Federal Aviation Administration

TM

U.S. Terminal Procedures Publication

Southwest (SW) Vol 2 of 4

Effective: 0901Z

09 JUL 2026

to: 0901Z

03 SEP 2026

Consult the Change Notice (CN) effective 06 AUG 2026 for revised Instrument Procedure Charts for this volume



Consult NOTAMs for latest information

Consult/Subscribe to FAA Safety Alerts and Charting Notices at:
http://www.faa.gov/air_traffic/flight_info/aeronav/safety_alerts/

Published from digital files compiled in accordance with Interagency Air Committee specifications and agreements approved by Department of Defense - Federal Aviation Administration

TERMINAL PROCEDURES TABLE OF CONTENTS

Inoperative Components or Visual Aids Table....A1
Explanation of Terms/Landing Minima Data....B1
General Information....C1
Abbreviations....D1
Legend___IAP Planview....E1
Legend___IAP Profile....F1
Legend___Standard Terminal Arrival Charts....G1
Legend___Departure Procedures Charts....G2
Legend___Airport Diagram/Sketch....H1
Legend___Approach Lighting Systems....I1
Supplemental Tables___Frequency Pairing....J1
Supplemental Tables___Rate of Climb Table....J2
Supplemental Tables___Rate of Descent Table....J3
Index of Terminal Charts and Minimums....K1
IFR Takeoff Minimums, (Obstacle) Departure Procedures, and
Diverse Vector Area (Radar Vectors)....L1
IFR Alternate Airport Minimums....M1
Radar Minimums....N1
Land and Hold-Short Operations (LAHSO)....O1
Hot Spots....P1
Standard Terminal Arrival Charts....Z1
Terminal Charts....Page 1

CHARTING ALERTS/NOTICES, INQUIRIES, OR TO OBTAIN DIGITAL PRODUCTS

For safety alerts, charting notices, and data product notices, please visit our website at:
https://www.faa.gov/air_traffic/flight_info/aeronav/safety_alerts/

For inquiries on FAA, Aeronautical Information Services charts, please submit a portal entry:
https://www.faa.gov/air_traffic/flight_info/aeronav/aero_data/Aeronautical_Inquiries/

For inquiries regarding military charts, please contact:
aerohelp@nga.mil

Request for the creation or revisions to Airport Diagrams should be in accordance with FAA Order 7910.4.

To obtain digital products, please visit our website at:
https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/

INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE
(For Civil Use Only)

Straight-in and Sidestep landing minimums published on instrument approach procedure charts are based on full operation of all components and visual aids (see exception below for ALSF 1 & 2) associated with the particular approach chart being used. Higher minimums are required with inoperative components or visual aids as indicated below. If more than one component is inoperative, each minimum is raised to the highest minimum required by any single component that is inoperative. ILS glideslope inoperative minimums are published on the instrument approach charts as localizer minimums. This table applies to approach categories A thru D and is to be used unless amended by notes on the approach chart. Such notes apply only to the particular approach category(ies) as stated. Category E inoperative notes will be specified when published on civil charts. The inoperative table does not apply to Circling minimums. See legend page for description of components indicated below.

Full Operation Exception: For ALSF 1 & 2 operated as SSALR, or when the sequenced flashing lights are inoperative, there is no effect on visibility for ILS lines of minima.

(1) ILS, PAR, LPV, GLS minima

Inoperative Component or Visual Aid	Increase Visibility
All ALS types (except ODALS)	¼ mile

(2) ILS, LPV, GLS with visibility minima of RVR 1800†/2000*/2200*

Inoperative Component or Visual Aid	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	To RVR 4000† To RVR 4500*
TDZL or RCLS	To RVR 2400#
RVR	To ½ mile

#For ILS, LPV, GLS procedures with a 200 foot HAT, RVR 1800 authorized with use of FD or AP or HUD to DA. For ILS procedures with a 200 foot HAT with a restriction on autopilot usage, RVR 1800 authorized with use of FD or HUD to DA.

(3) All Approach Types and all lines of minima other than (1) & (2) above

Inoperative Component or Visual Aid	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	½ mile
MALSF, MALS, SSALF, SSALS, SALSF, SALS	¼ mile

(4) Sidestep minima (CAT C-D)

Inoperative Component or Visual Aid to Sidestep Runway	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	½ mile

(5) All Approach Types, All lines of minima

Inoperative Component or Visual Aid	Increase Visibility
ODALS (CAT A-B)	¼ mile
ODALS (CAT C-D)	⅛ mile

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

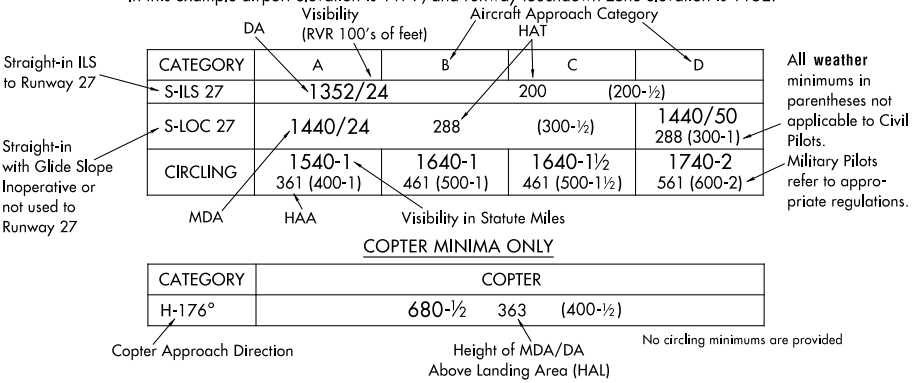
TERMS/LANDING MINIMA DATA

IFR LANDING MINIMA

The United States Standard for Terminal Instrument Procedures (TERPS) is the approved criteria for formulating instrument approach procedures. Landing minima are established for six aircraft approach categories (ABCDE and COPTER). In the absence of COPTER MINIMA, helicopters may use the CAT A minimums of other procedures.

LANDING MINIMA FORMAT

In this example airport elevation is 1179, and runway touchdown zone elevation is 1152.



COPTER MINIMA ONLY

CATEGORY	COPTER
H-176°	680-½ 363 (400-½)

Copter Approach Direction

Height of MDA/DA Above Landing Area (HAL)

No circling minimums are provided

NOTE: The W symbol indicates outages of the WAAS vertical guidance may occur daily at this location due to initial system limitations. WAAS NOTAMS for vertical outages are not provided for this approach. Use LNAV minima for flight planning at these locations, whether as a destination or alternate. For flight operations at these locations, when the WAAS avionics indicate that LNAV/VNAV or LPV service is available, then vertical guidance may be used to complete the approach using the displayed level of service. Should an outage occur during the procedure, reversion to LNAV minima may be required. As the WAAS coverage is expanded, the W will be removed.

RNAV minimums are dependent on navigation equipment capability, as stated in the applicable AFM, AFMS, or other FAA approved document. See AIM paragraph 5-4-5, AC 90-105 and AC 90-107 for detailed requirements for each line of minima.

COLD TEMPERATURE AIRPORTS

NOTE: A ❄-12°C symbol indicates a cold temperature altitude correction is required at this airport when reported temperature is at or below the published temperature. See the following Cold Temperature Error Table to make manual corrections. Advise ATC with altitude correction. Advising ATC with altitude corrections is not required in the final segment. See Aeronautical Information Manual (AIM), Chapter 7, for guidance and additional information. For a complete list, see the "Cold Temperature Airports" link under the Additional Resources heading at the bottom of the following page: http://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/dtpp/search/

COLD TEMPERATURE ERROR TABLE

HEIGHT ABOVE AIRPORT IN FEET

REPORTED TEMP °C	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000
+10	10	10	10	10	20	20	20	20	20	30	40	60	80	90
0	20	20	30	30	40	40	50	50	60	90	120	170	230	280
-10	20	30	40	50	60	70	80	90	100	150	200	290	390	490
-20	30	50	60	70	90	100	120	130	140	210	280	420	570	710
-30	40	60	80	100	120	140	150	170	190	280	380	570	760	950
-40	50	80	100	120	150	170	190	220	240	360	480	720	970	1210
-50	60	90	120	150	180	210	240	270	300	450	590	890	1190	1500

AIRCRAFT APPROACH CATEGORIES

Aircraft approach category indicates a grouping of aircraft based on a speed of VREF, if specified, or if VREF not specified, 1.3 VSO at the maximum certificated landing weight. VREF, VSO, and the maximum certificated landing weight are those values as established for the aircraft by the certification authority of the country of registry. Helicopters are Category A aircraft. An aircraft shall fit in only one category. When necessary to operate the aircraft at an airspeed in excess of the maximum airspeed of its certified aircraft approach category, pilots should use the applicable higher category minima. For additional options and to ensure the aircraft remains within protected airspace, consult the AIM. See following category limits:

MANEUVERING TABLE

Approach Category	A	B	C	D	E
Speed (Knots)	0-90	91-120	121-140	141-165	Abv 165

TERMS/LANDING MINIMA DATA

20142

SW-2, 09 JUL 2026 to 03 SEP 2026

TERMS/LANDING MINIMA DATA

CIRCLING APPROACH OBSTACLE PROTECTED AIRSPACE

The circling MDA provides vertical obstacle clearance during a circle-to-land maneuver. The circling MDA protected area extends from the threshold of each runway authorized for landing following a circle-to-land maneuver for a distance as shown in the table below. The resultant arcs are then connected tangentially to define the protected area.

CIRCLING APPROACH MANEUVERING AIRSPACE RADIUS

Circling MDA protected areas use the radius distance shown in the following table, expressed in nautical miles (NM), dependent on aircraft approach category, and the altitude of the circling MDA, which accounts for true airspeed increase with altitude.

Circling MDA in feet MSL	Approach Category and Circling Radius (NM)				
	CAT A	CAT B	CAT C	CAT D	CAT E
1000 or less	1.3	1.7	2.7	3.6	4.5
1001-3000	1.3	1.8	2.8	3.7	4.6
3001-5000	1.3	1.8	2.9	3.8	4.8
5001-7000	1.3	1.9	3.0	4.0	5.0
7001-9000	1.4	2.0	3.2	4.2	5.3
9001 and above	1.4	2.1	3.3	4.4	5.5

Users may ignore the presence of C symbols on charts which will be removed on a day-forward basis. All circling areas within this volume have been evaluated for the circling MDA protected area radius shown in the table above.

Comparable Values of RVR and Visibility

The following table may be used for converting RVR to ground or flight visibility. For RVR values that fall between listed values, use the next higher RVR value; do not interpolate. For example, when converting 4800 RVR, use 5000 RVR with the resultant visibility of 1 mile.

RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)
1200	1/4	2200	1/2	3200*	5/8	5000*	1
1600*	1/4	2400*	1/2	3500	5/8	5500	1
1800	1/2	2600	1/2	4000*	3/4	6000*	1 1/4
2000	1/2	3000	5/8	4500*	7/8		

*Values repeated from 14 CFR 91.175 and shall be used for takeoff or landing minima.

If a visibility adjustment is required for a procedure with an RVR value, the RVR value should first be converted to visibility using this table. The visibility should then be increased by the adjustment value, and then may be converted back to the highest RVR value associated with that visibility. For example, if a procedure with 2000 RVR requires a 1/8 mile adjustment, first convert 2000 RVR to 1/2 SM. Adding 1/8 SM results in 5/8 SM, which may then be converted to 3500 RVR.

RADAR MINIMA

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT HAA	CEIL-VIS
PAR	10	2.5°/42/1000	ABCDE	**195**/16	100	(100-1/4)				
	28	2.5°/48/1068	ABCDE	**187**/16	100	(100-1/4)				
ASR	10		ABC	**560**/40	463	(500-3/4)	DE	**560**/50	463	(500-1)
	28		AB	**600**/50	513	(600-1)	CDE	**600**/60	513	(600-1 1/4)
CIR	10		AB	**560-**1 1/4	463	(500-1 1/4)	CDE	**560-**1 1/2	463	(500-1 1/2)
	28		AB	**600-**1 1/4	503	(600-1 1/4)	CDE	**600-**1 1/2	503	(600-1 1/2)

Visibility (RVR 100's of feet)

Visibility in Statute Miles

All minimums in parentheses not applicable to Civil Pilots. Military Pilots refer to appropriate regulations.

Radar Minima:

1. Minima shown are the lowest permitted by established criteria. Pilots should consult applicable directives for their category of aircraft.
2. The circling MDA and weather minima to be used are those for the runway to which the final approach is flown- not the landing runway. In the above RADAR MINIMA example, a category C aircraft flying a radar approach to runway 10, circling to land on runway 28, must use an MDA of 560 feet with weather minima of 500-1½.

NOTE: Military RADAR MINIMA may be shown with communications symbology that indicates emergency frequency monitoring capability by the radar facility as follows: (E) VHF and UHF emergency frequencies monitored
(V) VHF emergency frequency (121.5) monitored
(U) UHF emergency frequency (243.0) monitored

Additionally, unmonitored frequencies which are available on request from the controlling agency may be annotated with an "x".

A Alternate Minimums not standard. Civil users refer to tabulation. USA/USN/USAF pilots refer to appropriate regulations.

A NA Alternate minimums are Not Authorized due to unmonitored facility or absence of weather reporting service.

T Airport is published in the Takeoff Minimums, (Obstacle) Departure Procedures, and Diverse Vector Area (Radar Vectors) tabulation.

TERMS/LANDING MINIMA DATA

25275

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

GENERAL INFORMATION

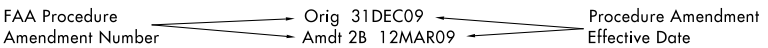
This publication is issued every 56 days and includes the following instrument flight procedures (IFPs): Standard Instrument Approach Procedures (SIAPs), Standard Instrument Departures (SIDs), Standard Terminal Arrivals (STARs), IFR Takeoff Minimums and (Obstacle) Departure Procedures (ODPs), Diverse Vector Areas (DVAs), IFR Alternate Minimums, and Radar Instrument Approach Minimums for use by civil and military aviation. The organization responsible for SIAPs, Radar Minimums, SIDs, STARs and graphic ODPs is identified in parentheses in the top margin of the procedure; e.g., (FAA), (FAA-O), (USA), (USAF), (USN). For Textual ODPs and DVAs the organization is identified in parentheses after the Julian Date. SIAPs and ODPs with the (FAA) and (FAA-O) designation are regulated under 14 CFR, part 97. IFPs with the (FAA-O) designation have been developed by a service provider authorized by the FAA. See 14 CFR, part 91.175 (a) and the AIM for further details on civil airport operations. See 14 CFR, part 91.175 (g) and the Special Notices section of the Chart Supplement for information on civil operations at military airports.

The FAA uses an internal numbering system on all charts in the TPP. This Approach and Landing (AL) number is located on the top center margin of the chart followed by the organization responsible for the procedure in parentheses, e.g., AL-18 (FAA), AL-11919 (FAA-O). Military procedures do not show AL number, but do show the appropriate authority for the procedure, e.g., (USAF).

CHART CURRENCY INFORMATION

Date of Latest Revision 09365

The Date of Latest Revision identifies the Julian date the chart was added or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest revision of any kind has been made to the chart.



The FAA Procedure Amendment Number represents the most current amendment of a given procedure. The Procedure Amendment Effective Date represents the AIRAC cycle date on which the procedure amendment was incorporated into the chart. Updates to the amendment number & effective date represent procedural/criteria revisions to the charted procedure, e.g., course, fix, altitude, minima, etc. On Departure Procedures and Standard Terminal Arrivals, procedural revisions to the current chart are indicated by an upnumber to the procedure title with the procedure amendment effective date following. On Radar Minima, Takeoff Minimums and (Obstacle) Departure Procedures and Diverse Vector Areas, the FAA Procedure Amendment Number, Procedure Effective Date, and the Julian Date of Last Revision will be shown on the same line, e.g., AMDT 2 10DEC15 (15344).

MISCELLANEOUS

★ Indicates a non-continuously operating facility, see Chart Supplement.

For Civil (FAA) and Military (DoD) SIAPs, "RADAR REQUIRED" in the planview or the pilot briefing strip of the chart indicates that ATC radar must be available to assist the pilot when transitioning from the en route environment. In the event ATC radar must be available for a specific portion(s) of the procedure, the portion(s) will be specified in the pilot briefing strip with the statement "RADAR required".

Distances are in nautical miles (except visibility in statute miles and Runway Visual Range in hundreds of feet). Runway dimensions are in feet. Elevations are in feet, Mean Sea Level (MSL). Ceilings are in feet above airport elevation. Radials/bearings/headings/courses are magnetic. Horizontal Datum: Unless otherwise noted on the chart, all coordinates are referenced to North American Datum 1983 (NAD 83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

Terrain is scaled within the neat lines (planview boundaries) and does not accurately underlie not-to-scale distance depictions or symbols.

SW-2, 09 JUL 2026 to 03 SEP 2026

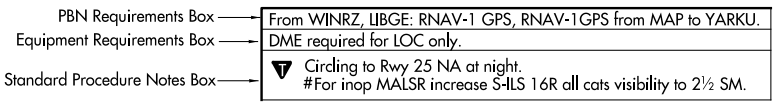
STANDARD TERMINAL ARRIVALS AND DEPARTURE PROCEDURES

The use of the associated codified STAR/DP and transition identifiers are requested of users when filing flight plans online. It must be noted that when filing a STAR/DP with a transition, the first three coded characters of the STAR and the last three coded characters of the DP are replaced by the transition code. Examples: ACTON SIX ARRIVAL, file (AQN.AQN6); ACTON SIX ARRIVAL, EDNAS TRANSITION, file (EDNAS.AQN6). FREEHOLD THREE DEPARTURE, file (FREH3.RBV), FREEHOLD THREE DEPARTURE, ELWOOD CITY TRANSITION, file (FREH3.EWC).

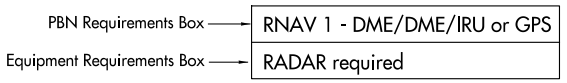
PROCEDURE PBN/EQUIPMENT REQUIREMENTS

Users will begin to see Performance-Based Navigation (PBN) Requirements and Equipment Requirements on Instrument Approach Procedures (IAPs), RNAV STARs and RNAV DPs prominently displayed in separate, standardized notes boxes. For procedures with PBN elements, the PBN box will contain the procedure's navigation specification(s); and, if required: specific sensors or infrastructure needed for the navigation solution; any additional or advanced functional requirements; the minimum Required Navigation Performance (RNP) value and any amplifying remarks. Items listed in this PBN box are REQUIRED for the procedure's PBN elements. The Equipment Requirements Box will list non-PBN requirements. On charts with both PBN elements and equipment requirements, the PBN requirements box will be listed first. The publication of these notes will continue incrementally until all charts have been amended to comply with the new standard.

IAP PBN/Equipment Requirements Notes Box



RNAV STAR and DP PBN/Equipment Requirements Notes Box



PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Reference the Chart Supplement for detailed information on pilot controlled lighting (PCL) systems.

Available FAA standard approach lighting systems are charted as a negative symbol to indicate pilot contolled lighting, e.g., (A1), (V)

Available airport lighting systems that are charted as notes, e.g. REIL, MIRL, are shown with a negative "(L)" symbol beside the name to indicate pilot controlled lighting.

To activate lights, use frequency indicated in the communications section of the chart with a (L)

KEY MIKE	FUNCTION
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

ABBREVIATIONS

26078

AAF	Army Air Field		CL	Centerline Lighting System
AAUP	Attention All Users Page		CLNC DEL	Clearance Delivery
ADF	Automatic Direction Finder		CNF	Computer Navigation Fix
ADIZ	Air Defense Identification Zone		CPDLC	Controller Pilot Data Link Communications
AFAUX	Air Force Auxiliary		CTAF	Common Traffic Advisory Frequency
AFB	Air Force Base		CW	Clockwise
AFHP	Air Force Heliport		D-ATIS	Digital-Automatic Terminal Information Service
AFIS	Automatic Flight Information Service		DA	Decision Altitude
AFRC	Armed Forces Reserve Center/Air Force Reserve Command		DEP	Departure
AGL	Above Ground Level		DEP CON	Departure Control
AHP	Army Heliport		DER	Departure End of Runway
ALF	Auxiliary Landing Field		DH	Decision Height
ALS	Approach Light System		DME	Distance Measuring Equipment
ALSF	Approach Light System with Sequencec Flashing Lights		DP	Departure Procedure
ANGB	Air National Guard Base		DTHR	Displaced Runway Threshold
ANGS	Air National Guard Station		DVA	Diverse Vector Area
Ant	Antenna		ELEV	Elevation
AOB	At or Below		EMAS	Engineered Material Arresting System
AP	Autopilot System		EXEC	Executive
APCH	Approach		FAF	Final Approach Fix
APP CON	Approach Control		FD	Flight Director System
AR	Authorization Required		FL	Flight Level
ARB	Air Reserve Base		FLD	Field
ARPT	Airport		FM	Fan Marker
ARR	Arrival		FMS	Flight Management System
AS	Air Station		GBAS	Ground Based Augmentation System
ASOS	Automated Surface Observing System		GCA	Ground Control Approach
ASR	Airport Surveillance RADAR		GCO	Ground Communication Outlet
ASSC	Airport Surface Surveillance Systems		GLS	Ground Based Augmentation System Landing System
ATC	Air Traffic Control		GP	Glidepath
ATCT	Airport Traffic Control Tower		GPS	Global Positioning System
ATIS	Automatic Terminal Information Service		GS	Glide Slope
AUNICOM	Automated UNICOM		HAA	Height Above Airport
AWOS	Automated Weather Observing System		HAL	Height Above Landing
Baro-VNAV	Barometric Vertical Navigation		HAT	Height Above Touchdown
BC	Back Course		HATh	Height Above Threshold
brg	Bearing		HCH	Heliport Crossing Height
CAPT	Captain		hdg	Heading
CAT	Category		HIRL	High Intensity Runway Lights
CCW	Counterclockwise		HUD	Heads-up Display
CDI	Course Deviation Indicator		IAF	Initial Approach Fix
CGAS	Coast Guard Air Station		IAP	Instrument Approach Procedure
Chan	Channel		ICAO	International Civil Aviation Organization
CIR	Circling		IF	Intermediate Fix

ABBREVIATIONS

26078

SW-2, 09 JUL 2026 to 03 SEP 2026

ABBREVIATIONS

26078

IFR	Instrument Flight Rules		MSL	Mean Sea Level
ILS	Instrument Landing System		MSPEC	Management Specification
IM	Inner Marker		MUNI	Municipal
INC	Incorporated		N/A	Not Applicable
Inop	Inoperative		NA	Not Authorized
INT	Intersection		NAAS	Naval Auxiliary Air Station
INTCNTL	Intercontinental		NAF	Naval Air Facility
INTL	International		NALF	Naval Auxiliary Landing Field
JNGB	Joint National Guard Base		NAS	Naval Air Station
JRB	Joint Reserve Base		NDB	Nondirectional Radio Beacon
K	Knots		NM	Nautical Mile
KIAS	Knots Indicated Airspeed		NOLF	Naval Outlying Field
LAAS	Local Area Augmentation System		NoPT	No Procedure Turn
LDA	Localizer Type Directional Aid		NOTAM	Notice to Airmen
Ldg	Landing		NS	Naval Station
LIRL	Low Intensity Runway Lights		NTL	National
LNAV	Lateral Navigation		ODALS	Omnidirectional Approach Lighting System
LOA	Letter of Agreement/Authorization		ODP	Obstacle Departure Procedures
LOC	Localizer		OM	Outer Marker
LOM	Locator Outer Marker		OPSPEC	Operations Specification
LP	Localizer Performance		PAR	Precision Approach Radar
LPV	Localizer Performance with Vertical Guidance		PDC	Pre-Departure Clearance
LR	Lead Radial		PRM	Precision Runway Monitor
LRRS	Long Range RADAR Station		Pvt	Private
MAA	Maximum Authorized Altitude		R	Radial
MALS	Medium Intensity Approach Lighting System		RA	Radio Altimeter setting height
MALSF	Medium Approach Lighting System with Sequenced Flashers		RAIL	Runway Alignment Indicator Lights
MALSR	Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights		RCLS	Runway Centerline Light System
MAP	Missed Approach Point		REIL	Runway End Identifier Lights
MCAF	Marine Corps Air Facility		RF	Radius to Fix
MCALF	Marine Corps Auxiliary Landing Field		RGNL	Regional
MCAS	Marine Corps Air Station		RLLS	Runway Lead-in Light System
MCB	Marine Corps Base		RNAV	Area Navigation
MCOLF	Marine Corps Outlying Field		RNP	Required Navigation Performance
MDA	Minimum Descent Altitude		RPI	Runway Point of Interception
MEA	Minimum Enroute Altitude		RVR	Runway Visual Range
MEML	Memorial		RWY	Runway
METRO	Metropolitan		S	Straight-in
MIRL	Medium Intensity Runway Lights		SALS	Simplified Short Approach Lighting System
MM	Middle Marker		SALSF	Short Approach Lighting System with Sequenced Flashing Lights
MOCA	Minimum Obstruction Clearance Altitude		SDF	Simplified Directional Facility
MRA	Minimum Reception Altitude		SFB	Space Force Base

ABBREVIATIONS

26078

SW-2, 09 JUL 2026 to 03 SEP 2026

ABBREVIATIONS

26078

SID	Standard Instrument Departure
SM	Statute Mile
SR-SS	Sunrise-Sunset
SSALF	Simplified Short Approach Lighting System with Sequenced Flashing Lights
SSALR	Simplified Short Approach Lighting System with Runway Alignment Indicator Lights
SSALS	Simplified Short Approach Lighting System
ST	Saint
STE	Sainte
STAR	Standard Terminal Arrival
TAA	Terminal Arrival Area
TACAN	Tactical Air Navigation
TCH	Threshold Crossing Height
TDZ	Touchdown Zone
TDZE	Touchdown Zone Elevation
TDZ/CL	Touchdown Zone and Runway Centerline Lighting
TDZL/RCLS	Touchdown Zone Lights and Runway Centerline Lighting Systems
TDZL	Touchdown Zone Lights
THR	Threshold
TODA	Takeoff Distance Available
TORA	Takeoff Run Available
tr	Track
TRML	Terminal
TWR	Tower
UNICOM	Universal Communications Station
USA	United States Army
USAF	United States Air Force
USCG	United States Coast Guard
USMC	United States Marine Corps
USN	United States Navy
USSF	United States Space Force
VASI	Visual Approach Slope Indicator
VCOA	Visual Climb Over Airport
VDA	Vertical Descent Angle
VDP	Visual Descent Point
VFR	Visual Flight Rules
VGF	Visual Guidance Fix
VGSI	Visual Glide Slope Indicator
VNAV	Vertical Navigation
VOR	Very High Frequency Omni-Directional Range
VORTAC	Very High Frequency Omni-Directional Range/Tactical Air Navigation
WAAS	Wide Area Augmentation System
WP/WPT	Waypoint

ABBREVIATIONS

26078

SW-2, 09 JUL 2026 to 03 SEP 2026

PLANVIEW SYMBOLS

ROUTES

Procedure Track

Feeder Route

Missed Approach

Visual Flight Path

165° / 345° — Procedure Turn (Type degree and point of turn optional)

Minimum Route Altitude → 3100 NoPT to LOM

045°

Mileage → (14.2)

HOLDING PATTERNS

Hold-in-lieu of Procedure Turn

HOLD 10000 / 8000 — 090° (IAS) 270° — 4 NM

HOLD 10000 / 8000 — 090° 1 min 270°

Missed Approach — 090° / 270°

Arrival — HOLD 8000 — 090° / 270°

Holding pattern with maximum restricted airspeed:
(175K) applies to all altitudes.
(210K) applies to altitudes above 6000′ to and including 14000′.
Arrival Holding Pattern altitude restrictions will be indicated when they deviate from the adjacent leg.

Timing or distance limits for Hold-in-lieu of Procedure Turn Holding Patterns will be shown.
DME fixes may be shown.

FIXES/ATC REPORTING REQUIREMENTS

Reporting Point

Waypoint

MAP WP (Flyby)

MAP WP (Flyover)

GLGHR INT — Intersection

MYLES I-LVF 14.9 — (Distance From Facility)

DME

Flyover Point

x (CFTSP) — Computer Navigation Fix (CNF)-No ATC Function ("x" omitted when it is a MAP)

R-198 → Radial line and value

LR-198 → Lead Radial

LB-198 → Lead Bearing

ALTITUDES

5500 Mandatory Altitude

2500 Minimum Altitude

4300 Maximum Altitude

3000 Recommended Altitude

5000 Mandatory Block

3000 Altitude

INDICATED AIRSPEED

175K	120K	250K	180K
Mandatory Airspeed	Minimum Airspeed	Maximum Airspeed	Recommended Airspeed

RADIO AIDS TO NAVIGATION

110.1 Underline indicates No Voice transmitted on this frequency

VOR — VORTAC — TACAN

VOR/DME — DME

NDB — NDB/DME

LOM (Compass locator at Outer Marker)

Marker Beacon

Marker beacons that are not specifically part of the procedure.

Localizer Front Course (LOC/LDA)
Right side shading- Front course

Localizer Back Course
Left side shading- Back Course

SDF Course

LOC/LDA/SDF Transmitter — LOC/DME

(shown when installation is offset from its normal postion off the end of the runway.)

Primary NAVAID

LIMA
114.5 LIM
Chan 92

Secondary NAVAID

LOM
AKRON
362 AK

TACAN or DME NAVAID

SCOTT
Chan 59
SKE
(112.2)

VHF Paired Frequency

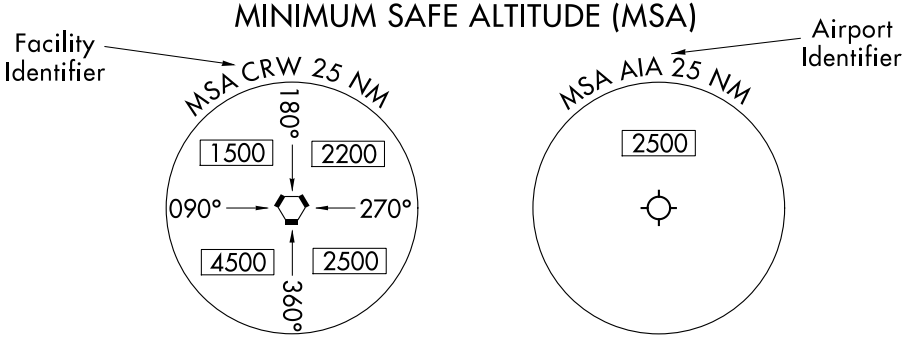
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

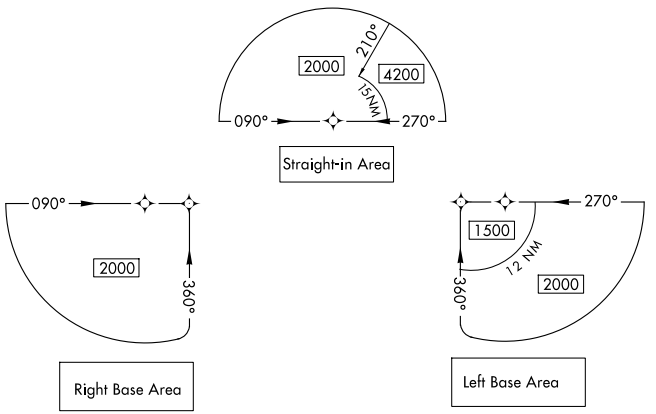
PLANVIEW SYMBOLS

MINIMUM SAFE ALTITUDE (MSA)



(arrows on distance circle identify sectors)

TERMINAL ARRIVAL AREA (TAA)



MISCELLANEOUS

VOR Changeover Point

RWY 15 S12° 00.52′ W77° 06.91′ End of Rwy Coordinates (DoD only)

Distance not to scale

International Boundary

Air Defense Identification Zone

SPECIAL USE AIRSPACE

R-352

R-Restricted W-Warning
P-Prohibited A-Alert
MOA-Military Operations Area

AIRPORTS

Primary and Secondary (named in planview)

Civil

Seaplane Base

Heliport

Joint (Civil-Military)

OBSTACLES

- Spot Elevation
- Highest Spot Elevation
- Obstacle
- Group of Obstacles
- Highest Obstacle
- ± Doubtful accuracy

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

24361

PROFILE VIEW

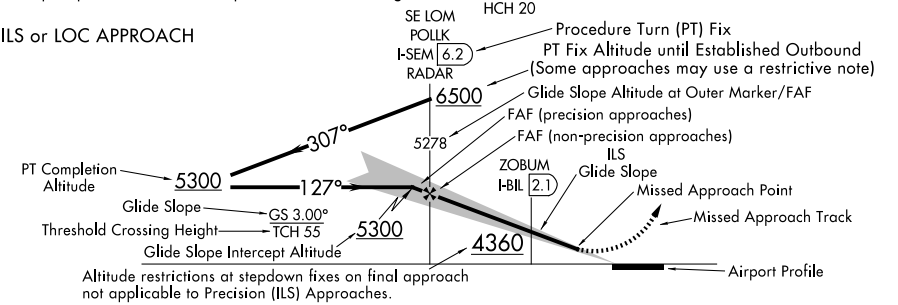
Three different methods are used to depict either electronic or vertical guidance: "GS", "GP", or "VDA".

1. "GS" indicates that an Instrument Landing System (ILS) electronic glide slope (a ground antenna) provides vertical guidance. The profile section of ILS procedures depict a GS angle and TCH in the following format: GS 3.00°. TCH 55

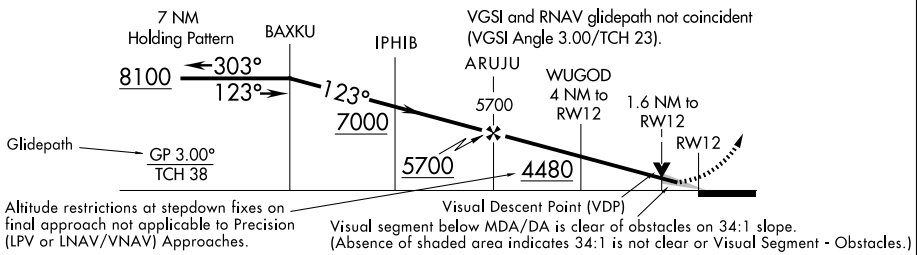
2. "GP" on GLS and RNAV procedures indicates that either electronic vertical guidance (via Wide Area Augmentation System - WAAS or Ground Based Augmentation System - GBAS) or barometric vertical guidance is provided. GLS and RNAV procedures with a published decision altitude (DA/H) depict a GP angle and TCH in the following format: GP 3.00°. TCH 50

3. An advisory vertical descent angle (VDA) is provided on non-vertically guided conventional procedures and RNAV procedures with only a minimum descent altitude (MDA) to assist in preventing controlled flight into terrain. On Civil (FAA) procedures, this information is placed above or below the procedure track following the fix it is based on. Absence of a VDA or a note that the VDA is not authorized indicates that the prescribed obstacle clearance surface is not clear and the VDA must not be used below MDA. VDA is depicted in the following format: 3.00°. TCH 55
On Copter procedures this is depicted in the following format: 7.30°. HCH 20

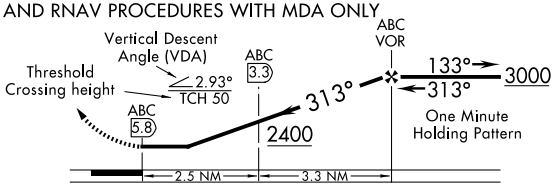
ILS or LOC APPROACH



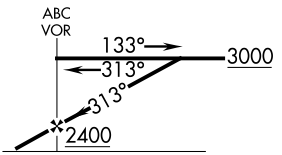
RNAV and GLS PROCEDURES WITH VERTICAL GUIDANCE



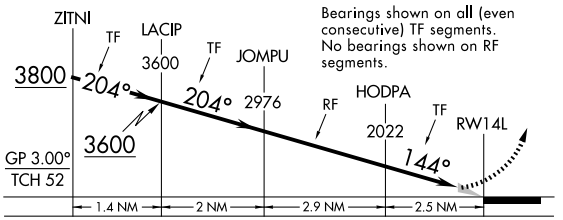
NON-VERTICALLY GUIDED CONVENTIONAL PROCEDURES AND RNAV PROCEDURES WITH MDA ONLY



DESCENT FROM HOLDING PATTERN



RNP APPROACH WITH TF AND RF SEGMENTS



ALTITUDES

5500	Mandatory Altitude	3000	Recommended Altitude
2500	Minimum Altitude	5000 / 3000	Mandatory Block Altitude
4300	Maximum Altitude		

PROFILE SYMBOLS

2400 — Glide Slope/Glidepath Intercept Altitude and final approach fix for vertically guided approach procedures.

▼ Visual Descent Point (VDP)

- - - ▶ Visual Flight Path

Note: Facilities and waypoints are depicted as a solid vertical line while fixes and intersections are depicted as a dashed vertical line.

LEGEND

24361

SW-2, 09 JUL 2026 to 03 SEP 2026

LEGEND

STANDARD TERMINAL ARRIVAL (STAR) CHARTS

23334

RADIO AIDS TO NAVIGATION

Compulsory:

VOR · VORTAC · DME · NDB/DME
VOR/DME · TACAN · NDB

Non-Compulsory:

VOR · VORTAC · DME · NDB/DME
VOR/DME · TACAN · NDB

LOM (Compass locator at outer marker)

Marker Beacon

Localizer Front Course

BACK COURSE

Localizer Back Course (Shading on left)

(T) indicates frequency protection range

ORLANDO
112.25 (T) ORL
Chan 59(Y)

Underline indicates no voice transmitted on this frequency

TACAN or DME NAVAID Box

SCOTT
Chan 59
SKE
(112.2)

VHF Paired Frequency

(Y) TACAN must be placed in "Y" mode to receive distance information

FIXES/ATC REPORTING REQUIREMENTS

Unnamed DME fix

▲ Reporting Point (Compulsory)

△ Reporting Point (Non-Compulsory)

Obvious DME (DME mileage matches route mileage)

75 DME Mileage (when not obvious)

Waypoint (Compulsory)

Waypoint (Non-Compulsory)

Flyover Point

x
(CFTSP) Computer Navigation Fix (CNF) - No ATC Function

AIRPORTS

Civil · Military · Joint (Civil-Military)

Airports not served by the procedure shown in screened color

Civil · Military · Joint (Civil-Military)

ROUTES

MAA FL200 Maximum Authorized Altitude
4500 MEA-Minimum Enroute Altitude
*3500 MOCA-Minimum Obstruction Clearance Altitude
270° Arrival Route
(65) Mileage between Radio Aids, Reporting Points, and Route Breaks

Transition Route

R-275 Radial line and value

Lost Communications Track

V12 J80 Airway/Jet Route Identification

(IAS) Holding Pattern

Lost Comm Holding Pattern

Holding pattern with maximum restricted airspeed
(175K) applies to all altitudes
(210K) applies to altitudes above 6000' to and including 14000'

SPECIAL USE AIRSPACE

R-352

R-Restricted W-Warning
P-Prohibited A-Alert
MOA-Military Operations Area

ALTITUDES

5500 Mandatory Altitude (Cross at)

2300 Minimum Altitude (Cross at or above)

4800 Maximum Altitude (Cross at or below)

15000
12000
Block Altitude

Altitude change at other than Radio Aids to Navigation

INDICATED AIRSPEED

175K Mandatory Airspeed

120K Minimum Airspeed

250K Maximum Airspeed

MISCELLANEOUS

Changeover Point

Air Defense Identification Zone

N
Indicates True North is not aligned to the top of the page

Ldg KLAS and KHND
Ldg Rwys 16L/C/R
Terminus identifier

23334

LEGEND

SW-2, 09 JUL 2026 to 03 SEP 2026

LEGEND

DEPARTURE PROCEDURE (DP) CHARTS

26190

RADIO AIDS TO NAVIGATION

Compulsory:

VOR · VORTAC · DME · NDB/DME · VOR/DME · TACAN · NDB

Non-Compulsory:

VOR · VORTAC · DME · NDB/DME · VOR/DME · TACAN · NDB

LOC · LOC/DME (shown when installation is offset from its normal position off the end of the runway.)

LOM (Compass locator at outer marker)

Marker Beacon

Localizer Front Course

BACK COURSE

Localizer Back Course (Shading on left)

(T) indicates frequency protection range

ORLANDO
112.25 (T) ORL
Chan 59(Y)

Underline indicates no voice transmitted on this frequency

(Y) TACAN must be placed in "Y" mode to receive distance information

TACAN or DME NAVAID Box

SCOTT
Chan 59
SKE
(112.2)

VHF Paired Frequency

FIXES/ATC REPORTING REQUIREMENTS

Unnamed DME fix

▲ Reporting Point (Compulsory)

△ Reporting Point (Non-Compulsory)

Obvious DME (DME mileage matches route mileage)

75 DME Mileage (when not obvious)

Waypoint (Compulsory)

Waypoint (Non-Compulsory)

Flyover Point

x (CFTSP) Computer Navigation Fix (CNF) - No ATC Function

MISCELLANEOUS

Changeover Point

Distance not to scale

International Boundary

Frequency Sectorization Boundary

Air Defense Identification Zone

Takeoff Minimums and (Obstacle) Departure Procedures entry published.

ROUTES

4500 MEA-Minimum Enroute Altitude

*3500 MOCA-Minimum Obstruction Clearance Altitude

270° Departure Route

(65) Mileage between Radio Aids, Reporting Points, and Route Breaks

Transition Route

R-275 Radial line and value

Lost Communications Track

Visual Flight Path

V12 J80 Airway/Jet Route Identification

(IAS) Holding Pattern

Lost Comm Holding Pattern

Holding pattern with maximum restricted airspeed (175K) applies to all altitudes
(210K) applies to altitudes above 6000' to and including 14000'

SPECIAL USE AIRSPACE

R-352

R-Restricted W-Warning
P-Prohibited A-Alert
MOA-Military Operations Area

ALTITUDES

5500 Mandatory Altitude (Cross at)

2300 Minimum Altitude (Cross at or above)

4800 Maximum Altitude (Cross at or below)

15000 / 12000 Block Altitude

TOP ALTITUDE: 5000 Top altitude restriction

INDICATED AIRSPEED

175K Mandatory Airspeed

120K Minimum Airspeed

250K Maximum Airspeed

AIRPORTS

Heliport

Civil · Military · Joint (Civil-Military)

MINIMUM SAFE ALTITUDE (MSA)

Facility Identifier

MSA CRW 25 NM
180°
4500 4100
090° 270°
5300 4700
360°

Airport Identifier

MSA AIA 25 NM
2500

(arrows on distance circle identify sectors)

26190

LEGEND

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

Hard Surface | Other Than Hard Surface | Taxiways, Parking Areas | Stopways, Overruns, Blast Pads | Metal Surface

Closed Runway | Closed Surface | Non-Movement | Under Construction | Water Runway

ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.

uni-directional | bi-directional | Jet Barrier

ARRESTING SYSTEM [ ] (EMAS)

REFERENCE FEATURES

Displaced Threshold.....
Hot Spot .....
Runway Holding Position Markings.....
Buildings.....
Self-Serve Fuel ##.....
Tanks.....
Obstructions.....
Airport Beacon #.....
Runway Radar Reflectors.....
Bridges.....
Control Tower #..... TWR

	Unlit	Lit
Wind Cone.....		
Landing Tee.....		
Tetrahedron.....		

When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

See appropriate Chart Supplement for information.

Runway Weight Bearing Capacity or Pavement Classification Number (PCN)/Pavement Classification Rating (PCR) is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCR 560 R/B/W/T; S-75, D-185, 2D-325, 2D/2D2-1120

Helicopter Alighting Areas

Negative Symbols used to identify Copter Procedures

landing point.....

NOTE:
Landmark features depicted on Copter Approach insets and sketches are provided for visual reference only.

Runway TDZ elevation.....TDZE 123

Runway Slope..... ← 0.3% Down.....0.8% UP →
(shown when rounded runway slope is ≥ 0.3%)

NOTE:
Runway Slope measured to midpoint on runways 8000 feet or longer.

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

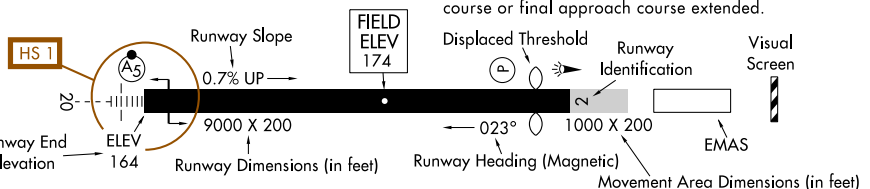
Positional accuracy within ± 600 feet unless otherwise noted on the chart.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A D symbol is shown to indicate runway declared distance information available, see appropriate Chart Supplement for distance information.

NOTE:
All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in DoD FLIP. (Foreign Only)

The airport sketch box includes the final approach course or final approach course extended.



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)
APPROACH LIGHTING SYSTEM - UNITED STATES

25331

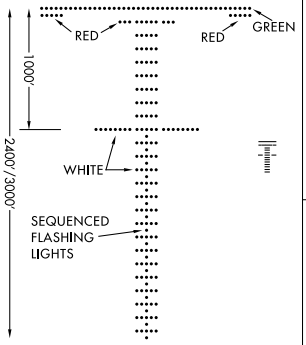
Approach lighting and visual glide slope systems are indicated on the airport sketch by an identifier, e.g., (A2), (V), etc.

A dot " ● " portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., (A1). Negative symbology, e.g., (A1), (V) indicates Pilot Controlled Lighting (PCL).

CATEGORY I APPROACH LIGHTING SYSTEM

(A1)

ALSF-1

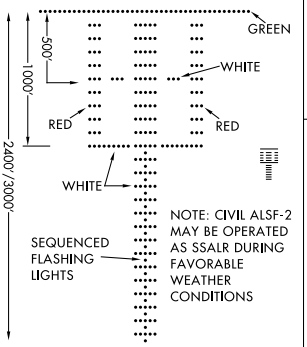


(High Intensity)
LENGTH 2400/3000 FEET

CATEGORY II APPROACH LIGHTING SYSTEM

(A)

ALSF-2

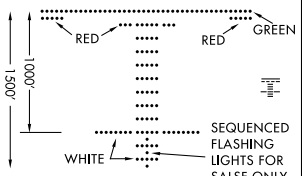


(High Intensity)
LENGTH 2400/3000 FEET

SHORT APPROACH LIGHTING SYSTEM

(A2) (A2)

SALS/SALSF

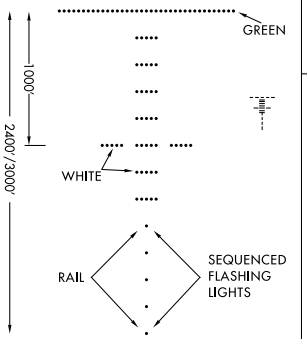


(High Intensity)
LENGTH 1500 FEET

SIMPLIFIED SHORT APPROACH LIGHTING SYSTEM with Runway Alignment Indicator Lights

(A3)

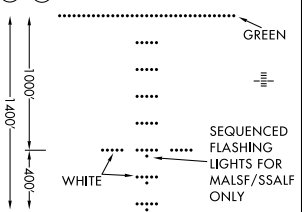
SSALR



(High Intensity)
LENGTH 2400/3000 FEET

MEDIUM INTENSITY (**MALS** and **MALSF**) OR SIMPLIFIED SHORT (**SSALS** and **SSALF**) APPROACH LIGHTING SYSTEMS

(A4) (A4)

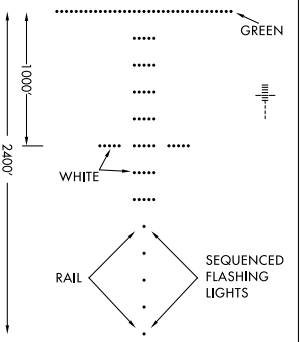


LENGTH 1400 FEET

MEDIUM INTENSITY APPROACH LIGHTING SYSTEM with Runway Alignment Indicator Lights

(A5)

MALSR

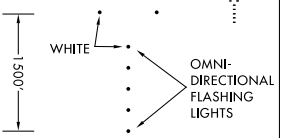


LENGTH 2400 FEET

OMNIDIRECTIONAL APPROACH LIGHTING SYSTEM

(A)

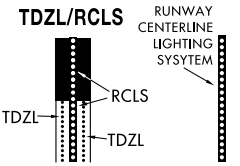
ODALS



LENGTH 1500 FEET

RUNWAY TOUCHDOWN ZONE LIGHTS AND RUNWAY CENTERLINE LIGHTING SYSTEMS

TDZL/RCLS



AVAILABILITY of TDZL/RCLS will be shown by NOTE in SKETCH, e.g. "TDZL/RCLS Rwy 15".

LEGEND

25331

SW-2, 09 JUL 2026 to 03 SEP 2026

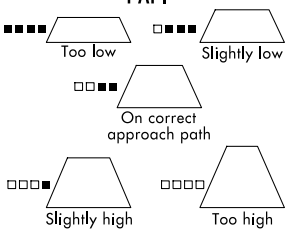
LEGEND

Approach lighting and visual glide slope systems are indicated on the airport sketch by an identifier, (A2), (V), etc.

A dot " ● " portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., (A1). Negative symbology, e.g., (A1), (V) indicates Pilot Controlled Lighting (PCL).

(P) PRECISION APPROACH PATH INDICATOR

PAPI



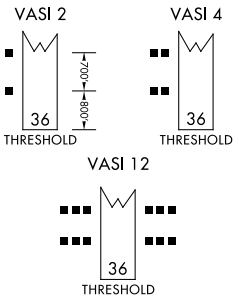
Legend: □ White ■ Red

(V) VISUAL APPROACH SLOPE INDICATOR

VASI

VISUAL APPROACH SLOPE INDICATOR WITH STANDARD THRESHOLD CLEARANCE PROVIDED.

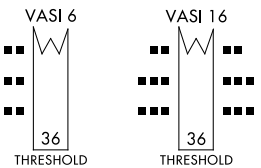
ALL LIGHTS WHITE — — TOO HIGH
FAR LIGHTS RED, NEAR LIGHTS WHITE — ON GLIDE SLOPE
ALL LIGHTS RED — — TOO LOW



(V3) VISUAL APPROACH SLOPE INDICATOR

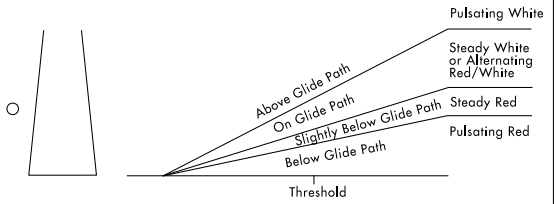
VASI

3-BAR, 6 OR 16 BOX, VISUAL APPROACH SLOPE INDICATOR THAT PROVIDES 2 GLIDE ANGLES AND 2 THRESHOLD CROSSING HEIGHTS.



(V2) PULSATING VISUAL APPROACH SLOPE INDICATOR

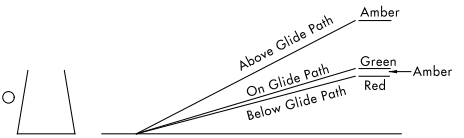
PVASI



CAUTION: When viewing the pulsating visual approach slope indicators in the pulsating white or pulsating red sectors, it is possible to mistake this lighting aid for another aircraft or a ground vehicle. Pilots should exercise caution when using this type of system.

(V4) TRI-COLOR VISUAL APPROACH SLOPE INDICATOR

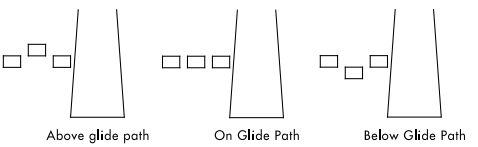
TRCV



CAUTION: When the aircraft descends from green to red, the pilot may see a dark amber color during the transition from green to red.

(V5) ALIGNMENT OF ELEMENTS SYSTEMS

APAP



Painted panels which may be lighted at night. To use the system the pilot positions the aircraft so the elements are in alignment.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SUPPLEMENTAL TABLES 25107

FREQUENCY PAIRING TABLE

TACAN CHANNEL	VHF FREQUENCY	TACAN CHANNEL	VHF FREQUENCY	TACAN CHANNEL	VHF FREQUENCY
17Y	108.05	40X	110.30	88Y	114.15
18X	108.10	40Y	110.35	89Y	114.25
18Y	108.15	41Y	110.45	90Y	114.35
19Y	108.25	42X	110.50	91Y	114.45
20X	108.30	42Y	110.55	92Y	114.55
20Y	108.35	43Y	110.65	93Y	114.65
21Y	108.45	44X	110.70	94Y	114.75
22X	108.50	44Y	110.75	95Y	114.85
22Y	108.55	45Y	110.85	96Y	114.95
23Y	108.65	46X	110.90	97Y	115.05
24X	108.70	46Y	110.95	98Y	115.15
24Y	108.75	47Y	111.05	99Y	115.25
25Y	108.85	48X	111.10	100Y	115.35
26X	108.90	48Y	111.15	101Y	115.45
26Y	108.95	49Y	111.25	102Y	115.55
27Y	109.05	50X	111.30	103Y	115.65
28X	109.10	50Y	111.35	104Y	115.75
28Y	109.15	51Y	111.45	105Y	115.85
29Y	109.25	52X	111.50	106Y	115.95
30X	109.30	52Y	111.55	107Y	116.05
30Y	109.35	53Y	111.65	108Y	116.15
31Y	109.45	54X	111.70	109Y	116.25
32X	109.50	54Y	111.75	110Y	116.35
32Y	109.55	55Y	111.85	111Y	116.45
33Y	109.65	56X	111.90	112Y	116.55
34X	109.70	56Y	111.95	113Y	116.65
34Y	109.75	80Y	113.35	114Y	116.75
35Y	109.85	81Y	113.45	115Y	116.85
36X	109.90	82Y	113.55	116Y	116.95
36Y	109.95	83Y	113.65	117Y	117.05
37Y	110.05	84Y	113.75	118Y	117.15
38X	110.10	85Y	113.85	119Y	117.25
38Y	110.15	86Y	113.95		
39Y	110.25	87Y	114.05		

See the Chart Supplement for a complete listing.

SUPPLEMENTAL TABLES 25107

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

SUPPLEMENTAL TABLES

25107

INSTRUMENT TAKEOFF AND APPROACH PROCEDURE CHARTS
RATE OF CLIMB TABLE
(ft per min)

The rate of climb table is provided for use in planning and executing climbs with a known or approximate ground speed. Rates of climb in ft per min are monitored with a vertical speed indicator (VSI). The use of a climb rate should not be used if it will exceed the aircraft's operational limitations.

ft/NM	%	GROUND SPEED (knots)										
		60	90	120	150	180	210	240	270	300	330	360
152	2.50	152	228	304	380	456	532	608	684	760	836	912
200	3.29	200	300	400	500	600	700	800	900	1000	1100	1200
210	3.46	210	315	420	525	630	735	840	945	1050	1155	1260
220	3.62	220	330	440	550	660	770	880	990	1100	1210	1320
230	3.79	230	345	460	575	690	805	920	1035	1150	1265	1380
240	3.95	240	360	480	600	720	840	960	1080	1200	1320	1440
250	4.11	250	375	500	625	750	875	1000	1125	1250	1375	1500
260	4.28	260	390	520	650	780	910	1040	1170	1300	1430	1560
270	4.44	270	405	540	675	810	945	1080	1215	1350	1485	1620
280	4.61	280	420	560	700	840	980	1120	1260	1400	1540	1680
290	4.77	290	435	580	725	870	1015	1160	1305	1450	1595	1740
300	4.94	300	450	600	750	900	1050	1200	1350	1500	1650	1800
310	5.10	310	465	620	775	930	1085	1240	1395	1550	1705	1860
320	5.27	320	480	640	800	960	1120	1280	1440	1600	1760	1920
330	5.43	330	495	660	825	990	1155	1320	1485	1650	1815	1980
340	5.60	340	510	680	850	1020	1190	1360	1530	1700	1870	2040
350	5.76	350	525	700	875	1050	1225	1400	1575	1750	1925	2100
360	5.92	360	540	720	900	1080	1260	1440	1620	1800	1980	2160
370	6.09	370	555	740	925	1110	1295	1480	1665	1850	2035	2220
380	6.25	380	570	760	950	1140	1330	1520	1710	1900	2090	2280
390	6.42	390	585	780	975	1170	1365	1560	1755	1950	2145	2340
400	6.58	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400
450	7.41	450	675	900	1125	1350	1575	1800	2025	2250	2475	2700
500	8.23	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
550	9.05	550	825	1100	1375	1650	1925	2200	2475	2750	3025	3300

25107

SUPPLEMENTAL TABLES

SW-2, 09 JUL 2026 to 03 SEP 2026

SUPPLEMENTAL TABLES

25107

INSTRUMENT TAKEOFF AND APPROACH PROCEDURE CHARTS
RATE OF DESCENT TABLE
(ft per min)

The rate of descent table is provided for use in planning and executing descents with a known or approximate ground speed. The descent chart may also be used to calculate a constant rate of descent in the final segment on a non-precision approach. This rate of descent is advisory only. Rates of descent in ft per min are monitored with a vertical speed indicator (VSI). The use of a descent rate should not be used if it will exceed the aircraft's operational limitations.

ANGLE	ft/NM	GROUND SPEED (knots)										
		60	90	120	150	180	210	240	270	300	330	360
2.0	212	212	318	424	530	637	743	849	955	1061	1167	1273
2.5	265	265	398	531	663	796	929	1061	1194	1326	1459	1592
2.6	276	276	414	552	690	828	966	1104	1242	1380	1518	1655
2.7	287	287	430	573	716	860	1003	1146	1289	1433	1576	1719
2.8	297	297	446	594	743	892	1040	1189	1337	1486	1634	1783
2.9	308	308	462	616	770	923	1077	1231	1385	1539	1693	1847
3.0	318	318	478	637	796	955	1115	1274	1433	1592	1751	1911
3.1	329	329	494	658	823	987	1152	1316	1481	1645	1810	1974
3.2	340	340	510	679	849	1019	1189	1359	1529	1699	1868	2038
3.3	350	350	526	701	876	1051	1226	1401	1577	1752	1927	2102
3.4	361	361	541	722	902	1083	1263	1444	1624	1805	1985	2166
3.5	372	372	557	743	929	1115	1301	1487	1672	1858	2044	2230
3.6	382	382	573	765	956	1147	1338	1529	1720	1911	2103	2294
3.7	393	393	589	786	982	1179	1375	1572	1768	1965	2161	2358
3.8	404	404	605	807	1009	1211	1413	1614	1816	2018	2220	2421
3.9	414	414	621	828	1036	1243	1450	1657	1864	2071	2278	2485
4.0	425	425	637	850	1062	1275	1487	1700	1912	2124	2337	2549
4.5	478	478	717	956	1196	1435	1674	1913	2152	2391	2630	2869
5.0	532	532	797	1063	1329	1595	1861	2126	2392	2658	2924	3190
5.5	585	585	878	1170	1463	1755	2048	2340	2633	2925	3218	3510
6.0	639	639	958	1277	1597	1916	2235	2555	2874	3193	3512	3832
6.5	692	692	1038	1385	1731	2077	2423	2769	3115	3461	3808	4154
7.0	746	746	1119	1492	1865	2238	2611	2984	3357	3730	4103	4476
7.5	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
8.0	854	854	1281	1708	2135	2562	2989	3416	3843	4270	4697	5124
8.5	908	908	1362	1816	2270	2724	3178	3632	4086	4540	4994	5448
9.0	962	962	1444	1925	2406	2887	3368	3849	4331	4812	5293	5774
9.5	1017	1017	1525	2034	2542	3050	3559	4067	4576	5084	5592	6101
10.0	1071	1071	1607	2143	2678	3214	3750	4286	4821	5357	5893	6428

25107

SUPPLEMENTAL TABLES

SW-2, 09 JUL 2026 to 03 SEP 2026

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

ALTURAS, CA
ALTURAS MUNI(AAT)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 31 1
DPS ..... BACHS TWO (OBSTACLE) (RNAV) 2
CHOIR THREE (RNAV) 3

AMEDEE AAF(KAHC)
HERLONG, CA
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 27 4

ARCATA/EUREKA, CA
CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY(ACV)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 32 5
RNAV (GPS) RWY 01 6
RNAV (GPS) RWY 14 7
RNAV (GPS) RWY 32 8
AIRPORT DIAGRAM 9
DPS ..... HOCUT FIVE 10

ATWATER, CA
CASTLE(MER)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
IAPS ..... ILS OR LOC RWY 31 11
RNAV (GPS) RWY 13 12
RNAV (GPS) RWY 31 13
AIRPORT DIAGRAM 14

AUBURN, CA
AUBURN MUNI(AUN)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 07 15
DPS ..... YUBBA ONE (OBSTACLE) 16

BEALE AFB(KBAB)
MARYSVILLE, CA
TAKEOFF MINIMUMS L
HOT SPOT ..... P
IAPS ..... ILS OR LOC Y RWY 15 17
ILS OR LOC Y RWY 33 18
RNAV (GPS) RWY 15 19
RNAV (GPS) RWY 33 20
TACAN Y RWY 15 21
TACAN Y RWY 33 22
AIRPORT DIAGRAM 23
DPS ..... PYNUN SEVEN 24

BECKWOURTH, CA
NERVINO(O02)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) Y RWY 26 25
RNAV (GPS) Z RWY 26 26

BISHOP, CA
BISHOP(BIH)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (RNP) RWY 30 27
RNAV (GPS) Y RWY 12 28
RNAV (GPS) Z RWY 12 29
LDA RWY 17 30
AIRPORT DIAGRAM 31

BUCHANAN FLD
---SEE CONCORD, CA

BYRON, CA
BYRON(C83)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 30 32

CALAVERAS COUNTY/MAURY RASMUSSEN FLD
---SEE SAN ANDREAS, CA

CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY
---SEE ARCATA/EUREKA, CA

CASTLE
---SEE ATWATER, CA

CHARLES M SCHULZ/SONOMA COUNTY
---SEE SANTA ROSA, CA

CHESTER, CA
ROGERS FLD(O05)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 34 33
DPS ..... CHOTT ONE (OBSTACLE) (RNAV) 34

CHICO, CA
CHICO RGNL(CIC)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 13L 35
RNAV (GPS) RWY 13L 36
RNAV (GPS) RWY 31R 37
AIRPORT DIAGRAM 38
DPS ..... CHICO FIVE 39

CLOVERDALE, CA
CLOVERDALE MUNI(O60)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 32 40

COALINGA, CA
NEW COALINGA MUNI(C80)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 30 41
DPS ..... AVENAL ONE (OBSTACLE) 42

SW-2, 09 JUL 2026 to 03 SEP 2026

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

COLUMBIA, CA
COLUMBIA(O22)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 35 43
DPS ..... FICHU FOUR (OBSTACLE) (RNAV) 44

COLUSA, CA
SIDNEY PICKELS FLD(O08)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-B 45
RNAV (GPS) RWY 32 46
VOR-A 47

CONCORD, CA
BUCHANAN FLD(CCR)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
STARS .... BMBER ONE (RNAV) Z7
IAPS ..... RNAV (GPS) RWY 19R 48
LDA RWY 19R 49
VOR RWY 19R 50
AIRPORT DIAGRAM 51
DPS ..... BUCHANAN TWO 52

CRESCENT CITY, CA
JACK MC NAMARA FLD(CEC)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 12 53
RNAV (GPS) RWY 12 54
RNAV (GPS) RWY 36 55
VOR/DME RWY 12 56
VOR/DME RWY 36 57
VOR RWY 12 58

DAVIS, CA
UNIVERSITY(EDU)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 17 59
RNAV (GPS) RWY 35 60

DAVIS/WOODLAND/WINTERS, CA
YOLO COUNTY(DWA)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 16 61
RNAV (GPS) RWY 34 62

ELLS FLD/WILLITS MUNI
---SEE WILLITS, CA

EUREKA, CA
MURRAY FLD(EKA)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 12 63
RNAV (GPS)-B 64

FAIRFIELD, CA
---SEE TRAVIS AFB

FIREBAUGH, CA
FIREBAUGH(F34)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-B 65

FORTUNA, CA
ROHNERVILLE(FOT)
TAKEOFF MINIMUMS L
IAPS ..... GPS RWY 11 66
GPS RWY 29 67

FRESNO, CA
FRESNO CHANDLER EXEC(FCH)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 12 68
RNAV (GPS) RWY 30 69
AIRPORT DIAGRAM 70
FRESNO YOSEMITE INTL(FAT)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS .... ALTTA NINE Z2
IAPS ..... ILS Y OR LOC Y RWY 29R 71
ILS Y RWY 29R (SA CAT I) 72
ILS Y RWY 29R (CAT II - III) 73
RNAV (GPS) RWY 11L 74
RNAV (GPS) RWY 11R 75
RNAV (GPS) RWY 29L 76
RNAV (GPS) RWY 29R 77
LOC Y RWY 11L 78
TACAN RWY 11L 79
TACAN RWY 29R 80
AIRPORT DIAGRAM 81
DPS ..... BULLDOG THREE 82
COALDALE FOUR 83
YOSEMITE THREE 84

GNOSS FLD
---SEE NOVATO, CA

GRASS VALLEY, CA
NEVADA COUNTY(GOO)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 07 85
AIRPORT DIAGRAM 86

GROVELAND, CA
GROVELAND/YOSEMITE(E45)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 09 87
GPS RWY 27 88

HAIGH FLD
---SEE ORLAND, CA

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

26190

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

HALF MOON BAY, CA
HALF MOON BAY(HAF)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
IAPS ..... RNAV (GPS) RWY 12 89
RNAV (GPS) RWY 30 90
DPS ..... SEEMS ONE (OBSTACLE) (RNAV) 91

HANFORD, CA
HANFORD MUNI(HJO)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 32 92
RNAV (GPS)-B 93

HAYWARD, CA
HAYWARD EXEC(HWD)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
STARS ..... EMZOH FOUR (RNAV) Z13
OAKES THREE (RNAV) Z18
PANOCHE SIX Z22
IAPS ..... RNAV (GPS) RWY 28L 94
LOC RWY 28L 95
AIRPORT DIAGRAM 96

HEALDSBURG, CA
HEALDSBURG MUNI(HES)
STARS ..... REBAS ONE (RNAV) Z28
VNYRD ONE (RNAV) Z43

HERLONG, CA
---SEE AMEDEE AAF

HOLLISTER, CA
HOLLISTER MUNI(CVH)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 13 97
RNAV (GPS) RWY 31 98

JACK MC NAMARA FLD
---SEE CRESCENT CITY, CA

JACKSON, CA
WESTOVER FLD AMADOR COUNTY(JAQ)
TAKEOFF MINIMUMS L
IAPS ..... GPS RWY 01 99
VOR/DME RWY 01 100

KING CITY, CA
MESA DEL REY(KIC)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 11 101
RNAV (GPS) RWY 29 102

LAKE TAHOE
---SEE SOUTH LAKE TAHOE, CA

LAKEPORT, CA
LAMPSON FLD(1O2)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-A 103
DPS ..... LAKEPORT THREE (RNAV) 104

LAMPSON FLD
---SEE LAKEPORT, CA

LEMOORE NAS (REEVES FLD)(KNLC)
LEMOORE, CA
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
RADAR MINIMUMS ..... N
IAPS ..... RNAV (GPS) RWY 14L 105
RNAV (GPS) RWY 14R 106
RNAV (GPS) RWY 32L 107
RNAV (GPS) RWY 32R 108
TACAN Y RWY 14L 109
TACAN Y RWY 32L 110
AIRPORT DIAGRAM 111
DPS ..... LEMOORE TWO 112
REEVES FIVE 113

LINCOLN, CA
LINCOLN RGNL/KARL HARDER FLD(LHM)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 15 114
RNAV (GPS) RWY 15 115
RNAV (GPS) RWY 33 116

LITTLE RIVER, CA
LITTLE RIVER(LLR)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 29 117
DPS ..... LITTLE RIVER ONE (OBSTACLE) (RNAV) 118

LIVERMORE, CA
LIVERMORE MUNI(LVK)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
IAPS ..... ILS RWY 25R 119
RNAV (GPS) RWY 25R 120
LOC RWY 25R 121
AIRPORT DIAGRAM 122
DPS ..... LIVERMORE THREE (OBSTACLE) 123

LODI, CA
LODI(1O3)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-B 125

LOS BANOS, CA
LOS BANOS MUNI(LSN)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 14 126
RNAV (GPS) RWY 32 127

26190

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

MADERA, CA
MADERA MUNI(MAE)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 12 128
RNAV (GPS) RWY 30 129

MAMMOTH LAKES, CA
MAMMOTH YOSEMITE(MMH)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 27 130
DPS ..... NIKOL TWO (OBSTACLE) 131
CROLI ONE (RNAV) 132
OENNS ONE (RNAV) 133

MARINA, CA
MARINA MUNI(OAR)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 11 134
RNAV (GPS) RWY 29 135
AIRPORT DIAGRAM 136

MARIPOSA, CA
MARIPOSA-YOSEMITE(MPI)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS)-A 137
RNAV (GPS)-B 138

MARYSVILLE, CA
YUBA COUNTY(MYV)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 14 139
RNAV (GPS) RWY 14 140
RNAV (GPS) RWY 32 141
AIRPORT DIAGRAM 142

MARYSVILLE, CA
---SEE BEALE AFB

MC CLELLAN AIRFIELD
---SEE SACRAMENTO, CA

MEFFORD FLD
---SEE TULARE, CA

MERCED, CA
MERCED YOSEMITE RGNL(MCE)
TAKEOFF MINIMUMS L
IAPS ..... ILS OR LOC RWY 30 143
RNAV (GPS) RWY 12 144
RNAV (GPS) RWY 30 145
LOC BC RWY 12 146

MESA DEL REY
---SEE KING CITY, CA

MODESTO, CA
MODESTO CITY-COUNTY-HARRY SHAM FLD(MOD)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 28R 147
RNAV (GPS) RWY 28R 148
AIRPORT DIAGRAM 149

MOFFETT FEDERAL AIRFIELD
---SEE MOUNTAIN VIEW, CA

MONTAGUE, CA
SISKIYOU COUNTY(SIY)
TAKEOFF MINIMUMS L
IAPS ..... NDB OR GPS-A 150

MONTEREY, CA
MONTEREY RGNL(MRY)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 10R 151
RNAV (GPS) RWY 10R 152
RNAV (GPS) Y RWY 28L 153
LOC RWY 28L 154
RACEWAY VISUAL RWY 28L 155
AIRPORT DIAGRAM 156
DPS ..... MONTEREY FIVE 157
TORO SEVEN 158

MOUNTAIN VIEW, CA
MOFFETT FEDERAL AIRFIELD(NUQ)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS ..... BRIXX FOUR (RNAV) Z10
POINT REYES THREE Z25
IAPS ..... ILS OR LOC RWY 32R 159
RNAV (GPS) RWY 14L 160
RNAV (GPS) RWY 14R 161
RNAV (GPS) RWY 32L 162
RNAV (GPS) RWY 32R 163
LOC RWY 14L 164
TACAN RWY 32L 165
TACAN RWY 32R 166
DUMBARTON VISUAL RWY 14L 167
AIRPORT DIAGRAM 168
DPS ..... HOOKS TWO 169
WOODSIDE TWO 170

MURRAY FLD
---SEE EUREKA, CA

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

NAPA, CA
NAPA COUNTY(APC)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
LAHSO ..... O
HOT SPOT ..... P
STARS .... REBAS ONE (RNAV) Z28
VNYRD ONE (RNAV) Z43
IAPS ..... ILS Z OR LOC Z RWY 01L 171
RNAV (GPS) RWY 06 172
RNAV (GPS) RWY 19R 173
RNAV (GPS) Y RWY 01L 174
RNAV (GPS) Z RWY 01L 175
VOR RWY 06 176
AIRPORT DIAGRAM 177
DPS ..... NAPAA FOUR (OBSTACLE) 178
LIZRD SIX 181
MERLOT FOUR 182
OZIEE FOUR (RNAV) 183

NERVINO
---SEE BECKWOURTH, CA

NEVADA COUNTY
---SEE GRASS VALLEY, CA

NEW COALINGA MUNI
---SEE COALINGA, CA

NORMAN Y MINETA SAN JOSE INTL
---SEE SAN JOSE, CA

NOVATO, CA
GNOSS FLD(DVO)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS .... REBAS ONE (RNAV) Z28
VNYRD ONE (RNAV) Z43
IAPS ..... RNAV (GPS) RWY 13 185

NUT TREE
---SEE VACAVILLE, CA

OAKDALE, CA
OAKDALE(O27)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 10 186
RNAV (GPS) RWY 28 187

OAKLAND, CA
OAKLAND SAN FRANCISCO BAY(OAK)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
STARS .... AANET ONE (RNAV) Z1
EMZOH FOUR (RNAV) Z13
OAKES THREE (RNAV) Z18
PANOCHE SIX Z22
PIRAT THREE (RNAV) Z24
WNDSR TWO (RNAV) Z46
IAPS ..... ILS OR LOC RWY 12 188
ILS OR LOC RWY 28R 189
ILS OR LOC RWY 30 190
ILS RWY 12 (SA CAT I) 191
ILS RWY 30 (SA CAT I) 192
ILS RWY 30 (CAT II - III) 193
RNAV (RNP) Z RWY 12 194
RNAV (RNP) Z RWY 28L 195
RNAV (RNP) Z RWY 28R 196
RNAV (RNP) Z RWY 30 197
RNAV (GPS) RWY 10L 198
RNAV (GPS) RWY 10R 199
RNAV (GPS) Y RWY 12 200
RNAV (GPS) Y RWY 28L 201
RNAV (GPS) Y RWY 28R 202
RNAV (GPS) Y RWY 30 203
VOR RWY 10R 204
AIRPORT DIAGRAM 205
DPS ..... CNDEL FIVE (RNAV) 206
COAST NINE 207
HUSSH TWO (RNAV) 209
KATFH THREE (RNAV) 210
NIMITZ SIX 211
NUEVO EIGHT 212
OAKLAND SIX 214
QUAKE TWO 216
SALAD FIVE 217
SILENT THREE 218
SKYLINE ONE 220
SUNNE ONE 222

ORLAND, CA
HAIGH FLD(O37)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-A 223

OROVILLE, CA
OROVILLE MUNI(OVE)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 02 224
VOR-A 225

PALO ALTO, CA
PALO ALTO(PAO)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS .... POINT REYES THREE Z25
IAPS ..... RNAV (GPS) RWY 31 226
AIRPORT DIAGRAM 227

SW-2, 09 JUL 2026 to 03 SEP 2026

26190

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

PETALUMA, CA

PETALUMA MUNI(O69)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS .... REBAS ONE (RNAV) Z28
VNYRD ONE (RNAV) Z43
IAPS ..... RNAV (GPS) RWY 29 228
VOR RWY 29 229
DPS ..... SCAGGS ISLAND ONE (OBSTACLE) 230

PLACERVILLE, CA

PLACERVILLE(PVF)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 05 231

PORTERVILLE, CA

PORTERVILLE MUNI(PTV)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... GPS RWY 12 232
GPS RWY 30 233
VOR-A 234

RED BLUFF, CA

RED BLUFF MUNI(RBL)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 15 235
RNAV (GPS) RWY 33 236
VOR/DME RWY 15 237
VOR RWY 33 238

REDDING, CA

BENTON FLD(O85)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-A 239
RNAV (GPS)-B 240
DPS ..... REDDING ONE (OBSTACLE) 241

REDDING RGNL(RDD)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 35 242
RNAV (GPS) RWY 17 243
RNAV (GPS) RWY 35 244
LOC BC RWY 17 245
VOR RWY 35 246
AIRPORT DIAGRAM 247
DPS ..... HOMAN FOUR 248
KENDL FIVE 249
SHASTA FIVE 250

REEDLEY, CA

REEDLEY MUNI(O32)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 16 251
RNAV (GPS) RWY 34 252

REID-HILLVIEW OF SANTA CLARA COUNTY
---SEE SAN JOSE, CA

RIO VISTA, CA

RIO VISTA MUNI(O88)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 25 253

ROGERS FLD
---SEE CHESTER, CA

ROHNERVILLE
---SEE FORTUNA, CA

SACRAMENTO, CA

MC CLELLAN AIRFIELD(MCC)
IAPS ..... ILS OR LOC RWY 16 254
VOR/DME RWY 34 255
AIRPORT DIAGRAM 256

SACRAMENTO EXEC(SAC)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
IAPS ..... ILS OR LOC RWY 02 257
RNAV (GPS) RWY 02 258
VOR RWY 02 259
AIRPORT DIAGRAM 260

SACRAMENTO INTL(SMF)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
STARS .... FEVTA ONE (RNAV) Z15
SLMMR FIVE (RNAV) Z36
SUUTR FOUR (RNAV) Z40
TUDOR TWO Z41
IAPS ..... ILS OR LOC RWY 17L 261
ILS OR LOC RWY 17R 262
ILS OR LOC RWY 35L 263
ILS RWY 17R (SA CAT I) 264
ILS RWY 17R (CAT II - III) 265
ILS RWY 17L (SA CAT II) 266
RNAV (RNP) Z RWY 17L 267
RNAV (RNP) Z RWY 17R 268
RNAV (RNP) Z RWY 35L 269
RNAV (RNP) Z RWY 35R 270
RNAV (GPS) Y RWY 17L 271
RNAV (GPS) Y RWY 17R 272
RNAV (GPS) Y RWY 35L 273
RNAV (GPS) Y RWY 35R 274
AIRPORT DIAGRAM 275
DPS ..... FROGO ONE 276
FTHIL THREE (RNAV) 277
RVRCT FOUR (RNAV) 278
SCTWN FOUR (RNAV) 279

SACRAMENTO MATHER(MHR)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS .... AMRVR TWO (RNAV) Z4
IAPS ..... ILS Y OR LOC Y RWY 22L 280
ILS Z OR LOC Z RWY 22L 281
ILS Z RWY 22L (SA CAT I - II) 282
RNAV (GPS) RWY 04R 283
RNAV (GPS) RWY 22L 284
RNAV (GPS) RWY 22R 285
AIRPORT DIAGRAM 286

SW-2, 09 JUL 2026 to 03 SEP 2026

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

SALINAS, CA

SALINAS MUNI(SNS)

TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS RWY 31 287
RNAV (GPS) RWY 08 288
RNAV (GPS) RWY 13 289
RNAV (GPS) Y RWY 31 290
RNAV (GPS) Z RWY 31 291
LOC RWY 31 292
VOR RWY 13 293
AIRPORT DIAGRAM 294
DPS ..... SALINAS THREE 295

SAN ANDREAS, CA

CALAVERAS COUNTY/MAURY RASMUSSEN FLD(CPU)

TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 31 296

SAN CARLOS, CA

SAN CARLOS(SQL)

TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
STARS .... POINT REYES THREE Z25
IAPS ..... RNAV (GPS) Y RWY 30 297
RNAV (GPS) Z RWY 30 298
AIRPORT DIAGRAM 299

SAN FRANCISCO, CA

SAN FRANCISCO INTL(SFO)

TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
STARS .... ALWYS THREE (RNAV) Z3
BDEGA FOUR (RNAV) Z5
BIG SUR THREE Z6
DYAMD FIVE (RNAV) Z11
MODESTO NINE Z17
PIRAT THREE (RNAV) Z24
POINT REYES THREE Z25
RISTI ONE (RNAV) Z30
SERFR FOUR (RNAV) Z33
STINS FOUR Z37
STLER FOUR (RNAV) Z38
WWAVS TWO (RNAV) Z47
YOSEM THREE (RNAV) Z48
IAPS ..... ILS OR LOC RWY 19L 300
ILS OR LOC RWY 28L 301
ILS OR LOC RWY 28R 302
ILS RWY 28R (SA CAT I) 303
ILS RWY 28R (CAT II - III) 304
ILS RWY 28L (SA CAT II) 305
GLS RWY 19L 306
GLS RWY 19R 307
GLS RWY 28L 308
GLS RWY 28R 309
RNAV (RNP) Y RWY 28R 310
RNAV (RNP) Z RWY 10R 311
RNAV (GPS) RWY 10L 312
RNAV (GPS) RWY 19L 313
RNAV (GPS) RWY 28L 314
RNAV (GPS) U RWY 28R 315
RNAV (GPS) Y RWY 10R 316
RNAV (GPS) Y RWY 19R 317
RNAV (GPS) Z RWY 19R 318
RNAV (GPS) Z RWY 28R 319
QUIET BRIDGE VISUAL RWY 28R 320
TIPP TOE VISUAL RWY 28L/R 321
AIRPORT DIAGRAM 322
DPS ..... CIITY THREE (RNAV) 323
GAP SEVEN 324
GNNRR THREE (RNAV) 325
MOLEN NINE 326
NIITE FOUR (RNAV) 327
SAHEY FOUR (RNAV) 328
SAN FRANCISCO FIVE 329
SEGUL ONE (RNAV) 330
SNTNA TWO (RNAV) 331
SSTIK FIVE (RNAV) 332
TRUKN TWO (RNAV) 333
WESLA FIVE (RNAV) 334

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

SAN JOSE, CA

NORMAN Y MINETA SAN JOSE INTL(SJC)

TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
STARS .... BRINY TWO Z9
BRIXX FOUR (RNAV) Z10
FRLON TWO (RNAV) Z16
POINT REYES THREE Z25
RAZRR FIVE (RNAV) Z26
RISTI ONE (RNAV) Z30
ROBIE FIVE Z31
SILCN SIX (RNAV) Z34
IAPS ..... ILS OR LOC RWY 12R 335
ILS OR LOC RWY 30L 336
ILS RWY 30L (SA CAT I - II) 337
RNAV (RNP) Z RWY 12L 338
RNAV (RNP) Z RWY 12R 339
RNAV (RNP) Z RWY 30L 340
RNAV (RNP) Z RWY 30R 341
RNAV (GPS) Y RWY 12L 342
RNAV (GPS) Y RWY 12R 343
RNAV (GPS) Y RWY 30L 344
RNAV (GPS) Y RWY 30R 345
FAIRGROUNDS VISUAL RWY 30L/R 346
AIRPORT DIAGRAM 347
DPS ..... ALMDN FOUR (RNAV) 348
BMRNG FOUR (RNAV) 349
LOUPE ONE (RNAV) 350
SAN JOSE THREE 351
SPTNS ONE (RNAV) 352
SUNOL ONE 353
TECKY FOUR (RNAV) 354

REID-HILLVIEW OF SANTA CLARA COUNTY(RHV)

TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
HOT SPOT ..... P
STARS .... POINT REYES THREE Z25
IAPS ..... RNAV (GPS) RWY 13L 355
RNAV (GPS) Y RWY 31R 356
RNAV (GPS) Z RWY 31R 357
AIRPORT DIAGRAM 358
DPS ..... DECOT ONE (OBSTACLE) (RNAV) 359
HENCE ONE (OBSTACLE) 360

SAN MARTIN, CA

SAN MARTIN(E16)

TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 32 362

SAN RAFAEL, CA

SAN RAFAEL(CA35)

STARS .... REBAS ONE (RNAV) Z28
VNYRD ONE (RNAV) Z43

SANTA ROSA, CA

CHARLES M SCHULZ/SONOMA COUNTY(STS)

TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
LAHSO ..... O
HOT SPOT ..... P
STARS .... REBAS ONE (RNAV) Z28
VNYRD ONE (RNAV) Z43
IAPS ..... ILS OR LOC RWY 32 363
RNAV (GPS) RWY 02 364
RNAV (GPS) RWY 14 365
RNAV (GPS) RWY 32 366
AIRPORT DIAGRAM 367
DPS ..... CHARLIE EIGHT 368
CHRRO ONE (RNAV) 369
MMORK ONE (RNAV) 370
RREHD ONE (RNAV) 371

SIDNEY PICKELS FLD
---SEE COLUSA, CA

SISKIYOU COUNTY
---SEE MONTAGUE, CA

SOUTH LAKE TAHOE, CA

LAKE TAHOE(TVL)

TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 18 372
LDA RWY 18 373
AIRPORT DIAGRAM 374
DPS ..... EDGGE ONE (RNAV) 375
RICHY SEVEN 376

STOCKTON, CA

STOCKTON METRO(SCK)

TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
IAPS ..... ILS OR LOC RWY 29R 377
ILS RWY 29R (SA CAT II) 378
RNAV (GPS) RWY 11L 379
RNAV (GPS) RWY 29R 380
AIRPORT DIAGRAM 381

SUSANVILLE, CA

SUSANVILLE MUNI(SVE)

TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 29 382
RNAV (GPS)-A 383
DPS ..... AMEDEE TWO (OBSTACLE) 384

TRACY, CA

TRACY MUNI(TCY)

TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 12 385
RNAV (GPS) RWY 26 386
RNAV (GPS) RWY 30 387
VOR RWY 26 388
DPS ..... TRACY ONE 389

SW-2, 09 JUL 2026 to 03 SEP 2026

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

TRAVIS AFB(KSUU)
FAIRFIELD, CA
TAKEOFF MINIMUMS L
HOT SPOT ..... P
STARS .... BMBER ONE (RNAV) Z7
OSVEE TWO (RNAV) Z20
PALISADES ONE Z21
PEBLL TWO (RNAV) Z23
SEATO FOUR Z32
SUTHU TWO (RNAV) Z39
WEBGO TWO (RNAV) Z45
IAPS ..... ILS OR LOC OR RNAV (GPS) RWY 21L 390
ILS RWY 21L (CAT II) 391
RNAV (GPS) RWY 03R 392
TACAN RWY 21L 393
AIRPORT DIAGRAM 394
DPS ..... BESSA TWO (RNAV) 395
REJOY ONE (RNAV) 396

TRUCKEE, CA
TRUCKEE-TAHOE(TRK)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
IAPS ..... RNAV (GPS) RWY 11 397
RNAV (GPS) RWY 20 398
RNAV (GPS)-A 399
AIRPORT DIAGRAM 400
DPS ..... TRUCK FIVE (OBSTACLE) 401
MOWGL TWO (RNAV) 403

TULARE, CA
MEFFORD FLD(TLR)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 13 404

TURLOCK, CA
TURLOCK MUNI(O15)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-A 405

UKIAH, CA
UKIAH MUNI(UKI)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 15 406
RNAV (GPS)-B 407
LOC RWY 15 408
VOR-A 409
DPS ..... RONHU TWO (RNAV) 410
RYPAX TWO (RNAV) 411

UNIVERSITY
---SEE DAVIS, CA

VACAVILLE, CA
NUT TREE(VCB)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 20 412
VOR-A 413
DPS ..... SOKOY THREE 414

VISALIA, CA
VISALIA MUNI(VIS)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 30 415
RNAV (GPS) RWY 12 416
RNAV (GPS) RWY 30 417

WATSONVILLE, CA
WATSONVILLE MUNI(WVI)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 02 418
LOC RWY 02 419
VOR-A 420
AIRPORT DIAGRAM 421
DPS ..... WATSONVILLE FOUR (OBSTACLE) 422
GARLK ONE (RNAV) 423

WATTS-WOODLAND
---SEE WOODLAND, CA

WEED, CA
WEED(O46)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 14 424
DPS ..... FOBRO ONE (OBSTACLE) (RNAV) 425

WESTOVER FLD AMADOR COUNTY
---SEE JACKSON, CA

WILLITS, CA
ELLS FLD/WILLITS MUNI(O28)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 16 426
RNAV (GPS) RWY 34 427
DPS ..... FLUEN TWO (OBSTACLE) (RNAV) 428
MENDOCINO ONE (OBSTACLE) (RNAV) 429

WILLOWS, CA
WILLOWS/GLENN COUNTY(WLW)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 34 430
VOR RWY 34 431

WOODLAND, CA
WATTS-WOODLAND(O41)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 36 432

YOLO COUNTY
---SEE DAVIS/WOODLAND/WINTERS, CA

YUBA COUNTY
---SEE MARYSVILLE, CA

SW-2, 09 JUL 2026 to 03 SEP 2026

IFR TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. An entry may also be listed that contains only Takeoff Obstacle Notes. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

The FAA redefined the initial climb area (ICA) criteria used to evaluate and identify the obstacles that penetrate the 40:1 OCS. The takeoff obstacle notes are published in a different manner and an additional minimums option is added for the departure. To ensure the pilot knows which evaluation was accomplished, the charting will be different by bolding certain headers and runway information to indicate the new ICA criteria has been used as indicated in (1) and (2) below. Until the FAA can amend all departures, the legacy obstacle notes will still be published.

(1) For textual departures, the headers Takeoff Minimums, Departure Procedure, and Takeoff Obstacle Notes will be bolded and underlined. The specific runway entries under each header will continue to be bolded.

(2) For graphic departure procedures, the headers Takeoff Minimums and Takeoff Obstacle Notes will be bolded and continue to be underlined. The specific runway entries for these headers will be bolded. In the Departure Route Description section of the graphic departure, the heading will be bolded and underlined, and the runway information will be bolded.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or RADAR vector as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must notify ATC of their intent to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow RADAR vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

ALTURAS, CA

ALTURAS MUNI (AAT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10APR08 (08101) (FAA)

DEPARTURE PROCEDURE:

Use BACHS DEPARTURE.

AMEDEE AAF (KAHC)

HERLONG, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 30JAN20 (20030)

TAKEOFF MINIMUMS:

Rwy 9, std. w/min. climb of 350' per NM to 9500, or 4100-3 for VCOA.

Rwy 27, std. w/min. climb of 390' per NM to 8500, or 4100-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 9, climbing right turn on a heading between 086° CW to 266° from DER.

Rwy 27, climbing left turn on a heading between 086° CW 266° from DER.

VCOA:

All runways, obtain ATC approval for VCOA When requesting IFR clearance. Climb in visual Conditions to cross AMEDEE AAF at or above 8000 before proceeding on course.

ARCATA-EUREKA, CA

CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY (ACV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 12OCT17 (17285) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, std. w/min. climb of 360' per NM to 500 or 1100-2½ for VCOA.

Rwy 14, 400-2½ or std. w/min. climb of 382' per NM to 600.

DEPARTURE PROCEDURE:

Rwy 1, 32, climbing left turn to intercept ACV R-250 to HOCUT INT and continue climb to MEA on V27.

Rwy 14, 19, climbing right turn to intercept ACV R-250 to HOCUT INT and continue climb to MEA on V27.

VCOA:

Rwy 1, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross California Redwood Coast-Humboldt County airport westbound at or above 1200 to intercept ACV R-250 to HOCUT INT and continue climb to MEA on V27.

TAKEOFF OBSTACLE NOTES:

Rwy 1, runway lights 10' from DER, 54' left and right of centerline, 1' AGL/209' MSL.
Fence beginning 150' from DER, 397' right of centerline, up to 9' AGL/217' MSL.
Tree, fence, pole beginning 222' from DER, 158' right of centerline, up to 260' MSL.
Tree 276' from DER, 491' left of centerline, 245' MSL.
Trees beginning 310' from DER, 198' left of centerline, up to 248' MSL.
Tree 383' from DER, 408' right of centerline, 316' MSL.
Trees beginning 385' from DER, 0' left of centerline, up to 179' AGL/325' MSL.
Trees beginning 423' from DER, 11' left of centerline, up to 118' AGL/260' MSL.
Trees beginning 583' from DER, 6' left of centerline, up to 178 AGL/278' MSL.
Trees beginning 1922' from DER, 179' right of centerline, up to 344' MSL.
Trees beginning 2291' from DER, 266' right of centerline, up to 124 AGL/356' MSL.
Tree 3390' from DER, 164' left of centerline, 150' AGL/335' MSL.
Trees beginning 3400' from DER, 108' left of centerline, up to 175' AGL/357' MSL.
Trees beginning 3478' from DER, 12' left of centerline, up to 187' AGL/364' MSL.
Tree 3602' from DER, 725' right of centerline, 358' MSL.
Trees beginning 3603' from DER, 1' right of centerline, up to 177' AGL/365' MSL.
Trees beginning 3714' from DER, 34' left of centerline, up to 192' AGL/369' MSL.
Trees beginning 3722' from DER, 51' left of centerline, up to 197' AGL/372' MSL.
Trees beginning 3763' from DER, 1' left of centerline, up to 202' AGL/375' MSL.
Tree 4016' from DER, 567' right of centerline, 367' MSL.
Trees beginning 4017' from DER, 67' right of centerline, up to 197' AGL/373' MSL.
Trees beginning 6044' from DER, 852' left of centerline, up to 163' AGL/379' MSL.
Tree 1.1 NM from DER, 48' right of centerline, 385' MSL.
Trees beginning 1.2 NM from DER, 1220' right of centerline, up to 416' MSL.
Trees beginning 1.7 NM from DER, 2648' right of centerline, up to 602' MSL.
Tree 1.8 NM from DER, 3460' right of centerline, 605' MSL.
Rwy 14, runway lights 9' from DER, 54' left and right of centerline, 1' AGL/223' MSL.
Tree 621' from DER, 591' left of centerline, 256' MSL.
Tree, antenna, pole, beginning 733' from DER, 378' left of centerline, up to 262' MSL.
Tree 1086' from DER, 716' right of centerline, 277' MSL.
Trees, beginning 1110' from DER, 717' right of centerline, up to 290' MSL.
Tree 1701' from DER, 860' left of centerline, 283' MSL.
Trees beginning 1843' from DER, 875' left of centerline, up to 307' MSL.
Trees, beginning 2568' from DER, 801' left of centerline, up to 321' MSL.
Trees beginning 3085' from DER, 565' left of centerline, up to 326' MSL.
Tree 3807' from DER, 1202' left of centerline, 374' MSL.
Trees, beginning 3827' from DER, 794' left of centerline, up to 392' MSL.
Trees, beginning 4152' from DER, 813' left of centerline, up to 420' MSL.
Trees, beginning 4514' from DER, 1245' left of centerline, up to 443' MSL.
Trees, beginning 4707' from DER, 880' left of centerline, up to 446' MSL.
Trees, beginning 5176' from DER, 1028' left of centerline, up to 447' MSL.
Trees, beginning 5712' from DER, 1337' left of centerline, up to 467' MSL.
Trees, beginning 1.1 NM from DER, 1618' left of centerline, up to 515' MSL.
Trees, beginning 1.2 NM from DER, 1929' left of centerline, up to 565' MSL.
Tree 1.7 NM from DER, 3238' left of centerline, 568' MSL.
Trees beginning 1.8 NM from DER, 1864' left of centerline, up to 588' MSL.
Rwy 19, runway lights 9' from DER, 55' left and right of centerline, 189' MSL.
Vegetation 15' from DER, 270' right of centerline, 191' MSL.
Tree 776' from DER, 696' right of centerline, 77' AGL/215' MSL.
Rwy 32, fence, beginning 91' from DER, 476' right of centerline, up to 196' MSL.
Fence 132' from DER, 221' left of centerline, 8' AGL/188' MSL.
Tree, fence, bush beginning 183' from DER, 202' left of centerline, up to 195' MSL.
Fence, beginning 268' from DER, 176' right of centerline, up to 13' AGL/197' MSL.
Obs light DME, NAVAID, beginning 580' from DER, 258' right of centerline, up to 29' AGL/203' MSL.
Tree 1022' from DER, 624' right of centerline, 256' MSL.
Trees, beginning 1036' from DER, 448' right of centerline, up to 267' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

ATWATER, CA

CASTLE (MER)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 15DEC11 (11349) (FAA)

TAKEOFF MINIMUMS:

Rwy 13, std. w/ min. climb of 250' per NM to 2500 or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 13, climb heading 126° to 2500 before turning left. For climb in visual conditions, cross Castle Airport at or above 2200 before proceeding on course.

Rwy 31, climb heading 306° to 1100 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 13, tree 2539' from DER, 1005' right of centerline, 89' AGL/261' MSL.

Rwy 31, tree 1274' from DER, 829' left of centerline, 20' AGL/224' MSL.

Trees beginning 2909' from DER, 542' right of centerline, 65' AGL/269' MSL.

AUBURN, CA

AUBURN MUNI (AUN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 25JAN24 (24025) (FAA)

DEPARTURE PROCEDURE:

Use YUBBA DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 7, tree 98' from DER, 447' left of centerline, 1541' MSL.

Building, tree beginning 99' from DER, 234' right of centerline, up to 24' AGL/1553' MSL.

Tree 959' from DER, 241' right of centerline, 1578' MSL.

Tree 992' from DER, 431' right of centerline, 1602' MSL.

Trees beginning 1035' from DER, 139' right of centerline, up to 1614' MSL.

Trees beginning 1103' from DER, 244' right of centerline, up to 1587' MSL.

Trees beginning 1266' from DER, 263' right of centerline, up to 1676' MSL.

Pole, electrical system, trees beginning 1366' from DER, 253' right of centerline, up to 60' AGL/1679' MSL.

Trees beginning 1514' from DER, 56' right of centerline, up to 1681' MSL.

Tree 5369' from DER, 1805' left of centerline, 1684' MSL.

Trees beginning 5546' from DER, 1593' left of centerline, up to 1735' MSL.

Trees beginning 1 NM from DER, 1140' left of centerline, up to 1779' MSL.

Trees beginning 1.1 NM from DER, 1983' right of centerline, up to 1726' MSL.

Tree, pole beginning 1.3 NM from DER, 1113' right of centerline, up to 1773' MSL.

Trees beginning 1.4 NM from DER, 918' left of centerline, up to 1796' MSL.

Trees, transmission line, tank, building beginning 1.5 NM from DER, 372' left of centerline, up to 1801' MSL.

Trees beginning 1.6 NM from DER, 535' left of centerline, up to 1915' MSL.

Tree, traverse way beginning 1.7 NM from DER, 1523' left of centerline, up to 1859' MSL.

Electrical system, trees beginning 2.1 NM from DER, 2928' left of centerline, up to 62' AGL/2059' MSL.

Tree 2.2 NM from DER, 3991' left of centerline, 2151' MSL.

Trees beginning 2.3 NM from DER, 3015' left of centerline, up to 2105' MSL.

Tree 2.4 NM from DER, 4231' left of centerline, 1986' MSL.

Rwy 25, rising terrain 26' from DER, 286' right of centerline, 1496' MSL.

Trees beginning 31' from DER, 477' left of centerline, up to 1532' MSL.

Tree, rising terrain, fences, vertical structure, building beginning 89' from DER, 199' right of centerline, up to 1529' MSL.

Trees beginning 774' from DER, 419' right of centerline, up to 1538' MSL.

Tree 1023' from DER, 652' right of centerline, 1539' MSL.

Trees beginning 1678' from DER, 207' right of centerline, up to 1547' MSL.

BEALE AFB (KBAB)

MARYSVILLE, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 25JAN24 (24025) (USAF)

TAKEOFF MINIMUMS:

Rwy 33, 3400-3 or std w/min climb of 203'/NM to 3900.

DEPARTURE PROCEDURE:

Rwy 15, climb on a hdg between 100° CW to 325° from DER.

Rwy 33, climb on a hdg between 146° CW to 344° from DER.

TAKEOFF OBSTACLE NOTES:

Rwy 33, terrain 0' from DER, 500' right of centerline, 118' MSL.

Aircraft tail 129' from DER, 525' right of centerline, 16' AGL/134' MSL.

BECKWOURTH, CA

NERVINO (O02)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 17OCT13 (13290) (FAA)

TAKEOFF MINIMUMS:

Rwys 8, 26, 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwys 8, 26, for climb in visual conditions: cross Nervino airport at or above 8300 before proceeding on course.

CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

BECKWOURTH, CA (CON'T)

NERVINO (O02) (CON'T)

TAKEOFF OBSTACLE NOTES:

Rwy 8, road 58' from DER, 469' right of centerline, 15' AGL/4920' MSL.
Pole 310' from DER, 522' right of centerline, 49' AGL/4925' MSL.
Pole 528' from DER, 522' right of centerline, 39' AGL/4924' MSL.
Tree 1.47 NM from DER, 727' right of centerline, 100' AGL/5193' MSL.
Tree 1.9 NM from DER, 2534' right of centerline, 100' AGL/5499' MSL.
Bush 2.03 NM from DER, 2126' right of centerline, 4' AGL/5406' MSL.
Rwy 26, tree 5856' from DER, 1984' right of centerline, 100' AGL/5339' MSL.
Tree 1.25 NM from DER, 2439' right of centerline, 100' AGL/5420' MSL.
Tree 2.07 NM from DER, 3302' left of centerline, 100' AGL/5570' MSL.

BISHOP, CA

BISHOP (BIH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 29MAR18 (18088) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, 12, 17, 9000-3 for VCOA.
Rwy 26, std. w/ min. climb of 280' per NM to 10400', or 9000-3 for VCOA.
Rwys 30, 35, std. w/ min. climb of 285' per NM to 10500', or 9000-3 for VCOA.

DEPARTURE PROCEDURE:

Rwys 26, 30, climbing right turn on heading 360, thence…
Rwy 35, climbing left turn on heading 290, thence…
…all aircraft intercept BIH R-322 to NIKOL INT/BIH 38.46 DME. Aircraft departing NIKOL on V244 westbound cross NIKOL at or above 13100; aircraft departing NIKOL on V381 southeast bound cross NIKOL at or above 13000; aircraft departing NIKOL on T298 westbound or T259 westbound cross NIKOL at or above 12200; all other aircraft cross NIKOL at or above 11000.

VCOA:

All Rwys, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Bishop airport at or above 13000' before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 26, trees and bushes beginning 69' from DER, 150' right of centerline, up to 4197' MSL.
Trees beginning 925' from DER, 32' left of centerline, up to 4167' MSL.
Rwy 35, trees beginning 238' from DER, 31' left of centerline, up to 4146' MSL.
Trees beginning 215' from DER, 146' right of centerline, up to 4146' MSL.

BYRON, CA

BYRON (C83)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwy 23, NA - obstacles.
Rwy 30, 200-1⅛ or std. with a min. climb of 245' per NM to 300, or alternatively, with standard takeoff minimums and normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

DEPARTURE PROCEDURE:

Rwy 5, climbing left turn heading 010°, thence...
Rwy 12, climbing left turn heading 360°, thence…
Rwy 30, climbing right turn heading 065°, thence…
…on LIN VOR/DME R-227 to LIN VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 5, bush 17' from DER, 67' right of centerline, 6' AGL/52' MSL.
Rwy 12, multiple trees and bush beginning 240' from DER, 286' right of centerline, up to 39' AGL/76' MSL.
Rwy 30, multiple poles, building, and terrain beginning 66' from DER, 228' left of centerline, up to 65' AGL/225' MSL.
Multiple poles beginning 949' from DER, 28' right of centerline, up to 42' AGL/103' MSL.

CHESTER, CA

ROGERS FLD (O05)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 31OCT24 (24305) (FAA)

DEPARTURE PROCEDURE:

Use CHOTT DEPARTURE.

CHICO, CA

CHICO RGNL (CIC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 21MAY20 (23054) (FAA)

DEPARTURE PROCEDURE:

Rwys 13L/R, climbing right turn heading 230° to intercept V-23/T-261.
Rwys 31L/R, climbing left turn heading 230° to intercept V-23/T-261.

CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

CHICO, CA (CON'T)

CHICO RGNL (CIC) (CON'T)

TAKEOFF OBSTACLE NOTES:

Rwy 13L, terrain 298' from DER, 537' left of centerline, 216' MSL.
Trees, pole beginning 947' from DER, 560' left of centerline, up to 241' MSL.
Rwy 13R, vehicles on road beginning at DER, left and right of centerline, up to 225' MSL.
Rwy 31L, vehicles on road beginning at DER, left and right of centerline, up to 235' MSL.
Tower 611' from DER, 349' right of centerline, 35' AGL/267' MSL.
Rwy 31R, tree 1124' from DER, 612' right of centerline, 282' MSL.
Tree 1363' from DER, 768' left of centerline, 280' MSL.

CLOVERDALE, CA

CLOVERDALE MUNI (O60)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17JUN21 (21168) (FAA)

TAKEOFF MINIMUMS:

Rwy 14, 300-1 w/min. climb of 475' per NM to 1400, or 3900-3 for VCOA.
Rwy 32, 3900-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 14, climb on a heading between 120° CW to 150° from DER to 4500 before proceeding on course.

VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Cloverdale Muni airport at or above 4000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, tree 38' from DER, 411' right of centerline, 305' MSL.
Vegetation 61' from DER, 307' left of centerline, 276' MSL.
Vegetation beginning 80' from DER, 90' left of centerline, up to 9' AGL/279' MSL.
Trees beginning 95' from DER, 18' right of centerline, up to 43' AGL/310' MSL.
Tree 391' from DER, 29' left of centerline, 31' AGL/291' MSL.
Tree 396' from DER, 154' left of centerline, 40' AGL/298' MSL.
Tree 416' from DER, 80' left of centerline, 37' AGL/299' MSL.
Trees beginning 419' from DER, 20' left of centerline, up to 43' AGL/303' MSL.
Tree 448' from DER, 207' left of centerline, 58' AGL/329' MSL.
Tree, pole beginning 611' from DER, 30' right of centerline, up to 314' MSL.
Trees, ag equip beginning 662' from DER, 20' left of centerline, up to 369' MSL.
Trees beginning 1046' from DER, 325' right of centerline, up to 352' MSL.
Trees, stack, buildings beginning 1483' from DER, 41' right of centerline, up to 373' MSL.
Buildings, pipeline pipes, poles, trees, ag equip, transmission lines beginning 1907' from DER, 8' right of centerline, up to 142' AGL/427' MSL.
Ag equip, tree beginning 2902' from DER, 37' left of centerline, up to 5' AGL/371' MSL.
Tree 2970' from DER, 291' left of centerline, 48' AGL/380' MSL.
Ag equip beginning 2979' from DER, 87' left of centerline, up to 5' AGL/386' MSL.
Antenna, trees, ag equip, pole beginning 3082' from DER, 70' left of centerline, up to 19' AGL/403' MSL.
Tree, buildings beginning 4785' from DER, 503' left of centerline, up to 31' AGL/426' MSL.
Tree 4878' from DER, 415' left of centerline, 37' AGL/428' MSL.
Tree 4916' from DER, 511' left of centerline, 52' AGL/446' MSL.
Ag equip beginning 1 NM from DER, 1806' right of centerline, up to 6' AGL/448' MSL.
Tree 1 NM from DER, 1969' right of centerline, 496' MSL.
Trees beginning 1.1 NM from DER, 1127' right of centerline, up to 534' MSL.
Tree 1.5 nm from DER, 2973' right of centerline, 549' MSL.
Tree 1.6 NM from DER, 2150' right of centerline, 529' MSL.
Trees beginning 1.6 NM from DER, 1753' right of centerline, up to 719' MSL.
Trees beginning 1.7 NM from DER, 393' right of centerline, up to 814' MSL.
Trees beginning 2.2 NM from DER, 8' right of centerline, up to 772' MSL.
Tree 2.2 NM from DER, 59' left of centerline, 620' MSL.
Tree 2.5 NM from DER, 1452' right of centerline, 780' MSL.
Rwy 32, tree 32' from DER, 497' right of centerline, 288' MSL.
Ag equip 35' from DER, 371' left of centerline, 6' AGL/283' MSL.
Tree 51' from DER, 252' left of centerline, 297' MSL.
Tree, fences beginning 71' from DER, 67' right of centerline, up to 313' MSL.
Trees, ag equip, fences beginning 96' from DER, 62' left of centerline, up to 30' AGL/322 ' MSL.
Tree 419' from DER, 477' right of centerline, 329' MSL.
Tree 450' from DER, 372' left of centerline, 341' MSL.
Trees beginning 806' from DER, 505' right of centerline, up to 331' MSL.
Trees beginning 989' from DER, 293' left of centerline, up to 363' MSL.
Tree 2915' from DER, 965' right of centerline, 349' MSL.
Tree, building beginning 2967' from DER, 1241' left of centerline, up to 393' MSL.
Trees beginning 3274' from DER, 173' right of centerline, up to 374' MSL.
Trees beginning 1.6 NM from DER, 292' right of centerline, up to 581' MSL.
Tree, building beginning 2.2 NM from DER, 221' right of centerline, up to 652' MSL.
Tree 2.3 NM from DER, 276' right of centerline, 672' MSL.
Tank 2.4 NM from DER, 3970' left of centerline, 680' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

COALINGA, CA

NEW COALINGA MUNI (C80)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05OCT23 (23278) (FAA)

TAKEOFF MINIMUMS:

Rwys 1, 19, NA-Environmental.

DEPARTURE PROCEDURE:

Rwys 12, 30, use AVENAL DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 12, vehicle on road beginning 9' from DER, 362' left of centerline, up to 614' MSL.
NAVAID 15' from DER, 125' right of centerline, 2' AGL/603' MSL.
Vehicle on road beginning 76' from DER, 506' right of centerline, up to 614' MSL.
Rwy 30, NAVAID 14' from DER, 125' left of centerline, 1' AGL/626' MSL.
Terrain 43' from DER, 472' right of centerline, 627' MSL.
Vehicle on road beginning 145' from DER, 456' right of centerline, up to 645' MSL.
Vehicle on road 202' from DER, 446' left of centerline, 643' MSL.
Vehicle on road 330' from DER, 378' right of centerline, 646' MSL.
Vehicle on road beginning 384' from DER, 1' left of centerline, up to 644' MSL.
Vehicle on road 532' from DER, 362' right of centerline, 647' MSL.
Vehicle on road beginning 655' from DER, on and left of centerline, up to 646' MSL.
Vehicle on road beginning 679' from DER, on and right of centerline, up to 648' MSL.
Vehicle on road beginning 731' from DER, 113' left of centerline, up to 648' MSL.

COLUMBIA, CA

COLUMBIA (O22)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 30JAN20 (20030) (FAA)

TAKEOFF MINIMUMS:

Rwys 11, 29, NA - Environmental.
Rwy 35, NA - ATC.

DEPARTURE PROCEDURE:

Rwy 17, use FICHU RNAV DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 17, bush 31' from DER, 196' right of centerline, 2083' MSL.
Tree 148' from DER, 387' right of centerline, 2108' MSL.
Trees beginning 180' from DER, 287' left of centerline, up to 2126' MSL.
Tree 262' from DER, 527' right of centerline, 2163' MSL.
Trees beginning 354' from DER, 240' left of centerline, up to 2127' MSL.
Tree, rd (n), pole, grd, bush beginning 414' from DER, 46' right of centerline, up to 2188' MSL.
Tree 456' from DER, 325' left of centerline, 2130' MSL.
Trees beginning 492' from DER, 109' left of centerline, up to 2133' MSL.
Trees beginning 725' from DER, 26' left of centerline, up to 2171' MSL.
Trees beginning 1260' from DER, 56' left of centerline, up to 2181' MSL.
Tree 1527' from DER, 893' right of centerline, 2205' MSL.
Tree 1619' from DER, 860' right of centerline, 2220' MSL.
Trees beginning 1664' from DER, 896' right of centerline, up to 2238' MSL.
Tree 2152' from DER, 982' left of centerline, 2212' MSL.
Tree 2195' from DER, 988' left of centerline, 2262' MSL.
Tree 2195' from DER, 987' left of centerline, 2273' MSL.
Tree, tower beginning 5842' from DER, 410' left of centerline, up to 2339' MSL.
Tree 5936' from DER, 557' left of centerline, 2239' MSL.

COLUSA, CA

SIDNEY PICKELS FLD (O08)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11JUL24 (26190) (FAA)

DEPARTURE PROCEDURE:

Rwy 14, climbing right turn heading 175° to intercept ILA R-030 to ILA VORTAC before proceeding on course.
Rwy 32, climbing left turn direct ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, vehicle on road 1' from DER, 350' right of centerline, 60' MSL.
Vehicles on road, fence, sign beginning 23' from DER, 233' right of centerline, up to 62' MSL.
Vehicle on road, vegetation beginning 39' from DER, 455' left of centerline, up to 67' MSL.
Vehicles on road beginning 95' from DER, 472' left of centerline, up to 68' MSL.
Tree, fence, vehicles on road beginning 139' from DER, 347' left of centerline, up to 77' MSL.
Buildings, fence, vehicle on road beginning 194' from DER, 196' right of centerline, up to 14' AGL/63' MSL.
Building, vehicles on road, trees beginning 437' from DER, 57' right of centerline, up to 31' AGL/80' MSL.
Trees beginning 803' from DER, 145' right of centerline, up to 103' MSL.
Building 1477' from DER, 429' left of centerline, 61' AGL/107' MSL.
Rwy 32, building, fence beginning 92' from DER, 253' left of centerline, up to 13' AGL/63' MSL.
Buildings beginning 168' from DER, 444' right of centerline, up to 22' AGL/70' MSL.
Tree, vehicle on road beginning 239' from DER, 165' left of centerline, up to 90' MSL.
Building 358' from DER, 323' right of centerline, 22' AGL/71' MSL.
CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

COLUSA, CA (CON'T)

SIDNEY PICKELS FLD (O08) (CON'T)

Rwy 32 (CON'T), building, tanks beginning 369' from DER, 413' right of centerline, up to 27' AGL/76' MSL.
Vehicles on road 490' from DER, left and right of centerline, up to 15' AGL/64' MSL.
Tree, pole beginning 820' from DER, 473' left of centerline, up to 91' MSL.
Tower 1396' from DER, 91' right of centerline, 55' AGL/105' MSL.
Transmission line 2163' from DER, 378' right of centerline, 57' AGL/107' MSL.
Tree 2836' from DER, 195' right of centerline, 120' MSL.

CONCORD, CA

BUCHANAN FLD (CCR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 22JUN17 (21112) (FAA)

TAKEOFF MINIMUMS:

Rwys 1L/R, std. w/min. climb of 330' per NM to 1000 or 3700-3 for VCOA.
Rwys 14L/R, std. w/min. climb of 420' per NM to 2700 or 3700-3 for VCOA.
Rwys 19L/R, std. w/min. climb of 490' per NM to 3900 or 3700-3 for VCOA.
Rwys 32L/R, std. w/min. climb of 330' per NM to 1000 or 3700-3 for VCOA.

DEPARTURE PROCEDURE:

Rwys 1L/R, 14L/R, 19L/R, climbing left turn direct CCR VOR/DME, thence...
Rwys 32L/R, climbing right turn direct CCR VOR/DME, thence...
...aircraft departing on CCR VOR/DME R-150 clockwise R-110, climb on course.
All others, climb in CCR VOR/DME holding pattern (hold N, left turns, 191° inbound) to cross CCR VOR/DME at or above 3400 before proceeding on course.

VCOA:

All Rwys, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Buchanan Fld airport at or above 3600 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 1L, fence 116' from DER, 1' right of centerline, 29' MSL.
Building 639' from DER, 381' right of centerline, 25' AGL/48' MSL.
Vegetation 675' from DER, 96' left of centerline, 38' MSL.
Tree and poles beginning 1261' from DER, 19' right of centerline, up to 78' MSL.
Flagpole 1520' from DER, 753' left of centerline, 71' MSL.
Tree, camera, and general utility beginning 1860' from DER, 48' right of centerline, up to 98' MSL.
Pole 1906' from DER, 120' left of centerline, 51' AGL/72' MSL.
Sign 1996' from DER, 812' left of centerline, 78' MSL.
Tree 2392' from DER, 8' left of centerline, 83' MSL.
Rwy 1R, pole 1551' from DER, 97' right of centerline, 43' AGL/67' MSL.
Pole 1864' from DER, 357' right of centerline, 96' MSL.
Tree 1927' from DER, 222' right of centerline, 131' MSL.
Tree 2110' from DER, 981' right of centerline, 133' MSL.
Rwy 14L, vehicles on road and fences beginning 82' from DER, 29' left of centerline, up to 40' MSL.
Building and trees beginning 731' from DER, 191' left of centerline, up to 51' MSL.
Trees and buildings beginning 840' from DER, 93' left of centerline, up to 77' MSL.
Trees, poles, and buildings beginning 942' from DER, 13' left of centerline, up to 102' MSL.
Trees, buildings, and poles beginning 1116' from DER, 10' right of centerline, up to 40' AGL/71' MSL.
Tree 1465' from DER, 112' right of centerline, 73' MSL.
Trees beginning 1496' from DER, 121' right of centerline, up to 84' MSL.
Trees beginning 1648' from DER, 62' right of centerline, up to 91' MSL.
Trees and building beginning 1750' from DER, 30' left of centerline, up to 105' MSL.
Tree 2570' from DER, 93' right of centerline, 92' MSL.
Buildings beginning 5413' from DER, 99' left of centerline, up to 177' MSL.
Building 5456' from DER, 138' left of centerline, 146' AGL/179' MSL.
Rwy 14R, windsock 411' from DER, 451' right of centerline, 31' AGL/51' MSL.
Control tower 1140' from DER, 315' right of centerline, 61' AGL/84' MSL.
Electrical system, tree, pole, and antenna beginning 1140' from DER, 167' right of centerline, up to 98' MSL.
Tree 2744' from DER, 886' left of centerline, 102' MSL.
Building 3149' from DER, 946' right of centerline, 92' AGL/125' MSL.
Buildings beginning 3253' from DER, 846' right of centerline, up to 103' AGL/136' MSL.
Rwy 19L, tree 2132' from DER, 376' left of centerline, 90' MSL.
Tree 2257' from DER, 27' left of centerline, 97' MSL.
Tree 2543' from DER, 384' right of centerline, 87' MSL.
Tree 3111' from DER, 946' right of centerline, 106' MSL.
Rwy 19R, terrain 43' from DER, 397' left of centerline, 25' MSL.
Fence 123' from DER, 502' left of centerline, 30' MSL.
Tree 603' from DER, 489' right of centerline, 44' MSL.
Pole and trees beginning 844' from DER, 152' right of centerline, up to 94' MSL.
Tree 1023' from DER, 81' left of centerline, 59' MSL.
Pole and trees beginning 1201' from DER, 568' left of centerline, up to 77' MSL.
Building and trees beginning 1275' from DER, 114' left of centerline, up to 97' MSL.
Tree 2129' from DER, 447' right of centerline, 106' MSL.
Tree 2755' from DER, 216' left of centerline, 108' MSL.
Rwy 32L, building 7' from DER, 321' left of centerline, 18' AGL/35' MSL.
Vehicles on road and hangar beginning 259' from DER, 300' left of centerline, up to 37' MSL.
CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

CONCORD, CA (CON'T)

BUCHANAN FLD (CCR) (CON'T)

Rwy 32L (CON'T), vehicles on road beginning 560' from DER, 3' right of centerline, up to 34' MSL.
Vehicles on road 627' from DER, 609' left of centerline, 38' MSL.
Vehicles on road beginning 631' from DER, 63' left of centerline, up to 38' MSL.
Building 633' from DER, 253' right of centerline, 17' AGL/35' MSL.
Vehicles on road 699' from DER, 8' right of centerline, 38' MSL.
Vehicles on road beginning 715' from DER, 37' right of centerline, up to 39' MSL.
Vehicles on road beginning 720' from DER, 2' left of centerline, up to 39' MSL.
Vehicles on road beginning 730' from DER, 137' right of centerline, up to 40' MSL.
Vehicles on road beginning 751' from DER, 216' right of centerline, up to 41' MSL.
Vehicles on road beginning 792' from DER, 493' right of centerline, up to 42' MSL.
Vehicles on road beginning 798' from DER, on centerline, up to 42' MSL.
Tree 824' from DER, 135' left of centerline, 40' MSL.
Vehicles on road beginning 891' from DER, 488' right of centerline, up to 43' MSL.
Vehicles on road 920' from DER, 642' right of centerline, 44' MSL.
Transmission towers beginning 6014' from DER, 1332 'left of centerline, up to 173' MSL.
Tank 1 NM from DER, 1927' right of centerline, 213' MSL.
Chimney 1.4 NM from DER, 2458' right of centerline, 355' AGL/378' MSL.
Refinery 1.6 NM from DER, 2934' right of centerline, 308' AGL/322' MSL.
Rwy 32R, terrain 81' from DER, 481' right of centerline, 21' MSL.
Vehicles on road 559' from DER, 3' right of centerline, 34' MSL.
Vehicles on road 585' from DER, 496' left of centerline, 34' MSL.
Building 632' from DER, 246' left of centerline, 35' MSL.
Building 653' from DER, 236' right of centerline, 41' MSL.
Flagpole, signs, and vehicles on road beginning 654' from DER, 55' right of centerline, up to 21' AGL/43' MSL.
Vehicles on road beginning 677' from DER, 491' left of centerline, up to 38' MSL.
Vehicles on road beginning 714' from DER, 374' left of centerline, up to 39' MSL.
Vehicles on road beginning 730' from DER, 243' left of centerline, up to 40' MSL.
Vehicles on road and trees beginning 750' from DER, 6' left of centerline, up to 41' MSL.
Vehicles on road beginning 820' from DER, 285' right of centerline, up to 45' MSL.
Vehicles on road beginning 824' from DER, 234' right of centerline, up to 47' MSL.
Vehicles on road 828' from DER, 624' right of centerline, 48' MSL.
Vehicles on road beginning 829' from DER, on centerline, up to 50' MSL.
Vehicles on road beginning 867' from DER, 43' left of centerline, up to 42' MSL.
Vehicles on road 899' from DER, 11' left of centerline, 43' MSL.
Vehicles on road beginning 932' from DER, 269' right of centerline, up to 52' MSL.
Agricultural equipment 2109' from DER, 600' right of centerline, 78' AGL/99' MSL.
Pole 3700' from DER, 1431' right of centerline, up to 40' AGL/150' MSL.
Pole 4067' from DER, 1531' right of centerline, 43' AGL/161' MSL.
Tank 4527' from DER, 1675' right of centerline, 57' AGL/170' MSL.
Transmission tower 6013' from DER, 1840' left of centerline, 173' MSL.
Tank 1 NM from DER, 1423' right of centerline, 126' AGL/213' MSL.
Chimney 1.4 NM from DER, 1954' right of centerline, 355' AGL/378' MSL.
Refinery 1.6 NM from DER, 2429' right of centerline, 308' AGL/322' MSL.

CRESCENT CITY, CA

JACK MC NAMARA FLD (CEC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 03JAN19 (22139) (FAA)

TAKEOFF MINIMUMS:
Rwy 12, 300-2¼ or std. w/min. climb of 254' per NM to 300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2200' prior to DER.
Rwy 18, 300-1 or std. w/min. climb of 308' per NM to 400.
Rwy 36, 300-1 or std. w/min. climb of 443' per NM to 300.
DEPARTURE PROCEDURE:
Rwys 12, 18, climbing right turn, thence...
Rwys 30, 36, climbing left turn, thence...
...Climb direct CEC VORTAC. Aircraft departing CEC R-144 CW R-350 climb on course. All others continue climb in CEC VORTAC holding pattern (hold south, left turn, 346° inbound) to cross CEC VORTAC at or above:
R-351 CW R-048, 2900;
R-049 CW R-113, 4300;
R-114 CW R-143, 2900.
TAKEOFF OBSTACLE NOTES:
Rwy 12, terrain 7' from DER, 6' right of centerline, 54' MSL.
Terrain 9' from DER, 15' left of centerline, 54' MSL.
NAVAID and tree beginning 12' from DER, 117' left of centerline, up to 4' AGL/57' MSL.
Tree 798' from DER, 378' left of centerline, 149' MSL.
Trees beginning 828' from DER, 437' left of centerline, up to 151' MSL.
Tree 1078' from DER, 390' right of centerline, 101' MSL.
Trees beginning 1162' from DER, 75' left of centerline, up to 163' MSL.
Trees beginning 1185' from DER, 156' right of centerline, up to 123' MSL.
Tree and pole beginning 1332' from DER, 215' right of centerline, up to 149' MSL.
Trees beginning 1458' from DER, 2' left of centerline, up to 169' MSL.
CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

CRESCENT CITY, CA (CON'T)

JACK MC NAMARA FLD (CEC) (CON'T)

Rwy 12 (CON'T), tree and pole beginning 1526' from DER, 93' right of centerline, up to 150' MSL.
Trees beginning 1914' from DER, 83' right of centerline, up to 152' MSL.
Trees beginning 2058' from DER, 155' right of centerline, up to 156' MSL.
Trees beginning 2353' from DER, 182' right of centerline, up to 159' MSL.
Trees beginning 2549' from DER, 604' right of centerline, up to 173' MSL.
Trees beginning 2656' from DER, 108' right of centerline, up to 175' MSL.
Trees beginning 2986' from DER, 73' right of centerline, up to 189' MSL.
Tree 5151' from DER, 211' right of centerline, 216' MSL.
Tree 5184' from DER, 47' left of centerline, 195' MSL.
Antenna 1.8 NM from DER, 2439' left of centerline, 320' AGL/333' MSL.
Rwy 18, terrain 27' from DER, 12' left of centerline, 52' MSL.
Structure 35' from DER, 113' right of centerline, 7' AGL/57' MSL.
Structure 35' from DER, 116' left of centerline, 4' AGL/54' MSL.
Trees beginning 183' from DER, 384' right of centerline, up to 59' MSL.
Vehicles on road 319' from DER, 570' left of centerline, 60' MSL.
Tree 412' from DER, 166' left of centerline, 64' MSL.
Trees beginning 445' from DER, 188' left of centerline, up to 66' MSL.
Trees beginning 543' from DER, 411' left of centerline, up to 68' MSL.
Terrain 4897' from DER, 1653' right of centerline, 202' MSL.
Terrain 4973' from DER, 1722' right of centerline, 242' MSL.
Rwy 30, NAVAID and terrain beginning 4' from DER, 5' right of centerline, up to 1' AGL/58' MSL.
Trees beginning 29' from DER, 374' right of centerline, up to 65' MSL.
Tree 153' from DER, 332' left of centerline, 65' MSL.
Tree 164' from DER, 439' left of centerline, 73' MSL.
Rwy 36, terrain 6' from DER, 317' left of centerline, 77' MSL.
Tree 104' from DER, 467' right of centerline, 77' MSL.
Tree 143' from DER, 201' left of centerline, 84' MSL.
Tree and vegetation beginning 185' from DER, 92' right of centerline, up to 86' MSL.
Tree and vegetation beginning 405' from DER, 197' right of centerline, up to 97' MSL.
Tree 663' from DER, 30' left of centerline, 86' MSL.
Tree 762' from DER, 97' left of centerline, 94' MSL.
Tree 791' from DER, 155' left of centerline, 96' MSL.
Tree 843' from DER, 227' left of centerline, 105' MSL.
Trees beginning 981' from DER, 100' left of centerline, up to 117' MSL.
Trees beginning 1081' from DER, 35' left of centerline, up to 135' MSL.
Tree 1135' from DER, 226' right of centerline, 104' MSL.
Tree 1273' from DER, 60' right of centerline, 111' MSL.
Trees beginning 1352' from DER, 100' right of centerline, up to 112' MSL.
Trees beginning 1550' from DER, 25' right of centerline, up to 129' MSL.
Tree 1629' from DER, 425' left of centerline, 149' MSL.
Trees beginning 1654' from DER, 473' left of centerline, up to 151' MSL.
Trees beginning 1824' from DER, 192' left of centerline, up to 159' MSL.
Trees beginning 1961' from DER, 78' left of centerline, up to 164' MSL.
Trees beginning 2056' from DER, 978' right of centerline, up to 150' MSL.
Tree 2322' from DER, 757' right of centerline, 155' MSL.
Trees beginning 2322' from DER, 35' right of centerline, up to 176' MSL.
Tree 2590' from DER, 908' right of centerline, 179' MSL.
Tree 2591' from DER, 1044' right of centerline, 189' MSL.
Trees beginning 2644' from DER, 367' right of centerline, up to 192' MSL.
Trees beginning 2696' from DER, 70' right of centerline, up to 195' MSL.
Trees beginning 2928' from DER, 135' left of centerline, up to 174' MSL.
Trees beginning 2933' from DER, 37' right of centerline, up to 196' MSL.
Trees beginning 3318' from DER, 75' left of centerline, up to 181' MSL.
Trees beginning 3587' from DER, 132' left of centerline, up to 182' MSL.

DAVIS, CA

UNIVERSITY (EDU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 07MAY09 (09127) (FAA)

DEPARTURE PROCEDURE:

Rwy 17, climbing right turn via heading 200° and ILA R-151 to EMBER INT/ILA 48 DME before proceeding on course.
Rwy 35, climbing left turn via heading 320° and ILA R-145 to ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 17, trees beginning 1353' from DER, 31' right of centerline, up to 40' AGL/109' MSL.
Rwy 35, tree 24' from DER, 433' left of centerline, 40' AGL/104' MSL.
Vehicle 288' from DER, on centerline, 15' AGL/74' MSL.

DAVIS/WOODLAND/WINTERS, CA

YOLO COUNTY (DWA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 19JUL18 (18200) (FAA)

DEPARTURE PROCEDURE:

Rwy 16, climb heading 164° to 2200 before turning right.

Rwy 34, climb heading 344° to 1500 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 16, tree 462' from DER, 543' right of centerline, 139' MSL.
Tree 733' from DER, 566' right of centerline, 147' MSL.
Trees beginning 1182' from DER, 434' left of centerline, up to 195' MSL.
Tree 2760' from DER, 217' right of centerline, 197' MSL.

Rwy 34, tree 367' from DER, 574' right of centerline, 135' MSL.
Tree, pole beginning 544' from DER, 473' left of centerline, up to 166' MSL.
Tree 1010' from DER, 541' left of centerline, 206' MSL.

EUREKA, CA

MURRAY FLD (EKA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 27AUG09 (21196) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, std. w/min. climb of 465' per NM to 1800 or 3800-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 12 climbing right turn heading 265° to intercept V27. For climb in visual conditions: cross Murray Fld airport at or above 3700 before proceeding on course.

Rwy 30, climbing left turn heading 265° to intercept V27.

TAKEOFF OBSTACLE NOTES:

Rwy 12, bush 50' from DER, 82' left of centerline, 6' AGL/16' MSL.
Multiple trees beginning 1.5 NM from DER, 2993' left of centerline.
Multiple trees beginning 1.6 NM from DER, 2318' right of centerline.

Rwy 30, multiple trees, beginning 443' from DER, 389' right of centerline, up to 93' AGL/103' MSL.
Tree 664' from DER, 587' left of centerline, 46' AGL/56' MSL.
Pole 753' from DER, 155' right of centerline 27' AGL/ 37' MSL.
Railroad 786' from DER, 4' left of centerline 23' AGL/31' MSL.
Road beginning 602' from DER, 4' left of centerline up to 15' AGL/23' MSL.
Bush 566' from DER, 69' left of centerline, 8' AGL/18' MSL.

FIREBAUGH, CA

FIREBAUGH (F34)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 20SEP12 (12264) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climbing right turn heading 134° to intercept the PXN VORTAC R-061 to MENDO INT. Aircraft departing MENDO INT heading 230° CW 150°, climb on course. All others, climb in MENDO INT holding pattern (hold NE, right turns, 241° inbound) to cross MENDO INT at or above 3000 before proceeding on course.

Rwy 30, climbing left turn heading 180° to intercept PXN VORTAC R-061 to PXN VORTAC, continue climb in PXN VORTAC holding pattern (SW, right turns, 049° inbound) to cross PXN VORTAC at or above airway MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 30, poles beginning 921' from DER, 525' left of centerline, up to 65' AGL/203' MSL.
Elevator 1941' from DER, 739' right of centerline, 97' AGL/242' MSL.

FORTUNA, CA

ROHNERVILLE (FOT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 23OCT86 (86296) (FAA)

TAKEOFF MINIMUMS:

Rwy 11, NA.

DEPARTURE PROCEDURE:

Climb direct FOT VORTAC. Continue climb in holding pattern (hold N, right turns, 161° inbound) to cross FOT VORTAC at or above 3000.

FRESNO, CA

FRESNO CHANDLER EXEC (FCH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 10OCT19 (21168) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climb on a heading between 101° CW to 290° from DER.

Rwy 30, climb on a heading between 111° CW to 338° from DER.

TAKEOFF OBSTACLE NOTES:

Rwy 12, sign 9' from DER, 125' left of centerline, 3' AGL/282' MSL.
Pole, traverse way, fence, vegetation, trees beginning 32' from DER, 125' right of centerline, up to 20' AGL/300' MSL.
Tree 94' from DER, 310' right of centerline, 317' MSL.
Trees, traverse way, vegetation, fence beginning 95' from DER, 60' right of centerline, up to 323 ' MSL.
Trees, poles, traverse ways, fence, transmission line, building beginning 154' from DER, right of centerline, up to 326' MSL.
Vegetation, fence beginning 250' from DER, 14' left of centerline, up to 292' MSL.
Trees, vegetation, traverse way beginning 344' from DER, 14' left of centerline, up to 294' MSL.
Traverse way, tree beginning 390' from DER, 10' left of centerline, up to 296' MSL.
Pole, trees, vegetation, traverse way beginning 408' from DER, 9' left of centerline, up to 31' AGL/311' MSL.
Trees, poles, transmission line, building beginning 476' from DER, 93' right of centerline, up to 341' MSL.
Trees, traverse ways, vegetation beginning 499' from DER, 47' left of centerline, up to 323 ' MSL.
Trees, poles, traverse way, transmission line, building beginning 615' from DER, 36' left of centerline, up to 332 ' MSL.
Trees, poles, buildings beginning 630' from DER, 4' right of centerline, up to 346' MSL.
Trees beginning 904' from DER, 15' left of centerline, up to 340' MSL.
Trees, poles beginning 934' from DER, 38' left of centerline, up to 346' MSL.
Trees, pole beginning 966' from DER, 7' right of centerline, up to 347' MSL.
Poles, tree beginning 1093' from DER, 263' left of centerline, up to 63' AGL/348' MSL.
Trees, poles beginning 1118' from DER, 12' left of centerline, up to 349' MSL.
Trees, poles beginning 1133' from DER, 2' right of centerline, up to 355' MSL.
Trees, poles beginning 1349' from DER, 13' left of centerline, up to 363' MSL.
Trees, pole beginning 1640' from DER, 88' left of centerline, up to 372' MSL.
Trees beginning 1756' from DER, 57' left of centerline, up to 375' MSL.
Trees beginning 1816 ' from DER, 31' right of centerline, up to 376' MSL.
Tree 3089' from DER, 146' left of centerline, 377' MSL.
Tree 3792 ' from DER, 172' left of centerline, 378' MSL.
Trees beginning 3938' from DER, 356' left of centerline, up to 391' MSL.
Rwy 30, traverse way 7' from DER, 341' right of centerline, 294' MSL.
Sign 21' from DER, 120' left of centerline, 2' AGL/279' MSL.
Pole, traverse way beginning 72' from DER, 374' left of centerline, up to 28' AGL/305' MSL.
Tree, fences, traverse way beginning 114' from DER, 122' right of centerline, up to 296' MSL.
Pole 140' from DER, 427' left of centerline, 38' AGL/315' MSL.
Trees, vegetation, traverse way, poles beginning 174' from DER, 43' left of centerline, up to 326' MSL.
Electrical system, traverse way beginning 377' from DER, 7' right of centerline, up to 19' AGL/297' MSL.
Tree 1412' from DER, 799' left of centerline, 358' MSL.
Poles beginning 1419' from DER, 158' right of centerline, up to 41' AGL/320' MSL.
Tree 1539' from DER, 844' left of centerline, 389' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

FRESNO YOSEMITE INTL (FAT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 9 10OCT19 (19283) (FAA)

TAKEOFF MINIMUMS:

Rwys 11L/R, 29L/R, std. w/min. climb of 250' per NM to 5000 or 5800 - 3 for VCOA.

DEPARTURE PROCEDURE:

Rwys 11L/R, climb heading 112° to 2500,then climbing left turn heading 040° to intercept FRA VORTAC R-150 to FRA VORTAC. Cross FRA VORTAC at or above 6000, thence...

Rwys 29L/R, climb heading 292° to 2500, then climbing right turn heading 350° to intercept FRA VORTAC R-230. Cross FRA VORTAC at or above 6000, thence...

...continue climb in FRA VORTAC holding pattern (hold south, left turn, 350° inbound) to cross FRA VORTAC at or above MEA/ MCA for route of flight.

VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Fresno Yosemite Intl airport at or above 6000, then on FRA R-180 to FRA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 11L, lighting beginning 109' from DER, on centerline, up to 4' AGL/336' MSL.
Pole 648' from DER, 542' left of centerline, 16' AGL/349' MSL.
Electrical system 1223' from DER, 662' right of centerline, 30' AGL/363' MSL.
Pole 1229' from DER, 664' right of centerline, 33' AGL/365' MSL.
Tree, pole beginning 1414' from DER, 668' right of centerline, up to 377' MSL.
Sign, transmission line beginning 1694' from DER, 862' right of centerline, up to 51' AGL/383' MSL.
Rwy 11R, lighting 10' from DER, 55' right of centerline, 1' AGL/331' MSL.
General utility 159' from DER, 433' left of centerline, 3' AGL/334' MSL.
Pole 329' from DER, 280' left of centerline, 21' AGL/349' MSL.
Tower 664' from DER, 274' left of centerline, 34' AGL/362' MSL.
Pole 1205' from DER, 569' right of centerline, 54' AGL/382' MSL.
Pole 1458' from DER, 393' right of centerline, 54' AGL/384' MSL.
Pole 1598' from DER, 294' right of centerline, 55' AGL/385' MSL.
CON'T

FRESNO, CA (CON'T)

FRESNO YOSEMITE INTL (FAT) (CON'T)

Rwy 11R (CON'T), electrical system, pole beginning 1598' from DER, 262' right of centerline, up to 57' AGL/386' MSL.
Tree 2648' from DER, 442' right of centerline, 398' MSL.
Rwy 29L lighting 9' from DER, 55' left of centerline, 2' AGL/331' MSL.
Lighting 10' from DER, 54' right of centerline, 1' AGL/331' MSL.
Transmission line, pole beginning 997' from DER, 620' left of centerline, up to 55' AGL/385' MSL.
Tree, transmission line beginning 1132' from DER, 189' left of centerline, up to 396' MSL.
Trees beginning 1457' from DER, 172' left of centerline, up to 429' MSL.
Trees beginning 1668' from DER, 2' right of centerline, up to 378' MSL.
Tree 1905' from DER, 359' right of centerline, 380' MSL.
Rwy 29R, lighting 9' from DER, 54' right of centerline, 2' AGL/334' MSL.
Pole 994' from DER, 601' right of centerline, 29' AGL/364' MSL.
Pole beginning 1019' from DER, 548' right of centerline, up to 30' AGL/365' MSL.
Trees beginning 2315' from DER, 847' left of centerline, up to 395' MSL.

GRASS VALLEY, CA

NEVADA COUNTY (GOO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 29MAR18 (18088) (FAA)

TAKEOFF MINIMUMS:
Rwy 7, NA.
DEPARTURE PROCEDURE:
Rwy 25, climb via MYV R-058 to 6000 then continue climb on course.
TAKEOFF OBSTACLE NOTES:
Rwy 25, multiple trees and bushes beginning 40' from DER, 78' right of centerline, up to 3087' MSL.
Trees beginning 68' from DER, 312' left of centerline, up to 3137' MSL.
Trees beginning 593' from DER, 149' right of centerline, up to 3088' MSL.
Tree 648' from DER, 176' right of centerline, 3093' MSL.
Trees beginning 698' from DER, 175' right of centerline, up to 3094' MSL.
Tree 748' from DER, 138' right of centerline, 3096' MSL.
Tree 773' from DER, 167' right of centerline, 3102' MSL.

GROVELAND, CA

GROVELAND/YOSEMITE (E45)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10NOV16 (26134) (FAA)

TAKEOFF MINIMUMS:
Rwy 9, 600-2¾ or std w/min climb of 400' per NM to 4000.
DEPARTURE PROCEDURE:
Rwy 9, turn right.
Rwy 27, turn left.
All aircraft climb direct LIN VOR/DME. Cross LIN VOR/DME at or above 5000.

HALF MOON BAY, CA

HALF MOON BAY (HAF)

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 16OCT14 (14289) (FAA)

Rwy 12, heading as assigned by ATC.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15JUN23 (23166) (FAA)

TAKEOFF MINIMUMS:
Rwy 12, std. w/min. climb of 375' per NM to 3200.
DEPARTURE PROCEDURE:
Rwy 12, climb on heading 122° to 3000, then climbing left turn direct OSI VOR/DME. Continue climb in OSI holding pattern (hold southeast, left turns, 321° inbound) to cross OSI VOR/DME at or above 5100 on V25-87 before proceeding on course.
Rwy 30, use SEEMS DEPARTURE.
TAKEOFF OBSTACLE NOTES:
Rwy 12, tree 2557' from DER, 212' left of centerline, 90' AGL/114' MSL.
Rwy 30, trees beginning 1248' from DER, 83' left of centerline, up to 160' MSL.
Tree 1263' from DER, 628' right of centerline, 156' MSL.
Trees and poles beginning 1490' from DER, 102' right of centerline, up to 160' MSL.
Trees beginning 1921' from DER, 161' left of centerline, up to 172' MSL.
Trees beginning 2234' from DER, 23' left of centerline, up to 192' MSL.

HANFORD, CA

HANFORD MUNI (HJO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 15SEP16 (16259) (FAA)

DEPARTURE PROCEDURE:

Rwy 14, climbing left turn heading 050° to intercept V-23.

Rwy 32, climbing right turn heading 050° to intercept V-23.

TAKEOFF OBSTACLE NOTES:

Rwy 14: fence 9' from DER, 298' left of centerline, 244' MSL.
Catenary 1293' from DER,1293' left of centerline, 39' AGL/287' MSL.
Poles beginning 1679' from DER, crossing centerline, up to 52' AGL/296' MSL.
Trees beginning 2224' from DER, 391' left of centerline up to 313' MSL.
Rwy 32: fence 168' from DER, 9' left of centerline, 245' MSL.
Pole 588' from DER, 588' left of centerline, 25' AGL/278' MSL.
Sign 614' from DER, 151' right of centerline, 9' AGL/261' MSL.
Trees and poles beginning 592' from DER, 3' left of centerline, up to 300' MSL.
Poles beginning 1127' from DER, 222' right of centerline, up to 40' AGL/293' MSL.
Tree 2159' from DER, 434' right of centerline, 299' MSL.

HAYWARD, CA

HAYWARD EXEC (HWD)

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 20FEB25 (25051) (FAA)

Rwy 10L, heading as assigned by ATC; requires min climb of 211' per NM to 300.
Rwy 10R, heading as assigned by ATC
Rwys 28L/R, heading as assigned by ATC; requires min climb of 310' per NM to 4600.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1B 07AUG25 (25219) (FAA)

TAKEOFF MINIMUMS:

Rwy 10L, 300-1¼ or std w/min climb of 211'/NM to 300.

DEPARTURE PROCEDURE:

Rwys 10L/R, climbing right turn direct OSI VOR/DME.
Rwys 28L/R, climbing left turn direct OSI VOR/DME.

TAKEOFF OBSTACLE NOTES:

Rwy 10L, sign 32' from DER, 117' left of centerline, 3' AGL/40' MSL.
Signs beginning 71' from DER, 116' left of centerline, up to 6' AGL/43' MSL.
Building 108' from DER, 486' left of centerline, 18' AGL/55' MSL.
Building 621' from DER, 172' left of centerline, 16' AGL/58' MSL.
Building 625' from DER, 115' left of centerline, 17' AGL/59' MSL.
Buildings beginning 753' from DER, 99' left of centerline, up to 23' AGL/66' MSL.
Building 1144' from DER, 98' left of centerline, 23' AGL/70' MSL.
Tree 1376' from DER, 242' left of centerline, 32' AGL/81' MSL.
Tree 1378' from DER, 275' left of centerline, 33' AGL/83' MSL.
Trees, buildings beginning 1378' from DER, 117' left of centerline, up to 51' AGL/98' MSL.
Trees, poles beginning 1387' from DER, 12' left of centerline, up to 66' AGL/115' MSL.
Trees beginning 2050' from DER, 1' right of centerline, up to 60' AGL/107' MSL.
Trees beginning 2320' from DER, 191' left of centerline, up to 118' MSL.
Tree 2442' from DER, 52' right of centerline, 66' AGL/117' MSL.
Tree 2616' from DER, 67' left of centerline, 120' MSL.
Tree 2983' from DER, 120' left of centerline, 132' MSL.
Tree 3080' from DER, 803' left of centerline, 94' AGL/151' MSL.
Trees, buildings beginning 3881' from DER, 256' left of centerline, up to 107' AGL/168' MSL.
Rwy 10R, trees, terrain, poles, walls, fence, vehicles on road beginning 21' from DER, 9' left of centerline, up to 107' MSL.
Pole 23' from DER, 122' right of centerline, 10' AGL/60' MSL.
Poles, terrain, fence, walls, trees, buildings beginning 152' from DER, 26' right of centerline, up to 32' AGL/80' MSL.
Trees, buildings, vehicles on road beginning 414' from DER, 99' left of centerline, up to 66' AGL/117' MSL.
Trees, vehicles on road, poles, buildings, light poles beginning 588' from DER, 24' left of centerline, up to 120' MSL.
Poles, light poles beginning 729' from DER, 27' right of centerline, up to 30' AGL/82' MSL.
Poles, trees, light poles beginning 804' from DER, 62' right of centerline, up to 35' AGL/85' MSL.
Trees, poles, signs, buildings beginning 954' from DER, 14' left of centerline, up to 132' MSL.
Building 1104' from DER, 3' right of centerline, 42' AGL/92' MSL.
Pole 1194' from DER, 204' right of centerline, 43' AGL/93' MSL.
Trees, poles beginning 1224' from DER, 8' right of centerline, up to 43' AGL/95' MSL.
Tree 1877' from DER, 216' right of centerline, 48' AGL/99' MSL.
Trees beginning 1939' from DER, 104' right of centerline, up to 79' AGL/129' MSL.
Buildings, trees, signs beginning 2066' from DER, 653' left of centerline, up to 101' AGL/155' MSL.
Rwy 28L, tree, NAVAID beginning 94' from DER, 268' right of centerline, up to 13' AGL/39' MSL.
NAVAID, vehicle on road beginning 169' from DER, 259' right of centerline, up to 21' AGL/47' MSL.
Trees beginning 654' from DER, 46' right of centerline, up to 73' MSL.
Tree 751' from DER, 1' left of centerline, 32' AGL/55' MSL.
Tree 793' from DER, 43' left of centerline, 35' AGL/57' MSL.
Trees beginning 856' from DER, 190' left of centerline, up to 46' AGL/69' MSL.
CON'T

HAYWARD, CA (CON'T)

HAYWARD EXEC (HWD) (CON'T)

Rwy 28L (CON'T), trees beginning 897' from DER, 2' left of centerline, up to 108' MSL.
Tree 898' from DER, 531' right of centerline, 64' AGL/89' MSL.
Trees beginning 899' from DER, 67' right of centerline, up to 71' AGL/95' MSL.
Trees, poles beginning 962' from DER, 215' right of centerline, up to 74' AGL/97' MSL.
Trees beginning 1046' from DER, 139' right of centerline, up to 75' AGL/99' MSL.
Trees beginning 1079' from DER, 6' right of centerline, up to 82' AGL/105' MSL.
Trees, fence beginning 1280' from DER, 270' right of centerline, up to 91' AGL/113' MSL.
Rwy 28R, building 44' from DER, 445' right of centerline, 25' AGL/55' MSL.
Trees, fence beginning 389' from DER, 208' right of centerline, up to 81' MSL.
Trees beginning 642' from DER, 459' right of centerline, up to 95' AGL/128' MSL.
Trees, poles beginning 696' from DER, 3' right of centerline, up to 98' AGL/131' MSL.
NAVAID 726' from DER, 241' left of centerline, 21' AGL/47' MSL.
Trees beginning 1211' from DER, 260' left of centerline, up to 73' MSL.
Trees beginning 1461' from DER, 19' left of centerline, up to 68' AGL/91' MSL.
Tree 1496' from DER, 33' left of centerline, 69' AGL/93' MSL.
Trees beginning 1497' from DER, 5' left of centerline, up to 71' AGL/94' MSL.
Trees beginning 1519' from DER, 38' left of centerline, up to 74' AGL/97' MSL.
Tree 1769' from DER, 586' left of centerline, 82' AGL/101' MSL.
Trees beginning 1777' from DER, 44' left of centerline, up to 81' AGL/102' MSL.
Trees beginning 1837' from DER, 13' left of centerline, up to 91' AGL/113' MSL.

HOLLISTER, CA

HOLLISTER MUNI (CVH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05JUN08 (08157) (FAA)

TAKEOFF MINIMUMS:
Rwy 6, NA-obstacles.
Rwy 24, NA-ATC.
Rwy 13, std. w/ min. climb of 391' per NM to 3500, or 3100-3 for climb in visual conditions.
Rwy 31, std. w/ min climb of 209' per NM to 2300, or 3100-3 for climb in visual conditions.
DEPARTURE PROCEDURE:
Rwy 13, climbing right turn to heading 332° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course.
Rwy 31, climb heading 307° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 13, terrain beginning 992' from DER, 348' left of centerline, up to 289' MSL.
Terrain beginning 2467' from DER, 154' right of centerline, up to 309' MSL.
Trees beginning 1277' from departure end of runway, 348' left of centerline, up to 309' MSL.
Ttrees beginning 2467' from DER, 153' right of centerline, up to 270' MSL.
Rwy 31, terrain beginning 76' from DER, 392' left of centerline, up to 247' MSL.
Terrain beginning 14' from DER, 179' right of centerline, up to 231' MSL.

JACKSON, CA

WESTOVER FLD AMADOR COUNTY (JAQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 02NOV23 (23306) (FAA)

TAKEOFF MINIMUMS:
Rwy 1, 300-1 or std w/min climb of 672'/NM to 2000.
DEPARTURE PROCEDURE:
Rwy 1, climbing left turn direct LIN VOR/DME, continue climbing on course.
Rwy 19, climbing right turn direct LIN VOR/DME, continue climbing on course.
TAKEOFF OBSTACLE NOTES:
Rwy 1, terrain, utility building beginning 55' from DER, 169' right of centerline, up to 1701' MSL.
Terrain beginning 188' from DER, 193' right of centerline, up to 1702' MSL.
Terrain beginning 263' from DER, 252' right of centerline, up to 1703' MSL.
Tree 314' from DER, 170' left of centerline, 1692' MSL.
Vehicles on road 359' from DER, 76' left of centerline, 1693' MSL.
Terrain, vehicles on road beginning 456' from DER, 50' right of centerline, up to 1706' MSL.
Agricultural equipment, vehicles on road beginning 664' from DER, 265' right of centerline, up to 6' AGL/1730' MSL.
Tree 666' from DER, 194' left of centerline, 1701' MSL.
Tree 697' from DER, 56' left of centerline, 1703' MSL.
Building, vehicles on road, tree beginning 734' from DER, 8' right of centerline, up to 16' AGL/1741' MSL.
Poles, vehicles on road, fence beginning 779' from DER, 400' right of centerline, up to 45' AGL/1752' MSL.
Tree 1088' from DER, 392' right of centerline, 1756' MSL.
Pole 1123' from DER, 610' right of centerline, 39' AGL/1762' MSL.
Tree 1123' from DER, 740' right of centerline, 1764' MSL.
Trees, pole, vehicles on road beginning 1243' from DER, 331' right of centerline, up to 1772' MSL.
Trees, terrain, pole, transmission line, vehicles on road beginning 1406' from DER, 254' right of centerline, up to 1785' MSL.
Tree 1538' from DER, 876' right of centerline, 1789' MSL.
Tree 1561' from DER, 456' right of centerline, 1802' MSL.
CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

JACKSON, CA (CON'T)

WESTOVER FLD AMADOR COUNTY (JAQ) (CON'T)

Rwy 1 (CON'T), trees, vehicles on road beginning 1619' from DER, 255' right of centerline, up to 1812' MSL.
Trees, building beginning 1806' from DER, 633' right of centerline, up to 1828' MSL.
Tree, building, terrain beginning 1954' from DER, 188' right of centerline, up to 1833' MSL.
Tree, building beginning 2037' from DER, 547' right of centerline, up to 1855' MSL.
Trees, terrain beginning 2093' from DER, 188' right of centerline, up to 1855' MSL.
Rwy 19, light poles 9' from DER, 39' left of centerline, 1' AGL/1692' MSL.
Building, antenna beginning 56' from DER, 158' right of centerline, up to 20' AGL/1697' MSL.
Light poles, tank beginning 80' from DER, 104' left of centerline, up to 5' AGL/1695' MSL.
Tower 269' from DER, 411' right of centerline, 63' AGL/1714' MSL.

KING CITY, CA

MESA DEL REY (KIC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 26DEC24 (24361) (FAA)

TAKEOFF MINIMUMS:
Rwy 11, std w/min climb of 272' per NM to 2200 or 4500-3 for VCOA.
Rwy 29, std w/min climb of 326' per NM to 5700 or 4500-3 for VCOA.

DEPARTURE PROCEDURE:
Rwy 11, climb on a heading between 100° CW to 130° from DER.
Rwy 29, climb on a heading between 300° CW to 330° from DER.

VCOA:
Rwys 11, 29, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Mesa Del Ray airport at or above 4700 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 11, vehicle on road 3' from DER, 115' left of centerline, 375' MSL.
Trees, building beginning 5' from DER, 234' right of centerline, up to 16' AGL/385' MSL.
Building, terrain, fence beginning 16' from DER, 369' left of centerline, up to 10' AGL/386' MSL.
Tank 167' from DER, 518' left of centerline, 15' AGL/393' MSL.
Trees beginning 479' from DER, 370' left of centerline, up to 48' AGL/421' MSL.
Rwy 29, terrain 4' from DER, 496' right of centerline, 370' MSL.
Terrain 37' from DER, 153' right of centerline, 371' MSL.
Fence 98' from DER, 388' left of centerline, 5' AGL/376' MSL.
Pole 139' from DER, 495' left of centerline, 36' AGL/405' MSL.
Fences, tree beginning 220' from DER, 191' right of centerline, up to 8' AGL/378' MSL.

LAKEPORT, CA

LAMPSON FLD (1O2)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 08APR10 (21336) (FAA)

TAKEOFF MINIMUMS:
Rwy 10, std. w/min. climb of 400' per NM to 4500, do not exceed 210K until intercepting the ENI R-073 or 3200-3 for climb in visual conditions.
Rwy 28, NA-Rapidly rising terrain.

DEPARTURE PROCEDURE:
Rwy 10, climbing left turn to 6000 via heading 310° and ENI R-073 to ENI VORTAC before proceeding on course, or for climb in visual conditions: cross Lampson Fld at or above 4400 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 10, vehicle on road 347' from DER, 7' right of centerline, 15' AGL/1394' MSL.
Trees beginning 280' from DER, 201' left of centerline, up to 100' AGL/1479' MSL.
Trees beginning 494' from DER, 219' right of centerline, up to 100' AGL/1479' MSL.

LEMOORE NAS (REEVES FLD) (KNLC)

LEMOORE, CA

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 12JUN25 (25163) (USN)
Rwys 14L/R, 32L/R, hdgs as assigned by ATC.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 12JUN25 (25163) (USN)

DEPARTURE PROCEDURE:
Rwy 14L, climb on hdg between 322° CW to 230° from DER.
Rwy 14R, climb on hdg between 322° CW to 233° from DER.
Rwy 32L, climb on hdg between 284° CW to 142° from DER.
Rwy 32R, climb on hdg between 281° CW to 142° from DER.

SW-2, 09 JUL 2026 to 03 SEP 2026

LINCOLN, CA

LINCOLN RGNL/KARL HARDER FLD (LHM)

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 05FEB15 (15036) (FAA)

Rwys 15,33, headings as assigned by ATC.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 20JUL95 (21140) (FAA)

DEPARTURE PROCEDURE:

Rwy 15, climbing right turn.

Rwy 33, climbing left turn.

All aircraft climb direct MYV VOR/DME, then climb on course.

LITTLE RIVER, CA

LITTLE RIVER (LLR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JUN10 (10154) (FAA)

DEPARTURE PROCEDURE: Use LITTLE RIVER DEPARTURE.

LIVERMORE, CA

LIVERMORE MUNI (LVK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 22JUN17 (17173) (FAA)

DEPARTURE PROCEDURE:

Use LIVERMORE DEPARTURE.

LODI, CA

LODI (1O3)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:

Rwys 12, 30, NA-Environmental.

DEPARTURE PROCEDURE:

Rwy 8, climb heading 076° to 600 then climbing right turn on LIN R-290 to LIN VOR/DME, thence…

Rwy 26, climb heading 256° to 800 climbing right turn on heading 080° to intercept LIN R-290 to LIN VOR/DME, thence…

...continue climb in hold (hold Southeast, right turns, 326° inbound) to MCA or MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 8, hangars, buildings, and vehicles on roadways beginning at DER, left and right of centerline, up to 25' AGL/84' MSL.

Power lines beginning at 4.9 NM from DER, left and right of centerline, up to 160' AGL/220' MSL.

Rwy 26, vehicles on roadway beginning 7' from DER, 265' right of centerline, up to 15' AGL/69' MSL.

Trees beginning 15' from DER, left and right of centerline, up to 100' AGL/154' MSL.

Power lines beginning at 4.6 NM from DER, left and right of centerline, up to 160' AGL/220' MSL.

LOS BANOS, CA

LOS BANOS MUNI (LSN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17DEC09 (09351) (FAA)

DEPARTURE PROCEDURE:

Rwy 14, climb on a heading between 318° CW to 151° from DER, or minimum climb of 320' per NM to 5100 for all other courses.

Rwy 32, climb on a heading between 260° CW to 137° from DER, or minimum climb of 273' per NM to 5200 for all other courses.

TAKEOFF OBSTACLE NOTES:

Rwy 14, multiple trees, poles, buildings beginning 3' from DER, 24' left of centerline, up to 73' AGL/194' MSL.

Multiple trees, poles, buildings beginning 20' from DER, 21' right of centerline, up to 85' AGL/206' MSL.

Rwy 32, multiple trees beginning 220' from DER, 453' right of centerline, up to 40' AGL/160' MSL.

Multiple poles, beginning 1120' from DER, 173' left of centerline, up to 60' AGL/181' MSL.

MADERA, CA

MADERA MUNI (MAE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 31DEC20 (20366) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, std. w/ min. climb of 250' per NM to 2000.

DEPARTURE PROCEDURE:

Rwy 12, climbing left turn heading 080° to intercept V-230.

Rwy 30, climbing right turn heading 110° to intercept V-230.

MAMMOTH LAKES, CA

MAMMOTH YOSEMITE (MMH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05MAR15 (15064) (FAA)

DEPARTURE PROCEDURE:

Use NIKOL DEPARTURE.

MARINA, CA

MARINA MUNI (OAR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 11FEB10 (22139) (FAA)

TAKEOFF MINIMUMS:

Rwy 11, std. w/min. climb of 307' per NM to 4500, or 2000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 11, climb heading 108° and SNS VORTAC R-252 to SNS VORTAC, thence...,
or for climb in visual conditions: cross Marina Muni Airport at or above 2100, then proceed on SNS VORTAC R-261 to SNS VORTAC, thence...

Rwy 29, climb via heading 288° to 1200', then climbing right turn direct SNS VORTAC, thence…
...all aircraft continue climb in SNS holding pattern (west, left turns, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for direction of flight before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 11, windsock 32' from DER, 386' left of centerline, 8' AGL/148' MSL.

Rwy 29, bush 158' from DER, 272' right of centerline, 10' AGL/142' MSL.

MARIPOSA, CA

MARIPOSA-YOSEMITE (MPI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20JAN05 (05020) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, N/A-Obstacles

DEPARTURE PROCEDURE:

Rwy 26, climb via heading 265° to 3000, then climbing left turn to 7000 direct FRA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 26, tree 10' from DER, 313' left of centerline, 100' AGL/2265' MSL.
Tree 1146' from DER, 303' left of centerline, 100' AGL/2298' MSL.

MARYSVILLE, CA

YUBA COUNTY (MYV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 27JUN13 (13178) (FAA)

DEPARTURE PROCEDURE:

All runways, climb direct ILA VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 5, tree 750' from DER, 239' right of centerline, 44' AGL/109' MSL.
Tower 986' from DER, 258' left of centerline, 46' AGL/108' MSL.
Tree 1737' from DER, 191' left of centerline, 70' AGL/134' MSL.
Tree 2792' from DER, 607' left of centerline, 81' AGL/145' MSL.
Rwy 23, railroad 822' from DER, 1' right of centerline, 23' AGL/85' MSL.
Building 903' from DER, 387' right of centerline, 29' AGL/89' MSL.
Rwy 32, pole 1040' from DER, 717' left of centerline, 32' AGL/94' MSL.
Tree 2487' from DER, 586' left of centerline, 75' AGL/134' MSL.
Tree 3135' from DER, 672' right of centerline, 93' AGL/157' MSL.

MERCED, CA

MERCED YOSEMITE RGNL (MCE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5B 10DEC15 (22363) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climbing right turn to 3000 via heading 330° and MOD R-120 to MOD.

Rwy 30, climb to 3000 via heading 300° and MOD R-120 to MOD.

TAKEOFF OBSTACLE NOTES:

Rwy 12, tree 1321' from DER, 785' left of centerline, 50' AGL/190' MSL.

Rwy 30, bush 183' from DER, 490' right of centerline, 20' AGL/161' MSL.
Bush 486' from DER, 604' left of centerline, 20' AGL/170' MSL.
Tree 2457' from DER, 263' left of centerline, 50' AGL/220' MSL.

MODESTO, CA

MODESTO CITY-COUNTY-HARRY SHAM FLD (MOD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 10JAN13 (21168) (FAA)

DEPARTURE PROCEDURE:

Rwys 28L/R, climb on a heading between 256° CW to 109° from DER, or min. climb of 230' per NM to 5000 for all other courses.

TAKEOFF OBSTACLE NOTES:

Rwy 10R, trees beginning 169' from DER, 37' right of centerline, up to 91' AGL/195' MSL.
Sign 57' from DER, 211' right of centerline, 15' AGL/89' MSL.
Sign 16' from DER, 135' left of centerline, 4' AGL/87' MSL.
Trees beginning 823' from DER, 79' left of centerline, up to 89' AGL/148' MSL.
Rwy 10L, trees beginning 15' from DER, 65' right of centerline, up to 68' AGL/172' MSL.
Vehicles on road beginning 178' from DER, 17' left of centerline, up to 15' AGL/96' MSL.
Trees beginning 1413' from DER, 184' left of centerline, up to 63' AGL/126' MSL.
Rwy 28R, vehicles on road beginning 47' from DER, 332' right of centerline, up to 15' AGL/114' MSL.
Pole 754' from DER, 699' right of centerline, 34' AGL/133' MSL.
Building 979' from DER, 697' right of centerline, 29' AGL/128' MSL.
Tree 1390' from DER, 516' right of centerline, 37' AGL/136' MSL.
Trees beginning 2077' from DER, 379' left of centerline, up to 79' AGL/173' MSL.
Rwy 28L, multiple poles, trees, and buildings beginning 128' from DER, 34' left of centerline, up to 102' AGL/196' MSL.
Vehicles on road beginning 448' from DER, 219' left of centerline, up to 15' AGL/112' MSL.
Multiple poles and building beginning 1021' from DER, 350' right of centerline, up to 57' AGL/154' MSL.
Trees beginning 1112' from DER, 20' right of centerline, up to 70' AGL/164' MSL.

MONTAGUE, CA

SISKIYOU COUNTY (SIY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 09JAN14 (14009) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, CAT A,B 2400-2 or std. with a min. climb of 350' per NM to 5500. CAT C,D 4100-2 or std. with a min. climb of 350' per NM to 7400.
Rwy 35, 4000-2 or std. with a min. climb of 300' per NM to 7000.

DEPARTURE PROCEDURE:

Rwy 17, climb direct MOG NDB. Continue climb to 10000 in MOG holding pattern (hold N, right turns, 176° inbound).
Rwy 35, climb to 7000 via runway heading and 356° bearing from MOG NDB, then climbing right turn to 10000 direct MOG NDB.
All aircraft depart MOG NDB at or above MEA for route of flight.

MONTEREY, CA

MONTEREY RGNL (MRY)

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 23JUN16 (16175) (FAA)

Rwy 10L, heading as assigned by ATC; requires min. climb of 360' per NM to 2900.
Rwy 10R, heading as assigned by ATC; requires min. climb of 370' per NM to 2800.
Rwy 28L, heading as assigned by ATC; requires min. climb of 310' per NM to 1100.
Rwy 28R, heading as assigned by ATC; requires min. climb of 250' per NM to 1100.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 10DEC15 (15344) (FAA)

TAKEOFF MINIMUMS:

Rwy 10L, std. w/min. climb of 449' per NM to 1800, or 1700-2½ for climb in visual conditions.
Rwy 10R, std. w/min. climb of 459' per NM to 1800, or 1700-2½ for climb in visual conditions.
Rwy 28L, std. w/min. climb of 218' per NM to 3300, or 1700-2½ for climb in visual conditions.
Rwy 28R, std. w/min. climb of 205' per NM to 3300, or 1700-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 10L, climbing left turn heading 045.00 and SNS VORTAC R-225 to SNS VORTAC, climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.
Rwy 10R, climbing left turn heading 045° and SNS VORTAC R-225 to SNS VORTAC, climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.
Rwy 28L, climbing right turn heading 045° and SNS VORTAC R-260 to SNS VORTAC, climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.
Rwy 28R, climbing right turn heading 045.00 and SNS VORTAC R-260 to SNS VORTAC, climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.

VCOA:

Obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Monterey RGNL at or above 1800, then on SNS VORTAC R-231 to SNS VORTAC. Climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.

CON'T

MONTEREY, CA (CON'T)

MONTEREY RGNL (MRY) (CON'T)

TAKEOFF OBSTACLE NOTES:

Rwy 10L, NAVAID 556' from DER, 217' right of centerline, 20' AGL/272' MSL.
Bushes beginning 1.6 NM from DER, 1188' left of centerline up to 9' AGL/729' MSL.
Trees beginning 1.7 NM from DER , 923' left of centerline up to 102' AGL/764' MSL.
Trees beginning 1.6 NM from DER, 1993' right of centerline up to 90' AGL/923' MSL.
Bushes beginning 1.9 NM from DER, 2497' right of centerline up to 9' AGL/781' MSL.
Tower 2 NM from DER 3305' left of centerline, 27' AGL/767' MSL.
Rwy 10R, ground 11' from DER, 358' left of centerline 258' MSL.
Tree 230' from DER 388' left of centerline 21' AGL/265' MSL.
NAVAID 240' from DER, 282' left of centerline, 20' AGL/272' MSL.
Bushes beginning 1.5 NM from DER, 2381' left of centerline, up to 9' AGL/648' MSL.
Trees beginning 1.7 NM from DER, 388' left of centerline up to 76' AGL/629' MSL.
Bushes beginning 1.8 NM from DER, 2005' right of centerline up to 9' AGL/741' MSL.
Trees beginning 1.5 NM from DER, 1749' right of centerline up to 90' AGL/843' MSL.
Rwy 28L, terrain abeam DER, 198' left of centerline, up to 163' MSL.
Trees beginning 797' from DER, 678' left of centerline, up to 83' AGL/228' MSL.
Tree 1008' from DER, 616' left of centerline, 100' AGL/195' MSL.
Pole 1128' from DER, 716' left of centerline, 54' AGL/195' MSL.
Tree 1372' from DER, 755' left of centerline, 93' AGL/227' MSL.

MOUNTAIN VIEW, CA

MOFFETT FEDERAL AIRFIELD (NUQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 22JAN26 (26022) (FAA)

TAKEOFF MINIMUMS:

Rwys 14L/R, std w/min climb of 550'/NM to 4000.
Rwy 32L, std w/min climb of 248'/NM to 4700.
Rwy 32R, std w/min climb of 247'/NM to 4700.

DEPARTURE PROCEDURE:

Rwys 14L/R, climbing right turn direct OSI VOR/DME at or above MEA for direction of flight before proceeding on course.
Rwys 32L/R, climb on heading 322° to 700 then climbing right turn heading 140° to 4700 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14L, terrain 34' from DER, 338' right of centerline, 34' MSL.
Sign 102' from DER, 320' right of centerline, 3' AGL/36' MSL.
Vehicle on road 702' from DER, 686' right of centerline, 54' MSL.
Vehicles on road, railroad beginning 737' from DER, 499' right of centerline, up to 55' MSL.
Vehicles on road, railroad beginning 899' from DER, 502' right of centerline, up to 56' MSL.
Vehicles on road, pole, railroad beginning 914' from DER, 398' right of centerline, up to 57' MSL.
Trees, railroad, vehicles on road beginning 1007' from DER, 233' right of centerline, up to 31' AGL/70' MSL.
Trees beginning 1193' from DER, 426' right of centerline, up to 31' AGL/71' MSL.
Trees beginning 1331' from DER, 155' right of centerline, up to 53' AGL/93' MSL.
Tree 1675' from DER, 81' left of centerline, 36' AGL/74' MSL.
Tree 2052' from DER, 1015' right of centerline, 115' MSL.
Trees beginning 2062' from DER, 635' right of centerline, up to 72' AGL/116' MSL.
Trees beginning 2288' from DER, 180' left of centerline, up to 112' MSL.
Trees beginning 2671' from DER, 67' right of centerline, up to 88' AGL/136' MSL.
Trees beginning 2945' from DER, 214' right of centerline, up to 137' MSL.
Trees beginning 3212' from DER, 225' left of centerline, up to 132' MSL.
Trees beginning 3506' from DER, 306' left of centerline, up to 87' AGL/134' MSL.
Trees beginning 3539' from DER, 104' left of centerline, up to 132' AGL/170' MSL.
Tree 3632' from DER, 274' right of centerline, 90' AGL/139' MSL.
Tree 3639' from DER, 1036' right of centerline, 96' AGL/151' MSL.
Trees beginning 3642' from DER, 219' right of centerline, up to 98' AGL/152' MSL.
Trees beginning 3752' from DER, 461' right of centerline, up to 112' AGL/164' MSL.
Trees beginning 4050' from DER, 56' right of centerline, up to 116' AGL/169' MSL.
Trees beginning 4121' from DER, 94' left of centerline, up to 128' AGL/175' MSL.
Rwy 14R, pole 5' from DER, 77' right of centerline, 1' AGL/37' MSL.
Pole 6' from DER, 77' left of centerline, 1' AGL/37' MSL.
Fence 190' from DER, 488' right of centerline, 8' AGL/45' MSL.
Vehicle on road 209' from DER, 521' right of centerline, 53' MSL.
Vehicles on road beginning 265' from DER, 361' right of centerline, up to 55' MSL.
Vehicle on road 395' from DER, 357' right of centerline, 56' MSL.
Trees beginning 398' from DER, 497' right of centerline, up to 27' AGL/67' MSL.
Trees, vehicles on road, railroad beginning 419' from DER, 166' right of centerline, up to 94' MSL.
Trees, vehicles on road, railroad beginning 556' from DER, 2' right of centerline, up to 80' AGL/119' MSL.
Vehicles on road beginning 648' from DER, 25' left of centerline, up to 54' MSL.
Trees, vehicles on road, railroad beginning 662' from DER, 12' right of centerline, up to 83' AGL/123' MSL.
Railroad 788' from DER, 122' left of centerline, 56' MSL.
Railroad 958' from DER, 342' left of centerline, 60' MSL.
Tree 1029' from DER, 33' left of centerline, 24' AGL/63' MSL.
Trees beginning 1074' from DER, 20' left of centerline, up to 27' AGL/67' MSL.
Trees beginning 1137' from DER, 198' left of centerline, up to 29' AGL/68' MSL.
CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

MOUNTAIN VIEW, CA (CON'T)

MOFFETT FEDERAL AIRFIELD (NUQ) (CON'T)

Rwy 14R (CON'T), trees beginning 1271' from DER, 282' left of centerline, up to 35' AGL/72' MSL.
Trees beginning 1674' from DER, 831' right of centerline, up to 134' MSL.
Trees beginning 1711' from DER, 10' right of centerline, up to 94' AGL/138' MSL.
Tree 1917' from DER, 243' left of centerline, 43' AGL/84' MSL.
Tree 2558' from DER, 809' left of centerline, 101' MSL.
Trees beginning 2559' from DER, 557' left of centerline, up to 68' AGL/110' MSL.
Trees beginning 2632' from DER, 448' left of centerline, up to 69' AGL/112' MSL.
Tree 2966' from DER, 363' left of centerline, 67' AGL/113' MSL.
Tree 2993' from DER, 202' left of centerline, 69' AGL/116' MSL.
Trees beginning 3021' from DER, 27' left of centerline, up to 72' AGL/119' MSL.
Trees beginning 3285' from DER, 48' left of centerline, up to 79' AGL/128' MSL.
Trees beginning 3325' from DER, 138' left of centerline, up to 84' AGL/133' MSL.
Trees beginning 3383' from DER, 233' left of centerline, up to 87' AGL/134' MSL.
Tree 3509' from DER, 349' left of centerline, 90' AGL/139' MSL.
Tree 3516' from DER, 411' right of centerline, 96' AGL/151' MSL.
Trees beginning 3519' from DER, 288' right of centerline, up to 98' AGL/152' MSL.
Trees beginning 3530' from DER, 379' left of centerline, up to 92' AGL/140' MSL.
Trees beginning 3629' from DER, 10' right of centerline, up to 112' AGL/164' MSL.
Trees beginning 3734' from DER, 729' left of centerline, up to 112' AGL/158' MSL.
Trees beginning 3870' from DER, 88' left of centerline, up to 113' AGL/159' MSL.
Tree 3927' from DER, 108' left of centerline, 116' AGL/169' MSL.
Trees beginning 3998' from DER, 300' left of centerline, up to 128' AGL/175' MSL.
Rwy 32L, pole 1' from DER, 76' left of centerline, 1' AGL/5' MSL.
Pole 1' from DER, 76' right of centerline, 1' AGL/5' MSL.
Sign 132' from DER, 446' right of centerline, 5' AGL/8' MSL.
NAVAID 449' from DER, 315' right of centerline, 19' AGL/21' MSL.
Rwy 32R, pole 1' from DER, 77' right of centerline, 1' AGL/7' MSL.
Vehicles on road, tree, fence beginning 5' from DER, 92' left of centerline, up to 19' MSL.
Vehicle on road 108' from DER, 414' right of centerline, 18' MSL.
Vehicles on road, fence beginning 109' from DER, 158' right of centerline, up to 19' MSL.
Vehicles on road beginning 208' from DER, 306' right of centerline, up to 20' MSL.

NAPA, CA

NAPA COUNTY (APC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 03JUN10 (10154) (FAA)

DEPARTURE PROCEDURE:
Use NAPAA DEPARTURE.

NOVATO, CA

GNOSS FLD (DVO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 02MAY13 (21224) (FAA)

TAKEOFF MINIMUMS:
Rwy 13, 400-2¼ or std. w/min. climb of 580' per NM to 500.
Rwy 31, 600-2½ w/min. climb of 285' per NM to 1500 or std. w/min. climb of 679' per NM to 800 or 2000-2½ for climb in visual conditions...
DEPARTURE PROCEDURE:
Rwy 13, climb heading 132° to 600 then turn left direct SGD VORTAC before proceeding on course.
Rwy 31, climbing right turn direct SGD VORTAC before proceeding on course.
… For climb in visual conditions, cross Gnoss Fid at or above 1900' MSL then proceed direct SGD VORTAC before proceeding on course. When executing VCOA, notify ATC prior to departure.
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 2633' from DER, 627' left of centerline, up to 50' AGL/346' MSL.
Trees beginning 3630' from DER, 1274' right of centerline, up to 50' AGL/369' MSL.
Power line 1.7 NM from DER, 1980' left of centerline, 121' AGL/360' MSL.
Rwy 31, trees beginning 3237' from DER, 321' left of centerline, up to 50' AGL/569' MSL.

OAKDALE, CA

OAKDALE (O27)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10NOV16 (16315) (FAA)

DEPARTURE PROCEDURE:
Rwy 10, climbing left turn via heading 020° and LIN VOR/DME R-124 to WRAPS INT/LIN 16.66 DME. Climb in WRAPS holding pattern (Northwest, right turn, 124° inbound) to cross WRAPS INT at or above MEA for direction of flight.
Rwy 28, climb via heading 276° and LIN VOR/DME R-146 to LIN VOR/DME to cross LIN VOR/DME at or above MEA for direction of flight.
TAKEOFF OBSTACLE NOTES:
Rwy 10, terrain beginning 388' from DER, up to 279' MSL.
Rwy 28, power line 3447' from DER, 407' right of centerline, 115' AGL/329' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

OAKLAND, CA

OAKLAND SAN FRANCISCO BAY (OAK)

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 16OCT14 (14289) (FAA)

Rwy 10L, headings as assigned by ATC; requires min climb of 340' per NM to 2300.
Rwy 10R, headings as assigned by ATC; requires min climb of 330' per NM to 2300.
Rwys 12, 15, headings as assigned by ATC.
Rwys 28L/R, 30, headings as assigned by ATC; requires min climb of 240' per NM to 2400.
Rwy 33, headings as assigned by ATC; requires min climb of 210' per NM to 2400.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 17OCT13 (25275) (FAA)

DEPARTURE PROCEDURE:

Rwys 10L/R, 12, 15, 30, climbing right turn to intercept V107-301, thence …
Rwys 28L/R, climb heading 278° to intercept V107-301, thence …
Rwy 33, climbing left turn to intercept V107-301, thence...
…to cross COMMO INT at or above 4000, continue climb-in-hold (hold E, right turns, 288° inbound) to 4000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 10L, building, hanger and road beginning 225' from DER, 554' left of centerline, up to 37' AGL/42' MSL.
Trees beginning 1644' from DER, 309' left of centerline, up to 59' AGL/67' MSL.
Rwy 10R, runway lights 9' from DER, 26' left and right of centerline, 1' AGL/9' MSL.
Sign 63' from DER, 251' left of centerline, 4' AGL/10' MSL.
Signs, fence and poles beginning 361' from DER, 540' right of centerline up to 35' AGL/44' MSL.
Signs and trees beginning 1160' from DER, 177' right of centerline, up to 36' AGL/50' MSL.
Rwy 12, runway end and ALS lights beginning 11' from DER, 9' left and right of centerline, 1' AGL/10' MSL.
Rwy 15, ATCT 3613' from DER, 1017' left of centerline, 88' AGL/101' MSL.
Obstruction light on WSK 813' from DER, 577' right of centerline, 24' AGL/27' MSL.
Rwy 28L, rising terrain beginning 8' from DER, crossing centerline, up to 9' MSL.
Multiple trees beginning 105' from DER, 35' left of centerline, up to 64' AGL/80' MSL.
Traffic lights and poles beginning 895' from DER, 164' left of centerline, up to 29' AGL/37' MSL.
Substation 1593' from DER, 871' left of centerline, 37' AGL/53' MSL.
Fence 95' from DER, 410' left of centerline, 6' AGL/13' MSL.
Multiple trees beginning 994' from DER, 55' right of centerline, up to 91' AGL/96' MSL.
Rwy 28R, multiple trees beginning 1745' from DER, 23' left of centerline, up to 91' AGL/96' MSL.
Multiple trees beginning 2053' from DER, 88' right of centerline, up to 109' AGL/111' MSL.
Rwy 30, light pole 582' from DER, 483' left of centerline, 16' AGL/26' MSL.
Rwy 33, multiple trees, buildings and poles beginning 256' from DER, 497' left of centerline, up to 41' AGL/45' MSL.
Multiple trees, buildings, poles and towers beginning 762' from DER, 267' right of centerline, up to 39' AGL/51' MSL.

ORLAND, CA

HAIGH FLD (O37)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 21MAY20 (21336) (FAA)

DEPARTURE PROCEDURE:

Rwy 15, climb to 1000 then climbing left turn heading 100° to intercept RBL VORTAC R-140 to 5000 before proceeding on course.
Rwy 33, climb to 1000, then climbing right turn heading 020° to intercept RBL VORTAC R-140 to 5000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 15, fence 6' from DER, 383' right of centerline, 6' AGL/214' MSL.
Fence 15' from DER, 397' left of centerline, 6' AGL/214' MSL.
Pole 88' from DER, 443' left of centerline, 29' AGL/237' MSL.
Pole 1198' from DER, 661' right of centerline, 35' AGL/247' MSL.
Pole beginning 1262' from DER, 173' right of centerline, up to 45' AGL/258' MSL.
Tree 1370' from DER, 824' left of centerline, 270' MSL.
Tree 1464' from DER, 390' right of centerline, 273' MSL.
Trees beginning 1480' from DER, 399' right of centerline, up to 313' MSL.
Rwy 33, tree, traverse_way beginning 78' from DER, 224' left of centerline, up to 237' MSL.
Pole beginning 358' from DER, 298' right of centerline, up to 24' AGL/241' MSL.
Pole 955' from DER, 256' left of centerline, 31' AGL/249' MSL.
Tree 1202' from DER, 791' left of centerline, 281' MSL.
Tree 1807' from DER, 595' left of centerline, 308' MSL.
Tree 2388' from DER, 383' right of centerline, 324' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

OROVILLE, CA

OROVILLE MUNI (OVE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 22JUN17 (17173) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, std. w/ min. climb of 280' per NM to 1500, or 1000-2½ for VCOA.

Rwy 31, 300-1⅝ or std. w/ min. climb of 245' per NM to 600.

DEPARTURE PROCEDURE:

Rwy 2, 31, climbing left turn to 5000 on heading 200° direct ILA VORTAC before proceeding on course.

Rwys 13, 20, climbing right turn to 5000 on heading 210° direct ILA VORTAC before proceeding on course.

VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Oroville Municipal airport south-westbound at or above 1000, then direct ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 2, ground 170' from DER, 475' right of centerline, 189' MSL.
Ground 191' from DER, 489' right of centerline, 190' MSL.
Tree 511' from DER, 600' left of centerline, 231' MSL.
Tree 513' from DER, 603' left of centerline, 236' MSL.
NAVAID 1143' from DER, 348' right of centerline, 215' MSL.
Pole 1364' from DER, 740' right of centerline, 255' MSL.
Poles beginning 1365' from DER, 537' right of centerline, up to 256' MSL.

Rwy 13, poles beginning 128' from DER, 292' right of centerline, up to 29' AGL/203' MSL.
Vertical structure 177' from DER, 493' left of centerline, 184' MSL.
Vehicles on road 210' from DER, 515' left of centerline, 189' MSL.
Tree 312' from DER, 554' left of centerline, 205' MSL.

Rwy 20, vehicles on road 819' from DER, 376' left of centerline, 203' MSL.
Poles beginning 902' from DER, 655' right of centerline, up to 36' AGL/217' MSL.

Rwy 31, sign 32' from DER, 325' left of centerline, 195' MSL.
Ground beginning 109' from DER, 410' right of centerline, up to 200' MSL.
Trees beginning 641' from DER, 621' left of centerline, up to 244' MSL.
Tree 1380' from DER, 466' left of centerline, 264' MSL.
T-L tower 1.3 NM from DER, 1826' right of centerline, 144' AGL/444' MSL.

PALO ALTO, CA

PALO ALTO (PAO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-B 15OCT15 (15288) (FAA)

DEPARTURE PROCEDURE:

Rwy 13, turn left.

Rwy 31, turn right.

All aircraft climb direct SJC VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 13, building with ship mast 1325' from DER, 450' left of centerline, 60' AGL/67' MSL.

PETALUMA, CA

PETALUMA MUNI (O69)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 22JAN26 (26022) (FAA)

DEPARTURE PROCEDURE:

Use SCAGGS ISLAND DEPARTURE.

PLACERVILLE, CA

PLACERVILLE (PVF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 15NOV12 (12320) (FAA)

TAKEOFF MINIMUMS:

Rwy 5, NA-obstacles.

DEPARTURE PROCEDURE:

Rwy 23, climb to 5000 on HNW R-226 then climbing right turn on HNW R-276 to HNW VOR/DME. Aircraft departing HNW VOR/DME R-180 CW R-303 climb on course; all others climb in HNW VOR/DME holding pattern (hold SW, right turns, 048° inbound) to cross HNW VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 23, hangar 20' from DER, 340' right of centerline, 27' AGL/2586' MSL.

PORTERVILLE, CA

PORTERVILLE MUNI (PTV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 06DEC18 (18340) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, std. w/min. climb of 220' per NM to 600.

DEPARTURE PROCEDURE:

Rwy 12, climbing right turn thence . . .

Rwy 30, climbing left turn thence . . .

...climb direct TTE VOR/DME. Aircraft departing TTE VOR/DME R-146 CW R-330 climb on course. All other aircraft climb in TTE VOR/DME holding pattern (hold northwest, right turn, 143° inbound) to cross TTE R-331 CW R-060, 8600; R-061 CW R -145, 7000.

TAKEOFF OBSTACLE NOTES:

Rwy 12, tree 618' from DER, 241' right of centerline, 460' MSL.
Trees beginning 776' from DER, 193' left of centerline, up to 467' MSL.
Pole 906' from DER, 588' left of centerline, 43' AGL/491' MSL.
Rwy 30, fence 176' from DER, 499' right of centerline, 6' AGL/436' MSL.

RED BLUFF, CA

RED BLUFF MUNI (RBL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 10FEB11 (11041) (FAA)

DEPARTURE PROCEDURE:

Rwy 15, climb direct RBL VORTAC, thence...

Rwy 33, climbing right turn direct RBL VORTAC, thence...

...continue climb in RBL holding pattern (S, right turns, 341° inbound) to cross RBL VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 15, WSK 5' from DER, 258' right of centerline, 18' AGL/361' MSL.
Tree 2065' from DER, 879' left of centerline, 100' AGL/449' MSL.
Rwy 33, trees beginning 468' from DER, 563' left of centerline, up to 54' AGL/387' MSL.
Trees beginning 587' from DER, 493' right of centerline, up to 73' AGL/393' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

REDDING, CA

BENTON FLD (O85)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05OCT23 (23278) (FAA)

DEPARTURE PROCEDURE:

Use REDDING DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 16, trees beginning 75' from DER, 319' left of centerline, up to 30' AGL/732' MSL.
Vehicle on road 273' from DER, 537' right of centerline, 730' MSL.
Tree 771' from DER, 613' right of centerline, 747' MSL.
Tree 1105' from DER, 324' right of centerline, 755' MSL.
Trees beginning 1207' from DER, 162' right of centerline, up to 51' AGL/762' MSL.
Rwy 34, building 2' from DER, 455' left of centerline, 724' MSL.
Pole, sign beginning 63' from DER, 179' right of centerline, up to 749' MSL.
NAVAID, trees, pole beginning 84' from DER, 260' left of centerline, up to 748' MSL.
Trees, fence, poles beginning 116' from DER, 182' right of centerline, up to 46' AGL/765' MSL.
Trees, pole beginning 373' from DER, 224' left of centerline, up to 57' AGL/753' MSL.
Trees beginning 623' from DER, 440' right of centerline, up to 775' MSL.
Pole, trees beginning 750' from DER, 19' left of centerline, up to 754' MSL.
Trees beginning 1766' from DER, 870' left of centerline, up to 779' MSL.

REDDING, CA

REDDING RGNL (RDD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5D 14MAY26 (26134) (FAA)

DEPARTURE PROCEDURE:

Rwy 13, climb on heading 126° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course.
Rwy 17, climbing left turn heading 114° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course.
Rwys 31, 35, climbing right turn heading 114° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 13, trees beginning 45' from DER, 359' left of centerline, up to 23' AGL/515' MSL.
Trees, fence, general utility, transmission line beginning 281' from DER, 314' left of centerline, up to 49' AGL/542' MSL.
Transmission line 1920' from DER, 677' left of centerline, 60' AGL/543' MSL.
Tree 3470' from DER, 541' left of centerline, 109' AGL/590' MSL.
Rwy 17, tree 152' from DER, 463' right of centerline, 12' AGL/495' MSL.
Tree 347' from DER, 584' right of centerline, 46' AGL/527' MSL.
Rwy 31, terrain 27' from DER, 249' right of centerline, 502' MSL.
Aircraft on taxiway, pole, and trees beginning 32' from DER, 68' right of centerline, up to 44' AGL/544' MSL.
Aircraft on taxiway, pole, and building beginning 223' from DER, 13' left of centerline, up to 44' AGL/544' MSL.
CON'T

REDDING, CA (CON'T)

REDDING RGNL (RDD) (CON'T)

Rwy 31 (CON'T), tree 1410' from DER, 211' left of centerline, 44' AGL/545' MSL.
Tree 1556' from DER, 417' right of centerline, 57' AGL/558' MSL.
Building and trees beginning 1584' from DER, 267' right of centerline, up to 60' AGL/563' MSL.
Tree 1588' from DER, 55' left of centerline, 50' AGL/553' MSL.
Trees beginning 1672' from DER, 431' right of centerline, up to 69' AGL/572' MSL.
Trees beginning 1793' from DER, 4' right of centerline, up to 74' AGL/576' MSL.
Trees beginning 1794' from DER, 78' left of centerline, up to 60' AGL/561' MSL.
Trees beginning 1882' from DER, 95' right of centerline, up to 74' AGL/577' MSL.
Trees beginning 2093' from DER, 227' right of centerline, up to 82' AGL/583' MSL.
Trees, building beginning 2340' from DER, 399' right of centerline, up to 99' AGL/600' MSL.
Tree 2788' from DER, 984' left of centerline, 113' AGL/613' MSL.
Tree 3256' from DER, 912' right of centerline, 94' AGL/601' MSL.
Rwy 35, electrical system 37' from DER, 130' right of centerline, 2' AGL/506' MSL.
Sign 38' from DER, 125' right of centerline, 4' AGL/508' MSL.
Sign 39' from DER, 123' left of centerline, 4' AGL/508' MSL.
Signs beginning 98' from DER, 252' left of centerline, up to 5' AGL/510' MSL.
Tree 2322' from DER, 1015' left of centerline, 67' AGL/576' MSL.
Tree 2386' from DER, 934' left of centerline, 74' AGL/583' MSL.
Tree 2455' from DER, 1120' left of centerline, 83' AGL/593' MSL.
Trees beginning 2662' from DER, 767' left of centerline, up to 83' AGL/594' MSL.
Trees beginning 2817' from DER, 479' left of centerline, up to 86' AGL/596' MSL.
Trees beginning 2906' from DER, 828' left of centerline, up to 87' AGL/598' MSL.
Trees beginning 2967' from DER, 794' left of centerline, up to 89' AGL/600' MSL.
Trees beginning 3137' from DER, 867' left of centerline, up to 96' AGL/608' MSL.
Trees beginning 3188' from DER, 792' left of centerline, up to 103' AGL/615' MSL.
Tower 3312' from DER, 1032' left of centerline, 108' AGL/622' MSL.
Antenna 3312' from DER, 1031' left of centerline, 105' AGL/619' MSL.

REEDLEY, CA

REEDLEY MUNI (O32)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JAN19 (19003) (FAA)

DEPARTURE PROCEDURE:

Rwy 16, climb on a heading between 132° CW to 323° from DER.
Rwy 34, climb on a heading between 156° CW to 320° from DER.

TAKEOFF OBSTACLE NOTES:

Rwy 16, vehicles on road, terrain, building and vegetation beginning 26' from DER, 309' left of centerline, up to 15' AGL/402' MSL.
Tree 1551' from DER, 778' right of centerline, 431' MSL.
Tree 1648' from DER, 893' left of centerline, 461' MSL.
Tree 1737' from DER, 210' right of centerline, 434' MSL.
Tree 2010' from DER, 189' left of centerline, 453' MSL.
Trees beginning 2033' from DER, 615' left of centerline, up to 482' MSL.
Tree 2894' from DER, 630' left of centerline, 483' MSL.
Rwy 34, tree 116' from DER, 376' right of centerline, 403' MSL.
Tree 166' from DER, 499' right of centerline, 406' MSL.
Vehicles on road and tree beginning 289' from DER, 329' right of centerline, up to 407' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

RIO VISTA, CA

RIO VISTA MUNI (O88)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05DEC19 (19339) (FAA)

DEPARTURE PROCEDURE:

Rwy 7, climbing left turn direct SAC VORTAC. Continue climb in SAC VORTAC holding pattern (hold, south, right turn, 016° inbound) to cross SAC VORTAC at or above MEA for route of flight.
Rwy 15, climb to 800 then climbing left turn direct SAC VORTAC. Continue climb in SAC VORTAC holding pattern (hold, south, right turn, 016° inbound) to cross SAC VORTAC at or above MEA for route of flight.
Rwy 25, climbing right turn direct SAC VORTAC. Continue climb in SAC VORTAC holding pattern (hold, south, right turn, 016° inbound) to cross SAC VORTAC at or above MEA for route of flight.
Rwy 33, climbing right turn direct SAC VORTAC. Continue climb in SAC VORTAC holding pattern (hold, south, right turn, 016° inbound) to cross SAC VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 7, lighting 10' from DER, 107' right of centerline, 2' AGL/24' MSL.
Terrain 111' from DER, 491' left of centerline, 27' MSL.
Rwy 15, pole 9' from DER, 19' left of centerline, 2' AGL/22' MSL.
Terrain 42' from DER, 270' right of centerline, 23' MSL.
Pole, vehicles on road, building beginning 112' from DER, 438' right of centerline, up to 33' AGL/55' MSL.
Poles, vehicles on road beginning 292' from DER, 25' left of centerline, up to 52' MSL.
Wind indicator, tree, vehicles on road, buildings, pole beginning 345' from DER, 1' right of centerline, up to 35' AGL/58' MSL.
Pole 1462' from DER, 99' left of centerline, 33' AGL/60' MSL.

CON'T

RIO VISTA, CA (CON'T)

RIO VISTA MUNI (O88) (CON'T)

Rwy 25, terrain, lighting beginning 0' from DER, 79' left of centerline, up to 26' MSL.
Poles, vehicles on road, trees beginning 287' from DER, 186' left of centerline, up to 54' MSL.
Tree 940' from DER, 201' left of centerline, 26' AGL/55' MSL.
Trees beginning 957' from DER, 3' left of centerline, up to 27' AGL/56' MSL.
Pole 1015' from DER, 308' right of centerline, 47' MSL.
Rwy 33, lighting 10' from DER, 100' right of centerline, 3' AGL/24' MSL.
Trees beginning 124' from DER, 252' right of centerline, up to 24' AGL/30' MSL.
Pole 1601' from DER, 846' left of centerline, 43' AGL/66' MSL.
Pole 1639' from DER, 891' left of centerline, 44' AGL/68' MSL.
Trees, building beginning 1912' from DER, 792' left of centerline, up to 66' AGL/92' MSL

SACRAMENTO, CA

SACRAMENTO EXEC (SAC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 20JUN19 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 2, multiple trees 1128' from DER, 108' left of centerline, up to 76' AGL/96' MSL.
Antenna 1376' from DER, 663' left of centerline, 51' AGL/71' MSL.
Trees 1858' from DER, 137' right of centerline, 73' AGL/93' MSL.
Rwy 12, multiple trees 518' from DER, 26' left of centerline, up to 83' AGL/98' MSL.
Light pole 507' from DER, 336' left of centerline, 37' AGL/52' MSL.
Transmission pole 3971' from DER, 647' left of centerline, 130' AGL/154' MSL.
Multiple trees 475' from DER, 476' right of centerline up to 97' AGL/112' MSL.
Light poles 711' from DER, 241' right of centerline, 36' AGL/51' MSL.
Rwy 20, multiple trees beginning 850' from DER, 626' left of centerline, up to 92' AGL/107' MSL.
Multiple trees beginning 714' from DER, 515' right of centerline, up to 66' AGL/81' MSL.
Rwy 30, obstruction light on hangers 460' from DER, 360' right of centerline, 25' AGL/43' MSL.
Multiple trees beginning 631' from DER, 195' right of centerline, up to 56' AGL/74' MSL.
Multiple trees beginning 1331' from DER, 247' left of centerline, up to 90'/110' MSL.
Antenna on building 1543' from DER, 442' left of centerline, 47' AGL/67' MSL.

SACRAMENTO INTL (SMF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 21MAY20 (20142) (FAA)

DEPARTURE PROCEDURE:
Rwy 17L, climb heading 168° to 700 before turning east.

TAKEOFF OBSTACLE NOTES:
Rwy 17L, vehicles on road, 225' from DER, crossing runway centerline, 10' AGL/31' MSL
Rwy 35L, tree 3656' from DER, 1296' left of centerline, 98' AGL/123' MSL.
Rwy 35R, pole 1786' from DER, 945' right of centerline, 46' AGL/73' MSL.

SACRAMENTO MATHER (MHR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 06JAN94 (94006) (FAA)

DEPARTURE PROCEDURE:
Rwys 4L,4R, climbing right turn direct SAC VORTAC.
Rwys 22L,22R climb direct SAC VORTAC.

SALINAS, CA

SALINAS MUNI (SNS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 19MAY22 (22139) (FAA)

DEPARTURE PROCEDURE:
Rwy 8, climbing right turn to intercept SNS VORTAC R-124 to 5500 before proceeding on course.
Rwy 13, climbing left turn to intercept SNS VORTAC R-124 to 5500 before proceeding on course.
Rwy 26, climbing right turn to intercept SNS VORTAC R-264 to 5000 before proceeding on course.
Rwy 31, climbing left turn to intercept SNS VORTAC R-264 to 5000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 8, fence 195' from DER, 409' left of centerline, 5' AGL/92' MSL.
Transmission line 1801' from DER, 761' left of centerline, 90' AGL/171' MSL.
Rwy 26, pole, vehicle on road, tree beginning 110' from DER, 266' left of centerline, up to 34' AGL/98' MSL.
Pole, vehicle on road beginning 137' from DER, 281' right of centerline, up to 33' AGL/100' MSL.
Poles beginning 910' from DER, 233' right of centerline, up to 35' AGL/102' MSL.
Tree 1646' from DER, 351' left of centerline, 119' MSL.
Tree 1909' from DER, 73' right of centerline, 121' MSL.
Building 1943' from DER, 435' left of centerline, 60' AGL/128' MSL.
Tower 2769' from DER, 32' right of centerline, 81' AGL/145' MSL.
Transmission line 2974' from DER, 739' right of centerline, 93' AGL/150' MSL.
Tower 3991' from DER, 424' left of centerline, 116' AGL/179' MSL.
CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

SALINAS, CA (CON'T)

SALINAS MUNI (SNS) (CON'T)

Rwy 31, trees, building beginning 171' from DER, 390' right of centerline, up to 133' MSL.
Vehicle on road 206' from DER, 201' left of centerline, 97' MSL.
Tree 282' from DER, 436' left of centerline, 120' MSL.
Trees, pole, transmission line beginning 1043' from DER, 5' left of centerline, up to 172' MSL.
Fence, transmission line, poles beginning 1141' from DER, 202' right of centerline, up to 60' AGL/145' MSL.

SAN ANDREAS, CA

CALAVERAS COUNTY/MAURY RASMUSSEN FLD (CPU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10NOV16 (24305) (FAA)

TAKEOFF MINIMUMS:
Rwy 13, 1800-5 or std w/min climb of 300' per NM to 3700.
DEPARTURE PROCEDURE:
Rwy 13, climb runway heading to 3100, then climbing right turn via LIN R-085 to LIN VOR/DME.
Rwy 31, climb via heading 311° to 3000, then climbing left turn via Linden (LIN) VOR/DME R-029 to LIN VOR/DME.
TAKEOFF OBSTACLE NOTES:
Rwy 13, windsock 4' from DER, 129' right of centerline, 14' AGL/1341' MSL.
Lights 4' from DER, 68' right of centerline, up to 2' AGL/1330' MSL.
Bush 24' from DER, 140' right of centerline, 3' AGL/1331' MSL.
Tree 43' from DER, 287' right of centerline, up to 8' AGL/ 1336' MSL.
Bush 26' from DER, 96' left of centerline, up to 1' AGL/1329' MSL.
Rwy 31, tree 19' from DER, 242' left of centerline, up to 30' AGL/1335' MSL.
Trees 220' from DER, 375' right of centerline, up to 40' AGL/1345' MSL.
Pole 667' from DER, 653' left of centerline, 23' AGL/1326' MSL.
Trees 1010' from DER, 651' right of centerline, up to 46' AGL/1351' MSL.

SAN CARLOS, CA

SAN CARLOS (SQL)

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 20FEB25 (25051) (FAA)

Rwy 12, heading as assigned by ATC; requires min climb of 470'/NM to 3400.
Rwy 30, heading as assigned by ATC; requires min climb of 288'/NM to 2100.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10AUG23 (23222) (FAA)

TAKEOFF MINIMUMS:
Rwy 12, 300-1⅜ or std w/min climb of 240'/NM to 300.
Rwy 30, 300-1⅜ or std w/min climb of 290'/NM to 400.
DEPARTURE PROCEDURE:
Rwy 12, climb on heading 123° to 500, then climbing left turn direct SJC VOR/DME before proceeding on course.
Rwy 30, climb on heading 303° to 600, then climbing right turn direct SJC VOR/DME before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 12, pole 9' from DER, 267' right of centerline, 25' MSL.
Tree, pole, building beginning 9' from DER, 266' right of centerline, up to 51' AGL/57' MSL.
Dam, terrain, light poles beginning 109' from DER, 58' left of centerline, up to 3' AGL/12' MSL.
Building, pole beginning 295' from DER, 266' right of centerline, up to 59' MSL.
Buildings, poles, electrical system, tree, sign beginning 472' from DER, 267' right of centerline, up to 61' MSL.
Transmission line 1669' from DER, 734' right of centerline, 92' AGL/94' MSL.
Poles, tree beginning 2409' from DER, 735' right of centerline, up to 106' MSL.
Transmission line 1.1 NM from DER, 2196' left of centerline, 200' AGL/208' MSL.
Rwy 30, pole 15' from DER, 286' right of centerline, 20' AGL/25' MSL.
Wind indicator, vehicle on road, sign beginning 18' from DER, 250' right of centerline, up to 26' MSL.
Poles, tree beginning 46' from DER, 283' left of centerline, up to 36' MSL.
Pole 79' from DER, 511' right of centerline, 36' MSL.
Electrical system, pole, vehicle on road, building, tree beginning 89' from DER, on centerline, up to 41' AGL/46' MSL.
Tree, building beginning 169' from DER, 392' left of centerline, up to 43' MSL.
Vehicle on road, pole, tree beginning 229' from DER, 10' left of centerline, up to 52' MSL.
Tree, light poles, pole beginning 852' from DER, 243' right of centerline, up to 48' MSL.
Electrical system, pole, tree, sign beginning 902' from DER, 346' left of centerline, up to 93' MSL.
Tree, pole beginning 1178' from DER, 347' right of centerline, up to 54' MSL.
Building, tree beginning 1342' from DER, 497' right of centerline, up to 76' MSL.
Poles, tower beginning 1891' from DER, 736' left of centerline, up to 112' MSL.
Tree, buildings beginning 2126' from DER, 809' right of centerline, up to 89' MSL.
Buildings, trees beginning 2454' from DER, 508' right of centerline, up to 102' MSL.
Buildings, trees beginning 2990' from DER, 514' right of centerline, up to 109' MSL.
Electrical system 3393' from DER, 737' left of centerline, 117' MSL.
Buildings beginning 3562' from DER, 363' right of centerline, up to 113' MSL.
Pole 15' from DER, 286' right of centerline, 20' AGL/25' MSL.
Wind indicator, vehicle on road, sign beginning 18' from DER, 250' right of centerline, up to 26' MSL.
Pole, tree beginning 46' from DER, 283' left of centerline, up to 36' MSL.
Pole 79' from DER, 511' right of centerline, 36' MSL.
CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

SAN CARLOS, CA (CON'T)

SAN CARLOS (SQL) (CON'T)

Rwy 30 (CON'T), electrical system, pole, vehicle on road, building, tree beginning 89' from DER, on centerline, up to 41' AGL/46' MSL.
Tree, building beginning 169' from DER, 392' left of centerline, up to 43' MSL.
Vehicle on road, pole, tree beginning 229' from DER, 10' left of centerline, up to 52' MSL.
Tree, light poles, pole beginning 852' from DER, 243' right of centerline, up to 48' MSL.
Electrical system, pole, tree, sign beginning 902' from DER, 346' left of centerline, up to 93' MSL.
Tree, pole beginning 1178' from DER, 347' right of centerline, up to 54' MSL.
Building, tree beginning 1342' from DER, 497' right of centerline, up to 76' MSL.
Poles, tower beginning 1891' from DER, 736' left of centerline, up to 112' MSL.
Tree, buildings beginning 2126' from DER, 809' right of centerline, up to 89' MSL.
Buildings, trees beginning 2454' from DER, 508' right of centerline, up to 102' MSL.
Buildings, trees beginning 2990' from DER, 514' right of centerline, up to 109' MSL.
Electrical system 3393' from DER, 737' left of centerline, 117' MSL.
Buildings beginning 3562' from DER, 363' right of centerline, up to 113' MSL.
Building, pole beginning 1 NM from DER, 1523' right of centerline, up to 178' MSL.
Building 1 NM from DER, 1557' right of centerline, 211' AGL/217' MSL.
Building 1 NM from DER, 1332' right of centerline, 228' AGL/234' MSL.
Buildings beginning 1 NM from DER, 1001' right of centerline, up to 237' AGL/242' MSL.

SAN FRANCISCO, CA

SAN FRANCISCO INTL (SFO)

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 20AUG15 (15232) (FAA)

Rwys 1L, 1R, headings as assigned by ATC; requires min. climb of 420' per NM to 2600.
Rwys 10L, 10R, headings as assigned by ATC.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 9 24JUL14 (14205) (FAA)

TAKEOFF MINIMUMS:

Rwys 19L, 19R, std. w/min. climb of 575' per NM to 2000.
Rwys 28L, 28R, std. w/min. climb of 351' per NM to 1300.

DEPARTURE PROCEDURE:

Rwys 1L, 1R, climb heading 014° to 2000, thence …
Rwys 10L, 10R, climbing left turn heading 053° to intercept SFO R-090 eastbound to 2300; thence …
Rwys 19L, 19R, climbing left turn heading 053° to intercept SFO R-090 eastbound to 2600, thence …
Rwys 28L, 28R, climb heading 284° to 2000, thence …
… continue climb on course.

TAKEOFF OBSTACLE NOTES:

Rwy 1 L, ships beginning 1646' from DER, right and left of centerline, up to 150' AGL/150' MSL.
Rwy 1R, ships beginning 1173' from DER, right and left of centerline, up to 150' AGL/150' MSL.
Rwy 10L, sign 62' from DER, 300' left of centerline, 4' AGL/15' MSL.
Building and rod on building beginning 257' from DER, 560' left of centerline, up to 14' AGL/24' MSL.
Rwy 19L, multiple poles beginning 548' from DER, 46' left of centerline, up to 20' AGL/480' MSL.
Multiple poles and signs beginning 652' from DER, 337' right of centerline, up to 20' AGL/38' MSL.
Multiple buildings, transmission towers, poles, trees, signs, electrical system beginning 937' from DER, 11' left of centerline, up to 100' AGL/127' MSL.
Multiple buildings, transmission towers, poles, trees, signs, electrical system beginning 887' from DER, 61' right of centerline, up to 100' AGL/128' MSL.
Multiple buildings 3831' from DER, 1138' left of centerline, up to 105' AGL/127' MSL.
Multiple buildings and trees beginning 3831' from DER, 74' right of centerline up to 100' AGL/167' MSL.
Rwy 19R, multiple poles, trees, electrical system beginning 454' from DER, 82' right of centerline, up to 40' AGL/60' MSL.
Multiple transmission towers, trees beginning 918' from DER, 7' left of centerline, up to 80' AGL/96' MSL.
Poles and electrical system 1188' from DER, 1' right of centerline, 44' AGL/50' MSL.
Multiple transmission towers, trees beginning 1617' from DER, 16' right of centerline, up to 80' AGL/85' MSL.
Rwy 28L, sign 19' from DER, 500' right of centerline, 5' AGL/9' MSL.
Obstruction lights on DME beginning 277' from DER, 162' left of centerline, up to 16' AGL/26' MSL.
Obstruction light on localizer beginning 219' from DER, on centerline, up to 10' AGL/17' MSL.
Multiple poles, electrical system beginning 824' from DER, 300' left of centerline, up to 40' AGL/56' MSL.
Multiple buildings, transmission towers, tank and pole beginning 1305' from DER, 370' left of centerline, up to 95' AGL/103' MSL.
Rwy 28R, multiple signs, beginning 23' from DER, 140' right of centerline, up to 5' AGL/10' MSL.
Terrain beginning 58' from DER, 146' right of centerline, up to 10' MSL.
Sign, 63' from DER, 250' left of centerline 5' AGL/8' MSL.
Terrain beginning 130' from DER, 235' left of centerline, up to 10' MSL.
Antenna on building, obstruction light on DME, tree, beginning 556' from DER, 268' right of centerline, up to 35' AGL/43' MSL.
Multiple poles beginning 918' from DER, 598' left of centerline, up to 22' AGL/35' MSL.
Multiple buildings, trees beginning 1467' from DER, 683' right of centerline, up to 60' AGL/68' MSL.
Multiple buildings, transmission towers, trees and electrical system beginning 1826' from DER, 123' left of centerline, up to 95' AGL/103' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

SAN JOSE, CA

NORMAN Y MINETA SAN JOSE INTL (SJC)

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 21JUL16 (16203) (FAA)

Rwys 12L/R, heading as assigned by ATC; requires min. climb of 470' per NM to 5600.

Rwys 30L/R, heading as assigned by ATC; requires min. climb of 490' per NM to 5600 and do not exceed 210 KTS until established on assigned heading.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6C 21JUL16 (16203) (FAA)

TAKEOFF MINIMUMS:

Rwys 12L/R, 400-2½ or std. w/min. climb of 261' per NM to 500.

DEPARTURE PROCEDURE:

Rwys 12L/R, climbing right turn to 2000 on Heading 318° and on OAK R-135 to OAK VOR/DME before proceeding on course.

Rwys 30L/R, climb via heading 315° to 2000, then via OAK R-132 to OAK VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 12L, fence 156' from DER, 57' left of centerline, 14' AGL/73' MSL.
Ol on blast fence, 156' from DER, 57' left of centerline, 73' MSL.
Pole 191' from DER, 81' left of centerline, 34' AGL/93' MSL.
Trees beginning 286' from DER, 161' right of centerline, up to 107' MSL.
T-L twr, pole beginning 466' from DER, 228' left of centerline, up to 46' AGL/105' MSL.
Tree 1281' from DER, 529' left of centerline, 117' MSL.
T-L twr 1731' from DER, 729' left of centerline, 86' AGL/156' MSL.
Tree 1799' from DER, 273' left of centerline, 144' MSL.
Tree 1887' from DER, 68' right of centerline, 124' MSL.
T-L twr 3047' from DER, 543' left of centerline, 73' AGL/147' MSL.
Building 1.2 NM from DER, 630' left of centerline, 170' AGL/250' MSL.
Building 1.3 NM from DER, 1051' left of centerline, 265' MSL.
Building 1.3 NM from DER, 445' left of centerline, 217' AGL/301' MSL.
Building 1.3 NM from DER, 51' left of centerline, 228' AGL/309' MSL.
Buildings beginning 1.3 NM from DER, 81' left of centerline, up to 312' MSL.
Building 1.5 NM from DER, 975' left of centerline, 262' AGL/351' MSL.
Building 1.5 NM from DER, 1591' left of centerline, 268' AGL/358' MSL.
Buildings beginning 1.5 NM from DER, 82' left of centerline, up to 365' MSL.
Buildings beginning 1.6 NM from DER, 280' right of centerline, up to 346' MSL.
Buildings beginning 1.6 NM from DER, 350' right of centerline, up to 260' AGL/350' MSL.
Building 1.6 NM from DER, 1977' left of centerline, 286' AGL/368' MSL.
Buildings beginning 1.6 NM from DER, 640' left of centerline, up to 274' AGL/370' MSL.
Building 1.9 NM from DER, 313' right of centerline, 284' AGL/373' MSL.
Building 1.9 NM from DER, 282' right of centerline, 281' AGL/372' MSL.
Rwy 12R, ol on loc 10' from DER, on centerline, 68' MSL.
Ol on blast fence 45' from DER, 115' right of centerline, 75' MSL.
Fence 45' from DER, 115' right of centerline, 14' AGL/75' MSL.
Tree 269' from DER, 149' right of centerline, 100' MSL.
Trees, beginning 285' from DER, 193' left of centerline, up to 107' MSL.
Rd 338' from DER, 2' right of centerline, 82' MSL.
Tree, pole beginning 519 ' from DER, 279' right of centerline, up to 122' MSL.
Trees beginning 1798' from DER, 631' left of centerline, up to 144' MSL.
Poles beginning 1948' from DER, 688' right of centerline, up to 59' AGL/128 ' MSL.
Tree 2604' from DER, 551' right of centerline, 133' MSL.
T-L twr 3046' from DER, 1243' left of centerline, 73' AGL/147' MSL.
Tree 3079' from DER, 873' right of centerline, 142' MSL.
Building 1.3 NM from DER, 1145' left of centerline, 217' AGL/301' MSL.
Building 1.3 NM from DER, 751' left of centerline, 228' AGL/309' MSL.
Buildings beginning 1.3 NM from DER, 781' left of centerline, up to 312' MSL.
Building 1.5 NM from DER, 1676' left of centerline, 262' AGL/351' MSL.
Building 1.5 NM from DER, 2291' left of centerline, 268' AGL/358' MSL.
Buildings beginning 1.5 NM from DER, 134' left of centerline, up to 365' MSL.
Building 1.6 NM from DER, 2678' left of centerline, 286' AGL/368' MSL.
Buildings beginning 1.6 NM from DER, 1340' left of centerline, up to 274' AGL/370' MSL.
Building 1.6 NM from DER, 345' right of centerline, 320' MSL.
Building 1.9 NM from DER, 386' left of centerline, 284' AGL/373' MSL.
Building 1.9 NM from DER, 417' left of centerline, 281' AGL/372' MSL.
Rwy 30L, poles beginning 166' from DER, 494' left of centerline, up to 69' MSL.
NAVAID 174' from DER, on centerline, 7' AGL/44' MSL.
Fence 184' from DER, 369' right of centerline, 15' AGL/51' MSL.
Tree 308' from DER, 424' left of centerline, 71' MSL.
Tree, pole beginning 473' from DER, 118' right of centerline, up to 72' MSL.
Poles beginning 711' from DER, 544' right of centerline, up to 75' MSL.
NAVAID 782' from DER, 350' left of centerline, 47' AGL/83' MSL.
Pole 1227' from DER, 607' left of centerline, 48' AGL/86' MSL.
Pole 1315' from DER, 548' right of centerline, 49' AGL/80' MSL.
Pole 1329' from DER, 743' left of centerline, 57' AGL/94' MSL.
Tree 1852' from DER, 179' right of centerline, 85' MSL.
CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

SAN JOSE, CA (CON'T)

NORMAN Y MINETA SAN JOSE INTL (SJC) (CON'T)

Rwy 30L (CON'T), tree 2561' from DER, 738' right of centerline, 108' MSL.
Trmsn twr, t-l twr, beginning 2616' from DER, 1130' left of centerline, up to 120' MSL.
Pole 2806' from DER, 1215' left of centerline, 135' MSL.
Pole 2897' from DER, 614' left of centerline, 113' MSL.
Pole, t-l twr, beginning 4145' from DER, 1329' left of centerline, up to 152' MSL.
Rwy 30R, pole 100' from DER, 449' right of centerline, 40' AGL/75' MSL.
Fence 138' from DER 243' right of centerline, 13' AGL/47' MSL.
Fence 184' from DER, 329' left of centerline, 15' AGL/51' MSL.
Tree 411' from DER, 37' left of centerline, 70' MSL.
Tree 473' from DER, 319' left of centerline, 72' MSL.
Pole 526' from DER, 580' left of centerline, 26' AGL/61' MSL.
Pole 657' from DER, 369' right of centerline, 53' AGL/84' MSL.
Vehicle on rd beginning 688' from DER, on centerline, up to 68' MSL.
Poles beginning 711' from DER, 57' left of centerline, up to 25' AGL/75' MSL.
Pole 961' from DER, 133' right of centerline, 56' AGL/88' MSL.
Pole 1315' from DER, 150' left of centerline, 49' AGL/80' MSL.
Tree 1852' from DER, 519' left of centerline, 85' MSL.
Tree 2561' from DER, 39' right of centerline, 108' MSL.
Building 3424' from DER, 146' right of centerline, 96' AGL/124' MSL.

REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 12JUN25 (25163) (FAA)

Rwys 31L/R, heading as assigned by ATC.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05SEP24 (24249) (FAA)

DEPARTURE PROCEDURE:

Rwys 13L/R, use HENCE DEPARTURE.
Rwys 31L/R, use DECOT DEPARTURE.

SAN MARTIN, CA

SAN MARTIN (E16)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05NOV20 (20310) (FAA)

TAKEOFF MINIMUMS:

Rwy 32, 3600-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 14, climb on heading 141° to 5000 and SNS R-355 to SNS VORTAC before proceeding on course.

VCOA:

Rwy 32, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross San Martin Airport at or above 3700 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, traverse way, vegetation beginning 50' from DER, 104' left of centerline, up to 291' MSL.
Pole, traverse way, fence, trees beginning 259' from DER, 81' left of centerline, up to 30' AGL/308' MSL.
Traverse way 344' from DER, 17' right of centerline, up to 286' MSL.
Antenna 1568' from DER, 620' left of centerline, 55' AGL/319' MSL.
Trees beginning 1571' from DER, 601' right of centerline, up to 71' AGL/338' MSL.
Rwy 32, traverse way 73' from DER, 429' right of centerline, 300' MSL.
Traverse way 127' from DER, 321' right of centerline, 301' MSL.
Tree 169' from DER, 537' right of centerline, 303' MSL.
Pole, traverse way, trees beginning 213' from DER, 173' right of centerline, up to 37' AGL/321' MSL.
Traverse way 387' from DER, 575' left of centerline, 300' MSL.
Trees, pole, traverse way beginning 545' from DER, 46' left of centerline, up to 321' MSL.
Traverse way beginning 1171' from DER, 71' right of centerline, up to 323' MSL.
Traverse way, trees beginning 1172' from DER, 188' right of centerline, up to 327' MSL.
Tree 1486' from DER, 668' left of centerline, 335' MSL.
Trees beginning 1573' from DER, 297' left of centerline, up to 337' MSL.
Tree 1670' from DER, 655' right of centerline, 330' MSL.
Tree 1708' from DER, 87' right of centerline, 331' MSL.
Tree 1837' from DER, 328' left of centerline, 342' MSL.
Trees beginning 1880' from DER, 177' right of centerline, up to 340' MSL.
Trees beginning 2045' from DER, 331' left of centerline, up to 350' MSL.
Tree 2146' from DER, 888' right of centerline, 341' MSL.
Trees beginning 2217' from DER, 194' right of centerline, up to 72' AGL/364' MSL.
Trees beginning 2319' from DER, 342' left of centerline, up to 357' MSL.
Tree 2984' from DER, 1021' left of centerline, 378' MSL.
Tree 3137' from DER, 946' left of centerline, 381' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

SANTA ROSA, CA

CHARLES M SCHULZ/SONOMA COUNTY (STS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 17JUN21 (24305) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, std w/min climb of 300' per NM to 2100 or 1500-3 for VCOA.
Rwy 14, std w/min climb of 285' per NM to 2500 or 1500-3 for VCOA.
Rwy 20, std w/min climb of 265' per NM to 2200 or 1500-3 for VCOA.
Rwy 32, std w/min climb of 375' per NM to 2200 or 1500-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 2, climbing left turn to 2100 on a heading between 200° CW to 305° from DER before proceeding on course.
Rwy 14, climb to 2500 on a heading between 110° CW to 315° from DER before proceeding on course.
Rwy 20, climb to 2200 on a heading between 100° CW to 250° from DER before proceeding on course.
Rwy 32, climbing left turn to 2200 on a heading between 145° CW to 315° from DER before proceeding on course.

VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance.
Rwys 2, 14, 20, 32 climb in visual conditions to cross Charles M Schulz/Sonoma County airport at or above 1400 before proceeding southbound on PYE R-349 to PYE VOR/DME.

TAKEOFF OBSTACLE NOTES:

Rwy 2, tree 515' from DER, 561' right of centerline, 145' MSL.
Tree, pole beginning 629' from DER, 19' right of centerline, up to 156' MSL.
Tree 971' from DER, 369' left of centerline, 42' AGL/148' MSL.
Tree 985' from DER, 216' left of centerline, 149' MSL.
Trees beginning 1053' from DER, 215' left of centerline, up to 150' MSL.
Trees beginning 1153' from DER, 146' left of centerline, up to 156' MSL.
Trees beginning 1328' from DER, 478' right of centerline, up to 168' MSL.
Trees beginning 1604' from DER, 639' left of centerline, up to 166' MSL.
Trees beginning 1638' from DER, 786' right of centerline, up to 184' MSL.
Trees beginning 1846' from DER, 619' left of centerline, up to 65' AGL/174' MSL.
Trees beginning 2145' from DER, 344' right of centerline, up to 190' MSL.
Trees beginning 2299' from DER, 342' right of centerline, up to 191' MSL.
Tree 2679' from DER, 443' right of centerline, 196' MSL.
Rwy 14, pole 6' from DER, 40' left of centerline, 121' MSL.
Tree 409' from DER, 602' left of centerline, 138' MSL.
Tree 778' from DER, 649' left of centerline, 146' MSL.
Tree 972' from DER, 629' left of centerline, 147' MSL.
Trees beginning 1202' from DER, 599' left of centerline, up to 155' MSL.
Tree 1336' from DER, 759' left of centerline, 167' MSL.
Tree 2136' from DER, 778' right of centerline, 174' MSL.
Tree 2194' from DER, 1033' right of centerline, 180' MSL.
Tree 5322' from DER, 1543' left of centerline, 255' MSL.
Rwy 20, tree 107' from DER, 461' right of centerline, 40' AGL/162' MSL.
Trees beginning 1497' from DER, 731' right of centerline, up to 248' MSL.
Tree 1595' from DER, 482' left of centerline, 171' MSL.
Tree 1679' from DER, 404' left of centerline, 187' MSL.
Tree 1693' from DER, 934' right of centerline, 137' AGL/269' MSL.
Trees beginning 1705' from DER, 566' right of centerline, up to 144' AGL/274' MSL.
Tree 2840' from DER, 1174' left of centerline, 228' MSL.
Rwy 32, tree 88' from DER, 472' left of centerline, 147' MSL.
Trees beginning 263' from DER, 425' left of centerline, up to 153' MSL.
Tree 642' from DER, 450' right of centerline, 143' MSL.
Tree 700' from DER, 548' right of centerline, 158' MSL.
Trees beginning 797' from DER, 470' left of centerline, up to 154' MSL.
Trees beginning 902' from DER, 609' right of centerline, up to 172' MSL.
Tree 1298' from DER, 370' left of centerline, 155' MSL.
Trees beginning 1701' from DER, 140' left of centerline, up to 174' MSL.
Tree 3187' from DER, 139' left of centerline, 167' AGL/257' MSL.

SOUTH LAKE TAHOE, CA

LAKE TAHOE (TVL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, std. w/min. climb of 810' per NM to 10800, or alternatively, 1600-3 w/min. climb of 765' per NM to 10800, or 5100-5 for VCOA.
Rwy 36, 300-1⅜ or std. w/min. climb of 755' per NM to 6500.

DEPARTURE PROCEDURE:

Rwy 18, climb heading 177° to 7900 then climbing right turn to intercept and climb on SWR R-133 to SWR VOR/DME thence...
Rwy 36, climb heading 357° to intercept and climb on SWR R-113 to SWR VOR/DME thence...
...Proceed on course.

VCOA:

Rwy 18, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross South Lake Tahoe Airport at or above 11200' MSL then intercept and proceed on SWR R-127 to SWR VOR/DME.

CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

SOUTH LAKE TAHOE, CA (CON'T)

LAKE TAHOE (TVL) (CON'T)

TAKEOFF OBSTACLE NOTES:

Rwy 18, pole 10' from DER, 40' left of centerline, 2' AGL/6270' MSL.
Vehicles on road, sign beginning 16' from DER, 247' right of centerline, up to 6282' MSL.
Trees beginning 19' from DER, 378' left of centerline, up to 88' AGL/6354' MSL.
Trees, vehicles on road, vegetation, terrain, pole beginning 140' from DER, 20' right of centerline, up to 88' AGL/6355' MSL.
Pole, trees beginning 263' from DER, 4' left of centerline, up to 102' AGL/6369' MSL.
Trees beginning 917' from DER, 1' left of centerline, up to 111' AGL/6388' MSL.
Trees beginning 1095' from DER, 8' right of centerline, up to 107' AGL/6392' MSL.
Trees beginning 1702' from DER, on centerline, up to 6403' MSL.
Trees beginning 1960' from DER, 6' left of centerline, up to 98' AGL/6412' MSL.
Trees, poles beginning 2021' from DER, 1' right of centerline, up to 6416' MSL.
Trees beginning 2392' from DER, 8' left of centerline, up to 113' AGL/6418' MSL.
Trees, buildings beginning 2441' from DER, 1' left of centerline, up to 6419' MSL.
Trees, buildings, vehicles on road, poles, antenna, vegetation beginning 2712' from DER, on centerline, up to 91' AGL/6420' MSL.
Tree 2.5 NM from DER, 1451' left of centerline, 7837' MSL.
Rwy 36, sign 9' from DER, 212' left of centerline, 4' AGL/6256' MSL.
Vehicle on road 18' from DER, 360' left of centerline, 6266' MSL.
Trees, vehicle on road beginning 51' from DER, 330' right of centerline, up to 47' AGL/6296' MSL.
Tree, pole, terrain, fence beginning 142' from DER, 236' right of centerline, up to 50' AGL/6302' MSL.
Trees beginning 175' from DER, 210' right of centerline, up to 44' AGL/6312' MSL.
Trees beginning 225' from DER, 173' right of centerline, up to 47' AGL/6319' MSL.
Trees beginning 459' from DER, 181' right of centerline, up to 58' AGL/6328' MSL.
Trees, vehicles on road beginning 593' from DER, 52' right of centerline, up to 59' AGL/6330' MSL.
Trees, vehicles on road beginning 768' from DER, 84' right of centerline, up to 71' AGL/6340' MSL.
Trees, vehicles on road beginning 953' from DER, 143' right of centerline, up to 67' AGL/6348' MSL.
Trees, vehicles on road beginning 1116' from DER, 104' right of centerline, up to 54' AGL/6355' MSL.
Tree 1324' from DER, 564' right of centerline, 62' AGL/6370' MSL.
Tree 1331' from DER, 761' right of centerline, 61' AGL/6379' MSL.
Trees, vehicles on road beginning 1382' from DER, 142' right of centerline, up to 6382' MSL.
Trees beginning 1497' from DER, 161' right of centerline, up to 69' AGL/6391' MSL.
Trees, vehicles on road, terrain beginning 1520' from DER, 41' left of centerline, up to 6402'MSL.
Trees, vehicles on road, fence, NAVAID, poles, tower beginning 1838' from DER, 5' left of centerline, up to 74' AGL/6427' MSL.
Trees beginning 5300' from DER, 377' right of centerline, up to 133' AGL/6430' MSL.
Trees beginning 1 NM from DER, 703' right of centerline, up to 6436' MSL.
Trees beginning 1 NM from DER, 1100' right of centerline, up to 134' AGL/6420' MSL

STOCKTON, CA

STOCKTON METRO (SCK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 20JUN19 (21168) (FAA)

TAKEOFF MINIMUMS:

Rwy 29R, 200-1¼ or std. w/min. climb of 215' per NM to 300 or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1400' prior to DER.

TAKEOFF OBSTACLE NOTES:

Rwy 11L, building 231' from DER, 401' left of centerline, 8' AGL/39' MSL.
Traverse way 413' from DER, 456' left of centerline, 49' MSL.
Rwy 11R, traverse way 61' from DER, 486' right of centerline, 43' MSL.
Lighting 122' from DER, 415' left of centerline, 2' AGL/29' MSL.
Rwy 29L, traverse way, aircraft parking, electrical system beginning 132' from DER, 235' left of centerline, up to 45' MSL.
Buildings beginning 424' from DER, 369' left of centerline, up to 61' MSL.
Building 2946' from DER, 1215' left of centerline, 102' MSL.
Building 2963' from DER, 1203' left of centerline, 97' AGL/117' MSL.
Stack, building beginning 5568' from DER, 1600' right of centerline, up to 150' AGL/171' MSL.
Rwy 29R, fence, trees beginning 181' from DER, 5' right of centerline, up to 18' AGL/41' MSL.
Fence, trees, traverse way, pole beginning 208' from DER, 1' left of centerline, up to 17' AGL/41' MSL.
Poles, traverse way beginning 255' from DER, 35' right of centerline, up to 32' AGL/55' MSL.
Poles beginning 528' from DER, 305' left of centerline, up to 31' AGL/54' MSL.
Pole 653' from DER, 515' left of centerline, 32' AGL/55' MSL.
Pole 834' from DER, 693' left of centerline, 38' AGL/60' MSL.
Pole 1587' from DER, 857' left of centerline, 48' AGL/69' MSL.
Elevator 4480' from DER, 868' right of centerline, 122' AGL/141' MSL.
Stack, buildings beginning 4599' from DER, 827' right of centerline, up to 150' AGL/171' MSL.
Elevator, building beginning 1 NM from DER 1878' left of centerline, up to 174' AGL/191' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

SUSANVILLE, CA

SUSANVILLE MUNI (SVE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 09JUL26 (26190) (FAA)

TAKEOFF MINIMUMS:

Rwys 7, 25, 29, NA - Obstacles.

DEPARTURE PROCEDURE:

Rwy 11, use AMEDEE DEPARTURE.

TRACY, CA

TRACY MUNI (TCY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 22OCT09 (09295) (FAA)

TAKEOFF MINIMUMS:

Rwy 26, 700-3 or std. w/ a min. climb of 320' per NM to 1000.

DEPARTURE PROCEDURE:

Rwy 8, climb to 3000 via heading 073° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.

Rwy 12, climbing left turn to 3000 to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.

Rwy 26, climbing right turn to 3000 via heading 150° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.

Rwy 30, climbing right turn to 3000 via heading 150° to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 8, tree 472' from DER, 198' left of centerline, 50' AGL/194' MSL.
Fence 167' from DER, 8' right of centerline, 25' AGL/176' MSL.
Vehicle on road 241' from DER, 412' left of centerline, 15' AGL/183' MSL.
Vehicles on roads starting 241' from DER, 7' right of centerline, up to 15' AGL/189' MSL.
Poles starting 403' from DER, 204' left of centerline, up to 54' AGL/208' MSL.
Poles starting 727' from DER, 49' right of centerline, up to 54' AGL/212' MSL.
Rwy 12, trees starting 436' from DER, 251' right of centerline, up to 72' AGL/253' MSL.
Conveyor 1995' from DER, 504' left of centerline, 66' AGL/ 270' MSL.
Poles starting 832' from DER, 396' right of centerline, up to 56' AGL/240' MSL.
Obstruction light on hopper 1934' from DER, 274' right of centerline, 74' AGL/255' MSL.
Vehicles on road starting 133' from DER, 272' left of centerline, up to 15' AGL/206' MSL.
Fence 32' from DER 405' left of centerline, 25' AGL/194' MSL.
Rwy 26, tree 1173' from DER, 180' right of centerline, 35' AGL/234'MSL.
Trees starting 1067' from DER, 125' left of centerline, up to 35' AGL/794' MSL.
Vehicle on road 236' from DER, 150' left of centerline, 15' AGL/214' MSL.
Fence 69' from DER, 133' left of centerline, 23' AGL/203' MSL.
Rising terrain 11105' from DER, 2814' left of centerline, up to 739' MSL.
Rwy 30, trees starting 438' from DER, 30' right of centerline, up to 35' AGL/209' MSL.
Tree 1079' from DER, 82' left of centerline, 35' AGL/214' MSL.
Obstruction light on hopper 985' from DER, 353' right of centerline, 72' AGL/236' MSL.
Bush 195' from DER, 364' left of centerline, 25' AGL/189' MSL.
Light pole 1149' from DER, 160' left of centerline, 47' AGL/211' MSL.
Obstruction light on building 2289' from DER, 65' right of centerline, 74' AGL/238' MSL.

TRAVIS AFB (KSUU)

FAIRFIELD, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 17APR25 (25107) (USAF)

TAKEOFF MINIMUMS:

Rwy 3R, std w/min climb of 287'/NM to 4000, or 2400-3 for VCOA.

Rwys 21L/R, 3L, std w/ min climb of 311'/NM to 4000, or 2400-3 for VCOA.

VCOA:

All Rwys, obtain ATC approval for VCOA when requesting IFR clearance. For climb in visual conditions: cross Travis AFB airport at or above 2300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3L, taxiing acft, beginning 620' from DER, 500' left of centerline, 65' AGL/131' MSL.
Taxiing acft, beginning 620' from DER, 500' right of centerline, 65' AGL/125' MSL.
Holding acft, 1900' from DER, 385' left of centerline, 65' AGL/128' MSL.
Holding acft, 1900' from DER, 385' right of centerline, 65' AGL/125' MSL.
Rwy 21L, bldg 310' from DER, 580' left of centerline, 15' AGL/65' MSL.
Poles beginning 340' from DER, 550' left of centerline, 50' AGL/81' MSL.

TRUCKEE, CA

TRUCKEE-TAHOE (TRK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 29DEC22 (22363) (FAA)

TAKEOFF MINIMUMS:

Rwys 11, 20, NA-Obstacles.

DEPARTURE PROCEDURE:

Rwys 2, 29, use TRUCK DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 2, trees, electrical system beginning 32' from DER, 189' left of centerline, up to 5934' MSL.
Trees beginning 448' from DER, 431' right of centerline, up to 5968' MSL.
Trees beginning 1 NM from DER, 1765' right of centerline, up to 6078' MSL.
Tree 1 NM from DER, 1920' right of centerline, 6125' MSL.
Trees beginning 1 NM from DER, 1540' right of centerline, up to 6130' MSL.
Tree 1.1 NM from DER, 2002' right of centerline, 6145' MSL.
Tree 1.1 NM from DER, 1766' right of centerline, 6153' MSL.
Trees beginning 1.1 NM from DER, 1340' right of centerline, up to 6154' MSL.
Trees beginning 1.1 NM from DER, 1302' right of centerline, up to 6182' MSL.
Trees beginning 1.1 NM from DER, 1115' right of centerline, up to 6242' MSL.
Trees beginning 1.1 NM from DER, 1067' right of centerline, up to 6248' MSL.
Trees beginning 1.2 NM from DER, 1147' right of centerline, up to 6253' MSL.
Trees beginning 1.2 NM from DER, 1351' right of centerline, up to 6266' MSL.
Trees beginning 1.2 NM from DER, 929' right of centerline, up to 6272' MSL.
Trees beginning 1.2 NM from DER, 818' right of centerline, up to 6280' MSL.
Trees beginning 1.3 NM from DER, 1744' right of centerline, up to 6281' MSL.
Trees beginning 1.3 NM from DER, 639' right of centerline, up to 6288' MSL.
Trees beginning 1.3 NM from DER, 433' right of centerline, up to 6305' MSL.
Trees, building beginning 1.4 NM from DER, 40' right of centerline, up to 6315' MSL.
Tree 1.5 NM from DER, 7' left of centerline, 6137' MSL.
Rwy 29, sign 23' from DER, 157' left of centerline, 3' AGL/5902' MSL.
Trees beginning 73' from DER, 400' right of centerline, up to 5968' MSL.
Pole 144' from DER, 217' left of centerline, 6' AGL/5905' MSL.
Trees beginning 206' from DER, 55' right of centerline, up to 5971' MSL.
Tree 213' from DER, 546' left of centerline, 5923' MSL.
Trees beginning 637' from DER, 81' left of centerline, up to 6005' MSL.
Tree 5956' from DER, 542' right of centerline, 6058' MSL.
Trees beginning 1.6 NM from DER, 1356' left of centerline, up to 6153' MSL.
Trees beginning 1.6 NM from DER, 1384' left of centerline, up to 6197' MSL.
Trees, water tower beginning 1.6 NM from DER, 1738' left of centerline, up to 6206' MSL.
Trees, pole beginning 1.6 NM from DER, 249' left of centerline, up to 6268' MSL.
Tree 1.8 NM from DER, 3070' right of centerline, 6192' MSL.
Tree 1.8 NM from DER, 2728' right of centerline, 6197' MSL.
Tree 1.8 NM from DER, 1614' right of centerline, 6204' MSL.
Trees beginning 1.8 NM from DER, 1108' right of centerline, up to 6211' MSL.
Tree 1.8 NM from DER, 2581' right of centerline, 6259' MSL.
Trees beginning 1.8 NM from DER, 2144' right of centerline, up to 6265' MSL.
Trees beginning 1.9 NM from DER, 183' right of centerline, up to 6266' MSL.
Tree 1.9 NM from DER, 3540' right of centerline, 6308' MSL.
Tree 1.9 NM from DER, 3135' right of centerline, 6351' MSL.
Trees beginning 1.9 NM from DER, 307' right of centerline, up to 6379' MSL.
Tree 2 NM from DER, 3583' right of centerline, 6391' MSL.
Trees beginning 2 NM from DER, 1301' right of centerline, up to 6458' MSL.
Trees beginning 2 NM from DER, 535' right of centerline, up to 6468' MSL.
Tree 2 NM from DER, 639' left of centerline, 6270' MSL.
Tree 2.1 NM from DER, 2242' left of centerline, 6315' MSL.
Trees beginning 2.1 NM from DER, 50' left of centerline, up to 6332' MSL.
Tree 2.1 NM from DER, 2881' right of centerline, 6502' MSL.
Trees beginning 2.1 NM from DER, 214' right of centerline, up to 6505' MSL.
Tree 2.1 NM from DER, 2769' left of centerline, 6439' MSL.
Trees beginning 2.1 NM from DER, 259' left of centerline, up to 6440' MSL.
Tree 2.1 NM from DER, 3037' right of centerline, 6547' MSL.
Trees beginning 2.1 NM from DER, 636' right of centerline, up to 6573' MSL.
Trees beginning 2.2 NM from DER, 1171' right of centerline, up to 6583' MSL.
Trees beginning 2.2 NM from DER, 733' left of centerline, up to 6460' MSL.
Trees, building beginning 2.2 NM from DER, 20' left of centerline, up to 6549' MSL.
Trees beginning 2.2 NM from DER, 525' right of centerline, up to 6612' MSL.
Trees beginning 2.3 NM from DER, 1111' right of centerline, up to 6657' MSL.
Tree beginning 2.3 NM from DER, 2179' right of centerline, up to 6682' MSL.
Trees beginning 2.3 NM from DER, 412' right of centerline, up to 6731' MSL.
Trees beginning 2.4 NM from DER, 371' right of centerline, up to 6776' MSL.
Tower 2.5 NM from DER, 2714' right of centerline, 93' AGL/6817' MSL.
Antenna, trees beginning 2.5 NM from DER, 73' right of centerline, up to 88' AGL/6822' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

TULARE, CA

MEFFORD FLD (TLR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 24MAR22 (22083) (FAA)

DEPARTURE PROCEDURE:

Rwy 13, climb on heading 135° and TTE R-294 to TULE (TTE) VOR/DME, thence...

Rwy 31, climb on heading 315° to 1500, then climbing left turn to intercept TTE R-294 to TULE (TTE) VOR/DME, thence...

...cross TTE VOR/DME at or above 3000 and climb on course

TAKEOFF OBSTACLE NOTES:

Rwy 13, trees beginning 71' from DER, 13' right of centerline, up to 60' AGL/349' MSL.
Fence 370' from DER crossing extended runway centerline, 6' AGL/280' MSL.
Hangers 200' from DER, 525' right of centerline up to 28' AGL/287 MSL.
Trees beginning 85' from DER, 27' left of centerline, up to 60' AGL/349' MSL.
Rwy 31, vehicle on road 83' from DER, 340' right of centerline, 279' MSL.
Vehicle on road beginning 210' from DER, 376' right of centerline, up to 280' MSL.
Vehicle on road 343' from DER, 415' left of centerline, 280' MSL.
Vehicle on road 492' from DER, 395' left of centerline, 281' MSL.
Vehicle on road 544' from DER, 416' right of centerline, 281' MSL.
Vehicle on road 684' from DER, 458' left of centerline, 283' MSL.
Sign 793' from DER, 424' left of centerline, 13' AGL/286' MSL.
Pole 1141' from DER, 547' left of centerline, 26' AGL/298' MSL.
Sign 1422' from DER, 542' right of centerline, 37' AGL/311' MSL.
Tower 3586' from DER, 580' left of centerline, 110' AGL/383' MSL.

TURLOCK, CA

TURLOCK MUNI (O15)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 31OCT24 (24305) (FAA)

TAKEOFF MINIMUMS:

Rwy 30, 300-2 or std w/min climb of 210'/NM to 500.

DEPARTURE PROCEDURE:

Rwy 12, climb on heading 120° to 1200 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 12, vehicle on road, fence beginning 16' from DER, 216' right of centerline, up to 15' AGL/175' MSL.
Fence beginning 26' from DER, 162' left of centerline, up to 167' MSL.
Rwy 30, terrain beginning 7' from DER, 185' right of centerline, up to 164' MSL.
Electrical system, building beginning 435' from DER, 526' left of centerline, up to 196' MSL.
Electrical system, vehicle on road beginning 575' from DER, 221' left of centerline, up to 198' MSL.
Electrical systems, buildings, trees, tank beginning 735' from DER, 79' left of centerline, up to 34' AGL/199' MSL.

UKIAH, CA

UKIAH MUNI (UKI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 03NOV22 (22307) (FAA)

TAKEOFF MINIMUMS:

Rwy 15, std. w/min. climb of 687' per NM to 3900 or 4000-3 for climb in visual conditions.
Rwy 33, std. w/min. climb of 350' per NM to 5000 or 4000-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 15, climb on heading 155° to 3800 before proceeding on course.
Rwy 33, climb on heading 335° to 4000, then climbing left turn direct ENI VORTAC, continue climb in ENI holding pattern (hold S, right turns, 022° inbound) to cross ENI VORTAC at or above MEA for route of flight.

VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Ukiah Muni airport at or above 4500 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 15, general utility 13' from DER, 118' right of centerline, 6' AGL/610' MSL.
General utility 13' from DER, 115' left of centerline, 4' AGL/606' MSL.
Building, road beginning 34' from DER, 245' right of centerline, up to 16' AGL/625' MSL.
Tree, road beginning 112' from DER, 124' left of centerline, up to 629' MSL.
Building, sign, road beginning 116' from DER, 246' right of centerline, up to 628' MSL.
Pole 275' from DER, 357' right of centerline, 28' AGL/634' MSL.
Pole, road, building beginning 294' from DER, 4' right of centerline, up to 30' AGL/636' MSL.
Tree, pole beginning 527' from DER, 283' left of centerline, up to 647' MSL.
Pole, tree, building beginning 530' from DER, 150' right of centerline, up to 40' AGL/645' MSL.
Tree, building, pole beginning 555' from DER, 28' right of centerline, up to 696' MSL.
Trees beginning 1026' from DER, 338' left of centerline, up to 670' MSL.
Trees beginning 2193' from DER, 33' left of centerline, up to 674' MSL.
Trees beginning 2543' from DER, 418' right of centerline, up to 712' MSL.
Tree 2755' from DER, 31' left of centerline, 698' MSL.
Rwy 33, general utility 1' from DER, 137' left of centerline, 3' AGL/621' MSL.
Pole, road, tree beginning 27' from DER, 157' right of centerline, up to 27' AGL/635' MSL.
Terrain 130' from DER, 471' left of centerline, 623' MSL.
Pole, road beginning 269' from DER, 154' right of centerline, up to 36' AGL/645' MSL.

CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026

UKIAH, CA (CON'T)

UKIAH MUNI (UKI) (CON'T)

Rwy 33 (CON'T), tree 461' from DER, 555' left of centerline, 654' MSL.
Pole, road, tree beginning 543' from DER, 12' left of centerline, up to 53' AGL/679' MSL.
Pole beginning 572' from DER, 505' right of centerline, up to 41' AGL/647' MSL.
Transmission line, sign, tree beginning 894' from DER, 288' left of centerline, up to 65' AGL/691' MSL.
Transmission line, building, tree beginning 931' from DER, 411' right of centerline, up to 61' AGL/667' MSL.
Tree, pole, sign beginning 961' from DER, 9' left of centerline, up to 693' MSL.
Tree, transmission line, pole beginning 1357' from DER, 161' right of centerline, up to 668' MSL.
Trees beginning 1670' from DER, 407' right of centerline, up to 679' MSL.
Trees beginning 2593' from DER, 906' left of centerline, up to 708' MSL.
Trees beginning 2788' from DER, 878' left of centerline, up to 709' MSL.
Tree 5383' from DER, 1848' left of centerline, 752' MSL.
Tree 5948' from DER, 1814' left of centerline, 767' MSL.

VACAVILLE, CA

NUT TREE (VCB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwy 20, std. w/ min. climb of 410' per NM to 1600, or 1200-2½ for VCOA .

DEPARTURE PROCEDURE:

Rwy 2, climbing right turn to intercept SAC R-242 to SAC VORTAC to 2000 before proceeding on course.
Rwy 20, climbing left turn to intercept SAC R-242 to SAC VORTAC to 2000 before proceeding on course.

VCOA:

Rwy 20, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Nut Tree airport eastbound at or above 1300 then climb to 2000 on SAC R-242 TO SAC VORTAC, proceed on course.

TAKEOFF OBSTACLE NOTES:

Rwy 2, parking lot, pole beginning 51' from DER, 290' right of centerline, up to 15' AGL/119' MSL.
Fence beginning 99' from DER, 210' left of centerline, up to 118' MSL.
Pole, parking lot, tree beginning 137' from DER, 417' left of centerline, up to 148' MSL.
Tree 948' from DER, 732' right of centerline, 141' MSL.
Pole 1099' from DER, 612' left of centerline, 149' MSL.
Rwy 20, terrain beginning 8' from DER, 253' right of centerline, up to 117' MSL.
Tree 61' from DER, 411' left of centerline, 51' AGL/163' MSL.
Terrain 140' from DER, 432' right of centerline, 124' MSL.
Tree 144' from DER, 538' left of centerline, 85' AGL/197' MSL.
Pole, terrain, fence beginning 206' from DER, 167' right of centerline, up to 12' AGL/130' MSL.
Tree 259' from DER, 506' left of centerline, 211' MSL.
Pole, ant, tree beginning 362' from DER, 497' left of centerline, up to 125' AGL/239' MSL.
Tree 544' from DER, 454' right of centerline, 135' MSL.
Tree, road (north) beginning 710' from DER, 393' right of centerline, up to 164' MSL.
Tree, pole, ant, terrain, chimney/smokestack, sign beginning 825' from DER, 22' left of centerline, up to 264' MSL.
Tree, pole beginning 1576' from DER, 344' right of centerline, up to 190' MSL.
T-l tower, pole beginning 1860' from DER, 82' right of centerline, up to 55' AGL/191' MSL.
Terrain 2985' from DER, 1295' right of centerline, 195' MSL.
Terrain 3087' from DER, 1146' right of centerline, 198' MSL.
Terrain 3090' from DER, 1303' right of centerline, 210' MSL.
Terrain beginning 3155' from DER, 1128' right of centerline, up to 217' MSL.
Tree, terrain beginning 3252' from DER, 535' right of centerline, up to 241' MSL.
Terrain beginning 3635' from DER, 54' right of centerline, up to 248' MSL.
Terrain 4058' from DER, 110' right of centerline, 254' MSL.
Terrain, tree beginning 4104' from DER, 18' right of centerline, up to 263' MSL.
Tree 5765' from DER, 1605' right of centerline, 264' MSL.

VISALIA, CA

VISALIA MUNI (VIS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 24MAR22 (22083) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climb on heading 121° to 1500, then climbing right turn direct TTE VOR/DME thence...
Rwy 30, climb on heading 301° to 1600, then climbing left turn to intercept the TTE R-300 to TULE (TTE) VOR/DME thence...
...cross TTE VOR/DME at or above MEA for the route of flight before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 12, vehicle on road 175' from DER, 252' right of centerline, 307' MSL.
Vehicle on road 178' from DER, 248' left of centerline, 308' MSL.
Tree 758' from DER, 616' right of centerline, 62' AGL/356' MSL.
Tree 1302' from DER, 817' left of centerline, 61' AGL/356' MSL.
Tree 3155' from DER, 737' left of centerline, 85' AGL/380' MSL.
Rwy 30, sign 17' from DER, 249' left of centerline, 3' AGL/292' MSL.
Fence beginning 59' from DER, 416' left of centerline, up to 7' AGL/296' MSL.
Trees, vehicle on road beginning 186' from DER, 269' left of centerline, up to 40' AGL/330' MSL.
CON'T

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VISALIA, CA (CON'T)

VISALIA MUNI (VIS) (CON'T

Rwy 30 (CON'T), building 291' from DER, 249' right of centerline, 15' AGL/305' MSL.
Trees, vehicle on road beginning 791' from DER, 232' left of centerline, up to 332' MSL.
Building 849' from DER, 663' right of centerline, 327' MSL.
Tree 2663' from DER, 341' left of centerline, 370' MSL.
Tree 3035' from DER, 415' left of centerline, 379' MSL.

WATSONVILLE, CA

WATSONVILLE MUNI (WVI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:
Rwy 27, NA - airport obstacles.
DEPARTURE PROCEDURE:
Rwys 2, 9, 20, use WATSONVILLE DEPARTURE.
TAKEOFF OBSTACLE NOTES:
Rwy 2, lighting 8' from DER, 84' left of centerline, 1' AGL/159' MSL.
Lighting 9' from DER, 84' right of centerline, 158' MSL.
Pole 14' from DER, 349' left of centerline, 205' MSL.
Pole, building, vehicles on road, tree and fence beginning 15' from DER, 322' left of centerline, up to 50' AGL/213' MSL.
Trees beginning 278' from DER, 414' right of centerline, up to 188' MSL.
pole, vehicles on road, stack, tree and building beginning 429' from DER, 157' left of centerline, up to 58' AGL/220' MSL.
pole, building and tree beginning 808' from DER, 22' right of centerline, up to 40' AGL/198' MSL.
Tree and transmission line beginning 1021' from DER, 137' right of centerline, up to 222' MSL.
Pole 1174' from DER, 328' right of centerline, 57' AGL/224' MSL.
Trees beginning 1275' from DER, 298' right of centerline, up to 242' MSL.
Tree 1345' from DER, 320' left of centerline, 236' MSL.
Tree 2249' from DER, 371' left of centerline, 264' MSL.
Rwy 9, tree and pole beginning 1' from DER, 152' left of centerline, up to 157' MSL.
Pole 65' from DER, 301' right of centerline, 31' AGL/148' MSL.
tree, fence, building, vehicles on road and pole beginning 74' from DER, 251' left of centerline, up to 160' MSL.
Pole, tree, building, tank and stack beginning 210' from DER, 139' left of centerline, up to 177' MSL.
Pole 231' from DER, 250' right of centerline, 32' AGL/153' MSL.
Trees beginning 312' from DER, 560' right of centerline, up to 173' MSL.
Tower, pole and tree beginning 828' from DER, 136' left of centerline, up to 52' AGL/181' MSL.
Trees beginning 915' from DER, 146' right of centerline, up to 197' MSL.
Tree 1815' from DER, 365' left of centerline, 215' MSL.
Tower 4697' from DER, 1365' right of centerline, 189' AGL/292' MSL.
Rwy 20, tree 57' from DER, 500' left of centerline, 153' MSL.
Fence 57' from DER, 268' right of centerline, 7' AGL/143' MSL.
Pole 95' from DER, 467' left of centerline, 175' MSL.
pole, vehicles on road and tree beginning 96' from DER, 377' left of centerline, up to 50' AGL/183' MSL.
Transmission line 848' from DER, 505' left of centerline, 44' AGL/184' MSL.
Tree and transmission line beginning 919' from DER, 520' left of centerline, up to 190' MSL.
Tree 1153' from DER, 286' right of centerline, 169' MSL.
Tree 1207' from DER, 615' left of centerline, 197' MSL.
Tree, building and transmission line beginning 1267' from DER, 318' left of centerline, up to 203' MSL.
Tree 1336' from DER, 7' right of centerline, 177' MSL.
Tree 1337' from DER, 46' right of centerline, 192' MSL.
Tree 2201' from DER, 776' right of centerline, 240' MSL.

WEED, CA

WEED (O46)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22JUN17 (17173) (FAA)

DEPARTURE PROCEDURE:
Use FOBRO (RNAV) DEPARTURE.

WILLITS, CA

ELLS FLD/WILLITS MUNI (O28)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05AUG04 (21336) (FAA)

DEPARTURE PROCEDURE:
Rwy 16, use MENDOCINO RNAV DEPARTURE.
Rwy 34, use FLUEN RNAV DEPARTURE.

WILLOWS, CA

WILLOWS/GLENN COUNTY (WLW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 22JUN17 (22027) (FAA)

DEPARTURE PROCEDURE:

Rwy 13, climbing right turn heading 150 to 1000 thence...
Rwy 16, climbing left turn heading 145 to 1000 thence...
Rwy 31, climbing left turn heading 140 to 1000 thence...
Rwy 34, climbing right turn heading 150 to 1000 thence…
...all aircraft continue climb direct ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 13, vehicles beginning 325' from DER, 563' left of centerline, up to 17' AGL/146' MSL.
Rwy 16, poles beginning 14' from DER, 409' right of centerline, up to 35' AGL/172' MSL.
Tree 232' from DER, 436 left of centerline, 149' MSL.
Rwy 34, tower 869' from DER, 434' right of centerline, 55' AGL/196 MSL.
Pole 909' from DER, 305 right of centerline, 24' AGL/165' MSL.

WOODLAND, CA

WATTS-WOODLAND (O41)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 07MAY09 (09127) (FAA)

DEPARTURE PROCEDURE:

Rwy 18, climb heading 185° and ILA R-151 to EMBER INT/ILA 48 DME before proceeding on course.
Rwy 36, climbing left turn via heading 320° and ILA R-145 to ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 18, tree 2478' from DER, 283' right of centerline, 100' AGL/249' MSL.
Vehicle on road 192' from DER, on centerline, 15' AGL/144' MSL.
Rwy 36, tree 453' from DER, 69' left of centerline, 100' AGL/224' MSL.
Vehicle on road 350' from DER, on centerline, 15' AGL/134' MSL.
Tree 4489' from DER, 1688' left of centerline, 100' AGL/234' MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability. ⚠NA designation on the approach chart means that pilots may not use that approach as an alternate due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Approaches with the ⚠NA designation are not listed in this section. ⚠ designation on the approach chart indicates that the approach procedure has non-standard minimums (for aircraft other than helicopters) or restrictions (for all users) for its use as an alternate. A procedure is not authorized for alternate flight planning purposes when local weather is not available.

MILITARY USERS NOTE: For IFR alternate airport and minima planning, refer to appropriate service directives.

Alternate Minima (ref: 14 CFR 91.169)

	Precision Approach	Non-Precision Approach
Standard	**600-2**	**800-2**
⚠Non-Standard or restrictions	As indicated below	As indicated below
Helicopters	For the selected approach: Ceiling: 200' above published ceiling Visibility: the greater of 1 SM visibility or the published visibility	

Note: For alternate airport flight planning purposes, precision approach operations include: ILS, PAR, and GLS, and Non-Precision approach operations include: NDB, VOR, LOC, TACAN, LDA, SDF, ASR, RNAV (GPS) and RNAV (RNP).

NAME — ALTERNATE MINIMUMS

ALTURAS, CA
ALTURAS MUNI (AAT)……**RNAV (GPS) Rwy 31**
Cat B 900-2.

ARCATA/EUREKA, CA
CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY (ACV)……**RNAV (GPS) Rwy 1[1]**
RNAV (GPS) Rwy 32[2]
[1]Cat A, B 900-2, Cat C 900-2½, Cat D 900-2¾.
[2]Cat D 800-2¼.

ATWATER, CA
CASTLE (MER)……**ILS or LOC Rwy 31**
NA when local weather not available.
NA when control tower closed.

AUBURN, CA
AUBURN MUNI (AUN)……**RNAV (GPS) Rwy 7**
NA when local weather not available.
Cat B 900-2.

BISHOP, CA
BISHOP (BIH)……**LDA Rwy 17[1]**
RNAV (GPS) Y Rwy 12[2]
RNAV (GPS) Z Rwy 12[3]
[1]Cat A, B 2300-2, Cat C, D 2300-3.
[2]Cat A, B 2500-2, Cat C 2500-3.
[3]Cat A, B 2300-2, Cat C 2300-3.

BYRON, CA
BYRON (C83)……**RNAV (GPS) Rwy 30**
Cat D 800-2½.

NAME — ALTERNATE MINIMUMS

CHESTER, CA
ROGERS FLD (O05)……**RNAV (GPS) Rwy 34**
Cat A 1000-2, Cat B 1200-2, Cat C 1200-3.

CHICO, CA
CHICO RGNL (CIC)……**ILS or LOC Rwy 13L**
RNAV (GPS) Rwy 13L
NA when local weather not available.

COALINGA, CA
NEW COALINGA MUNI (C80)……**RNAV (GPS) Rwy 30**
NA when local weather not available.
Cat C 800-2¼, Cat D 1100-3.

CONCORD, CA
BUCHANAN FLD (CCR)……**LDA Rwy 19R[12]**
RNAV (GPS) Rwy 19R[3]
VOR Rwy 19R[3]
[1]NA when control tower closed.
[2]Cat C 1000-2¾, Cat D 1300-3.
[3]Cat A, B 1000-2, Cat C 1000-3, Cat D 1300-3.

COLUMBIA, CA
COLUMBIA (O22)……**RNAV (GPS) Rwy 35**
NA when local weather not available.
Cat A, B 1100-2, Cat C 1100-3.

SW-2, 09 JUL 2026 to 03 SEP 2026

NAME ALTERNATE MINIMUMS

CRESCENT CITY, CA
JACK MC NAMARA
FLD (CEC)……**RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 36
VOR Rwy 12
VOR/DME Rwy 12
VOR/DME Rwy 36
NA when local weather not available.

DAVIS, CA
UNIVERSITY (EDU)……**RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
NA when local weather not available.

FRESNO, CA
FRESNO CHANDLER
EXEC (FCH)……**RNAV (GPS) Rwy 12**
NA when local weather not available.

FRESNO YOSEMITE
INTL (FAT)……**ILS Y or LOC Y Rwy 29R[1]**
LOC Y Rwy 11L[2]
TACAN Rwy 11L[3]
TACAN Rwy 29R[2]
[1]LOC Cat E 900-2¾.
[2]Cat E 900-2¾.
[3]Cat E 900-2.

GRASS VALLEY, CA
NEVADA COUNTY (GOO)……**RNAV (GPS) Rwy 7**
NA when local weather not available.
Cat D 800-2¼.

HAYWARD, CA
HAYWARD EXEC (HWD)……**LOC Rwy 28L[1]**
RNAV (GPS) Rwy 28L
NA when local weather not available.
Cat D 900-2¾.
[1]NA when control tower closed.

HOLLISTER, CA
HOLLISTER MUNI (CVH)……**RNAV (GPS) Rwy 13[1]**
RNAV (GPS) Rwy 31[2]
NA when local weather not available.
[1]Cat A, B, C 900-2½.
[2]Cat C 800-2½.

LINCOLN, CA
LINCOLN RGNL/KARL
HARDER FLD (LHM)……**RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
NA when local weather not available.

LITTLE RIVER, CA
LITTLE RIVER (LLR)……**RNAV (GPS) Rwy 29**
Cat D 900-2¾.

NAME ALTERNATE MINIMUMS

LIVERMORE, CA
LIVERMORE MUNI (LVK)……**ILS Rwy 25R[12]**
LOC Rwy 25R[34]
RNAV (GPS) Rwy 25R[5]
[1]NA when local weather not available.
[2]NA when control tower closed.
[3]NA when tower closed.
[4]Cat A, B 1600-2, Cat C, D 1600-3.
[5]Cat D 1400-3.

MAMMOTH LAKES, CA
MAMMOTH
YOSEMITE (MMH)……**RNAV (GPS) Rwy 27**
Cat A, B 1200-4, Cat C 1500-5.

MADERA, CA
MADERA MUNI (MAE)……**RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

MARIPOSA, CA
MARIPOSA-YOSEMITE (MPI)……**RNAV (GPS)-A**
NA when local weather not available.
Cat A 1900-2, Cat B 2000-2.

MARYSVILLE, CA
YUBA COUNTY (MYV)……**RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

MODESTO, CA
MODESTO CITY-COUNTY-HARRY SHAM
FLD (MOD)……**ILS or LOC Rwy 28R[12]**
RNAV (GPS) Rwy 28R[3]
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC Cat D 800-2¼.
[3]Cat D 800-2½.

MONTEREY, CA
MONTEREY
RGNL (MRY)……**ILS or LOC Rwy 10R[12]**
LOC Rwy 28L[13]
RNAV (GPS) Rwy 10R[4]
RNAV (GPS) Y Rwy 28L[5]
[1]NA when control tower closed.
[2]LOC Cat C 1100-3, Cat D NA.
[3]Cat A, B 1700-2, Cat C, D 1700-3.
[4]Cat C 1100-3, Cat D 800-2½.
[5]Cat A, B 900-2, Cat C 1100-3.

SW-2, 09 JUL 2026 to 03 SEP 2026

NAME ALTERNATE MINIMUMS

MOUNTAIN VIEW, CA
MOFFET FEDERAL AIRFIELD (NUQ)…….....…**ILS or LOC Rwy 32R**[12]
LOC Rwy 14L[136]
RNAV (GPS) Rwy 14L[4]
RNAV (GPS) Rwy 14R[4]
RNAV (GPS) Rwy 32L[4]
RNAV (GPS) Rwy 32R[36]
TACAN Rwy 32L[15]
TACAN Rwy 32R[15]
[1]NA when tower closed.
[2]LOC Cat D 800-2½, Cat E 1000-3.
[3]Cat D 800-2½.
[4]Cat D 800-2¼.
[5]Cat D 800-2½, Cat E 1000-3.
[6]NA when local weather not available.

NAPA, CA
NAPA COUNTY (APC)….**ILS Z or LOC Z Rwy 1L**[12]
RNAV (GPS) Rwy 6[3]
RNAV (GPS) Rwy 19R[4]
RNAV (GPS) Y Rwy 1L[5]
RNAV (GPS) Z Rwy 1L
VOR Rwy 6[6]
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC Cat C, D 1300-3.
[3]Cat A, B 1400-2, Cat C, D 1400-3.
[4]Cat C, D 1300-3.
[5]Cat A, B, C, D 1400-5.
[6]Cat A, B 1100-2, Cat C, D 1300-3.

NOVATO, CA
GNOSS FLD (DVO)…….....**RNAV (GPS) Rwy 13**
NA when local weather not available.
Cat A, B 1100-2.

OAKLAND, CA
OAKLAND SAN FRANCISCO BAY (OAK)……..**ILS or LOC Rwy 12**[1]
ILS or LOC Rwy 28R[2]
ILS or LOC Rwy 30[2]
RNAV (GPS) Rwy 10L[3]
RNAV (GPS) Rwy 10R[3]
RNAV (GPS) Y Rwy 12[3]
RNAV (GPS) Y Rwy 28L[3]
RNAV (GPS) Y Rwy 28R[3]
RNAV (GPS) Y Rwy 30[3]
VOR Rwy 10R[3]
[1]ILS Cat C 700-2, Cat D 1400-3; LOC Cat D 1400-3.
[2]LOC Cat D 1400-3.
[3]Cat D 1400-3.

PALO ALTO, CA
PALO ALTO (PAO)……...**RNAV (GPS) Rwy 31**
NA when control tower closed.

NAME ALTERNATE MINIMUMS

PETALUMA, CA
PETALUMA MUNI (O69)…….**RNAV (GPS) Rwy 29**
NA when local weather not available.
Cat B 900-2.

PLACERVILLE, CA
PLACERVILLE (PVF)……**RNAV (GPS) Rwy 5**
NA when local weather not available.
Cat B 900-2.

PORTERVILLE, CA
PORTERVILLE MUNI (PTV)……**VOR-A**
NA when local weather not available.

RED BLUFF, CA
RED BLUFF MUNI (RBL)…...**RNAV (GPS) Rwy 15**[1]
RNAV (GPS) Rwy 33
VOR Rwy 33
VOR/DME Rwy 15[1]
NA when local weather not available.
[1]Cat D 800-2¼.

REDDING, CA
REDDING RGNL (RDD)……..**ILS or LOC Rwy 35**[12]
LOC BC Rwy 17[13]
RNAV (GPS) Rwy 17[3]
RNAV (GPS) Rwy 35[3]
VOR Rwy 35[4]
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC Cat D 900-2¾, Cat E 900-3.
[3]Cat D 900-2¾.
[4]Cat A, B 1200-2, Cat C, D 1200-3.

SACRAMENTO, CA
SACRAMENTO EXE (SAC)…..**ILS or LOC Rwy 2**[12]
RNAV (GPS) Rwy 2[3]
VOR Rwy 2[3]
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC Cat D 800-2½.
[3]Cat D 800-2½.

SACRAMENTO INTL (SMF)...……**ILS or LOC Rwy 17L**[1]
RNAV (GPS) Y Rwy 17L[2]
RNAV (GPS) Y Rwy 35R[2]
[1]LOC Cat D 900-2¾.
[2]Cat D 900-2¾.

SACRAMENTO MATHER (MHR).....**ILS Y or Y LOC Rwy 22L**[12]
ILS Z or Z LOC Rwy 22L[12]
RNAV (GPS) Rwy 4R
RNAV (GPS) Rwy 22L[3]
RNAV (GPS) Rwy 22R[3]
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC Cat D 800-2¼, Cat E 800-2½.
[3]Cat D 800-2¼.

NAME ALTERNATE MINIMUMS

SALINAS, CA
SALINAS MUNI (SNS)……**ILS Rwy 31[1]**
LOC Rwy 31[12]
RNAV (GPS) Rwy 8[3]
RNAV (GPS) Rwy 13[2]
RNAV (GPS) Y Rwy 31[2]
RNAV (GPS) Z Rwy 31
VOR Rwy 13[4]
NA when local weather not available.
[1]NA when control tower closed.
[2]Cat D 1600-3.
[3]Cat D 1500-3.
[4]Cat D 900-2¾.

SAN ANDREAS, CA
CALAVERAS COUNTY/MAURY
RASMUSSEN FLD (CPU)…..**RNAV (GPS) Rwy 31**
Cat C 1100-3.

SAN CARLOS, CA
SAN CARLOS (SQL)……**RNAV (GPS) Y Rwy 30[1]**
RNAV (GPS) Z Rwy 30[2]
NA when local weather not available.
[1]Cat A, B 1300-2.
[2]Cat A, B 900-2.

SAN FRANCISCO, CA
SAN FRANCISCO
INTL (SFO)……..**ILS or LOC Rwy 19L[1]**
ILS or LOC Rwy 28L[2]
ILS or LOC Rwy 28R[3]
RNAV (GPS) Rwy 10L[4]
RNAV (GPS) Rwy 19L[5]
RNAV (GPS) Rwy 28L[6]
RNAV (GPS) U Rwy 28R[7]
RNAV (GPS) Y Rwy 10R[8]
RNAV (GPS) Y Rwy 19R[9]
RNAV (GPS) Z Rwy 28R[a]
RNAV (RNP) Z Rwy 10R[b]
[1]ILS Cat A, B, C, D 800-2; LOC Cat A, B 1800-2, Cat C, D 1800-3.
[2]ILS Cat A, B, C, D 800-2½; LOC Cat A 900-2, Cat B 1000-2, Cat C 1600-3, Cat D 900-2½.
[3]LOC Cat B 1000-2, Cat C 1600-3.
[4]Cat A, B 1100-2, Cat C, D 1100-3.
[5]Cat A, B 1100-2, Cat C, D 1100-2½.
[6]Cat A, B 1100-2, Cat C 1600-3, Cat D 1100-2½.
[7]Cat A, B, C, D 1000-3.
[8]Cat A, B 1200-2, Cat C, D 1200-3.
[9]Cat A, B, C, D 1400-4.
[a]Cat B 1100-2, Cat C 1700-3.
[b]Cat A, B, C, D 1100-4.

SAN JOSE, CA
NORMAN Y MINETA SAN JOSE
INTL (SJC)……**ILS or LOC Rwy 30L**
NA when control tower closed.

NAME ALTERNATE

SAN MARTIN, CA
SAN MARTIN (E16)……**RNAV (GPS) Rwy 32**
NA when local weather not available.
Cat A, B 1100-2.

SANTA ROSA, CA
CHARLES M SCHULZ/SONOMA
COUNTY (STS)……**ILS or LOC Rwy 32[123]**
RNAV (GPS) Rwy 2[4]
RNAV (GPS) Rwy 14[4]
RNAV (GPS) Rwy 32[14]
[1]NA when local weather not available.
[2]NA when control tower closed.
[3]LOC Cat C 1000-3, Cat D 1300-3.
[4]Cat C 1000-3, Cat D 1300-3.

STOCKTON, CA
STOCKTON
METRO (SCK)……**ILS or LOC Rwy 29R**
NA when control tower closed.

SUSANVILLE, CA
SUSANVILLE MUNI (SVE)…..**RNAV (GPS) Rwy 29**
Cat A, B 1700-2, Cat C 1700-3, Cat D 2000-3.
NA when local weather not available.

TRACY, CA
TRACY MUNI (TCY)……**RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 26
NA when local weather not available.

TRUCKEE, CA
TRUCKEE-TAHOE (TRK)……**RNAV (GPS)-A[1]**
RNAV (GPS) Rwy 11[2]
RNAV (GPS) Rwy 20[3]
NA when local weather not available.
[1]Cat A, B 1600-2, Cat C 1800-3.
[2]Cat A, B 1900-2, Cat C 1900-3.
[3]Cat A 1300-2, Cat B 1400-2, Cat C 1800-3.

UKIAH, CA
UKIAH MUNI (UKI)……**LOC Rwy 15[1]**
RNAV (GPS)-B[2]
RNAV (GPS) RWY 15[1]
VOR-A[3]
[1]Cat A, B 1700-2, Cat C 1700-3, Cat D 2200-3.
[2]Cat A, B 1500-2, Cat C 1600-3, Cat D 2200-3.
[3]Cat A, B 2800-2, Cat C, D 2800-3.

VACAVILLE, CA
NUT TREE (VCB)……**RNAV (GPS) Rwy 20[12]**
VOR-A[3]
[1]NA when local weather not available.
[2]Cat C 900-2½, Cat D 1400-3.
[3]Cat A, B 900-2, Cat C 900-2½, Cat D 1300-3.

NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE

VISALIA, CA

VISALIA MUNI (VIS)……..…..**ILS or LOC Rwy 30**
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.

WATSONVILLE, CA

WATSONVILLE
MUNI (WVI)……**RNAV (GPS) Rwy 2**[1]
VOR-A[2]

NA when local weather not available.
[1]Cat D 1100-3.
[2]Cat A, B 1200-2, Cat C, D 1200-3.

SW-2, 09 JUL 2026 to 03 SEP 2026

RADAR INSTRUMENT APPROACH MINIMUMS

LEMOORE NAS (REEVES FIELD) (KNLC)

Lemoore, CA Amdt 9 12JUN25 (25163) (USN) ELEV **228**

RADAR - (E) 125.95 270.8x 314.0x 317.575x 322.45x 323.15x 336.4x 346.375x 348.75x 353.55x 363.7x 370.875x 377.075x

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR[1 2]	32L[3 4]	3.0°/40/762	ABCDE	**327**-¼	100	(100-¼)
	14L	3.0°/54/1019	ABCDE	**319**-½	100	(100-½)
	14R[5]	3.0°/52/998	ABCDE	**328**-½	100	(100-½)
	32R[5]	3.0°/46/876	ABCDE	**321**-½	100	(100-½)
ASR[2]	32L[6 7]		AB	**600**-½	373	(400-½)
			CDE	**600**-⅝	373	(400-⅝)
	14L		AB	**680**-1	461	(500-1)
			CDE	**680**-1⅜	461	(500-1⅜)
	14R[5]		AB	**760**-1	532	(600-1)
			CDE	**760**-1½	532	(600-1½)
	32R[5]		AB	**780**-1	559	(600-1)
			CDE	**780**-1⅝	559	(600-1⅝)
CIR[8]	14L, 32L		AB	**680**-1	452	(500-1)
			C	**680**-1½	452	(500-1½)
			D	**780**-2	552	(600-2)
			E	**800**-2	572	(600-2)
	14R		AB	**760**-1	532	(600-1)
			C	**760**-1½	532	(600-1½)
			D	**780**-2	552	(600-2)
			E	**800**-2	572	(600-2)
	32R		AB	**780**-1	552	(600-1)
			C	**780**-1⅝	552	(600-1⅝)
			D	**780**-2	552	(600-2)
			E	**800**-2	572	(600-2)

[1]No-NOTAM MP: PAR-Rwy 14R-32L 1600-2400Z++ Mon, Rwy 14L-32R 1600-2400Z++ Wed.
[2]Simultaneous approaches authorized.
[3]When ALS inop, increase vis to ½ mile.
[4]Caution: WCH 15 ft for group 4 less than required 20 ft.
[5]Pattern at 3000 ft.
[6]When ALS inop, increase vis to 1 mile.
[7]Step Down Fix at 3 NM from thld, 1100 min.
[8]Circling authorized only from ASR.

SW-2, 09 JUL 2026 to 03 SEP 2026

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS
26134

N1

24305

LAND AND HOLD-SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold-Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

CITY/AIRPORT	LDG RWY	HOLD-SHORT POINT	AVBL LDG DIST
NAPA, CA			
NAPA COUNTY (APC)	24	01L-19R	3,700 feet
SANTA ROSA, CA			
CHARLES M SCHULZ/SONOMA COUNTY (STS)	02	14-32	4,608 feet

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

24305

25331

HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or ellipses designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
ATWATER, CA		
CASTLE (MER)	HS 1	Twy A, Twy A1, Twy B, and Twy G complex int.
	HS 2	Twy A and southeast ramp, traffic congestion.
BEALE AFB, CA		
BEALE AFB (BAB)	HS 1	Twy B, high-speed U-2 mobile traffic when Rwy 15 in use.
	HS 2	Twy E, high-speed U-2 mobile traffic when Rwy 33 in use.
	HS 3	Twy F, in the vicinity of Twy C, Twy L, and Twy K. Frequent U-2 and high speed mobile traffic, slope of the twy limits visibility in both directions.
CONCORD, CA		
BUCHANAN FLD (CCR)	HS 1	Wrong SFC Departure Risk. Rwy 32L Run-up area and Twy J. Twy J can be mistaken for Rwy 32L.
	HS 2	Risk of runway incursion and/or surface incident. Twy J, Twy A, Twy C, and Twy K. Expanse pavement and complex geometry due to converging Twys.
	HS 3	Runway incursion risk. Rwy 32L apch hold area on Twy A between Twys J and B. Holding Position Marking in an unexpected location.
	HS 4	Rwy incursion risk. Twys J, B and Rwy 32R run-up area. Potential for expectation bias of run-up area location, and loss of situational awareness due to wide expanse of pavement.
FAIRFIELD, CA		
TRAVIS AFB (SUU)	HS 1	Twy G/H and Rwy 21R/03L intersection is vehicle crossing and single Rwy 21L/03R entry/exit point. Expect high vehicle and aircraft traffic.
HAYWARD, CA		
HAYWARD EXEC (HWD)	HS 1	Rwy 10L-28R, Twy E and Twy A.
	HS 2	Area not visible from ATCT.
	HS 3	Area not visible from ATCT.
	HS 4	Area not visible from ATCT.
	HS 5	Rwy 28L hold bars on Twy A1 and Twy Z1.
LIVERMORE, CA		
LIVERMORE MUNI (LVK)	HS 1	Pilots instructed to hold short of Rwy 25R at Twy B sometimes fail to comply. Pilots sometimes land on Rwy 25R without clearance.
	HS 2	Pilots instructed to hold short of Rwy 25L at Twy C sometimes fail to comply.
	HS 3	Pilots instructed to hold short of Rwy 07L at Twy H sometimes fail to comply.
	HS 4	Pilots instructed to hold short of Rwy 07R at Twy G sometimes fail to comply.
	HS 5	Pilots instructed to hold short of Rwy 25R at Twy G sometimes fail to comply.
	HS 6	Pilots may be confused at the intersections of Twy J, Twy A, and Twy G sometimes fail to comply with taxi instructions.

(SEE CONTINUATION PAGE FOR MORE LISTINGS)

25331

SW-2, 09 JUL 2026 to 03 SEP 2026

25331

HOT SPOTS

(CONTINUED)

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
NAPA, CA		
NAPA COUNTY (APC)	HS 1	Surface Incident Risk. Twy A, Twy A2, Twy C, Twy E, and the ramp. Complex geometry due to converging Twys.
	HS 2	Runway Incursion Risk. Twy A at Rwy 24. Short distance from ramp to Rwy.
	HS 3	Runway Incursion Risk. Rwy 1L, Rwy 6, and Twy H. Aircraft taxiing outbound for departure will encounter runway position hold markings in an unexpected location. Aircraft landing Rwy 19R, must receive ATC authorization to exit onto Rwys 06-24.
OAKLAND, CA		
OAKLAND SAN FRANCISCO BAY (OAK)	HS 1	Rwy 28R, Twy A and Twy B.
	HS 2	Rwy 10L-28R, Twy H, Twy G, Twy C and Twy D.
	HS 3	Runway incursion risk. Twy C between Twy C1 and Twy J. APCH/DEP hold in effect when instructed by ATC.
SACRAMENTO, CA		
SACRAMENTO EXEC (SAC)	HS 1	Inbound Twy A and outbound Twy B.
	HS 2	Portion of Twy E not visible from twr.
SACRAMENTO, CA		
SACRAMENTO INTL (SMF)	HS 1	Twy Y2 between Concourse A and Concourse B.
	HS 2	Vehicle Service Road crossing Twy W and Twy Y.
	HS 3	Twy A at the int of Twy A13, Twy G1 and Twy P.
SAN FRANCISCO, CA		
SAN FRANCISCO INTL (SFO)	HS 1	Complex int Twy B and Twy F.
	HS 2	Rwy 01L-19R, Twy C and Twy E.
	HS 3	Acft exiting Rwy 28R on Twy T: Taxi aircraft up to and hold short of Rwy 28L unless specifically cleared to cross. Twy T has hold short lines for both Rwy 28R and Rwy 28L. Be sure to identify the correct hold short line for Rwy 28L to ensure aircraft tail is fully clear of Rwy 28R.
	HS 4	Runway incursion risk. ATC may request aircraft to hold on a RWY short of an intersection with another RWY. At runway intersections, vertical holding position signs exist with no surface painted markings. When instructed, pilots must hold short of the holding position signs.
SAN JOSE, CA		
NORMAN Y. MINETA SAN JOSE INTL (SJC)	HS 1	Rwy incursion risk. Rwy 30L at Twy D. Short distance from run-up area to Rwy.
SAN JOSE, CA		
REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)	HS 1	Numerous inbounds and outbounds at twy intersections Twy D, Twy Z, and Twy Y.
	HS 2	Maintain vigilance when maneuvering at Twy Y, Twy Z, and Twys Z1, Z2, Z3 and Z4.
SANTA ROSA, CA		
CHARLES M SCHULZ/ SONOMA COUNTY (STS)	HS 1	Twy A, Twy A5, Twy Z complex int in close proximity to Rwy 14-32.
	HS 2	South run-up area not visible from the twr.
	HS 3	North run-up area east of Twy A and Twy H int in close proximity of Rwy 20 Apch Hold.
	HS 4	Wrong rwy departure risk.

(SEE CONTINUATION PAGE FOR MORE LISTINGS)

25331

SW-2, 09 JUL 2026 to 03 SEP 2026

26022

HOT SPOTS

(CONTINUED)

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
STOCKTON, CA		
STOCKTON METRO (SCK)	HS 1	Closely spaced rwys on Twy H.
TRUCKEE, CA		
TRUCKEE-TAHOE (TRK)	HS 1	Simultaneous ops on Rwy 11-29 and Rwy 02-20.

*See appropriate Chart Supplement HOT SPOT table for additional information.

26022

SW-2, 09 JUL 2026 to 03 SEP 2026

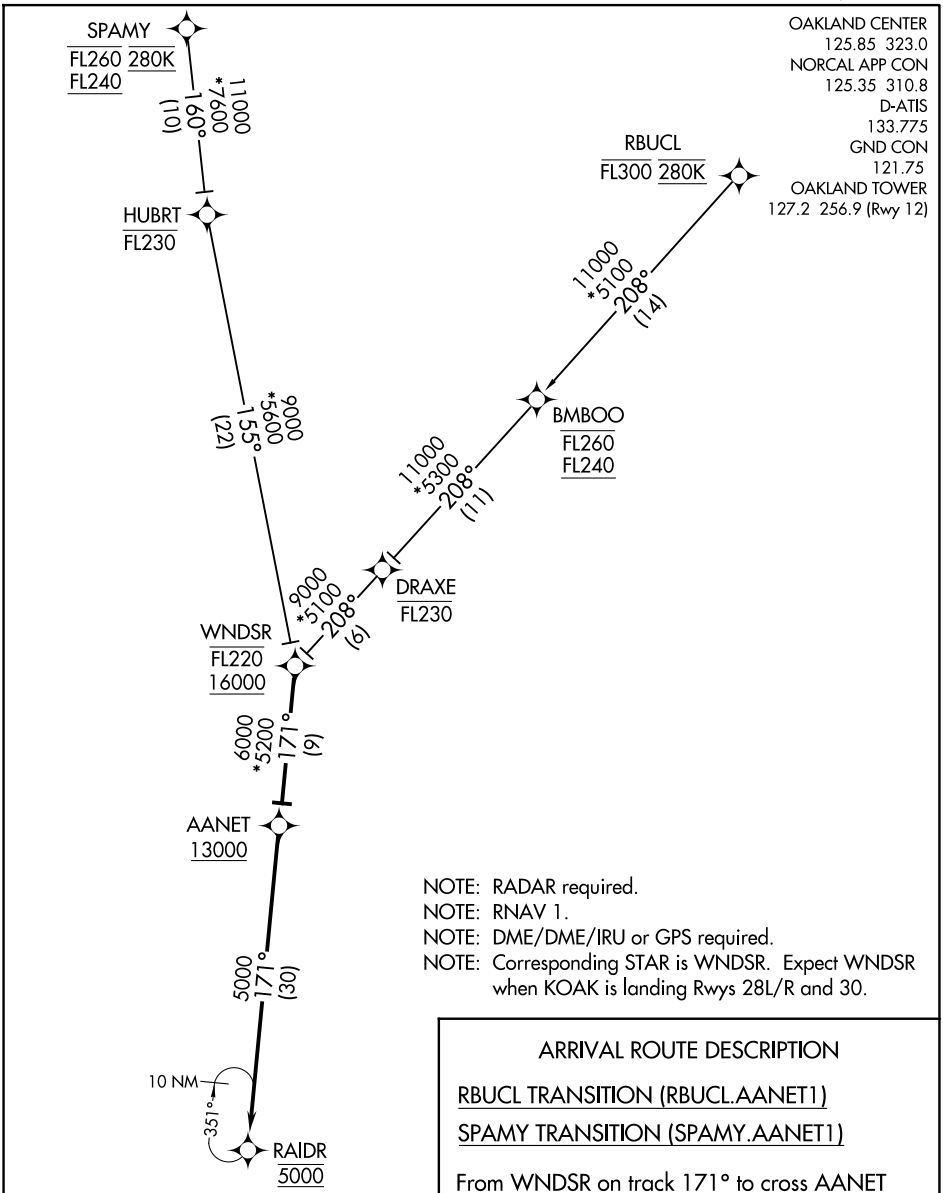
SW-2, 09 JUL 2026 to 03 SEP 2026

(WNDSR.AANET1) 25275

AANET ONE ARRIVAL (RNAV)

AL-294 (FAA)

OAKLAND SAN FRANCISCO BAY (OAK)
OAKLAND, CALIFORNIA



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Corresponding STAR is WNDSR. Expect WNDSR when KOAK is landing Rwys 28L/R and 30.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

RBUCL TRANSITION (RBUCL.AANET1)

SPAMY TRANSITION (SPAMY.AANET1)

From WNDSR on track 171° to cross AANET at or above 13000.

LANDING RUNWAY 12: From AANET on track 171° to cross RAIDR at 5000. Expect assigned instrument approach procedure.

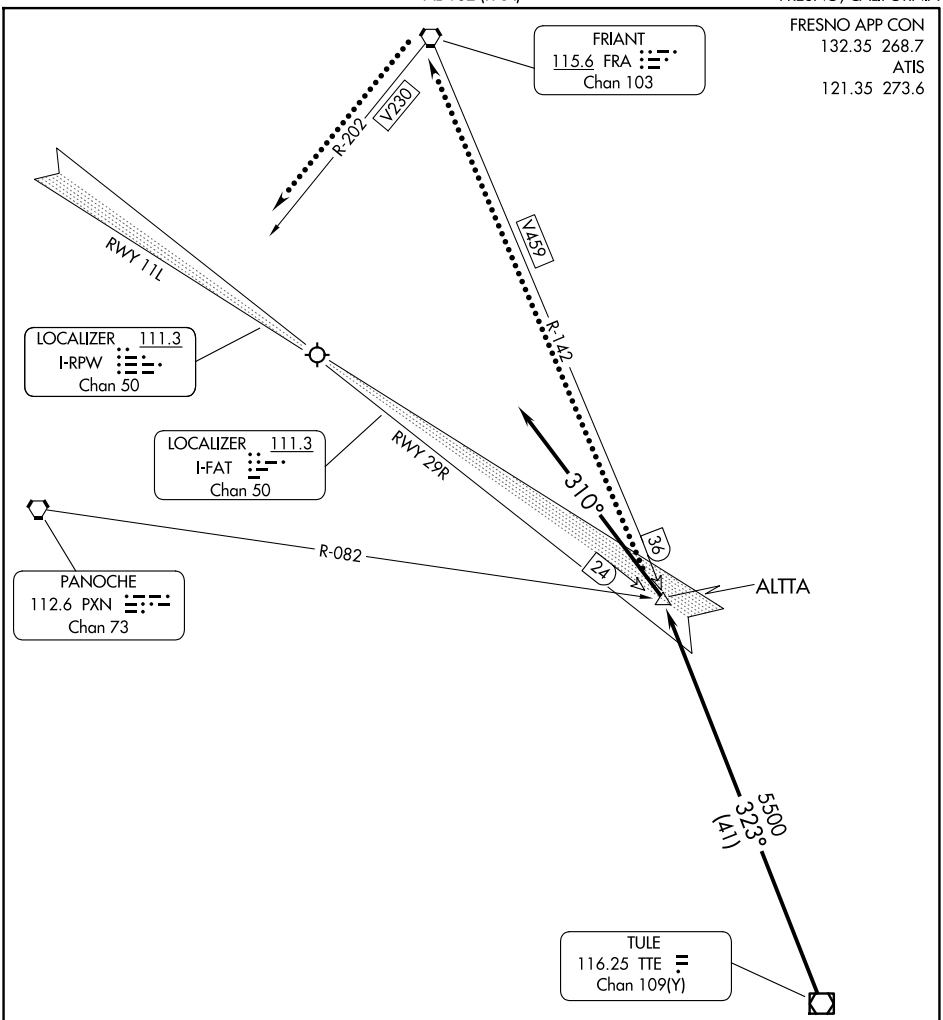
AANET ONE ARRIVAL (RNAV)

(WNDSR.AANET1) 05MAR15

OAKLAND, CALIFORNIA
OAKLAND SAN FRANCISCO BAY (OAK)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026



ARRIVAL ROUTE DESCRIPTION

From over TULE (TTE) VOR/DME on TTE R-323 and FRIANT (FRA) VORTAC R-142 to ALTTA. Expect ILS or LOC RWY 29R approach. For Rwy 11L operations: Depart ALTTA heading 310° and expect RADAR vectors to LOC Y RWY 11L.

LOST COMMUNICATIONS: Rwy 11L: Proceed to FRA VORTAC on V459, then on V230, execute the LOC Y RWY 11L approach.

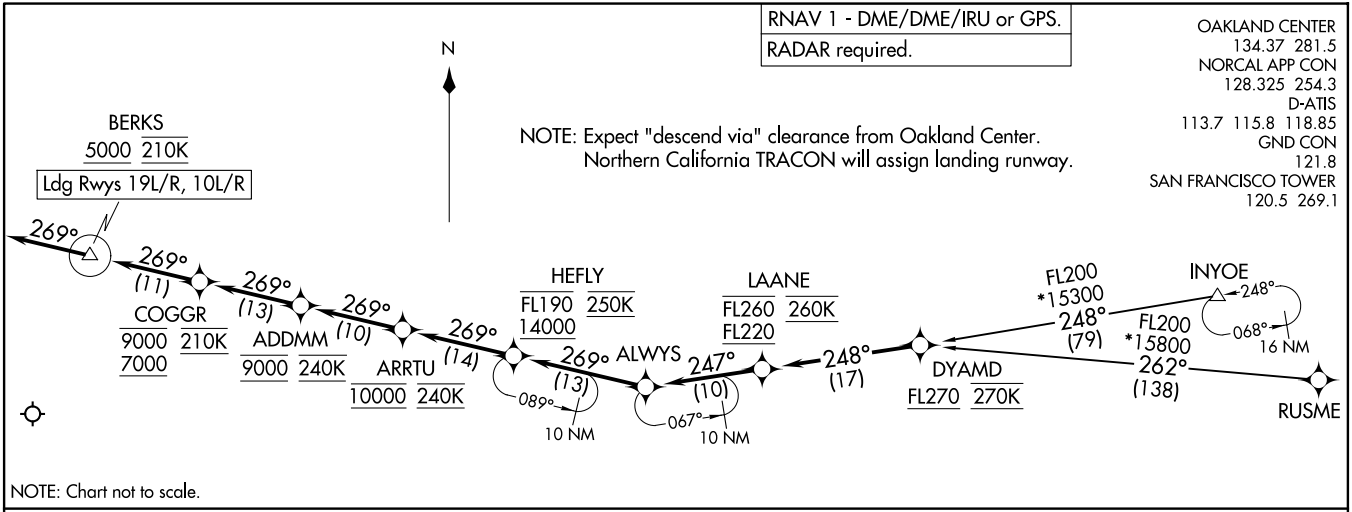
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ALWYS THREE ARRIVAL (RNAV)

(DYAMD.ALWYS3) 11JUL24

SAN FRANCISCO, CALIFORNIA

SAN FRANCISCO INTL (SFO)



ARRIVAL ROUTE DESCRIPTION

INYOE TRANSITION (INYOE.ALWYS3)

RUSME TRANSITION (RUSME.ALWYS3)

From DYAMD on track 248° to cross LAANE between FL220 and FL260 and at 260K, then on track 247° to ALWYS.

LANDING RUNWAYS 10L/R: From ALWYS on track 269° to cross HEFLY between 14000 and FL190 and at 250K, then on track 269° to cross ARRTU at 10000 and at 240K, then on track 269° to cross ADDMM at 9000 and at 240K, then on track 269° to cross COGGR between 7000 and 9000 and at 210K, then on track 269° to cross BERKS at or above 5000 and at 210K, then on track 269°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 19L/R: From ALWYS on track 269° to cross HEFLY between 14000 and FL190 and at 250K, then on track 269° to cross ARRTU at 10000 and at 240K, then on track 269° to cross ADDMM at 9000 and at 240K, then on track 269° to cross COGGR between 7000 and 9000 and at 210K, then on track 269° to cross BERKS at or above 5000 and at 210K, then on track 269°. Expect ILS or RNAV (GPS) approach to Rwy 19L, or RADAR vectors to final approach course.

ALWYS THREE ARRIVAL (RNAV)

(DYAMD.ALWYS3) 24193

SAN FRANCISCO INTL (SFO)

SAN FRANCISCO, CALIFORNIA

AL-375 (FAA)

Z3

AMRVR TWO ARRIVAL (RNAV)

(AMRVR.AMRVR2) 13SEP18

(AMRVR.AMRVR2) 24305

AMRVR TWO ARRIVAL (RNAV)

SACRAMENTO MATHER (MHR)

SACRAMENTO, CALIFORNIA

SACRAMENTO, CALIFORNIA

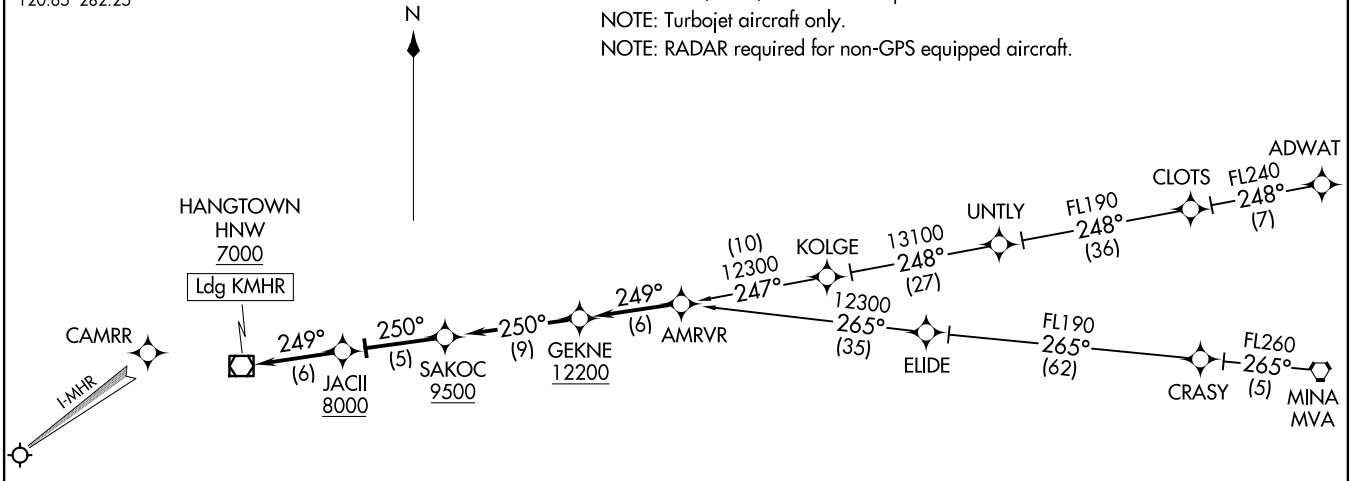
SACRAMENTO MATHER (MHR)

Z4

AL-356 (FAA)

NORCAL APP CON
127.4 317.5
ATIS
118.325
MATHER TOWER ★
120.65 282.25

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: RADAR required for non-GPS equipped aircraft.



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

ADWAT TRANSITION (ADWAT.AMRVR2)

MINA TRANSITION (MVA.AMRVR2)

. . . . From AMRVR on track 249° to cross GEKNE at or above 12200, then on track 250° to cross SAKOC at or above 9500, then on track 250° to cross JACII at or above 8000, then on track 249° to cross HNW VOR/DME at or above 7000. Expect ILS approach Runway 22L or visual approach.

(LOZIT.BDEGA4) 24221

BDEGA FOUR ARRIVAL (RNAV)

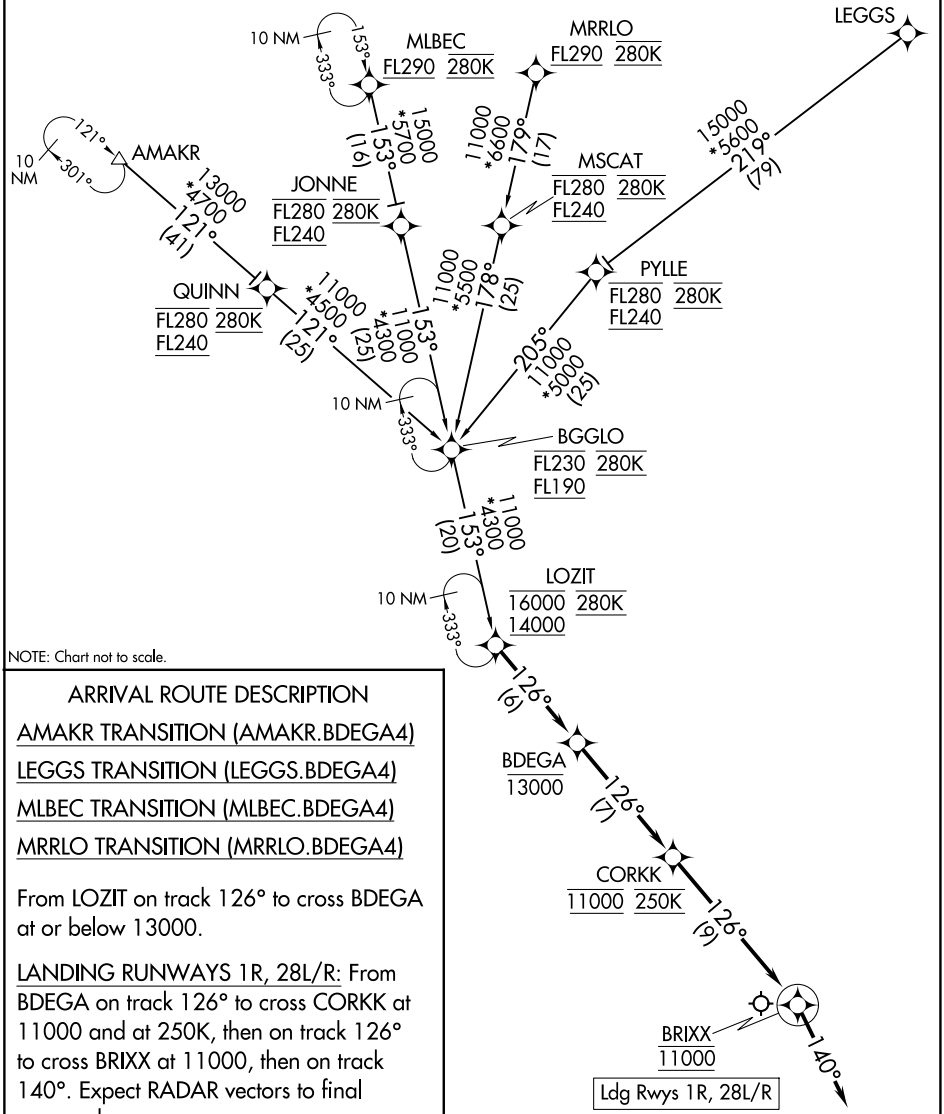
AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

OAKLAND CENTER
125.85 323.0
NORCAL APP CON
133.95 317.6
D-ATIS
113.7 115.8 118.85
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.

CBRNA



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

AMAKR TRANSITION (AMAKR.BDEGA4)

LEGGS TRANSITION (LEGGS.BDEGA4)

MLBEC TRANSITION (MLBEC.BDEGA4)

MRRLO TRANSITION (MRRLO.BDEGA4)

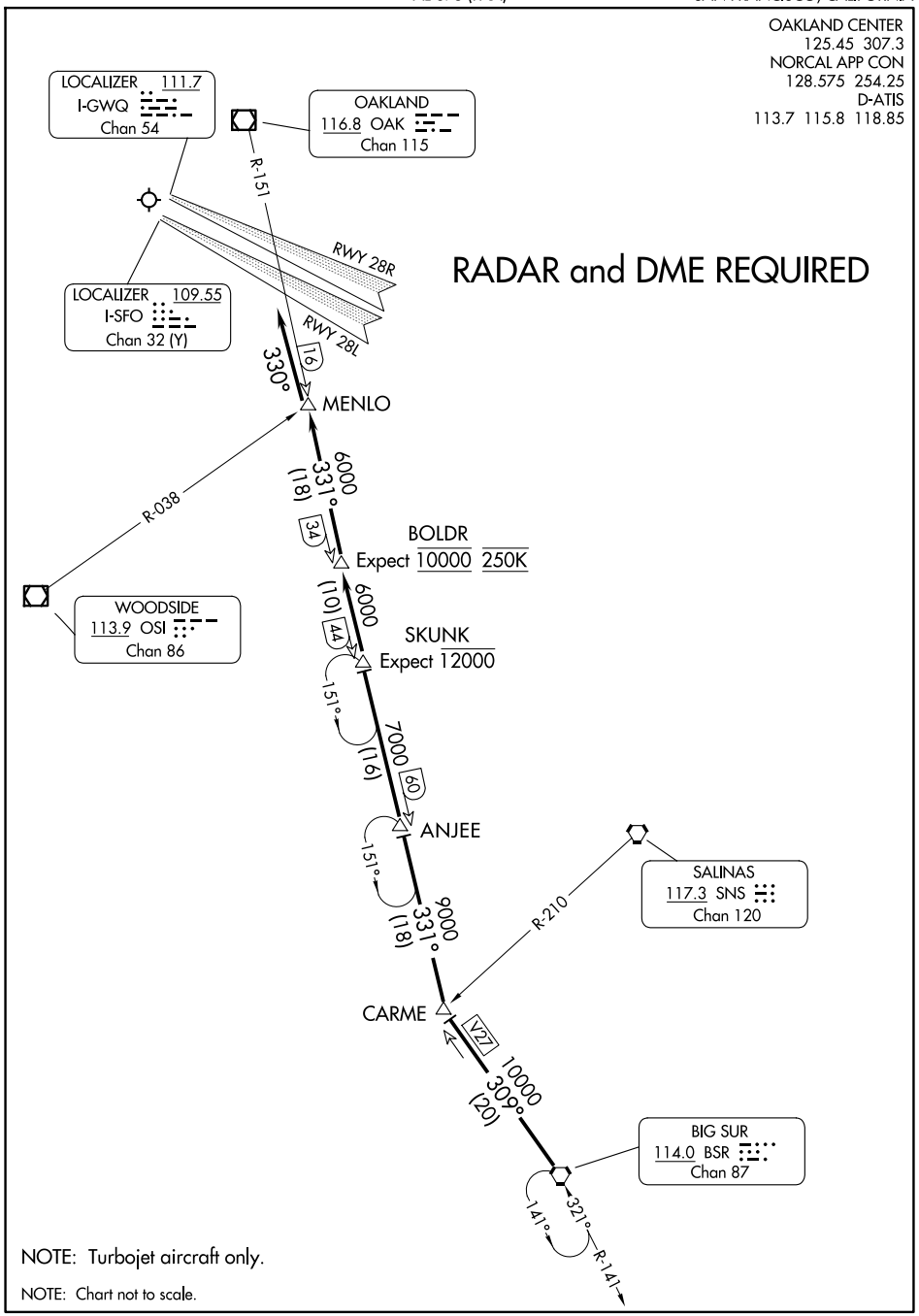
From LOZIT on track 126° to cross BDEGA at or below 13000.

LANDING RUNWAYS 1R, 28L/R: From BDEGA on track 126° to cross CORKK at 11000 and at 250K, then on track 126° to cross BRIXX at 11000, then on track 140°. Expect RADAR vectors to final approach course.

BDEGA FOUR ARRIVAL (RNAV)
(LOZIT.BDEGA4) 11JUL24

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

SW-2, 09 JUL 2026 to 03 SEP 2026



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(BMBER.BMBER1) 21112

BMBER ONE ARRIVAL (RNAV)

AL-5320 (FAA)

CONCORD, CALIFORNIA

OAKLAND CENTER
134.37 281.5
NORCAL APP CON
124.8 263.15
TRAVIS APP CON
126.6 306.9 (N)
119.9 322.325 (S)
CCR ATIS
124.7
KSUU D-ATIS
135.55 292.125
BUCHANAN FLD GND CON
121.9
TRAVIS AFB GND CON
121.8 289.4
CONCORD TOWER★
119.7 257.8
TRAVIS TOWER
120.75 254.4

SEATO 6000
9 NM
340°
160°
(29) 318°
(8) 312°
303°
REJOY 6000
TRAVIS AFB
FEVTA
BUCHANAN FLD
RAAAF 6000 230K (21)
267°
Ldg KSUU and KCCR
JOSBA 11000 10000
265° (17)
BMBER 15000 260K
(8) 4000
267°
ZOKMM 17000
5000
267° (9)
4000
308° (17)
GLDDD FL190
10000
308° (11)
FOOLZ FL210 FL200
12000
312° (14)
OTTEE FL240
15000
313° (9)
KAELA FL250 280K
17000
315° (49)
NURAY
6000
267° (8)
SHIZM FL200
OAKES FL220 280K
12000
246° (31)
MOLLA
15000
247° (47)
RPARK
12000
270° (31)
PEGYS
16000
271° (59)
PEMKE
N

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Landing KSUU: Expect RADAR vectors to Rwy 21L or 3L unless otherwise assigned by ATC.
NOTE: Landing KCCR: Expect Rwy 19R, unless otherwise assigned by ATC.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

BMBER ONE ARRIVAL (RNAV)
CONCORD, CALIFORNIA

(BMBER.BMBER1) 05DEC19

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ARRIVAL ROUTE DESCRIPTION

NURAY TRANSITION (NURAY.BMBER1)

PEMKE TRANSITION (PEMKE.BMBER1)

RPARK TRANSITION (RPARK.BMBER1)

LANDING KSUU, KCCR: From BMBER on track 265° to cross JOSBA between 10000 and 11000, then on track 267° to cross RAAAF at 6000 and at or below 230K, then on heading 303° or as assigned by ATC. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

KSUU: From RAAAF, proceed on track 318° to cross SEATO at 6000. Execute ILS or LOC RWY 21L or TACAN RWY 3L approach. If unable, hold at SEATO as depicted, maintain 6000 feet.

KCCR: From RAAAF, proceed on track 312° to cross REJOY at 6000 and execute RNAV, LDA, or VOR RWY 19R approach.

SW-2, 09 JUL 2026 to 03 SEP 2026

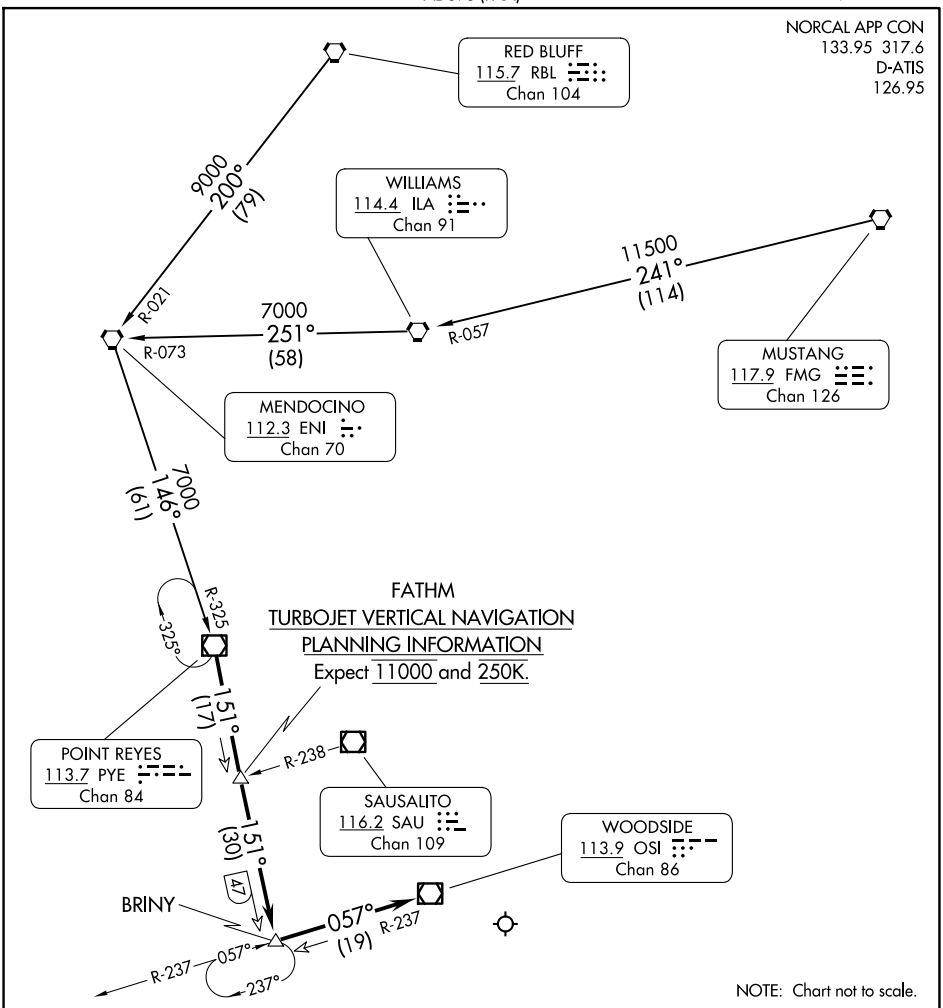
SW-2, 09 JUL 2026 to 03 SEP 2026

(PYE.BRINY2) 23334

BRINY TWO ARRIVAL

NORMAN Y MINETA SAN JOSE INTL (SJC)
SAN JOSE, CALIFORNIA

AL-693 (FAA)



ARRIVAL ROUTE DESCRIPTION

MENDOCINO TRANSITION (ENI.BRINY2): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VOR/DME. Thence . . . .

MUSTANG TRANSITION (FMG.BRINY2): From over FMG VORTAC via FMG R-241 to ILA VORTAC then via ILA R-251 to ENI VORTAC, then via ENI R-146 to PYE VOR/DME. Thence . . . .

RED BLUFF TRANSITION (RBL.BRINY2): From over RBL VORTAC via RBL R-200 and ENI R-146 to PYE VOR/DME. Thence . . . .

. . . . From over PYE VOR/DME via PYE R-151 to BRINY INT/DME, then via OSI R-237 to OSI VOR/DME. Expect RADAR vectors to Rwy 12R final approach course.

SW-2, 09 JUL 2026 to 03 SEP 2026

BRIXX FOUR ARRIVAL (RNAV)

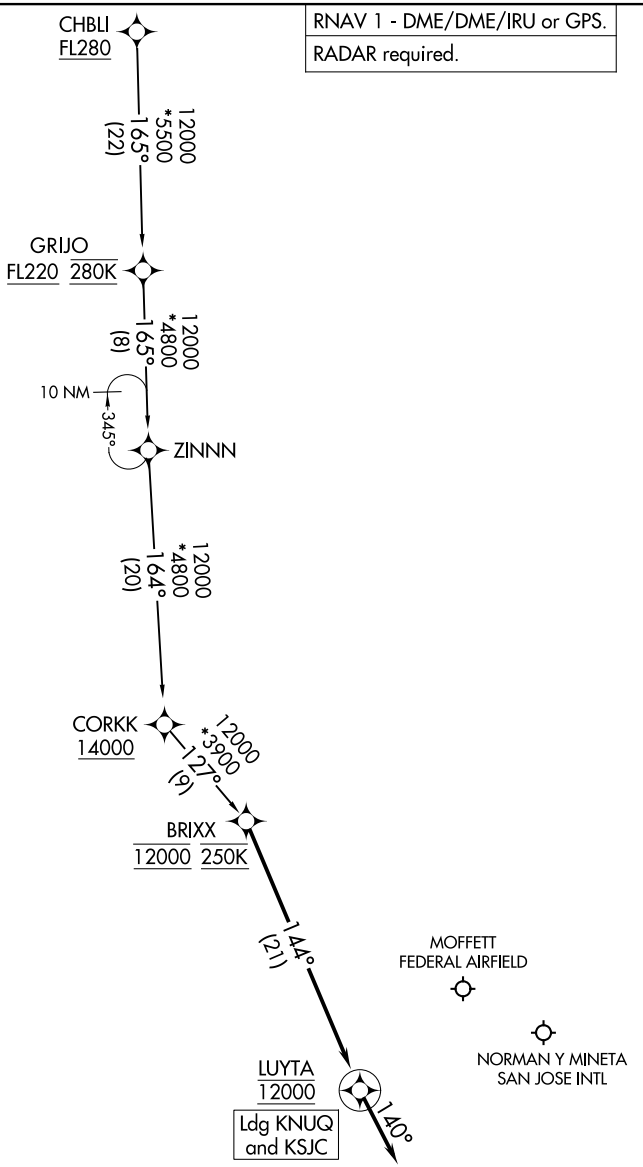
AL-693 (FAA)

SAN JOSE, CALIFORNIA

SW-2, 09 JUL 2026 to 03 SEP 2026

OAKLAND CENTER
125.85 323.0
NORCAL APP CON
133.95 317.6
NUQ ATIS
124.175 283.0
SJC D-ATIS
126.95
NUQ GND CON
121.85 278.95
SJC GND CON
121.7
MOFFETT TOWER★
119.55 259.65
SAN JOSE TOWER★
124.0 257.6

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

CHBLI TRANSITION (CHBLI.BRIXX4)

LANDING KSJC/KNUQ: From BRIXX on track 144° to cross LUYTA at 12000, then on track 140°. Expect RADAR vectors to final approach course.

BRIXX FOUR ARRIVAL (RNAV)

SAN JOSE, CALIFORNIA

(BRIXX.BRIXX4) 21MAR24

(DYAMD.DYAMD5) 19003

DYAMD FIVE ARRIVAL (RNAV)

AL-375 (FAA)

Transition Routes

SAN FRANCISCO INTL (SFO)

SAN FRANCISCO, CALIFORNIA

(CONTINUED ON FOLLOWING PAGE)

SW-2, 09 JUL 2026 to 03 SEP 2026

DYAMD FIVE ARRIVAL (RNAV) Transition Routes

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

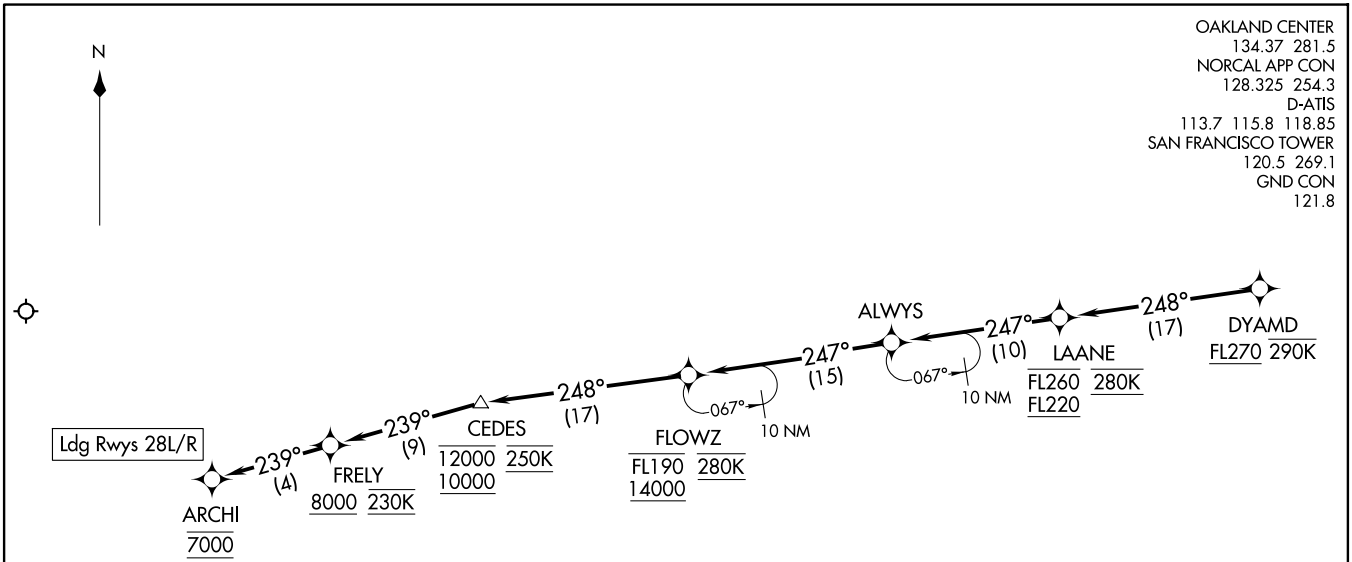
(DYAMD.DYAMD5) 03JAN19

DYAMD FIVE ARRIVAL (RNAV) (DYAMD.DYAMD5) 03JAN19

Arrival Routes

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

Z12



NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect to receive "descend via" clearance from Oakland Center. Northern California TRACON will assign landing runway.
NOTE: RADAR required for non-GPS equipped aircraft.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From DYAMD on track 248° to cross LAANE between FL220 and FL260 and at 280K, then on track 247° to ALWYS.

LANDING RUNWAYS 28L/R: From ALWYS on track 247° to cross FLOWZ between 14000 and FL190 and at 280K, then on track 248° to cross CEDES between 10000 and 12000 and at 250K, then on track 239° to cross FRELY at or above 8000 and at 230K, then on track 239° to cross ARCHI at 7000. Expect assigned instrument approach procedure.

(DYAMD.DYAMD5) 19003
DYAMD FIVE ARRIVAL (RNAV)
Arrival Routes
SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

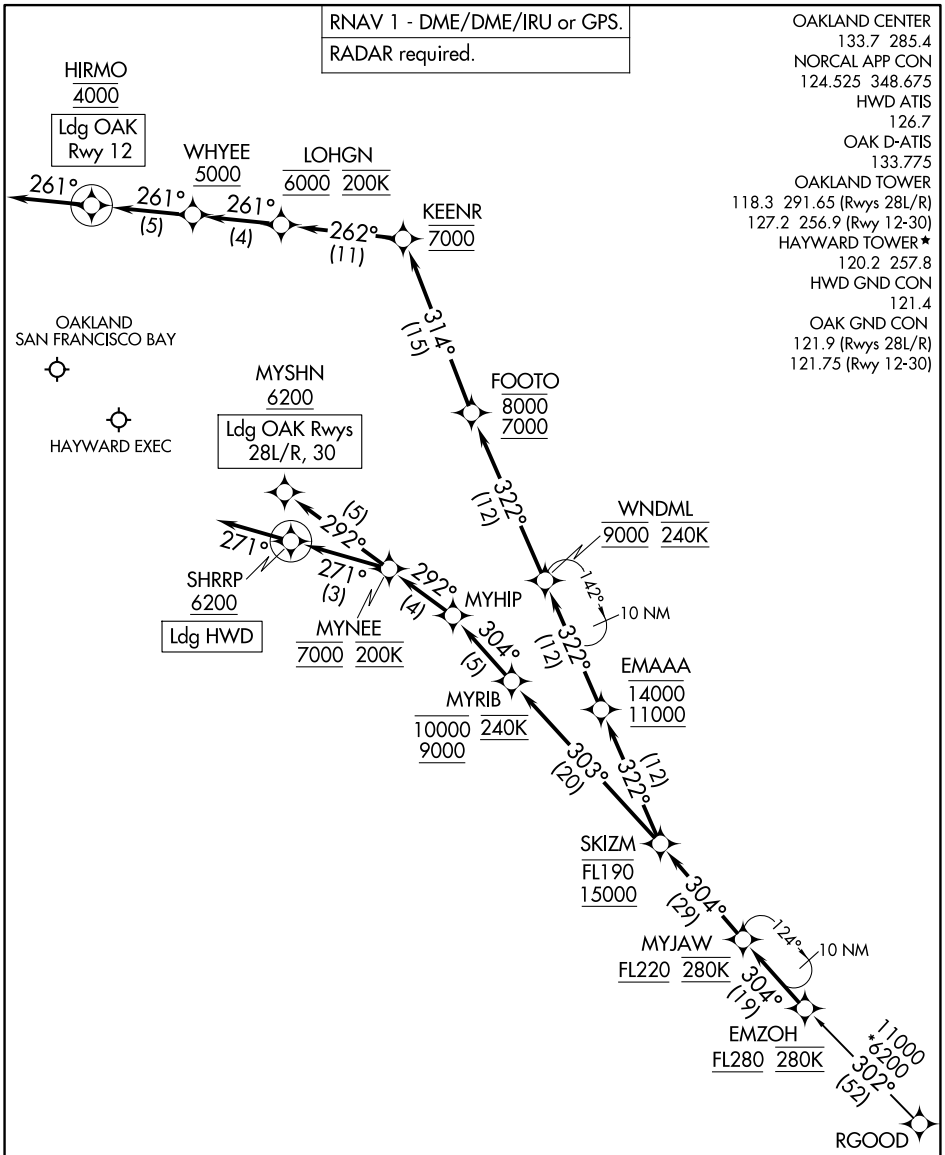
AL-375 (FAA)

(EMZOH.EMZOH4) 25275

EMZOH FOUR ARRIVAL (RNAV)

AL-294 (FAA)

OAKLAND, CALIFORNIA



NOTE: Expect to receive "descend via" clearance from Oakland Center.
Northern California TRACON will assign landing runway.

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EMZOH FOUR ARRIVAL (RNAV)

OAKLAND, CALIFORNIA

(EMZOH.EMZOH4) 12JUN25

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ARRIVAL ROUTE DESCRIPTION

RGOOD TRANSITION (RGOOD.EMZOH4)

OAK: From EMZOH on track 304° to cross MYJAW at or above FL220 and at 280K, then on track 304° to cross SKIZM between 15000 and FL190.

LANDING OAK RUNWAY 12: From SKIZM on track 322° to cross EMAAA between 11000 and 14000, then on track 322° to cross WNDML at 9000 and at 240K, then on track 322° to cross FOOTO between 7000 and 8000, then on track 314° to cross KEENR at 7000, then on track 262° to cross LOHGN at 6000 and at 200K, then on track 261° to cross WHYEE at or above 5000, then on track 261° to cross HIRMO at 4000, then on track 261°. Expect RNAV (RNP) Z RWY 12 approach or RADAR vectors to final approach course.

LANDING OAK RUNWAYS 28L/R, 30: From SKIZM on track 303° to cross MYRIB between 9000 and 10000 and at 240K, then on track 304° to MYHIP, then on track 292° to cross MYNEE at 7000 and at 200K, then on track 292° to cross MYSHN at or above 6200, Expect ILS or RNAV approach Rwy 28L/R, 30 approach.

LANDING HWD: From EMZOH on track 304° to cross MYJAW at or above FL220 and at 280K, then on track 304° to cross SKIZM between 15000 and FL190, then on track 303° to cross MYRIB between 9000 and 10000 and at 240K, then on track 304° to MYHIP, then on track 292° to cross MYNEE at 7000 and at 200K, then on track 271° to cross SHRRP at or above 6200, then on track 271°. Expect RADAR vectors to final approach course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(FEVTA.FEVTA1) 26134

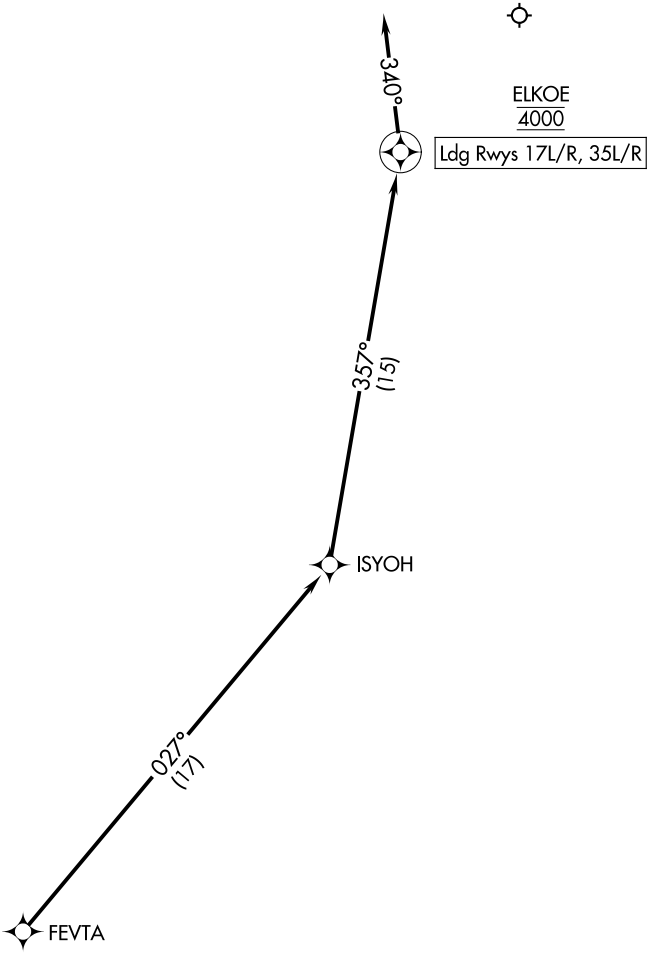
FEVTA ONE ARRIVAL (RNAV)

AL-5490 (FAA)

SACRAMENTO INTL (SMF)
SACRAMENTO, CALIFORNIA

NORCAL APP CON
125.25 257.9
D-ATIS
126.75
GND CON
121.7 256.7
CAPITOL TOWER
125.7 256.7

RNAV 1- DME/DME/IRU or GPS.
RADAR required.



NOTE: Chart not to scale.

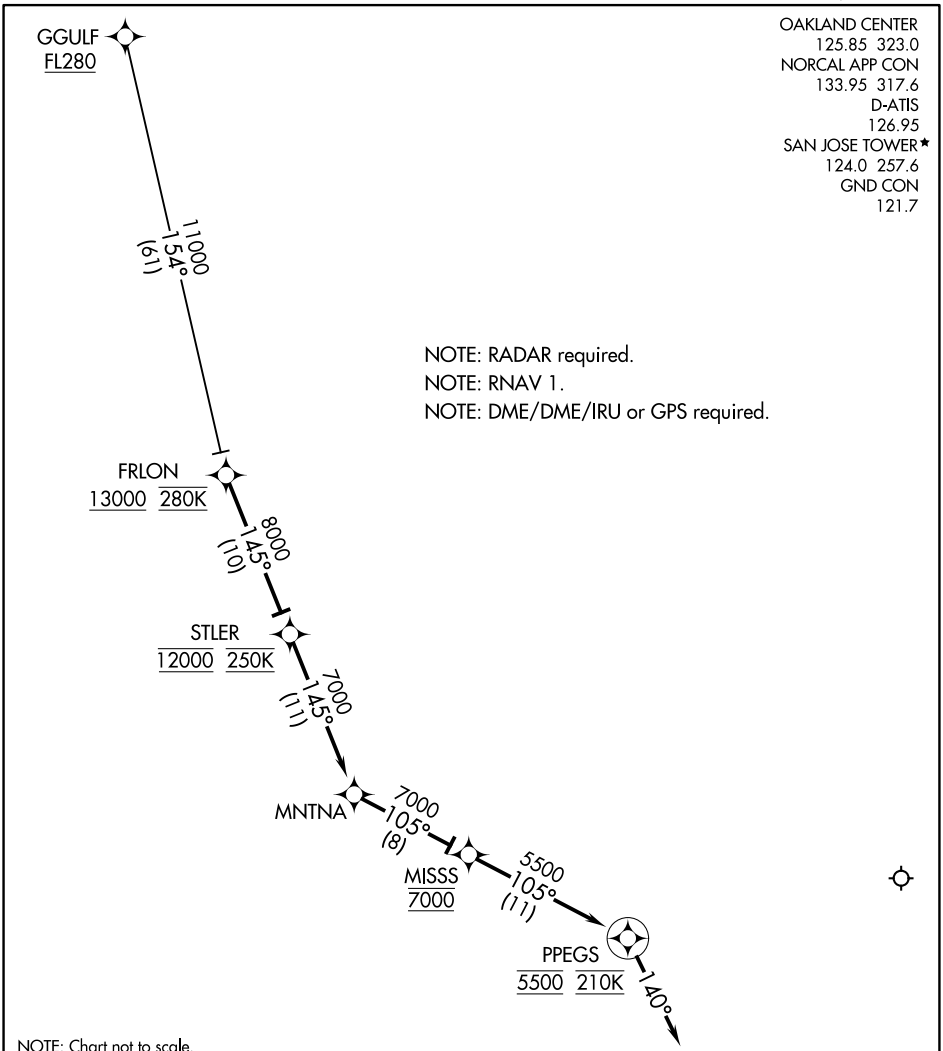
ARRIVAL ROUTE DESCRIPTION

From FEVTA on track 027° to ISYOH, then on track 357° to cross ELKOE at 4000.

LANDING RUNWAY 17L/R, 35L/R: From ELKOE, then on track 340°. Expect RADAR vectors to final approach course.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026



ARRIVAL ROUTE DESCRIPTION

GGULF TRANSITION (GGULF.FRLON2)

From FRLON on track 145° to cross STLER at 12000 and at 250K, then on track 145° to MNTNA, then on track 105° to cross MISSS at 7000, then on track 105° to cross PPEGS at 5500 and at 210K, then on track 140°. Expect RADAR vectors to final approach course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(MOD.MOD9) 23334

MODESTO NINE ARRIVAL

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

ARRIVAL ROUTE DESCRIPTION

COALDALE TRANSITION (OAL.MOD9): From over OAL VORTAC on OAL R-246 and MOD R-064 to MOD VOR/DME. Thence. . . .

MINA TRANSITION (MVA.MOD9): From over MVA VORTAC on MVA R-204 and OAL R-246 and MOD R-064 to MOD VOR/DME. Thence. . . .

MUSTANG TRANSITION (FMG.MOD9): From over FMG VORTAC on FMG R-182 and MOD R-064 to MOD VOR/DME. Thence. . . .

. . . . From over MOD VOR/DME on MOD R-245 to LEEFF, then on MOD R-245 to GROAN, then on MOD R-245 to CEDES, then on OSI VOR/DME R-056 to ARCHI, then on OSI R-056 to MEHTA. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS: Intercept and proceed on SFO RWY 28R localizer to CEPIN.

MODESTO NINE ARRIVAL
(MOD.MOD9) 15AUG19
SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

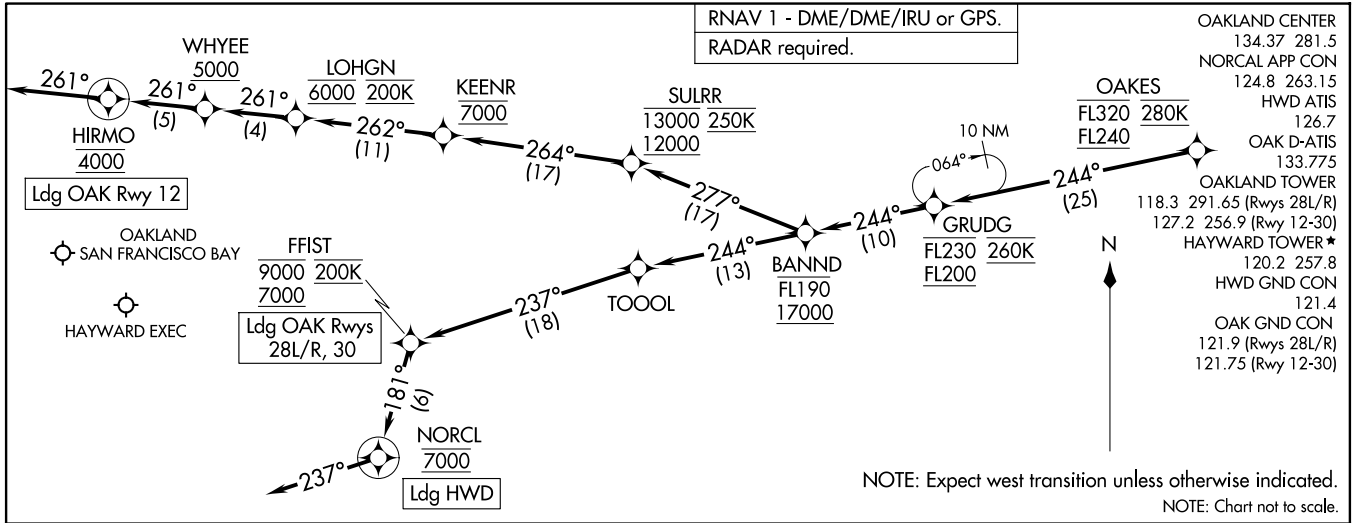
SW-2, 09 JUL 2026 to 03 SEP 2026

MRLET TRANSITION (MRLET.OAKES3)
RPARK TRANSITION (RPARK.OAKES3)
RUSME TRANSITION (RUSME.OAKES3)
RNAV 1 - DME/DME/IRU or GPS.
RADAR required.
NOTE: Expect west transition unless otherwise indicated.
OAKLAND CENTER
134.37 281.5
NORCAL APP CON
124.8 263.15
HWD ATIS
126.7
OAK D-ATIS
133.775
OAKLAND TOWER
118.3 291.65 (Rwys 28L/R)
127.2 256.9 (Rwy 12-30)
HAYWARD TOWER★
120.2 257.8
HWD GND CON
121.4
OAK GND CON
121.9 (Rwys 28L/R)
121.75 (Rwy 12-30)
MRLET
POYSN
MOLLA
RPARK
TATOO
Z
RUSME
OAKES
FL320 280K
FL240
See following page for arrival routes.
FL200 *13100 179° (52)
16000 *9400 195° (28)
16000 *11400 245° (31)
FL200 *14700 246° (47)
10 NM
099°
246°
FL200 *16500 267° (137)
(CONTINUED ON FOLLOWING PAGE)
NOTE: Chart not to scale.

OAKES THREE ARRIVAL (RNAV) Arrival Routes

(OAKES.OAKES3) 12JUN25

OAKLAND, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

OAK: From OAKES on track 244° to cross GRUDG between FL200 and FL230 and at 260K, then on track 244° to cross BANND between 17000 and FL190.

LANDING OAK RUNWAY 12: From BANND on track 277° to cross SULRR between 12000 and 13000 and at 250K, then on track 264° to cross KEENR at 7000, then on track 262° to cross LOHGN at 6000 and at 200K, then on track 261° to cross WHYEE at or above 5000, then on track 261° to cross HIRMO at 4000, then on track 261°. Expect RNAV (RNP) Z RWY 12 approach or RADAR vectors to final approach course.

LANDING OAK RUNWAYS 28L/R, 30: From BANND on track 244° to TOOOL, then on track 237° to cross FFIST between 7000 and 9000 and at 200K. Expect ILS or RNAV approach Rwy 28L/R, 30 approach.

LANDING HWD: From OAKES on track 244° to cross GRUDG between FL200 and FL230 and at 260K, then on track 244° to cross BANND between 17000 and FL190, then on track 244° to TOOOL, then on track 237° to cross FFIST between 7000 and 9000 and at 200K, then on track 181° to cross NORCL at 7000, then on track 237°. Expect RADAR vectors to final approach course.

OAKES THREE ARRIVAL (RNAV) Arrival Routes

(OAKES.OAKES3) 25275

AL-294 (FAA)

Z19

OAKLAND, CALIFORNIA

ARRIVAL ROUTE DESCRIPTION

LIBBO TRANSITION (LIBBO.OSVEE2)

ROVUE TRANSITION (ROVUE.OSVEE2)

ZONSO TRANSITION (ZONSO.OSVEE2)

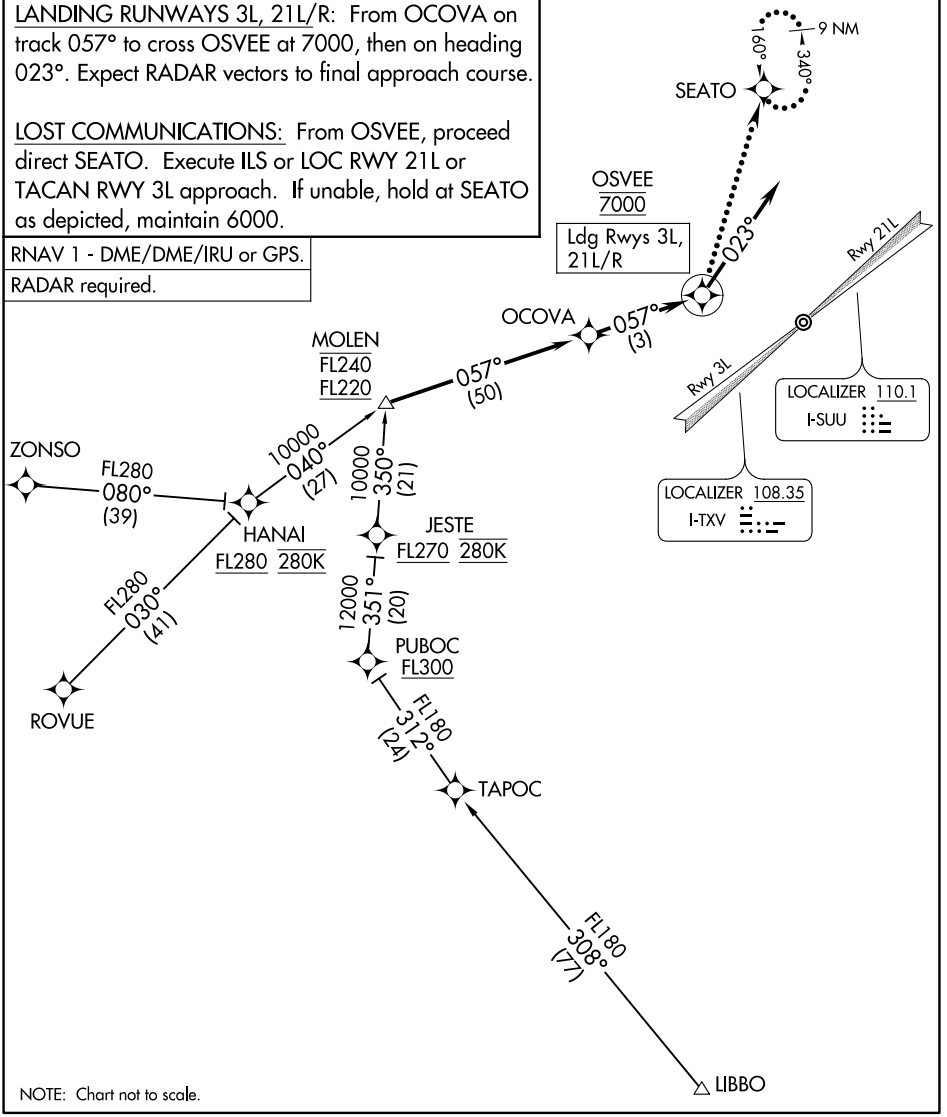
From MOLEN on track 057° to OCOVA.

LANDING RUNWAYS 3L, 21L/R: From OCOVA on track 057° to cross OSVEE at 7000, then on heading 023°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS: From OSVEE, proceed direct SEATO. Execute ILS or LOC RWY 21L or TACAN RWY 3L approach. If unable, hold at SEATO as depicted, maintain 6000.

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.

TRAVIS APP CON
126.6 281.45 (N)
119.9 322.325 (S)
TRAVIS TOWER
120.75 254.4
GND CON
121.8 289.4
D-ATIS
135.55 292.125



NOTE: Chart not to scale.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(SWR.SWR1) 23334

PALISADES ONE ARRIVAL

AL-488 (FAA)

TRAVIS AFB (KSUU)
FAIRFIELD, CALIFORNIA

ARRIVAL ROUTE DESCRIPTION

MINA TRANSITION (MVA.SWR1): From over MVA VORTAC on MVA R-273 and SWR R-093 to SWR VOR/DME, then on SWR R-236 to PEELS INT. Thence. . . .

MUSTANG TRANSITION (FMG.SWR1): From over FMG VORTAC on FMG R-218 and SWR R-037 to SWR VOR/DME, then on SWR R-236 to PEELS INT. Thence. . . .

LANDING RUNWAYS 3L/R: From over PEELS on heading 200°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 21L/R: From over PEELS on heading 175°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

RUNWAY 3L: From over PEELS proceed to SGD VORTAC. Expect ILS or LOC RWY 3L approach.

RUNWAY 21R: From over PEELS proceed to SAC VORTAC. Expect ILS or LOC RWY 21L approach.

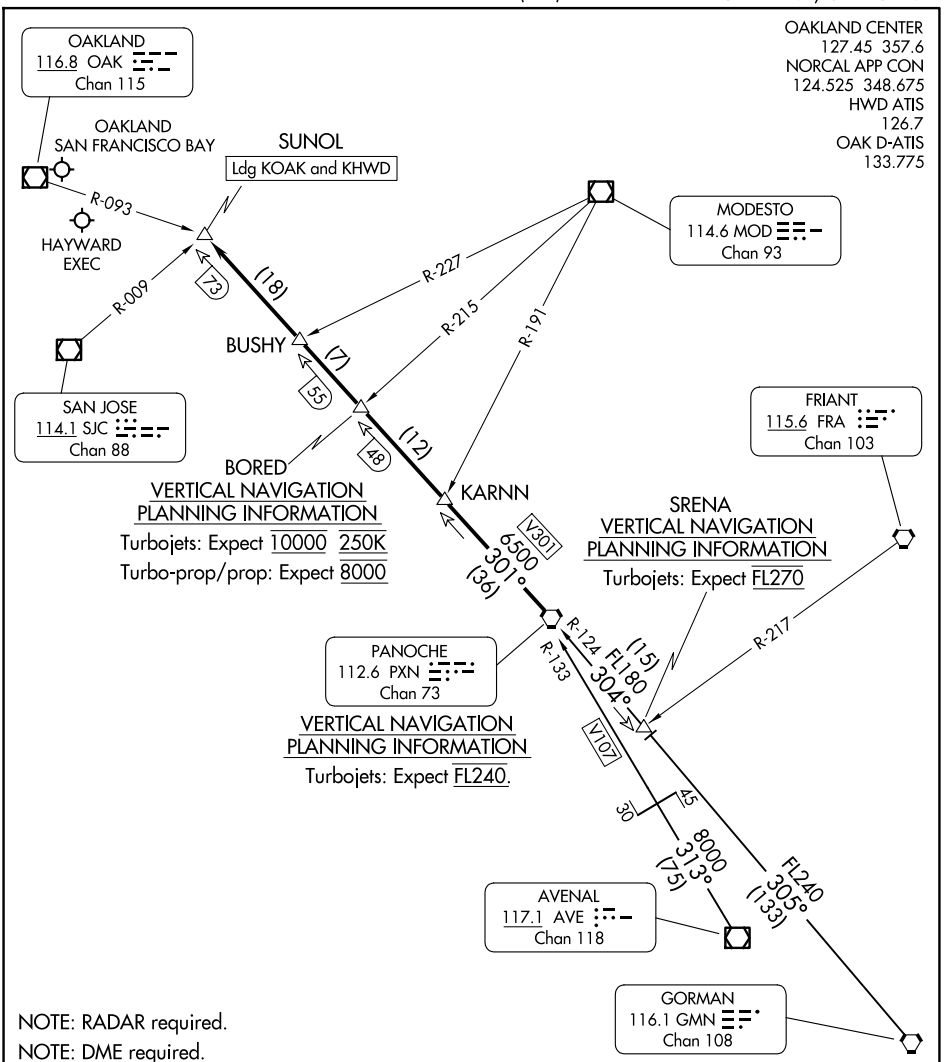
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

PALISADES ONE ARRIVAL

(SWR.SWR1) 10AUG23

FAIRFIELD, CALIFORNIA
TRAVIS AFB (KSUU)



ARRIVAL ROUTE DESCRIPTION

AVENAL TRANSITION (AVE.PXN6): From over AVE VOR/DME on AVE R-313 and PXN R-133 to PXN VORTAC. Thence. . . .

GORMAN TRANSITION (GMN.PXN6): From over GMN VORTAC on GMN R-305 and PXN R-124 to SRENA, then on PXN R-124 to PXN VORTAC. Thence. . . .

. . . .From over PXN VORTAC on PXN R-301 to SUNOL. Expect RADAR vectors to final approach course.

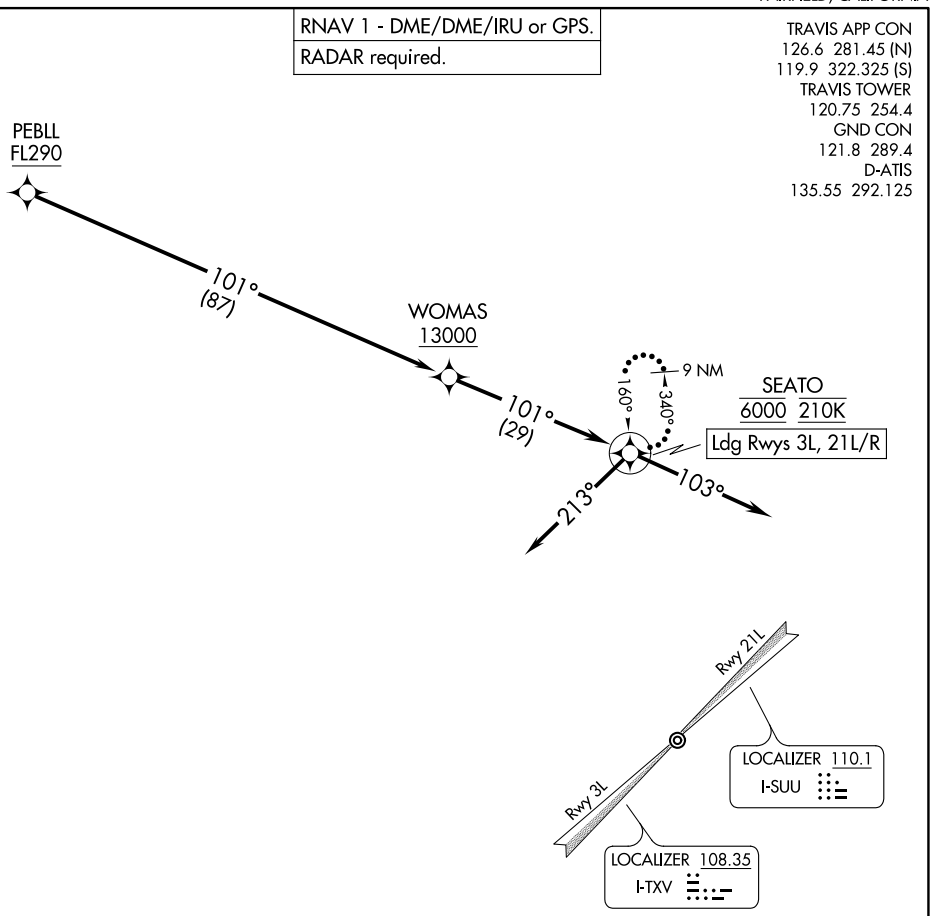
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(PEBLL.PEBLL2) 22139

PEBLL TWO ARRIVAL (RNAV)

AL-488 (FAA)

TRAVIS AFB (KSUU)
FAIRFIELD, CALIFORNIA



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From PEBLL on track 101° to cross WOMAS at or above 13000.

LANDING RUNWAY 3L: From WOMAS on track 101° to cross SEATO at 6000 and at 210K, then on heading 213°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 21L/R: From WOMAS on track 101° to cross SEATO at 6000 and at 210K, then on heading 103°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS: From SEATO, execute ILS or LOC RWY 21L or TACAN RWY 3L approach. If unable, hold at SEATO as depicted, maintain 6000.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

PIRAT THREE ARRIVAL (RNAV)

(PIRAT.PIRAT3) 11JUL24

SAN FRANCISCO, CALIFORNIA

PIRAT THREE ARRIVAL (RNAV)

(PIRAT.PIRAT3) 25275

SAN FRANCISCO, CALIFORNIA

Z24

AL-375 (FAA)

RNAV 1 - GPS.
RADAR required.

NOTE: Jet and turboprop aircraft only.
NOTE: Landing SFO expect Runway 28L/R unless otherwise assigned by ATC.
NOTE: Landing OAK expect Runway 28L/R or Runway 30 unless otherwise assigned by ATC.
NOTE: GPS required.

OAKLAND SAN FRANCISCO BAY
SAN FRANCISCO INTL
PAINT
WUSES
ALCOA
FL240
FL200
*2200
094°
(102)
FL200
*2200
103°
(91)
FL200
*2200
143°
(23)
11 NM
274°
SUPER
FL210 280K
10000
*2200
087°
(33)
10 NM
239°
059°
PASIF
14000 260K
5000
*2200
059°
(13)
10 NM
239°
PIRAT
10000
060°
(10)
BRINY
060°
(19)
ARGGG
8000 230K
SIDBY
060°
FRNNY
CYMBL
Ldg KOAK and KSFO
10000
*2200
039°
(26)
11 NM
218°
HUNTS
FL210 280K
FL200
*2200
038°
(73)
CINNY
FL270
N
NOTE: Chart not to scale.

OAKLAND CENTER
134.15 355.6
NORCAL APP CON
133.95 317.6
OAK D-ATIS
133.775
SFO D-ATIS
113.7 115.8 118.85
OAKLAND GND CON
121.9 (Rwys 28L/R)
121.75 (Rwy 30)
SAN FRANCISCO GND CON
121.8
OAKLAND TOWER
118.3 291.65 (Rwys 28L/R)
127.2 256.9 (Rwy 30)
SAN FRANCISCO TOWER
120.5 269.1

ARRIVAL ROUTE DESCRIPTION

ALCOA TRANSITION (ALCOA.PIRAT3)
CINNY TRANSITION (CINNY.PIRAT3)
HUNTS TRANSITION (HUNTS.PIRAT3)
PAINT TRANSITION (PAINT.PIRAT3)
PASIF TRANSITION (PASIF.PIRAT3)
WUSES TRANSITION (WUSES.PIRAT3)

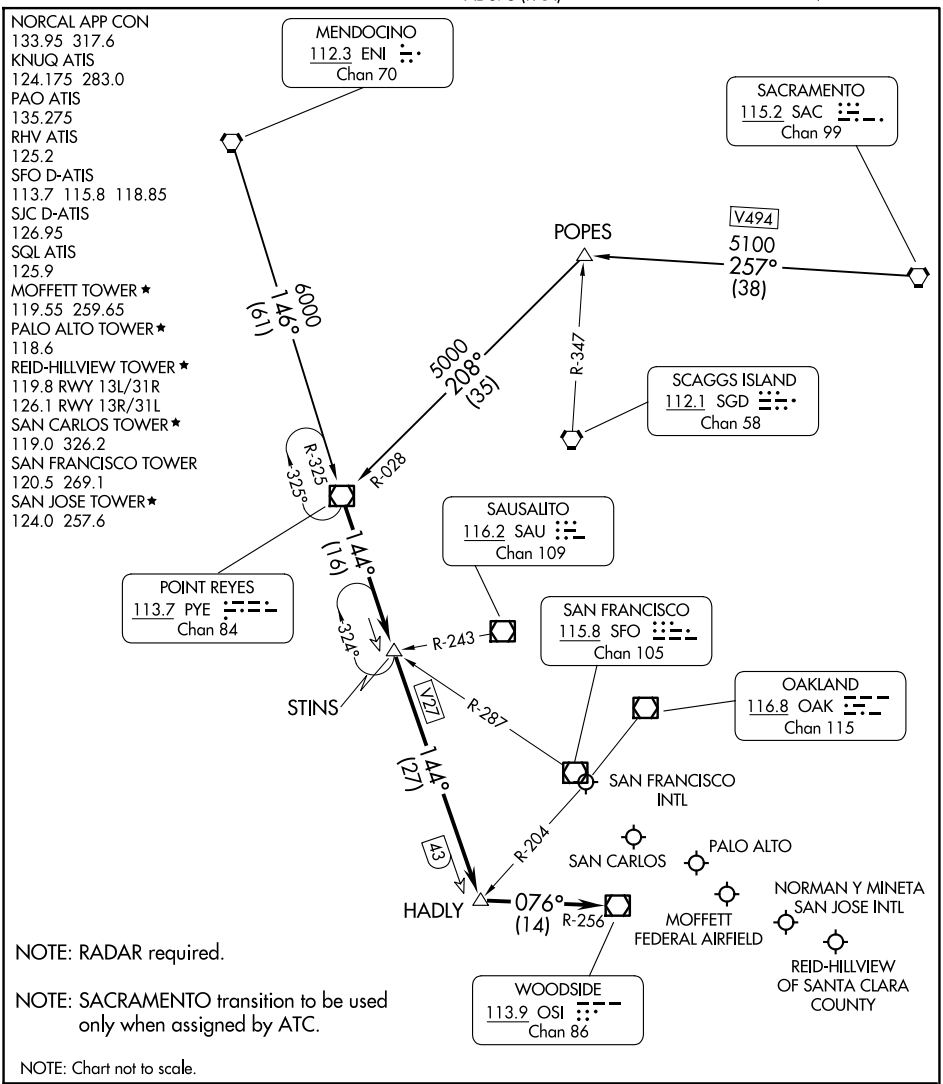
LANDING KOAK/KSFO: From PIRAT on track 060° to BRINY, then on track 060° to cross ARGGG at 8000 and at 230K, then on track 060°. Expect assigned instrument approach or RADAR vectors to final approach course.

(PYE.PYE3) 23334

POINT REYES THREE ARRIVAL

AL-375 (FAA)

SAN FRANCISCO, CALIFORNIA



NOTE: RADAR required.

NOTE: SACRAMENTO transition to be used only when assigned by ATC.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

MENDOCINO TRANSITION (ENI.PYE3): From over ENI VORTAC on ENI R-146 and PYE R-325 to PYE VOR/DME. Thence. . . .

SACRAMENTO TRANSITION (SAC.PYE3): From over SAC VORTAC on SAC R-257 and PYE R-028 to PYE VOR/DME. Thence. . . .

. . . .From over PYE VOR/DME on PYE R-144 to HADLY, then on OSI R-256 to OSI VOR/DME. Expect RADAR vectors to final approach course.

POINT REYES THREE ARRIVAL

SAN FRANCISCO, CALIFORNIA

(PYE.PYE3) 22JUN17

SW-2, 09 JUL 2026 to 03 SEP 2026

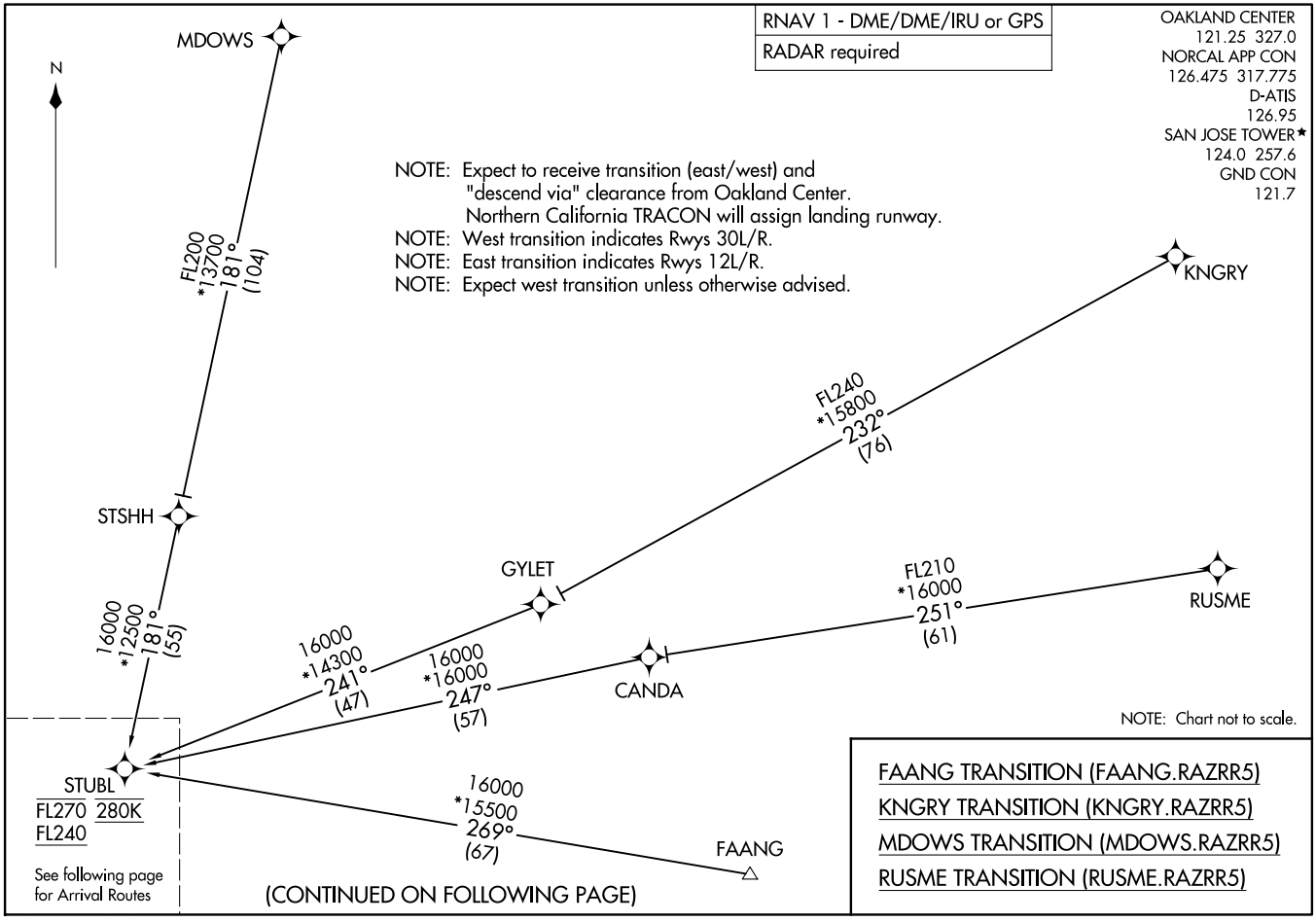
RAZRR FIVE ARRIVAL (RNAV) Transition Routes

(STUBL.RAZRR5) 14JUL22

NORMAN Y MINETA SAN JOSE INTL (SJC)

SAN JOSE, CALIFORNIA

Z26



(STUBL.RAZRR5) 22195

RAZRR FIVE ARRIVAL (RNAV) Transition Routes

NORMAN Y MINETA SAN JOSE INTL (SJC)

SAN JOSE, CALIFORNIA

AL-693 (FAA)

RAZRR FIVE ARRIVAL (RNAV) Arrival Routes

(STUBL.RAZRR5) 14JUL22

NORMAN Y MINETA SAN JOSE INTL (SJC)

SAN JOSE, CALIFORNIA

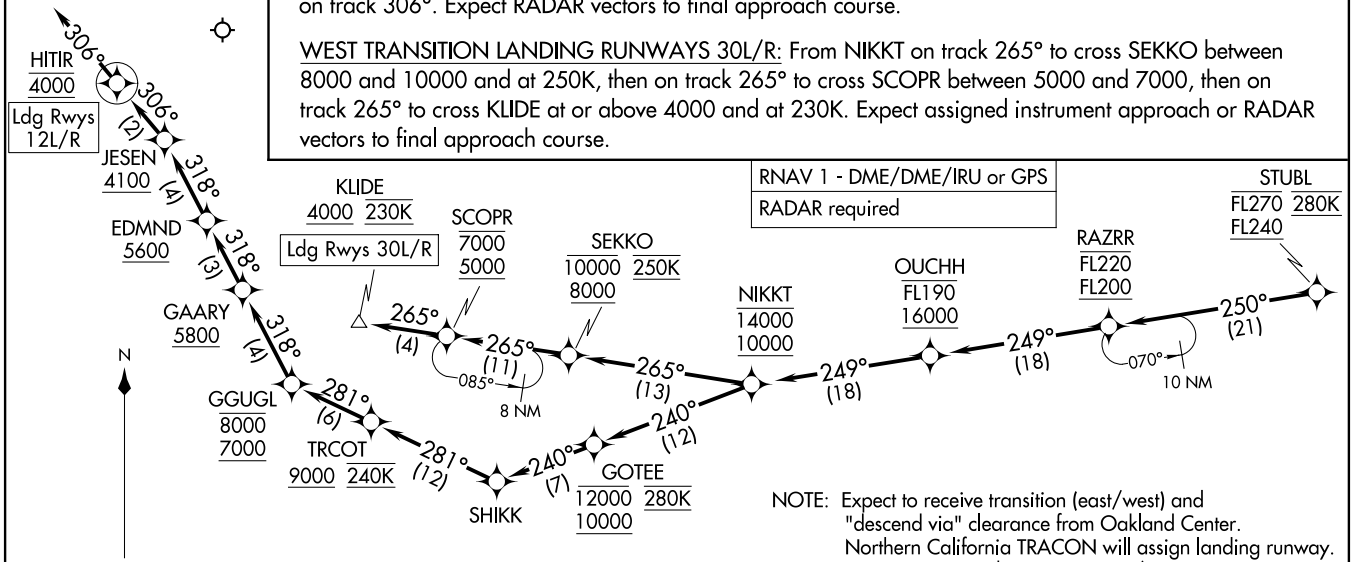
OAKLAND CENTER
121.25 327.0
NORCAL APP CON
126.475 317.775
D-ATIS
126.95
SAN JOSE TOWER★
124.0 257.6
GND CON
121.7

ARRIVAL ROUTE DESCRIPTION

From STUBL on track 250° to cross RAZRR between FL200 and FL220, then on track 249° to cross OUCHH between 16000 and FL190, then on track 249° to cross NIKKT between 10000 and 14000.

EAST TRANSITION LANDING RUNWAYS 12L/R: From NIKKT on track 240° to cross GOTEE between 10000 and 12000 and at 280K, then on track 240° to SHIKK, then on track 281° to cross TRCOT at or above 9000 and at 240K, then on track 281° to cross GGUGL between 7000 and 8000, then on track 318° to cross GAARY at or above 5800, then on track 318° to cross EDMND at or above 5600, then on track 318° to cross JESEN at or above 4100, then on track 306° to cross HITIR at 4000, then on track 306°. Expect RADAR vectors to final approach course.

WEST TRANSITION LANDING RUNWAYS 30L/R: From NIKKT on track 265° to cross SEKKO between 8000 and 10000 and at 250K, then on track 265° to cross SCOPR between 5000 and 7000, then on track 265° to cross KLIDE at or above 4000 and at 230K. Expect assigned instrument approach or RADAR vectors to final approach course.



NOTE: Chart not to scale.

NOTE: Expect to receive transition (east/west) and "descend via" clearance from Oakland Center. Northern California TRACON will assign landing runway.
NOTE: West transition indicates Rwys 30L/R.
NOTE: East transition indicates Rwys 12L/R.
NOTE: Expect west transition unless otherwise advised.

(STUBL.RAZRR5) 22195

RAZRR FIVE ARRIVAL (RNAV) Arrival Routes

NORMAN Y MINETA SAN JOSE INTL (SJC)

SAN JOSE, CALIFORNIA

AL-693 (FAA)

227

REBAS ONE ARRIVAL (RNAV) Transition Routes

(BRIXX.REBAS1) 11JUL24

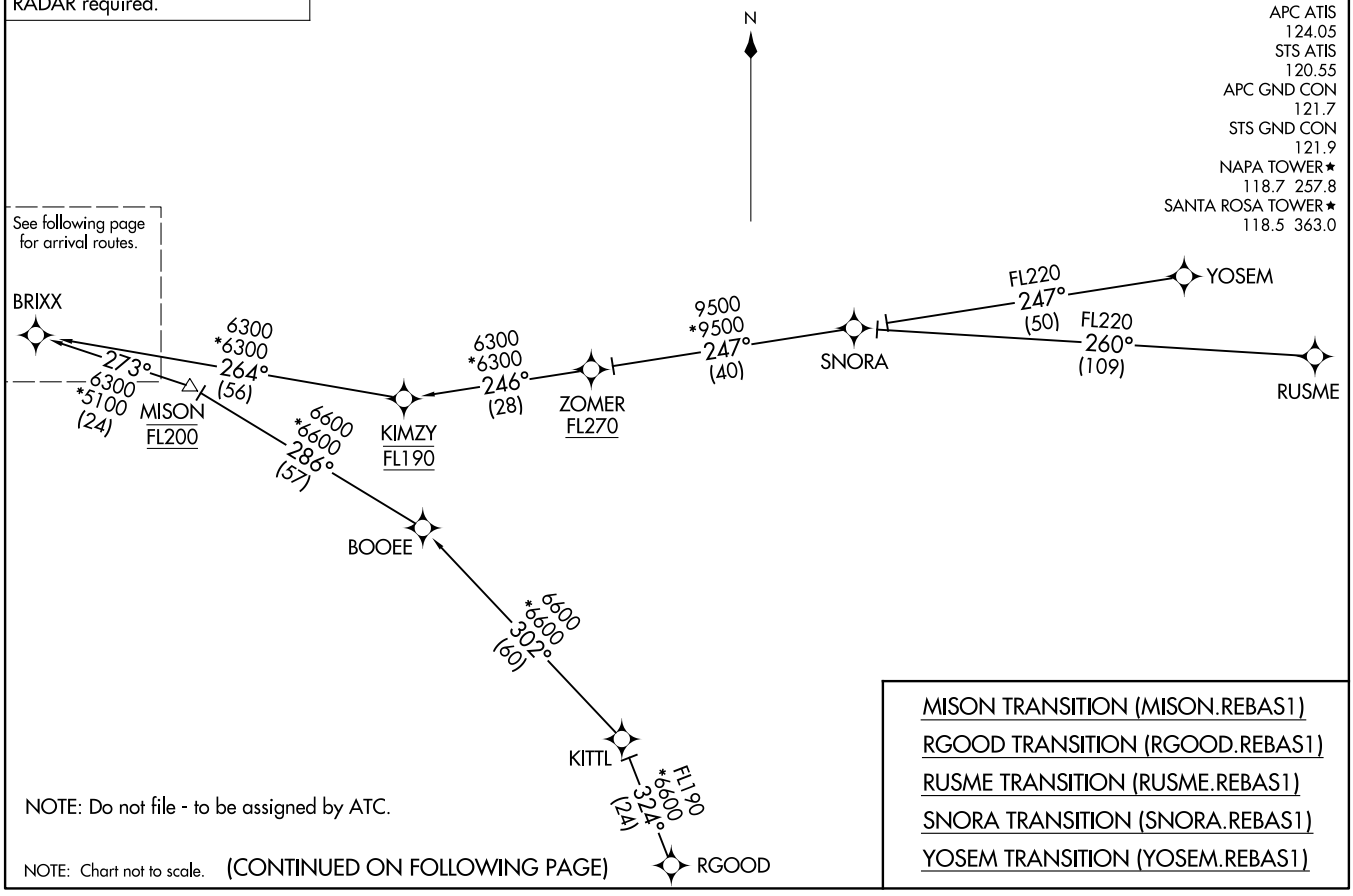
NAPA, CALIFORNIA

Z28

RNAV 1 - DME/DME/IRU or GPS.

RADAR required.

OAKLAND CENTER
127.8 353.5
APC ATIS
124.05
STS ATIS
120.55
APC GND CON
121.7
STS GND CON
121.9
NAPA TOWER★
118.7 257.8
SANTA ROSA TOWER★
118.5 363.0



NOTE: Do not file - to be assigned by ATC.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

MISON TRANSITION (MISON.REBAS1)
RGOOD TRANSITION (RGOOD.REBAS1)
RUSME TRANSITION (RUSME.REBAS1)
SNORA TRANSITION (SNORA.REBAS1)
YOSEM TRANSITION (YOSEM.REBAS1)

REBAS ONE ARRIVAL (RNAV) Transition Routes

(BRIXX.REBAS1) 24193

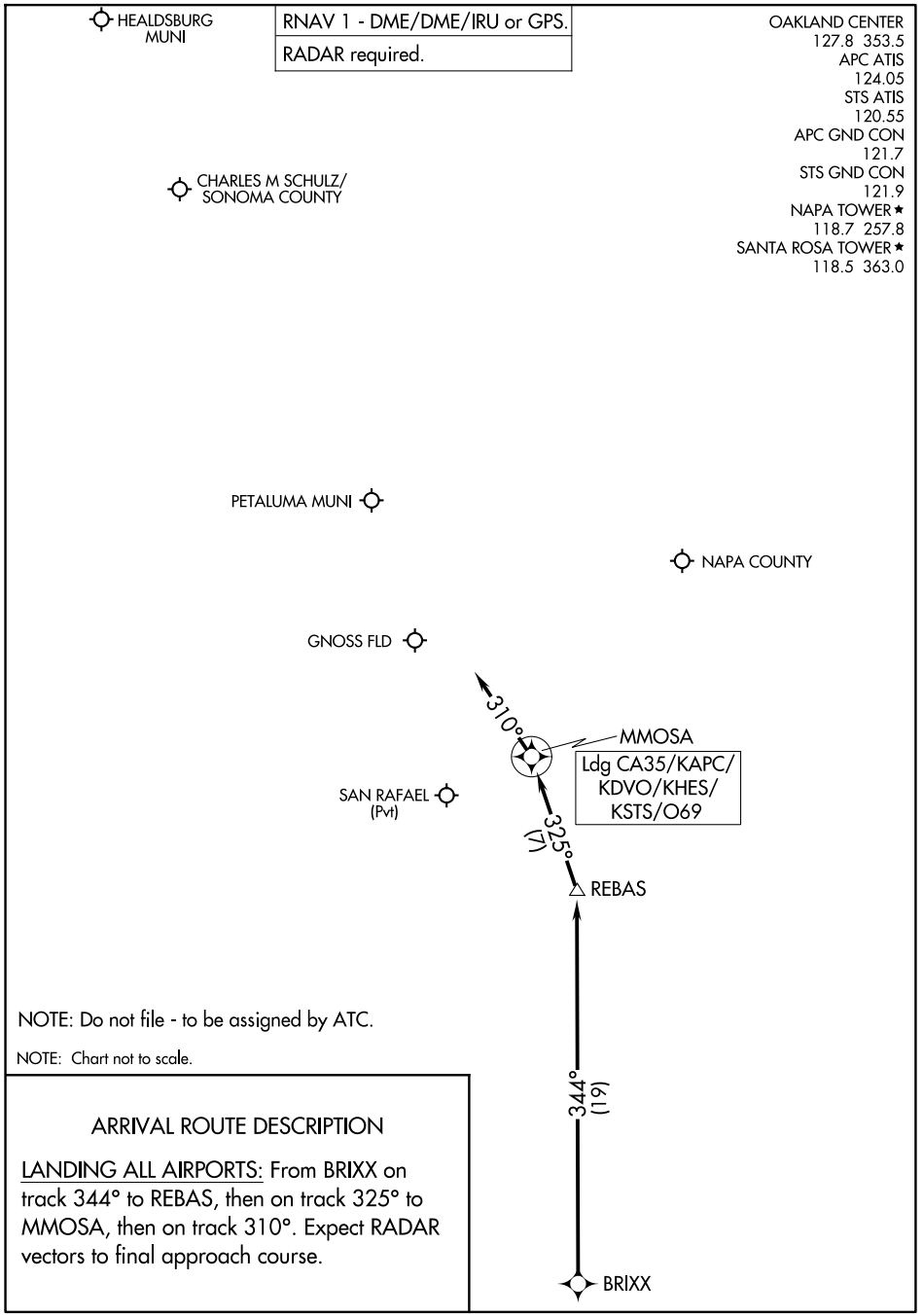
AL-281 (FAA)

NAPA, CALIFORNIA

(BRIXX.REBAS1) 24305 AL-281 (FAA)

REBAS ONE ARRIVAL (RNAV) Arrival Routes

NAPA, CALIFORNIA



NOTE: Do not file - to be assigned by ATC.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

LANDING ALL AIRPORTS: From BRIXX on track 344° to REBAS, then on track 325° to MMOSA, then on track 310°. Expect RADAR vectors to final approach course.

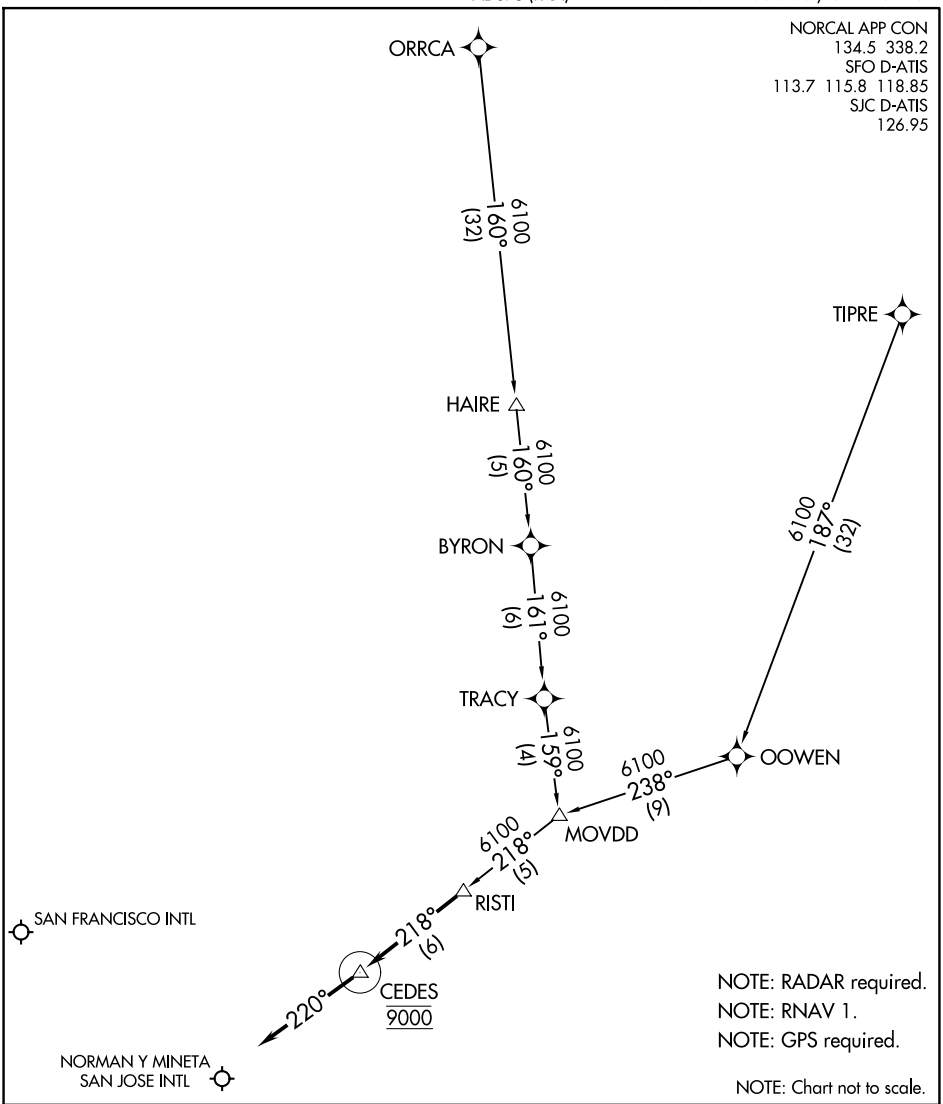
REBAS ONE ARRIVAL (RNAV) Arrival Routes

NAPA, CALIFORNIA

(BRIXX.REBAS1) 11JUL24

SW-2, 09 JUL 2026 to 03 SEP 2026

RISTI ONE ARRIVAL (RNAV)



SW-2, 09 JUL 2026 to 03 SEP 2026

ARRIVAL ROUTE DESCRIPTION

ORRCA TRANSITION (ORRCA.RISTI1)

TIPRE TRANSITION (TIPRE.RISTI1)

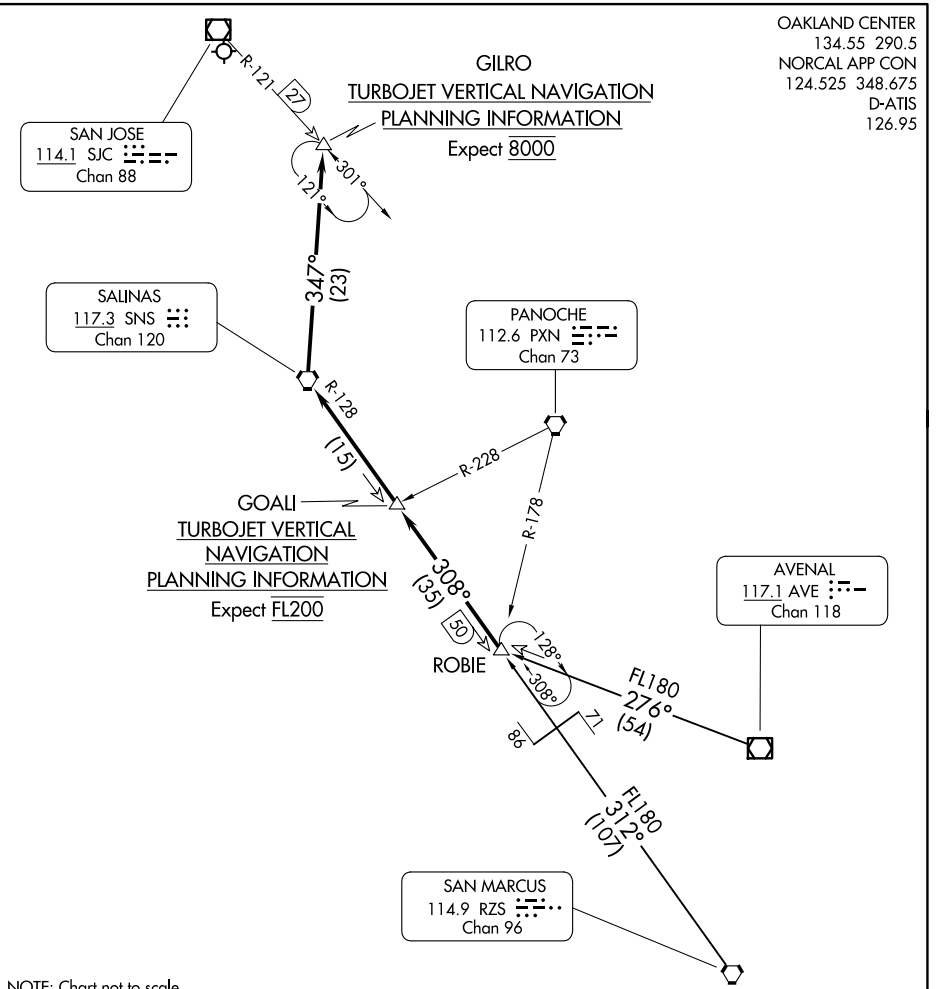
LANDING KSFO/KSJC: From RISTI on track 218° to cross CEDES at 9000, then on heading 220° or as assigned by ATC. Expect RADAR vectors to final approach course.

(ROBIE.ROBIE5) 23334

ROBIE FIVE ARRIVAL

AL-693 (FAA)

NORMAN Y MINETA SAN JOSE INTL (SJC)
SAN JOSE, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

AVENAL TRANSITION (AVE.ROBIE5): From over AVE VOR/DME on AVE R-276 to ROBIE. Thence . . . .

SAN MARCUS TRANSITION (RZS.ROBIE5): From over RZS VORTAC on RZS R-312 and SNS R-128 to ROBIE. Thence . . . .

. . . . From over ROBIE on SNS R-128 to SNS VORTAC. Then on SNS R-347 to GILRO. Expect the ILS RWY 30L approach.

FOR RUNWAY 12 OPERATIONS: Expect routing SNS direct SJC VOR/DME and RADAR vectors to final approach course.

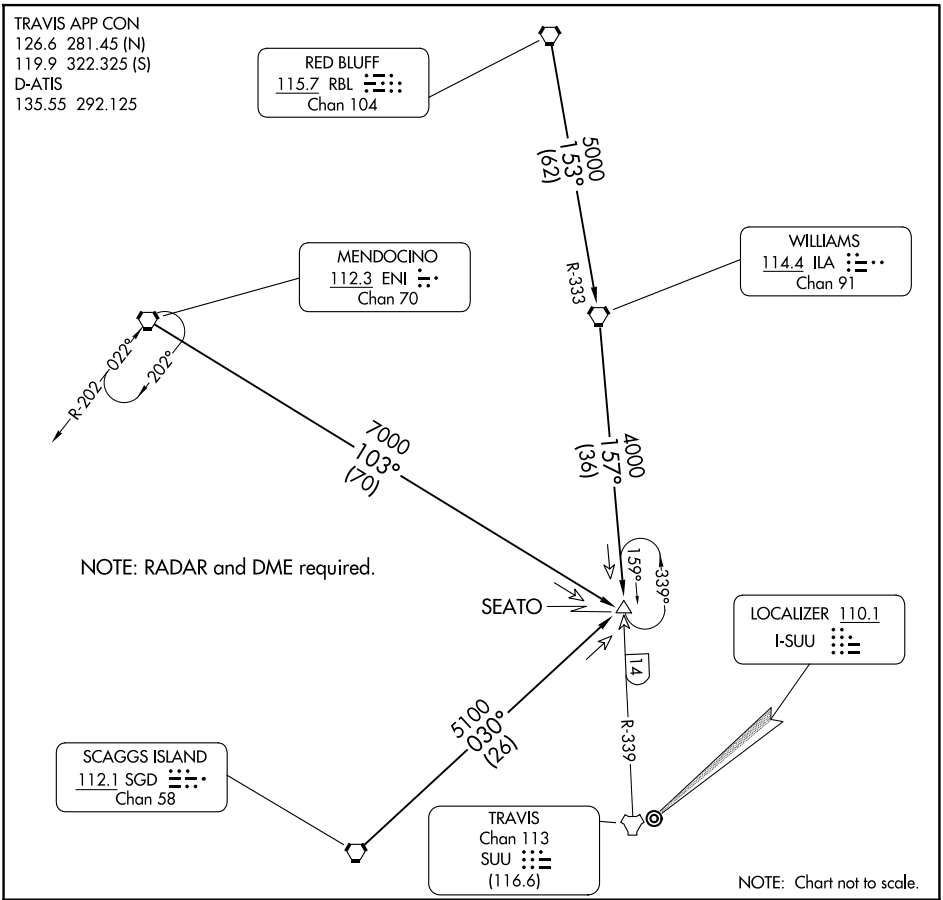
ROBIE FIVE ARRIVAL

(ROBIE.ROBIE5) 15AUG19

SAN JOSE, CALIFORNIA
NORMAN Y MINETA SAN JOSE INTL (SJC)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026



ARRIVAL ROUTE DESCRIPTION

MENDOCINO TRANSITION (ENI.SEATO4): From over ENI VORTAC via ENI R-103 to SEATO INT. Thence . . . .

RED BLUFF TRANSITION (RBL.SEATO4): From over RBL VORTAC via RBL R-153 and ILA R-333 to ILA VORTAC, then via ILA R-157 to SEATO INT. Thence . . . .

SCAGGS ISLAND TRANSITION (SGD.SEATO4): From over SGD VORTAC via SGD R-030 to SEATO INT. Thence . . . .

. . . . From over SEATO INT:
RWY 3L/R: Expect RADAR vectors for ILS or LOC RWY 3L approach.
RWY 21L/R: Expect RADAR vectors for ILS or LOC RWY 21L approach.

LOST COMMUNICATIONS:
RWY 3L via SEATO then TACAN RWY 3L.
RWY 21R via SEATO then TACAN RWY 21R.

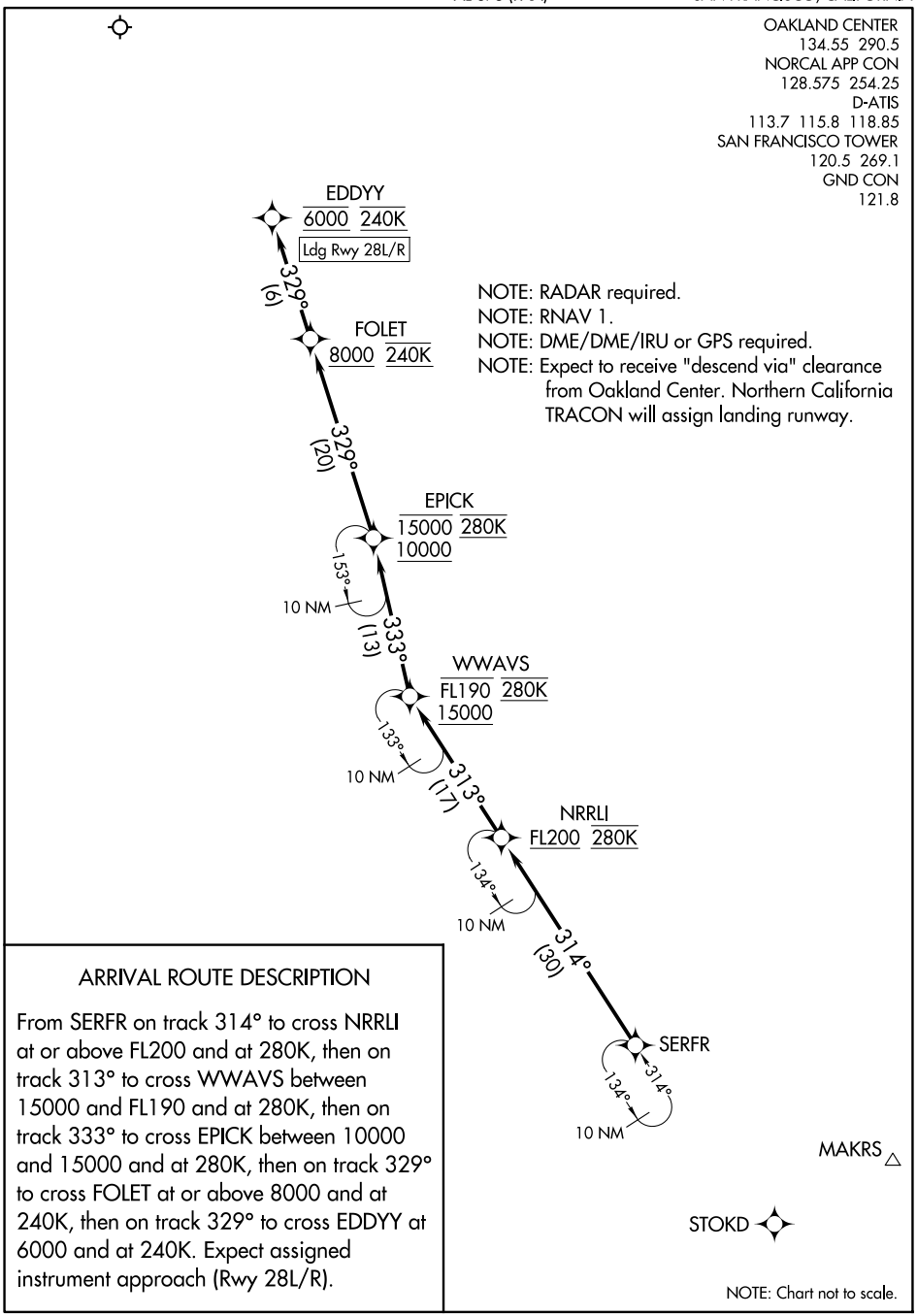
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(SERFR.SERFR4) 19339

SERFR FOUR ARRIVAL (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



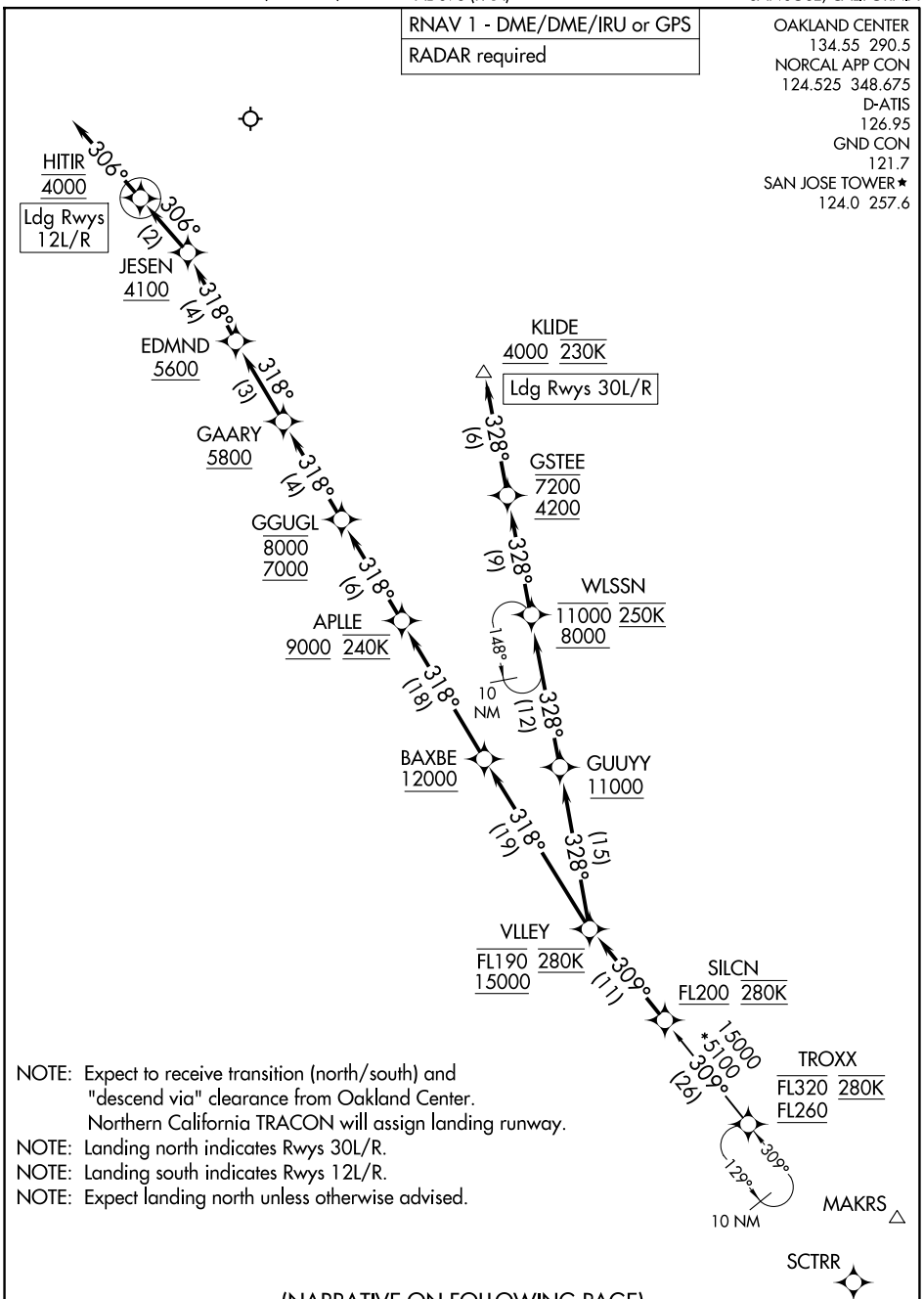
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

SERFR FOUR ARRIVAL (RNAV)

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

(SERFR.SERFR4) 05DEC19


RNAV 1 - DME/DME/IRU or GPS
RADAR required
OAKLAND CENTER
134.55 290.5
NORCAL APP CON
124.525 348.675
D-ATIS
126.95
GND CON
121.7
SAN JOSE TOWER★
124.0 257.6
HITIR
4000
Ldg Rwys 12L/R
306°
(2)
JESEN
4100
318°
(4)
EDMND
5600
318°
(3)
GAARY
5800
318°
(4)
GGUGL
8000
7000
318°
(6)
APLLE
9000 240K
318°
(18)
BAXBE
12000
318°
(19)
VLLEY
FL190 280K
15000
309°
(11)
SILCN
FL200 280K
15000
*5100
309°
(26)
TROXX
FL320 280K
FL260
309°
129°
10 NM
MAKRS
SCTRR
KLIDE
4000 230K
Ldg Rwys 30L/R
328°
(6)
GSTEE
7200
4200
328°
(9)
WLSSN
11000 250K
8000
148°
10 NM
328°
(12)
GUUYY
11000
328°
(15)
NOTE: Expect to receive transition (north/south) and "descend via" clearance from Oakland Center. Northern California TRACON will assign landing runway.
NOTE: Landing north indicates Rwys 30L/R.
NOTE: Landing south indicates Rwys 12L/R.
NOTE: Expect landing north unless otherwise advised.
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)

(SILCN.SILCN6) 22195
SILCN SIX ARRIVAL (RNAV)

AL-693 (FAA)

NORMAN Y MINETA SAN JOSE INTL(SJC)
SAN JOSE, CALIFORNIA

ARRIVAL ROUTE DESCRIPTION

TROXX TRANSITION (TROXX.SILCN6)

From SILCN on track 309° to cross VLLEY between 15000 and FL190 and at 280K.

SOUTH TRANSITION LANDING RUNWAYS 12L/R: From VLLEY on track 318° to cross BAXBE at or above 12000, then on track 318° to cross APLLE at or above 9000 and at 240K, then on track 318° to cross GGUGL between 7000 and 8000, then on track 318° to cross GAARY at or above 5800, then on track 318° to cross EDMND at or above 5600, then on track 318° to cross JESEN at or above 4100, then on track 306° to cross HITIR at 4000, then on track 306°. Expect RADAR vectors to final approach course.

NORTH TRANSITION LANDING RUNWAYS 30L/R: From VLLEY on track 328° to cross GUUYY at or above 11000, then on track 328° to cross WLSSN between 8000 and 11000 and at 250K, then on track 328° to cross GSTEE between 4200 and 7200, then on track 328° to cross KLIDE at or above 4000 and at 230K. Expect assigned intrument approach or RADAR vectors to final approach course.

SW-2, 09 JUL 2026 to 03 SEP 2026

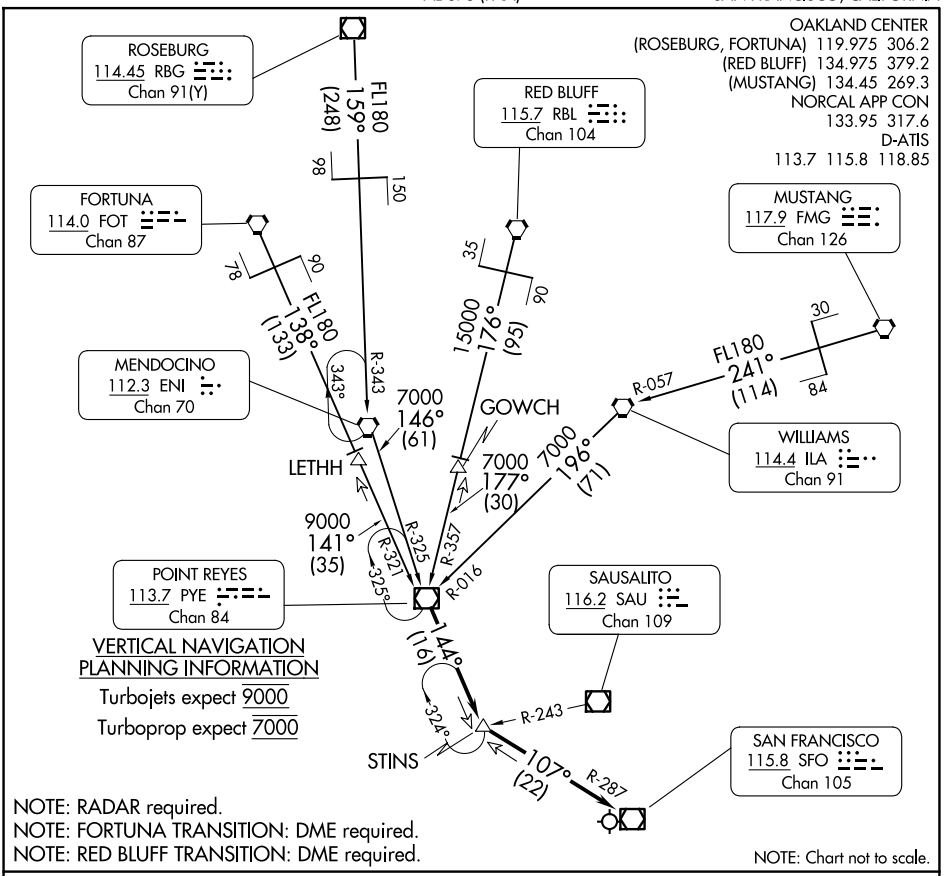
SLMMR FIVE ARRIVAL (RNAV)

(PYE.STINS4) 25163

STINS FOUR ARRIVAL

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

FORTUNA TRANSITION (FOT.STINS4): From over FOT VORTAC on FOT R-138 and PYE R-321 to LETHH, then on PYE R-321 to PYE VOR/DME. Thence. . . .

MENDOCINO TRANSITION (ENI.STINS4): From over ENI VORTAC on ENI R-146 and PYE R-325 to PYE VOR/DME. Thence. . . .

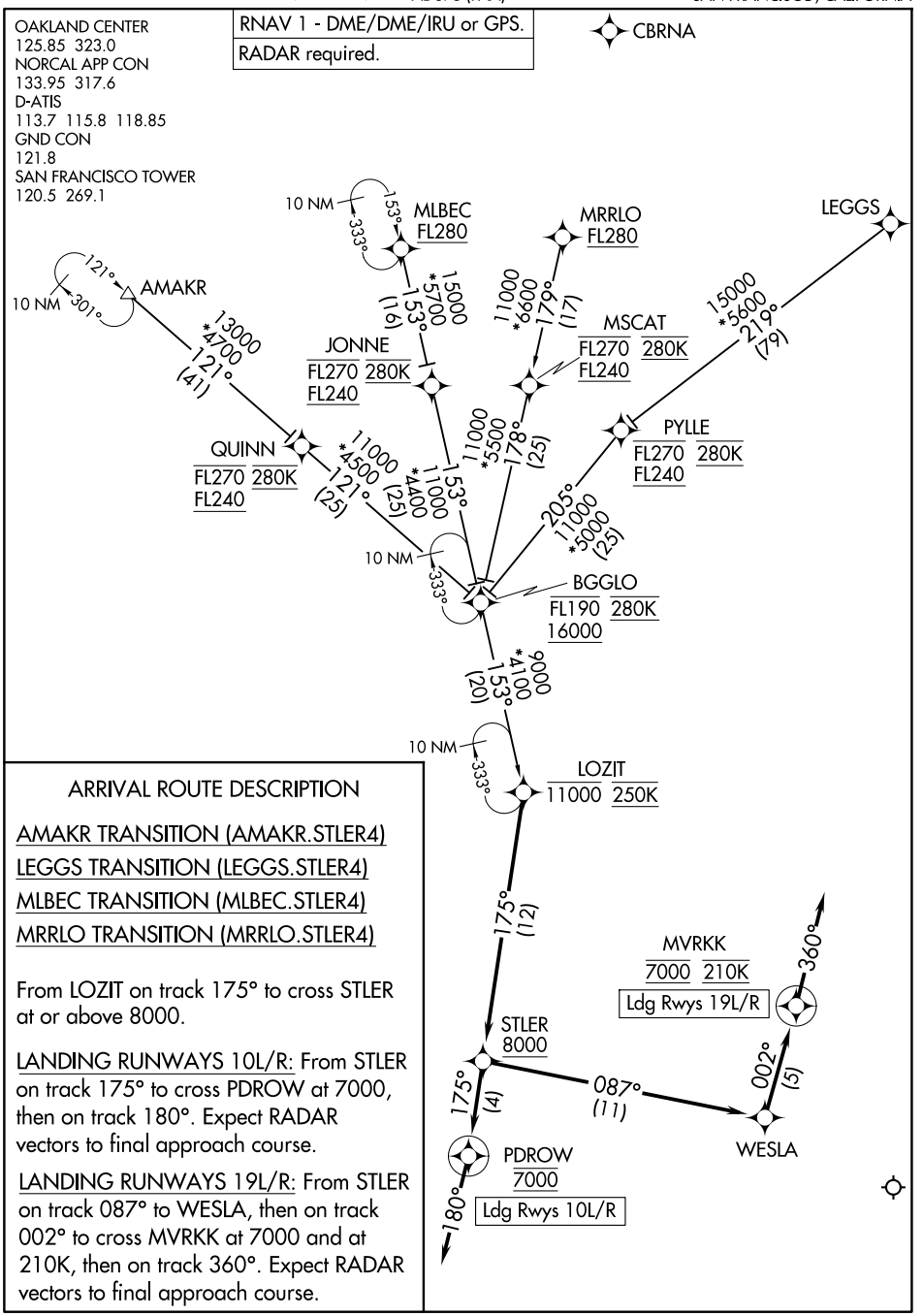
MUSTANG TRANSITION (FMG.STINS4): From over FMG VORTAC on FMG R-241 and ILA R-057 to ILA VORTAC, then on ILA R-196 and PYE R-016 to PYE VOR/DME. Thence. . . .

RED BLUFF TRANSITION (RBL.STINS4): From over RBL VORTAC on RBL R-176 and PYE R-357 to GOWCH, then on PYE R-357 to PYE VOR/DME. Thence. . . .

ROSEBURG TRANSITION (RBG.STINS4): From over RBG VOR/DME on RBG R-159 and ENI R-343 to ENI VORTAC, then on ENI R-146 and PYE R-325 to PYE VOR/DME. Thence. . . .

. . . .From over PYE VOR/DME on PYE R-144 to STINS, then on SFO R-287 to SFO VOR/DME. Expect RADAR vectors to final approach course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026



ARRIVAL ROUTE DESCRIPTION

AMAKR TRANSITION (AMAKR.STLER4)

LEGGS TRANSITION (LEGGS.STLER4)

MLBEC TRANSITION (MLBEC.STLER4)

MRRLO TRANSITION (MRRLO.STLER4)

From LOZIT on track 175° to cross STLER at or above 8000.

LANDING RUNWAYS 10L/R: From STLER on track 175° to cross PDROW at 7000, then on track 180°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 19L/R: From STLER on track 087° to WESLA, then on track 002° to cross MVRKK at 7000 and at 210K, then on track 360°. Expect RADAR vectors to final approach course.

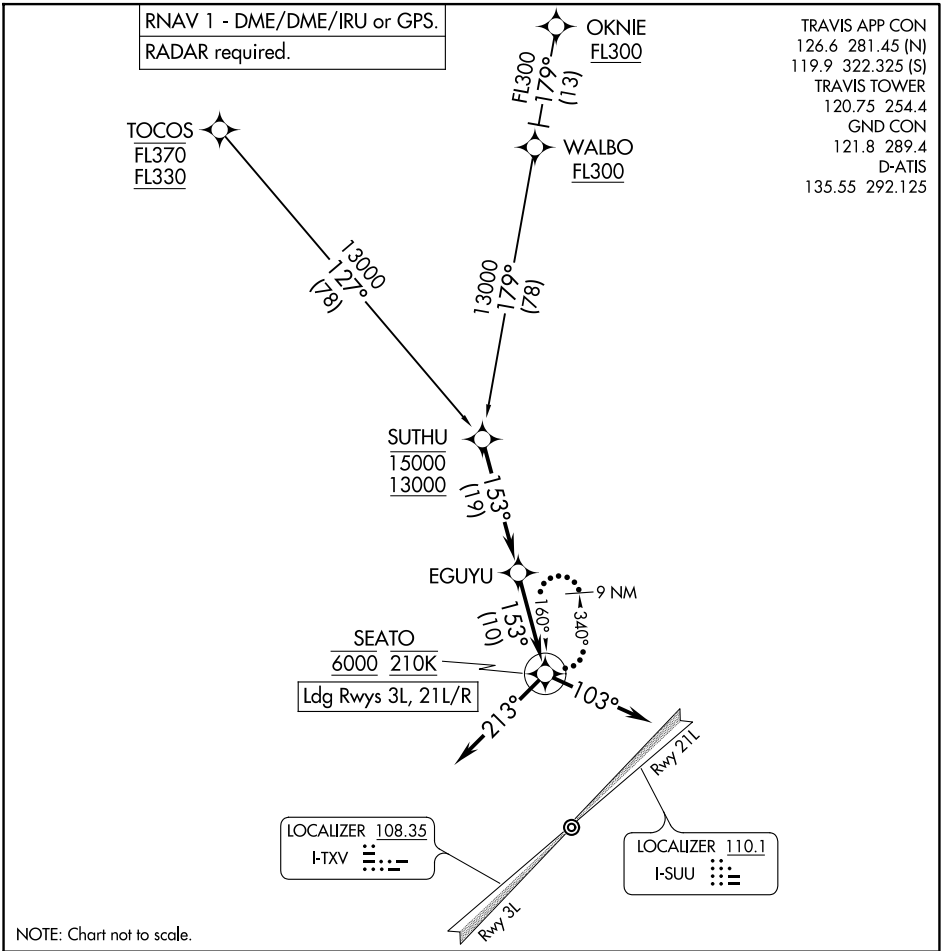
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(SUTHU.SUTHU2) 22139

SUTHU TWO ARRIVAL (RNAV)

AL-488 (FAA)

TRAVIS AFB (KSUU)
FAIRFIELD, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

OKNIE TRANSITION (OKNIE.SUTHU2)
TOCOS TRANSITION (TOCOS.SUTHU2)

From SUTHU on track 153° to EGUYU.

LANDING RUNWAY 3L: From EGUYU on track 153° to cross SEATO at 6000 and at 210K, then on heading 213°. Expect RADAR vectors to final approach course.

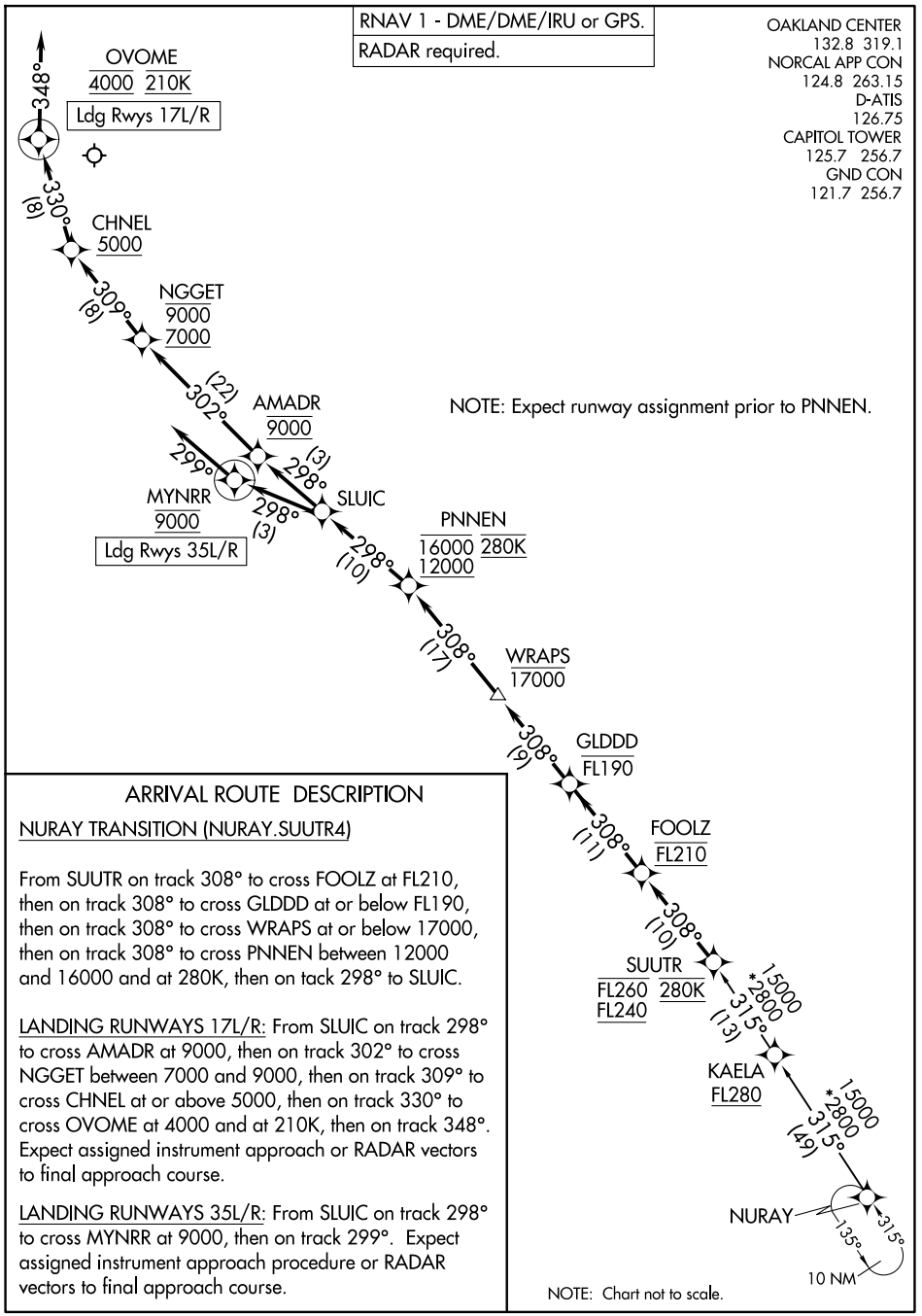
LANDING RUNWAYS 21L/R: From EGUYU on track 153° to cross SEATO at 6000 and at 210K, then on heading 103°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS: From SEATO, execute ILS or LOC RWY 21L or TACAN RWY 3L approach. If unable, hold at SEATO as depicted, maintain 6000.

SUUTR FOUR ARRIVAL (RNAV)

AL-5490 (FAA)

SACRAMENTO, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

NURAY TRANSITION (NURAY.SUUTR4)

From SUUTR on track 308° to cross FOOLZ at FL210, then on track 308° to cross GLDDD at or below FL190, then on track 308° to cross WRAPS at or below 17000, then on track 308° to cross PNNEN between 12000 and 16000 and at 280K, then on tack 298° to SLUIC.

LANDING RUNWAYS 17L/R: From SLUIC on track 298° to cross AMADR at 9000, then on track 302° to cross NGGET between 7000 and 9000, then on track 309° to cross CHNEL at or above 5000, then on track 330° to cross OVOME at 4000 and at 210K, then on track 348°. Expect assigned instrument approach or RADAR vectors to final approach course.

LANDING RUNWAYS 35L/R: From SLUIC on track 298° to cross MYNRR at 9000, then on track 299°. Expect assigned instrument approach procedure or RADAR vectors to final approach course.

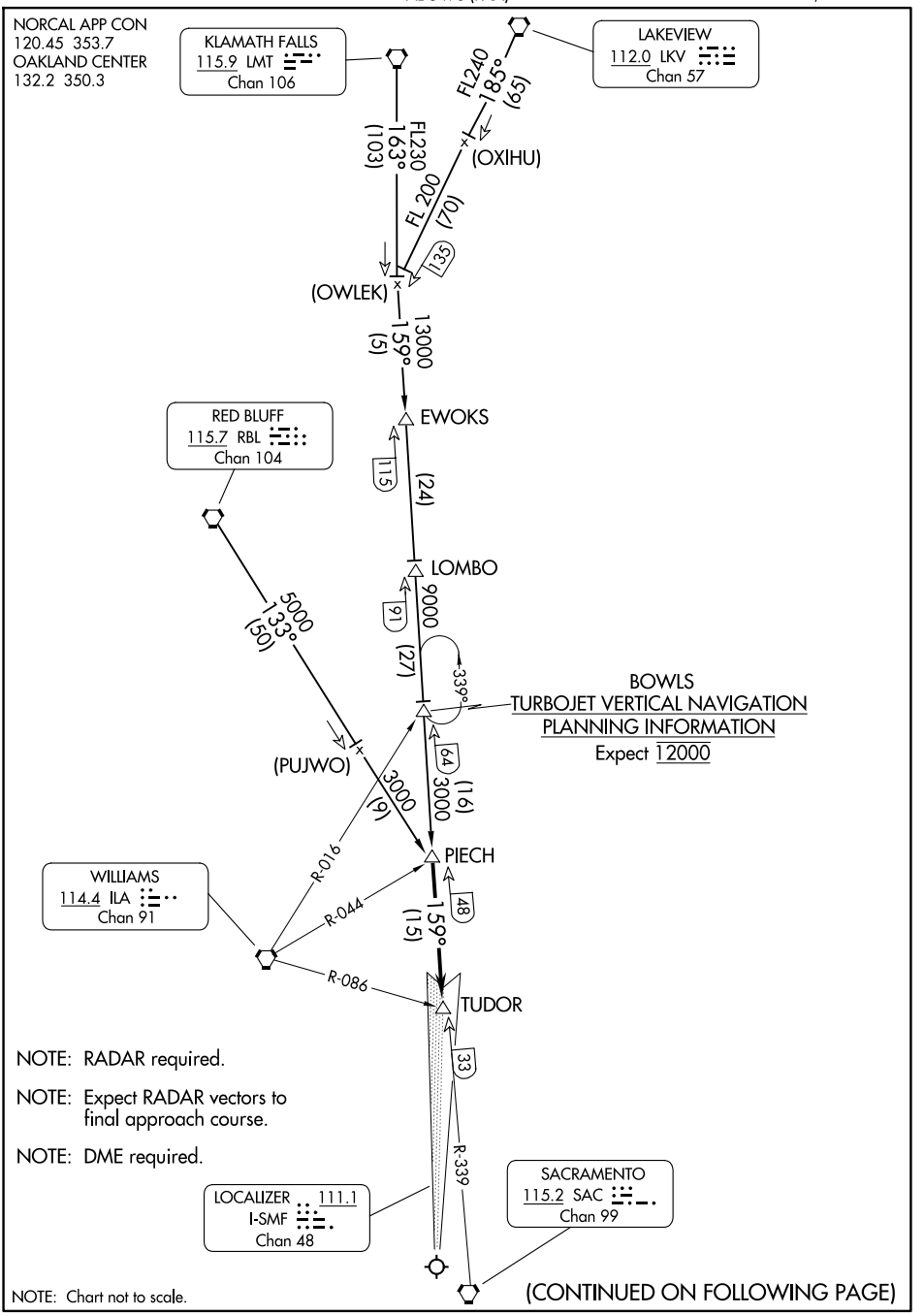
SW-2, 09 JUL 2026 to 03 SEP 2026

(TUDOR.TUDOR2) 24025

TUDOR TWO ARRIVAL

AL-5490 (FAA)

SACRAMENTO INTL (SMF)
SACRAMENTO, CALIFORNIA



TUDOR TWO ARRIVAL

(TUDOR.TUDOR2) 09FEB12

SACRAMENTO, CALIFORNIA
SACRAMENTO INTL (SMF)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ARRIVAL ROUTE DESCRIPTION

KLAMATH FALLS TRANSITION (LMT.TUDOR2): From over LMT VORTAC via LMT R-163 and SAC R-339 to PIECH INT. Thence . . . .

LAKEVIEW TRANSITION (LKV.TUDOR2): From over LKV VORTAC via LKV R-185 and SAC R-339 to PIECH INT. Thence . . . .

RED BLUFF TRANSITION (RBL.TUDOR2): From over RBL VORTAC via RBL R-133 to PIECH INT. Thence . . . .

. . . . From PIECH INT via SAC R-339 to TUDOR INT/DME. Expect RADAR vectors.

SW-2, 09 JUL 2026 to 03 SEP 2026

(OAK.VNYRD1) 24193

AL-281 (FAA)

VNYRD ONE ARRIVAL (RNAV) Transition Routes

NAPA, CALIFORNIA

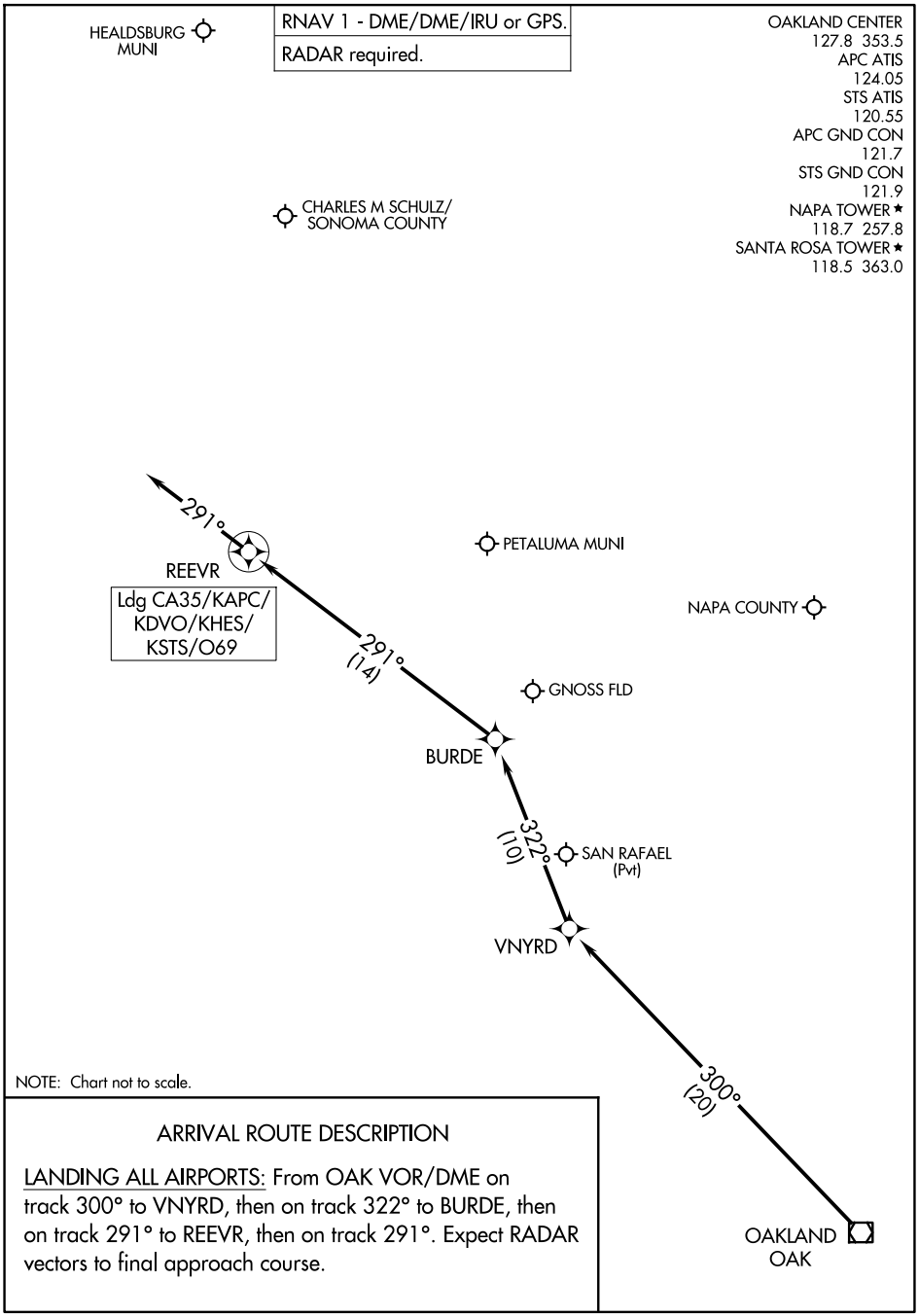
VNYRD ONE ARRIVAL (RNAV) Transition Routes

NAPA, CALIFORNIA

(OAK.VNYRD1) 11JUL24

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026



ARRIVAL ROUTE DESCRIPTION

LANDING ALL AIRPORTS: From OAK VOR/DME on track 300° to VNYRD, then on track 322° to BURDE, then on track 291° to REEVR, then on track 291°. Expect RADAR vectors to final approach course.

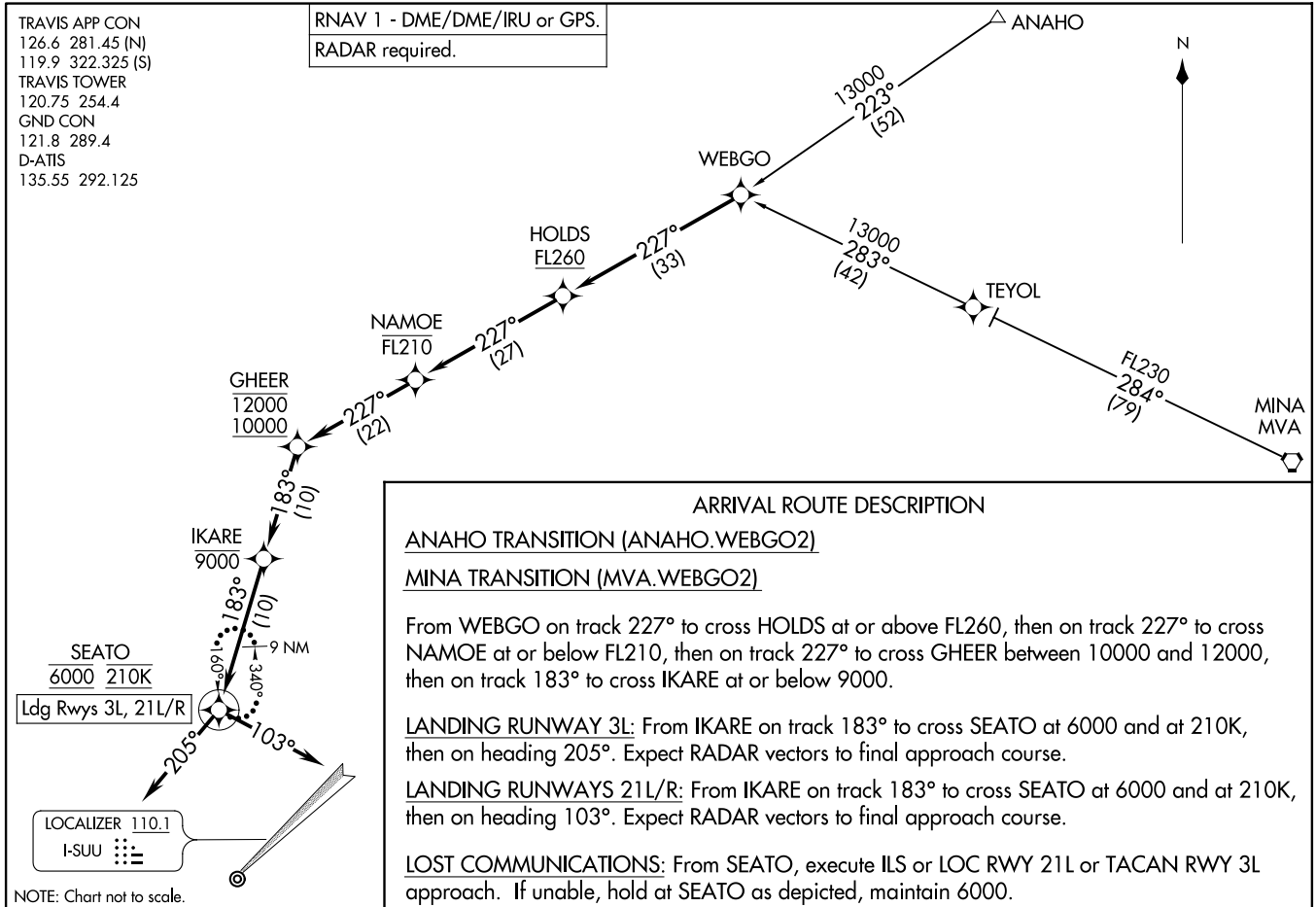
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WEBGO TWO ARRIVAL (RNAV)

(WEBGO.WEBGO2) 19MAY22

TRAVIS APP CON
126.6 281.45 (N)
119.9 322.325 (S)
TRAVIS TOWER
120.75 254.4
GND CON
121.8 289.4
D-ATIS
135.55 292.125

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

ANAHO TRANSITION (ANAHO.WEBGO2)

MINA TRANSITION (MVA.WEBGO2)

From WEBGO on track 227° to cross HOLDS at or above FL260, then on track 227° to cross NAMOE at or below FL210, then on track 227° to cross GHEER between 10000 and 12000, then on track 183° to cross IKARE at or below 9000.

LANDING RUNWAY 3L: From IKARE on track 183° to cross SEATO at 6000 and at 210K, then on heading 205°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 21L/R: From IKARE on track 183° to cross SEATO at 6000 and at 210K, then on heading 103°. Expect RADAR vectors to final approach course.

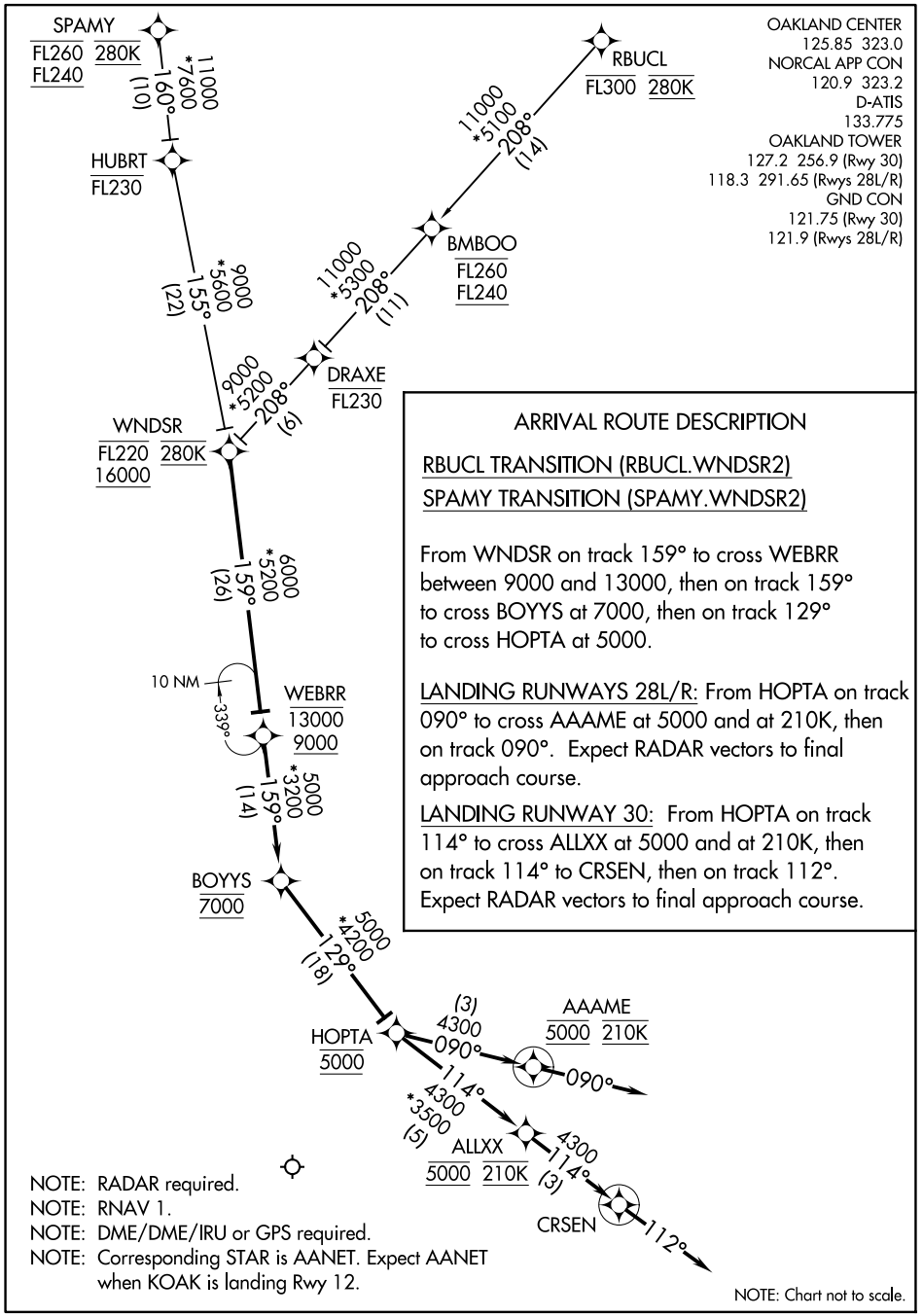
LOST COMMUNICATIONS: From SEATO, execute ILS or LOC RWY 21L or TACAN RWY 3L approach. If unable, hold at SEATO as depicted, maintain 6000.

FAIRFIELD, CALIFORNIA
TRAVIS AFB (KSUU)

(WEBGO.WEBGO2) 22139
WEBGO TWO ARRIVAL (RNAV)
TRAVIS AFB (KSUU)
FAIRFIELD, CALIFORNIA

AL-488 (FAA)

Z45



ARRIVAL ROUTE DESCRIPTION

RBUCL TRANSITION (RBUCL.WNDSR2)
SPAMY TRANSITION (SPAMY.WNDSR2)

From WNDSR on track 159° to cross WEBRR between 9000 and 13000, then on track 159° to cross BOYYS at 7000, then on track 129° to cross HOPTA at 5000.

LANDING RUNWAYS 28L/R: From HOPTA on track 090° to cross AAAME at 5000 and at 210K, then on track 090°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 30: From HOPTA on track 114° to cross ALLXX at 5000 and at 210K, then on track 114° to CRSEN, then on track 112°. Expect RADAR vectors to final approach course.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Corresponding STAR is AANET. Expect AANET when KOAK is landing Rwy 12.

NOTE: Chart not to scale.

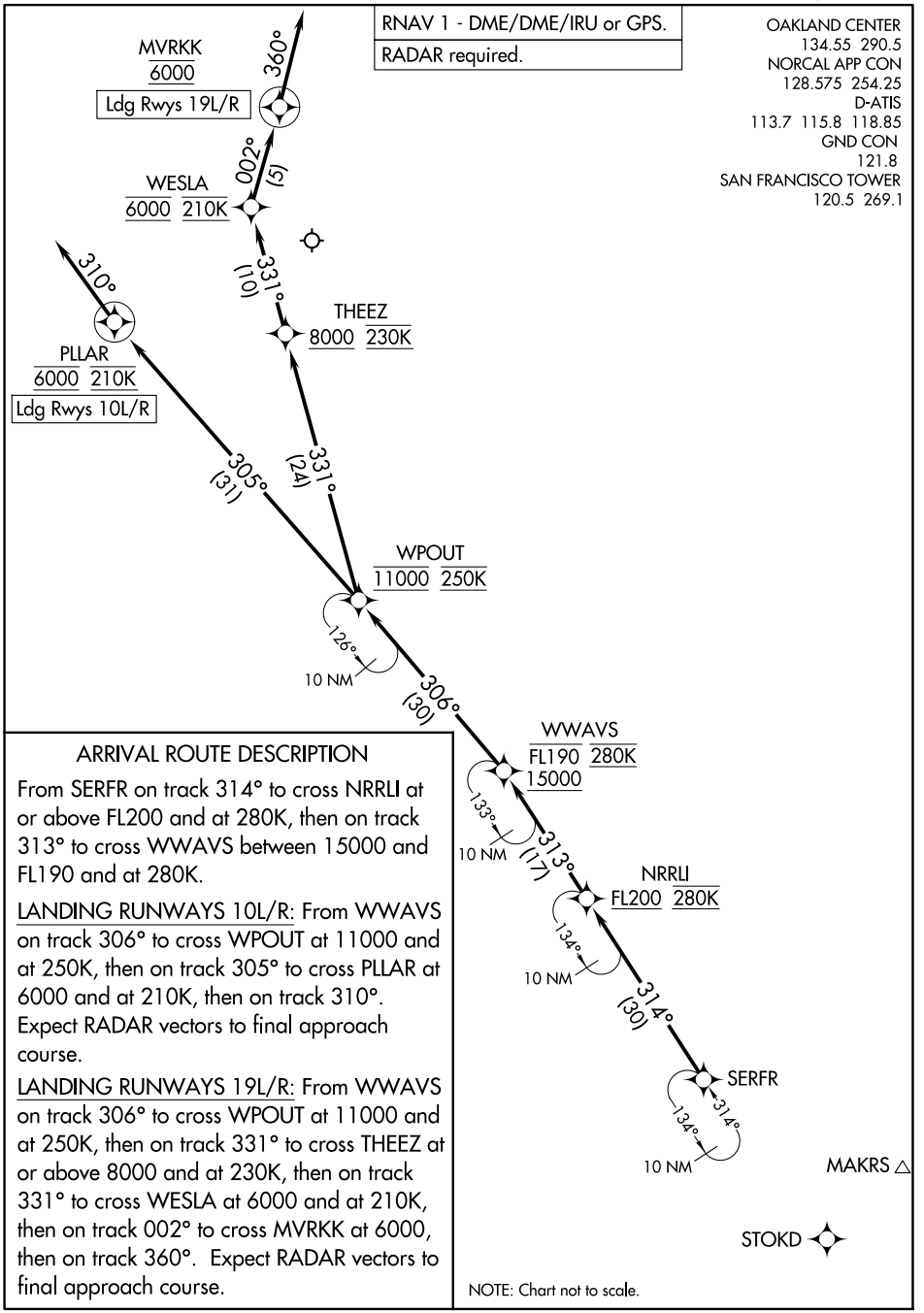
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(SERFR.WWAVS2) 24193

WWAVS TWO ARRIVAL (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

From SERFR on track 314° to cross NRRLI at or above FL200 and at 280K, then on track 313° to cross WWAVS between 15000 and FL190 and at 280K.

LANDING RUNWAYS 10L/R: From WWAVS on track 306° to cross WPOUT at 11000 and at 250K, then on track 305° to cross PLLAR at 6000 and at 210K, then on track 310°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 19L/R: From WWAVS on track 306° to cross WPOUT at 11000 and at 250K, then on track 331° to cross THEEZ at or above 8000 and at 230K, then on track 331° to cross WESLA at 6000 and at 210K, then on track 002° to cross MVRKK at 6000, then on track 360°. Expect RADAR vectors to final approach course.

WWAVS TWO ARRIVAL (RNAV)

(SERFR.WWAVS2) 11JUL24

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

YOSEM THREE ARRIVAL (RNAV)

AL-375 (FAA)

ARRIVAL ROUTE DESCRIPTION

From YOSEM on track 248° to SNORA, then on track 248° to cross ZOMER at/above FL270 and at 280K.

LANDING RUNWAYS 28L/R: From ZOMER on track 247° to cross FRIGG at/below FL190, then on track 249° to cross SOOIE between 11000 and 13000 and at 250K, then on track 248° to cross FAITH at 8000. Expect assigned instrument approach procedure, or expect RADAR vectors to final.

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: YOSEM3 STAR ATC assigned only.

NOTE: Chart not to scale.

INTENTIONALLY

LEFT

BLANK

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

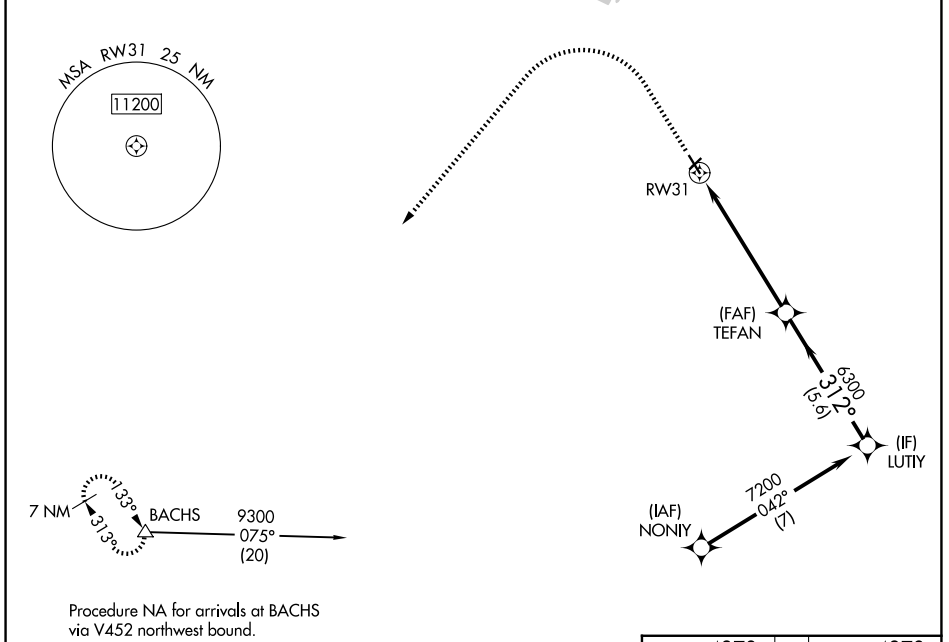
WAAS	APP CRS	Rwy Ldg	4228
CH 70620	312°	TDZE	4378
W31A		Apt Elev	4378

RNAV (GPS) RWY 31
ALTURAS MUNI (AAT)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 54°C (130°F). Rwy 31 helicopter visibility reduction below 1 SM NA. DME/DME RNP- 0.3 NA. Procedure NA at night.

MISSED APPROACH: Climb to 5400, then climbing left turn to 9000 direct BACHS and hold.

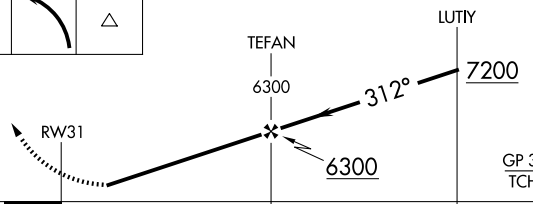
ASOS	SEATTLE CENTER	UNICOM
124.175	127.6 346.35	122.8 (CTAF) L



Procedure NA for arrivals at BACHS via V452 northwest bound.

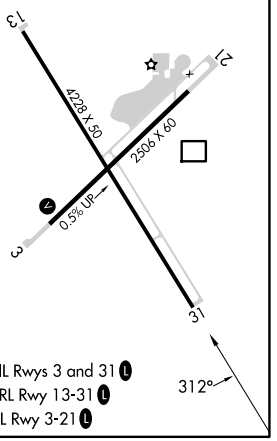
5400	9000	BACHS

VGSI and RNAV glidepath not coincident.



CATEGORY	A	B	C	D
LPV DA	4830-1⅜	452 (500-1⅜)	NA	
LNAV/VNAV DA	4880-1⅜	502 (600-1⅜)	NA	
LNAV MDA	5120-1 742 (800-1)	5120-1¼ 742 (800-1¼)	NA	
CIRCLING	5120-1 742 (800-1)	5200-1¼ 822 (900-1¼)	NA	

ELEV 4378 TDZE 4378



REIL Rwys 3 and 31 L
MIRL Rwy 13-31 L
LIRL Rwy 3-21 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(BACHS2.BACHS) 23278

BACHS TWO DEPARTURE (OBSTACLE) (RNAV)

AL-6436 (FAA)

ALTURAS MUNI (AAT)
ALTURAS, CALIFORNIA

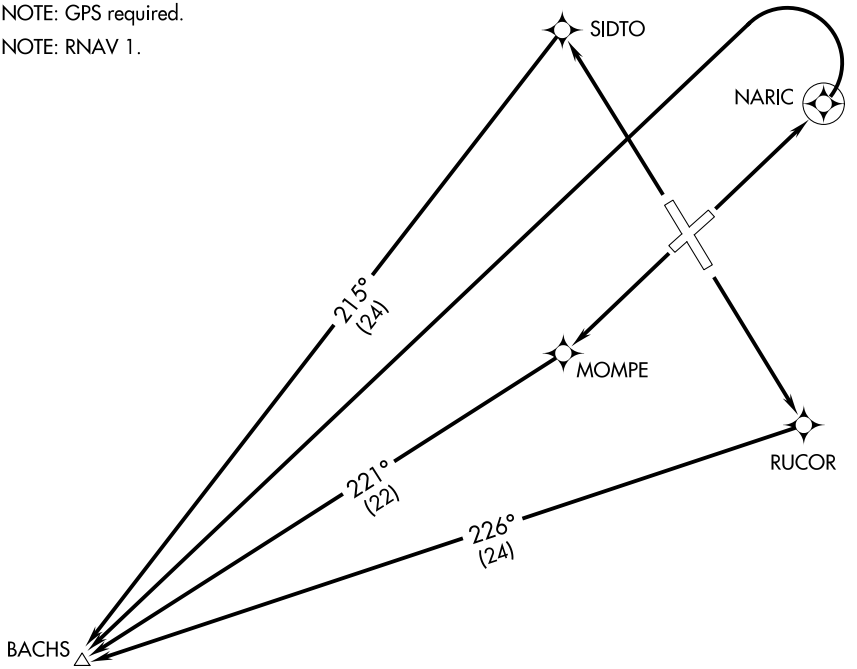
SEATTLE CENTER
127.6 346.35
CTAF
122.8

TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 340′ per NM to 5900.
Rwy 13: Standard with minimum climb of 230′ per NM to 8200.
Rwy 21: Standard with minimum climb of 365′ per NM to 6000.
Rwy 31: Standard with minimum climb of 450′ per NM to 5800.

NOTE: GPS required.

NOTE: RNAV 1.



TAKEOFF OBSTACLE NOTES

Rwy 3: Trees, buildings, poles and a road with vehicles beginning 1′ from DER, right and left of centerline, up to 100′ AGL/4659′ MSL.
Rwy 21: Trees and road with vehicles beginning 1′ from DER, right and left of centerline, to 100′ AGL/4469′ MSL.
Rwy 13: Trees and a road with vehicles beginning 1′ from DER, right and left of centerline, up to 100′ AGL/4519′ MSL.
Rwy 31: Trees and road with vehicles beginning 1′ from DER, right and left of centerline, up to 100′ AGL/4469′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb to 9000 direct NARIC, then climbing left turn direct BACHS.

TAKEOFF RUNWAY 13: Climb to 9000 direct RUCOR, turn right via 226° track to BACHS.

TAKEOFF RUNWAY 21: Climb to 9000 direct MOMPE, then via 221° track to BACHS.

TAKEOFF RUNWAY 31: Climb to 9000 direct SIDTO, turn left via 215° track to BACHS.

SW-2, 09 JUL 2026 to 03 SEP 2026

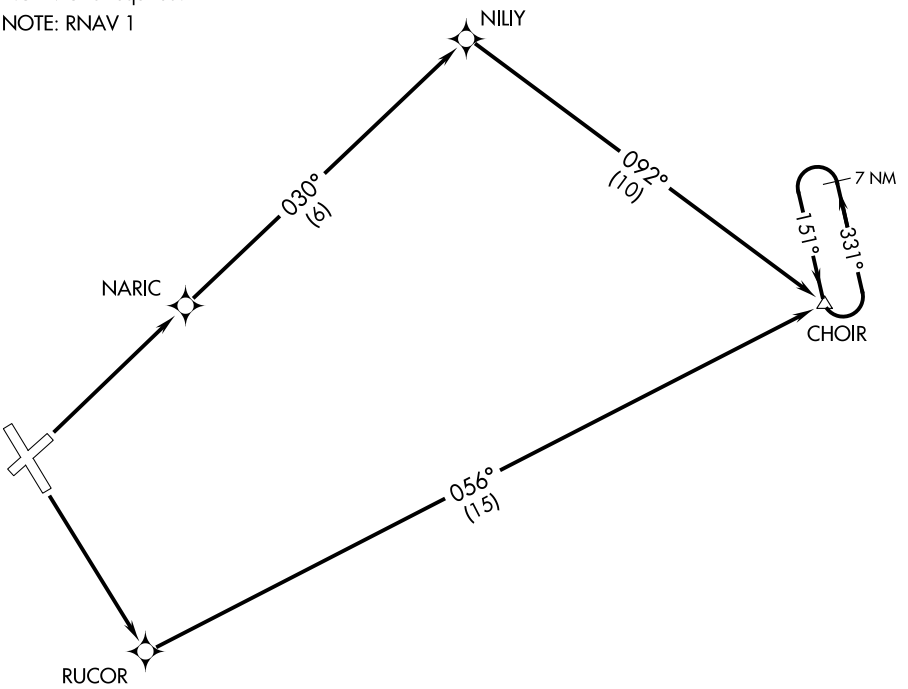
SW-2, 09 JUL 2026 to 03 SEP 2026

TOP ALTITUDE: ASSIGNED BY ATC

SEATTLE CENTER
127.6 346.35
CTAF 122.8

TAKEOFF MINIMUMS
Rwy 3: Standard with minimum climb of 367' per NM to 11000.
Rwy 13: Standard with minimum climb of 389' per NM to 11000.
Rwys 21 and 31: NA - ATC.

NOTE: GPS required.
NOTE: RNAV 1



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb to 11000 direct NARIC and via 030° track to NILIY and via 092° track to CHOIR, thence....

TAKEOFF RUNWAY 13: Climb to 11000 direct RUCOR and via 056° track to CHOIR, thence....

....climb in holding, (if required) before proceeding on course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

HERLONG, CALIFORNIA

RNAV (GPS) RWY 27

APCH CRS	Rwy ldg	10,000
266°	TDZE	4012
	Arpt Elev	4012

AL-6624 (USA)

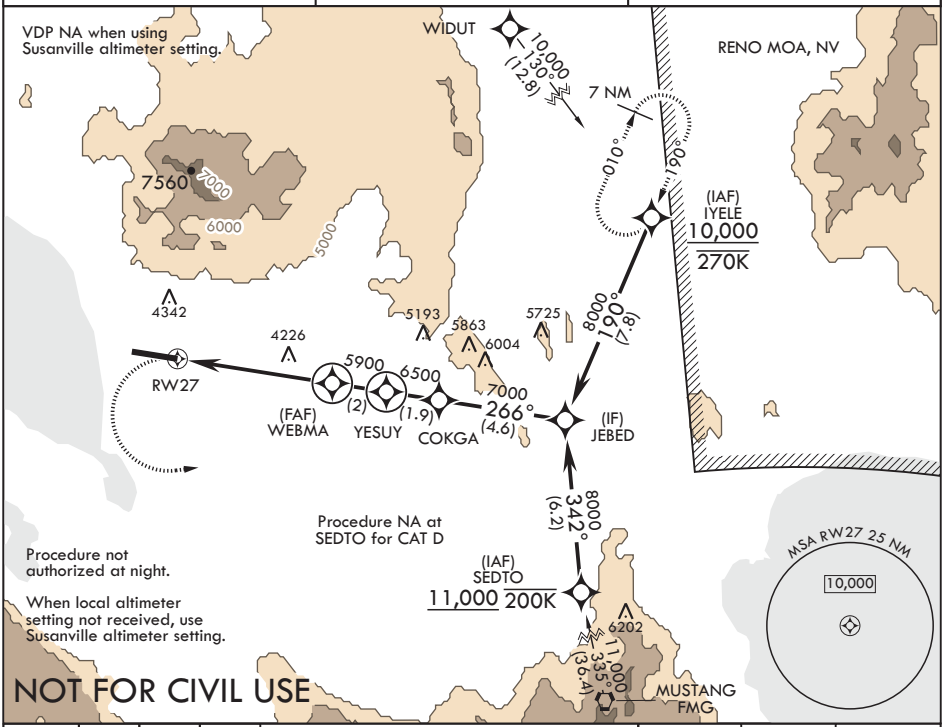
AMEDEE AAF (KAHC)

RNP APCH - GPS.

T A NA * Circling NA for CAT CD north of Rwy 9-27.

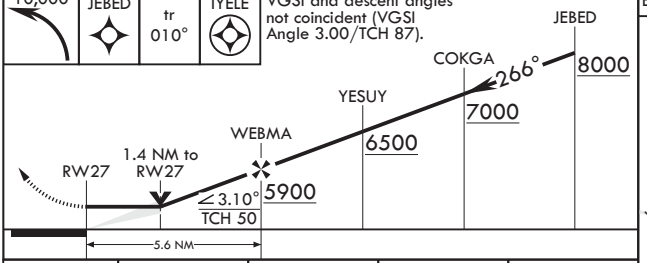
MISSED APPROACH: Climbing left turn to 10,000 direct JEBED and track 010° to IYELE and hold, continue climb-in-hold to 10,000. When authorized by ATC, climb-in-hold to 14,000.

AWOS-3	OAKLAND CENTER	CTAF
118.825	128.8 285.5	126.2 241.9

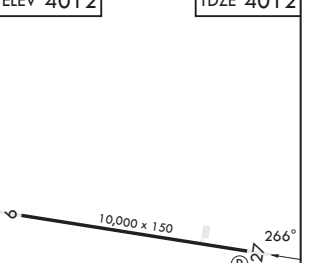


10,000	JEBED	tr 010°	IYELE

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 87).



ELEV 4012 TDZE 4012



CATEGORY	A	B	C	D
LNAV MDA	4540-1 528 (600-1)		4540-1½ 528 (600-1½)	
C CIRCLING	4540-1 528 (600-1)	4680-1 668 (700-1)	4680-1¾ 668 (700-1¾)	4680-2 668 (700-2)
SUSANVILLE ALTIMETER SETTING MINIMUMS				
LNAV MDA	4620-1 608 (700-1)		4620-2 608 (700-2)	
C CIRCLING	4620-1 608 (700-1)	4760-1 748 (800-1)	4760-2¼ 748 (800-2¼)	4760-2½ 748 (800-2½)

HERLONG, CALIFORNIA

40°16'N - 120°09'W

AMEDEE AAF (KAHC)

Amdt 3 13JUL23
TERPS

RNAV (GPS) RWY 27

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-ACV	APP CRS	Rwy Ldg	5846
109.5	316°	TDZE	221
Chan 32		Apt Elev	222

ILS or LOC RWY 32

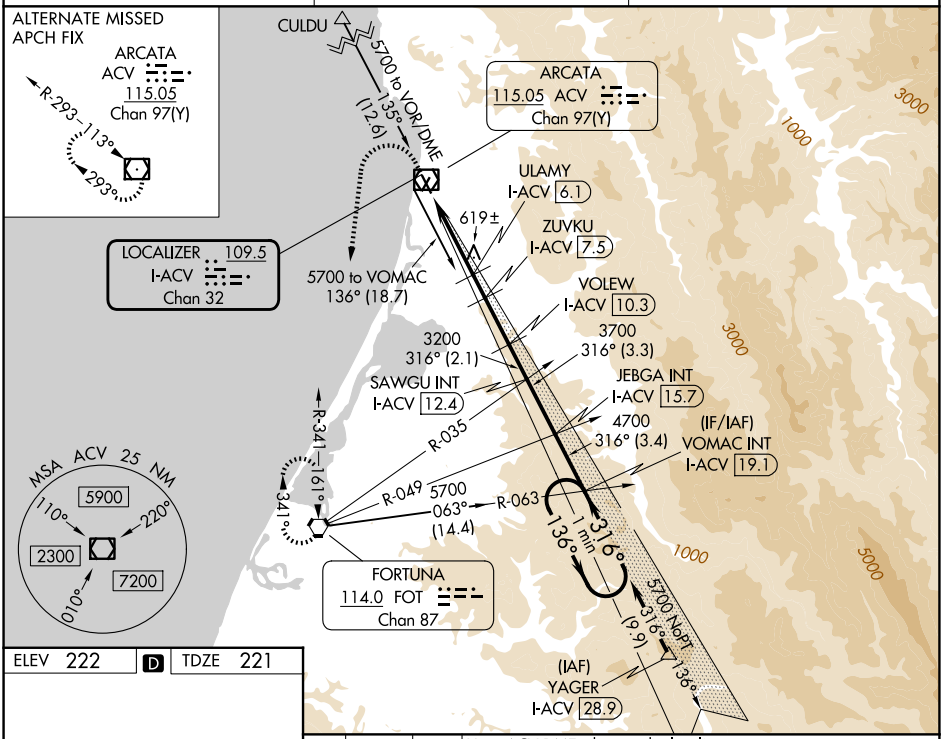
CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY (ACV)

NA — Circling NA northeast of Rwy 14-32. DME required.

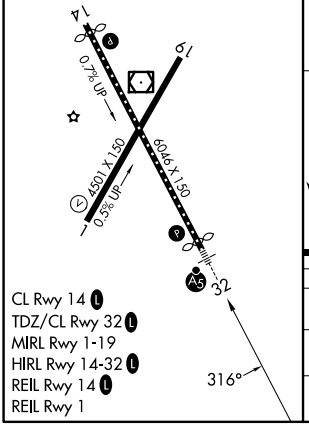
MALSR

MISSED APPROACH: Climb to 800 then climbing left turn to 3000 direct FOT VORTAC and hold.

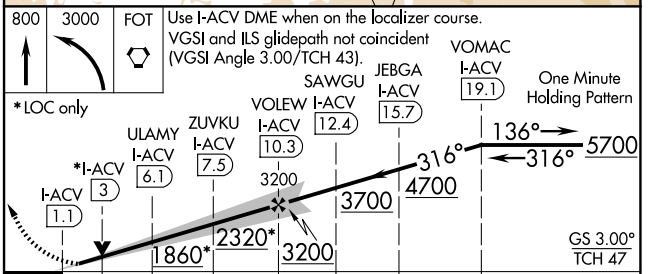
ASOS	SEATTLE CENTER	UNICOM
118.525	124.85 306.3	123.0 (CTAF) L



ELEV 222 D TDZE 221



CL Rwy 14 L
TDZ/CL Rwy 32 L
MIRL Rwy 1-19
HIRL Rwy 14-32 L
REIL Rwy 14 L
REIL Rwy 1



CATEGORY	A	B	C	D
S-ILS 32	441/18 220 (300-½)			
S-LOC 32	880/24 659 (700-½)		880-1⅜ 659 (700-1⅜)	
CIRCLING	880-1 658 (700-1)		880-1⅞ 658 (700-1⅞)	880-2 658 (700-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	4501
CH 63200	013°	TDZE	204
W01A		Apt Elev	222

RNAV (GPS) RWY 1

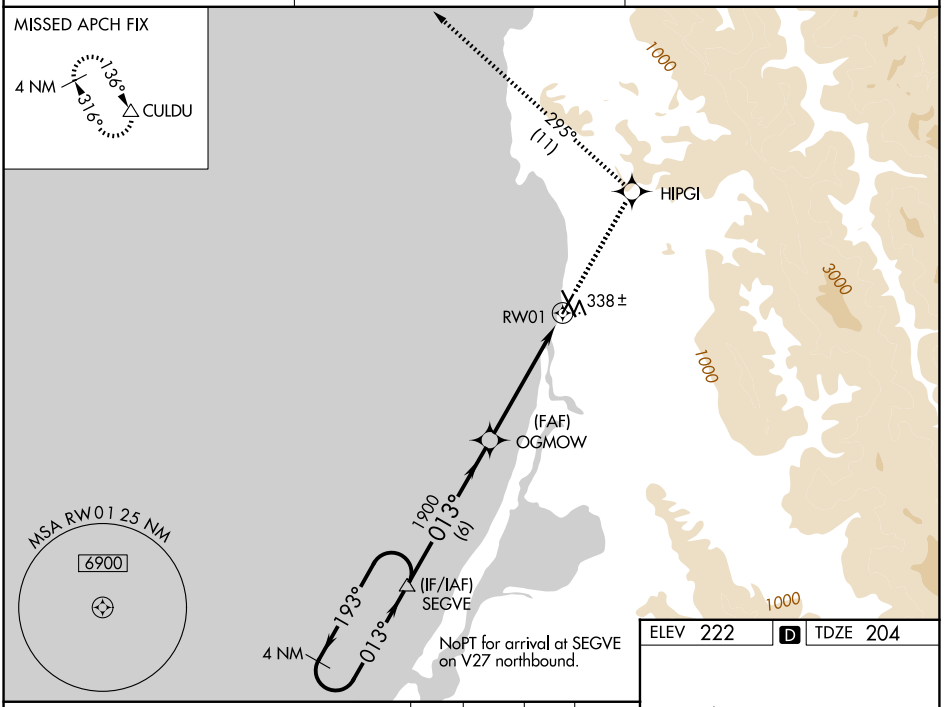
CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY (ACV)

RNP APCH - GPS.

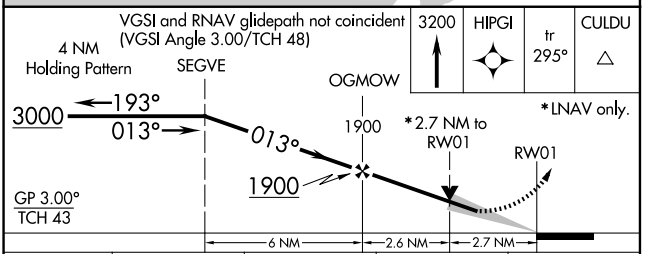
T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C. Circling NA northeast of Rwy 14-32.

MISSED APPROACH: Climb to 3200 direct HIPGI and on track 295° to CULDU and hold.

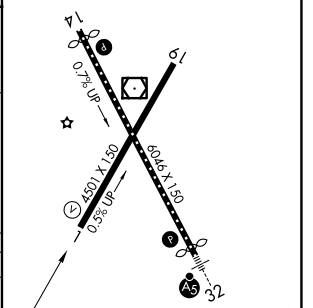
ASOS	SEATTLE CENTER	UNICOM
118.525	124.85 306.3	123.0 (CTAF) L



ELEV 222 D TDZE 204



CATEGORY	A	B	C	D
LPV DA	870-2½ 666 (700-2½)			
LNAV/VNAV DA	838-2½ 634 (700-2½)			
LNAV MDA	1080-1 876 (900-1)	1080-1¼ 876 (900-1¼)	1080-2½ 876 (900-2½)	
CIRCLING	1080-1¼ 858 (900-1¼)		1080-2½ 858 (900-2½)	1080-2¾ 858 (900-2¾)



SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS		
CH **62801**	**136°**	Rwy Ldg	**5601**
W14A		TDZE	**205**
		Apt Elev	**222**

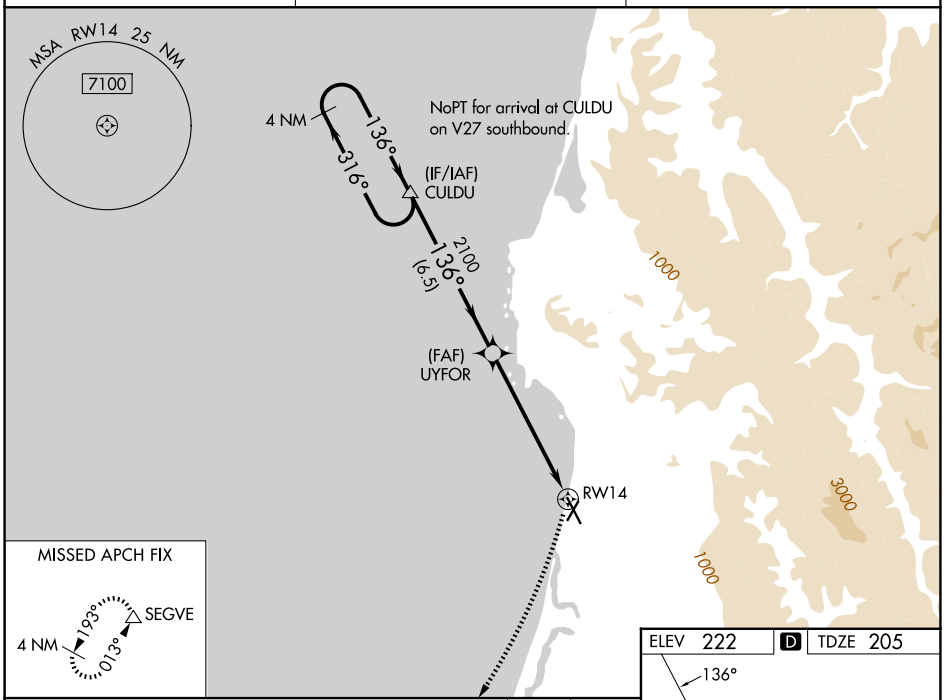
RNAV (GPS) RWY 14

CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY (ACV)

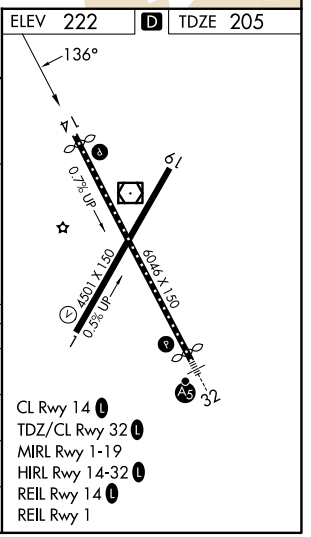
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C (29°F) or above 54°C (130°F). Circling NA northeast of Rwy 14-32. DME/DME RNP-0.3 NA. Rwy 14 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing right turn to 3000 direct SEGVE and hold.

ASOS	SEATTLE CENTER	UNICOM
118.525	**124.85 306.3**	**123.0** (CTAF) L



CATEGORY	A	B	C	D
LPV DA	455/45 250 (300-⅞)			
LNAV/VNAV DA	570-1¼ 365 (400-1¼)			
LNAV MDA	820/55 615 (600-1)		820-1¾ 615 (600-1¾)	
CIRCLING	820-1 598 (600-1)		840-1¾ 618 (700-1¾)	880-2 658 (700-2)



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ARCATA/EUREKA, CALIFORNIA | AL-519 (FAA) | 25275

WAAS	APP CRS	Rwy Ldg	5846
CH 63108	316°	TDZE	221
W32A		Apt Elev	222

RNAV (GPS) RWY 32

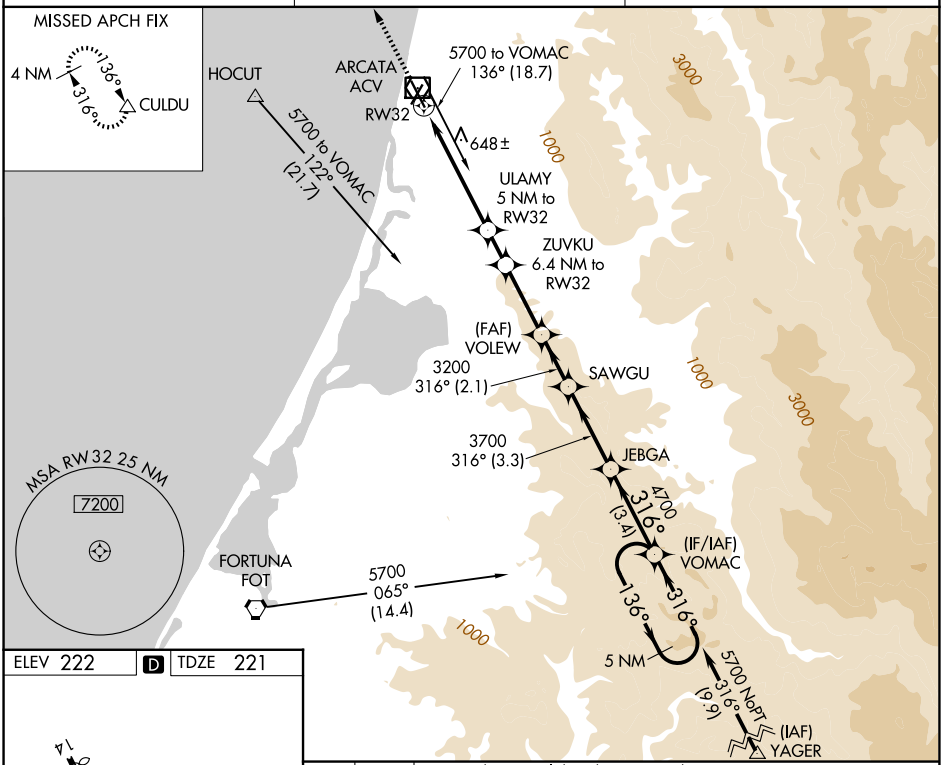
CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY (ACV)

T A — Baro-VNAV NA. Circling NA northeast of Rwy 14-32. DME/DME RNP-0.3 NA.

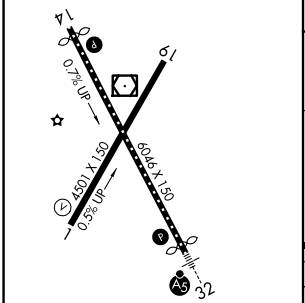
MALSR

MISSED APPROACH: Climb to 3000 direct CULDU and hold.

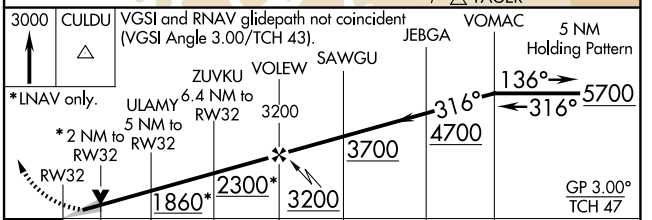
ASOS	SEATTLE CENTER	UNICOM
118.525	124.85 306.3	123.0 (CTAF) L



ELEV 222 | D | TDZE 221



CL Rwy 14 L
TDZ/CL Rwy 32 L
MIRL Rwy 1-19
HIRL Rwy 14-32 L
REIL Rwy 14 L
REIL Rwy 1



CATEGORY	A	B	C	D
LPV DA	441/18 220 (300-½)			
LNAV/VNAV DA	1056-2½ 835 (900-2½)			
LNAV MDA	900/24 679 (700-½)	900/40 679 (700-¾)	900-1½ 679 (700-1½)	
CIRCLING	900-1 678 (700-1)		900-2 678 (700-2)	900-2¼ 678 (700-2¼)

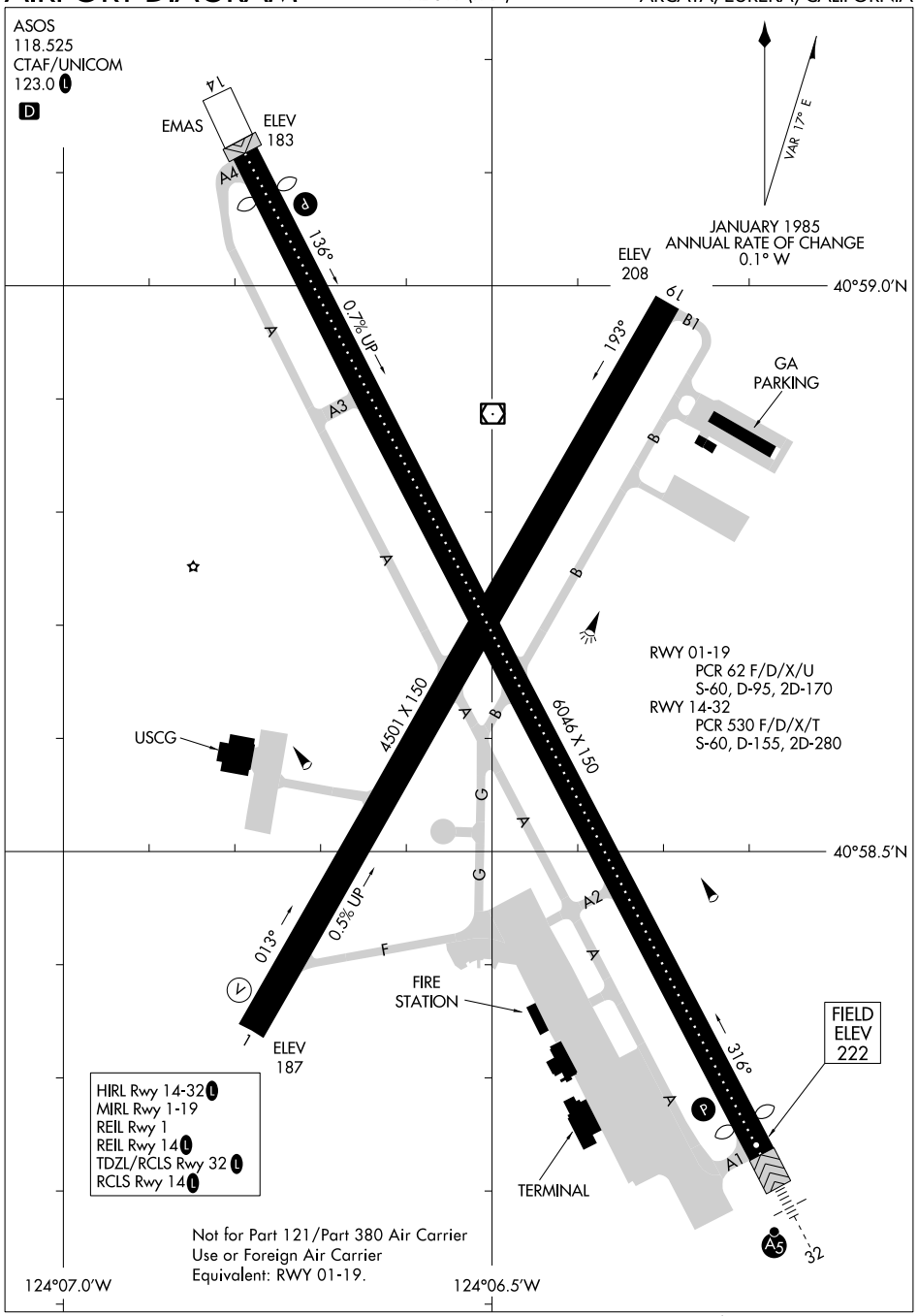
ARCATA/EUREKA, CALIFORNIA
Amdt 2A 26APR18

CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY (ACV)
40°59′N-124°07′W

RNAV (GPS) RWY 32

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

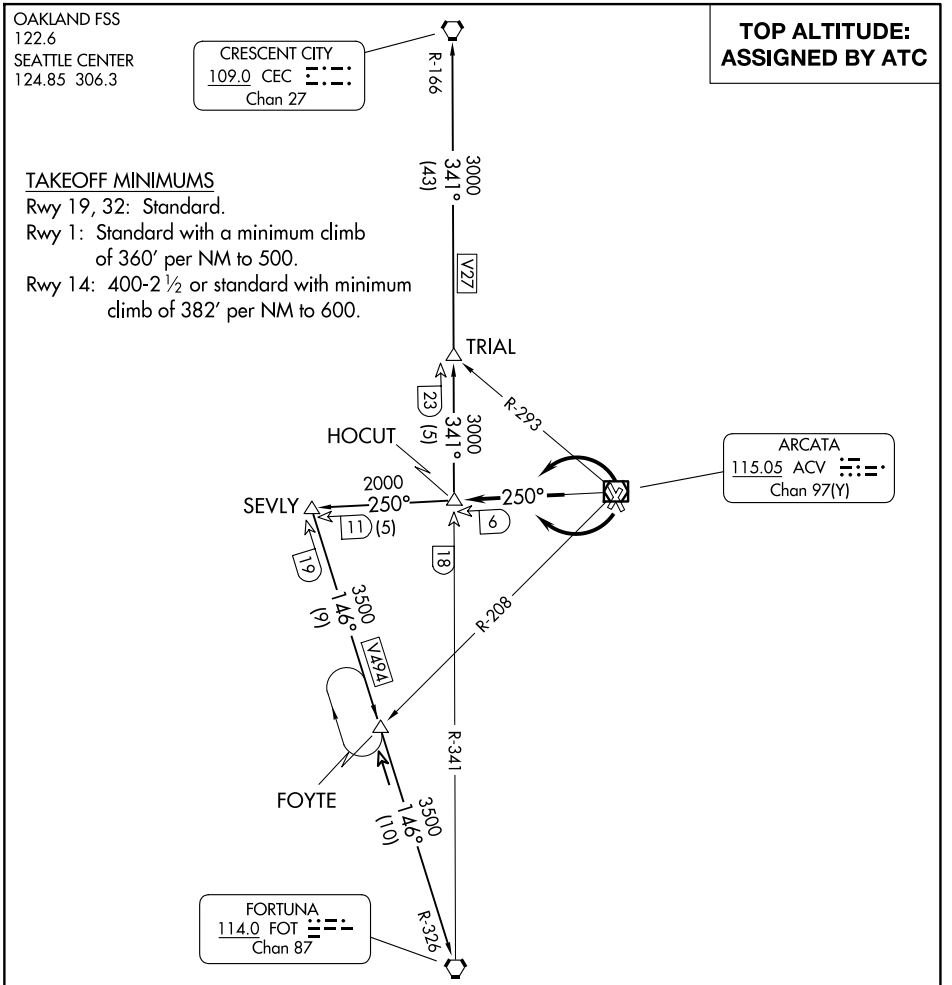


SW-2, 09 JUL 2026 to 03 SEP 2026

(HOCUT5.HOCUT) 23334

HOCUT FIVE DEPARTURE

CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY (ACV)
AL-519 (FAA)
ARCATA/EUREKA, CALIFORNIA



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1 and 32: Climbing left turn on ACV R-250, thence. . . .
TAKEOFF RUNWAYS 14 and 19: Climbing right turn on ACV R-250, thence. . . .
. . . .on (transition) or (assigned route).

CRESCENT CITY TRANSITION (HOCUT5.CEC): From over HOCUT INT on FOT R-341 and CEC R-166 to CEC VORTAC.

FORTUNA TRANSITION (HOCUT5.FOT): From over HOCUT INT on ACV R-250 to SEVLY INT, then via FOT R-326 to FOT VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC I-MER	APP CRS	Rwy Ldg	11802
109.5	306°	TDZE	181
		Apt Elev	190

ILS or LOC RWY 31
CASTLE (MER)

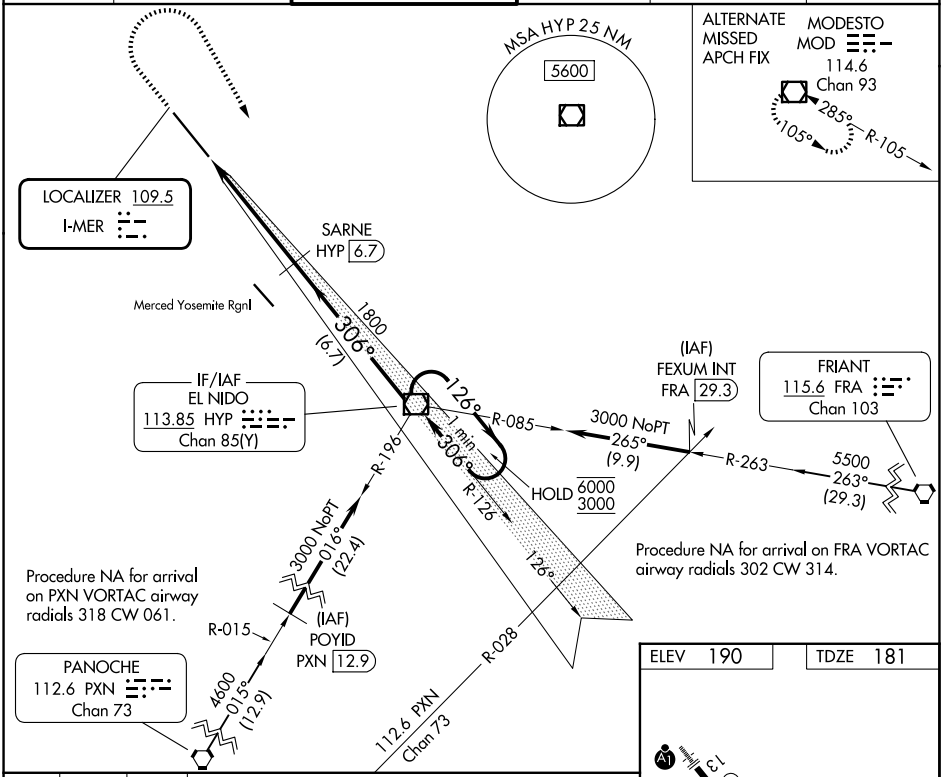
DME required for LOC only.

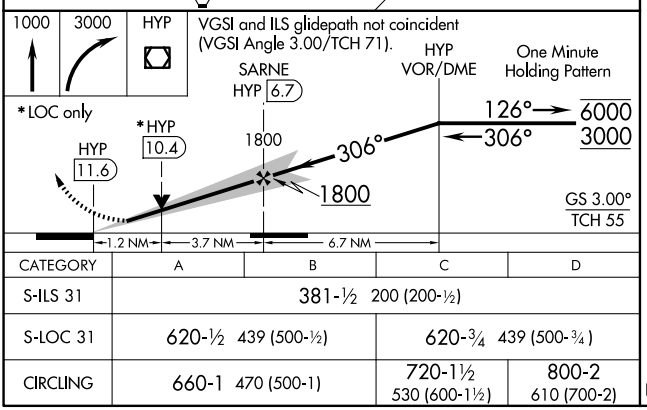
Circling NA southwest of Rwy 13-31. DME from HYP VOR/DME.
Simultaneous reception of I-MER and HYP DME required.

ALSF-1

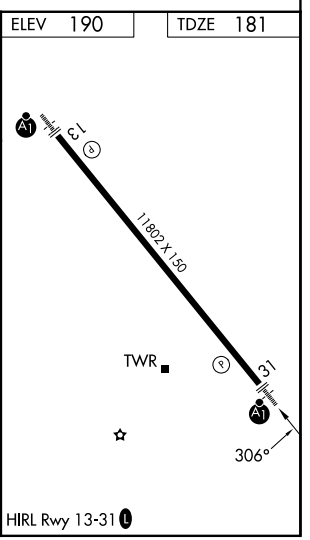
MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct HYP VOR/DME and hold.

ATIS	NORCAL APP CON	CASTLE TOWER ★	GND CON	UNICOM	
124.475	120.95 269.45	118.175 (CTAF) 235.775	133.575	122.95	123.0 L





CATEGORY	A	B	C	D
S-ILS 31	381-½ 200 (200-½)			
S-LOC 31	620-½ 439 (500-½)		620-¾ 439 (500-¾)	
CIRCLING	660-1 470 (500-1)		720-1½ 530 (600-1½)	800-2 610 (700-2)



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ATWATER, CALIFORNIA | AL-568 (FAA) | 26078

RNAV (GPS) RWY 13
CASTLE (MER)

WAAS CH 50211 W13A	APP CRS 126°	Rwy Ldg 11802 / TDZE 190 / Apt Elev 190

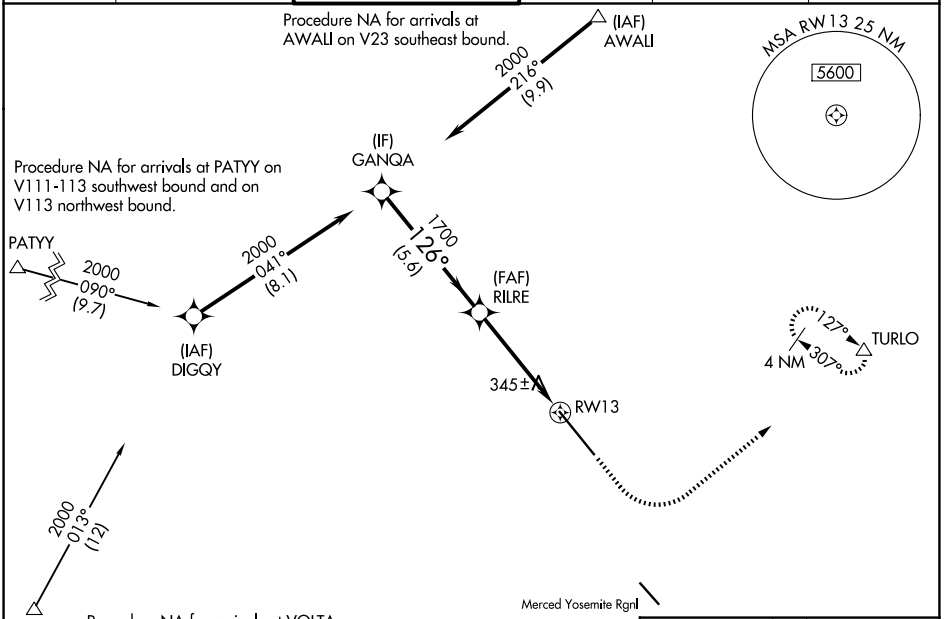
RNP APCH.

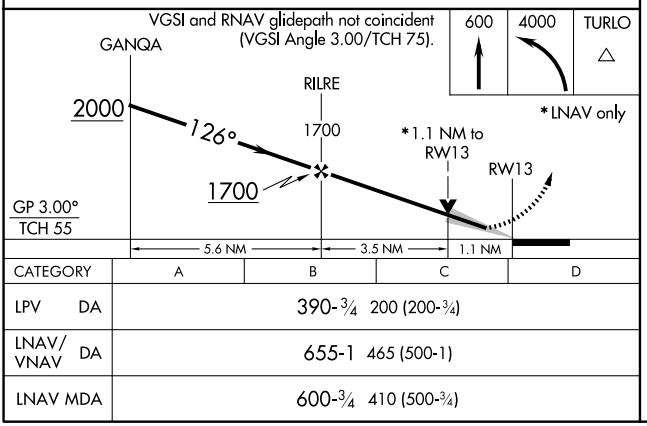
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inoperative ALS, increase LNAV/VNAV all Cats visibility to 1⅜ SM, increase LNAV Cats A/B visibility to 1 SM, and increase LNAV Cat C/D visibility to 1⅛ SM.

ALSF-1

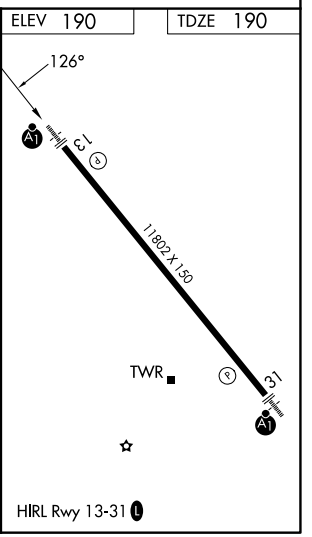
MISSED APPROACH: Climb to 600 then climbing left turn to 4000 direct TURLO and hold, continue climb-in-hold to 4000.

ATIS	NORCAL APP CON	CASTLE TOWER ★	GND CON	UNICOM	
124.475	120.95 269.45	118.175 (CTAF) 235.775	133.575	122.95	123.0 L





CATEGORY	A	B	C	D
LPV DA	390-¾ 200 (200-¾)			
LNAV/VNAV DA	655-1 465 (500-1)			
LNAV MDA	600-¾ 410 (500-¾)			



ATWATER, CALIFORNIA
Amdt 1A 30JAN20

37°23′N-120°34′W

CASTLE (MER)
RNAV (GPS) RWY 13

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 87110 W31A	APP CRS 306°	Rwy Ldg 11802 TDZE 181 Apt Elev 190

RNAV (GPS) RWY 31
CASTLE (MER)

RNP APCH.

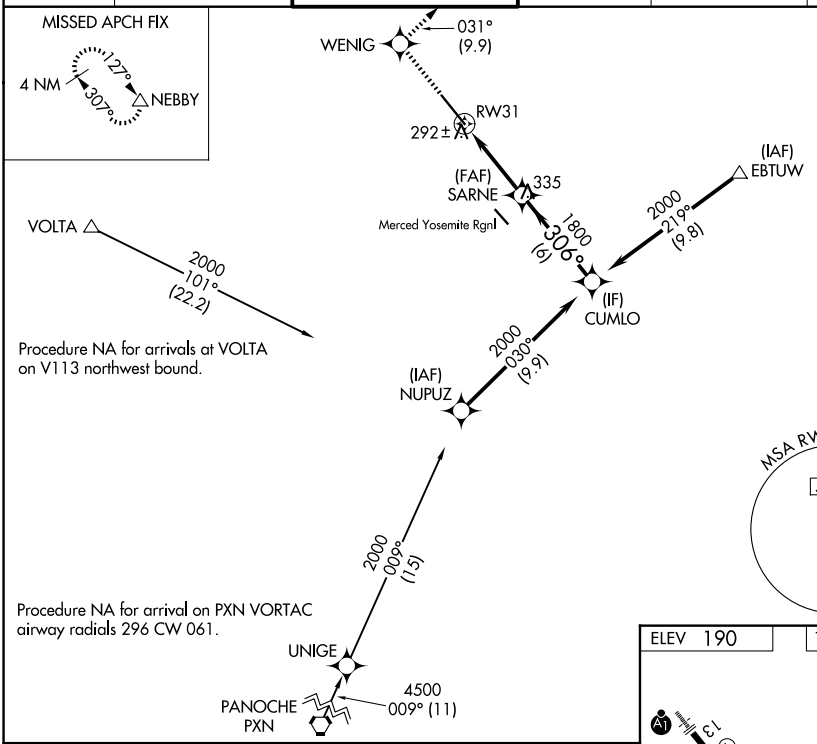
T Circling NA southwest of Rwy 13-31. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inoperative ALS, increase LNAV/VNAV all Cats visibility to ⅞ SM and LNAV Cats C/D visibility to 1 SM.

ALSF-1

MISSED APPROACH: Climb to 4000 direct WENIG and on track 031° to NEBBY and hold, continue climb-in-hold to 4000.

ATIS	NORCAL APP CON	CASTLE TOWER ★	GND CON	UNICOM	
124.475	120.95 269.45	118.175 (CTAF) 235.775	133.575	122.95	123.0 L

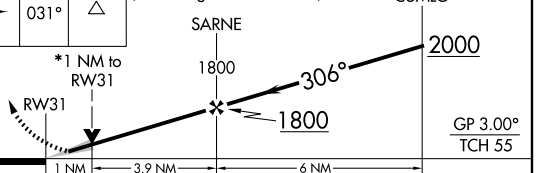
MISSED APCH FIX
4 NM 127° 307° NEBBY



4000 | WENIG | tr 031° | NEBBY

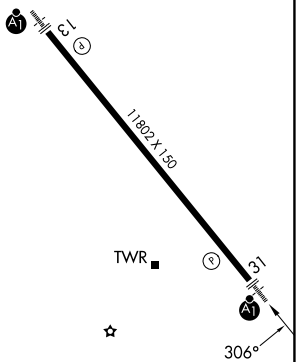
*LNAV only *1 NM to RW31

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
LPV DA	381-½ 200 (200-½)			
LNAV/VNAV DA	498-½ 317 (400-½)			
LNAV MDA	560-½ 379 (400-½)		560-⅝ 379 (400-⅝)	
CIRCLING	660-1 470 (500-1)		720-1½ 530 (600-1½)	800-2 610 (700-2)

ELEV 190 TDZE 181



HIRL Rwy 13-31 L

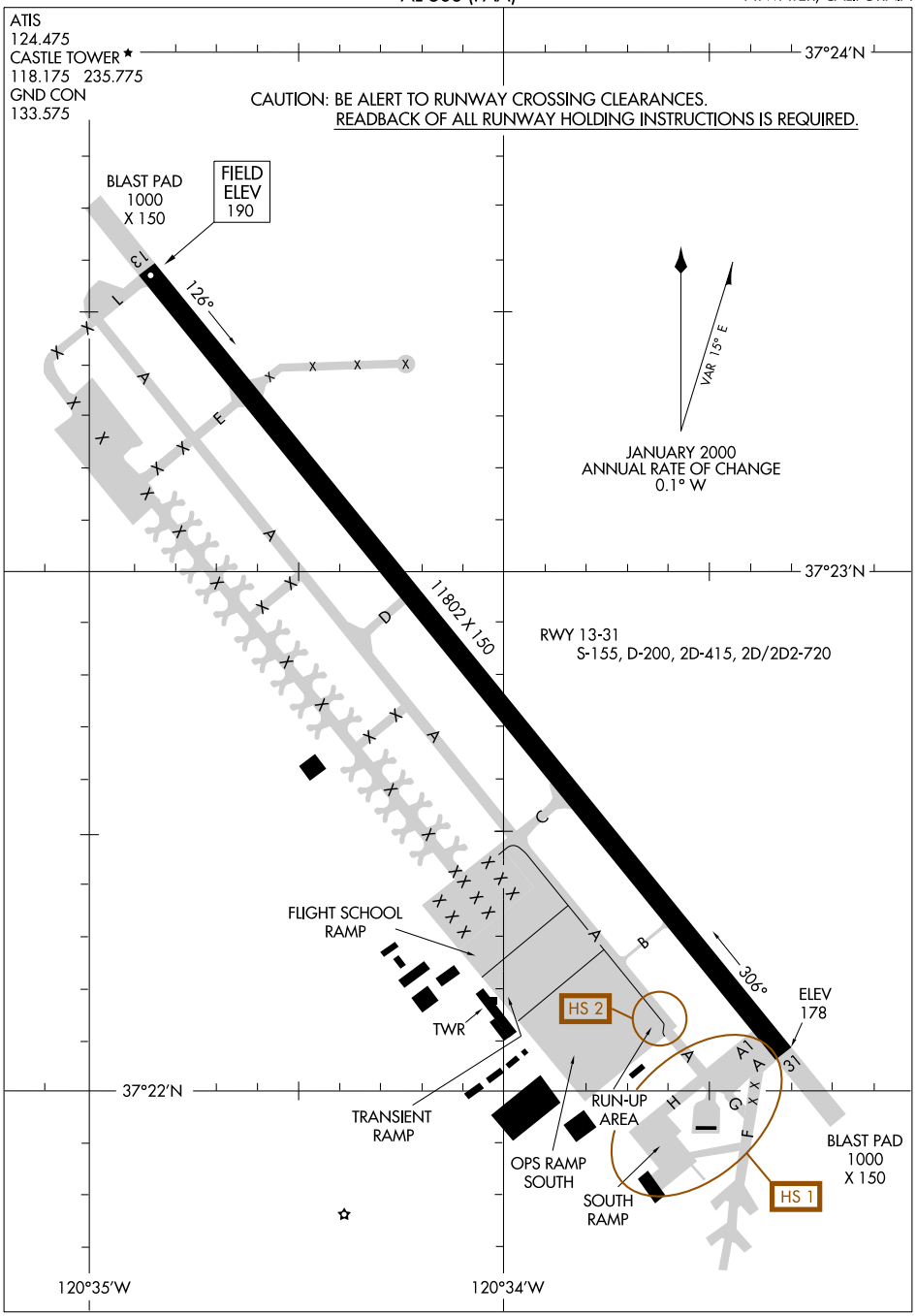
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26190

AIRPORT DIAGRAM

AL-568 (FAA)

CASTLE (MER)
ATWATER, CALIFORNIA



AIRPORT DIAGRAM
26190

ATWATER, CALIFORNIA
CASTLE (MER)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	3500
CH 90515	068°	TDZE	1532
W07A		Apt Elev	1538

RNAV (GPS) RWY 7

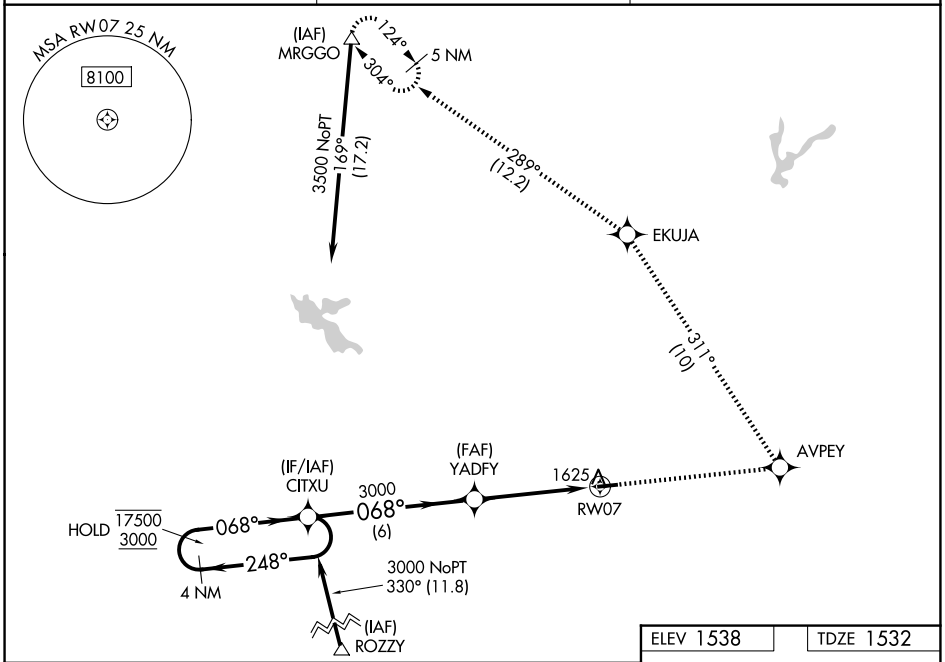
AUBURN MUNI (AUN)

RNP APCH - GPS.

Circling Rwy 25 NA at night. Rwy 7 helicopter visibility reduction below 1 SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C or above 54°C.

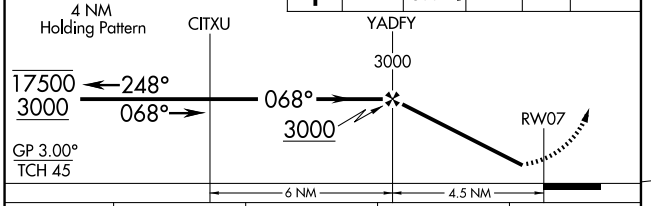
MISSED APPROACH: Climb to 5000 direct AVPEY and left turn on track 311° to EKUJA and on track 289° to MRGGO and hold.

AWOS-3	NORCAL APP CON	UNICOM
119.375	125.4 317.5	122.7 (CTAF) L

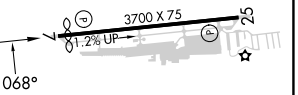


VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 21).

5000	AVPEY	tr 311°	EKUJA	tr 289°	MRGGO



ELEV 1538 TDZE 1532



MIRL Rwy 7-25 L

CATEGORY	A	B	C	D
LPV DA	1848-1¼ 316 (400-1¼)		NA	
LNAV/VNAV DA	1968-1¾ 436 (500-1¾)		NA	
LNAV MDA	2100-1 568 (600-1)		NA	
CIRCLING	2200-1 682 (700-1)	2400-1¼ 862 (900-1¼)	NA	

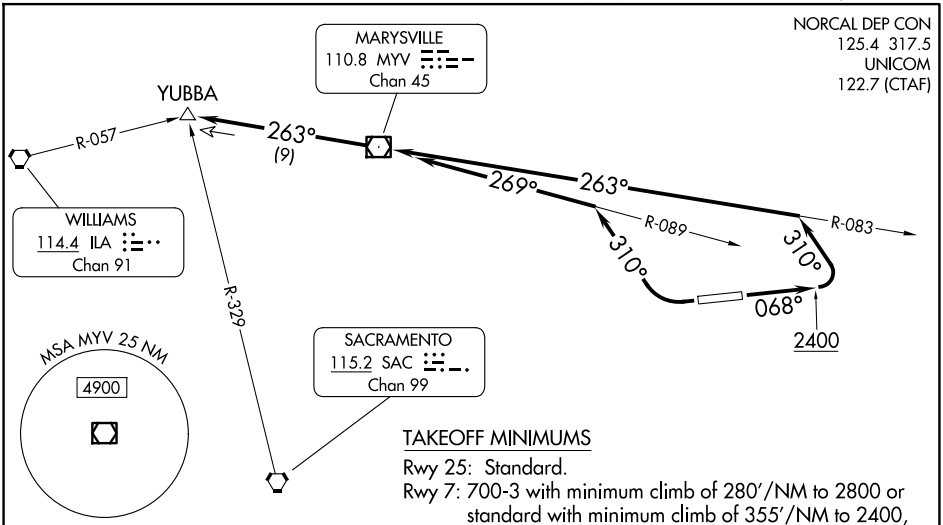
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(YUBBA1.YUBBA) 24025

YUBBA ONE DEPARTURE (OBSTACLE)

AL-9143 (FAA)

AUBURN MUNI (AUN)
AUBURN, CALIFORNIA



TAKEOFF MINIMUMS

Rwy 25: Standard.
Rwy 7: 700-3 with minimum climb of 280'/NM to 2800 or standard with minimum climb of 355'/NM to 2400, or 1100-3 for climb in visual conditions.

TAKEOFF OBSTACLE NOTES

Rwy 7: Tree 98' from DER, 447' left of centerline, 1541' MSL. Building, tree beginning 99' from DER, 234' right of centerline, up to 24' AGL/1553' MSL. Tree 959' from DER, 241' right of centerline,1578' MSL. Tree 992' from DER, 431' right of centerline, 1602' MSL. Trees beginning 1035' from DER, 139' right of centerline, up to 1614' MSL. Trees beginning 1103' from DER, 244' right of centerline, up to 1587' MSL. Trees beginning 1266' from DER, 263' right of centerline, up to 1676' MSL. Pole, electrical system, trees beginning 1366' from DER, 253' right of centerline, up to 60' AGL/1679' MSL. Trees beginning 1514' from DER, 56' right of centerline, up to 1681' MSL. Tree 5369' from DER, 1805' left of centerline, 1684' MSL. Trees beginning 5546' from DER, 1593' left of centerline, up to 1735' MSL. Trees beginning 1 NM from DER, 1140' left of centerline, up to 1779' MSL. Trees beginning 1.1 NM from DER, 1983' right of centerline, up to 1726' MSL. Tree, pole beginning 1.3 NM from DER, 1113 ' right of centerline, up to 1773' MSL. Trees beginning 1.4 NM from DER, 918' left of centerline, up to 1796' MSL. Trees, transmission line, tank, building beginning 1.5 NM from DER, 372' left of centerline, up to 1801' MSL. Trees beginning 1.6 NM from DER, 535' left of centerline, up to 1915' MSL. Tree, traverse way beginning 1.7 NM from DER, 1523' left of centerline, up to 1859' MSL. Electrical system, trees beginning 2.1 NM from DER, 2928' left of centerline, up to 62' AGL/2059' MSL. Tree 2.2 NM from DER, 3991' left of centerline, 2151' MSL. Trees beginning 2.3 NM from DER, 3015' left of centerline, up to 2105' MSL. Tree 2.4 NM from DER, 4231' left of centerline, 1986' MSL.

Rwy 25: Rising terrain 26' from DER, 286' right of centerline, 1496' MSL. Trees beginning 31' from DER, 477' left of centerline, up to 1532' MSL. Tree, rising terrain, fences, vertical structure, building beginning 89' from DER, 199' right of centerline, up to 1529' MSL. Trees beginning 774' from DER, 419' right of centerline, up to 1538' MSL. Tree 1023' from DER, 652' right of centerline, 1539' MSL. Trees beginning 1678' from DER, 207' right of centerline, up to 1547' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb on heading 068° to 2400, then climbing left turn heading 310° to intercept MYV VOR/DME R-083 to MYV VOR/DME and on MYV VOR/DME R-263 to YUBBA INT before proceeding on course.

TAKEOFF RUNWAY 25: Climbing right turn on heading 310° to intercept MYV VOR/DME R-089 to MYV VOR/DME and on MYV VOR/DME R-263 to YUBBA INT before proceeding on course.

VCOA RUNWAY 7: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Auburn Muni Airport at or above 2500 on heading 275° to intercept MYV VOR/DME R-094 to MYV VOR/DME and on MYV VOR/DME R-263 to YUBBA INT before proceeding on course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MARYSVILLE, CALIFORNIA

ILS or LOC Y RWY 15

LOC I-BAB	APCH CRS	Rwy ldg 12,001 TDZE 113 Arpt Elev 113
109.5	145°	

[USAF]

BEALE AFB (KBAB)

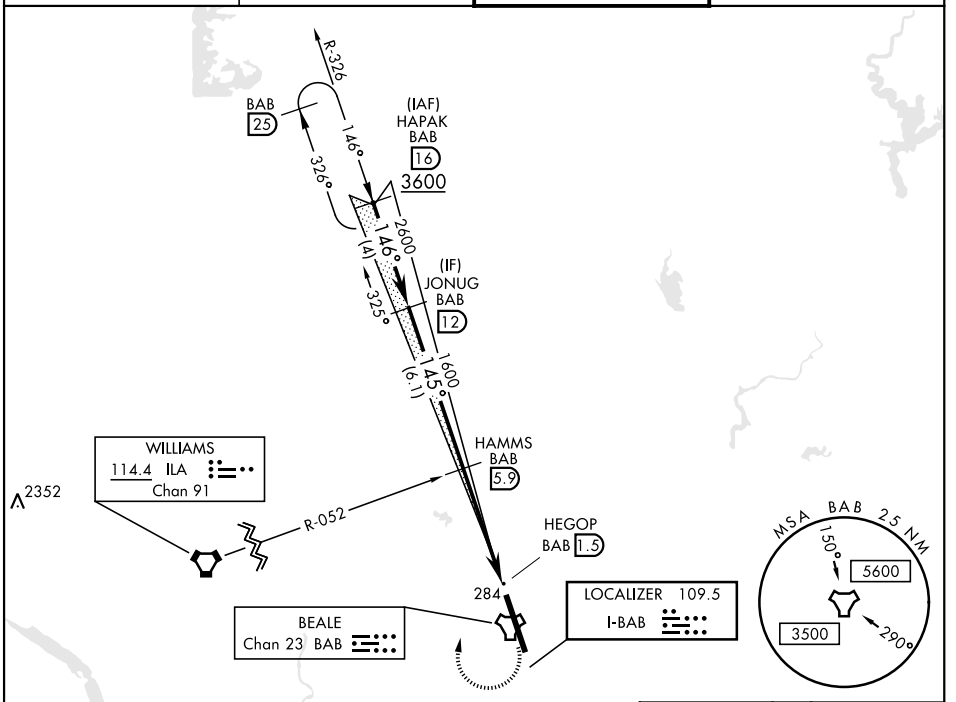
RADAR or DME required

▼ * When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1⅜ miles.
*** Circling not authorized E of Rwy 15-33.

ALSF-1

MISSED APPROACH: Climb to 700 on hdg 145°, then climbing right turn to 4400 hdg 011° to intercept BAB R-326 to HAPAK and hold, continue climb-in-hold to 4400.

ATIS ★	NORCAL APP CON	TOWER ★	GND CON
124.55 273.5	125.4 259.1	119.4 284.75	121.6 257.75



CATEGORY	A	B	C	D	E
S-ILS 15*	313/24		200 (200-½)		
S-LOC 15**	600/24 487 (500-½)		600/50 487 (500-1)		
CIRCLING***	600-1 487 (500-1)		600-1½ 487(500-1½)	800-2¼ 687(700-2¼)	800-2½ 687(700-2½)

HIRL Rwy all rwys

MARYSVILLE, CALIFORNIA

39°08'N-121°26'W

BEALE AFB (KBAB)

Amdt 6 25JAN24

ILS or LOC Y RWY 15

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

MARYSVILLE, CALIFORNIA

ILS or LOC Y RWY 33

LOC I-MIZ	APCH CRS	Rwy ldg	12,001
109.5	325°	TDZE	105
		Arpt Elev	113

(USAF)

BEALE AFB (KBAB)

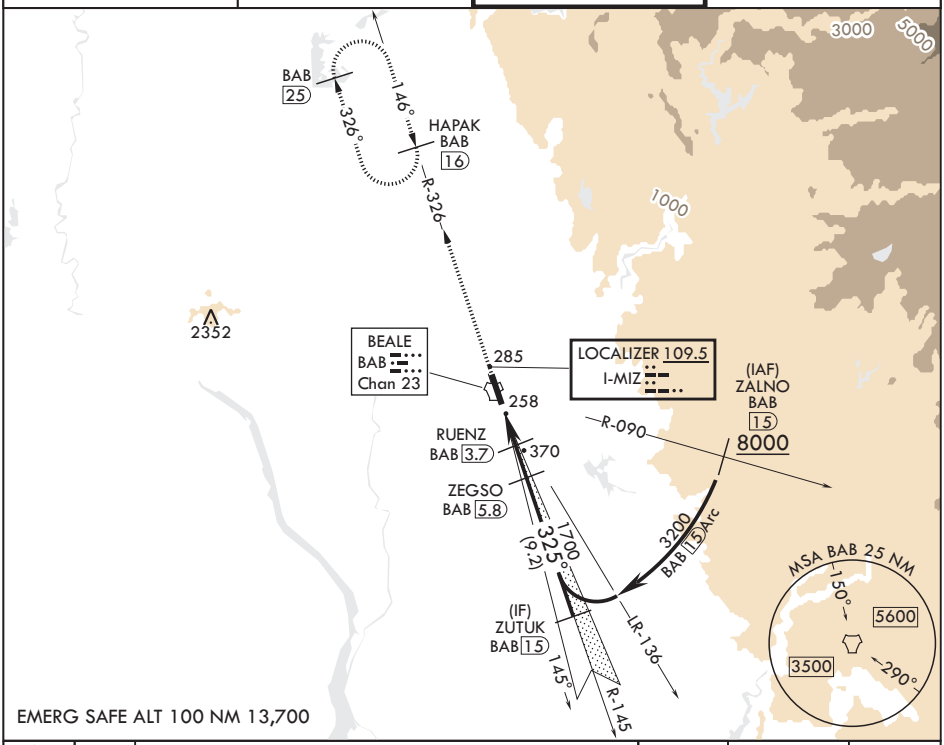
RADAR or DME required

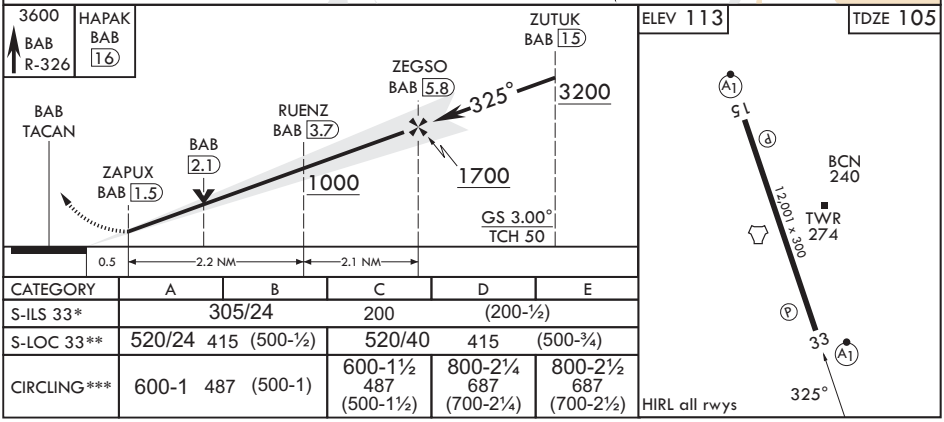
▼ * When ALS inop, increase RVR to 40 and vis to 3/4 mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile; CAT CDE RVR to 60 and vis to 1 1/8 miles.
*** Circling not authorized E of Rwy 15-33.

ALSF-1 (A1)

MISSED APPROACH: Climb to 3600 intercept BAB TACAN R-326 to HAPAK and hold.

ATIS★	NORCAL APP CON	TOWER★	GND CON
124.55 273.5	125.4 259.1	119.4 284.75	121.6 257.75





CATEGORY	A	B	C	D	E
S-ILS 33*	305/24		200	(200-½)	
S-LOC 33**	520/24	415 (500-½)	520/40	415	(500-¾)
CIRCLING***	600-1	487 (500-1)	600-1½ 487 (500-1½)	800-2¼ 687 (700-2¼)	800-2½ 687 (700-2½)

MARYSVILLE, CALIFORNIA

39°08'N - 121°26'W

BEALE AFB (KBAB)

Amdt 6 22FEB24

ILS or LOC Y RWY 33

SW-2, 09 JUL 2026 to 03 SEP 2026

MARYSVILLE, CALIFORNIA

RNAV (GPS) RWY 15

APCH CRS	Rwy ldg	12,001
145°	THRE	113
	Arpt Elev	113

(USAF)

BEALE AFB (KBAB)

RNP APCH

* When ALS inop, increase RVR to 60, vis to 1 1/8 miles.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile; CAT CDE vis to 1 3/8 miles.
*** Circling not authorized NE of Rwy 15-33.

ALSF-1

MISSED APPROACH: Climb to 3600 direct RADRE, track 145° to ZUTUK, track 105° to RAGTE and hold, continue climb-in-hold to 3600.

ATIS★	NORCAL APP CON	TOWER★	GND CON
124.55 273.5	125.4 259.1	119.4 284.75	121.6 257.75

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C or above 54°C.

9 NM
145°
325°
(IAF)
GGASR
3600
2600
145°
(4.9)
(IF/IAF)
PELAE
1700
(5.9)
(FAF)
PEDCE
255
RW15
370
RADRE
ZUTUK
9 NM
285°
105°
RAGTE
2057
5000
3000
1000

MSA RW15 25 NM
5600

EMERG SAFE ALT 100 NM 13,700

VGSI and RNAV glidepath not coincident (VGSI Angle 2.75/TCH 53).

3600	RADRE	tr 145°	ZUTUK

PELAE
2600
145°
PEDCE
1700
1.5 NM to RW15
RW15
GP 2.75°
TCH 47
5.3 NM

ELEV 113
THRE 113
145°
15
BCN
240
TWR
274
12,001 x 300
33

CATEGORY	A	B	C	D	E
LNAV/VNAV DA*	530/40		417	(500-¾)	
LNAV MDA**	600/24	487 (500-½)	600/50	487	(500-1)
CIRCLING***	600-1	487 (500-1)	600-1½ 487 (500-1½)	800-2¼ 687 (700-2¼)	800-2½ 687 (700-2½)

HIRL all rwys

MARYSVILLE, CALIFORNIA
Amdt 2 25JAN24

39°08'N - 121°26'W

BEALE AFB (KBAB)

RNAV (GPS) RWY 15

SW-2, 09 JUL 2026 to 03 SEP 2026

26190

MARYSVILLE, CALIFORNIA

RNAV (GPS) RWY 33

APCH CRS	Rwy ldg	12,001
325°	THRE	105
	Arpt Elev	113

(USAF)

BEALE AFB (KBAB)

RNP APCH

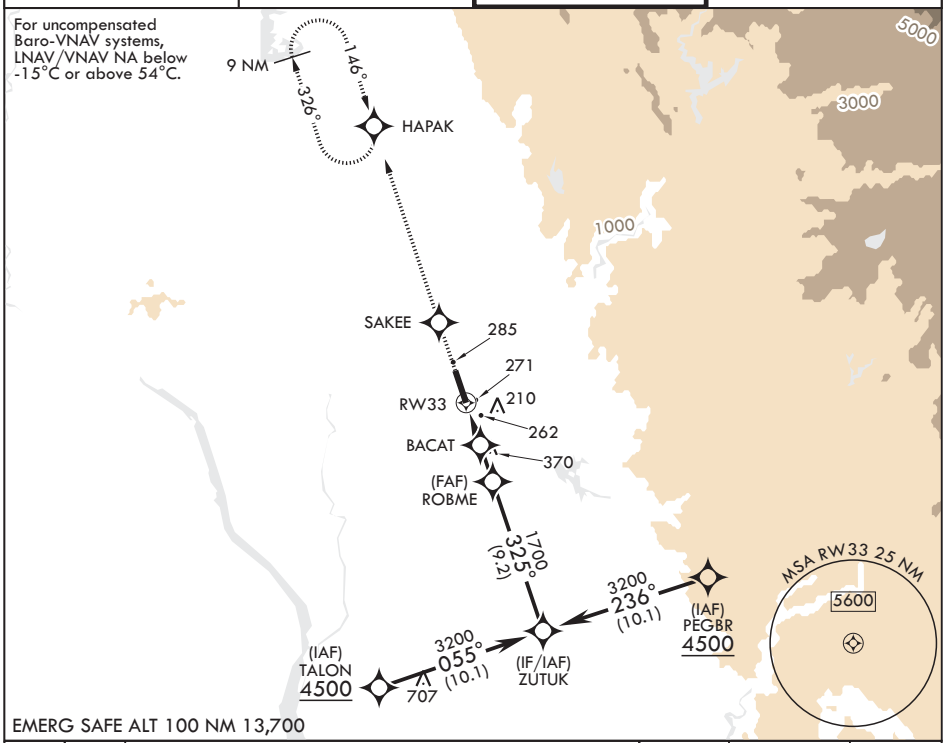
* When ALS inop, increase vis to 1 1/4 miles.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 1/4 miles.
*** Circling not authorized NE of Rwy 15-33.

ALSF-1

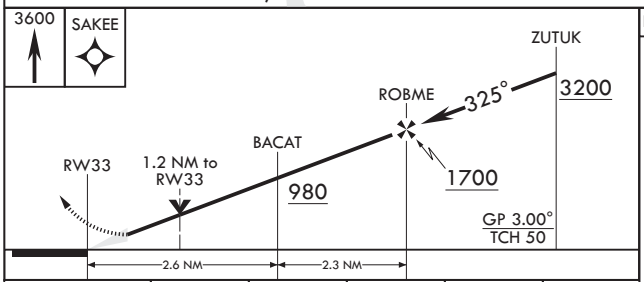
MISSED APPROACH: Climb to 3600 direct SAKEE, track 326° to HAPAK and hold.

ATIS★	NORCAL APP CON	TOWER★	GND CON
124.55 273.5	125.4 259.1	119.4 284.75	121.6 257.75

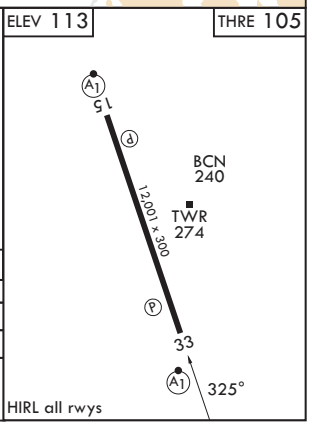
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.



EMERG SAFE ALT 100 NM 13,700



ELEV 113 THRE 105



CATEGORY	A	B	C	D	E
LNAV/VNAV DA*	540/40		435	(500-¾)	
LNAV MDA**	540/24	435 (500-½)	540/40	435	(500-¾)
CIRCLING***	600-1	487 (500-1)	600-1½ 487 (500-1½)	800-2¼ 687 (700-2¼)	800-2½ 687 (700-2½)

HIRL all rwys

MARYSVILLE, CALIFORNIA

39°08'N - 121°26'W

BEALE AFB (KBAB)

Amdt 2 22FEB24

RNAV (GPS) RWY 33

SW-2, 09 JUL 2026 to 03 SEP 2026

MARYSVILLE, CALIFORNIA

TACAN Y RWY 15

TACAN BAB Chan 23	APCH CRS 153°	Rwy ldg 12,001 TDZE 113 Arpt Elev 113

(USAF)

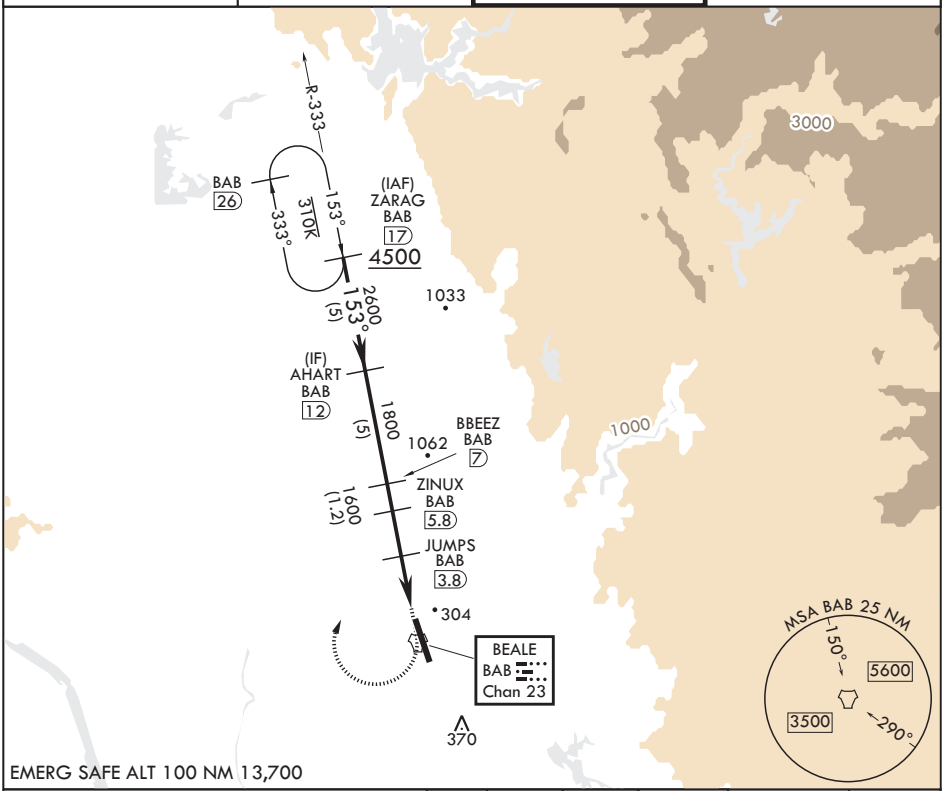
BEALE AFB (KBAB)

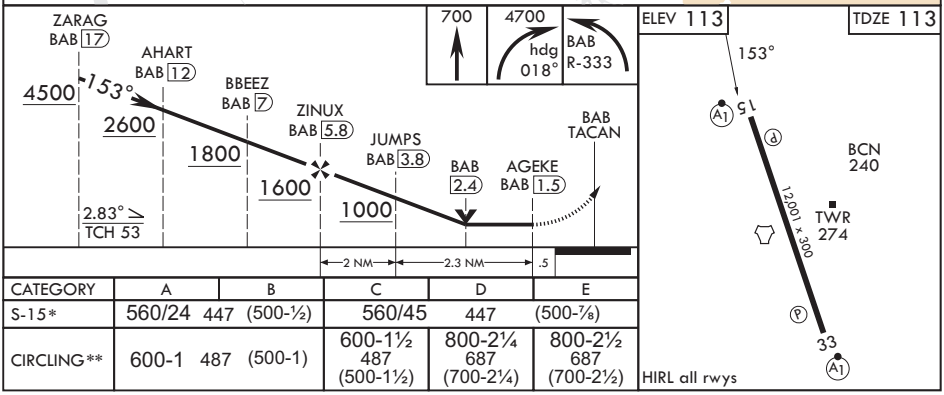
* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 3/8 miles.
** Circling not authorized E of Rwy 15-33.

ALSF-1

MISSED APPROACH: Climb to 700 on heading 153°, then climbing right turn to 4700 heading 018° to intercept BAB R-333 to ZARAG and hold, continue climb-in-hold to 4700.

ATIS★	NORCAL APP CON	TOWER★	GND CON
124.55 273.5	125.4 259.1	119.4 284.75	121.6 257.75





CATEGORY	A	B	C	D	E
S-15*	560/24 447 (500-½)		560/45 447 (500-⅞)		
CIRCLING**	600-1 487 (500-1)		600-1½ 487 (500-1½)	800-2¼ 687 (700-2¼)	800-2½ 687 (700-2½)

MARYSVILLE, CALIFORNIA

39°08'N - 121°26'W

BEALE AFB (KBAB)

Amdt 6 22FEB24

TACAN Y RWY 15

SW-2, 09 JUL 2026 to 03 SEP 2026

26190

MARYSVILLE, CALIFORNIA

TACAN Y RWY 33

TACAN BAB Chan 23	APCH CRS 317°	Rwy ldg 12,001 TDZE 105 Arpt Elev 113

(USAF)

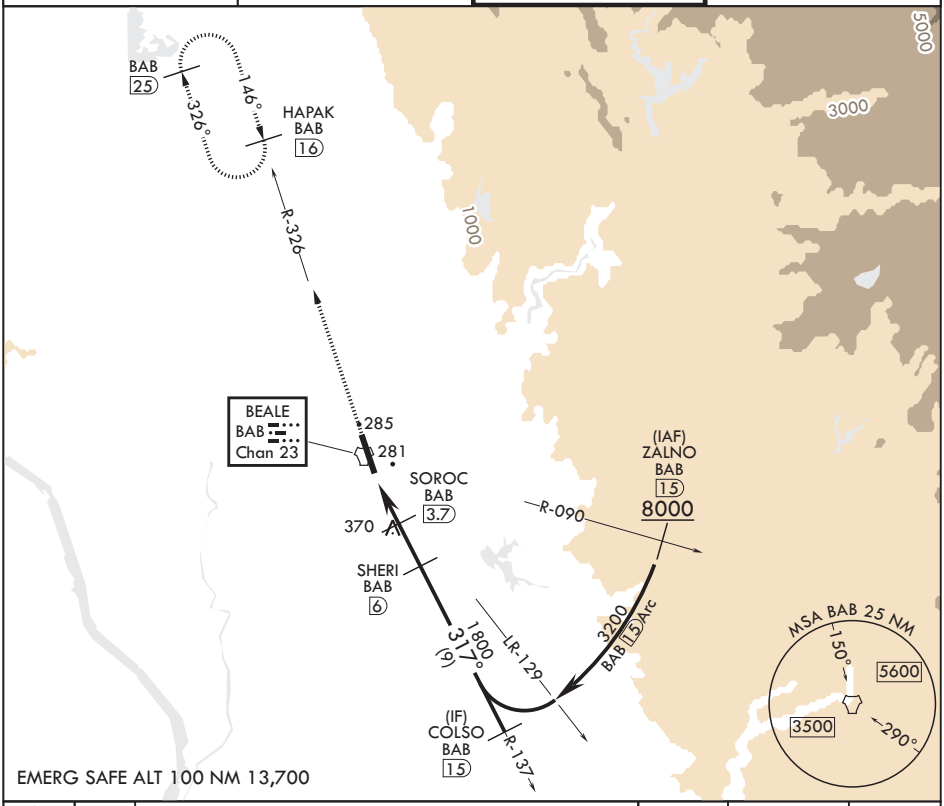
BEALE AFB (KBAB)

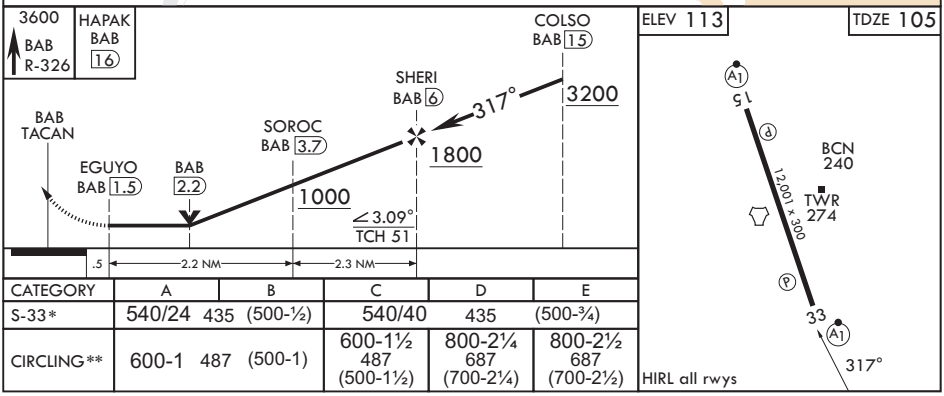
* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 1/4 miles.
** Circling not authorized E of Rwy 15-33.

ALSF-1

MISSED APPROACH: Climb to 3600 intercept BAB TACAN R-326 to HAPAK and hold.

ATIS★	NORCAL APP CON	TOWER★	GND CON
124.55 273.5	125.4 259.1	119.4 284.75	121.6 257.75





CATEGORY	A	B	C	D	E
S-33*	540/24 435 (500-½)		540/40	435	(500-¾)
CIRCLING**	600-1 487 (500-1)		600-1½ 487 (500-1½)	800-2¼ 687 (700-2¼)	800-2½ 687 (700-2½)

MARYSVILLE, CALIFORNIA

39°08'N - 121°26'W

BEALE AFB (KBAB)

Amdt 6 25JAN24

TACAN Y RWY 33

SW-2, 09 JUL 2026 to 03 SEP 2026

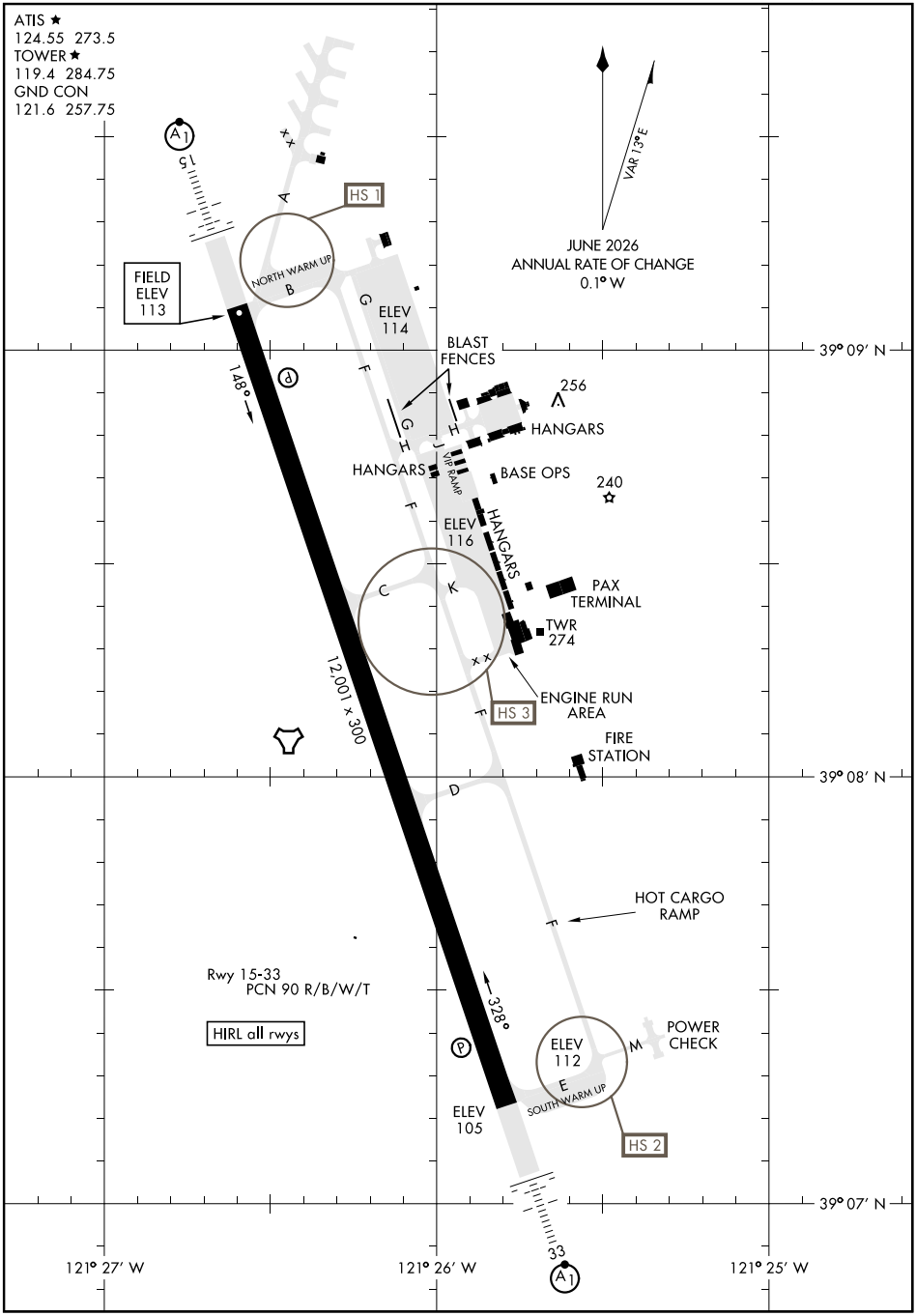
SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM

BEALE AFB (KBAB)

[USAF]

MARYSVILLE, CALIFORNIA



AIRPORT DIAGRAM

MARYSVILLE, CALIFORNIA

BEALE AFB (KBAB)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

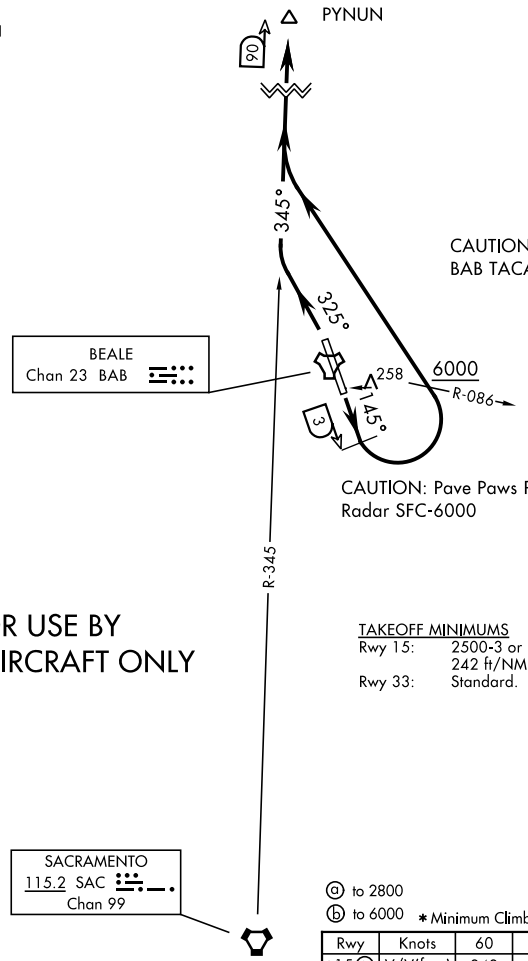
PYNUN-SEVEN DEPARTURE (PYNUN7.PYNUN)

SW-2, 09 JUL 2026 to 03 SEP 2026

ATIS ★
124.55 273.5
GND CON
121.6 257.75
BEALE TOWER ★
119.4 284.75
NORCAL DEP CON
125.4 259.1

[USAF]

6768



TAKEOFF MINIMUMS
Rwy 15: 2500-3 or standard with a minimum climb of 242 ft/NM to 2800.
Rwy 33: Standard.

ⓐ to 2800
ⓑ to 6000 ∗ Minimum Climb Rate † ATC Climb Rate

Rwy	Knots	60	120	180	240	300	360
∗15ⓐ	V/V(fpm)	242	484	726	968	1210	1452
†15ⓑ	V/V(fpm)	590	1180	1770	2360	2950	3540

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Fly heading 145° until BAB TACAN 3 DME, turn left heading 300° to intercept SAC VORTAC R-345 to PYNUN. Cross BAB R-086 at or above 6000. Then via assigned route.

TAKEOFF RWY 33: Fly heading 325° intercept SAC VORTAC R-345 to PYNUN. Then via assigned route.

RNAV (GPS) Y RWY 26

NERVINO (Ø02)

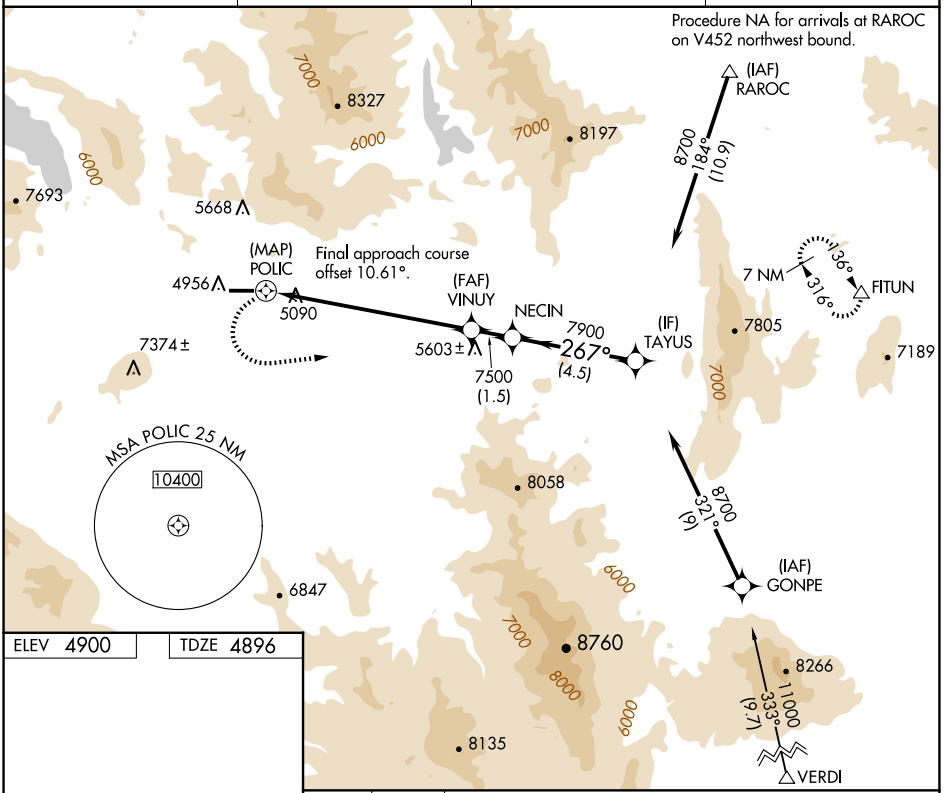
APP CRS	Rwy Idg	4651
267°	TDZE	4896
	Apt Elev	4900

NA
-13°C

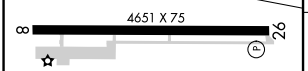
Procedure NA at night. Use Reno/Stead altimeter setting; when not received, use Reno/Tahoe Intl altimeter setting and increase all MDA 180 feet. DME/DME RNP- 0.3 NA. 8, 26 Rwy helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 10000 direct FITUN and hold.

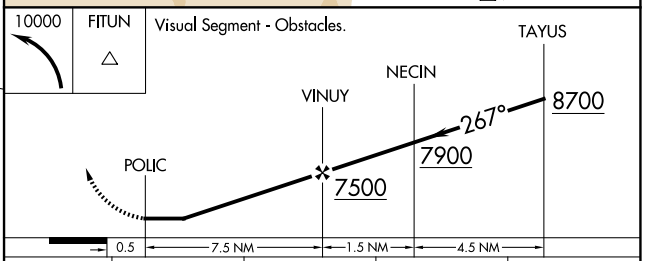
AWOS-2	RTS AWOS-3	NORCAL APP CON	UNICOM
119.35	135.175	126.3 353.9	122.8 (CTAF) L



ELEV 4900 TDZE 4896



MIRL Rwy 8-26 L



CATEGORY	A	B	C	D
LNAV MDA	7300-1¼ 2404 (2400-1¼)	7300-1½ 2404 (2400-1½)	7300-3 2404 (2400-3)	
CIRCLING	7300-1¼ 2400 (2400-1¼)	7300-1½ 2400 (2400-1½)	7300-3 2400 (2400-3)	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

BECKWOURTH, CALIFORNIA AL-10032 (FAA) 24361

WAAS	APP CRS	Rwy Idg	4651
CH 49203	256°	TDZE	4896
W26A		Apt Elev	4900

RNAV (GPS) Z RWY 26

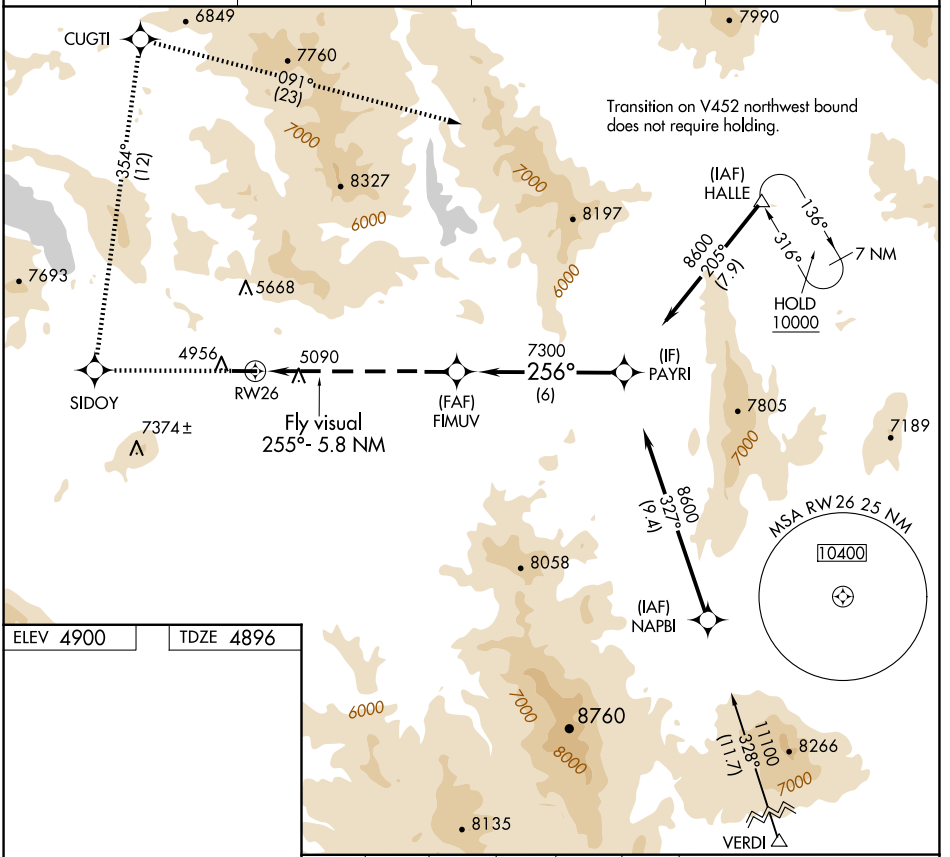
NERVINO (OØ2)

T
NA
-13°C

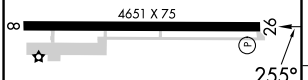
Use Reno/Stead altimeter setting; when not received, use Reno/Tahoe Intl altimeter setting and increase DA 180 feet.
DME/DME RNP -0.3 NA.
Helicopter visibility reduction below ¾ SM not authorized.

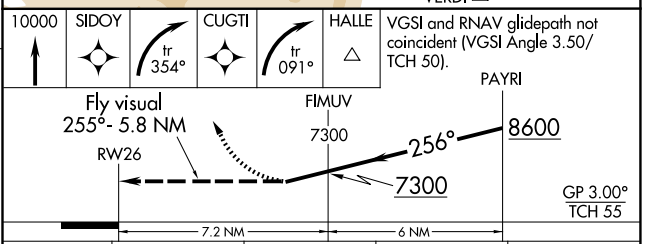
MISSED APPROACH: Climb to 10000 direct SIDOY and right turn on track 354° to CUGTI and right turn on track 091° to HALLE and hold.

AWOS-2	RTS AWOS-3	NORCAL APP CON	UNICOM
119.35	135.175	126.3 353.9	122.8 (CTAF) L



ELEV 4900 TDZE 4896





CATEGORY	A	B	C	D
LPV DA	6787-2 1891 (1900-2)		6787-3 1891 (1900-3)	

MIRL Rwy 8-26 L

BECKWOURTH, CALIFORNIA
Orig-B 24JUL14

39°49'N-120°21'W

NERVINO (OØ2)

RNAV (GPS) Z RWY 26

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (RNP) RWY 30

BISHOP (BIH)

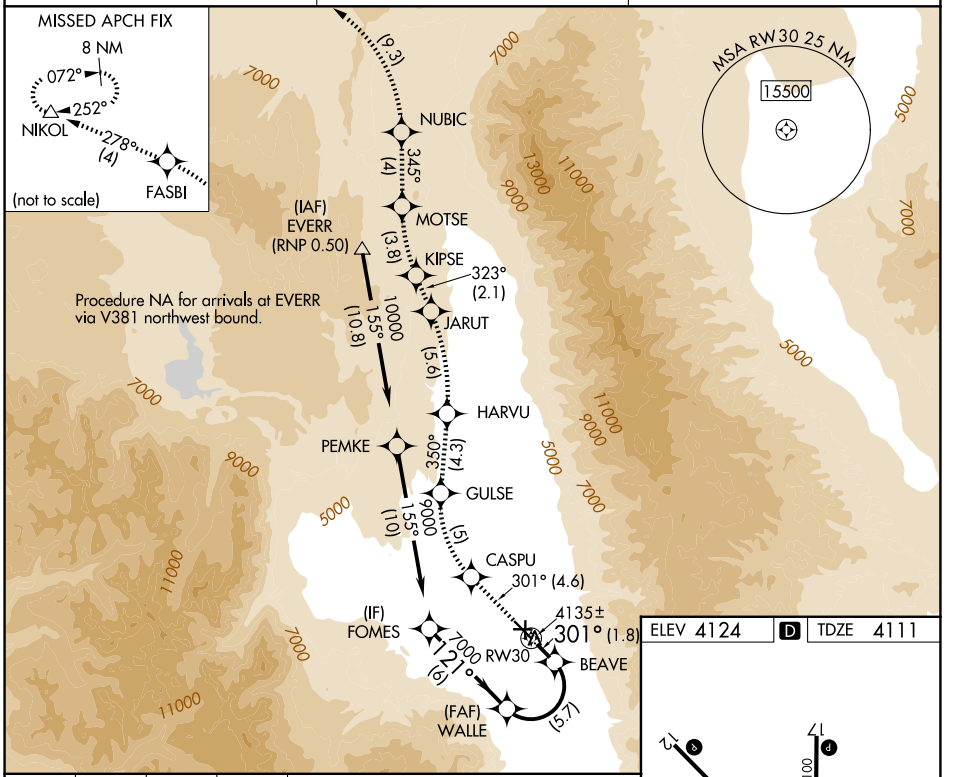
APP CRS	Rwy Ldg	6743
301°	TDZE	4111
	Apt Elev	4124

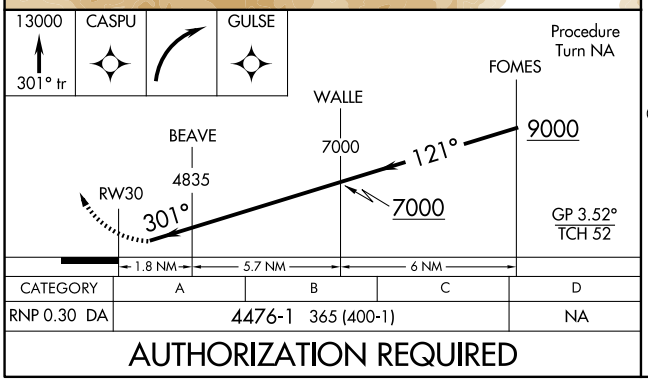
RNP AR APCH, RF required.

NA For uncompensated Baro-VNAV systems, procedure NA below -12°C or above 54°C.

MISSED APPROACH: Climb to 13000 via 301° track to CASPU, right turn to GULSE, 350° track to HARVU, left turn to JARUT, 323° track to KIPSE, right turn to MOTSE, 345° track to NUBIC, left turn to FASBI, 278° track to NIKOL and hold.

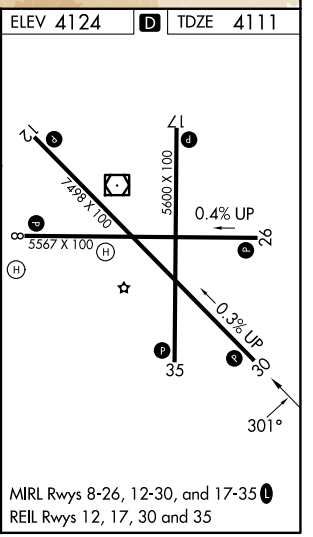
ASOS	OAKLAND CENTER	UNICOM
119.025	125.75 284.65	123.0 (CTAF) L





CATEGORY	A	B	C	D
RNP 0.30 DA	4476-1	365 (400-1)		NA

AUTHORIZATION REQUIRED



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

BISHOP, CALIFORNIA | AL-5737 (FAA) | 26078

APP CRS	Rwy Ldg	7098
120°	TDZE	4123
	Apt Elev	4124

RNAV (GPS) Y RWY 12

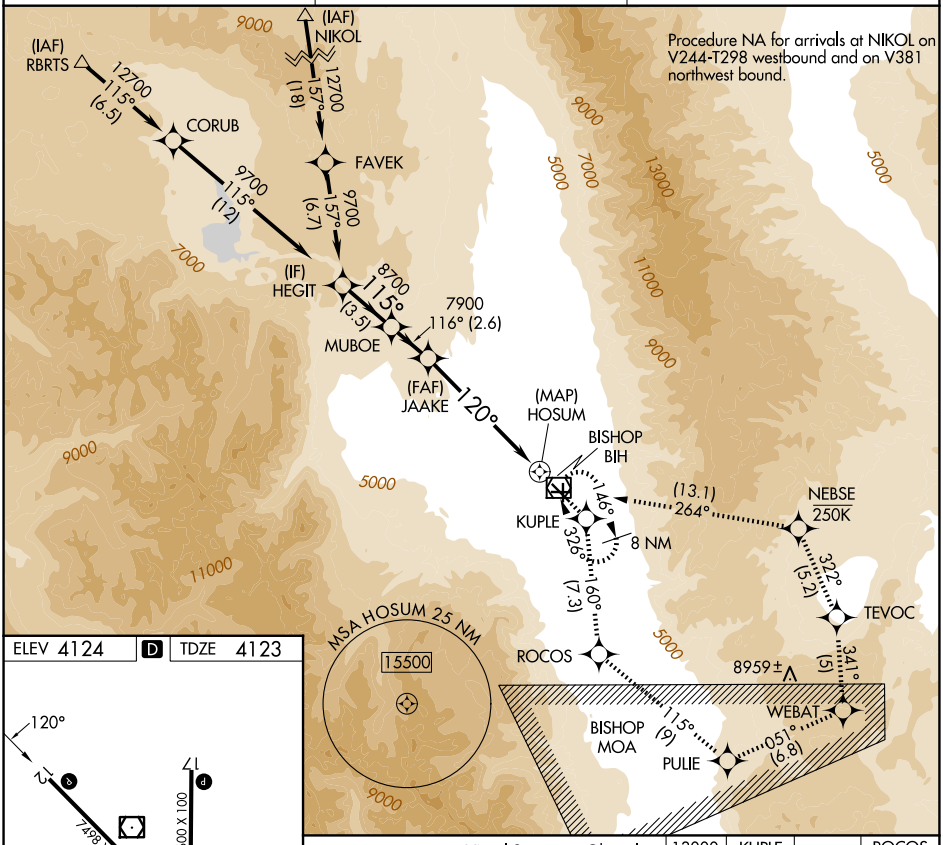
BISHOP (BIH)

RNP APCH-GPS.

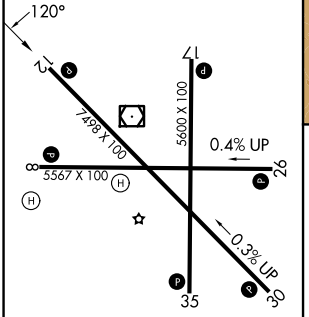
Rwy 12, helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: (Do not exceed 250 KIAS until NEBSE) Climb to 13000 direct KUPLE and on track 160° to ROCOS and on track 115° to PULIE and on track 051° to WEBAT and on track 341° to TEVOC and on track 322° to NEBSE and on track 264° to BIH VOR/DME and hold.

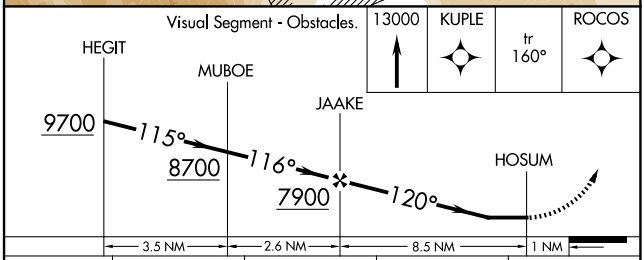
ASOS	OAKLAND CENTER	UNICOM
119.025	125.75 284.65	123.0 (CTAF) L



ELEV 4124 D TDZ 4123



MIRL Rwys 8-26, 12-30, and 17-35 L
REIL Rwys 12, 17, 30 and 35



CATEGORY	A	B	C	D
LNAV MDA	6600-1¼ 2477 (2500-1¼)	6600-1½ 2477 (2500-1½)	6600-3 2477 (2500-3)	NA

BISHOP, CALIFORNIA
Orig-F 08SEP22

37°22'N-118°22'W

BISHOP (BIH)

RNAV (GPS) Y RWY 12

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS		
120°	Rwy Ldg	7098
	TDZE	4123
	Apt Elev	4124

RNAV (GPS) Z RWY 12

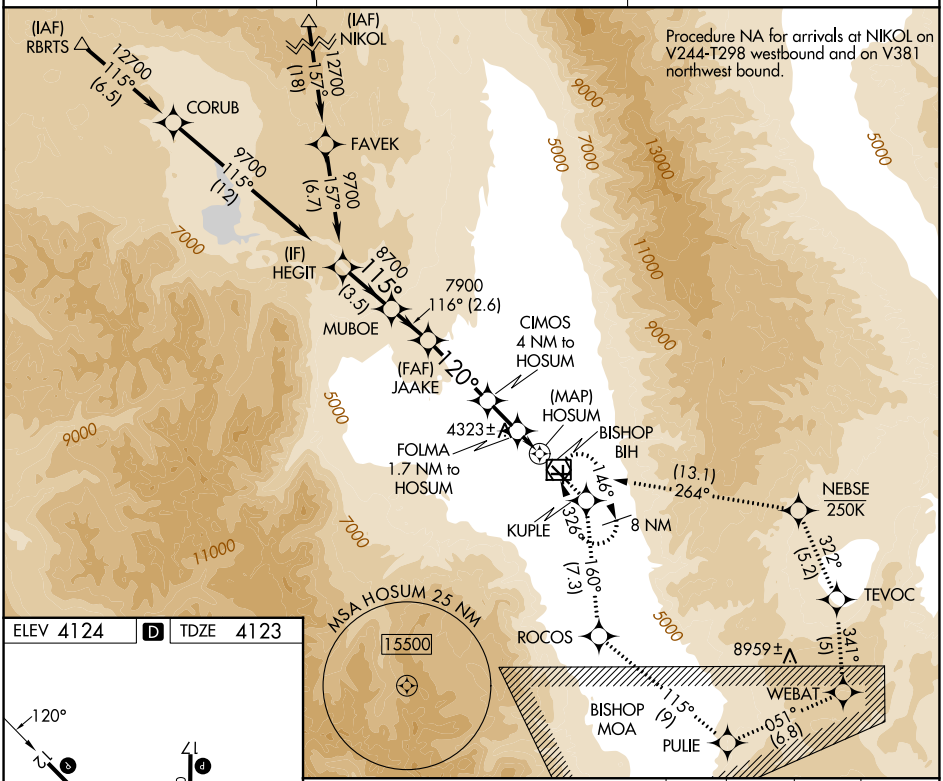
BISHOP (BIH)

RNP APCH-GPS.

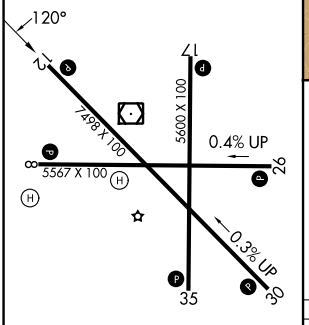
T A Rwy 12, helicopter visibility reduction below ¾ SM NA. Missed approach requires minimum climb of 325 feet per NM to 11000; if unable, see RNAV (GPS) Y RWY 12.

MISSED APPROACH: (Do not exceed 250 KIAS until NEBSE) Climb to 13000 direct KUPLE and on track 160° to ROCOS and on track 115° to PULIE and on track 051° to WEBAT and on track 341° to TEVOC and on track 322° to NEBSE and on track 264° to BIH VOR/DME and hold.

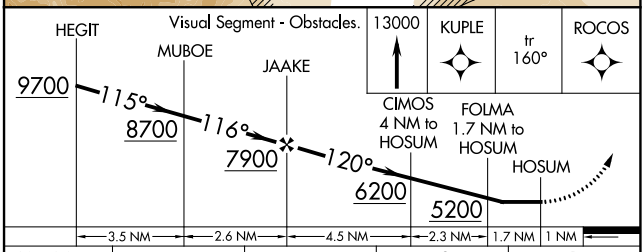
ASOS	OAKLAND CENTER	UNICOM
119.025	125.75 284.65	123.0 (CTAF) L



ELEV 4124 D TDZ 4123



MIRL Rwys 8-26, 12-30, and 17-35 L
REIL Rwys 12, 17, 30 and 35



CATEGORY	A	B	C	D
LNAV MDA	4580-1¼ 457 (500-1¼)		4580-1⅜ 457 (500-1⅜)	NA
CIRCLING	6420-1¼ 2296 (2300-1¼)	6420-1½ 2296 (2300-1½)	6420-3 2296 (2300-3)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

BISHOP, CALIFORNIA | AL-5737 (FAA) | 26078

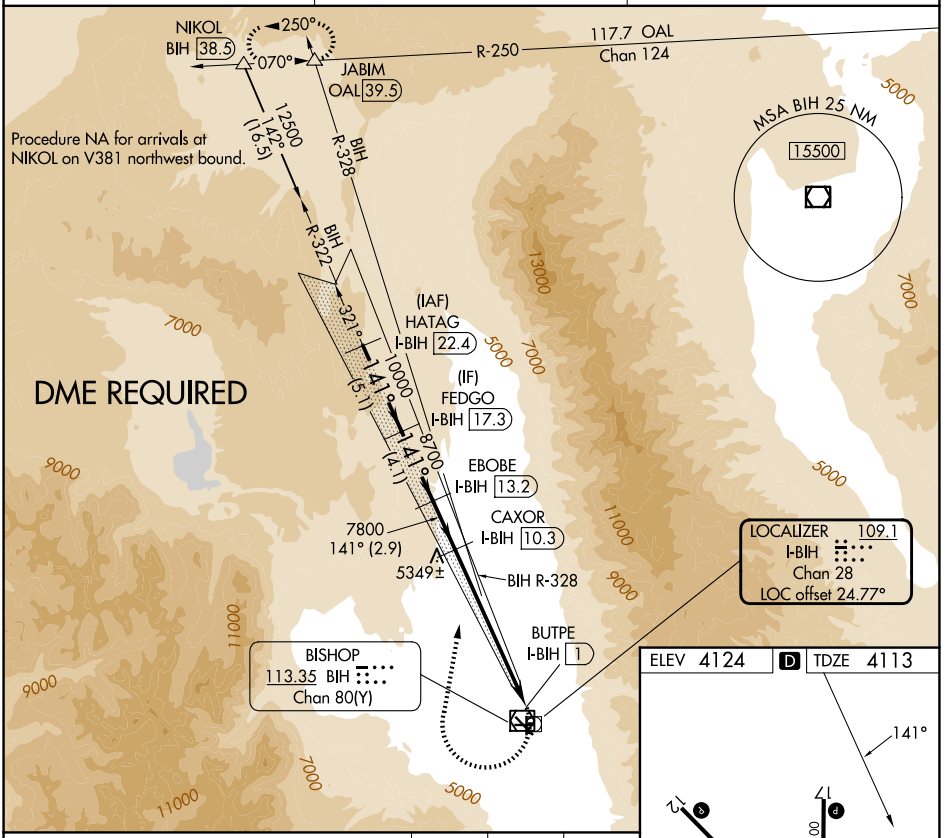
LOC/DME I-BIH	APP CRS	Rwy Ldg	5600
109.1	141°	TDZE	4113
Chan 28		Apt Elev	4124

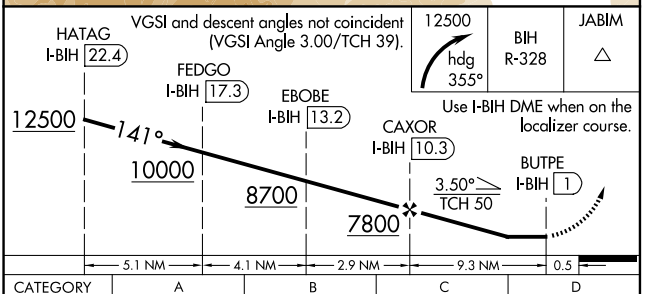
LDA RWY 17
BISHOP (BIH)

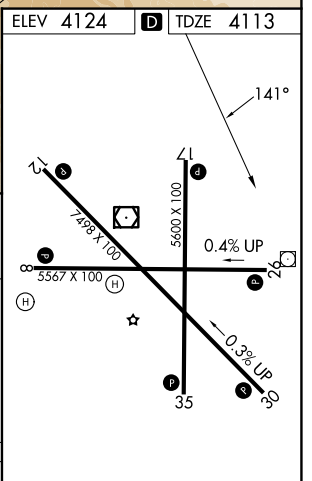
DME required.

MISSED APPROACH: Climbing right turn to 12500 on heading 355° and on BIH VOR/DME R-328 to JABIM INT/OAL 39.5 DME and hold.

ASOS	OAKLAND CENTER	UNICOM
119.025	125.75 284.65	123.0 (CTAF) L







CATEGORY	A	B	C	D
S-17	6340-1¼ 2227 (2300-1¼)	6340-1½ 2227 (2300-1½)	6340-3 2227 (2300-3)	

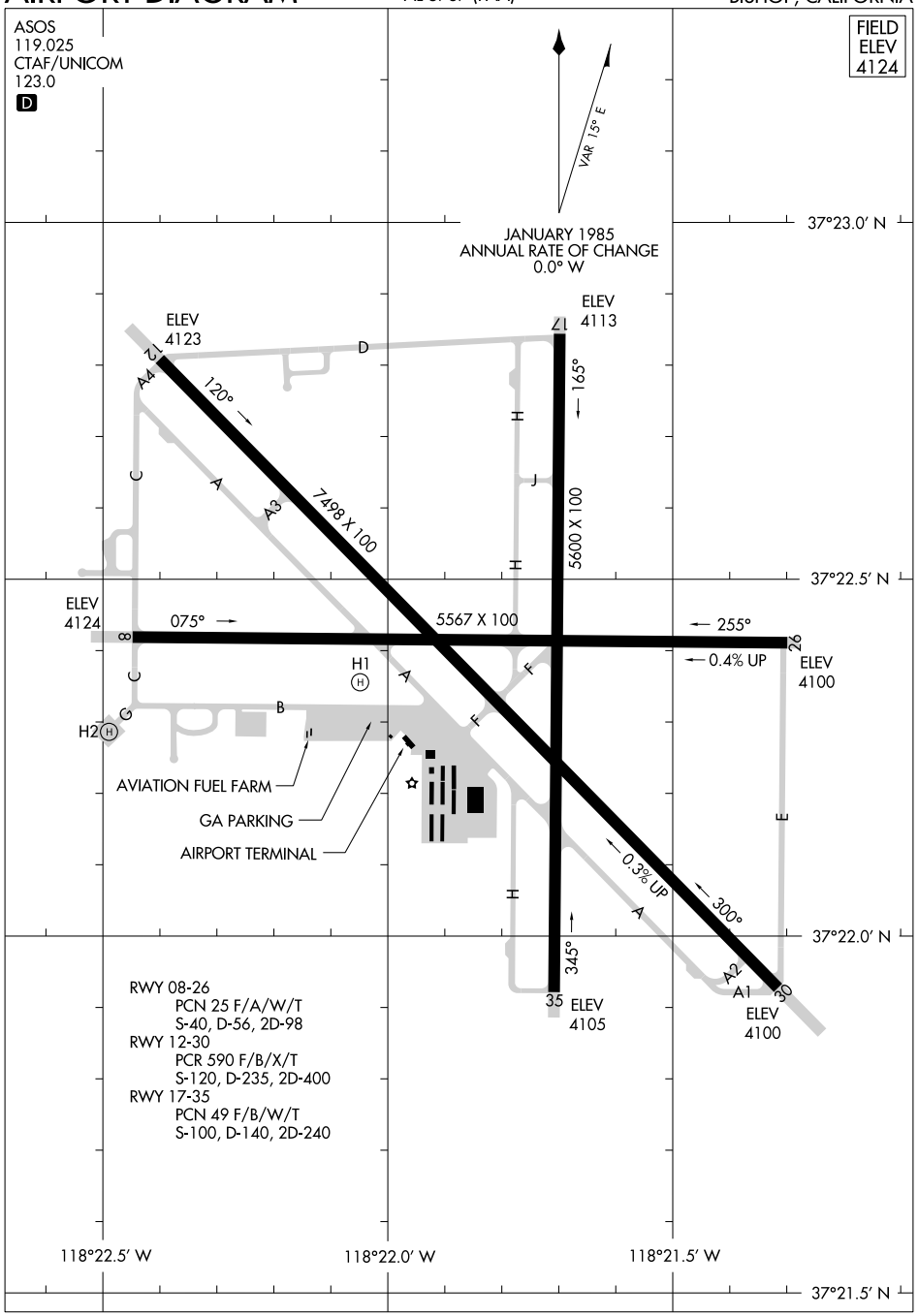
MIRL Rwys 8-26, 12-30, and 17-35 L
REIL Rwys 12, 17, 30 and 35

BISHOP, CALIFORNIA
Orig-D 15AUG19

37°22'N-118°22'W

BISHOP (BIH)
LDA RWY 17

SW-2, 09 JUL 2026 to 03 SEP 2026



AIRPORT DIAGRAM
26134
BISHOP, CALIFORNIA
BISHOP (BIH)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

BYRON, CALIFORNIA | AL-9141 (FAA) | 21112

RNAV (GPS) RWY 30

BYRON (C83)

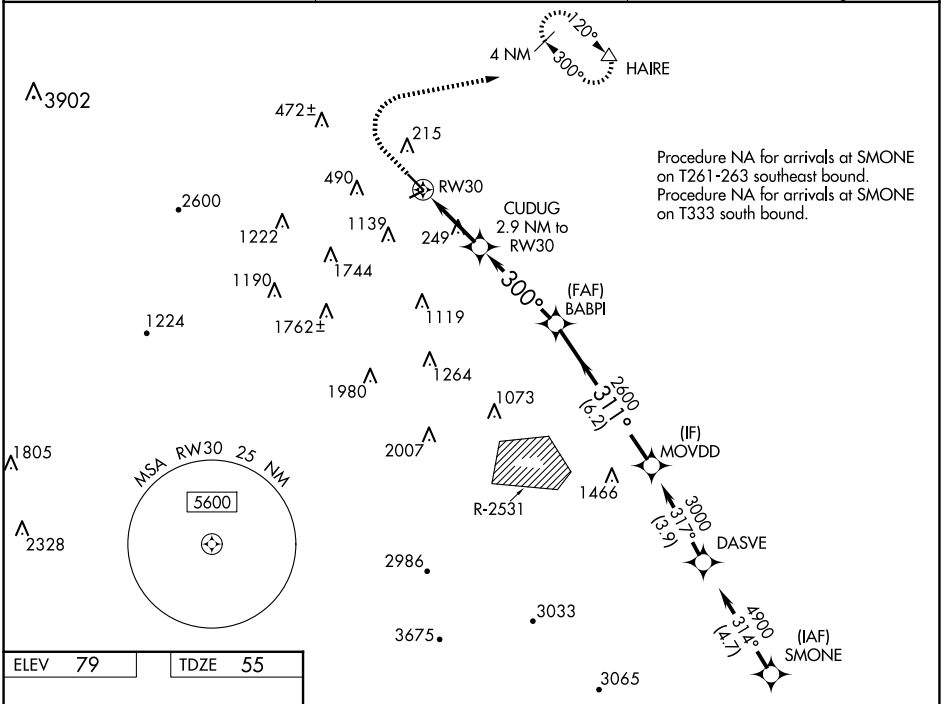
WAAS	APP CRS	Rwy Idg	4500
CH 65902	300°	TDZE	55
W30A		Apt Elev	79

RNP APCH.

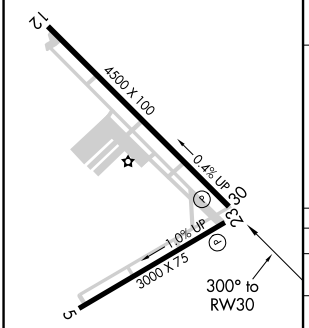
T A W For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 15°C (59°F). Circling NA southwest of Rwy 12-30.

MISSED APPROACH: Climb to 1000, then climbing right turn 4000 direct HAIRE and hold, continue climb-in-hold 4000.

AWOS-3	NORCAL APP CON	UNICOM
123.775	123.85 278.3	123.050 (CTAF) L



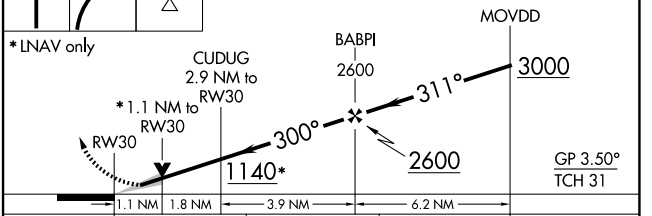
ELEV 79 | TDZE 55



REIL Rwy 30 L
MIRL Rwys 5-23 and 12-30 L

1000 | 4000 | HAIRE

VGSI and RNAV glidepath not coincident (VGSI Angle 3.50/ TCH 25).



CATEGORY	A	B	C	D
LPV DA	325-⅞ 270 (300-⅞)			
LNAV/VNAV DA	404-1⅛ 349 (400-1⅛)			
LNAV MDA	500-1 445 (500-1)		500-1⅜ 445 (500-1⅜)	
CIRCLING	600-1 521 (600-1)		680-1¾ 601 (700-1¾)	820-2½ 741 (800-2½)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS		
CH **68560**	**340°**	Rwy Idg	**5020**
W34B		TDZE	**4529**
		Apt Elev	**4534**

RNAV (GPS) RWY 34

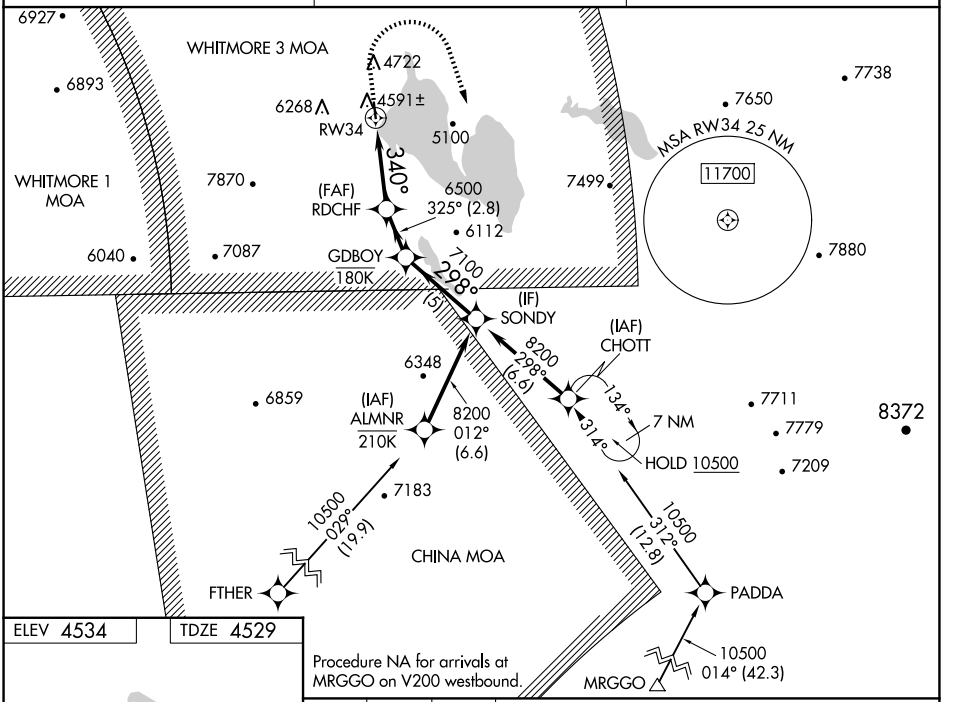
ROGERS FLD (OØ5)

RNP APCH - GPS.

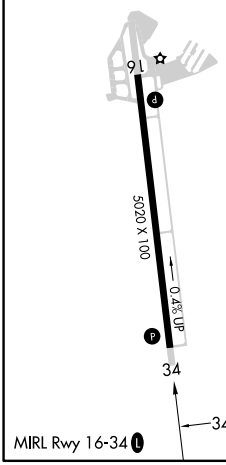
When local altimeter setting not received, procedure NA.
Rwy 34 helicopter visibility reduction below ¾ SM NA.
Circling NA for Cat C west of Rwy 16-34. Circling NA at night.

MISSED APPROACH: (Do not exceed 165K until initial turn completion) Climb to 5200 then climbing right turn to 10500 direct CHOTT and hold, continue climb-in-hold to 10500.
*Missed approach requires a minimum climb of 377 feet per NM to 7680 feet.

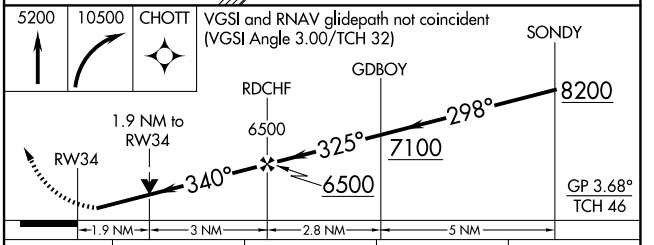
AWOS-3	OAKLAND CENTER	UNICOM
118.275	**132.2 350.3**	**122.8** (CTAF) L



ELEV 4534 | TDZ 4529



Procedure NA for arrivals at MRGGO on V200 westbound.



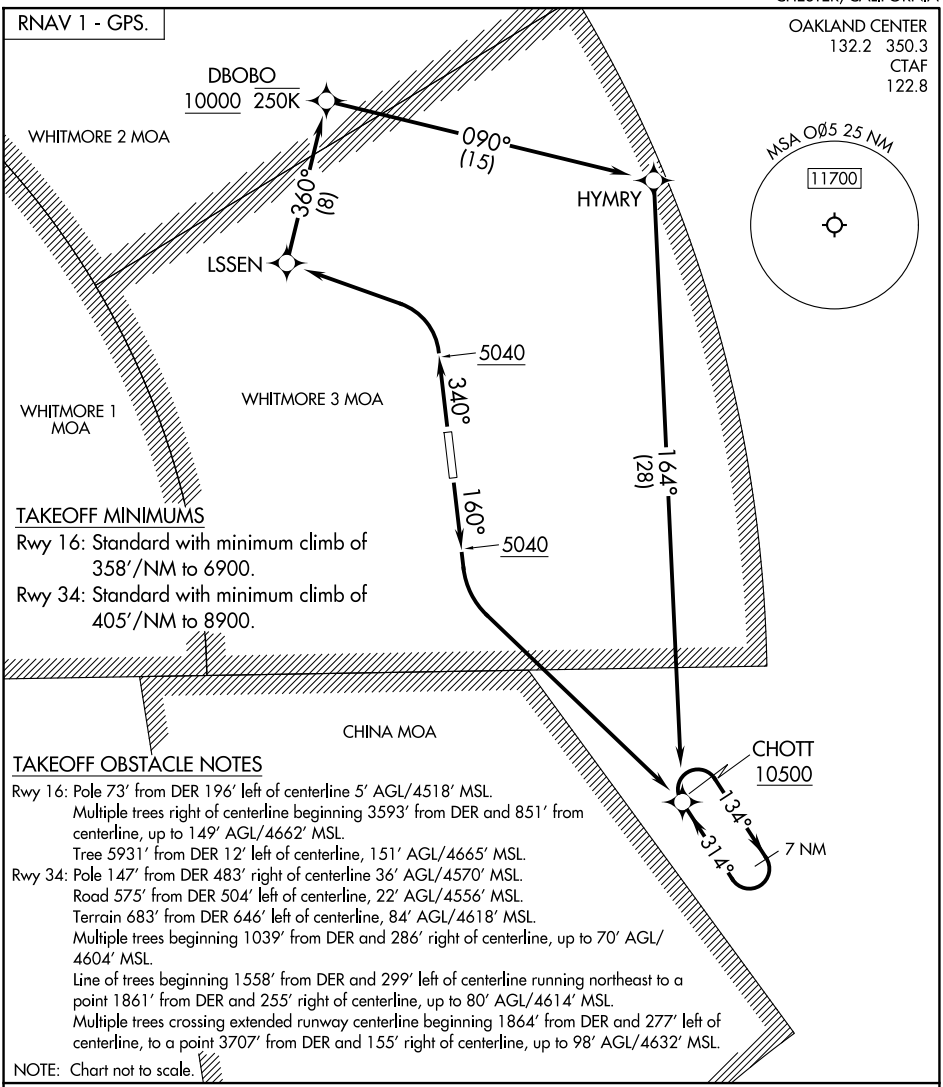
CATEGORY	A	B	C	D
LPV DA*	4779-¾ 250 (300-¾)		4829-⅞ 300 (300-⅞)	NA
LNAV MDA*	5160-1 631 (700-1)		5160-1¾ 631 (700-1¾)	NA
LNAV MDA	5360-1 831 (900-1)	5360-1¼ 831 (900-1¼)	5360-2½ 831 (900-2½)	NA
CIRCLING	5440-1¼ 906 (1000-1¼)	5660-1½ 1126 (1200-1½)	5660-3 1126 (1300-3)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(CHOTT1.CHOTT) 24305 AL-10031 (FAA-O)

CHOTT ONE DEPARTURE (OBSTACLE) (RNAV)

ROGERS FLD (Ø5)
CHESTER, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16: Climb on heading 160° to 5040, then climbing left turn to 10500 direct CHOTT, thence. . . .

TAKEOFF RUNWAY 34: Climb on heading 340° to 5040, then climbing left turn to 10500 direct LSSEN, then on depicted route to CHOTT, thence. . . .

. . . .continue climb in CHOTT holding pattern to cross CHOTT at or above 10500 before proceeding on course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS or LOC RWY 13L

CHICO RGNL (CIC)

LOC/DME I-CIC	APP CRS	Rwy Ldg	6724
111.3	131°	TDZE	240
Chan 50		Apt Elev	240

DME required.

Circling NA east of Rwy 13L/31R.

MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 6000 on heading 155° and RBL R-122 to DURHA INT/ RBL 34.2 DME and hold, continue climb-in-hold to 6000.

ATIS	OAKLAND CENTER	CHICO TOWER ★	GND CON	UNICOM
119.675	132.2 350.3	121.0 (CTAF) L 239.3	121.9	122.95

Procedure NA for arrivals on Red Bluff VORTAC airway radials 122 CW 140.

IAF RED BLUFF 115.7 RBL Chan 104

3000 105° (11.8)

R-105 311°

(IF) ZOTWY INT I-CIC 14.8 RBL 11.8

2700 131° (5.9)

NORDE I-CIC 8.8

CUBUN I-CIC 3.8

324±

R-122

LOCALIZER 111.3 I-CIC Chan 50

MSA RBL 27 NM

6700 180° 8100 270° 5200 360° 9300 090°

MISSED APCH FIX

115.7 RBL R-122 Chan 104 122° 302° R-001 DURHA RBL 34.2

114.4 IIA Chan 91

1000 2000 3000

ELEV 240 D TDZE 240

131°

13L 31R 13R 31L

TWR

3000 X 60 6724 X 150

0.4% UP 0.5% UP

REIL Rwy 31R L

HIRL Rwy 13L-31R L

ZOTWY INT I-CIC 14.8 NORDE I-CIC 8.8 CUBUN I-CIC 3.8 *I-CIC 2.2 I-CIC 1.3

3000 131° 2700 2700 *1080

GS 3.00° TCH 52

5.9 NM 5.1 NM 1.6 NM 0.9 NM

1000 6000 hdg R-155 RBL R-122 DURHA

*LOC only

CATEGORY	A	B	C	D
S-ILS 13L	440-½ 200 (200-½)			
S-LOC 13L	580-½ 340 (400-½)			
CIRCLING	640-1 400 (400-1)	700-1 460 (500-1)	700-1½ 460 (500-1½)	800-2 560 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

CHICO, CALIFORNIA | AL-557 (FAA) | 25331

RNAV (GPS) RWY 13L

CHICO RGNL (CIC)

WAAS	APP CRS	Rwy Ldg	6724
CH 65912	131°	TDZE	240
W13A		Apt Elev	240

RNP APCH.

T A Circling NA east of Rwy 13L-31R. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to ⅞ SM, and increase LNAV Cats C/D visibility to 1 SM.

MALSR

MISSED APPROACH: Climb to 3600 direct UNJED and hold, continue climb-in-hold to 3600.

ATIS	OAKLAND CENTER	CHICO TOWER★	GND CON	UNICOM
119.675	132.2 350.3	121.0 (CTAF) L 239.3	121.9	122.95

Procedure NA for arrival on Red Bluff VORTAC airway radials 122 CW 185.

(IAF) RED BLUFF RBL

3000 107° (11.8)

(IF) ZOTWY

2700 131° (5.9)

(FAF) NORDE

CUBUN 2.5 NM to RW13L

349±

RW13L

MSA RW13L 25 NM

8300

MISSED APCH FIX

UNJED

132° 312°

4 NM

ELEV 240 D TDZE 240

131°

13L

13R

TWR

6724 X 150

3000 X 60

0.4% UP

0.5% UP

31L

31R

REIL Rwy 31R L

HIRL Rwy 13L-31R L

ZOTWY NORDE CUBUN 2.5 NM to RW13L *1 NM to RW13L RW13L

3000 131° 2700 2700 *1080

GP 3.00° TCH 52

5.9 NM 5.1 NM 1.5 NM 1 NM

3600 UNJED

*LNAV only

CATEGORY	A	B	C	D
LPV DA	440-½ 200 (200-½)			
LNAV/VNAV DA	530-½ 290 (300-½)			
LNAV MDA	600-½ 360 (400-½)		600-⅝ 360 (400-⅝)	
CIRCLING	640-1 400 (400-1)	700-1 460 (500-1)	700-1½ 460 (500-1½)	800-2 560 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 31R

CHICO RGNL (CIC)

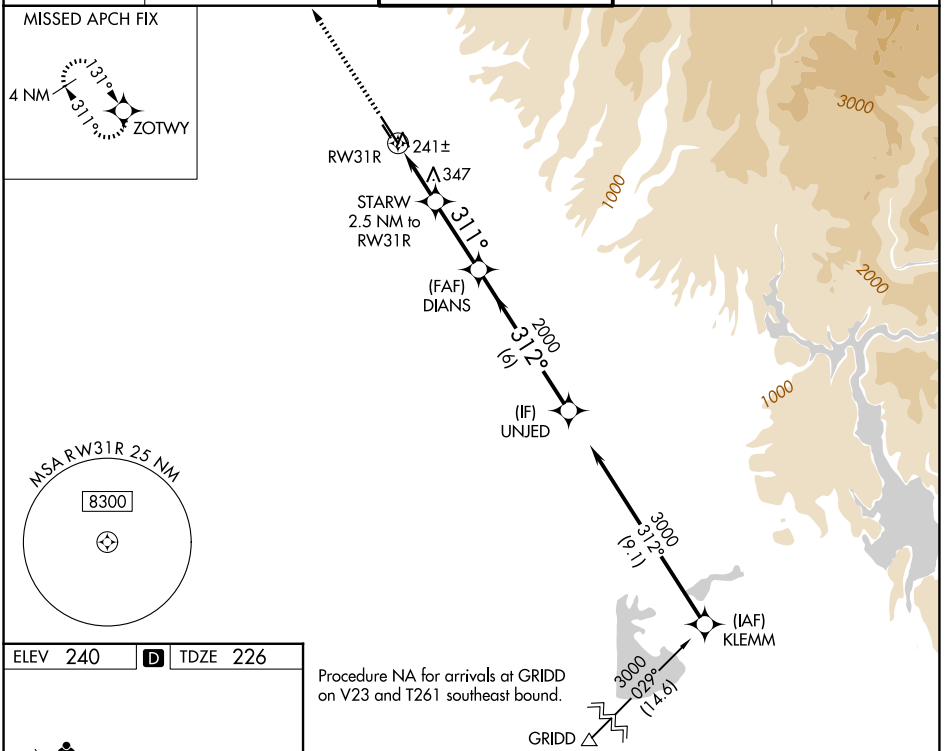
WAAS CH 77912 W31A	APP CRS 311°	Rwy Ldg 6724 TDZE 226 Apt Elev 240

RNP APCH.

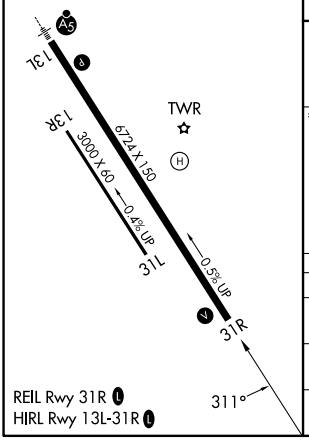
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 48°C.

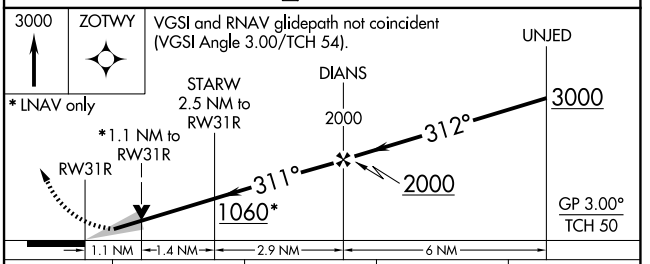
MISSED APPROACH: Climb to 3000 direct ZOTWY and hold.

ATIS	OAKLAND CENTER	CHICO TOWER ★	GND CON	UNICOM
119.675	132.2 350.3	121.0 (CTAF) L 239.3	121.9	122.95



ELEV 240 D TDZE 226





CATEGORY	A	B	C	D
LPV DA	476-1 250 (300-1)			
LNAV/VNAV DA	733-1¾ 507 (500-1¾)			
LNAV MDA	600-1 374 (400-1)			600-1¼ 374 (400-1¼)

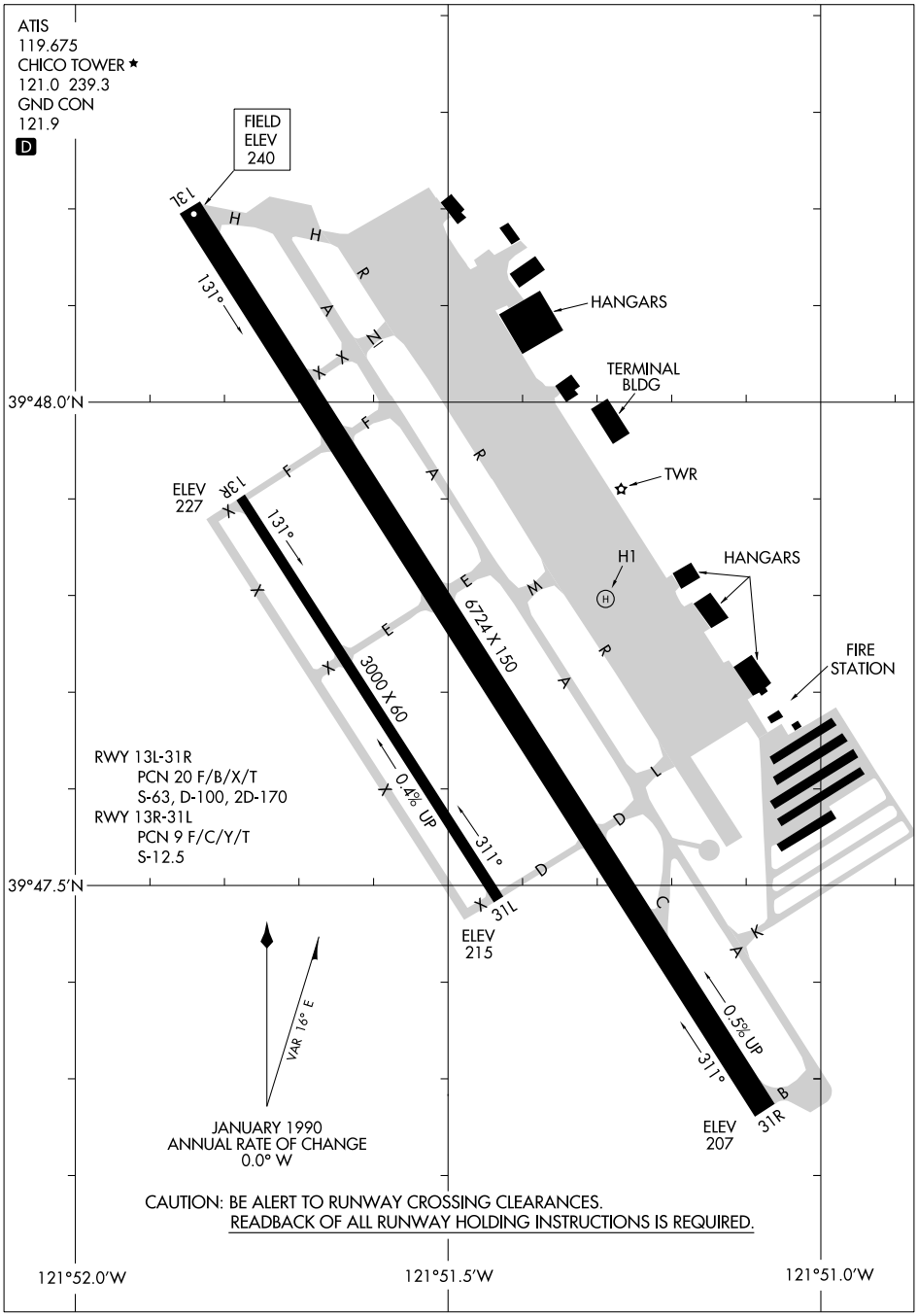
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26190

AIRPORT DIAGRAM

AL-557 (FAA)

CHICO RGNL (CIC)
CHICO, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026

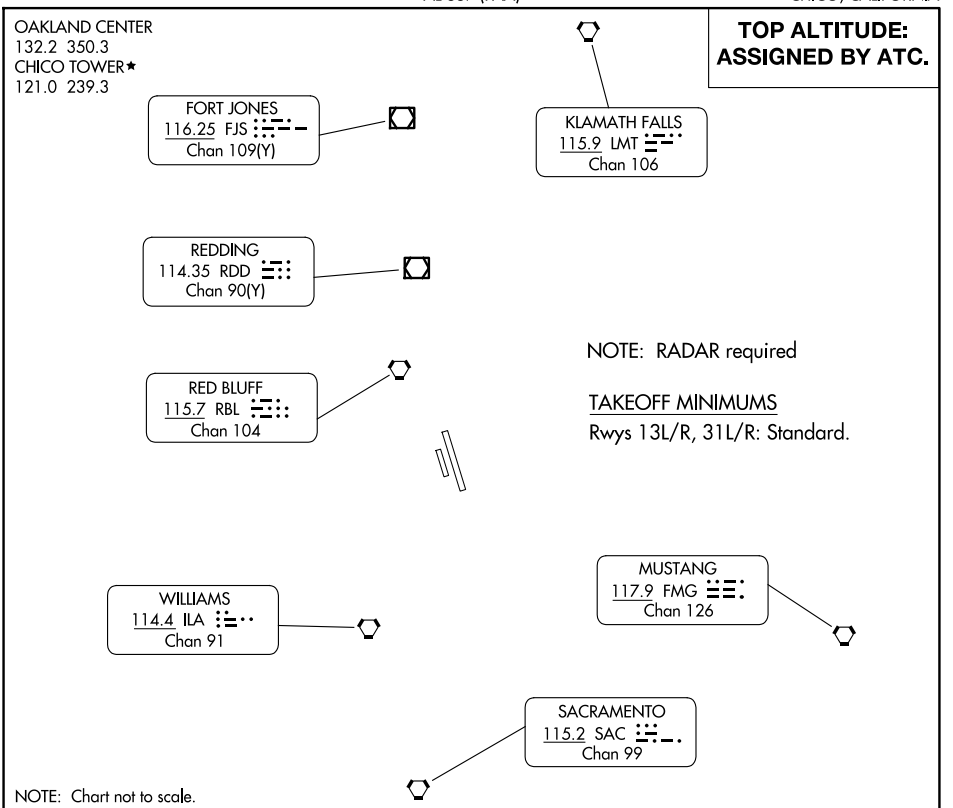
SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM
26190

CHICO, CALIFORNIA
CHICO RGNL (CIC)

CHICO FIVE DEPARTURE

AL-557 (FAA)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13L/R: Climb on a heading between 140° CW 310° from departure end of runway to assigned altitude. Thence. . . .

TAKEOFF RUNWAYS 31L/R: Climb on a heading between 320° CCW 132° from departure end of runway to assigned altitude. Thence. . . .

. . . .RADAR vectors to assigned route. Maintain assigned altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS

For aircraft assigned a heading between 120° CW through 250°: if not in contact with Oakland Center after reaching 3000, continue climb to 5000 or higher assigned altitude and proceed to ILA VORTAC, thence. . . .

For aircraft assigned a heading between 255° CW through 320°: if not in contact with Oakland Center after reaching 3000, continue climb to 5000 or higher assigned altitude and proceed to RBL VORTAC, thence. . . .

. . . .Proceed on assigned route.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

CLOVERDALE, CALIFORNIA | AL-9503 (FAA) | 26022

APP CRS	Rwy Ldg	2909
314°	TDZE	276
	Apt Elev	276

RNAV (GPS) RWY 32

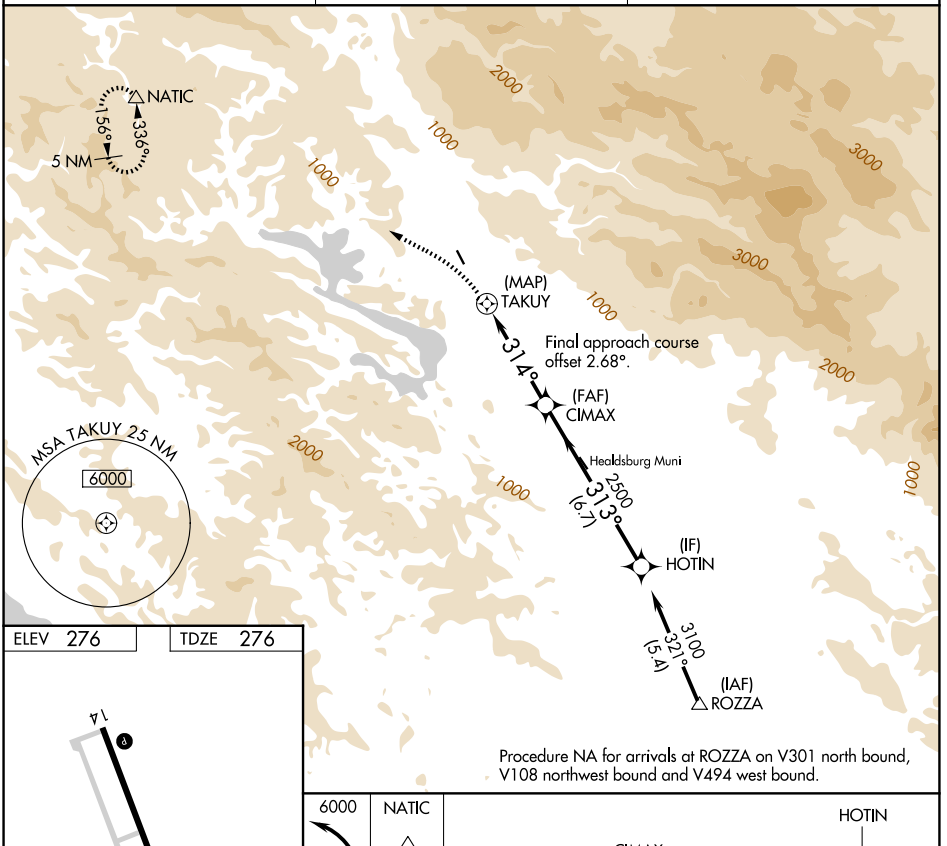
CLOVERDALE MUNI (O60)

RNP APCH-GPS.

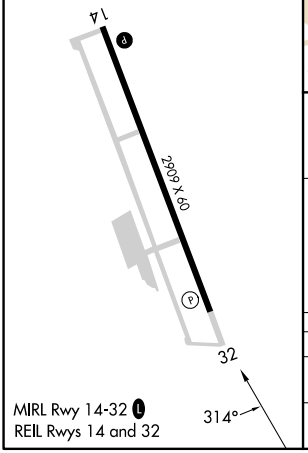
Circling Cat C NA northeast of Rwy 14-32. Helicopter visibility reduction below 1 SM NA. Procedure NA at night. Use Santa Rosa altimeter setting.

MISSED APPROACH: Climbing left turn to 6000 direct NATIC and hold, continue climb-in-hold to 6000.

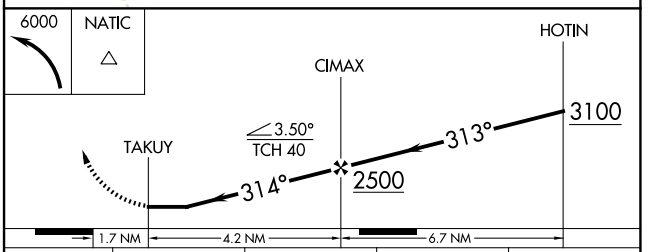
STS ASOS	OAKLAND CENTER	UNICOM
120.55	127.8 353.5	122.8 (CTAF) L



ELEV 276 | TDZE 276



MIRL Rwy 14-32 L
REIL Rwys 14 and 32



CATEGORY	A	B	C	D
LNAV MDA	1320-2 1044 (1100-2)		1320-3 1044 (1100-3)	NA
CIRCLING	1500-2 1224 (1300-2)	2180-2 1904 (2000-2)	2180-3 1904 (2000-3)	NA

CLOVERDALE, CALIFORNIA
Amdt 1 12AUG21

38°47′N-123°00′W

CLOVERDALE MUNI (O60)
RNAV (GPS) RWY 32

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 30

NEW COALINGA MUNI (C80)

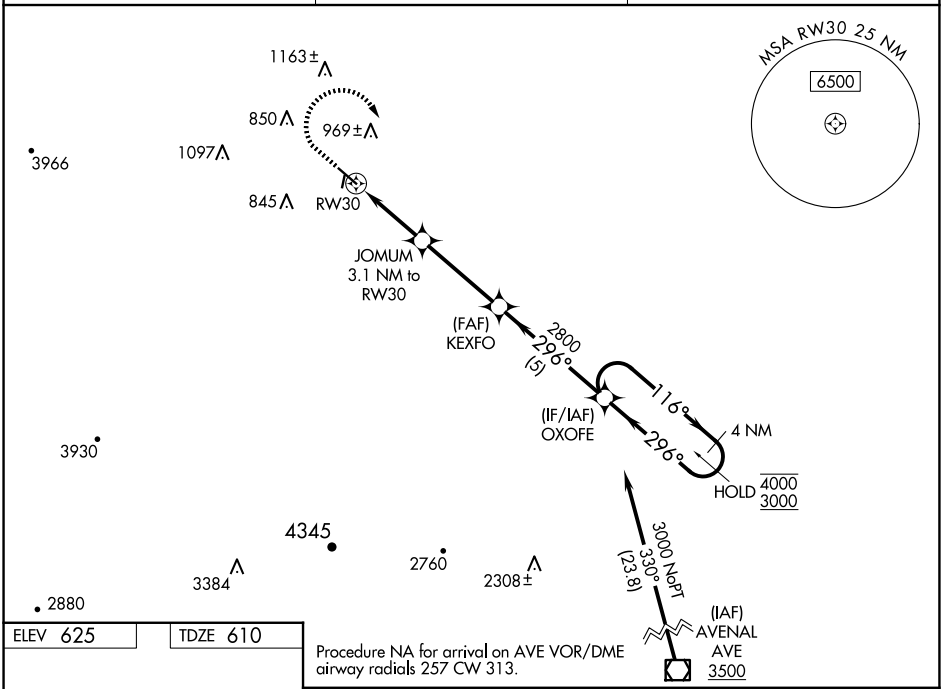
WAAS	APP CRS	Rwy Idg	5000
CH 69544	296°	TDZE	610
W30A		Apt Elev	625

RNP APCH - GPS.

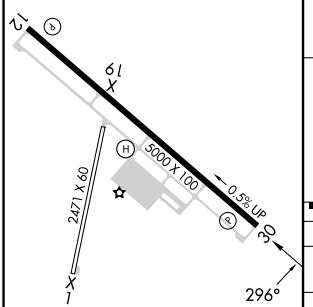
Circling to Rwy 1, 19 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

MISSED APPROACH: Climb to 1200, then climbing right turn to 3000 direct OXOFE and hold.

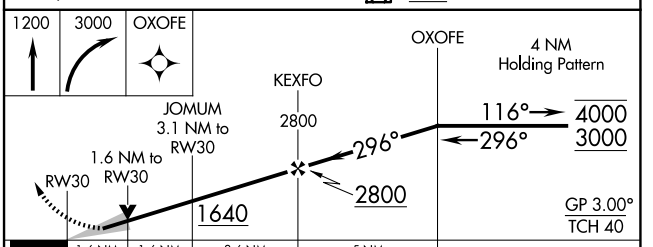
AWOS-3	OAKLAND CENTER	UNICOM
119.275	128.7 307.0	122.7 (CTAF) L



ELEV 625 TDZE 610



MIRL Rwy 12-30 L
REIL Rwys 12 and 30 L



CATEGORY	A	B	C	D
LPV DA	936-1 326 (400-1)			
LNAV/VNAV DA	1030-1⅛ 420 (500-1⅛)			
LNAV MDA	1140-1 530 (600-1)		1140-1½ 530 (600-1½)	
CIRCLING	1160-1 535 (600-1)	1320-1 695 (700-1)	1420-2¼ 795 (800-2¼)	1700-3 1075 (1100-3)

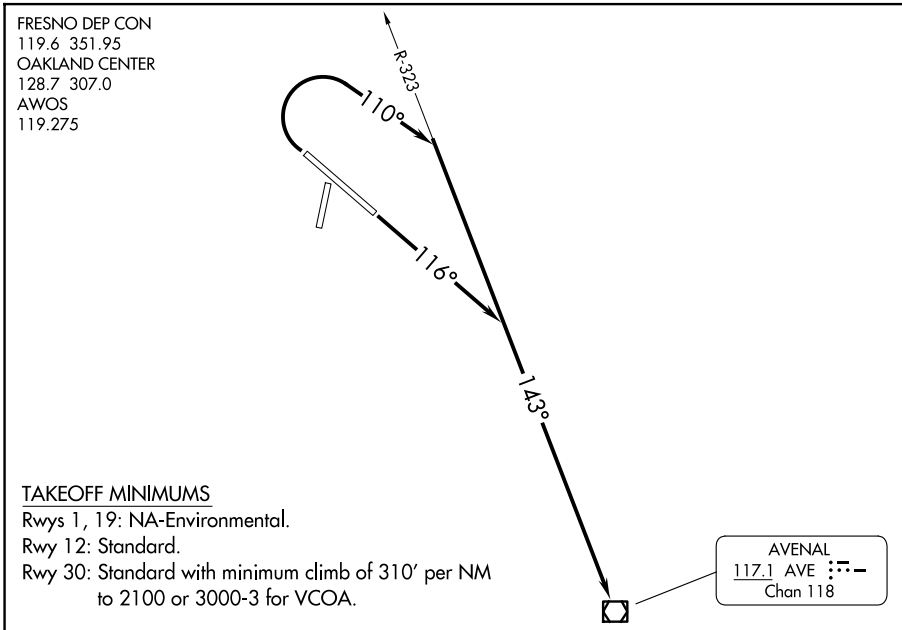
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(AVE1.AVE) 23278

AVENAL ONE DEPARTURE(OBSTACLE)

AL-9514 (FAA)

NEW COALINGA MUNI (C80)
COALINGA, CALIFORNIA



TAKEOFF MINIMUMS

Rwys 1, 19: NA-Environmental.
Rwy 12: Standard.
Rwy 30: Standard with minimum climb of 310' per NM to 2100 or 3000-3 for VCOA.

TAKEOFF OBSTACLE NOTES

Rwy 12: Vehicle on road beginning 9' from DER, 362' left of centerline, up to 614' MSL.
Navaid 15' from DER, 125' right of centerline, 2' AGL/603' MSL.
Vehicle on road beginning 76' from DER, 506' right of centerline, up to 614' MSL.
Rwy 30: Navaid 14' from DER, 125' left of centerline, 1' AGL/626' MSL.
Terrain 43' from DER, 472' right of centerline, 627' MSL.
Vehicle on road beginning 145' from DER, 456' right of centerline, up to 645' MSL.
Vehicle on road 202' from DER, 446' left of centerline, 643' MSL.
Vehicle on road 330' from DER, 378' right of centerline, 646' MSL.
Vehicle on road beginning 384' from DER, 1' left of centerline, up to 644' MSL.
Vehicle on road 532' from DER, 362' right of centerline, 647' MSL.
Vehicle on road beginning 655' from DER, on and left of centerline, up to 646' MSL.
Vehicle on road beginning 679' from DER, on and right of centerline, up to 648' MSL.
Vehicle on road beginning 731' from DER, 113' left of centerline, up to 648' MSL.

NOTE: Chart not to scale.

SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 12: Climb on heading 116° to intercept AVE VOR/DME R-323 to AVE VOR/DME then proceed on course.

TAKEOFF RUNWAY 30: Climbing right turn to heading 110° to intercept AVE VOR/DME R-323 to AVE VOR/DME then proceed on course.

VCOA RUNWAY 30: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross New Coalinga Muni Airport at or above 3500 before proceeding on course.

APP CRS	Rwy Ldg	4289
354°	TDZE	2105
	Apt Elev	2121

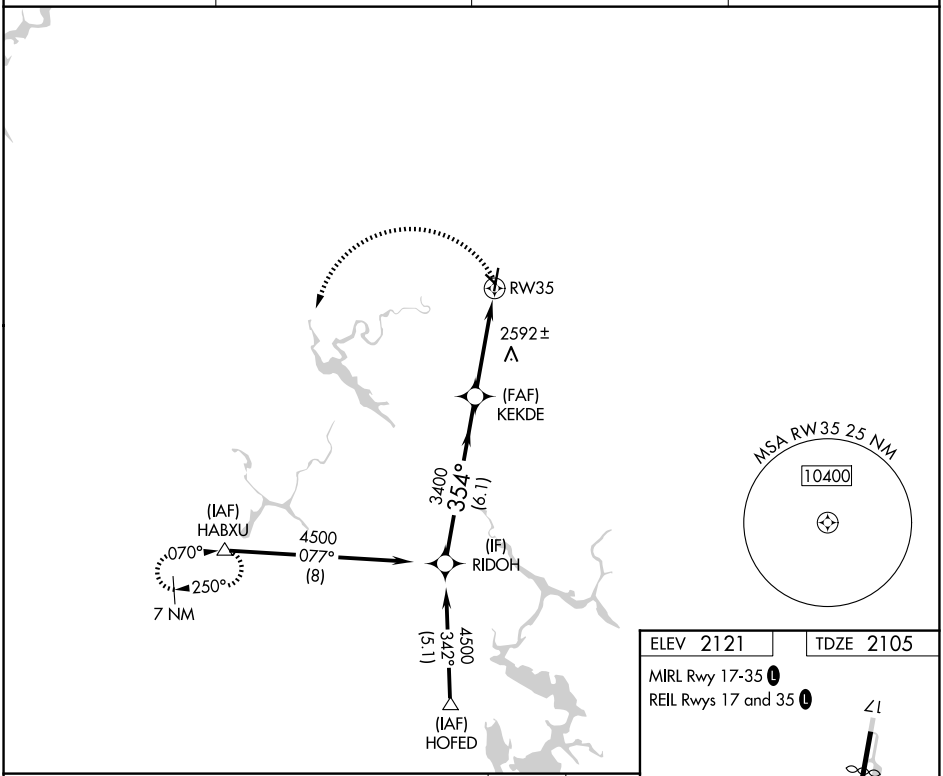
RNAV (GPS) RWY 35
COLUMBIA (O22)

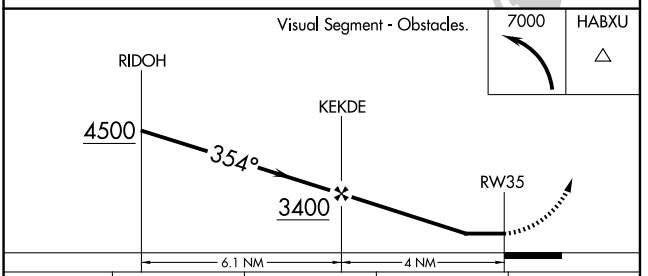
RNP APCH.

Circling NA to Rwys 11 and 29. Circling NA east of Rwy 17-35. Procedure NA at night. Rwy 35 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 7000 direct HABXU and hold, continue climb-in-hold to 7000.

AWOS-3	NORCAL APP CON	OAKLAND CENTER	UNICOM
124.65	125.1 363.2 (N/W)	121.25 327.0 (E/S)	122.975 (CTAF) L



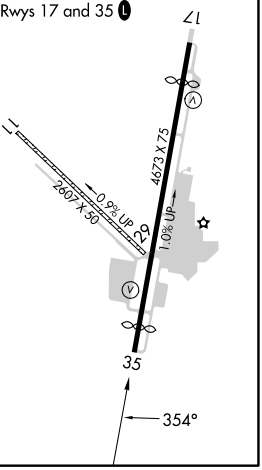


CATEGORY	A	B	C	D
LNAV MDA	3140-1¼ 1035 (1100-1¼)	3140-1½ 1035 (1100-1½)	3140-3 1035 (1100-3)	NA
CIRCLING	3140-1¼ 1019 (1100-1¼)	3140-1½ 1019 (1100-1½)	3140-3 1019 (1100-3)	NA

ELEV 2121 TDZE 2105

MIRL Rwy 17-35 L

REIL Rwys 17 and 35 L



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(FICHU4.HABXU) 23026

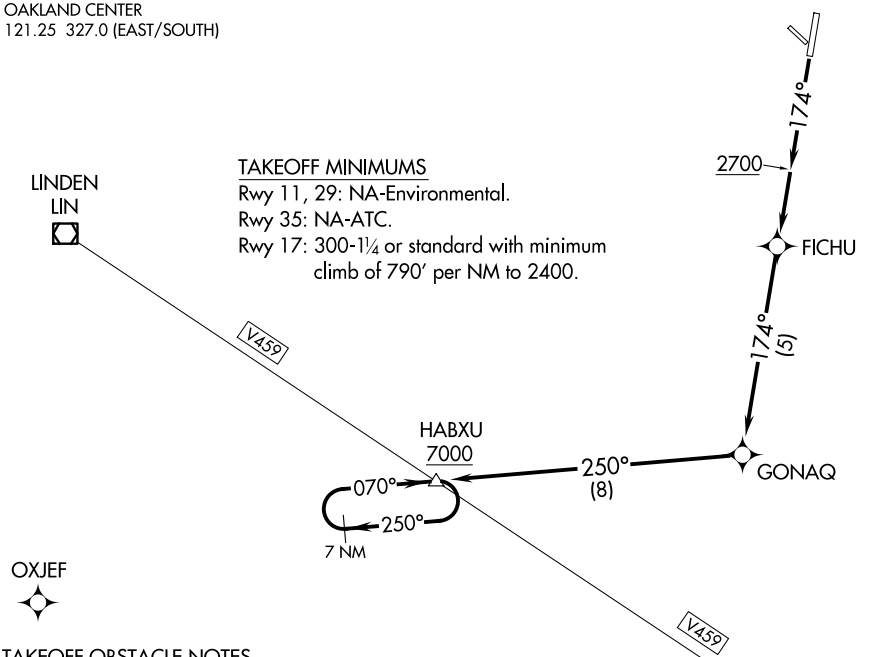
FICHU FOUR DEPARTURE (OBSTACLE) (RNAV)

AL-6786 (FAA)

COLUMBIA (O22)
COLUMBIA, CALIFORNIA

RNAV 1 - GPS.

NORCAL DEP CON
125.1 363.2 (NORTH/WEST)
OAKLAND CENTER
121.25 327.0 (EAST/SOUTH)



TAKEOFF OBSTACLE NOTES

Rwy 17: Vegetation 31' from DER, 196' right of centerline, 2083' MSL.
Tree 148' from DER, 387' right of centerline, 2108' MSL.
Trees beginning 180' from DER, 287' left of centerline, up to 2126' MSL.
Tree 262' from DER, 527' right of centerline, 2163' MSL.
Trees beginning 353' from DER, 240' left of centerline, up to 2127' MSL.
Trees, traverse way, pole, terrain, vegetation beginning 414' from DER, 46' right of centerline, up to 2188' MSL.
Tree 456' from DER, 325' left of centerline, 2130' MSL.
Trees beginning 492' from DER, 109' left of centerline, up to 2133' MSL.
Trees beginning 725' from DER, 26' left of centerline, up to 2171' MSL.
Trees beginning 1259' from DER, 57' left of centerline, up to 2181' MSL.
Tree 1527' from DER, 892' right of centerline, 2205' MSL.
Tree 1620' from DER, 859' right of centerline, 2220' MSL.
Trees beginning 1665' from DER, 895' right of centerline, up to 2238' MSL.
Tree 2151' from DER, 983' left of centerline, 2212' MSL.
Trees, tower beginning 2195' from DER, 442' left of centerline, up to 2273' MSL.
Tree 5936' from DER, 560' left of centerline, 2239' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17: Climb on heading 174° to 2700, then climb direct to FICHU, then on track 174° to GONAQ, then on track 250° to HABXU, maintain 7000. Continue climb in hold in HABXU holding pattern to cross HABXU at or above MEA for route of flight.

APP CRS	Rwy Ldg	N/A
138°	TDZE	N/A
	Apt Elev	49

RNAV (GPS)-B

SIDNEY PICKELS FLD (OØ8)

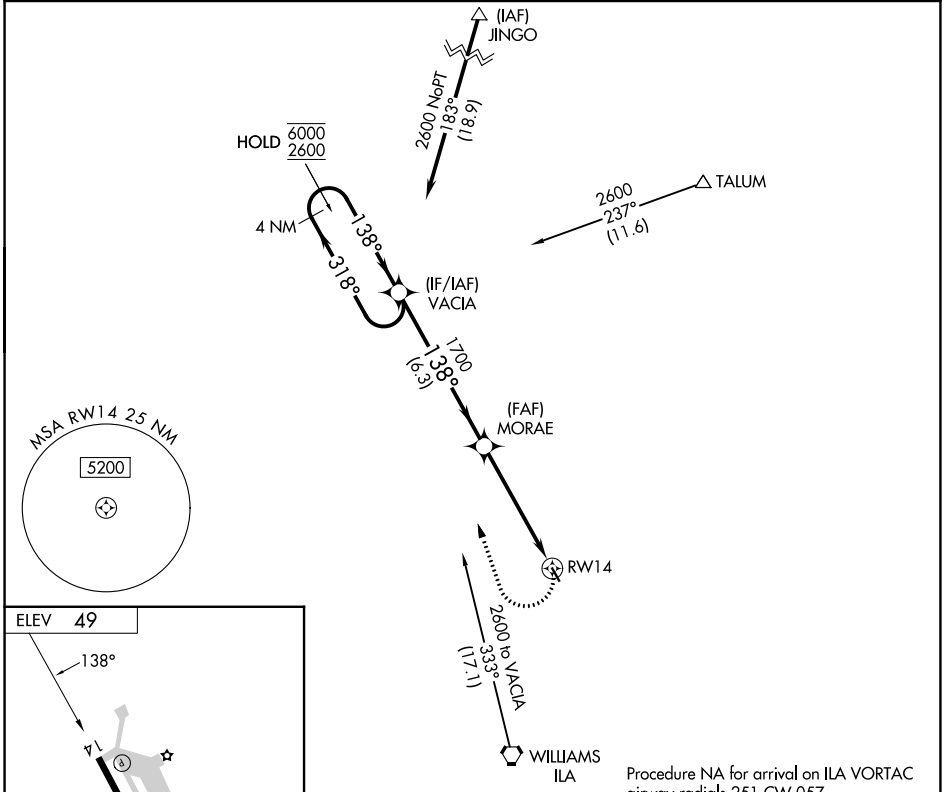
RNP APCH - GPS.

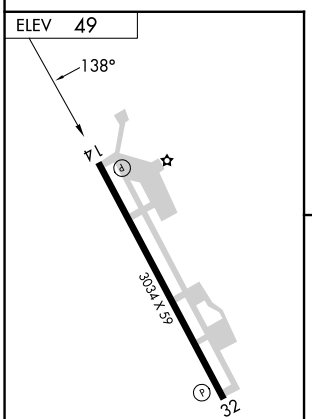
T
A NA

Circling Rwy 32 NA at night. Rwy 14, 32 helicopter visibility reduction below 1 SM NA. Use SMF altimeter setting.

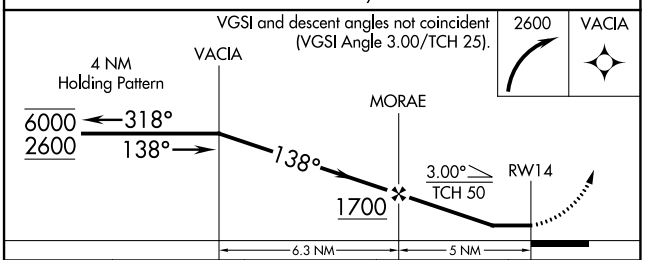
MISSED APPROACH: Climbing right turn to 2600 direct VACIA and hold.

SMF ASOS	OAKLAND CENTER	UNICOM
126.75	132.2 350.3	122.8 (CTAF) L





MIRL Rwy 14-32 L



CATEGORY	A	B	C	D
CIRCLING	640-1 591 (600-1)	660-1 611 (700-1)	660-1¾ 611 (700-1¾)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

COLUSA, CALIFORNIA | AL-5147 (FAA) | 26190

WAAS	APP CRS	Rwy Ldg 3034
CH 65840	318°	TDZE 49
W32A		Apt Elev 49

RNAV (GPS) RWY 32

SIDNEY PICKELS FLD (OØ8)

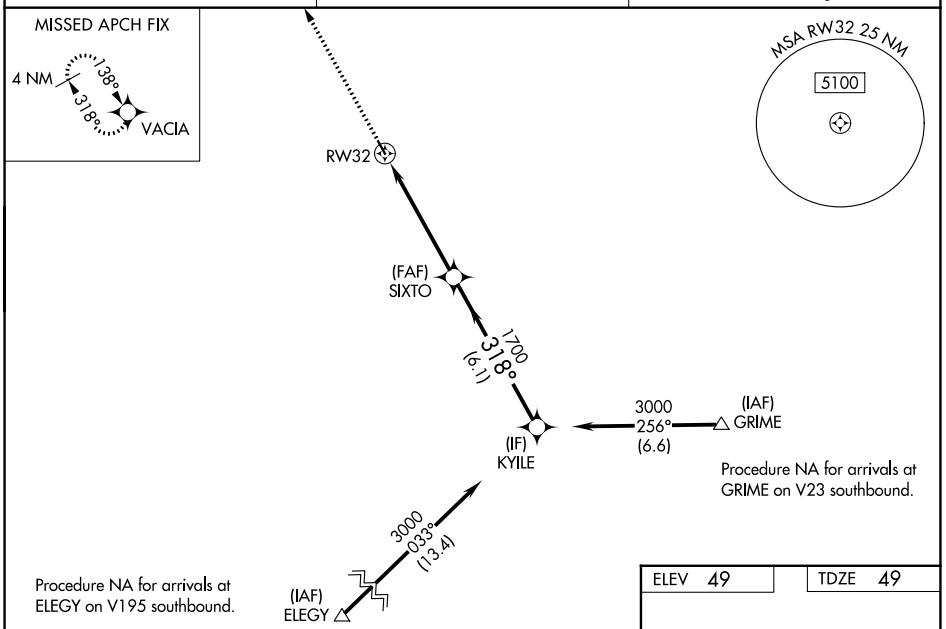
RNP APCH - GPS.

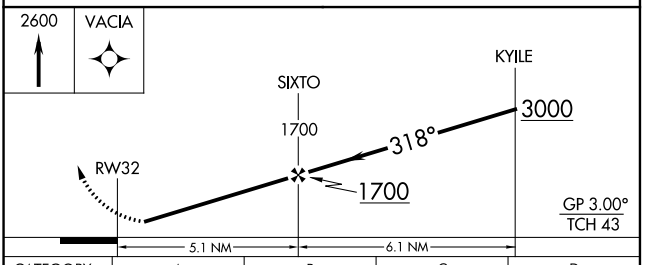
T
NA

Baro-VNAV NA when using Sacramento Intl altimeter setting. Rwy 32 helicopter visibility reduction below 1 SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. Procedure NA at night. Use SMF altimeter setting.

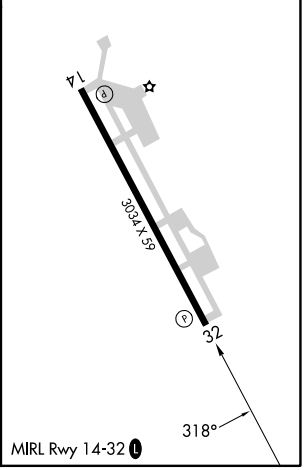
MISSED APPROACH: Climb to 2600 direct VACIA and hold.

SMF ASOS	OAKLAND CENTER	UNICOM
126.75	132.2 350.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	381-1 332 (400-1)			NA
LNAV/VNAV DA	551-1⅜ 502 (600-1⅜)			NA
LNAV MDA	600-1 551 (600-1)		600-1⅝ 551 (600-1⅝)	NA
CIRCLING	640-1 591 (600-1)	660-1 611 (700-1)	660-1¾ 611 (700-1¾)	NA



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VORTAC ILA	APP CRS	Rwy Ldg	N/A
114.4	356°	TDZE	N/A
Chan 91		Apt Elev	49

VOR-A

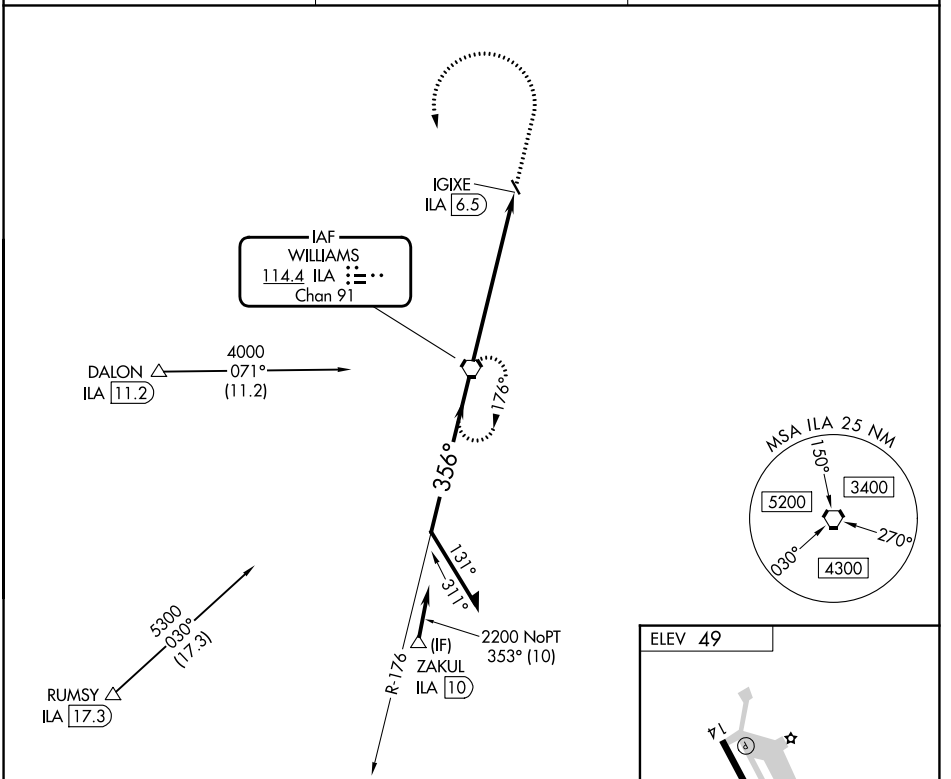
SIDNEY PICKELS FLD (OØ8)

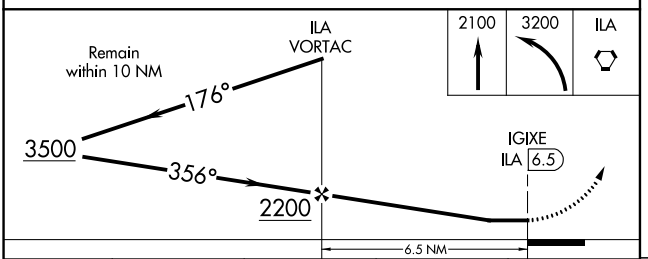
DME required.

NA Circling Rwy 32 NA at night. Use SMF altimeter setting.

MISSED APPROACH: Climb to 2100 then climbing left turn to 3200 direct ILA VORTAC and hold.

SMF ASOS	OAKLAND CENTER	UNICOM
126.75	132.2 350.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
CIRCLING	640-1 591 (600-1)	660-1 611 (700-1)	660-1¾ 611 (700-1¾)	NA

FAF to MAP 6.5 NM					
Knots	60	90	120	150	180
Min:Sec	6:30	4:20	3:15	2:36	2:10

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 19R

BUCHANAN FLD (CCR)

WAAS	APP CRS	Rwy Ldg	4400
CH 86424	191°	TDZE	22
W19A		Apt Elev	26

RNP APCH - GPS.

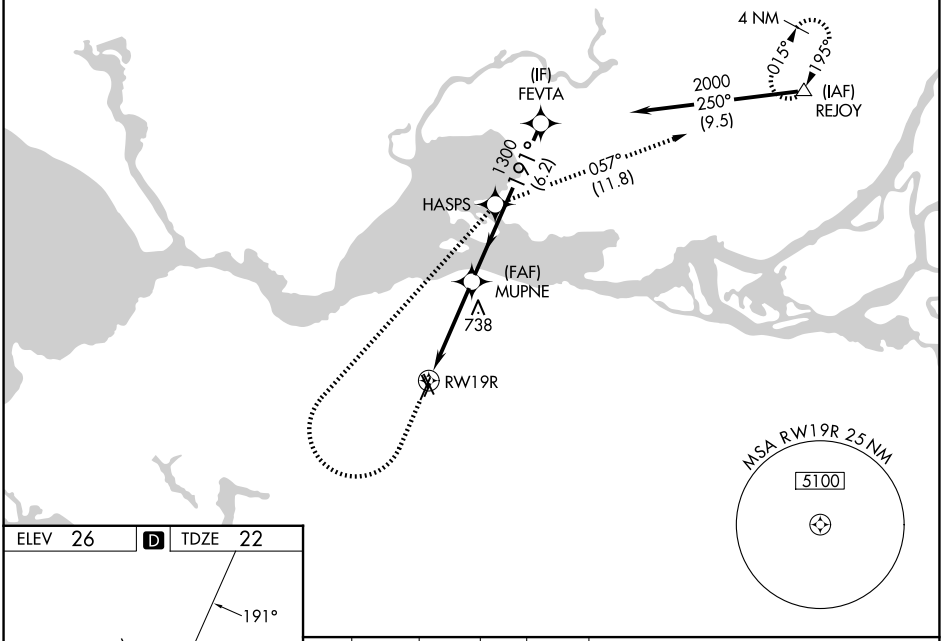
Circling to Rwy 1L, 1R, 32R, 32L and 19L NA at night. Circling NA west of Rwys 1L and 19R. Rwy 19R helicopter visibility reduction below ¾ SM NA. Inop table does not apply to LPV all Cats. For inop ALS, increase LNAV Cat C and D visibility to 3 SM.

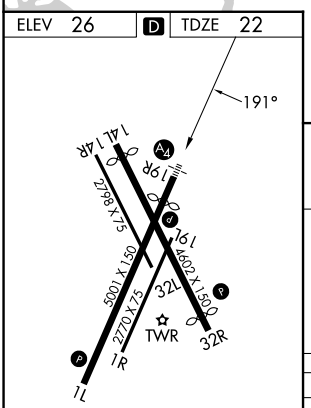
MALS

MISSED APPROACH: (Do not exceed 190K until HASPS) Climb to 500 then climbing right turn to 3000 direct HASPS then on track 057° direct REJOY and hold.

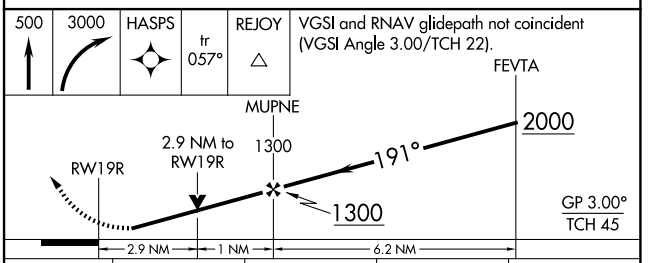
ATIS	TRAVIS APP CON	CONCORD TOWER*	GND CON	UNICOM
124.7	119.9 322.325	119.7 (CTAF) L 257.8	121.9	122.95

Procedure NA for arrivals at REJOY on V6 northeast bound.





HIRL Rwy 1L-19R
REIL Rwys 1L and 32R
MIRL Rwy 14L-32R



CATEGORY	A	B	C	D
LPV DA	298-¾ 276 (300-¾)			
LNAV MDA	980-1 958 (1000-1)	980-1¼ 958 (1000-1¼)	980-2½ 958 (1000-2½)	
CIRCLING	980-1¼ 954 (1000-1¼)	980-1½ 954 (1000-1½)	980-3 954 (1000-3)	1300-3 1274 (1300-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LDA RWY 19R

BUCHANAN FLD (CCR)

LOC/DME I-CCR	APP CRS	Rwy Ldg	4400
108.5	185°	TDZE	22
Chan 22		Apt Elev	26

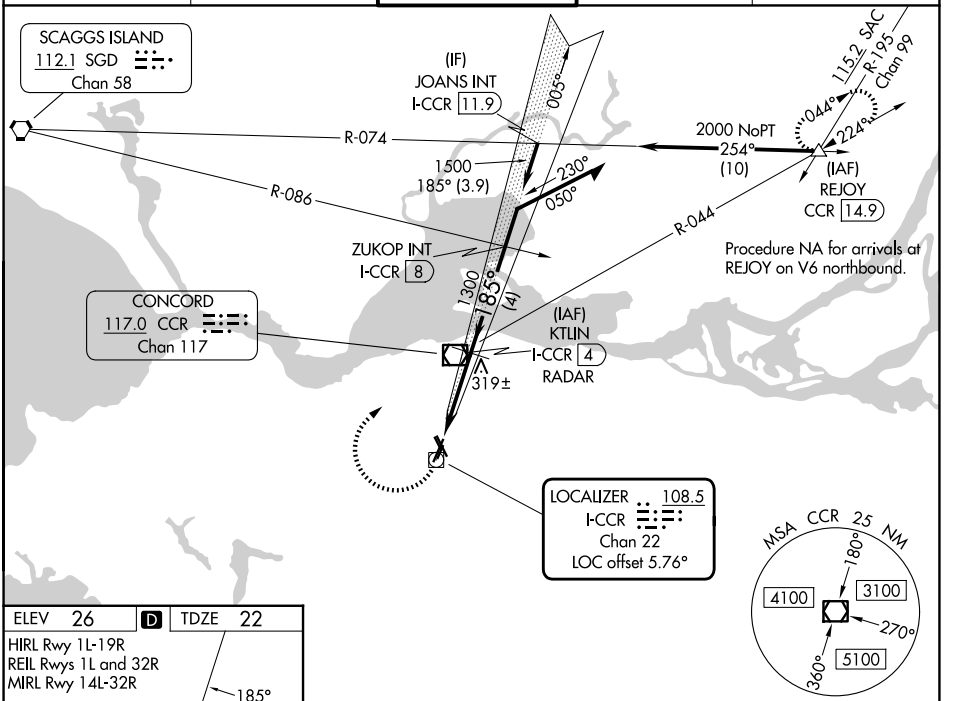
DME required.

Circling NA west of Rwy 1L-19R. Circling Rwy 1L, 1R, 19L, 32L, 32R NA at night. Rwy 19R helicopter visibility reduction below ¾ SM NA. For inop ALS, increase S-19R Cats C/D visibility to 2 SM.
*For inop ALS, increase S-19R Cats C/D visibility to 1⅛ SM.

MALS

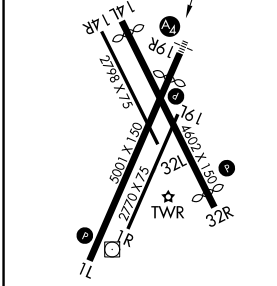
MISSED APPROACH: Climbing right turn to 3000 direct CCR VOR/DME then on CCR VOR/DME R-044 to REJOY/CCR 14.9 DME and hold.
*Missed approach requires minimum climb of 282 feet per NM to 1800.

ATIS	TRAVIS APP CON	CONCORD TOWER*	GND CON	UNICOM
124.7	119.9 322.325	119.7 (CTAF) 257.8	121.9	122.95



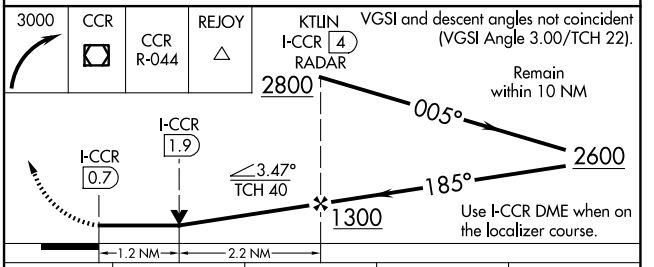
ELEV 26 D TDZE 22

HIRL Rwy 1L-19R
REIL Rwy 1L and 32R
MIRL Rwy 14L-32R



FAF to MAP 3.4 NM

Knots	60	90	120	150	180
Min:Sec	3:24	2:16	1:42	1:22	1:08



CATEGORY	A	B	C	D
S-19R*	440-¾ 418 (500-¾)		440-1 418 (500-1)	
S-19R	780-¾ 758 (800-¾)	780-1 758 (800-1)	780-1⅞ 758 (800-1⅞)	
CIRCLING	780-1 754 (800-1)	780-1¼ 754 (800-1¼)	960-2¾ 934 (1000-2¾)	1300-3 1274 (1300-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

CONCORD, CALIFORNIA | AL-5320 (FAA) | 26022

VOR RWY 19R
BUCHANAN FLD (CCR)

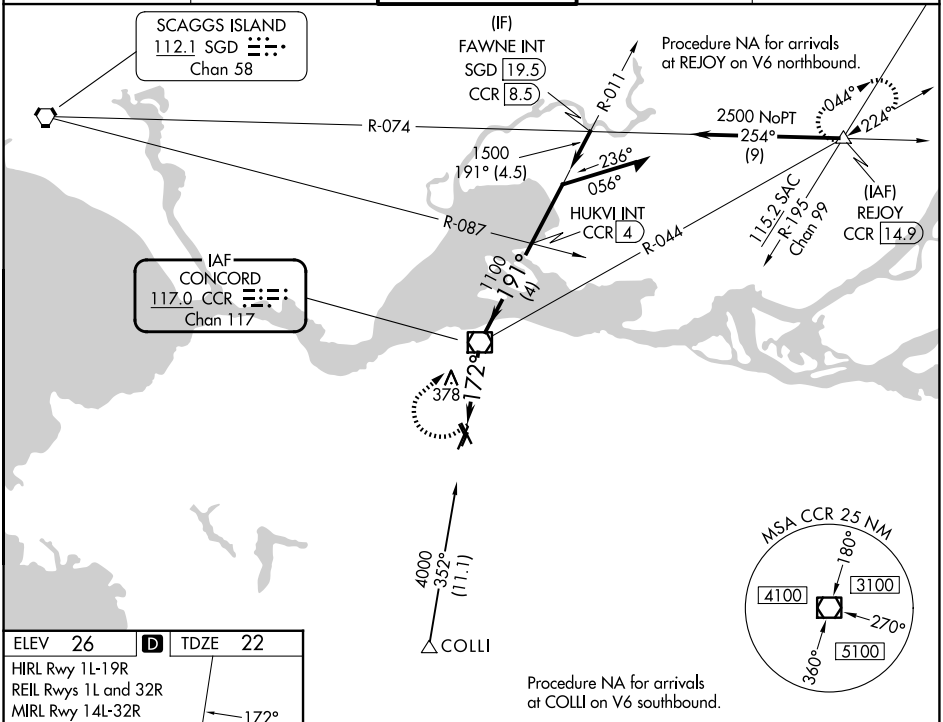
VOR/DME CCR	APP CRS	Rwy Ldg	4400
117.0	172°	TDZE	22
Chan 117		Apt Elev	26

T Inop table does not apply. Circling NA west of Rwy 1L-19R. Circling Rwy 1L, 1R, 19L, 32L, 32R NA at night. Rwy 19R helicopter visibility reduction below ¾ SM NA. DME required.

MALS

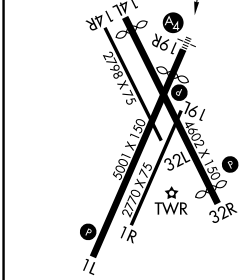
MISSED APPROACH: Climbing right turn to 3000 direct CCR VOR/DME then on CCR VOR/DME R-044 to REJOY/CCR 14.9 DME and hold.
* Missed approach requires minimum climb of 320 feet per NM to 1700.

ATIS	TRAVIS APP CON	CONCORD TOWER*	GND CON	UNICOM
124.7	119.9 322.325	119.7 (CTAF) 257.8	121.9	122.95

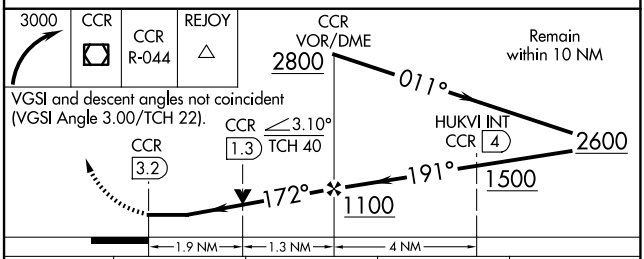


ELEV 26 | D | TDZE 22

HIRL Rwy 1L-19R
REIL Rwys 1L and 32R
MIRL Rwy 14L-32R



FAF to MAP 3.2 NM					
Knots	60	90	120	150	180
Min:Sec	3:12	2:08	1:36	1:17	1:04



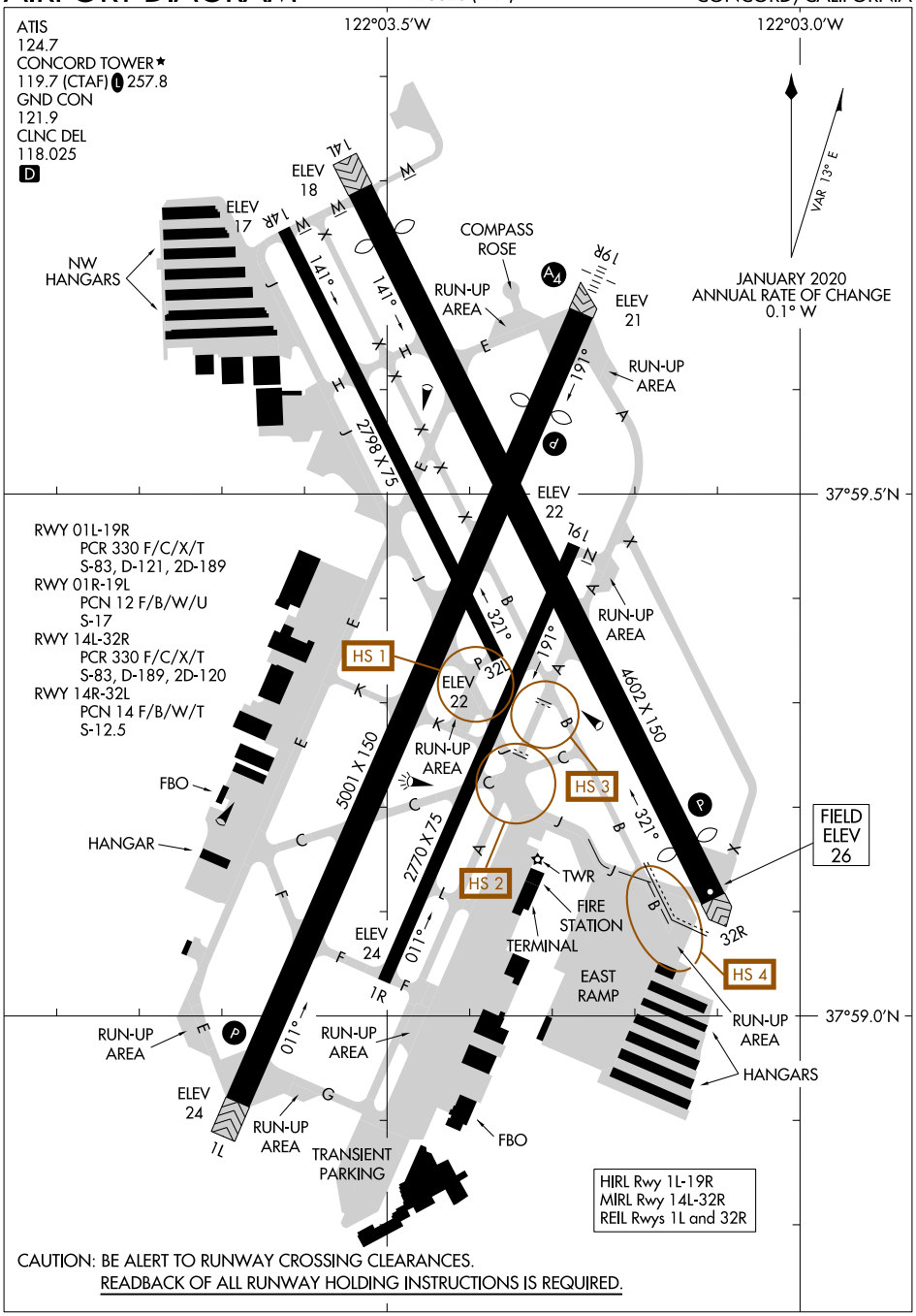
CATEGORY	A	B	C	D
S-19R*	640-1 618 (700-1)		640-1¾ 618 (700-1¾)	
S-19R	1020-1¼ 998 (1000-1¼)	1020-1½ 998 (1000-1½)	1020-3 998 (1000-3)	
CIRCLING	1020-1¼ 994 (1000-1¼)	1020-1½ 994 (1000-1½)	1020-3 994 (1000-3)	NA

CONCORD, CALIFORNIA
Amdt 14B 14JUL22

37°59'N-122°03'W

BUCHANAN FLD (CCR)
VOR RWY 19R

SW-2, 09 JUL 2026 to 03 SEP 2026



AIRPORT DIAGRAM
26134
CONCORD, CALIFORNIA
BUCHANAN FLD (CCR)

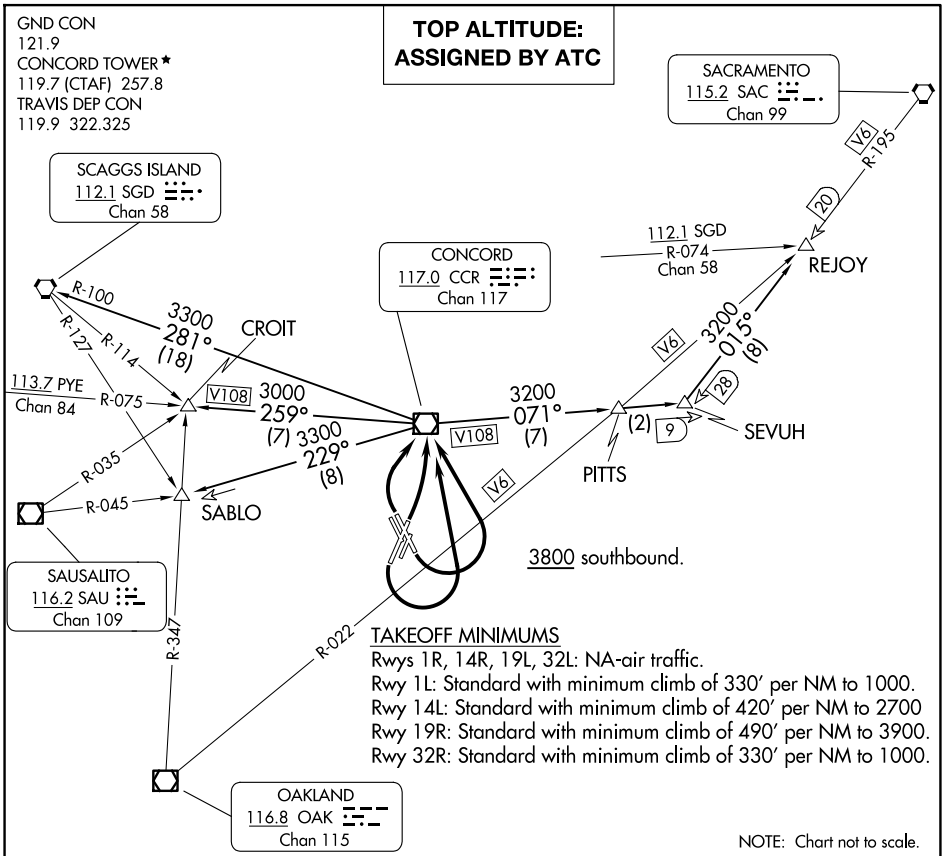
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(BCHN2.CCR) 23334

BUCHANAN TWO DEPARTURE

AL-5320 (FAA)

BUCHANAN FLD (CCR)
CONCORD, CALIFORNIA



TAKEOFF MINIMUMS

Rwys 1R, 14R, 19L, 32L: NA-air traffic.
Rwy 1L: Standard with minimum climb of 330′ per NM to 1000.
Rwy 14L: Standard with minimum climb of 420′ per NM to 2700
Rwy 19R: Standard with minimum climb of 490′ per NM to 3900.
Rwy 32R: Standard with minimum climb of 330′ per NM to 1000.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L, 14L, 19R: Climbing left turn direct CCR VOR/DME, thence. . . .

TAKEOFF RUNWAY 32R: Climbing right turn direct CCR VOR/DME, thence. . . .

. . . .on (transition) or (assigned route).

CROIT TRANSITION (BCHN2.CROIT): From over CCR VOR/DME on CCR R-259 to CROIT INT.

PITTS TRANSITION (BCHN2.PITTS): From over CCR VOR/DME on CCR R-071 to PITTS INT.

REJOY TRANSITION (BCHN2.REJOY): From over CCR VOR/DME on CCR R-071 and SAC R-195 to REJOY INT.

SABLO TRANSITION (BCHN2.SABLO): From over CCR VOR/DME on CCR R-229 to SABLO INT.

SCAGGS ISLAND TRANSITION (BCHN2.SGD): From over CCR VOR/DME on CCR R-281 and SGD R-100 to SGD VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC I-CEC	APP CRS	Rwy Ldg	5002
108.7	119°	TDZE	60
		Apt Elev	61

ILS or LOC RWY 12

JACK MC NAMARA FLD (CEC)

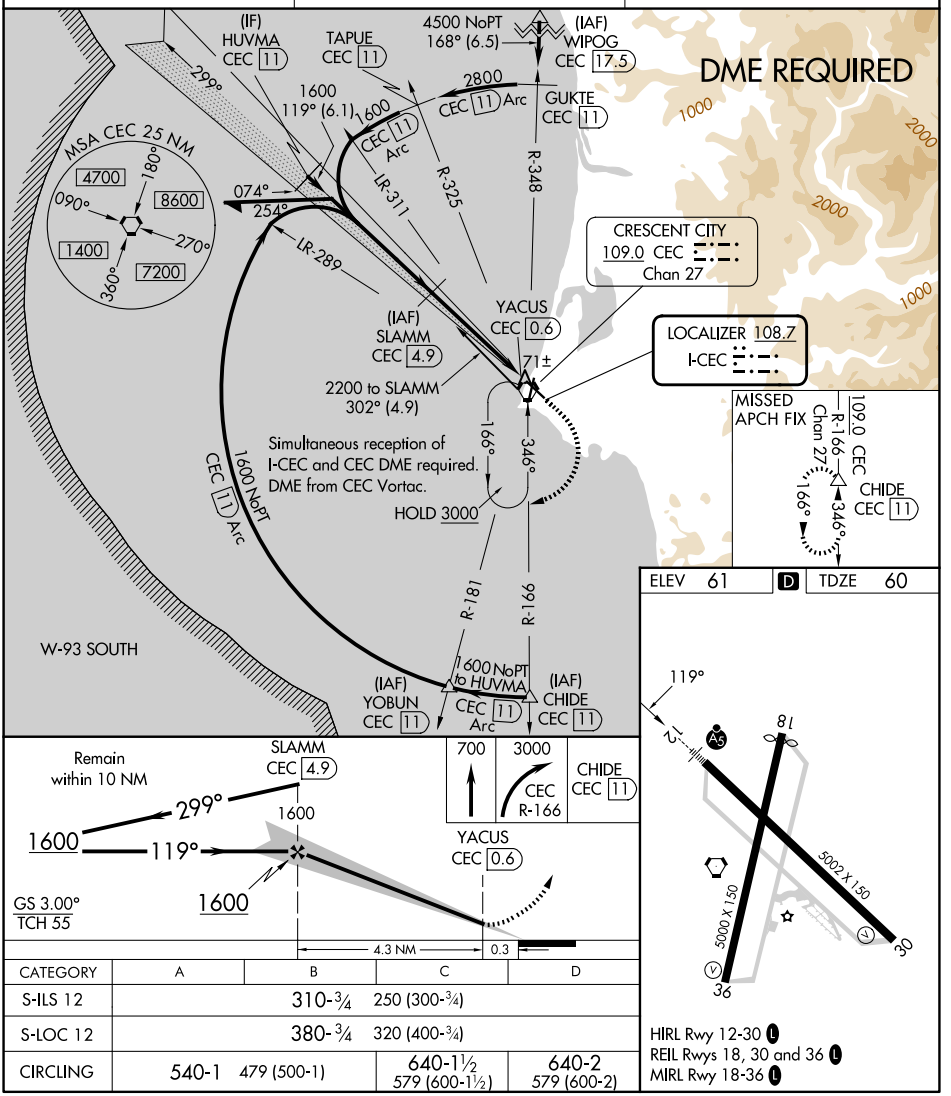
T
NA

DME required. S-ILS 12:½ mile visibility authorized with use of FD or AP or HUD to DA. Inop table does not apply to S-ILS 12, except with use of FD or AP or HUD to DA. For inop MALSR, increase S-LOC 12 all Cats visibility ¼ mile. When local altimeter setting not received, use Brookings altimeter setting and increase DA to 407 feet and all MDA 100 feet; increase S-LOC 12 Cat C/D, and Circling Cat D visibilities ¼ mile. For inop MALSR, when using Brookings altimeter setting, increase S-ILS 12 all Cats visibility to 1 mile. Night Landing: Rwy 36 operational VGSI required, remain on or above VGSI glidepath until threshold. Circling to Rwy 18, 30 NA at night.

MALSR

MISSED APPROACH: Climb to 700 then climbing right turn to 3000 on CEC VORTAC R-166 to CHIDE/CEC 11 DME and hold, continue climb-in-hold to 3000.

ASOS	SEATTLE CENTER	UNICOM
119.925	124.85 306.3	122.8 (CTAF) L



CATEGORY	A	B	C	D
S-ILS 12		310-¾	250 (300-¾)	
S-LOC 12		380-¾	320 (400-¾)	
CIRCLING	540-1	479 (500-1)	640-1½ 579 (600-1½)	640-2 579 (600-2)

HIRL Rwy 12-30 L
REIL Rwys 18, 30 and 36 L
MIRL Rwy 18-36 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	5002
CH 90310	119°	TDZE	60
W12A		Apt Elev	61

RNAV (GPS) RWY 12

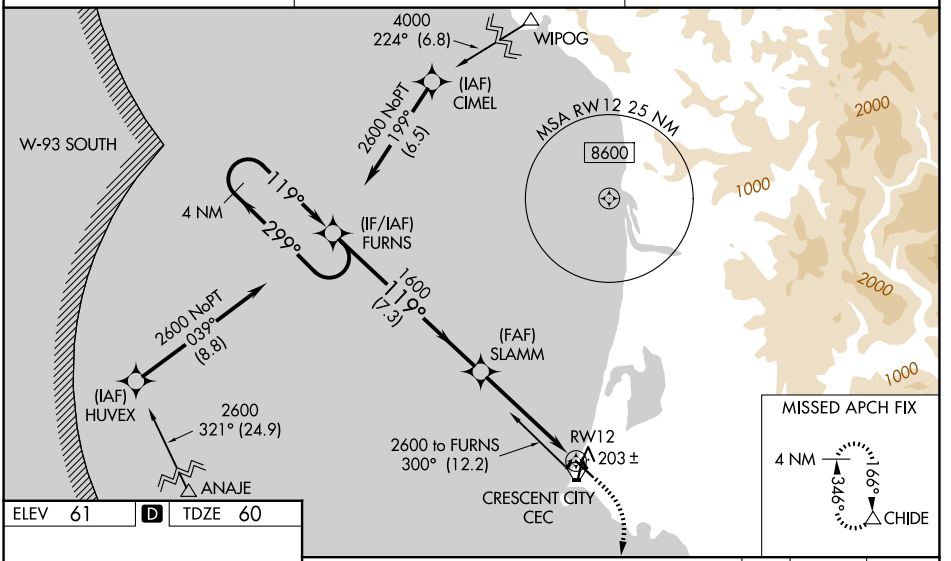
JACK MC NAMARA FLD (CEC)

Inop table does not apply to LPV all Cats. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C (32°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Brookings altimeter setting and increase LPV DA to 407 feet, LNAV/VNAV DA to 484 feet and all MDA 100 feet; increase LPV all Cats visibility to ⅞ mile, LNAV/VNAV all Cats visibility to 1⅛ mile, LNAV Cat C/D to 1⅛ mile, and Circling Cat C to 2 miles, Cat D to 2¼ miles. For inop MALSR, increase LNAV/VNAV all Cats visibility to 1 mile and LNAV Cat A/B visibility to 1 mile, Cat C/D to 1⅛ mile. For inop MALSR, when using Brookings altimeter setting, increase LPV all Cats visibility to 1⅛ mile, LNAV/VNAV all Cats visibility to 1⅜ mile, and LNAV Cat A/B to 1 mile, Cat C/D to 1¾ mile. VDP and Baro-VNAV NA when using Brookings altimeter setting. Night landing: Rwy 18, 30 NA. Night landing: Rwy 36, operational VGSI required, remain on or above VGSI glidepath until threshold.

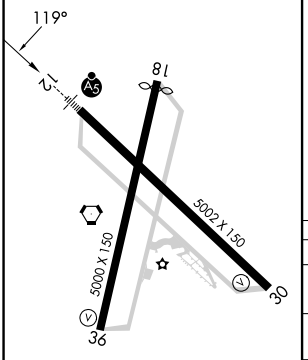
MALSR (A5)

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct CHIDE and hold, continue climb-in-hold to 3000.

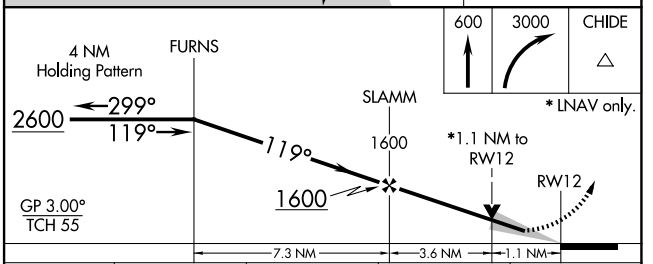
ASOS	SEATTLE CENTER	UNICOM
119.925	124.85 306.3	122.8 (CTAF) L



ELEV 61 D TDZE 60



HIRL Rwy 12-30 L
REIL Rwys 18, 30 and 36 L
MIRL Rwy 18-36 L



CATEGORY	A	B	C	D
LPV DA	310-¾	250 (300-¾)		
LNAV/VNAV DA	387-¾	327 (400-¾)		
LNAV MDA	460-¾	400 (400-¾)	460-⅞	400 (400-⅞)
CIRCLING	540-1	479 (500-1)	640-1½ 579 (600-1½)	640-2 579 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 72927 W36A	APP CRS 359°	Rwy Ldg 4850 TDZE 59 Apt Elev 61

RNAV (GPS) RWY 36

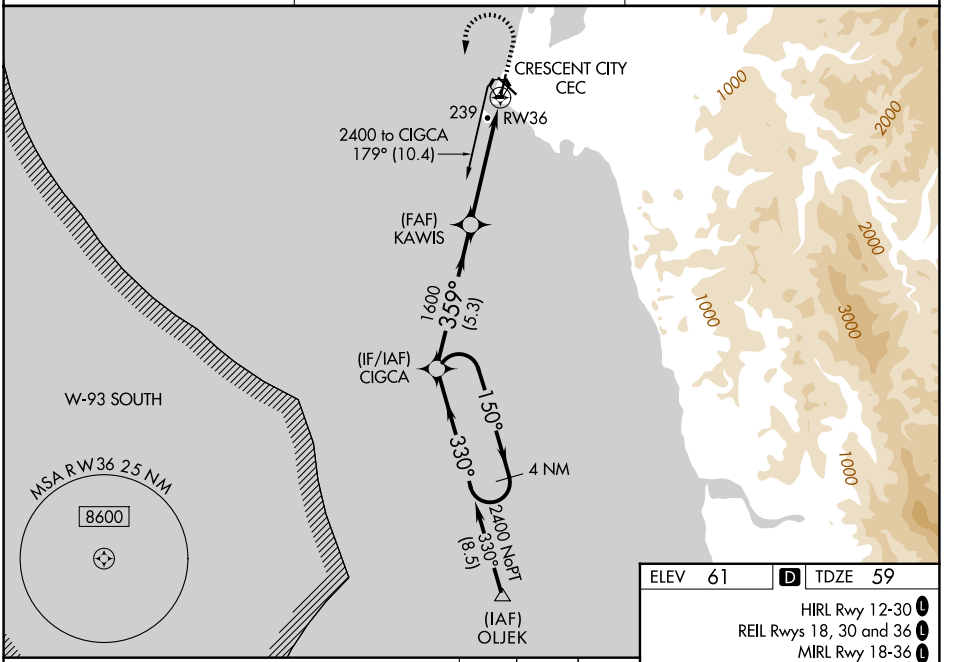
JACK MC NAMARA FLD (CEC)

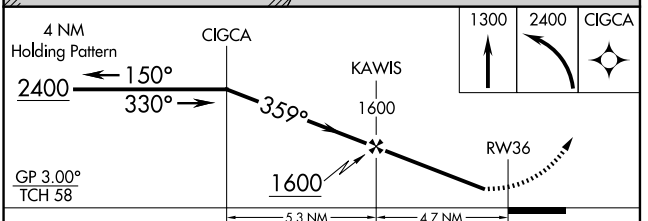
RNP APCH.

Baro-VNAV NA when using Brookings altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. When local altimeter setting not received, use Brookings altimeter setting and increase LPV DA to 406 and LNAV/VNAV DA to 505 and all MDA 100 feet; increase LPV all Cats and LNAV Cat C/D and Circling Cat D visibilities ¼ SM, increase LNAV/VNAV all Cats visibility ⅜ SM, and Circling Cat C visibility ½ SM. Rwy 36 helicopter visibility reduction below 1 SM NA. Straight-In Rwy 36 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Circling Rwy 18, 30 NA at night.

MISSED APPROACH: Climb to 1300 then climbing left turn to 2400 direct CIGCA and hold.

ASOS	SEATTLE CENTER	UNICOM
119.925	124.85 306.3	122.8 (CTAF) L

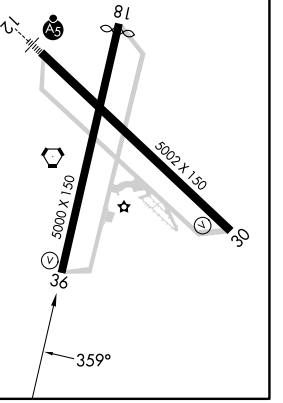




CATEGORY	A	B	C	D
LPV DA	309-1 250 (300-1)			
LNAV/VNAV DA	408-1⅛ 349 (400-1⅛)			
LNAV MDA	500-1 441 (500-1)		500-1⅜ 441 (500-1⅜)	
CIRCLING	540-1 479 (500-1)		640-1½ 579 (600-1½)	640-2 579 (600-2)

ELEV 61 D TDZE 59

HIRL Rwy 12-30 L
REIL Rwys 18, 30 and 36 L
MIRL Rwy 18-36 L



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VORTAC CEC	APP CRS	Rwy Ldg	5002
109.0	131°	TDZE	60
Chan 27		Apt Elev	61

VOR/DME RWY 12

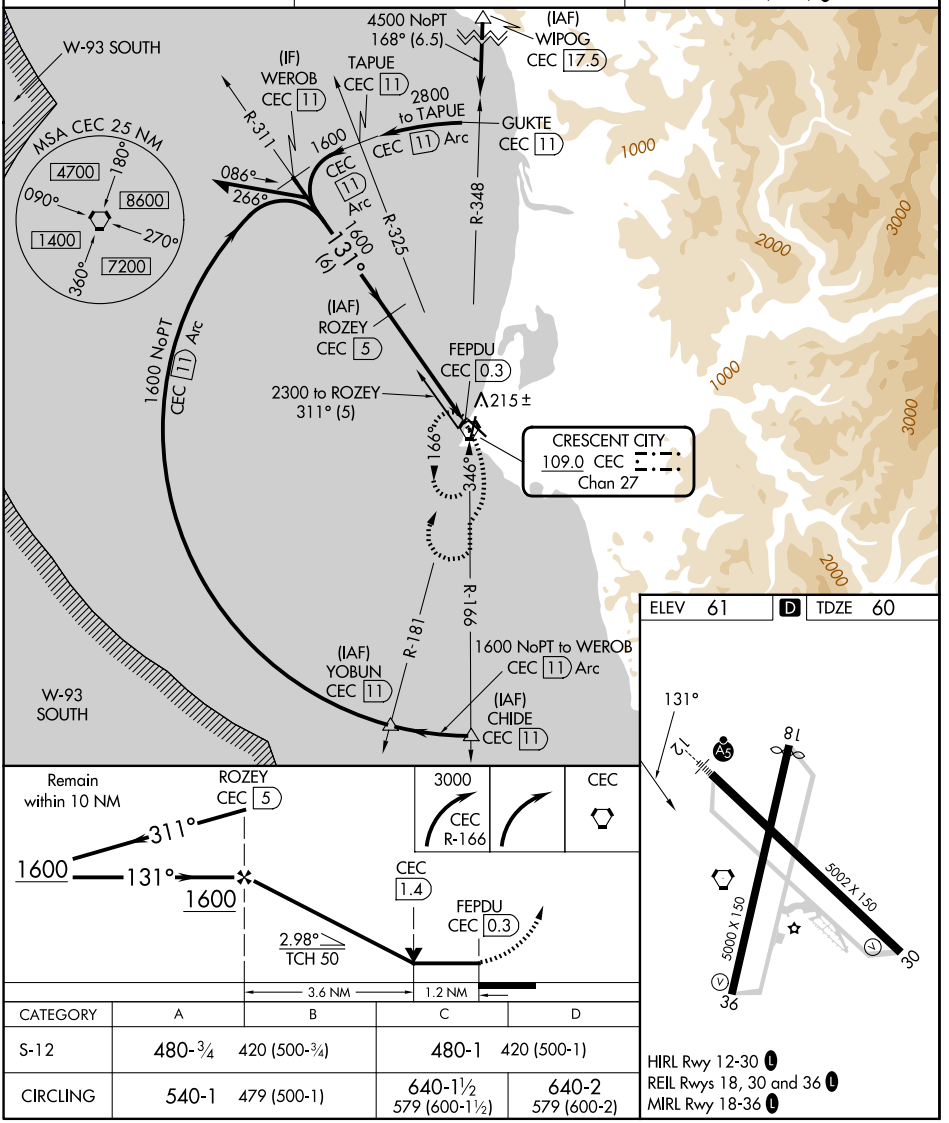
JACK MC NAMARA FLD (CEC)

VDP NA with Brookings altimeter setting. When local altimeter setting not received, use Brookings altimeter setting and increase all MDA 100 feet; increase S-12 Cat C/D, and Circling Cat D visibility ¼ mile, and Circling Cat C visibility ½ mile. For inop MALSR, increase S-12 Cats A/B visibility to 1 mile, Cats C/D visibility to 1⅛ mile. For inop MALSR when using Brookings altimeter setting, increase S-12 Cats A/B visibility to 1 mile, Cats C/D visibility to 1⅜ mile. Night Landing: Rwy 18, 30 NA. Night Landing: Rwy 36 operational VGSI required, remain on or above VGSI glidepath until threshold.

MALSR

MISSED APPROACH: Climbing right turn to 3000 on CEC VORTAC R-166 then right turn direct CEC VORTAC and hold.

ASOS	SEATTLE CENTER	UNICOM
119.925	124.85 306.3	122.8 (CTAF) L



CATEGORY	A	B	C	D
S-12	480-¾	420 (500-¾)	480-1	420 (500-1)
CIRCLING	540-1	479 (500-1)	640-1½ 579 (600-1½)	640-2 579 (600-2)

HIRL Rwy 12-30 L
REIL Rwys 18, 30 and 36 L
MIRL Rwy 18-36 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VORTAC CEC	APP CRS	Rwy Ldg	4850
109.0	346°	TDZE	59
Chan 27		Apt Elev	61

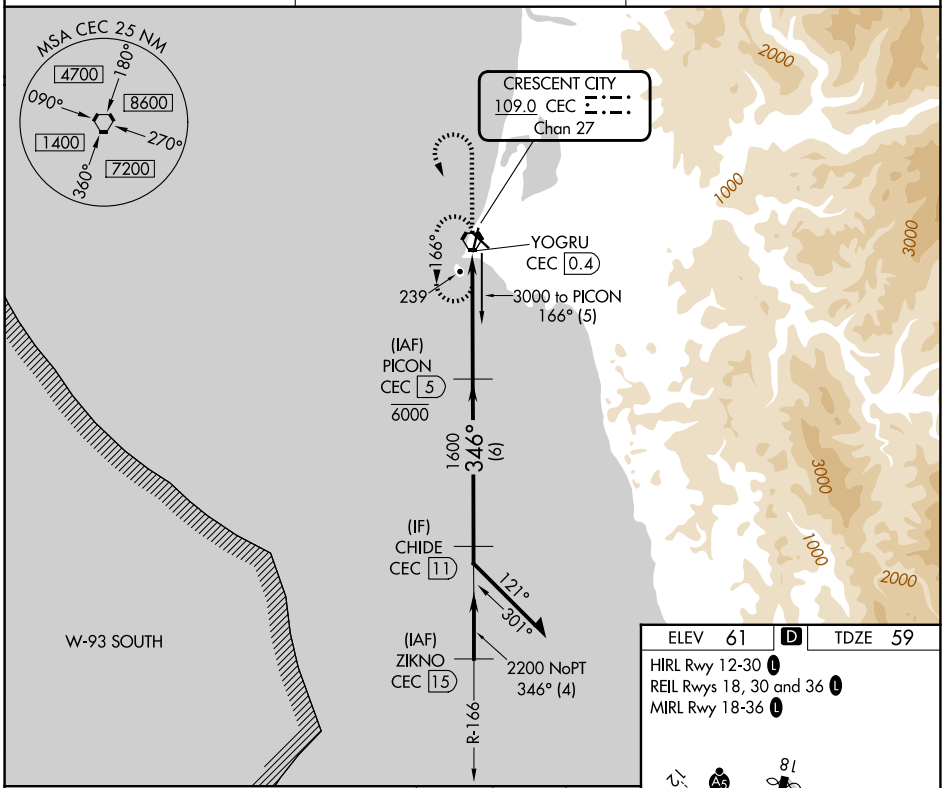
VOR/DME RWY 36

JACK MC NAMARA FLD (CEC)

T A When local altimeter setting not received, use Brookings altimeter setting and increase all MDA 100 feet; increase S-36 Cat C/D and Circling Cat D visibilities ¼ mile and Circling Cat C visibility ½ mile. Helicopter visibility reduction below 1 SM NA. Night landing: Rwy 36 operational VGSI required, remain on or above VGSI glidepath until threshold. Night landing: Rwy 18, 30 NA .

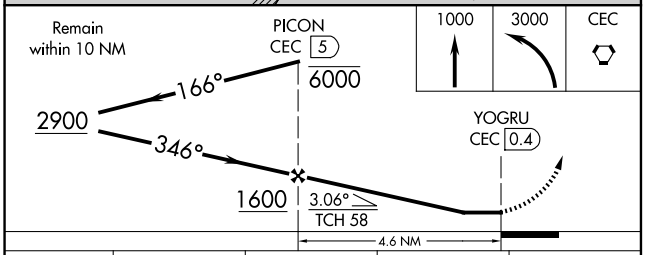
MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct CEC VORTAC and hold, continue climb-in-hold to 3000.

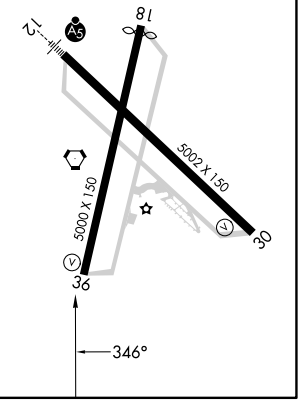
ASOS	SEATTLE CENTER	UNICOM
119.925	124.85 306.3	122.8 (CTAF) L



ELEV 61	D	TDZE 59

HIRL Rwy 12-30 L
REIL Rwys 18, 30 and 36 L
MIRL Rwy 18-36 L





CATEGORY	A	B	C	D
S-36	500-1	441 (500-1)	500-1⅜	441 (500-1⅜)
CIRCLING	540-1	479 (500-1)	640-1½ 579 (600-1½)	640-2 579 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VORTAC CEC	APP CRS	Rwy Ldg	5002
109.0	131°	TDZE	60
Chan 27		Apt Elev	61

VOR RWY 12

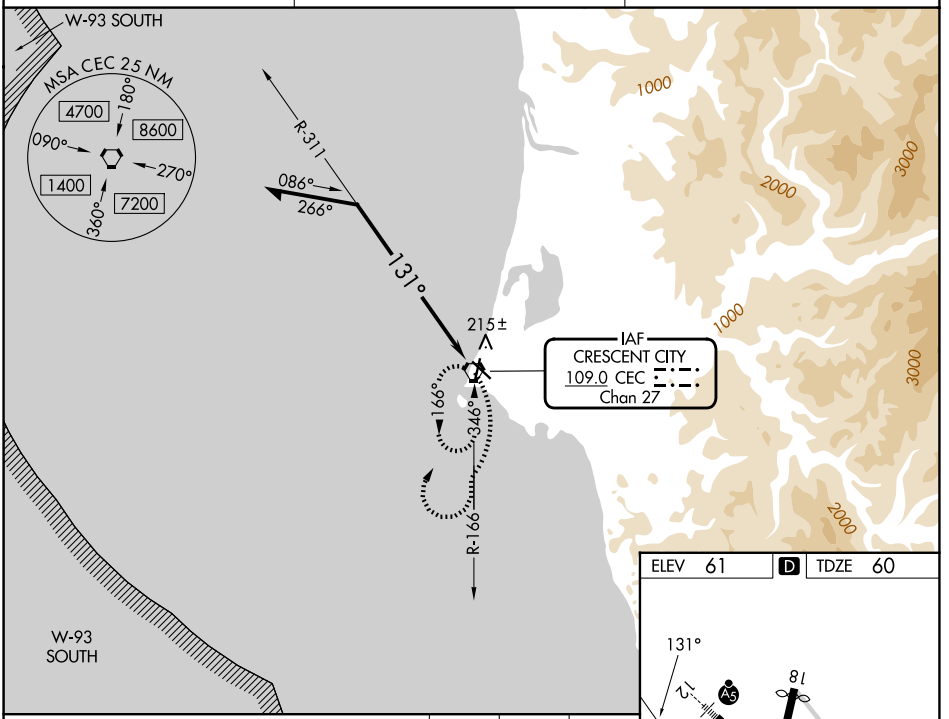
JACK MC NAMARA FLD (CEC)

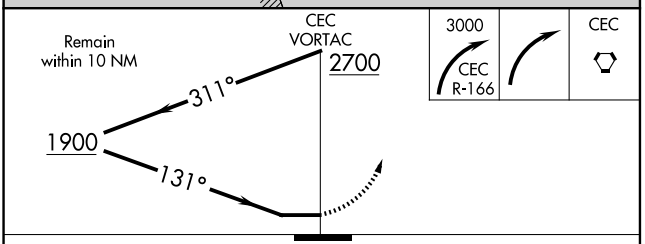
When local altimeter setting not received, use Brookings altimeter setting and increase all MDA 100 feet; increase S-12 Cat C/D visibility ⅜ mile, Circling Cat D visibility ¼ mile and Circling Cat C visibility ½ mile. For inop MALSR increase S-12 Cat A/B visibility to 1 mile, and Cat C/D visibility to 1⅜ mile. For inop MALSR when using Brookings altimeter setting, increase S-12 Cat A/B visibility to 1 mile, and Cat C/D visibility to 1⅝ mile. Night Landing: Rwy 36 operational VGSI required, remain on or above VGSI glidepath until threshold. Night Landing: Rwy 18, 30 NA.

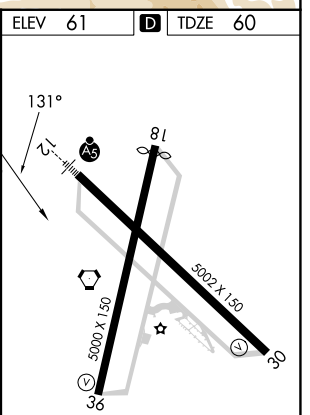
MALSR

MISSED APPROACH: Climbing right turn to 3000 on CEC VORTAC R-166 then right turn direct CEC VORTAC and hold.

ASOS	SEATTLE CENTER	UNICOM
119.925	124.85 306.3	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-12	520-¾	460 (500-¾)	520-1	460 (500-1)
CIRCLING	540-1	479 (500-1)	640-1½ 579 (600-1½)	640-2 579 (600-2)

HIRL Rwy 12-30 L
MIRL Rwy 18-36 L
REIL Rwys 18, 30 and 36 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Idg	3176
167°	TDZE	70
	Apt Elev	70

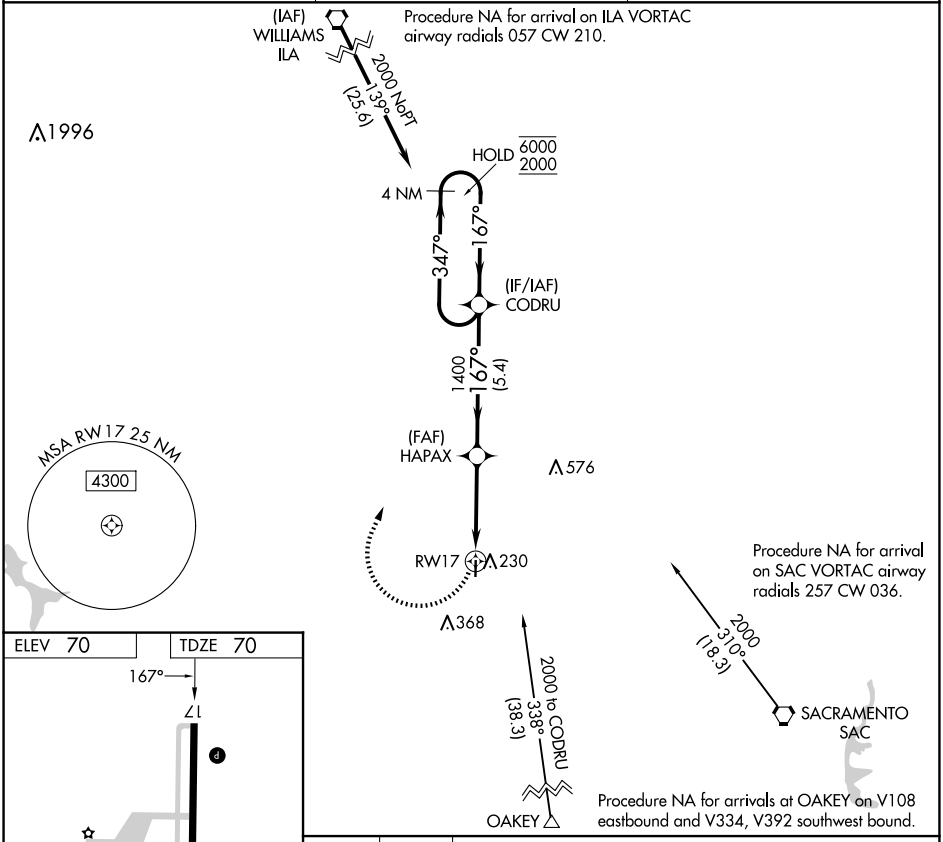
RNAV (GPS) RWY 17
UNIVERSITY (EDU)

RNP APCH - GPS.

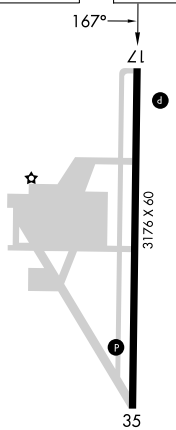
Rwy 17 helicopter visibility reduction below 1 SM NA. Procedure NA at night.

MISSED APPROACH: Climbing right turn to 2000 direct CODRU and hold.

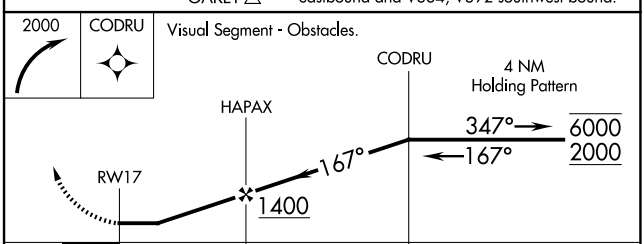
AWOS-3	TRAVIS APP CON	UNICOM
119.025	126.6 281.45	123.075 (CTAF)



ELEV 70	TDZE 70



MIRL Rwy 17-35
REIL Rwys 17 and 35



CATEGORY	A	B	C	D
LNAV MDA	520-1 450 (500-1)		NA	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

DAVIS, CALIFORNIA AL-6030 (FAA) 24249

WAAS	APP CRS	Rwy Idg	3176
CH 73046	347°	TDZE	70
W35A		Apt Elev	70

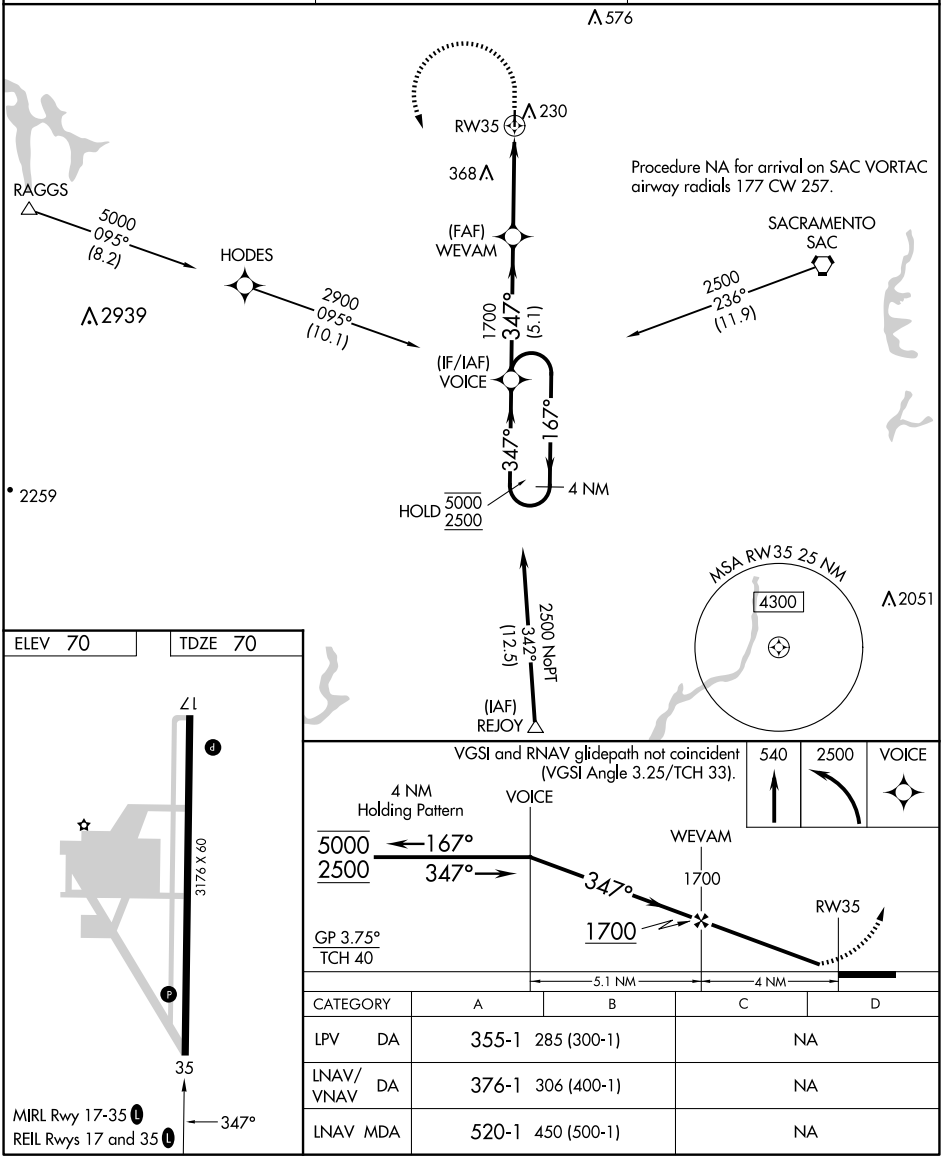
RNAV (GPS) RWY 35
UNIVERSITY (EDU)

RNP APCH - GPS.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. Procedure NA at night. Rwy 35 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 540, then climbing left turn to 2500 direct VOICE and hold, continue climb-in-hold to 2500.

AWOS-3	TRAVIS APP CON	UNICOM
119.025	126.6 281.45	123.075 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	355-1	285 (300-1)	NA	
LNAV/VNAV DA	376-1	306 (400-1)	NA	
LNAV MDA	520-1	450 (500-1)	NA	

DAVIS, CALIFORNIA
Orig 05SEP24

38°32'N-121°47'W

UNIVERSITY (EDU)
RNAV (GPS) RWY 35

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH **99719** **W16A**	APP CRS **164°**	Rwy Ldg **6000** TDZE **99** Apt Elev **100**

RNAV (GPS) RWY 16

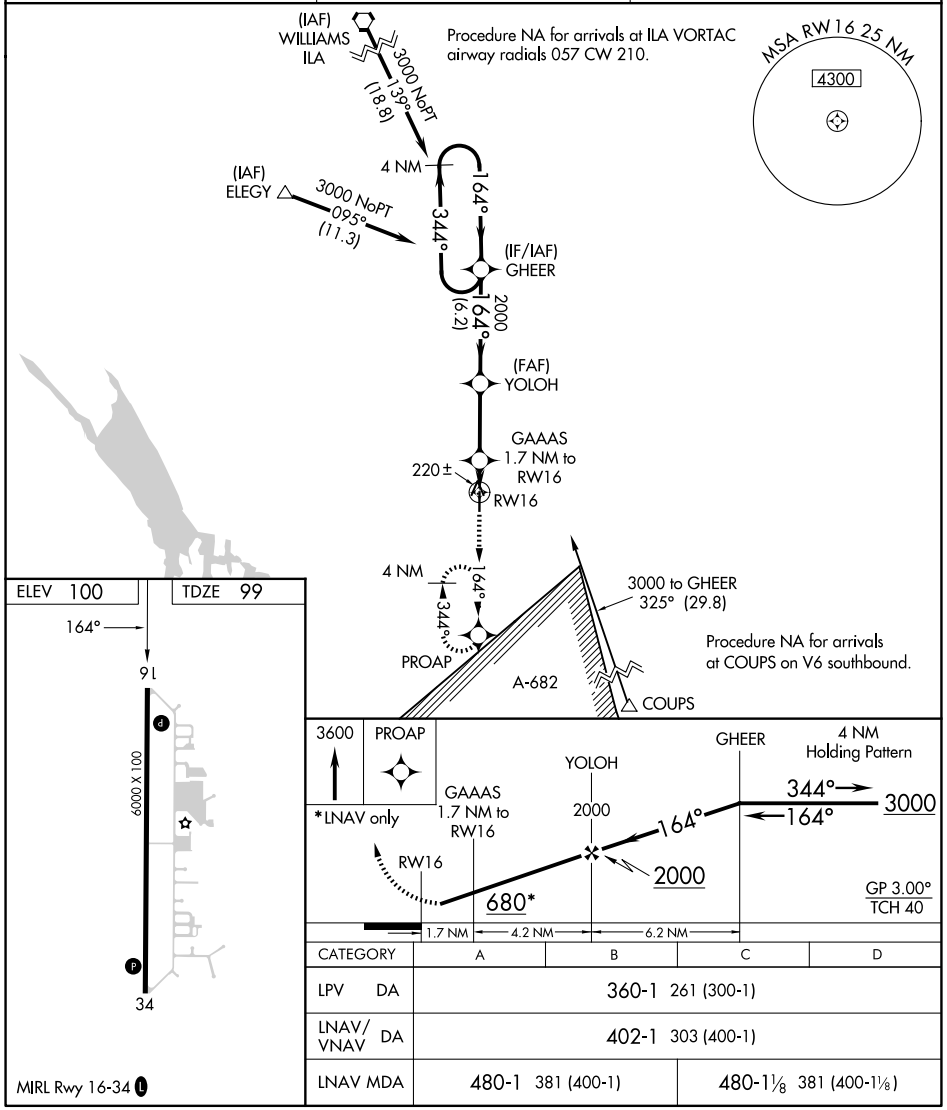
YOLO COUNTY (DWA)

RNP APCH.

T NA When local altimeter setting not received, use Travis AFB altimeter setting and increase all DA 50 feet and all MDA 60 feet, and increase LNAV/VNAV all Cats and LNAV Cat C and D visibility ¼ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). Baro-VNAV NA when using Travis AFB altimeter setting.

MISSED APPROACH: Climb to 3600 direct PROAP and hold, continue climb-in-hold to 3600.

AWOS-3P	TRAVIS APP CON	UNICOM
125.775	**126.6 281.45**	**123.0** (CTAF) L



CATEGORY	A	B	C	D
LPV DA	360-1 261 (300-1)			
LNAV/VNAV DA	402-1 303 (400-1)			
LNAV MDA	480-1 381 (400-1)		480-1⅛ 381 (400-1⅛)	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

DAVIS/WOODLAND/WINTERS, CALIFORNIA AL-6512 (FAA) 26134

RNAV (GPS) RWY 34

YOLO COUNTY (DWA)

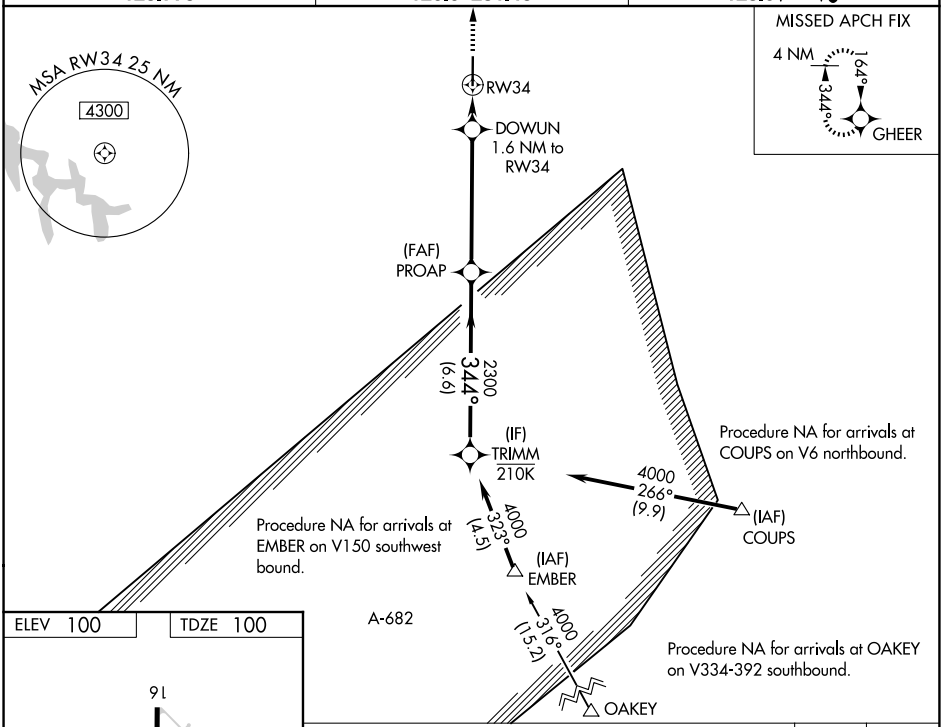
WAAS CH 58319 W34A	APP CRS 344°	Rwy Ldg 6000 TDZE 100 Apt Elev 100

RNP APCH - GPS.

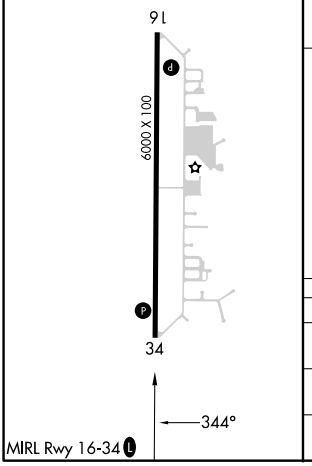
T Rwy 34 helicopter visibility reduction below ¾ SM NA. Baro-VNAV NA when using SUU altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. When local altimeter setting not received, use SUU altimeter setting and increase LPV DA to 465 feet and all visibilities ⅛ SM. Increase LNAV/VNAV DA to 550 feet and all visibilities ¼ SM. Increase all MDAs 60 feet and LNAV visibility Cat C/D ¼ SM.

MISSED APPROACH: Climb to 3000 direct GHEER and hold, continue climb-in-hold to 3000.

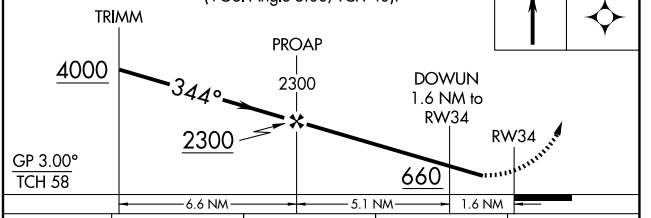
AWOS-3P	TRAVIS APP CON	UNICOM
125.775	126.6 281.45	123.0 (CTAF) L



ELEV 100 TDZE 100



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 40).



CATEGORY	A	B	C	D
LPV DA	415-1 315 (400-1)			
LNAV/VNAV DA	500-1⅛ 400 (400-1⅛)			
LNAV MDA	500-1 400 (400-1)		500-1⅛ 400 (400-1⅛)	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	3011
115°	TDZE	11
	Apt Elev	11

RNAV (GPS) RWY 12

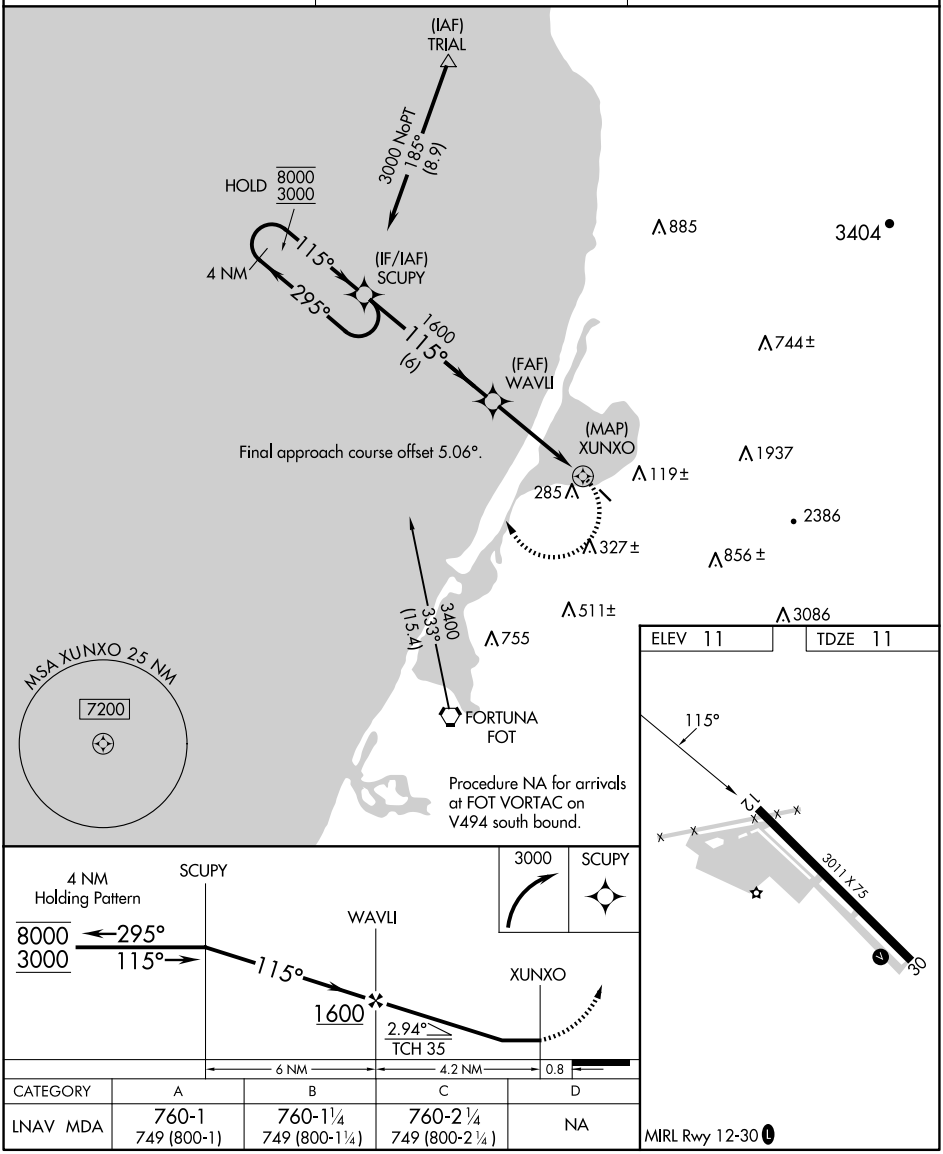
MURRAY FLD (EKA)

RNP APCH.

T NA Procedure NA at night. Rwy 12 helicopter visibility reduction below 1 SM NA. Use Arcata altimeter setting, when not received use Crescent City altimeter setting and increase all MDA 100 feet and increase LNAV Cat C visibility ¼ SM.

MISSED APPROACH: Climbing right turn to 3000 direct SCUPY and hold.

ACV ASOS	SEATTLE CENTER	UNICOM
118.525	124.85 306.3	122.7 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	760-1 749 (800-1)	760-1¼ 749 (800-1¼)	760-2¼ 749 (800-2¼)	NA

MIRL Rwy 12-30 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

EUREKA, CALIFORNIA | AL-5888 (FAA) | 25163

APP CRS	Rwy Ldg	N/A
020°	TDZE	N/A
	Apt Elev	11

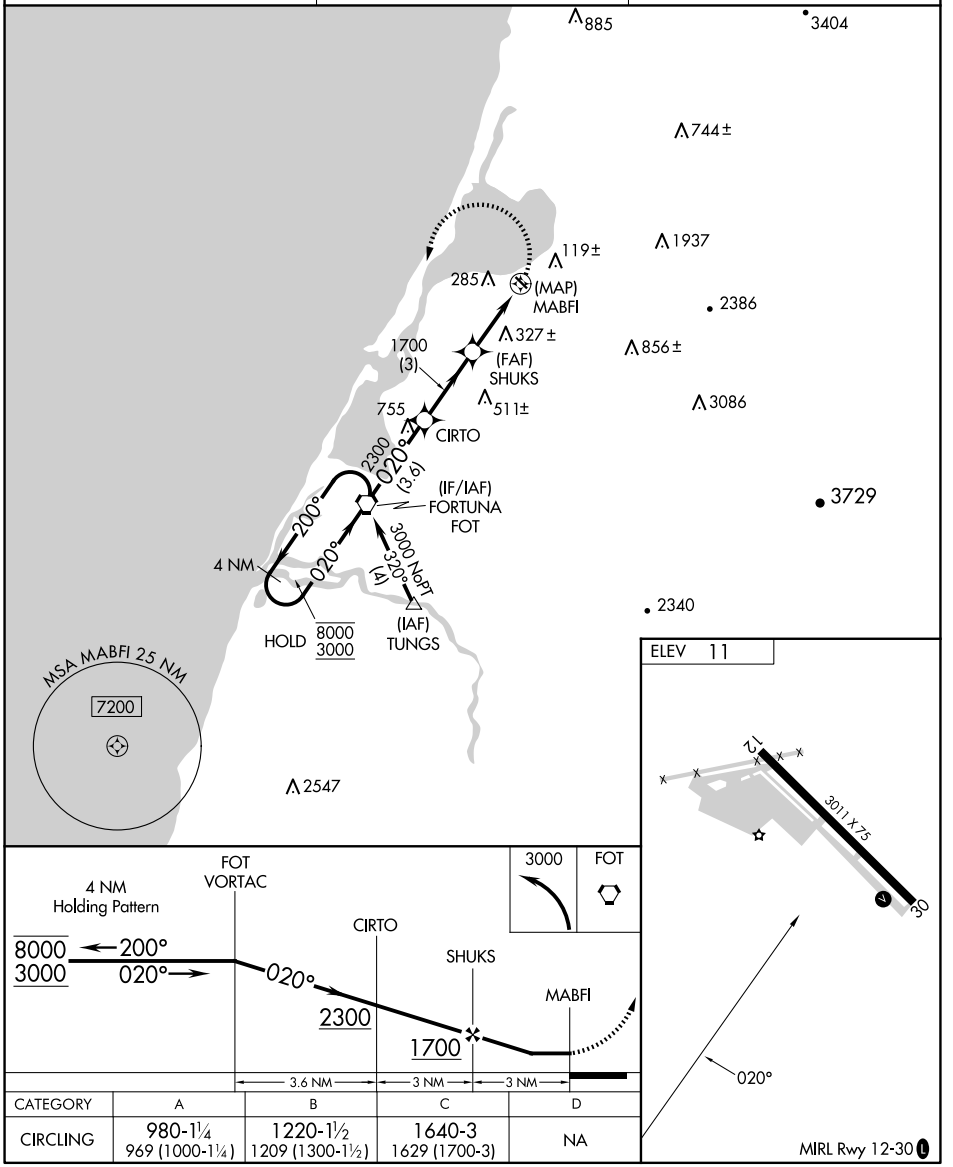
RNAV (GPS)-B
MURRAY FLD (EKA)

RNP APCH-GPS.

T NA Procedure NA at night. Use Arcata altimeter setting when not received, use Crescent City altimeter setting and increase all MDA 100 feet. Circling Cat C NA when using Crescent City altimeter. Rwy 12, 30 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 3000 direct FOT VORTAC and hold.

ACV ASOS	SEATTLE CENTER	UNICOM
118.525	124.85 306.3	122.7 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	980-1¼ 969 (1000-1¼)	1220-1½ 1209 (1300-1½)	1640-3 1629 (1700-3)	NA

MIRL Rwy 12-30 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS)-B

FIREBAUGH (F34)

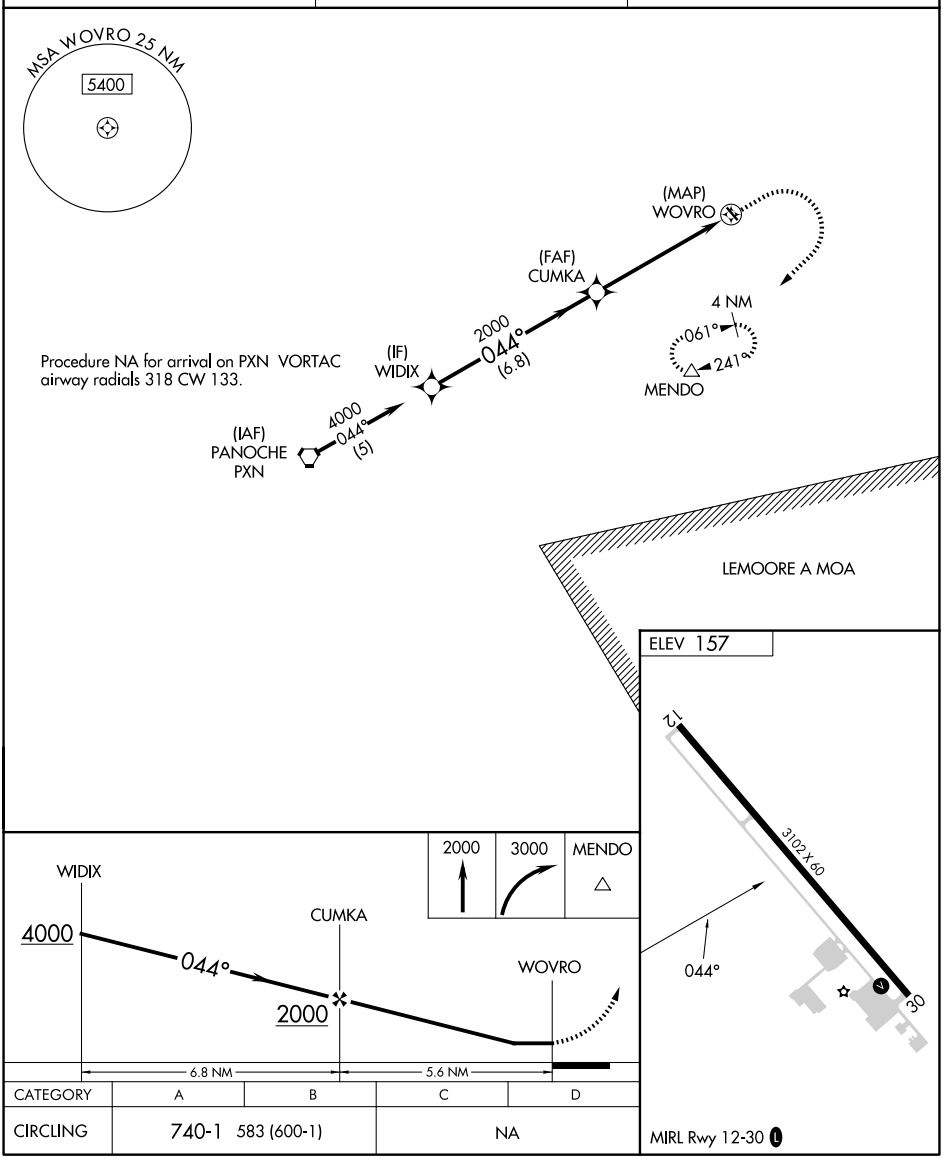
APP CRS	Rwy Ldg	N/A
044°	TDZE	N/A
	Apt Elev	157

RNP APCH.

NA Procedure NA at night. Use Madera altimeter setting, when not received, use Merced Yosemite Rgnl altimeter setting.

MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct MENDO and hold.

MAE ASOS	NORCAL APP CON	CTAF
134.725	120.95 269.45	122.9 L



CATEGORY	A	B	C	D
CIRCLING	740-1 583 (600-1)		NA	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

FORTUNA, CALIFORNIA | AL-960 (FAA) | 25051

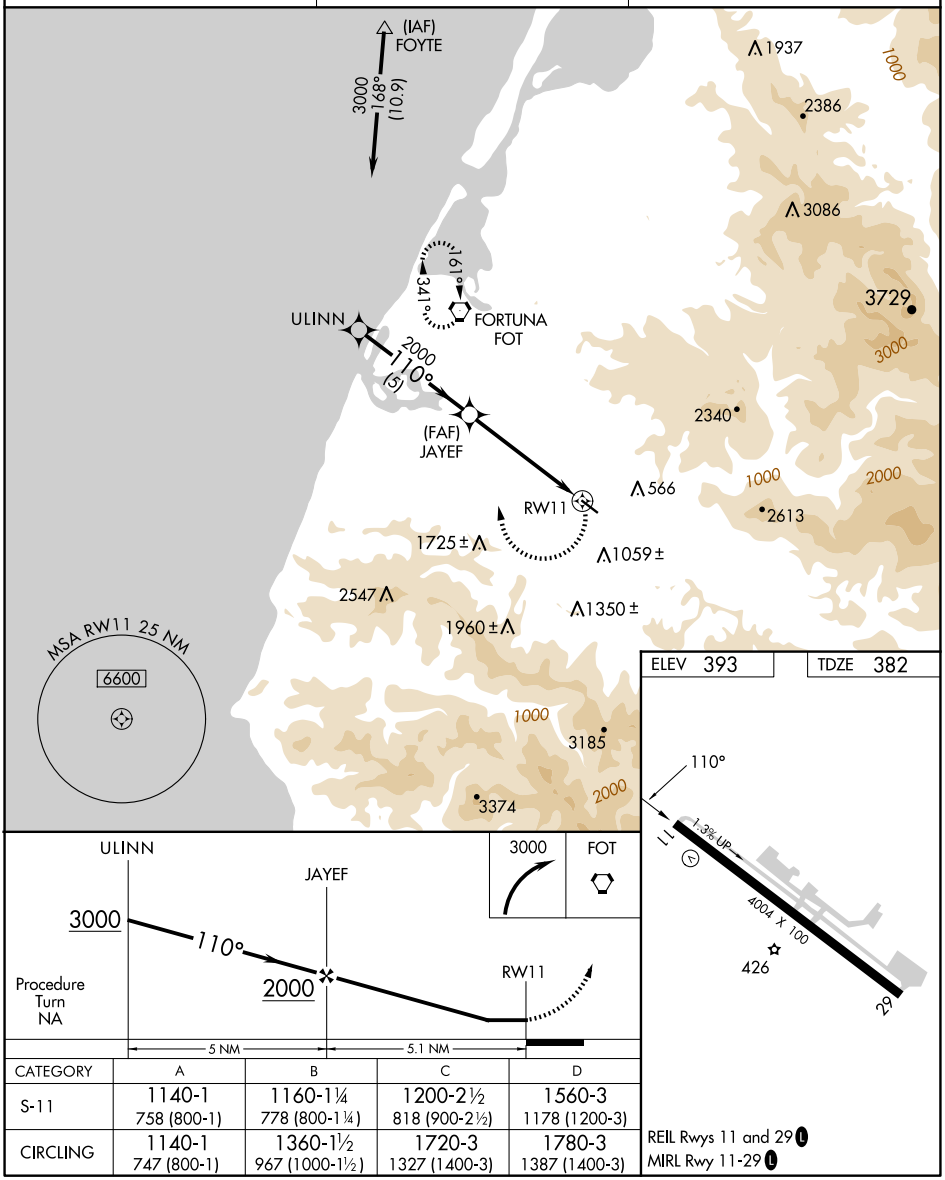
APP CRS	Rwy Idg	4004
110°	TDZE	382
	Apt Elev	393

GPS RWY 11
ROHNERVILLE (FOT)

When local altimeter setting not received, use Arcata altimeter setting. Circling NA for Cat D north of Rwy 11-29.

MISSED APPROACH: Climbing right turn to 3000 direct FOT VORTAC and hold.

AWOS-3	SEATTLE CENTER	CTAF
133.8	124.85 306.3	122.9 L



CATEGORY	A	B	C	D
S-11	1140-1 758 (800-1)	1160-1¼ 778 (800-1¼)	1200-2½ 818 (900-2½)	1560-3 1178 (1200-3)
CIRCLING	1140-1 747 (800-1)	1360-1½ 967 (1000-1½)	1720-3 1327 (1400-3)	1780-3 1387 (1400-3)

REIL Rwys 11 and 29 L
MIRL Rwy 11-29 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

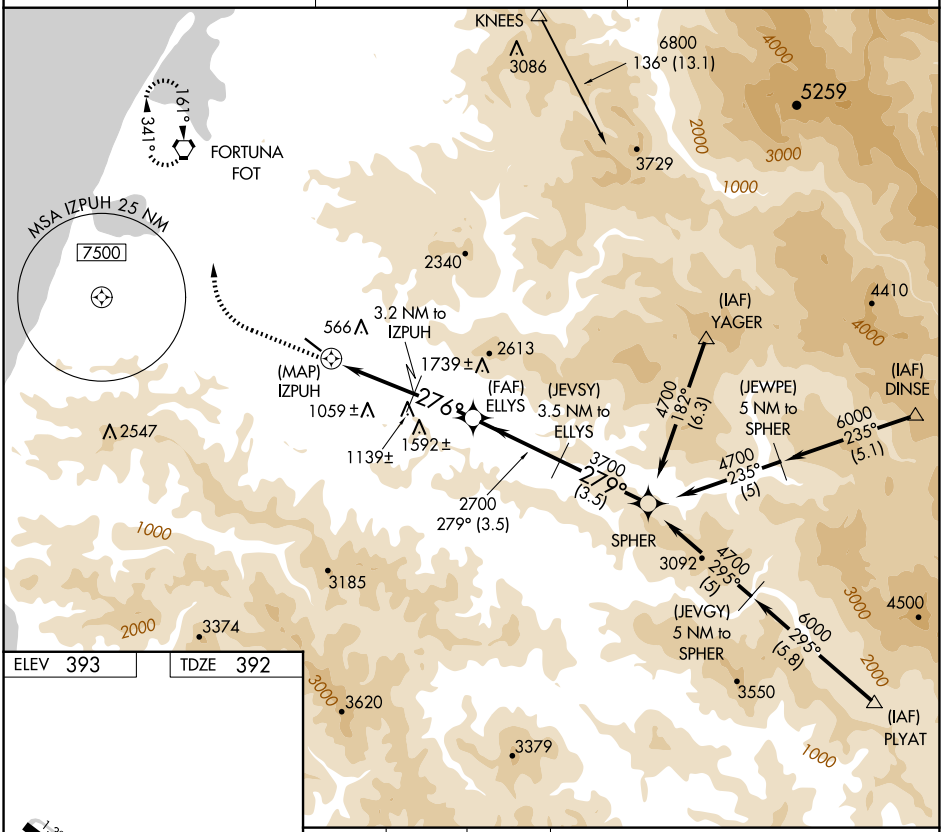
APP CRS	Rwy Idg	4004
276°	TDZE	392
	Apt Elev	393

GPS RWY 29
ROHNERVILLE (FOT)

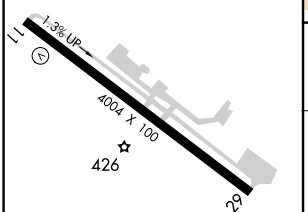
NA — When local altimeter setting not received, use Arcata altimeter setting. Circling NA for Cat D north of Rwy 11-29.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct FOT VORTAC and hold.

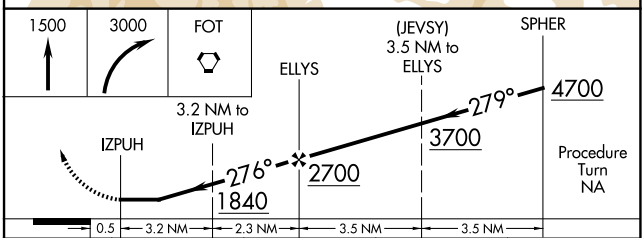
AWOS-3	SEATTLE CENTER	CTAF
133.8	124.85 306.3	122.9 L



ELEV 393 | TDZE 392



REIL Rwys 11 and 29 L
MIRL Rwy 11-29 L
276°



CATEGORY	A	B	C	D
S-29	1160-1 768 (800-1)	1160-1¼ 768 (800-1¼)	1160-2¼ 768 (800-2¼)	1160-2½ 768 (800-2½)
CIRCLING	1160-1 767 (800-1)	1360-1½ 967 (1000-1½)	1720-3 1327 (1400-3)	1780-3 1387 (1400-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 12

FRESNO CHANDLER EXEC (FCH)

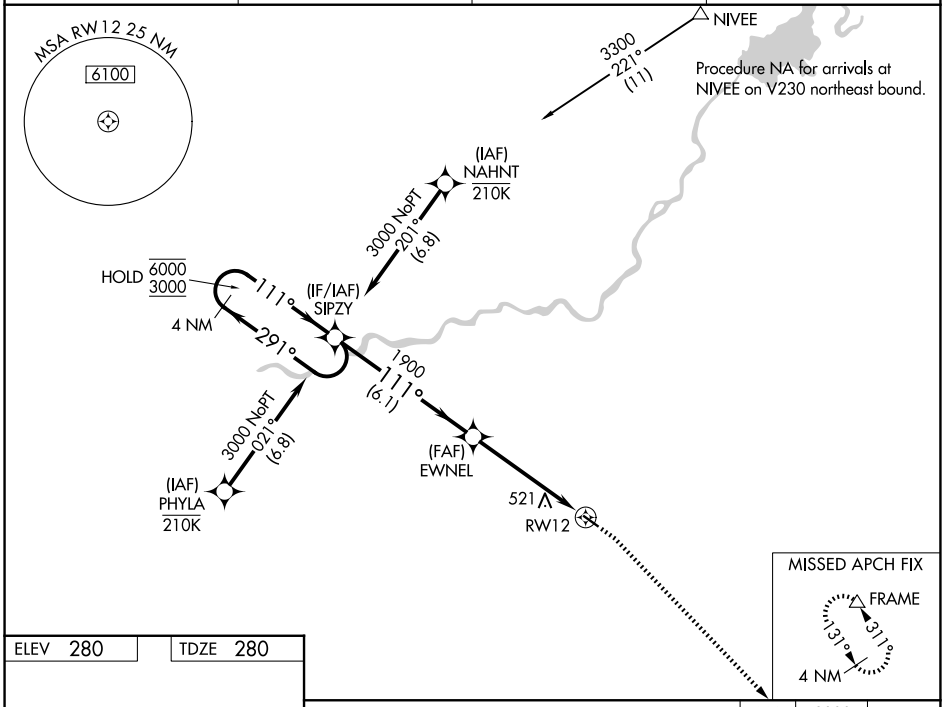
WAAS	APP CRS	Rwy Ldg	3212
CH 49242	111°	TDZE	280
W12A		Apt Elev	280

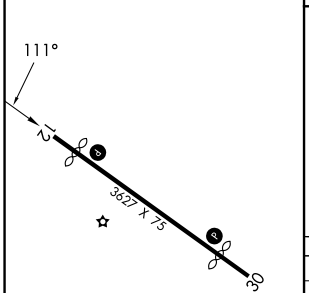
RNP APCH-GPS.

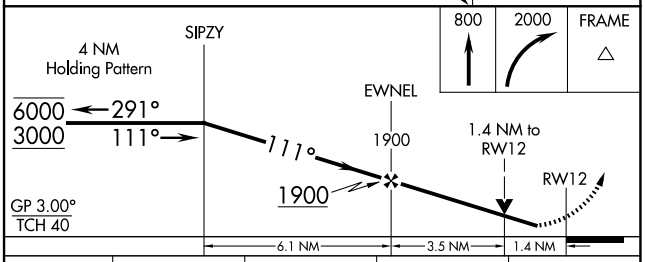
Circling Rwy 30 NA at night. Rwy 12 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1° C or above 54°C.

MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct FRAME and hold.

AWOS-3	FRESNO APP CON	CLNC DEL	UNICOM
135.225	119.0 323.25	119.0	123.0 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	530-1 250 (300-1)			NA
LNAV/VNAV DA	809-1½ 529 (600-1½)			NA
LNAV MDA	780-1 500 (500-1)		780-1⅜ 500 (500-1⅜)	NA
CIRCLING	960-1 680 (700-1)		960-2 680 (700-2)	NA

MIRL Rwy 12-30 L
REIL Rwys 12 and 30 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 30

FRESNO CHANDLER EXEC (FCH)

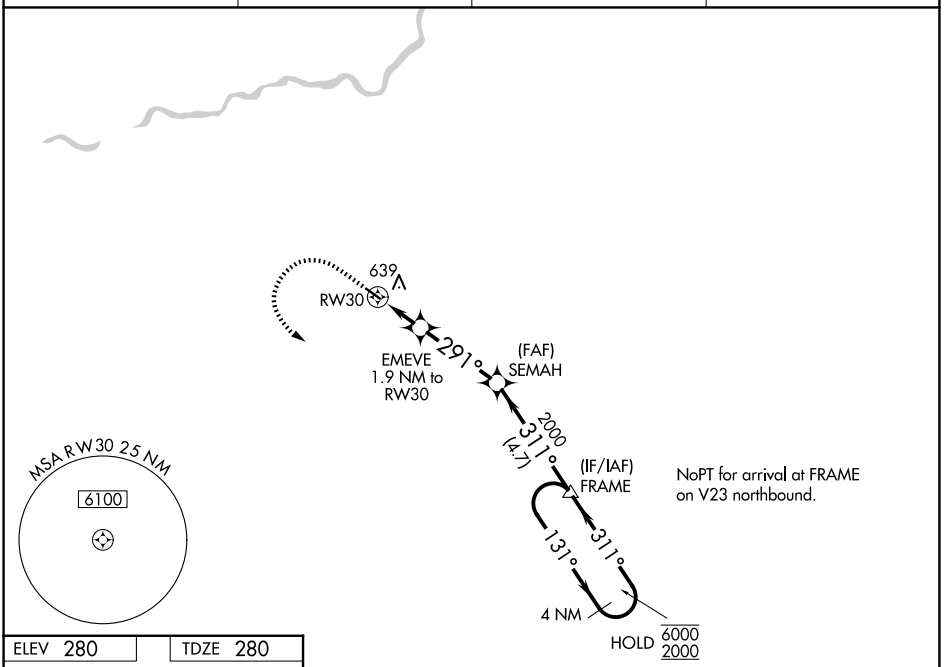
APP CRS	Rwy Ldg	3089
291°	TDZE	280
	Apt Elev	280

RNP APCH.

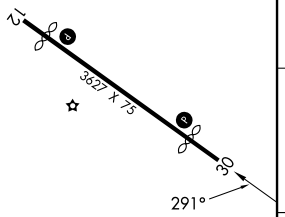
T Straight-in Rwy 30 NA at night, Circling Rwy 30 NA at night. Rwy 30 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct FRAME and hold.

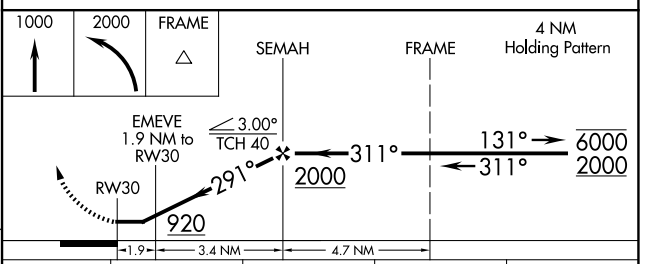
AWOS-3	FRESNO APP CON	CLNC DEL	UNICOM
135.225	119.0 323.25	119.0	123.0 (CTAF) L



ELEV 280 TDZE 280



MIRL Rwy 12-30 L
REIL Rwys 12 and 30 L



CATEGORY	A	B	C	D
LNAV MDA	800-1	520 (600-1)	800-1⅜ 520 (600-1⅜)	NA
CIRCLING	960-1	680 (700-1)	960-2 680 (700-2)	NA

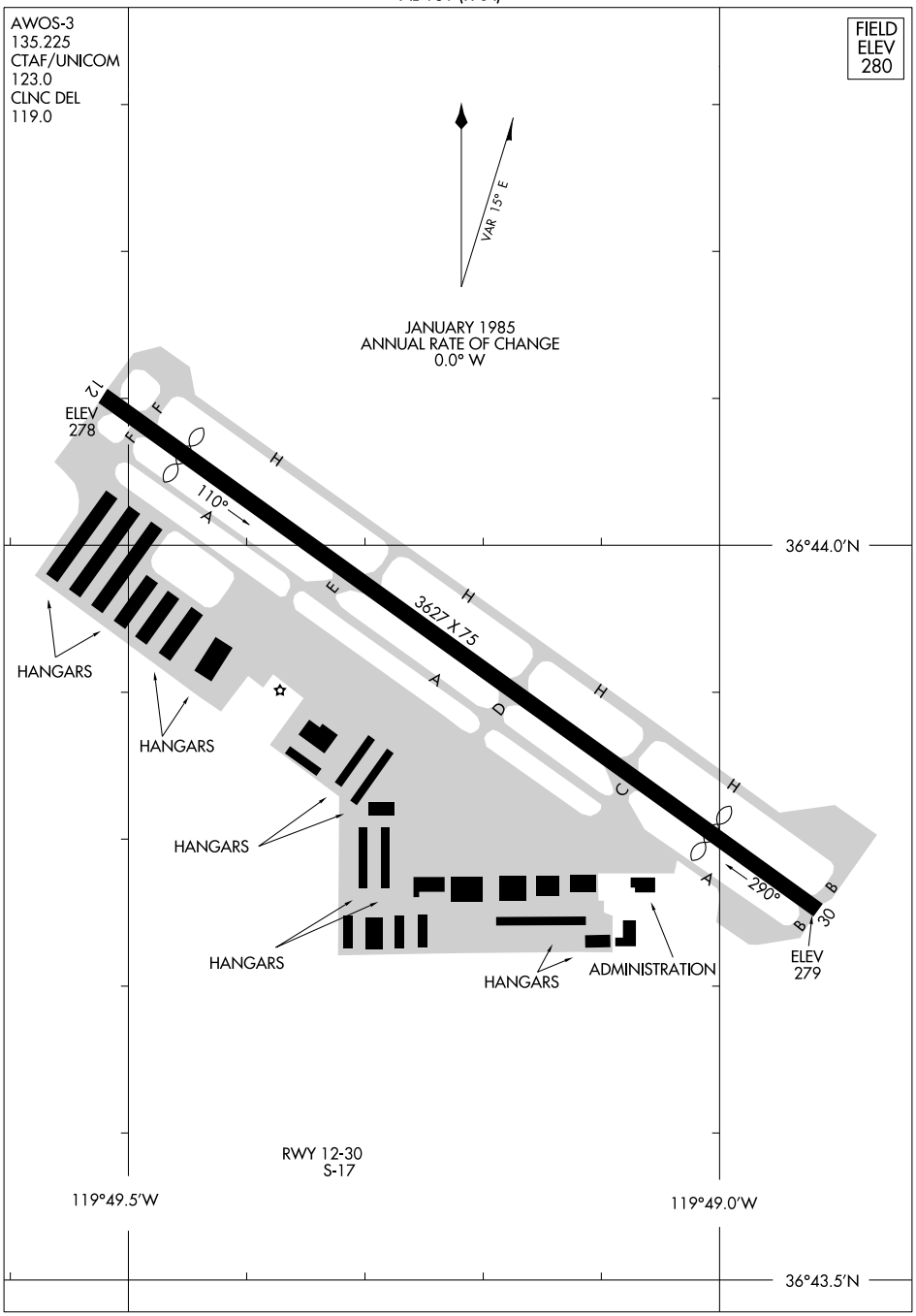
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26134

AIRPORT DIAGRAM

AL-161 (FAA)

FRESNO CHANDLER EXEC (FCH)
FRESNO, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM

FRESNO, CALIFORNIA
FRESNO CHANDLER EXEC (FCH)

26134

ILS Y or LOC Y RWY 29R

FRESNO YOSEMITE INTL (FAT)

LOC/DME I-FAT	APP CRS		29R	29L
111.3	292°	Rwy Ldg	9227	8008
Chan 50		TDZE	333	331
		Apt Elev	336	336

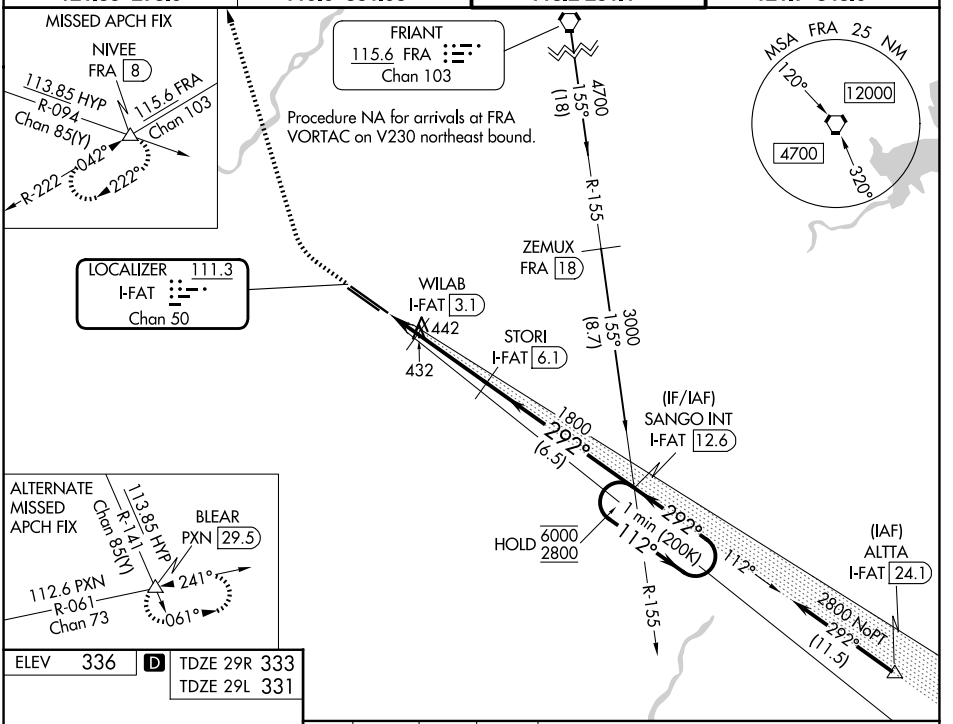
DME required for LOC only.

For inop ALS, increase S-ILS 29R Cat E visibility to RVR 4000 and S-LOC 29R Cats C, D and E visibility to RVR 5500. Hold in lieu of PT NA for Cat E aircraft.

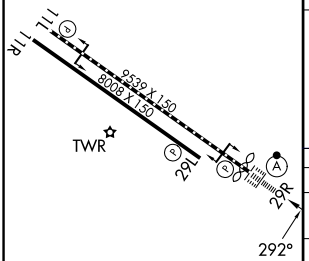
ALSF-2 Rwy 29R

MISSED APPROACH: Climb to 800 then climbing right turn to 5500 on heading 330° and FRA VORTAC R-222 to NIVEE INT/FRA 8 DME and hold, continue climb-in-hold to 5500.

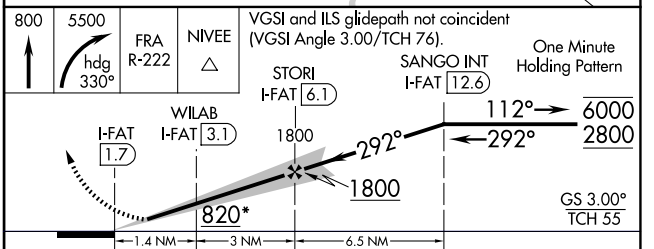
ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6



ELEV 336 D TDZE 29R 333 TDZE 29L 331



REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R



CATEGORY	A	B	C	D	E
S-ILS 29R	533/18 200 (200-½)				
S-LOC 29R	700/24 367 (400-½)		700/35 367 (400-⅝)		
SIDESTEP 29L	700/55 369 (400-1)		700-1½ 369 (400-1½)	700-2 369 (400-2)	
CIRCLING	820-1 484 (500-1)		920-1½ 584 (600-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

FRESNO, CALIFORNIA AL-162 (FAA) 26022

LOC/DME I-FAT	APP CRS	Rwy Ldg	9227
111.3	292°	TDZE	333
Chan 50		Apt Elev	336

ILS Y RWY 29R (SA CAT I)

FRESNO YOSEMITE INTL (FAT)

Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

MISSED APPROACH: Climb to 800 then climbing right turn to 5500 on heading 330° and FRA VORTAC R-222 to NIVEE INT/FRA 8 DME and hold, continue climb-in-hold to 5500.

ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6

MISSED APCH FIX
NIVEE
FRA 8
113.85 HYP R-094 Chan 85(Y)
115.6 FRA Chan 103
R-222 042° 222°

FRIANT
115.6 FRA
Chan 103

Procedure NA for arrivals at FRA VORTAC on V230 northeast bound.

4700
155° (18)
R-155

MSA FRA 25 NM
120° 12000
4700
320°

ZEMUX
FRA 18

LOCALIZER 111.3
I-FAT
Chan 50

3000
155° (8.7)

442
432

STORI
I-FAT 6.1

1800
292° (6.5)

(IF/IAF)
SANGO INT
I-FAT 12.6

ALTERNATE MISSED APCH FIX
113.85 HYP R-141 Chan 85(Y)
BLEAR
PXN 29.5
112.6 PXN R-061 Chan 73
241° 061°

HOLD 6000 2800
1 min (200K)
292° 112°
R-155

112°
2800 NoPT
292° (11.5)

(IAF)
ALTTA
I-FAT 24.1

ELEV 336 D TDZE 333

11L 11R
9539 X 150
8008 X 150
TWR
29L 29R

800	5500 hdg 330°	FRA R-222	NIVEE

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 76).

STORI
I-FAT 6.1

SANGO INT
I-FAT 12.6

One Minute Holding Pattern

1800
292°
1800
112° 6000
292° 2800

GS 3.00°
TCH 55

1049' 4.4 NM 6.5 NM

CATEGORY	A	B	C	D
S-ILS 29R	RA 151/14 150 DA 483			

REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

FRESNO, CALIFORNIA
Amdt 39A 24MAR22

36°47'N-119°43'W

FRESNO YOSEMITE INTL (FAT)
ILS Y RWY 29R (SA CAT I)

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-FAT	APP CRS	Rwy Ldg	9227
111.3	292°	TDZE	333
Chan 50		Apt Elev	336

ILS Y RWY 29R (CAT II & III)

FRESNO YOSEMITE INTL (FAT)

CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

MISSED APPROACH: Climb to 800 then climbing right turn to 5500 on heading 330° and FRA VORTAC R-222 to NIVEE INT/FRA 8 DME and hold, continue climb-in-hold to 5500.

ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6

MISSED APCH FIX
NIVEE
FRA 8
113.85 HYP R-094 Chan 85(Y)
115.6 FRA Chan 103
R-222 042° 222°

FRIANT
115.6 FRA
Chan 103

Procedure NA for arrivals at FRA VORTAC on V230 northeast bound.

4700 (18) 155° R-155

MSA FRA 25 NM
120° 12000
4700
320°

ZEMUX
FRA 18

LOCALIZER 111.3
I-FAT
Chan 50

3000 (8.7) 155°

442
432

STORI
I-FAT 6.1

1800
292° (6.5)

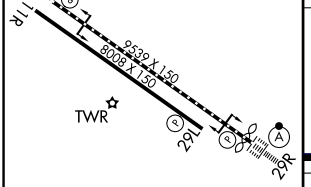
(IF/IAF)
SANGO INT
I-FAT 12.6

ALTERNATE MISSED APCH FIX
113.85 HYP R-141 Chan 85(Y)
BLEAR
PXN 29.5
112.6 PXN R-061 Chan 73
241° 061°

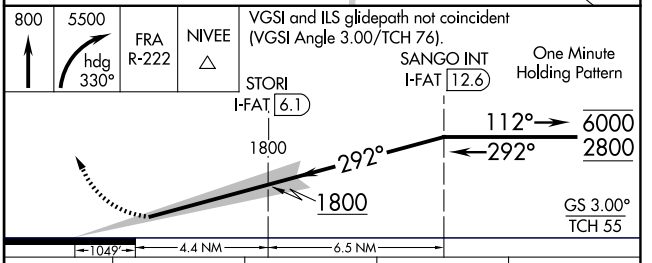
HOLD 6000 2800
1 min (200K)
292° 112°
R-155

(IAF)
ALTTA
I-FAT 24.1
112°
2800 NoPT
292° (11.5)

ELEV 336 D TDZE 333



REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R



CATEGORY	A	B	C	D
S-ILS 29R	CAT II RA 101/12 100 DA 433			
S-ILS 29R	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 11L

FRESNO YOSEMITE INTL (FAT)

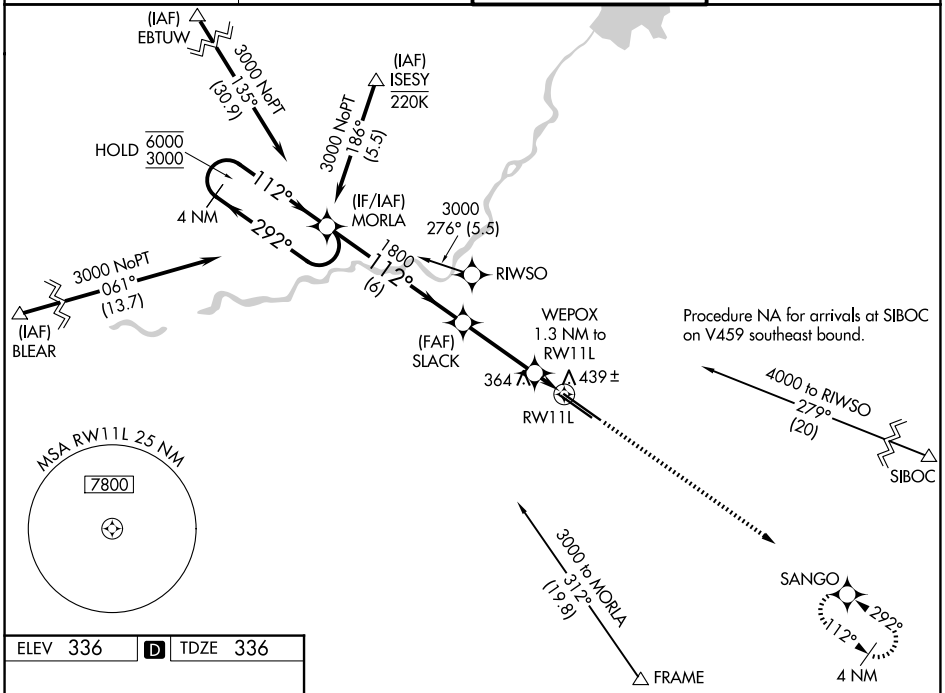
WAAS	APP CRS	Rwy Ldg	9279
CH 77505	112°	TDZE	336
W11A		Apt Elev	336

RNP APCH.

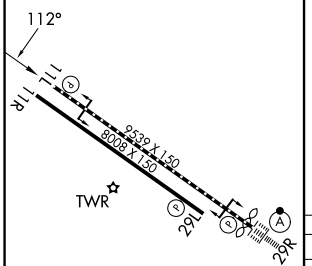
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C or above 54°C .

MISSED APPROACH: Climb to 2600 direct SANGO and hold.

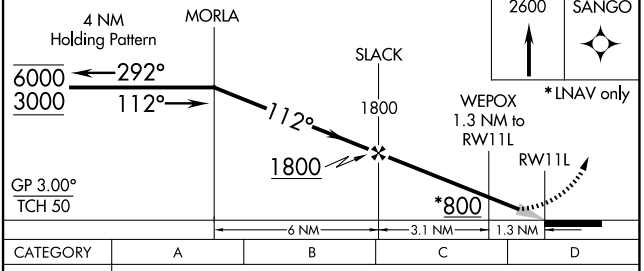
ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6



ELEV 336 | D | TDZE 336



REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R



CATEGORY	A	B	C	D
LPV DA	536/40 200 (200-¾)			
LNAV/VNAV DA	620/45 284 (300-⅞)			
LNAV MDA	700/55 364 (400-1)			
CIRCLING	820-1 484 (500-1)		920-1½ 584 (600-1½)	920-2 584 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 78330 W11B	APP CRS 112°	Rwy Ldg 8008 TDZE 333 Apt Elev 336

RNAV (GPS) RWY 11R

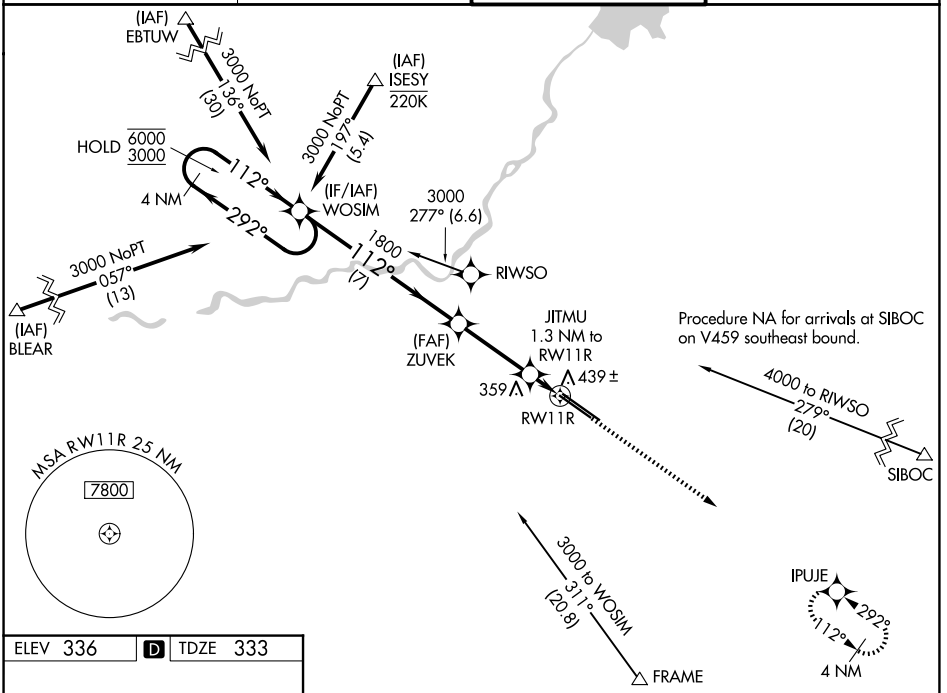
FRESNO YOSEMITE INTL (FAT)

RNP APCH.

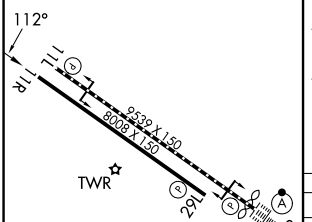
Rwy 11R helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C or above 54°C.

MISSED APPROACH: Climb to 2600 direct IPUJE and hold.

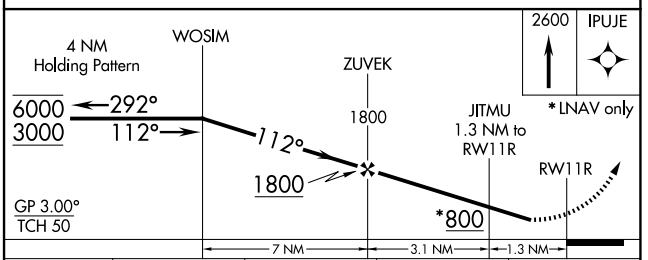
ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6



ELEV 336	D	TDZE 333



REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R



CATEGORY	A	B	C	D
LPV DA	584-¾ 251 (300-¾)			
LNAV/VNAV DA	620-⅞ 287 (300-⅞)			
LNAV MDA	700-1 367 (400-1)			
CIRCLING	820-1 484 (500-1)		920-1½ 584 (600-1½)	920-2 584 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 29L

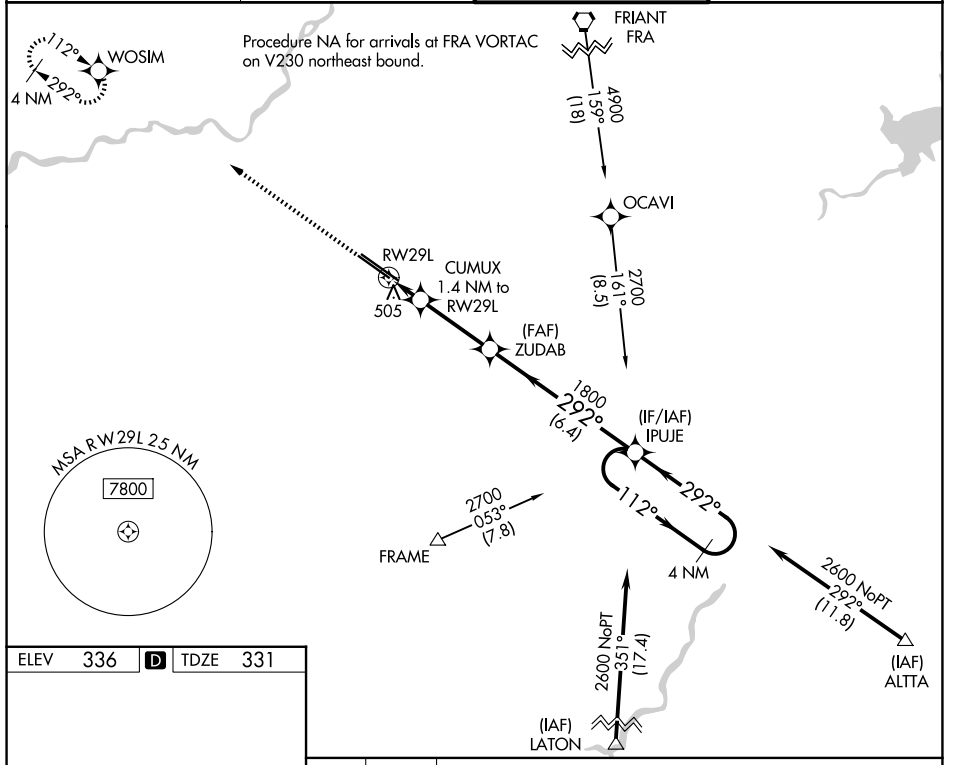
FRESNO YOSEMITE INTL (FAT)

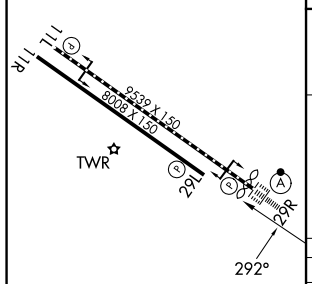
WAAS	APP CRS	Rwy Ldg	8008
CH 50530	292°	TDZE	331
W29B		Apt Elev	336

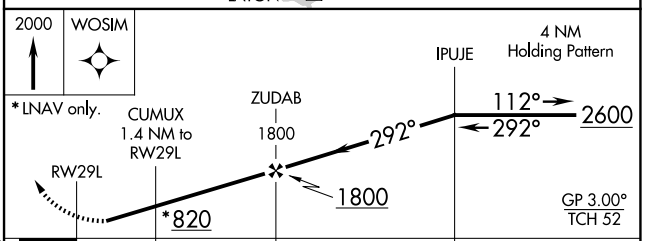
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C (32°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2000 direct WOSIM and hold.

ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6







CATEGORY	A	B	C	D
LPV DA	581-¾ 250 (300-¾)			
LNAV/VNAV DA	667-1⅛ 336 (400-1⅛)			
LNAV MDA	760-1 429 (500-1)		760-1¼ 429 (500-1¼)	
CIRCLING	820-1 484 (500-1)		920-1½ 584 (600-1½)	920-2 584 (600-2)

REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 29R

FRESNO YOSEMITE INTL (FAT)

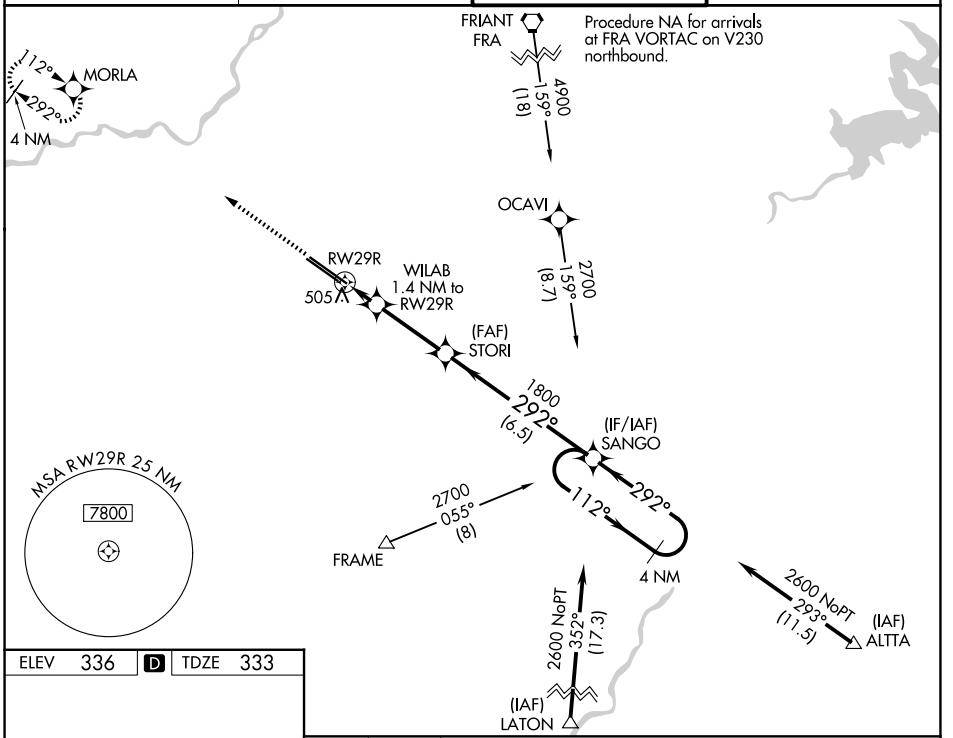
WAAS	APP CRS	Rwy Ldg	9227
CH 81803	292°	TDZE	333
W29A		Apt Elev	336

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C (32°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

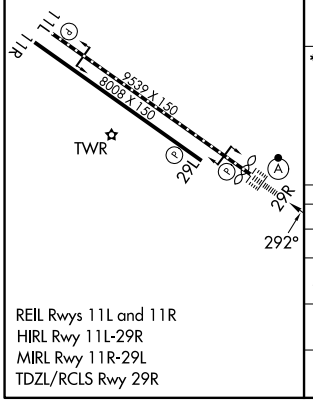
ALSF-2

MISSED APPROACH: Climb to 2000 direct MORLA and hold.

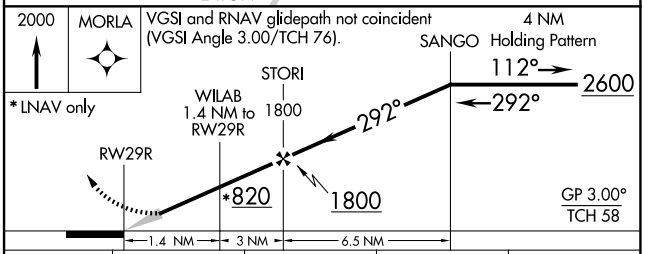
ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6



ELEV 336 D TDZE 333



REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R



CATEGORY	A	B	C	D
LPV DA	533/18	200 (200-½)		
LNAV/VNAV DA	689/30	356 (400-⅝)		
LNAV MDA	760/24	427 (500-½)	760/40	427 (500-¾)
CIRCLING	820-1	484 (500-1)	920-1½ 584 (600-1½)	920-2 584 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

FRESNO, CALIFORNIA

AL-162 (FAA)

26022

LOC Y RWY 11L

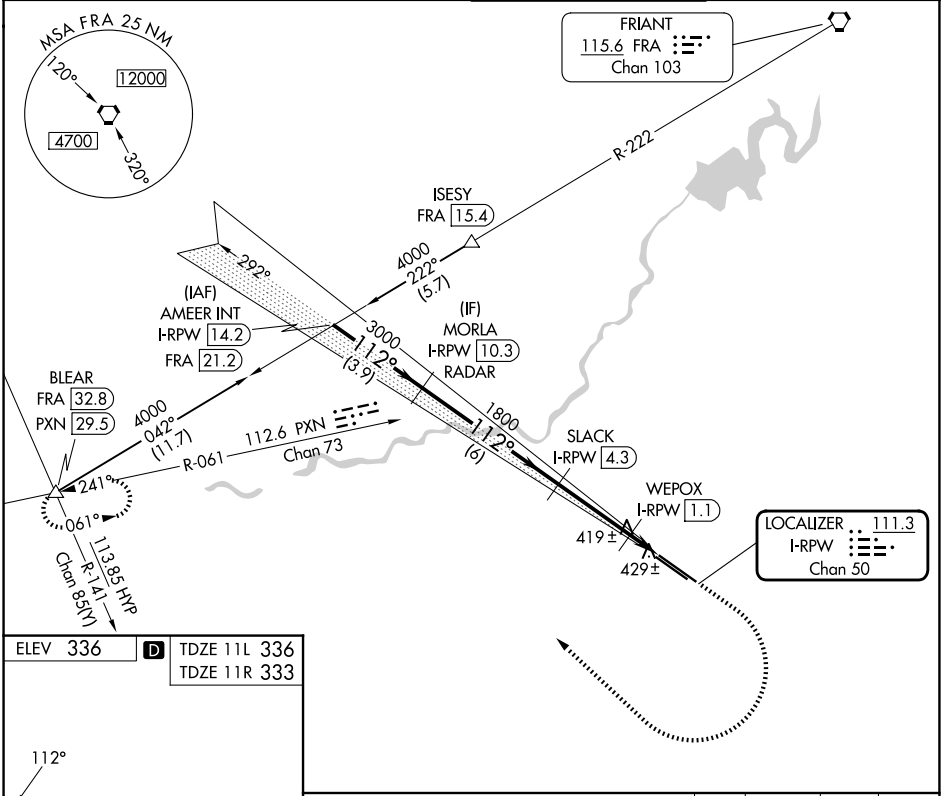
FRESNO YOSEMITE INTL (FAT)

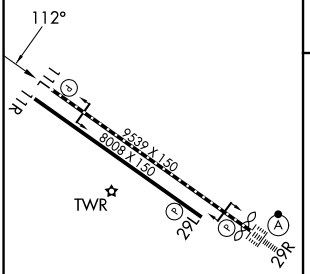
LOC/DME I-RPW	APP CRS		11L	11R
111.3	112°	Rwy Ldg	9279	8008
Chan 50		TDZE	336	333
		Apt Elev	336	336

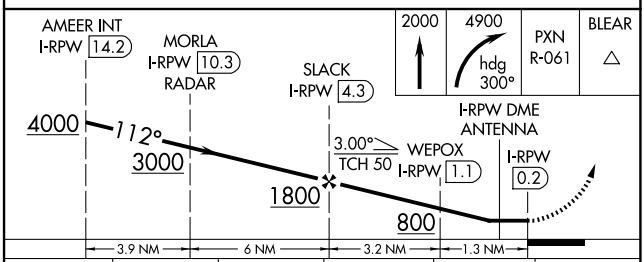
DME required.

MISSED APPROACH: Climb to 2000 then climbing right turn to 4900 on heading 300° and PXN VORTAC R-061 to BLEAR INT/PXN VORTAC 29.5 DME and hold.

ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6







CATEGORY	A	B	C	D	E
S-LOC 11L	680/55 344 (400-1)				
SIDESTEP 11R	680-1 347 (400-1)		680-1½ 347 (400-1½)	680-2 347 (400-2)	

REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R

FRESNO, CALIFORNIA
Amdt 3A 05DEC19

36°47'N-119°43'W

FRESNO YOSEMITE INTL (FAT)

LOC Y RWY 11L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

TACAN RWY 11L

FRESNO YOSEMITE INTL (FAT)

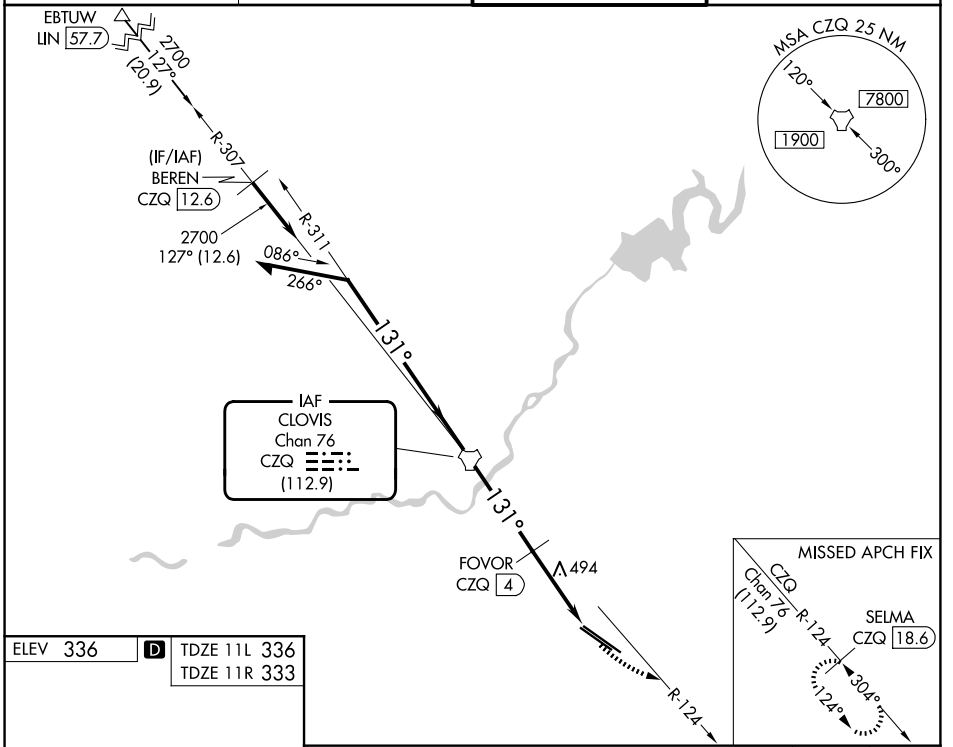
TACAN	APP CRS		11L	11R
CZQ Chan 76 (112.9)	131°	Rwy Ldg	9279	8008
		TDZE	336	333
		Apt Elev	336	336

DME required.

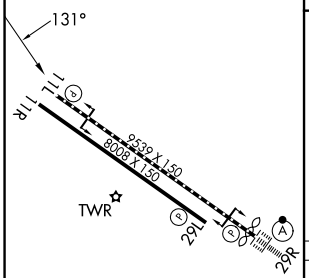
Rwy 11L helicopter visibility reduction below ¾ SM NA.

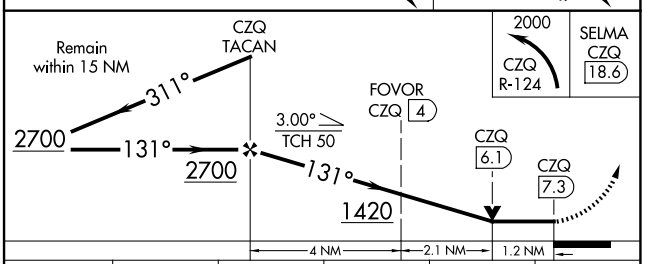
MISSED APPROACH: Climbing left turn to 2000 on CZQ TACAN R-124 to SELMA/CZQ 18.6 DME and hold.

ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6



ELEV 336 D TDZE 11L 336 TDZE 11R 333





CATEGORY	A	B	C	D	E
S-11L	760/55 424 (500-1)		760-1¼ 424 (500-1¼)		
SIDESTEP 11R	760-1 427 (500-1)		760-1½ 427 (500-1½)	760-2 427 (500-2)	
CIRCLING	820-1 484 (500-1)		920-1½ 584 (600-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)

REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

FRESNO, CALIFORNIA AL-162 (FAA) 26022

TACAN RWY 29R

FRESNO YOSEMITE INTL (FAT)

TACAN	APP CRS		29R	29L
CZQ Chan 76 (112.9)	307°	Rwy Ldg	9227	8008
		TDZE	333	331
		Apt Elev	336	336

T A Rwy 29R helicopter visibility reduction below RVR 4000 NA. For inop ALS, increase S-29R Cat A/B visibility to RVR 5500 and Cat E visibility to 1¼ mile.

ALSF-2 Rwy 29R (A)

MISSED APPROACH: Climb to 5500 on heading 330° and FRA VORTAC R-222 to NIVEE INT/FRA 8 DME and hold, continue climb-in-hold to 5500.

ATIS	FRESNO APP CON	FRESNO TOWER	GND CON
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6

OXVEV CZQ 7 △

115.6 FRA Chan 103

R-222

FRIANT 115.6 FRA Chan 103

Procedure NA for arrivals at FRA VORTAC on V459 northwest bound.

5500

161° (28.3)

MISSED APCH FIX

NIVEE FRA 8

113.85 HYP R-094 Chan 85(Y)

115.6 FRA Chan 103

R-222–042°

222°

CLOVIS Chan 76 CZQ (112.9)

R-127

505 A

JULTI CZQ 10.6

URFEZ CZQ 13.1

1800

307° (6)

R-161

ALTERNATE MISSED APCH FIX

OXVEV CZQ 7

127°

307°

R-307 CZQ Chan 76 (112.9)

MSA CZQ 25 NM

120° 7800

1900 300°

(IF/IAF) IXDEB CZQ 19.1

307°

1 min

127°

R-127

HOLD 6000 2000

ELEV 336 D TDZE 29R 333 TDZE 29L 331

11L 11R 9539 X 150 8005 X 150 TWR 29L 29R 307°

5500 hdg 330°

FRA R-222

NIVEE △

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 76).

One Minute Holding Pattern

IXDEB CZQ 19.1

URFEZ CZQ 13.1

JULTI CZQ 10.6

CZQ 9.8

CZQ 8.7

3.03° TCH 55

307°

1800

980

127° 6000

307° 2000

1.1 NM 0.8 NM 2.5 NM 6 NM

CATEGORY	A	B	C	D	E
S-29R	760/40 427 (500-¾)				
SIDESTEP 29L	760/55 429 (500-1)		760-1½ 429 (500-1½)	760-2 429 (500-2)	
CIRCLING	820-1 484 (500-1)		920-1½ 584 (600-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)

REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/RCLS Rwy 29R

FRESNO, CALIFORNIA
Amdt 3 10OCT19

36°47′N-119°43′W

FRESNO YOSEMITE INTL (FAT)

TACAN RWY 29R

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

(BULL3.NTELL) 23334

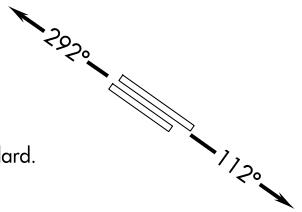
BULLDOG THREE DEPARTURE

AL-162 (FAA)

FRESNO YOSEMITE INTL (FAT)
FRESNO, CALIFORNIA

ATIS
121.35 273.6
CLNC DEL
124.35 348.6
GND CON
121.7 348.6
FRESNO TOWER
118.2 251.1
FRESNO DEP CON
132.35 323.25

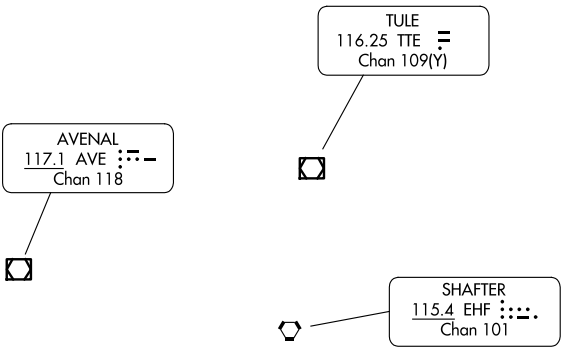
TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 11L/R, 29L/R: Standard.

NOTE: RADAR required.

FRAME △



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

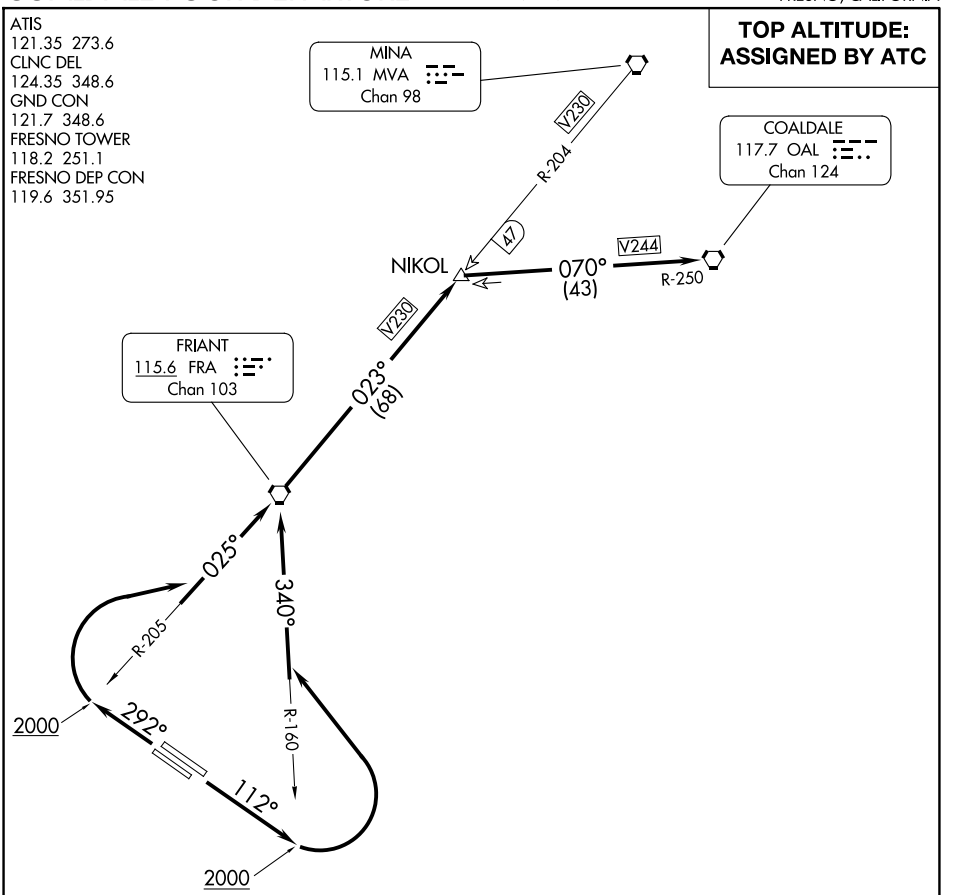
TAKEOFF RUNWAYS 11L/R: Climb heading 112° thence. . . .

TAKEOFF RUNWAYS 29L/R: Climb heading 292° thence. . . .

. . . .maintain ATC assigned altitude; expect clearance to filed altitude five minutes after departure.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 11L/R: Climb on heading 112° to 2000', then climbing left turn to intercept FRA R-160 to FRA VORTAC, thence. . . .

TAKEOFF RUNWAYS 29L/R: Climb on heading 292° to 2000', then climbing right turn to intercept FRA R-205 to FRA VORTAC, thence. . . .

. . . .continue climb to 14300 on FRA VORTAC R-023 and MVA VORTAC R-204 to NIKOL INT and on OAL VORTAC R-250 to OAL VORTAC. Maintain ATC assigned altitude.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(YOSE3.NTELL) 23334

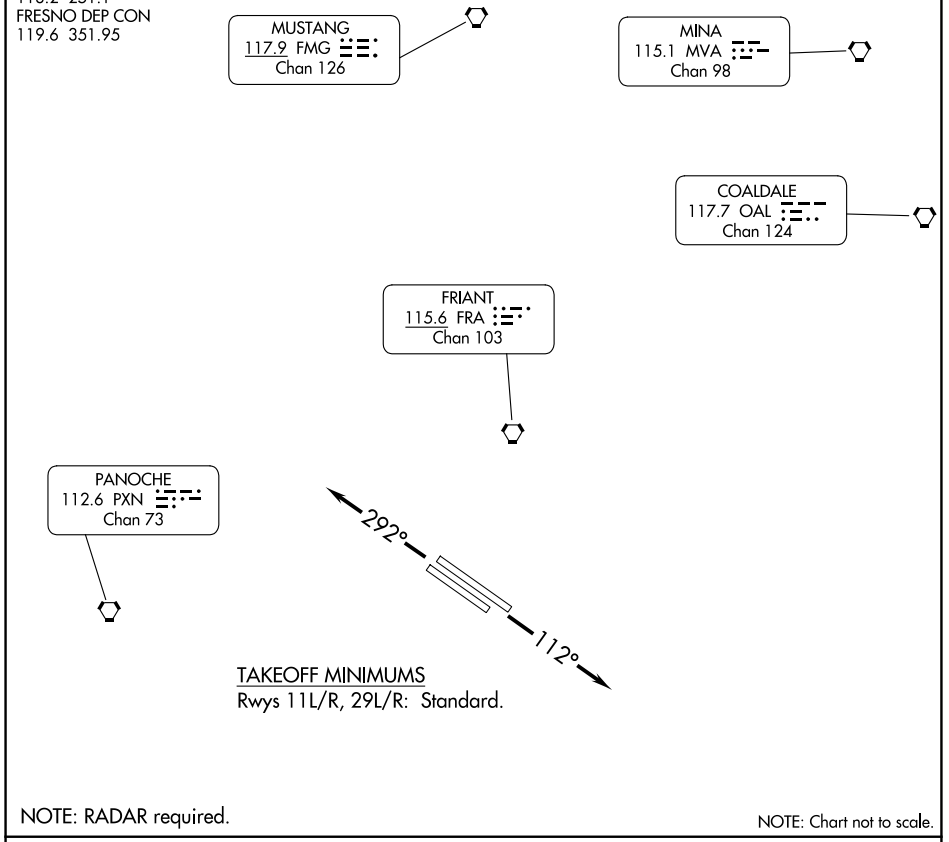
YOSEMITE THREE DEPARTURE

AL-162 (FAA)

FRESNO YOSEMITE INTL (FAT)
FRESNO, CALIFORNIA

ATIS
121.35 273.6
CLNC DEL
124.35 348.6
GND CON
121.7 348.6
FRESNO TOWER
118.2 251.1
FRESNO DEP CON
119.6 351.95

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 11L/R, 29L/R: Standard.

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 11L/R: Climb heading 112°, thence. . . .

TAKEOFF RUNWAYS 29L/R: Climb heading 292°, thence. . . .

. . . .maintain ATC assigned altitude; expect clearance to filed altitude five minutes after departure.

LOST COMMUNICATIONS: If not in contact with Fresno Departure Control within two minutes of takeoff, aircraft enroute to FRA, MVA, FMG and OAL proceed direct FRA VORTAC, cross FRA VORTAC at or above 9000, thence via assigned route to filed altitude.

WAAS	APP CRS		
CH **90240**	**071°**	Rwy Ldg	**4657**
W07A		TDZE	**3131**
		Apt Elev	**3158**

RNAV (GPS) RWY 7

NEVADA COUNTY (GOO)

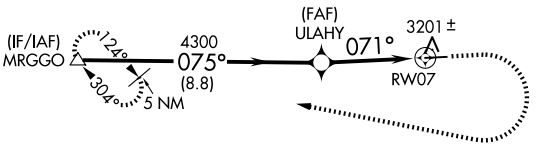
RNP APCH.

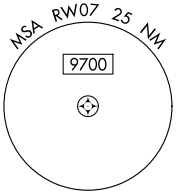
Circling NA north of Rwy 7-25. Circling Rwy 25 NA at night. Rwy 7 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C or above 54°C.

MISSED APPROACH: (Do not exceed 250K until MRGGO) Climb to 3900 then climbing right turn to 6000 direct MRGGO and hold.

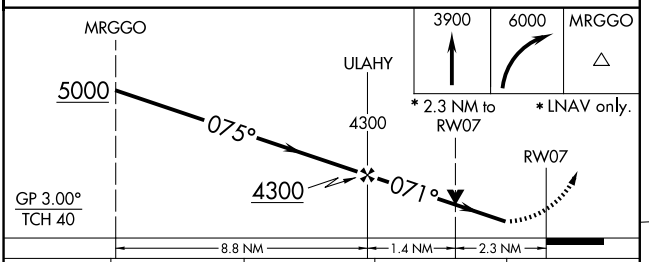
AWOS-3	NORCAL APP CON	UNICOM
121.325	**125.4 259.1**	**122.725** (CTAF) L

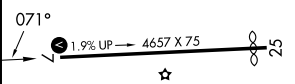
Procedure NA for arrivals at MRGGO on V332 northwest bound and V200 westbound.





ELEV 3158 TDZE 3131





CATEGORY	A	B	C	D
LPV DA	3606-1⅜ 475 (500-1⅜)			
LNAV/VNAV DA	3772-1⅞ 641 (700-1⅞)			
LNAV MDA	3860-1 729 (800-1)		3860-2 729 (800-2)	
CIRCLING	3860-1 702 (800-1)		3880-2 722 (800-2)	3880-2¼ 722 (800-2¼)

MIRL Rwy 7-25 L

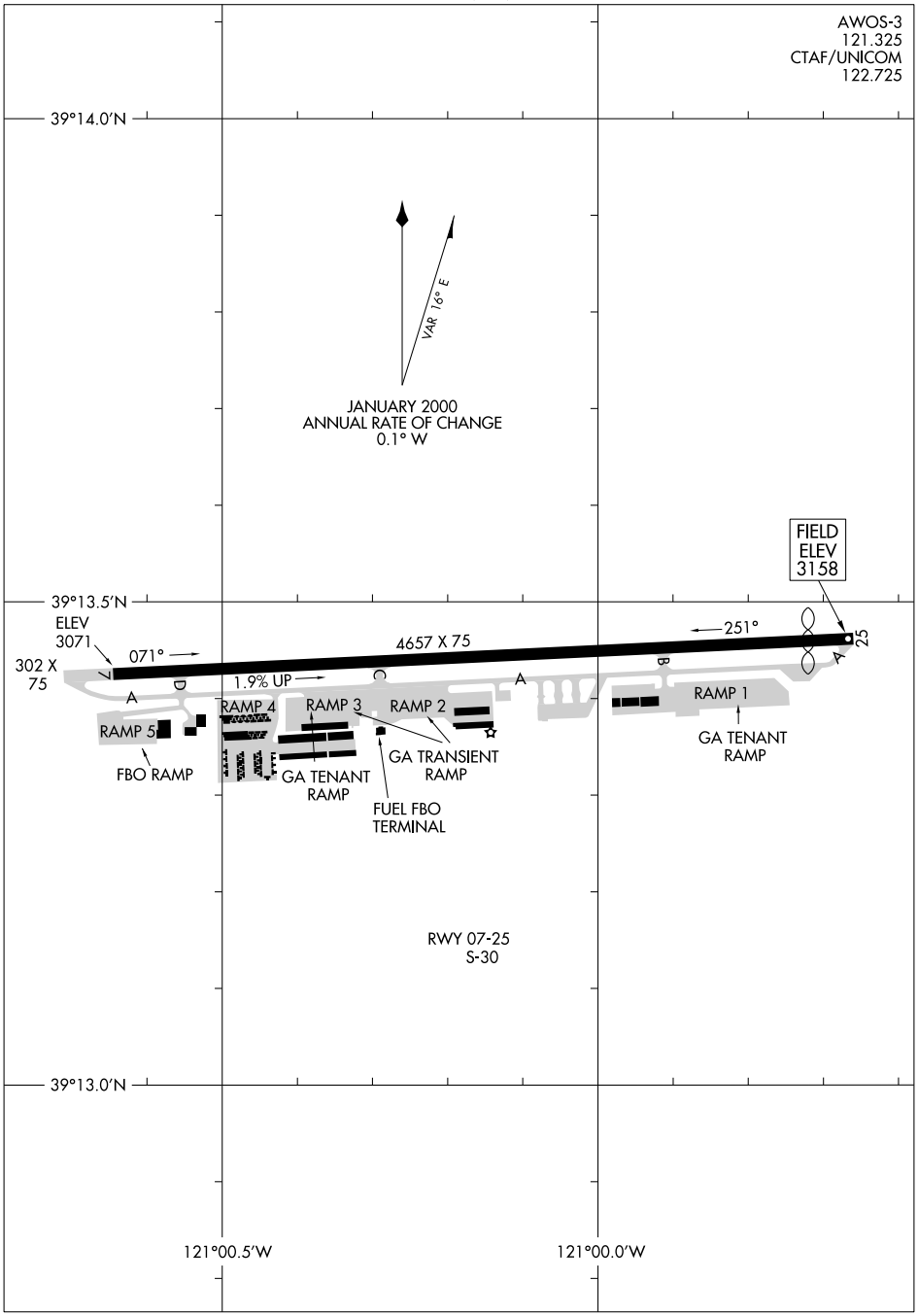
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26134

AIRPORT DIAGRAM

AL-6659 (FAA)

NEVADA COUNTY (GOO)
GRASS VALLEY, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM
26134

GRASS VALLEY, CALIFORNIA
NEVADA COUNTY (GOO)

RNAV (GPS) RWY 9

GROVELAND/YOSEMITE (E45)

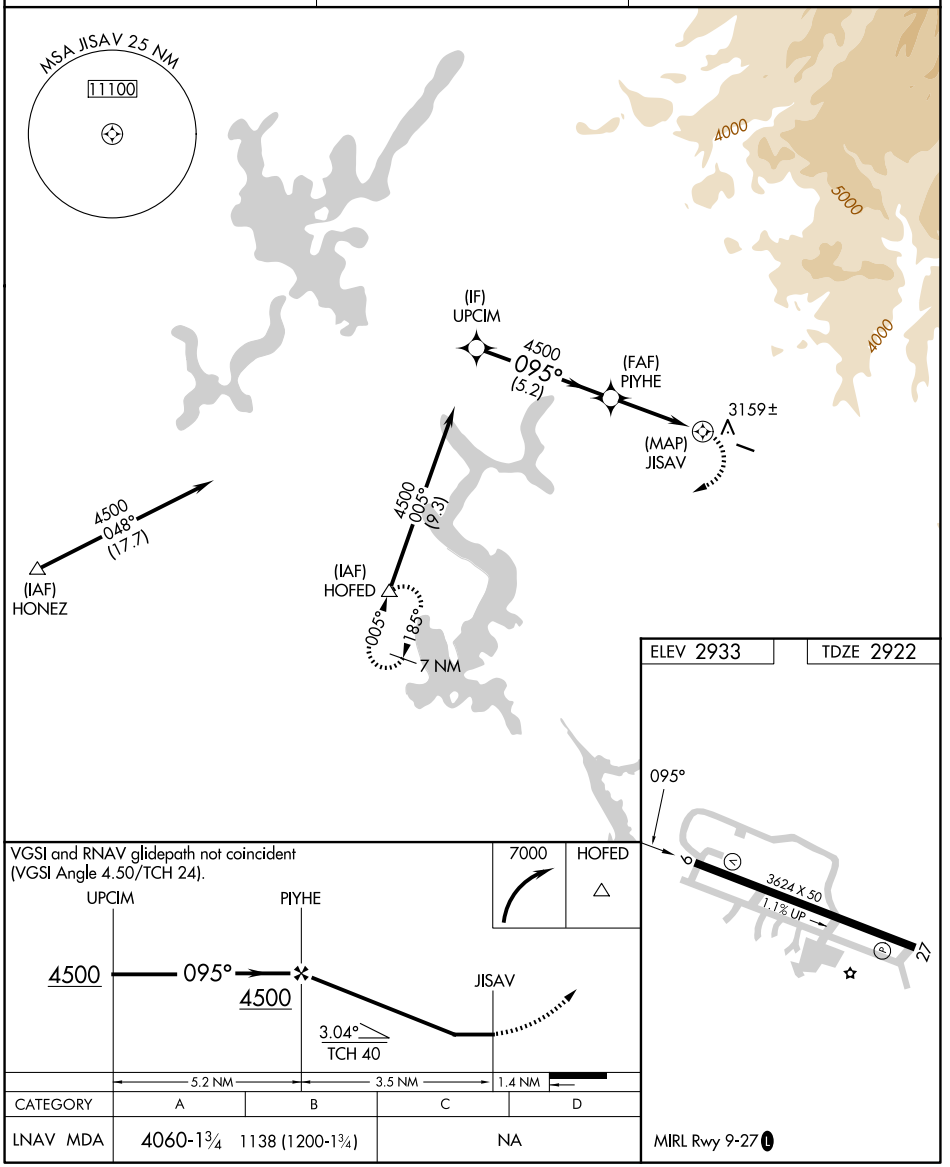
APP CRS	Rwy Ldg	3624
095°	TDZE	2922
	Apt Elev	2933

RNP APCH-GPS.

Procedure NA at night. Rwy 9 helicopter visibility reduction below 1 SM NA. Use Columbia altimeter setting.

MISSED APPROACH: Climbing right turn to 7000 direct HOFED and hold, continue climb-in-hold to 7000.

O22 AWOS-3	OAKLAND CENTER	CTAF
124.65	121.25 327.0	122.9 L



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

GROVELAND, CALIFORNIA

AL-9084 (FAA)

26134

GPS RWY 27

GROVELAND/YOSEMITE (E45)

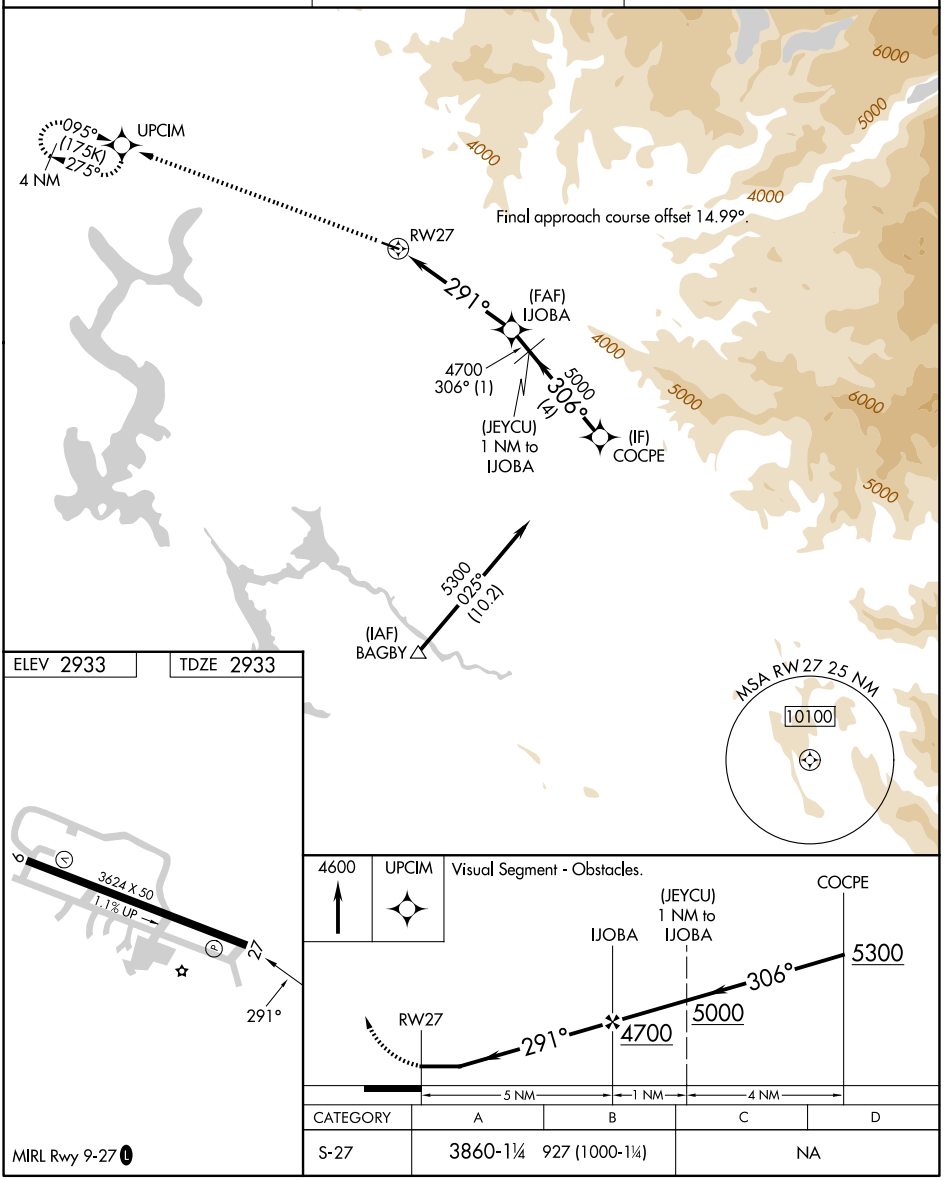
APP CRS	Rwy Ldg	3624
291°	TDZE	2933
	Apt Elev	2933

NA

Procedure NA at night. Rwy 27 helicopter visibility reduction below 1 SM NA. Use O22 altimeter setting, when not received, procedure NA.

MISSED APPROACH: Climb to 4600 direct UPCIM and hold.

O22 AWOS-3	OAKLAND CENTER	CTAF
124.65	121.25 327.0	122.9 L



ELEV 2933 | TDZE 2933

MIRL Rwy 9-27 L

CATEGORY	A	B	C	D
S-27	3860-1¼	927 (1000-1¼)		NA

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 12

HALF MOON BAY (HAF)

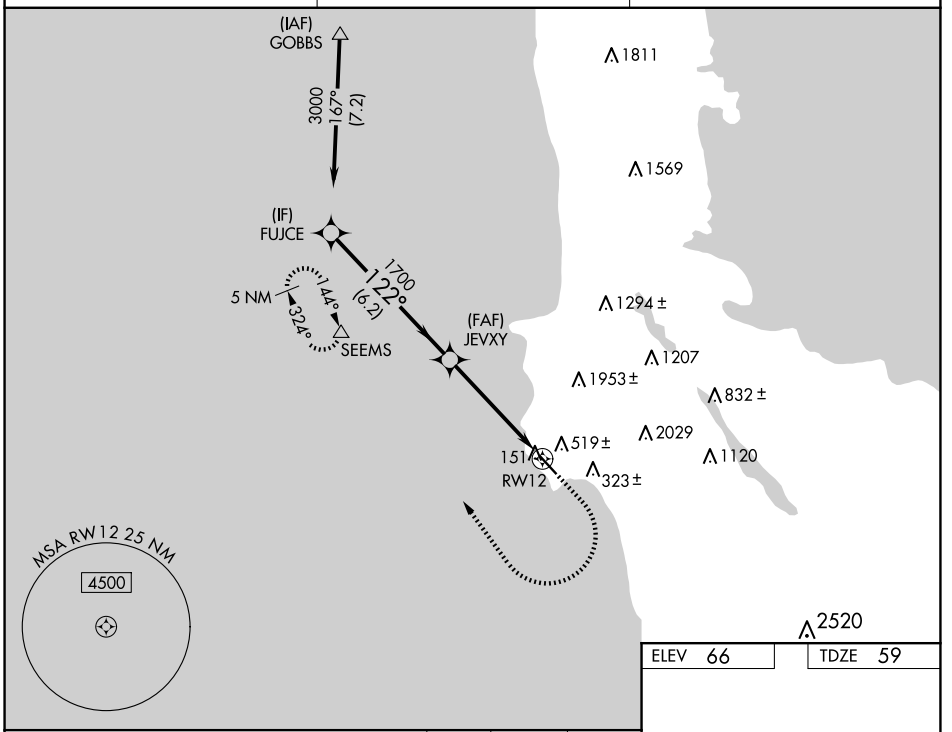
WAAS	APP CRS	Rwy Idg	4248
CH 99742	122°	TDZE	59
W12A		Apt Elev	66

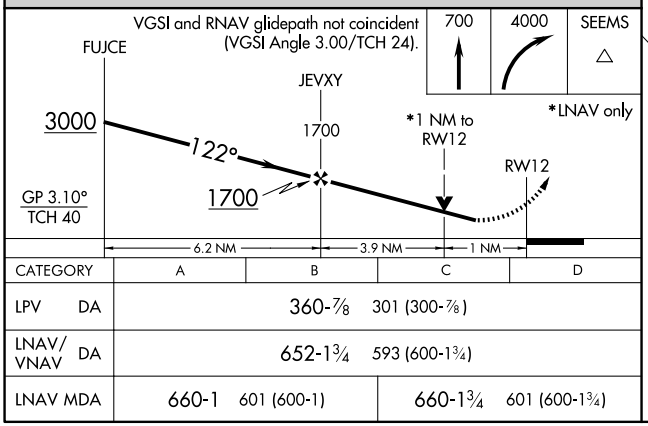
RNP APCH.

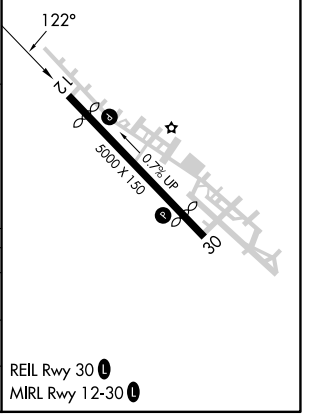
Rwy 12 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15° C or above 54° C.

MISSED APPROACH: Climb to 700 then climbing right turn to 4000 direct SEEMS and hold, continue climb-in-hold to 4000.

AWOS	NORCAL APP CON	UNICOM
127.275	135.1 307.2	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	360-⅞ 301 (300-⅞)			
LNAV/VNAV DA	652-1¾ 593 (600-1¾)			
LNAV MDA	660-1 601 (600-1)		660-1¾ 601 (600-1¾)	

REIL Rwy 30 L
MIRL Rwy 12-30 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

HALF MOON BAY, CALIFORNIA | AL-6675 (FAA) | 23110

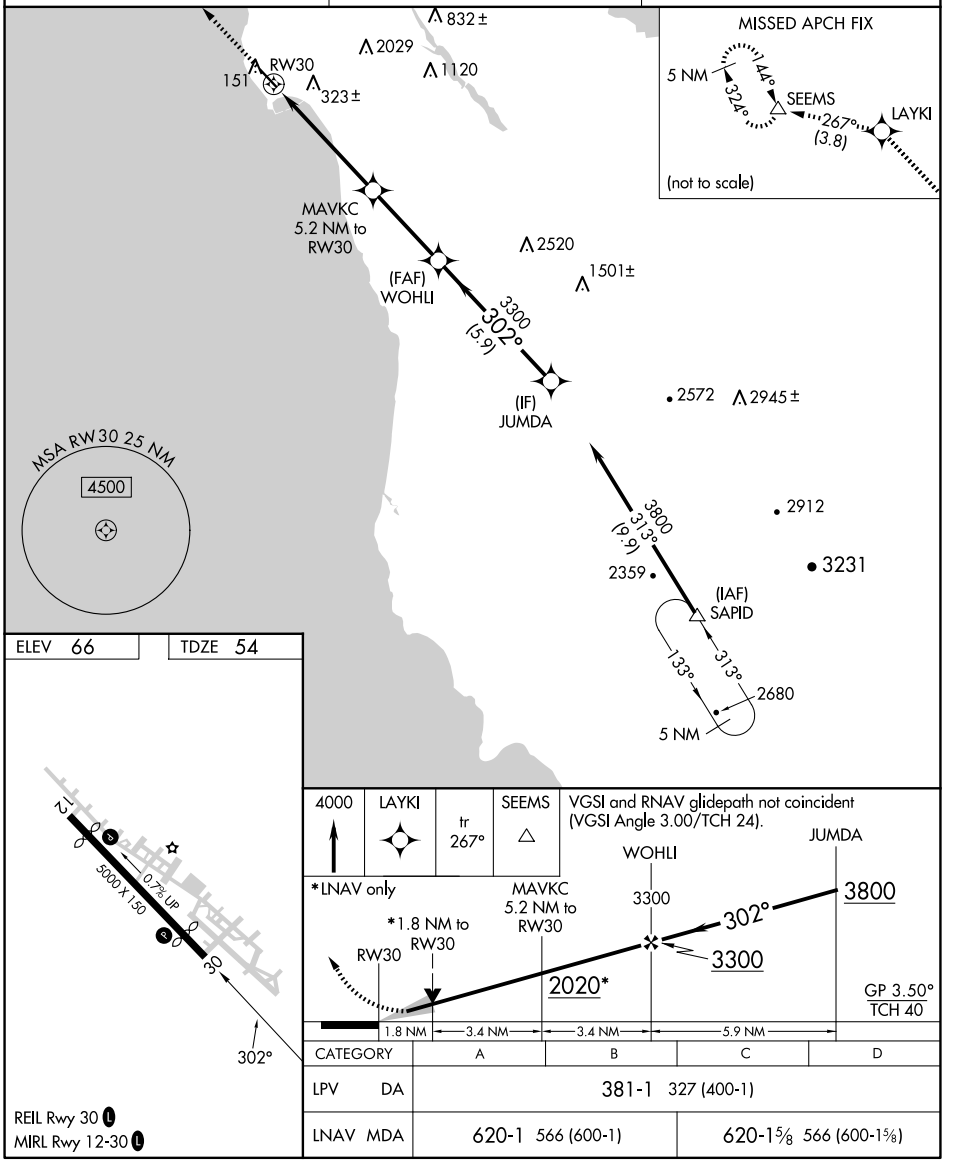
RNAV (GPS) RWY 30
HALF MOON BAY (HAF)

WAAS	APP CRS	Rwy Idg	4238
CH 50302	302°	TDZE	54
W30A		Apt Elev	66

RNP APCH.

MISSED APPROACH: Climb to 4000 direct LAYKI and on track 267° to SEEMS and hold, continue climb-in-hold to 4000.

AWOS-3	NORCAL APP CON	UNICOM
127.275	135.1 307.2	122.8 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	381-1 327 (400-1)			
LNAV MDA	620-1 566 (600-1)		620-1⅝ 566 (600-1⅝)	

REIL Rwy 30 L
MIRL Rwy 12-30 L

HALF MOON BAY, CALIFORNIA
Amdt 1A 18JUL19

37°31′N-122°30′W

HALF MOON BAY (HAF)
RNAV (GPS) RWY 30

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SEEMS ONE DEPARTURE (OBSTACLE) (RNAV)

RNAV 1 - GPS

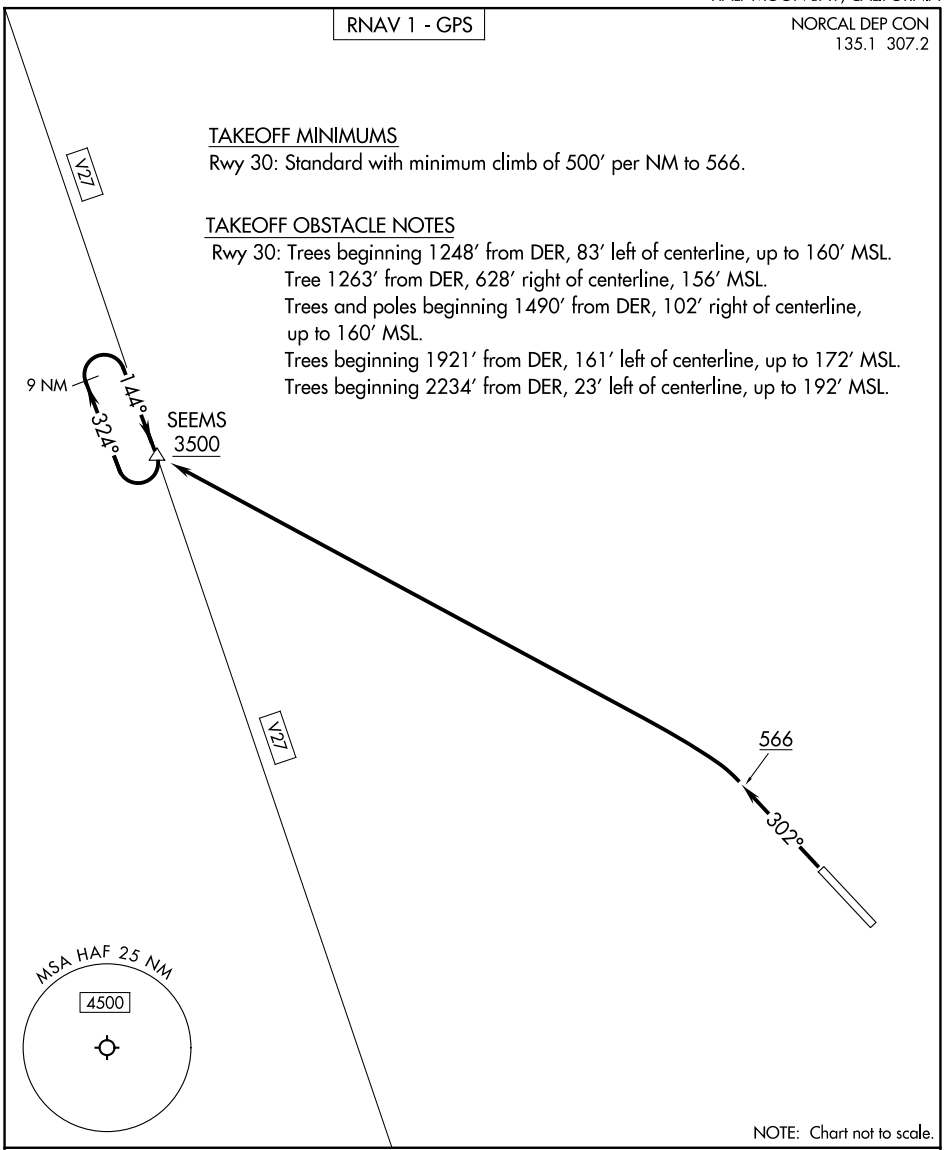
NORCAL DEP CON
135.1 307.2

TAKEOFF MINIMUMS

Rwy 30: Standard with minimum climb of 500′ per NM to 566.

TAKEOFF OBSTACLE NOTES

Rwy 30: Trees beginning 1248′ from DER, 83′ left of centerline, up to 160′ MSL.
Tree 1263′ from DER, 628′ right of centerline, 156′ MSL.
Trees and poles beginning 1490′ from DER, 102′ right of centerline, up to 160′ MSL.
Trees beginning 1921′ from DER, 161′ left of centerline, up to 172′ MSL.
Trees beginning 2234′ from DER, 23′ left of centerline, up to 192′ MSL.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 30: Climb on heading 302° to 566, then climbing left turn direct SEEMS, continue climb in SEEMS holding pattern to at/above 3500 before proceeding on course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 32

HANFORD MUNI (HJO)

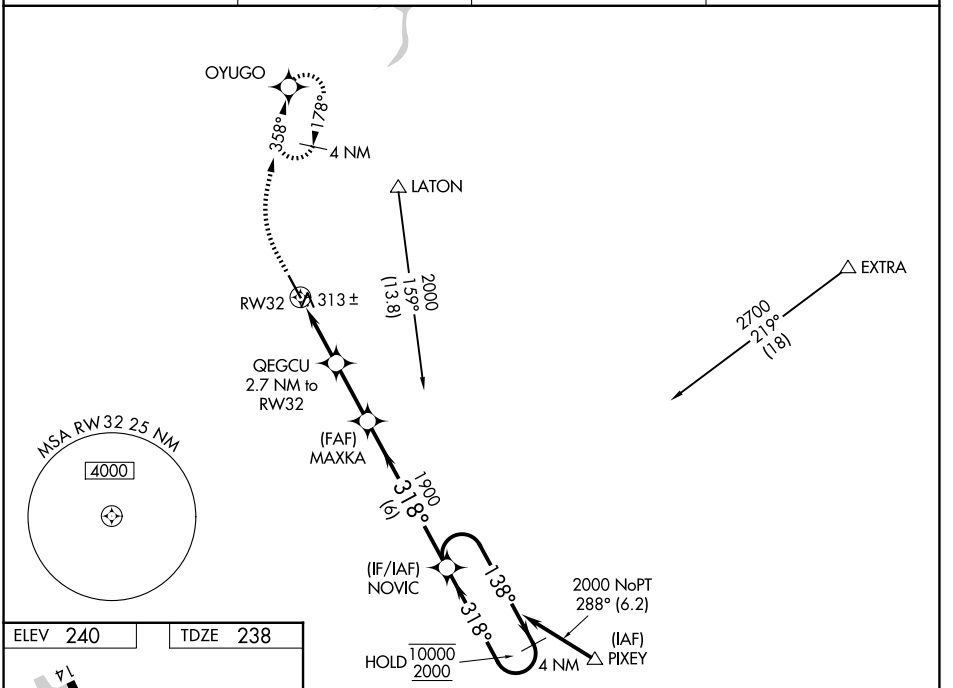
WAAS	APP CRS	Rwy Ldg	5179
CH 70344	318°	TDZE	238
W32A		Apt Elev	240

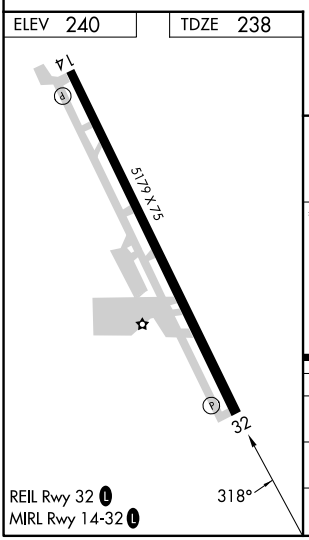
RNP APCH.

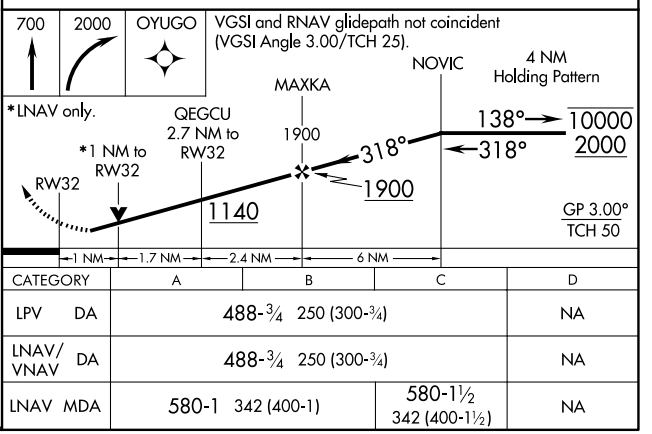
T Rwy 32 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C.

MISSED APPROACH: Climb to 700 then climbing right turn to 2000 direct OYUGO and hold, continue climb-in-hold to 2000.

ASOS	FRESNO APP CON	CLNC DEL	UNICOM
134.75	123.9	123.9	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	488-¾ 250 (300-¾)			NA
LNAV/VNAV DA	488-¾ 250 (300-¾)			NA
LNAV MDA	580-1 342 (400-1)		580-1½ 342 (400-1½)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS)-B

HANFORD MUNI (HJO)

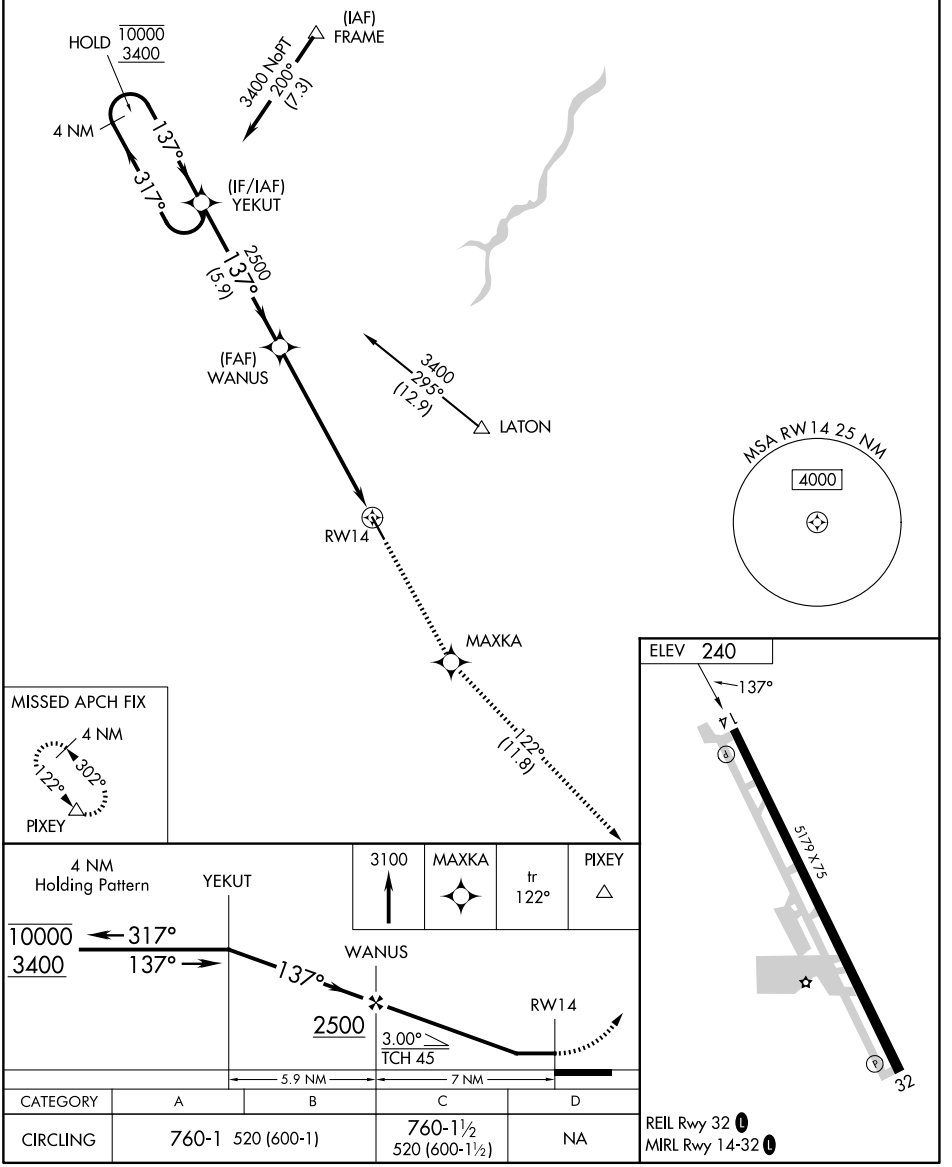
APP CRS	Rwy Ldg	N/A
137°	TDZE	N/A
	Apt Elev	240

RNP APCH.

Circling Rwy 14 NA at night.

MISSED APPROACH: Climb to 3100 direct MAXKA and on track 122° to PIXEY and hold.

ASOS	FRESNO APP CON	CLNC DEL	UNICOM
134.75	123.9	123.9	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	760-1 520 (600-1)		760-1½ 520 (600-1½)	NA

REIL Rwy 32 L
MIRL Rwy 14-32 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 28L

HAYWARD EXEC (HWD)

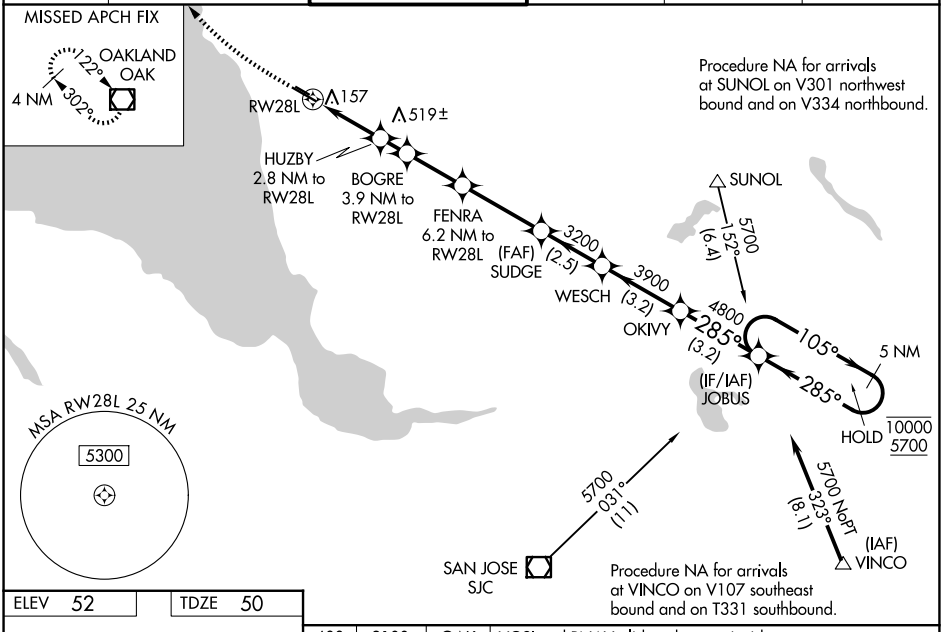
WAAS CH 40330 W28A	APP CRS 285°	Rwy Ldg 5018 TDZE 50 Apt Elev 52

RNP APCH - GPS.

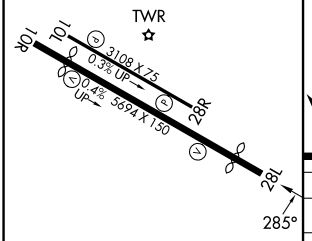
Baro-VNAV NA. Circling Rwy 10L, 28R NA at night. Rwy 28L helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use OAK altimeter setting and increase LPV DA to 370 feet; increase LNAV/VNAV DA to 461 feet; increase all MDAs 40 feet and LNAV visibility Cat C/D ¼ SM, and Circling visibility Cat D ¼ SM. Circling NA north of Rwy 10L-28R.

MISSED APPROACH: Climb to 600 then climbing right turn to 2100 direct OAK VOR/DME and hold.

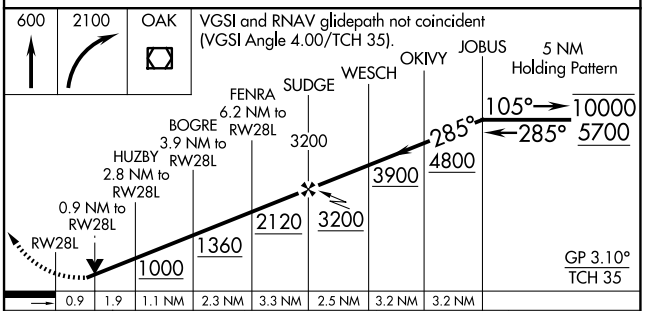
ATIS	NORCAL APP CON	HAYWARD TOWER★	GND CON	CLNC DEL	UNICOM
126.7	124.4 351.8	120.2 (CTAF) L 257.8	121.4	128.05	122.95



ELEV 52	TDZE 50



MIRL Rwy 10R-28L L
MIRL Rwy 10L-28R
REIL Rwys 10R and 28L



CATEGORY	A	B	C	D
LPV DA	348-1 298 (300-1)			
LNAV/VNAV DA	439-1⅛ 389 (400-1⅛)			
LNAV MDA	460-1 410 (500-1)		460-1⅛ 410 (500-1⅛)	
CIRCLING	540-1 488 (500-1)		540-1½ 488 (500-1½)	920-2¾ 868 (900-2¾)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-HWD	APP CRS	Rwy Ldg	5018
111.5	288°	TDZE	50
Chan 52		Apt Elev	52

LOC RWY 28L

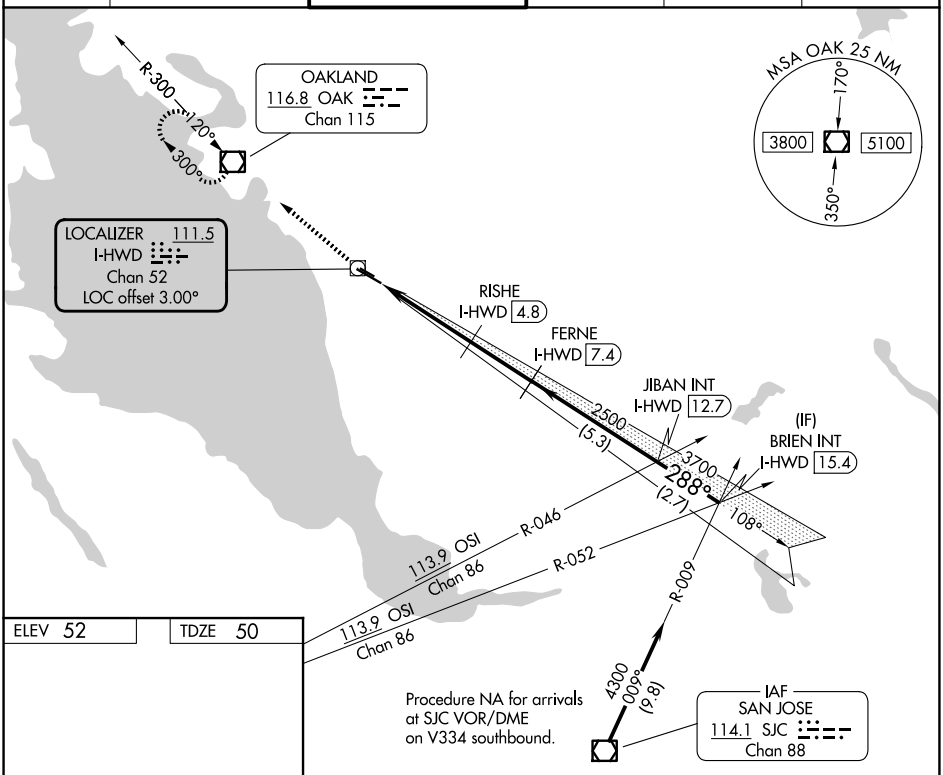
HAYWARD EXEC (HWD)

DME required.

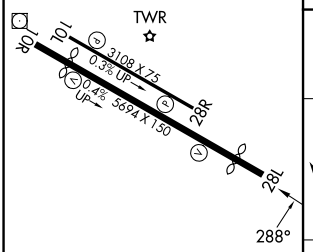
Rwy 28L helicopter visibility reduction below ¾ SM NA. Circling Rwy 10L, 28R NA at night. Circling NA north of Rwy 10L-28R. When local altimeter setting not received, use OAK altimeter setting and increase all MDAs 40 feet and Circling visibility Cat D 1¼ SM.

MISSED APPROACH: Climb to 2100 direct OAK VOR/DME and hold.

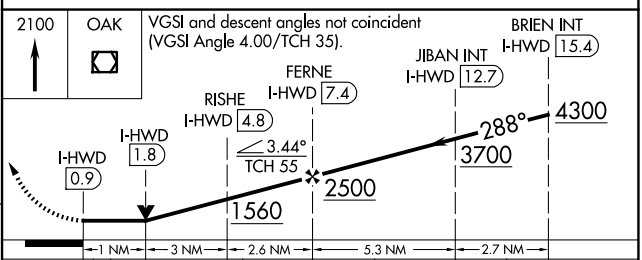
ATIS	NORCAL APP CON	HAYWARD TOWER ★	GND CON	CLNC DEL	UNICOM
126.7	124.4 351.8	120.2 (CTAF) L 257.8	121.4	128.05	122.95



ELEV 52 TDZ 50



MIRL Rwy 10R-28L L
MIRL Rwy 10L-28R
REIL Rwys 10R and 28L



CATEGORY	A	B	C	D
S-28L	500-1 450 (500-1)		500-1⅜ 450 (500-1⅜)	
CIRCLING	540-1 488 (500-1)		540-1½ 488 (500-1½)	920-2¾ 868 (900-2¾)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26134

AIRPORT DIAGRAM

AL-5015 (FAA)

HAYWARD EXEC (HWD)
HAYWARD, CALIFORNIA

AIRPORT DIAGRAM
26134
HAYWARD, CALIFORNIA
HAYWARD EXEC (HWD)

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Idg	6350
CH 70746	127°	TDZE	215
W13A		Apt Elev	231

RNAV (GPS) RWY 13

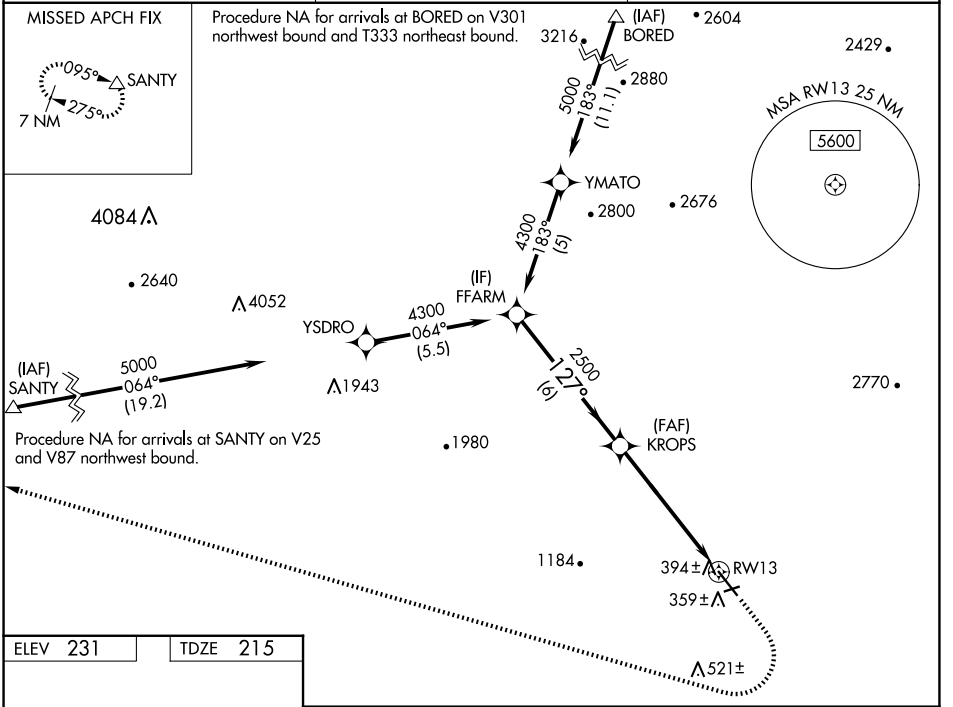
HOLLISTER MUNI (CVH)

RNP APCH - GPS.

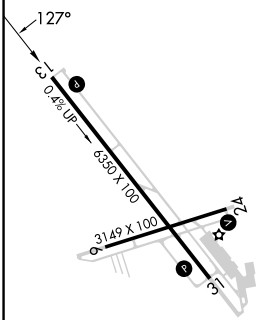
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

MISSED APPROACH: (Do not exceed 200 KIAS untill SANTY)
Climb to 1100 then climbing right turn to 7000 direct SANTY and hold.
*Missed approach requires minimum climb of 245 feet per NM to 1900.

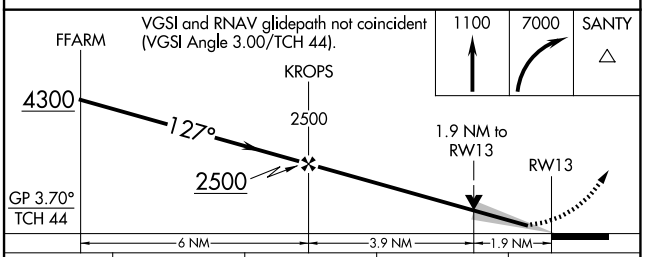
AWOS-3	NORCAL APP CON	UNICOM
120.425	124.525 348.675	123.0 (CTAF) L



ELEV 231	TDZE 215



MIRL Rwys 6-24 and 13-31 L
REIL Rwys 13, 24 and 31 L



CATEGORY	A	B	C	D
LPV DA	535-⅞ 320 (400-⅞)			NA
LNAV/VNAV DA	1055-2½ 840 (900-2½)			NA
LNAV/VNAV DA*	564-1 349 (400-1)			NA
LNAV MDA	840-1 625 (700-1)		840-1¾ 625 (700-1¾)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

HOLLISTER, CALIFORNIA | AL-6785 (FAA) | 24249

WAAS	APP CRS	Rwy Idg	6350
CH 93806	307°	TDZE	231
W31A		Apt Elev	231

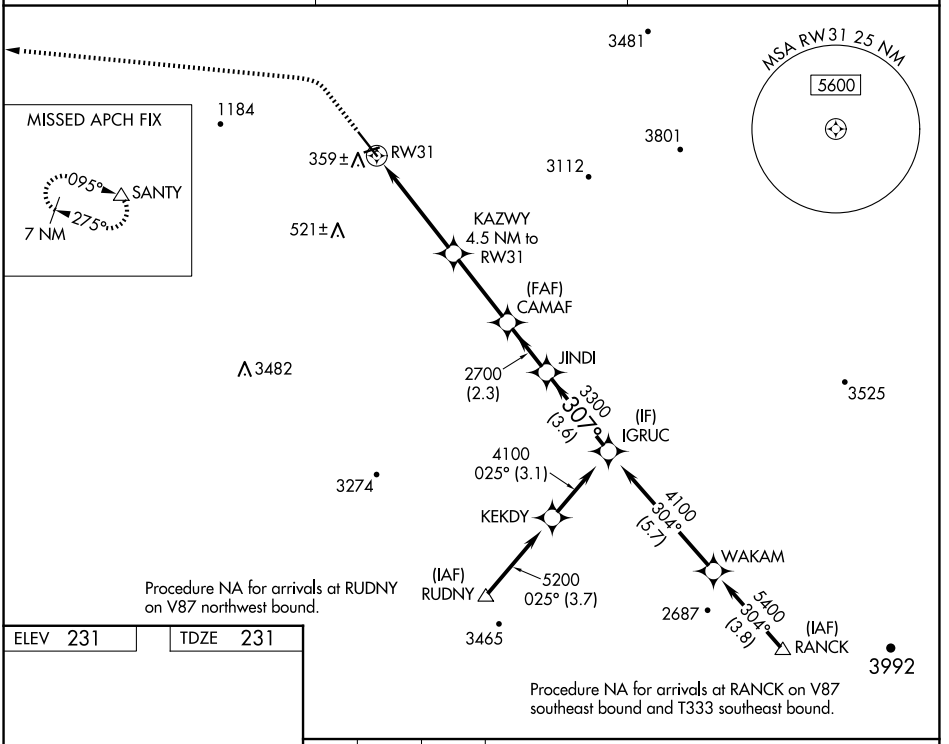
RNAV (GPS) RWY 31
HOLLISTER MUNI (CVH)

RNP APCH - GPS.

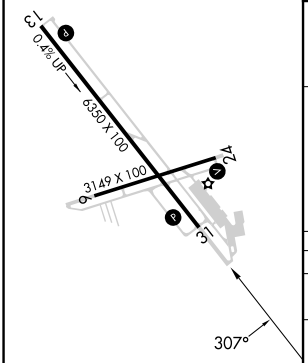
Rwy 31 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

MISSED APPROACH: Climb to 1200, then climbing left turn to 7000 direct SANTY and hold, continue climb-in-hold to 7000.

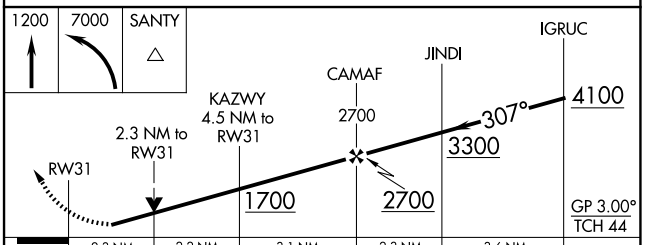
AWOS-3	NORCAL APP CON	UNICOM
120.425	124.525 348.675	123.0 (CTAF) L



ELEV 231 | TDZE 231



MIRL Rwys 6-24 and 13-31 L
REIL Rwys 13, 24 and 31 L



CATEGORY	A	B	C	D
LPV DA	657-1¼ 426 (500-1¼)			NA
LNAV/VNAV DA	750-1⅜ 519 (600-1⅜)			NA
LNAV MDA	1000-1 769 (800-1)	1000-1¼ 769 (800-1¼)	1000-2½ 769 (800-2½)	NA

HOLLISTER, CALIFORNIA
Amdt 2 05SEP24

36°54′N-121°25′W

HOLLISTER MUNI (CVH)
RNAV (GPS) RWY 31

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Idg	3401
006°	TDZE	1690
	Apt Elev	1694

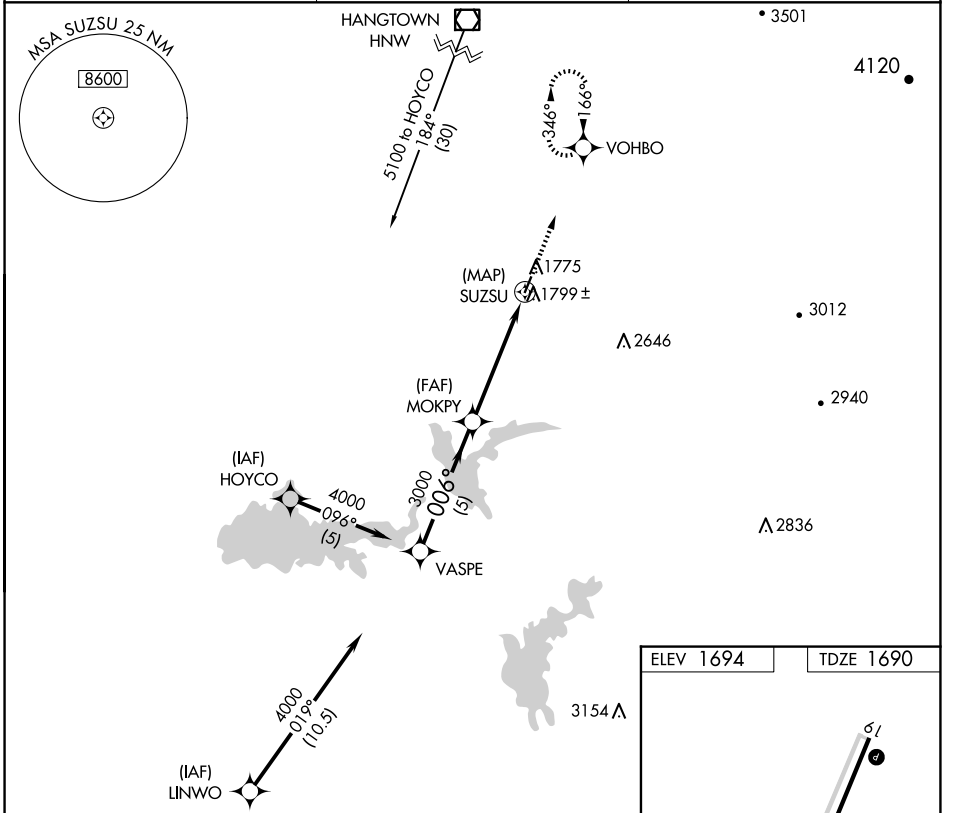
GPS RWY 1

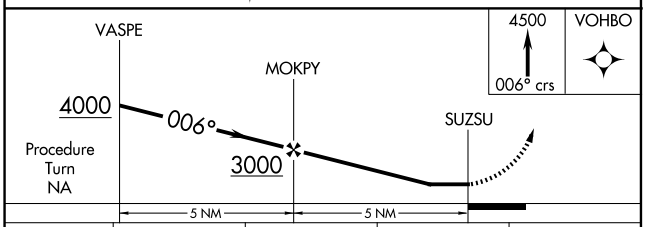
WESTOVER FLD AMADOR COUNTY (JAQ)

When local altimeter setting not received, use Sacramento Exec altimeter setting.

MISSED APPROACH: Climb to 4500 on 006° course to VOHBO and hold.

AWOS-3	NORCAL APP CON	UNICOM
121.125	125.1 363.2	123.075 (CTAF) L





CATEGORY	A	B	C	D
S-1	2060-1	370 (400-1)	NA	
SACRAMENTO EXEC ALTIMETER SETTING MINIMUMS				
S-1	2380-1	690 (700-1)	NA	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

JACKSON, CALIFORNIA AL-9086 (FAA) 21196

VOR/DME LIN	APP CRS	Rwy Idg	3401
114.8	012°	TDZE	1690
Chan 95		Apt Elev	1694

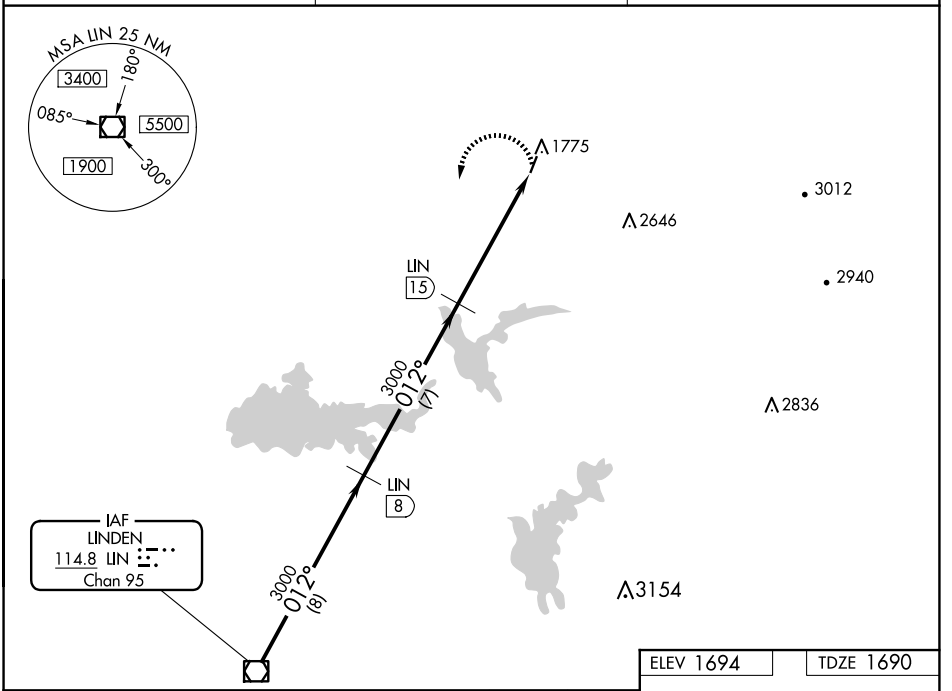
VOR/DME RWY 1

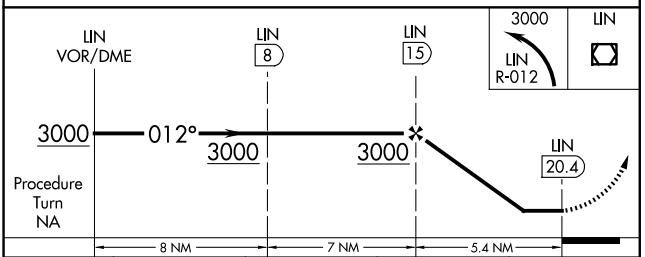
WESTOVER FLD AMADOR COUNTY (JAQ)

T NA — If local altimeter not received, use Sacramento Exec altimeter setting. Circling Rwy 19 NA at night.

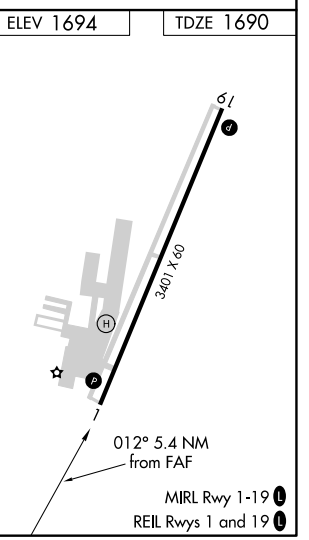
MISSED APPROACH: Climbing left turn to 3000 via LIN R-012 to LIN VOR/DME.

AWOS-3	NORCAL APP CON	UNICOM
121.125	125.1 363.2	123.075 (CTAF) L





CATEGORY	A	B	C	D
S-1	2080-1 390 (400-1)	2080-1¼ 390 (400-1¼)	NA	
CIRCLING	2200-1 506 (600-1)	2200-1¼ 506 (600-1¼)	NA	
SACRAMENTO EXEC ALTIMETER SETTING MINIMUMS				
S-1	2380-1 690 (700-1)	2380-1¼ 690 (700-1¼)	NA	
CIRCLING	2520-1 826 (900-1)	2520-1¼ 826 (900-1¼)	NA	



JACKSON, CALIFORNIA
Amdt 1D 15JUL21

38°23'N-120°48'W

WESTOVER FLD AMADOR COUNTY (JAQ)

VOR/DME RWY 1

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	4479
CH 53544	115°	TDZE	373
W11A		Apt Elev	374

RNAV (GPS) RWY 11

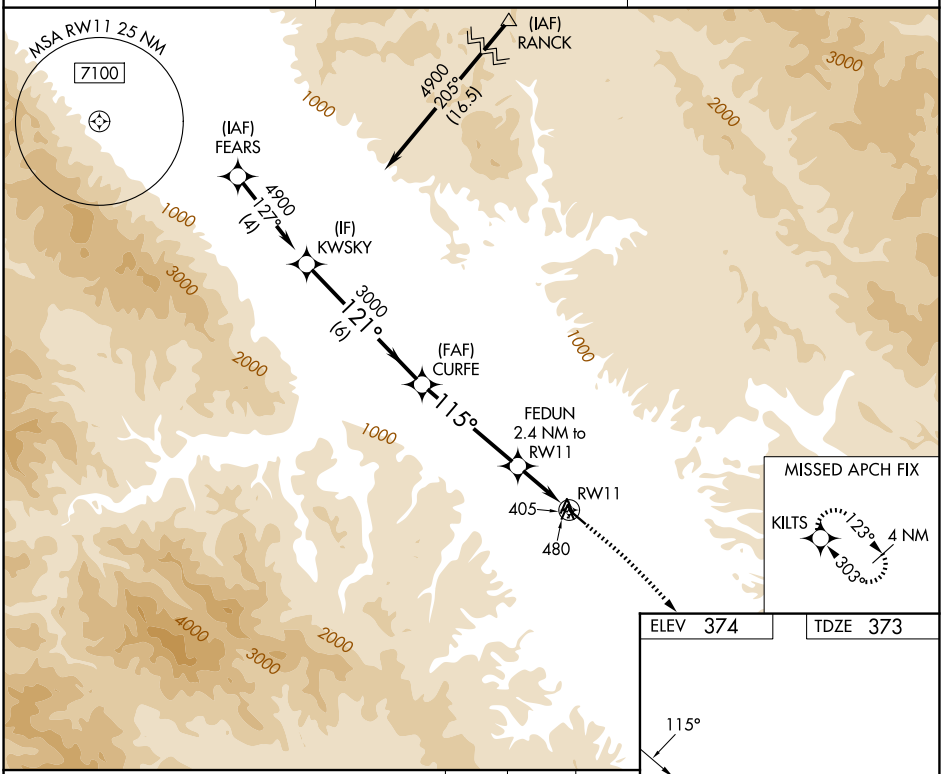
MESA DEL REY (KIC)

RNP APCH - GPS.

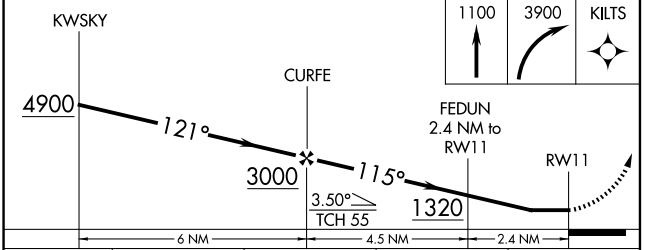
T A NA Rwy 11 helicopter visibility reduction below 1 SM NA. Use MRY altimeter setting; when not received, use SNS altimeter setting and increase all MDAs 20 feet.

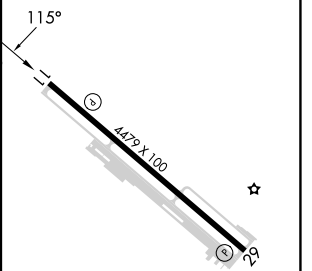
MISSED APPROACH: Climb to 1100 then climbing right turn to 3900 direct KILTS and hold.

MRY ASOS	OAKLAND CENTER	CTAF
119.25	128.7 307.0	122.9



ELEV 374 TDZE 373





CATEGORY	A	B	C	D
LP MDA	780-1	407 (500-1)	780-1 1/8	NA
			407 (500-1 1/8)	
LNAV MDA	860-1	487 (500-1)	860-1 3/8	NA
			487 (500-1 3/8)	

REIL Rwy 29
MIRL Rwy 11-29

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

KING CITY, CALIFORNIA | AL-9936 (FAA) | 26134

RNAV (GPS) RWY 29

MESA DEL REY (KIC)

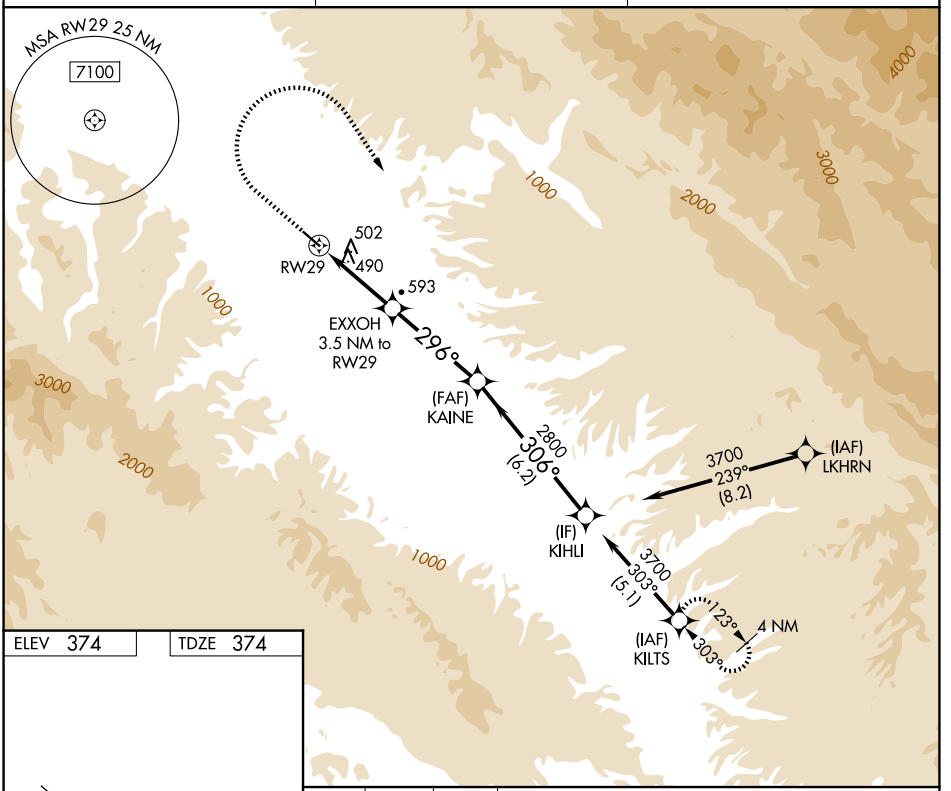
WAAS	APP CRS	Rwy Ldg	4479
CH 99544	296°	TDZE	374
W29A		Apt Elev	374

RNP APCH - GPS.

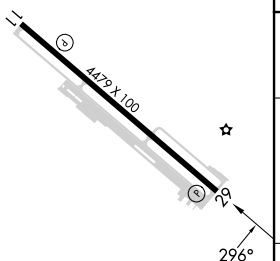
T NA — Use MRY altimeter setting; when not received, use SNS altimeter setting and increase all MDAs 20 feet.

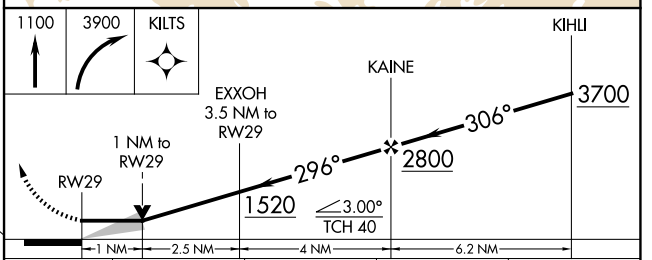
MISSED APPROACH: (Do not exceed 170K until KILTS) Climb to 1100 then climbing right turn to 3900 direct KILTS and hold.

MRY ASOS	OAKLAND CENTER	CTAF
119.25	128.7 307.0	122.9



ELEV 374 | TDZE 374





CATEGORY	A	B	C	D
LP MDA	840-1	466 (500-1)	840-1⅜ 466 (500-1⅜)	NA
LNAV MDA	880-1	506 (600-1)	880-1⅜ 506 (600-1⅜)	NA

REIL Rwy 29
MIRL Rwy 11-29

KING CITY, CALIFORNIA
Orig 26DEC24

36°14′N-121°07′W

MESA DEL REY (KIC)

RNAV (GPS) RWY 29

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS)-A

LAMPSON FLD (102)

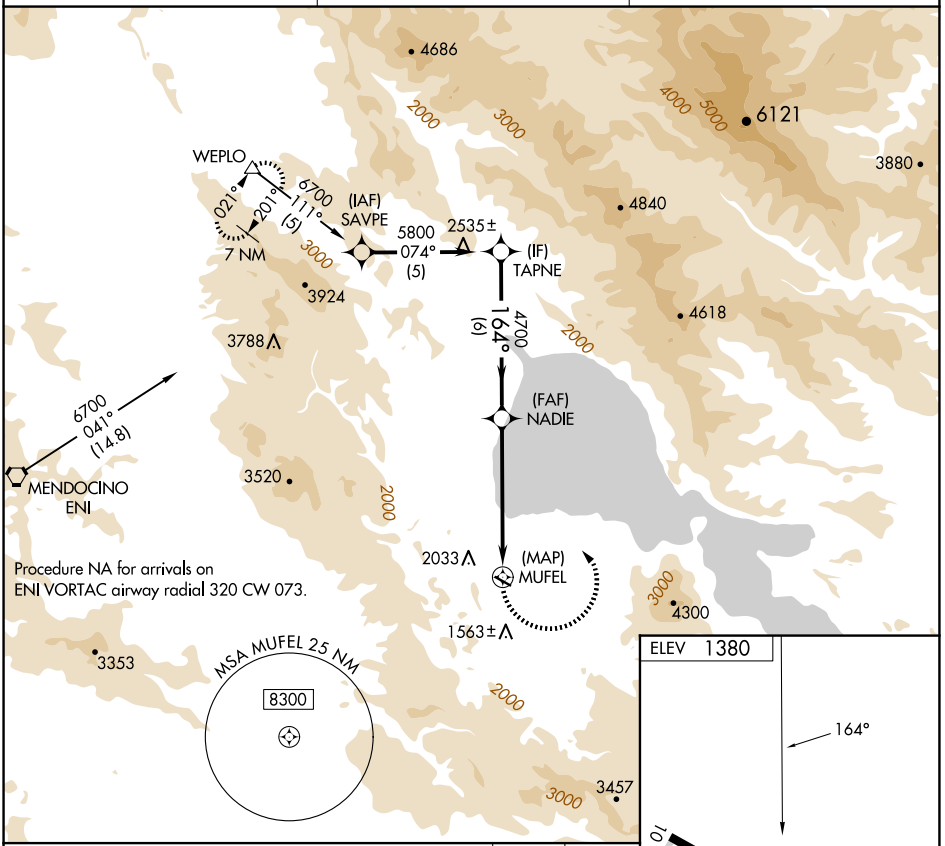
APP CRS	Rwy Idg	N/A
164°	TDZE	N/A
	Apt Elev	1380

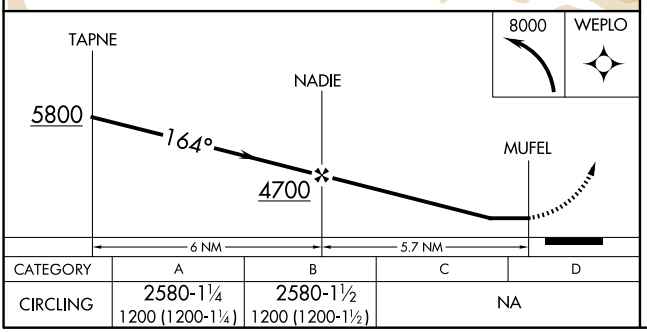
T NA

Circling NA south of Rwy 10-28. DME/DME RNP-0.3 NA. Procedure NA at night. When local altimeter setting not received, use Ukiah altimeter setting and increase all MDA 560 feet.

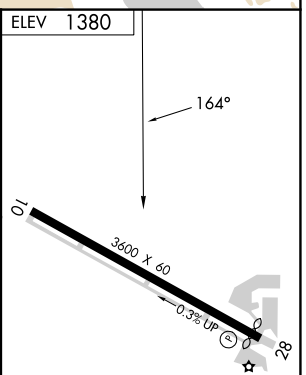
MISSED APPROACH: Climbing left turn to 8000 direct WEPLO and hold.

AWOS-3	OAKLAND CENTER	UNICOM
118.35	127.8 353.5	122.8 (CTAF) L





CATEGORY	A	B	C	D
CIRCLING	2580-1¼ 1200 (1200-1¼)	2580-1½ 1200 (1200-1½)	NA	



MIRL Rwy 10-28 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(LAKPT3.ENI) 21336

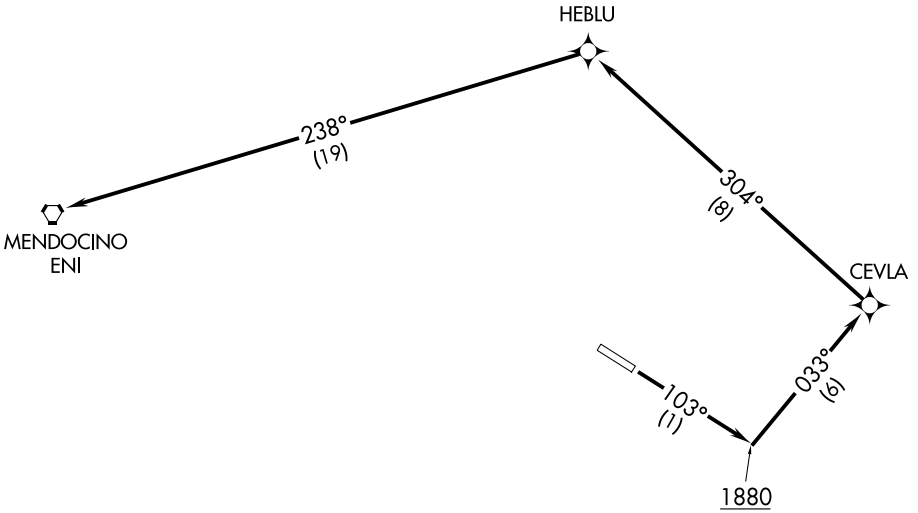
LAKEPORT THREE DEPARTURE (RNAV)

AL-6939 (FAA)

LAMPSON FLD (102)
LAKEPORT, CALIFORNIA

OAKLAND CENTER
127.8 353.5

TOP ALTITUDE: 6000



NOTE: GPS required.

NOTE: RNAV 1.

NOTE: Takeoff Rwy 10: Do not exceed 175K until passing HEBLU.

TAKEOFF MINIMUMS
Rwy 10: Standard with minimum climb of 496' per NM to 4500.
Rwy 28: NA- Rapidly rising terrain.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 10: Climb heading 103° to 1880, then climb on 033° course to CEVLA, then via 304° track to HEBLU, then via 238° track to ENI VORTAC, thence . . . .

. . . . via assigned route, expect clearance to filed altitude 10 minutes after departure.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

LEMOORE, CALIFORNIA

RNAV (GPS) RWY 14L

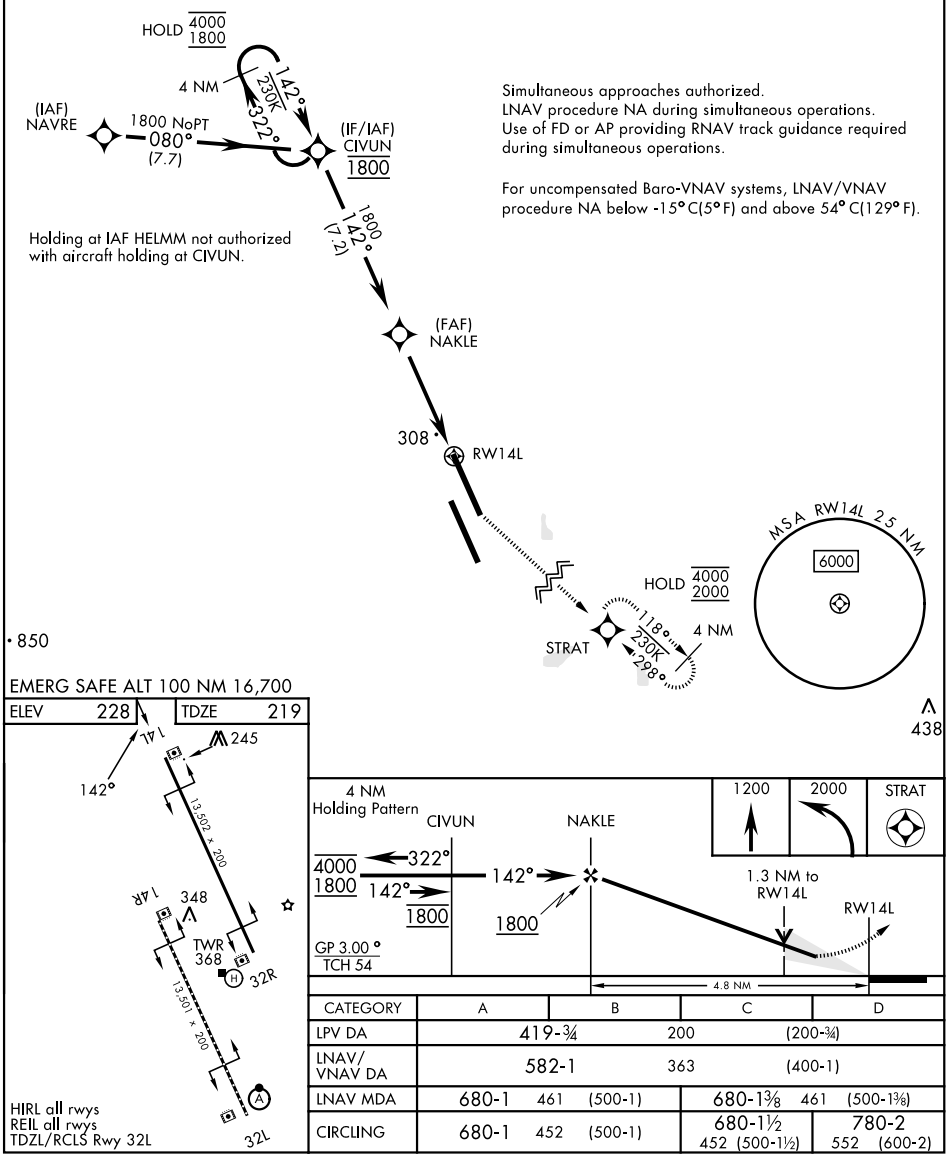
WAAS	APCH CRS	Rwy Idg 13,502
Chan 70209	142°	TDZE 219
W14A		Arpt Elev 228

[USN] LEMOORE NAS (REEVES FIELD) (KNLC)

RNP APCH - GPS

MISSED APPROACH: Climb to 1200, then climbing left turn to 2000 direct STRAT and hold.

ATIS★	APP CON	TOWER ★	GND CON	ASR/ PAR
121.575 327.15	124.1 269.025 (N) 118.15 269.025 (S)	128.3 340.2	121.65 305.2	



CATEGORY	A	B	C	D
LPV DA	419-¾	200	(200-¾)	
LNAV/ VNAV DA	582-1	363	(400-1)	
LNAV MDA	680-1 461 (500-1)		680-1⅜ 461 (500-1⅜)	
CIRCLING	680-1 452 (500-1)		680-1½ 452 (500-1½)	780-2 552 (600-2)

LEMOORE, CALIFORNIA 36°20'N-119°57'W LEMOORE NAS (REEVES FIELD) (KNLC)

Amdt 7 12JUN25

RNAV (GPS) RWY 14L

SW-2, 09 JUL 2026 to 03 SEP 2026

LEMOORE, CALIFORNIA

RNAV (GPS) RWY 14R

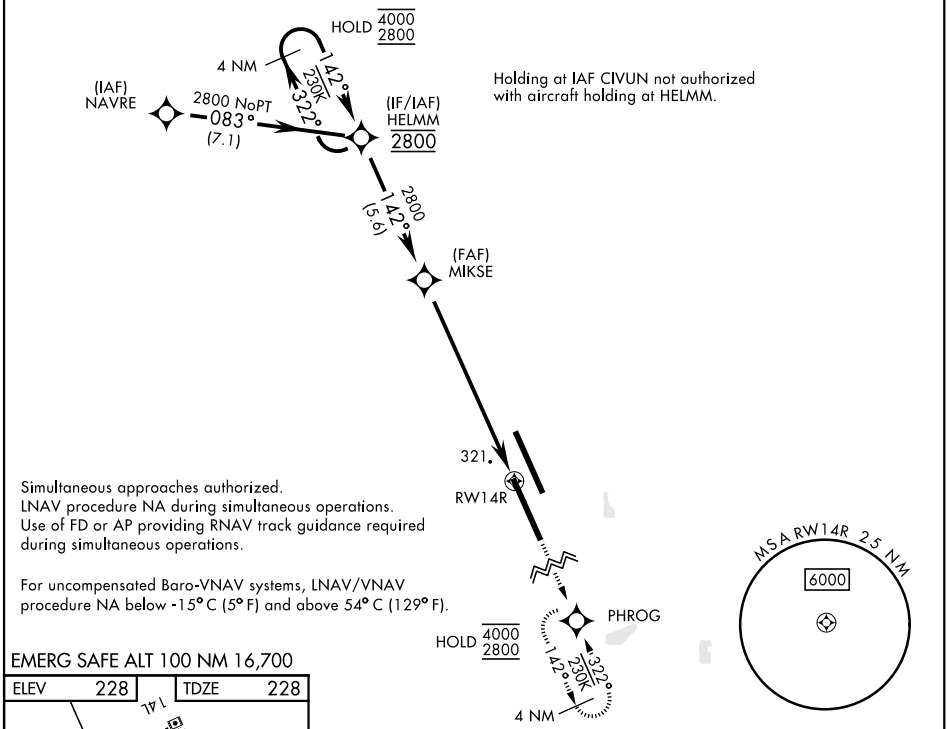
WAAS	APCH CRS	Rwy Idg 13,501
Chan 75978	142°	TDZE 228
W14B		Arpt Elev 228

[USN] LEMOORE NAS (REEVES FIELD) (KNLC)

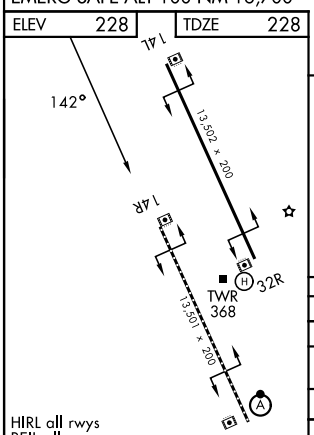
RNP APCH - GPS

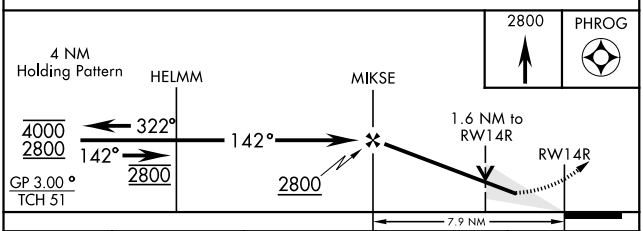
MISSED APPROACH: Climb to 2800 direct PHROG and hold.

ATIS★	APP CON	TOWER ★	GND CON	ASR/ PAR
121.575 327.15	124.1 269.025 (N) 118.15 269.025 (S)	128.3 360.2	121.65 305.2	



EMERG SAFE ALT 100 NM 16,700





CATEGORY	A	B	C	D
LPV DA	428-¾ 200 (200-¾)			
LNAV/ VNAV DA	594-1 366 (400-1)			
LNAV MDA	780-1 552 (600-1)		780-1⅝ 552 (600-1⅝)	
CIRCLING	780-1 552 (600-1)		780-1⅝ 552 (600-1⅝)	780-2 552 (600-2)

LEMOORE, CALIFORNIA 36°20'N-119°57'W LEMOORE NAS (REEVES FIELD) (KNLC)

Amdt 8 12JUN25

RNAV (GPS) RWY 14R

SW-2, 09 JUL 2026 to 03 SEP 2026

LEMOORE, CALIFORNIA

RNAV (GPS) RWY 32L

WAAS	APCH CRS	Rwy Idg 13,501
Chan 50085	322°	TDZE 227
W32A		Arpt Elev 228

[USN]

LEMOORE NAS (REEVES FIELD) (KNLC)

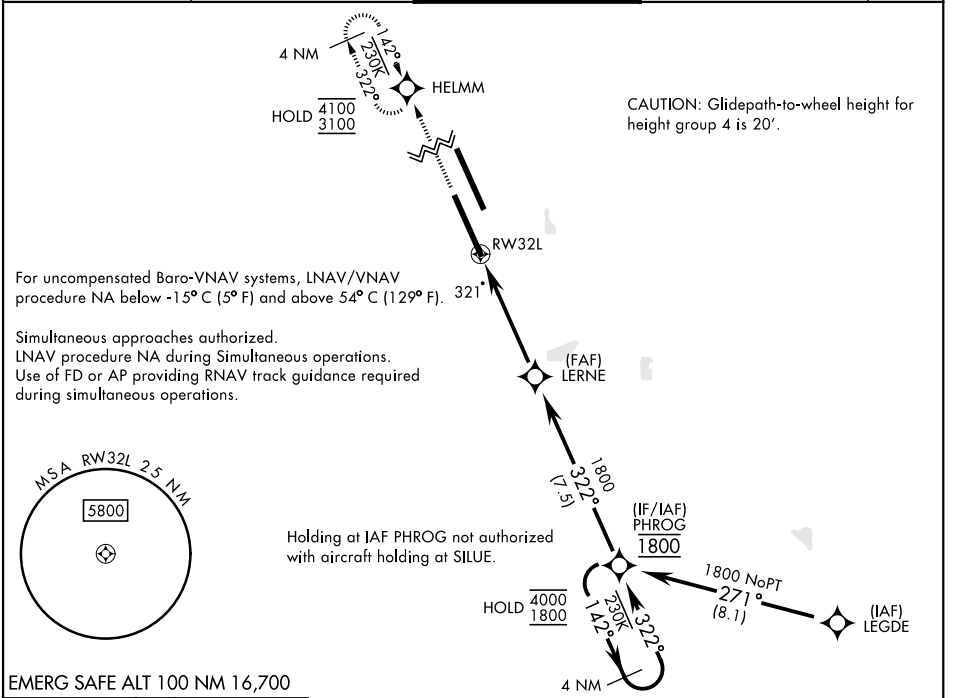
RNP APCH - GPS

* When ALS inop, increase vis to ¾ mile.
** When ALS inop, increase vis to 1 mile.
*** When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1⅜ miles.

ALSF-2

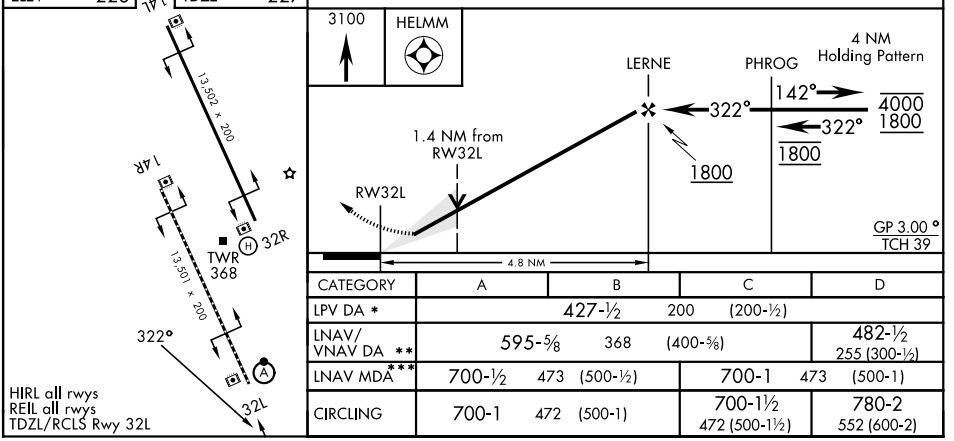
MISSED APPROACH: Climb to 3100 direct HELMM and hold.

ATIS★	APP CON	TOWER ★	GND CON	ASR/PAR
121.575 327.15	124.1 269.025 (N) 118.15 269.025 (S)	128.3 340.2	121.65 305.2	



EMERG SAFE ALT 100 NM 16,700

ELEV 228	TDZE 227



CATEGORY	A	B	C	D
LPV DA *	427-½ 200 (200-½)			
LNAV/VNAV DA **	595-⅝ 368 (400-⅝)			482-½ 255 (300-½)
LNAV MDA ***	700-½ 473 (500-½)		700-1 473 (500-1)	
CIRCLING	700-1 472 (500-1)		700-1½ 472 (500-1½)	780-2 552 (600-2)

HIRL all rwys
REIL all rwys
TDZL/RCLS Rwy 32L

LEMOORE, CALIFORNIA
Amdt 7 12JUN25

36°20'N-119°57'W

LEMOORE NAS (REEVES FIELD) (KNLC)

RNAV (GPS) RWY 32L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LEMOORE, CALIFORNIA

RNAV (GPS) RWY 32R

WAAS	APCH CRS	Rwy Idg 13,502
Chan 60335	322°	TDZE 221
W32B		Arpt Elev 228

[USN] LEMOORE NAS (REEVES FIELD) (KNLC)

RNP APCH - GPS

MISSED APPROACH: Climb to 1200, then climbing right turn to 2000 direct HAYEN and hold.

ATIS★	APP CON	TOWER ★	GND CON	ASR/ PAR
121.575 327.15	124.1 269.025 (N) 118.15 269.025 (S)	128.3 360.2	121.65 305.2	

4 NM 163° 343° 230K HAYEN

HOLD 4000 2000

RW32R

Simultaneous approaches authorized.
LNAV procedure NA during simultaneous operations.
Use of FD or AP providing RNAV track guidance required during simultaneous operations.

For uncompensated Baro-VNAV systems, LNAV/VNAV procedure NA below -15° C (5° F) and above 54° C (129° F).

OYISU

(FAF) CILUN

2800 (8) 322°

(IF/IAF) SILUE 2800

2800 NoPT 260° (6.3) (IAF) LEGDE

MSA RW32R 2.5 NM 5800

Holding at IAF SILUE not authorized with aircraft holding at PHROG.

142° 230K 322°

HOLD 4000 2800

4 NM

EMER SAFE ALT 100 NM 16,700

ELEV 228	TDZE 221

1 AL

13,502 × 200

1 AR

TWR 368

32R

13,501 × 200

322°

32L

HIRL all rwys
REIL all rwys
TDZL/RCLS Rwy 32L

1200 2000 HAYEN

4 NM Holding Pattern

OYISU CILUN SILUE

1.3 NM from RW32R

RW32R

322° 142° 4000 2800

322° 2800

800

2800

GP 3.00°
TCH 45

5 NM 3 NM

CATEGORY	A	B	C	D
LPV DA	421-¾	200	(200-¾)	
LNAV/ VNAV DA	587-1	366	(400-1)	
LNAV MDA	680-1 459 (500-1)		680-1⅜ 459 (500-1⅜)	
CIRCLING	680-1 452 (500-1)		680-1½ 452 (500-1½)	780-2 552 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

LEMOORE, CALIFORNIA

TACAN Y RWY 14L

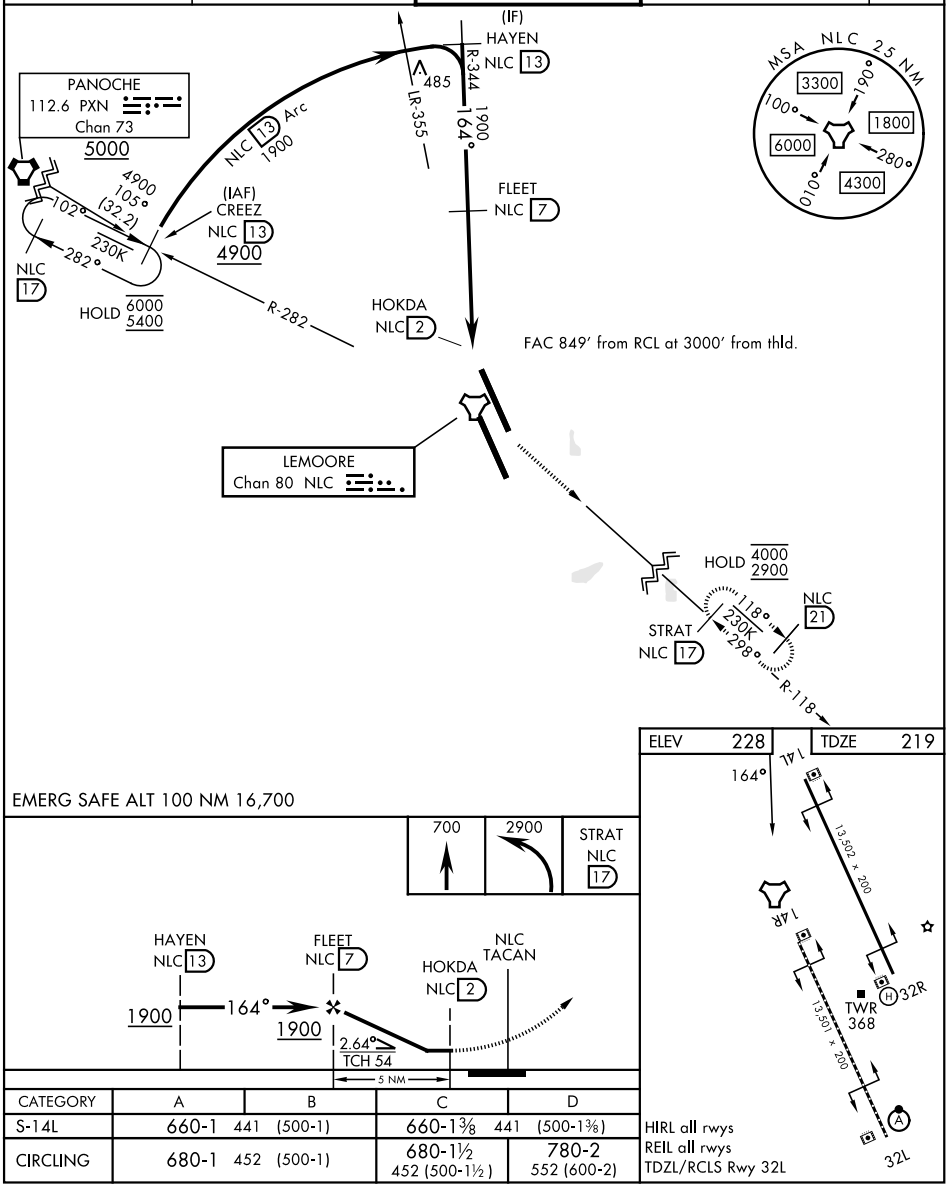
TACAN	APCH CRS	Rwy Idg	TDZE	Arpt Elev
NLC Chan 80	164°	13,502	219	228

[USN]

LEMOORE NAS (REEVES FIELD) (KNLC)

MISSED APPROACH: Climb to 700 then climbing left turn to 2900 direct STRAT and hold.

ATIS★	APP CON	TOWER ★	GND CON	ASR/PAR
121.575 327.15	124.1 269.025 (N) 118.15 269.025 (S)	128.3 340.2	121.65 305.2	



CATEGORY	A	B	C	D
S-14L	660-1 441 (500-1)		660-1⅜ 441 (500-1⅜)	
CIRCLING	680-1 452 (500-1)		680-1½ 452 (500-1½)	780-2 552 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LEMOORE, CALIFORNIA

TACAN Y RWY 32L

TACAN	APCH CRS	Rwy Idg	TDZE	Arpt Elev
NLC Chan 80	322°	13,501	227	228

[USN]

LEMOORE NAS (REEVES FIELD) (KNLC)

* When ALS inop, increase vis to 1 mile.

ALSF-2

MISSED APPROACH: Climb to 2900 via NLC R-322 to HELMM and hold.

ATIS★	APP CON	TOWER ★	GND CON	ASR/PAR
121.575 327.15	124.1 269.025 (N) 118.15 269.025 (S)	128.3 340.2	121.65 305.2	

Simultaneous approaches authorized.

Holding at HELMM not authorized with aircraft holding at CIVUN.

NLC 17 142° 230K 322°

HELMM NLC 13

HOLD 6000 2900

LEMOORE Chan 80 NLC

SUZIQ NLC 3.4

330°

OWLES NLC 5

PHARO NLC 7

322° 1800 (6)

(IF) HORNN NLC 13

3000 (7)

(IAF) TULAR NLC 20

HOLD FL200 3000

230K 142° 3000 322°

(IAF) HAWKK NLC 30 11,000

NLC 26

11,000 026° (19.2)

R-142

11,000 295° (38.7)

(AVE transition requires VOR)

AVENAL 117.1 AVE Chan 118

SHAFTER 115.4 EHF Chan 101

MSA NLC 2.5 NM

3300 190° 100° 1800 6000 280° 010° 4300

EMERG SAFE ALT 100 NM 16,700

ELEV 228 | TDZE 227

1AL 13,502 × 200

1AR 13,501 × 200

TWR 368

32R 32L

322°

HIRL all rwys
REIL all rwys
TDZL/RCLS Rwy 32L

2900 NLC R-322

HELMM NLC 13

HORNN NLC 13 3000

PHARO NLC 7

322°

NLC TACAN

SUZIQ NLC 3.4

OWLES NLC 5

3.38° TCH 50

1800

1080

1.6 NM | 2 NM

CATEGORY	A	B	C	D
S-32L*	580-½ 353 (400-½)		580-⅝ 353 (400-⅝)	
CIRCLING	680-1 452 (500-1)		680-1½ 452 (500-1½)	780-2 552 (600-2)

LEMOORE, CALIFORNIA

Amdt 9 12JUN25

36°20'N-119°57'W

LEMOORE NAS (REEVES FIELD) (KNLC)

TACAN Y RWY 32L

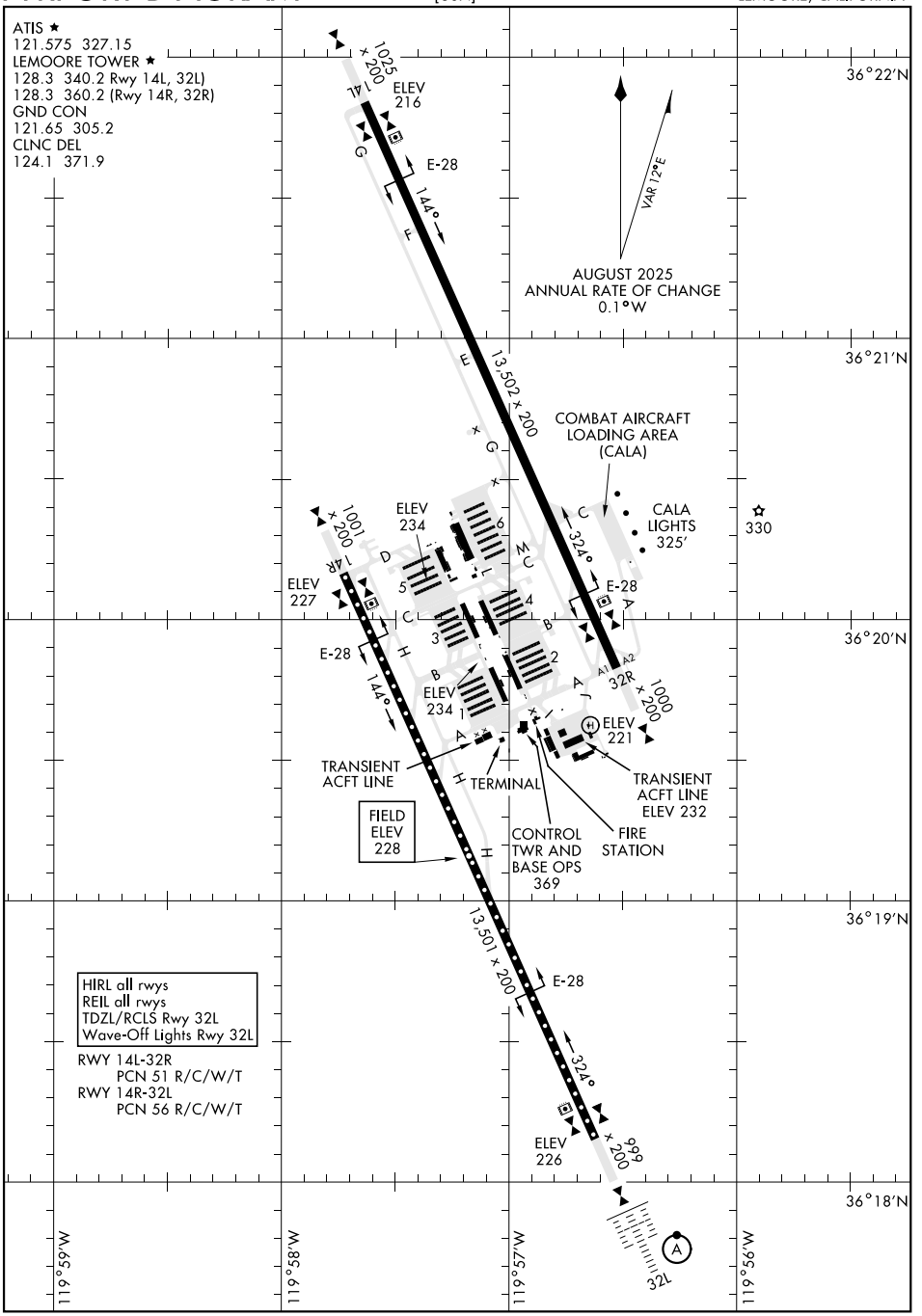
SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM

LEMOORE NAS (REEVES FIELD) (KNLC)

[USN]

LEMOORE, CALIFORNIA



AIRPORT DIAGRAM

LEMOORE, CALIFORNIA

LEMOORE NAS (REEVES FIELD) (KNLC)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

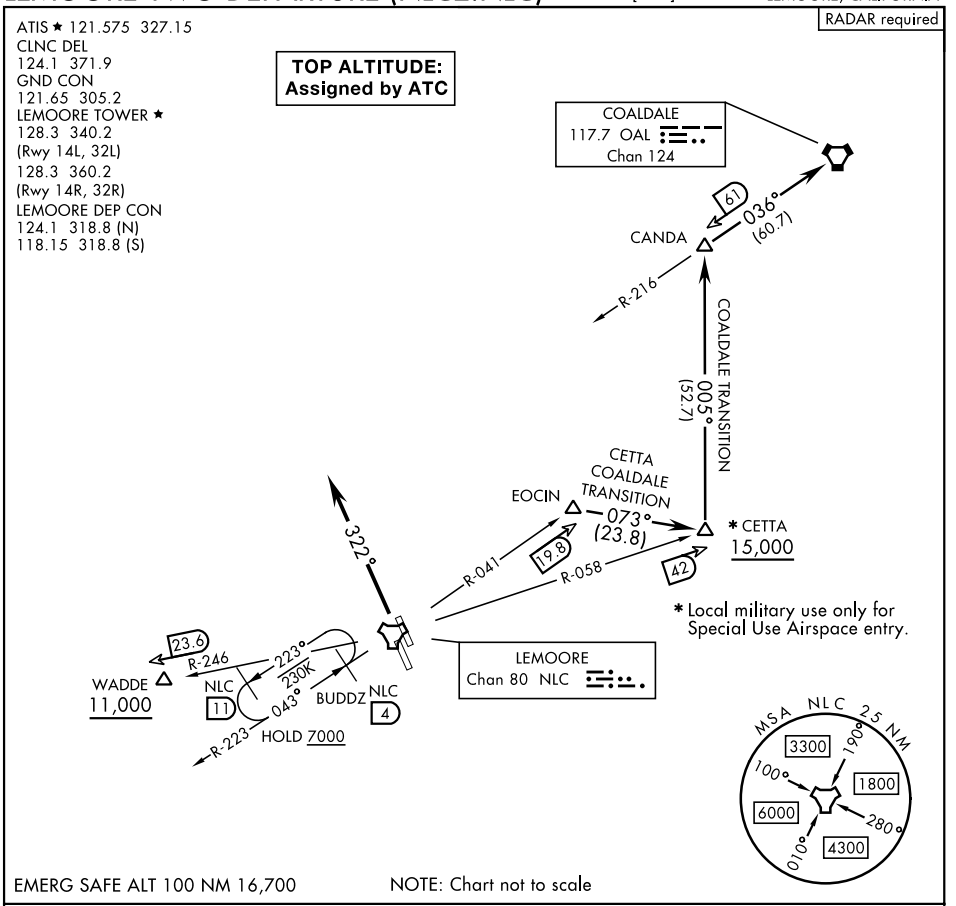
25163

LEMOORE NAS (REEVES FIELD) (KNLC)

LEMOORE-TWO DEPARTURE (NLC2.NLC)

[USN] LEMOORE, CALIFORNIA

SW-2, 09 JUL 2026 to 03 SEP 2026



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 32L/32R: Climb to 2000 via hdg 322° then RADAR vectors to join assigned transition or route.

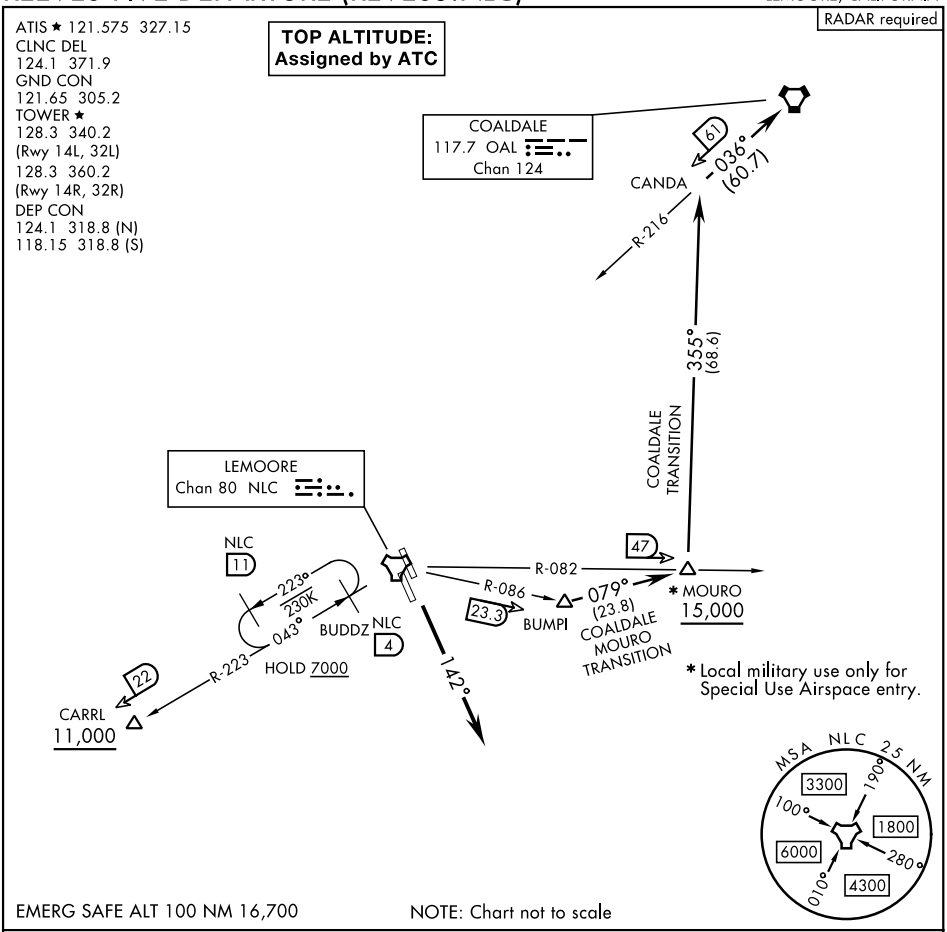
CETTA TRANSITION (NLC2.CETTA): From EOCIN direct CETTA then as filed. Cross CETTA at or above 15,000.

COALDALE TRANSITION (NLC2.OAL): From EOCIN direct CETTA, direct CANDA, direct COALDALE VORTAC. Cross CETTA at or above 15,000.

WADDE TRANSITION (NLC2.WADDE): From WADDE then as filed. Cross WADDE at or above 11,000.

LOST COMMUNICATIONS: If no transmissions are received within 8 DME of NLC TACAN, fly departure heading to intercept NLC 10 DME arc, arc to respective departure radial then via departure radial to assigned departure fix. Then via assigned route. Once established on departure radial climb to filed altitude.

REEVES-FIVE DEPARTURE (REVES5.NLC)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14L/14R: Climb to 2000 via hdg 142° then radar vectors to join assigned transition or route.

CARRL TRANSITION (REVES5.CARRL): From CARRL thence as filed. Cross CARRL at or above 11,000.

COALDALE TRANSITION (REVES5.OAL): From BUMPI direct MOURO, direct CANDA, direct COALDALE VORTAC. Cross MOURO at or above 15,000.

MOURO TRANSITION (REVES5.MOURO): From BUMPI direct MOURO then as filed.

LOST COMMUNICATIONS: If no transmissions are received within 8 DME of NLC TACAN, fly departure heading to intercept NLC 10 DME arc, arc to respective departure radial then via departure radial to assigned departure fix. Then via assigned route. Once estalished on departure radial climb to filed altitude.

LOC/DME I-LHM	APP CRS	Rwy Idg	6001
108.75	151°	TDZE	121
Chan 24 (Y)		Apt Elev	121

ILS or LOC RWY 15

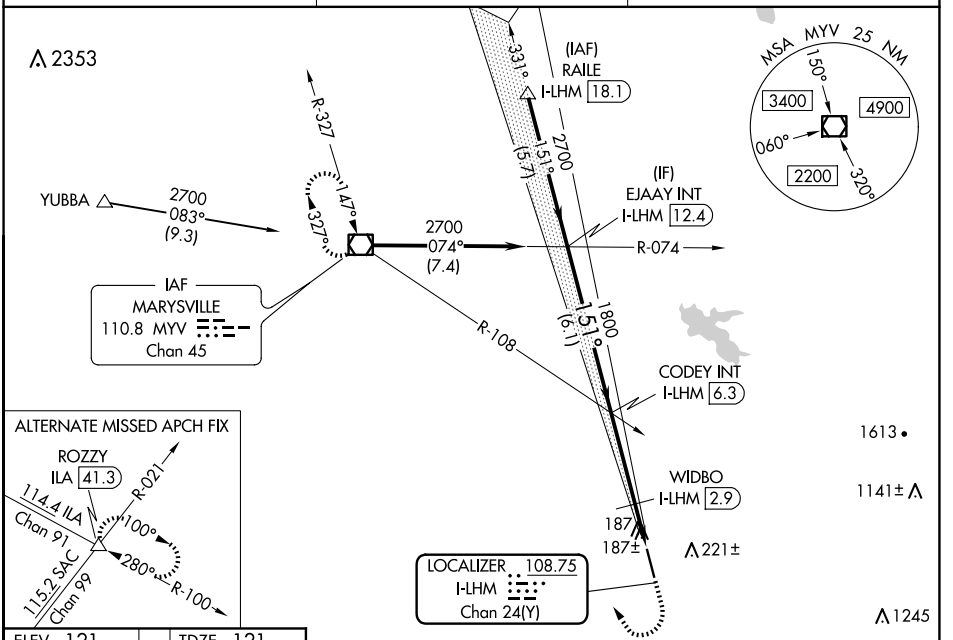
LINCOLN RGNL/KARL HARDER FLD (LHM)

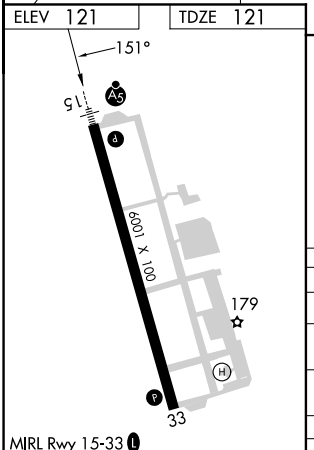
When local altimeter setting not received, use Beale AFB altimeter setting and increase DA to 361 feet and all MDAs 40 feet; increase S-LOC 15 Cat C/D and Circling Cat D visibility ¼ SM. VDP NA with Beale AFB altimeter setting. WIDBO fix minimums: for inop ALS, increase S-LOC 15 Cat D visibility to 1 mile.

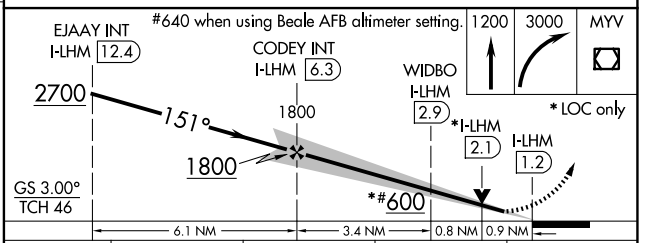
MALSR

MISSED APPROACH: Climb to 1200 then climbing right turn to 3000 direct MYV VOR/DME and hold.

AWOS-3	NORCAL APP CON	UNICOM
124.25	125.4 259.1	123.0 (CTAF)







CATEGORY	A	B	C	D
S-ILS 15	321-½ 200 (200-½)			
S-LOC 15	600-½ 479 (500-½)		600-¾ 479 (500-¾)	600-1 479 (500-1)
CIRCLING	600-1 479 (500-1)		600-1½ 479 (500-1½)	760-2 639 (700-2)
WIDBO FIX MINIMUMS				
S-LOC 15	460-½ 339 (400-½)			460-¾ 339 (400-¾)
CIRCLING	520-1 399 (400-1)	580-1 459 (500-1)	600-1½ 479 (500-1½)	760-2 639 (700-2)

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 15

LINCOLN RGNL/KARL HARDER FLD (LHM)

WAAS CH 82618 W15A	APP CRS 151°	Rwy Idg 6001 TDZE 121 Apt Elev 121

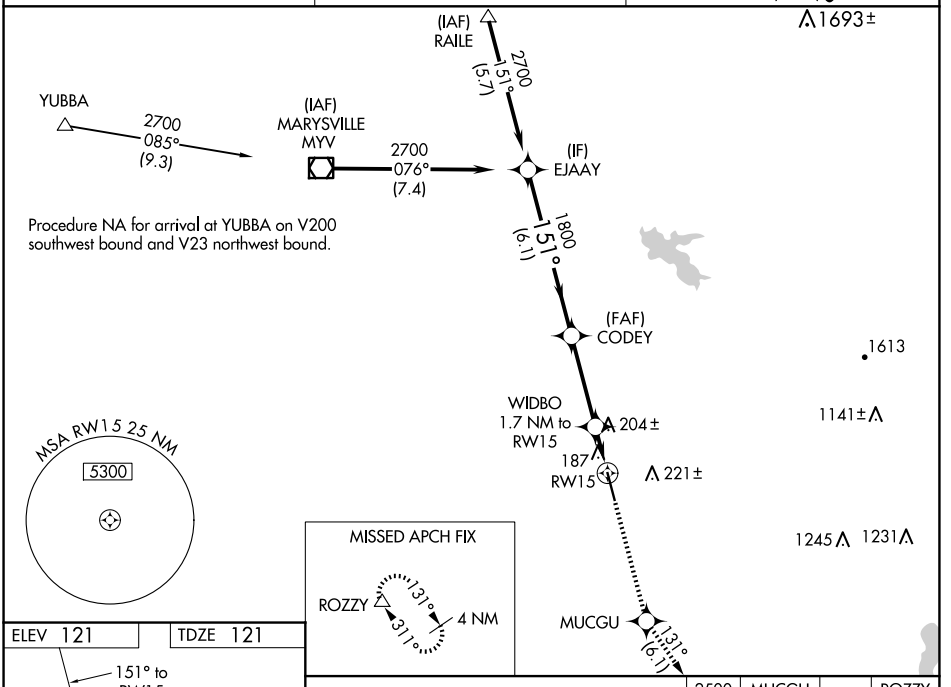
RNP APCH.

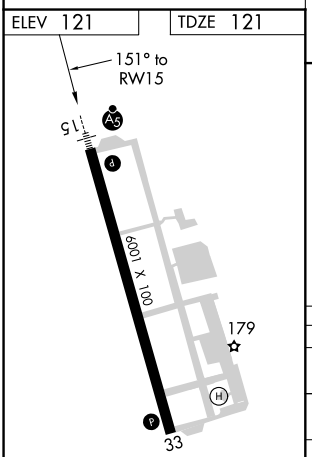
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 48°C.
VDP and Baro-VNAV NA when using Beale AFB altimeter setting. When local altimeter setting not received, use Beale AFB altimeter setting and increase LPV DA to 361 feet; increase LNAV/VNAV DA to 492 feet; increase all MDAs 40 feet and increase Circling Cat D visibility ¼ SM. For inop ALS when using Beale AFB altimeter setting, increase LNAV Cat D visibility to 1¼.

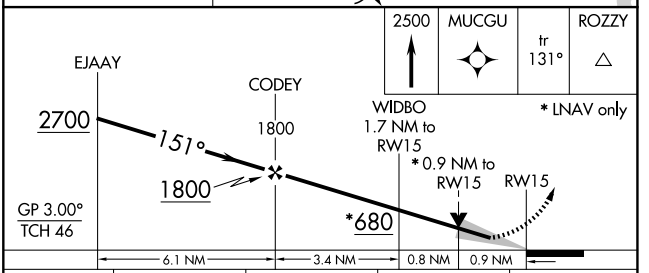
MALSR

MISSED APPROACH: Climb to 2500 direct MUCGU and on track 131° to ROZZY and hold.

AWOS-3	NORCAL APP CON	UNICOM
124.25	125.4 259.1	123.0 (CTAF)







CATEGORY	A	B	C	D
LPV DA	321-½ 200 (200-½)			
LNAV/VNAV DA	452-¾ 331 (400-¾)			
LNAV MDA	460-½ 339 (400-½)			460-1 339 (400-1)
CIRCLING	520-1 399 (400-1)	580-1 459 (500-1)	600-1½ 479 (500-1½)	760-2 639 (700-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LINCOLN, CALIFORNIA | AL-5850 (FAA) | 21140

APP CRS	Rwy Idg	6001
331°	TDZE	121
	Apt Elev	121

RNAV (GPS) RWY 33

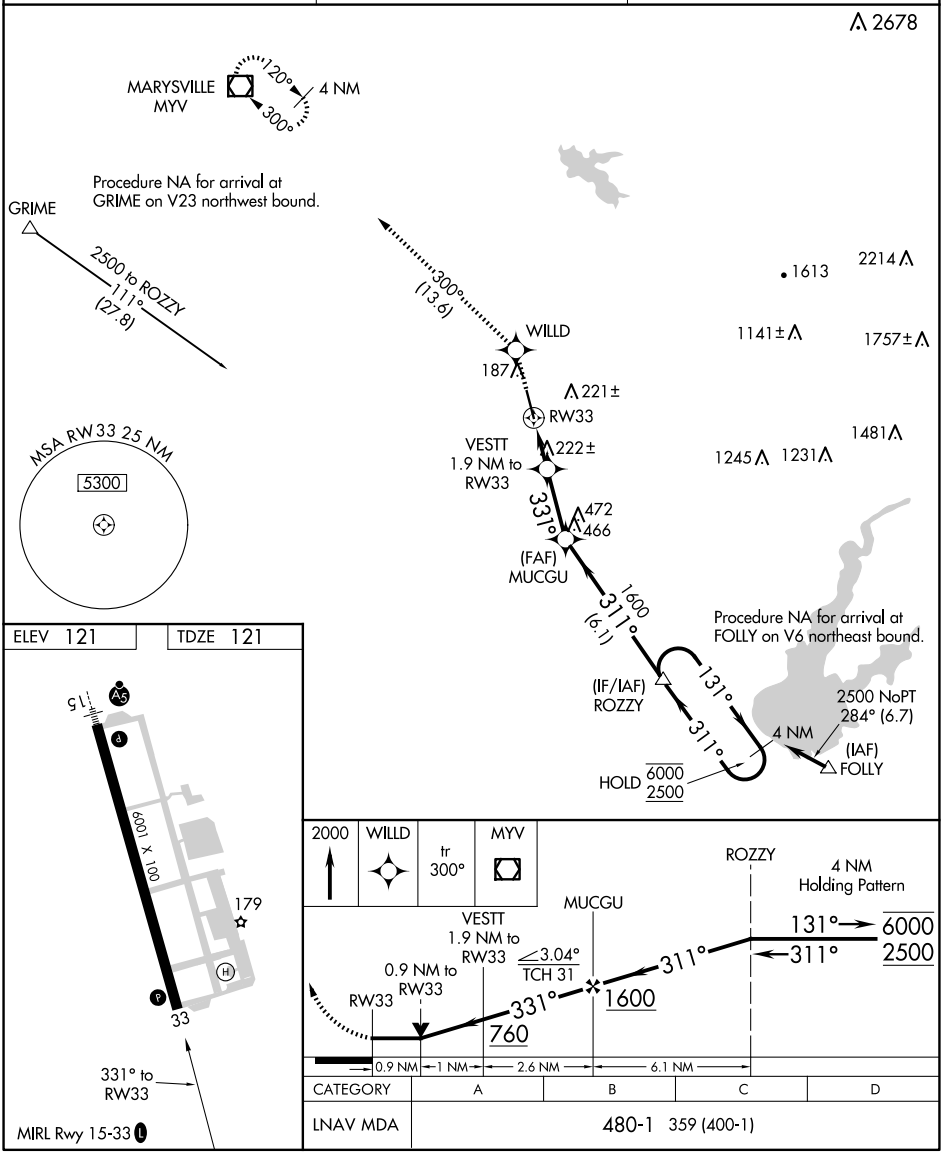
LINCOLN RGNL/KARL HARDER FLD (LHM)

RNP APCH.

Rwy 33 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Beale AFB altimeter setting and increase all MDA 40 feet, and increase LNAV Cat C/D visibility ⅛ mile. VDP NA with Beale AFB altimeter setting.

MISSED APPROACH: Climb to 2000 direct WILLD and on track 300° to MYV VOR/DME and hold.

AWOS-3	NORCAL APP CON	UNICOM
124.25	125.4 259.1	123.0 (CTAF) L



LINCOLN, CALIFORNIA

Orig-B 07NOV19

LINCOLN RGNL/KARL HARDER FLD (LHM)

38°55′N-121°21′W

RNAV (GPS) RWY 33

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	5249
CH 77829	293°	TDZE	574
W29A		Apt Elev	574

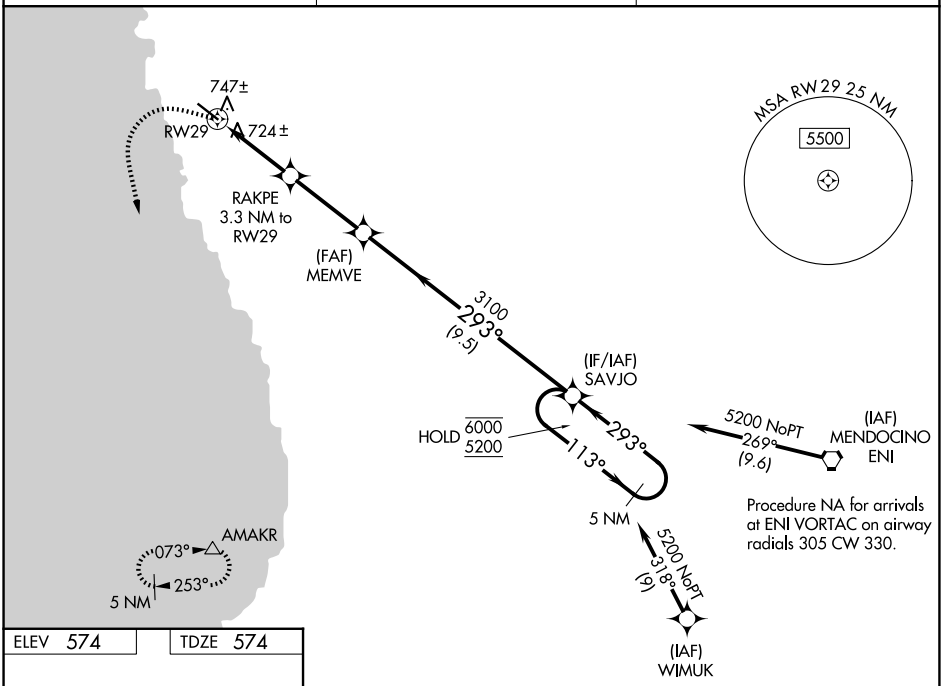
RNAV (GPS) RWY 29
LITTLE RIVER (LLR)

RNP APCH.

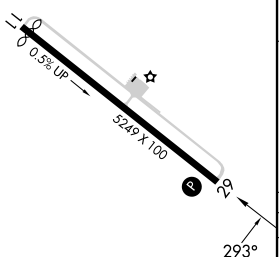
Circling NA northeast of Rwy 11-29.
Procedure NA at night.
Rwy 29 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 6000 direct AMAKR and hold, continue climb-in-hold to 6000.

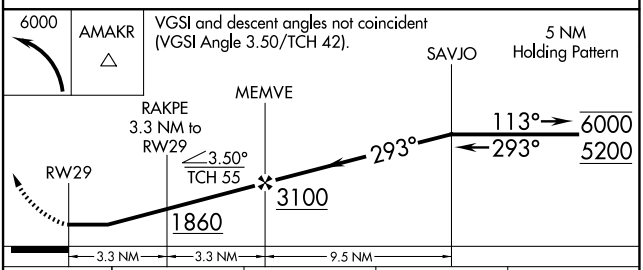
AWOS-3	OAKLAND CENTER	AUNICOM
121.125	132.2 350.3	122.7 (CTAF) L



ELEV 574 TDZE 574



MIRL Rwy 11-29 L



CATEGORY	A	B	C	D
LP MDA	980-1 406 (500-1)		980-1⅛ 406 (500-1⅛)	
LNAV MDA	1000-1 426 (500-1)		1000-1¼ 426 (500-1¼)	
CIRCLING	1040-1 466 (500-1)		1080-1½ 506 (600-1½)	1400-2¾ 826 (900-2¾)

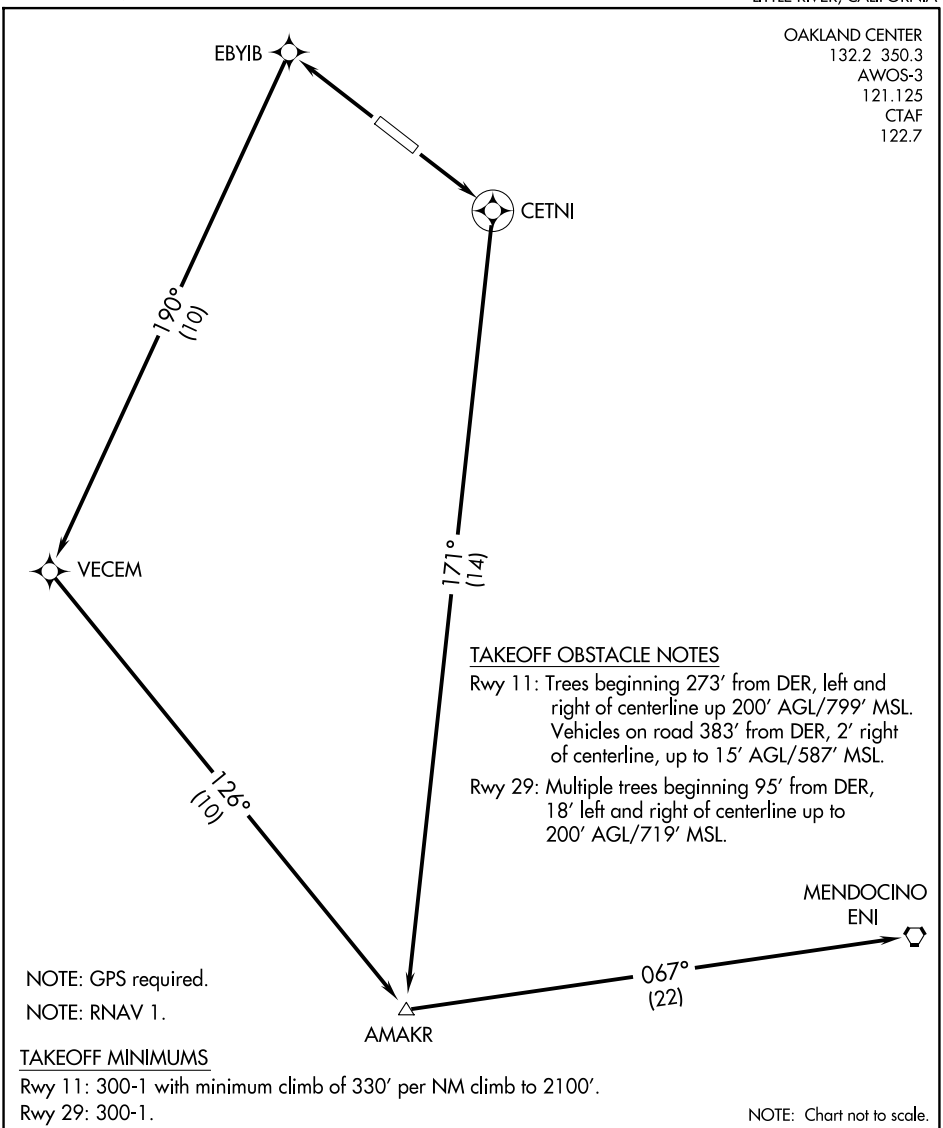
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(LTLRV1.LTLRV) 25163

AL-10390 (FAA)

LITTLE RIVER ONE DEPARTURE (OBSTACLE) (RNAV)

LITTLE RIVER (LLR)
LITTLE RIVER, CALIFORNIA



TAKEOFF OBSTACLE NOTES

Rwy 11: Trees beginning 273′ from DER, left and right of centerline up 200′ AGL/799′ MSL. Vehicles on road 383′ from DER, 2′ right of centerline, up to 15′ AGL/587′ MSL.

Rwy 29: Multiple trees beginning 95′ from DER, 18′ left and right of centerline up to 200′ AGL/719′ MSL.

TAKEOFF MINIMUMS

Rwy 11: 300-1 with minimum climb of 330′ per NM climb to 2100′.
Rwy 29: 300-1.

NOTE: Chart not to scale.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb to 6000 direct CETNI and via track 171° to AMAKR and left turn via track 067° to ENI VORTAC, thence . . . .

TAKEOFF RUNWAY 29: Climb to 6000 direct EBYIB and left turn via track 190° to VECEM and via track 126° to AMAKR and via track 067° to ENI VORTAC, thence . . . .

. . . . via assigned route.

LOC/DME I-LVK	APP CRS	Rwy Ldg	5253
110.5	255°	TDZE	400
Chan 42		Apt Elev	400

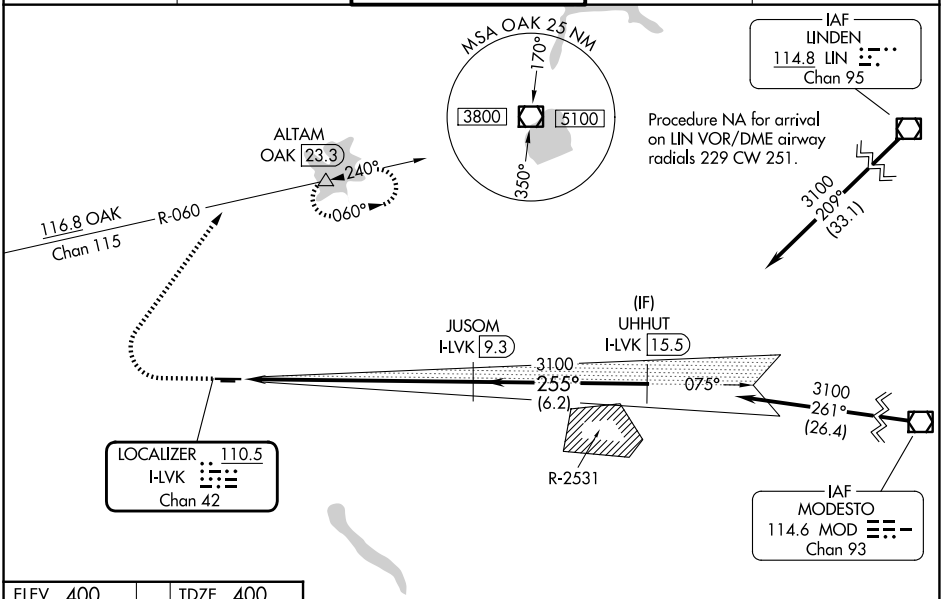
ILS RWY 25R
LIVERMORE MUNI (LVK)

DME required.

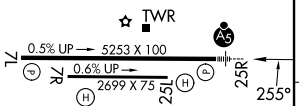
MALSR

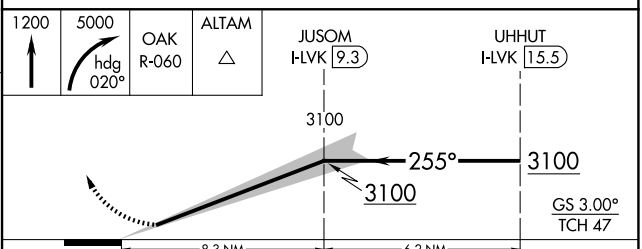
MISSED APPROACH: Climb to 1200 then climbing right turn to 5000 on heading 020° and OAK VOR/DME R-060 to ALTAM/OAK VOR/DME 23.3 DME and hold, continue climb-in-hold to 5000.
*Missed approach requires a minimum climb of 358 feet per NM to 3600, if unable to meet climb gradient, see LOC RWY 25R.

ATIS	NORCAL APP CON	LIVERMORE TOWER *	GND CON	UNICOM
119.65	123.85 278.3	118.1 (CTAF) L 239.25	121.6	122.95



ELEV 400	TDZE 400





CATEGORY	A	B	C	D
S-ILS 25R	600-½ 200 (200-½)			

HIRL Rwy 7L-25R L
MIRL Rwy 7R-25L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 25R

LIVERMORE MUNI (LVK)

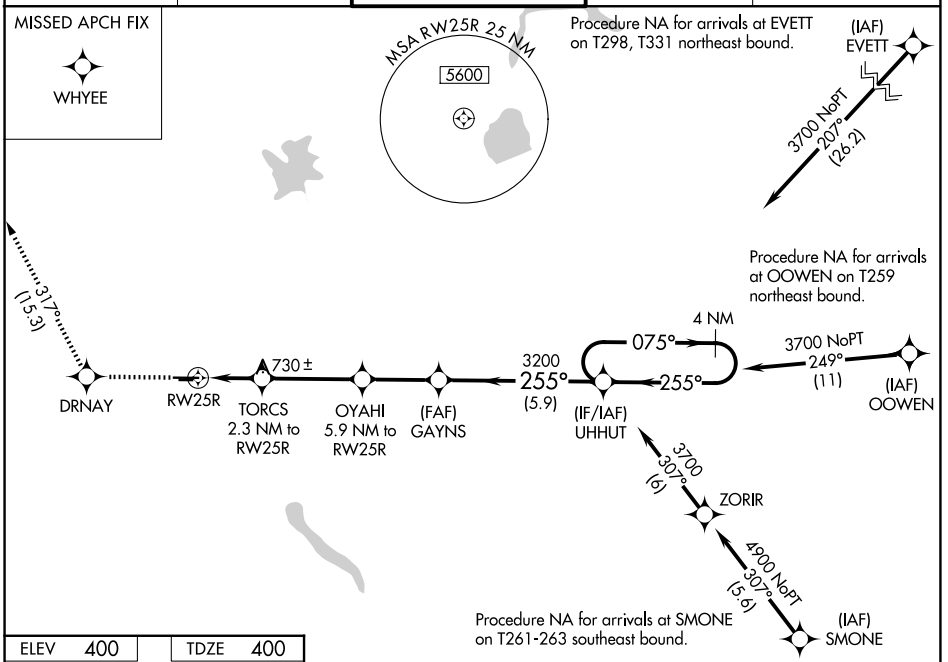
WAAS	APP CRS	Rwy Ldg	5253
CH 50214	255°	TDZE	400
W25A		Apt Elev	400

Circling to Rwy 25L NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -5°C (23°F) or above 54°C (130°F). Circling NA north of Rwy 7L-25R. RADAR Required. DME/DME RNP-0.3 NA. For inop ALS, increase LNAV Cat C/D to 1⅝ SM.

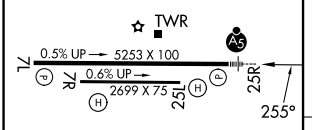
MALSR

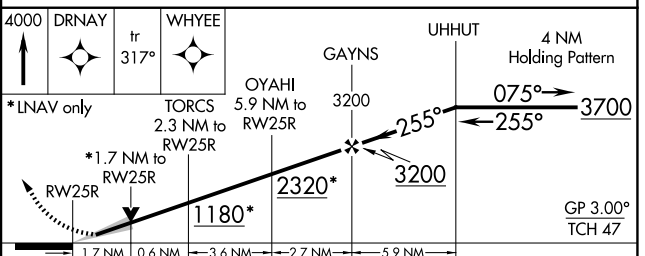
MISSED APPROACH: Climb to 4000 direct DRNAY and on track 317° to WHYEE.

ATIS	NORCAL APP CON	LIVERMORE TOWER ★	GND CON	UNICOM
119.65	123.85 278.3	118.1 (CTAF) L 239.25	121.6	122.95



ELEV	400	TDZE	400





CATEGORY	A	B	C	D
LPV DA	600-½ 200 (200-½)			
LNAV/VNAV DA	843-⅞ 443 (500-⅞)			
LNAV MDA	980-½ 580 (600-½)		980-1¼ 580 (600-1¼)	
CIRCLING	980-1 580 (600-1)		1140-2 740 (800-2)	1780-3 1380 (1400-3)

MIRL Rwy 7R-25L
HIRL Rwy 7L-25R L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-LVK	APP CRS	Rwy Ldg	5253
110.5	255°	TDZE	400
Chan 42		Apt Elev	400

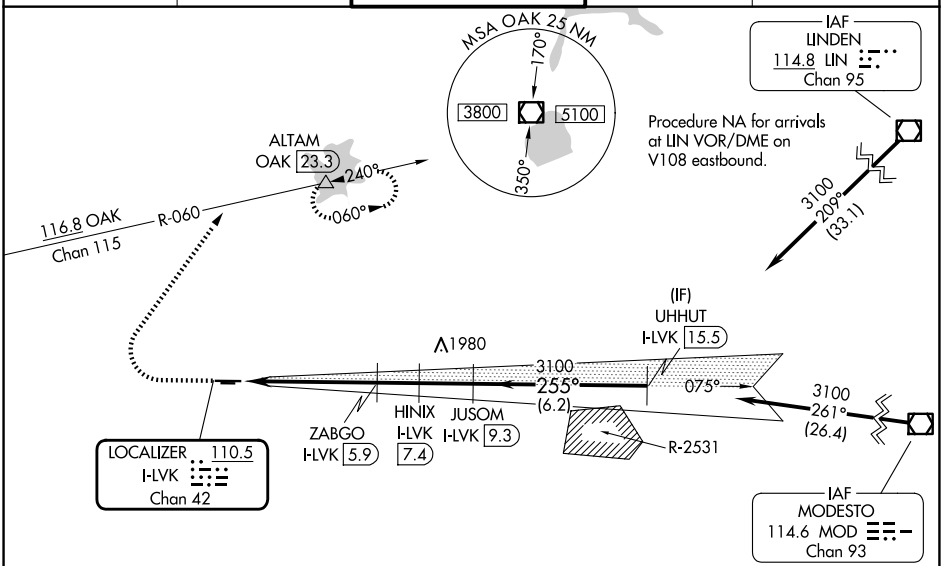
LOC RWY 25R
LIVERMORE MUNI (LVK)

Circling to Rwy 25L NA at night.
Inop table does not apply to S-25R Cats C/D.
Circling NA north of Rwy 7L-25R.
DME required.

MALSR

MISSED APPROACH: Climb to 2000 then climbing right turn to 5000 on heading 020° and OAK VOR/DME R-060 to ALTAM/OAK VOR/DME 23.3 DME and hold, continue climb-in-hold to 5000.
*Missed approach requires minimum climb of 235 feet per NM to 3600.

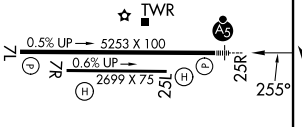
ATIS	NORCAL APP CON	LIVERMORE TOWER *	GND CON	UNICOM
119.65	123.85 278.3	118.1 (CTAF) L 239.25	121.6	122.95

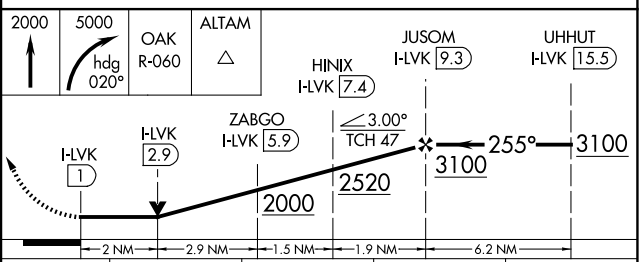


SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ELEV 400 | TDZE 400





CATEGORY	A	B	C	D
S-LOC 25R*	1080-½ 680 (700-½)		1080-1½ 680 (700-1½)	
S-LOC 25R	2000-¾ 1600 (1600-¾)	2000-1 1600 (1600-1)	2000-3 1600 (1600-3)	
CIRCLING	2000-1¼ 1600 (1600-1¼)	2000-1½ 1600 (1600-1½)	2000-3 1600 (1600-3)	

HIRL Rwy 7L-25R L
MIRL Rwy 7R-25L

26134

AIRPORT DIAGRAM

AL-6075 (FAA)

LIVERMORE MUNI (LVK)
LIVERMORE, CALIFORNIA

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM

LIVERMORE, CALIFORNIA
LIVERMORE MUNI (LVK)

26134

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R: Climb heading 075° to 1000, then climbing left turn heading 340° and on SAC VORTAC R-177 to ALTAM, thence . . . . .

TAKEOFF RUNWAYS 25L/R: Climb heading 255° to 1200, then climbing right turn heading 020° and on OAK VOR/DME R-060 to ALTAM, thence . . . .

VCOA ALL RUNWAYS: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Livermore Airport at or above 3100, thence . . . .

. . . . continue climb on course to the MEA/MCA for route of flight.

TAKEOFF MINIMUMS

Rwys 7L/R: Standard with minimum climb of 375' per NM to 3500 or 2900-3 for VCOA.
Rwys 25L/R: Standard with minimum climb of 295' per NM to 3400 or 2900-3 for VCOA.

(LVK3.ALTAM) 17341

LIVERMORE THREE DEPARTURE (OBSTACLE)

AL-6075 (FAA)

LIVERMORE MUNI (LVK)
LIVERMORE, CALIFORNIA

SW-2, 09 JUL 2026 to 03 SEP 2026

TAKEOFF OBSTACLE NOTES

Rwy 7L: Sign 20′ from DER, 475′ right of centerline, up to 3′ AGL/403′ MSL.
Bush 48′ from DER, 501′ left of centerline, 403′ MSL.
Poles, buildings, electrical system, antenna on building, tree, and tanks beginning 447′ from DER, 567′ right of centerline, up to 42′ AGL/445′ MSL.
Hangar and building beginning 459′ from DER, 558′ left of centerline, up to 414′ MSL.
Tree 708′ from DER, 603′ left of centerline, 421′ MSL.
Trees beginning 711′ from DER, 567′ left of centerline, up to 439′ MSL.
Trees beginning 1623′ from DER, 690′ left of centerline, up to 450′ MSL.
Tree 1626′ from DER, 796′ left of centerline, 455′ MSL.
Trees beginning 1732′ from DER, 528′ right of centerline, up to 461′ MSL.
Tree 1767′ from DER, 816′ left of centerline, 463′ MSL.
Tree 2217′ from DER, 1040′ right of centerline, 465′ MSL.
Tree 2368′ from DER, 1027′ right of centerline, 466′ MSL.
Tree 3922′ from DER, 1480′ left of centerline, 528′ MSL.

Rwy 7R: Building 3′ from DER, 287′ right of centerline, 411′ MSL.
Terrain 3′ from DER, 9′ left of centerline, 396′ MSL.
Buildings beginning 29′ from DER, 287′ right of centerline, up to 412′ MSL.
Buildings and hangar beginning 137′ from DER, 287′ right of centerline, up to 413′ MSL.
Tower and navaid beginning 308′ from DER, 249′ left of centerline, up to 39′ AGL/432′ MSL.
Building 435′ from DER, 287′ right of centerline, 414′ MSL.
Buildings beginning 463′ from DER, 287′ right of centerline, up to 416′ MSL.
Building 668′ from DER, 287′ right of centerline, 417′ MSL.
Building 701′ from DER, 403′ right of centerline, 418′ MSL.
Buildings beginning 799′ from DER, 287′ right of centerline, up to 436′ MSL.
Tree 1146′ from DER, 399′ right of centerline, 438′ MSL.
Buildings and trees beginning 1169′ from DER, 344′ right of centerline, up to 445′ MSL.
Hangar and pole beginning 1402′ from DER, 66′ right of centerline, up to 446′ MSL.
Trees beginning 2349′ from DER, 672′ right of centerline, up to 467′ MSL.
Tree 3980′ from DER, 1563′ right of centerline, 497′ MSL.

Rwy 25L: Tree 388′ from DER, 532′ left of centerline, 442 MSL.

Rwy 25R: Sign 34′ from DER, 203′ right of centerline, 5′ AGL/376′ MSL.
Terrain beginning 43′ from DER, 486′ right of centerline, up to 378′ MSL.
Fences beginning 169′ from DER, 413′ right of centerline, up to 379′ MSL.
Tree 305′ from DER, 298′ right of centerline, 385′ MSL.
Tree 349′ from DER, 580′ right of centerline, 411′ MSL.
Tree 464′ from DER, 509′ right of centerline, 417′ MSL.
Trees beginning 477′ from DER, 426′ right of centerline, up to 424′ MSL.
Pole 662′ from DER, 411′ left of centerline, 33′ AGL/400′ MSL.
Trees beginning 805′ from DER, 248′ right of centerline, up to 427′ MSL.
Trees beginning 1405′ from DER, 747′ right of centerline, up to 432′ MSL.
Tree 1426′ from DER, 186′ left of centerline, 411′ MSL.
Tree 1596′ from DER, 244′ left of centerline, 413′ MSL.
Tree 1719′ from DER, 127′ left of centerline, 421′ MSL.
Trees beginning 1946′ from DER, 50′ right of centerline, up to 436′ MSL.

APP CRS	Rwy Ldg	N/A
285°	TDZE	N/A
	Apt Elev	60

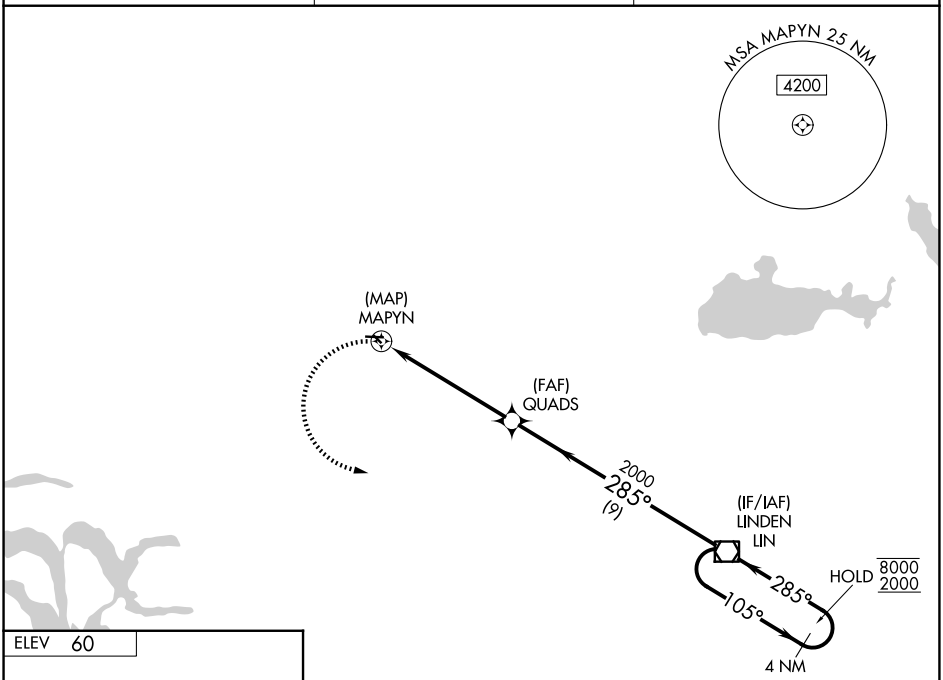
RNAV (GPS)-B
LODI (103)

RNP APCH.

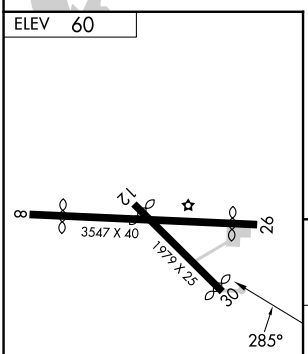
Procedure NA at night.
NA Use Stockton altimeter setting; when not received, use Sacramento Intl altimeter setting and increase all MDA 40 feet.

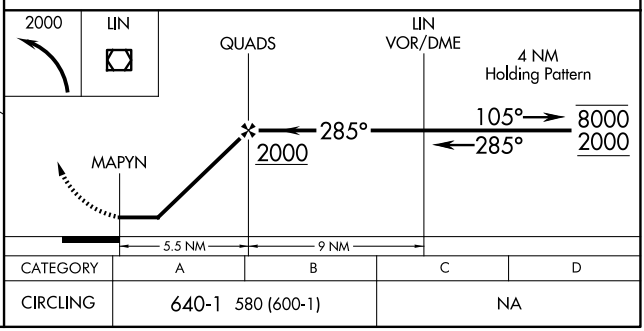
MISSED APPROACH: Climbing left turn to 2000 direct LIN VOR/DME and hold.

SCK ASOS	NORCAL APP CON	CTAF
118.25	125.1 363.2	122.9



NoPT for arrival on LIN VOR/DME airway radials 124 CW 158.





CATEGORY	A	B	C	D
CIRCLING	640-1	580 (600-1)	NA	

LIRL Rwy 8-26

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOS BANOS, CALIFORNIA AL-5819 (FAA) 22363

WAAS	APP CRS	Rwy Idg	3801
CH 53715	137°	TDZE	121
W14A		Apt Elev	121

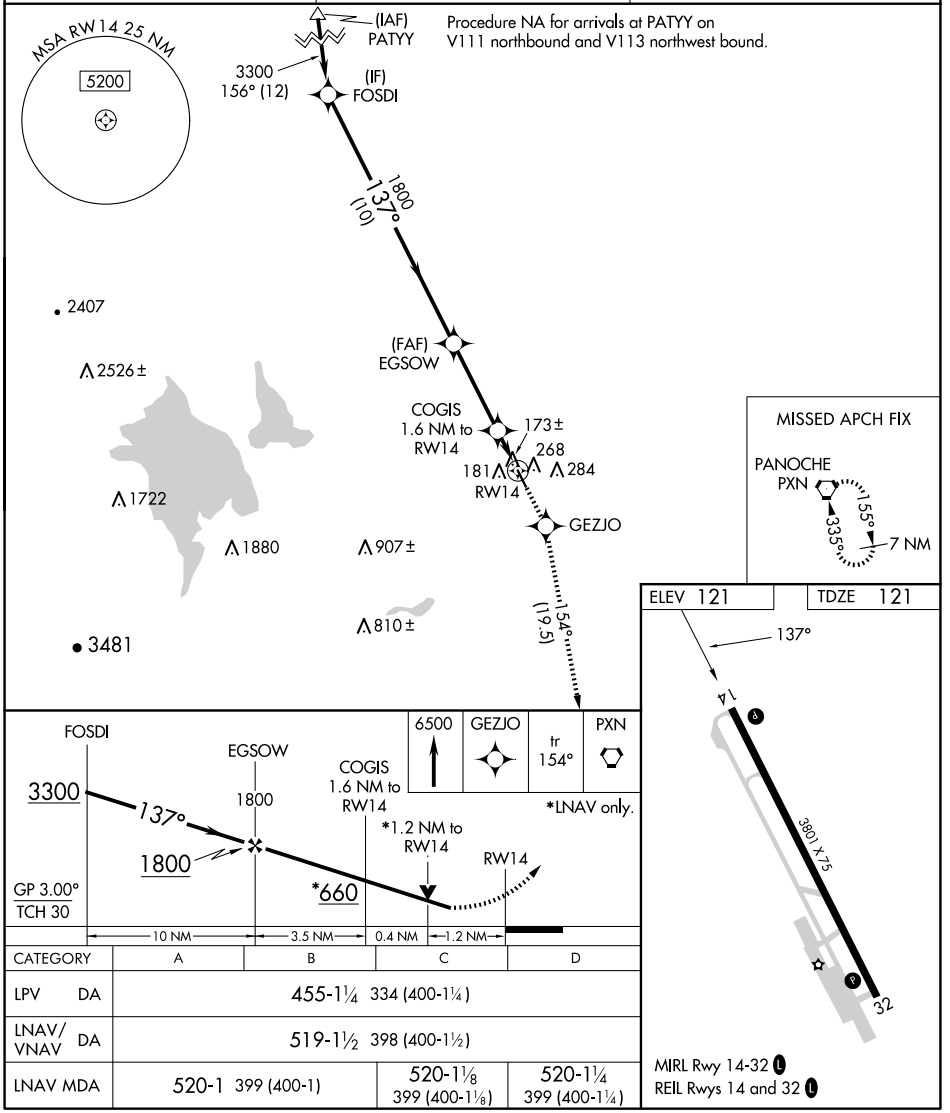
RNAV (GPS) RWY 14
LOS BANOS MUNI (LSN)

RNP APCH.

NA Rwy 14 helicopter visibility reduction below ¾ SM NA. Baro-VNAV and VDP NA when using Merced Yosemite Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. When local altimeter setting not received, use Merced Yosemite Rgnl altimeter setting and increase all DA/MDA 60 feet, and all visibility ¼ SM.

MISSED APPROACH: Climb to 6500 direct GEZJO and on track 154° to PXN VORTAC and hold, continue climb-in-hold to 6500.

AWOS-3	NORCAL APP CON	UNICOM
118.675	120.95 269.45	122.8 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	455-1¼ 334 (400-1¼)			
LNAV/VNAV DA	519-1½ 398 (400-1½)			
LNAV MDA	520-1 399 (400-1)		520-1⅛ 399 (400-1⅛)	520-1¼ 399 (400-1¼)

MIRL Rwy 14-32 L
REIL Rwys 14 and 32 L

LOS BANOS, CALIFORNIA
Orig-D 18JUL19

37°04'N-120°52'W

LOS BANOS MUNI (LSN)
RNAV (GPS) RWY 14

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Idg	3801
317°	TDZE	121
	Apt Elev	121

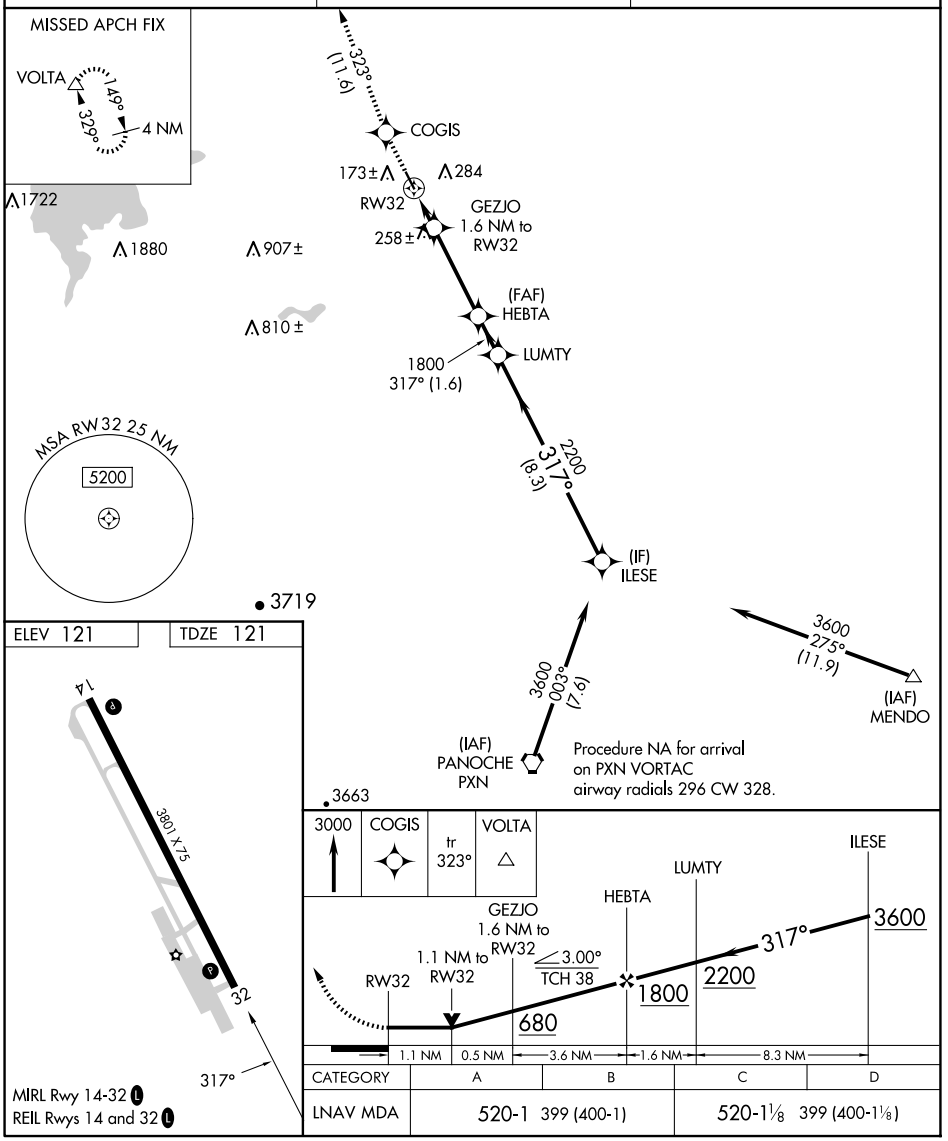
RNAV (GPS) RWY 32
LOS BANOS MUNI (LSN)

RNP APCH.

NA Rwy 32 helicopter visibility reduction below ¾ SM NA. VDP NA when using Merced Yosemite Rgnl altimeter setting. When local altimeter setting not received, use Merced Yosemite Rgnl altimeter setting and increase all MDA 60 feet, and all visibility ¼ SM.

MISSED APPROACH: Climb to 3000 direct COGIS and on track 323° to VOLTA and hold.

AWOS-3	NORCAL APP CON	UNICOM
118.675	120.95 269.45	122.8 (CTAF) L



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MADERA, CALIFORNIA AL-6399 (FAA) 26134

RNAV (GPS) RWY 12

MADERA MUNI (MAE)

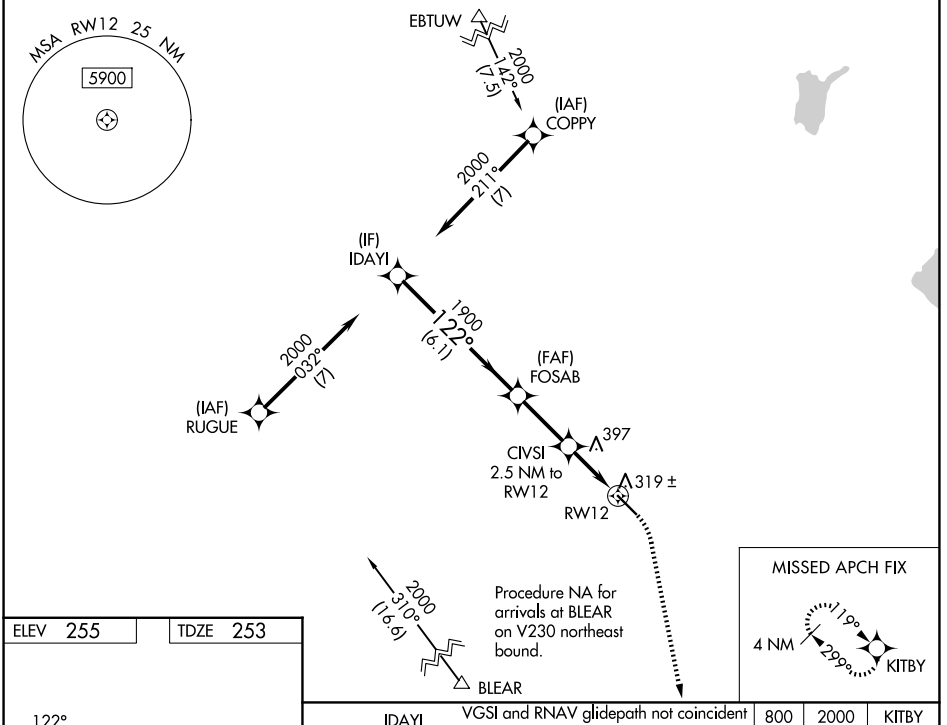
WAAS CH 62909 W12A	APP CRS 122°	Rwy Ldg 5545 / TDZE 253 / Apt Elev 255

RNP APCH - GPS.

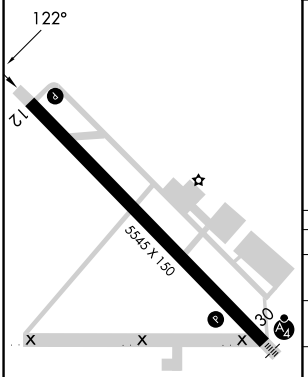
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C.

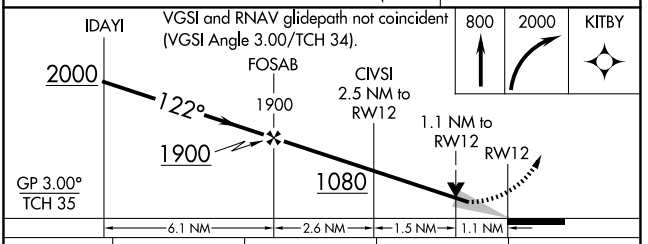
MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct KITBY and hold.

ASOS	FRESNO APP CON	CLNC DEL	UNICOM
134.725	119.45	119.45	122.8 (CTAF)



ELEV 255 TDZ 253





CATEGORY	A	B	C	D
LPV DA	503-¾ 250 (300-¾)			NA
LNAV/VNAV DA	503-¾ 250 (300-¾)			NA
LNAV MDA	620-1 367 (400-1)			NA
CIRCLING	680-1 425 (500-1)	720-1 465 (500-1)	760-1½ 505 (600-1½)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 30

MADERA MUNI (MAE)

WAAS CH 90209 W30A	APP CRS 302°	Rwy Ldg 5545 TDZE 255 Apt Elev 255

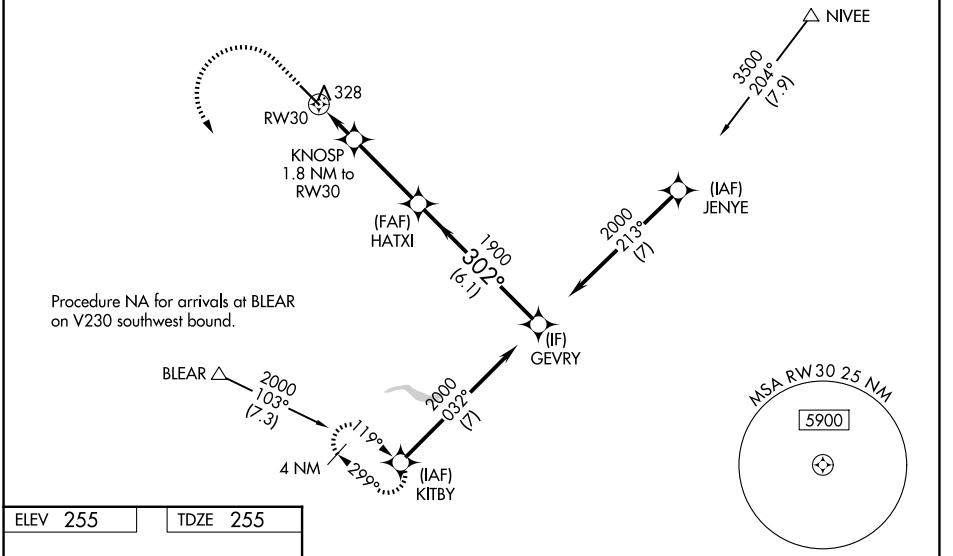
RNP APCH - GPS.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C. Inop table does not apply to LPV and LNAV/VNAV Cat A/B/C.

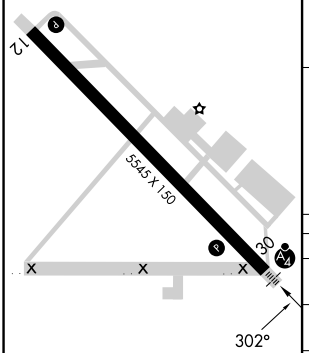
MALSF

MISSED APPROACH: Climb to 800 then climbing left turn to 2000 to KITBY and hold.

ASOS	FRESNO APP CON	CLNC DEL	UNICOM
134.725	119.45	119.45	122.8 (CTAF) L

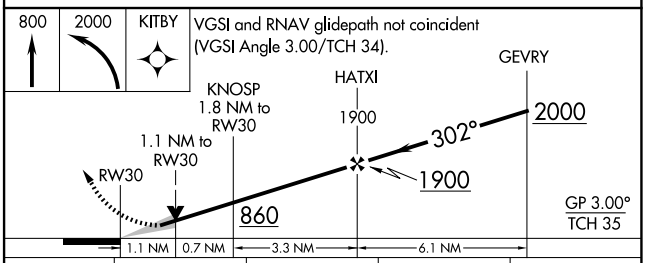


ELEV 255 TDZE 255



REIL Rwy 12 L

MIRL Rwy 12-30 L



CATEGORY	A	B	C	D
LPV DA	505-¾ 250 (300-¾)			NA
LNAV/VNAV DA	505-¾ 250 (300-¾)			NA
LNAV MDA	640-¾ 385 (400-¾)		640-⅞ 385 (400-⅞)	NA
CIRCLING	680-1 425 (500-1)	720-1 465 (500-1)	760-1½ 505 (600-1½)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MAMMOTH LAKES, CALIFORNIA | AL-6841 (FAA) | 26190

RNAV (GPS) RWY 27

MAMMOTH YOSEMITE (MMH)

WAAS	APP CRS	Rwy Ldg	7000
CH 69547	274°	TDZE	7097
W27A		Apt Elev	7135

RNP APCH - GPS.

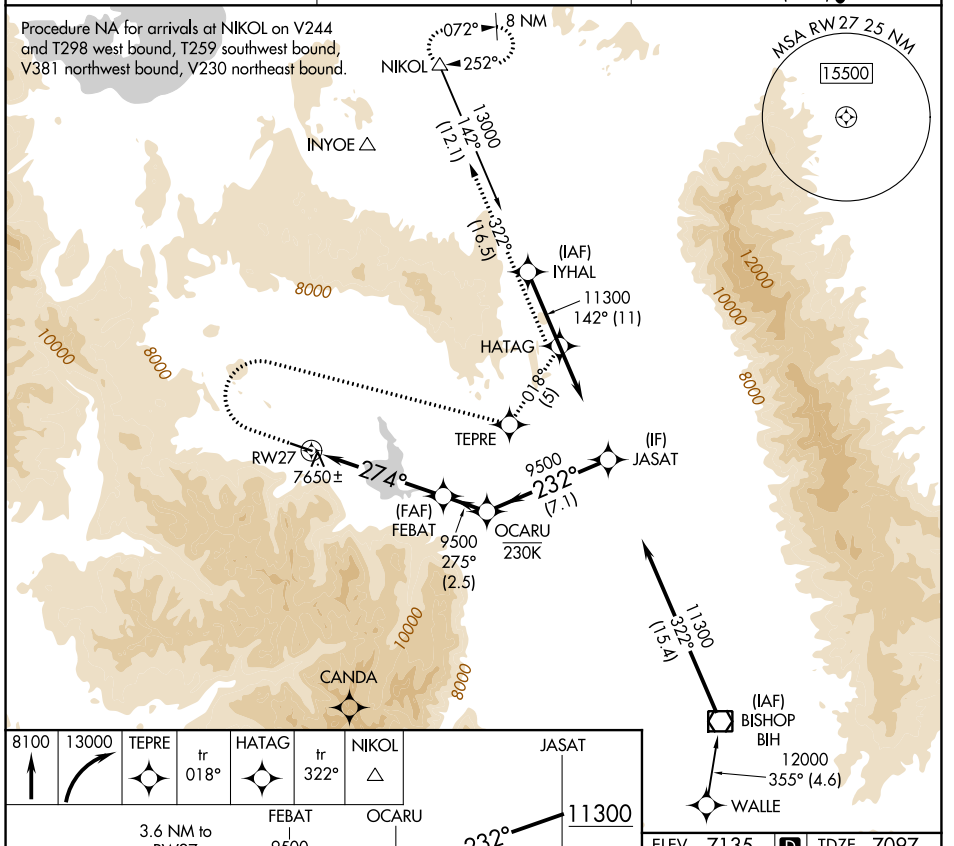
When local altimeter setting not received, procedure NA. Baro-VNAV NA. Circling NA south of Rwy 9-27.

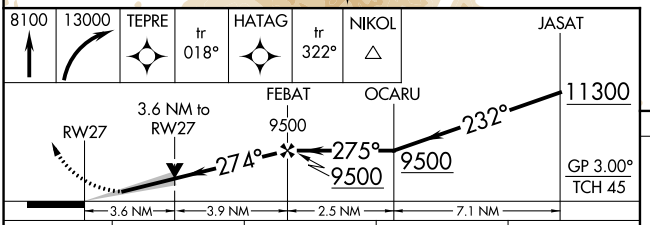
MISSED APPROACH: Climb to 8100 then climbing right turn to 13000 direct TEPRE and on track 018° to HATAG and on track 322° to NIKOL and hold.

*Missed approach requires minimum climb of 300 feet per NM to 8400.

AWOS-3PT	OAKLAND CENTER	UNICOM
118.05	125.75 284.65	122.8 (CTAF) L

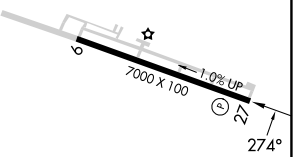
Procedure NA for arrivals at NIKOL on V244 and T298 west bound, T259 southwest bound, V381 northwest bound, V230 northeast bound.





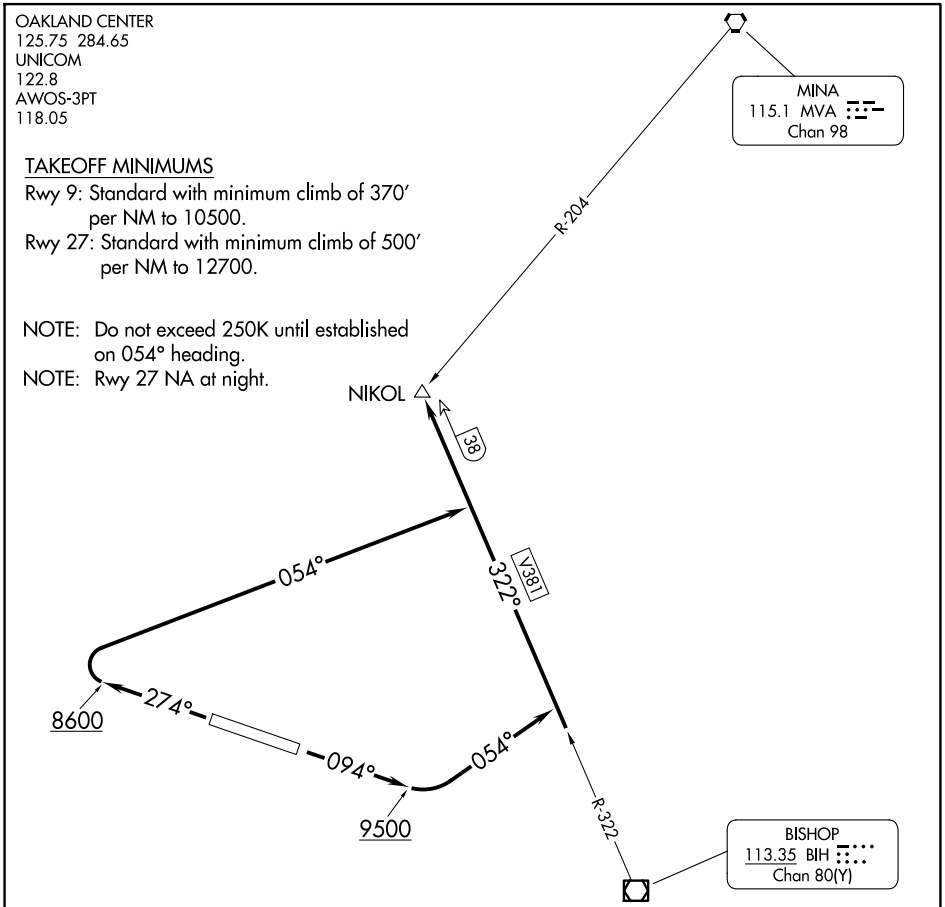
CATEGORY	A	B	C	D
LPV DA*	7606-1⅜ 509 (500-1⅜)			NA
LPV DA	7644-1⅝ 547 (600-1⅝)	7696-1¾ 599 (600-1¾)	7819-2 722 (700-2)	NA
LNAV/VNAV DA	8085-4 988 (1000-4)	8124-4 1027 (1000-4)	8247-5 1150 (1200-5)	NA
LNAV MDA	8260-1¼ 1163 (1200-1¼)	8260-1½ 1163 (1200-1½)	8320-3 1223 (1200-3)	NA
CIRCLING	8260-1¼ 1125 (1200-1¼)	8260-1½ 1125 (1200-1½)	8540-3 1405 (1500-3)	NA

ELEV 7135 D TDZE 7097



REIL Rwy 27 L
MIRL Rwy 9-27 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026



TAKEOFF MINIMUMS

Rwy 9: Standard with minimum climb of 370' per NM to 10500.

Rwy 27: Standard with minimum climb of 500' per NM to 12700.

NOTE: Do not exceed 250K until established on 054° heading.

NOTE: Rwy 27 NA at night.

TAKEOFF OBSTACLE NOTES

Rwy 9: Vehicles on roadway beginning 11' from DER, 460' right of centerline, up to 17' AGL/7078' MSL.
Trees beginning 1956' from DER, 554' left of centerline, up to 100' AGL/7186' MSL.
Trees beginning 3994' from DER, 963' right of centerline, up to 100' AGL/7252' MSL.

Rwy 27: Vehicles on roadway and bushes beginning 178' from DER, 269' left of centerline, up to 17' AGL/7160' MSL.
Building 386' from DER, 434' right of centerline, 21' AGL/7155' MSL.
Terrain and trees beginning 1.9 NM from DER, 334' right of centerline, up to 68' AGL/7970' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb on heading 094° to 9500, then climbing left turn heading 054° to intercept BIH R-322 to NIKOL INT. Maintain 13000.

TAKEOFF RUNWAY 27: Climb on heading 274° to 8600, then climbing right turn heading 054° to intercept BIH R-322 to NIKOL INT. Maintain 13000.

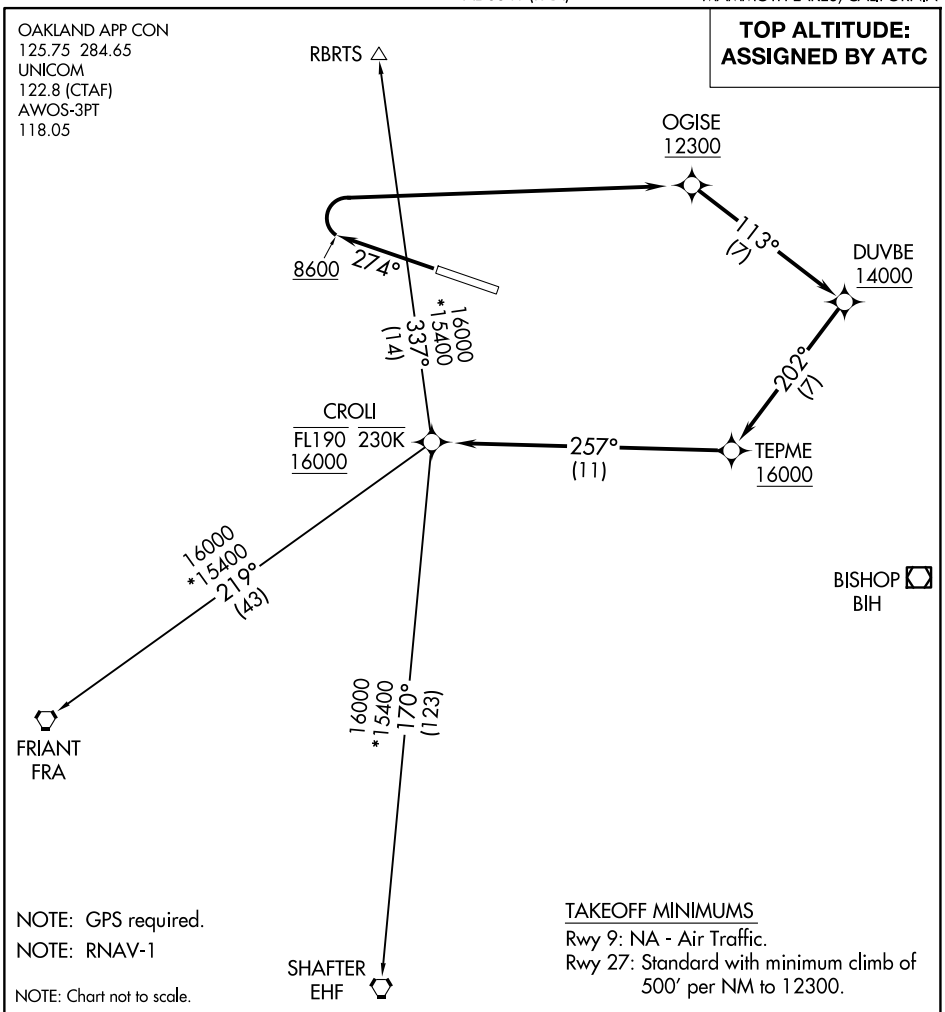
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(CROLI1.CROLI) 25275

CROLI ONE DEPARTURE (RNAV)

AL-6841 (FAA)

MAMMOTH YOSEMITE (MMH)
MAMMOTH LAKES, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 27: Climb heading 274° to 8600, then right turn direct to cross OGISE at or above 12300, then on track 113° to cross DUVBE at or above 14000, then on track 202° to cross TEPME at or above 16000, then on track 257° to cross CROLI at or above 16000 and at or below FL190, thence. . . .

. . . .on (transition) maintain 16000, expect filed altitude 10 minutes after departure.

SHAFTER TRANSITION (CROLI1.EHF)

FRIANT TRANSITION (CROLI1.FRA)

RBRTS TRANSITION (CROLI1.RBRTS)

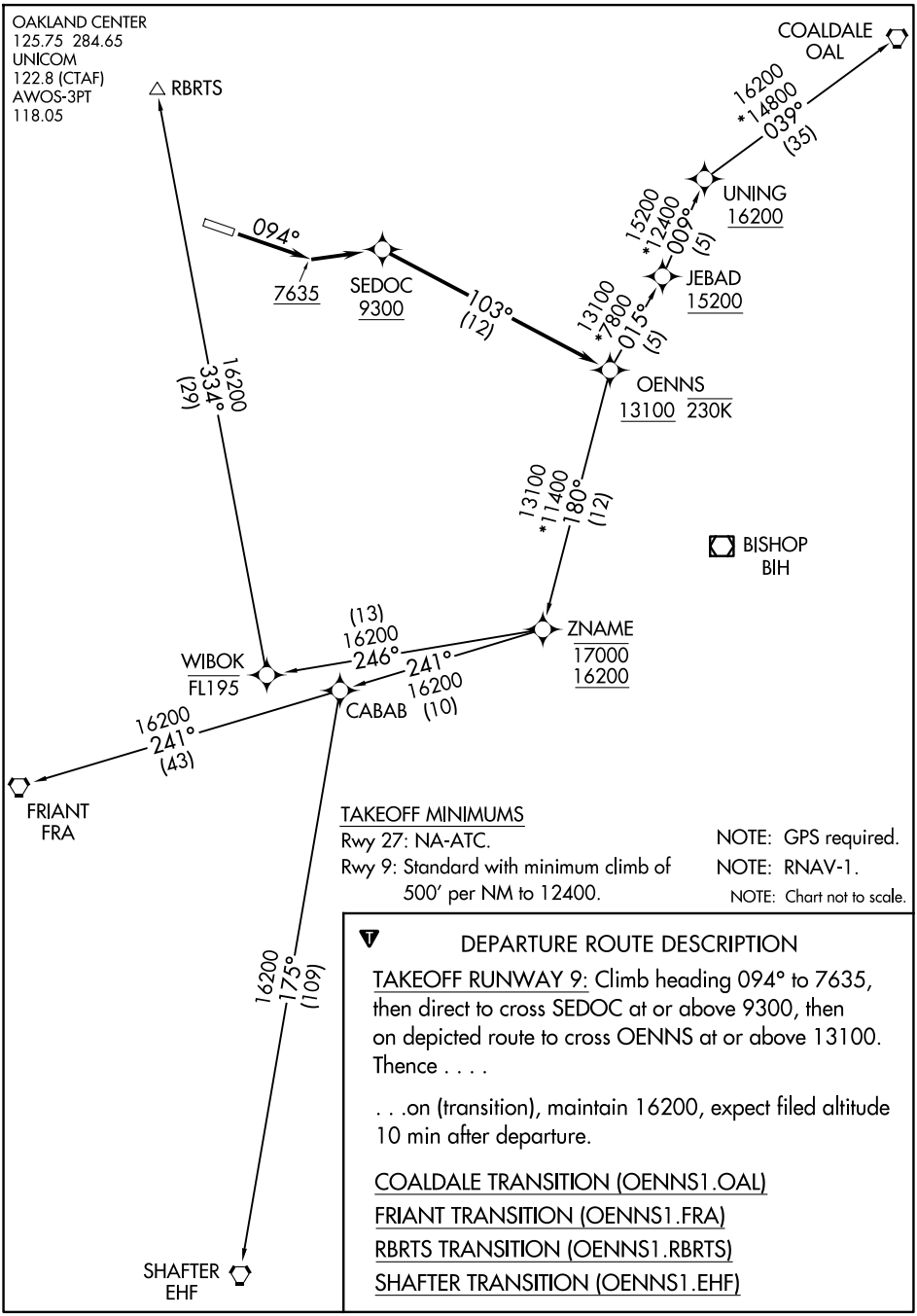
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

OENNS ONE DEPARTURE (RNAV)

AL-6841 (FAA)

MAMMOTH YOSEMITE (MMH)
MAMMOTH LAKES, CALIFORNIA



TAKEOFF MINIMUMS

Rwy 27: NA-ATC.

Rwy 9: Standard with minimum climb of 500′ per NM to 12400.

NOTE: GPS required.

NOTE: RNAV-1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb heading 094° to 7635, then direct to cross SEDOC at or above 9300, then on depicted route to cross OENNS at or above 13100. Thence . . . .

. . .on (transition), maintain 16200, expect filed altitude 10 min after departure.

COALDALE TRANSITION (OENNS1.OAL)

FRIANT TRANSITION (OENNS1.FRA)

RBRTS TRANSITION (OENNS1.RBRTS)

SHAFTER TRANSITION (OENNS1.EHF)

OENNS ONE DEPARTURE (RNAV)

MAMMOTH LAKES, CALIFORNIA
MAMMOTH YOSEMITE (MMH)

MARINA, CALIFORNIA AL-5271 (FAA) 25331

APP CRS	Rwy Ldg	3483
108°	TDZE	137
	Apt Elev	137

RNAV (GPS) RWY 11

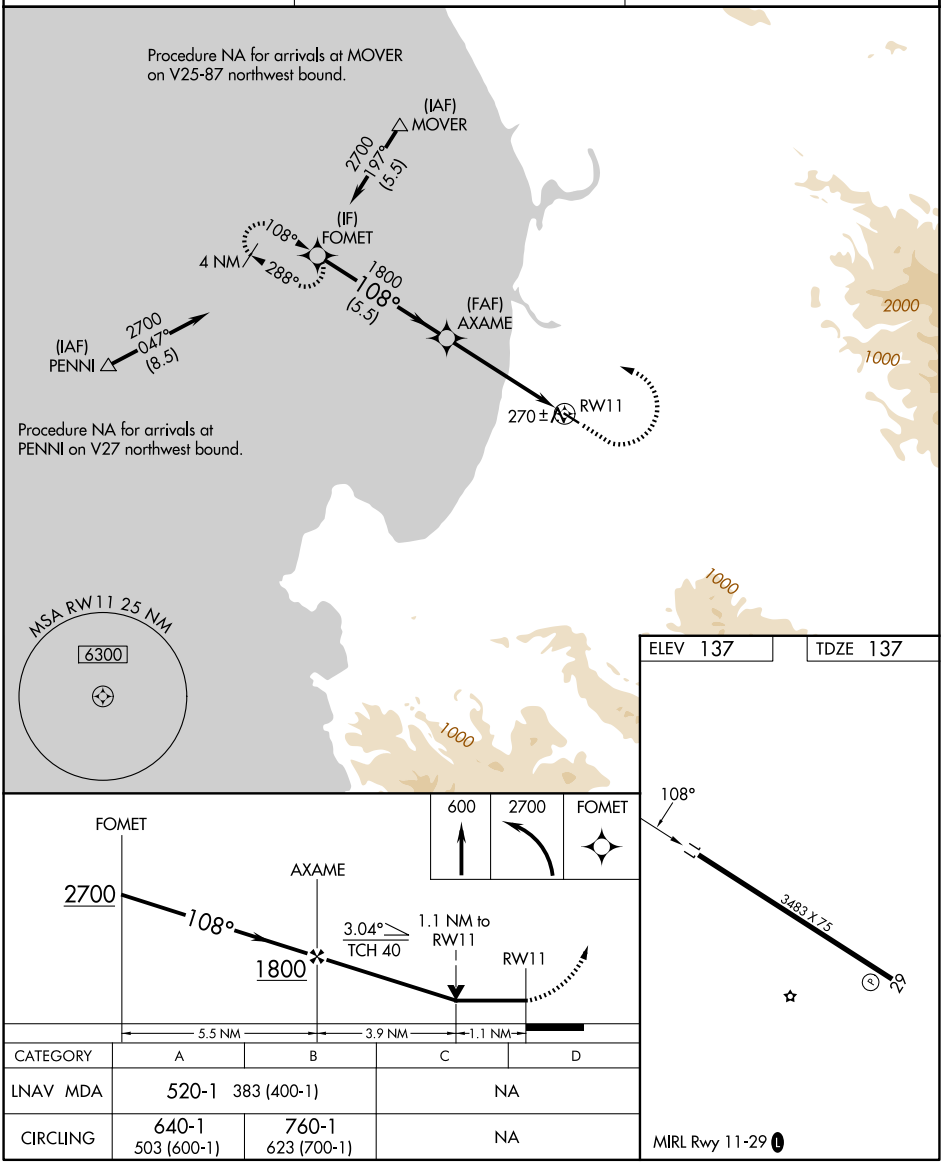
MARINA MUNI (OAR)

RNP APCH.

T A NA Rwy 11 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 600, then climbing left turn to 2700 direct FOMET and hold, continue climb-in-hold to 2700.

AWOS-3PT	NORCAL APP CON	UNICOM
134.025	133.0 251.15	122.7 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	520-1	383 (400-1)	NA	
CIRCLING	640-1 503 (600-1)	760-1 623 (700-1)	NA	

MIRL Rwy 11-29 L

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 29

MARINA MUNI (OAR)

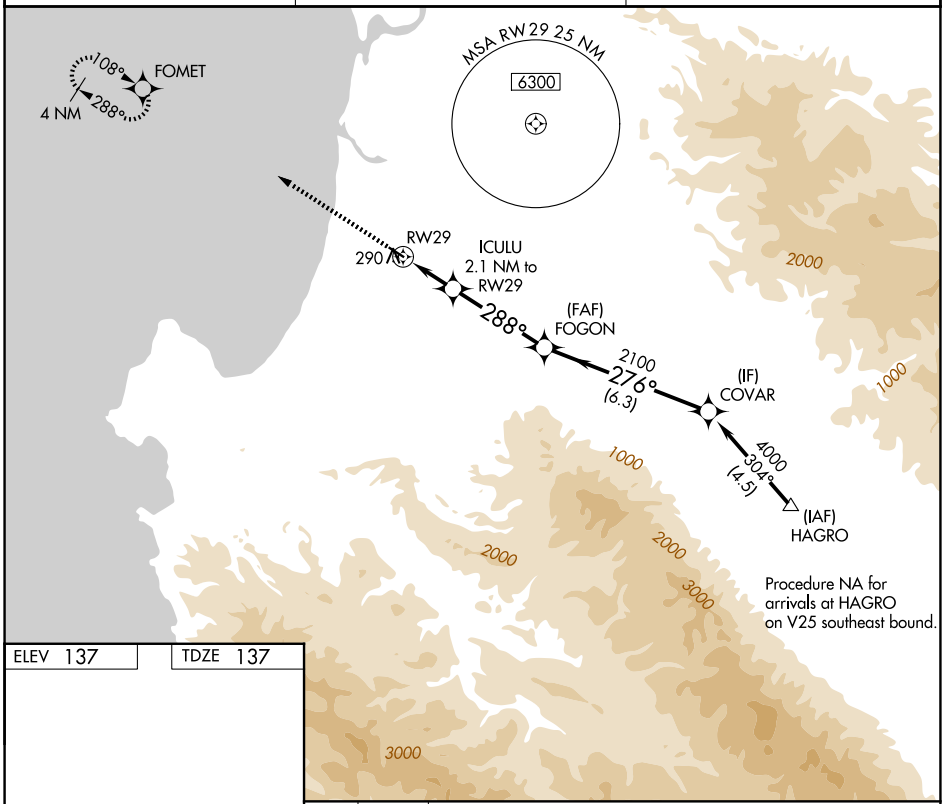
APP CRS	Rwy Ldg	3483
288°	TDZE	137
	Apt Elev	137

RNP APCH.

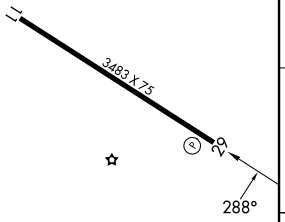
NA

MISSED APPROACH: Climb to 2700 direct FOMET and hold, continue climb-in-hold to 2700.

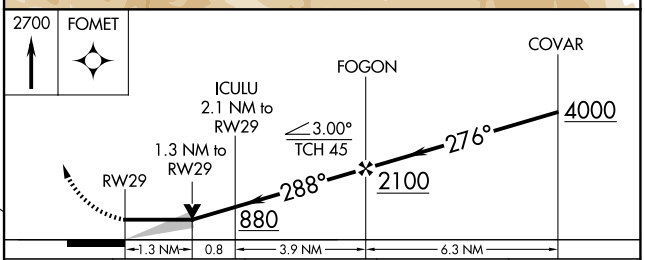
AWOS-3PT	NORCAL APP CON	UNICOM
134.025	133.0 251.15	122.7 (CTAF) L



ELEV 137 TDZE 137



MIRL Rwy 11-29 L



CATEGORY	A	B	C	D
LNAV MDA	600-1 463 (500-1)		NA	
CIRCLING	640-1 503 (600-1)	760-1 623 (700-1)	NA	

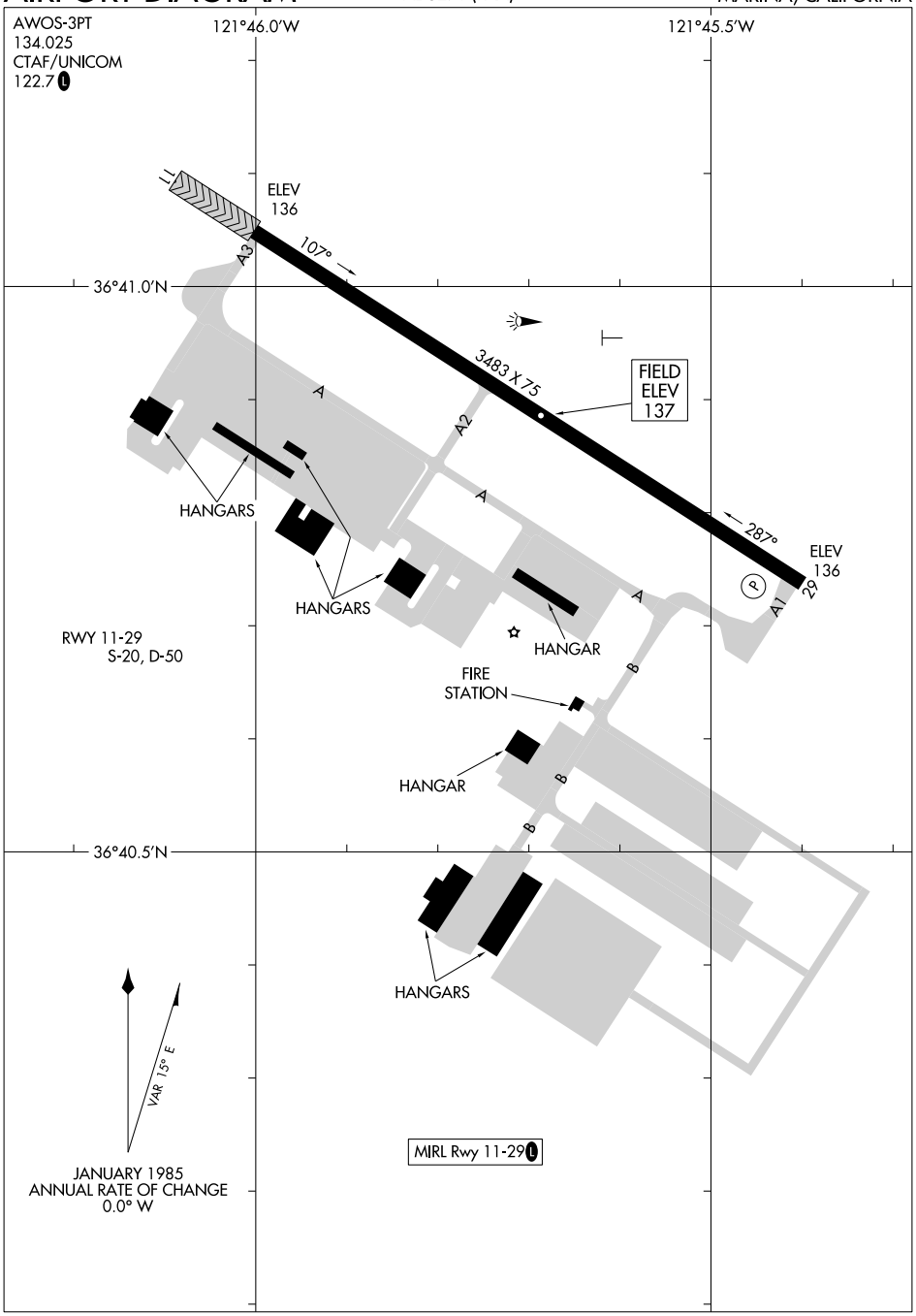
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26134

AIRPORT DIAGRAM

AL-5271 (FAA)

MARINA MUNI (OAR)
MARINA, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM
26134
MARINA, CALIFORNIA
MARINA MUNI (OAR)

APP CRS	Rwy Ldg	N/A
290°	TDZE	N/A
	Apt Elev	2254

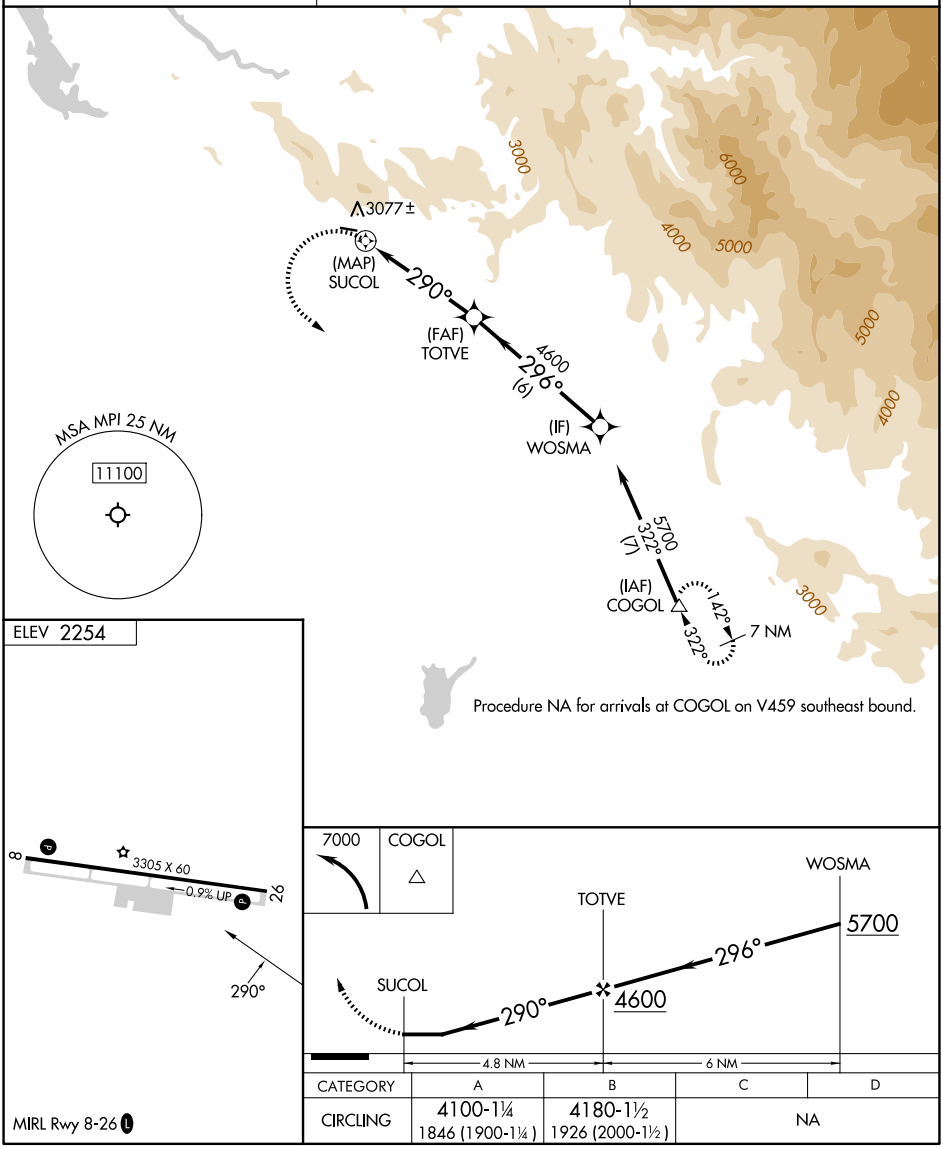
RNAV (GPS)-A
MARIPOSA-YOSEMITE (MPI)

RNP APCH - GPS.

Circling NA north of Rwy 8-26. When local altimeter setting not received, use MER altimeter setting and increase all MDAs 360 feet. Procedure NA at night.

MISSED APPROACH: Climbing left turn to 7000 direct COGOL and hold.

AWOS-3	OAKLAND CENTER	UNICOM
135.6	121.25 327.0	122.7 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	4100-1¼ 1846 (1900-1¼)	4180-1½ 1926 (2000-1½)	NA	

MIRL Rwy 8-26 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MARIPOSA, CALIFORNIA | AL-9969 (FAA) | 26022

APP CRS	Rwy Ldg	N/A
098°	TDZE	N/A
	Apt Elev	2254

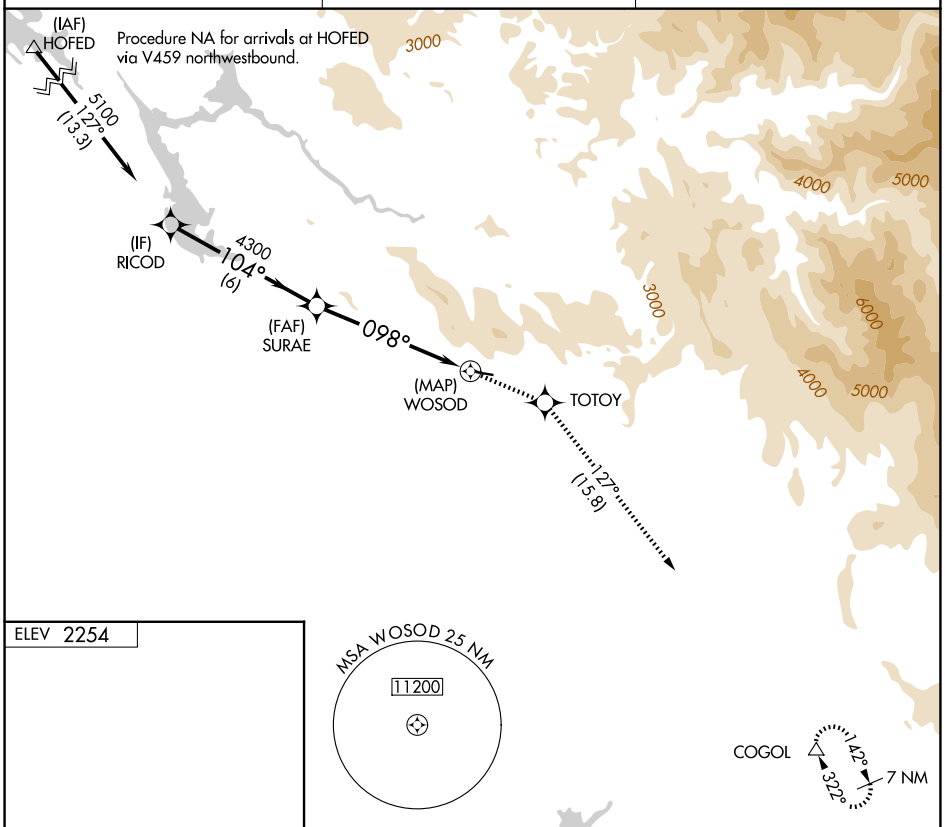
RNAV (GPS)-B
MARIPOSA-YOSEMITE (MPI)

NA

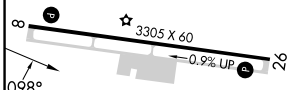
DME/DME RNP-0.3 NA.
Circling NA north of Rwy 8-26. Procedure NA at night.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 7000 direct TOTOY and via 127° track to COGOL and hold.

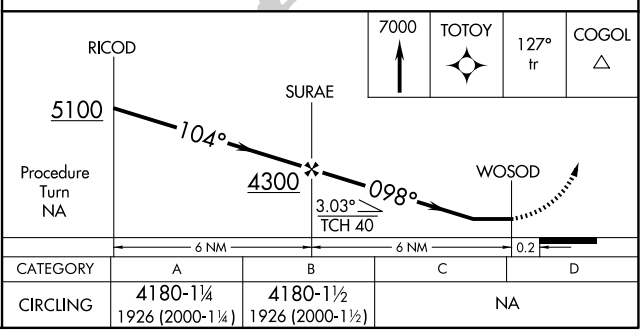
AWOS-3	OAKLAND CENTER	UNICOM
135.6	121.25 327.0	122.7 (CTAF) L



ELEV 2254



MIRL Rwy 8-26 L



CATEGORY	A	B	C	D
CIRCLING	4180-1¼ 1926 (2000-1¼)	4180-1½ 1926 (2000-1½)	NA	

MARIPOSA, CALIFORNIA
Orig-B 05NOV20

37°31′N-120°02′W

MARIPOSA-YOSEMITE (MPI)
RNAV (GPS)-B

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS or LOC RWY 14

YUBA COUNTY (MYV)

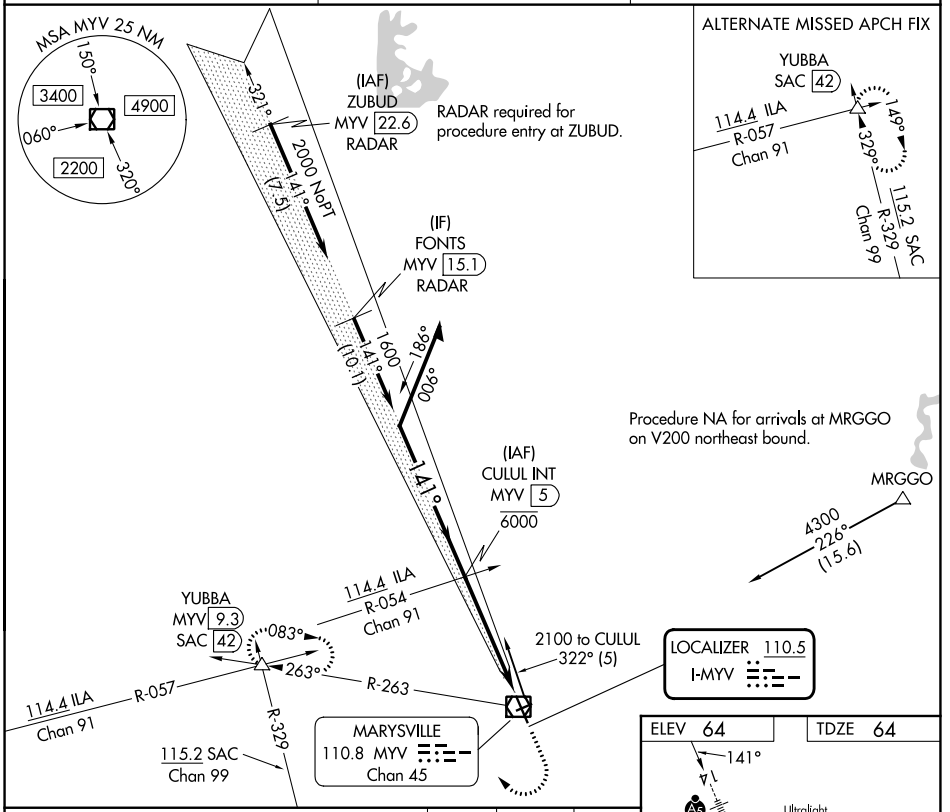
LOC I-MYV	APP CRS	Rwy Ldg 6007
110.5	141°	TDZE 64
		Apt Elev 64

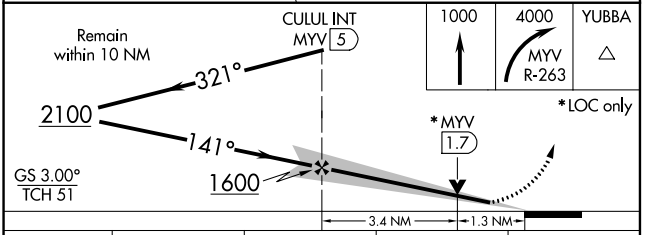
T
A NA — Circling Rwy 5, 23 NA at night.
Autopilot coupled approach NA below 695.

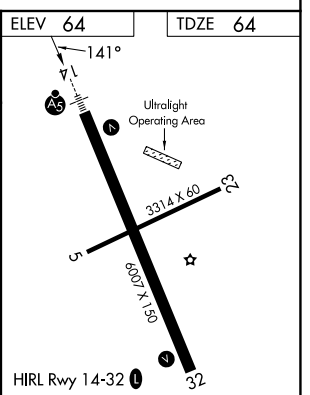
MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 4000 on MYV VOR/DME R-263 to YUBBA INT/ MYV 9.3 DME and hold, continue climb in hold to 4000.

ASOS	NORCAL APP CON	UNICOM
118.475	125.4 259.1	123.05 (CTAF) L







CATEGORY	A	B	C	D
S-ILS 14	264-½ 200 (200-½)			
S-LOC 14	520-½ 456 (500-½)		520-⅞ 456 (500-⅞)	
CIRCLING	540-1 476 (500-1)		560-1½ 496 (500-1½)	620-2 556 (600-2)

FAF to MAP 4.7 NM

Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MARYSVILLE, CALIFORNIA | AL-664 (FAA) | 26190

WAAS CH 42814 W14A	APP CRS 141°	Rwy Ldg 6007 TDZE 64 Apt Elev 64

RNAV (GPS) RWY 14

YUBA COUNTY (MYV)

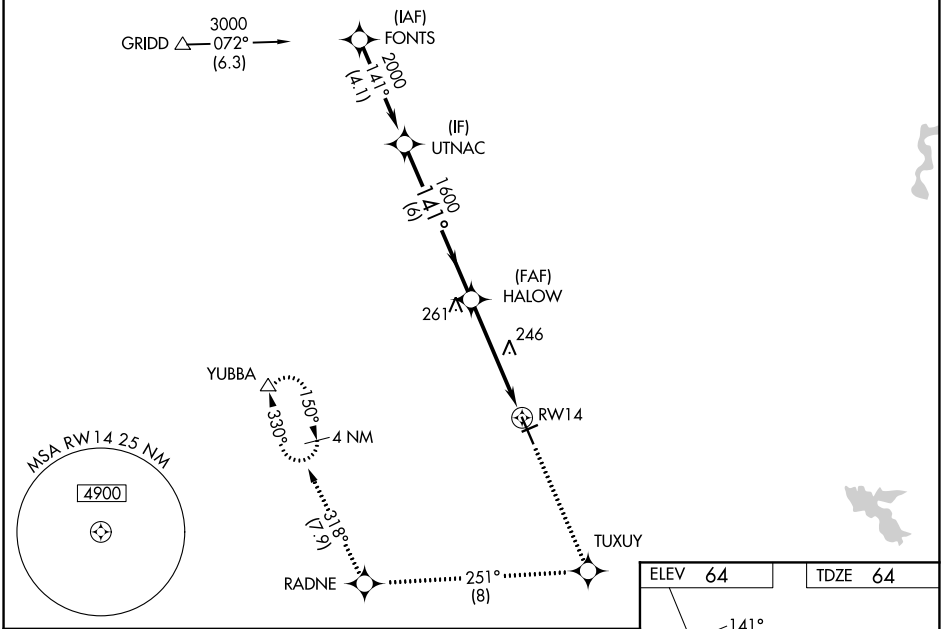
RNP APCH - GPS.

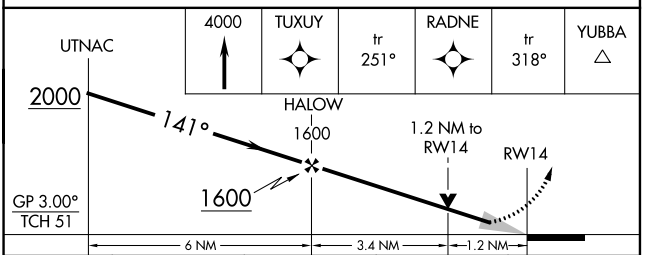
T Circling Rwy 5, 23 NA at night. Baro-VNAV and VDP NA when using LHM altimeter setting.
A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C. Inop table does not apply to LPV all Cats and LNAV Cats A/B. For inop ALS, increase LNAV/VNAV all Cats visibility to 1⅛ SM, increase LNAV Cat C/D visibility to 1¼ SM. When local altimeter setting not received, use LHM altimeter setting and increase LPV DA to 307 feet. Increase LNAV/VNAV DA to 513 feet. Increase all MDAs 60 feet.

MALSR

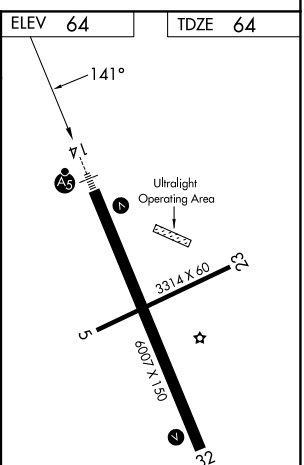
MISSED APPROACH: Climb to 4000 direct TUXUY and on track 251° to RADNE and on track 318° to YUBBA and hold, continue climb-in-hold to 4000.

ASOS	NORCAL APP CON	UNICOM
118.475	125.4 259.1	123.05 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	264-1 200 (200-1)			
LNAV/VNAV DA	470-1 406 (500-1)			
LNAV MDA	500-1 436 (500-1)			
CIRCLING	540-1 476 (500-1)		560-1½ 496 (500-1½)	640-2 576 (600-2)



MARYSVILLE, CALIFORNIA
Orig-E 11JUN26

39°06'N-121°34'W

YUBA COUNTY (MYV)

RNAV (GPS) RWY 14

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 32

YUBA COUNTY (MYV)

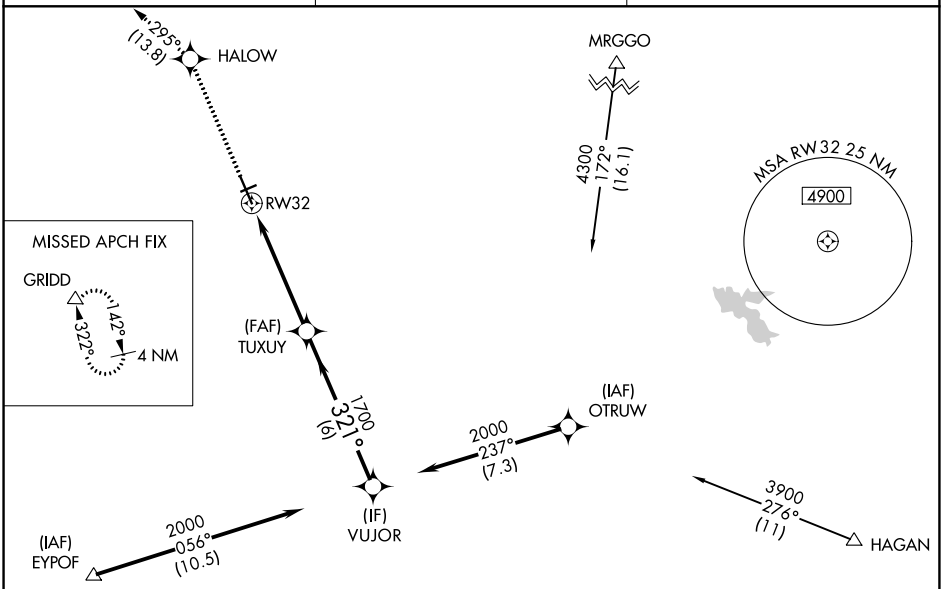
WAAS CH 87014 W32A	APP CRS 321°	Rwy Ldg 6007 TDZE 64 Apt Elev 64

RNP APCH - GPS.

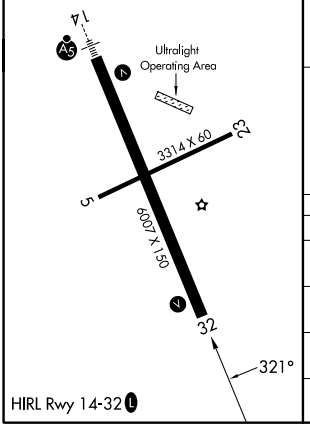
Circling to Rwy 5, 23 NA at night. Baro-VNAV NA when using LHM altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C. When local altimeter setting not received, use LHM altimeter setting and increase LPV DA to 357 feet; increase LNAV/VNAV DA to 418 feet; increase all MDAs 60 feet and LNAV visibility Cat C/D 1⅛ SM.

MISSED APPROACH: Climb to 4000 direct HALOW and on track 295° to GRIDD and hold.

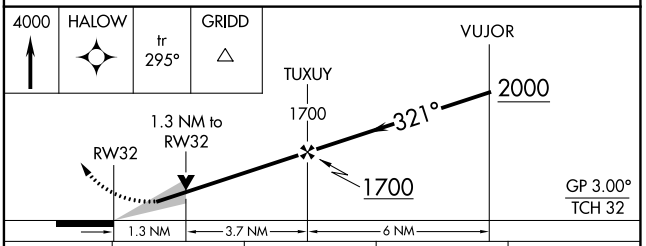
ASOS	NORCAL APP CON	UNICOM
118.475	125.4 259.1	123.05 (CTAF) L



ELEV 64	TDZE 64



HIRL Rwy 14-32 L



CATEGORY	A	B	C	D
LPV DA	314-1 250 (300-1)			
LNAV/VNAV DA	375-1⅛ 311 (400-1⅛)			
LNAV MDA	540-1 476 (500-1)		540-1¼ 476 (500-1¼)	
CIRCLING	540-1 476 (500-1)		560-1½ 496 (500-1½)	640-2 576 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

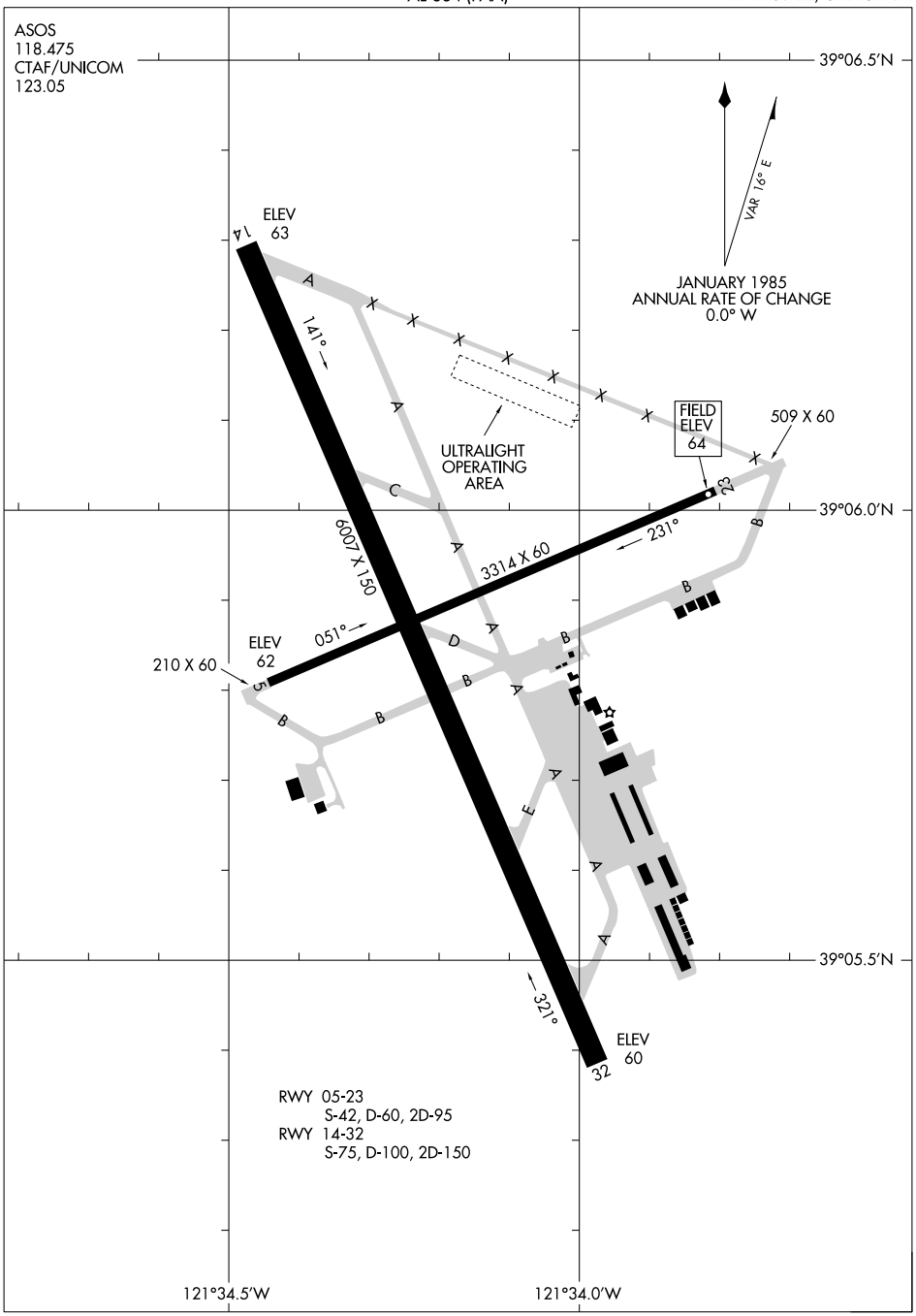
26190

AIRPORT DIAGRAM

YUBA COUNTY(MYV)

AL-664 (FAA)

MARYSVILLE, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM

26190

MARYSVILLE, CALIFORNIA

YUBA COUNTY(MYV)

LOC/DME I-MCE	APP CRS	Rwy Ldg	5914
109.3	304°	TDZE	155
Chan 30		Apt Elev	155

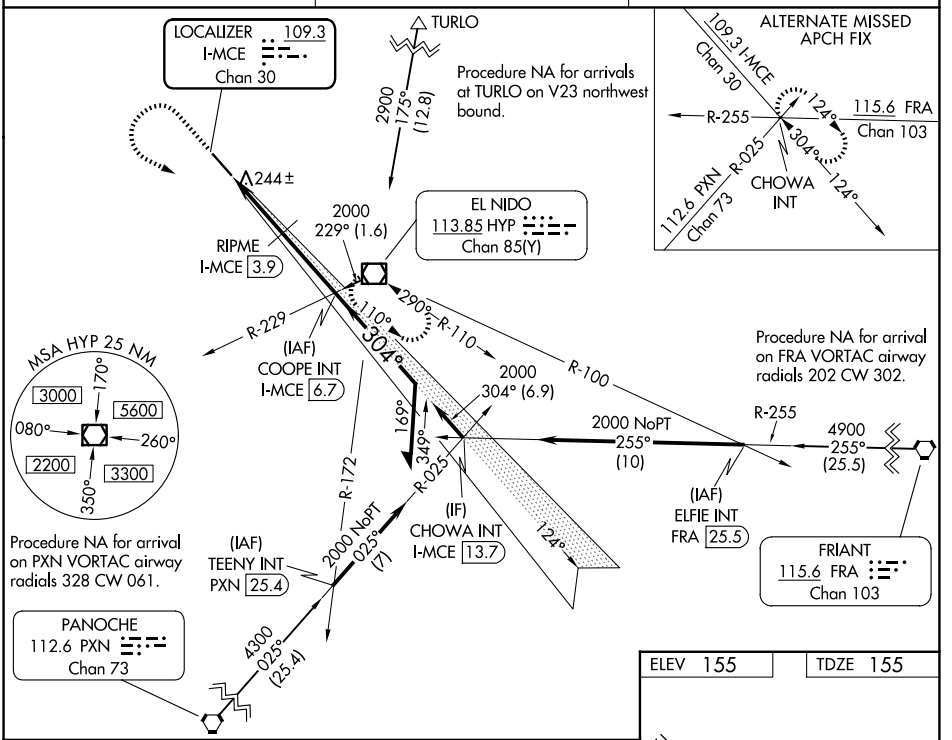
ILS or LOC RWY 30
MERCED YOSEMITE RGNL (MCE)

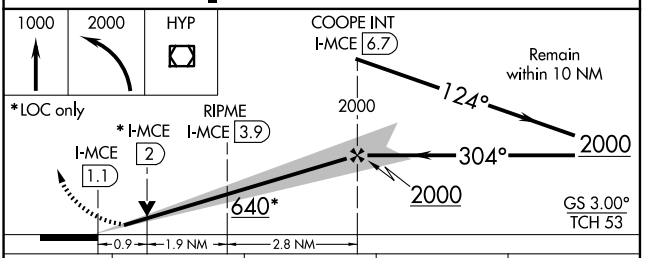
NA — For inop ALS, increase S-LOC visibility to 1 SM.

MALSR

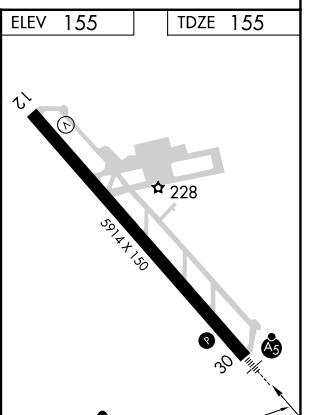
MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct HYP VOR/DME and hold.

ASOS	NORCAL APP CON	UNICOM
132.175	120.95 269.45	122.7 (CTAF) L





CATEGORY	A	B	C	D
S-ILS 30	355-½ 200 (200-½)			
S-LOC 30	640-¾ 485 (500-¾)		640-1 485 (500-1)	
RIPME FIX MINIMUMS				
S-LOC 30	500-¾ 345 (400-¾)			



FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 12

MERCED YOSEMITE RGNL (MCE)

WAAS	APP CRS	Rwy Ldg	5914
CH 93923	123°	TDZE	155
W12A		Apt Elev	155

RNP APCH.

Rwy 12 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C.

MISSED APPROACH: Climb to 3600 direct CHOWA and hold.

ASOS	NORCAL APP CON	UNICOM
132.175	120.95 269.45	122.7 (CTAF)

(IAF) MODESTO MOD

3000 116° (17.3)

(IAF) AWALI

3000 194° (13)

(IAF) PATYY

3000 085° (17.7)

(IF) WICKK

Procedure NA for arrivals at PATYY on V113 northwest bound.

2000 123° (6.2)

(FAF) JENED

JOOOO 2.8 NM to RW12

254±

RW12

MSA RW12 25 NM

5600

MISSED APCH FIX

CHOWA 124° 304° 4 NM

ELEV 155 TDZE 155

123°

13

228

5914 X 150

30

A5

WICKK 3000

123°

JENED 2000

JOOOO 2.8 NM to RW12

*1 NM to RW12

RW12

2000

*1100

GP 3.00°

TCH 53

6.2 NM 2.8 NM 1.8 NM 1 NM

3600 CHOWA

*LNAV only

CATEGORY	A	B	C	D
LPV DA	405-¾	250 (300-¾)		
LNAV/VNAV DA	434-⅞	279 (300-⅞)		
LNAV MDA	520-1	365 (400-1)		

REIL Rwy 12

HIRL Rwy 12-30

37°17′N-120°31′W

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	5914
CH 93709	304°	TDZE	155
W30A		Apt Elev	155

RNAV (GPS) RWY 30

MERCED YOSEMITE RGNL (MCE)

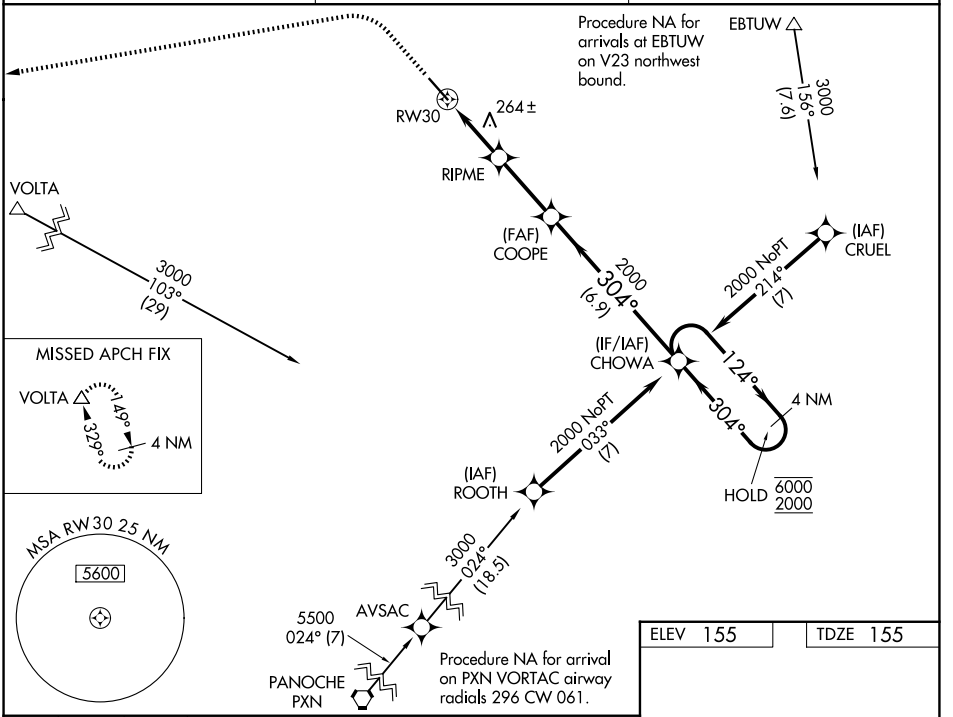
RNP APCH.

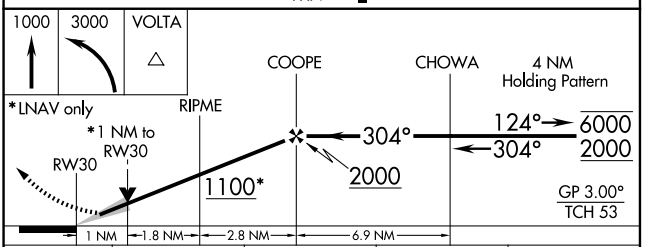
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C. For inoperative ALS, increase LNAV Cats C/D visibility to 1⅜ SM. Circling NA northeast of Rwy 12-30.

MALSR

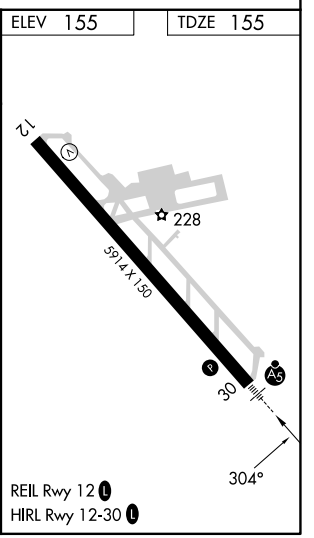
MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct VOLTA and hold.

ASOS	NORCAL APP CON	UNICOM
132.175	120.95 269.45	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	355-½ 200 (200-½)			
LNAV/VNAV DA	544-⅝ 389 (400-⅝)			
LNAV MDA	520-½ 365 (400-½)		520-⅝ 365 (400-⅝)	
CIRCLING	560-1 405 (500-1)	620-1 465 (500-1)	620-1½ 465 (500-1½)	720-2 565 (600-2)



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MERCED, CALIFORNIA AL-665 (FAA) 25219

LOC/DME I-MCE	APP CRS	Rwy Ldg	5914
109.3	123°	TDZE	155
Chan 30		Apt Elev	155

LOC BC RWY 12

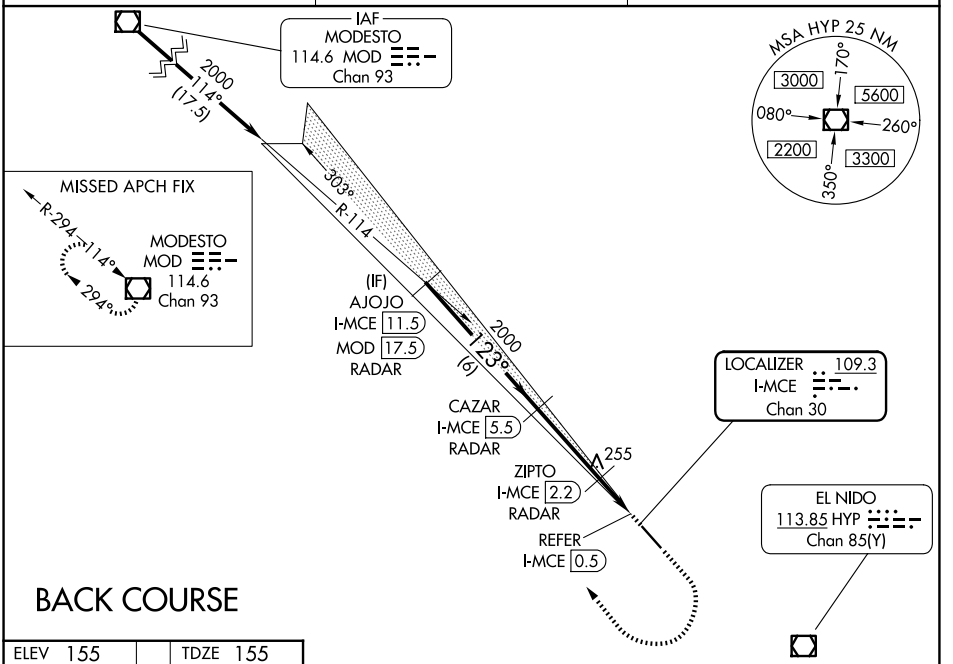
MERCED YOSEMITE RGNL (MCE)

DME or RADAR required.

T NA Rwy 12 helicopter visibility reduction below ¾ SM NA. Circling NA northeast of Rwy 12-30.

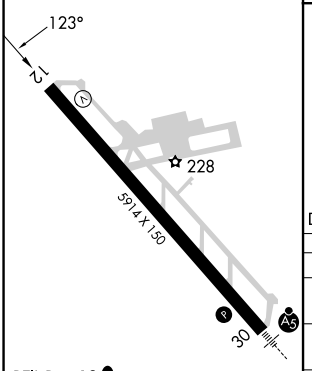
MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct MOD VOR/DME and hold.

ASOS	NORCAL APP CON	UNICOM
132.175	120.95 269.45	122.7 (CTAF) L



BACK COURSE

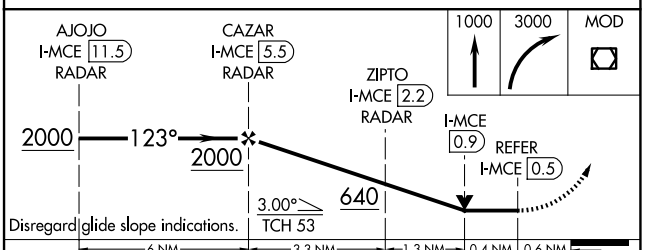
ELEV 155 TDZE 155



REIL Rwy 12 L
HIRL Rwy 12-30 L

FAF to MAP 5 NM

Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40



CATEGORY	A	B	C	D
S-12	640-1 485 (500-1)		640-1⅜ 485 (500-1⅜)	
CIRCLING	640-1 485 (500-1)		640-1½ 485 (500-1½)	720-2 565 (600-2)
ZIPTO FIX MINIMUMS				
S-12	520-1 365 (400-1)	NA		
CIRCLING	560-1 405 (500-1)	620-1 465 (500-1)	620-1½ 465 (500-1½)	720-2 565 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS or LOC RWY 28R

MODESTO CITY-COUNTY-HARRY SHAM FLD (MOD)

LOC I-MOD	APP CRS	Rwy Ldg	5904
111.9	288°	TDZE	91
		Apt Elev	99

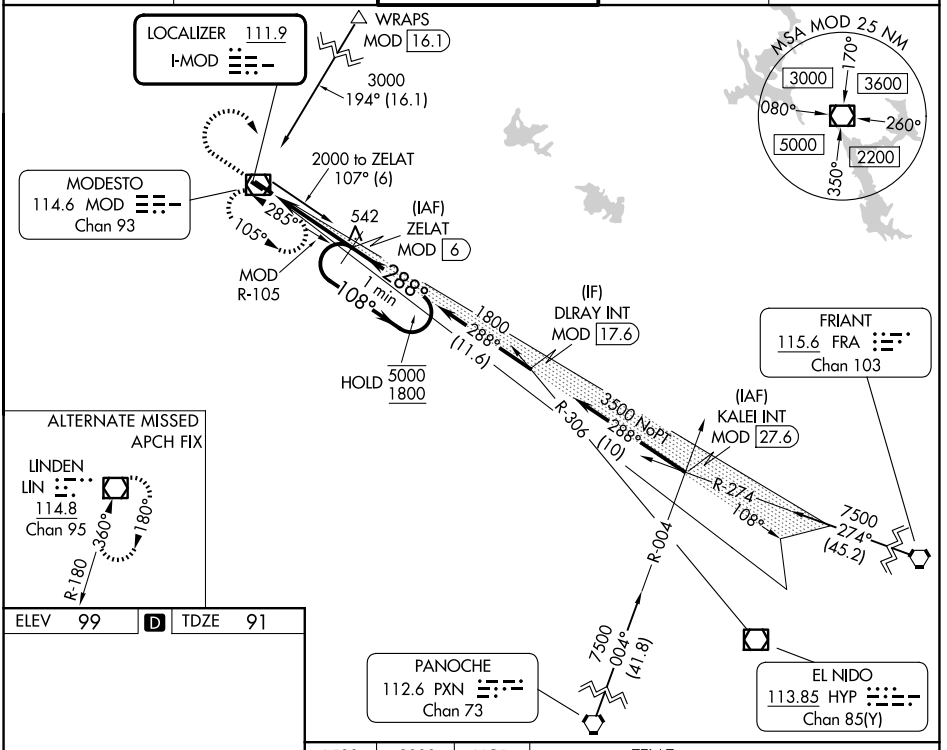
DME required for LOC only.

Autopilot coupled approach NA below 1080. Circling Rwy 10R, 28L NA at night. DME from MOD VOR/DME. DME use requires simultaneous reception of I-MOD and MOD DME. For inop ALS, increase S-LOC 28R Cats C and D visibility to 1⅜ SM.

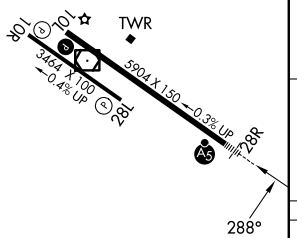
MALSR

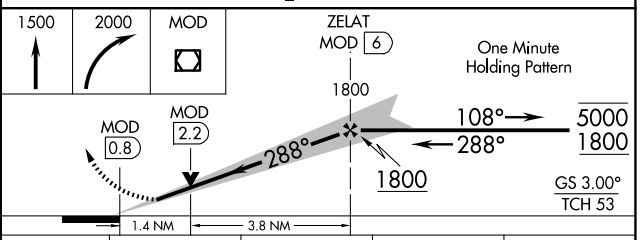
MISSED APPROACH: Climb to 1500 then climbing right turn to 2000 direct MOD VOR/DME and hold, continue climb-in-hold to 2000.

ATIS	NORCAL APP CON	MODESTO TOWER★	GND CON	UNICOM
127.7	120.95 269.45	125.3 (CTAF) L 257.8	121.7	122.95



ELEV 99 D TDZE 91





CATEGORY	A	B	C	D
S-ILS 28R	341-½ 250 (300-½)			
S-LOC 28R	580-½ 489 (500-½)		580-1 489 (500-1)	
CIRCLING	580-1 481 (500-1)	600-1 501 (600-1)	640-1½ 541 (600-1½)	820-2¼ 721 (800-2¼)

REIL Rwy 10L L
MIRL Rwy 10R-28L
HIRL Rwy 10L-28R L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MODESTO, CALIFORNIA AL-643 (FAA) 26078

RNAV (GPS) RWY 28R

MODESTO CITY-COUNTY-HARRY SHAM FLD (MOD)

WAAS	APP CRS	Rwy Ldg	5904
CH 70609	288°	TDZE	91
W28A		Apt Elev	99

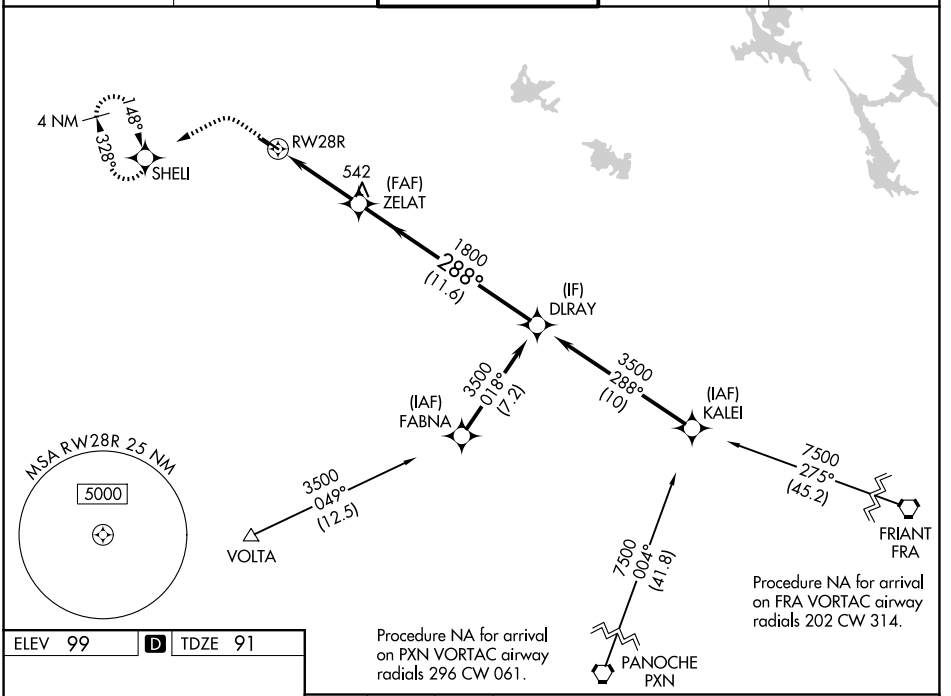
RNP APCH - GPS.

Circling Rwy 10R, 28L NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C or above 54°C.

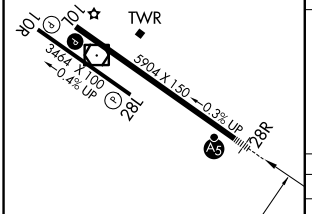
MALSR

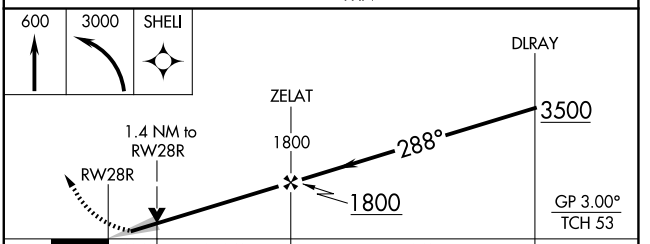
MISSED APPROACH: Climb to 600 then climbing left turn to 3000 direct SHELI and hold, continue climb-in-hold to 3000.

ATIS	NORCAL APP CON	MODESTO TOWER ★	GND CON	UNICOM
127.7	120.95 269.45	125.3 (CTAF) L 257.8	121.7	122.95



ELEV 99 D TDZE 91





CATEGORY	A	B	C	D
LPV DA	341-½ 250 (300-½)			
LNAV/VNAV DA	526-¾ 435 (500-¾)			
LNAV MDA	580-½ 489 (500-½)		580-1 489 (500-1)	
CIRCLING	580-1 481 (500-1)	600-1 501 (600-1)	640-1¾ 541 (600-1¾)	820-2½ 721 (800-2½)

REIL Rwy 10L L
MIRL Rwy 10R-28L
HIRL Rwy 10L-28R L

MODESTO, CALIFORNIA
Amdt 2 19MAR26

MODESTO CITY-COUNTY-HARRY SHAM FLD (MOD)

37°38′N-120°57′W

RNAV (GPS) RWY 28R

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM

MODESTO CITY-COUNTY-HARRY SHAM FLD (MOD)

AL-643 (FAA)

MODESTO, CALIFORNIA

AIRPORT DIAGRAM
26134
MODESTO, CALIFORNIA
MODESTO CITY-COUNTY-HARRY SHAM FLD (MOD)

MONTAGUE, CALIFORNIA | AL-882 (FAA) | 25107

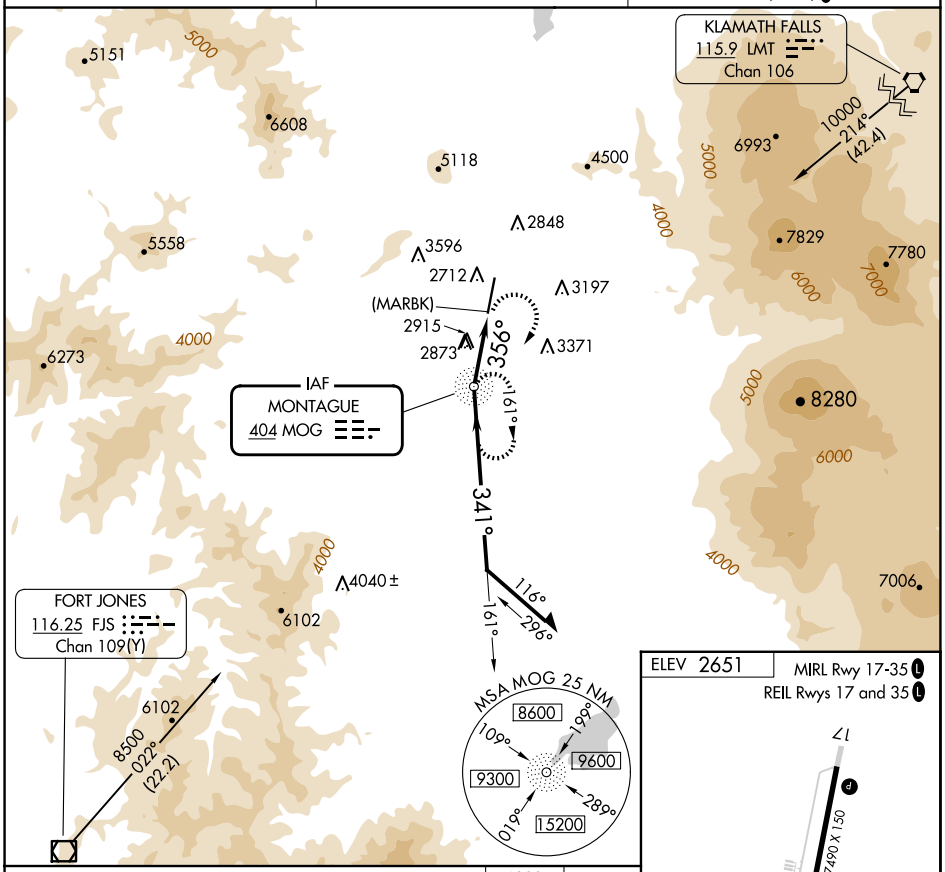
NDB MOG	APP CRS	Rwy Idg	N/A
404	356°	TDZE	N/A
		Apt Elev	2651

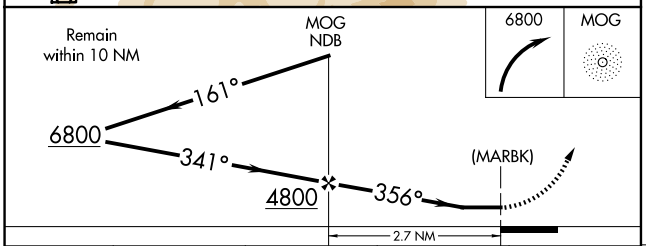
NDB or GPS-A
SISKIYOU COUNTY (SIY)

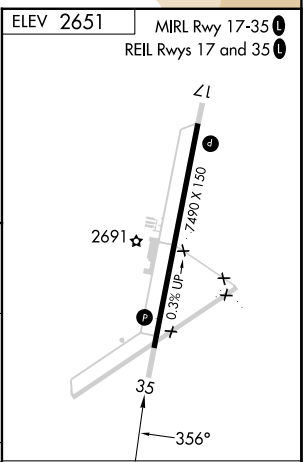
Use Siskiyou County altimeter setting; when not available, use Montague-Yreka Rohrer Fld altimeter setting; when neither received, procedure not authorized. Circling NA for Cats C and D west of Rwy 17-35.

MISSED APPROACH: Climbing right turn to 6800 direct MOG NDB and hold.

ASOS	SEATTLE CENTER	UNICOM
121.125	124.85 306.3	123.0 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	3760-1¼ 1109 (1200-1¼)	3760-1½ 1109 (1200-1½)	3980-3 1329 (1400-3)	4220-3 1569 (1600-3)

FAF to MAP 2.7 NM

Knots	60	90	120	150	180
Min:Sec	2:42	1:48	1:21	1:05	0:54

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS or LOC RWY 10R

MONTEREY RGNL (MRY)

LOC/DME I-MRY	APP CRS	Rwy Ldg	7000
110.7	098°	TDZE	198
Chan 44		Apt Elev	257

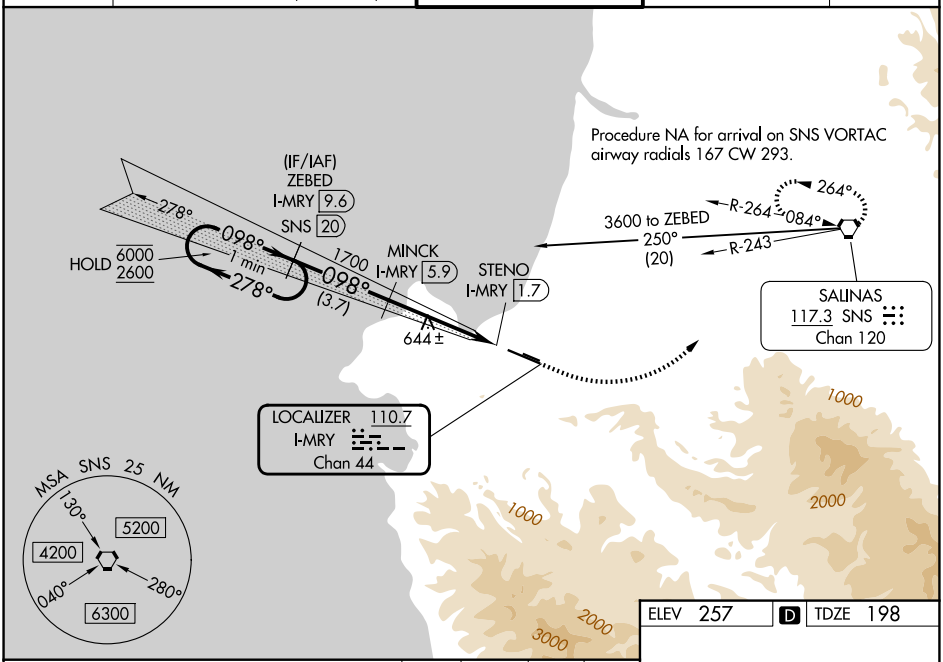
DME required.

Circling NA south of Rwy 10R-28L.
For inop ALS, increase S-ILS 10R all Cats visibility to RVR 6000, and increase S-LOC 10R Cat C and D visibility to 2 SM.

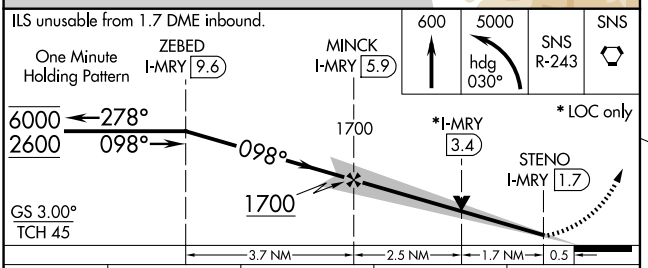
MALSR

MISSED APPROACH: Climb to 600 then climbing left turn to 5000 on heading 030° and on SNS VORTAC R-243 to SNS VORTAC and hold, continue climb-in-hold to 5000.
Missed approach requires minimum climb of 265 feet per NM to 1360.

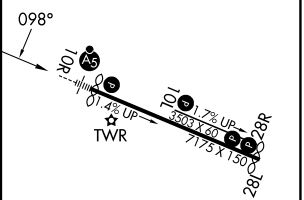
ATIS	NORCAL APP CON	MONTEREY TOWER ★	GND CON	UNICOM
119.25	133.0 251.15 (001°-135°) 127.15 307.125 (136°-360°)	118.4 (CTAF) L 257.8	120.875 348.6	122.95



ILS unusable from 1.7 DME inbound.



ELEV 257 D TDZE 198



CATEGORY	A	B	C	D
S-ILS 10R#	398/24 200 (200-½)			
S-ILS 10R	583/35 385 (400-⅝)			
S-LOC 10R	920/24 722 (700-½)		920-1⅝ 722 (700-1⅝)	
CIRCLING	920-1 663 (700-1)		1280-3 1023 (1100-3)	NA

MIRL Rwy 10L-28R
HIRL Rwy 10R-28L L
REIL Rwy 28L L
REIL Rwys 10L and 28R

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 10R

MONTEREY RGNL (MRY)

WAAS CH 69602 W10A	APP CRS 098°	Rwy Ldg 7000 TDZE 198 Apt Elev 257

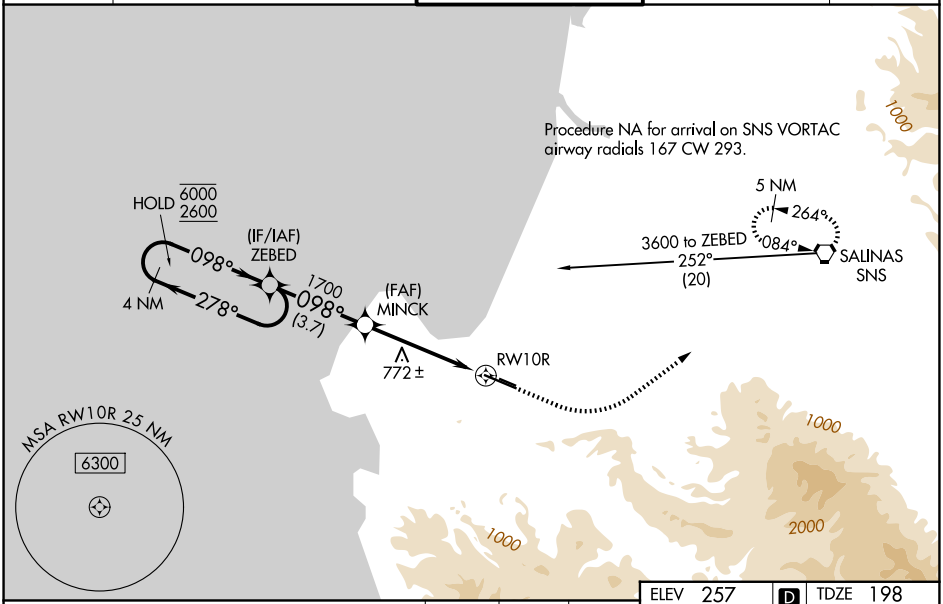
RNP APCH - GPS.

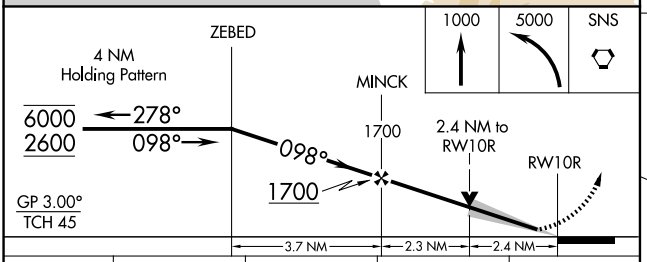
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2°C or above 54°C. Circling NA south of Rwy 10R-28L. For inop ALS, increase LPV all Cats visibility to 1⅜ SM and LNAV Cat C/D visibility to 2½ SM.
*RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 1000 then climbing left turn to 5000 direct SNS VORTAC and hold, continue climb-in-hold to 5000.
*Missed approach requires minimum climb of 387 feet per NM to 1700.

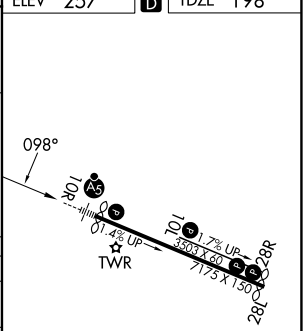
ATIS	NORCAL APP CON	MONTEREY TOWER *	GND CON	UNICOM
119.25	133.0 251.15 (001°-135°) 127.15 307.125 (136°-360°)	118.4 (CTAF) L 257.8	120.875 348.6	122.95





CATEGORY	A	B	C	D
LPV DA*	398/24 200 (200-½)			
LPV DA	677/50 479 (500-1)			
LNAV/VNAV DA	754/60 556 (500-1¼)			
LNAV MDA	980/24 782 (800-½)	980/40 782 (800-¾)	980-1¾ 782 (800-1¾)	
CIRCLING	980-1 723 (800-1)	980-1¼ 723 (800-1¼)	1280-3 1023 (1100-3)	NA

ELEV 257 D TDZE 198



MIRL Rwy 10L-28R
HIRL Rwy 10R-28L L
REIL Rwy 28L L
REIL Rwys 10L and 28R

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 61237 W28A	APP CRS 261°	Rwy Ldg 7000 TDZE 257 Apt Elev 257

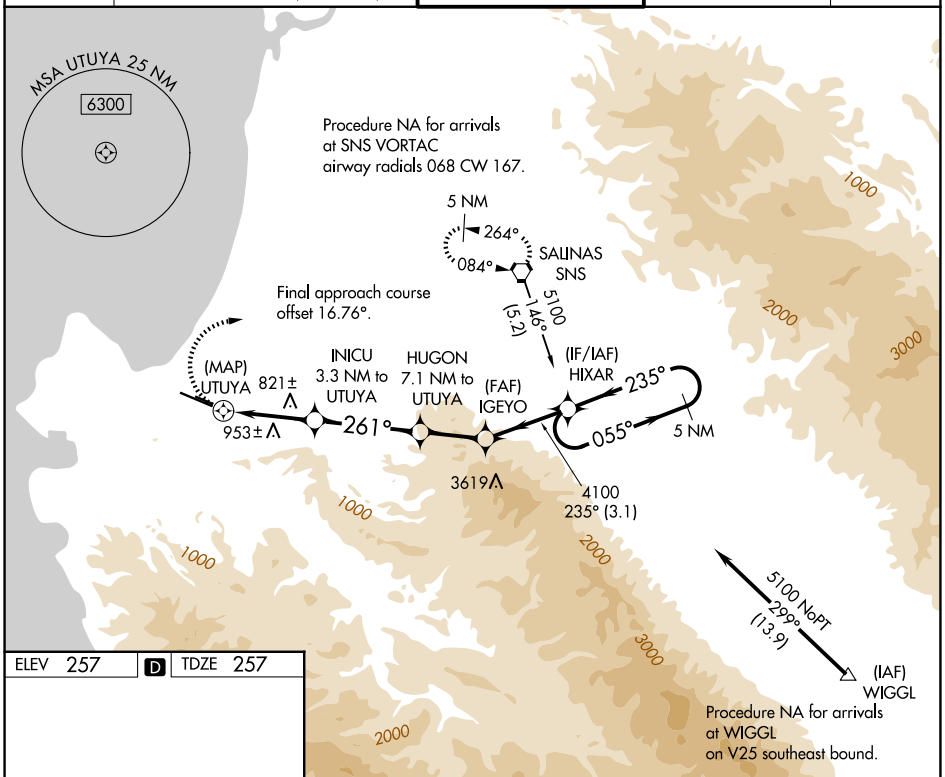
RNAV (GPS) Y RWY 28L

MONTEREY RGNL (MRY)

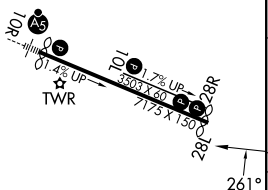
Circling NA South of Rwy 28L-10R. DME/DME RNP-0.3 NA.
Helicopter visibility reduction below RVR 4000 NA.

MISSED APPROACH: Climbing right turn to 6000 direct SNS VORTAC and hold, continue climb-in-hold to 6000.

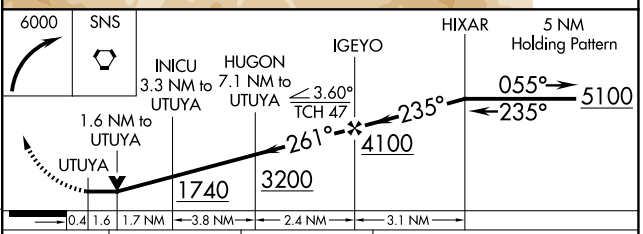
ATIS	NORCAL APP CON	MONTEREY TOWER ★	GND CON	UNICOM
119.25	133.0 251.15 (001°-135°) 127.15 307.125 (136°-360°)	118.4 (CTAF) L 257.8	120.875 348.6	122.95



ELEV 257 D TDZE 257



MIRL Rwy 10L-28R
HIRL Rwy 10R-28L L
REIL Rwy 28L L
REIL Rwys 10L and 28R



CATEGORY	A	B	C	D
LP MDA	1080/55 823 (900-1)	1080/60 823 (900-1¼)	1080-2½ 823 (900-2½)	NA
LNAV MDA	1120/55 863 (900-1)	1120/60 863 (900-1¼)	1120-2½ 863 (900-2½)	NA
CIRCLING	1120-1¼ 863 (900-1¼)		1260-3 1003 (1100-3)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC RWY 28L

MONTEREY RGNL (MRY)

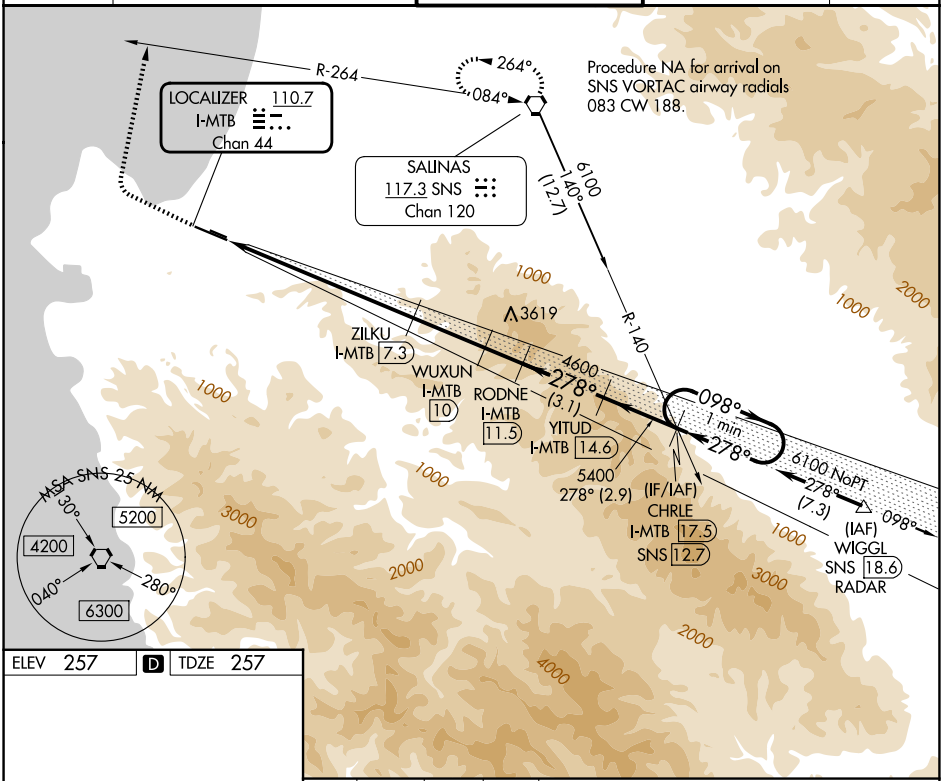
LOC/DME I-MTB	APP CRS	Rwy Ldg	7000
110.7	278°	TDZE	257
Chan 44		Apt Elev	257

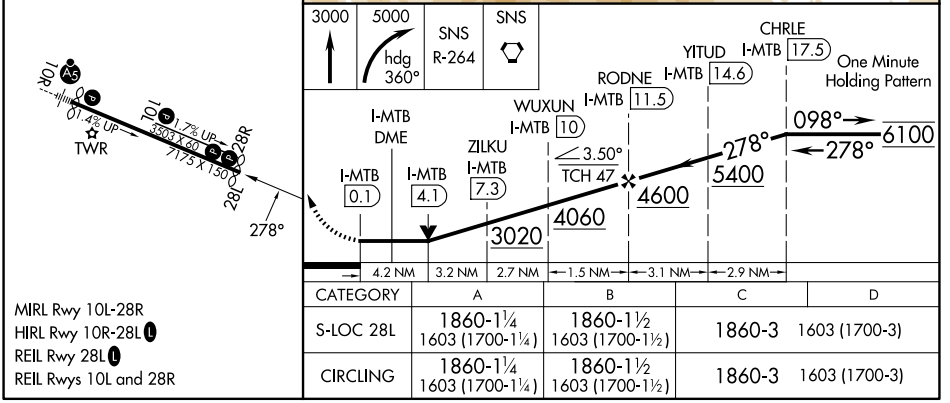
DME required. DME or RADAR required for procedure entry.

Circling NA south of Rwy 10R-28L. Rwy 28L helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 then climbing right turn to 5000 on heading 360° and SNS VORTAC R-264 to SNS VORTAC and hold.

ATIS	NORCAL APP CON	MONTEREY TOWER ★	GND CON	UNICOM
119.25	133.0 251.15 (001°-135°) 127.15 307.125 (136°-360°)	118.4 (CTAF) L 257.8	120.875 348.6	122.95





CATEGORY	A	B	C	D
S-LOC 28L	1860-1¼ 1603 (1700-1¼)	1860-1½ 1603 (1700-1½)	1860-3	1603 (1700-3)
CIRCLING	1860-1¼ 1603 (1700-1¼)	1860-1½ 1603 (1700-1½)	1860-3	1603 (1700-3)

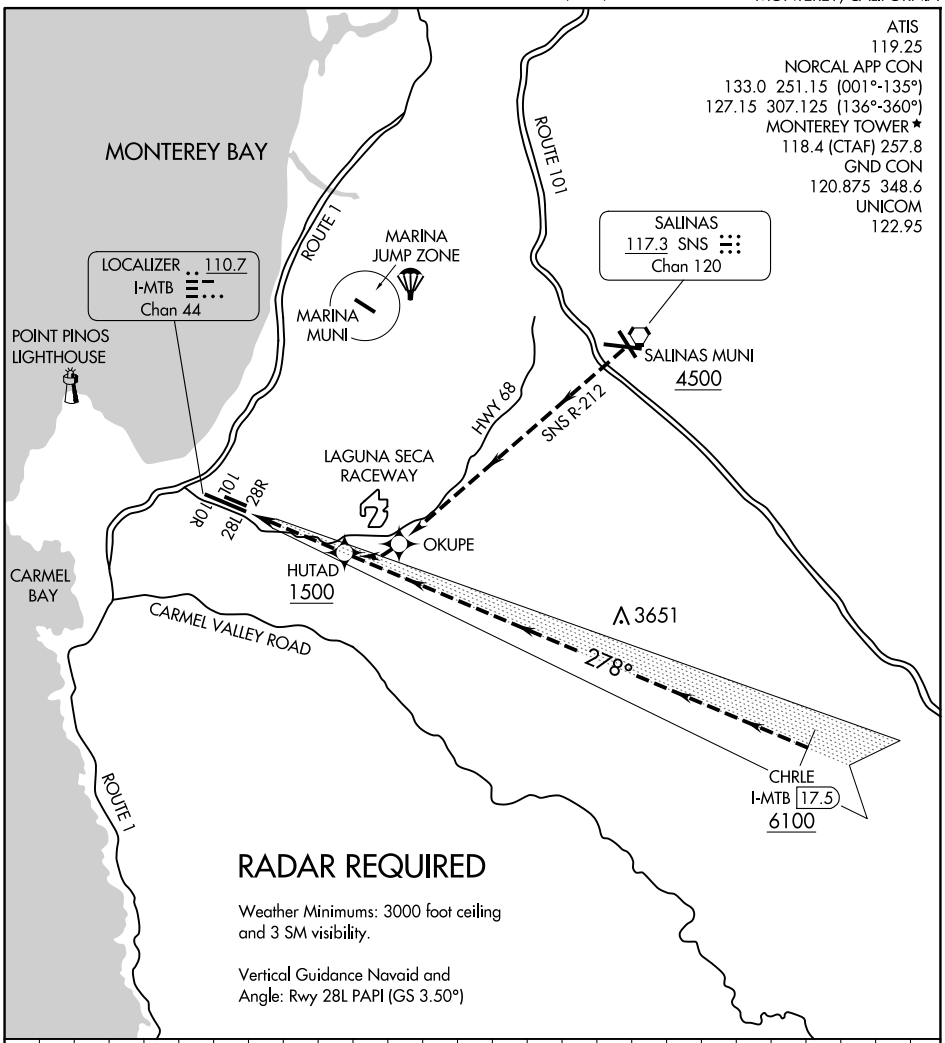
MIRL Rwy 10L-28R
HIRL Rwy 10R-28L L
REIL Rwy 28L L
REIL Rwys 10L and 28R

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RACEWAY VISUAL RWY 28L

AL-271 (FAA)

MONTEREY RGNL (MRY)
MONTEREY, CALIFORNIA



RACEWAY VISUAL APPROACH RWY 28L

PROCEDURE NOT AUTHORIZED AT NIGHT.

From the east, proceed to Salinas Municipal Airport, then proceed southwest, remaining east of State Highway 68 until abeam Laguna Seca Raceway.
From the southeast, proceed from CHRLE on 278° course to HUTAD (1 mile south of Laguna Seca Raceway).

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26134

AIRPORT DIAGRAM

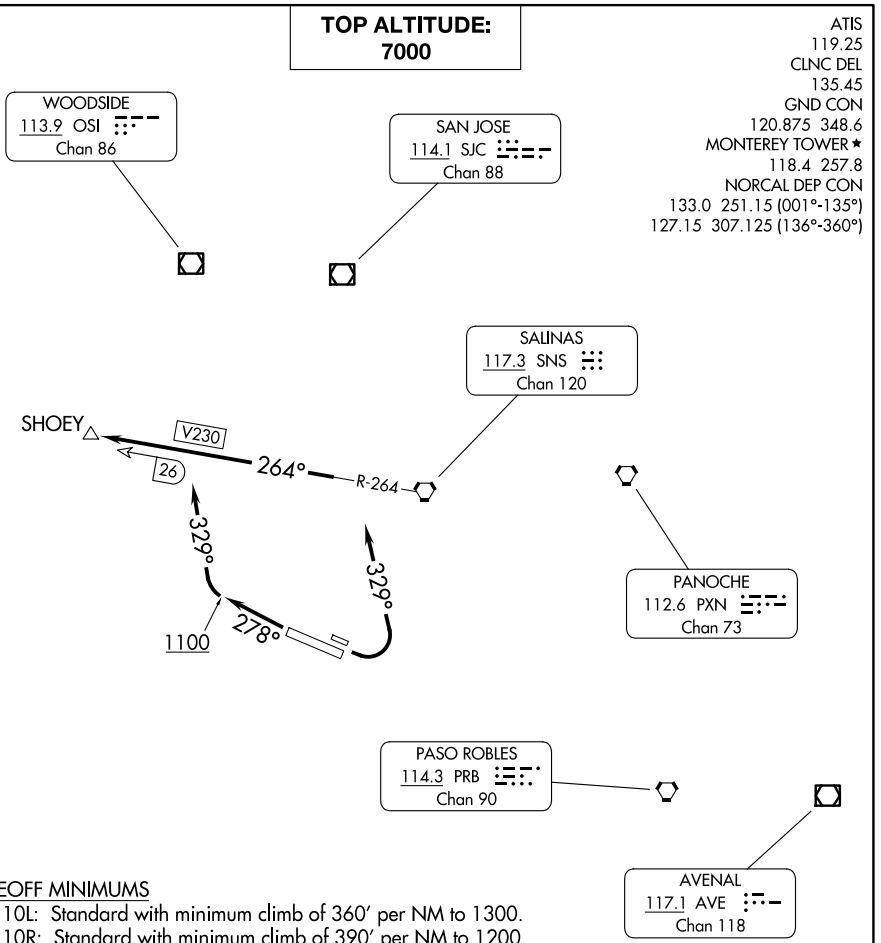
AL-271 (FAA)

MONTEREY RGNL (MRY)
MONTEREY, CALIFORNIA

AIRPORT DIAGRAM
26134
MONTEREY, CALIFORNIA
MONTEREY RGNL (MRY)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026



TAKEOFF MINIMUMS
Rwy 10L: Standard with minimum climb of 360′ per NM to 1300.
Rwy 10R: Standard with minimum climb of 390′ per NM to 1200.
Rwy 28L: Standard with minimum climb of 310′ per NM to 1100.
Rwy 28R: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 10L/R: Climbing left turn heading 329°. Thence. . . .

TAKEOFF RUNWAYS 28L/R: Climb heading 278° until leaving 1100 or as directed by Monterey Tower. Then climbing right turn heading 329°. Thence. . . .

. . . .intercept SNS R-264 westbound to SHOEY intersection. Maintain 7000 or assigned altitude. Expect clearance to filed altitude five minutes after departure.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(TORO7.TORO) 23334

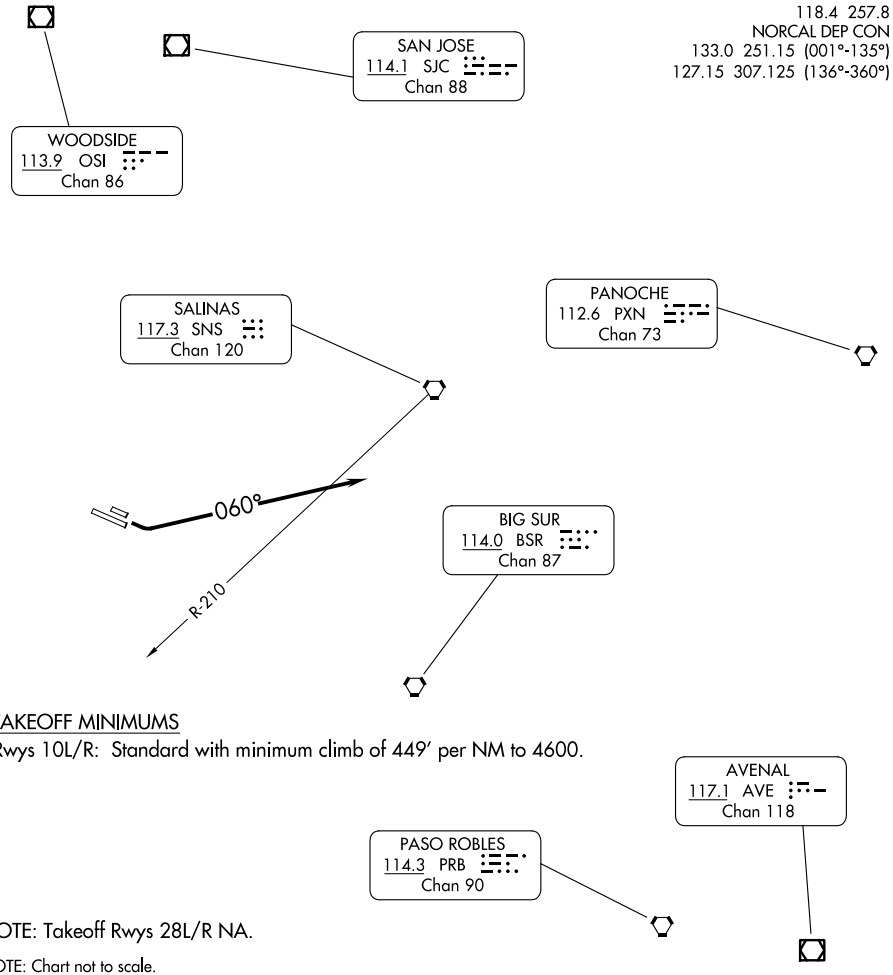
TORO SEVEN DEPARTURE

AL-271 (FAA)

MONTEREY RGNL (MRY)
MONTEREY, CALIFORNIA

TOP ALTITUDE: 7000

ATIS 119.25
GND CON 120.875 348.6
MONTEREY TOWER ★ 118.4 257.8
NORCAL DEP CON 133.0 251.15 (001°-135°) 127.15 307.125 (136°-360°)



TAKEOFF MINIMUMS

Rwys 10L/R: Standard with minimum climb of 449′ per NM to 4600.

NOTE: Takeoff Rwys 28L/R NA.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 10L/R: Climbing left turn heading 060°. Expect vectors to filed route after passing SNS R-210. Maintain 7000 or assigned altitude. Expect clearance to filed altitude five minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, climb direct SNS VORTAC, then via assigned fix/route. Maintain 7000.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ILS or LOC RWY 32R

MOFFETT FEDERAL AIRFIELD (NUQ)

LOC/DME I-NUQ	APP CRS	Rwy Ldg	9006
110.35	322°	TDZE	31
Chan 40 (Y)		Apt Elev	37

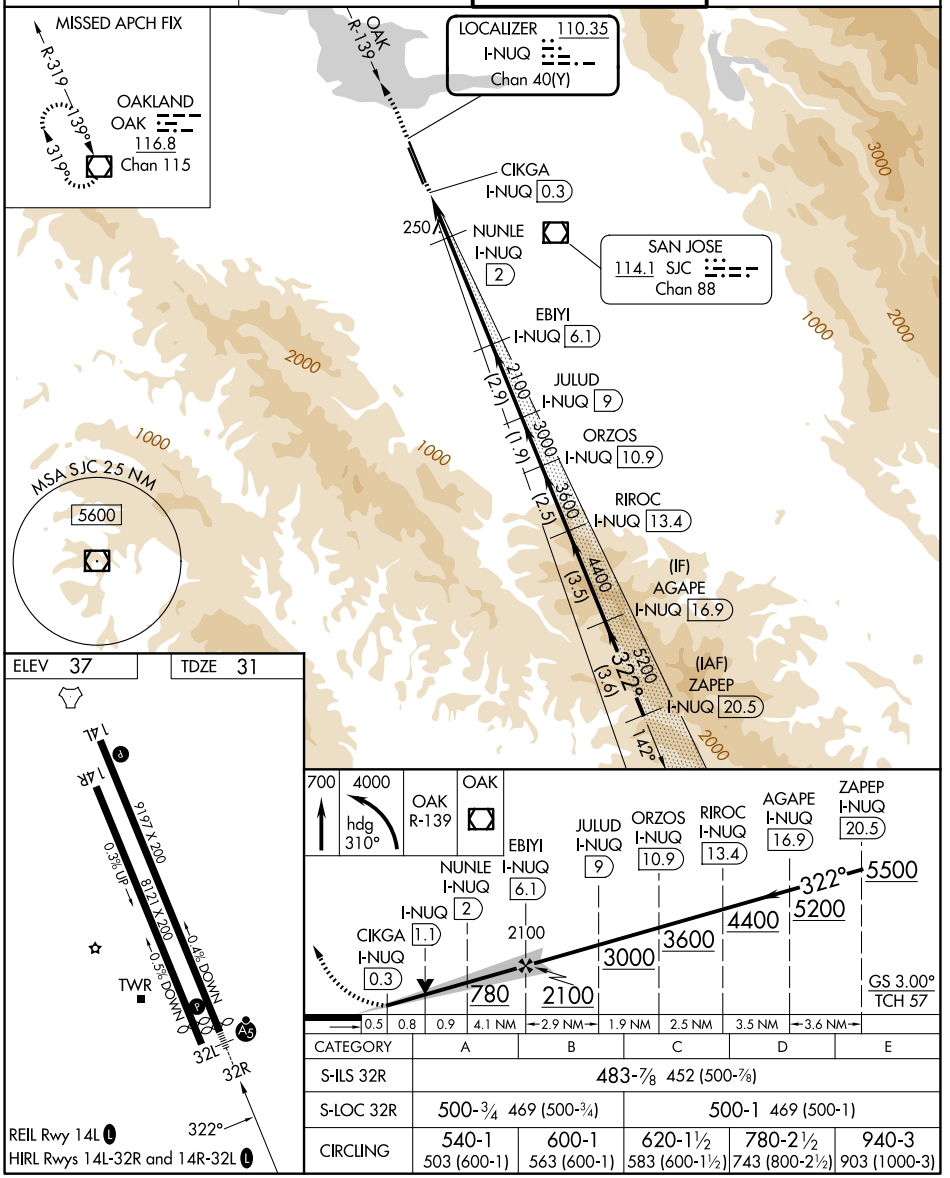
DME required. RADAR required for procedure entry.

For inop ALS, increase S-ILS 32R visibility all Cats to 1⅜ SM and S-LOC 32R Cat A/B to 1 SM and C/D/E to 1⅜ SM.

MALSR

MISSED APPROACH: Climb to 700 then climbing left turn to 4000 on heading 310° and on OAK VOR/DME R-139 to OAK VOR/DME and hold.

ATIS	NORCAL APP CON	MOFFETT TOWER ★	GND CON
124.175 283.0	120.1 290.25	119.55 (CTAF) L 259.65	121.85 278.95



CATEGORY	A	B	C	D	E
S-ILS 32R	483-⅞ 452 (500-⅞)				
S-LOC 32R	500-¾ 469 (500-¾)		500-1 469 (500-1)		
CIRCLING	540-1 503 (600-1)	600-1 563 (600-1)	620-1½ 583 (600-1½)	780-2½ 743 (800-2½)	940-3 903 (1000-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MOUNTAIN VIEW, CALIFORNIA | AL-410 (FAA) | 25275

RNAV (GPS) RWY 14L

MOFFETT FEDERAL AIRFIELD (NUQ)

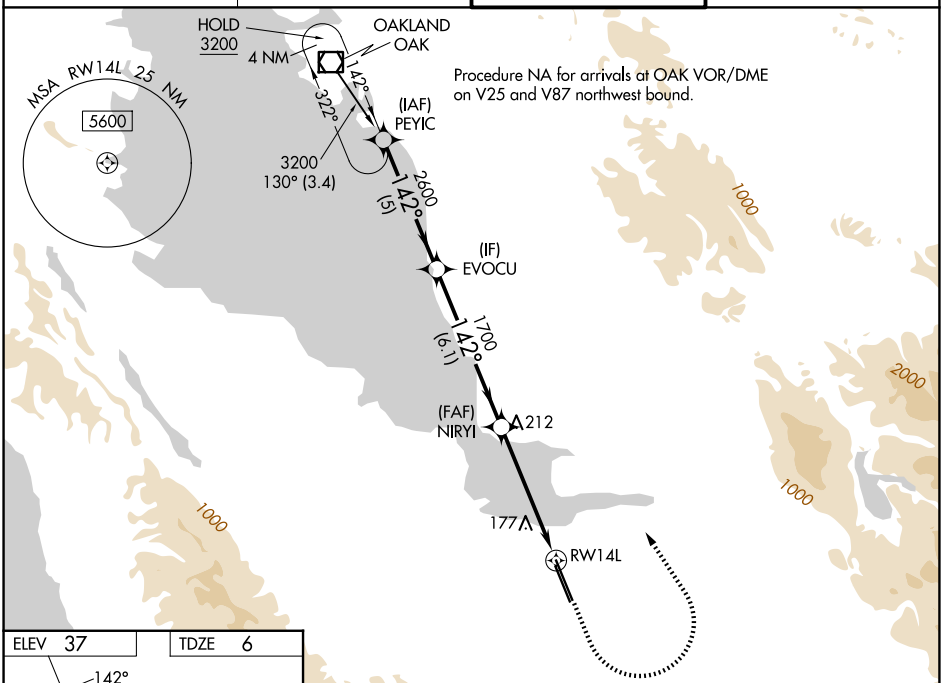
WAAS	APP CRS	Rwy Ldg	9197
CH 70442	142°	TDZE	6
W14A		Apt Elev	37

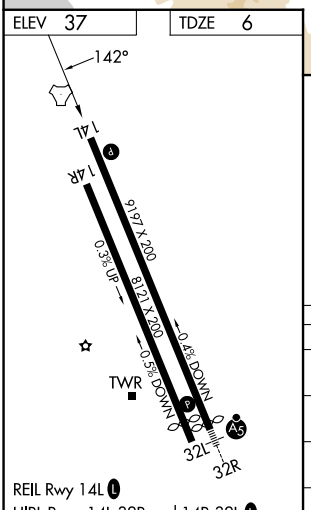
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C or above 54°C .

MISSED APPROACH: Climb to 500 then climbing left turn to 3200 direct PEYIC and hold.

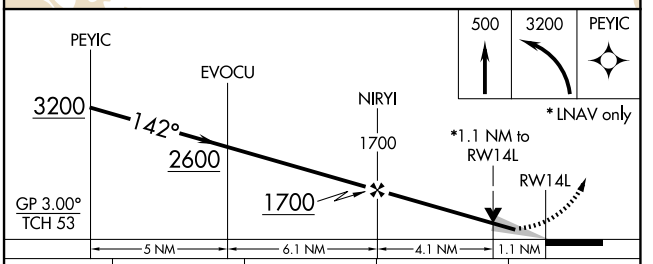
ATIS	NORCAL APP CON	MOFFETT TOWER*	GND CON
124.175 283.0	120.1 290.25	119.55 (CTAF) L 259.65	121.85 278.95





REIL Rwy 14L L

HIRL Rwys 14L-32R and 14R-32L L



CATEGORY	A	B	C	D
LPV DA	256-¾ 250 (300-¾)			
LNAV/VNAV DA	326-⅞ 320 (300-⅞)			
LNAV MDA	440-1 434 (500-1)		440-1¼ 434 (500-1¼)	
CIRCLING	540-1 503 (600-1)	600-1 563 (600-1)	620-1½ 583 (600-1½)	780-2¼ 743 (800-2¼)

MOUNTAIN VIEW, CALIFORNIA

Amdt 1 20JUN19

37°25'N-122°03'W

MOFFETT FEDERAL AIRFIELD (NUQ)

RNAV (GPS) RWY 14L

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 14R

MOFFETT FEDERAL AIRFIELD (NUQ)

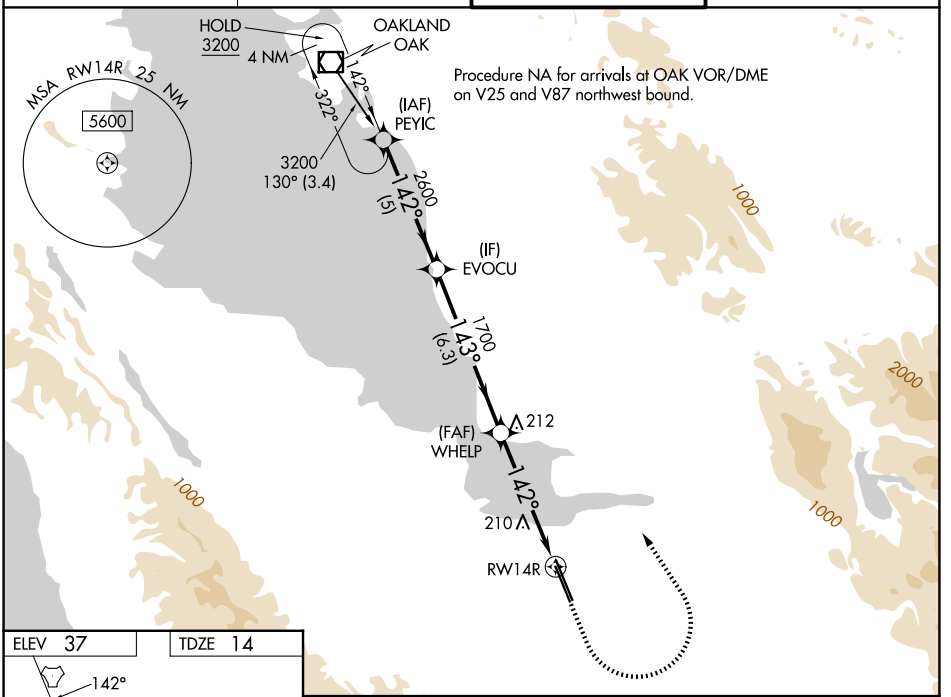
WAAS CH 81942 W14B	APP CRS 142°	Rwy Ldg 8121	TDZE 14	Apt Elev 37

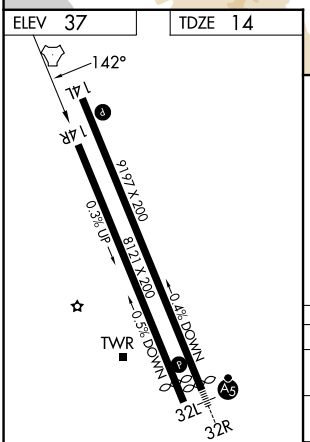
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C or above 54°C.

MISSED APPROACH: Climb to 540 then climbing left turn to 3200 direct PEYIC and hold.

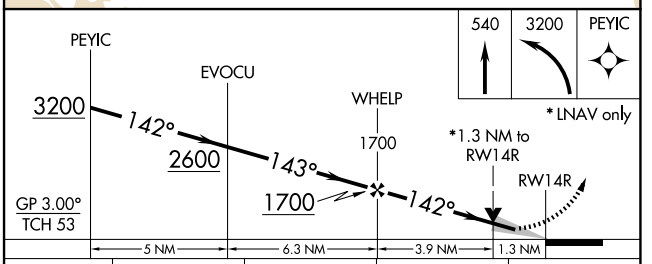
ATIS	NORCAL APP CON	MOFFETT TOWER ★	GND CON
124.175 283.0	120.1 290.25	119.55 (CTAF) L 259.65	121.85 278.95





REIL Rwy 14L L

HIRL Rwys 14L-32R and 14R-32L L



CATEGORY	A	B	C	D
LPV DA	264-¾ 250 (300-¾)			
LNAV/VNAV DA	364-1 350 (400-1)			
LNAV MDA	460-1 446 (500-1)		460-1⅜ 446 (500-1⅜)	
CIRCLING	540-1 503 (600-1)	600-1 563 (600-1)	620-1½ 583 (600-1½)	780-2¼ 743 (800-2¼)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MOUNTAIN VIEW, CALIFORNIA | AL-410 (FAA) | 26022

RNAV (GPS) RWY 32L

MOFFETT FEDERAL AIRFIELD (NUQ)

WAAS	APP CRS	Rwy Ldg	7521
CH 50242	322°	TDZE	37
W32A		Apt Elev	37

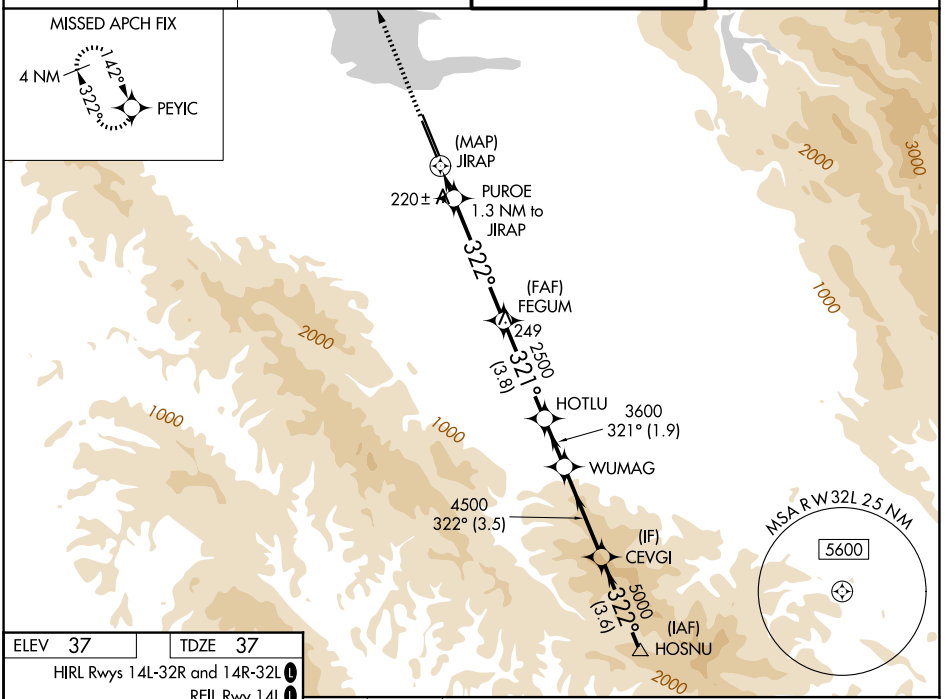
RNP APCH - GPS.

Rwy 32L helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C or above 47°C .

MISSED APPROACH: Climb to 3200 direct PEYIC and hold.

ATIS	NORCAL APP CON	MOFFETT TOWER★	GND CON
124.175 283.0	120.1 290.25	119.55 (CTAF) L 259.65	121.85 278.95

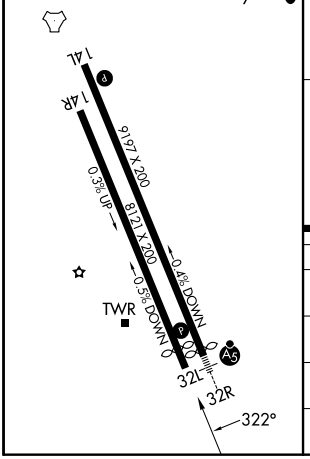
MISSED APCH FIX

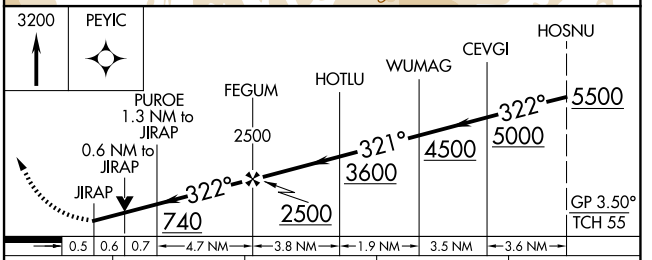


ELEV 37 | TDZE 37

HIRL Rwys 14L-32R and 14R-32L L

REIL Rwy 14L L





CATEGORY	A	B	C	D
LPV DA	338-⅞ 301 (300-⅞)			
LNAV/VNAV DA	478-1⅜ 441 (500-1⅜)			
LNAV MDA	480-1 443 (500-1)		480-1⅜ 443 (500-1⅜)	
CIRCLING	540-1 503 (600-1)	600-1 563 (600-1)	620-1½ 583 (600-1½)	780-2¼ 743 (800-2¼)

MOUNTAIN VIEW, CALIFORNIA

Amdt 1A 16MAY24

37°25'N-122°03'W

MOFFETT FEDERAL AIRFIELD (NUQ)

RNAV (GPS) RWY 32L

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 53343 W32B	APP CRS 322°	Rwy Ldg 9006 TDZE 31 Apt Elev 37

RNAV (GPS) RWY 32R

MOFFETT FEDERAL AIRFIELD (NUQ)

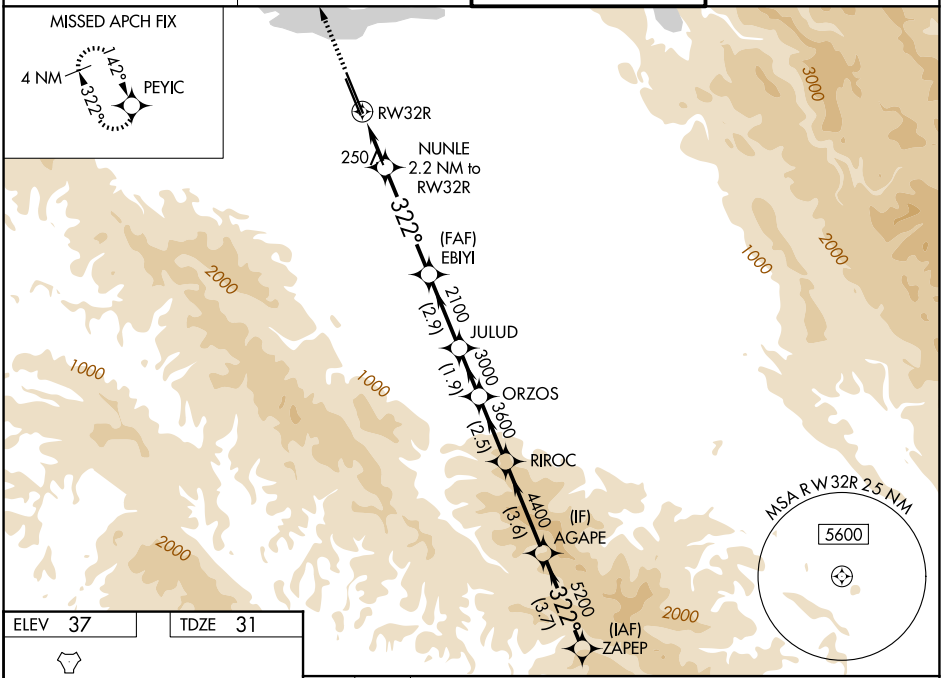
RNP APCH - GPS.

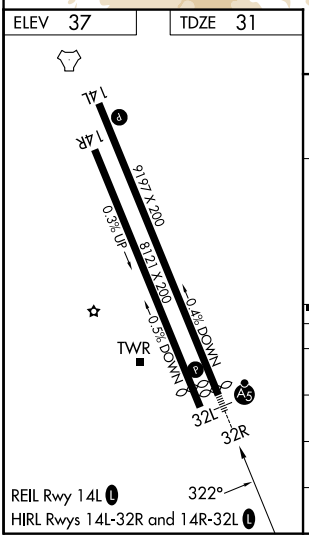
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. Rwy 32R helicopter visibility reduction below ¾ SM NA. For inop ALS increase LPV all Cats visibility to 1¼ SM, LNAV/VNAV all Cats visibility to 1⅜ SM and LNAV Cats A/B to 1 SM and Cats C/D visibility to 1⅜ SM.

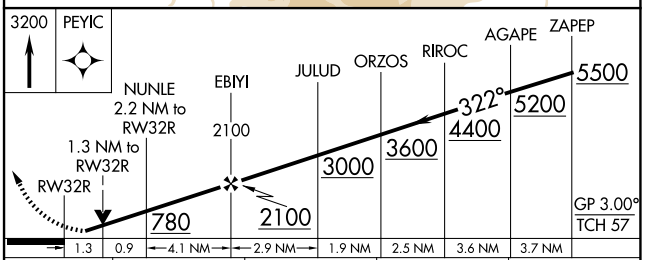
MALSR

MISSED APPROACH: Climb to 3200 direct PEYIC and hold.

ATIS	NORCAL APP CON	MOFFETT TOWER★	GND CON
124.175 283.0	120.1 290.25	119.55 (CTAF) L 259.65	121.85 278.95







CATEGORY	A	B	C	D
LPV DA	452-¾ 421 (500-¾)			
LNAV/VNAV DA	493-1 462 (500-1)			
LNAV MDA	500-¾ 469 (500-¾)		500-1 469 (500-1)	
CIRCLING	540-1 503 (600-1)	600-1 563 (600-1)	620-1½ 583 (600-1½)	780-2½ 743 (800-2½)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MOUNTAIN VIEW, CALIFORNIA AL-410 (FAA) 25275

LOC RWY 14L

MOFFETT FEDERAL AIRFIELD (NUQ)

LOC/DME I-MNQ	APP CRS	Rwy Ldg 9197
110.35	142°	TDZE 6
Chan 40 (Y)		Apt Elev 37

DME required. RADAR required for procedure entry.

MISSED APPROACH: Climb to 500 then climbing left turn to 3200 on heading 350° and SJC VOR/DME R-312 to PEYIC/SJC 21.6 DME and hold.

ATIS	NORCAL APP CON	MOFFETT TOWER ★	GND CON
124.175 283.0	120.1 290.25	119.55 (CTAF) L 259.65	121.85 278.95

ALTERNATE MISSED APCH FIX

116.8 OAK R-129 Chan 115

PEYIC OAK 3.4

29° 30°

322° R-312 132° 1 min 312°

(IAF) PEYIC SJC 21.6

HOLD 6000 3200

2600

142° (5)

(IF) EVOCU I-MNQ 12.9

1700 142° (6.1)

NIRYI I-MNQ 6.8

R-312

JOVNI I-MNQ 3.7

CILGU I-MNQ 2.1

LOCALIZER 110.35 I-MNQ Chan 40(Y)

SAN JOSE 114.1 SJC Chan 88

MSA SJC 25 NM 5600

1000 2000

ELEV 37 TDZ 6

142°

14L 14R 9197 X 200 8121 X 200 0.4% DOWN 0.5% UP 0.5% DOWN TWR 32L 32R

REIL Rwy 14L L

HIRL Rwys 14L-32R and 14R-32L L

One Minute Holding Pattern

PEYIC SJC 21.6 EVOCU I-MNQ 12.9 NIRYI I-MNQ 6.8 JOVNI I-MNQ 3.7 I-MNQ 2.6 CILGU I-MNQ 2.1

6000 3200 312° 132° 142° 2600 1700 700

3.00° TCH 53

5 NM 6.1 NM 3.1 NM 1.1 0.5 0.4

500 3200 hdg 350° SJC R-312 PEYIC SJC 21.6

CATEGORY	A	B	C	D
S-LOC 14L	360-1 354 (400-1)			
CIRCLING	540-1 503 (600-1)	600-1 563 (600-1)	620-1½ 583 (600-1½)	780-2½ 743 (800-2½)

MOUNTAIN VIEW, CALIFORNIA

Amdt 2 27JAN22

37°25'N-122°03'W

MOFFETT FEDERAL AIRFIELD (NUQ)

LOC RWY 14L

SW-2, 09 JUL 2026 to 03 SEP 2026

TACAN NUQ Chan 123 (117.6)	APP CRS 321°	Rwy Ldg 7521 TDZE 36 Apt Elev 37

TACAN RWY 32L

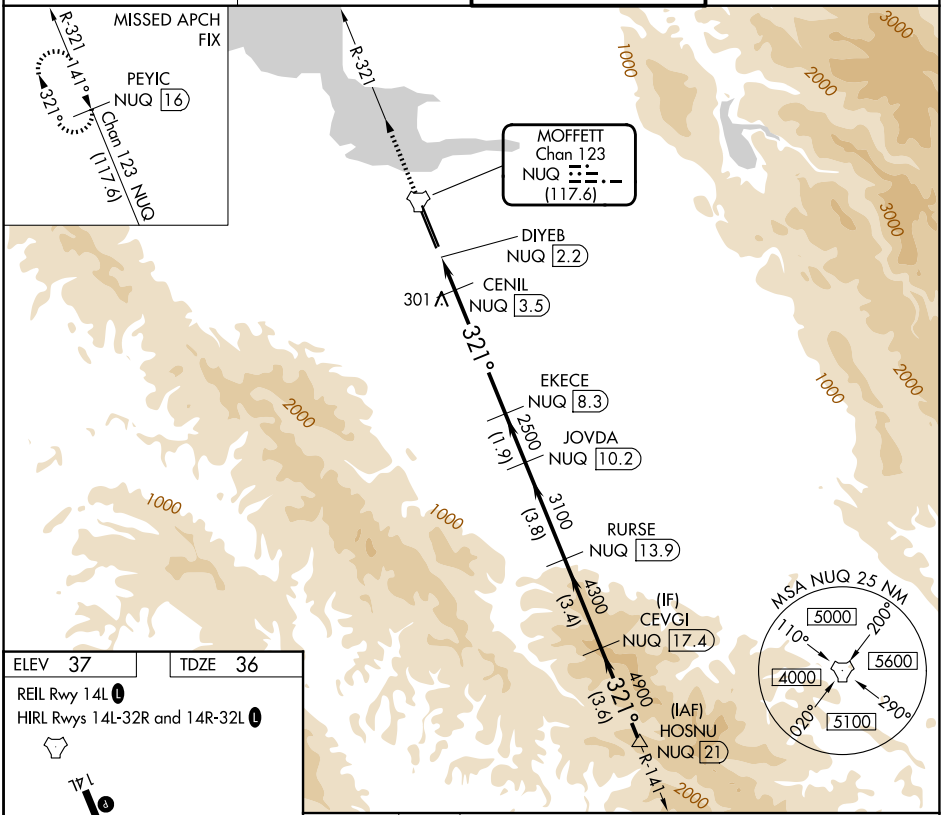
MOFFETT FEDERAL AIRFIELD (NUQ)

RADAR required for procedure entry.

Rwy 32L helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3200 on NUQ TACAN R-321 to PEYIC/16 DME and hold.

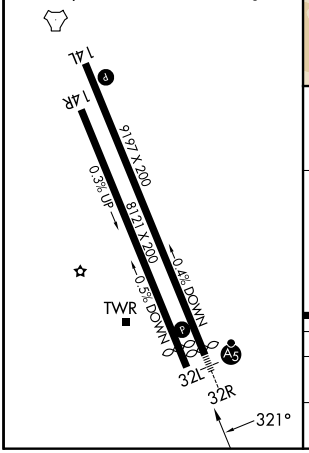
ATIS	NORCAL APP CON	MOFFETT TOWER★	GND CON
124.175 283.0	120.1 290.25	119.55 (CTAF) L 259.65	121.85 278.95

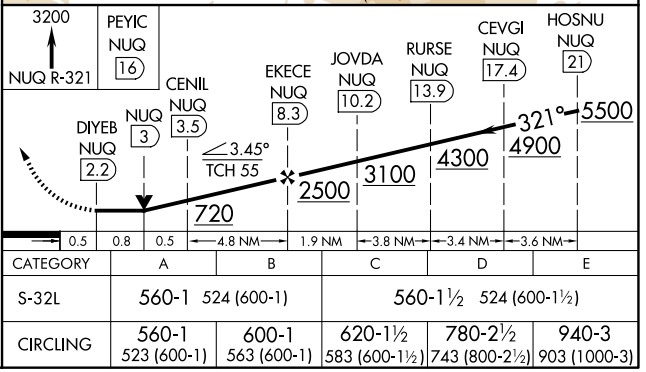


ELEV 37	TDZE 36

REIL Rwy 14L L

HIRL Rwys 14L-32R and 14R-32L L





CATEGORY	A	B	C	D	E
S-32L	560-1 524 (600-1)		560-1½ 524 (600-1½)		
CIRCLING	560-1 523 (600-1)	600-1 563 (600-1)	620-1½ 583 (600-1½)	780-2½ 743 (800-2½)	940-3 903 (1000-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MOUNTAIN VIEW, CALIFORNIA | AL-410 (FAA) | 26022

TACAN RWY 32R

MOFFETT FEDERAL AIRFIELD (NUQ)

TACAN NUQ Chan 123 (117.6)	APP CRS 321°	Rwy Ldg 9006 / TDZE 31 / Apt Elev 37

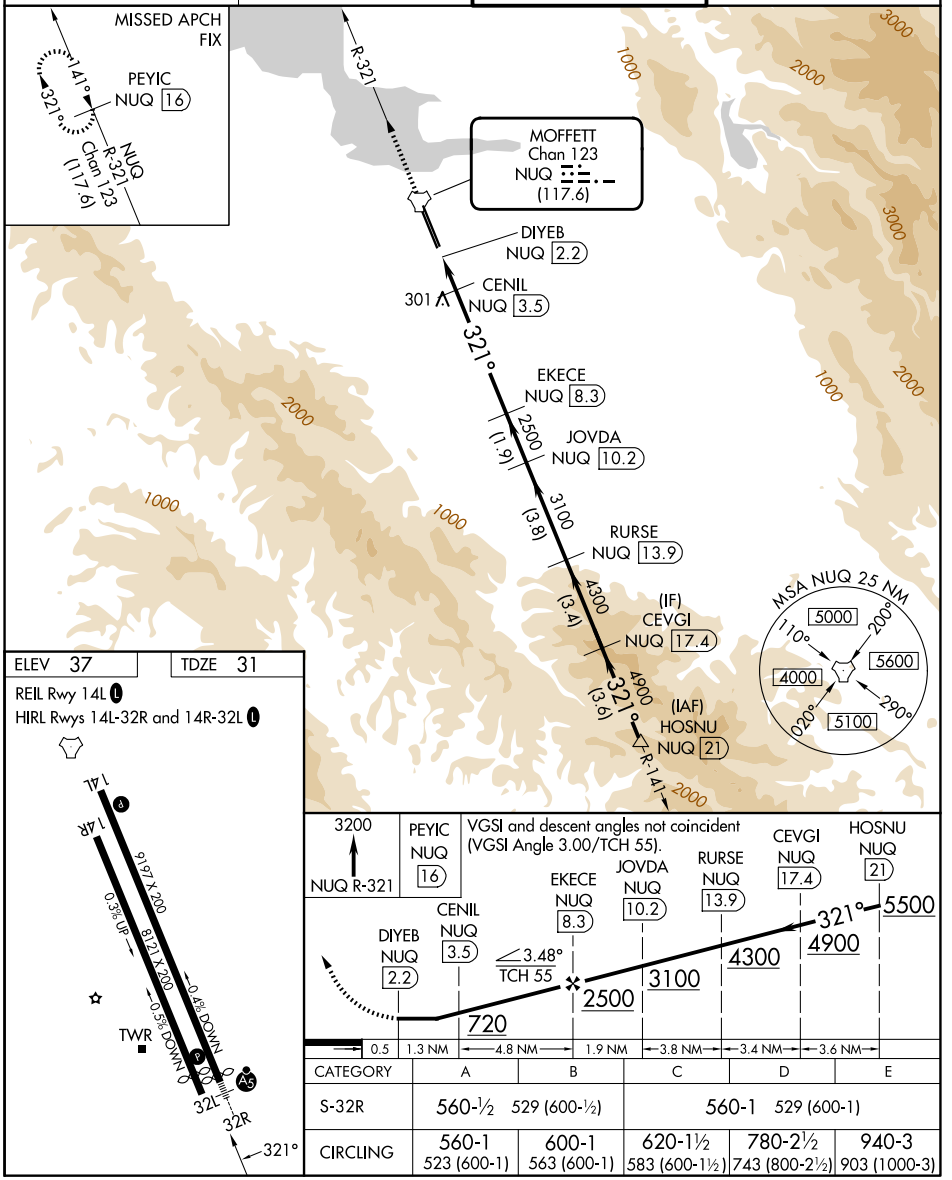
RADAR required for procedure entry.

For inop ALS, increase Cat E visibility to 1½ SM.

MALSR

MISSED APPROACH: Climb to 3200 on NUQ TACAN R-321 to PEYIC/16 DME and hold.

ATIS	NORCAL APP CON	MOFFETT TOWER ★	GND CON
124.175 283.0	120.1 290.25	119.55 (CTAF) L 259.65	121.85 278.95



ELEV 37	TDZE 31

REIL Rwy 14L L

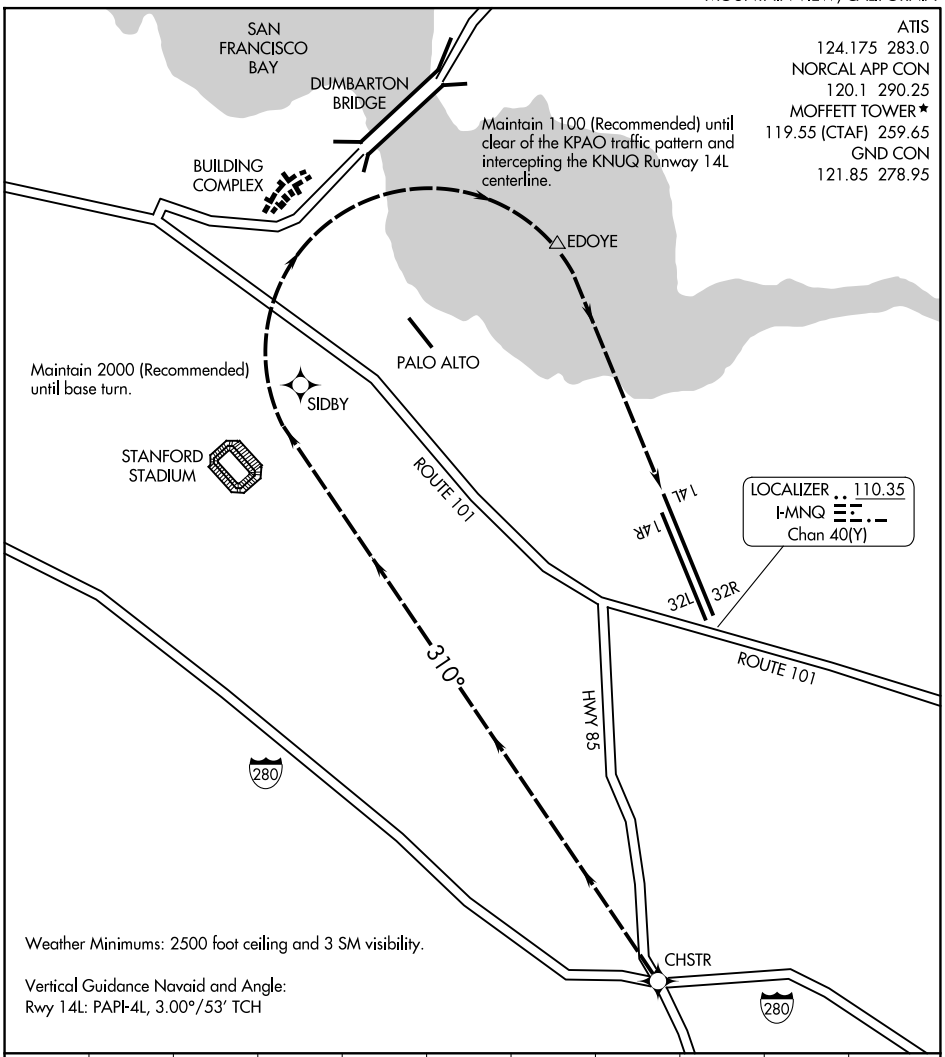
HIRL Rwys 14L-32R and 14R-32L L

CATEGORY	A	B	C	D	E
S-32R	560-½ 529 (600-½)		560-1 529 (600-1)		
CIRCLING	560-1 523 (600-1)	600-1 563 (600-1)	620-1½ 583 (600-1½)	780-2½ 743 (800-2½)	940-3 903 (1000-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

DUMBARTON VISUAL RWY 14L

MOFFETT FEDERAL AIRFIELD (NUQ)
MOUNTAIN VIEW, CALIFORNIA



DUMBARTON VISUAL RWY 14L

PROCEDURE NOT AUTHORIZED AT NIGHT

From south of KNUQ depart the highway 85/I-280 interchange heading 310°, remain 2 NM west of the KPAO runways and 1/2 NM east of Stanford Stadium. On an extended west downwind, turn base at 2000 (recommended) after passing Stanford Stadium but prior to the Dumbarton Bridge. Remain south and east of the Dumbarton Bridge, maintain 1100 (recommended) until clear of the KPAO traffic pattern and intercepting the KNUQ Runway 14L centerline.

DUMBARTON VISUAL RWY 14L

MOUNTAIN VIEW, CALIFORNIA
MOFFETT FEDERAL AIRFIELD (NUQ)

Amdt 1 11JUL24

37°25'N-122°03'W

SW-2, 09 JUL 2026 to 03 SEP 2026

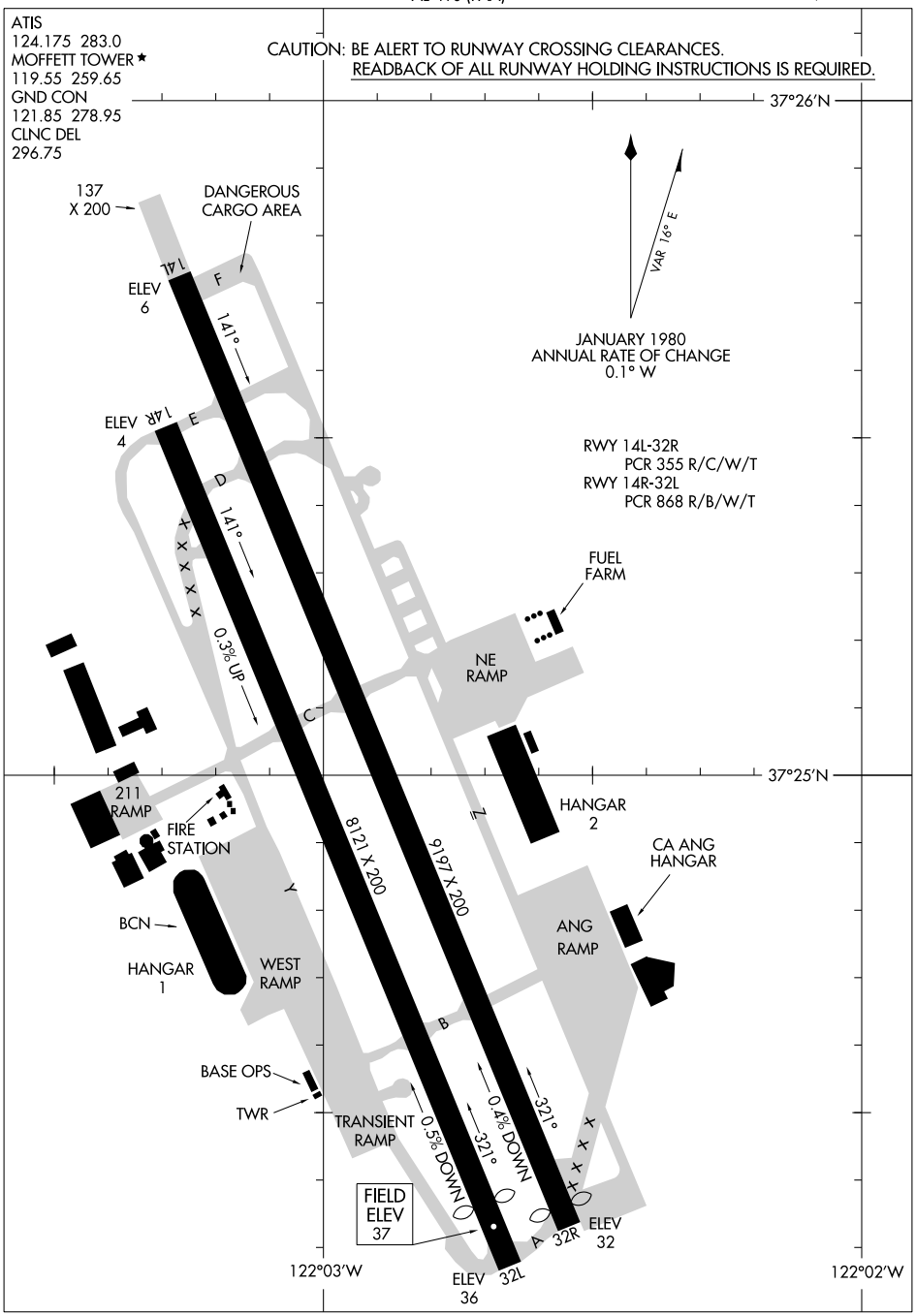
SW-2, 09 JUL 2026 to 03 SEP 2026

26134

AIRPORT DIAGRAM

MOFFETT FEDERAL AIRFIELD (NUQ)
MOUNTAIN VIEW, CALIFORNIA

AL-410 (FAA)



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

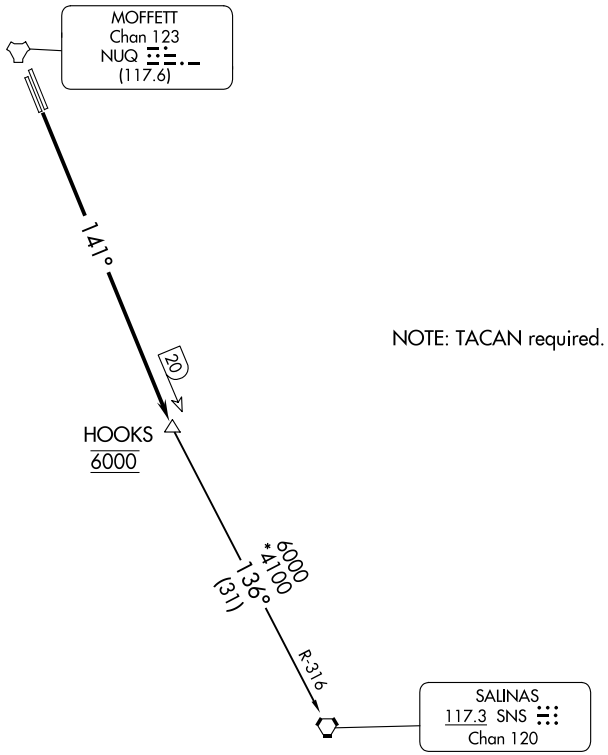
AIRPORT DIAGRAM
26134

MOUNTAIN VIEW, CALIFORNIA
MOFFETT FEDERAL AIRFIELD (NUQ)

HOOKS TWO DEPARTURE

ATIS
124.175 283.0
CLNC DEL
296.75
GND CON
121.85 278.95
MOFFETT TOWER*
119.55 (CTAF) 259.65
NORCAL DEP CON
120.1 290.25

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwy 14R/L: Standard with the following minimum climb gradients:
Rwy 14R: Obstacle climb of 314′ per NM to 4900, ATC climb of 332′ per NM to 6000.
Rwy 14L: Obstacle climb of 314′ per NM to 4900, ATC climb of 328′ per NM to 6000.
Rwy 32R/L: NA, ATC.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 14L/R: Climb via NUQ R-141 to cross HOOKS/NUQ 20 DME at 6000, thence. . . .

. . . . via transition.

VALLEY TRANSITION (HOOKS2.SNS): From over HOOKS DME on SNS R-316 to SNS VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(OSI2.OSI) 23334

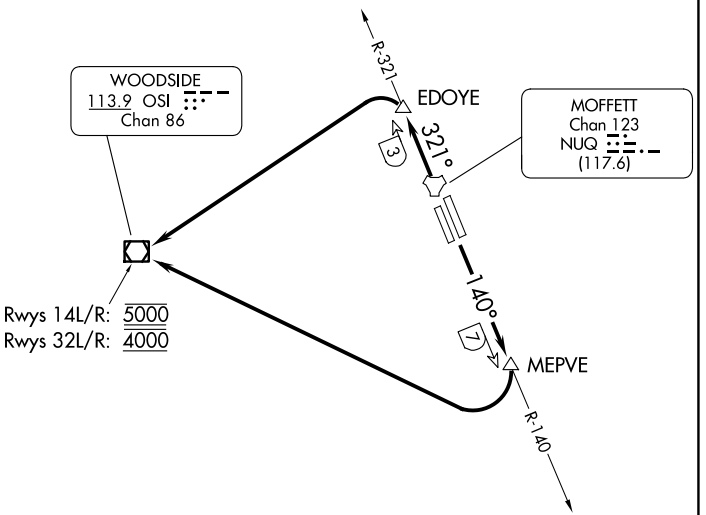
WOODSIDE TWO DEPARTURE

AL-410 (FAA)

MOFFETT FEDERAL AIRFIELD (NUQ)
MOUNTAIN VIEW, CALIFORNIA

ATIS
124.175 283.0
CLNC DEL
296.75
GND CON
121.85 278.95
MOFFETT TOWER ★
119.55 (CTAF) 259.65
NORCAL DEP CON
121.3 270.35

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: TACAN required.

TAKEOFF MINIMUMS

Rwys 14L/R: Standard with minimum climb of 402′ per NM to 5000.
Rwy 32R: Standard with minimum climb of 250′ per NM to 4000.
Rwy 32L: Standard with minimum climb of 246′ per NM to 4000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 14L/R: Climb via NUQ R-140 to MEPVE/NUQ 7 DME, then right turn direct to cross OSI VOR/DME at 5000, thence . . . .

TAKEOFF RUNWAYS 32L/R: Climb via NUQ R-321 to EDOYE/NUQ 3 DME, then turn left direct to cross OSI VOR/DME at 4000, thence . . . .

. . . . via RADAR vectors or assigned route.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-APC	APP CRS	Rwy Ldg	5930
111.3	006°	TDZE	17
Chan 50		Apt Elev	36

ILS Z or LOC Z RWY 1L

NAPA COUNTY (APC)

Autopilot coupled approach NA below 530. Inop table does not apply to S-ILS 1L minimums all Cats. Circling NA for Cats A, B, and C east of Rwy 19R and northwest of Rwy 24. For inop ALS, increase S-LOC 1L Cat C/D visibility to 1⅞ SM. Circling NA for Cat D east of Rwys 19L and 1R.

MALS

MISSED APPROACH: Climb to 500 then climbing left turn to 3200 direct SGD VORTAC and on SGD VORTAC R-230 to BURDE INT/SGD 11.3 DME and hold.

ATIS	OAKLAND CENTER	NAPA TOWER★	GND CON	UNICOM
124.05	127.8 353.5	118.7 (L) (CTAF) 257.8	121.7	122.95

ALTERNATE MISSED APCH FIX

DACER INT
SGD 15.5
101° R-019 281° R-281
112.1 SGD Chan 58
113.7 PYE Chan 84

SCAGGS ISLAND
112.1 SGD
Chan 58

LOCALIZER 111.3
I-APC
Chan 50

2600 to FESAV
162° (9)

R-230 050° 230°

113.7 PYE Chan 84
R-067

CIKPI INT
I-APC 6.5

BURDE INT
SGD 11.3

1800
006° (6)
232

(IF/IAF)
FESAV INT
I-APC 12.5

R-080 113.7 PYE Chan 84

HOLD 4500 2600

R-330 116.2 SAU Chan 109

1 min
006°
186°

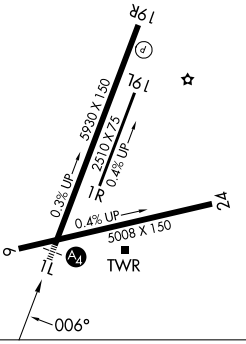
2600 NoPT to FESAV
321° hdg (1.9) and
006° (3.9)

(IAF)
REBAS
SAU 8.4

MSA SGD 25 NM
4300
090° 270°
3800 5000
360°

ELEV 36 TDZE 17

MIRL Rwys 6-24 and 1L-19R (L)
REIL Rwy 6 (L)



FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

One Minute Holding Pattern
FESAV INT
I-APC 12.5

4500 2600
186° 006°

CIKPI INT
I-APC 6.5

006°
1800

I-APC 3

I-APC 1.1

GS 3.00°
TCH 50

6 NM 3.5 NM 1.9 NM

500	3200	SGD	SGD R-230	BURDE INT

CATEGORY	A	B	C	D
S-ILS 1L	217-¾ 200 (200-¾)			
S-LOC 1L	680-¾ 663 (700-¾)		680-1¾ 663 (700-1¾)	
CIRCLING	680-1 644 (700-1)		1280-3 1244 (1300-3)	1300-3 1264 (1300-3)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

NAPA, CALIFORNIA AL-281 (FAA) 25331

APP CRS	Rwy Ldg	5008
062°	TDZE	21
	Apt Elev	36

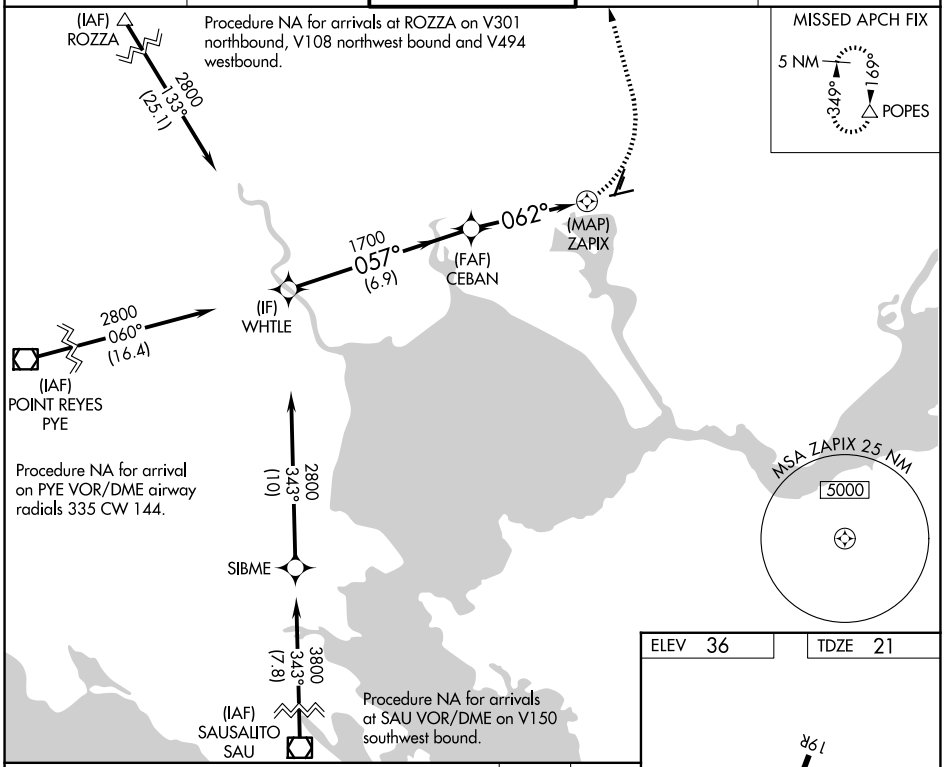
RNAV (GPS) RWY 6
NAPA COUNTY (APC)

RNP APCH-GPS.

Rwy 6 helicopter visibility reduction below ¾ SM NA. Circling Cats A/B/C NA east of Rwy 19R and northwest of Rwy 24. Circling Cat D NA east of Rwy 19L-1R.

MISSED APPROACH: Climbing left turn to 5000 direct POPES and hold, continue climb-in-hold to 5000.
*Missed approach requires minimum climb of 410 feet per NM to 2200.

ATIS	OAKLAND CENTER	NAPA TOWER*	GND CON	UNICOM
124.05	127.8 353.5	118.7 L (CTAF) 257.8	121.7	122.95



CATEGORY	A	B	C	D
LNAV MDA*	480-1	459 (500-1)	480-1⅜	459 (500-1⅜)
LNAV MDA	1340-1¼ 1319 (1400-1¼)	1340-1½ 1319 (1400-1½)	1340-3	1319 (1400-3)
CIRCLING	1340-1¼ 1304 (1400-1¼)	1340-1½ 1304 (1400-1½)	1340-3	1304 (1400-3)

REIL Rwy 6 L
MIRL Rwys 6-24 and 1L-19R L

NAPA, CALIFORNIA
Amdt 3 24MAR22

38°13′N-122°17′W

NAPA COUNTY (APC)
RNAV (GPS) RWY 6

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	5930
166°	TDZE	30
	Apt Elev	36

RNAV (GPS) RWY 19R

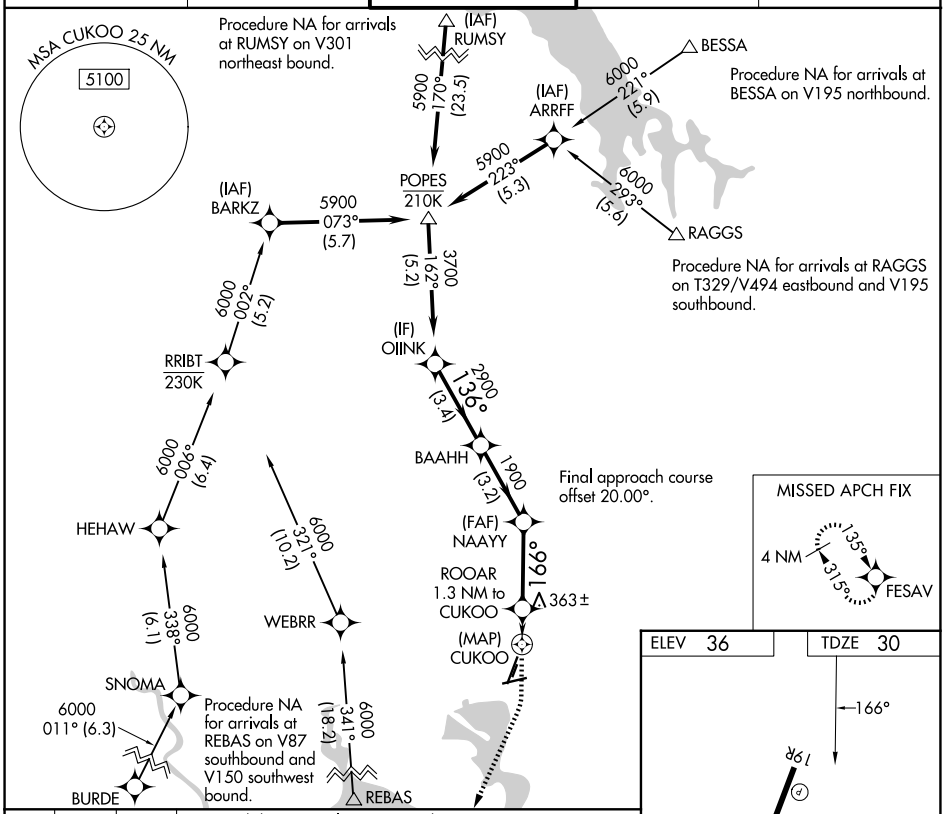
NAPA COUNTY (APC)

RNP APCH - GPS.

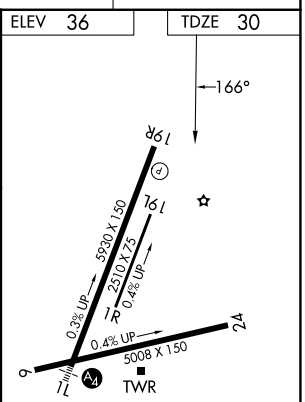
Rwy 19R helicopter visibility reduction below ¾ SM NA. Circling Cats A/B/C NA east of Rwy 19R and northwest of Rwy 24. Circling Cat D NA east of Rwy 19L-1R.

MISSED APPROACH: Climb to 700 then climbing right turn to 3000 direct FESAV and hold.

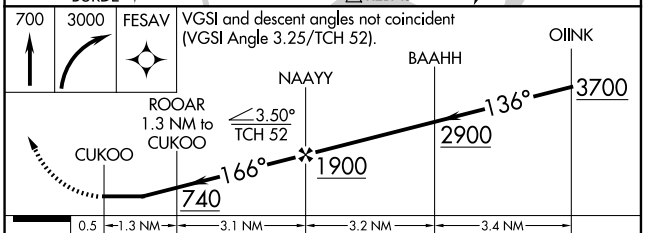
ATIS	OAKLAND CENTER	NAPA TOWER★	GND CON	UNICOM
124.05	127.8 353.5	118.7 (CTAF) 257.8	121.7	122.95



MISSED APCH FIX



REIL Rwy 6 (L)
MIRL Rwys 6-24 and 1L-19R (L)



CATEGORY	A	B	C	D
LNAV MDA	680-1	650 (700-1)	680-1⅞	650 (700-1⅞)
CIRCLING	680-1	644 (700-1)	1280-3 1244 (1300-3)	1300-3 1264 (1300-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

NAPA, CALIFORNIA | AL-281 (FAA) | 26134

WAAS	APP CRS	Rwy Ldg	5930
CH 56613	006°	TDZE	17
W01A		Apt Elev	36

RNAV (GPS) Y RWY 1L

NAPA COUNTY (APC)

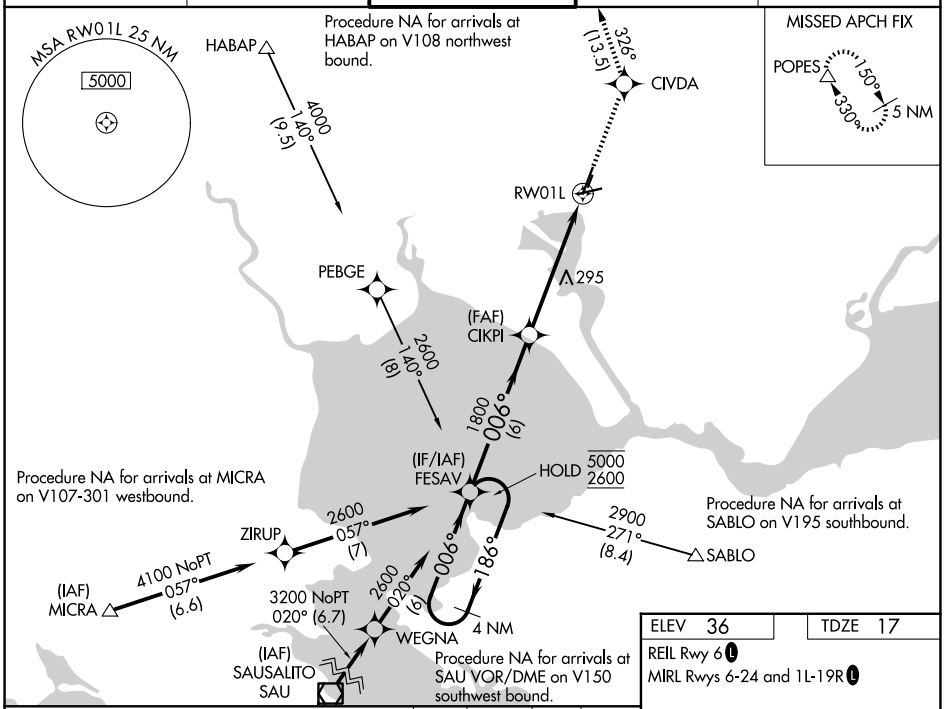
RNP APCH - GPS.

T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C. Inop table does not apply to LPV, LNAV/VNAV all Cats, and LNAV Cats A/C/D. Circling Cats A/B/C NA northeast of Rwys 19R and 24. Circling Cat D NA east of Rwys 19L and 1R.

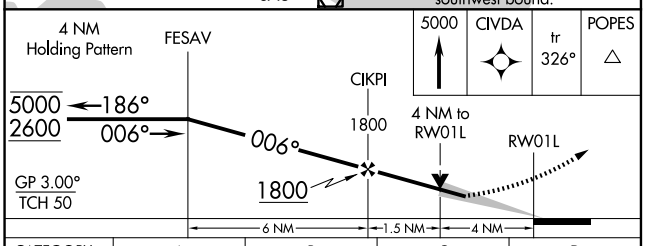
MALS

MISSED APPROACH: Climb to 5000 direct CIVDA and on track 326° to POPES and hold, continue climb-in-hold to 5000.

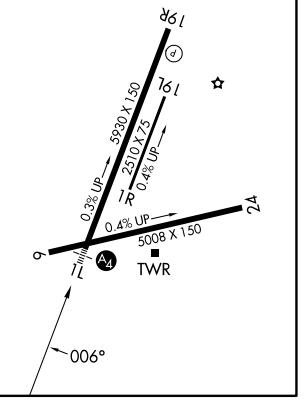
ATIS	OAKLAND CENTER	NAPA TOWER *	GND CON	UNICOM
124.05	127.8 353.5	118.7 L (CTAF) 257.8	121.7	122.95



ELEV 36	TDZE 17
REIL Rwy 6 L	
MIRL Rwys 6-24 and 1L-19R L	



CATEGORY	A	B	C	D
LPV DA	1252-5 1235 (1300-5)			
LNAV/VNAV DA	1051-4 1034 (1100-4)			
LNAV MDA	1340-1¼ 1323 (1400-1¼)		1340-3 1323 (1400-3)	
CIRCLING	1340-1¼ 1304 (1400-1¼)	1340-1½ 1304 (1400-1½)	1340-3 1304 (1400-3)	



NAPA, CALIFORNIA
Amdt 4 14MAY26

38°13′N-122°17′W

NAPA COUNTY (APC)

RNAV (GPS) Y RWY 1L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	5930
CH 40313	006°	TDZE	17
W01B		Apt Elev	36

RNAV (GPS) Z RWY 1L
NAPA COUNTY (APC)

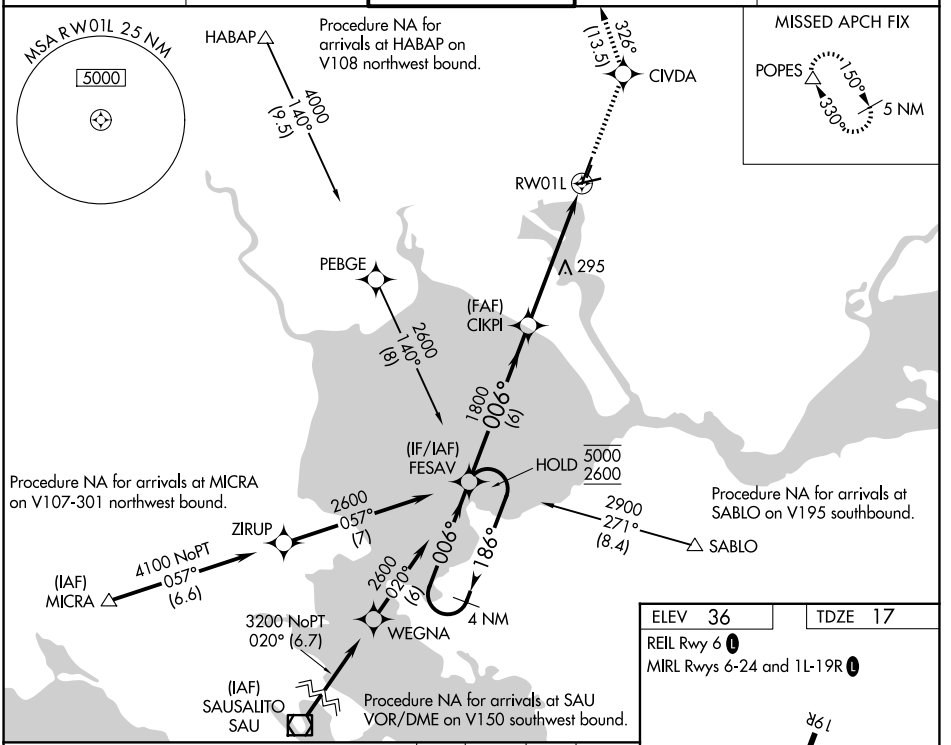
RNP APCH - GPS.

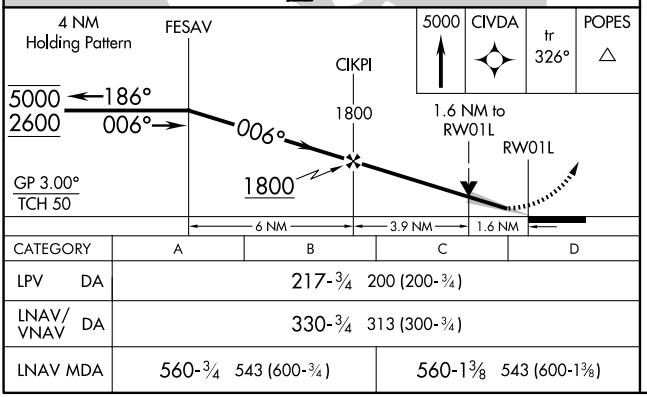
T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C. Inop table does not apply to LPV minimums. For inop ALS, increase LNAV/VNAV all Cats visibility to ⅞ SM.

MALS

MISSED APPROACH: Climb to 5000 direct CIVDA and on track 326° to POPES and hold. Missed approach requires minimum climb of 420 feet per NM to 2200; if unable to meet climb gradient, see RNAV (GPS) Y RWY 1L.

ATIS	OAKLAND CENTER	NAPA TOWER*	GND CON	UNICOM
124.05	127.8 353.5	118.7 (CTAF) 257.8	121.7	122.95

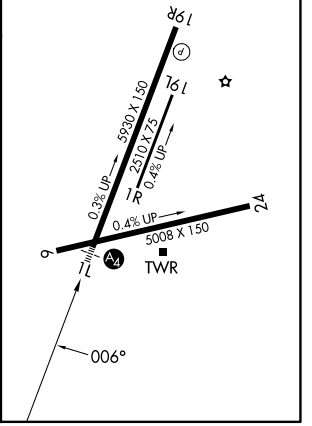




CATEGORY	A	B	C	D
LPV DA	217-¾ 200 (200-¾)			
LNAV/VNAV DA	330-¾ 313 (300-¾)			
LNAV MDA	560-¾ 543 (600-¾)		560-1⅜ 543 (600-1⅜)	

ELEV 36	TDZE 17

REIL Rwy 6 L
MIRL Rwys 6-24 and 1L-19R L



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

NAPA, CALIFORNIA | AL-281 (FAA) | 25331

VOR RWY 6

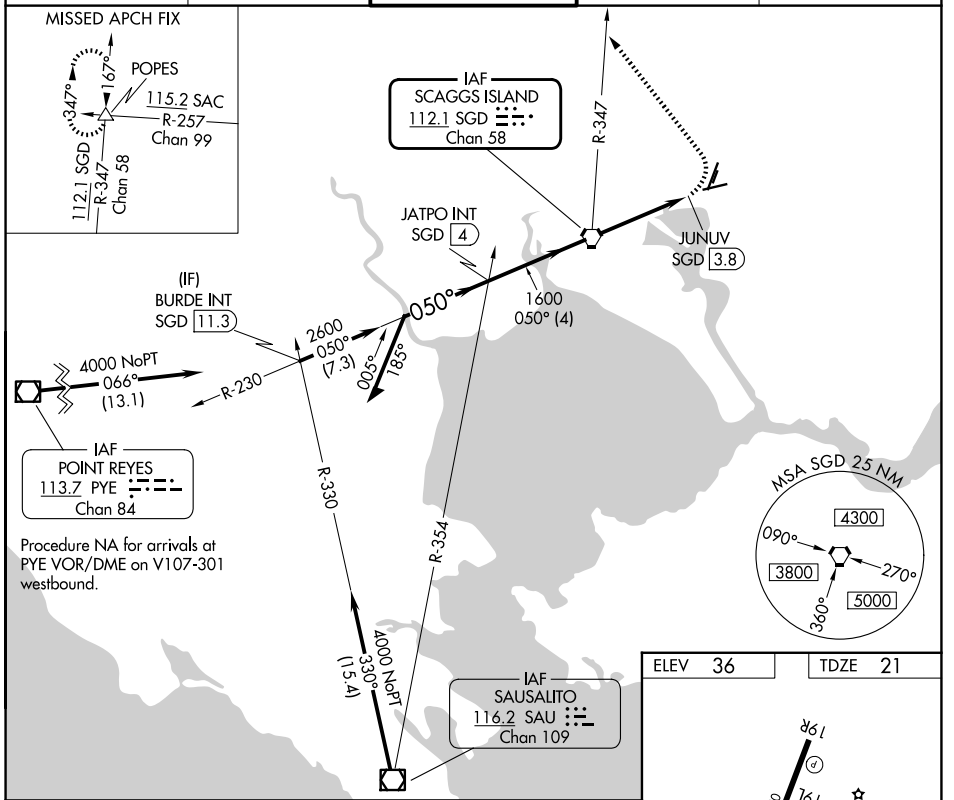
NAPA COUNTY (APC)

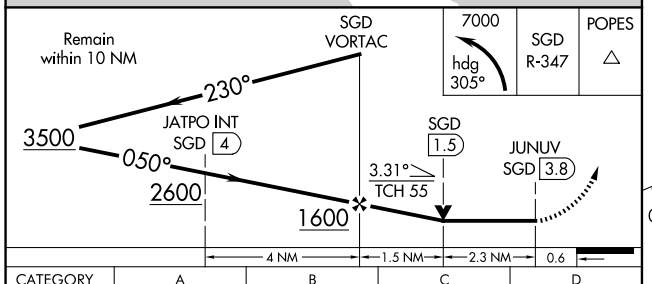
VORTAC SGD 112.1 Chan 58	APP CRS 050°	Rwy Ldg 5008 TDZE 21 Apt Elev 36

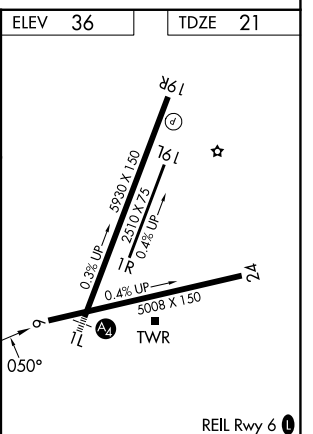
Rwy 6 helicopter visibility reduction below ¾ SM NA. Circling Cats A/B/C NA east of Rwy 19R and northwest of Rwy 24. Circling Cat D NA east of Rwy 19L-1R.

MISSED APPROACH: Climbing left turn to 7000 on heading 305° and SGD VORTAC R-347 to POPES INT and hold, continue climb-in-hold to 7000.

ATIS	OAKLAND CENTER	NAPA TOWER★	GND CON	UNICOM
124.05	127.8 353.5	118.7 (L) (CTAF) 257.8	121.7	122.95







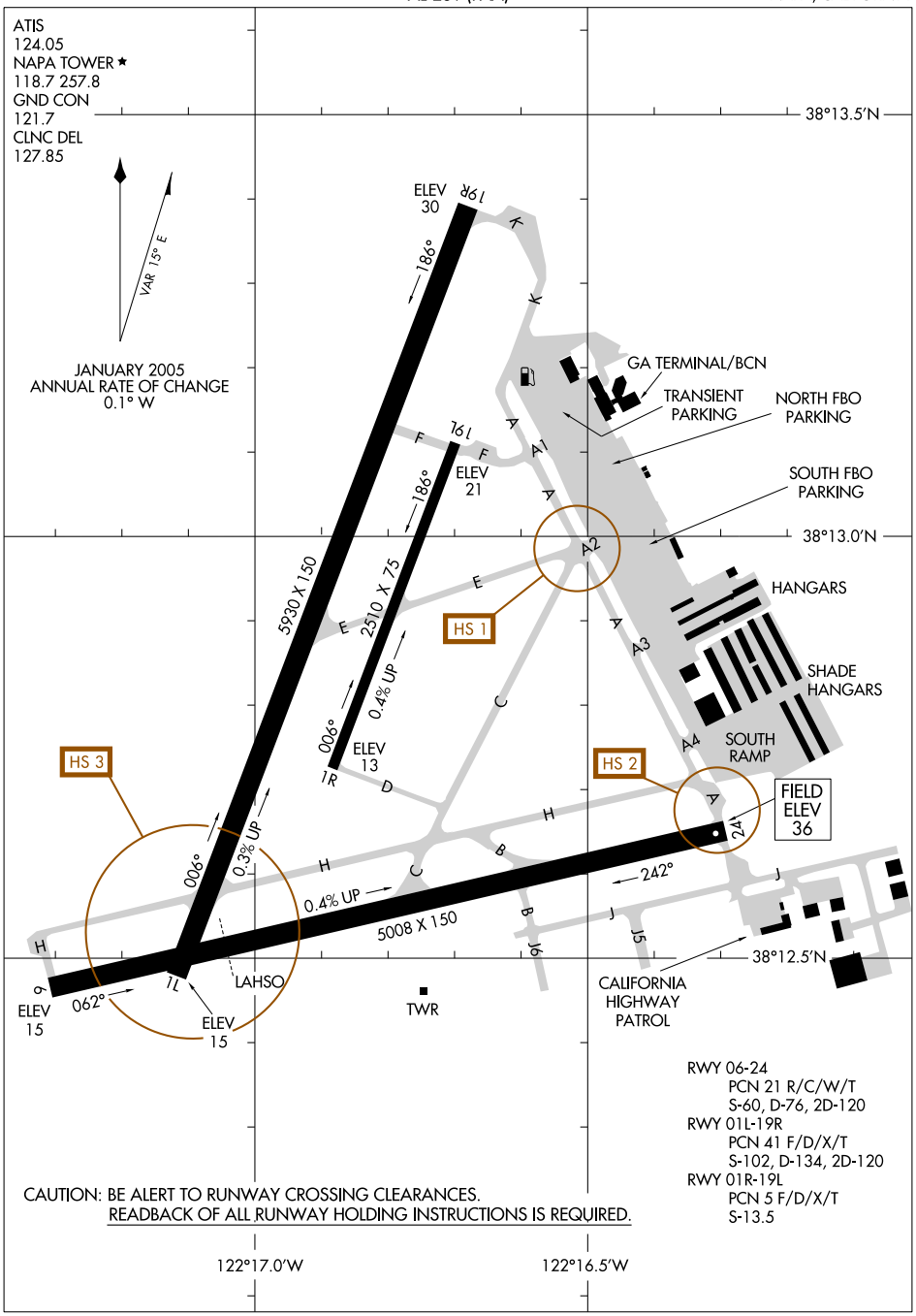
CATEGORY	A	B	C	D
S-6	1080-1¼ 1059 (1100-1¼)	1080-1½ 1059 (1100-1½)	1080-3	1059 (1100-3)
CIRCLING	1080-1¼ 1044 (1100-1¼)	1080-1½ 1044 (1100-1½)	1280-3 1244 (1300-3)	1300-3 1264 (1300-3)

REIL Rwy 6 (L)
MIRL Rwys 6-24 and 1L-19R (L)

FAF to MAP 3.8 NM

Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(NAPAA4.NAPAA) 23334

NAPAA FOUR DEPARTURE (OBSTACLE)

AL-281 (FAA)

NAPA COUNTY (APC)
NAPA, CALIFORNIA

OAKLAND CENTER
127.8 353.5
ATIS
124.05
GND CON
121.7
CLNC DEL
127.85
NAPA TOWER★
118.7 (CTAF) 257.8

TAKEOFF MINIMUMS

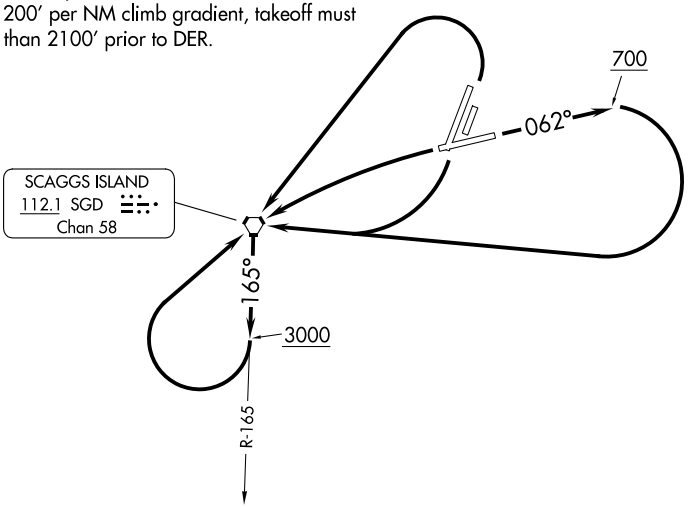
Rwys 19L/R: Standard.

Rwy 1L: Standard with minimum climb of 310′ per NM to 900 or 2400-3 for VCOA.

Rwy 1R: Standard with minimum climb of 360′ per NM to 700 or 2400-3 for VCOA.

Rwy 6: Standard with minimum climb of 440′ per NM to 1700 or 2400-3 for VCOA.

Rwy 24: 300-1⅛ or standard with minimum climb of 255′ per NM to 300, or alternatively, with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later than 2100′ prior to DER.



(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6: Climb on heading 062° to 700, then turn right direct SGD VORTAC, thence. . . .

TAKEOFF RUNWAYS 1L/R, 24: Turn left direct SGD VORTAC, thence. . . .

TAKEOFF RUNWAYS 19L/R: Turn right direct SGD VORTAC, thence. . . .

VCOA RUNWAYS 1L/R, 6: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Napa County Airport at or above 2300, then direct SGD VORTAC, thence. . . .

. . . .aircraft departing SGD VORTAC on R-165 climb on course. All other aircraft continue climb on SGD VORTAC R-165 to 3000, then turn right direct SGD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES

Rwy 1L: Terrain beginning 7′ from DER, 340′ left of centerline up to 37′ MSL.
Lighting 10′ from DER, 51′ right of centerline, 1′ AGL/30′ MSL.
Vehicles on road beginning 105′ from DER, 317′ right of centerline, up to 41′ MSL.
Vehicles on road and terrain, beginning 105′ from DER, 298′ left of centerline, up to 43′ MSL.
Vehicles on road 203′ from DER, 300′ left of centerline, 44′ MSL.
Vehicles on road beginning 363′ from DER, 302′ left of centerline, up to 45′ MSL.
Vehicles on road 559′ from DER, 544′ right of centerline, 44′ MSL.
Trees beginning 3205′ from DER, 790′ right of centerline, up to 124′ MSL.
Trees beginning 4610′ from DER, 306′ right of centerline, up to 168′ MSL.
Tree 1.1 NM from DER, 2025′ right of centerline, 226′ MSL.
Trees beginning 1.1 NM from DER, 1674′ right of centerline, up to 249′ MSL.
Tree 1.1 NM from DER, 1839′ right of centerline, 253′ MSL.
Trees and terrain beginning 1.1 NM from DER, 1648′ right of centerline, up to 282′ MSL.
Trees, terrain and fence beginning 1.1 NM from DER, 1634′ right of centerline, up to 298′ MSL.
Tree and fence beginning 1.7 NM from DER, 3269′ right of centerline, up to 345′ MSL.
Electrical system, terrrain, fence and tree beginning 1.8 NM from DER, 606′ right of centerline, up to 129′ AGL/446′ MSL.
Trees and terrain beginning 2 NM from DER, 542′ right of centerline, up to 526′ MSL.
Terrrain, fence and tree beginning 2 NM from DER, 1089′ right of centerline, up to 528′ MSL
Fence, trees, terrrain and building beginning 2.1 NM from DER, 2007′ right of centerline, up to 5′ AGL/554′ MSL.
Terrrain and trees beginning 2.1 NM from DER, 2139′ right of centerline, up to 581′ MSL
Tree 2.2 NM from DER, 3913′ right of centerline, 585′ MSL.
Trees, terrrain and fence, beginning 2.2 NM from DER, 2013′ right of centerline, up to 587′ MSL.
Trees and terrain beginning 2.3 NM from DER, 2566′ right of centerline, up to 599′ MSL.

Rwy 1R: Lighting 43′ from DER, 493′ right of centerline, 1′ AGL/25′ MSL.
Sign 51′ from DER, 420′ left of centerline, 2′ AGL/23′ MSL.
Poles and vehicles on road beginning 262′ from DER, 63′ right of centerline, up to 36′ AGL/59′ MSL.
Vehicles on road 639′ from DER, 436′ left of centerline, 38′ MSL.
Vehicles on road beginning 640′ from DER, 95′ left of centerline, up to 39′ MSL.
Tree 812′ from DER, 673′ right of centerline, 70′ MSL.
Tree 1870′ from DER, 470′ right of centerline, 71′ MSL.
Tree 1.2 NM from DER, 2507′ right of centerline, 240′ MSL.
Tree 1.2 NM from DER, 2314′ right of centerline, 243′ MSL.
Trees beginning 1.2 NM from DER, 2143′ right of centerline, up to 286′ MSL.
Trees, fence and terrain beginning 1.3 NM from DER, 2073′ right of centerline, up to 309′ MSL.
Tree 1.3 NM from DER, 2552′ right of centerline, 322′ MSL.
Trees and terrain beginning 1.3 NM from DER, 1204′ right of centerline, up to 368′ MSL.
Trees, terrain and fence beginning 1.4 NM from DER, 1286′ right of centerline, up to 391′ MSL.
Trees beginning 1.4 NM from DER, 1312′ right of centerline, up to 400′ MSL.
Trees, terrrain, building and fence beginning 1.4 NM from DER, 2008′ right of centerline, up to 417′ MSL.
Electrical system, fence and terrrain beginning 2.1 NM from DER, 2329′ right of centerline, up to 129′ AGL/446′ MSL.
Transmission line 2.2 NM from DER, 3214′ right of centerline, 123′ AGL/542′ MSL.
Electrical system, fence, pole, terrrain and trees beginning 2.2 NM from DER, 1515′ right of centerline, up to 116′ AGL/544′ MSL.
Terrrain and fence beginning 2.3 NM from DER, 2076′ right of centerline, up to 551′ MSL.
Trees, fence, terrrain and building beginning 2.3 NM from DER, 1494′ right of centerline, up to 561′ MSL.
Terrrain and tree beginning 2.4 NM from DER, 1626′ right of centerline, up to 581′ MSL.
Terrrain and tree beginning 2.4 NM from DER, 2067′ right of centerline, up to 612′ MSL.
Terrain and trees beginning 2.4 NM from DER, 2564′ right of centerline, up to 643′ MSL.
Tree 2.4 NM from DER, 3917′ right of centerline, 671′ MSL.
Trees beginning 2.5 NM from DER, 1954′ right of centerline, up to 687′ MSL.

(CONTINUED ON FOLLOWING PAGE)

SW-2, 09 JUL 2026 to 03 SEP 2026

(CONTINUED)

TAKEOFF OBSTACLE NOTES

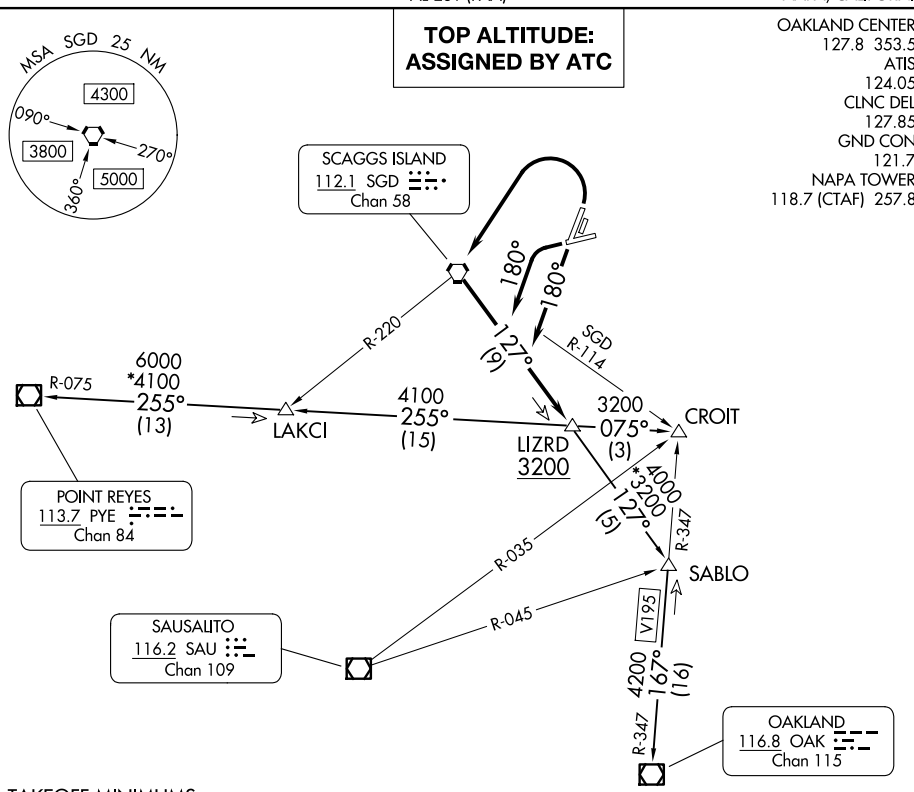
Rwy 6: Pole 1′ from DER, 59′ left of centerline, 3′ AGL/37′ MSL.
Pole 2′ from DER, 60′ right of centerline, 2′ AGL/36′ MSL.
Pole 98′ from DER, 480′ left of centerline, 34′ AGL/67′ MSL.
Pole 333′ from DER, 476′ left of centerline, 34′ AGL/68′ MSL.
Pole and vehicles on road beginning 573′ from DER, 0′ left of centerline, up to 33′ AGL/69′ MSL.
Building 773′ from DER, 660′ right of centerline, 29′ AGL/70′ MSL.
Buildings and pole beginning 1104′ from DER, 472′ right of centerline, up to 37′ AGL/80′ MSL.
Trees beginning 1288′ from DER, 516′ left of centerline, up to 98′ MSL.
Trees beginning 2082′ from DER, 98′ right of centerline, up to 113′ MSL.
Trees beginning 2306′ from DER, 53′ right of centerline, up to 130′ MSL.
Tree 4681′ from DER, 1103′ left of centerline, 180′ MSL.
Trees beginning 4859′ from DER, 1063′ left of centerline, up to 187′ MSL.
Terrain 5855′ from DER, 2050′ right of centerline, 195′ MSL.
Trees and fence beginning 5865′ from DER, 1761′ left of centerline, up to 211′ MSL.
Trees, terrrain and fence beginning 6068′ from DER, 1419′ right of centerline, up to 281′ MSL.
Tree 1 NM from DER, 2035′ left of centerline, 212′ MSL.
Trees beginning 1 NM from DER, 1796′ left of centerline, up to 224′ MSL.
Tree 2 NM from DER, 2933′ left of centerline, 340′ MSL.
Tree 2 NM from DER, 2803′ left of centerline, 359′ MSL.
Trees beginning 2.1 NM from DER, 3827′ right of centerline, up to 386′ MSL.
Terrain 2.2 NM from DER, 3202′ right of centerline, up to 405′ MSL.
Terrain beginning 2.3 NM from DER, 911′ right of centerline, up to 464′ MSL.
Fence and terrrain beginning 2.4 NM′ from DER, 3273′ left of centerline, up to 4′ AGL/452′ MSL.
Terrain 2.4 NM from DER, 3353′ left of centerline, 457′ MSL.
Terrain and trees beginning 2.4 NM from DER, 61′ left of centerline, up to 525′ MSL.
Fence beginning 2.5 NM from DER, 100′ right of centerline, up to 6′ AGL/519′ MSL.

Rwy 19L: Sign and terrain beginning 14′ from DER, 125′ left of centerline, up to 2′ AGL/14′ MSL.
Lighting 15′ from DER, 429′ right of centerline, 1′ AGL/14′ MSL.
Terrain 49′ from DER, 483′ left of centerline, 17′ MSL.
Navaid 1278′ from DER, 816′ left of centerline, 35′ AGL/52′ MSL.
Tree 3852′ from DER, 1304′ left of centerline, 111′ MSL.

Rwy 19R: Lighting 9′ from DER, 4′ left of centerline, 1′ AGL/15′ MSL.
Pole 10′ from DER, 44′ right of centerline, 1′ AGL/15′ MSL.
Lighting 10′ from DER, 96′ left of centerline, 3′ AGL/17′ MSL.
Vehicles on road beginning 350′ from DER, 584′ left of centerline, up to 34′ MSL.
Tree 3158′ from DER, 764′ left of centerline, 101′ MSL.
Tree 3503′ from DER, 1006′ left of centerline, 104′ MSL..

Rwy 24: Vehicles on road and general utility beginning 56′ from DER, 125′ right of centerline, up to 21′ MSL.
General utility 59′ from DER, 122′ left of centerline, 4′ AGL/17′ MSL.
Vehicles on road beginning 60′ from DER, 18′ left of centerline, up to 25′ MSL.
Vehicles on road beginning 167′ from DER, 9′ right of centerline, up to 22′ MSL.
Vehicles on road beginning 354′ from DER, 259′ right of centerline, up to 26′ MSL.
Trees beginning 1455′ from DER, 776′ left of centerline, up to 76′ MSL.
Trees beginning 2324′ from DER, 540′ left of centerline, up to 90′ MSL.
Tree 2650′ from DER, 527′ left of centerline, 93′ MSL.
Tree 4552′ from DER, 554′ left of centerline, 135′ MSL.
Vehicles on road and bridge beginning 4943′ from DER, 1631′ right of centerline, up to 165′ AGL/170′ MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026



TAKEOFF MINIMUMS
Rwy 6: NA-Obstacles.
Rwy 19L/R: Standard
Rwy 1L/R: Standard with minimum climb of 370'/NM to 1200.
Rwy 24: Standard with minimum climb of 255'/NM to 3000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1L/R: Climbing left turn direct SGD VORTAC, proceed outbound on the SGD R-127 to LIZRD INT. Cross LIZRD INT at or above 3200. Thence. . . .
TAKEOFF RUNWAY 19L/R: Climb on heading 180° to intercept and proceed outbound on the SGD R-127 to LIZRD INT. Cross LIZRD INT at or above 3200. Thence. . . .
TAKEOFF RUNWAY 24: Climbing left turn on heading 180° to intercept and proceed outbound on the SGD R-127 to LIZRD INT. Cross LIZRD INT at or above 3200. Thence. . . .

. . . . on transition or assigned route. Maintain ATC assigned altitude.

CROIT TRANSITION (LIZRD6.CROIT): From over LIZRD on PYE R-075 to CROIT.
OAKLAND TRANSITION (LIZRD6.OAK): From over LIZRD on SGD R-127 and OAK R-347 to OAK VOR/DME.
POINT REYES TRANSITION (LIZRD6.PYE): From over LIZRD on PYE R-075 to PYE VOR/DME.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(MER4.SGD) 26134

MERLOT FOUR DEPARTURE

AL-281 (FAA)

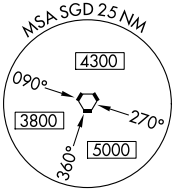
NAPA COUNTY(APC)
NAPA, CALIFORNIA

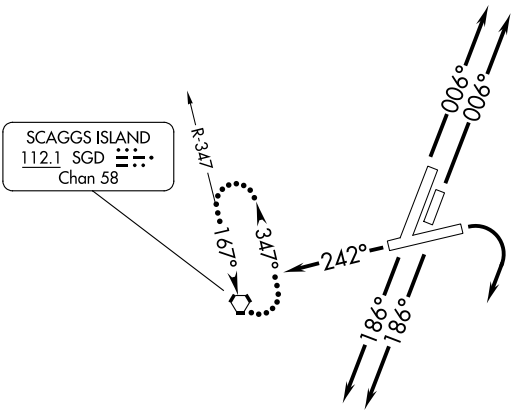
OAKLAND CENTER
127.8 353.5
ATIS
124.05
CLNC DEL
127.85
GND CON
121.7
NAPA TOWER★
118.7 (CTAF) 257.8

RADAR required.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINUMUMS
Rwy 1L: Standard with mimimum climb of 420'/NM to 2900.
Rwy 1R: Standard with mimimum climb of 460'/NM to 3000.
Rwy 6: Standard with minimum climb of 430'/NM to 1600.
Rwy 19L: Standard with mimimum climb of 320'/NM to 1500.
Rwy 19R: Standard with mimimum climb of 330'/NM to 1600.
Rwy 24: Standard with mimimum climb of 255'/NM to 1300.





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb heading 006° (or climbing left turn on ATC assigned heading 186° CW 006°); thence. . . .

TAKEOFF RUNWAY 6: Climbing right turn on assigned heading between 130° CW 242°; thence. . . .

TAKEOFF RUNWAYS 19L/R: Climb heading 186° (or ATC assigned heading 130° CW 270°); thence. . . .

TAKEOFF RUNWAY 24: Climb heading 242° (or ATC assigned heading 130° CW 270°); thence. . . .

. . . . expect vectors to join assigned route. Maintain ATC assigned altitude; expect filed altitude/flight level ten minutes after departure.

LOST COMMUNICATIONS

If not in contact with Oakland Center after reaching 4000, proceed to the SGD VORTAC and hold.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

OZIEE FOUR DEPARTURE (RNAV)

(OZIEE4.OZIEE) 10OCT19

NAPA COUNTY (APC)

NAPA, CALIFORNIA

(OZIEE4.OZIEE) 19283

OZIEE FOUR DEPARTURE (RNAV)

AL-281 (FAA)

NAPA COUNTY (APC)

NAPA, CALIFORNIA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS 124.05
GND CON 121.7
OAKLAND CENTER 127.8 353.5

RED BLUFF RBL

MUSTANG FMG

INSLO

JSICA

WAVED

OZIEE 6000

SACRAMENTO SAC 10000

COALDALE OAL

FIRTO 2700

KLARK

12000 349° (97)

16000 048° (136)

FL210 071° (234)

FL270 074° (235)

048° (6)

084° (35)

FL180 082° (181)

350° (11)

342° (6)

291° 290°

090° 090°

265° 242°

272° 269°

186° 186°

N

TAKEOFF MINIMUMS
Rwy 6: NA- obstacles.
Rwy 1L: Standard with minimum climb of 445′ per NM to 6000.
Rwy 1R: Standard with minimum climb of 460′ per NM to 6000.
Rwys 19L/R: Standard with minimum climb of 260′ per NM to 6000.
Rwy 24: Standard with minimum climb of 400′ per NM to 6000.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: For non-GPS equipped aircraft, PYE, MOD, FMG, MVA, HZN, and OAL DMEs must be operational for JSICA transition.

NOTE: For non-GPS equipped aircraft, PYE, MVA, and HZN DMEs must be operational for INSLO transition.

NOTE: For non-GPS equipped aircraft, PYE and SWR DMEs must be operational for MUSTANG transition.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

(OZIEE4.OZIEE) 19283

OZIEE FOUR DEPARTURE (RNAV)

AL-281 (FAA)

NAPA COUNTY (APC)
NAPA, CALIFORNIA

SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1L: Climb on heading 006° to intercept course 290° to FIRTO at or above 2700, then on track 350° to OZIEE at or above 6000, thence. . . .

TAKEOFF RUNWAY 1R: Climb on heading 006° to intercept course 291° to FIRTO at or above 2700, then on track 350° to OZIEE at or above 6000, thence. . . .

TAKEOFF RUNWAY 19L: Climb on heading 186° to intercept course 269° to KLARK, then on track 342° to FIRTO at or above 2700, then on track 350° to OZIEE at or above 6000, thence. . . .

TAKEOFF RUNWAY 19R: Climb on heading 186° to intercept course 272° to KLARK, then on track 342° to FIRTO at or above 2700, then on track 350° to OZIEE at or above 6000, thence. . . .

TAKEOFF RUNWAY 24: Climb on heading 242° to intercept course 265° to KLARK, then on track 342° to FIRTO at or above 2700, then on track 350° to OZIEE at or above 6000, thence. . . .

. . . .on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

COALDALE TRANSITION (OZIEE4.OAL)

INSLO TRANSITION (OZIEE4.INSLO)

JSICA TRANSITION (OZIEE4.JSICA)

MUSTANG TRANSITION (OZIEE4.FMG)

RED BLUFF TRANSITION (OZIEE4.RBL)

RNAV (GPS) RWY 13

GNOSS FLD (DVO)

WAAS	APP CRS	Rwy Ldg	3303
CH 63244	140°	TDZE	4
W13A		Apt Elev	4

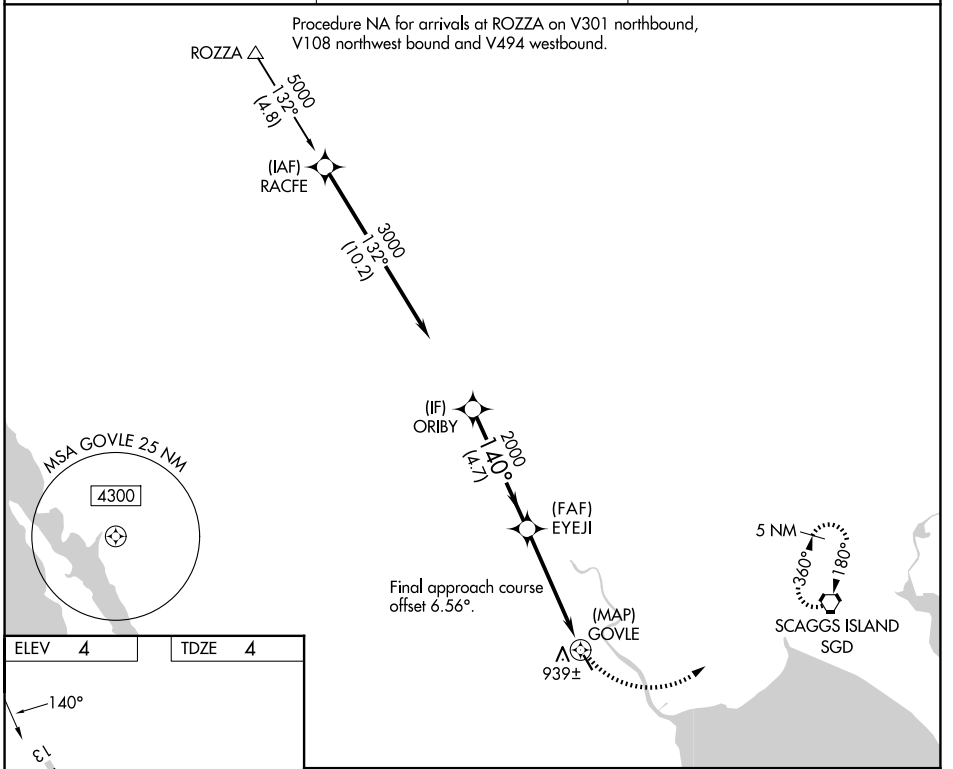
RNP APCH - GPS.

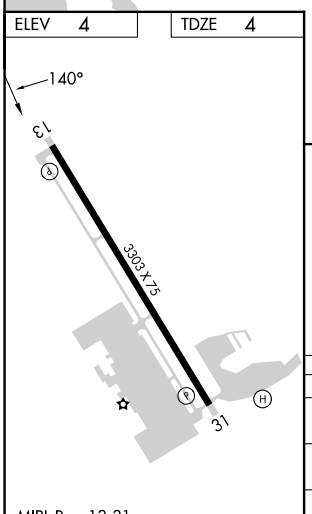
Circling NA southwest of Rwy 13-31. Circling Rwy 31 NA at night. Rwy 13 helicopter visibility reduction below ¾ SM NA.

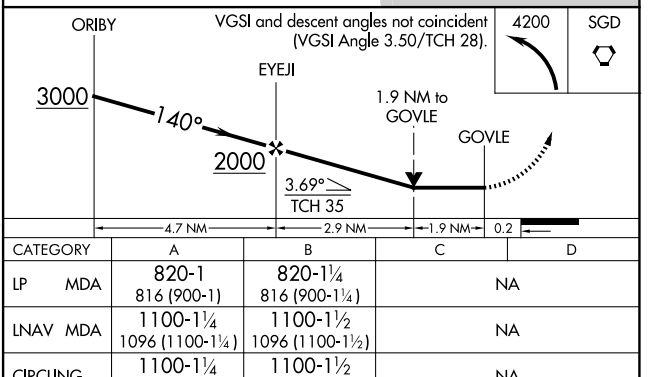
MISSED APPROACH: Climbing left turn to 4200 direct SGD VORTAC and hold, continue climb-in-hold to 4200.

AWOS-3P	OAKLAND CENTER	UNICOM
120.675	127.8 353.5	123.075 (CTAF)

Procedure NA for arrivals at ROZZA on V301 northbound, V108 northwest bound and V494 westbound.







CATEGORY	A	B	C	D
LP MDA	820-1 816 (900-1)	820-1¼ 816 (900-1¼)	NA	
LNAV MDA	1100-1¼ 1096 (1100-1¼)	1100-1½ 1096 (1100-1½)	NA	
CIRCLING	1100-1¼ 1096 (1100-1¼)	1100-1½ 1096 (1100-1½)	NA	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

OAKDALE, CALIFORNIA AL-6135 (FAA) 26134

WAAS	APP CRS	Rwy Ldg	3013
CH 42524	096°	TDZE	236
W10A		Apt Elev	237

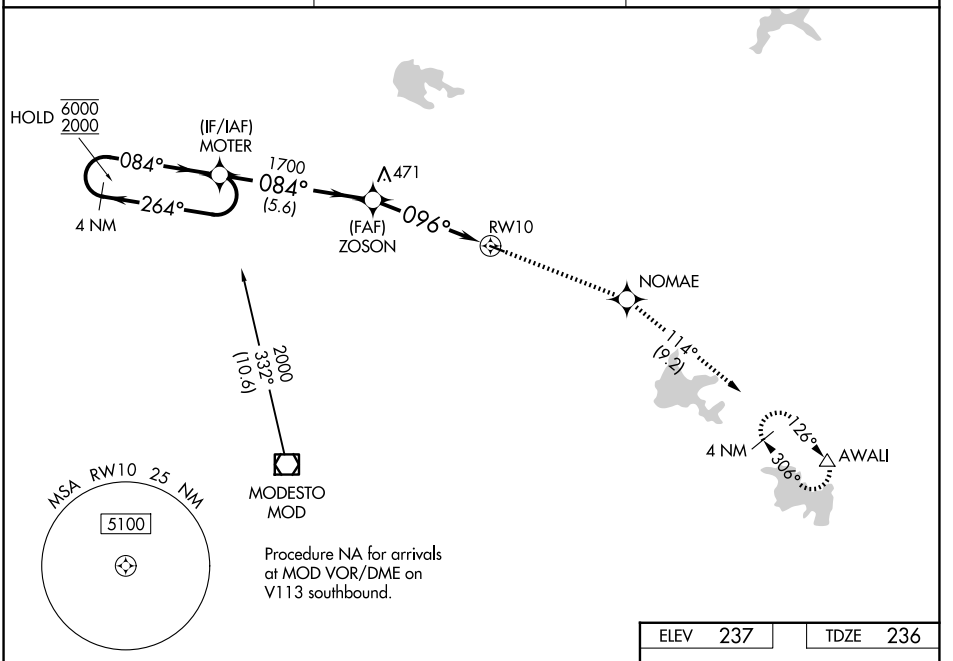
RNAV (GPS) RWY 10
OAKDALE (O27)

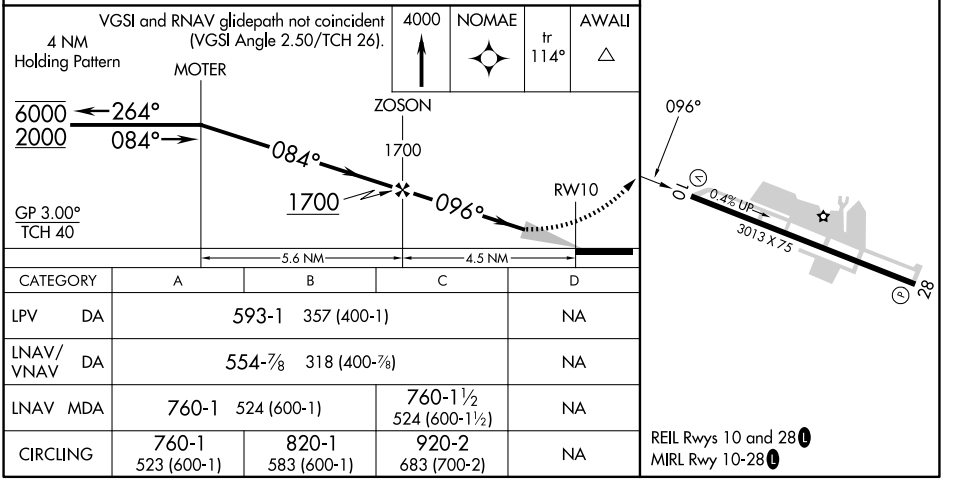
RNP APCH-GPS.

T A NA Baro-VNAV NA. Use Modesto altimeter setting; when not received, use Stockton Metro altimeter setting: increase LPV DA to 627 feet and all visibilities ⅛ SM; increase LNAV/VNAV DA to 588 feet and all visibilities ⅛ SM; increase all MDAs 40 feet and LNAV Cat C visibility ⅛ SM.

MISSED APPROACH: Climb to 4000 direct NOMAE and on track 114° to AWALI and hold, continue climb-in-hold to 4000.

MOD ASOS	NORCAL APP CON	UNICOM
127.7	125.1 363.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	593-1 357 (400-1)			NA
LNAV/VNAV DA	554-⅞ 318 (400-⅞)			NA
LNAV MDA	760-1 524 (600-1)		760-1½ 524 (600-1½)	NA
CIRCLING	760-1 523 (600-1)	820-1 583 (600-1)	920-2 683 (700-2)	NA

REIL Rwys 10 and 28 L
MIRL Rwy 10-28 L

OAKDALE, CALIFORNIA
Amdt 2A 07OCT21

37°45′N-120°48′W

OAKDALE (O27)
RNAV (GPS) RWY 10

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 28

OAKDALE (O27)

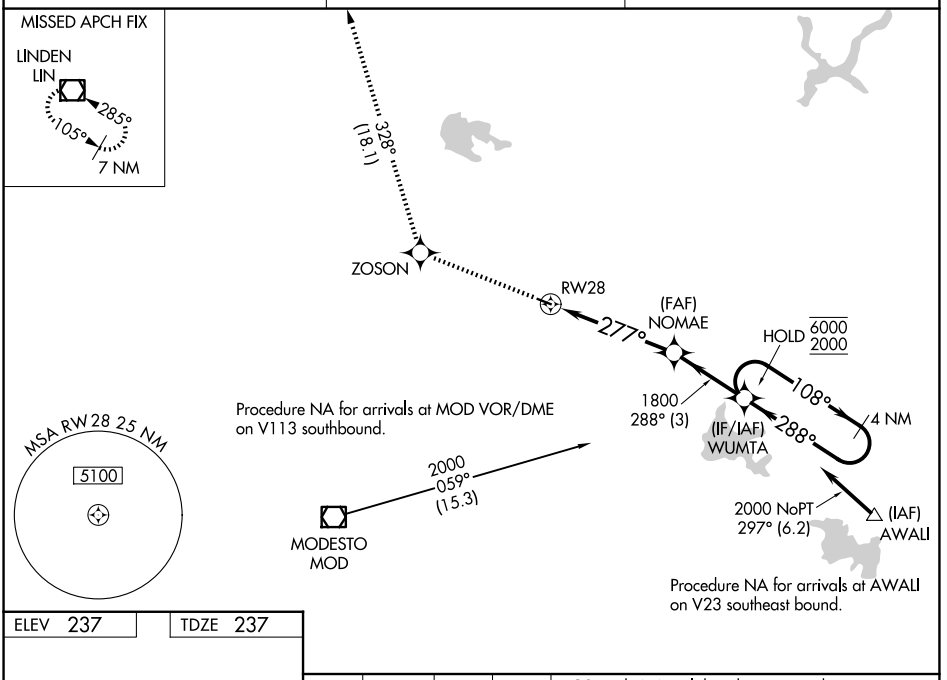
WAAS	APP CRS	Rwy Ldg	3013
CH 70523	277°	TDZE	237
W28A		Apt Elev	237

RNP APCH-GPS.

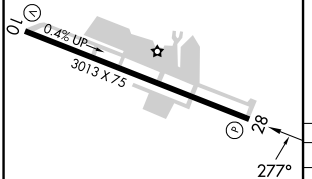
T NA Rwy 28 helicopter visibility reduction below ¾ SM NA. Baro-VNAV NA. Use Modesto altimeter setting; when not received, use Stockton altimeter setting: increase LPV DA to 581 feet and all visibilities ⅛ SM; increase LNAV/VNAV DA to 728 feet; increase all MDAs 40 feet.

MISSED APPROACH: Climb to 7000 direct ZOSON and on track 328° to LIN VOR/DME and hold, continue climb-in-hold to 7000.

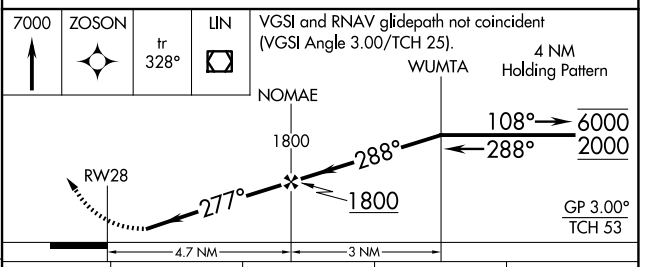
MOD ASOS	NORCAL APP CON	UNICOM
127.7	125.1 363.2	122.8 (CTAF) L



ELEV 237	TDZE 237



REIL Rwys 10 and 28
MIRL Rwy 10-28 L



CATEGORY	A	B	C	D
LPV DA	547-⅞ 310 (400-⅞)			NA
LNAV/VNAV DA	694-1⅜ 457 (500-1⅜)			NA
LNAV MDA	820-1 583 (600-1)		820-1¾ 583 (600-1¾)	NA
CIRCLING	820-1 583 (600-1)		920-2 683 (700-2)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

OAKLAND, CALIFORNIA AL-294 (FAA) 25275

ILS or LOC RWY 12

OAKLAND SAN FRANCISCO BAY (OAK)

LOC I-AAZ	APP CRS	Rwy Ldg	10000
111.9	116°	TDZE	9
		Apt Elev	9

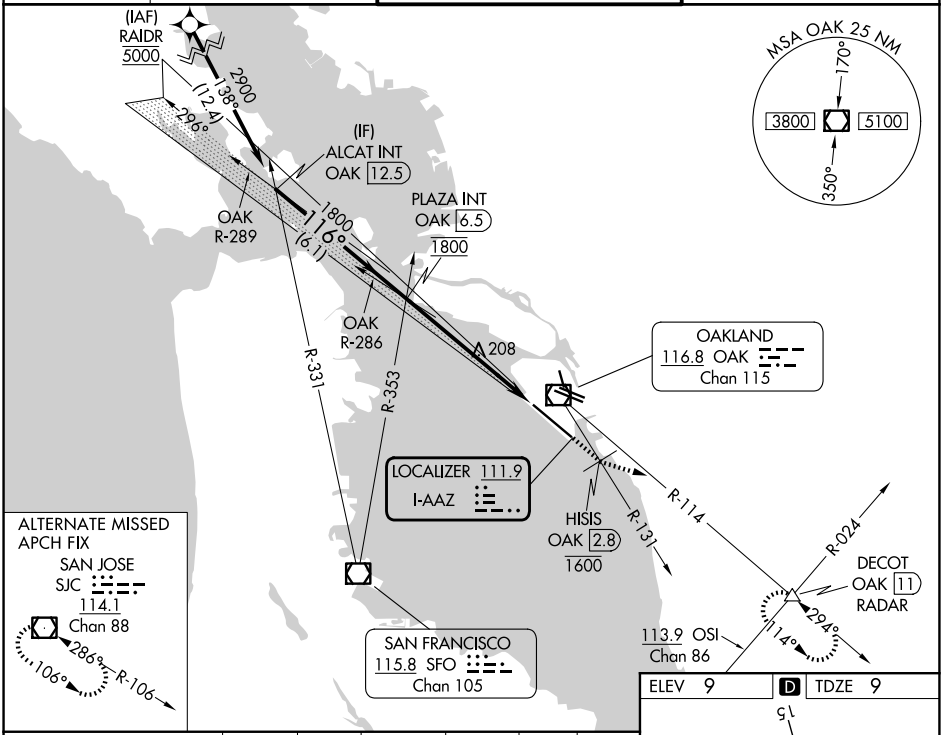
DME required. From RAIDR: RNAV 1-GPS required.

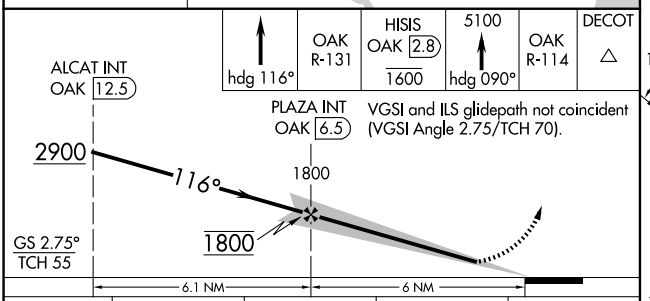
▼ ▲ *RVR 1800 authorized with the use of FD or AP or HUD to DA.

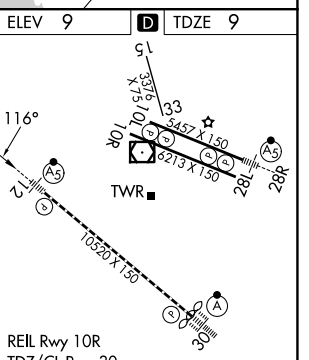
MALSR

MISSED APPROACH: Climb on heading 116° and on OAK VOR/DME R-131 to cross HISIS/OAK 2.8 DME at or below 1600 then climb to 5100 on heading 090° and on OAK VOR/DME R-114 to DECOT INT/ OAK 11 DME/RADAR and hold, continue climb-in-hold to 5100.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)







CATEGORY	A	B	C	D
S-ILS 12*	209/24		200 (200-½)	
S-LOC 12	460/24 451 (500-½)		460/45 451 (500-⅞)	
CIRCLING	560-1 551 (600-1)		660-1¾ 651 (700-1¾)	1400-3 1391 (1400-3)

FAF to MAP 6 NM

Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

OAKLAND, CALIFORNIA
Amdt 8B 26MAR20

37°43'N-122°13'W

OAKLAND SAN FRANCISCO BAY (OAK)

ILS or LOC RWY 12

SW-2, 09 JUL 2026 to 03 SEP 2026

ILS or LOC RWY 28R

OAKLAND SAN FRANCISCO BAY (OAK)

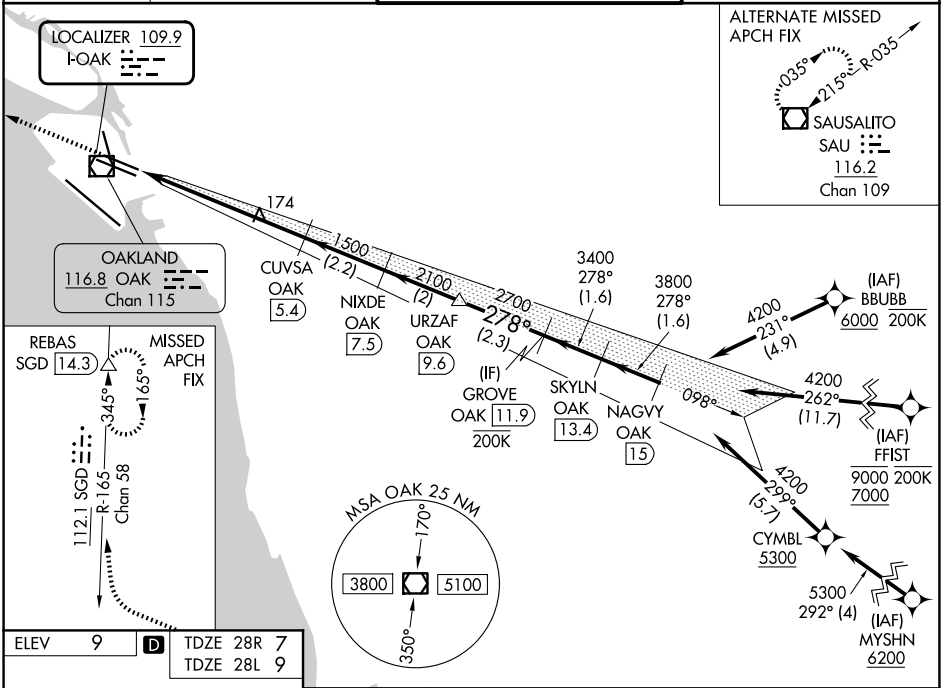
LOC I-OAK	APP CRS		28R	28L
109.9	278°	Rwy Ldg	5457	6213
		TDZE	7	9
		Apt Elev	9	9

RNP APCH - GPS. From BBUBB or FFIST or MYSHN.
DME required.
DME from OAK VOR/DME. Simultaneous reception of I-OAK and OAK DME required.
*RVR 1800 authorized with use of FD or AP or HUD to DA.

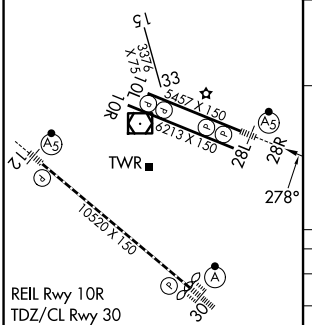
MALSR Rwy 28R

MISSED APPROACH: Climb to 1900 then climbing right turn to 3000 on heading 340° and SGD VORTAC R-165 to REBAS/SGD 14.3 DME and hold.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)



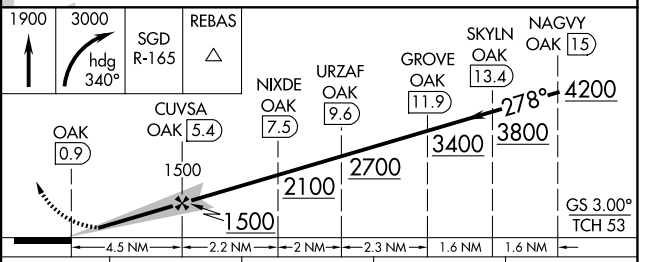
ELEV 9 D TDZE 28R 7
TDZE 28L 9



REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

FAF to MAP 4.5 NM

Knots	60	90	120	150	180
Min:Sec	4:30	3:00	2:15	1:48	1:30



CATEGORY	A	B	C	D
S-ILS 28R*	207/24 200 (200-½)			
S-LOC 28R	440/24 433 (500-½)		440/40 433 (500-¾)	
SIDESTEP 28L	440-1 431 (500-1)		440-1½ 431 (500-1½)	440-2 431 (500-2)
CIRCLING	560-1 551 (600-1)		660-1¾ 651 (700-1¾)	1400-3 1391 (1400-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS or LOC RWY 30

OAKLAND SAN FRANCISCO BAY (OAK)

LOC/DME I-INB	APP CRS	Rwy Ldg	10000
108.7	296°	TDZE	9
Chan 24		Apt Elev	9

RNP APCH - GPS. From FFIST or MYSHN.
DME or RADAR required.
For inop ALS, increase S-LOC-30 Cat C and D visibility to 1⅜ SM.

ALSF-2

MISSED APPROACH: Climb to 600 then climbing left turn to 4000 on heading 260° and on SAU VOR/DME R-110 to SAU VOR/DME and hold, continue climb-in-hold to 4000.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)

MISSED APCH FIX
035° 215° R-035
SAUSALITO
SAU
116.2
Chan 109

ALTERNATE MISSED APCH FIX
R-300 120° 300°
OAKLAND
OAK
116.8
Chan 115

OAKLAND
116.8 OAK
Chan 115

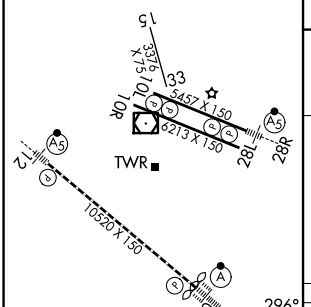
SAU R-110

LOCALIZER 108.7
I-INB
Chan 24

MSA OAK 25 NM
170° 3800 5100 350°

296°
2000
296° (2.2)
238
MITOE
I-INB 8.3
RADAR
(IF)
WUVON
I-INB 10.5
RADAR
200K
2700
264° (3)
ZOLUM
3500
254° (3.5)
4500
256°
(6.1)
PARBB
4500
PRFCT
6000
251°
(6.3)
(IAF)
FFIST
9000 200K
7000
2700
296°
(5.1)
FRNNY
4400
264°
(4.8)
116°
5000
264°
(6)
MYCAF
(IAF)
MYSHN
6200

ELEV 9 D TDZE 9



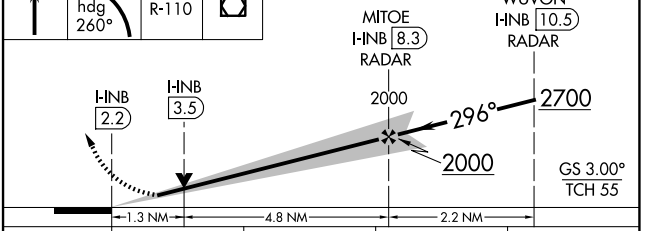
REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

600	4000 hdg 260°	SAU R-110	SAU

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
S-ILS 30	209/18 200 (200-½)			
S-LOC 30	500/24 491 (500-½)		500/50 491 (500-1)	
CIRCLING	560-1 551 (600-1)		660-1¾ 651 (700-1¾)	1400-3 1391 (1400-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC I-AAZ	APP CRS	Rwy Ldg	10000
111.9	116°	TDZE	9
		Apt Elev	9

ILS RWY 12 (SA CAT I)

OAKLAND SAN FRANCISCO BAY (OAK)

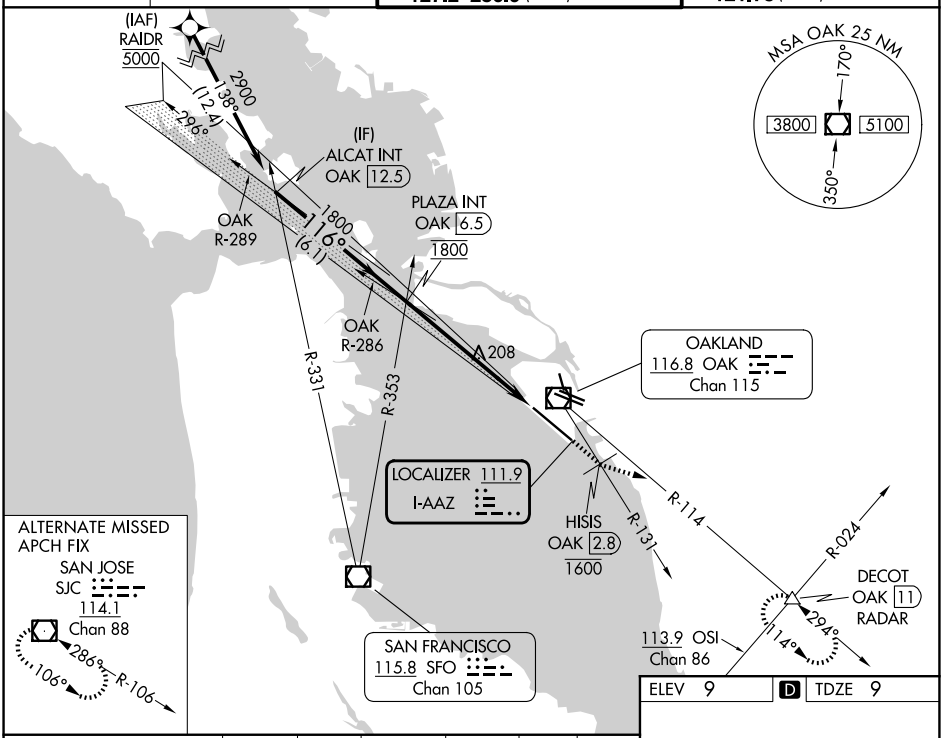
DME required. From RAIDR: RNAV 1-GPS required.

Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

MALSR

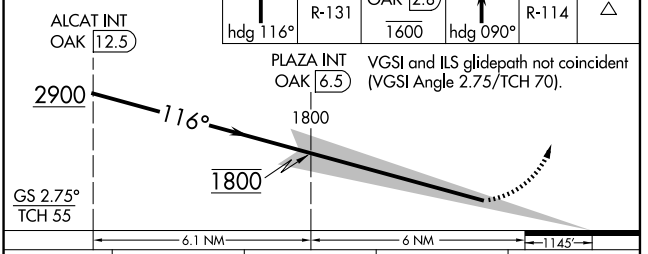
MISSED APPROACH: Climb on heading 116° and on OAK VOR/DME R-131 to cross HISIS/OAK 2.8 DME at or below 1600 then climb to 5100 on heading 090° and on OAK VOR/DME R-114 to DECOT INT/ OAK 11 DME/RADAR and hold, continue climb-in-hold to 5100.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)



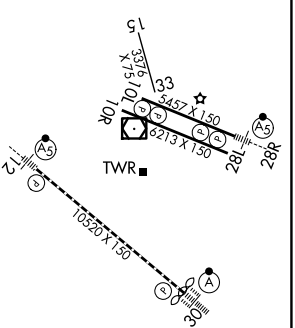
ELEV 9 D TDZE 9

hdg 116°	OAK R-131	HISIS OAK 2.8 1600	5100 hdg 090°	OAK R-114	DECOT △



CATEGORY	A	B	C	D
S-ILS 12	RA 153/14 150 DA 159			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-INB	APP CRS	Rwy Ldg	10000
108.7	296°	TDZE	9
Chan 24		Apt Elev	9

ILS RWY 30 (SA CAT I)

OAKLAND SAN FRANCISCO BAY (OAK)

RNP APCH - GPS. From FFIST or MYSHN.

DME or RADAR required.

Requires specific OPSPEC, MSPEC, or LOA approval. Missed approach requires minimum climb of 213 feet per NM to 1540, if unable to meet climb gradient, see ILS or LOC RWY 30.

ALSF-2

MISSED APPROACH: Climb to 600 then climbing left turn to 4000 on heading 260° and on SAU VOR/DME R-110 to SAU VOR/DME and hold, continue climb-in-hold to 4000.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)

MISSED APCH FIX

035° 215° R-035

SAUSALITO
SAU
116.2
Chan 109

ALTERNATE MISSED APCH FIX

R-300 120° 300°

OAKLAND
OAK
116.8
Chan 115

SAU R-110

OAKLAND
116.8 OAK
Chan 115

LOCALIZER 108.7
I-INB
Chan 24

MSA OAK 25 NM

170° 3800 5100 350°

296°

2000
296° (2.2)
238
MITOE
I-INB 8.3
RADAR

2700
264° (3)
ZOLUM

3500
254° (3.5)

4500
256°
(6.1)
PARBB
4500

6000
251°
(6.3)
PRFCT

(IAF)
FFIST
9000 200K
7000

(IF)
WUVON
I-INB 10.5
RADAR
200K

2700
296°
(5.1)

FRNNY

4400
264°
(4.8)

116°

MYCAF

5000
264°
(6)

(IAF)
MYSHN
6200

ELEV 9 D TDZE 9

15 33 28L 28R 10L 10R 12 30

3376 X 75

5457 X 150

6213 X 150

10520 X 150

TWR

REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

600 4000 hdg 260° SAU R-110 SAU

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 71).

MITOE
I-INB 8.3
RADAR

WUVON
I-INB 10.5
RADAR

2000 296° 2700

2000

GS 3.00°
TCH 55

1051' 6.1 NM 2.2 NM

CATEGORY	A	B	C	D
S-ILS 30	RA 150/14 150 DA 159			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ILS RWY 30 (CAT II & III)

OAKLAND SAN FRANCISCO BAY (OAK)

LOC/DME I-INB	APP CRS	Rwy Ldg	10000
108.7	296°	TDZE	9
Chan 24		Apt Elev	9

RNP APCH - GPS. From FFIST or MYSHN.

DME or RADAR required.

Missed approach requires minimum climb of 213 feet per NM to 1540, if unable to meet climb gradient, see ILS or LOC RWY 30. CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

MISSED APPROACH: Climb to 600 then climbing left turn to 4000 on heading 260° and on SAU VOR/DME R-110 to SAU VOR/DME and hold, continue climb-in-hold to 4000.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)

MISSED APCH FIX

035°–215°–R-035°

SAUSALITO SAU 116.2 Chan 109

ALTERNATE MISSED APCH FIX

R-300–120°–300°

OAKLAND OAK 116.8 Chan 115

SAU R-110

OAKLAND 116.8 OAK Chan 115

LOCALIZER 108.7 I-INB Chan 24

MSA OAK 25 NM

170° 3800 5100 350°

296°

2000 296° (2.2)

2700 264° (3)

3500 254° (3.5)

238

MITOE I-INB 8.3 RADAR

(IF)

ZOLUM

4500 256° (6.1)

PRFCT

6000 251° (6.3)

(IAF) FFIST 9000 200K 7000

WUVON I-INB 10.5 RADAR 200K

2700 296° (5.1)

PARBB 4500

4400 264° (4.8)

FRNNY

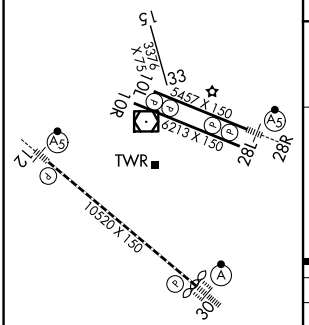
116°

5000 264° (6)

MYCAF

(IAF) MYSHN 6200

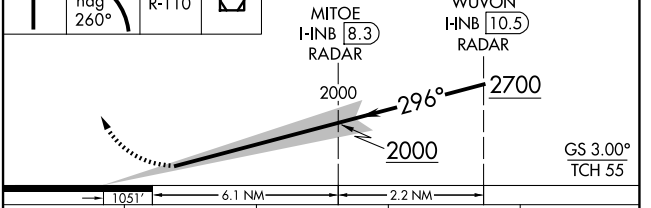
ELEV 9 D TDZ 9



REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

600 | 4000 hdg 260° | SAU R-110 | SAU

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
S-ILS 30	CAT II RA 100/12 100 DA 109			
S-ILS 30	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (RNP) Z RWY 12

OAKLAND SAN FRANCISCO BAY (OAK)

APP CRS	Rwy Ldg	10000
116°	TDZE	9
	Apt Elev	9

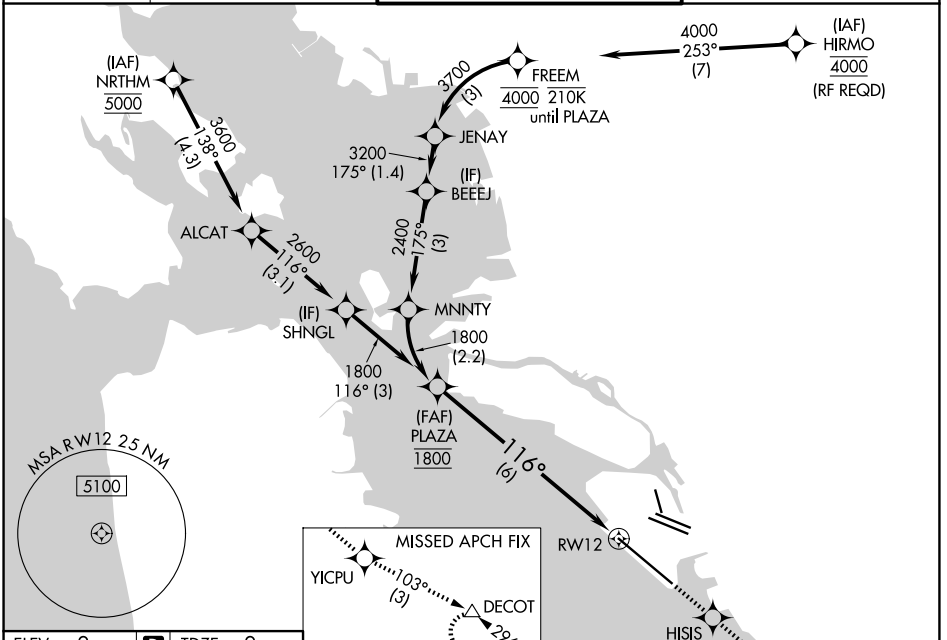
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below 0°C or above 54°C. For inop ALS increase RNP 0.15 visibility all Cats to RVR 4500, RNP 0.30 visibility all Cats to RVR 5500.

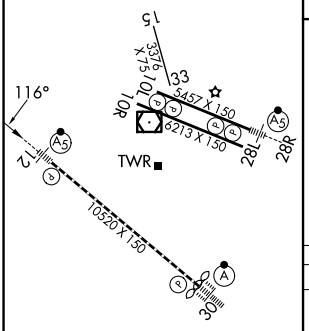
MALSR

MISSED APPROACH: Climb direct HISIS to cross HISIS at or below 1600 then climb to 5400 on track 116° to YICPU and on track 103° to DECOT and hold, continue climb-in-hold to 5400.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)

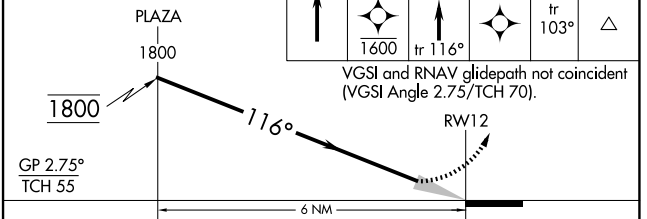


ELEV 9	D	TDZE 9



REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

See planview for multiple IF locations.



VGSI and RNAV glidepath not coincident (VGSI Angle 2.75/TCH 70).

CATEGORY	A	B	C	D
RNP 0.15 DA	289/24 280 (300-½)			
RNP 0.30 DA	386/35 377 (400-⅝)			

AUTHORIZATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	6213
278°	TDZE	9
	Apt Elev	9

RNAV (RNP) Z RWY 28L

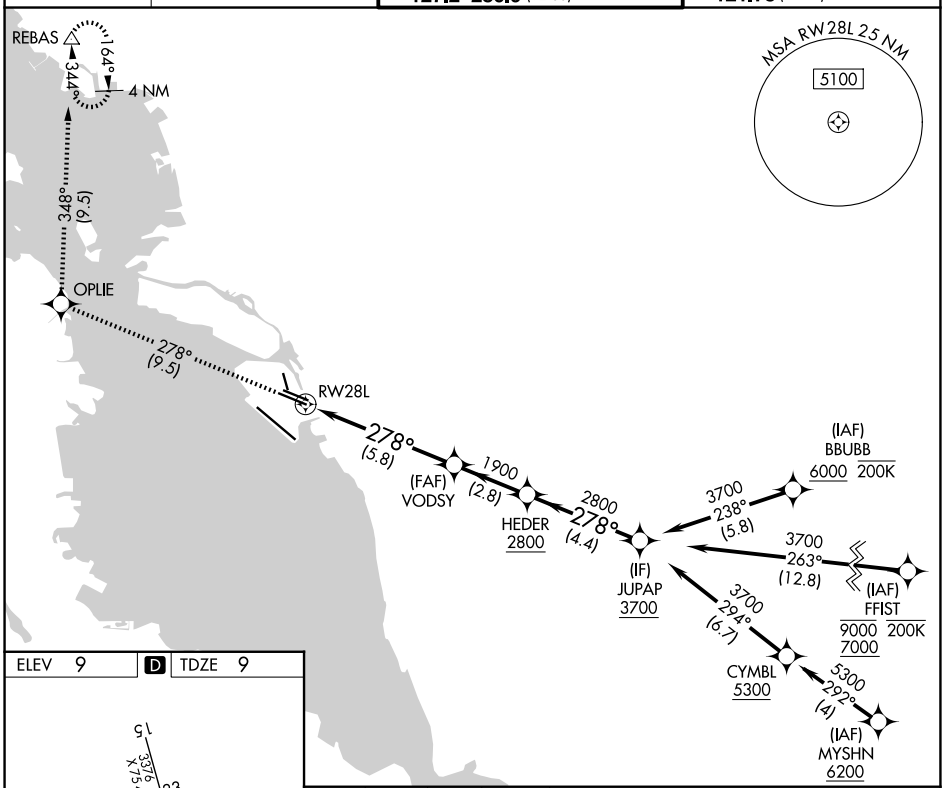
OAKLAND SAN FRANCISCO BAY (OAK)

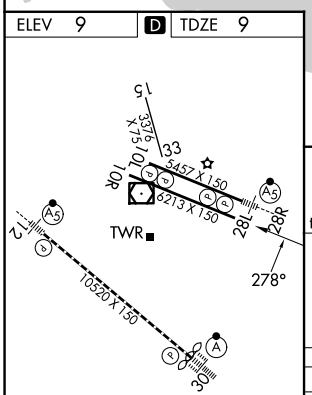
RNP AR APCH - GPS. Authorization required.

For uncompensated Baro-VNAV systems, procedure NA below 2°C or above 54°C.

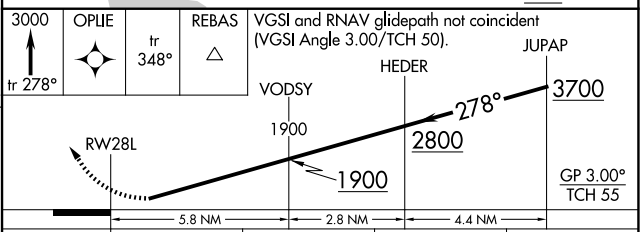
MISSED APPROACH: Climb to 3000 on track 278° to OPLIE and on track 348° to REBAS and hold.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)





REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L



CATEGORY	A	B	C	D
RNP 0.10 DA	306/45 297 (300-⅞)			
RNP 0.15 DA	359/55 350 (400-1)			
RNP 0.30 DA	425/60 416 (500-1¼)			

AUTHORIZATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (RNP) Z RWY 28R

OAKLAND SAN FRANCISCO BAY (OAK)

APP CRS	Rwy Ldg	5457
278°	TDZE	7
	Apt Elev	9

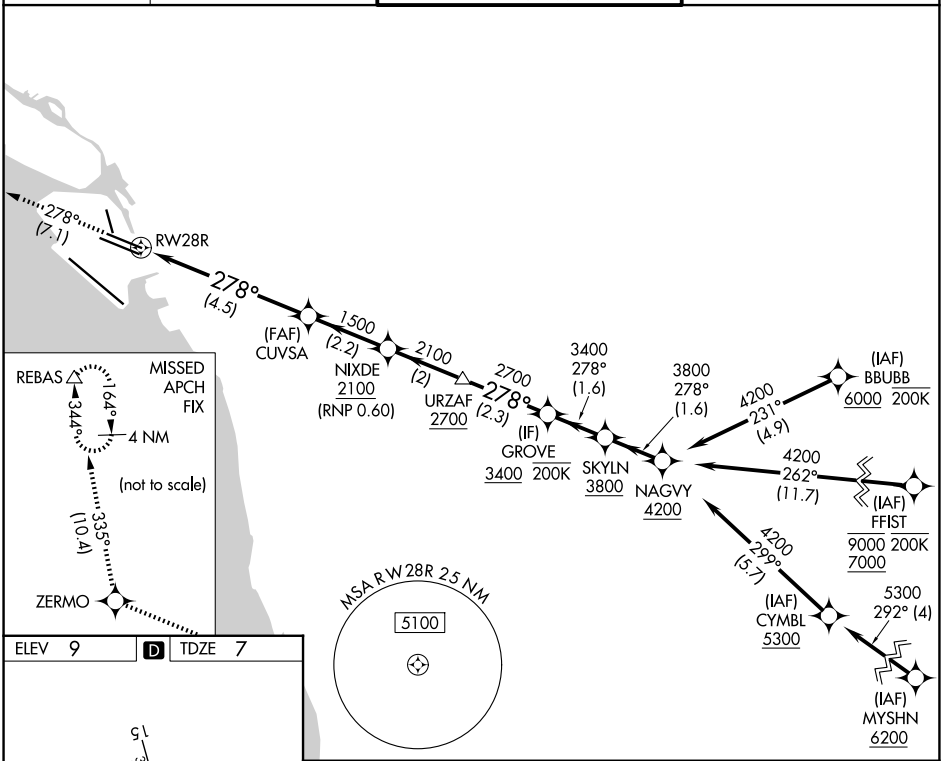
RNP AR APCH - GPS. Authorization required.

For uncompensated Baro-VNAV systems, procedure NA below 2°C or above 54°C. For inop ALS, increase RNP 0.30 all Cats visibility to RVR 6000.

MALSR

MISSED APPROACH: Climb to 3000 on 278° track to ZERMO and on 335° track to REBAS and hold.

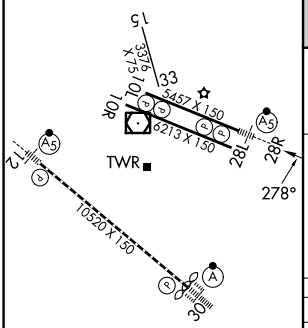
D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)



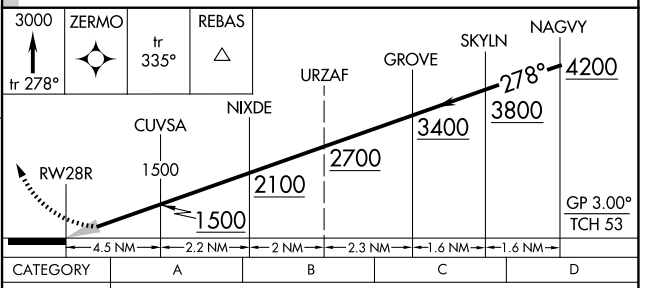
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ELEV 9 | D | TDZE 7



REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L



CATEGORY	A	B	C	D
RNP 0.10 DA	332/26 325 (400-½)			
RNP 0.30 DA	418/40 411 (500-¾)			

AUTHORIZATION REQUIRED

APP CRS	Rwy Ldg	10000
296°	TDZE	9
	Apt Elev	9

RNAV (RNP) Z RWY 30

OAKLAND SAN FRANCISCO BAY (OAK)

RNP AR APCH - GPS. Authorization required. From ALLXX or PARBB: RF.

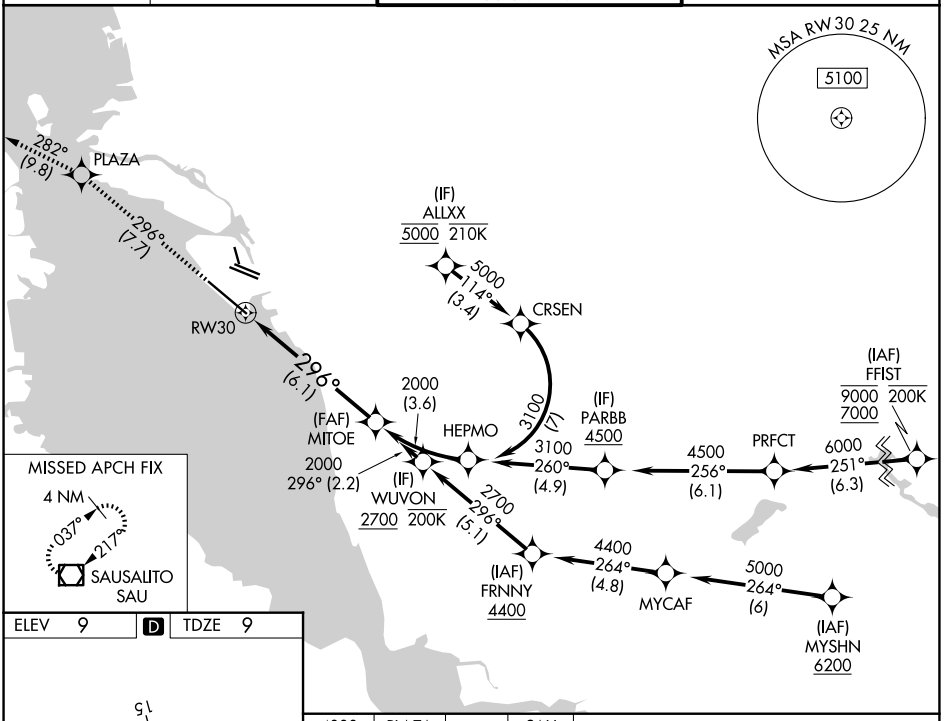
RADAR required.

For uncompensated Baro-VNAV systems, procedure NA below 2°C or above 54°C. For inop ALS, increase RNP 0.15 all Cats visibility to RVR 4500 and increase RNP 0.30 all Cats visibility to RVR 5500.

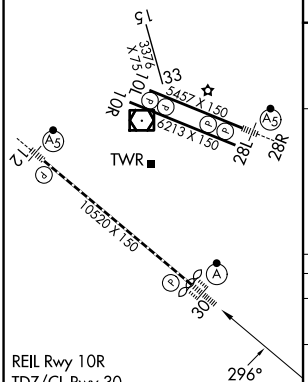
ALSF-2

MISSED APPROACH: Climb to 4000 on track 296° to PLAZA and on track 282° to SAU VOR/DME and hold, continue climb-in-hold to 4000.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)



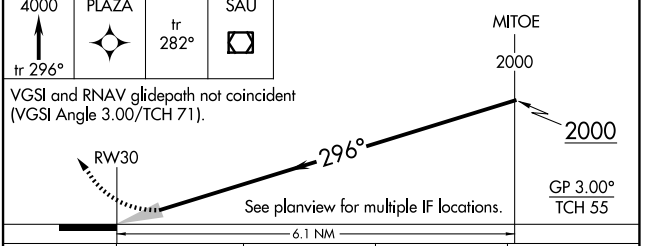
ELEV 9	D	TDZE 9



REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

4000 tr 296°	PLAZA	tr 282°	SAU

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
RNP 0.15 DA	281/24 272 (300-½)			
RNP 0.30 DA	385/35 376 (400-⅝)			

AUTHORIZATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 10L

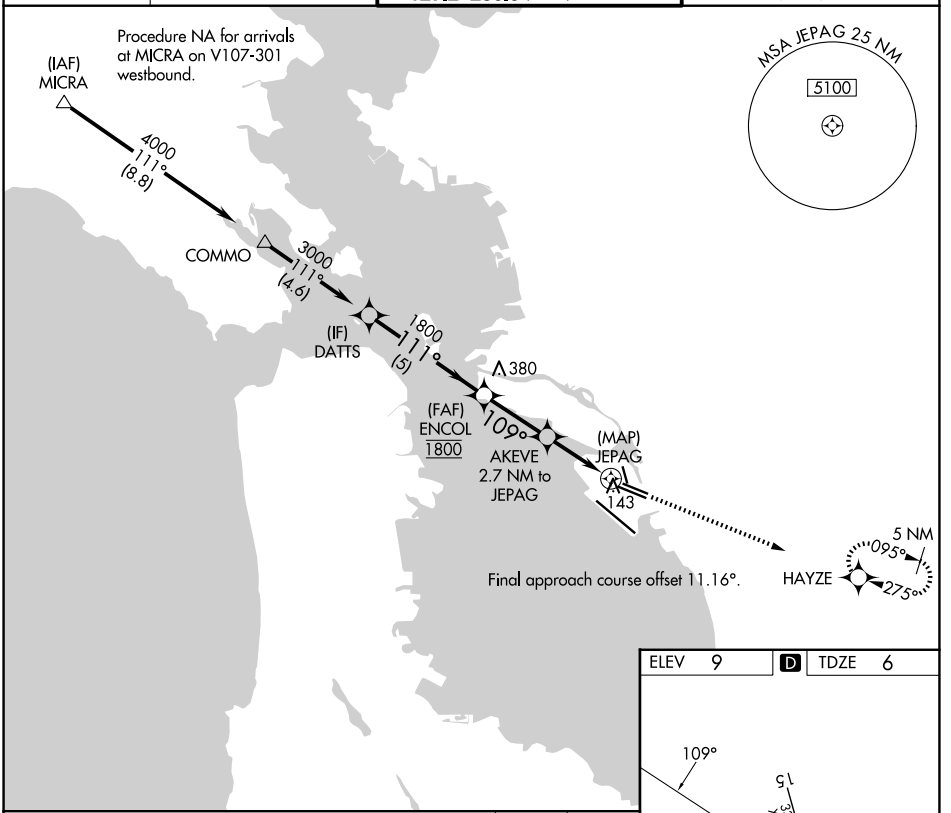
OAKLAND SAN FRANCISCO BAY (OAK)

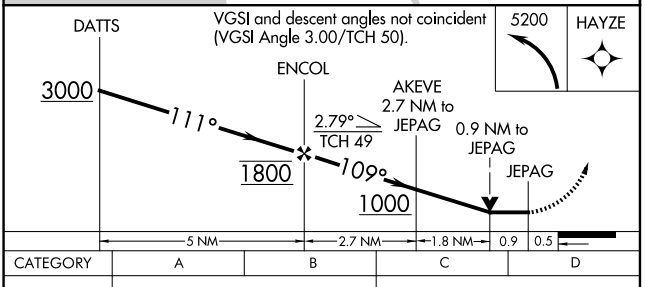
APP CRS	Rwy Ldg	5336
109°	TDZE	6
	Apt Elev	9

DME/DME RNP-0.3 NA.
Helicopter visibility reduction below ¾ SM not authorized.

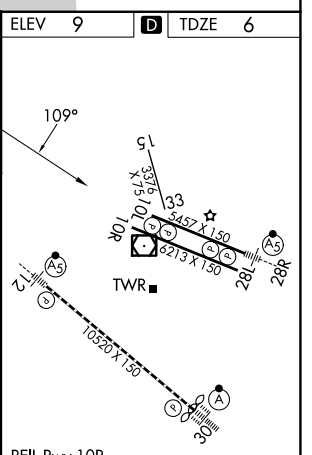
MISSED APPROACH: Climbing left turn to 5200 direct HAYZE and hold, continue climb-in-hold to 5200.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)





CATEGORY	A	B	C	D
LNAV MDA	500-1 494 (500-1)		500-1⅜ 494 (500-1⅜)	
CIRCLING	560-1 551 (600-1)		660-1¾ 651 (700-1¾)	1380-3 1371 (1400-3)



REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

37°43′N-122°13′W

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	6213
111°	TDZE	9
	Apt Elev	9

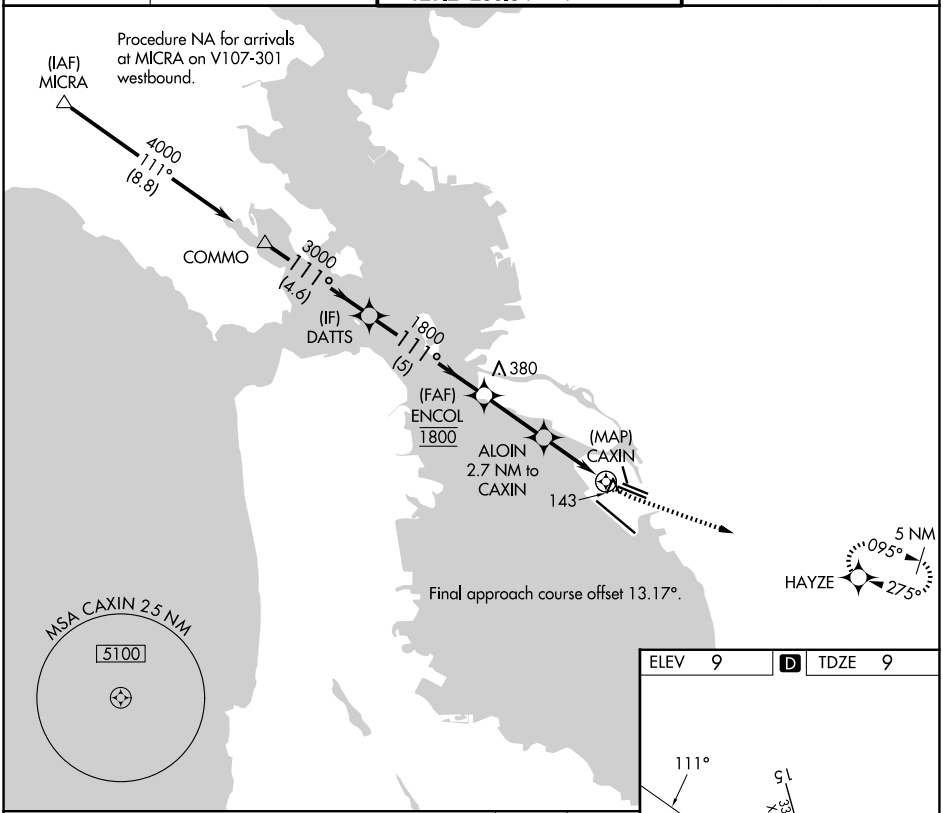
RNAV (GPS) RWY 10R

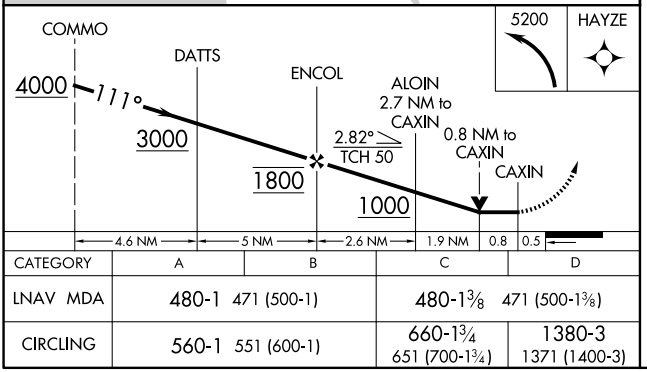
OAKLAND SAN FRANCISCO BAY (OAK)

DME/DME RNP-0.3 NA.
Helicopter visibility reduction below ¾ SM not authorized.

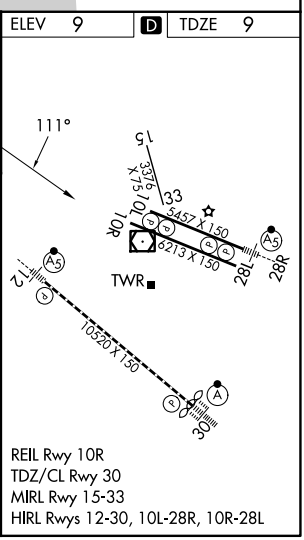
MISSED APPROACH: Climbing left turn to 5200 direct HAYZE and hold, continue climb-in-hold to 5200.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)





CATEGORY	A	B	C	D
LNAV MDA	480-1 471 (500-1)		480-1⅜ 471 (500-1⅜)	
CIRCLING	560-1 551 (600-1)		660-1¾ 651 (700-1¾)	1380-3 1371 (1400-3)



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) Y RWY 12

OAKLAND SAN FRANCISCO BAY (OAK)

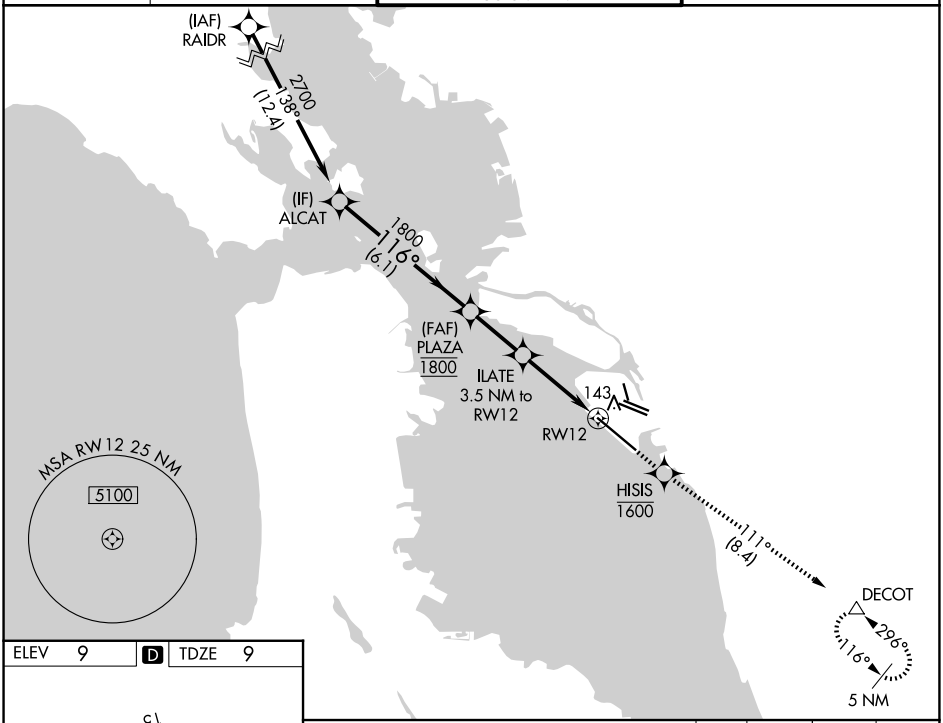
WAAS	APP CRS	Rwy Ldg	10000
CH 86418	116°	TDZE	9
W12A		Apt Elev	9

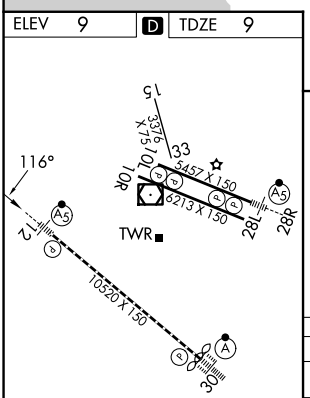
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C (32°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. #RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

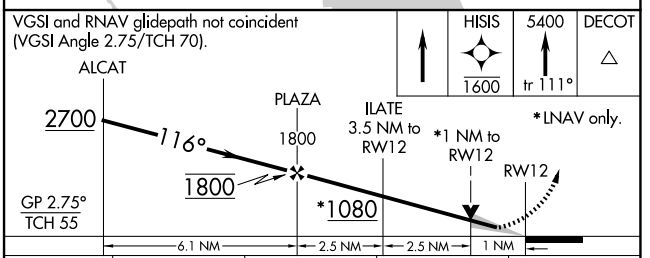
MISSED APPROACH: Climb direct HISIS to cross HISIS at or below 1600, then climb to 5400 on track 111° to DECOT and hold, continue climb-in-hold to 5400.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)





REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L



CATEGORY	A	B	C	D
LPV DA#	209/24 200 (200-½)			
LNAV/VNAV DA	304/27 295 (300-⅝)			
LNAV MDA	360/24 351 (400-½)		360/30 351 (400-⅝)	
CIRCLING	560-1 551 (600-1)		660-1¾ 651 (700-1¾)	1380-3 1371 (1400-3)

37°43'N-122°13'W

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) Y RWY 28L

OAKLAND SAN FRANCISCO BAY (OAK)

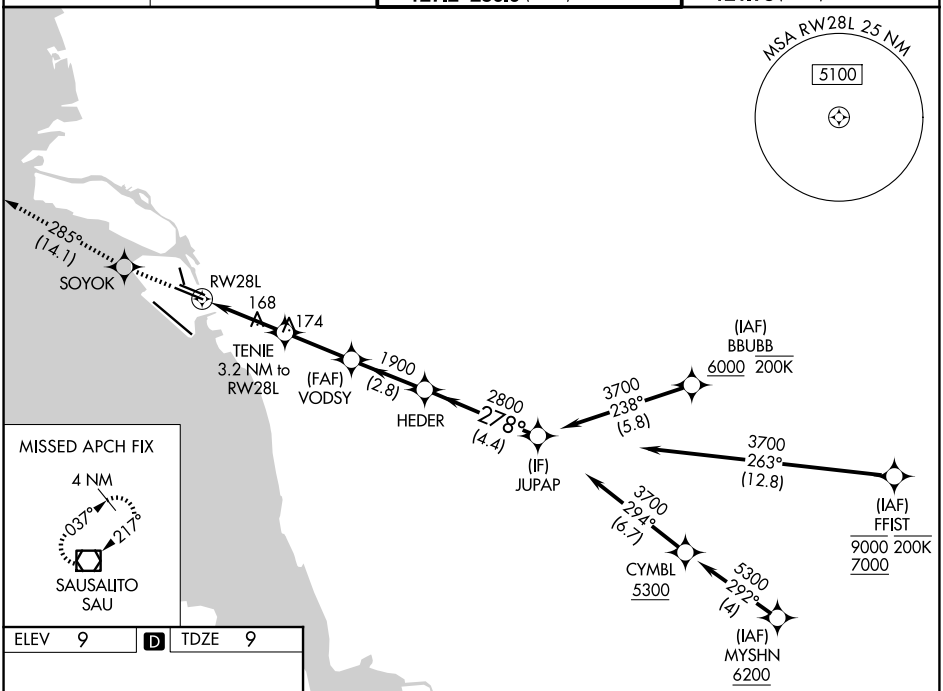
WAAS	APP CRS	Rwy Ldg	6213
CH 72700	278°	TDZE	9
W28A		Apt Elev	9

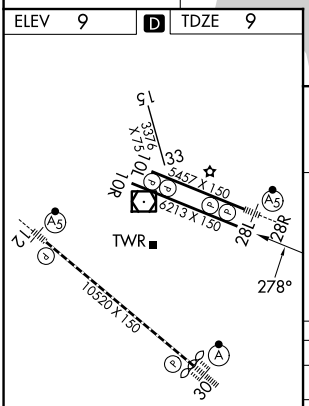
RNP APCH - GPS.

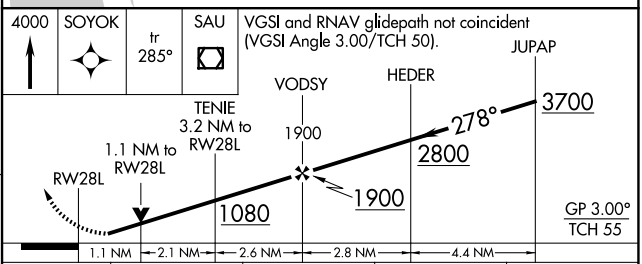
Rwy 28L helicopter visibility reduction below RVR 4000 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2°C or above 54°C.

MISSED APPROACH: Climb to 4000 direct SOYOK and on track 285° to SAU VOR/DME and hold, continue climb-in-hold to 4000.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)







CATEGORY	A	B	C	D
LPV DA	259/40 250 (300-¾)			
LNAV/VNAV DA	387/55 378 (400-1)			
LNAV MDA	420/55 411 (500-1)		420/60 411 (500-1¼)	
CIRCLING	560-1 551 (600-1)		660-1¾ 651 (700-1¾)	1400-3 1391 (1400-3)

REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

OAKLAND, CALIFORNIA AL-294 (FAA) 25275

RNAV (GPS) Y RWY 28R

OAKLAND SAN FRANCISCO BAY (OAK)

WAAS CH 42535 W28B	APP CRS 278°	Rwy Ldg 5457 TDZE 7 Apt Elev 9

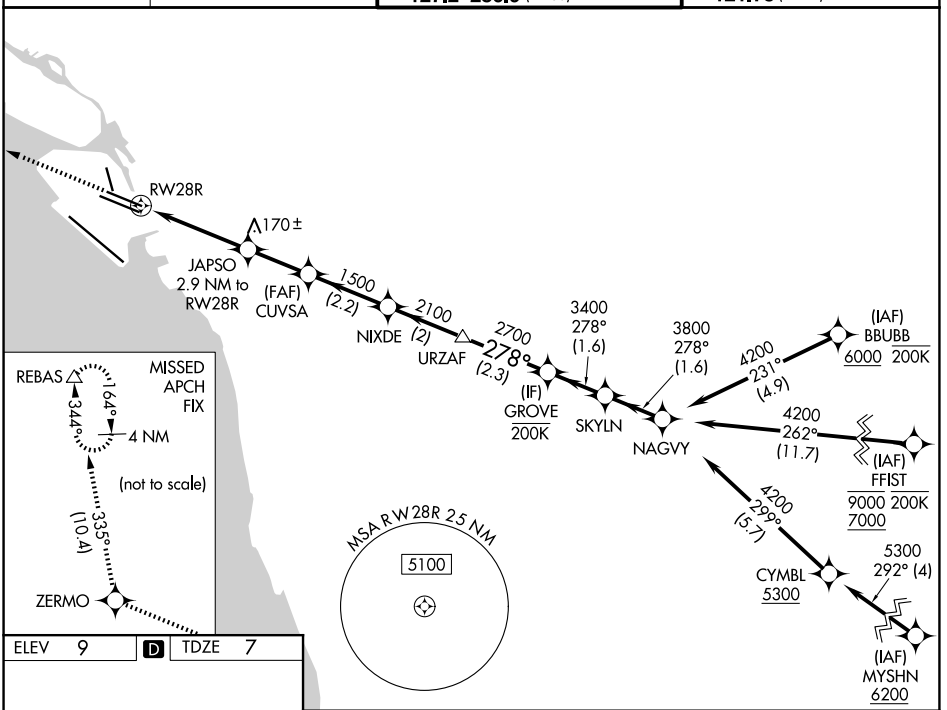
RNP APCH - GPS.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2°C or above 54°C. For inop ALS, LNAV/VNAV all Cats increase visibility to RVR 5500.
*RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

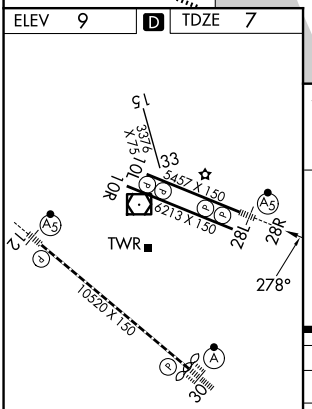
MISSED APPROACH: Climb to 3000 direct ZERMO and on track 335° to REBAS and hold.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)

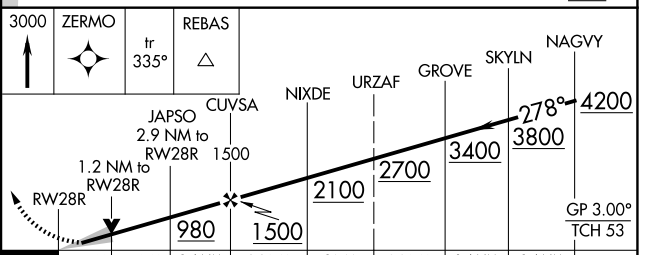


SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026



REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L



CATEGORY	A	B	C	D
LPV DA*	207/24 200 (200-½)			
LNAV/VNAV DA	387/35 380 (400-⅝)			
LNAV MDA	440/24 433 (500-½)		440/40 433 (500-¾)	
CIRCLING	560-1 551 (600-1)		660-1¾ 651 (700-1¾)	1400-3 1391 (1400-3)

OAKLAND, CALIFORNIA
Amdt 4 12JUN25

37°43′N-122°13′W

OAKLAND SAN FRANCISCO BAY (OAK)

RNAV (GPS) Y RWY 28R

RNAV (GPS) Y RWY 30

OAKLAND SAN FRANCISCO BAY (OAK)

WAAS	APP CRS	Rwy Ldg 10000
CH 93535	296°	TDZE 9
W30A		Apt Elev 9

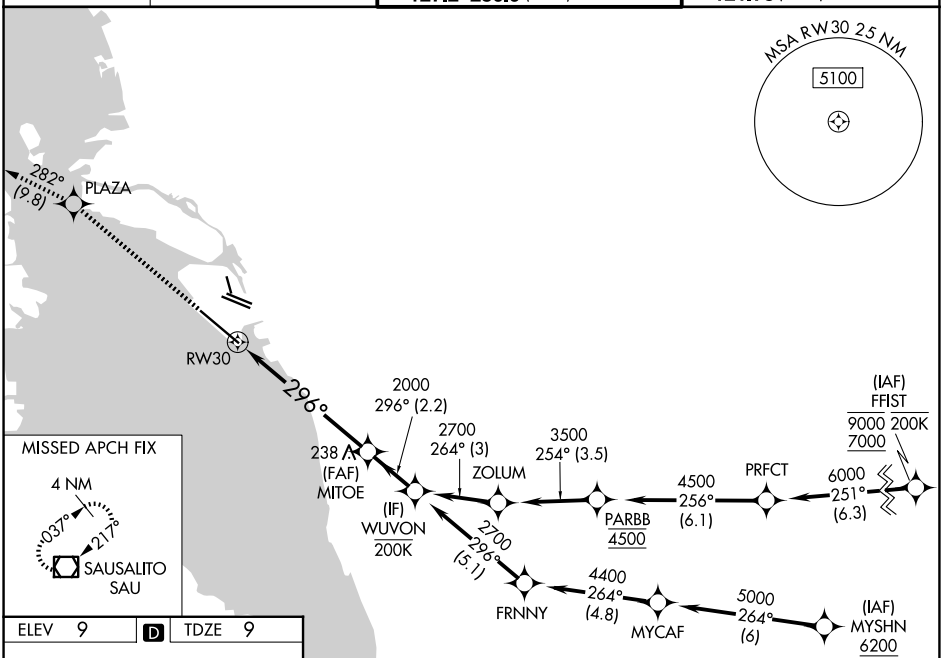
RNP APCH - GPS.

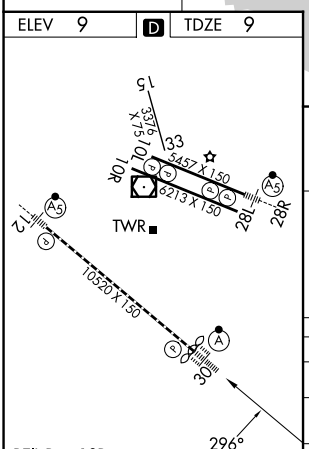
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2°C or above 54°C. For inop ALS, increase LNAV/VNAV Cats A/B/C visibility to RVR 4000, Cat D visibility to RVR 4500, and LNAV Cats C/D visibility to 1⅜ SM.

ALSF-2

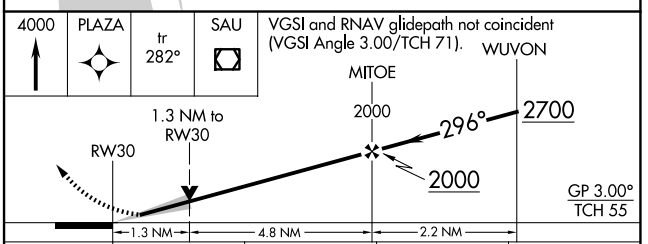
MISSED APPROACH: Climb to 4000 direct PLAZA and on track 282° to SAU VOR/DME and hold, continue climb-in-hold to 4000.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)





REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L



CATEGORY	A	B	C	D
LPV DA	209/18 200 (200-½)			
LNAV/VNAV DA	259/24 250 (300-½)		265/24 256 (300-½)	283/24 274 (300-½)
LNAV MDA	500/24 491 (500-½)		500/50 491 (500-1)	
CIRCLING	560-1 551 (600-1)		660-1¾ 651 (700-1¾)	1400-3 1391 (1400-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VOR RWY 10R

OAKLAND SAN FRANCISCO BAY (OAK)

VOR/DME OAK	APP CRS	Rwy Ldg	6213
116.8	108°	TDZE	9
Chan 115		Apt Elev	9

Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 5300 on OAK VOR/DME R-093 to HAYZE INT/OAK 9 DME and hold, continue climb-in-hold to 5300.

D-ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON
133.775	125.35 263.15	118.3 291.65 (10L/R-28L/R, 15-33) 127.2 256.9 (12-30)	121.9 (10L/R-28L/R, 15-33) 121.75 (12-30)

Procedure NA for arrivals at MICRA on V107-301 westbound.

(IAF) MICRA — 4000 108° (8.8) — R-288 — (IF) COMMO OAK 15.6 — 3000 108° (4.6) — DATTS INT OAK 11 — 1800 108° (5) — 380 — ENCOL INT OAK 6 — 1800

R-323 R-335 R-356 R-329 R-093 093° 273° 114.1 SJC Chan 88

YEGGU OAK 0.8

OAKLAND 116.8 OAK Chan 115

HAYZE INT OAK 9

SAN FRANCISCO 115.8 SFO Chan 105

MSA OAK 25 NM — 170° — 350° — 3800 — 5100

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 50).

COMMO OAK 15.6 — DATTS INT OAK 11 — ENCOL INT OAK 6 — OAK 2.3 — OAK VOR/DME — YEGGU OAK 0.8

4000 — 108° — 3000 — 2.82° TCH 50 — 1800

5300 — OAK R-093 — HAYZE INT

4.6 NM — 5 NM — 3.7 NM — 1.5 NM — 0.6

ELEV 9 — D — TDZE 9

108° — 15 — 33 — 10L — 10R — 28L — 28R — 3376 X 75 — 5457 X 150 — 6213 X 150 — 10520 X 150 — A5 — TWR

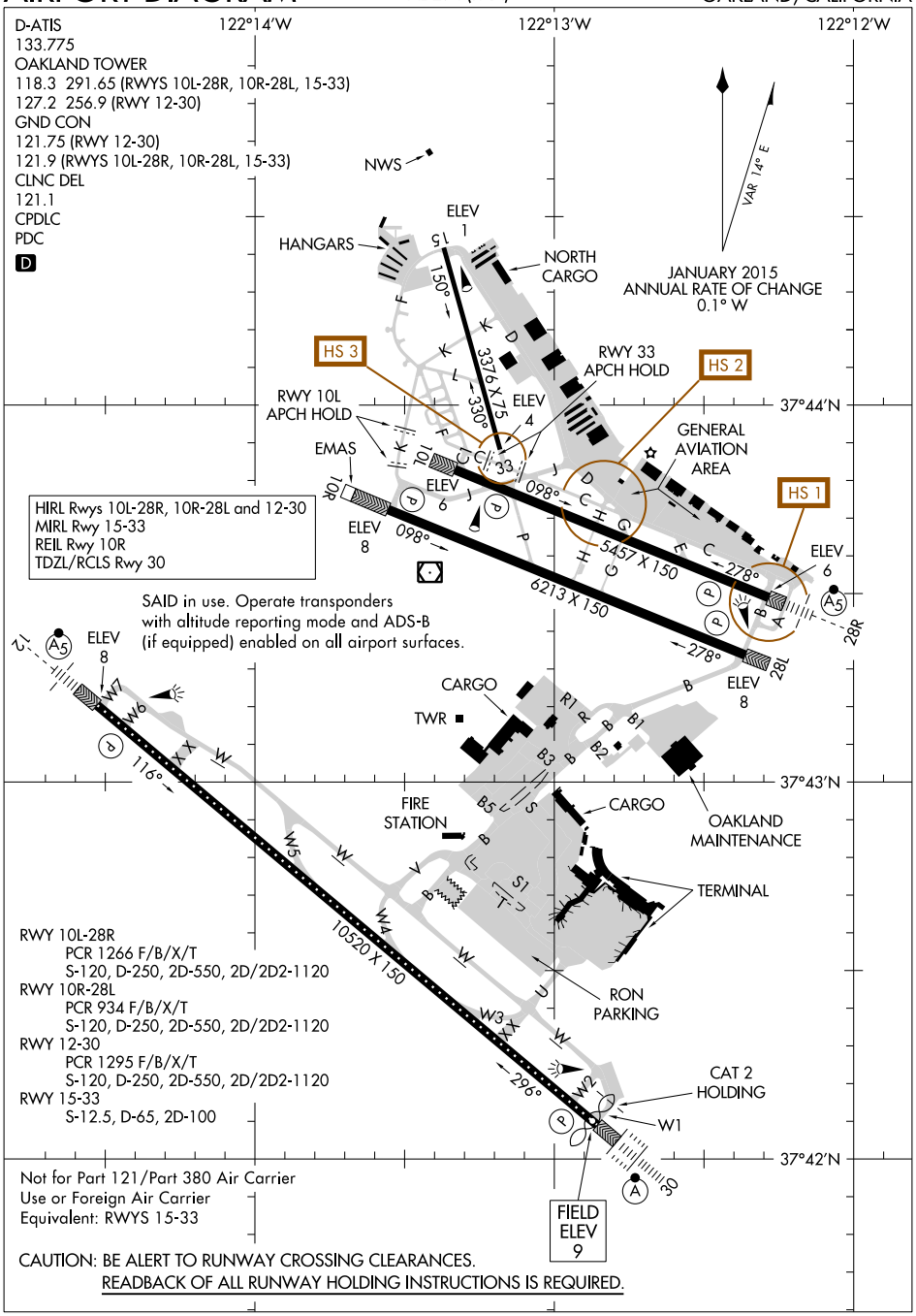
REIL Rwy 10R
TDZ/CL Rwy 30
MIRL Rwy 15-33
HIRL Rwys 12-30, 10L-28R, 10R-28L

CATEGORY	A	B	C	D
S-10R	740-1	731 (800-1)	740-2	731 (800-2)
CIRCLING	740-1	731 (800-1)	740-2 731 (800-2)	1380-3 1371 (1400-3)

FAF to MAP 5.2 NM

Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026


D-ATIS
133.775
OAKLAND TOWER
118.3 291.65 (RWYS 10L-28R, 10R-28L, 15-33)
127.2 256.9 (RWY 12-30)
GND CON
121.75 (RWY 12-30)
121.9 (RWYS 10L-28R, 10R-28L, 15-33)
CLNC DEL
121.1
CPDLC
PDC
D
122°14'W
122°13'W
122°12'W
37°44'N
37°43'N
37°42'N
NWS
VAR 14° E
JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W
HANGARS
ELEV 1
NORTH CARGO
HS 3
HS 2
HS 1
RWY 33 APCH HOLD
RWY 10L APCH HOLD
ELEV 4
3376 X 75
150°
330°
EMAS
ELEV 6
ELEV 8
098°
278°
5457 X 150
6213 X 150
GENERAL AVIATION AREA
HIRL Rwys 10L-28R, 10R-28L and 12-30
MIRL Rwy 15-33
REIL Rwy 10R
TDZL/RCLS Rwy 30
SAID in use. Operate transponders
with altitude reporting mode and ADS-B
(if equipped) enabled on all airport surfaces.
CARGO
TWR
FIRE STATION
OAKLAND MAINTENANCE
TERMINAL
RON PARKING
CAT 2 HOLDING
116°
296°
10520 X 150
RWY 10L-28R
PCR 1266 F/B/X/T
S-120, D-250, 2D-550, 2D/2D2-1120
RWY 10R-28L
PCR 934 F/B/X/T
S-120, D-250, 2D-550, 2D/2D2-1120
RWY 12-30
PCR 1295 F/B/X/T
S-120, D-250, 2D-550, 2D/2D2-1120
RWY 15-33
S-12.5, D-65, 2D-100
Not for Part 121/Part 380 Air Carrier
Use or Foreign Air Carrier
Equivalent: RWYS 15-33
FIELD ELEV 9
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

(CNDEL5.CNDEL) 25275

CNDEL FIVE DEPARTURE (RNAV)

OAKLAND SAN FRANCISCO BAY (OAK)
AL-294 (FAA) OAKLAND, CALIFORNIA

NORCAL DEP CON
135.1 307.2
D-ATIS 133.775
CLNC DEL 121.1
CPDLC
GND CON
121.9 (Rwys 10L/R, 28L/28R, 15/33)
121.75 (Rwy 12/30)
OAKLAND TOWER
118.3 291.65 (Rwys 10L/R, 28L/28R, 15/33)
127.2 256.9 (Rwy 12/30)

TOP ALTITUDE: 10000

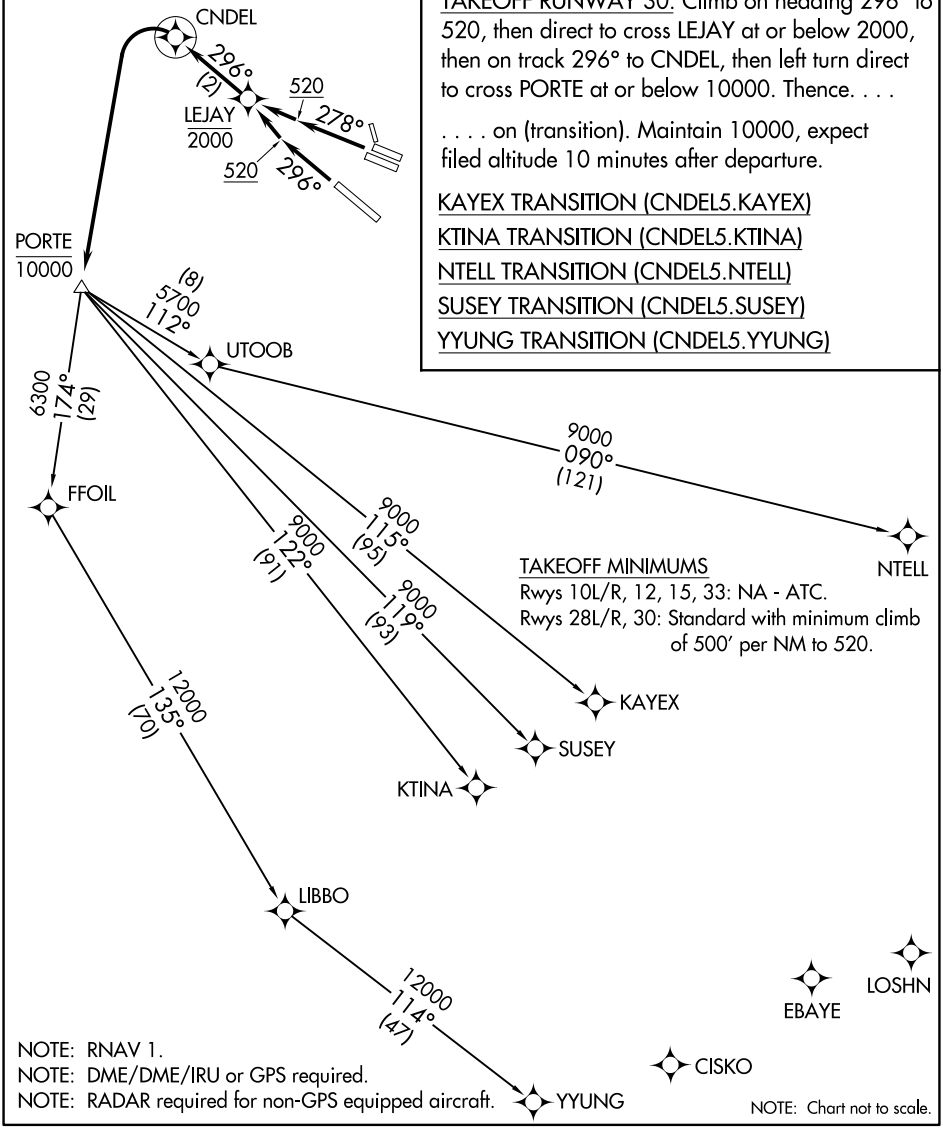
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28L, 28R: Climb on heading 278° to 520, then direct to cross LEJAY at or below 2000, then on track 296° to CNDEL, then left turn direct to cross PORTE at or below 10000. Thence. . . .

TAKEOFF RUNWAY 30: Climb on heading 296° to 520, then direct to cross LEJAY at or below 2000, then on track 296° to CNDEL, then left turn direct to cross PORTE at or below 10000. Thence. . . .

. . . . on (transition). Maintain 10000, expect filed altitude 10 minutes after departure.

KAYEX TRANSITION (CNDEL5.KAYEX)
KTINA TRANSITION (CNDEL5.KTINA)
NTELL TRANSITION (CNDEL5.NTELL)
SUSEY TRANSITION (CNDEL5.SUSEY)
YYUNG TRANSITION (CNDEL5.YYUNG)



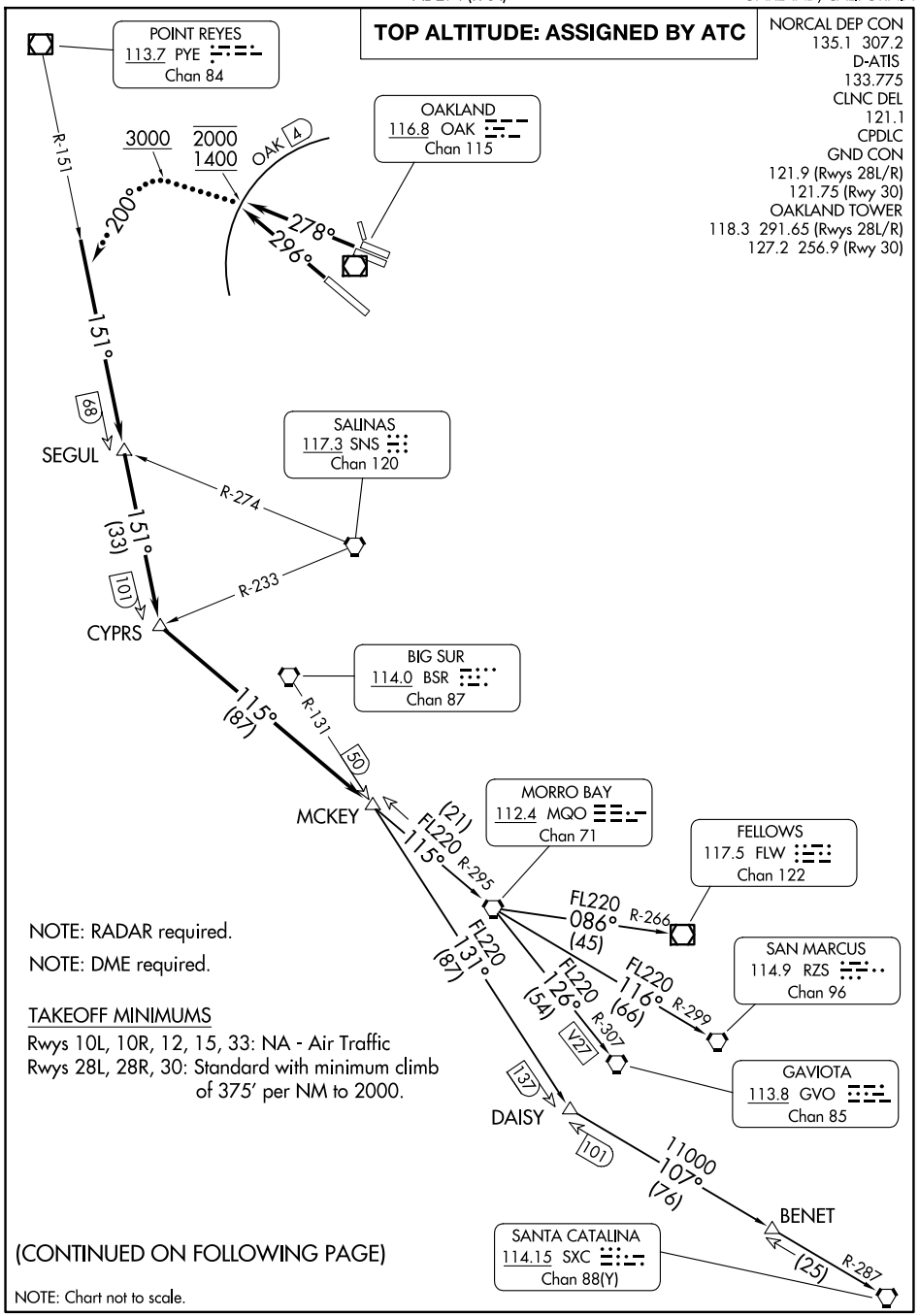
TAKEOFF MINIMUMS
Rwys 10L/R, 12, 15, 33: NA - ATC.
Rwys 28L/R, 30: Standard with minimum climb of 500' per NM to 520.

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required for non-GPS equipped aircraft.

NOTE: Chart not to scale.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28L/R: Climb heading 278° for RADAR vectors to PYE R-151, cross 4 DME northwest of OAK VOR/DME at or above 1400 and at or below 2000. Thence . . . .

TAKEOFF RUNWAY 30: Climb heading 296° for RADAR vectors to PYE R-151, cross 4 DME northwest of OAK VOR/DME at or above 1400 and at or below 2000. Thence . . . .

. . . . intercept and proceed on the PYE R-151 to SEGUL INT, then on PYE R-151 to CYPRS INT, then on MQO R-295 to MCKEY INT, then on assigned (transition). Maintain FL220. Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: After reaching 3000, turn left heading 200° to intercept and proceed on PYE R-151, then resume own navigation.

FELLOWS TRANSITION (COAST9.FLW): From over MCKEY INT on MQO R-295 to MQO VORTAC, then on MQO R-086 and FLW R-266 to FLW VOR/DME.

GAVIOTA TRANSITION (COAST9.GVO): From over MCKEY INT on MQO R-295 to MQO VORTAC, then on MQO R-126 and GVO R-307 to GVO VORTAC.

SAN MARCUS TRANSITION (COAST9.RZS): From over MCKEY INT on MQO R-295 to MQO VORTAC, then on MQO R-116 and RZS R-299 to RZS VORTAC.

SANTA CATALINA TRANSITION (COAST9.SXC): From over MCKEY INT on BSR R-131 to DAISY INT, then on SXC R-287 to SXC VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026

HUSSH TWO DEPARTURE (RNAV)

(HUSSH2.HUSSH) 25JUN15

OAKLAND, CALIFORNIA

OAKLAND SAN FRANCISCO BAY (OAK)

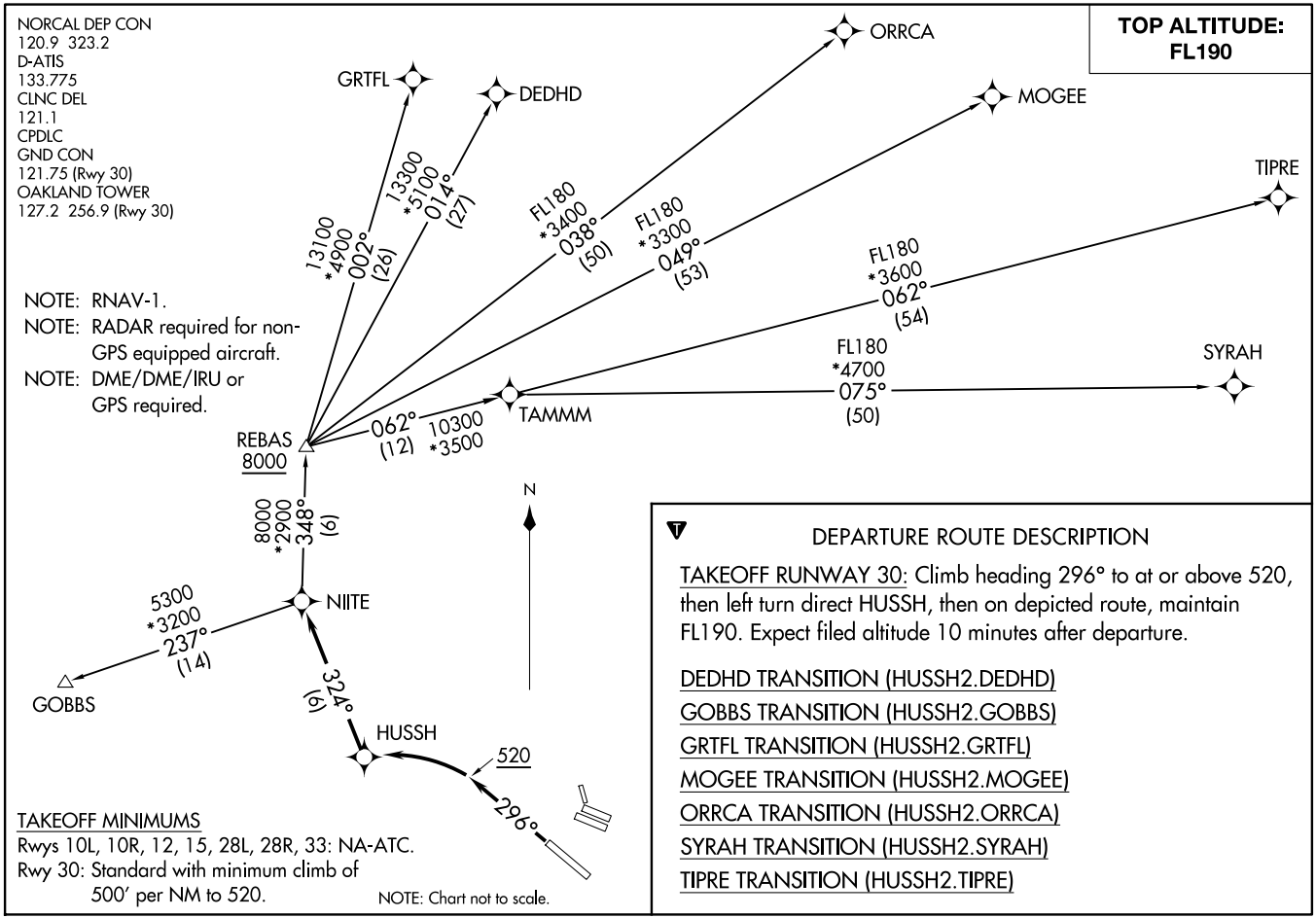
(HUSSH2.HUSSH) 25275

HUSSH TWO DEPARTURE (RNAV)

AL-294 (FAA)

OAKLAND SAN FRANCISCO BAY (OAK)

OAKLAND, CALIFORNIA



(KATFH3.KATFH) 25275

KATFH THREE DEPARTURE (RNAV)

AL-294 (FAA)

OAKLAND SAN FRANCISCO BAY (OAK)
OAKLAND, CALIFORNIA

D-ATIS 133.775
CLNC DEL
121.1
CPDLC
GND CON
121.9 (Rwys 10L/R, 28L/28R, 15/33)
121.75 (Rwy 12/30)
OAKLAND TOWER
118.3 291.65 (Rwys 10L/R, 28L/28R, 15/33)
127.2 256.9 (Rwy 12/30)
NORCAL DEP CON
135.1 307.2

TOP ALTITUDE: ASSIGNED BY ATC

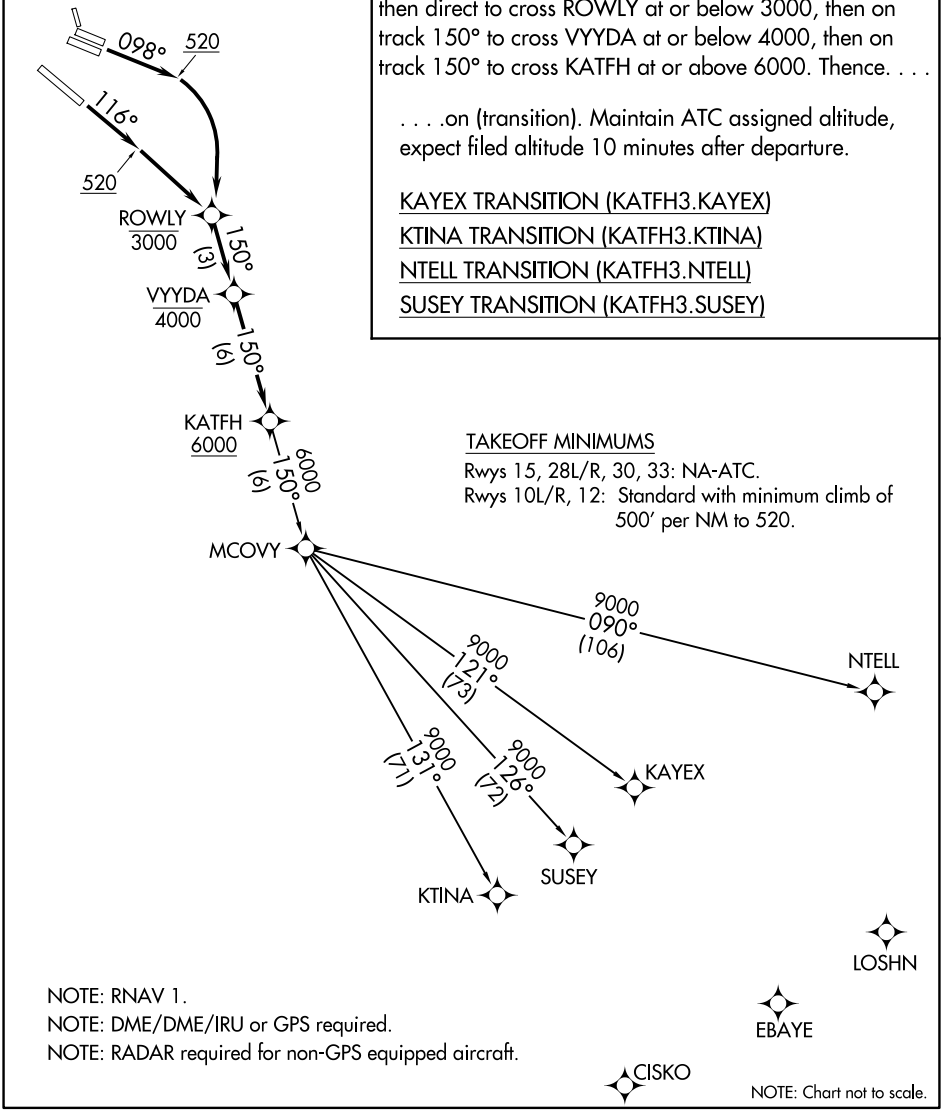
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 10L, 10R: Climb on heading 098° to 520, then right turn direct to cross ROWLY at or below 3000, then on track 150° to cross VYYDA at or below 4000, then on track 150° to cross KATFH at or above 6000. Thence. . . .

TAKEOFF RUNWAY 12: Climb on heading 116° to 520, then direct to cross ROWLY at or below 3000, then on track 150° to cross VYYDA at or below 4000, then on track 150° to cross KATFH at or above 6000. Thence. . . .

. . . .on (transition). Maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

KAYEX TRANSITION (KATFH3.KAYEX)
KTINA TRANSITION (KATFH3.KTINA)
NTELL TRANSITION (KATFH3.NTELL)
SUSEY TRANSITION (KATFH3.SUSEY)



TAKEOFF MINIMUMS

Rwys 15, 28L/R, 30, 33: NA-ATC.
Rwys 10L/R, 12: Standard with minimum climb of 500' per NM to 520.

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required for non-GPS equipped aircraft.

NOTE: Chart not to scale.

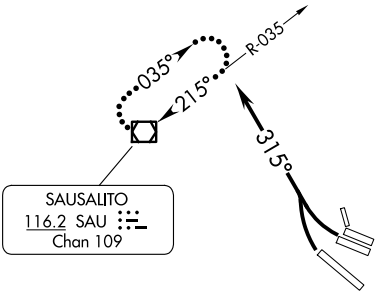
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

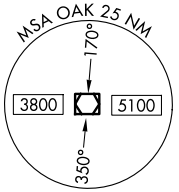
NORCAL DEP CON
127.0 298.95
D-ATIS
133.775
CLNC DEL
121.1
CPDLC

RADAR required.

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 10L/R, 12, 15, 33: NA-Air Traffic.
Rwys 28L/R, 30: Standard with minimum climb of 375' per NM to 2000.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28L/R and 30: Climbing right turn heading 315° for RADAR vectors to assigned route/fix. Maintain ATC assigned altitude. Expect filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control after reaching 4000', proceed direct to SAU VOR/DME and hold on the SAU R-035. Climb in holding pattern to assigned altitude, then proceed to assigned fix/route.

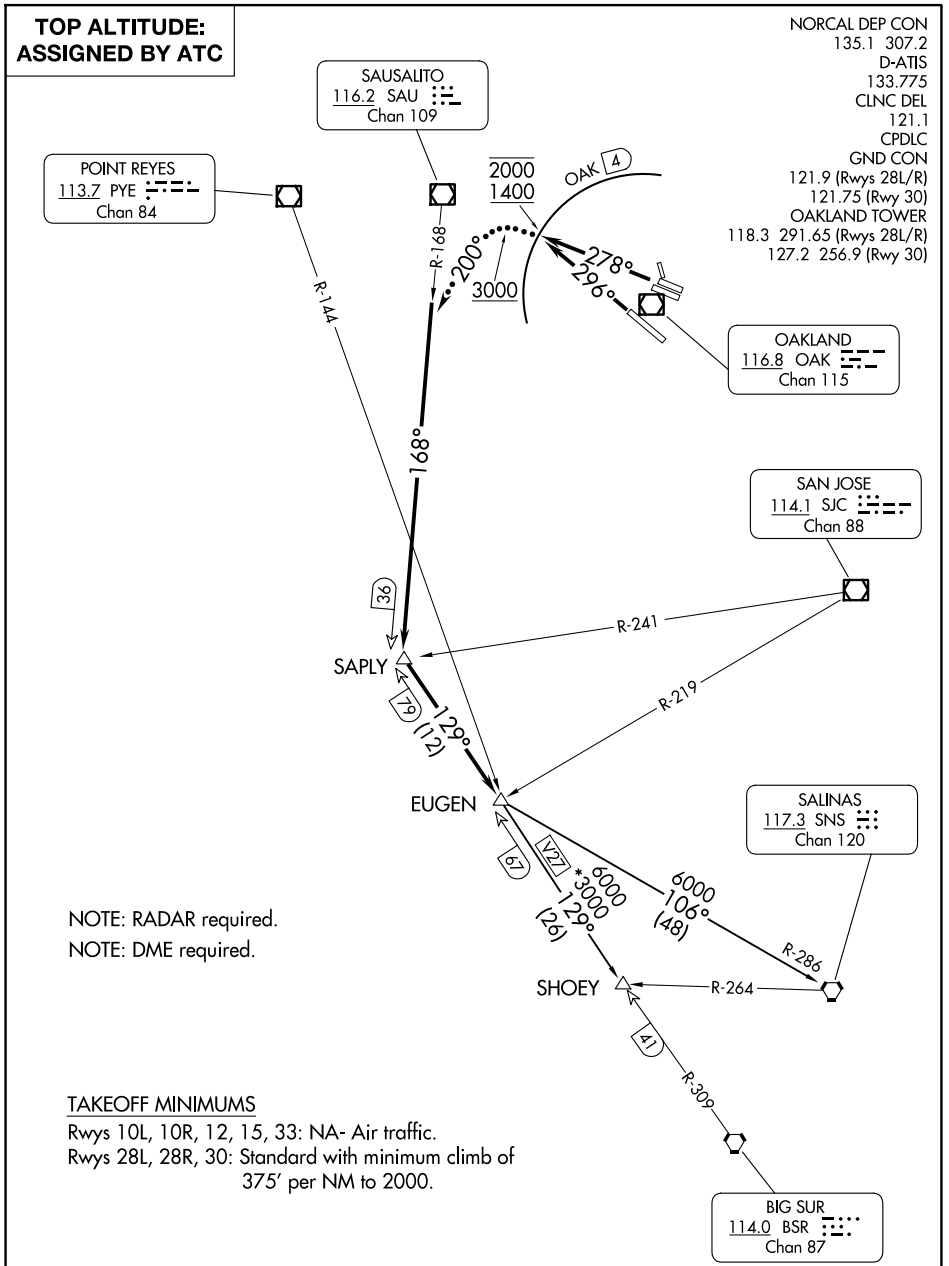
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(NUEVO8.EUGEN) 25275

NUEVO EIGHT DEPARTURE

AL-294 (FAA)

OAKLAND SAN FRANCISCO BAY (OAK)
OAKLAND, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28L/R: Climb heading 278° for RADAR vectors to SAU R-168, cross 4 DME northwest of OAK VOR/DME at or above 1400 and at or below 2000. Thence . . . .
TAKEOFF RUNWAY 30: Climb heading 296° for RADAR vectors to SAU R-168, cross 4 DME northwest of OAK VOR/DME at or above 1400 and at or below 2000. Thence . . . .

. . . . intercept and proceed on the SAU R-168 to SAPLY INT and on BSR R-309 to EUGEN INT, then via assigned (transition). Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: After reaching 3000, turn left heading 200° to intercept and proceed via SAU R-168, then resume own navigation.

SALINAS TRANSITION (NUEVO8.SNS): From over EUGEN INT on SNS R-286 to SNS VORTAC.
SHOEY TRANSITION (NUEVO8.SHOEY): From over EUGEN INT on BSR R-309 to SHOEY INT.

SW-2, 09 JUL 2026 to 03 SEP 2026

(OAK6.OAK) 25275

OAKLAND SIX DEPARTURE

AL-294 (FAA)

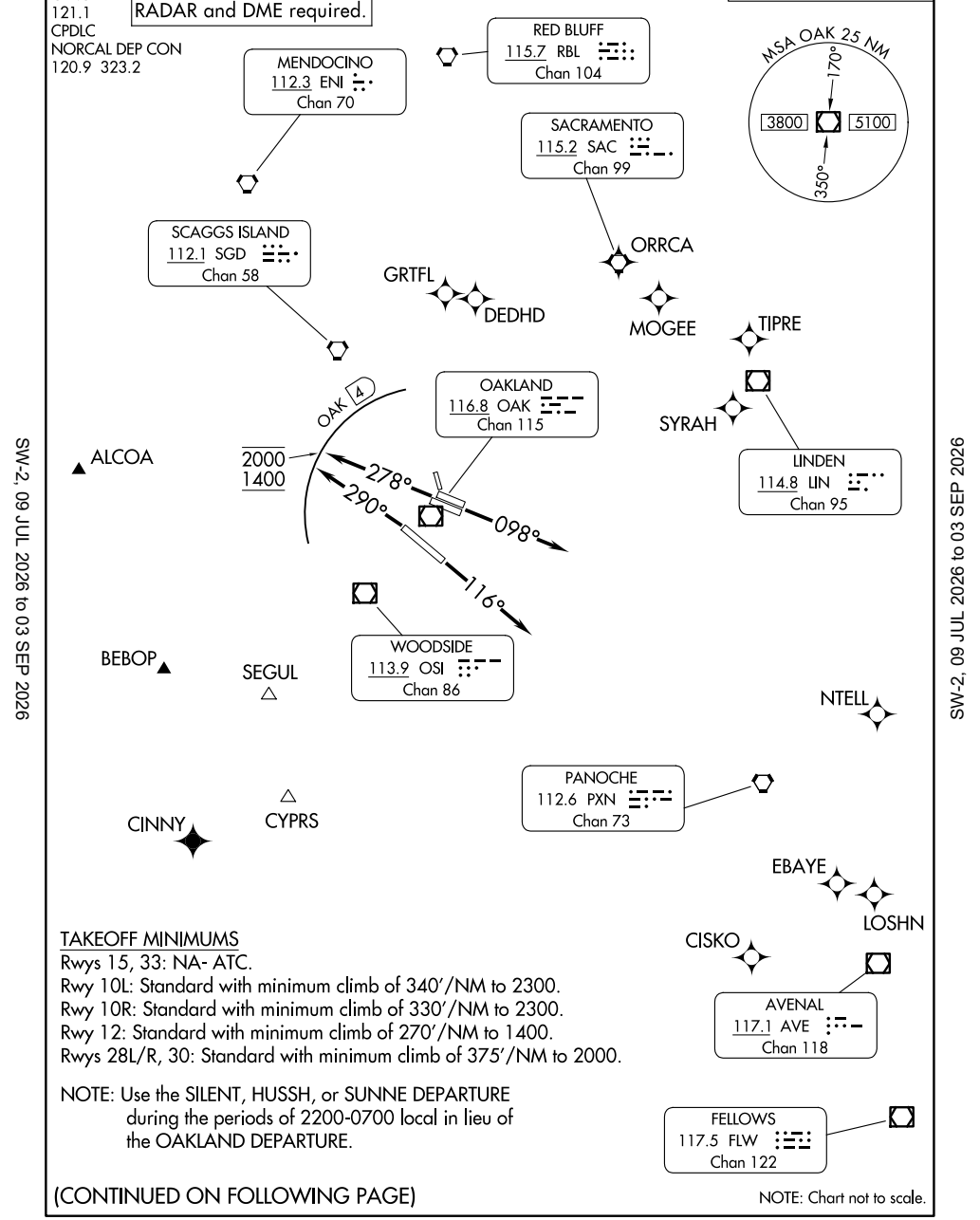
OAKLAND SAN FRANCISCO BAY (OAK)
OAKLAND, CALIFORNIA

D-ATIS 133.775
CLNC DEL 121.1
CPDLC
NORCAL DEP CON 120.9 323.2

RNAV 1-GPS. From ALCOA, BEBOP, CINNY, CISKO, DEDHD, EBAYE, GRTFL, LOSHN, MOGEE, NTELL, ORRCA, SYRAH, or TIPRE.

RADAR and DME required.

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 15, 33: NA- ATC.
Rwy 10L: Standard with minimum climb of 340'/NM to 2300.
Rwy 10R: Standard with minimum climb of 330'/NM to 2300.
Rwy 12: Standard with minimum climb of 270'/NM to 1400.
Rwys 28L/R, 30: Standard with minimum climb of 375'/NM to 2000.

NOTE: Use the SILENT, HUSSH, or SUNNE DEPARTURE during the periods of 2200-0700 local in lieu of the OAKLAND DEPARTURE.

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 10L/R: Climb on heading 098° for RADAR vectors to assigned route/fix, thence. . . .
TAKEOFF RUNWAY 12: Climb on heading 116° for RADAR vectors to assigned route/fix, thence. . . .
TAKEOFF RUNWAYS 28L/R: Climb on heading 278° for RADAR vectors to assigned route/fix. Cross 4 DME northwest of OAK VOR/DME at or above 1400 and at or below 2000, thence. . . .
TAKEOFF RUNWAY 30: Climb on heading 290° for RADAR vectors to assigned route/fix. Cross 4 DME northwest of OAK VOR/DME at or above 1400 and at or below 2000, thence. . . .

. . . .maintain ATC assigned altitude. Expect filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control after reaching 5000', continue climb to assigned altitude and proceed direct to assigned route/fix.

SW-2, 09 JUL 2026 to 03 SEP 2026

(QUAKE2.QAK) 25275

QUAKE TWO DEPARTURE

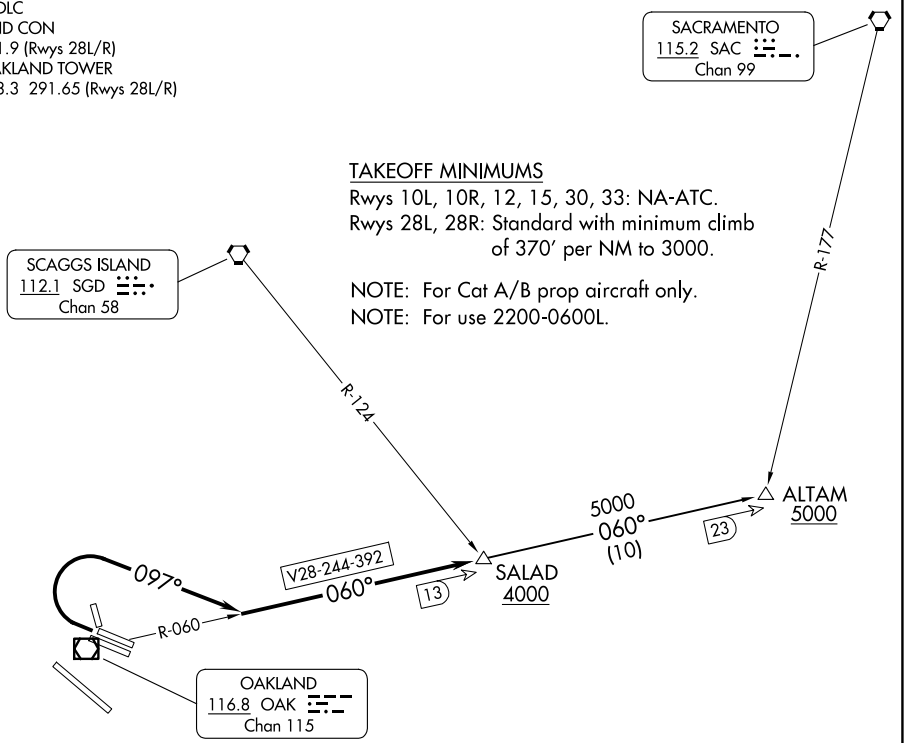
AL-294 (FAA)

OAKLAND SAN FRANCISCO BAY (OAK)
OAKLAND, CALIFORNIA

SW-2, 09 JUL 2026 to 03 SEP 2026

NORCAL DEP CON
120.9 323.2
D-ATIS
133.775
CLNC DEL
121.1
CPDLC
GND CON
121.9 (Rwys 28L/R)
OAKLAND TOWER
118.3 291.65 (Rwys 28L/R)

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28 L/R: Climbing right turn heading 097° to intercept OAK VOR/DME R-060 to cross SALAD/OAK 13 DME at or above 4000, thence . . . .

. . . . on ALTAM transition. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ALTAM TRANSITION (SALAD5.ALTAM): From over SALAD on OAK R-060 to ALTAM.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

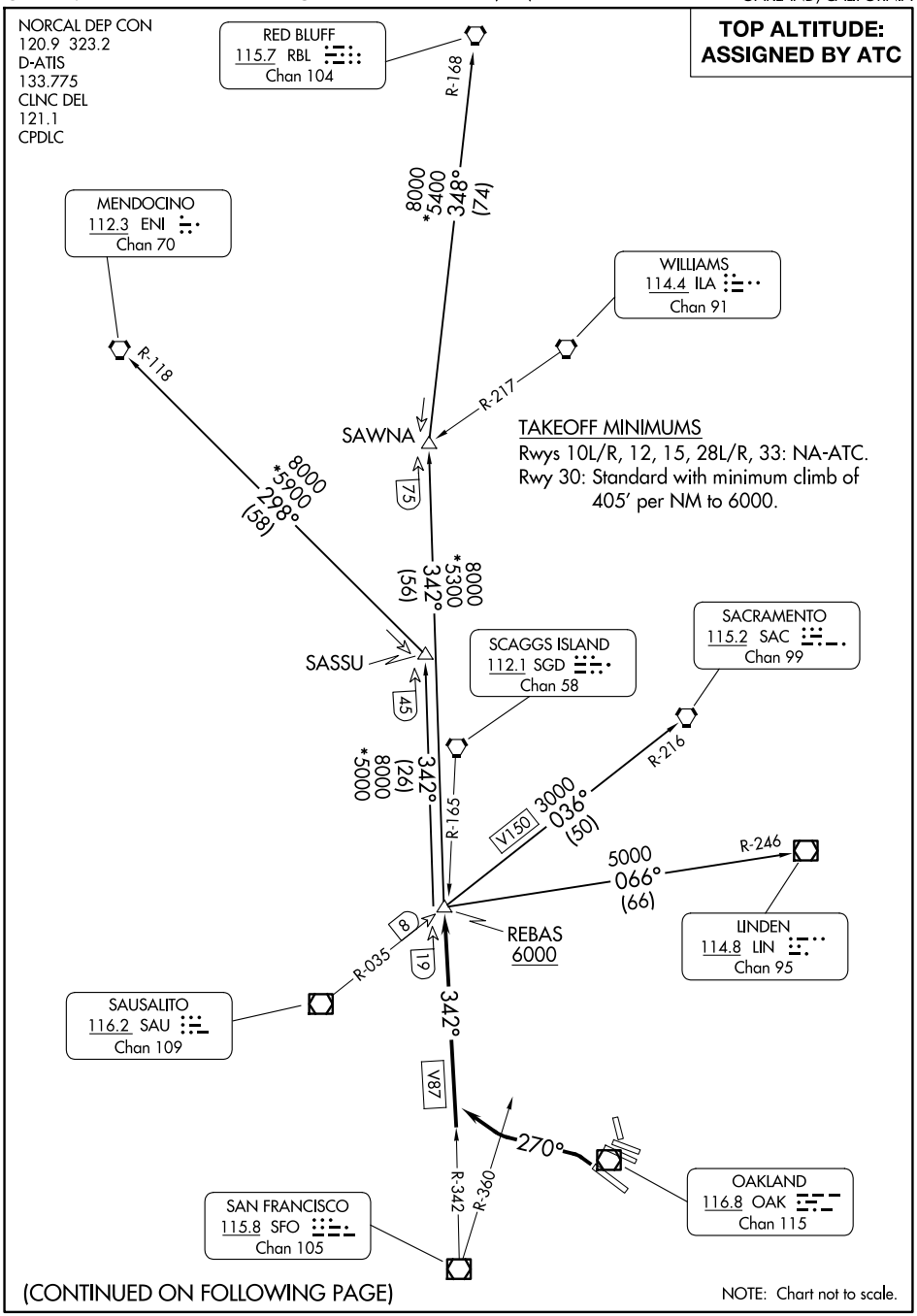
(SLNT3.REBAS) 25275

SILENT THREE DEPARTURE

OAKLAND SAN FRANCISCO BAY (OAK)

AL-294 (FAA)

OAKLAND, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 30: Climbing left turn on heading 270° to V87 (commence right turn at SFO R-360) to REBAS INT/SFO 19 DME. Cross REBAS INT at or above 6000. Thence . . . .

. . . . (transition). Expect filed altitude 10 minutes after departure.

LINDEN TRANSITION (SLNT3.LIN): From over REBAS INT on LIN R-246 to LIN VOR/DME.

MENDOCINO TRANSITION (SLNT3.ENI): From over REBAS INT on SFO R-342 to SASSU INT, then on ENI R-118 to ENI VORTAC.

RED BLUFF TRANSITION (SLNT3.RBL): From over REBAS INT on SFO R-342 to SAWNA INT, then on RBL R-168 to RBL VORTAC.

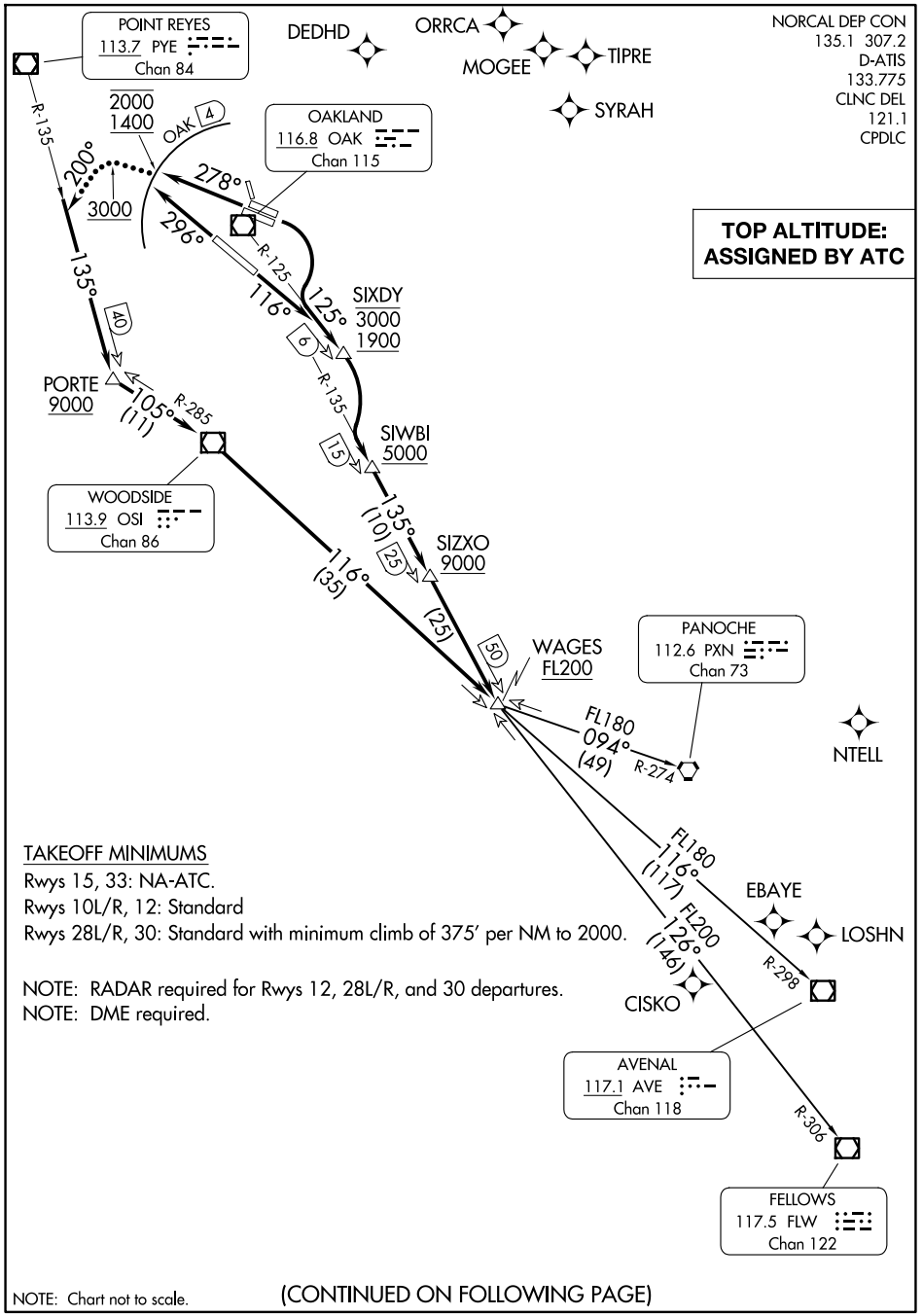
SACRAMENTO TRANSITION (SLNT3.SAC): From over REBAS INT on SAC R-216 to SAC VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(SKYL1.WAGES) 25275

SKYLINE ONE DEPARTURE

OAKLAND SAN FRANCISCO BAY (OAK)
OAKLAND, CALIFORNIA
AL-294 (FAA)



TAKEOFF MINIMUMS

Rwys 15, 33: NA-ATC.
Rwys 10L/R, 12: Standard
Rwys 28L/R, 30: Standard with minimum climb of 375′ per NM to 2000.

NOTE: RADAR required for Rwys 12, 28L/R, and 30 departures.
NOTE: DME required.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 10L/R: Climbing right turn to intercept OAK R-125, to cross SIXDY/OAK VOR/DME 6 DME at or above 1900 and at or below 3000, then climbing right turn to intercept and proceed on the OAK R-135 to cross SIWBI/OAK 15 DME at or above 5000 and to cross SIZXO/OAK 25 DME at or above 9000 and to cross WAGES INT/OAK 50 DME at or above FL200, thence. . . .
TAKEOFF RUNWAY 12: Climb on heading 116° for vectors to assigned route/fix, thence. . . .
TAKEOFF RUNWAYS 28L/R: Climb on heading 278° for vectors to PYE R-135 to cross 4 DME northwest of OAK VOR/DME at or above 1400 and at or below 2000. Intercept and proceed on the PYE R-135 to cross PORTE INT/PYE 40 DME at or above 9000, then on OSI R-285 to OSI VOR/DME, then on OSI R-116 to cross WAGES INT/OSI 35 DME at or above FL200, thence. . . .
TAKEOFF RUNWAY 30: Climb on heading 296° for vectors to assigned route/fix. Cross 4 DME northwest of OAK VOR/DME at or above 1400 and at or below 2000, thence. . . .

. . . .on (transition) or (assigned route) maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS
TAKEOFF RUNWAYS 28L/R and 30: After reaching 3000, turn left heading 200°, intercept and proceed via the PYE R-135. Resume your own navigation.

AVENAL TRANSITION (SKYL1.AVE): From over WAGES INT on OSI R-116 and AVE R-298 to AVE VOR/DME.
FELLOWS TRANSITION (SKYL1.FLW): From over WAGES INT on FLW R-306 to FLW VOR/DME.
PANOCHE TRANSITON (SKYL1.PXN): From over WAGES INT on PXN R-274 to PXN VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026

(SUNNE1.SUNNE) 25275

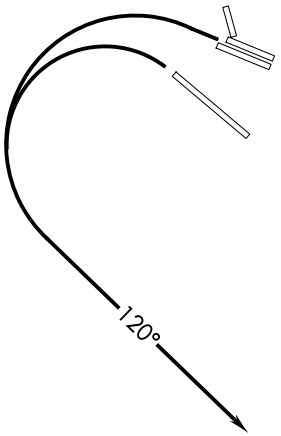
SUNNE ONE DEPARTURE

AL-294 (FAA)

OAKLAND SAN FRANCISCO BAY (OAK)
OAKLAND, CALIFORNIA

NORCAL DEP CON
135.1 307.2
D-ATIS
133.775
CLNC DEL
121.1
CPDLC

TOP ALTITUDE: 5000



TAKEOFF MINIMUMS
Rwys 10L/R, 12, 15, 33: NA-Air Traffic.
Rwys 28L/R, 30: Standard.

SUNNE △

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28L/R, 30: Climbing left turn on heading 120° for vectors to SUNNE. Maintain 5000. Expect higher altitude five minutes after departure.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	N/A
280°	TDZE	N/A
	Apt Elev	218

RNAV (GPS)-A

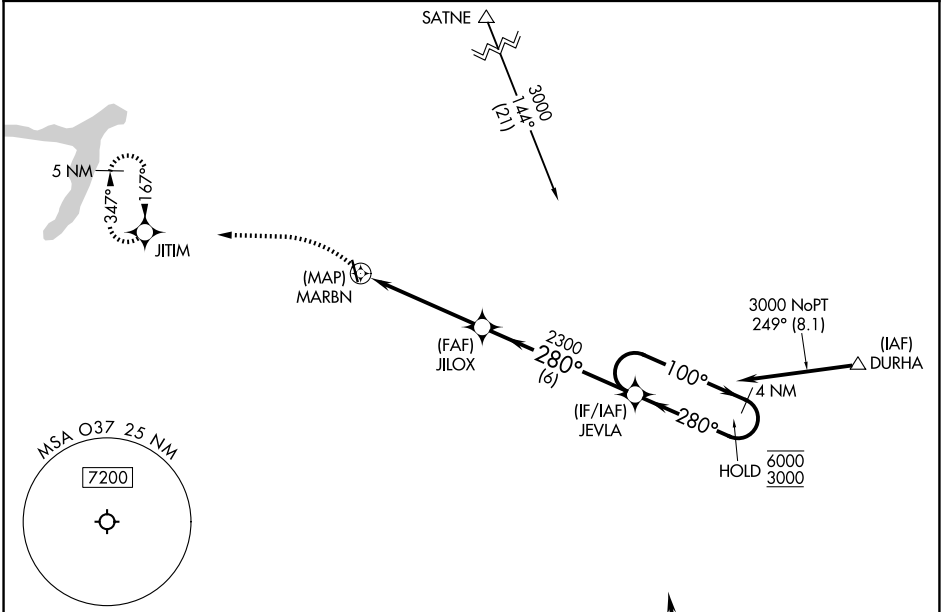
HAIGH FLD (O37)

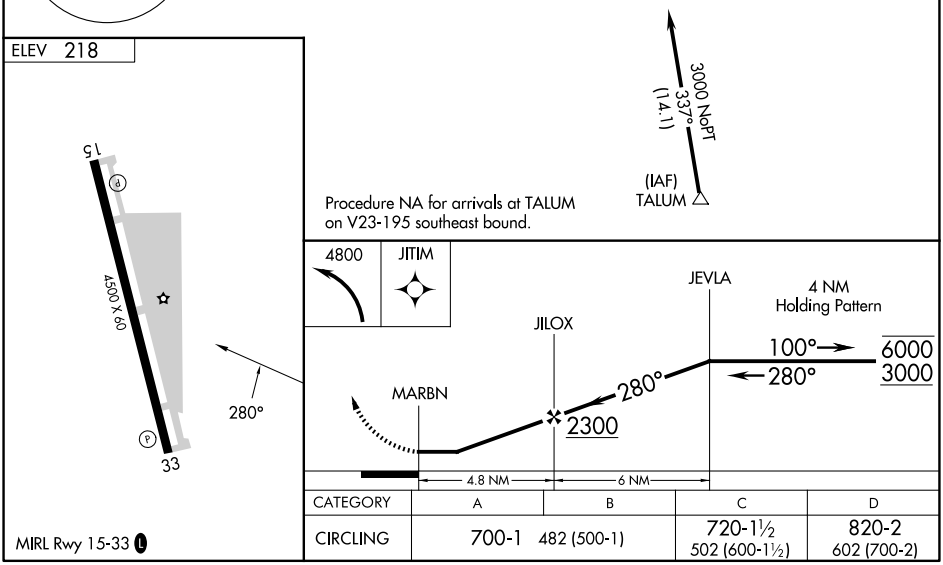
RNP APCH.

T A NA Use Chico altimeter setting; when not received, use Redding altimeter setting and increase all MDA 120 feet. Increase visibility Cat C and D ¼ SM.

MISSED APPROACH: Climbing left turn to 4800 direct JITIM and hold, continue climb-in-hold to 4800.

OAKLAND CENTER	UNICOM
132.2 350.3	122.7 (CTAF) L





CATEGORY	A	B	C	D
CIRCLING	700-1	482 (500-1)	720-1½ 502 (600-1½)	820-2 602 (700-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

OROVILLE, CALIFORNIA AL-5938 (FAA) 26134

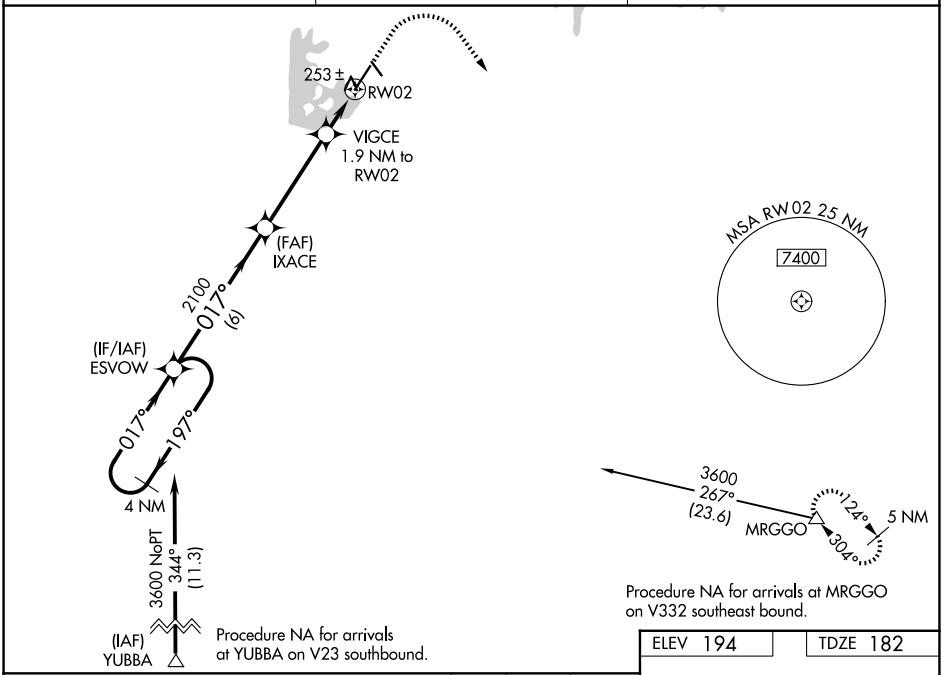
WAAS	APP CRS	Rwy Ldg	6020
CH 49026	017°	TDZE	182
W02A		Apt Elev	194

RNAV (GPS) RWY 2
OROVILLE MUNI (OVE)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C (29°F) or above 54°C (130°F). Circling NA northeast of Rwy 13-31. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 650 then climbing right turn to 6000 direct MRGGO and hold, continue climb-in-hold to 6000.

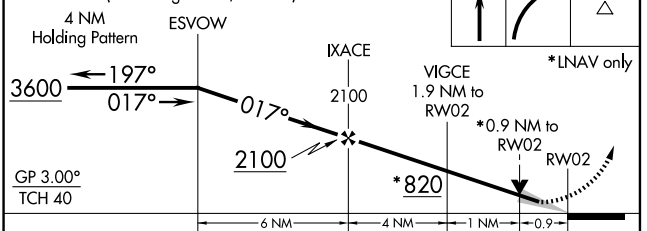
ASOS	NORCAL APP CON	UNICOM
121.425	125.4 259.1	122.8 (CTAF) L



VGSI and RNAV glidepath angles not coincident (VGSI Angle 3.00/TCH 44).

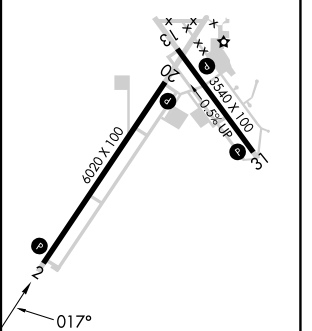
650	6000	MRGGO
↑	↗	△

*LNAV only



CATEGORY	A	B	C	D
LPV DA	432-⅞ 250 (300-⅞)			
LNAV/VNAV DA	432-⅞ 250 (300-⅞)			
LNAV MDA	520-1 338 (400-1)			
CIRCLING	580-1 386 (400-1)	660-1 466 (500-1)	660-1½ 466 (500-1½)	780-2 586 (600-2)

ELEV 194 TDZE 182



REIL Rwys 2 and 20 L
HIRL Rwys 2-20 and 13-31 L

OROVILLE, CALIFORNIA
Amdt 1A 29MAR18

39°29'N-121°37'W

OROVILLE MUNI (OVE)
RNAV (GPS) RWY 2

SW-2, 09 JUL 2026 to 03 SEP 2026

VOR/DME MYV 110.8 Chan 45	APP CRS 338°	Rwy Ldg N/A TDZE N/A Apt Elev 194

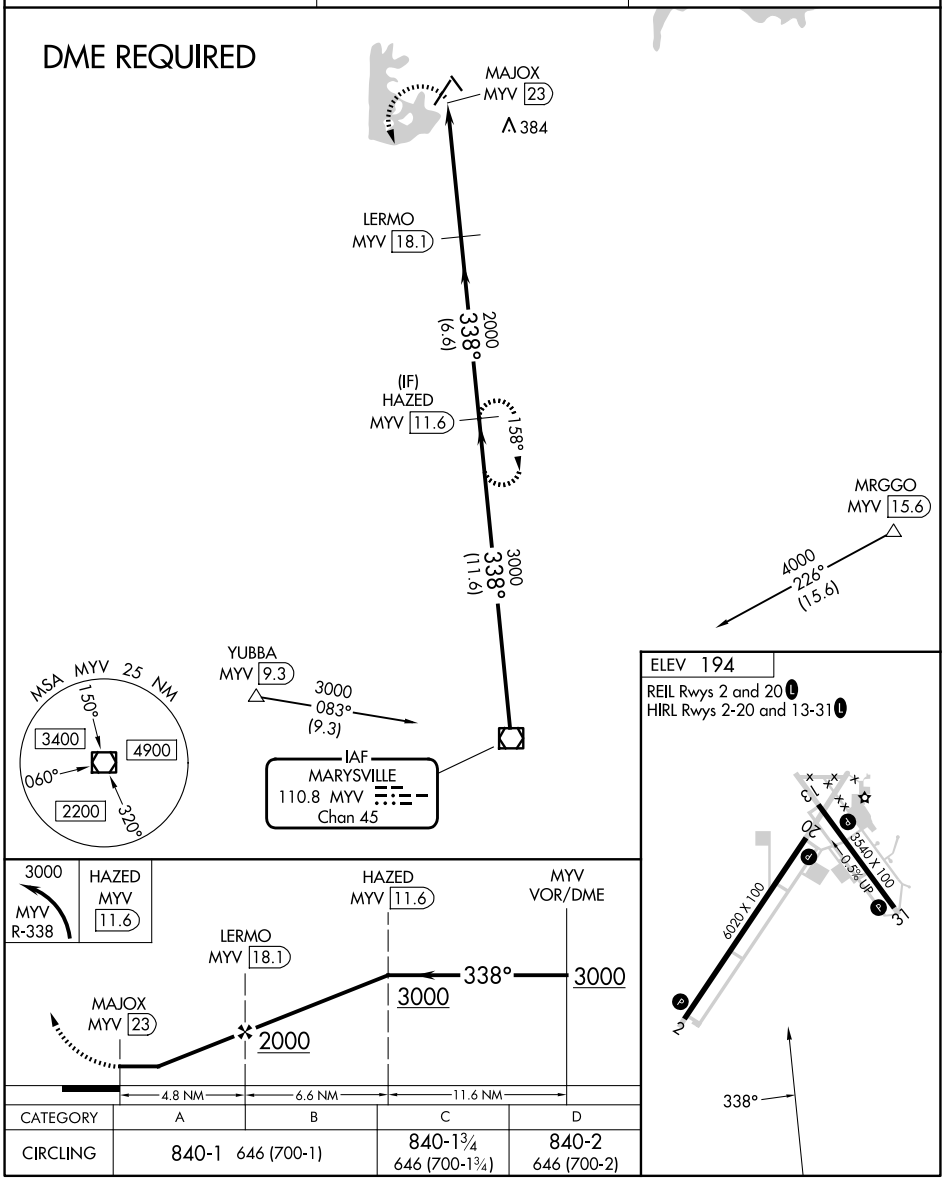
VOR-A
OROVILLE MUNI (OVE)

Circling NA northeast of Rwy 13-31. DME required.

MISSED APPROACH: Climbing left turn to 3000 on MYV VOR/DME R-338 to HAZED/MYV 11.6 DME and hold.

ASOS 121.425	NORCAL APP CON 125.4 259.1	UNICOM 122.8 (CTAF) L

SW-2, 09 JUL 2026 to 03 SEP 2026



CATEGORY	A	B	C	D
CIRCLING	840-1 646 (700-1)		840-1¾ 646 (700-1¾)	840-2 646 (700-2)

PALO ALTO, CALIFORNIA | AL-9216 (FAA) | 26078

RNAV (GPS) RWY 31

PALO ALTO (PAO)

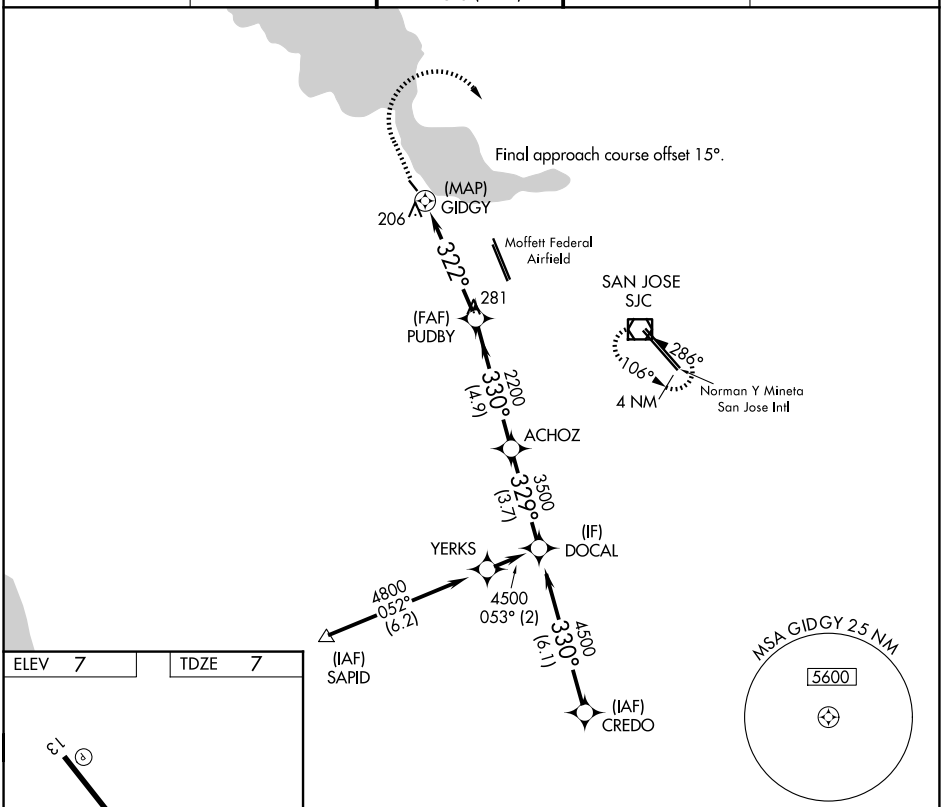
APP CRS	Rwy Ldg	2441
322°	TDZE	7
	Apt Elev	7

RNP APCH.

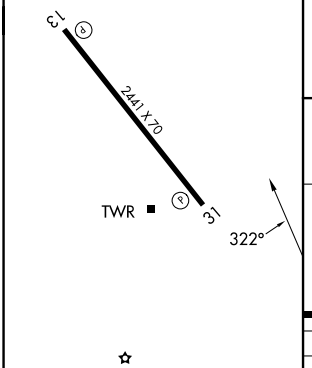
Circling NA southwest of Rwy 13-31. Rwy 31 helicopter visibility reduction below 1 SM NA. Procedure NA at night. When control tower closed, use Norman Y Mineta San Jose Intl altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climb to 1400 then climbing right turn to 3000 direct SJC VOR/DME and hold.

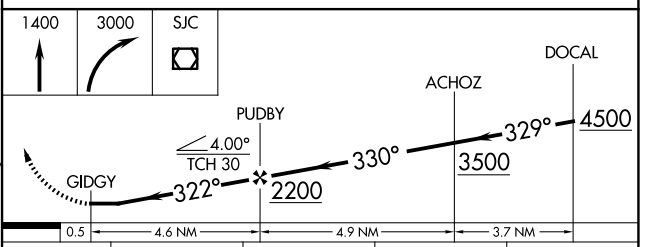
ATIS	NORCAL APP CON	PALO ALTO TOWER★	GND CON	UNICOM
135.275	121.3 270.35	118.6 (CTAF)	125.0	122.95



ELEV 7 | TDZE 7



REIL Rwys 13 and 31
MIRL Rwy 13-31



CATEGORY	A	B	C	D
LNAV MDA	460-1 453 (500-1)		NA	
CIRCLING	460-1 453 (500-1)	520-1 513 (600-1)	NA	

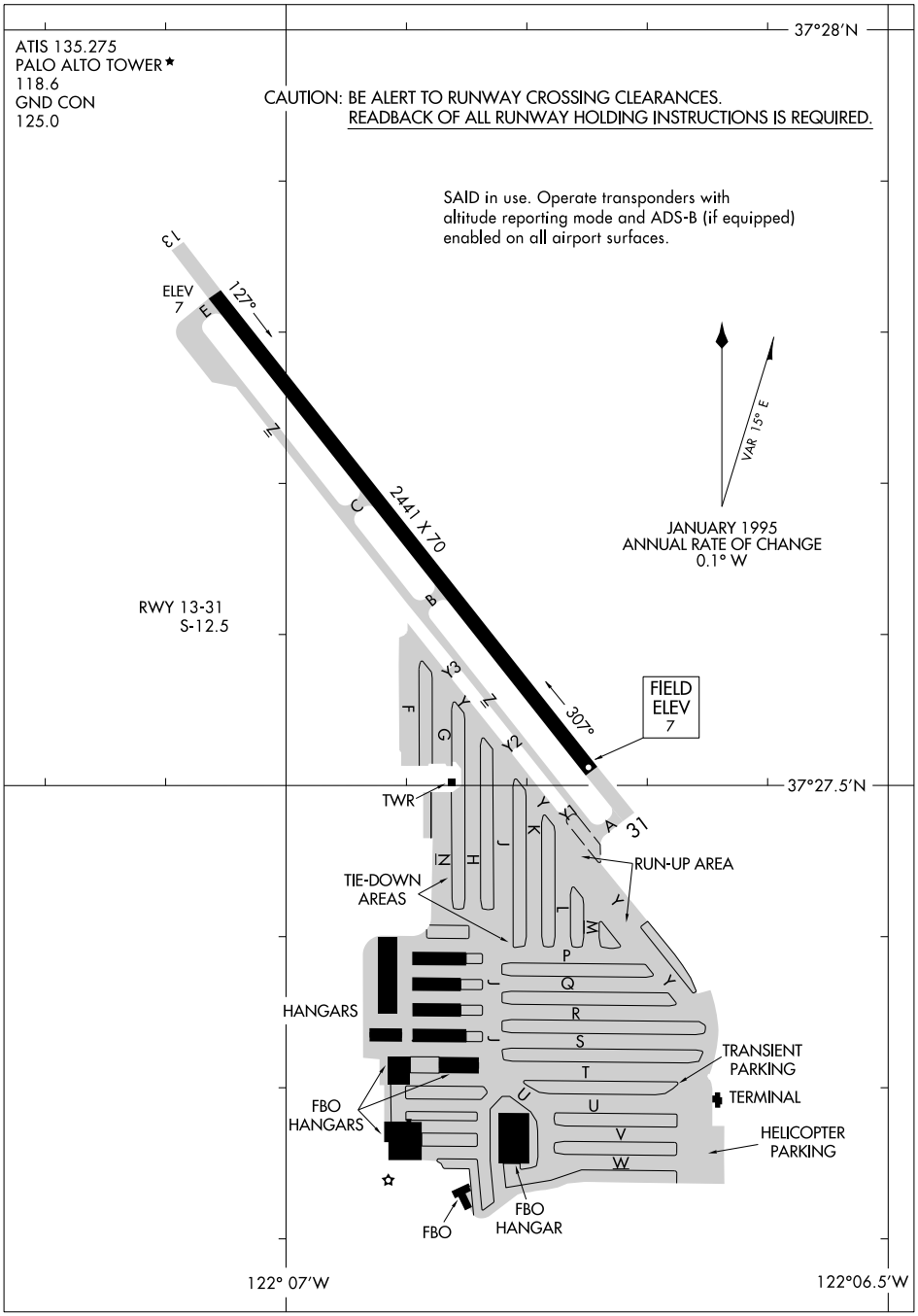
PALO ALTO, CALIFORNIA
Amdt 2 10OCT19

37°28'N-122°07'W

PALO ALTO (PAO)

RNAV (GPS) RWY 31

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026



SW-2, 09 JUL 2026 to 03 SEP 2026

PETALUMA, CALIFORNIA | AL-6838 (FAA) | 26134

RNAV (GPS) RWY 29

PETALUMA MUNI (O69)

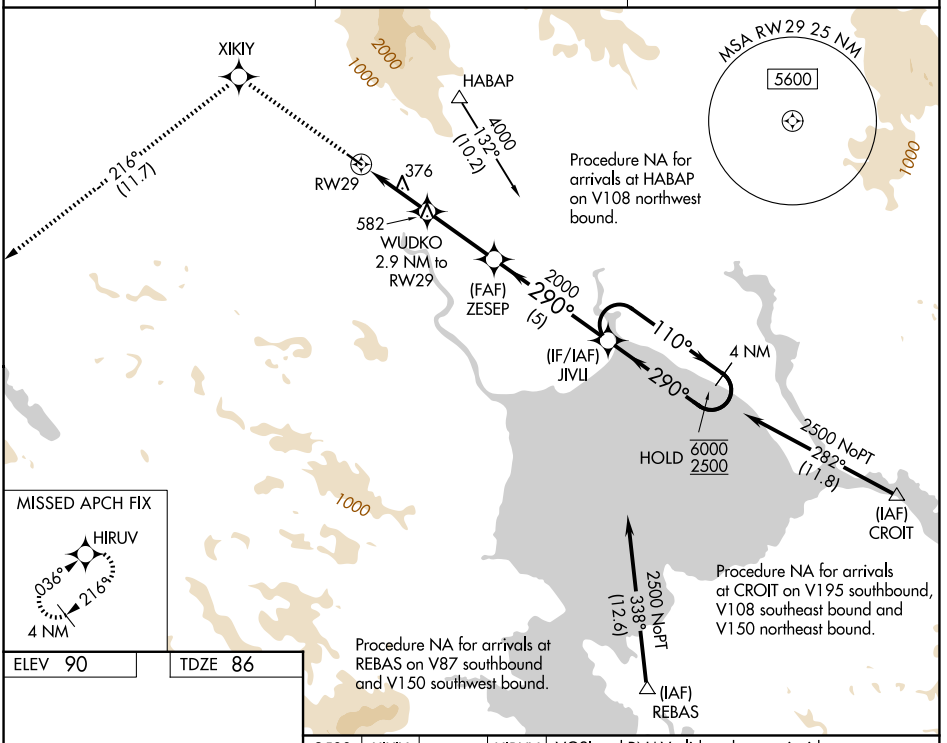
WAAS	APP CRS	Rwy Ldg	3600
CH 49124	290°	TDZE	86
W29A		Apt Elev	90

RNP APCH - GPS.

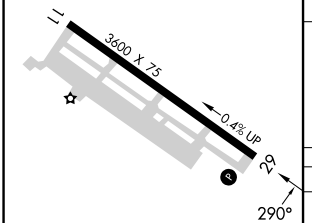
T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. Circling Rwy 11 NA at night.

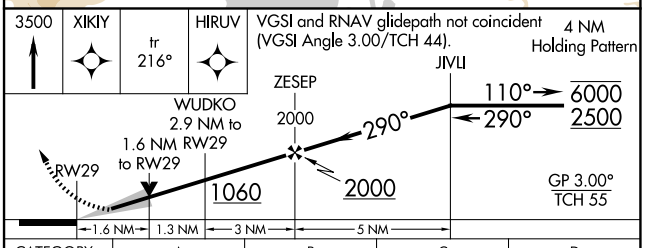
MISSED APPROACH: Climb to 3500 direct XIKIY and on track 216° to HIRUV and hold, continue climb-in-hold to 3500.

AWOS-3P	OAKLAND CENTER	UNICOM
132.325	127.8 353.5	122.7 (CTAF) L



ELEV 90 | TDZE 86





CATEGORY	A	B	C	D
LPV DA	336-¾ 250 (300-¾)		NA	
LNAV/VNAV DA	640-1⅝ 554 (600-1⅝)		NA	
LNAV MDA	640-1 554 (600-1)		NA	
CIRCLING	820-1 730 (800-1)	940-1¼ 850 (900-1¼)	NA	

REIL Rwy 29 L
MIRL Rwy 11-29 L

PETALUMA, CALIFORNIA
Amdt 1 14MAY26

38°15′N-122°36′W

PETALUMA MUNI (O69)

RNAV (GPS) RWY 29

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

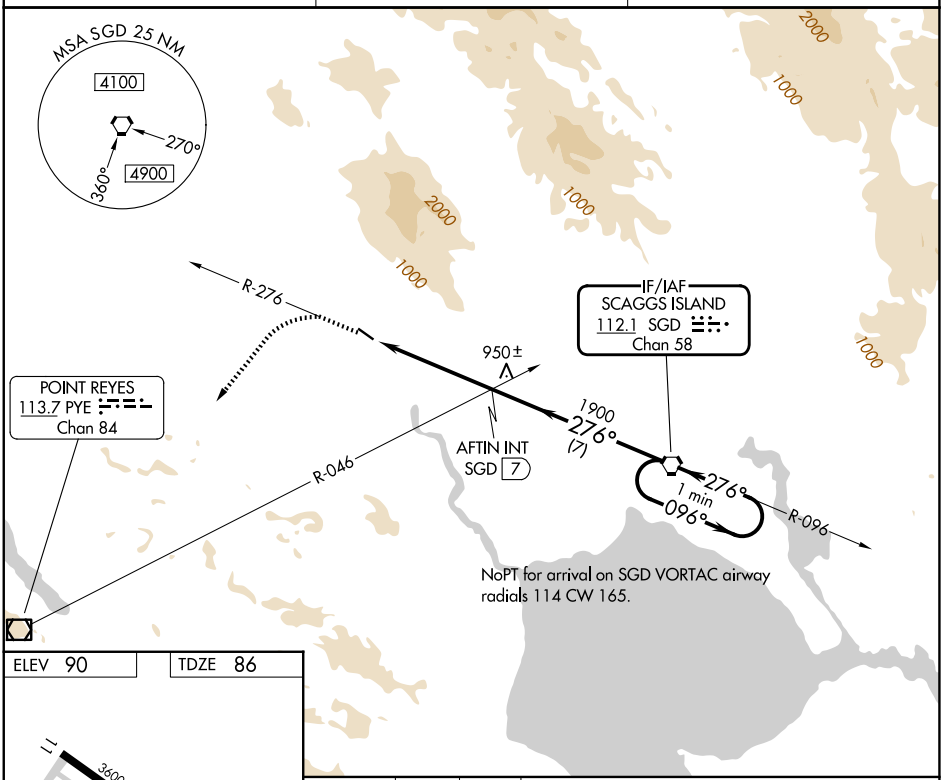
VORTAC SGD	APP CRS	Rwy Ldg	3600
112.1	276°	TDZE	86
Chan 58		Apt Elev	90

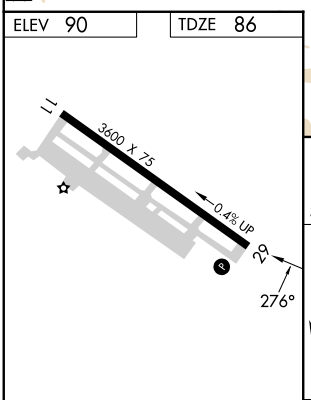
VOR RWY 29
PETALUMA MUNI (O69)

T
NA — Circling Rwy 11 NA at night.

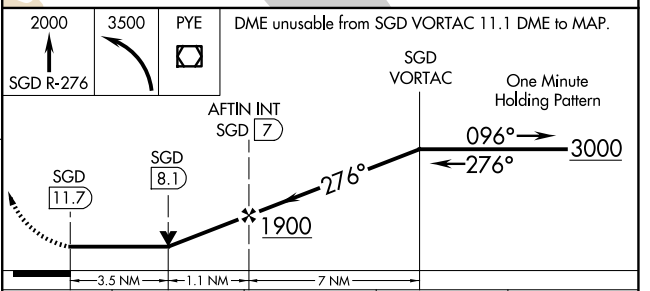
MISSED APPROACH: Climb to 2000 via SGD R-276 then climbing left turn to 3500 direct PYE VOR/DME.

AWOS-3P	OAKLAND CENTER	UNICOM
132.325	127.8 353.5	122.7 (CTAF) L





REIL Rwy 29 L
MIRL Rwy 11-29 L



CATEGORY	A	B	C	D
S-29	1260-1¼ 1174 (1200-1¼)	1260-1½ 1174 (1200-1½)	NA	
CIRCLING	1260-1⅛ 1170 (1200-1⅛)	1260-1½ 1170 (1200-1½)	NA	

FAF to MAP 4.7 NM

Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

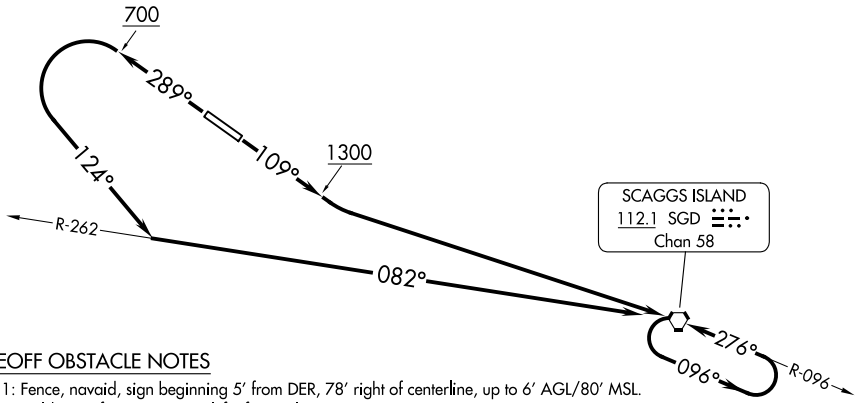
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SCAGGS ISLAND ONE DEPARTURE (OBSTACLE)

OAKLAND CENTER
127.8 353.5
AWOS-3P
132.325
CTAF
122.7

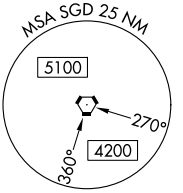
TAKEOFF MINIMUMS

Rwy 11: Standard with minimum climb of 245′/NM to 1500 or 3000-3 for VCOA.
Rwy 29: 300-1½ or standard with minimum climb of 290′/NM to 400.



TAKEOFF OBSTACLE NOTES

Rwy 11: Fence, navaid, sign beginning 5′ from DER, 78′ right of centerline, up to 6′ AGL/80′ MSL.
Building 8′ from DER, 248′ left of centerline, 81′ MSL.
Trees beginning 25′ from DER, 429′ left of centerline, up to 114′ MSL.
Trees beginning 319′ from DER, 399′ left of centerline, up to 120′ MSL.
Tree 1096′ from DER, 778′ right of centerline, 116′ MSL.
Rwy 29: Trees, terrain, building beginning 77′ from DER, 248′ right of centerline, up to 130′ MSL.
Buildings beginning 89′ from DER, 350′ left of centerline, up to 110′ MSL.
Tree, buildings beginning 109′ from DER, 345′ left of centerline, up to 115′ MSL.
Trees, vehicle on road, buildings beginning 165′ from DER, 298′ left of centerline, up to 121′ MSL.
Tree 1092′ from DER, 504′ right of centerline, 143′ MSL.
Trees, poles beginning 1098′ from DER, 13′ right of centerline, up to 162′ MSL.
Tree 1280′ from DER, 122′ left of centerline, 126′ MSL.
Tree 1289′ from DER, 84′ left of centerline, 128′ MSL.
Trees beginning 1298′ from DER, 75′ left of centerline, up to 165′ MSL.
Trees, poles beginning 1364′ from DER, 18′ left of centerline, up to 177′ MSL.
Trees, building beginning 1407′ from DER, 98′ right of centerline, up to 172′ MSL.
Tree 5552′ from DER, 1841′ right of centerline, 257′ MSL.
Trees, poles beginning 1537′ from DER, 182′ right of centerline, up to 176′ MSL.
Trees beginning 5556′ from DER, 1886′ right of centerline, up to 288′ MSL.
Tree 5567′ from DER, 1991′ right of centerline, 289′ MSL.
Tree 1.2 NM from DER, 764′ right of centerline, up to 313′ MSL.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb on heading 109° to 1300, then left turn direct SGD VORTAC, thence. . . .

TAKEOFF RUNWAY 29: Climb on heading 289° to 700, then climbing left turn heading 124° to intercept SGD VORTAC R-262 to SGD. Do not exceed 210K until established direct SGD VORTAC, thence. . . .

VCOA RUNWAY 11: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Petaluma Airport southeast bound at or above 2700, then on SGD VORTAC R-276 to SGD at or above MEA for route of flight.

. . . .continue climb in SGD VORTAC holding pattern to cross SGD VORTAC at or above MEA for route of flight.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Idg	3914
CH 78324	049°	TDZE	2586
W05A		Apt Elev	2586

RNAV (GPS) RWY 5

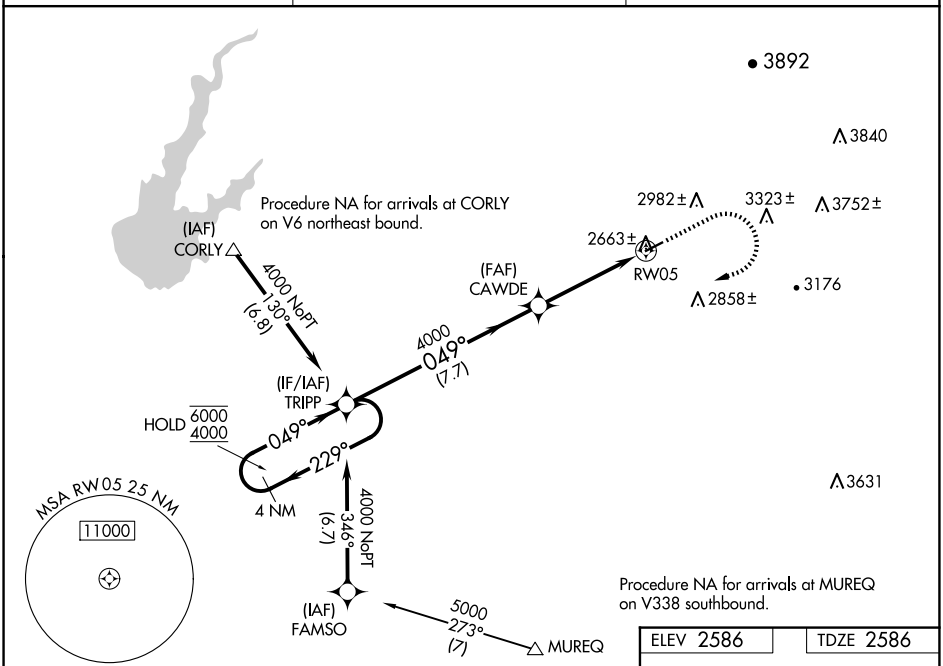
PLACERVILLE (PVF)

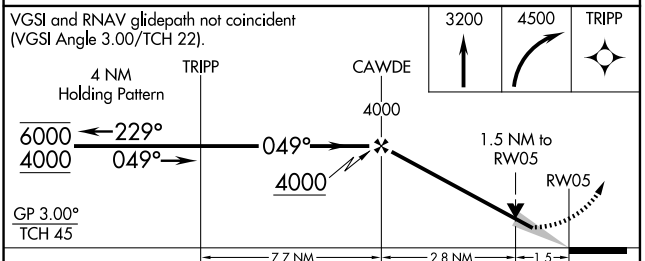
RNP APCH - GPS.

Circling NA northwest of Rwy 5-23. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C or above 54°C.

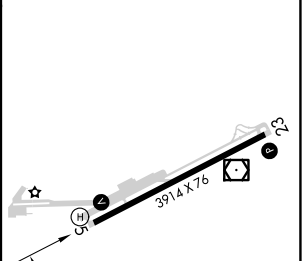
MISSED APPROACH: Climb to 3200 then climbing right turn to 4500 direct TRIPP and hold.

AWOS-3	NORCAL APP CON	UNICOM
128.125	127.4 317.5	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	2966-1 380 (400-1)		NA	
LNAV/VNAV DA	2970-1⅛ 384 (400-1⅛)		NA	
LNAV MDA	3080-1 494 (500-1)		NA	
CIRCLING	3180-1 594 (600-1)	3440-1¼ 854 (900-1¼)	NA	



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

PORTERVILLE, CALIFORNIA AL-569 (FAA) 26134

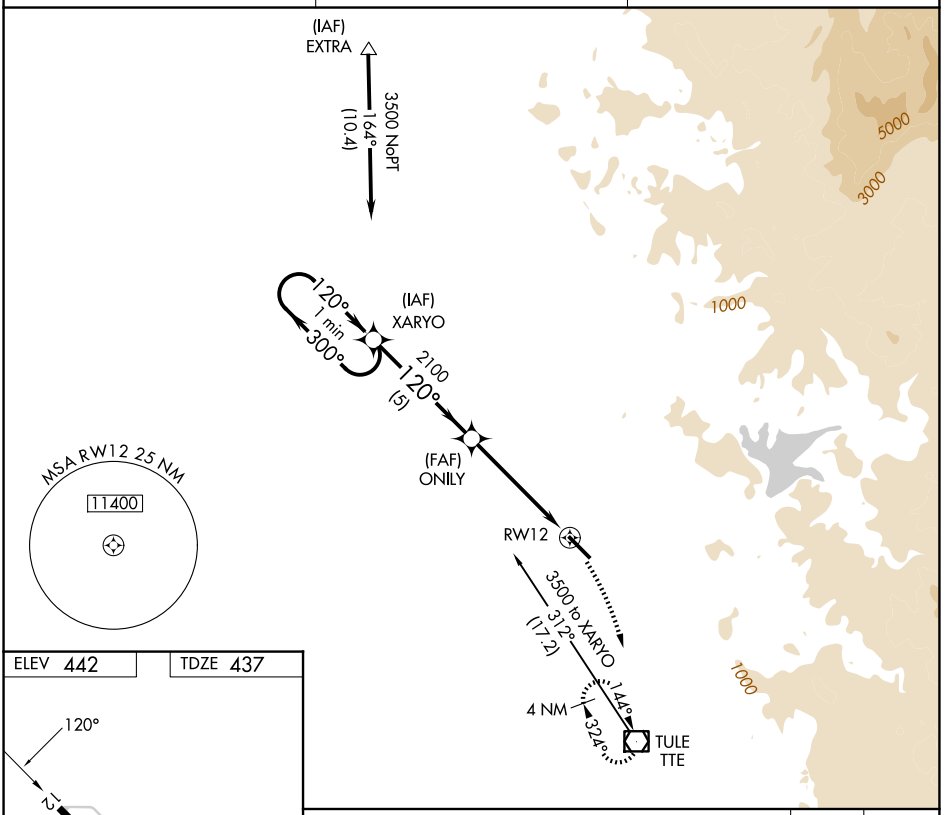
APP CRS	Rwy Ldg	5960
120°	TDZE	437
	Apt Elev	442

GPS RWY 12
PORTERVILLE MUNI (PTV)

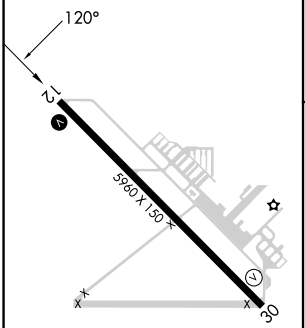
T
NA

MISSED APPROACH: Climbing right turn to 3100 direct TTE VOR/DME and hold.

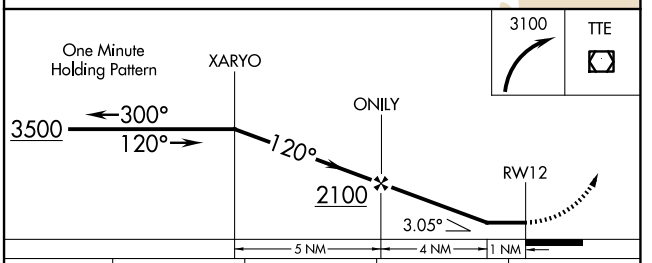
AWOS-3PT	BAKERSFIELD APP CON ★	UNICOM
134.625	119.075	122.8 (CTAF) L



ELEV 442 TDZE 437



REIL Rwy 30
HIRL Rwy 12-30 L



CATEGORY	A	B	C	D
S-12	800-1 363 (400-1)			800-1¼ 363 (400-1¼)
CIRCLING	880-1 438 (500-1)	900-1 458 (500-1)	940-1½ 498 (500-1½)	1080-2 638 (700-2)

PORTERVILLE, CALIFORNIA
Orig-A 30DEC21

36°02'N-119°04'W

PORTERVILLE MUNI (PTV)
GPS RWY 12

SW-2, 09 JUL 2026 to 03 SEP 2026

GPS RWY 30

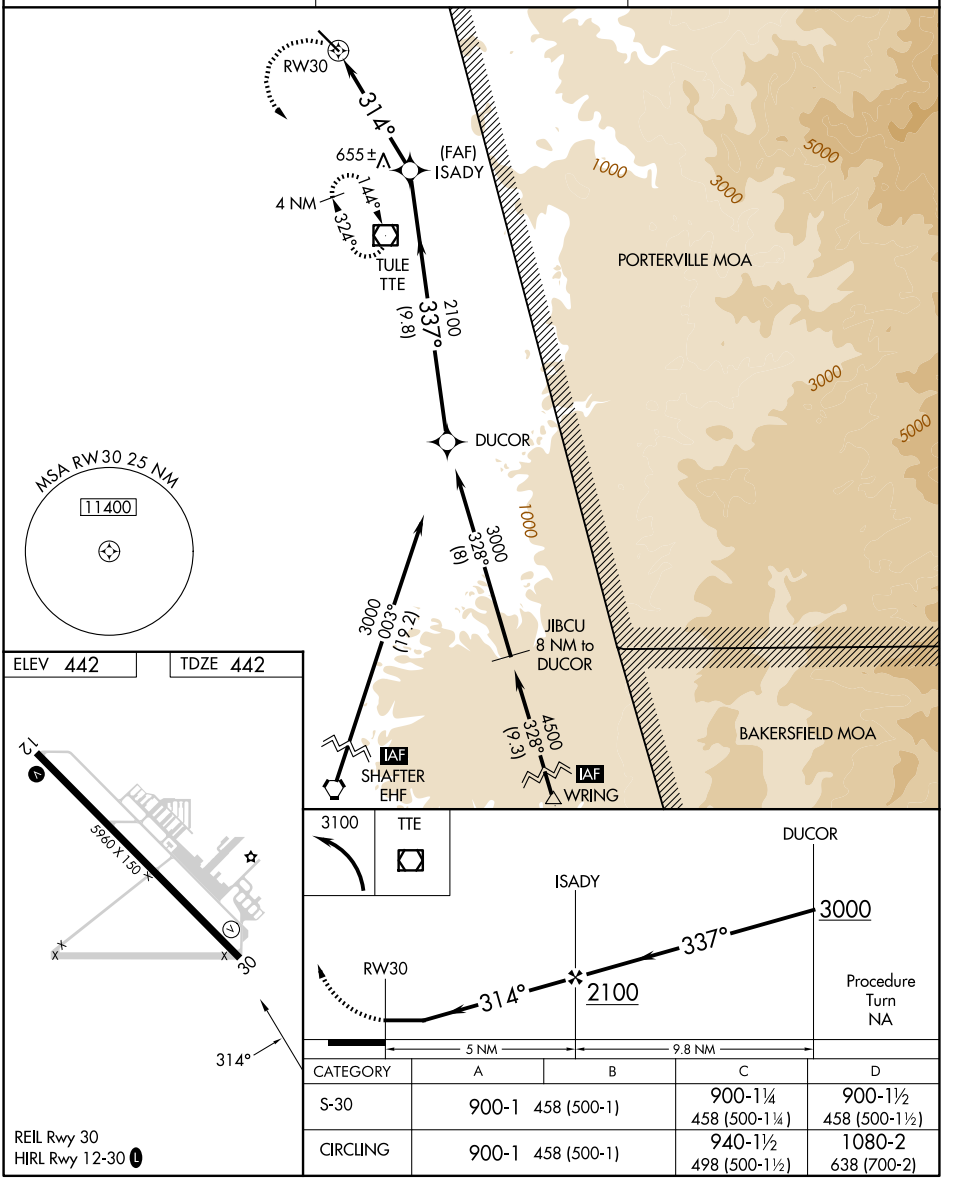
PORTERVILLE MUNI (PTV)

APP CRS	Rwy Ldg	5960
314°	TDZE	442
	Apt Elev	442

IAF ARM APPROACH MODE PRIOR TO IAF.
NA Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing left turn to 3100 direct TTE VOR/DME and hold.

AWOS-3PT	BAKERFIELD APP CON★	UNICOM
134.625	119.075	122.8 (CTAF) L



CATEGORY	A	B	C	D
S-30	900-1 458 (500-1)		900-1¼ 458 (500-1¼)	900-1½ 458 (500-1½)
CIRCLING	900-1 458 (500-1)		940-1½ 498 (500-1½)	1080-2 638 (700-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VOR/DME TTE	APP CRS	Rwy Ldg	N/A
116.25	327°	TDZE	N/A
Chan 109(Y)		Apt Elev	443

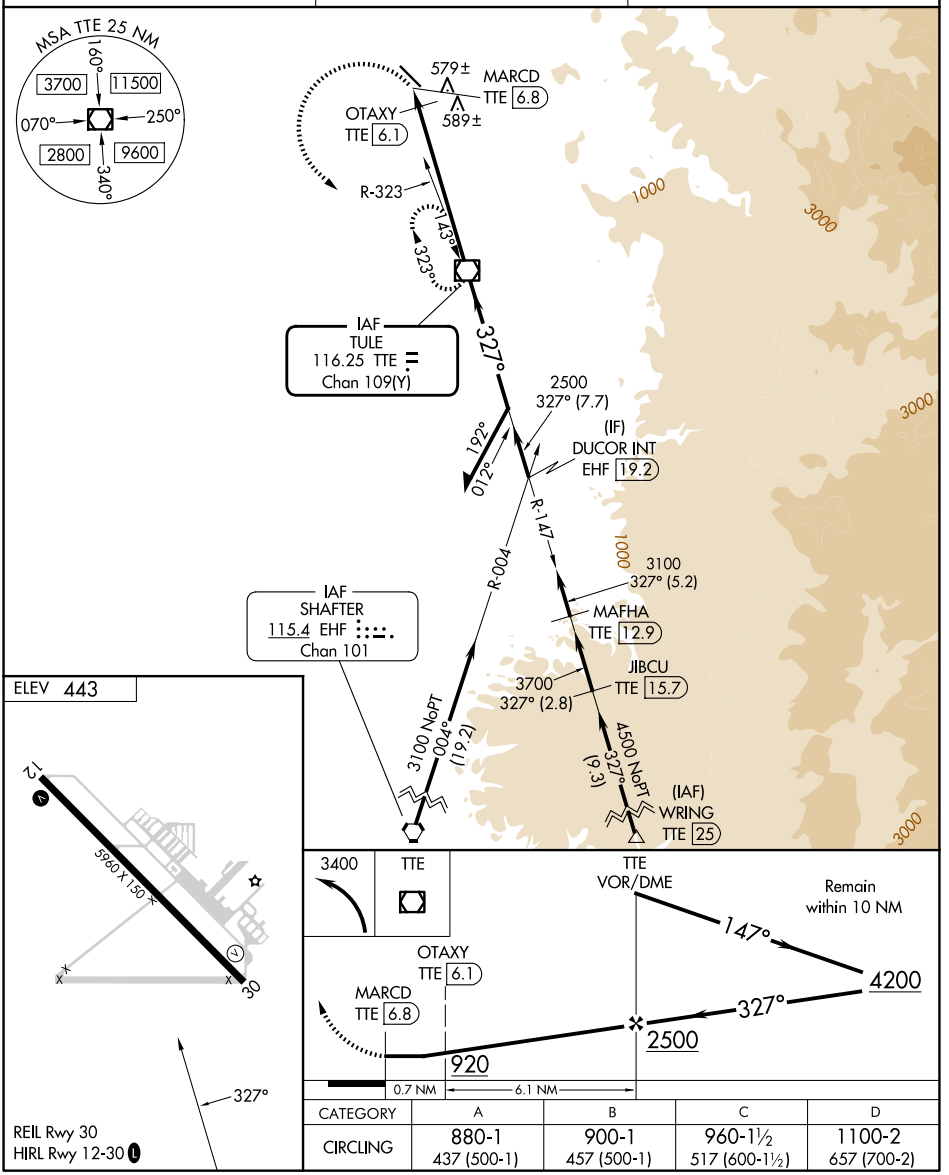
VOR-A

PORTERVILLE MUNI (PTV)

DME required.

MISSED APPROACH: Climbing left turn to 3400 direct TTE VOR/DME and hold.

AWOS-3PT	BAKERFIELD APP CON★	UNICOM
134.625	119.075	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	880-1 437 (500-1)	900-1 457 (500-1)	960-1½ 517 (600-1½)	1100-2 657 (700-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 73008 W15A	APP CRS 151°	Rwy Ldg 5431 TDZE 352 Apt Elev 352

RNAV (GPS) RWY 15

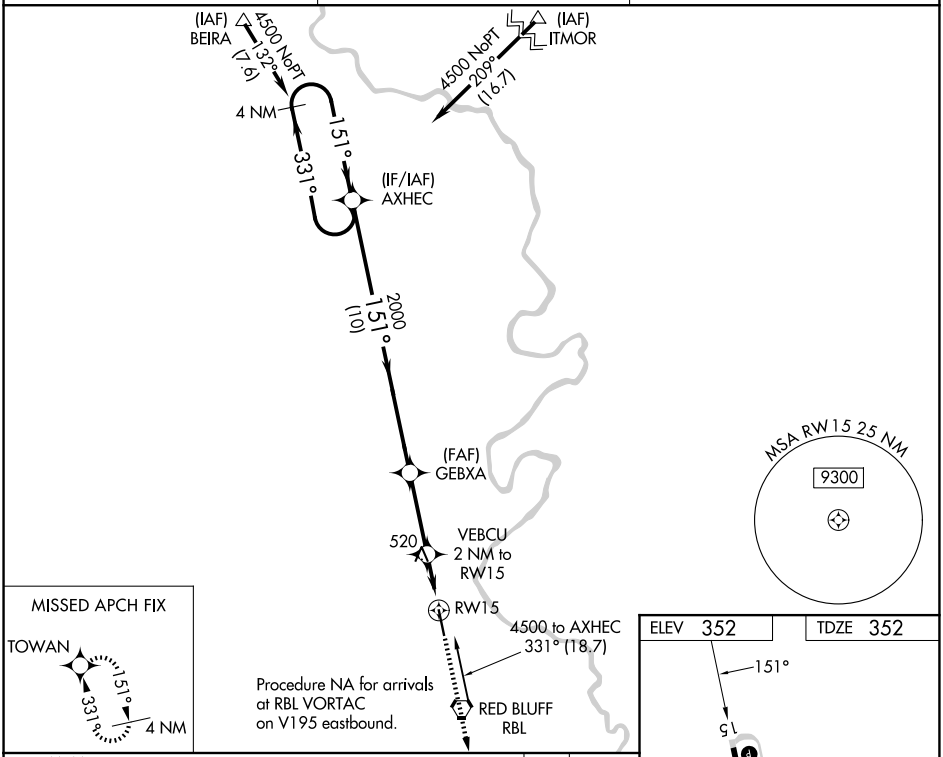
RED BLUFF MUNI (RBL)

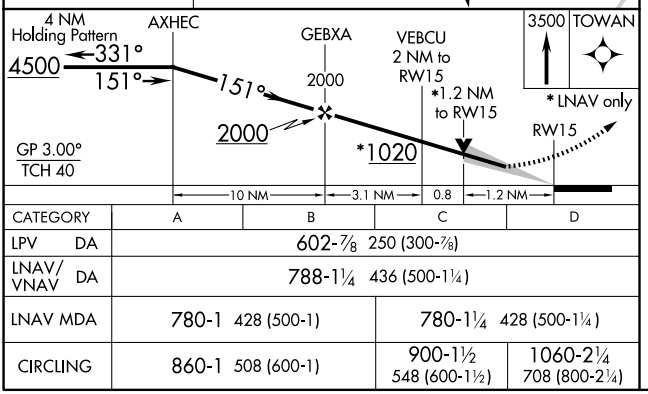
RNP APCH.

Circling to Rwy 33 NA at night. Baro-VNAV and VDP NA when using Redding altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C. When local altimeter setting not received; use Redding altimeter setting and increase LPV DA to 674 feet and increase LNAV/VNAV DA to 860 feet and increase visibility all Cats ⅛ SM; increase all MDAs 80 feet and LNAV visibility Cats C/D ⅛ SM and Circling visibility Cats C/D ¼ SM.

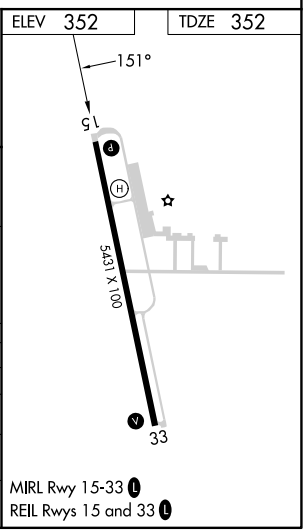
MISSED APPROACH: Climb to 3500 direct TOWAN and hold.

ASOS	OAKLAND CENTER	UNICOM
120.775	132.2 350.3	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	602-⅞ 250 (300-⅞)			
LNAV/VNAV DA	788-1¼ 436 (500-1¼)			
LNAV MDA	780-1 428 (500-1)		780-1¼ 428 (500-1¼)	
CIRCLING	860-1 508 (600-1)		900-1½ 548 (600-1½)	1060-2¼ 708 (800-2¼)



MIRL Rwy 15-33 L
REIL Rwys 15 and 33 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 33

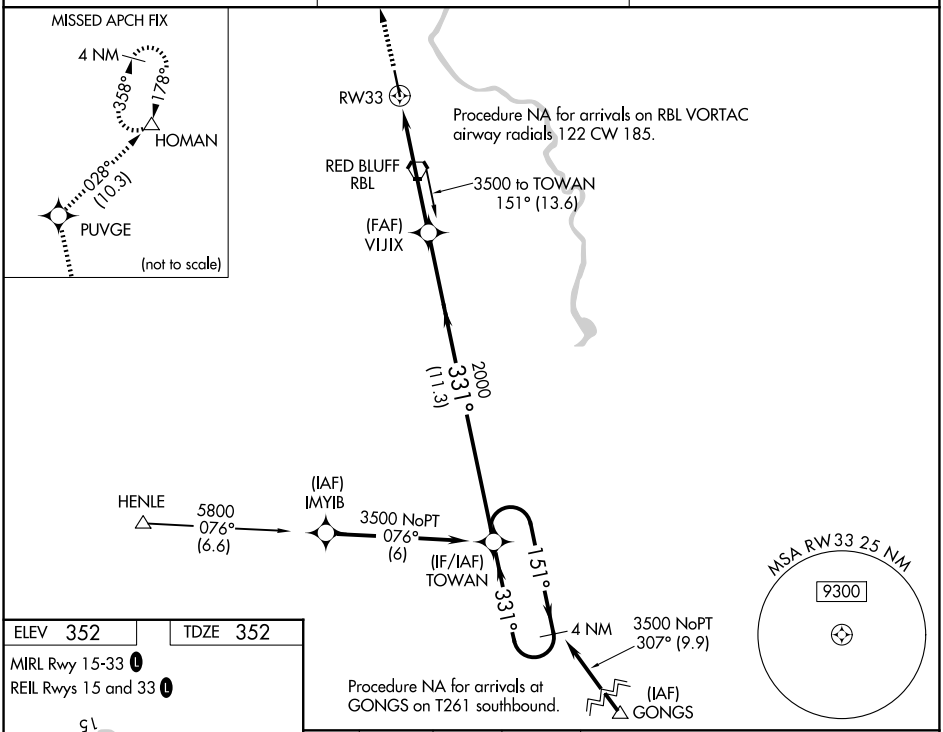
RED BLUFF MUNI (RBL)

WAAS CH 42609 W33A	APP CRS 331°	Rwy Ldg 5431 TDZE 352 Apt Elev 352

Baro-VNAV NA when using Redding altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Redding altimeter setting and increase all DA/MDA 80 feet and increase LPV all Cats visibility ¼ SM, LNAV/VNAV all Cats visibility ¼ SM, LNAV Cat C visibility ¼ SM and Circling Cats C and D visibility ¼ SM.

MISSED APPROACH: Climb to 4000 direct PUVGE and track 028° to HOMAN and hold.

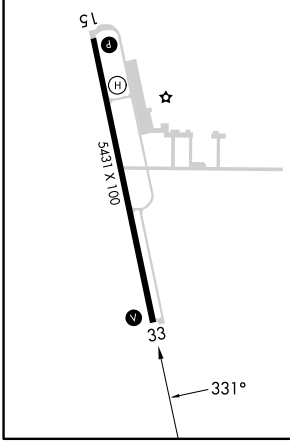
ASOS	OAKLAND CENTER	UNICOM
120.775	132.2 350.3	123.0 (CTAF) L

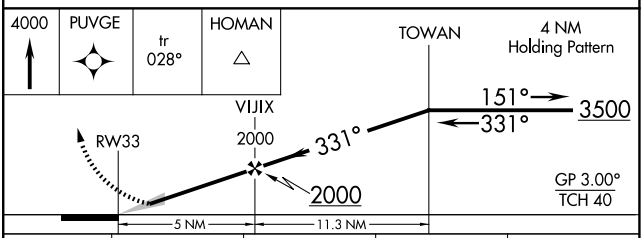


ELEV 352	TDZE 352

MIRL Rwy 15-33 L

REIL Rwys 15 and 33 L





CATEGORY	A	B	C	D
LPV DA	602-1 250 (300-1)			
LNAV/VNAV DA	718-1¼ 366 (400-1¼)			
LNAV MDA	780-1 428 (500-1)		780-1¼ 428 (500-1¼)	780-1½ 428 (500-1½)
CIRCLING	860-1 508 (600-1)		900-1½ 548 (600-1½)	1060-2¼ 708 (800-2¼)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VORTAC RBL	APP CRS	Rwy Ldg 5431
115.7	149°	TDZE 352
Chan 104		Apt Elev 352

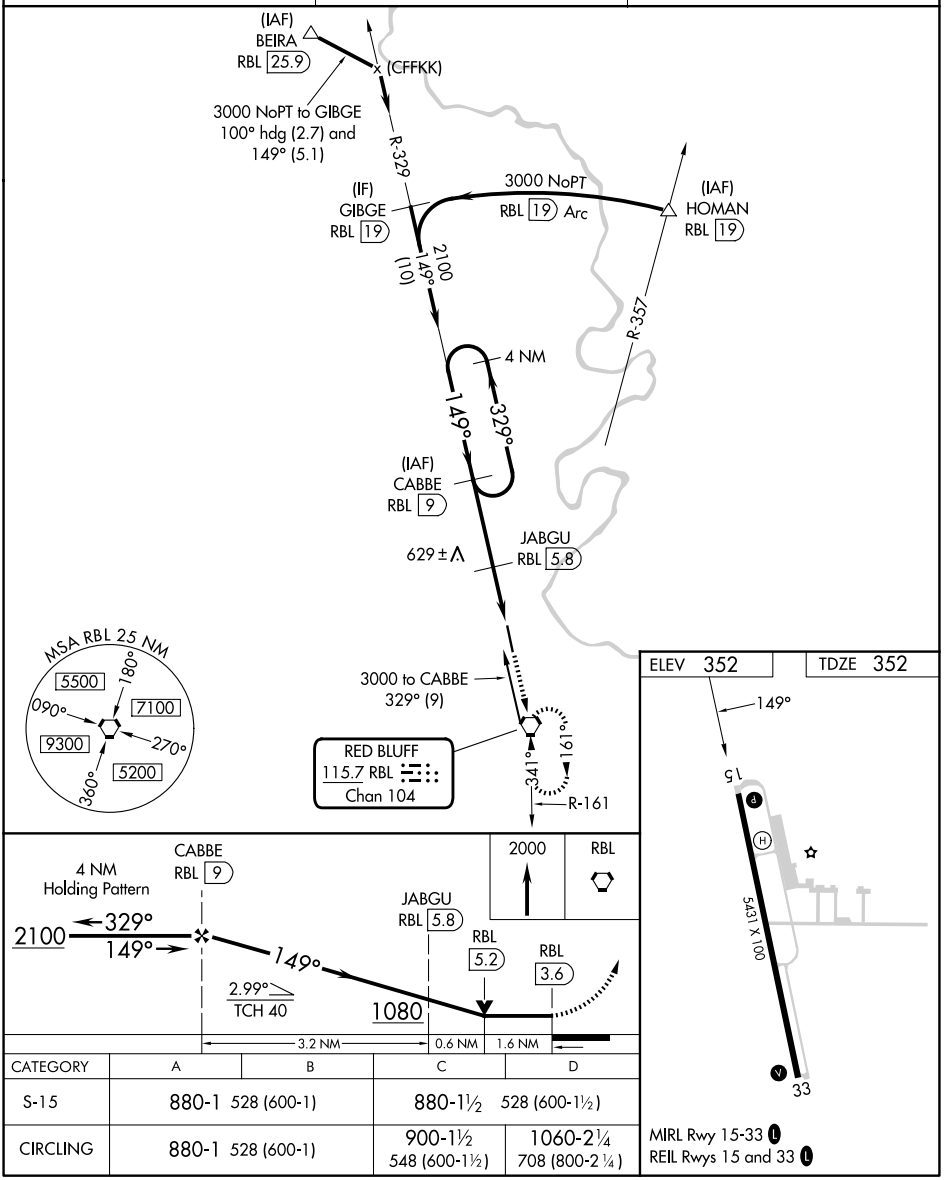
VOR/DME RWY 15

RED BLUFF MUNI (RBL)

When local altimeter setting not received, use Redding altimeter setting and increase all MDAs and all Cat C/D visibility ¼ SM. VDP NA with Redding altimeter setting.

MISSED APPROACH: Climb to 2000 direct RBL VORTAC and hold.

ASOS	OAKLAND CENTER	UNICOM
120.775	132.2 350.3	123.0 (CTAF) L



CATEGORY	A	B	C	D
S-15	880-1 528 (600-1)		880-1½ 528 (600-1½)	
CIRCLING	880-1 528 (600-1)		900-1½ 548 (600-1½)	1060-2¼ 708 (800-2¼)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RED BLUFF, CALIFORNIA | AL-344 (FAA) | 25275

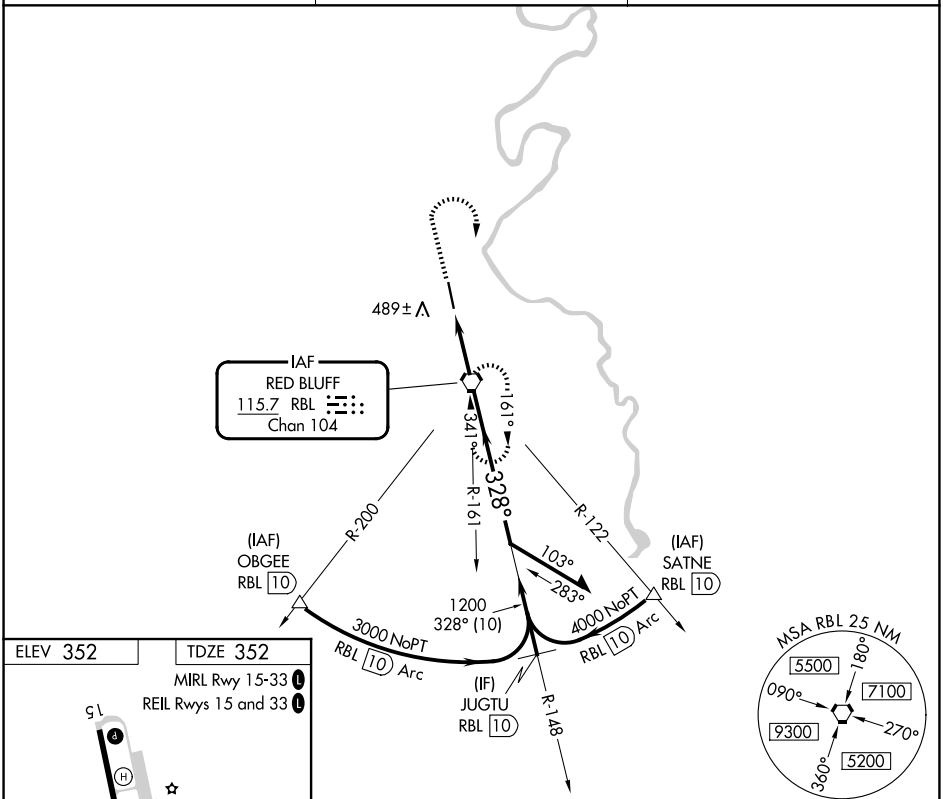
VORTAC RBL	APP CRS	Rwy Ldg	5431
115.7	328°	TDZE	352
Chan 104		Apt Elev	352

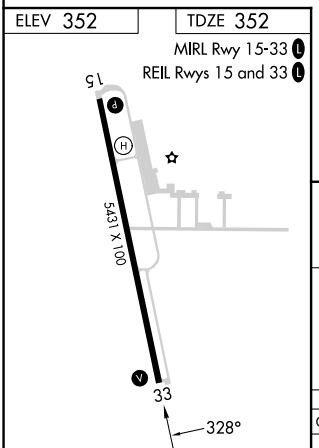
VOR RWY 33
RED BLUFF MUNI (RBL)

When local altimeter setting not received, use Redding altimeter setting and increase all MDAs 80 feet and all Cat C/D visibilities ¼ SM.

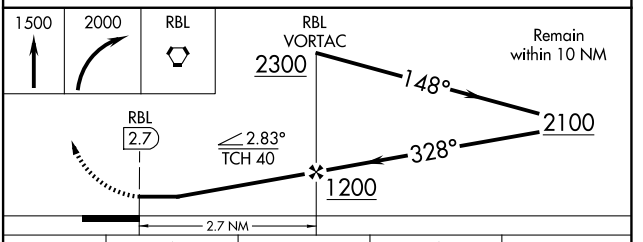
MISSED APPROACH: Climb to 1500, then climbing right turn to 2000 direct RBL VORTAC and hold.

ASOS	OAKLAND CENTER	UNICOM
120.775	132.2 350.3	123.0 (CTAF) L





Knots	60	90	120	150	180
Min:Sec	2:42	1:48	1:21	1:05	0:54



CATEGORY	A	B	C	D
S-33	740-1 388 (400-1)			740-1¼ 388 (400-1¼)
CIRCLING	880-1 528 (600-1)		900-1½ 548 (600-1½)	1060-2¼ 708 (800-2¼)

RED BLUFF, CALIFORNIA
Amdt 8B 23APR20

40°09′N-122°15′W

RED BLUFF MUNI (RBL)
VOR RWY 33

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	N/A
166°	TDZE	N/A
	Apt Elev	723

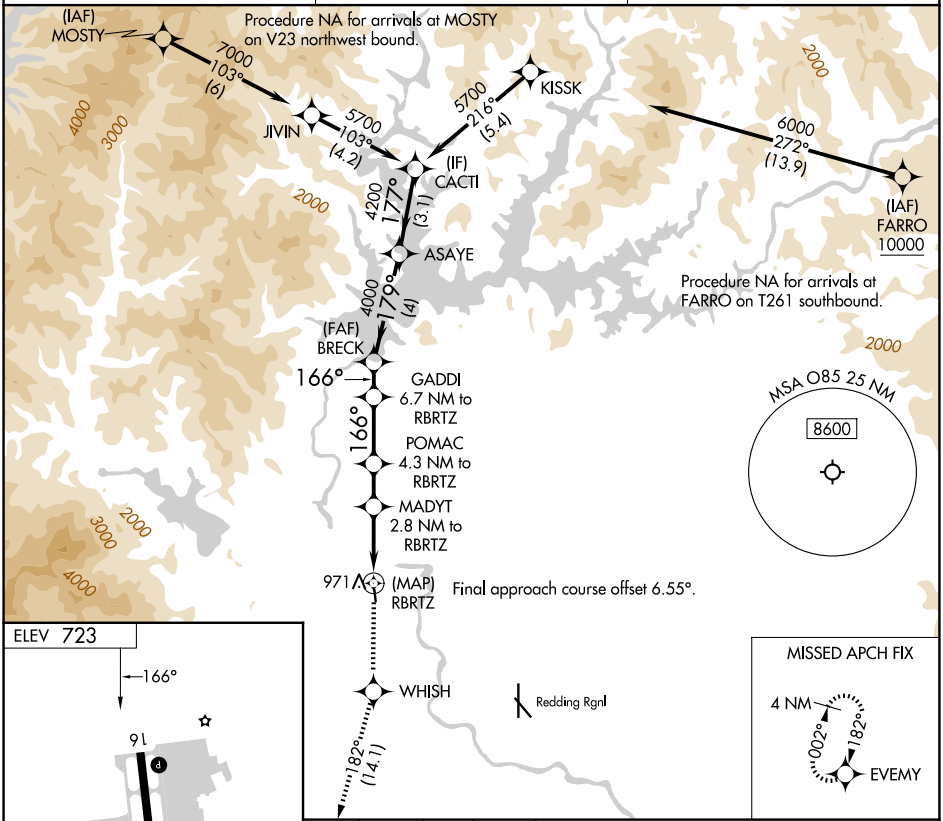
RNAV (GPS)-A
BENTON FLD (085)

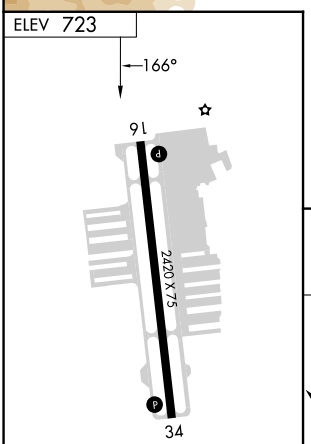
RNP APCH - GPS.

T NA Procedure NA at night. Rwy 16, 34 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Redding Rgnl altimeter setting and increase all MDAs 60 feet.

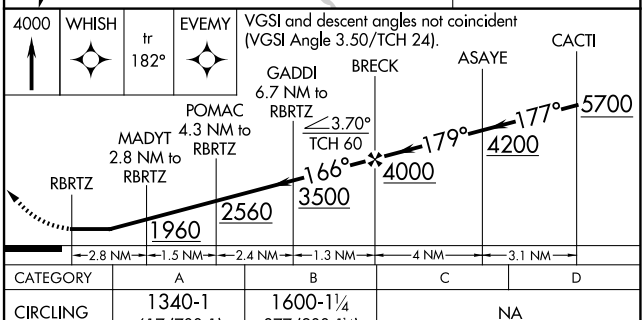
MISSED APPROACH: Climb to 4000 direct WHISH and on track 182° to EVEMY and hold.

AWOS-2	OAKLAND CENTER	UNICOM
118.675	132.2 350.3	122.8 (CTAF) L





MIRL Rwy 16-34 L



CATEGORY	A	B	C	D
CIRCLING	1340-1 617 (700-1)	1600-1¼ 877 (900-1¼)	NA	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

REDDING, CALIFORNIA AL-10033 (FAA) 26022

APP CRS	Rwy Ldg	N/A
340°	TDZE	N/A
	Apt Elev	723

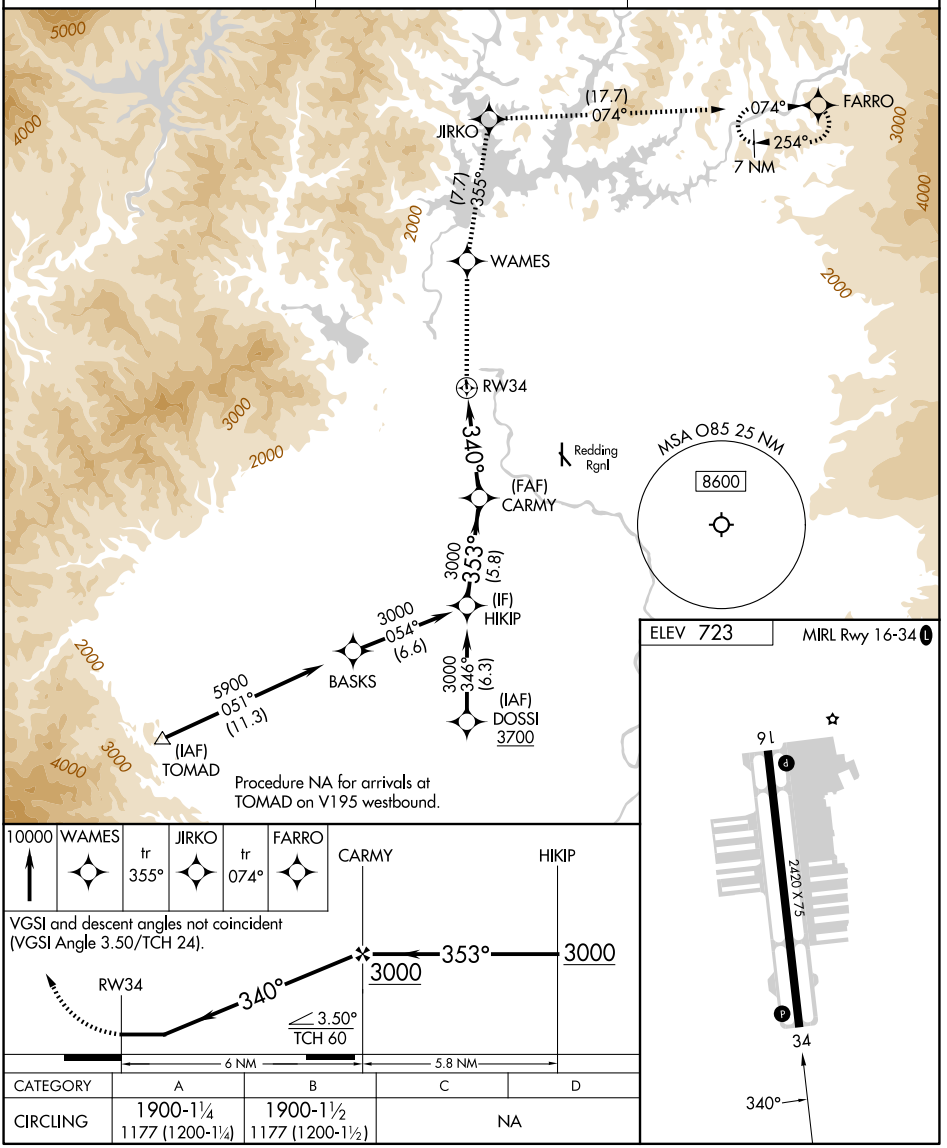
RNAV (GPS)-B
BENTON FLD (O85)

RNP APCH - GPS.

NA Procedure NA at night. Rwy 16, 34 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Redding Rgnl altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climb to 10000 direct WAMES and on track 355° to JIRKO and on track 074° to FARRO and hold, continue climb-in-hold to 10000.

AWOS-2	OAKLAND CENTER	UNICOM
118.675	132.2 350.3	122.8 (CTAF) L



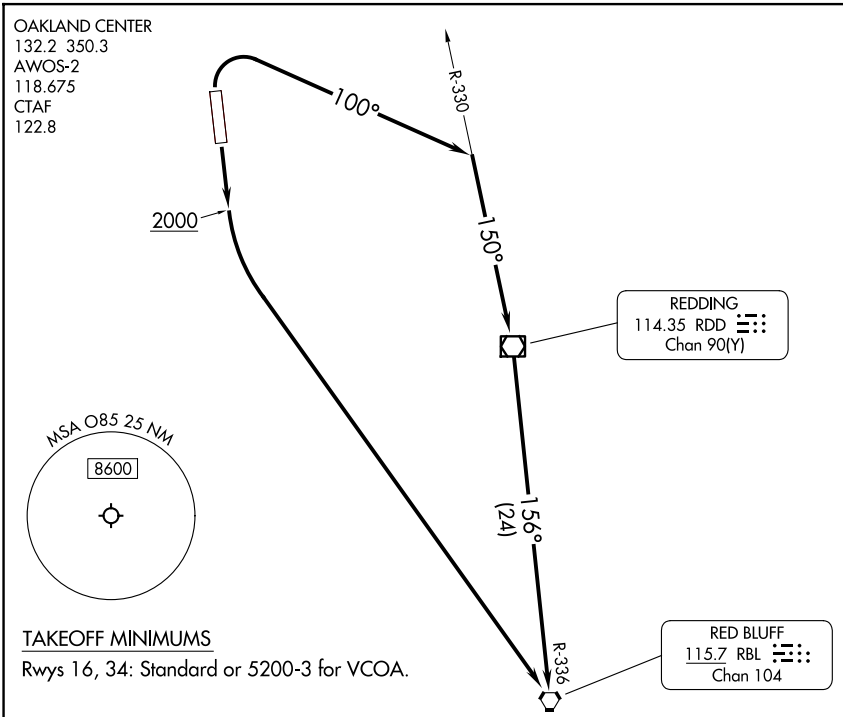
10000	WAMES	tr 355°	JIRKO	tr 074°	FARRO

CATEGORY	A	B	C	D
CIRCLING	1900-1¼ 1177 (1200-1¼)	1900-1½ 1177 (1200-1½)	NA	

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

REDDING ONE DEPARTURE (OBSTACLE)



TAKEOFF MINIMUMS

Rwys 16, 34: Standard or 5200-3 for VCOA.

TAKEOFF OBSTACLE NOTES

Rwy 16: Trees beginning 75′ from DER, 319′ left of centerline, up to 30′ AGL/732′ MSL.
Vehicle on road 273′ from DER, 537′ right of centerline, 730′ MSL.
Tree 771′ from DER, 613′ right of centerline, 747′ MSL.
Tree 1105′ from DER, 324′ right of centerline, 755′ MSL.
Trees beginning 1207′ from DER, 162′ right of centerline, up to 51′ AGL/762′ MSL.
Rwy 34: Building 2′ from DER, 455′ left of centerline, 724′ MSL.
Pole, sign beginning 63′ from DER, 179′ right of centerline, up to 749′ MSL.
Navaid, trees, pole beginning 84′ from DER, 260′ left of centerline, up to 748′ MSL.
Trees, fence, poles beginning 116′ from DER, 182′ right of centerline, up to 46′ AGL/765′ MSL.
Trees, pole beginning 373′ from DER, 224′ left of centerline, up to 57′ AGL/753′ MSL.
Trees beginning 623′ from DER, 440′ right of centerline, up to 775′ MSL.
Pole, trees beginning 750′ from DER, 19′ left of centerline, up to 754′ MSL.
Trees beginning 1766′ from DER, 870′ left of centerline, up to 779′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16: Climb to 2000, then climbing left turn direct RBL VORTAC.
TAKEOFF RUNWAY 34: Climbing right turn on heading 100° to intercept RDD VOR/DME R-330 to RDD VOR/DME, then on RDD VOR/DME R-156 to intercept RBL VORTAC R-336 to RBL VORTAC.

VCOA ALL RUNWAYS: Obtain ATC approval for VCOA when requesting IFP clearance. Climb in visual conditions to cross Benton Fld airport at or above 5800 before proceeding on course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS or LOC RWY 35

REDDING RGNL (RDD)

LOC/DME I-RDD	APP CRS	Rwy Ldg 6997
108.7	346°	TDZE 499
Chan 24		Apt Elev 505

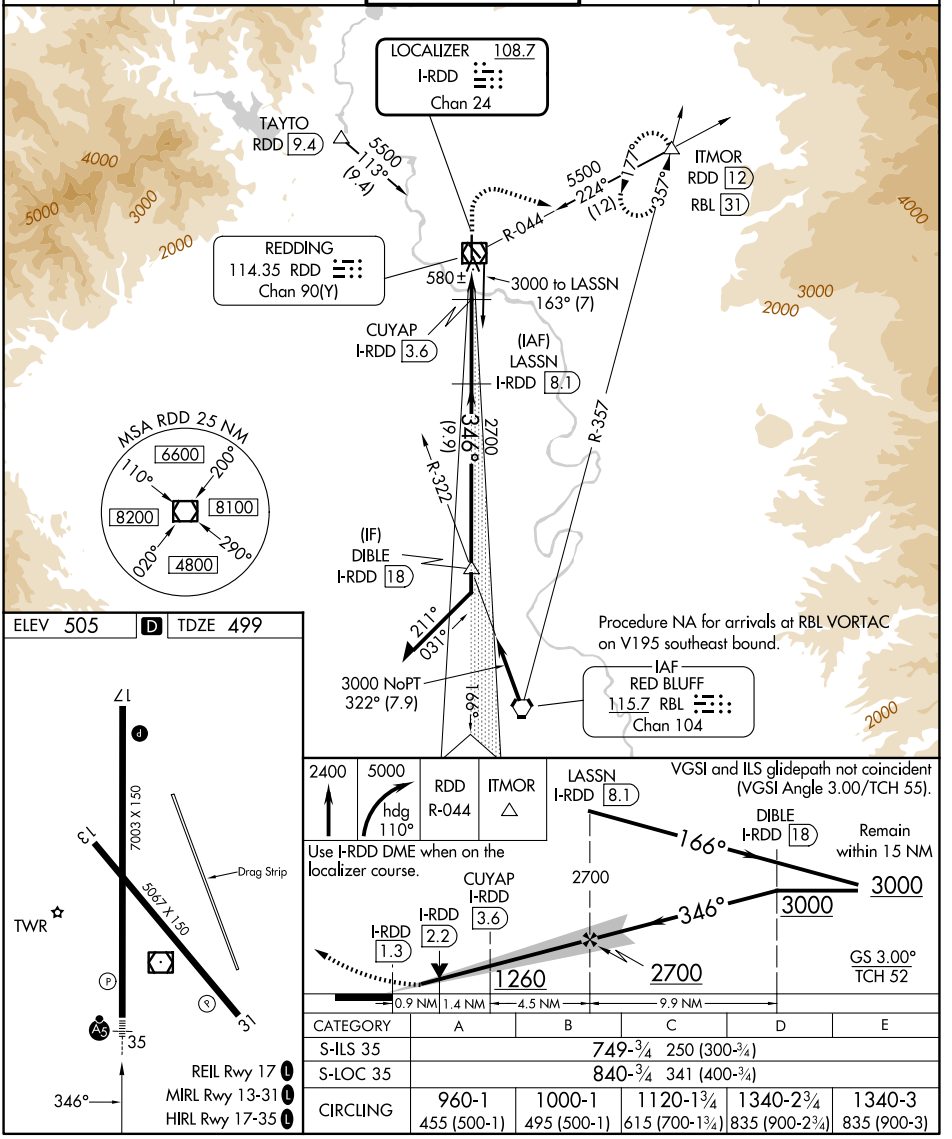
DME required for LOC only.

Circling Rwy 13 NA at night.
Rwy 35 helicopter visibility reduction below ¾ SM NA.
For inop ALS, increase S-LOC 35 all Cats visibility to 1 SM.
Inop table does not apply to S-ILS 35.

MALSR

MISSED APPROACH: Climb to 2400 then climbing right turn to 5000 on heading 110° and RDD R-044 to ITMOR INT/RDD 12 DME and hold, continue climb-in-hold to 5000.

ATIS	OAKLAND CENTER	REDDING TOWER ★	GND CON	UNICOM
124.1	132.2 350.3	119.8 (CTAF) L 269.25	121.7	122.95



ELEV 505 D TDZ 499

CATEGORY	A	B	C	D	E
S-ILS 35	749-¾ 250 (300-¾)				
S-LOC 35	840-¾ 341 (400-¾)				
CIRCLING	960-1 455 (500-1)	1000-1 495 (500-1)	1120-1¾ 615 (700-1¾)	1340-2¾ 835 (900-2¾)	1340-3 835 (900-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 86443 W17A	APP CRS 166°	Rwy Ldg 7003 TDZE 505 Apt Elev 505

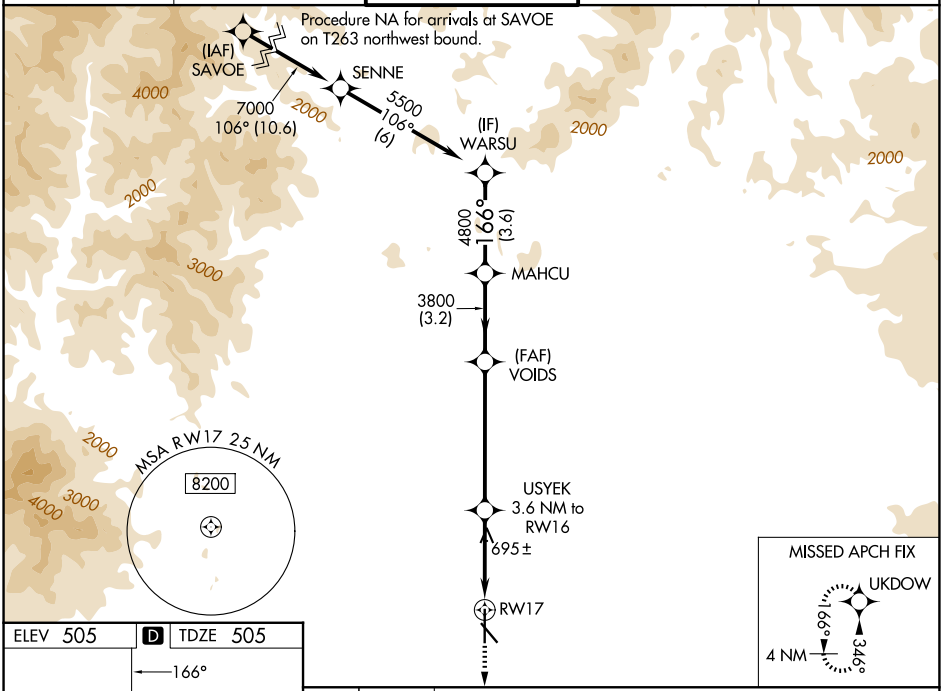
RNAV (GPS) RWY 17
REDDING RGNL (RDD)

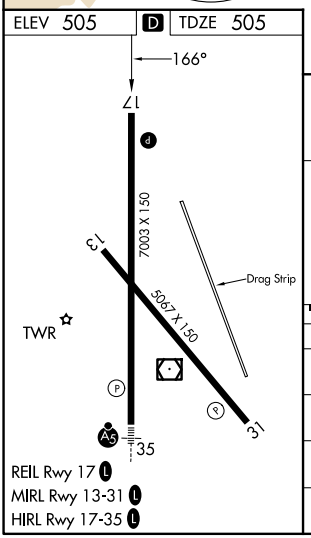
RNP APCH - GPS.

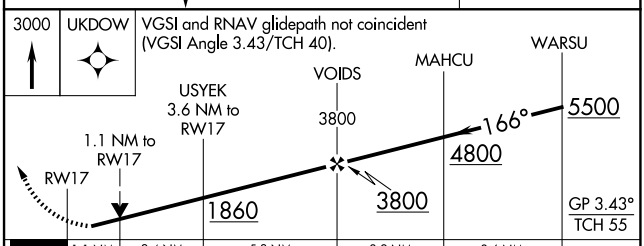
Rwy 17 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 53°C. Circling Rwy 13 NA at night.

MISSED APPROACH: Climb to 3000 direct UKDOW and hold.

ATIS	OAKLAND CENTER	REDDING TOWER ★	GND CON	UNICOM
124.1	132.2 350.3	119.8 (CTAF) 269.25	121.7	122.95







CATEGORY	A	B	C	D
LPV DA	821-⅞ 316 (400-⅞)			
LNAV/VNAV DA	911-1⅛ 406 (500-1⅛)			
LNAV MDA	960-1 455 (500-1)		960-1⅜ 455 (500-1⅜)	
CIRCLING	960-1 455 (500-1)	1000-1 495 (500-1)	1120-1¾ 615 (700-1¾)	1340-2¾ 835 (900-2¾)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

REDDING, CALIFORNIA AL-688 (FAA) 26134

WAAS CH 56402 W35A	APP CRS 346°	Rwy Ldg 6997 TDZE 499 Apt Elev 505

RNAV (GPS) RWY 35

REDDING RGNL (RDD)

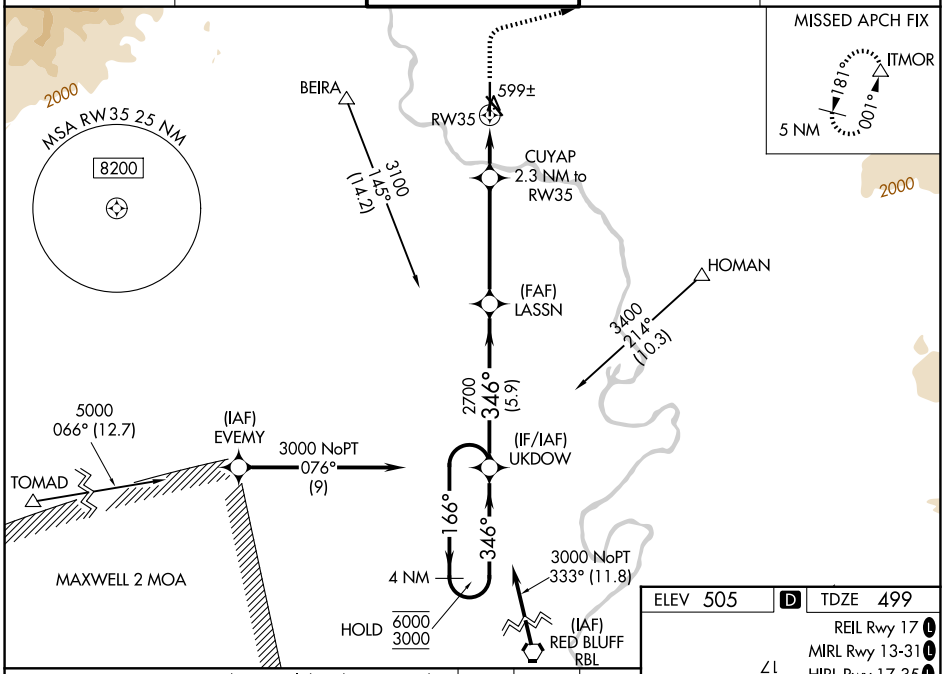
RNP APCH - GPS.

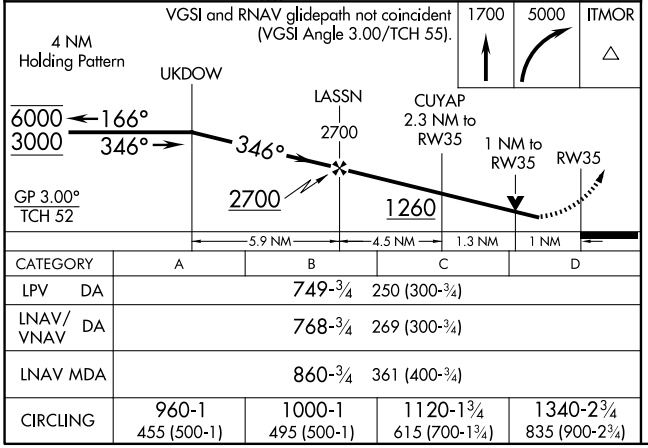
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C. Circling Rwy 13 NA at night. Rwy 35 helicopter visibility reduction below ¾ SM NA. Inop table does not apply to LPV all Cats. LNAV/VNAV minimums: For inop ALS, increase visibility all Cats to ⅞ SM. LNAV minimums: For inop ALS, increase visibility all Cats to 1 SM.

MALSR

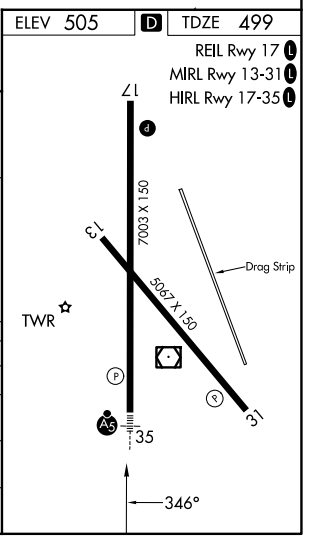
MISSED APPROACH: Climb to 1700 then climbing right turn to 5000 direct ITMOR, continue climb-in-hold to 5000.

ATIS	OAKLAND CENTER	REDDING TOWER ★	GND CON	UNICOM
124.1	132.2 350.3	119.8 (CTAF) L 269.25	121.7	122.95





CATEGORY	A	B	C	D
LPV DA	749-¾ 250 (300-¾)			
LNAV/VNAV DA	768-¾ 269 (300-¾)			
LNAV MDA	860-¾ 361 (400-¾)			
CIRCLING	960-1 455 (500-1)	1000-1 495 (500-1)	1120-1¾ 615 (700-1¾)	1340-2¾ 835 (900-2¾)



REDDING, CALIFORNIA
Amdt 3 14MAY26

40°31′N-122°18′W

REDDING RGNL (RDD)

RNAV (GPS) RWY 35

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-RDD	APP CRS	Rwy Ldg 7003
108.7	166°	TDZE 505
Chan 24		Apt Elev 505

LOC BC RWY 17

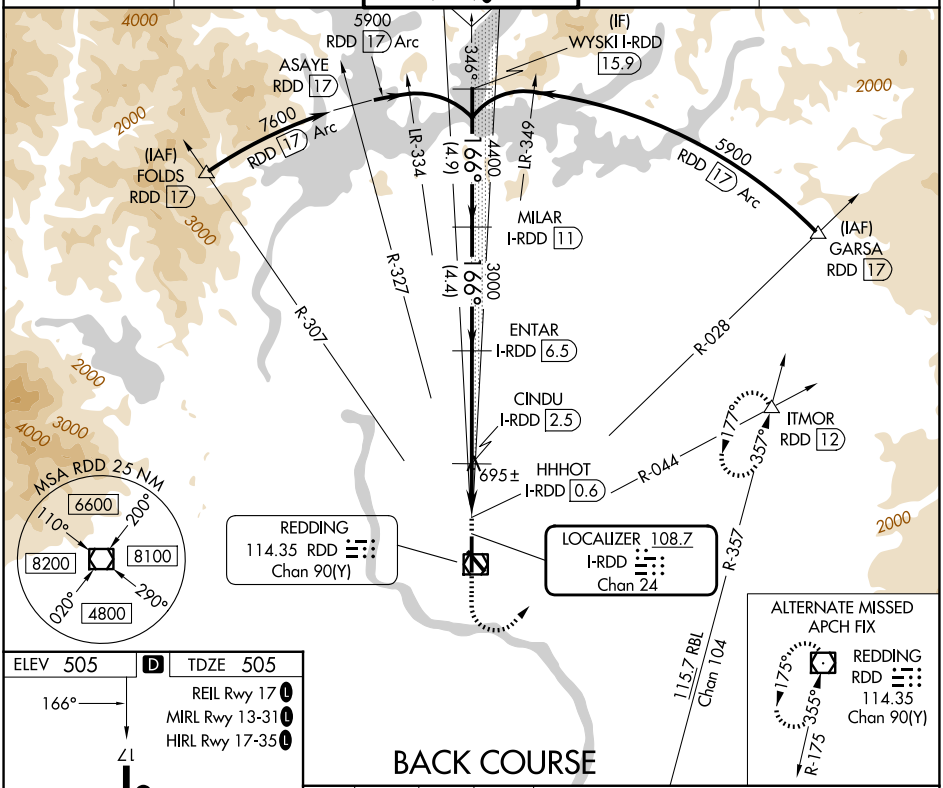
REDDING RGNL (RDD)

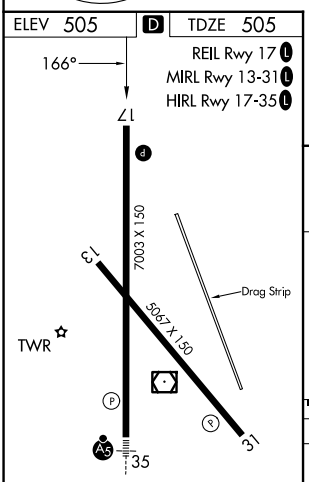
DME required.

Rwy 17 helicopter visibility reduction below ¾ SM NA.
Circling Rwy 13, NA at night.

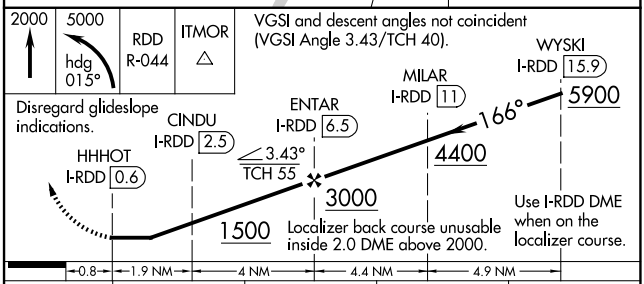
MISSED APPROACH: Climb to 2000 then climbing left turn to 5000 on heading 015° and RDD VOR/DME R-044 to ITMOR INT/RDD 12 DME and hold, continue climb-in-hold to 5000.

ATIS	OAKLAND CENTER	REDDING TOWER ★	GND CON	UNICOM
124.1	132.2 350.3	119.8 (CTAF) L 269.25	121.7	122.95





BACK COURSE



CATEGORY	A	B	C	D
S-17	960-1 455 (500-1)		960-1⅜ 455 (500-1⅜)	
CIRCLING	960-1 455 (500-1)	1000-1 495 (500-1)	1120-1¾ 615 (700-1¾)	1340-2¾ 835 (900-2¾)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

REDDING, CALIFORNIA | AL-688 (FAA) | 26134

VOR/DME RDD	APP CRS	Rwy Ldg	6997
114.35	355°	TDZE	499
Chan 90(Y)		Apt Elev	505

VOR RWY 35

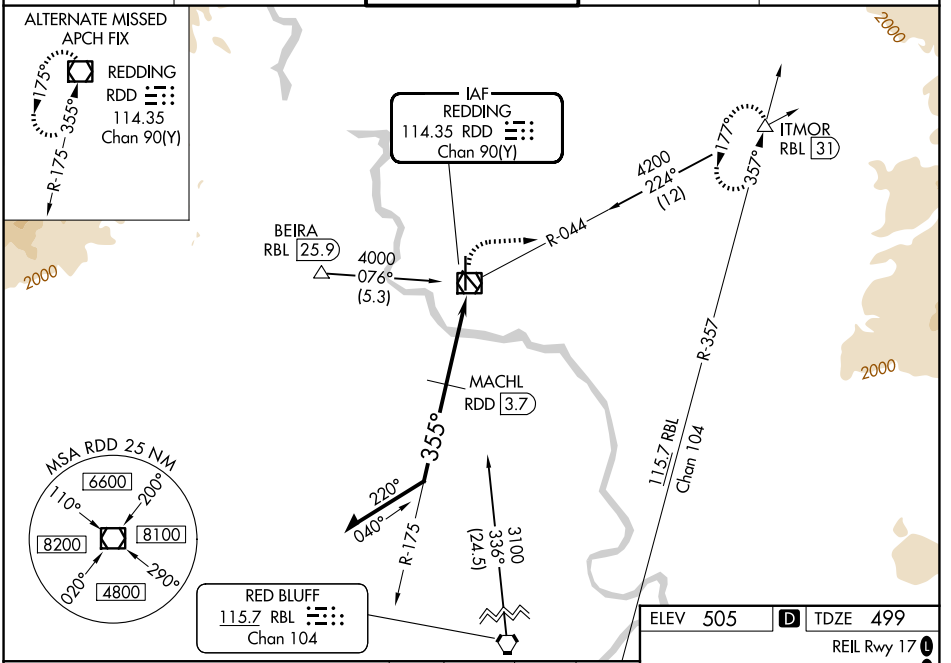
REDDING RGNL (RDD)

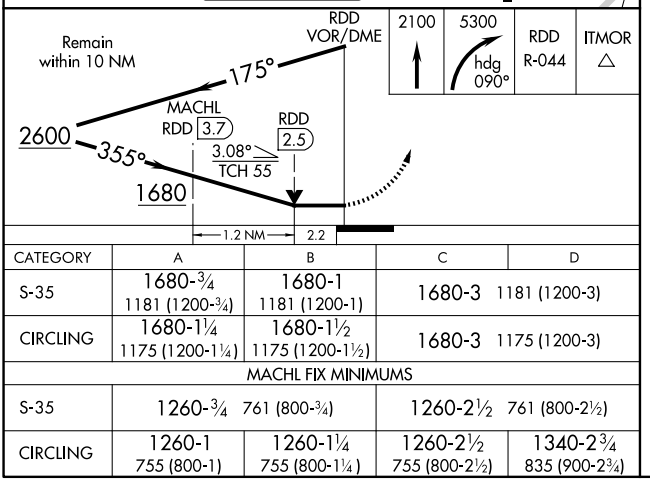
Circling Rwy 13 NA at night. Rwy 35 helicopter visibility reduction below ¾ SM NA. MACHL fix minimums and VOR minimums: Inop table does not apply to S-35 Cats C/D. MACHL fix minimums: For inop ALS, increase S-35 Cat A visibility to 1 SM.

MALSR

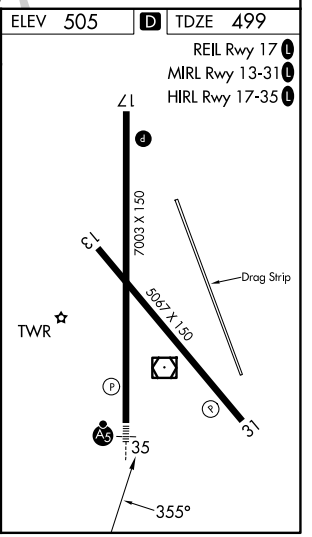
MISSED APPROACH: Climb to 2100 then climbing right turn to 5300 on heading 090° and on RDD VOR/DME R-044 to ITMOR INT/RBL 31 DME and hold, continue climb-in-hold to 5300.

ATIS	OAKLAND CENTER	REDDING TOWER ★	GND CON	UNICOM
124.1	132.2 350.3	119.8 (CTAF) L 269.25	121.7	122.95





CATEGORY	A	B	C	D
S-35	1680-¾ 1181 (1200-¾)	1680-1 1181 (1200-1)	1680-3 1181 (1200-3)	
CIRCLING	1680-1¼ 1175 (1200-1¼)	1680-1½ 1175 (1200-1½)	1680-3 1175 (1200-3)	
MACHL FIX MINIMUMS				
S-35	1260-¾ 761 (800-¾)		1260-2½ 761 (800-2½)	
CIRCLING	1260-1 755 (800-1)	1260-1¼ 755 (800-1¼)	1260-2½ 755 (800-2½)	1340-2¾ 835 (900-2¾)

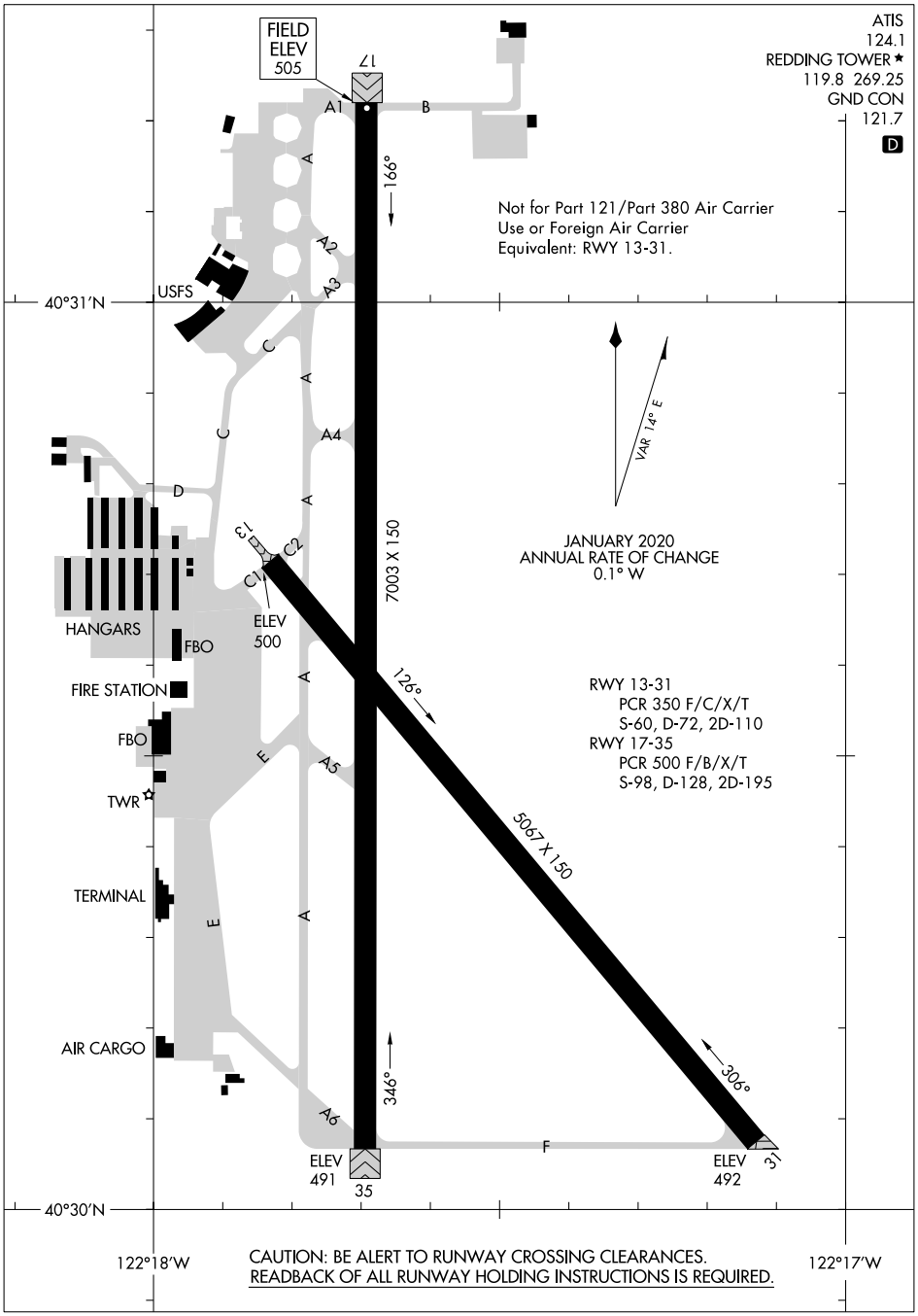


REDDING, CALIFORNIA
Amdt 12 14MAY26

40°31′N-122°18′W

REDDING RGNL (RDD)
VOR RWY 35

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026



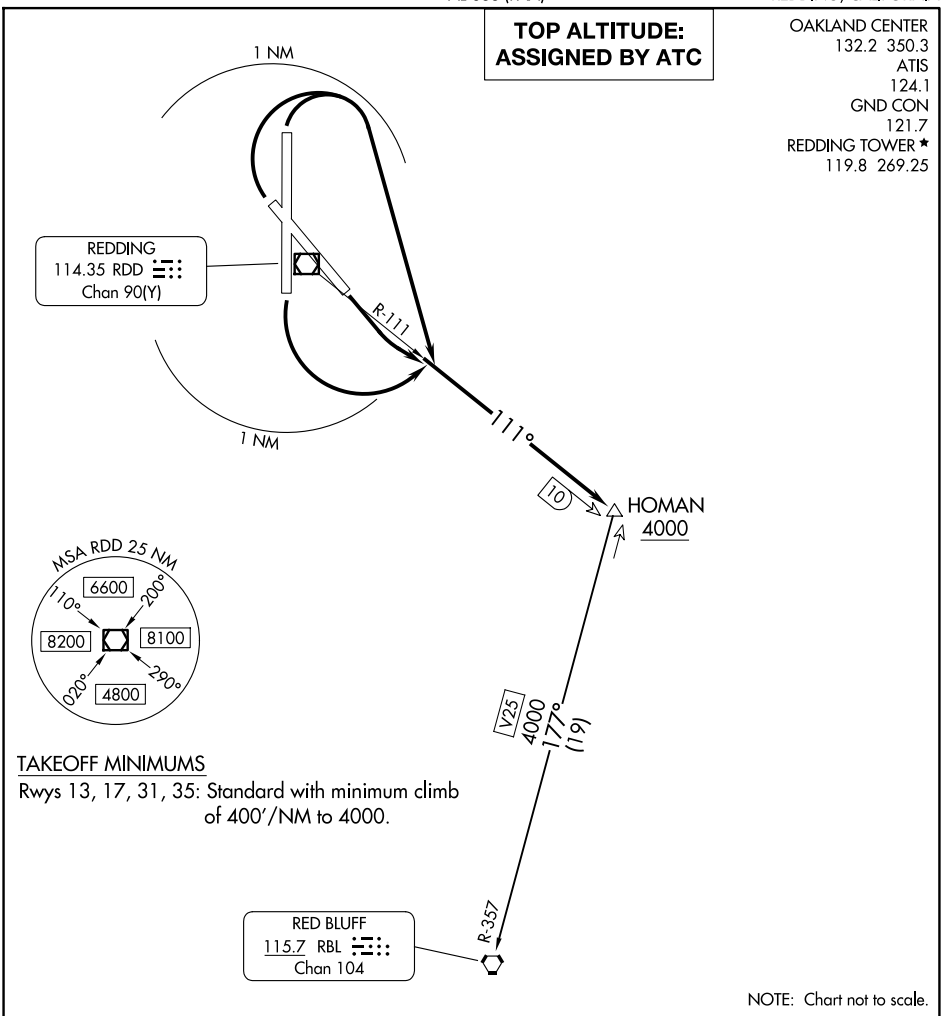
SW-2, 09 JUL 2026 to 03 SEP 2026

(HOMAN4.HOMAN) 26134

HOMAN FOUR DEPARTURE

AL-688 (FAA)

REDDING RGNL (RDD)
REDDING, CALIFORNIA



TAKEOFF MINIMUMS

Rwys 13, 17, 31, 35: Standard with minimum climb of 400'/NM to 4000.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13, 17: Climbing left turn within 1 NM, thence. . . .

TAKEOFF RUNWAYS 31, 35: Climbing right turn within 1 NM, thence. . . .

. . . .Intercept the RDD R-111 to HOMAN INT/RDD 10 DME, cross HOMAN INT/RDD 10 DME at or above 4000, then on transition. Maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

RED BLUFF TRANSITION (HOMAN4.RBL): From over HOMAN on RBL R-357 to RBL VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026

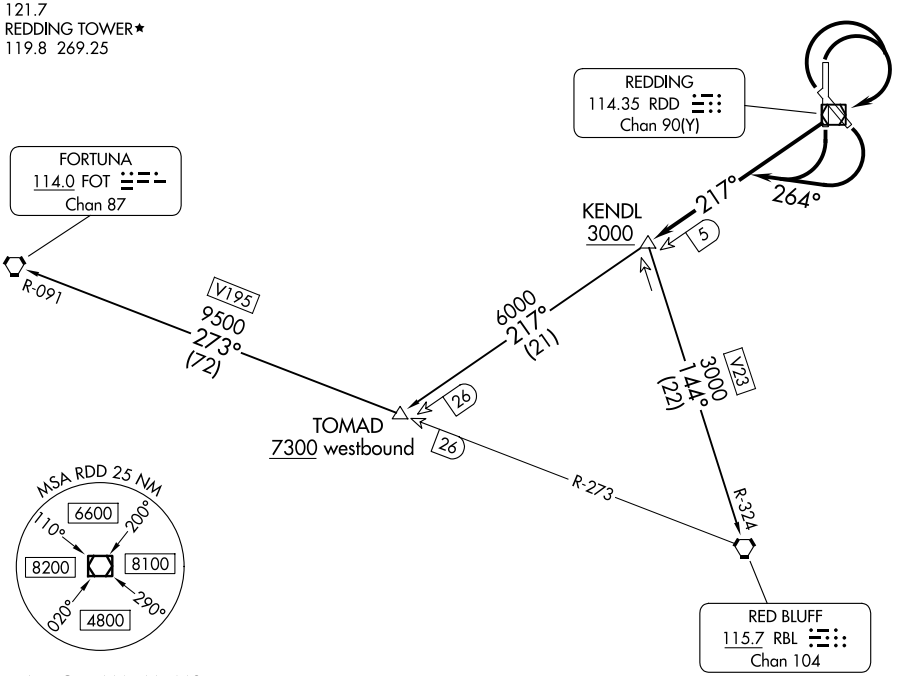
SW-2, 09 JUL 2026 to 03 SEP 2026

KENDL FIVE DEPARTURE

REDDING, CALIFORNIA

OAKLAND CENTER
132.2 350.3
ATIS
124.1
GND CON
121.7
REDDING TOWER★
119.8 269.25

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwy 13: Standard with minimum climb of 410'/NM to 3000.
Rwy 17: Standard with minimum climb of 495'/NM to 3000.
Rwy 31: Standard with minimum climb of 440'/NM to 3000.
Rwy 35: Standard with minimum climb of 410'/NM to 3000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13, 17: Climbing right turn heading 264° to intercept RDD VOR/DME R-217 to KENDL INT/RDD 5 DME, thence . . .
TAKEOFF RUNWAYS 31, 35: Climbing right turn direct RDD VOR/DME, then on RDD VOR/DME R-217 to KENDL INT/RDD 5 DME, thence . . .

. . . . then to cross KENDL INT/RDD 5 DME at or above 3000, then on transition. Maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

FORTUNA TRANSITION (KENDL5.FOT): From over KENDL on RDD R-217 to TOMAD, then on RBL R-273 and FOT R-091 to FOT VORTAC.
RED BLUFF TRANSITION (KENDL5.RBL): From over KENDL on RBL R-324 to RBL VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(SHA5.RDD) 26134

SHASTA FIVE DEPARTURE

AL-688 (FAA)

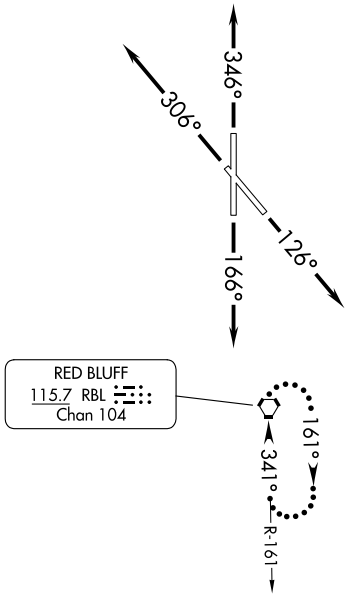
REDDING RGNL (RDD)
REDDING, CALIFORNIA

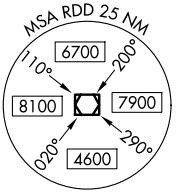
OAKLAND CENTER
132.2 350.3
ATIS
124.1
GND CON
121.7
REDDING TOWER★
119.8 (CTAF) 269.25

TOP ALTITUDE: ASSIGNED BY ATC

RADAR required.

TAKEOFF MINIMUMS
Rwy 13: Standard with minimum climb of 375′/NM to 13900.
Rwy 17: Standard with minimum climb of 370′/NM to 13900.
Rwy 31: Standard with minimum climb of 460′/NM to 8400.
Rwy 35: Standard with minimum climb of 452′/NM to 8200.





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 13: Climb on heading 126° (or ATC assigned 344° CW 234°), thence . . . .

TAKEOFF RUNWAY 17: Climb on heading 166° (or ATC assigned 354° CW 234°), thence . . . .

TAKEOFF RUNWAY 31: Climb on heading 306° (or ATC assigned 134° CW 004°), thence . . . .

TAKEOFF RUNWAY 35: Climb on heading 346° (or ATC assigned 174° CW 004°), thence . . . .

. . . . expect vectors to assigned route. Maintain ATC assigned altitude. Expect filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If no contact with Oakland Center after reaching 4000 proceed to RBL VORTAC and hold.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 77841 W16A	APP CRS 155°	Rwy Ldg 3300 TDZE 386 Apt Elev 386

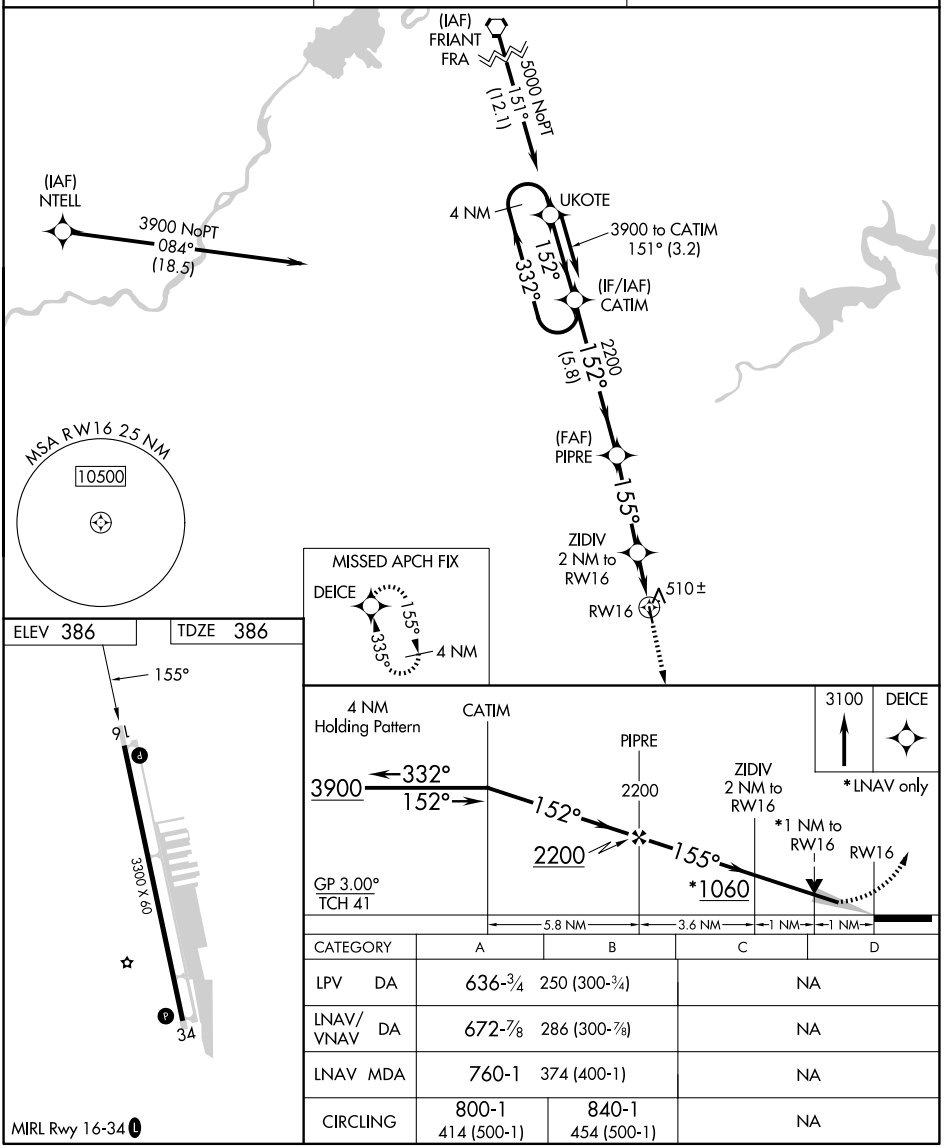
RNAV (GPS) RWY 16

REEDLEY MUNI (O32)

T NA — For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Circling NA east of Rwy 16-34. Baro-VNAV and VDP NA when using Fresno Yosemite Intl altimeter setting. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fresno Yosemite Intl altimeter setting: increase all DAs 41 feet and all visibilities ⅛ SM; increase all MDAs 60 feet.

MISSED APPROACH: Climb to 3100 direct DEICE and hold, continue climb-in-hold to 3100.

AWOS-3PT	FRESNO APP CON	UNICOM
120.175	132.35 323.25	122.7 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	636-¾	250 (300-¾)		NA
LNAV/VNAV DA	672-⅞	286 (300-⅞)		NA
LNAV MDA	760-1	374 (400-1)		NA
CIRCLING	800-1 414 (500-1)	840-1 454 (500-1)		NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 34

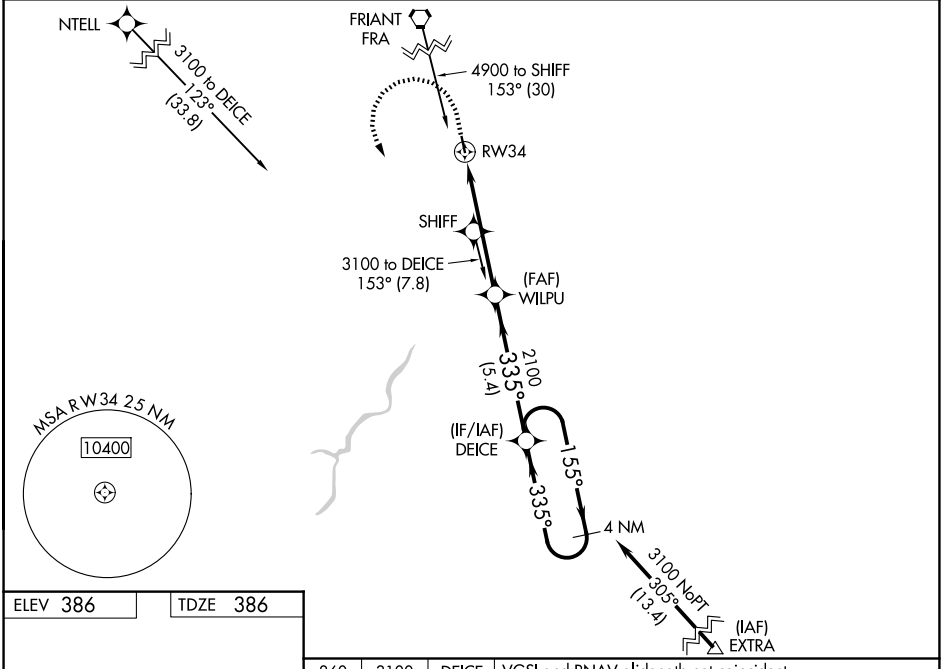
REEDLEY MUNI (O32)

WAAS	APP CRS	Rwy Ldg	3300
CH 99641	335°	TDZE	386
W34A		Apt Elev	386

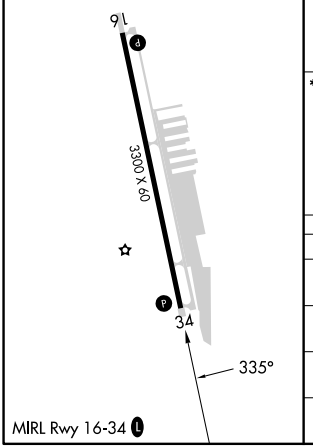
T NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Circling NA east of Rwy 16-34. Baro-VNAV and VDP NA when using Fresno Yosemite Intl altimeter setting. Rwy 34 helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fresno Yosemite Intl altimeter setting: increase all DAs 41 feet and all visibilities ⅛ SM; increase all MDAs 60 feet.

MISSED APPROACH: Climb to 860 then climbing left turn to 3100 direct DEICE and hold, continue climb-in-hold to 3100.

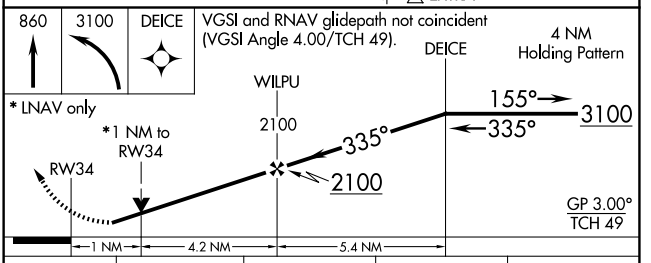
AWOS-3PT	FRESNO APP CON	UNICOM
120.175	132.35 323.25	122.7 (CTAF) L



ELEV 386 TDZE 386



MIRL Rwy 16-34 L



CATEGORY	A	B	C	D
LPV DA	636-¾	250 (300-¾)	NA	
LNAV/VNAV DA	740-1	354 (400-1)	NA	
LNAV MDA	860-1	474 (500-1)	NA	
CIRCLING	860-1	474 (500-1)	NA	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 82325 W25A	APP CRS 252°	Rwy Ldg 4199 TDZE 23 Apt Elev 23

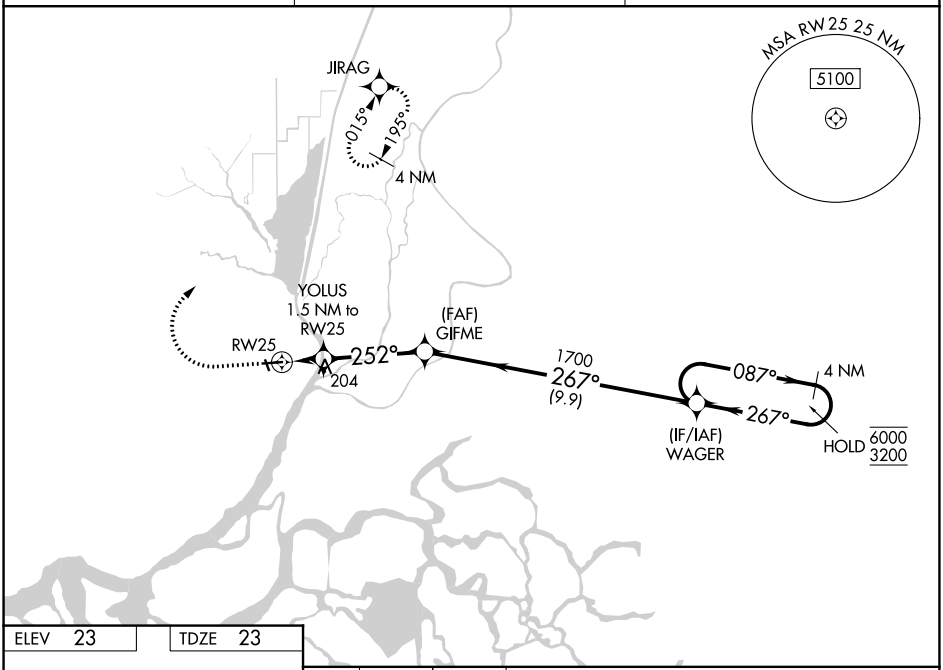
RNAV (GPS) RWY 25
RIO VISTA MUNI (088)

RNP APCH - GPS.

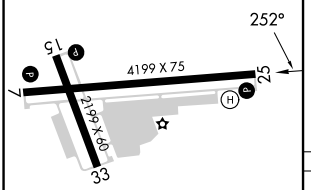
T NA Circling Rwy 33 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

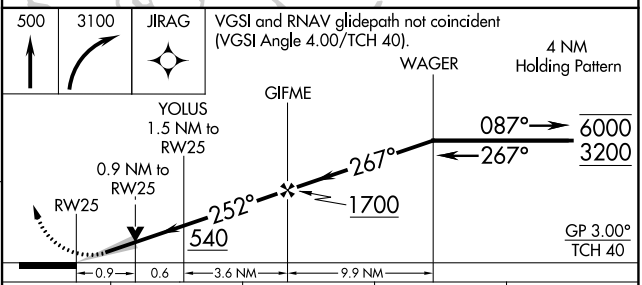
MISSED APPROACH: Climb to 500 then climbing right turn to 3100 direct JIRAG and hold, continue climb-in-hold to 3100.

AWOS-AV	TRAVIS APP CON	UNICOM
127.075	119.9 257.9	122.725 (CTAF) L



ELEV 23	TDZE 23





CATEGORY	A	B	C	D
LPV DA	223-¾ 200 (200-¾)			NA
LNAV/VNAV DA	353-1 330 (400-1)			NA
LNAV MDA	460-1 437 (500-1)		460-1¼ 437 (500-1¼)	NA
CIRCLING	460-1 437 (500-1)	600-1 577 (600-1)	940-2¾ 917 (1000-2¾)	NA

REIL Rwys 7, 15, 25 and 33 L
MIRL Rwys 7-25 and 15-33 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC I-MCC	APP CRS	Rwy Ldg 10599
109.7	163°	TDZE 77
		Apt Elev 77

ILS or LOC RWY 16

MC CLELLAN AIRFIELD (MCC)

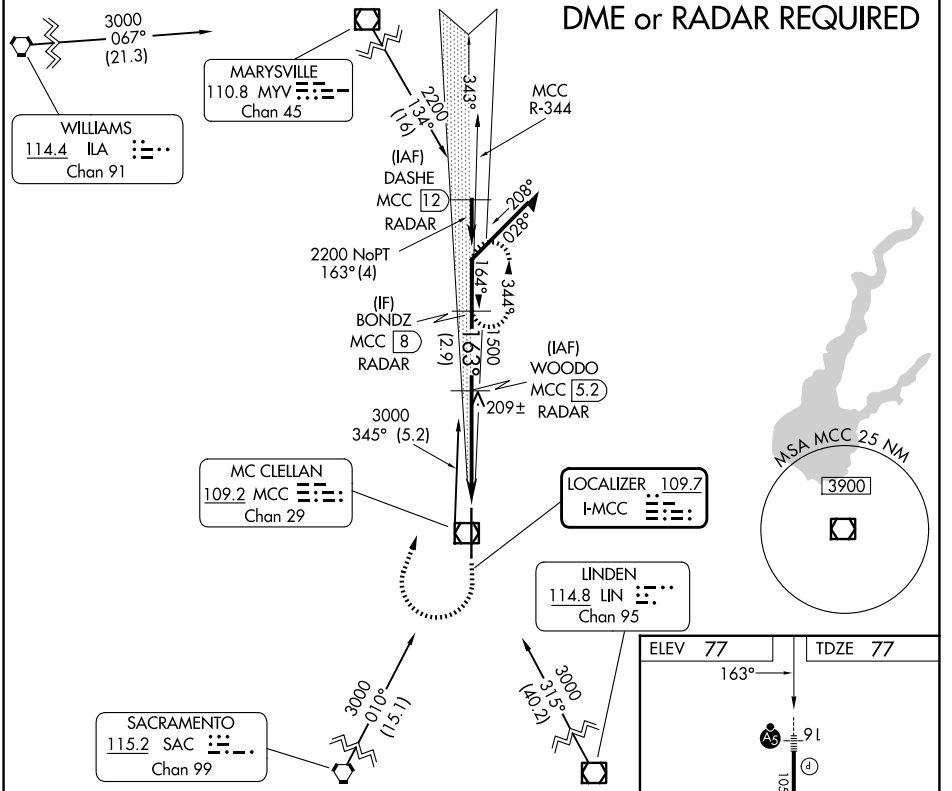
NA DME from MCC VOR/DME. If local altimeter setting is not received, use Sacramento Intl altimeter setting and increase all DH/MDAs 40 feet.

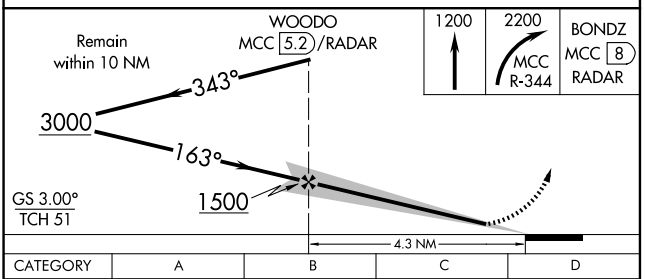
MALSR

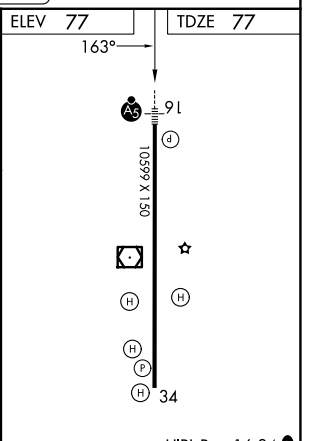
MISSED APPROACH: Climb to 1200 then climbing right turn to 2200 via MCC VOR/DME R-344 to BONDZ/MCC 8 DME/RADAR and hold.

AWOS-3	NORCAL APP CON	UNICOM
125.975	127.4 317.5	122.975 (CTAF) L

DME or RADAR REQUIRED







CATEGORY	A	B	C	D
S-ILS 16	277-½ 200 (200-½)			
S-LOC 16	460-½ 383 (400-½)			460-¾ 383 (400-¾)
CIRCLING	NA			

FAF to MAP 4.3 NM

Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VOR/DME MCC	APP CRS	Rwy Ldg 10599
109.2	333°	TDZE 72
Chan 29		Apt Elev 77

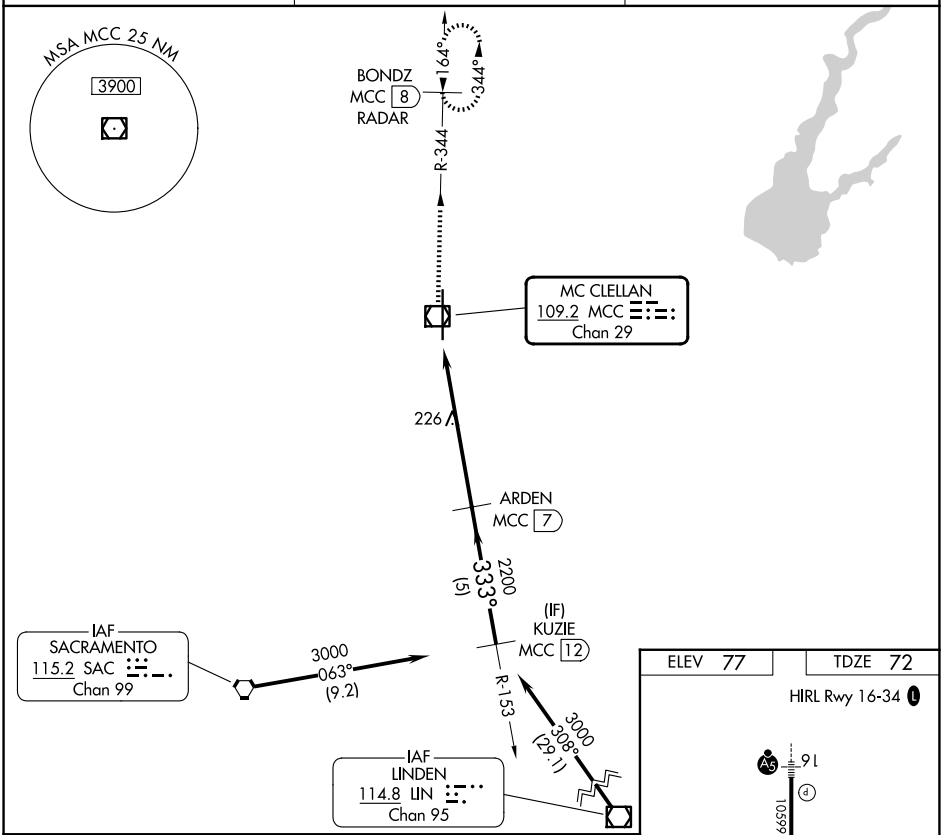
VOR/DME RWY 34

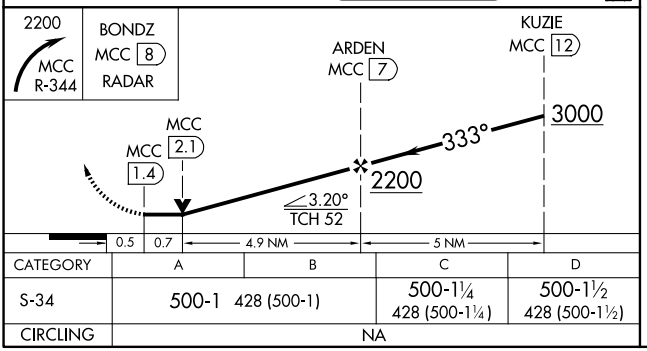
MC CLELLAN AIRFIELD (MCC)

NA VDP NA when using Sacramento Intl altimeter setting. When local altimeter setting not received, use Sacramento Intl altimeter setting and increase all MDAs 40 feet.

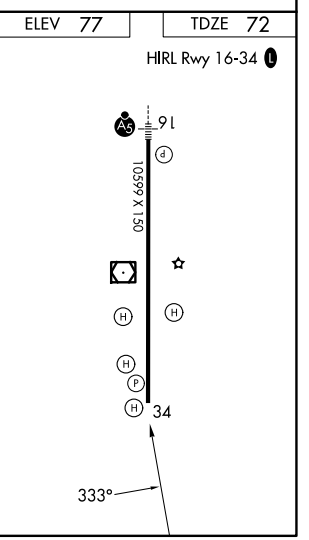
MISSED APPROACH: Climbing right turn to 2200 via MCC R-344 to BONDZ/MCC 8 DME/RADAR and hold.

AWOS-3	NORCAL APP CON	UNICOM
125.975	127.4 317.5	122.975 (CTAF)





CATEGORY	A	B	C	D
S-34	500-1 428 (500-1)		500-1¼ 428 (500-1¼)	500-1½ 428 (500-1½)
CIRCLING	NA			



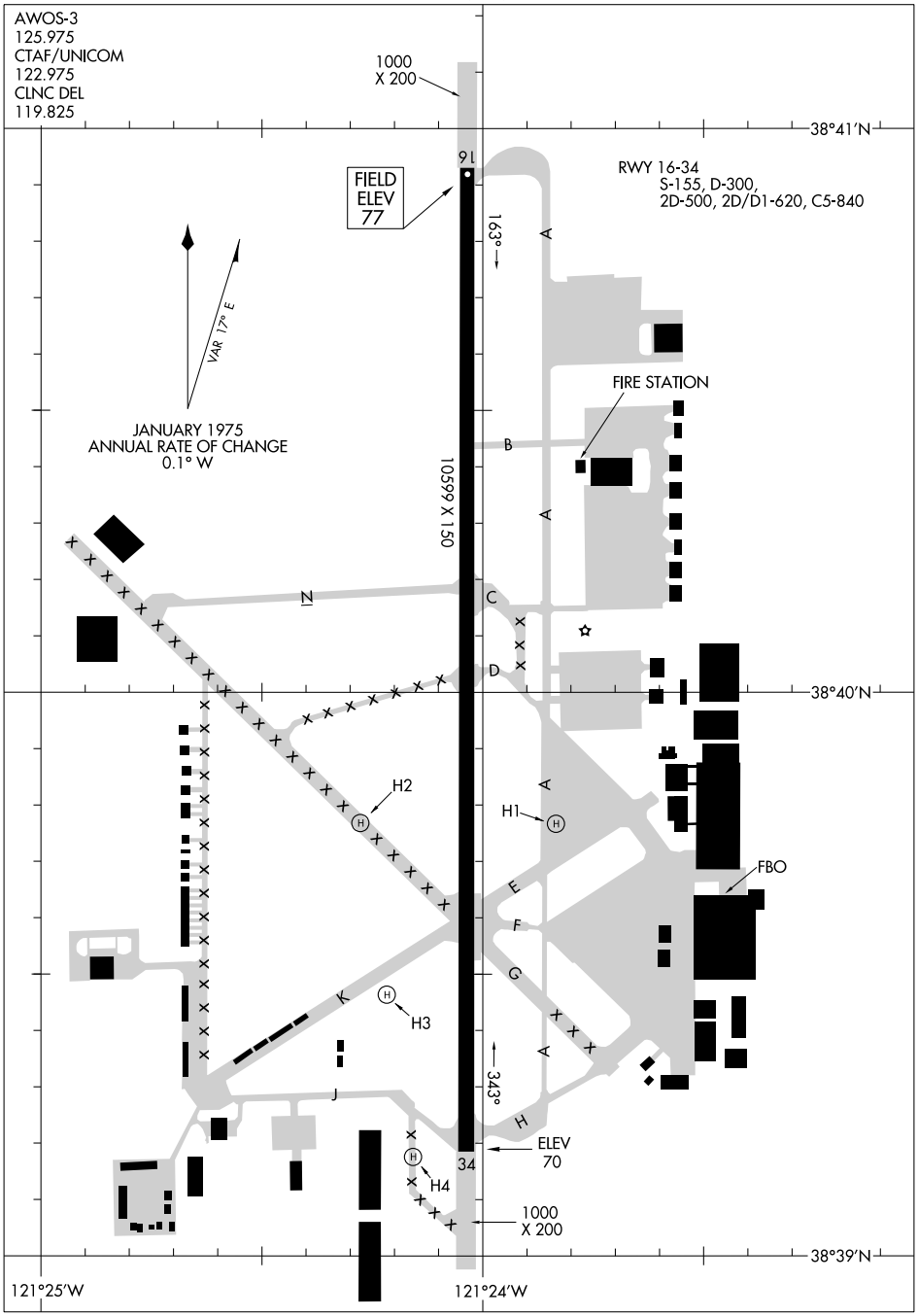
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26190

AIRPORT DIAGRAM

MC CLELLAN AIRFIELD (MCC)
SACRAMENTO, CALIFORNIA

AL-357 (FAA)



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM
26190

SACRAMENTO, CALIFORNIA
MC CLELLAN AIRFIELD (MCC)

LOC I-SAC	APP CRS	Rwy Ldg	5503
110.3	019°	TDZE	21
		Apt Elev	24

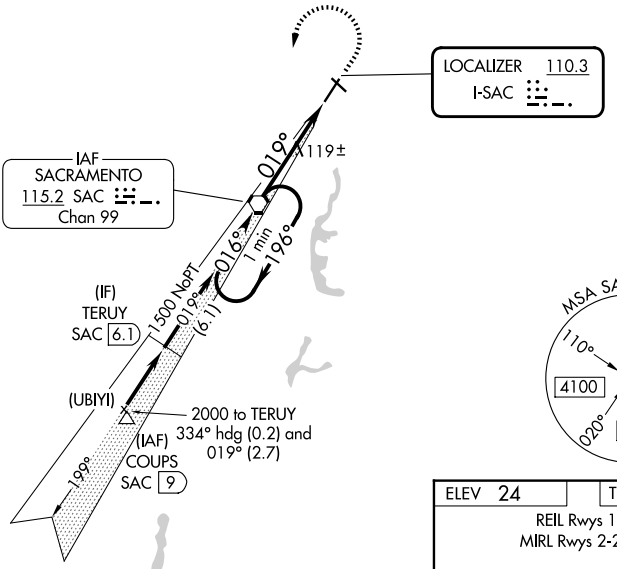
ILS or LOC RWY 2
SACRAMENTO EXEC (SAC)

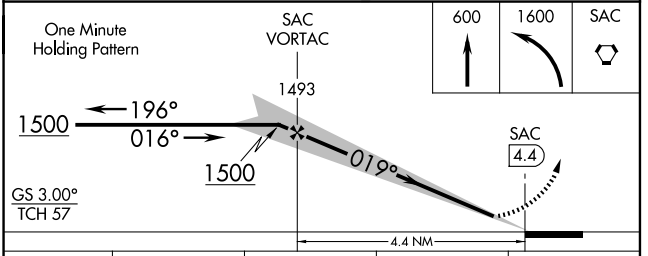
When local altimeter setting not received, use Sacramento Intl altimeter setting and increase DA to 322 feet, increase all MDAs 40 feet and Circling Cat D visibility ¼ SM. Autopilot coupled approach NA below 335 feet. For inop MALSR, increase S-ILS 2 all Cats visibility to ⅞ SM and S-LOC 2 Cat C/D visibility to 1 SM. For inop MALSR when using Sacramento Intl altimeter setting, increase S-ILS 2 all Cats visibility to ⅞ SM.

MALSR

MISSED APPROACH: Climb to 600 then climbing left turn to 1600 direct SAC VORTAC and hold.

ATIS	NORCAL APP CON	EXEC TOWER★	GND CON	UNICOM
118.075	125.25 257.9	119.5 (CTAF) L 278.8	125.0	122.95

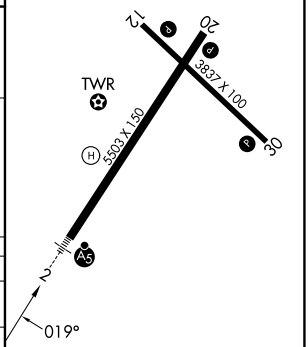




CATEGORY	A	B	C	D
S-ILS 2	294-½ 273 (300-½)			
S-LOC 2	380-½ 359 (400-½)		380-⅝ 359 (400-⅝)	
CIRCLING	500-1 476 (500-1)	520-1 496 (500-1)	560-1½ 536 (600-1½)	800-2½ 776 (800-2½)

ELEV 24	TDZE 21

REIL Rwys 12, 20 and 30 L
MIRL Rwys 2-20 and 12-30 L



FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SACRAMENTO, CALIFORNIA | AL-358 (FAA) | 25219

WAAS	APP CRS	Rwy Ldg	5503
CH 62810	019°	TDZE	21
W02A		Apt Elev	24

RNAV (GPS) RWY 2
SACRAMENTO EXEC (SAC)

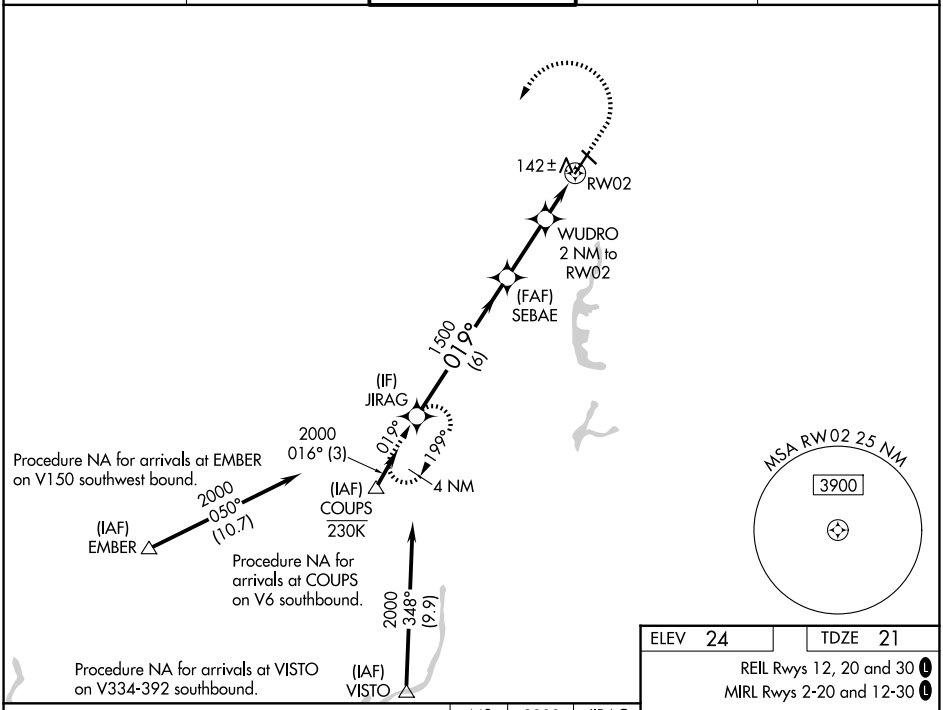
RNP APCH-GPS.

T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to ⅞ SM, increase LNAV all Cats visibility to 1 SM.

MALSR (A5)

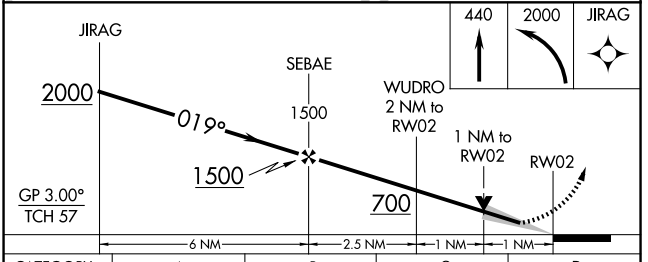
MISSED APPROACH: Climb to 440 then climbing left turn to 2000 direct JIRAG and hold.

ATIS	NORCAL APP CON	EXEC TOWER ★	GND CON	UNICOM
118.075	125.25 257.9	119.5 (CTAF) L 278.8	125.0	122.95

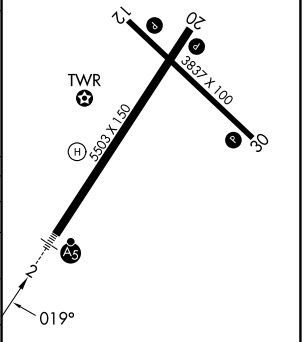


ELEV 24	TDZE 21

REIL Rwys 12, 20 and 30 L
MIRL Rwys 2-20 and 12-30 L



CATEGORY	A	B	C	D
LPV DA	221-½ 200 (200-½)			
LNAV/VNAV DA	304-½ 283 (300-½)			
LNAV MDA	400-½ 379 (400-½)		400-⅝ 379 (400-⅝)	
CIRCLING	500-1 476 (500-1)	520-1 496 (500-1)	560-1½ 536 (600-1½)	800-2½ 776 (800-2½)



SACRAMENTO, CALIFORNIA
Amdt 1 22APR21

38°31′N-121°30′W

SACRAMENTO EXEC (SAC)
RNAV (GPS) RWY 2

SW-2, 09 JUL 2026 to 03 SEP 2026

VORTAC SAC	APP CRS	Rwy Ldg	5503
115.2	016°	TDZE	21
Chan 99		Apt Elev	24

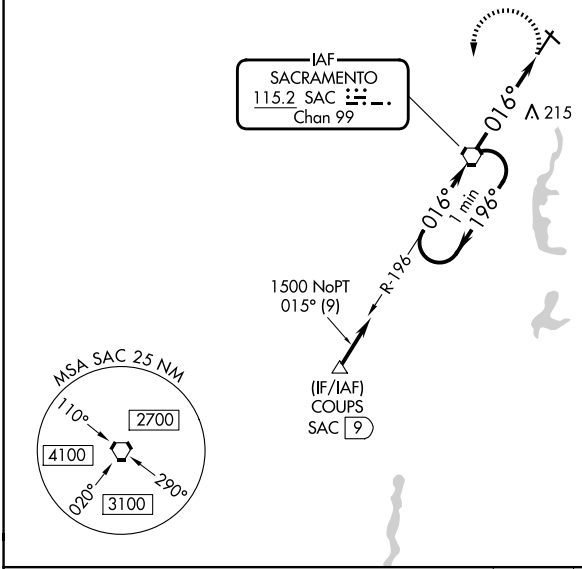
VOR RWY 2
SACRAMENTO EXEC (SAC)

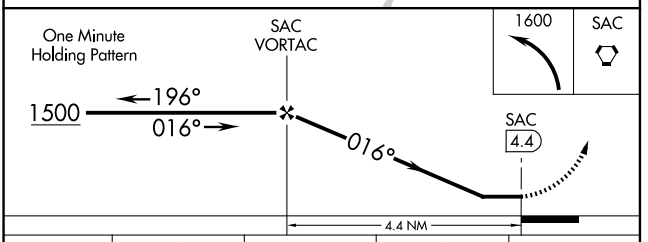
When local altimeter setting not received, use Sacramento Intl altimeter setting and increase all MDAs 40 feet and Circling Cat D visibility ¼ SM.

MALSR

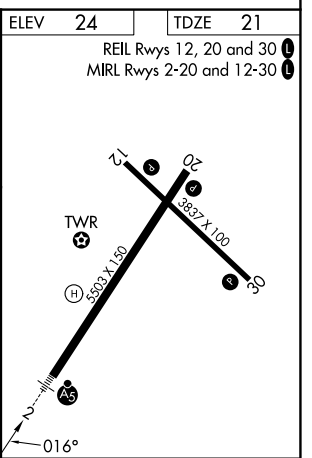
MISSED APPROACH: Climbing left turn to 1600 direct SAC VORTAC and hold.

ATIS	NORCAL APP CON	EXEC TOWER ★	GND CON	UNICOM
118.075	125.25 257.9	119.5 (CTAF) L 278.8	125.0	122.95





CATEGORY	A	B	C	D
S-2	520-½	499 (500-½)	520-1	499 (500-1)
CIRCLING	520-1	496 (500-1)	560-1½ 536 (600-1½)	800-2½ 776 (800-2½)



FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

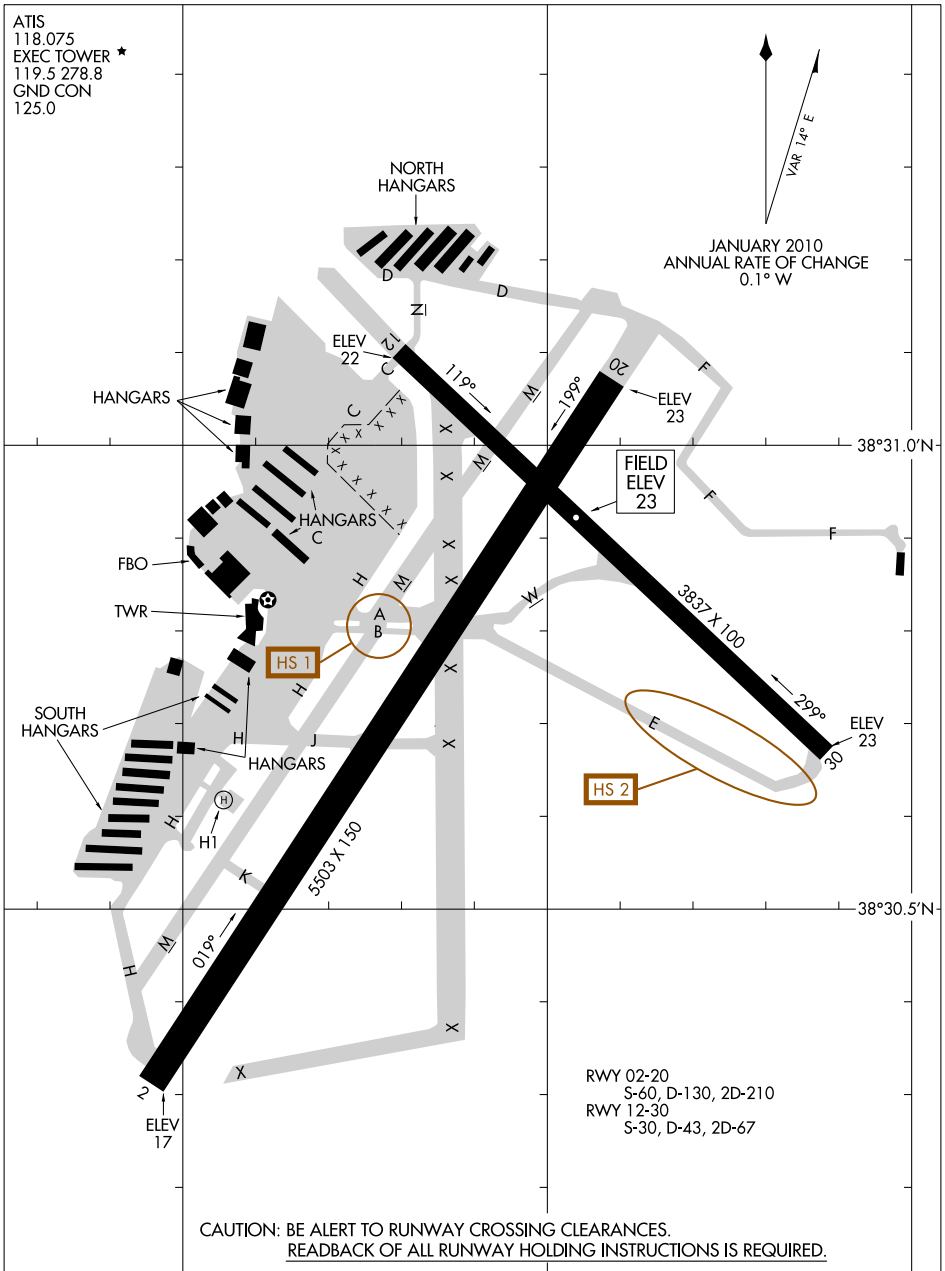
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26190

AIRPORT DIAGRAM

AL-358 (FAA)

SACRAMENTO EXEC (SAC)
SACRAMENTO, CALIFORNIA



AIRPORT DIAGRAM
26190

SACRAMENTO, CALIFORNIA
SACRAMENTO EXEC (SAC)

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-MDK	APP CRS	Rwy Ldg 8605
111.75	168°	TDZE 27
Chan 54 (Y)		Apt Elev 27

ILS or LOC RWY 17L

SACRAMENTO INTL (SMF)

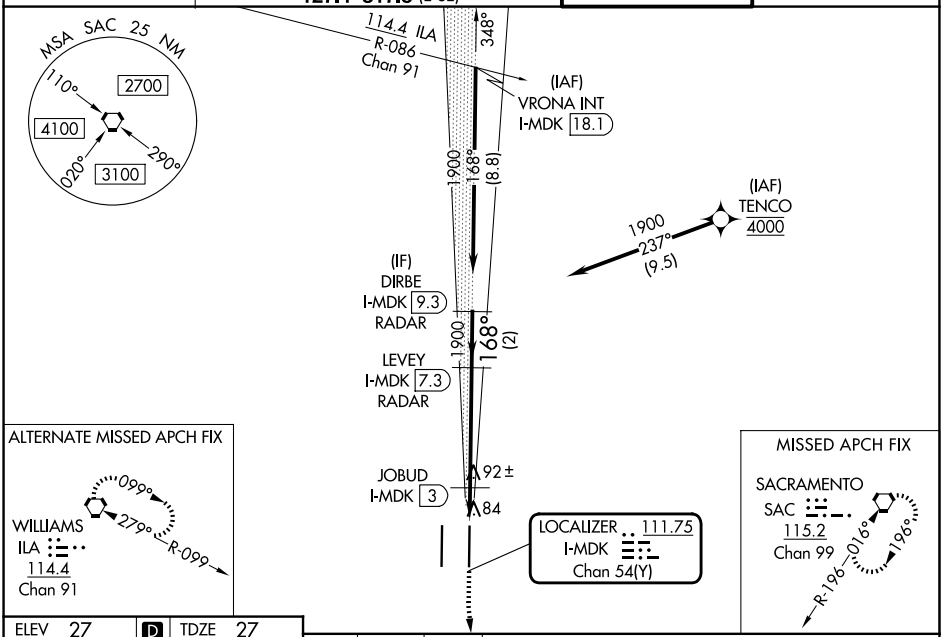
Aircraft not GPS equipped - RADAR required for procedure entry. DME or RADAR required. RNP APCH-GPS. From TENCO.

T A Simultaneous approach authorized. Circling NA west of Rwy 17L-35R. For inop ALS, increase S-LOC 17L Cat C/D visibility to 1⅜ SM and JOBUD fix minimums S-LOC 17L Cat C/D visibility to RVR 4500.

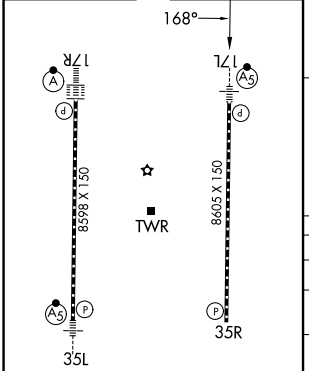
MALSR

MISSED APPROACH: Climb to 500 then climbing left turn to 3000 direct SAC VORTAC and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7



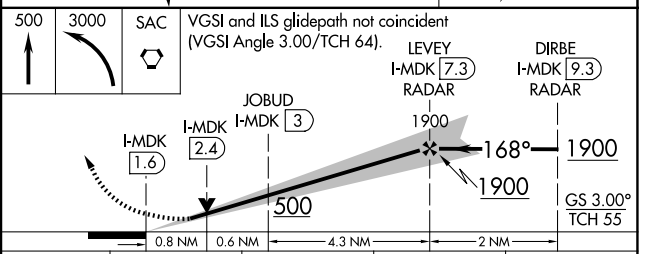
ELEV 27 D TDZ 27



TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R

FAF to MAP 5.7 NM

Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54



CATEGORY	A	B	C	D
S-ILS 17L	227/18 200 (200-½)			
S-LOC 17L	500/24 473 (500-½)		500/50 473 (500-1)	
CIRCLING	500-1 473 (500-1)		500-1½ 473 (500-1½)	840-2¾ 813 (900-2¾)
JOBUD FIX MINIMUMS (DME REQUIRED)				
S-LOC 17L	340/24 313 (400-½)			
CIRCLING	400-1 373 (400-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	840-2¾ 813 (900-2¾)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SACRAMENTO, CALIFORNIA | AL-5490 (FAA) | 26022

LOC/DME I-SMF	APP CRS	Rwy Ldg	8598
111.1	168°	TDZE	25
Chan 48		Apt Elev	27

ILS or LOC RWY 17R

SACRAMENTO INTL (SMF)

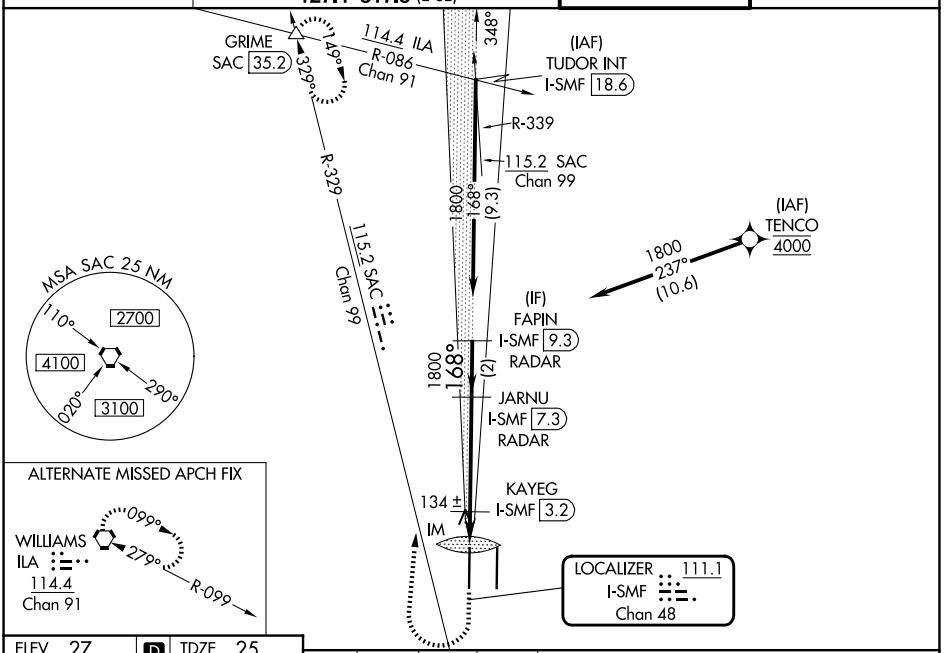
Aircraft not GPS equipped - RADAR required for procedure entry. DME or RADAR required. RNP APCH-GPS. From TENCO.

Simultaneous approach authorized. Circling NA east of Rwy 17R-35L.

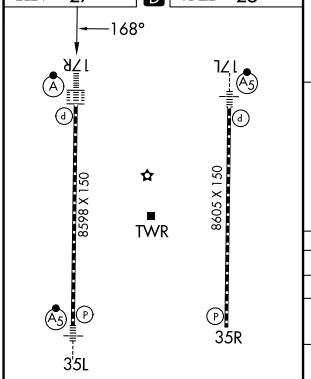
ALSF-2

MISSED APPROACH: Climb to 500 then climbing right turn to 2000 on heading 350° and SAC VORTAC R-329 to GRIME INT/SAC 35.2 DME and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7



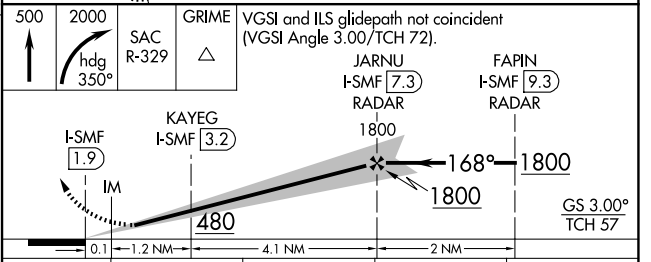
ELEV 27 | D | TDZE 25



TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48



CATEGORY	A	B	C	D
S-ILS 17R	225/18		200 (200-½)	
S-LOC 17R	480/24 455 (500-½)		480/45 455 (500-⅞)	
CIRCLING	480-1 453 (500-1)		480-1½ 453 (500-1½)	580-2 553 (600-2)
KAYEG FIX MINIMUMS (DME REQUIRED)				
S-LOC 17R	400/24 375 (400-½)		400/35 375 (400-⅝)	
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-HUX	APP CRS	Rwy Ldg	8598
111.1	348°	TDZE	24
Chan 48		Apt Elev	27

ILS or LOC RWY 35L

SACRAMENTO INTL (SMF)

DME required.

Circling NA east of Rwy 17R-35L. Autopilot coupled approach NA below 312 MSL. For inop ALS, increase S-LOC 35L Cats C/D visibility to RVR 4500.
*RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 500 then climbing left turn to 2000 on heading 320° and SAC VORTAC R-329 to GRIME INT/SAC 35.2 DME and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7

MISSED APCH FIX

114.4 ILA R-086 Chan 91

GRIME SAC 35.2

149° 329° 115.2 SAC R-329 Chan 99

ALTERNATE MISSED APCH FIX

R-327 147° 327°

MARYSVILLE MYV 110.8 Chan 45

LOCALIZER 111.1 I-HUX Chan 48

SAC R-329

73±

CANLO I-HUX 0.8

132±

HADSU I-HUX 3.7 RADAR

1400 348° (7.3)

R-303

(IF) ELMAC INT I-HUX 11 210K

3000 303° (3.9)

168°

IAF SACRAMENTO 115.2 SAC Chan 99

MSA SAC 25 NM

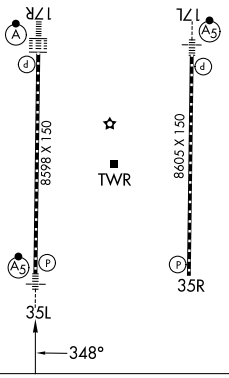
110° 2700 4100 020° 3100 290°

Procedure NA for arrivals on SAC VORTAC airway radials 257 CW 329.

ELEV 27 D TDZE 24

TDZL/RCLS Rwys 17L and 17R

HIRL Rwys 17R-35L and 17L-35R

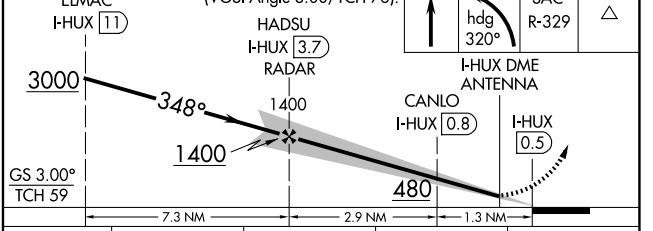


FAF to MAP 4.1 NM

Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 76).

500	2000 hdg 320°	SAC R-329	GRIME △



CATEGORY	A	B	C	D
S-ILS 35L*	224/24 200 (200-½)			
S-LOC 35L	340/24 316 (400-½)			
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SACRAMENTO, CALIFORNIA | AL-5490 (FAA) | 26022

LOC/DME I-SMF	APP CRS	Rwy Ldg	8598
111.1	168°	TDZE	25
Chan 48		Apt Elev	27

ILS RWY 17R (SA CAT I)

SACRAMENTO INTL (SMF)

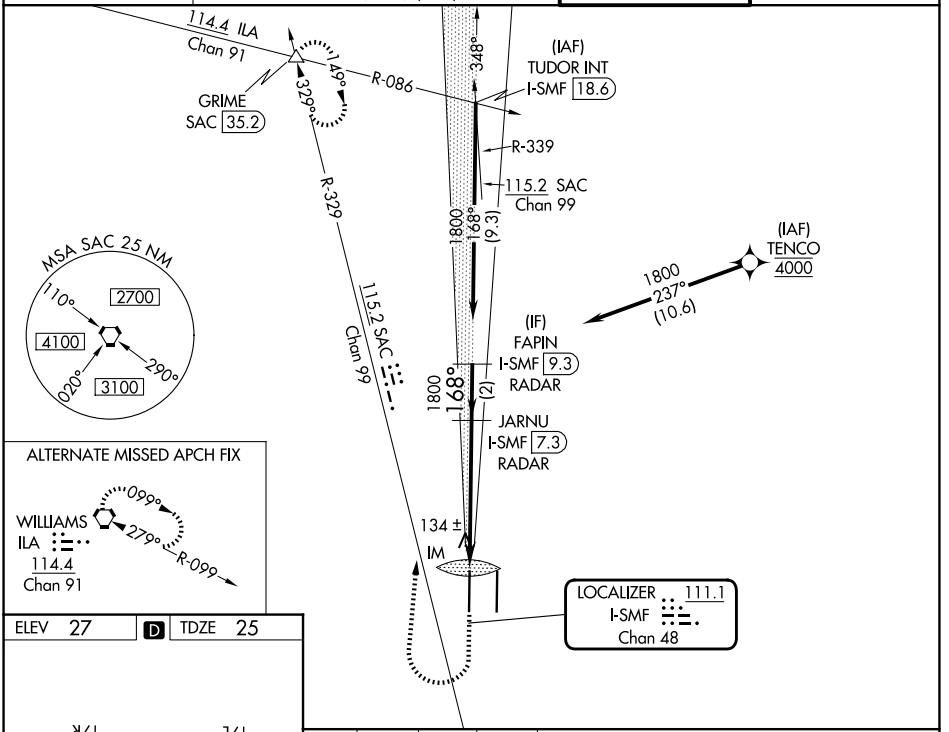
Aircraft not GPS equipped - RADAR required for procedure entry. DME or RADAR required. RNP APCH-GPS. From TENCO.

Simultaneous approach authorized. Requires specific OPSPEC, MSPEC, or LOA approval.

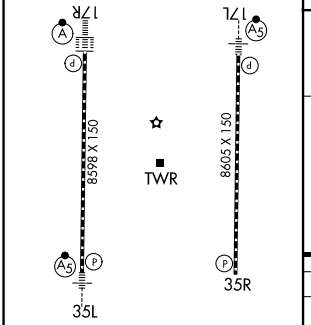
ALSF-2

MISSED APPROACH: Climb to 500 then climbing right turn to 2000 on heading 350° and SAC VORTAC R-329 to GRIME INT/SAC 35.2 DME and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7



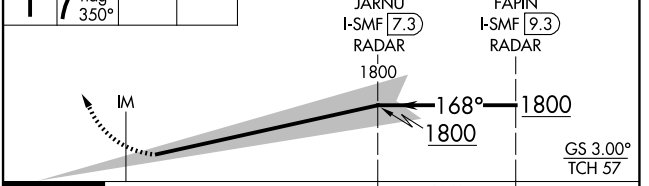
ELEV 27 | D | TDZE 25



TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R

500	2000	SAC	GRIME
	hdg 350°	R-329	△

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 72).



CATEGORY	A	B	C	D
S-ILS 17R	RA 154/14 150 DA 175			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SACRAMENTO, CALIFORNIA | SACRAMENTO INTL (SMF)

Amdt 16E 23FEB23 | 38°42'N-121°35'W | ILS RWY 17R (SA CAT I)

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-SMF	APP CRS	Rwy Ldg 8598
111.1	168°	TDZE 25
Chan 48		Apt Elev 27

ILS RWY 17R (CAT II & III)

SACRAMENTO INTL (SMF)

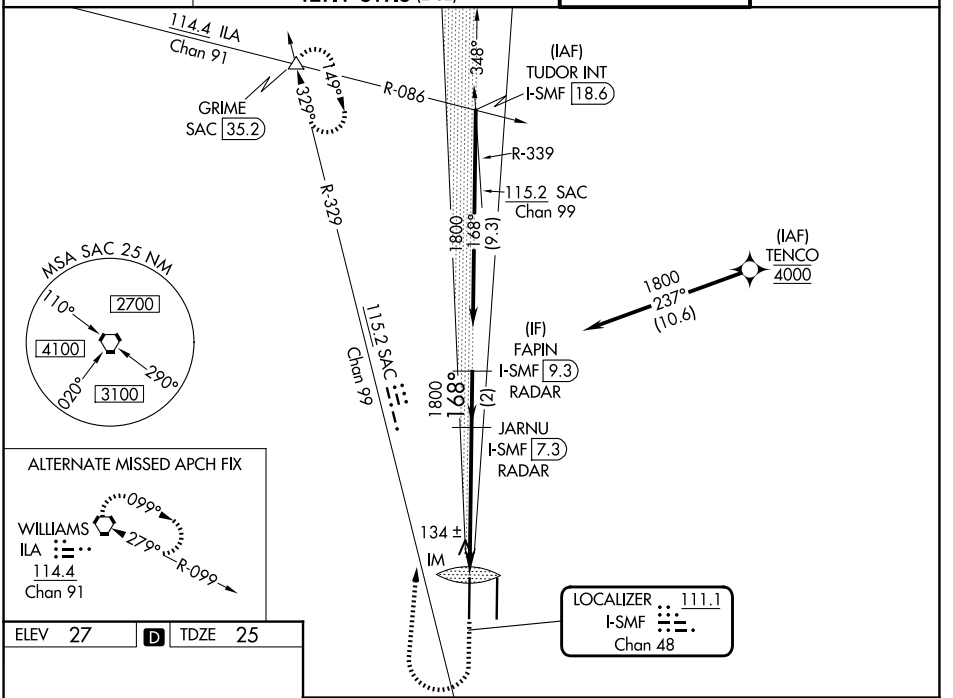
Aircraft not GPS equipped - RADAR required for procedure entry. DME or RADAR required. RNP APCH-GPS. From TENCO.

Simultaneous approach authorized.

ALSF-2

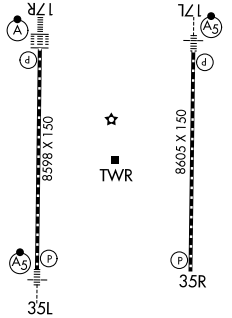
MISSED APPROACH: Climb to 500 then climbing right turn to 2000 on heading 350° and SAC VORTAC R-329 to GRIME INT/SAC 35.2 DME and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7

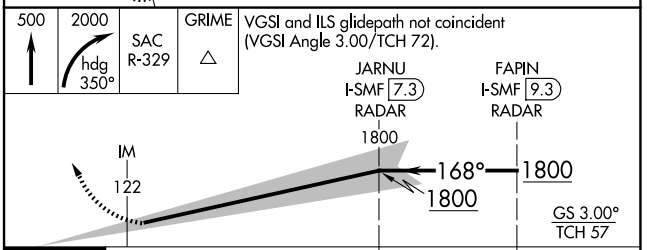


ALTERNATE MISSED APCH FIX

ELEV 27 D TDZE 25



TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R



CATEGORY	A	B	C	D
S-ILS 17R	CAT II RA 103/12 100 DA 125			
S-ILS 17R	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS RWY 17L (SA CAT II)

SACRAMENTO INTL (SMF)

LOC/DME I-MDK	APP CRS	Rwy Ldg	8605
111.75	168°	TDZE	27
Chan 54 (Y)		Apt Elev	27

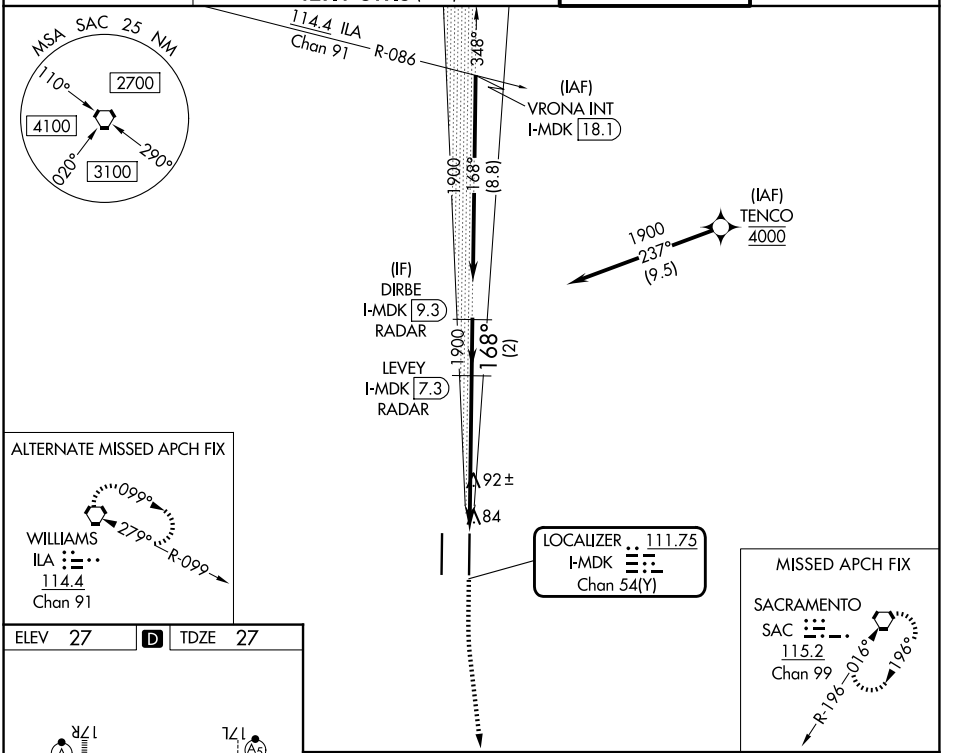
Aircraft not GPS equipped - RADAR required for procedure entry. DME or RADAR required. RNP APCH-GPS. From TENCO.

Simultaneous approach authorized. Requires specific OPSPEC, MSPEC or LOA approval.

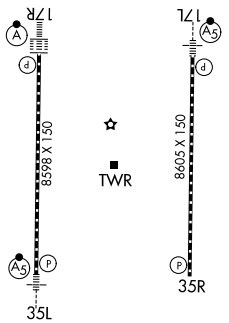
MALSR

MISSED APPROACH: Climb to 500 then climbing left turn to 3000 direct SAC VORTAC and hold.

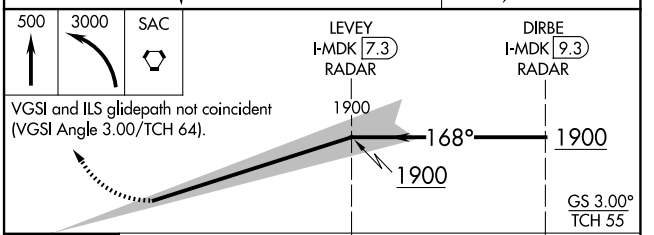
D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7



ELEV 27 | D | TDZE 27



TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R



CATEGORY	A	B	C	D
S-ILS 17L	RA 108/12 100 DA 127			

SA CATEGORY II ILS-SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	8605
168°	TDZE	27
	Apt Elev	27

RNAV (RNP) Z RWY 17L

SACRAMENTO INTL (SMF)

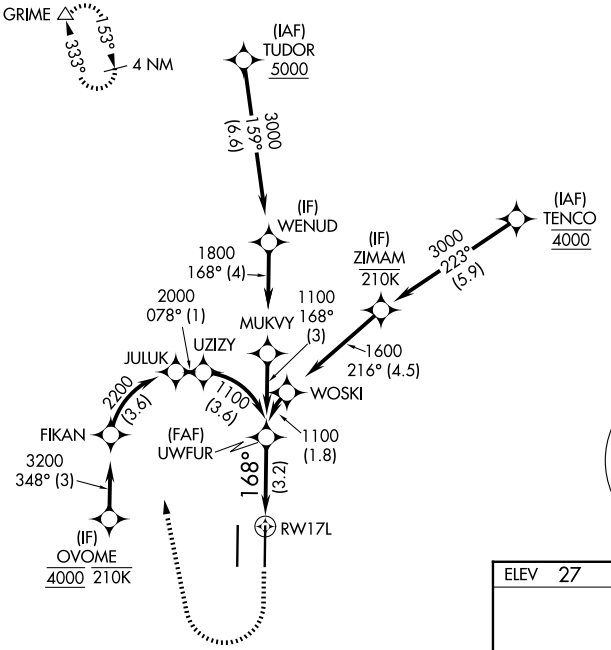
RNP AR APCH-GPS.

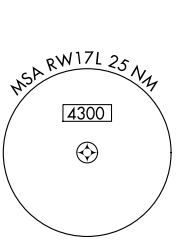
For uncompensated Baro-VNAV systems, procedure NA below -2°C or above 54°C. For inop ALS, increase RNP 0.12 all Cats visibility to RVR 4000; increase RNP 0.30 all Cats visibility to RVR 4500.

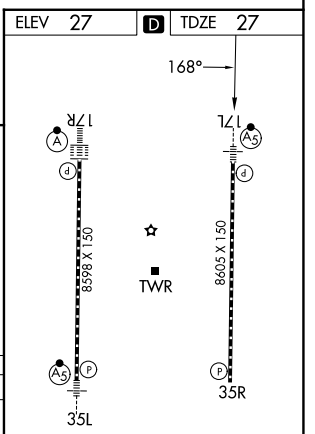
MALSR

MISSED APPROACH: Climb to 500 then right turn to 3000 direct GRIME and hold.
*Missed approach requires minimum climb of 290 feet per NM to 3000.
#Missed approach requires minimum climb of 300 feet per NM to 3000.

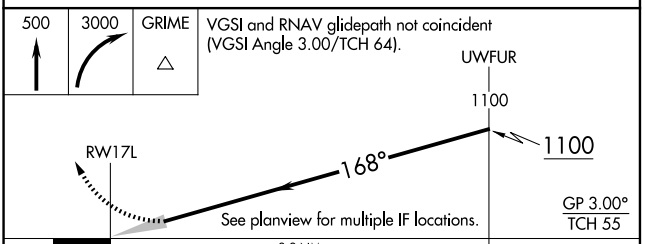
D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7







TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R



CATEGORY	A	B	C	D
RNP 0.12 DA#	277/24 250 (300-½)			
RNP 0.30 DA*	339/24 312 (400-½)			

AUTHORIZATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (RNP) Z RWY 17R

SACRAMENTO INTL (SMF)

APP CRS	Rwy Ldg	8598
168°	TDZE	25
	Apt Elev	27

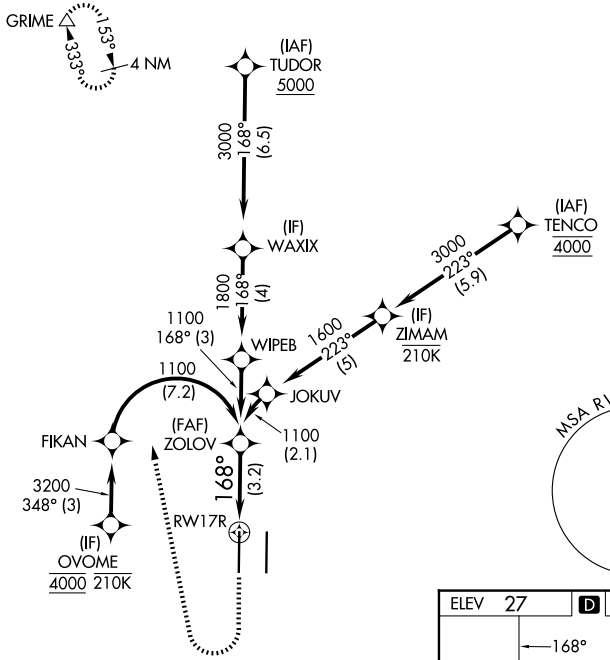
RNP AR APCH-GPS.

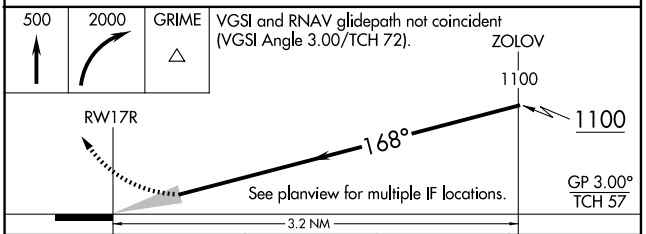
For uncompensated Baro-VNAV systems, procedure NA below -2°C or above 54°C. For inop ALS, increase RNP 0.10 all Cats visibility to RVR 4000; increase RNP 0.18 all Cats visibility to RVR 4500 and RNP 0.30 all Cats visibility to RVR 5500.

ALSF-2

MISSED APPROACH: Climb to 500 then climbing right turn to 2000 direct GRIME and hold.

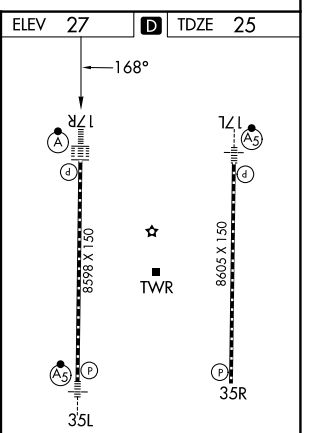
D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7





CATEGORY	A	B	C	D
RNP 0.10 DA	275/24 250 (300-½)			
RNP 0.18 DA	326/24 301 (300-½)			
RNP 0.30 DA	385/30 360 (400-⅝)			

AUTHORIZATION REQUIRED



TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	8598
348°	TDZE	24
	Apt Elev	27

RNAV (RNP) Z RWY 35L

SACRAMENTO INTL (SMF)

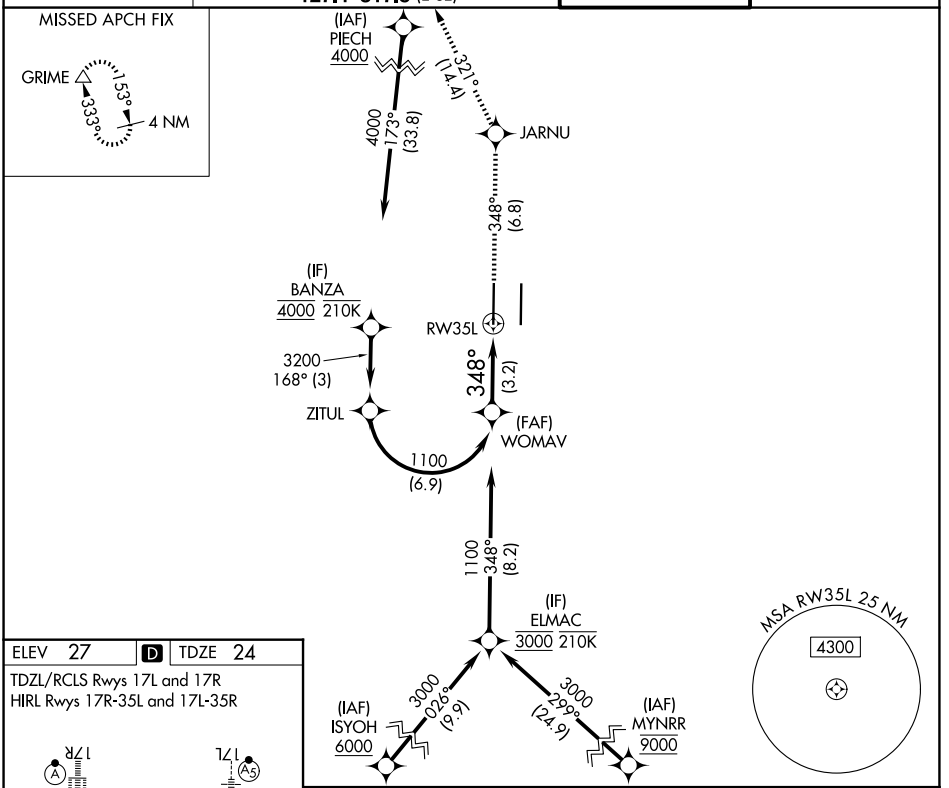
RNP AR APCH-GPS.

T For uncompensated Baro-VNAV systems, procedure NA below -2°C or above 54°C. For inop ALS, increase RNP 0.12 all Cats visibility to RVR 4500; increase RNP 0.30 all Cats visibility to RVR 5500.

MALSR

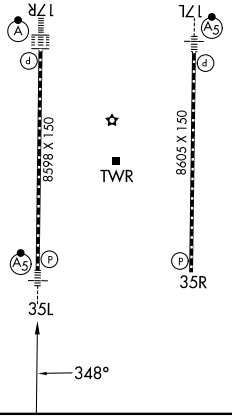
MISSED APPROACH: Climb to 2000 on track 348° to JARNU and track 321° to GRIME and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7



ELEV 27 D TDZE 24

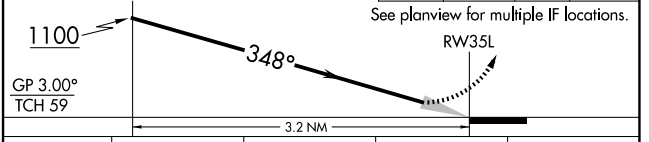
TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 76).

2000 tr 348° JARNU tr 321° GRIME

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.12 DA	318/24		294 (300-½)	
RNP 0.30 DA	382/30		358 (400-⅝)	

AUTHORIZATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SACRAMENTO, CALIFORNIA AL-5490 (FAA) 26022

APP CRS	Rwy Ldg	8605
348°	TDZE	24
	Apt Elev	27

RNAV (RNP) Z RWY 35R

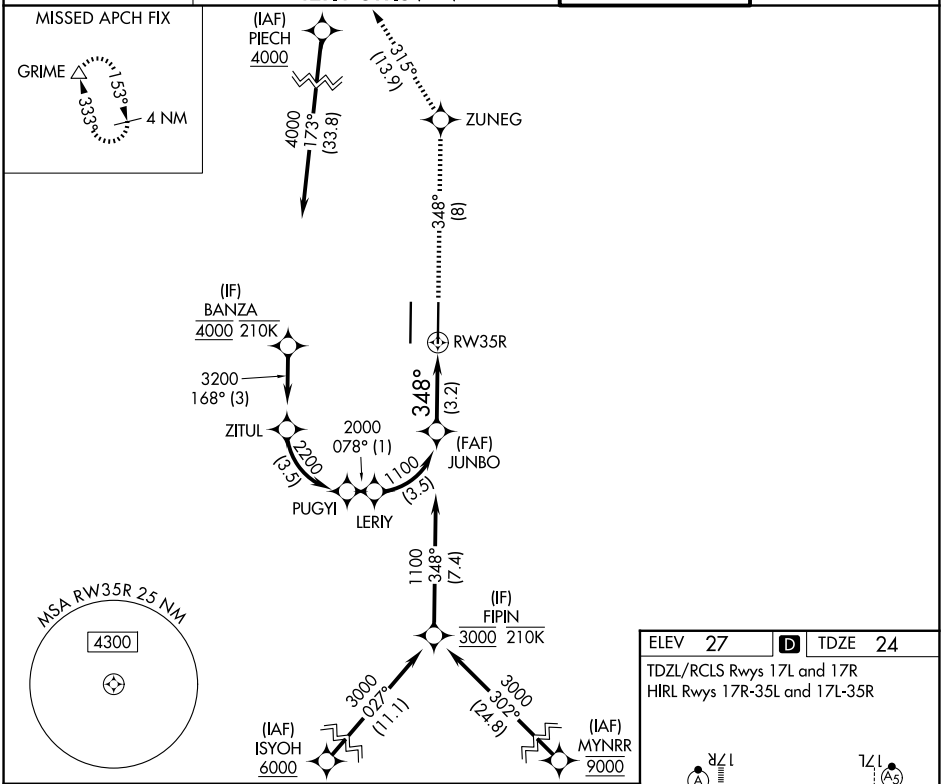
SACRAMENTO INTL (SMF)

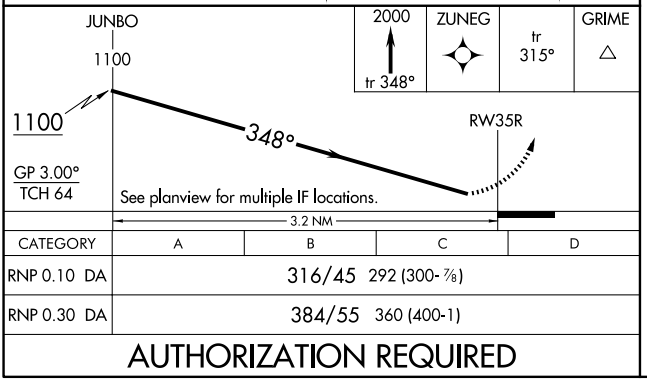
RNP AR APCH-GPS.

For uncompensated Baro-VNAV systems, procedure NA below -2°C or above 54°C.

MISSED APPROACH: Climb to 2000 on track 348° to ZUNEG and on track 315° to GRIME and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7





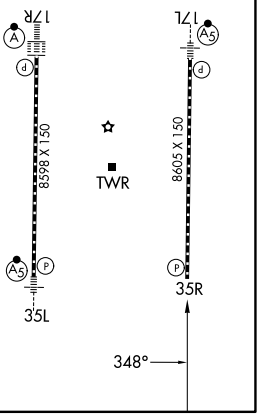
CATEGORY	A	B	C	D
RNP 0.10 DA	316/45	292 (300- ⅞)		
RNP 0.30 DA	384/55	360 (400-1)		

AUTHORIZATION REQUIRED

ELEV 27 D TDZE 24

TDZL/RCLS Rwys 17L and 17R

HIRL Rwys 17R-35L and 17L-35R



SACRAMENTO, CALIFORNIA

Amdt 2 24MAR22

38°42'N-121°35'W

SACRAMENTO INTL (SMF)

RNAV (RNP) Z RWY 35R

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 78327 W17B	APP CRS 168°	Rwy Ldg 8605 / TDZE 27 / Apt Elev 27

RNAV (GPS) Y RWY 17L

SACRAMENTO INTL (SMF)

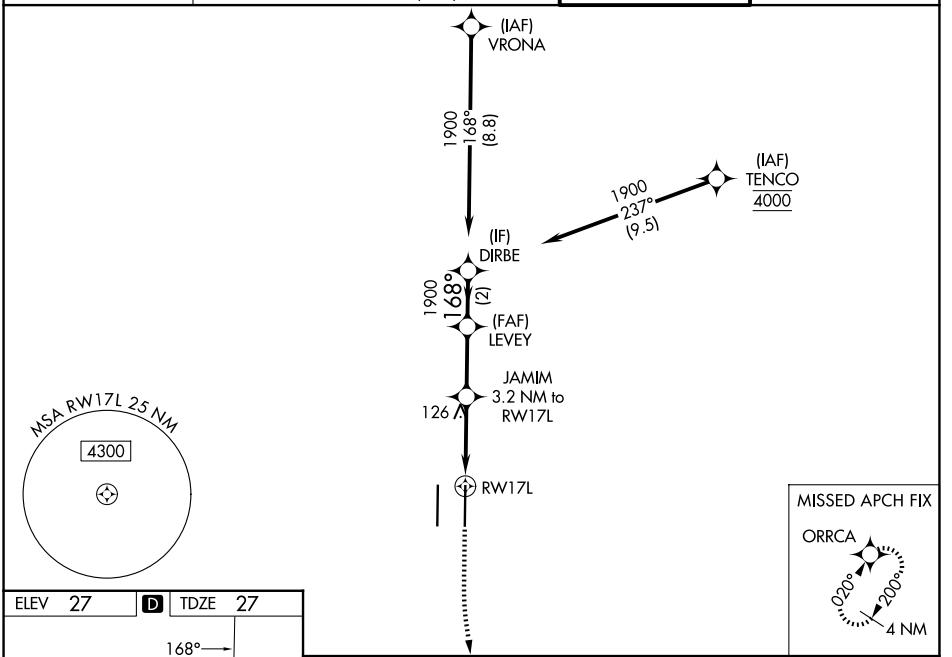
RNP APCH - GPS.

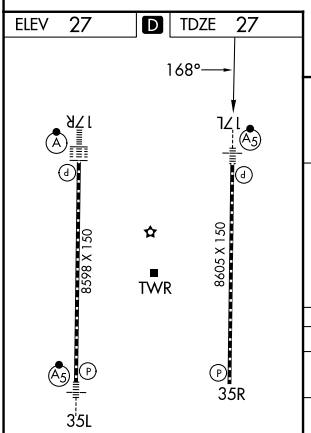
Circling NA west of Rwy 17L-35R. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP required during simultaneous operations. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to RVR 4000 and LNAV C/D visibility to RVR 5500.

MALSR

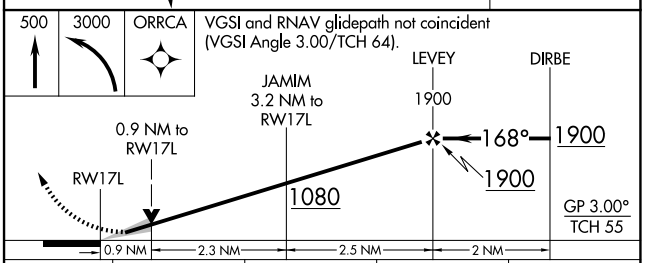
MISSED APPROACH: Climb to 500 then climbing left turn to 3000 direct ORRCA and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7





TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R



CATEGORY	A	B	C	D
LPV DA	227/18 200 (200-½)			
LNAV/VNAV DA	277/24 250 (300-½)			
LNAV MDA	380/24 353 (400-½)		380/30 353 (400-⅝)	
CIRCLING	400-1 373 (400-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	840-2¾ 813 (900-2¾)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SACRAMENTO, CALIFORNIA AL-5490 (FAA) 26022

WAAS	APP CRS	Rwy Ldg	8598
CH 65728	168°	TDZE	25
W17A		Apt Elev	27

RNAV (GPS) Y RWY 17R

SACRAMENTO INTL (SMF)

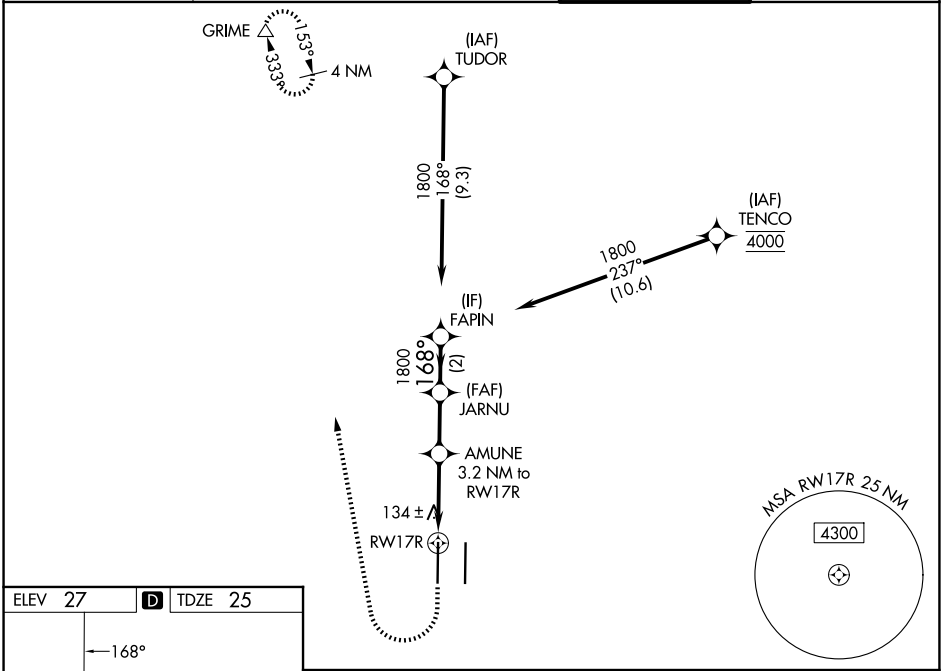
RNP APCH - GPS.

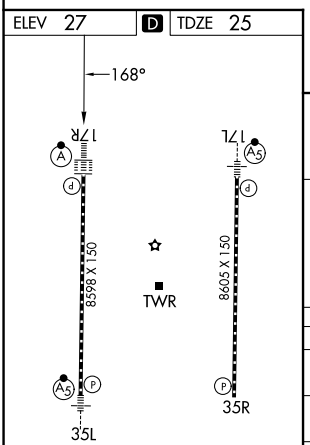
T Circling NA east of Rwy 17R-35L. Simultaneous approach authorized. Use of FD or AP required during simultaneous operations. LNAV procedure NA during simultaneous operations. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to RVR 4500 and LNAV all Cats visibility to RVR 5500.

ALSF-2

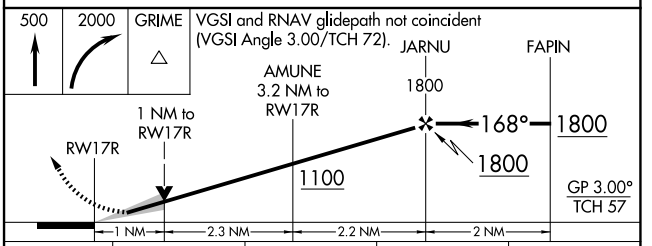
MISSED APPROACH: Climb to 500 then climbing right turn to 2000 direct GRIME and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7





TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R



CATEGORY	A	B	C	D
LPV DA	225/18 200 (200-½)			
LNAV/VNAV DA	323/24 298 (300-½)			
LNAV MDA	400/24 375 (400-½)		400/35 375 (400-⅝)	
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)

SACRAMENTO, CALIFORNIA

Amdt 2D 23FEB23

38°42'N-121°35'W

SACRAMENTO INTL (SMF)

RNAV (GPS) Y RWY 17R

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 86602 W35A	APP CRS 348°	Rwy Ldg 8598	TDZE 24	Apt Elev 27

RNAV (GPS) Y RWY 35L

SACRAMENTO INTL (SMF)

RNP APCH-GPS.

T Circling NA east of Rwy 17R-35L. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to RVR 4500 and increase LNAV Cat C/D visibility to RVR 5500.
*RVR 1800 authorized with use of FD or AP or HUD to DA.

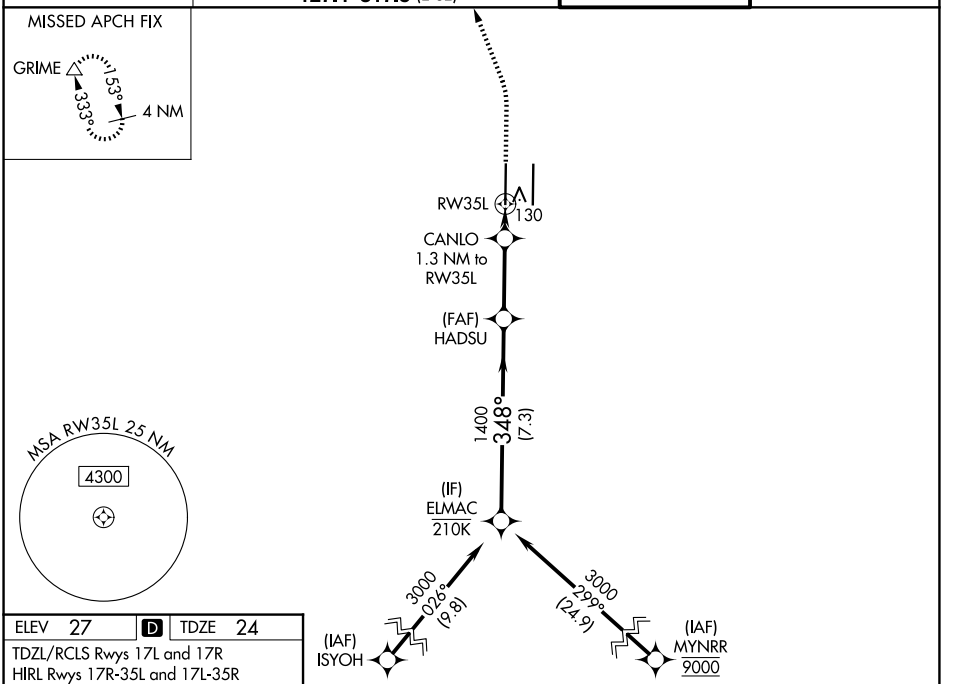
MALSR (A5)

MISSED APPROACH: Climb to 800 then climbing left turn to 2000 direct GRIME and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7

MISSED APCH FIX

GRIME 153° 333° 4 NM

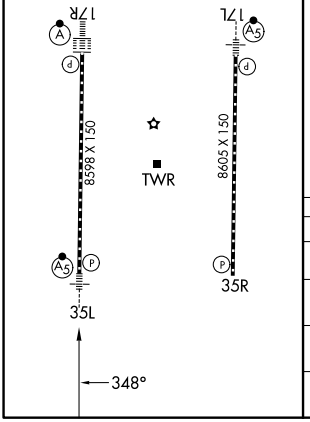


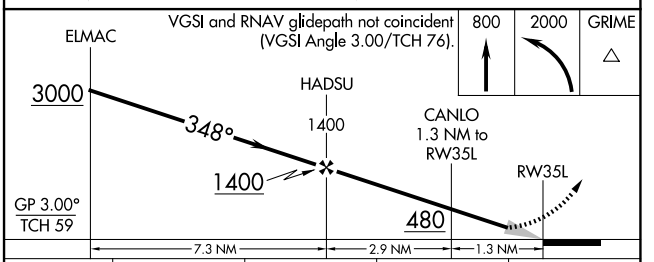
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ELEV 27 D TDZE 24

TDZL/RCLS Rwys 17L and 17R
HIRL Rwys 17R-35L and 17L-35R





CATEGORY	A	B	C	D
LPV DA*	224/24 200 (200-½)			
LNAV/VNAV DA	311/24 287 (300-½)			
LNAV MDA	380/24 356 (400-½)		380/30 356 (400-⅝)	
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)

SACRAMENTO, CALIFORNIA | AL-5490 (FAA) | 26022

APP CRS	Rwy Ldg	8605
348°	TDZE	24
	Apt Elev	27

RNAV (GPS) Y RWY 35R

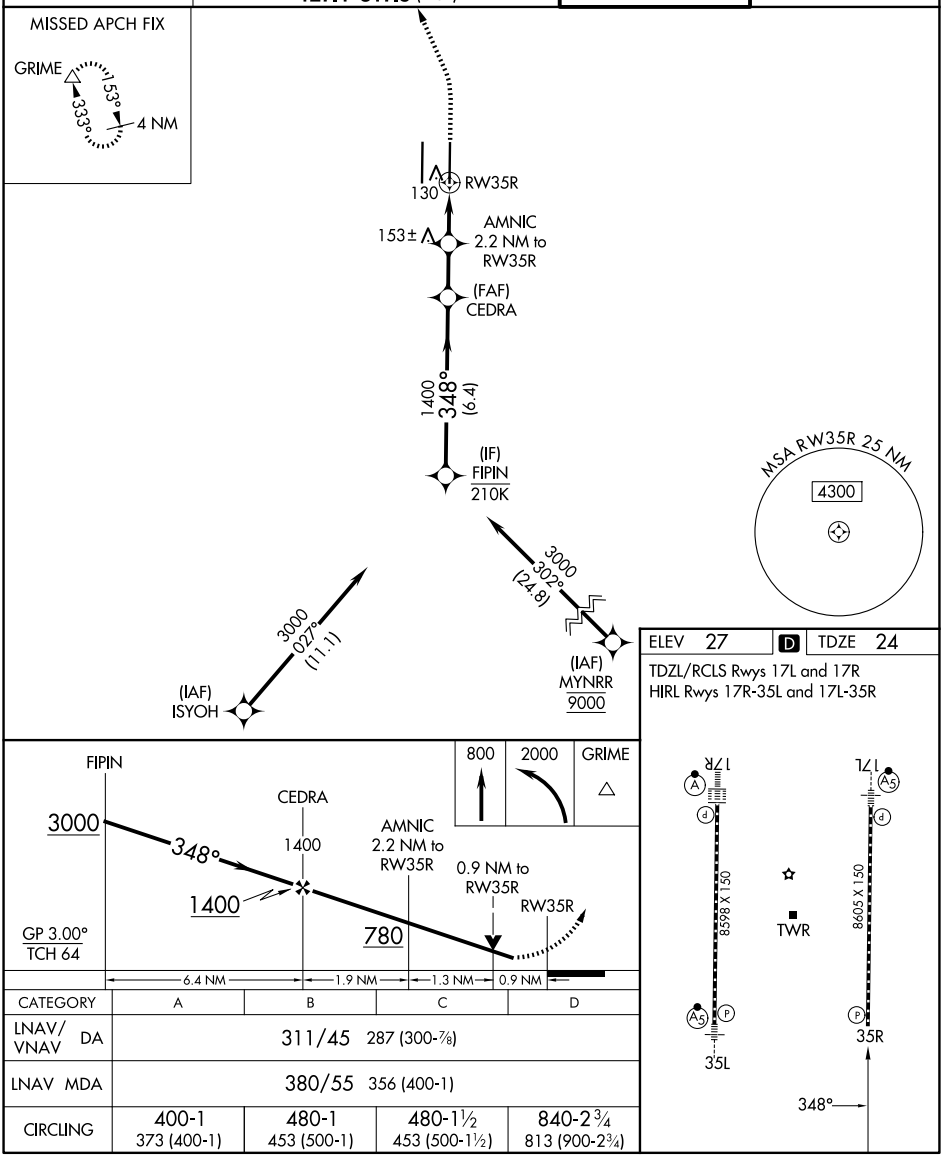
SACRAMENTO INTL (SMF)

RNP APCH-GPS.

Circling NA west of Rwy 17L-35R. Rwy 35R helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C or above 54°C.

MISSED APPROACH: Climb to 800 then climbing left turn to 2000 direct GRIME and hold.

D-ATIS	NORCAL APP CON	CAPITOL TOWER	GND CON
126.75	125.4 259.1 (W-NE) 125.25 257.9 (SW) 127.4 317.5 (E-SE)	125.7 256.7	121.7 256.7



CATEGORY	A	B	C	D
LNAV/VNAV DA	311/45 287 (300-⅞)			
LNAV MDA	380/55 356 (400-1)			
CIRCLING	400-1 373 (400-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	840-2¾ 813 (900-2¾)

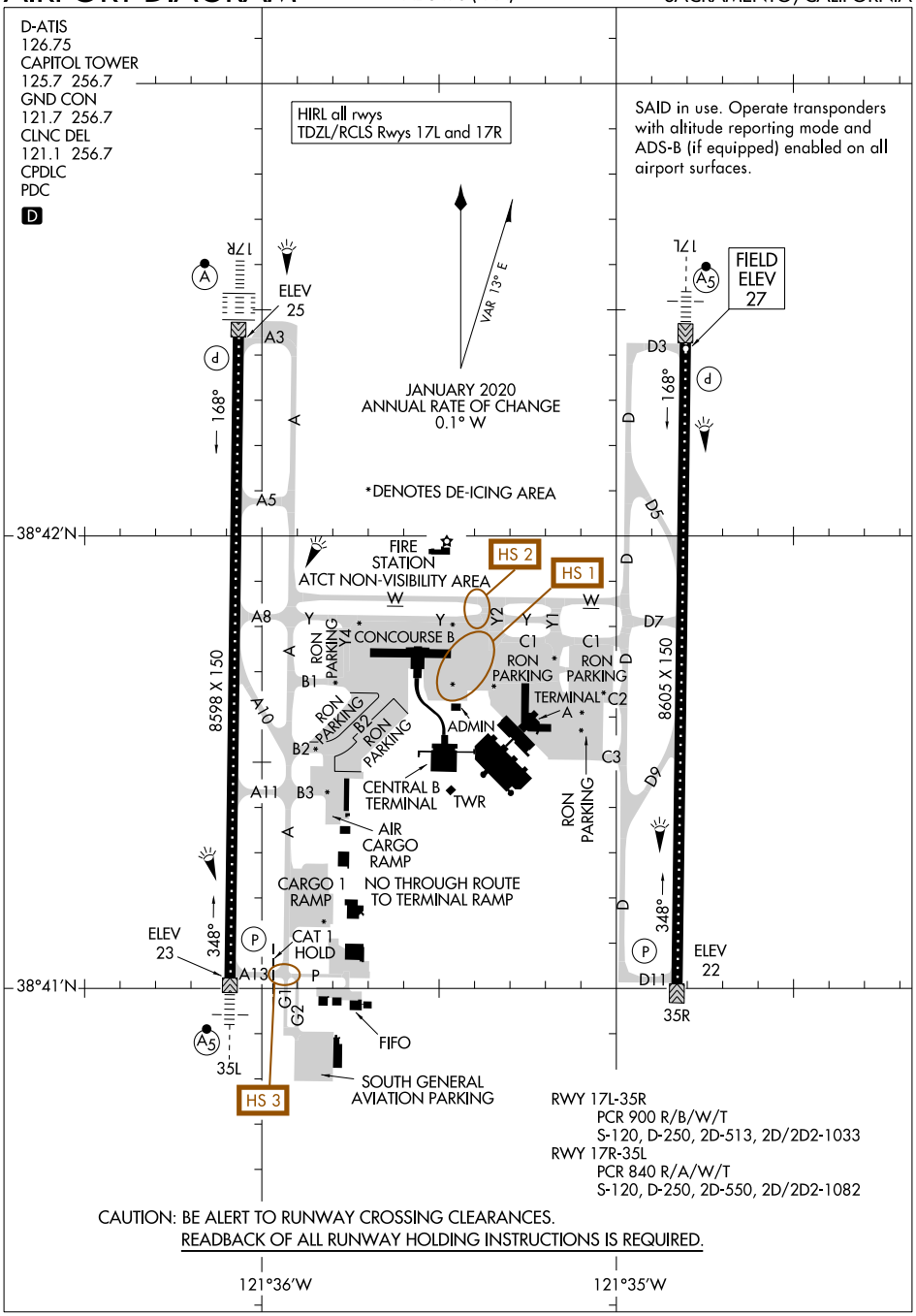
SACRAMENTO, CALIFORNIA
Amdt 2A 23FEB23

38°42'N-121°35'W

SACRAMENTO INTL (SMF)

RNAV (GPS) Y RWY 35R

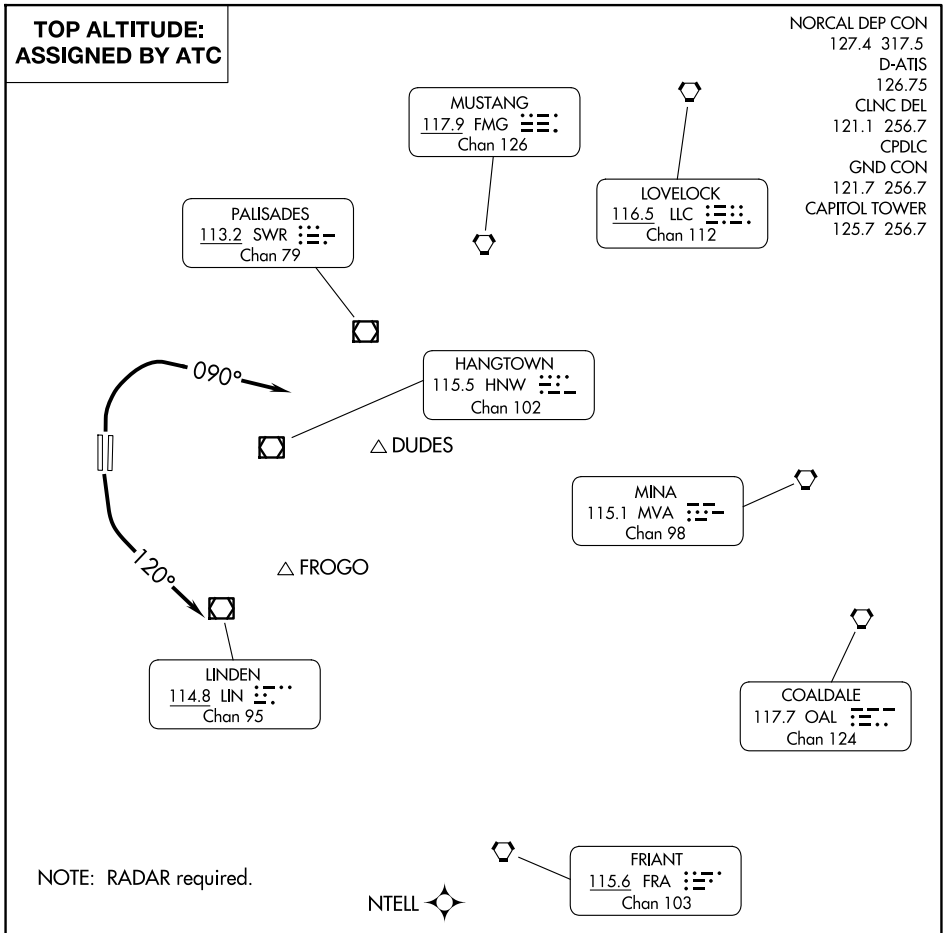
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026


D-ATIS
126.75
CAPITOL TOWER
125.7 256.7
GND CON
121.7 256.7
CLNC DEL
121.1 256.7
CPDLC
PDC
D
HIRL all rwys
TDZL/RCLS Rwys 17L and 17R
SAID in use. Operate transponders with altitude reporting mode and ADS-B (if equipped) enabled on all airport surfaces.
17R
17L
ELEV 25
FIELD ELEV 27
VAR 13° E
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
168°
348°
*DENOTES DE-ICING AREA
38°42'N
38°41'N
FIRE STATION
ATCT NON-VISIBILITY AREA
HS 1
HS 2
HS 3
CONCOURSE B
TERMINAL A
ADMIN
CENTRAL B TERMINAL
TWR
RON PARKING
AIR CARGO RAMP
CARGO 1 RAMP
NO THROUGH ROUTE TO TERMINAL RAMP
CAT 1 HOLD
FIFO
SOUTH GENERAL AVIATION PARKING
8598 X 150
8605 X 150
ELEV 23
ELEV 22
35L
35R
121°36'W
121°35'W
RWY 17L-35R
PCR 900 R/B/W/T
S-120, D-250, 2D-513, 2D/2D2-1033
RWY 17R-35L
PCR 840 R/A/W/T
S-120, D-250, 2D-550, 2D/2D2-1082
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

(FROGO1.FROGO) 24025
FROGO ONE DEPARTURE

AL-5490 (FAA)

SACRAMENTO INTL (SMF)
SACRAMENTO, CALIFORNIA



NOTE: RADAR required.

TAKEOFF MINIMUMS

Rwys 17R, 35L/R: Standard.
Rwy 17L: Standard with minimum climb of 220′ per NM to 700.

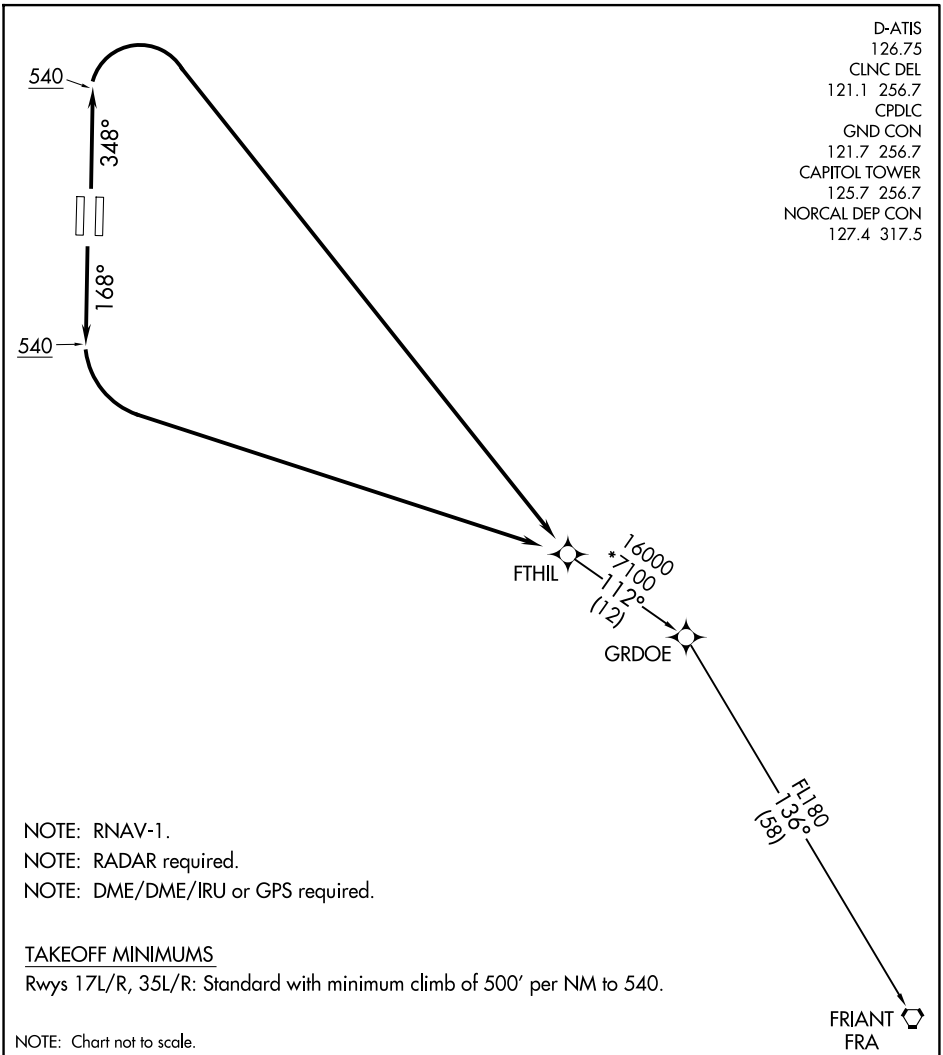
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17L/R: Climbing left turn heading 120°, or as assigned by ATC, for RADAR vectors to assigned route/fix, thence. . . .
TAKEOFF RUNWAYS 35L/R: Climbing right turn heading 090°, or as assigned by ATC, for RADAR vectors to assigned route/fix, thence. . . .

. . . .maintain ATC assigned altitude. Expect filed altitude ten minutes after departure.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026



NOTE: RNAV-1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.

TAKEOFF MINIMUMS
Rwys 17L/R, 35L/R: Standard with minimum climb of 500′ per NM to 540.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17L/R: Climb on heading 168° to 540, then left turn direct FTHIL. Thence. . . .
TAKEOFF RUNWAYS 35L/R: Climb on heading 348° to 540, then right turn direct FTHIL. Thence. . . .

. . . . on transition. Maintain FL190. Expect filed altitude 10 minutes after departure.

FRIANT TRANSITION (FTHIL3.FRA)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RVRCT FOUR DEPARTURE (RNAV)

(RVRCT4.RVRCT) 19MAY22

SACRAMENTO, CALIFORNIA

SACRAMENTO INTL (SMF)

TOP ALTITUDE: ASSIGNED BY ATC

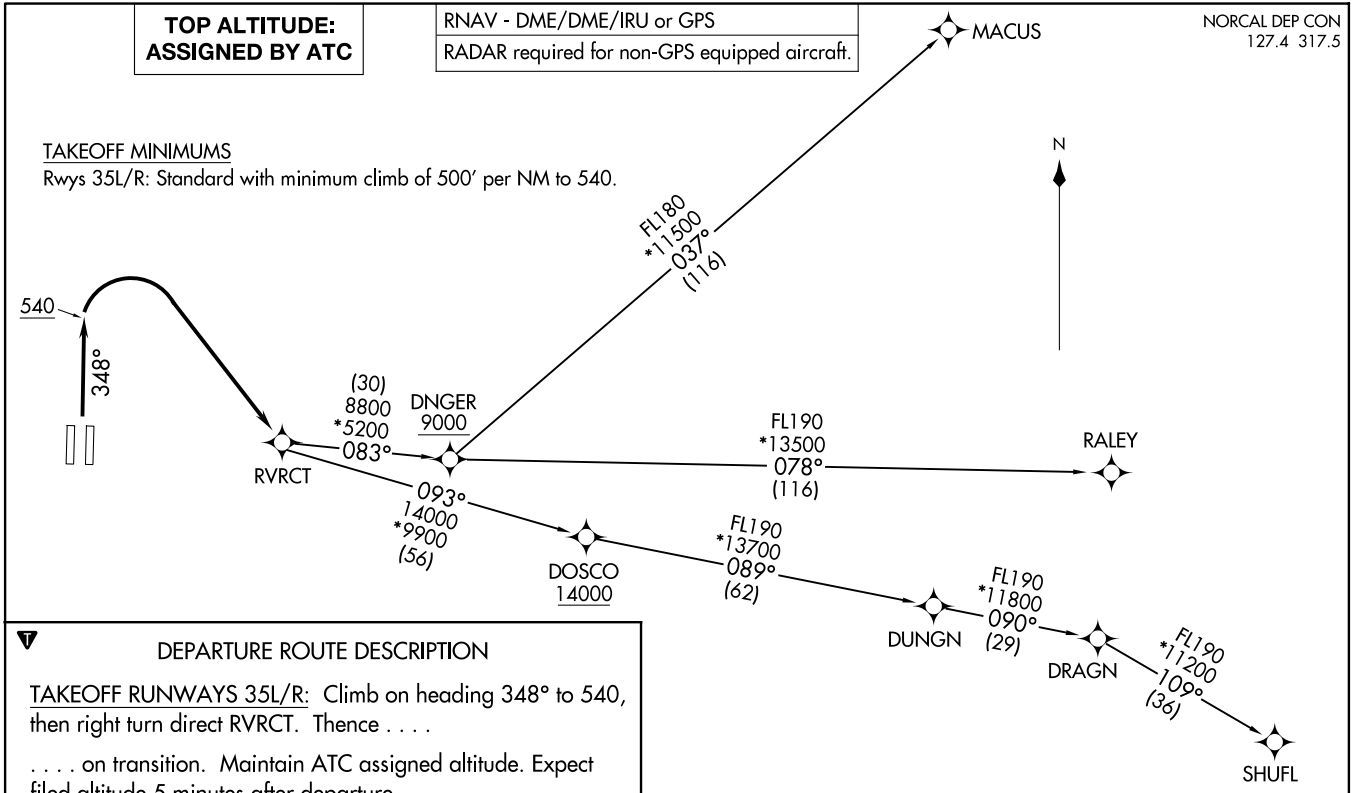
RNAV - DME/DME/IRU or GPS

RADAR required for non-GPS equipped aircraft.

NORCAL DEP CON
127.4 317.5

TAKEOFF MINIMUMS

Rwys 35L/R: Standard with minimum climb of 500′ per NM to 540.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 35L/R: Climb on heading 348° to 540, then right turn direct RVRCT. Thence . . . .

. . . . on transition. Maintain ATC assigned altitude. Expect filed altitude 5 minutes after departure.

MACUS TRANSITION (RVRCT4.MACUS)

RALEY TRANSITION (RVRCT4.RALEY)

SHUFL TRANSITION (RVRCT4.SHUFL)

NOTE: Chart not to scale.

(RVRCT4.RVRCT) 22139

AL-5490 (FAA)

SACRAMENTO, CALIFORNIA

SACRAMENTO INTL (SMF)

SCTWN FOUR DEPARTURE (RNAV)

(SCTWN4.SCTWN) 19MAY22

SACRAMENTO, CALIFORNIA

SACRAMENTO INTL (SMF)

SCTWN FOUR DEPARTURE (RNAV)

(SCTWN4.SCTWN) 22139

SACRAMENTO INTL (SMF)

SACRAMENTO, CALIFORNIA

AL-5490 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

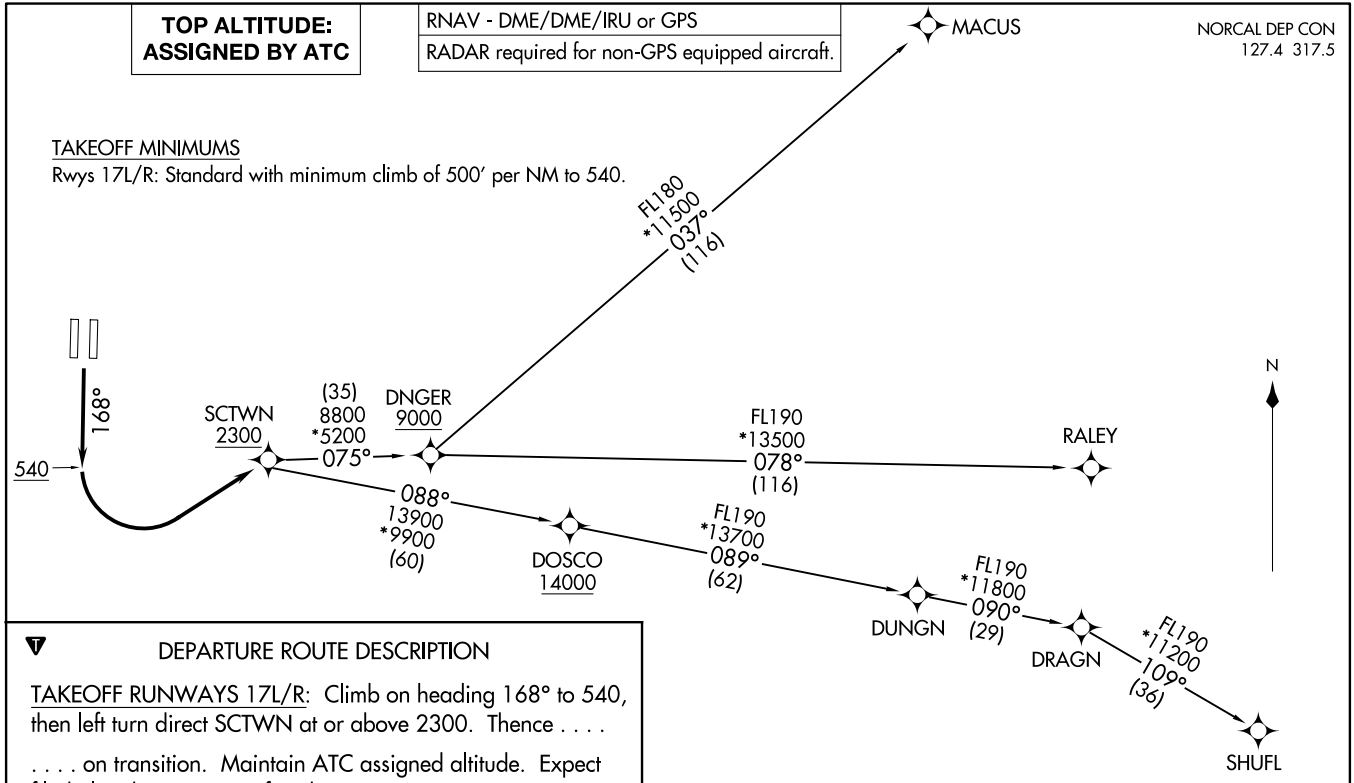
RNAV - DME/DME/IRU or GPS

RADAR required for non-GPS equipped aircraft.

NORCAL DEP CON
127.4 317.5

TAKEOFF MINIMUMS

Rwys 17L/R: Standard with minimum climb of 500′ per NM to 540.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17L/R: Climb on heading 168° to 540, then left turn direct SCTWN at or above 2300. Thence . . . .

. . . . on transition. Maintain ATC assigned altitude. Expect filed altitude 5 minutes after departure.

MACUS TRANSITION (SCTWN4.MACUS)

RALEY TRANSITION (SCTWN4.RALEY)

SHUFL TRANSITION (SCTWN4.SHUFL)

NOTE: Chart not to scale.

ILS Y or LOC Y RWY 22L

SACRAMENTO MATHER (MHR)

LOC/DME I-MHR	APP CRS	Rwy Ldg 11301
111.35	221°	TDZE 98
Chan 50 (Y)		Apt Elev 98

TACAN required for procedure entry at BAB TACAN. For non-TACAN equipped aircraft, DME required.

T A Circling NA northwest of Rwy 4R-22L. For inop ALS, increase S-ILS Cat E visibility to RVR 4000 and S-LOC Cat C/D/E visibility to RVR 6000. *RVR 1800 authorized with use of FD or AP or HUD to DA. (NA when using Sacramento Exec altimeter setting).

MALSR

MISSED APPROACH: Climb to 1000, then climbing left turn to 3500 on heading 090° and SAC VORTAC R-058 to COSKA INT/ SAC 24.2 DME and hold, continue climb-in-hold to 3500.

ATIS	NORCAL APP CON	MATHER TOWER ★	GND CON	UNICOM
118.325	127.4 317.5	120.65 (CTAF) L 282.25	121.85 307.9	122.95

ALTERNATE MISSED APCH FIX

COSKA LIN 28.4
158°
338°
R-338
114.8 LIN
Chan 95

MSA SAC 25 NM
130°
040°
4100
3100

BEALE Chan 23 BAB (108.6)

3000
133° (25.5)

(IAF) MOHOK BAB 25.5

2700
133° (6.7)

(IF) NANEY I-MHR 13.4

BAB 32.2

SAC 25.8

R-133
041°
2100
221°
(4.8)

1800
(1.3)

LOCALIZER 111.35 I-MHR Chan 50(Y)

ERNIF I-MHR 8.6

GADBE I-MHR 7.3

235

JEKAX I-MHR 4.2

SACRAMENTO 115.2 SAC Chan 99

R-058

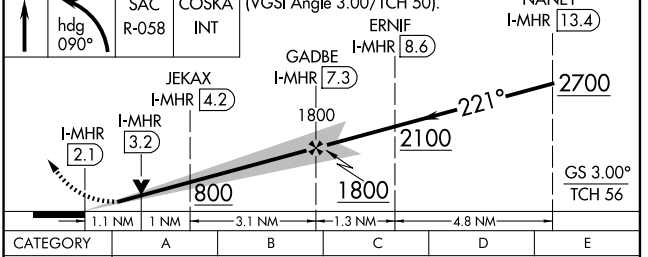
058°
238°
COSKA INT SAC 24.2

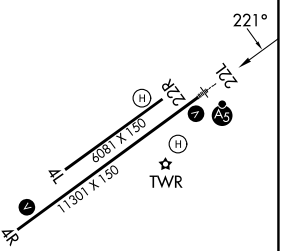
R-338
114.8 LIN
Chan 95

ELEV 98	TDZE 98

1000	3500 hdg 090°	SAC R-058	COSKA INT

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 50).





CATEGORY	A	B	C	D	E
S-ILS 22L	298/24 200 (200-½)				
S-LOC 22L	500/24 402 (500-½)		500/40 402 (500-¾)		
CIRCLING	560-1 462 (500-1)		600-1½ 502 (600-1½)	800-2¼ 702 (800-2¼)	800-2½ 702 (800-2½)

HIRL Rwy 4R-22L L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS Z or LOC Z RWY 22L

SACRAMENTO MATHER (MHR)

LOC/DME I-MHR	APP CRS	Rwy Ldg	11301
111.35	221°	TDZE	98
Chan 50 (Y)		Apt Elev	98

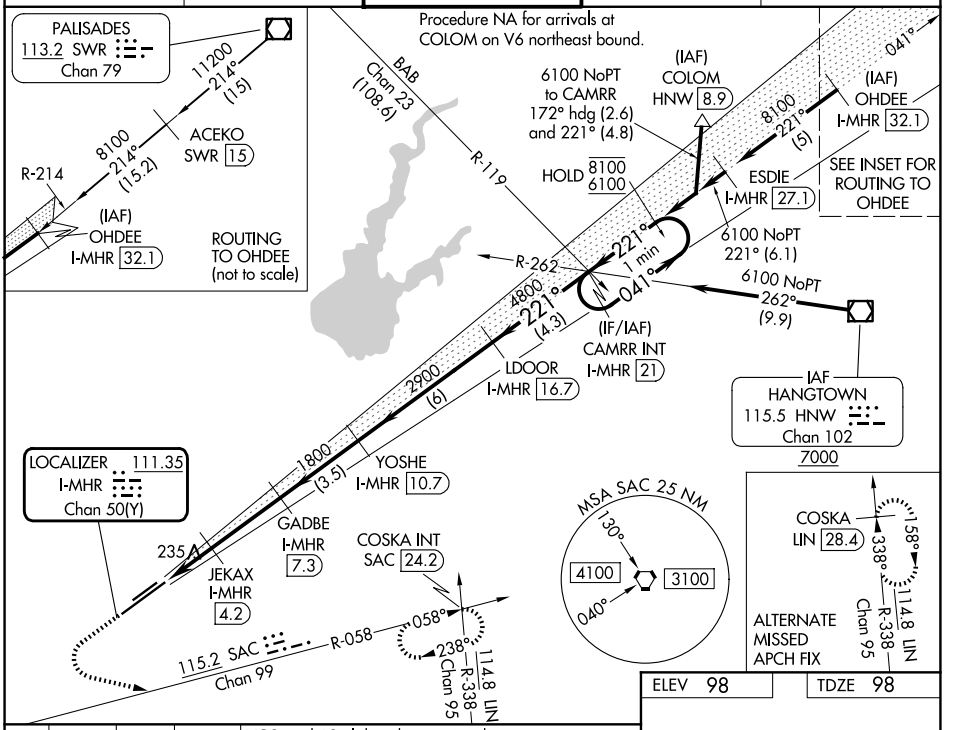
DME required for LOC only.

For inop ALS, increase S-ILS Cat E visibility to RVR 4000 and S-LOC Cat C/D/E visibility to RVR 6000. Circling NA northwest of Rwy 4R-22L.
*RVR 1800 authorized with use of FD or AP or HUD to DA (NA when using Sacramento Exec altimeter setting).

MALSR

MISSED APPROACH: Climb to 1000, then climbing left turn to 3500 on heading 090° and SAC VORTAC R-058 to COSKA INT/ SAC 24.2 DME and hold, continue climb-in-hold to 3500.

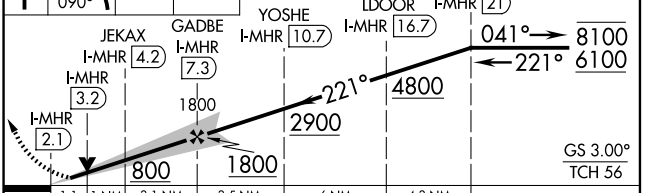
ATIS	NORCAL APP CON	MATHER TOWER ★	GND CON	UNICOM
118.325	127.4 317.5	120.65 (CTAF) L 282.25	121.85 307.9	122.95



1000	3500 hdg 090°	SAC R-058	COSKA INT

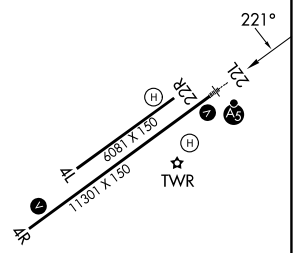
VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 50).

One Minute Holding Pattern



CATEGORY	A	B	C	D	E
S-ILS 22L*	298/24 200 (200-½)				
S-LOC 22L	500/24 402 (500-½)		500/40 402 (500-¾)		
CIRCLING	560-1 462 (500-1)		600-1½ 502 (600-1½)	800-2¼ 702 (800-2¼)	800-2½ 702 (800-2½)

ELEV 98 TDZE 98



HIRL Rwy 4R-22L L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS Z RWY 22L (SA CAT I & II)

SACRAMENTO MATHER (MHR)

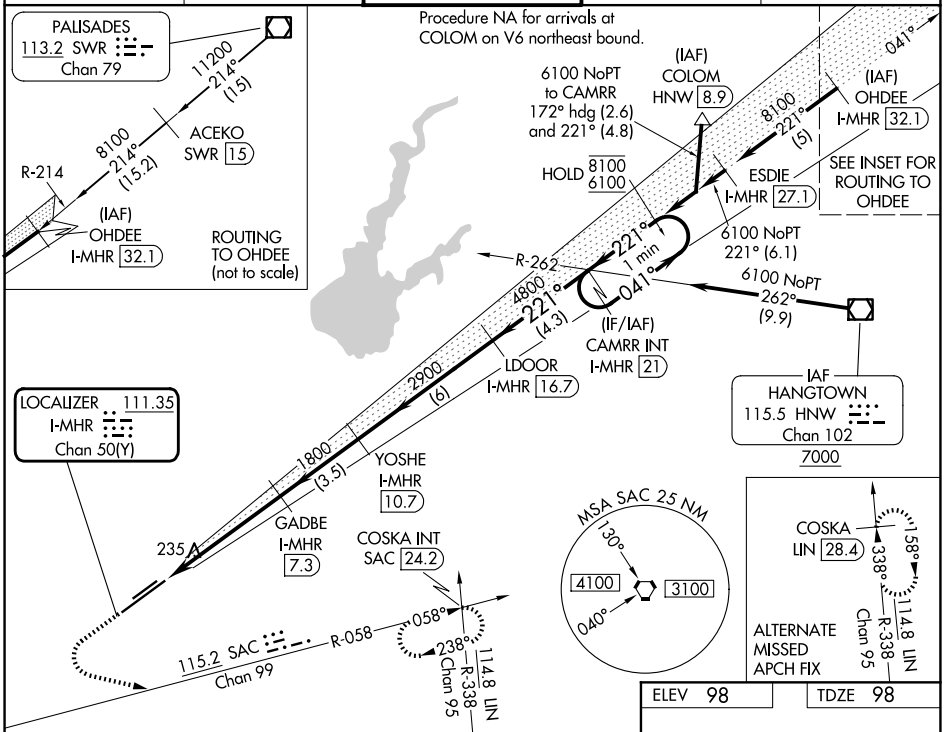
LOC/DME I-MHR	APP CRS	Rwy Ldg	11301
111.35	221°	TDZE	98
Chan 50 (Y)		Apt Elev	98

T A Requires specific OPSPEC, MSPEC, or LOA approval. Procedure NA when tower closed.

MALSR

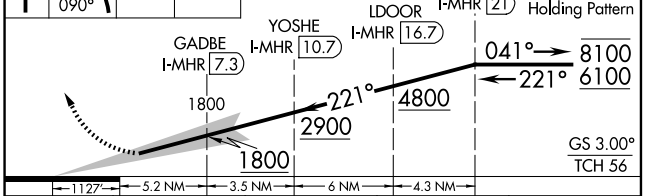
MISSED APPROACH: Climb to 1000, then climbing left turn to 3500 on heading 090° and SAC VORTAC R-058 to COSKA INT/SAC 24.2 DME and hold, continue climb-in-hold to 3500.

ATIS	NORCAL APP CON	MATHER TOWER ★	GND CON	UNICOM
118.325	127.4 317.5	120.65 (CTAF) L 282.25	121.85 307.9	122.95



1000	3500 hdg 090°	SAC R-058	COSKA INT

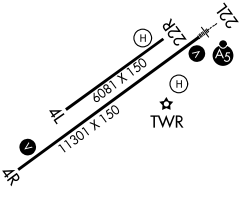
VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 50).



CATEGORY	A	B	C	D
S-ILS 22L	SA CAT I	RA 136/14 150	DA 248	
S-ILS 22L	SA CAT II	RA 95/12 100	DA 198	

SA CATEGORY I & II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ELEV 98 TDZE 98



HIRL Rwy 4R-22L L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 45601 W04A	APP CRS 041°	Rwy Ldg 11301 TDZE 81 Apt Elev 98

RNAV (GPS) RWY 4R

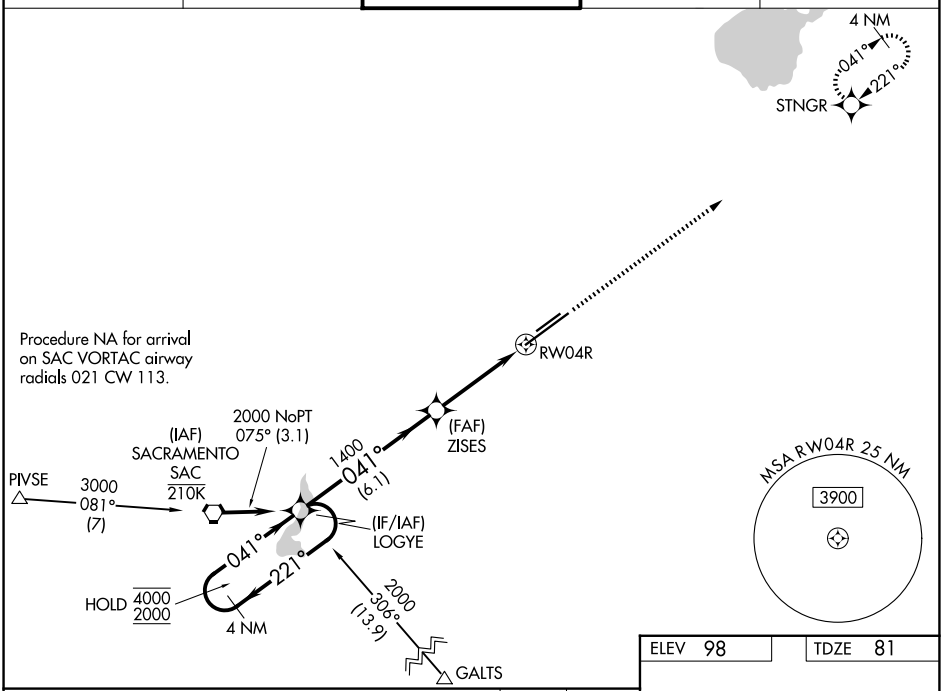
SACRAMENTO MATHER (MHR)

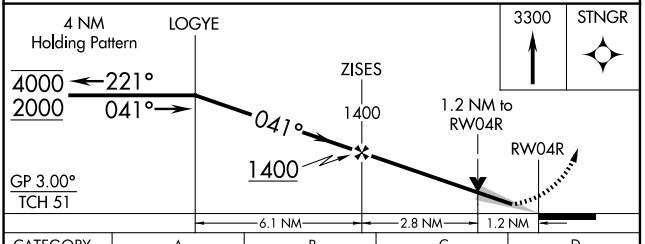
RNP APCH - GPS.

Circling NA northwest of Rwy 4R-22L. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

MISSED APPROACH: Climb to 3300 direct STNGR and hold.
*Missed approach requires minimum climb of 210 feet per NM to 2500.

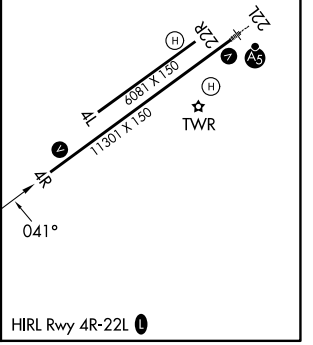
ATIS	NORCAL APP CON	MATHER TOWER ★	GND CON	UNICOM
118.325	127.4 317.5	120.65 (CTAF) L 282.25	121.85 307.9	122.95





CATEGORY	A	B	C	D
LPV DA*	331/40 250 (300-¾)			
LNAV/VNAV DA*	365/45 284 (300-⅞)			
LNAV MDA*	520/55 439 (500-1)		520-1¼ 439 (500-1¼)	
LNAV MDA	540/55 459 (500-1)	560/55 479 (500-1)	580-1⅜ 499 (500-1⅜)	
CIRCLING	560-1 462 (500-1)	580-1 482 (500-1)	600-1½ 502 (600-1½)	740-2 642 (700-2)

ELEV 98 TDZE 81



HIRL Rwy 4R-22L L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 22L

SACRAMENTO MATHER (MHR)

WAAS CH 40225 W22A	APP CRS 221°	Rwy Ldg 11301 TDZE 98 Apt Elev 98

RNP APCH.

Circling NA northwest of Rwy 4R-22L. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to 1⅛ SM and LNAV Cat C/D visibility to 1⅜ SM.

MALSR

MISSED APPROACH: Climb to 3000 direct XAKBE and on track 233° to SAC VORTAC and hold.

ATIS	NORCAL APP CON	MATHER TOWER ★	GND CON	UNICOM
118.325	127.4 317.5	120.65 (CTAF) L 282.25	121.85 307.9	122.95

MISSED APCH FIX

SACRAMENTO SAC

049° 229° 4 NM

Procedure NA for arrivals at HAGAN on V392-494 northbound.

HAGAN (12.2) 158° 4300

Procedure NA for arrivals on HNW VOR/DME airway radials 180 CW 303.

4 NM HOLD 041° 221° 6000 3500

HANGTOWN HNW 5200 249° (15)

2600 221° (3.4) (IF/IAF) STNGR

JASOD 1800 221° (4.1) (FAF) GADBE

JEKAX 2.1 NM to RW22L

295± RW22L

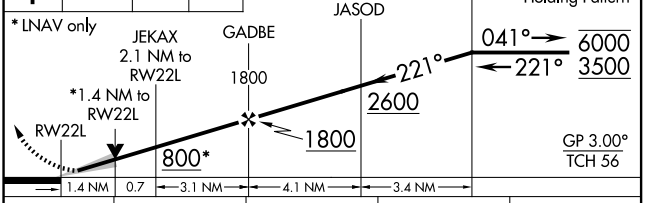
XAKBE 233° (8.2)

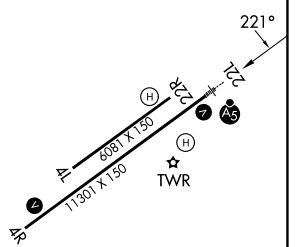
MSA RW22L 25 NM 4200

ELEV 98 TDZE 98

3000 XAKBE tr 233° SAC

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 50).





CATEGORY	A	B	C	D
LPV DA	298-½ 200 (200-½)			
LNAV/VNAV DA	517-¾ 419 (500-¾)			
LNAV MDA	580-½ 482 (500-½)		580-1 482 (500-1)	
CIRCLING	580-1 482 (500-1)		600-1½ 502 (600-1½)	800-2¼ 702 (800-2¼)

HIRL Rwy 4R-22L L

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 42943 W22B	APP CRS 221°	Rwy Ldg 6081 TDZE 94 Apt Elev 98

RNAV (GPS) RWY 22R

SACRAMENTO MATHER (MHR)

RNP APCH - GPS.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. Circling NA northwest of Rwy 4L-22R. Procedure NA at night.

MISSED APPROACH: Climb to 500 then climb to 3000 direct SAC VORTAC and hold.

ATIS	NORCAL APP CON	MATHER TOWER ★	GND CON	UNICOM
118.325	127.4 317.5	120.65 (CTAF) L 282.25	121.85 307.9	122.95

MISSED APCH FIX

SACRAMENTO SAC

049° 229° 4 NM

(IAF) HAGAN

Procedure NA for arrivals at HAGAN on V392-494 northbound.

159° (12.1) 4000 NoPT

Procedure NA for arrival on HNW VOR/DME airway radials 180 CW 303.

HANGTOWN HNW

6000 249° (15.2)

MSA RW22R 25 NM

4200

4 NM HOLD 6000 4000

041° 221°

2600 221° (3.8)

(IF/IAF) BUZEF

1800 221° (3.8)

FIBAG

(FAF) GRDEN

321

NUMBY 2.4 NM to RW22R

RW22R

ELEV 98 TDZE 94

500 3000 SAC

BUZEF FIBAG GRDEN NUMBY 2.4 NM to RW22R

4 NM Holding Pattern

041° 6000 221° 4000

1.6 NM to RW22R

1800 221° 2600

RW22R 900 1800

GP 3.00° TCH 45

1.6 NM 0.8 NM 2.8 NM 3.8 NM 3.8 NM

221° 22L 22R 4L 6081 X 150 11301 X 150 4R TWR A5

CATEGORY	A	B	C	D
LPV DA	294-1 200 (200-1)			
LNAV/VNAV DA	532-1¼ 438 (500-1¼)			
LNAV MDA	640-1 546 (600-1)		640-1⅝ 546 (600-1⅝)	
CIRCLING	640-1 542 (600-1)		640-1⅝ 542 (600-1⅝)	800-2¼ 702 (800-2¼)

HIRL Rwy 4R-22L L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26190

AIRPORT DIAGRAM

SACRAMENTO MATHER (MHR)

SACRAMENTO, CALIFORNIA

AL-356 (FAA)

AIRPORT DIAGRAM

SACRAMENTO, CALIFORNIA

SACRAMENTO MATHER (MHR)

26190

SW-2, 09 JUL 2026 to 03 SEP 2026

ILS RWY 31
SALINAS MUNI (SNS)

LOC I-SNS	APP CRS	Rwy Ldg	4825
108.5	315°	TDZE	82
		Apt Elev	84

DME required.

DME from SNS VORTAC. DME use requires simultaneous reception of I-SNS and SNS DME.

MALSR

MISSED APPROACH: Climb to 800, then climbing left turn to 3000 on SNS VORTAC R-275 to MARNA/SNS 10.9 DME and hold, continue climb-in-hold to 3000.

ATIS	NORCAL APP CON	SALINAS TOWER ★	GND CON	UNICOM
124.85	133.0 251.15	119.525 (CTAF) L 239.3	121.7	123.0

SALINAS 117.3 SNS Chan 120

LOCALIZER 108.5 I-SNS

Procedure NA for arrival on SNS VORTAC airway radials 083 CW 167.

R-275

6700 to AANNE 131° (22)

5900 107° (22)

R-107

315°

DEBBS SNS 15.7

FREZZ SNS 17.1

(IAF) ARTYY SNS 22

5900 NoPT SNS 22 Arc

LR-125

5400 315° (4.9)

5000 (1.4)

1 min 135° 315°

(IF/IAF) AANNE SNS 22

HOLD 7000 5900 135°

MISSED APCH FIX

MARNA SNS 10.9

095° 275° 117.3 SNS R-275 Chan 120

MSA SNS 25 NM

130° 5200 4200 040° 280° 6300

ELEV 84 TDZ 82

4825 X 150

6004 X 150

TWR

26 8 315°

800 3000 SNS R-275 MARNA SNS 10.9

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 59).

AANNE SNS 22 One Minute Holding Pattern

DEBBS SNS 15.7 FREZZ SNS 17.1 AANNE SNS 22

5000 315° 5400 135° 7000 315° 5900 5000

GS 3.00° TCH 50

15.3 NM 1.4 NM 4.9 NM

CATEGORY	A	B	C	D
S-ILS 31	302/24 220 (300-½)			

HIRL Rwy 13-31 L

MIRL Rwy 8-26 L

REIL Rwys 13 and 26 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SALINAS, CALIFORNIA | AL-363 (FAA) | 25331

APP CRS	Rwy Ldg	5608
084°	TDZE	76
	Apt Elev	84

RNAV (GPS) RWY 8

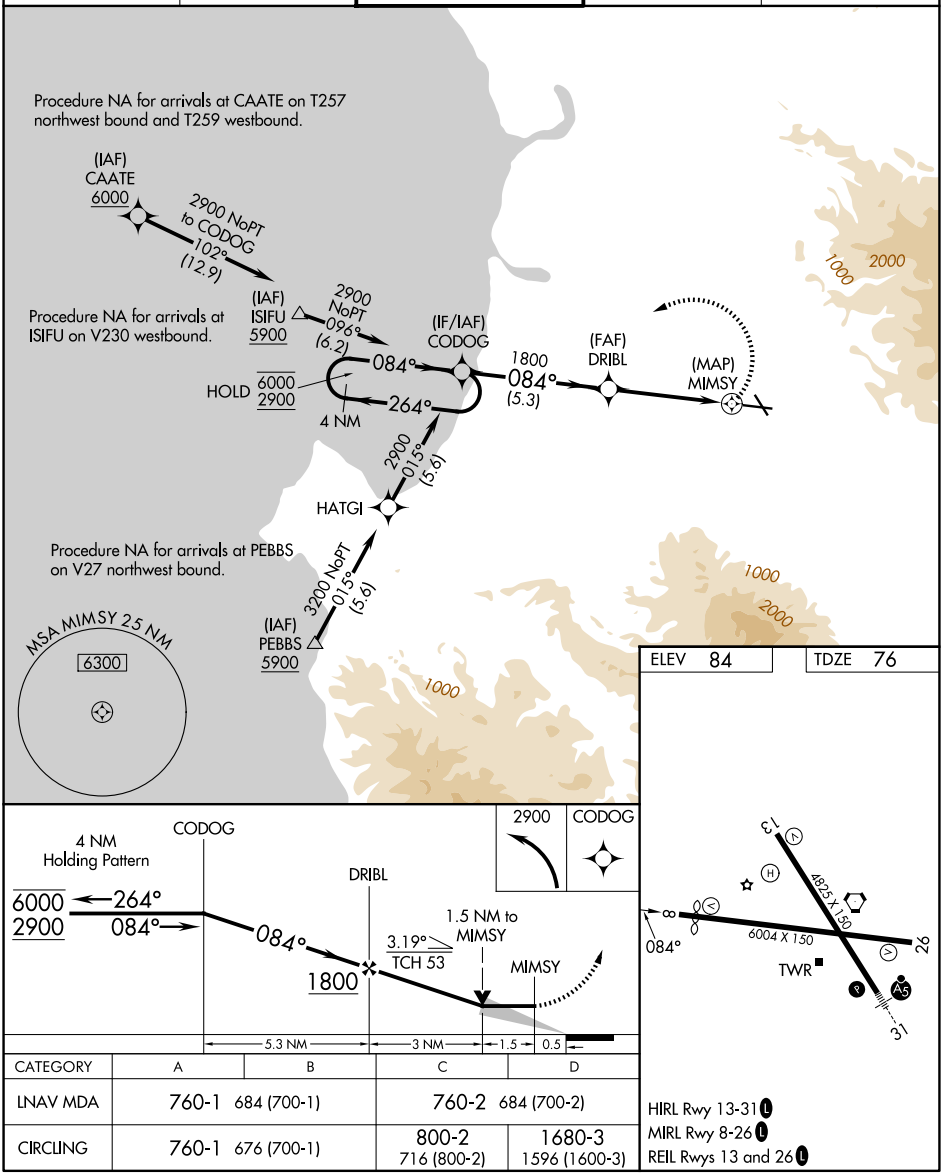
SALINAS MUNI (SNS)

RNP APCH-GPS.

Circling Cat C/D NA northeast of Rwy 13 and north of Rwy 26.

MISSED APPROACH: (Do not exceed 185K until CODOG) Climbing left turn to 2900 direct CODOG and hold, continue climb-in-hold to 2900.

ATIS	NORCAL APP CON	SALINAS TOWER ★	GND CON	UNICOM
124.85	133.0 251.15	119.525 (CTAF) L 239.3	121.7	123.0



CATEGORY	A	B	C	D
LNAV MDA	760-1 684 (700-1)		760-2 684 (700-2)	
CIRCLING	760-1 676 (700-1)		800-2 716 (800-2)	1680-3 1596 (1600-3)

HIRL Rwy 13-31 L
MIRL Rwy 8-26 L
REIL Rwys 13 and 26 L

SALINAS, CALIFORNIA
Orig-A 25JAN24

36°40'N-121°36'W

SALINAS MUNI (SNS)
RNAV (GPS) RWY 8

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 13

SALINAS MUNI (SNS)

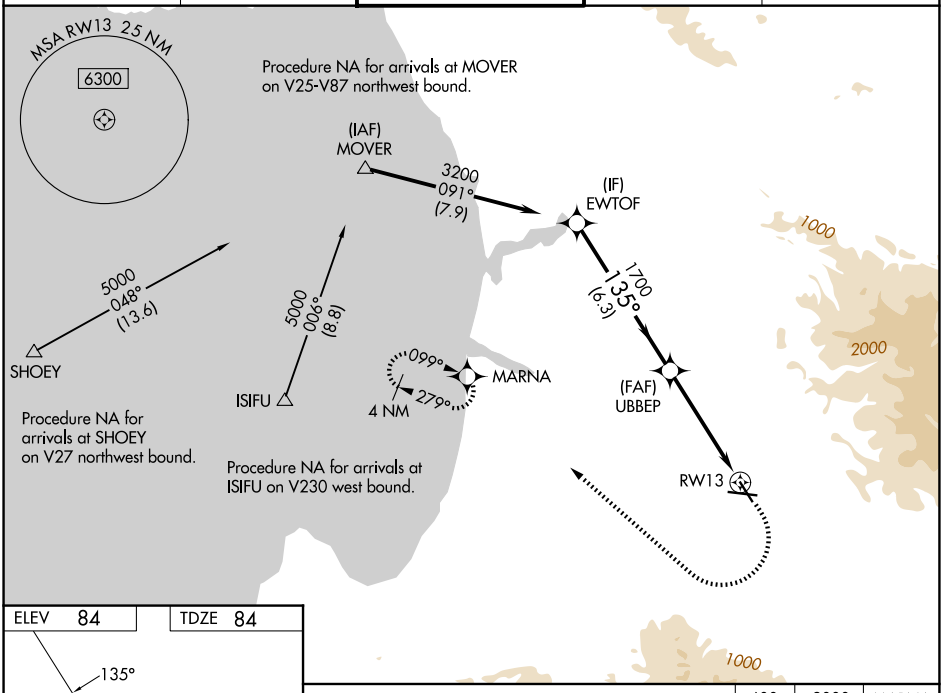
WAAS	APP CRS	Rwy Ldg	4825
CH 57944	135°	TDZE	84
W13A		Apt Elev	84

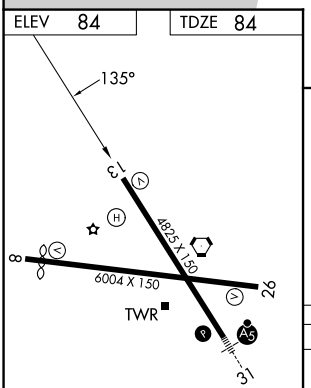
RNP APCH - GPS.

T A Rwy 13 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C or above 54°C. Circling NA for Cat C northeast of Rwy 13 and north of Rwy 26. Circling NA for Cat D northeast of Rwy 13-31.

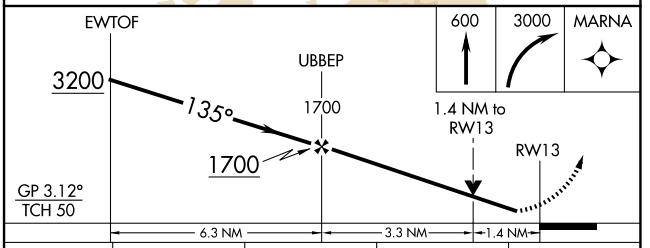
MISSED APPROACH: (Do not exceed 185K until MARNA). Climb to 600, then climbing right turn to 3000 direct MARNA and hold, continue climb-in-hold to 3000.

ATIS	NORCAL APP CON	SALINAS TOWER ★	GND CON	UNICOM
124.85	133.0 251.15	119.525 (CTAF) L 239.3	121.7	123.0





HIRL Rwy 13-31 L
MIRL Rwy 8-26 L
REIL Rwys 13 and 26 L



CATEGORY	A	B	C	D
LPV DA	334-¾ 250 (300-¾)			
LNAV/VNAV DA	447-1 363 (400-1)		463-1 379 (400-1)	488-1⅛ 404 (500-1⅛)
LNAV MDA	580-1 496 (500-1)		580-1⅜ 496 (500-1⅜)	
CIRCLING	580-1 496 (500-1)		800-2 716 (800-2)	1620-3 1536 (1600-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SALINAS, CALIFORNIA

AL-363 (FAA)

25331

RNAV (GPS) Y RWY 31

SALINAS MUNI (SNS)

APP CRS	Rwy Ldg	4825
315°	TDZE	82
	Apt Elev	84

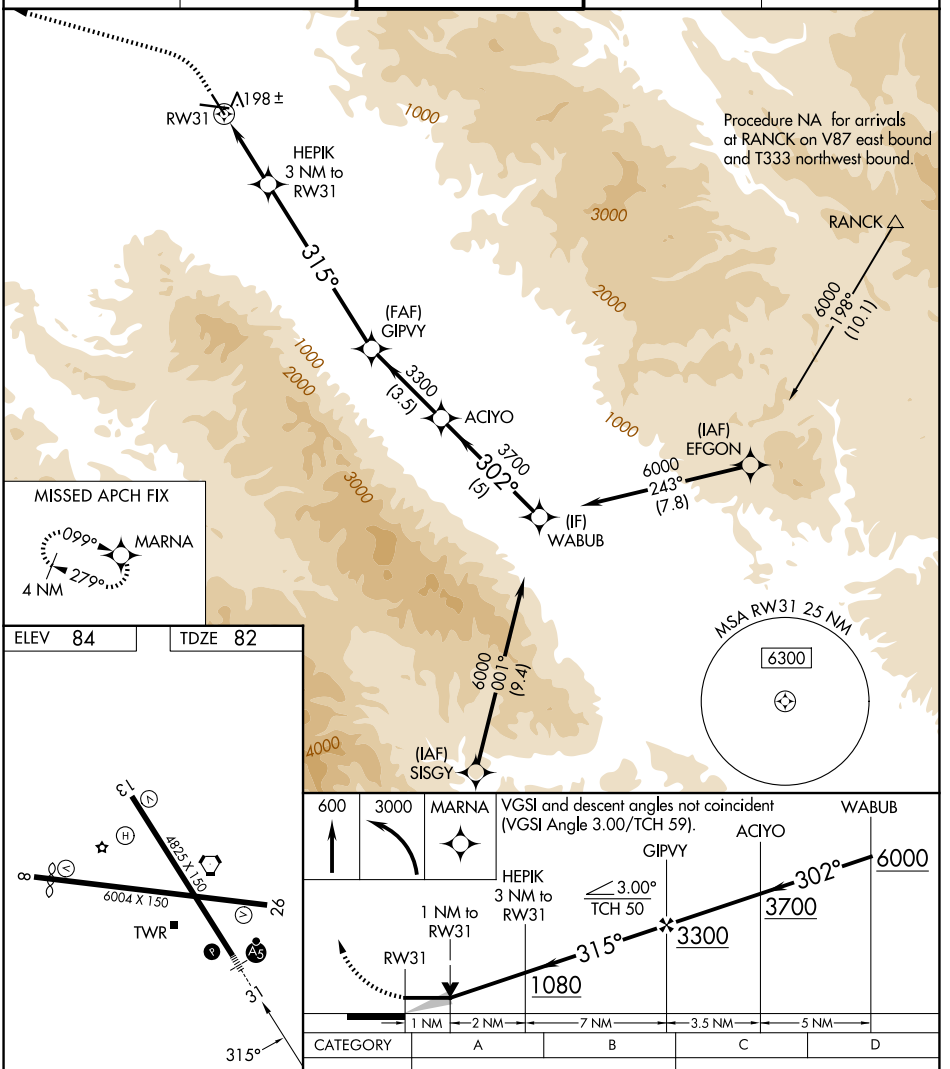
RNP APCH - GPS.

Circling NA for Cat C northeast of Rwy 13 and north of Rwy 26. Circling NA for Cat D northeast of Rwy 13-31.

MALSR

MISSED APPROACH: Climb to 600, then climbing left turn to 3000 direct MARNA and hold, continue climb-in-hold to 3000.

ATIS	NORCAL APP CON	SALINAS TOWER ★	GND CON	UNICOM
124.85	133.0 251.15	119.525 (CTAF) L 239.3	121.7	123.0



HIRL Rwy 13-31 L
MIRL Rwy 8-26 L
REIL Rwys 13 and 26 L

CATEGORY	A	B	C	D
LNAV MDA	460/24 378 (400-½)		460/35 378 (400-⅝)	
CIRCLING	540-1 456 (500-1)		800-2 716 (800-2)	1620-3 1536 (1600-3)

SALINAS, CALIFORNIA
Amdt 2 16MAY24

36°40'N-121°36'W

SALINAS MUNI (SNS)

RNAV (GPS) Y RWY 31

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) Z RWY 31

SALINAS MUNI (SNS)

WAAS	APP CRS	Rwy Ldg	4825
CH 69513	315°	TDZE	82
W31A		Apt Elev	84

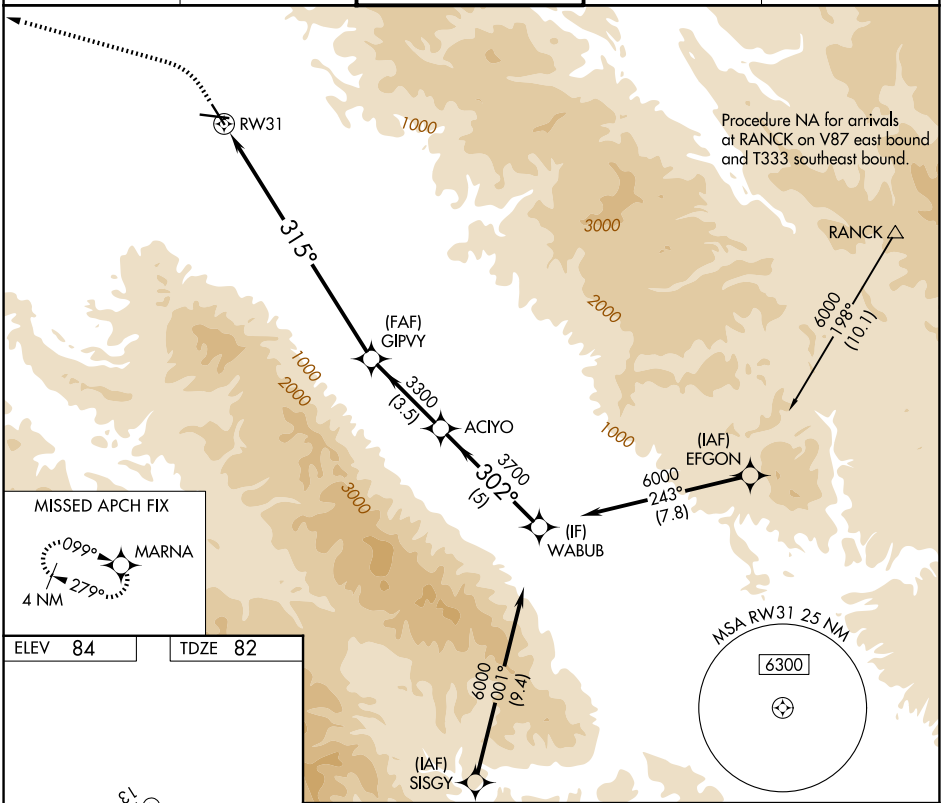
RNP APCH - GPS.

Baro-VNAV NA.

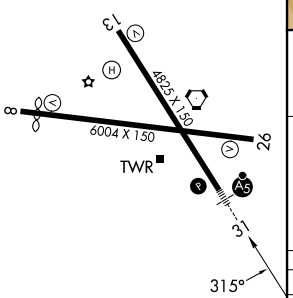
MALSR

MISSED APPROACH: Climb to 600, then climbing left turn to 3000 direct MARNA and hold, continue climb-in-hold to 3000.

ATIS	NORCAL APP CON	SALINAS TOWER ★	GND CON	UNICOM
124.85	133.0 251.15	119.525 (CTAF) L 239.3	121.7	123.0



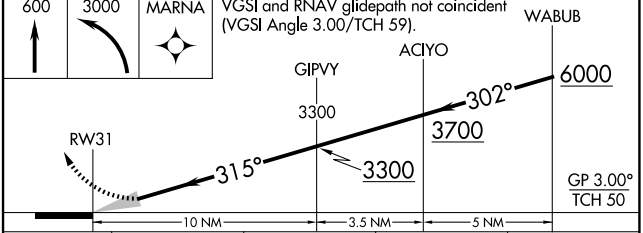
ELEV 84 | TDZE 82



HIRL Rwy 13-31 L
MIRL Rwy 8-26 L
REIL Rwys 13 and 26 L

600 | 3000 | MARNA

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 59).



CATEGORY		A	B	C	D
LPV	DA	302/24 220 (300-½)			
LNAV/VNAV	DA	465/35 383 (400-⅝)			

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SALINAS, CALIFORNIA

AL-363 (FAA)

25331

LOC RWY 31

SALINAS MUNI (SNS)

LOC I-SNS	APP CRS	Rwy Ldg	4825
108.5	315°	TDZE	82
		Apt Elev	84

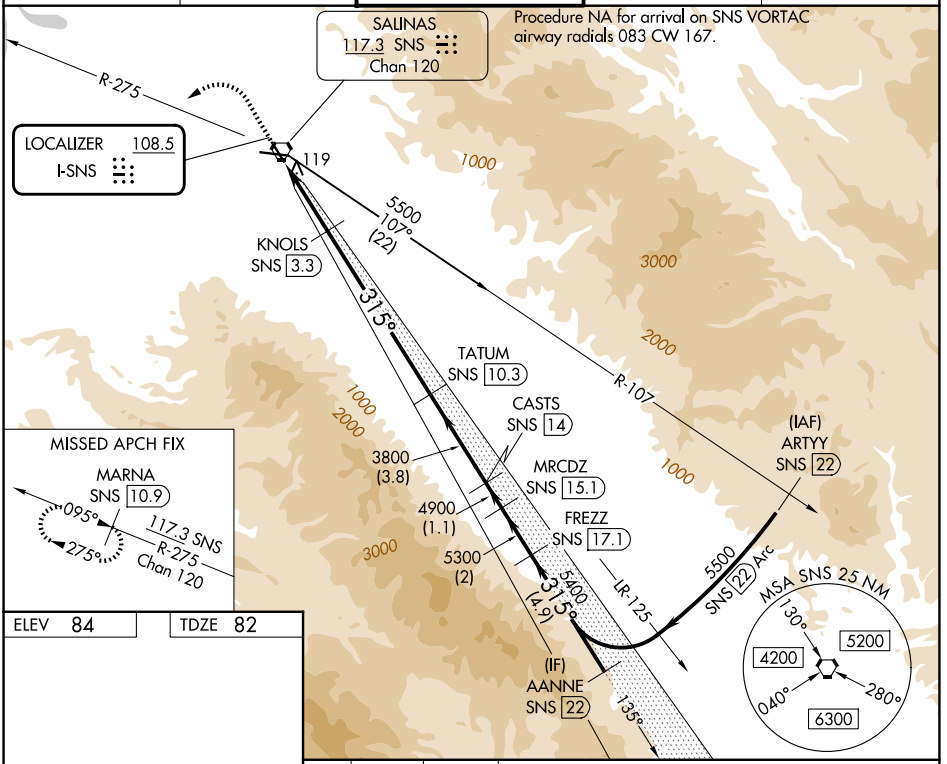
DME required.

DME from SNS VORTAC. DME use requires simultaneous reception of I-SNS and SNS DME. Circling NA for Cats C and D northeast of Rwy 13 and north of Rwy 26. For inop ALS, increase S-LOC-31 visibility Cats C and D to RVR 5000.

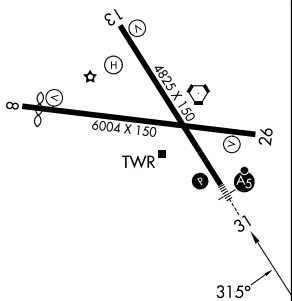
MALSR

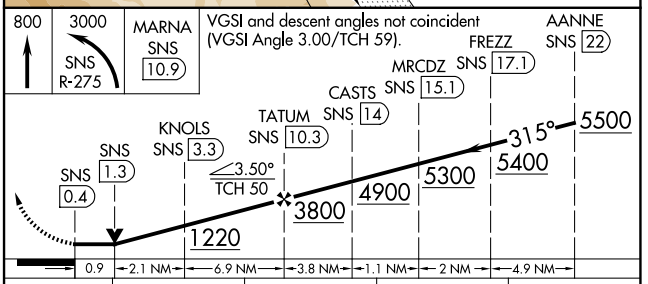
MISSED APPROACH: Climb to 800 then climbing left turn to 3000 on SNS VORTAC R-275 to MARNA/SNS 10.9 DME and hold, continue climb-in-hold to 3000.

ATIS	NORCAL APP CON	SALINAS TOWER ★	GND CON	UNICOM
124.85	133.0 251.15	119.525 (CTAF) L 239.3	121.7	123.0



ELEV 84 | TDZE 82





CATEGORY	A	B	C	D
S-LOC 31	420/24 338 (400-½)		420/40	338 (400-¾)
CIRCLING	540-1 456 (500-1)		800-2 716 (800-2)	1740-3 1656 (1700-3)

HIRL Rwy 13-31 L

MIRL Rwy 8-26 L

REIL Rwys 13 and 26 L

SALINAS, CALIFORNIA

Amdt 6 16MAY24

36°40′N-121°36′W

SALINAS MUNI (SNS)

LOC RWY 31

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

VORTAC SNS 117.3 Chan 120	APP CRS 122°	Rwy Ldg 4825 TDZE 84 Apt Elev 84

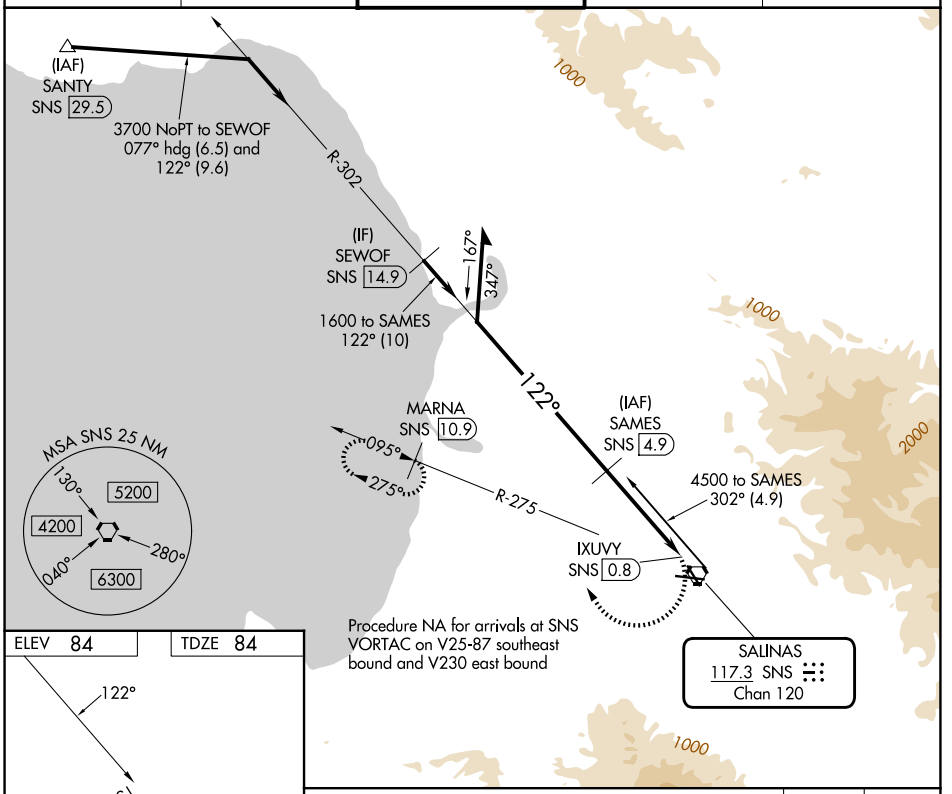
VOR RWY 13
SALINAS MUNI (SNS)

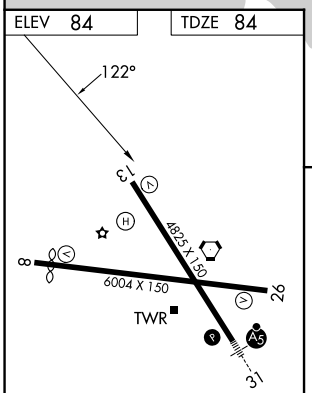
DME required.

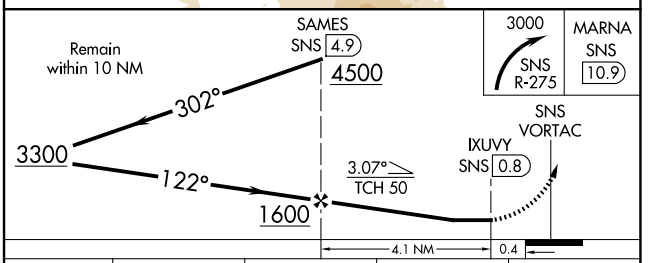
Rwy 13 helicopter visibility reduction below 1 SM NA. Circling NA for Cat C northeast of Rwy 13 and north of Rwy 26 and NA for Cat D northeast of Rwy 13-31.

MISSED APPROACH: Climbing right turn to 3000 on SNS VORTAC R-275 to MARNA/SNS 10.9 DME and hold, continue climb-in-hold to 3000.

ATIS	NORCAL APP CON	SALINAS TOWER★	GND CON	UNICOM
124.85	133.0 251.15	119.525 (CTAF) L 239.3	121.7	123.0







CATEGORY	A	B	C	D
S-13	600-1 516 (600-1)		600-1⅜ 516 (600-1⅜)	760-1⅞ 676 (700-1⅞)
CIRCLING	600-1 516 (600-1)		800-2 716 (800-2)	960-2¾ 876 (900-2¾)

HIRL Rwy 13-31 L
MIRL Rwy 8-26 L
REIL Rwys 13 and 26 L

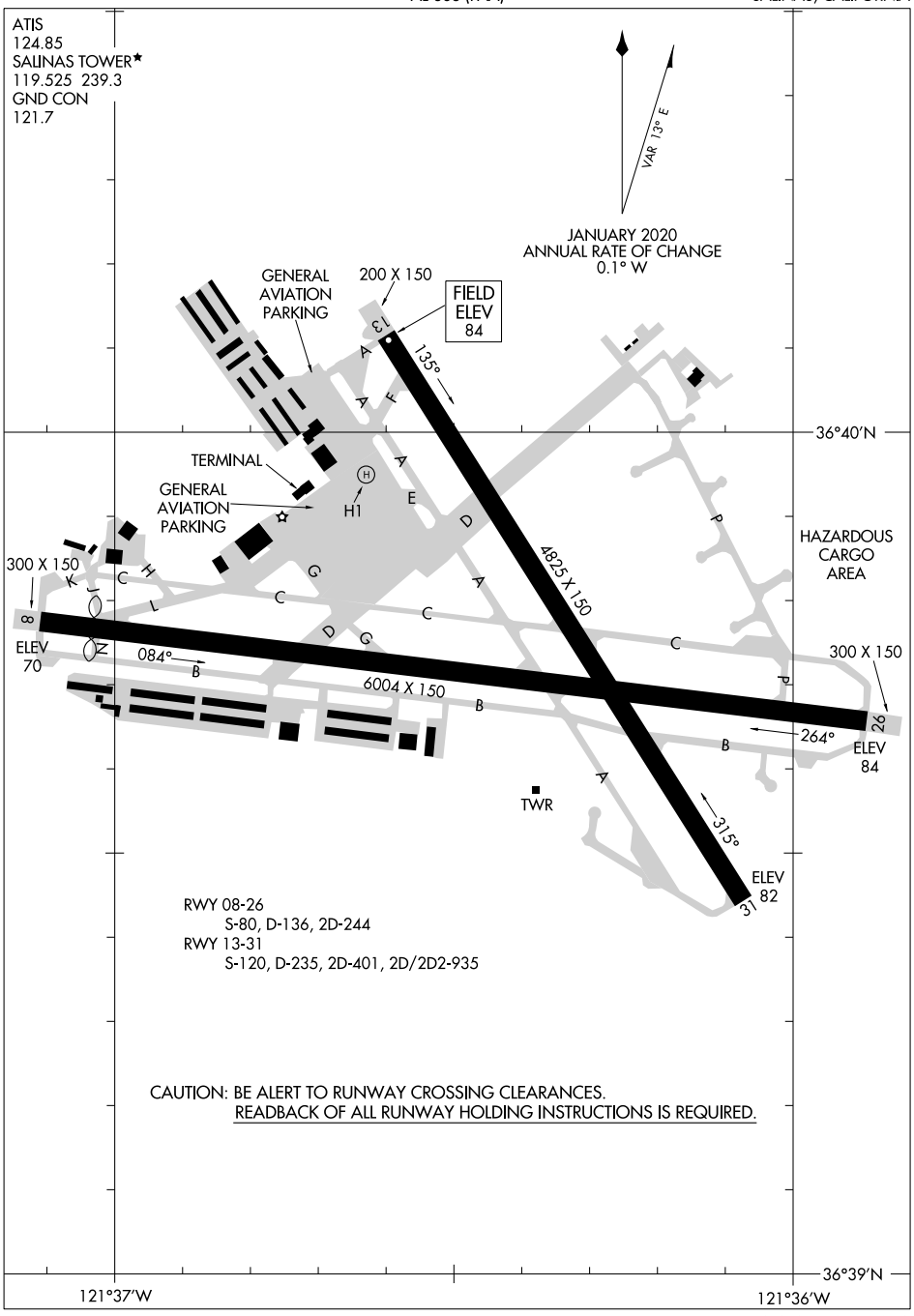
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26190

AIRPORT DIAGRAM

AL-363 (FAA)

SALINAS MUNI (SNS)
SALINAS, CALIFORNIA

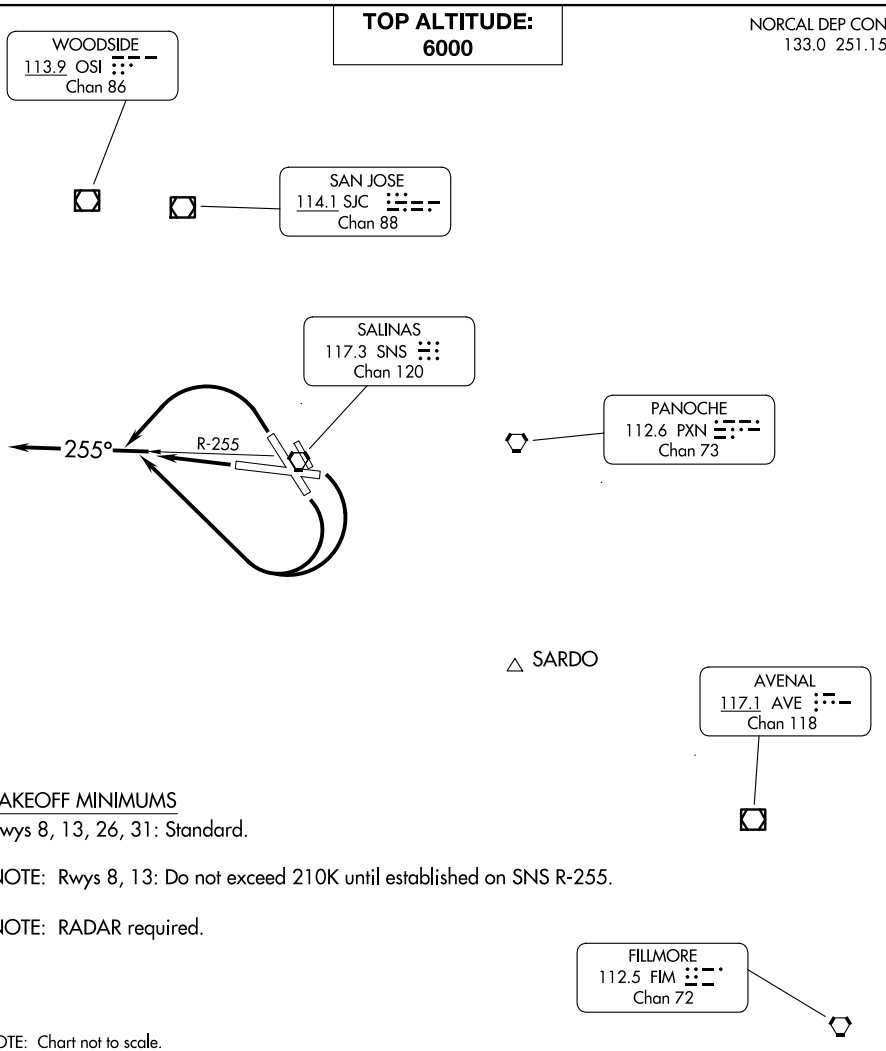


SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM
26190

SALINAS, CALIFORNIA
SALINAS MUNI (SNS)



TAKEOFF MINIMUMS
Rwys 8, 13, 26, 31: Standard.

NOTE: Rwys 8, 13: Do not exceed 210K until established on SNS R-255.

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8, 13: Climbing right turn to 6000 to intercept SNS R-255 thence . . . .

TAKEOFF RUNWAY 26: Climb to 6000 to intercept SNS R-255 thence . . . .

TAKEOFF RUNWAY 31: Climbing left turn to 6000 to intercept SNS R-255 thence . . . .

. . . . Expect RADAR vectors to assigned route. Expect clearance to filed altitude/flight level within five (5) minutes after departure.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN ANDREAS, CALIFORNIA | AL-6708 (FAA) | 26134

WAAS	APP CRS	Rwy Ldg	3602
CH 81842	311°	TDZE	1328
W31A		Apt Elev	1328

RNAV (GPS) RWY 31

CALAVERAS COUNTY/MAURY RASMUSSEN FLD (CPU)

RNP APCH.

Circling NA southwest of Rwy 31-13.

MISSED APPROACH: Climb to 4400 direct ZEGEX and hold, continue climb-in-hold to 4400.

AWOS-3P	NORCAL APP CON	UNICOM
118.525	125.1 363.2	123.0 (CTAF)

MISSED APCH FIX

5 NM 145° 325° ZEGEX

KATSO

5200 144° (23.5)

1341

RW31

1535±

ZESUM 3 NM to RW31

1414±

311°

(FAF) KACBY

3700 291° (5.5)

111° 291°

5 NM

(IF/IAF) WUBEB

LINDEN LIN

5200 087° (26.2)

MSA RW31 25 NM

8800

5200 NoPT 342° (12.6)

(IAF) HOFED

ELEV 1328 | TDZE 1328

0.6% UP

3602 X 60

311°

MIRL Rwy 13-31 (L)

4400 | ZEGEX

VGSI and descent angle not coincident (VGSI Angle 3.00/TCH 26).

WUBEB

5 NM Holding Pattern

ZESUM 3 NM to RW31

KACBY

0.8 NM to RW31

3.00° TCH 31

111° 291° 5200

291° 311° 3700

RW31

2320

0.8 NM | 2.2 NM | 4.3 NM | 5.5 NM

CATEGORY	A	B	C	D
LP MDA	1600-1 272 (300-1)			NA
LNAV MDA	1860-1 532 (600-1)		1860-1½ 532 (600-1½)	NA
CIRCLING	1860-1 532 (600-1)	2040-1 712 (800-1)	2360-3 1032 (1100-3)	NA

SAN ANDREAS, CALIFORNIA
Amdt 1A 20JUN19

CALAVERAS COUNTY/MAURY RASMUSSEN FLD (CPU)
38°09'N-120°39'W

RNAV (GPS) RWY 31

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	2621
297°	TDZE	6
	Apt Elev	6

RNAV (GPS) Y RWY 30

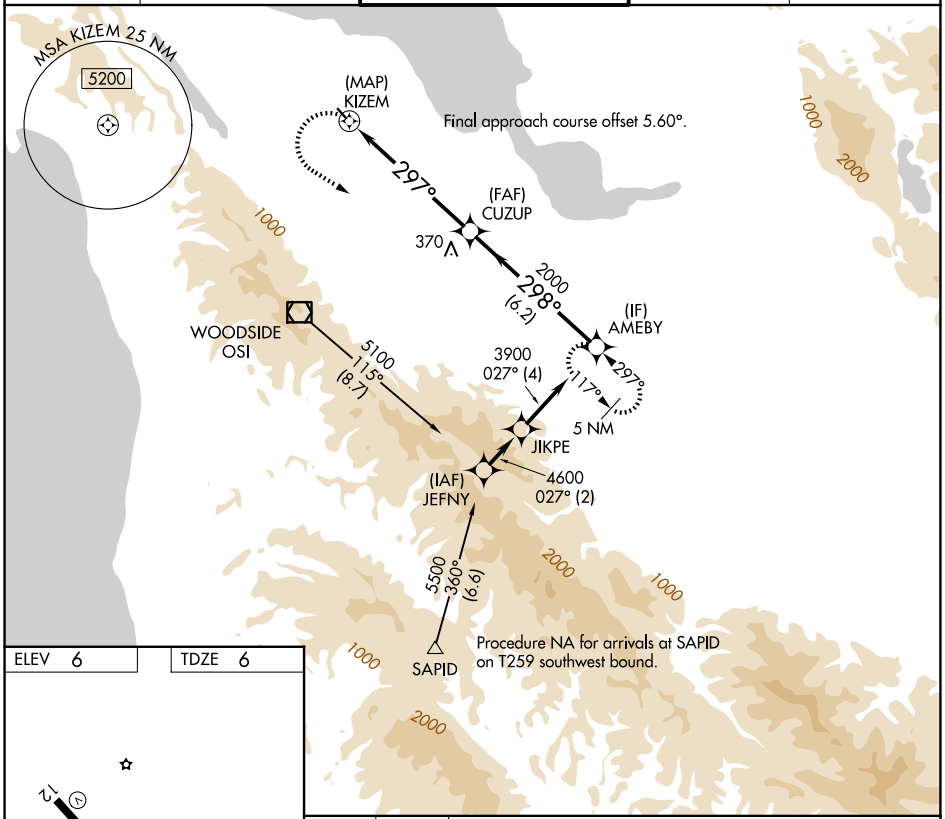
SAN CARLOS (SQL)

RNP APCH - GPS.

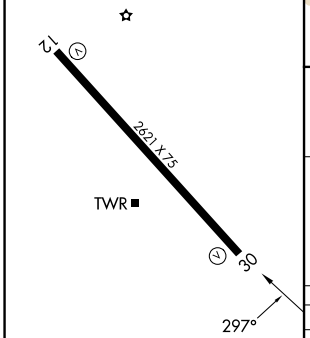
When Circling to Rwy 12 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Rwy 30 helicopter visibility reduction below 1 SM NA. Circling NA west of Rwy 12-30.

MISSED APPROACH: Climbing left turn to 5400 direct AMEBY and hold, continue climb-in-hold to 5400.

ATIS	NORCAL APP CON	SAN CARLOS TOWER ★	GND CON	UNICOM
125.9	133.95 317.6	119.0 (CTAF) L 326.2	121.6	122.95



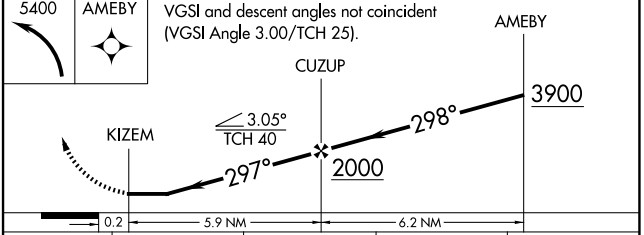
ELEV 6 TDZE 6



REIL Rwys 12 and 30 L
MIRL Rwy 12-30 L

5400 AMEBY

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 25).



CATEGORY	A	B	C	D
LNAV MDA	1260-1¼ 1254 (1300-1¼)	1260-1½ 1254 (1300-1½)	NA	
CIRCLING	1260-1¼ 1254 (1300-1¼)	1260-1½ 1254 (1300-1½)	NA	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN CARLOS, CALIFORNIA | AL-9219 (FAA) | 26078

RNAV (GPS) Z RWY 30

SAN CARLOS (SQL)

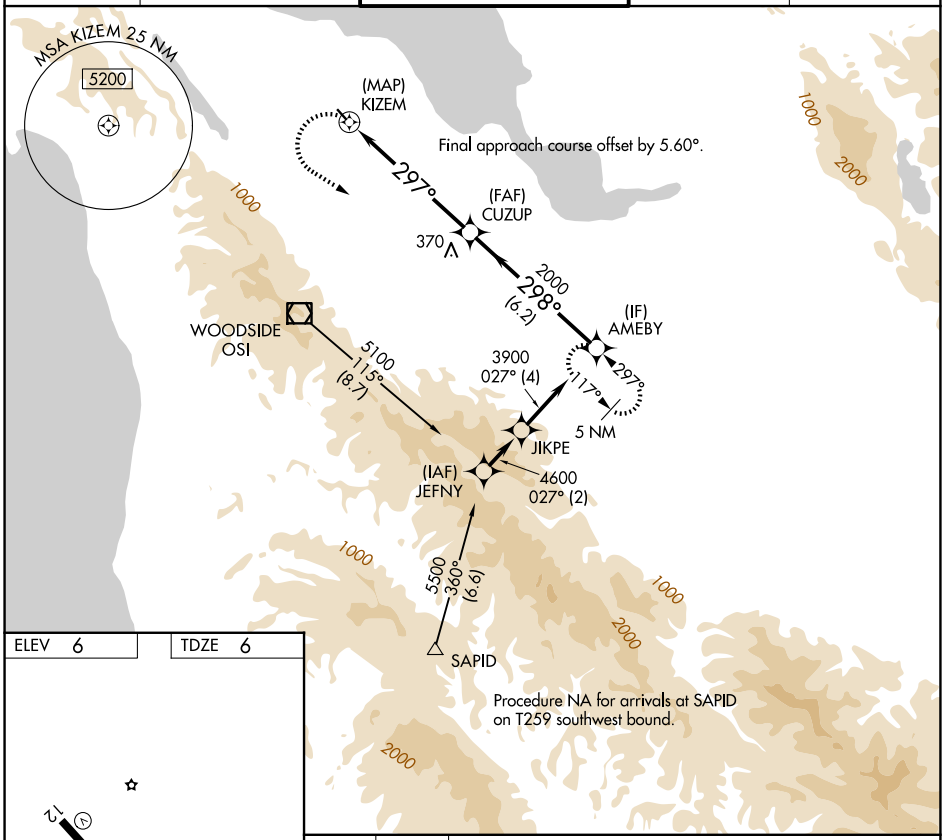
APP CRS	Rwy Ldg	2621
297°	TDZE	6
	Apt Elev	6

RNP APCH - GPS.

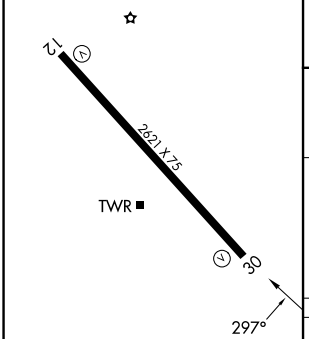
Rwy 30 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing left turn to 5400 direct AMEBY and hold, continue climb-in-hold to 5400. Missed approach requires minimum climb of 340 feet per NM to 1300; if unable to meet climb gradient, see RNAV (GPS) Y RWY 30.

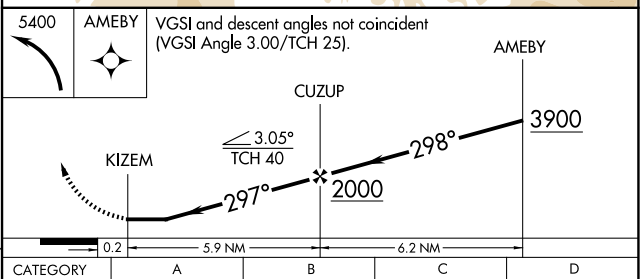
ATIS	NORCAL APP CON	SAN CARLOS TOWER ★	GND CON	UNICOM
125.9	133.95 317.6	119.0 (CTAF) L 326.2	121.6	122.95



ELEV 6 | TDZE 6



REIL Rwys 12 and 30 L
MIRL Rwy 12-30 L



CATEGORY	A	B	C	D
LNAV MDA	900-1¼ 894 (900-1¼)		NA	

SAN CARLOS, CALIFORNIA
Amdt 1C 11JUL24

37°31'N-122°15'W

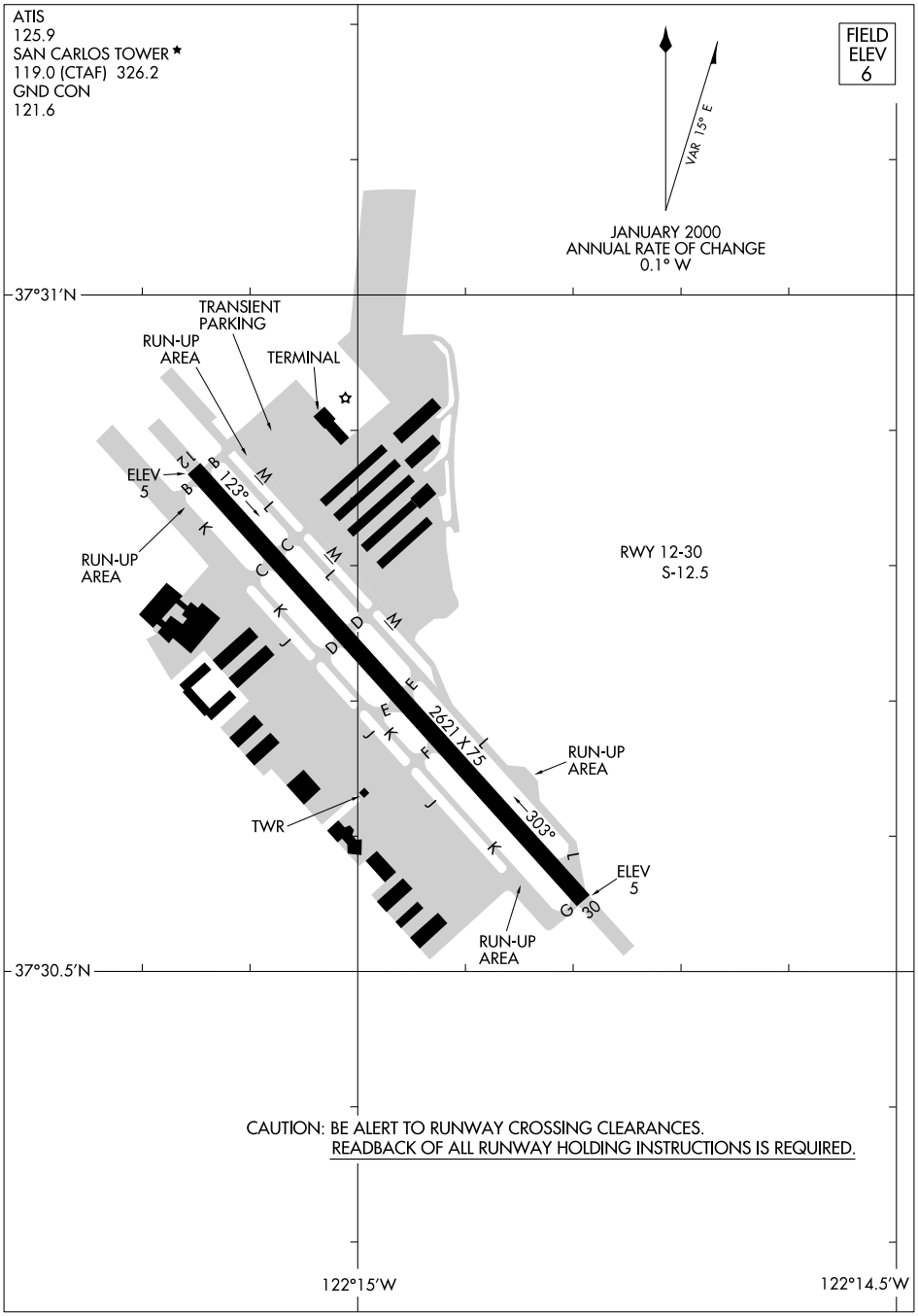
SAN CARLOS (SQL)

RNAV (GPS) Z RWY 30

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

AL-9219 (FAA)



SW-2, 09 JUL 2026 to 03 SEP 2026

SAN FRANCISCO, CALIFORNIA AL-375 (FAA) 26134

ILS or LOC RWY 19L

SAN FRANCISCO INTL (SFO)

LOC/DME I-SIA	APP CRS		19L	19R
108.9	194°	Rwy Ldg	8650	7650
Chan 26		TDZE	11	11
		Apt Elev	13	13

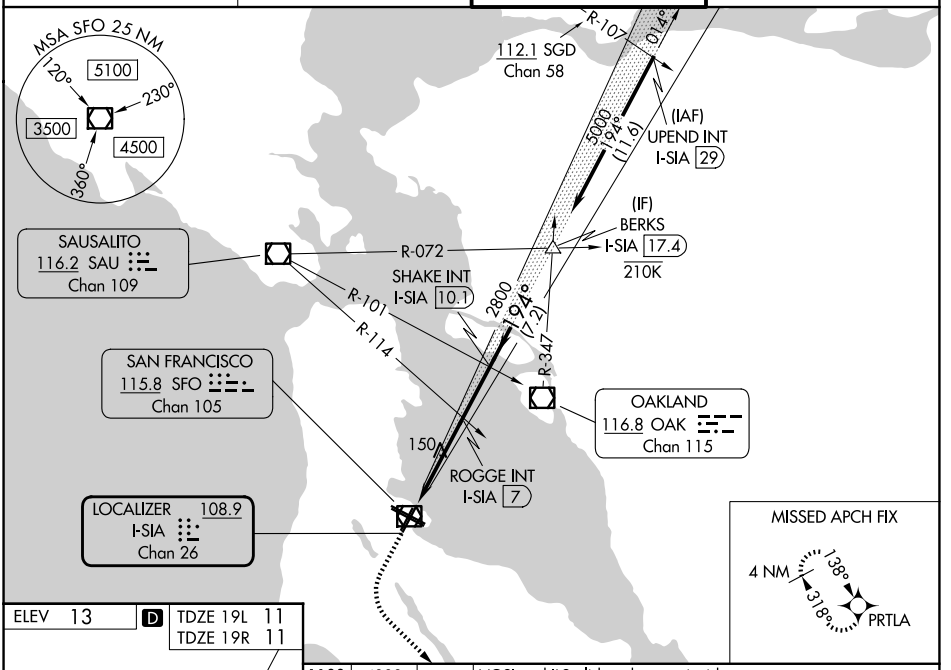
RNP APCH - GPS.

Inop table does not apply to ROGGE fix minimums S-LOC Rwy 19L or Sidestep Rwy 19R. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on the glideslope. For inop ALS, increase S-ILS Rwy 19L* all Cats visibility to RVR 4500, S-ILS Rwy 19L all Cats visibility to 2½ SM. Sidestep NA until passing ROGGE INT.

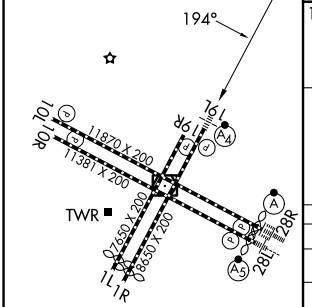
MALSF Rwy 19L

MISSED APPROACH: Climb to 1100 then climbing left turn to 4000 direct to PRTLA and hold.
*Missed approach requires minimum climb of 357 feet per NM to 2000.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8

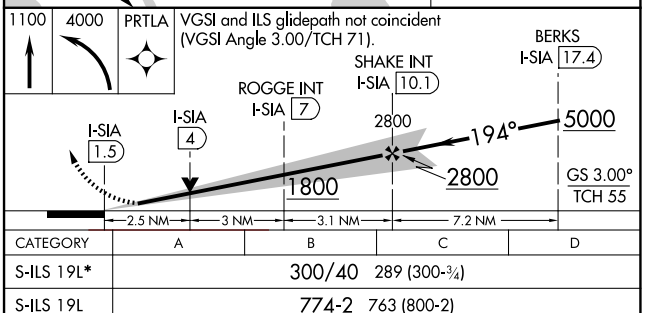


ELEV 13 D TDZE 19L 11 TDZE 19R 11



HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L

FAF to MAP 8.6 NM					
Knots	60	90	120	150	180
Min:Sec	8:36	5:44	4:18	3:26	2:52



CATEGORY	A	B	C	D
S-ILS 19L*	300/40 289 (300-¾)			
S-ILS 19L	774-2 763 (800-2)			
S-LOC 19L	1800-1¼ 1789 (1800-1¼)	1800-1½ 1789 (1800-1½)	1800-3 1789 (1800-3)	
ROGGE FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-LOC 19L	880/40 869 (900-¾)	880/55 869 (900-1)	880-2½ 869 (900-2½)	
SIDESTEP 19R	880-2 869 (900-2)		880-3 869 (900-3)	

SAN FRANCISCO, CALIFORNIA
Amdt 23A 14MAY26

37°37'N-122°23'W

SAN FRANCISCO INTL (SFO)

ILS or LOC RWY 19L

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-SFO	APP CRS	Rwy Ldg	10275
109.55	284°	TDZE	13
Chan 32(Y)		Apt Elev	13

ILS or LOC RWY 28L

SAN FRANCISCO INTL (SFO)

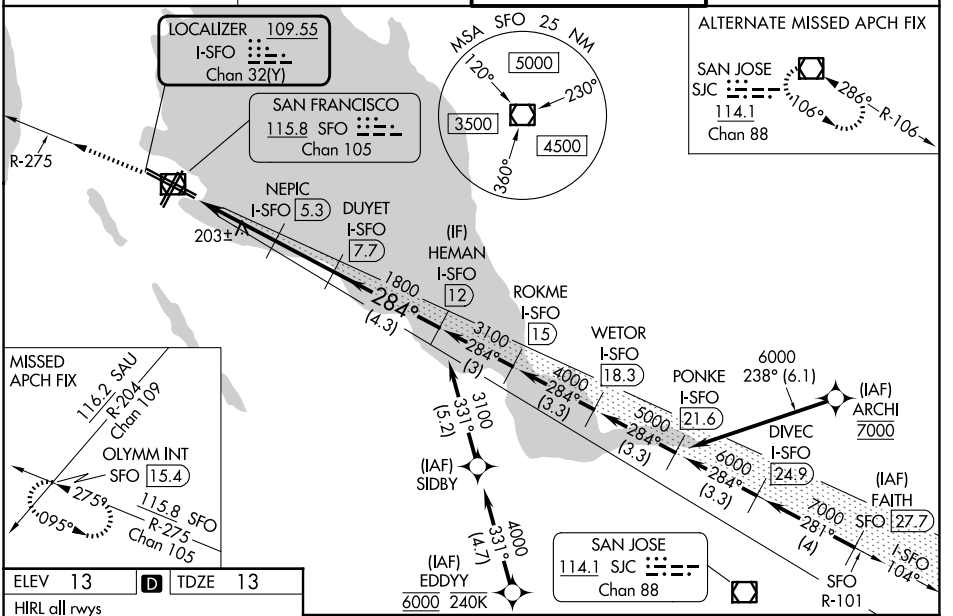
DME required. RNP APCH-GPS or RADAR required for procedure entry.

T A Circling NA to Rwys 10L, 10R, 19L, and 19R. Circling to Rwy 1L and 1R NA at night. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope. LOC procedure NA during simultaneous operations.
*RVR 1800 authorized with use of FD or AP or HUD to DA.
†For inop ALS, increase S-ILS 28L all Cats visibility to 2½ SM.
**For inop ALS increase S-LOC 28L Cat C/D visibility to 2½ SM.

MALSR

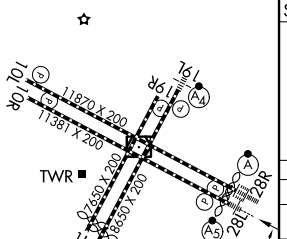
MISSED APPROACH: Climb to 4000 on SFO VOR/DME R-275 to OLYMM INT/SFO 15.4 DME and hold, continue climb-in-hold to 4000.
#Missed approach requires minimum climb of 330 feet per NM to 1600.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



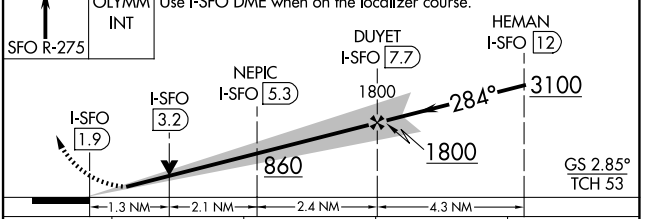
ELEV 13	D	TDZE 13

HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L



4000 SFO R-275 | OLYMM INT

VGSI and ILS glidepath not coincident (VGSI Angle 2.85/TCH 67).
Use I-SFO DME when on the localizer course.



CATEGORY	A	B	C	D
S-ILS 28L*#	213/24 200 (200-½)			
S-ILS 28L†	789-1¾ 776 (800-1¾)			
S-LOC 28L#	460/24 447 (500-½)		460/45 447 (500-⅞)	
S-LOC 28L**	860/24 847 (900-½)	860/40 847 (900-¾)	860-1⅞ 847 (900-1⅞)	
CIRCLING	860-1¼ 847 (900-1¼)	960-1¼ 947 (1000-1¼)	1560-3 1547 (1600-3)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN FRANCISCO, CALIFORNIA AL-375 (FAA) 26134

LOC/DME I-GWQ	APP CRS		28R	28L
111.7	284°	Rwy Ldg	11236	10275
Chan 54		TDZE	13	13
		Apt Elev	13	13

ILS or LOC RWY 28R

SAN FRANCISCO INTL (SFO)

RNAV 1-GPS or RADAR required for procedure entry.

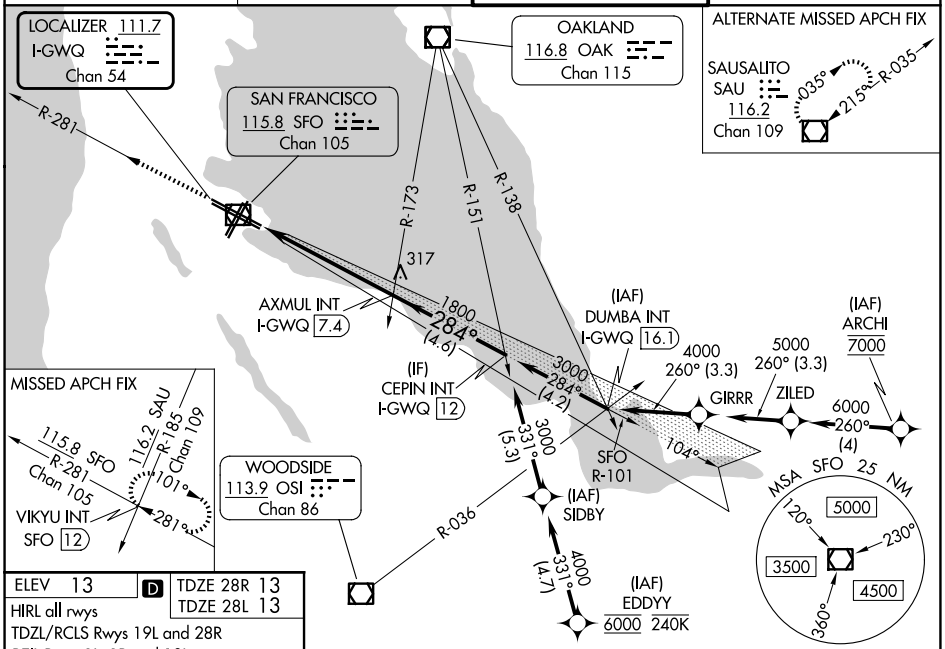
Circling NA to Rwys 10L, 10R, 19L, and 19R. Circling Rwy 1L, 1R NA at night. LOC procedure NA during simultaneous operations. For inop ALS increase S-LOC 28R* Cat C/D visibility to 1⅜ SM. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope.

ALSF-2 Rwy 28R

MALSR Rwy 28L

MISSED APPROACH: Climb to 3000 on SFO VOR/DME R-281 to VIKYU INT/SFO 12 DME and hold.
*Missed approach requires minimum climb of 350 feet per NM to 1900; if unable to meet climb gradient, see ILS or LOC RWY 28L.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8

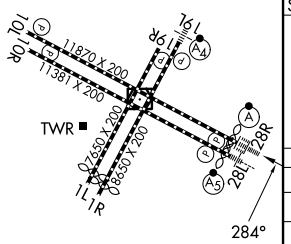


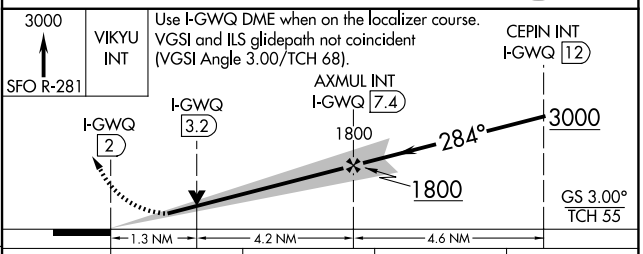
ELEV 13 D TDZE 28R 13 TDZE 28L 13

HIRL all rwys

TDZL/RCLS Rwys 19L and 28R

REIL Rwys 1L, 1R and 10L





FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

CATEGORY	A	B	C	D
S-ILS 28R*	213/18 200 (200-½)			
S-LOC 28R*	480/24 467 (500-½)		480/50 467 (500-1)	
SIDESTEP* 28L	480/55 467 (500-1)			480-1½ 467 (500-1½)
CIRCLING	740-1 727 (800-1)	960-1¼ 947 (1000-1¼)	1560-3 1547 (1600-3)	NA

SAN FRANCISCO, CALIFORNIA
Amdt 15B 19MAY22

37°37'N-122°23'W

SAN FRANCISCO INTL (SFO)
ILS or LOC RWY 28R

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-GWQ	APP CRS	Rwy Ldg	11236
111.7	284°	TDZE	13
Chan 54		Apt Elev	13

ILS RWY 28R (SA CAT I)

SAN FRANCISCO INTL (SFO)

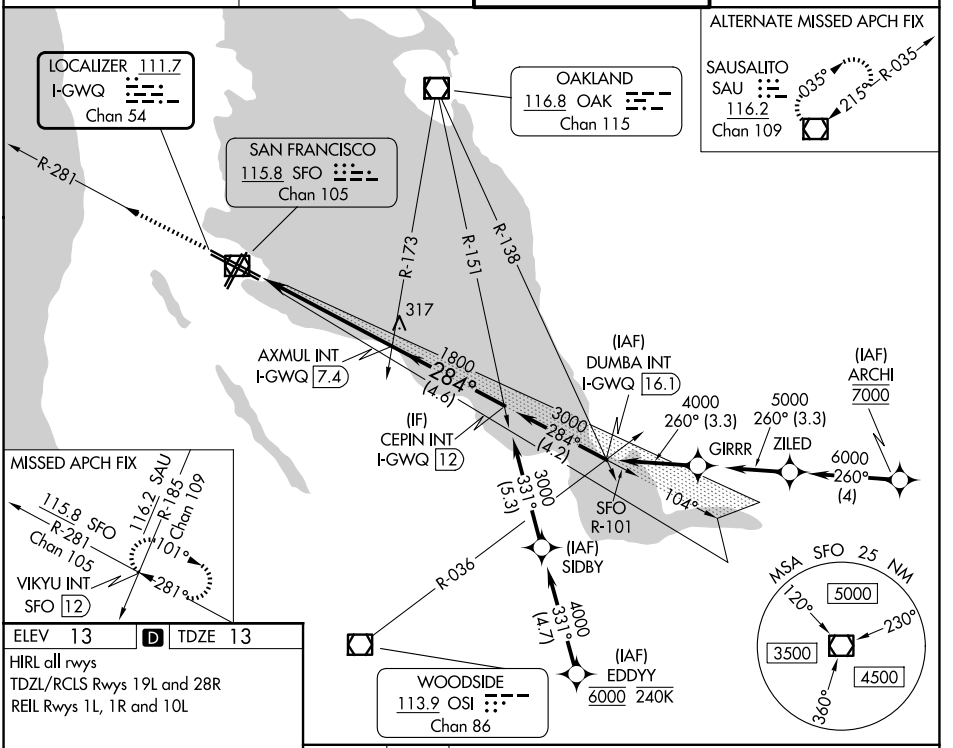
RNAV 1-GPS or RADAR required for procedure entry.

T Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

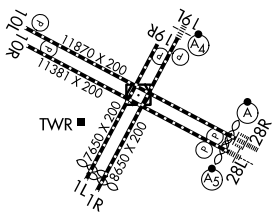
MISSED APPROACH: Climb to 3000 on SFO VOR/DME R-281 to VIKYU INT/SFO 12 DME and hold.
*Missed approach requires minimum climb of 350 feet per NM to 1900; if unable to meet climb gradient, see ILS or LOC RWY 28L.

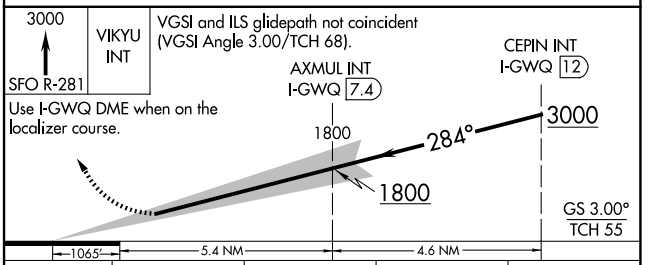
D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



ELEV 13 D TDZE 13

HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L





CATEGORY	A	B	C	D
S-ILS 28R*	RA 163/14 150 DA 163			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

ILS RWY 28R (CAT II & III)

SAN FRANCISCO INTL (SFO)

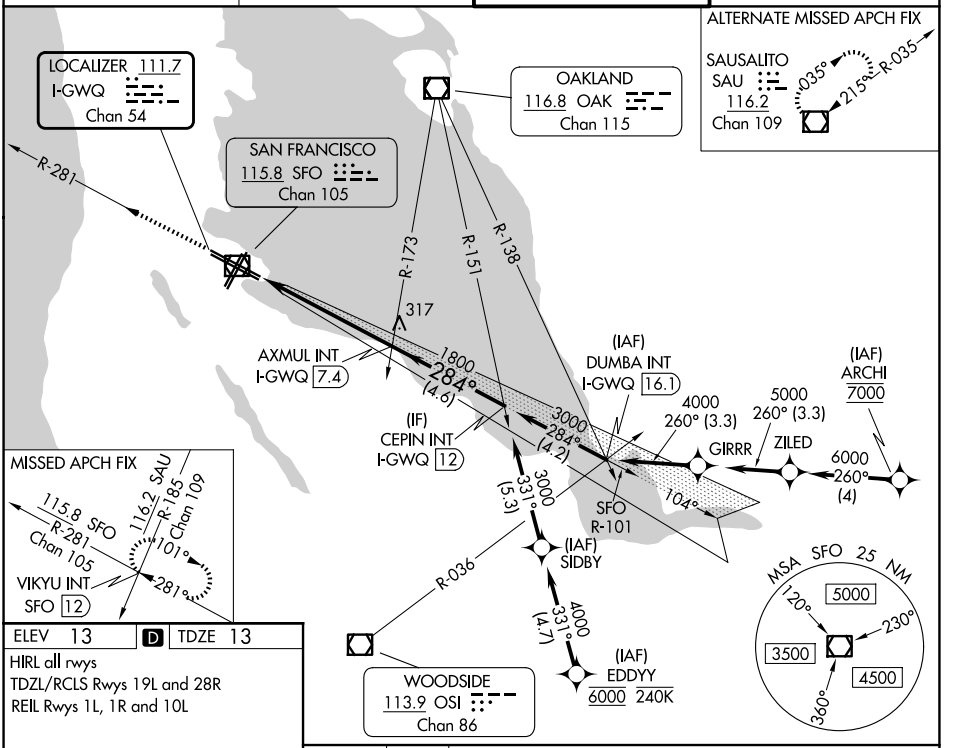
LOC/DME I-GWQ	APP CRS	Rwy Ldg	11236
111.7	284°	TDZE	13
Chan 54		Apt Elev	13

RNAV 1-GPS or RADAR required for procedure entry.

ALSF-2

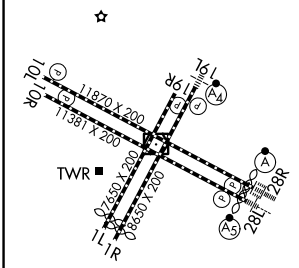
MISSED APPROACH: Climb to 3000 on SFO VOR/DME R-281 to VIKYU INT/SFO 12 DME and hold.
*Missed approach requires minimum climb of 350 feet per NM to 1900; if unable to meet climb gradient, see ILS or LOC RWY 28L.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



ELEV 13 | D | TDZE 13

HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L



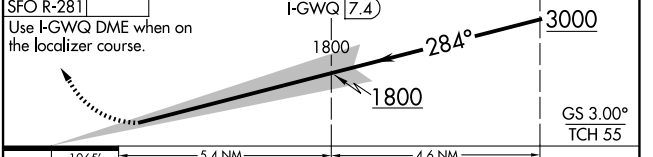
3000
VIKYU INT
SFO R-281

Use I-GWQ DME when on the localizer course.

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 68).

CEPIN INT
I-GWQ 12

AXMUL INT
I-GWQ 7.4



CATEGORY	A	B	C	D
S-ILS 28R*	CAT II RA 113/12 100 DA 113			
S-ILS 28R*	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-SFO	APP CRS	Rwy Ldg	10275
109.55	284°	TDZE	13
Chan 32(Y)		Apt Elev	13

ILS RWY 28L (SA CAT II)

SAN FRANCISCO INTL (SFO)

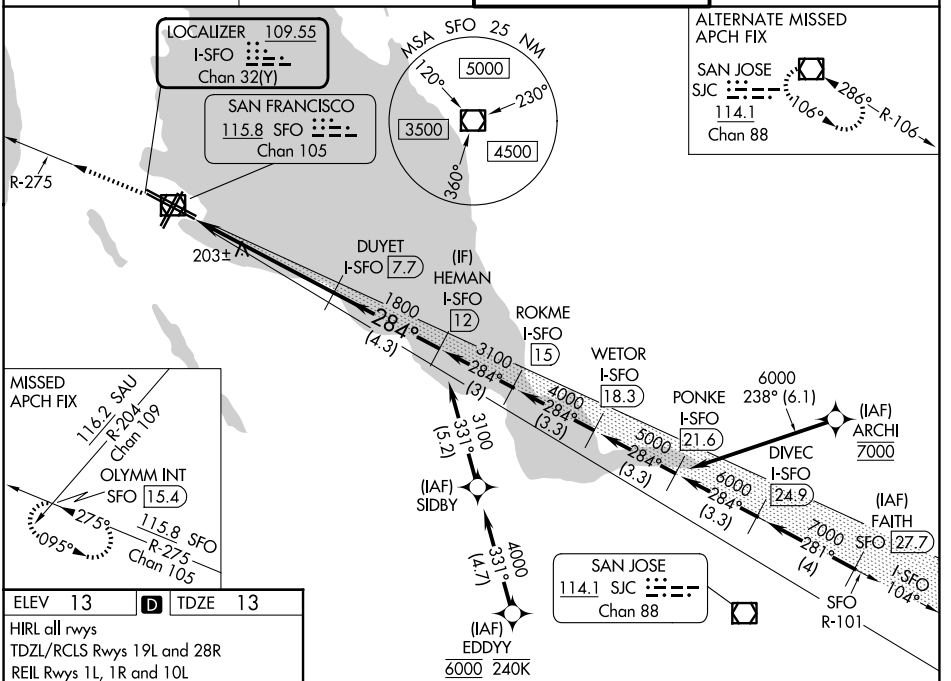
DME required. RNP APCH-GPS or RADAR required for procedure entry.

T
A Requires specific OPSPEC, MSPEC, or LOA approval.

MALSR (A5)

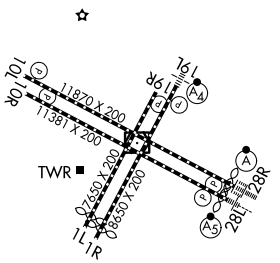
MISSED APPROACH: Climb to 4000 on SFO VOR/DME R-275 to OLYMM INT/SFO 15.4 DME and hold, continue climb-in-hold to 4000.
*Missed approach requires minimum climb of 330 feet per NM to 1600.

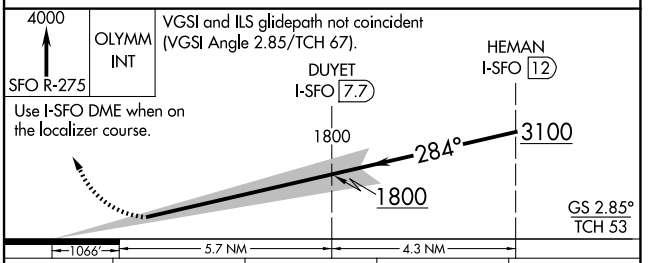
D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



ELEV 13	D	TDZE 13

HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L





CATEGORY	A	B	C	D
S-ILS 28L*	RA 113/12 100 DA 113			

SA CAT II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

GBAS	APP CRS	Rwy Ldg	8650
CH 21448	194°	TDZE	11
G19A		Apt Elev	13

GLS RWY 19L

SAN FRANCISCO INTL (SFO)

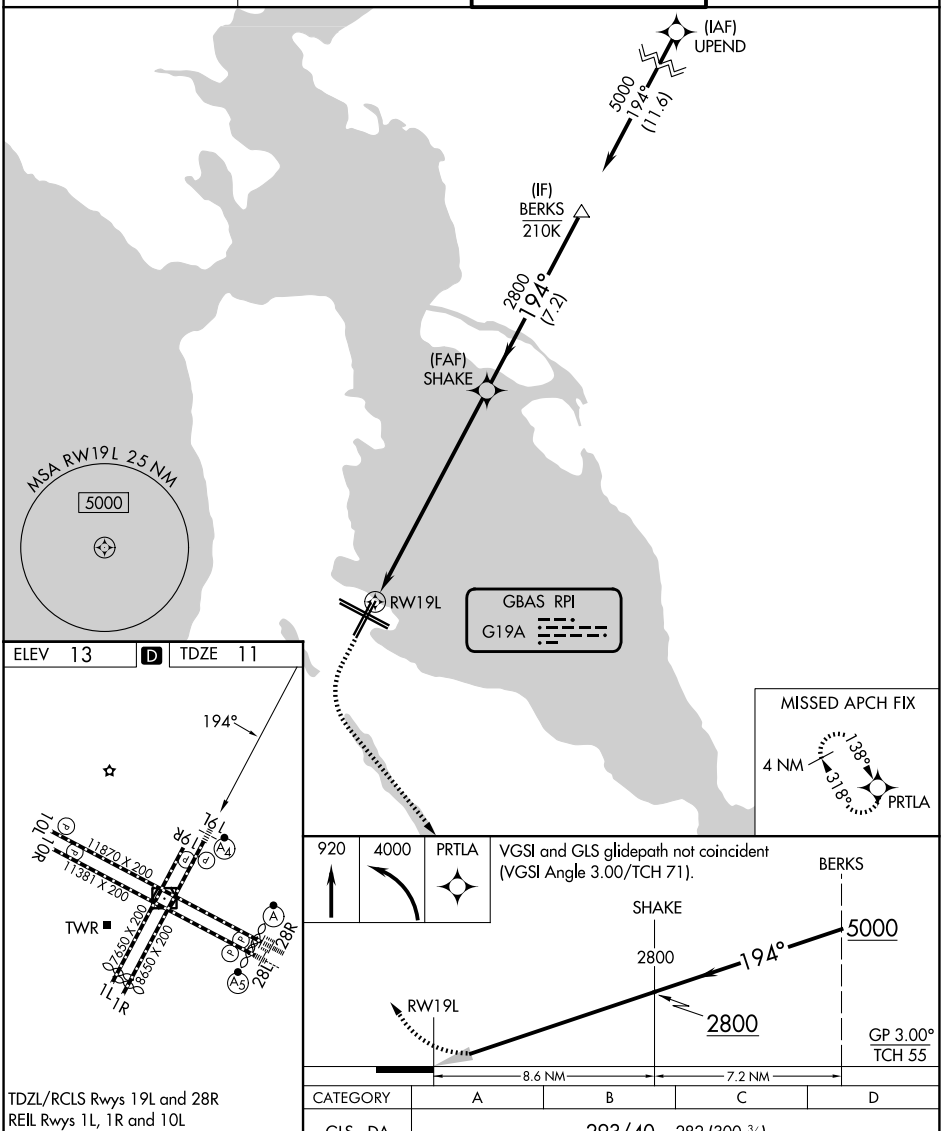
RNP APCH-GPS.

T NA Autopilot coupled approach NA below 293 feet. For inop ALS, increase GLS visibility to RVR 4500.

MALSF (A4)

MISSED APPROACH: Climb to 920 then climbing left turn to 4000 direct PRTLA and hold. Missed approach requires minimum climb of 357 feet per NM to 2000.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L
HIRL all rwys

CATEGORY	A	B	C	D
GLS DA	293/40	282 (300-¾)		

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

GBAS	APP CRS	Rwy Ldg	7650
CH 21859	194°	TDZE	11
G19B		Apt Elev	13

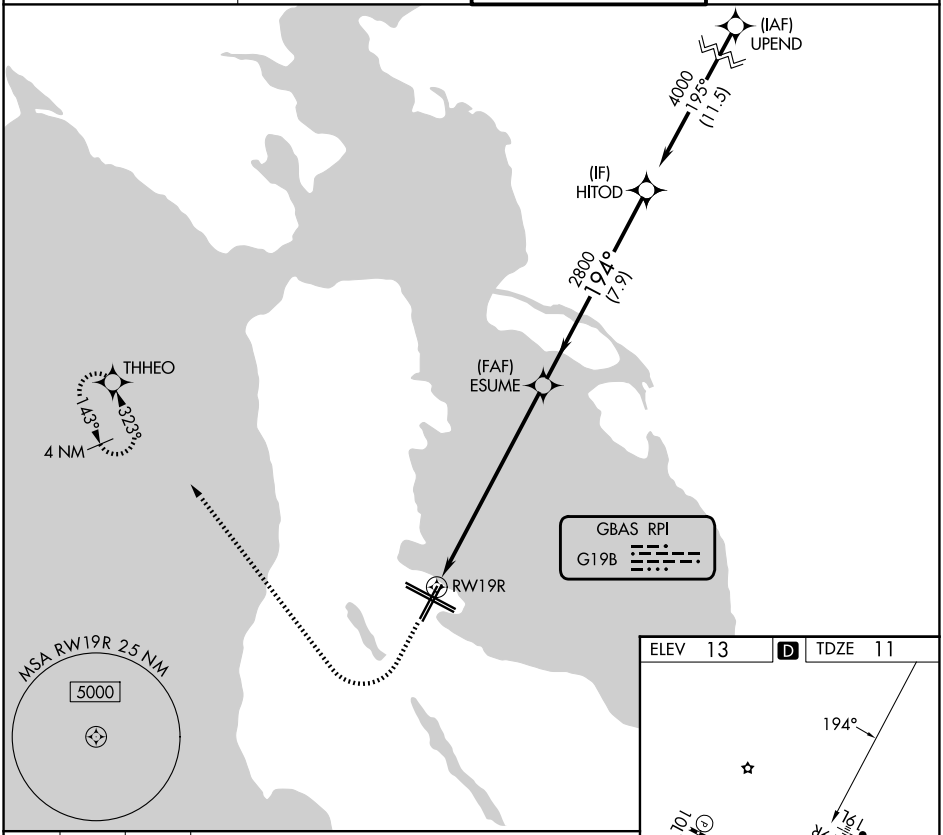
GLS RWY 19R
SAN FRANCISCO INTL (SFO)

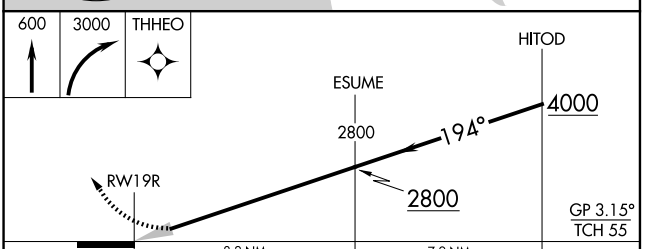
RNP APCH-GPS.

T A NA Autopilot coupled approach NA below 321 feet.

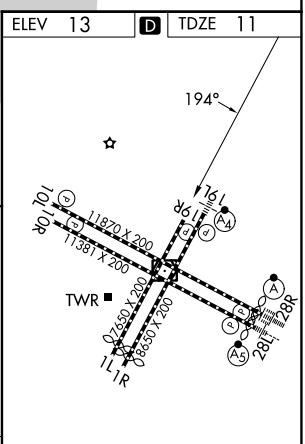
MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct THHEO and hold. Missed approach requires minimum climb of 395 feet per NM to 2100.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8





CATEGORY	A	B	C	D
GLS DA	321/45	310 (400-⅞)		



TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L
HIRL all rwys

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN FRANCISCO, CALIFORNIA AL-375 (FAA) 26134

GBAS CH 21037 G28B	APP CRS 284°	Rwy Ldg 10275 TDZE 13 Apt Elev 13

GLS RWY 28L

SAN FRANCISCO INTL (SFO)

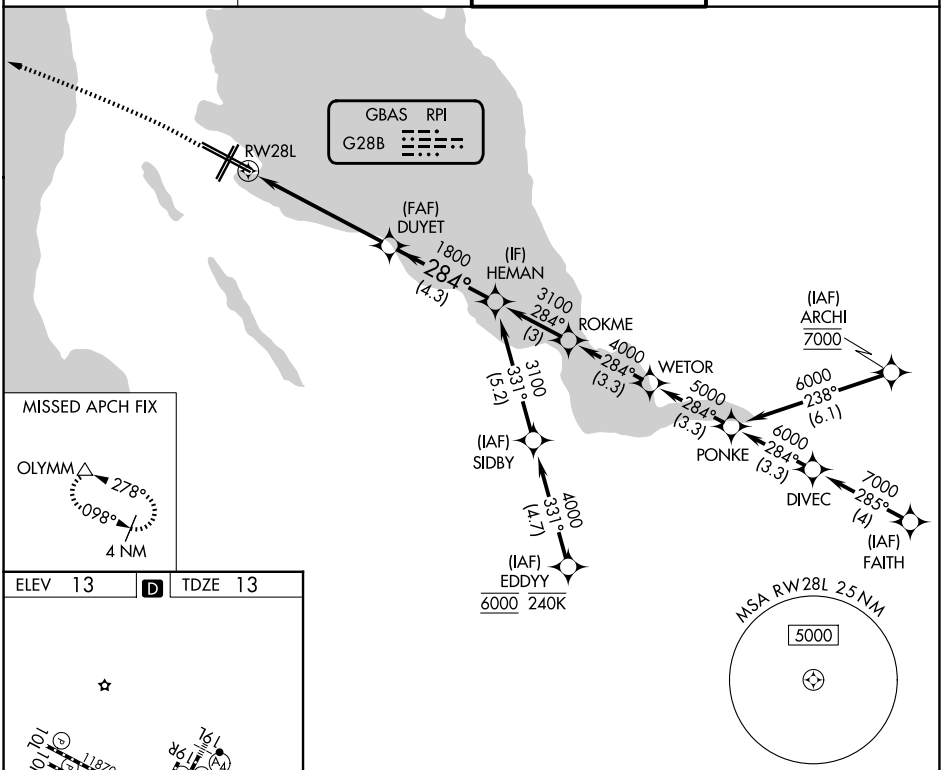
RNP APCH-GPS.

T A NA Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glidepath. Use of FD or AP required during simultaneous operations. Autopilot coupled approach NA below 213.
*RVR 1800 authorized with use of FD or AP or HUD to DA.

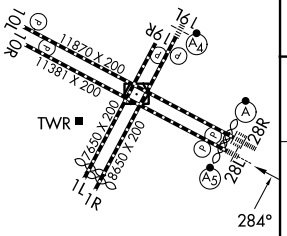
MALSR (A5)

MISSED APPROACH: Climb to 1020 then climbing left turn to 4000 direct OLYMM and hold.
*Missed approach requires minimum climb of 330 feet per NM to 1600; if unable to meet climb gradient, see RNAV (GPS) Rwy 28L.

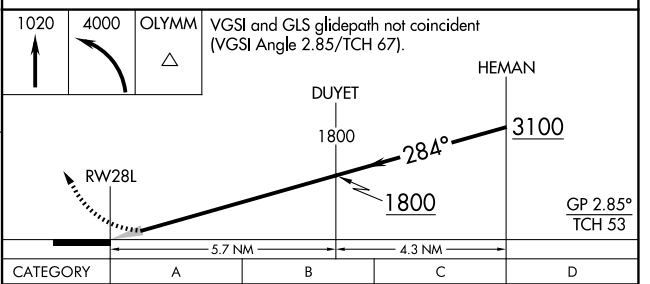
D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



ELEV 13 D TDZE 13



HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L



CATEGORY	A	B	C	D
GLS DA*	213/24	200 (200-½)		

SAN FRANCISCO, CALIFORNIA
Orig 02DEC21

37°37'N-122°23'W

SAN FRANCISCO INTL (SFO)
GLS RWY 28L

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

GBAS CH 20626 G28A	APP CRS 284°	Rwy Ldg 11236 TDZE 13 Apt Elev 13

GLS RWY 28R

SAN FRANCISCO INTL (SFO)

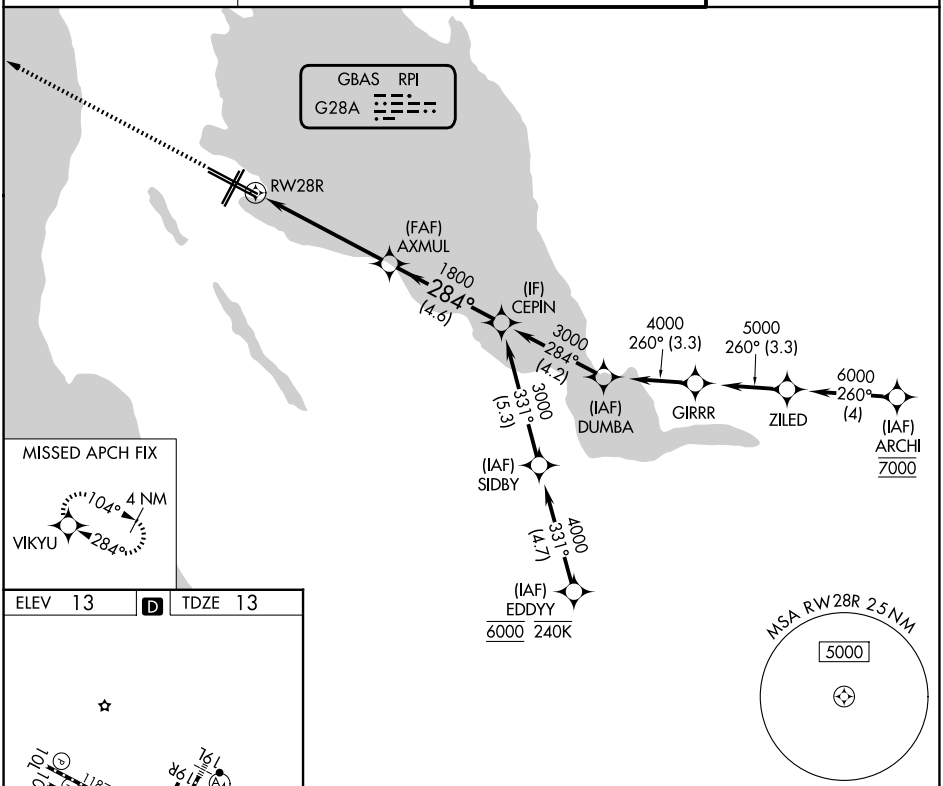
RNP APCH-GPS.

T NA Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glidepath. Use of FD or AP required during simultaneous operations. Autopilot coupled approach NA below 213 feet.

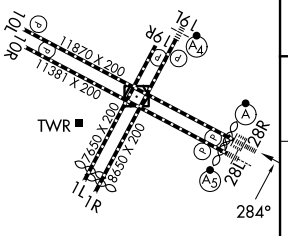
ALSF-2

MISSED APPROACH: Climb to 3200 direct VIKYU and hold.
*Missed approach requires minimum climb of 350 feet per NM to 1900; if unable to meet climb gradient, see RNAV (GPS) Z RWY 28R.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



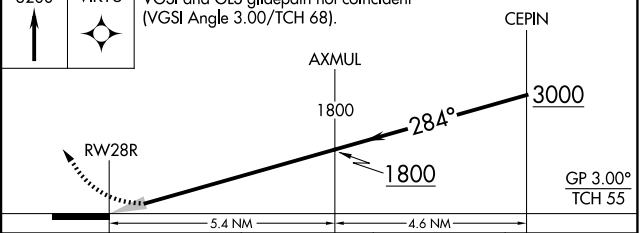
ELEV 13 D TDZE 13



HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L

3200 VIKYU

VGSI and GLS glidepath not coincident (VGSI Angle 3.00/TCH 68).



CATEGORY	A	B	C	D
GLS DA*	213/18 200 (200-½)			

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN FRANCISCO, CALIFORNIA | AL-375 (FAA) | 26134

APP CRS	Rwy Ldg	11236
284°	TDZE	13
	Apt Elev	13

RNAV (RNP) Y RWY 28R

SAN FRANCISCO INTL (SFO)

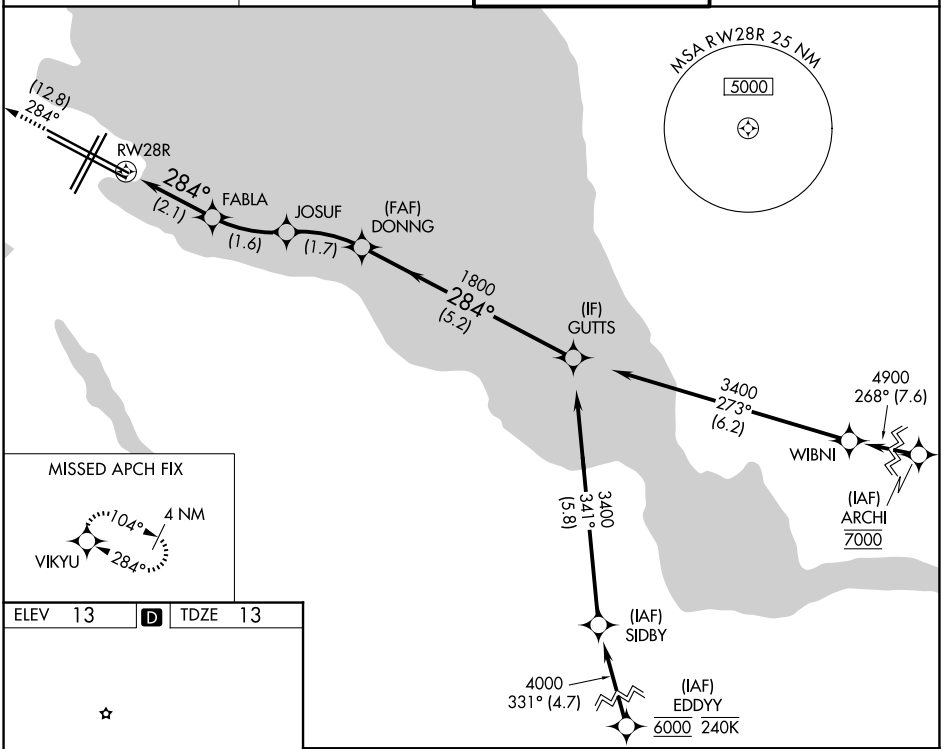
RNP AR APCH, RF required.

T For uncompensated Baro-VNAV systems, procedure NA below 3°C or above 54°C. For inop ALS, increase RNP 0.11 all Cats visibility to RVR 4000 and RNP 0.30 all Cats visibility to RVR 4500.

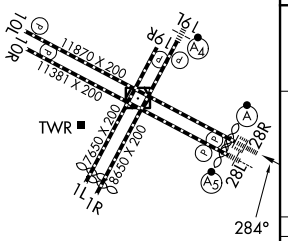
ALSF-2

MISSED APPROACH: Climb to 3000 on track 284° to VIKYU and hold.
*Missed approach requires minimum climb of 250 feet per NM to 1600.
#Missed approach requires minimum climb of 350 feet per NM to 2100.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



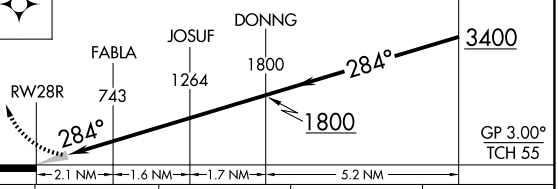
ELEV 13 | D | TDZE 13



HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L

3000 ↑ tr 284° | VIKYU

VGSI and RNAV glidepath not coincident
(VGSI Angle 3.00/TCH 68)



CATEGORY	A	B	C	D
RNP 0.11 DA*	263/24 250 (300-½)			
RNP 0.30 DA#	326/24 313 (400-½)			

AUTHORIZATION REQUIRED

SAN FRANCISCO, CALIFORNIA
Amdt 5 13SEP18

37°37'N-122°23'W

SAN FRANCISCO INTL (SFO)

RNAV (RNP) Y RWY 28R

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	10704
104°	TDZE	10
	Apt Elev	13

RNAV (RNP) Z RWY 10R

SAN FRANCISCO INTL (SFO)

For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). GPS required. When VGSI inop, procedure NA at night.

MISSED APPROACH: Climb to 3600 on track 104° to IGUKE and on track 103° to DUMBA and hold.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8

Procedure NA for arrivals at STINS on V25-199 and V27 northwest bound.

(IAF) STINS

3500 119° (9.3)

(IF) DOTNE

1900 104° (6.2)

(FAF) JULOS

RW10R

26

104° (7.2)

IGUKE

103° (8.7)

DUMBA

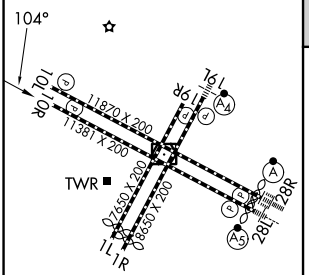
284° 104°

4 NM

MSA RW10R 25 NM

5100

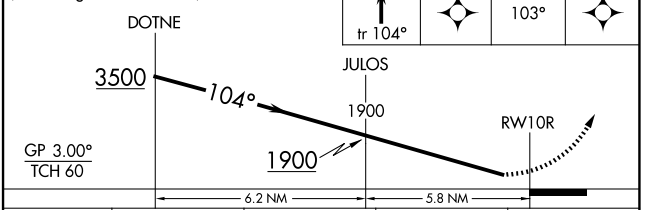
ELEV 13 D TDZE 10



TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L
HIRL all rwys

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 68).

3600	IGUKE	tr 103°	DUMBA
tr 104°			



CATEGORY	A	B	C	D
RNP 0.20 DA	396-1¼ 386 (400-1¼)			
RNP 0.30 DA	1108-4 1098 (1100-4)			

AUTHORIZATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg 11193
CH 93946	107°	TDZE 7
W10A		Apt Elev 13

RNAV (GPS) RWY 10L

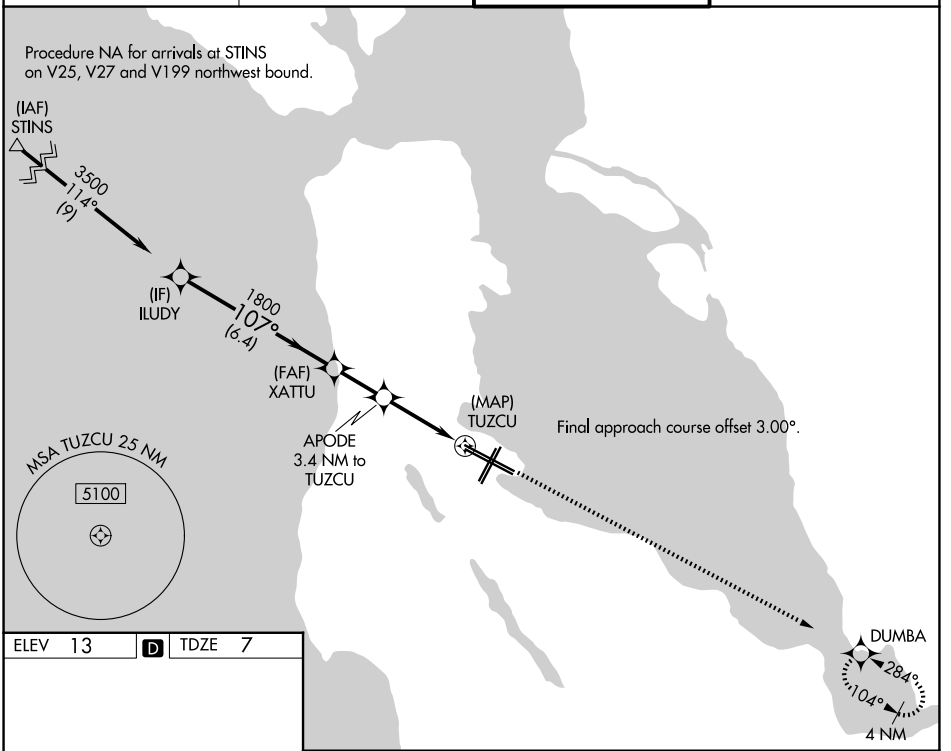
SAN FRANCISCO INTL (SFO)

RNP APCH - GPS.

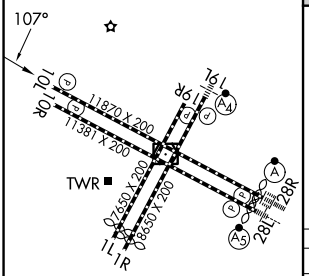
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 4°C or above 54°C. Rwy 10L helicopter visibility reduction below RVR 4000 NA.

MISSED APPROACH: Climb to 500, then climb to 3000 direct DUMBA and hold.

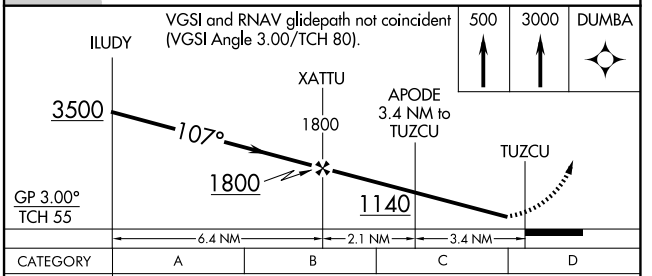
D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



ELEV 13 D TDZE 7



HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L



CATEGORY	A	B	C	D
LPV DA	257/40 250 (300-¾)			
LNAV/VNAV DA	494-1⅜ 487 (500-1⅜)			
LNAV MDA	1080-1¼ 1073 (1100-1¼)	1080-1½ 1073 (1100-1½)	1080-3 1073 (1100-3)	

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 58015 W19A	APP CRS 194°	Rwy Ldg 8650 TDZE 11 Apt Elev 13

RNAV (GPS) RWY 19L

SAN FRANCISCO INTL (SFO)

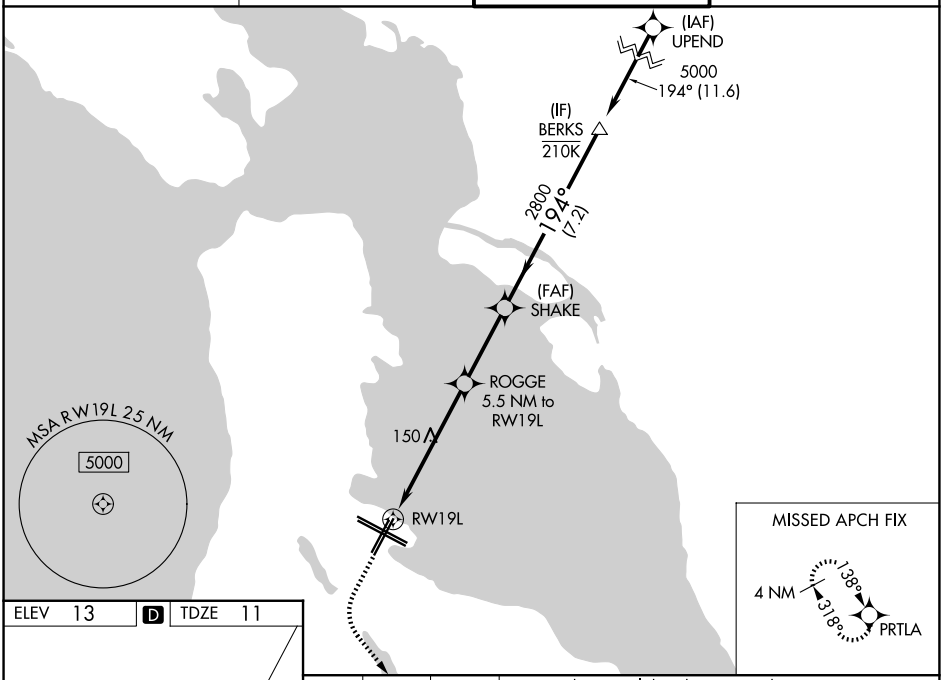
RNP APCH - GPS.

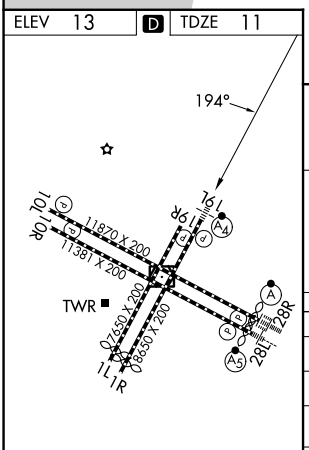
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 4°C or above 54°C. For inop ALS, increase LPV DA* (CG 357) all Cats visibility to RVR 4500. For inop ALS, increase LNAV/VNAV all Cats visibility to 2½ SM and LNAV Cats C and D visibility to 3 SM.

MALSF

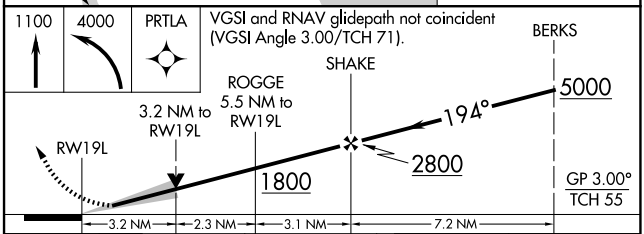
MISSED APPROACH: Climb to 1100 then climbing left turn to 4000 direct PRTLA and hold.
*Missed approach requires minimum climb of 357 feet per NM to 2000.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8





TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L
HIRL all rwys



CATEGORY	A	B	C	D
LPV DA*	293/40 282 (300-¾)			
LPV DA	656-1⅝ 645 (700-1⅝)			
LNAV/VNAV DA*	350/40 339 (400-¾)			
LNAV/VNAV DA	794-2 783 (800-2)			
LNAV MDA	1100/55 1089 (1100-1)	1100-1¼ 1089 (1100-1¼)	1100-2½ 1089 (1100-2½)	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 28L

SAN FRANCISCO INTL (SFO)

WAAS CH 53415 W28B	APP CRS 284°	Rwy Ldg 10275 / TDZE 13 / Apt Elev 13

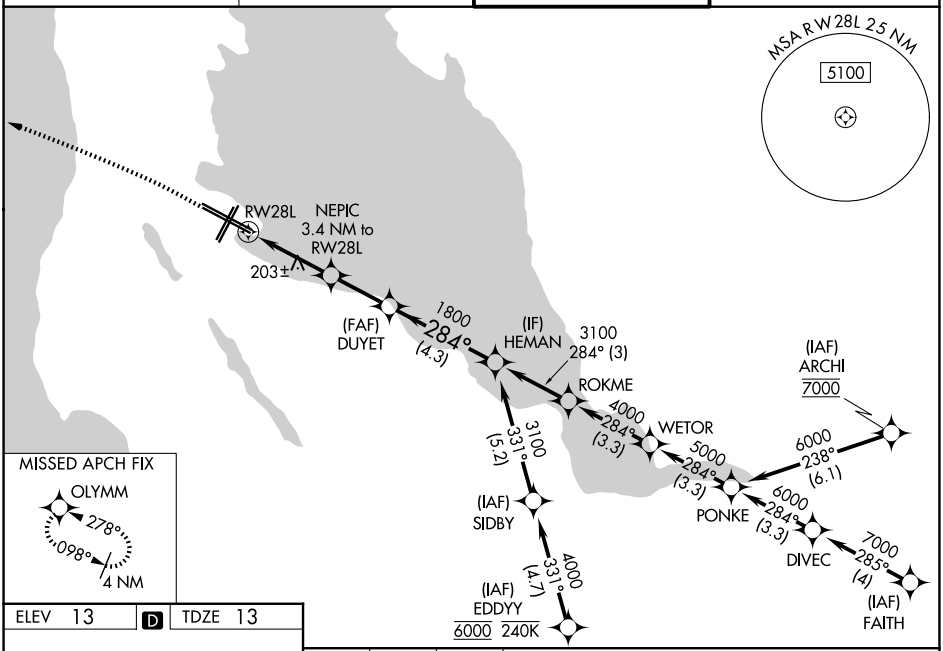
RNP APCH.

T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 3°C or above 54°C. For inop ALS, increase LPV† all Cats visibility to 2½ SM, increase LNAV/VNAV all Cats visibility to 2 SM. Circling NA to Rwys 10L, 10R, 19L, and 19R. Circling Rwy 1L, 1R NA at night.
#RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR (A5)

MISSED APPROACH: Climb to 1020 then climbing left turn to 4000 direct OLYMM and hold, continue climb-in-hold to 4000.
#Missed approach requires minimum climb of 330 feet per NM to 1600.

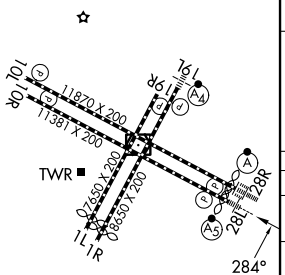
D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



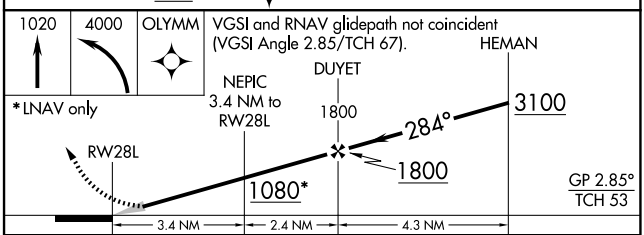
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ELEV 13 | D | TDZE 13



HIRL all rwys
TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L



CATEGORY	A	B	C	D
LPV DA#	213/24 200 (200-½)			
LPV DA†	798-1¾ 785 (800-1¾)			
LNAV/VNAV DA	770-1¾ 757 (800-1¾)			
LNAV MDA	1020/40 1007 (1100-¾)	1020/55 1007 (1100-1)	1020-2½ 1007 (1100-2½)	
CIRCLING	1020-1¼ 1007 (1100-1¼)	1020-1½ 1007 (1100-1½)	1560-3 1547 (1600-3)	NA

APP CRS	Rwy Ldg	11236
284°	TDZE	13
	Apt Elev	13

RNAV (GPS) U RWY 28R

SAN FRANCISCO INTL (SFO)

RNP APCH - GPS.
RADAR required.

Helicopter visibility reduction is NA.

ALSF-2

MISSED APPROACH: Continue on the depicted track to Rwy 28R. From Rwy 28R, climb to 3200 direct VIKYU and hold.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8

MISSED APCH FIX

VIKYU 104° 4 NM 284°

MSA RW28R 25 NM
5100

Cross SHLTN, fly visual to airport along depicted track.

RW28R
SAPPP
284°
203±
SHLTN
VGF
(Visual Guidance Fix)
276°
320
(FAF)
RAACL
1800
278°
(3.8)
(IF)
JANYY
3000
278°
(5)
GAROW
4000
278°
(5)
6000
258° (5.3)
TRBOW
(IAF)
ARCHI
7000
3000
331°
(6.6)
SIDBY
5000
331°
(4.7)
(IAF)
EDDYY
6000 240K

ELEV 13 D TDZE 13

TWR

10L 28R
10R 28L
19L 1L
19R 1R
11870 X 200
11381 X 200
07L 25R
07R 25L
08L 26R
08R 26L

284°

HIRL all rwys
REIL Rwys 1L, 1R and 10L
TDZL/RCLS Rwys 19L and 28R

3200 VIKYU Turn required from VGF to RW28R.

RW28R
SAPPP
399
SHLTN
914
RAACL
3.00°
TCH 68
1800
JANYY
278°
3000
276°
1800
284°

1 NM 1.6 NM 2.8 NM 3.8 NM

CATEGORY	A	B	C	D
LNAV MDA	914-3	901 (1000-3)		

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN FRANCISCO, CALIFORNIA | AL-375 (FAA) | 26134

RNAV (GPS) Y RWY 10R

SAN FRANCISCO INTL (SFO)

APP CRS	Rwy Ldg	10704
104°	TDZE	10
	Apt Elev	13

DME/DME RNP-0.3 NA. When VGSI inop, procedure NA at night. Helicopter visibility reduction below RVR 5000 NA.

MISSED APPROACH: Climb to 4000 direct DUMBA and hold.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8

Procedure NA for arrivals at STINS on V25-199 and V27 northwest bound.

(IAF) STINS

3500 119° (9.3)

(IF) DOTNE

1900 104° (6.2)

(FAF) JULOS

RW10R

MSA RW10R 25 NM

5100

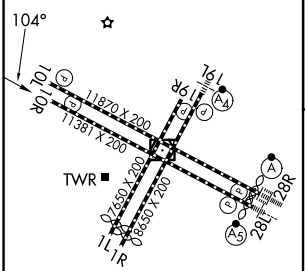
DUMBA

284° 104° 4 NM

SW-2, 09 JUL 2026 to 03 SEP 2026

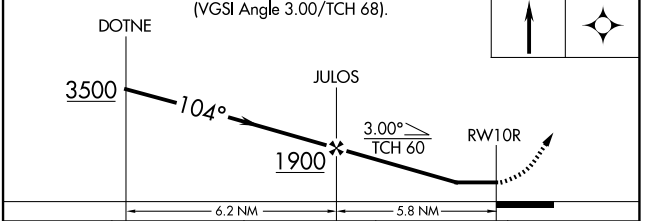
SW-2, 09 JUL 2026 to 03 SEP 2026

ELEV 13 | D | TDZE 10



TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L
HIRL all rwys

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 68).



CATEGORY	A	B	C	D
LNAV MDA	1200/60 1190 (1200-1¼)	1200-1½ 1190 (1200-1½)	1200-3	1190 (1200-3)

SAN FRANCISCO, CALIFORNIA
Amdt 2A 26JUN14

37°37′N-122°23′W

SAN FRANCISCO INTL (SFO)

RNAV (GPS) Y RWY 10R

WAAS CH 53533 W19B	APP CRS 194°	Rwy Ldg 7650 TDZE 11 Apt Elev 13

RNAV (GPS) Y RWY 19R

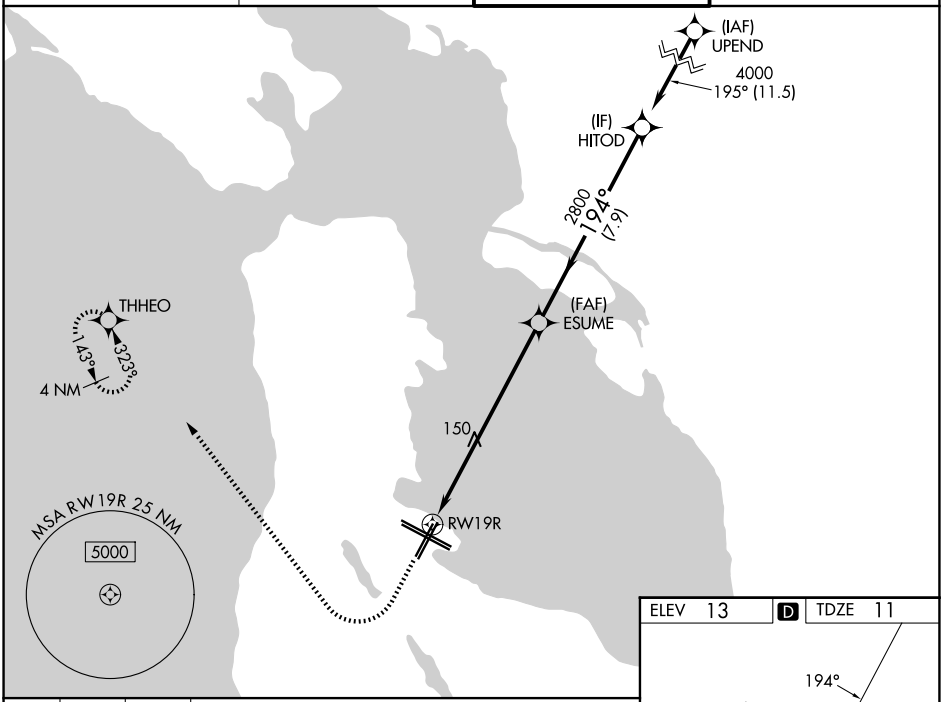
SAN FRANCISCO INTL (SFO)

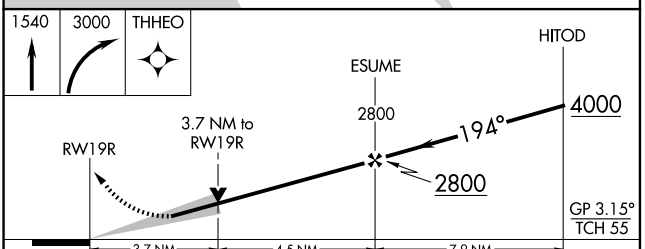
RNP APCH-GPS.

LNAV procedure NA during simultaneous operations. Use of FD or AP required during simultaneous operations. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 4°C or above 54°C. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glidepath. Simultaneous approach NA below 12°C (52°F).

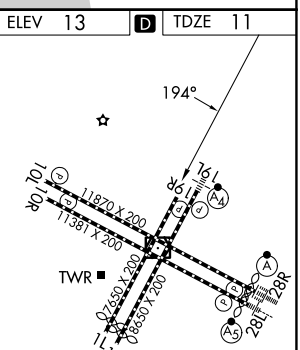
MISSED APPROACH: Climb to 1540 then climbing right turn to 3000 direct THHEO and hold.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8





CATEGORY	A	B	C	D
LPV DA	1005-4 994 (1000-4)			
LNAV/VNAV DA	878-2½ 867 (900-2½)			
LNAV MDA	1320-1¼ 1309 (1400-1¼)	1320-1½ 1309 (1400-1½)	1320-3 1309 (1400-3)	



TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L
HIRL all rwys

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN FRANCISCO, CALIFORNIA AL-375 (FAA) 26134

WAAS CH 57945 W19D	APP CRS 194°	Rwy Ldg 7650 TDZE 11 Apt Elev 13

RNAV (GPS) Z RWY 19R

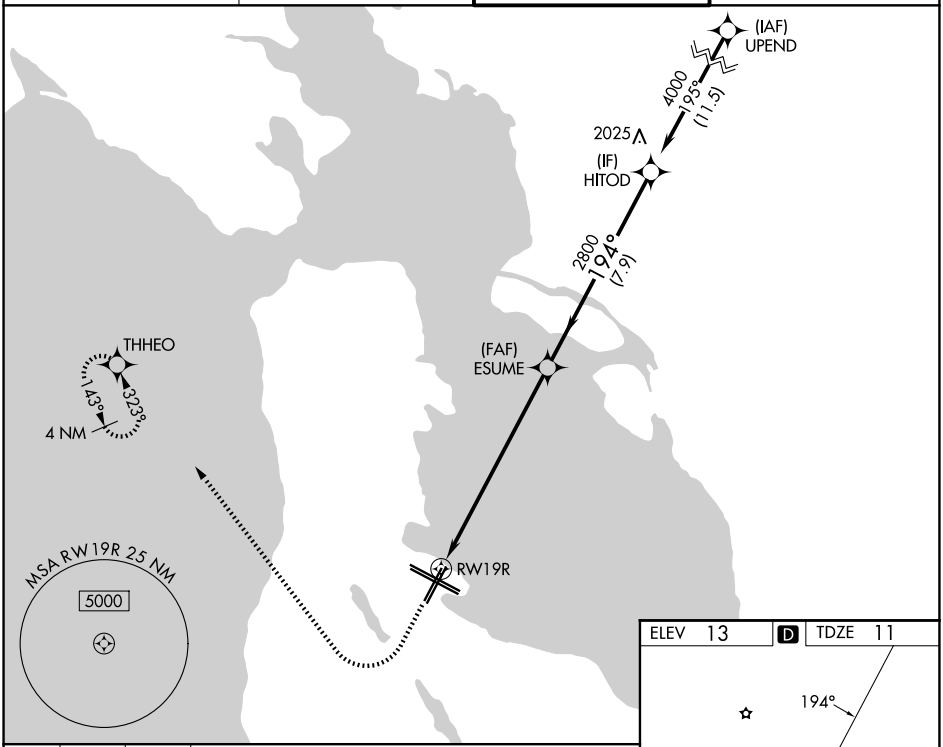
SAN FRANCISCO INTL (SFO)

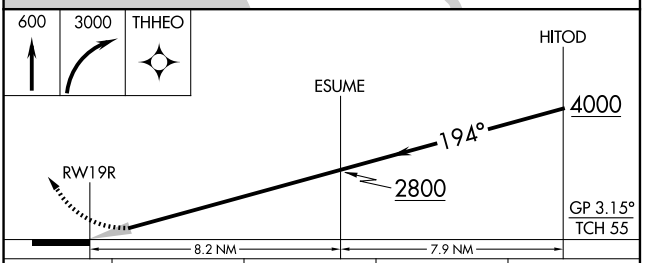
RNP APCH - GPS.

Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glidepath. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 4°C or above 54°C. Simultaneous approach NA below 12°C (52°F). Use of FD or AP required during simultaneous operations.

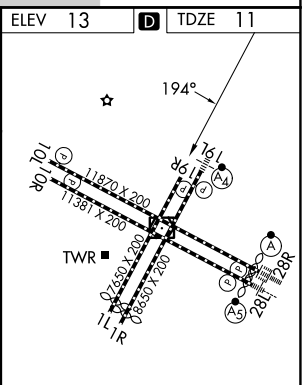
MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct THHEO and hold.
*Missed approach requires minimum climb of 395 feet per NM to 2100; if unable to meet climb gradient, see RNAV (GPS) Y RWY 19R.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8





CATEGORY	A	B	C	D
LPV DA*	317/45	306 (400-⅞)		
LNAV/VNAV DA*	328/45	317 (400-⅞)		



TDZE/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L
HIRL all rwys

SAN FRANCISCO, CALIFORNIA
Orig-A 17APR25

37°37'N-122°23'W

SAN FRANCISCO INTL (SFO)

RNAV (GPS) Z RWY 19R

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	11236
CH 48803	284°	TDZE	13
W28A		Apt Elev	13

RNAV (GPS) Z RWY 28R

SAN FRANCISCO INTL (SFO)

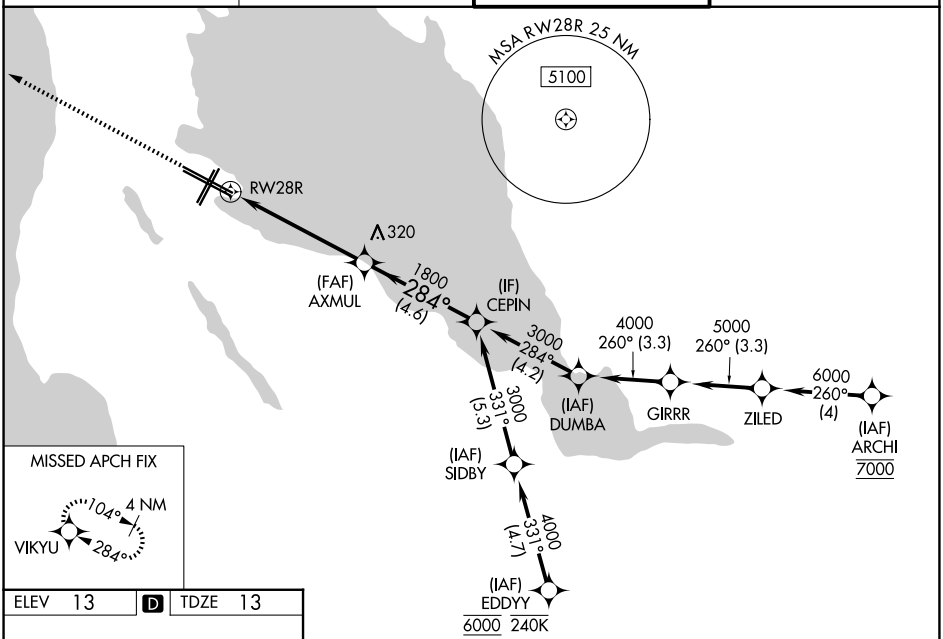
RNP APCH - GPS.

Circling NA to Rwys 10L, 10R, 19L, and 19R. Circling Rwy 1L, 1R NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 4°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to 1¾ SM, increase LNAV Cat C/D visibility to 2 SM.

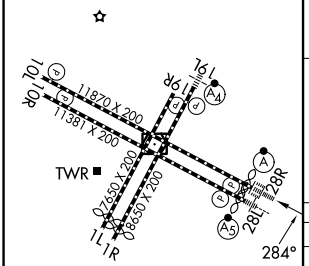
ALSF-2

MISSED APPROACH: Climb to 3000 direct VIKYU and hold.
*Missed approach requires minimum climb of 350 feet per NM to 1900; if unable to meet climb gradient, see RNAV (GPS) RWY 28L.

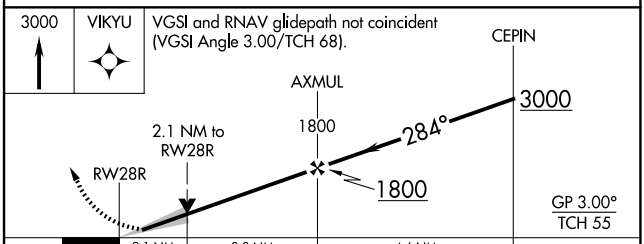
D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8



ELEV 13 D TDZE 13



TDZL/RCLS Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L
HIRL all rwys



CATEGORY	A	B	C	D
LPV DA*	213/18 200 (200-½)			
LNAV/VNAV DA	642-1⅜ 629 (700-1⅜)			
LNAV MDA	760/24 747 (800-½)	760/40 747 (800-¾)	760-1¾ 747 (800-1¾)	
CIRCLING	760-1 747 (800-1)	1020-1½ 1007 (1100-1½)	1640-3 1627 (1700-3)	NA

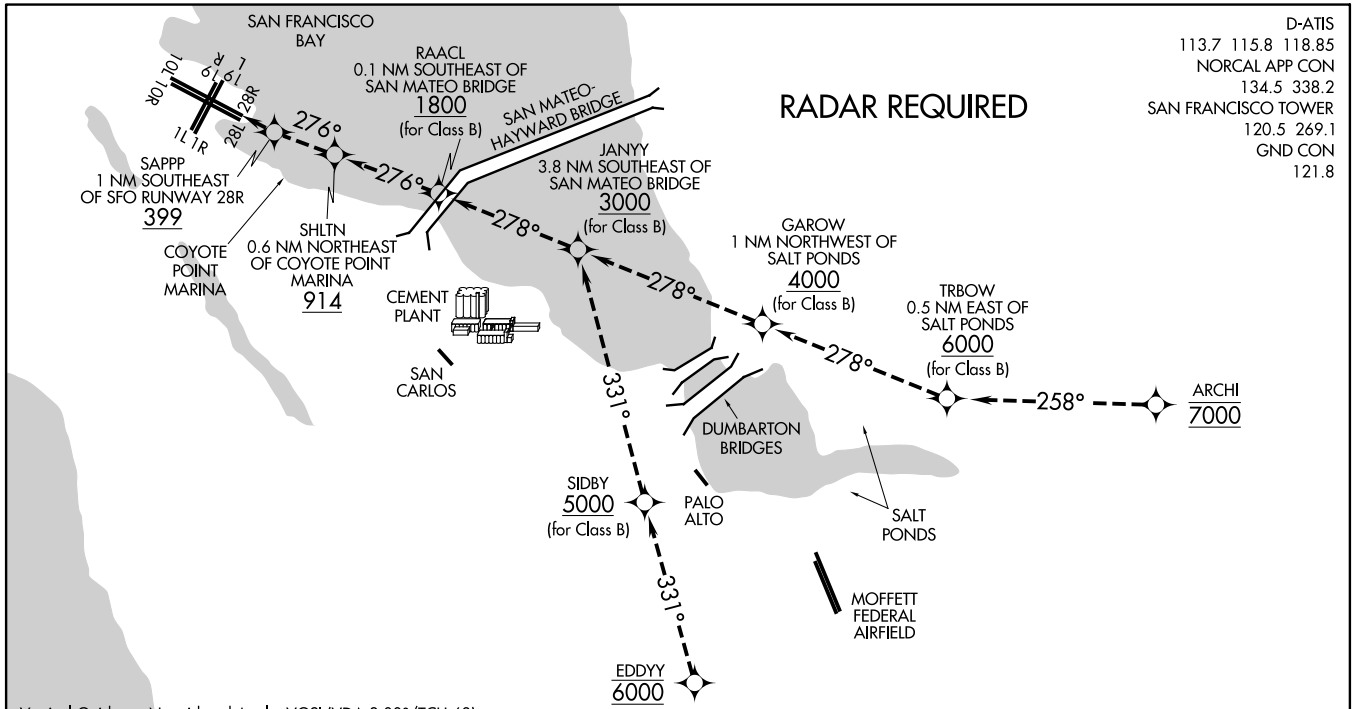
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

QUIET BRIDGE VISUAL RWY 28R

Orig 09JUL26

37°37'N-122°23'W

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)



Vertical Guidance Navaid and Angle: VGSI (VDA 3.00°/TCH 68)

Weather Minimums: SFO 2500′/5 or SFO 1000′/3 with 5 SM visibility in eastern quadrant (030° to 120°).

	1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

QUIET BRIDGE VISUAL APPROACH RUNWAY 28R

NOTE: Closely spaced parallel approaches may be in progress to Runway 28L utilizing I-SFO.

When cleared for the QUIET BRIDGE VISUAL RUNWAY 28R aircraft may proceed via the RNAV (GPS) U Rwy 28R approach to runway 28R. From the south EDDYY to SIDBY to JANYY to RAACL to SHLTN to SAPPP inbound. From the east ARCHI to TRBOW to GAROW to JANYY to RAACL to SHLTN to SAPPP inbound.

QUIET BRIDGE VISUAL RWY 28R

26190

320

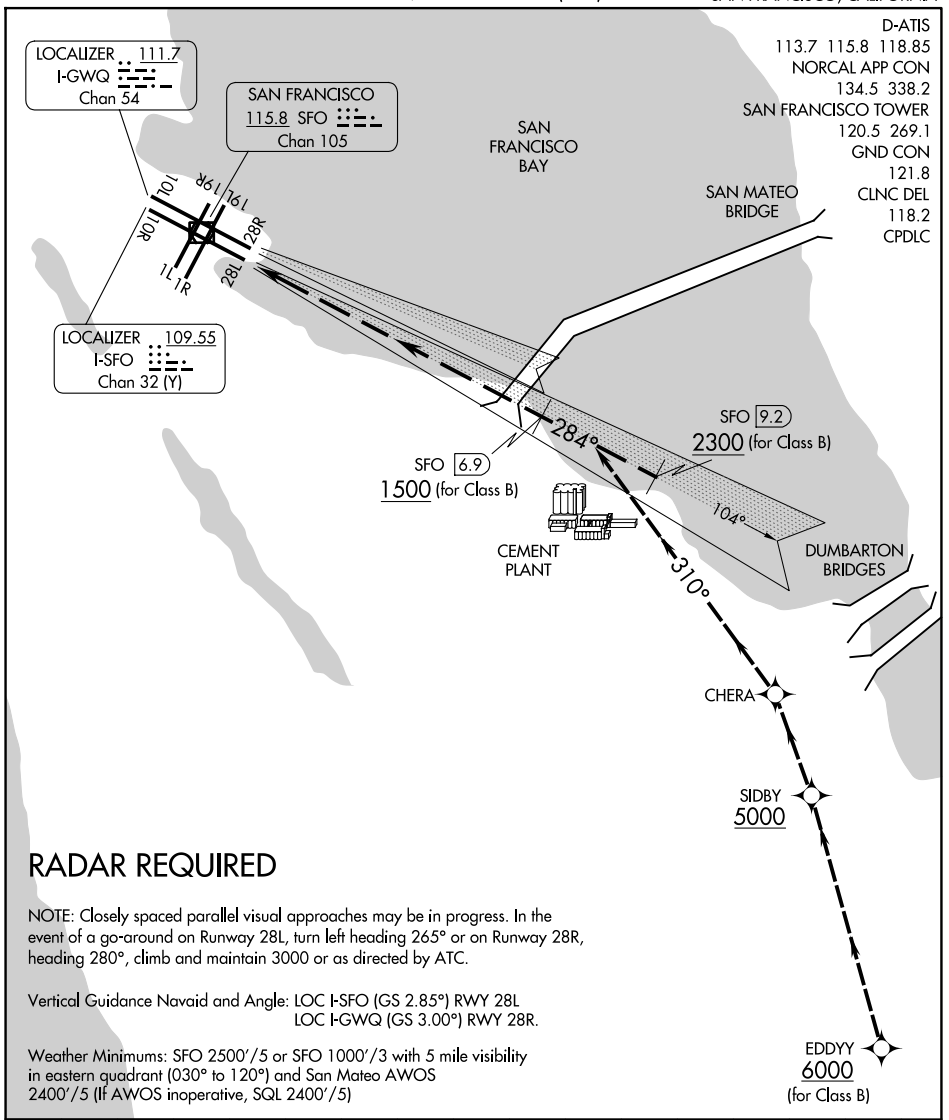
AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

TIPP TOE VISUAL RWY 28L/R

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



RADAR REQUIRED

NOTE: Closely spaced parallel visual approaches may be in progress. In the event of a go-around on Runway 28L, turn left heading 265° or on Runway 28R, heading 280°, climb and maintain 3000 or as directed by ATC.

Vertical Guidance Navaid and Angle: LOC I-SFO (GS 2.85°) RWY 28L
LOC I-GWQ (GS 3.00°) RWY 28R.

Weather Minimums: SFO 2500′/5 or SFO 1000′/3 with 5 mile visibility in eastern quadrant (030° to 120°) and San Mateo AWOS 2400′/5 (If AWOS inoperative, SQL 2400′/5)

	1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

TIPP TOE VISUAL APPROACH RUNWAY 28L/R

At/above 6000 at EDDYY, proceed to SIDBY at/above 5000, north turn at SIDBY to CHERA.
Runway 28L, from CHERA 310° heading to intercept the I-SFO localizer.
Runway 28R, from CHERA 310° heading to intercept the I-GWQ localizer.
In the event of a go-around on Runway 28L, turn left on heading 265°. For a go-around on Runway 28R, heading 280°, climb and maintain 3000 or as directed by ATC.

TIPP TOE VISUAL RWY 28L/R

Amdt 3 24MAR22

37°37′N-122°23′W

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

CIITY THREE DEPARTURE (RNAV)

(CIITY3.CIITY) 20AUG15

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 10L: Climb heading 104° to 520, then direct ORYAN, then on track 102° to SAHEY, then on track 101° to cross CIITY at or above 5000. Thence. . . .
TAKEOFF RUNWAY 10R: Climb heading 104° to 520, then direct URRSA, then on track 101° to SAHEY, then on track 101° to cross CIITY at or above 5000. Thence. . . .
TAKEOFF RUNWAYS 19L/19R: Climb heading 194° to 520, then left turn direct to cross CIITY at or above 5000. Thence. . . .

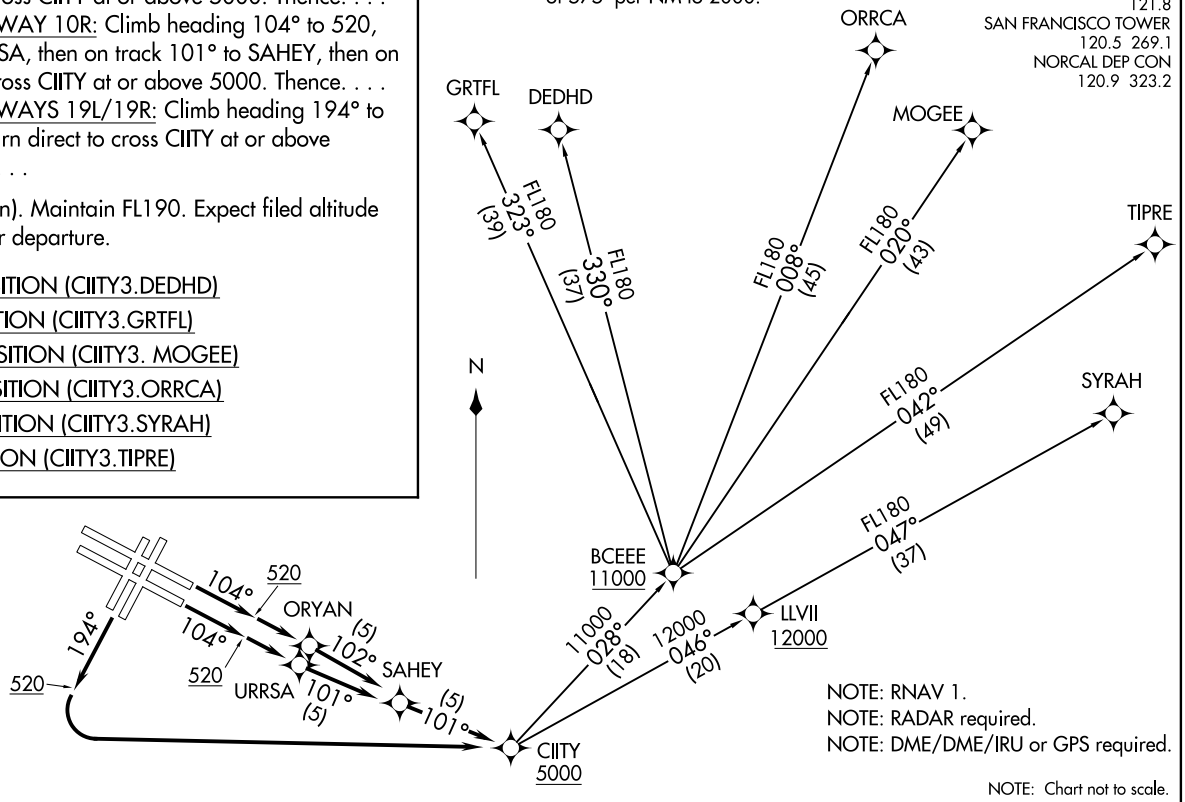
. . . on (transition). Maintain FL190. Expect filed altitude 10 minutes after departure.

DEDHD TRANSITION (CIITY3.DEDHD)
GRTFL TRANSITION (CIITY3.GRTFL)
MOGEE TRANSITION (CIITY3. MOGEE)
ORRCA TRANSITION (CIITY3.ORRCA)
SYRAH TRANSITION (CIITY3.SYRAH)
TIPRE TRANSITION (CIITY3.TIPRE)

TAKEOFF MINIMUMS
Rwys 10L/R: Standard with minimum climb of 500' per NM to 520.
Rwys 19L/R: Standard with minimum climb of 575' per NM to 2000.

TOP ALTITUDE: FL190

D-ATIS 113.7 115.8 118.85
CLNC DEL 118.2
CPDLC
GND CON 121.8
SAN FRANCISCO TOWER 120.5 269.1
NORCAL DEP CON 120.9 323.2



NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.

NOTE: Chart not to scale.

(CIITY3.CIITY) 17341

CIITY THREE DEPARTURE (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

323

(GAPP7.GAP) 23334

GAP SEVEN DEPARTURE

AL-375 (FAA)

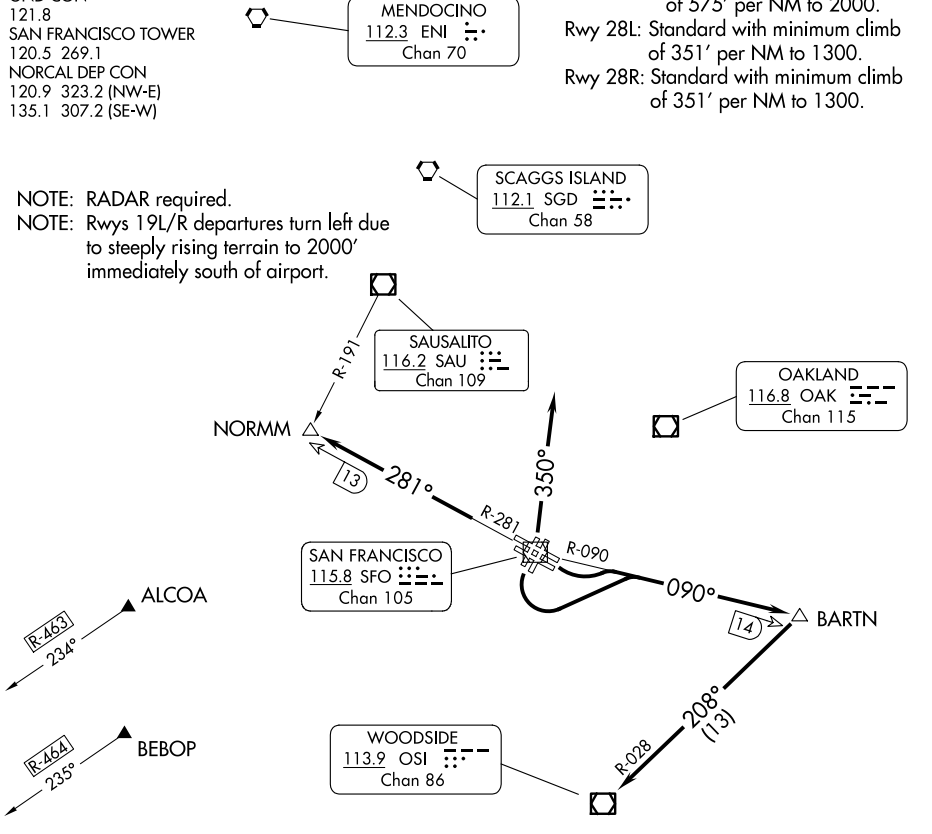
SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

D-ATIS
113.7 115.8 118.85
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2 (NW-E)
135.1 307.2 (SE-W)

TAKEOFF MINIMUMS

Rwy 19L/R: Standard with minimum climb of 575′ per NM to 2000.
Rwy 28L: Standard with minimum climb of 351′ per NM to 1300.
Rwy 28R: Standard with minimum climb of 351′ per NM to 1300.

NOTE: RADAR required.
NOTE: Rwys 19L/R departures turn left due to steeply rising terrain to 2000′ immediately south of airport.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb on SFO R-350 (or as assigned) for vectors to assigned route/fix. Thence . . . .

TAKEOFF RUNWAYS 10L/R and 19L/R: Turn left and climb on the SFO R-090 and OSI R-028 to OSI VOR/DME; expect vector to assigned route/fix after OSI VOR/DME. Thence . . . .

TAKEOFF RUNWAYS 28L/R: Climb on the SFO VOR/DME R-281 to NORMM INT/ SFO VOR/DME 13 DME; expect vector to assigned route/fix after NORMM INT. Thence . . . .

. . . .expect further clearance to filed altitude 10 minutes after departure.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

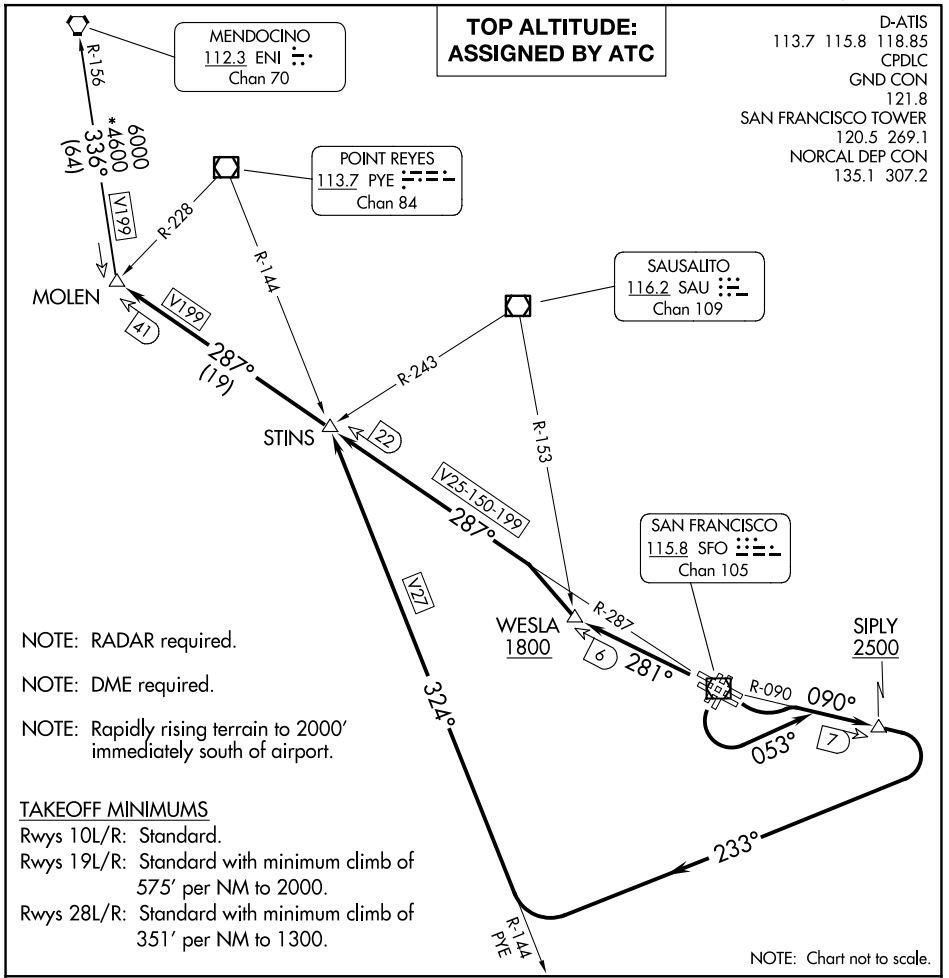
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(MOLEN9.MOLEN) 23334

MOLEN NINE DEPARTURE

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 10L/R: Climbing left turn to intercept SFO R-090 to cross SIPLY 7 DME FIX at or above 2500, then climbing right turn heading 233° to intercept and proceed on PYE R-144 to STINS INT/SFO 22 DME, then on SFO VOR/DME R-287 to MOLEN INT/SFO 41 DME. Thence . . . .

TAKEOFF RUNWAYS 19L/R: Climbing left turn to heading 053° to intercept SFO R-090 to cross SIPLY 7 DME FIX at or above 2500, then climbing right turn heading 233° to intercept and proceed on PYE R-144 to STINS INT/SFO VOR/DME 22 DME, then on SFO VOR/DME R-287 to MOLEN INT/SFO 41 DME. Thence . . . .

TAKEOFF RUNWAYS 28 L/R: Climb on SFO VOR/DME R-281 to cross WESLA INT/SFO VOR/DME 6 DME at or above 1800 then climbing right turn to intercept SFO R-287 to MOLEN INT/SFO 41 DME. Thence . . . .

. . . . (transition). Expect clearance to filed altitude 10 minutes after departure.

MENDOCINO TRANSITION (MOLEN9.ENI): From over MOLEN INT on ENI R-156 to ENI VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

NIITE FOUR DEPARTURE (RNAV)

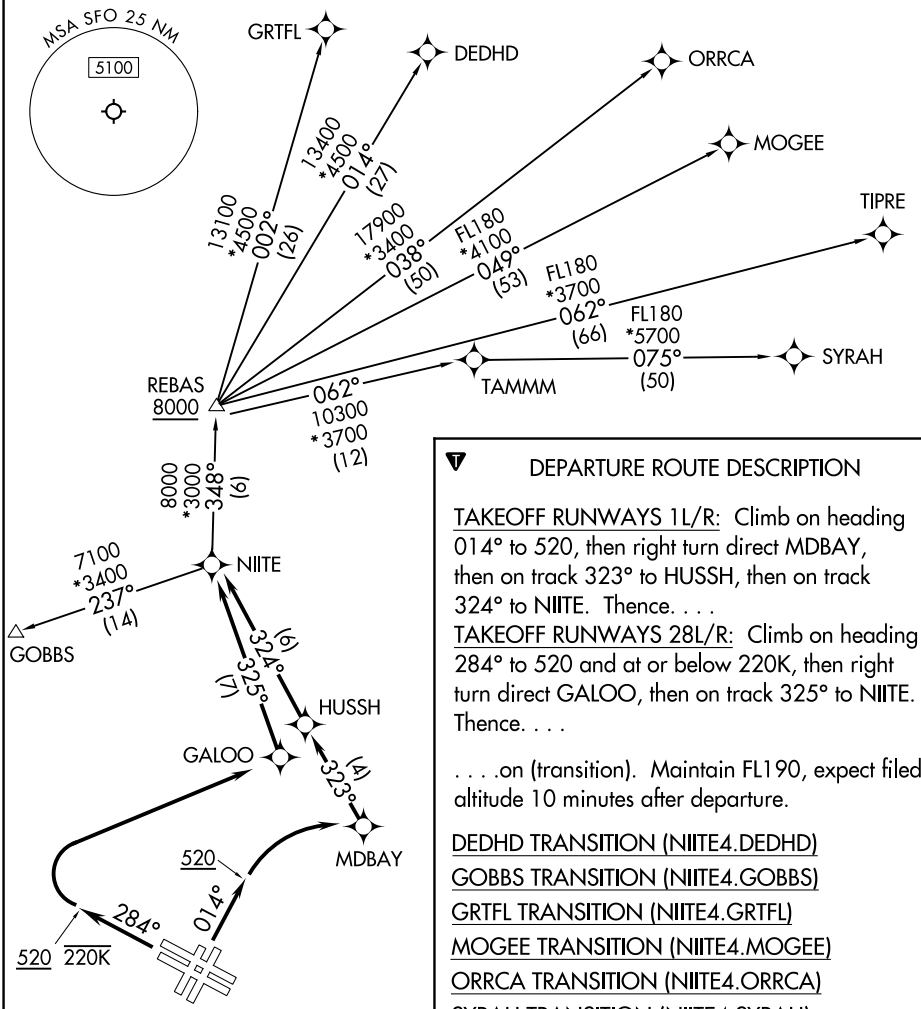
AL-375 (FAA)

NORCAL DEP CON
120.9 323.2
D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.

TOP ALTITUDE: FL190

TAKEOFF MINIMUMS
Rwys 1L/R: Standard with minimum climb of 500'/NM to 520.
Rwys 10L/R, 19L/R: NA-ATC.
Rwy 28L: Standard with minimum climb of 535'/NM to 2100.
Rwy 28R: Standard with minimum climb of 560'/NM to 2100.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb on heading 014° to 520, then right turn direct MDBAY, then on track 323° to HUSSH, then on track 324° to NIITE. Thence. . . .
TAKEOFF RUNWAYS 28L/R: Climb on heading 284° to 520 and at or below 220K, then right turn direct GALOO, then on track 325° to NIITE. Thence. . . .

. . . .on (transition). Maintain FL190, expect filed altitude 10 minutes after departure.

DEDHD TRANSITION (NIITE4.DEDHD)
GOBBS TRANSITION (NIITE4.GOBBS)
GRTFL TRANSITION (NIITE4.GRTFL)
MOGEE TRANSITION (NIITE4.MOGEE)
ORRCA TRANSITION (NIITE4.ORRCA)
SYRAH TRANSITION (NIITE4.SYRAH)
TIPRE TRANSITION (NIITE4.TIPRE)

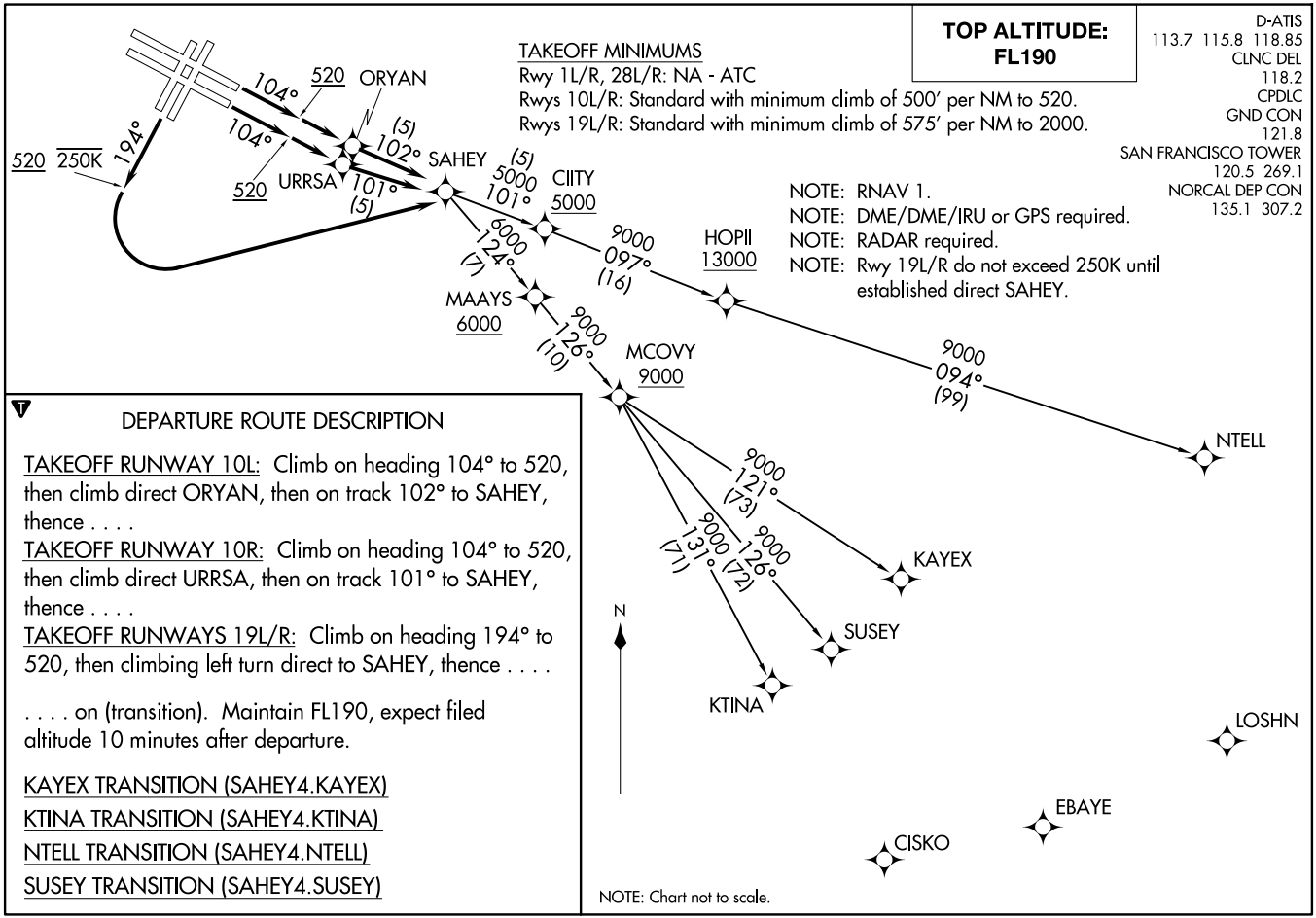
SW-2, 09 JUL 2026 to 03 SEP 2026

SAHEY FOUR DEPARTURE (RNAV)

(SAHEY4.SAHEY) 12AUG21

SAN FRANCISCO, CALIFORNIA

SAN FRANCISCO INTL (SFO)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 10L: Climb on heading 104° to 520, then climb direct ORYAN, then on track 102° to SAHEY, thence . . . .

TAKEOFF RUNWAY 10R: Climb on heading 104° to 520, then climb direct URRSA, then on track 101° to SAHEY, thence . . . .

TAKEOFF RUNWAYS 19L/R: Climb on heading 194° to 520, then climbing left turn direct to SAHEY, thence . . . .

. . . . on (transition). Maintain FL190, expect filed altitude 10 minutes after departure.

KAYEX TRANSITION (SAHEY4.KAYEX)

KTINA TRANSITION (SAHEY4.KTINA)

NTELL TRANSITION (SAHEY4.NTELL)

SUSEY TRANSITION (SAHEY4.SUSEY)

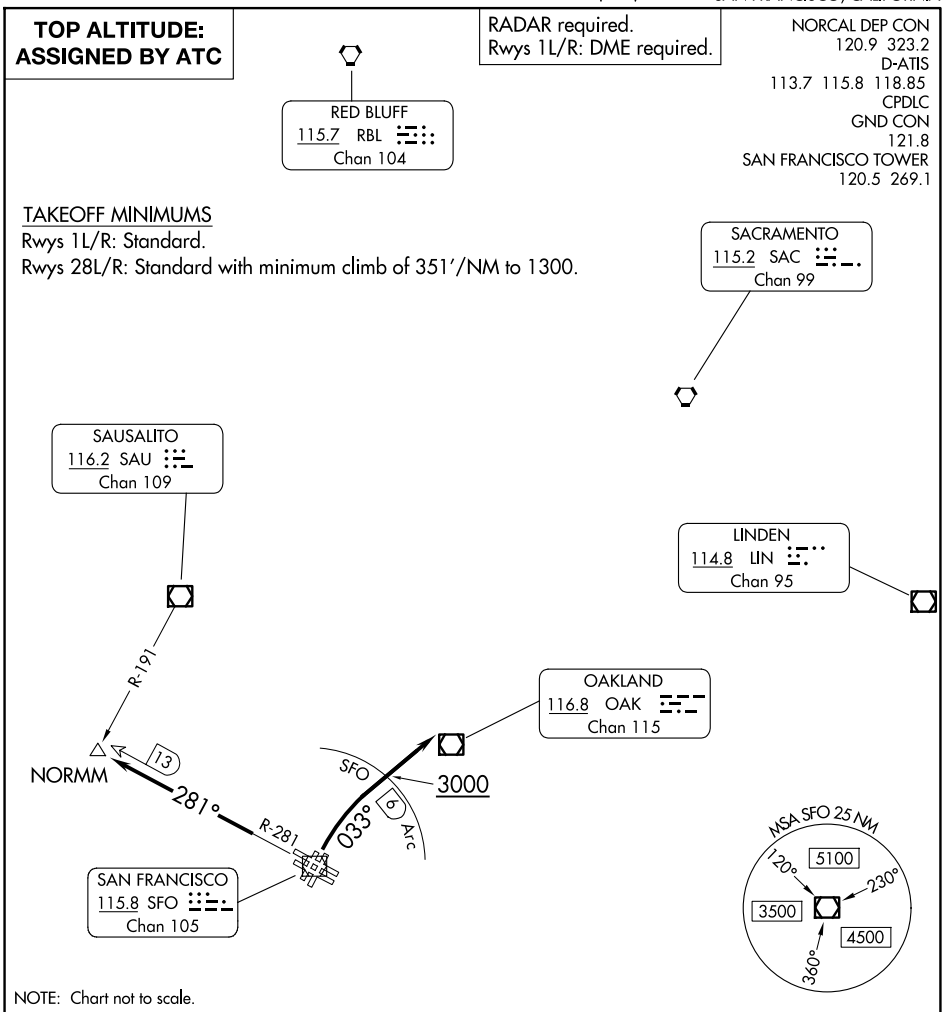
(SAHEY4.SAHEY) 21224

AL-375 (FAA)

SAHEY FOUR DEPARTURE (RNAV)

SAN FRANCISCO INTL (SFO)

SAN FRANCISCO, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climbing right turn heading 033° or ATC assigned heading to cross SFO 6 DME at or above 3000 for RADAR vectors to assigned route/fix. Expect further clearance to filed altitude 10 minutes after departure.

TAKEOFF RUNWAYS 28L/R: Climb on SFO VOR/DME R-281 to NORMM INT/SFO 13 DME; then expect RADAR vectors to assigned route/fix. Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:
If not in contact with departure control after reaching 3000, continue climb to filed altitude and proceed direct to assigned route/fix.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(SEGUL1.SEGUL) 24193

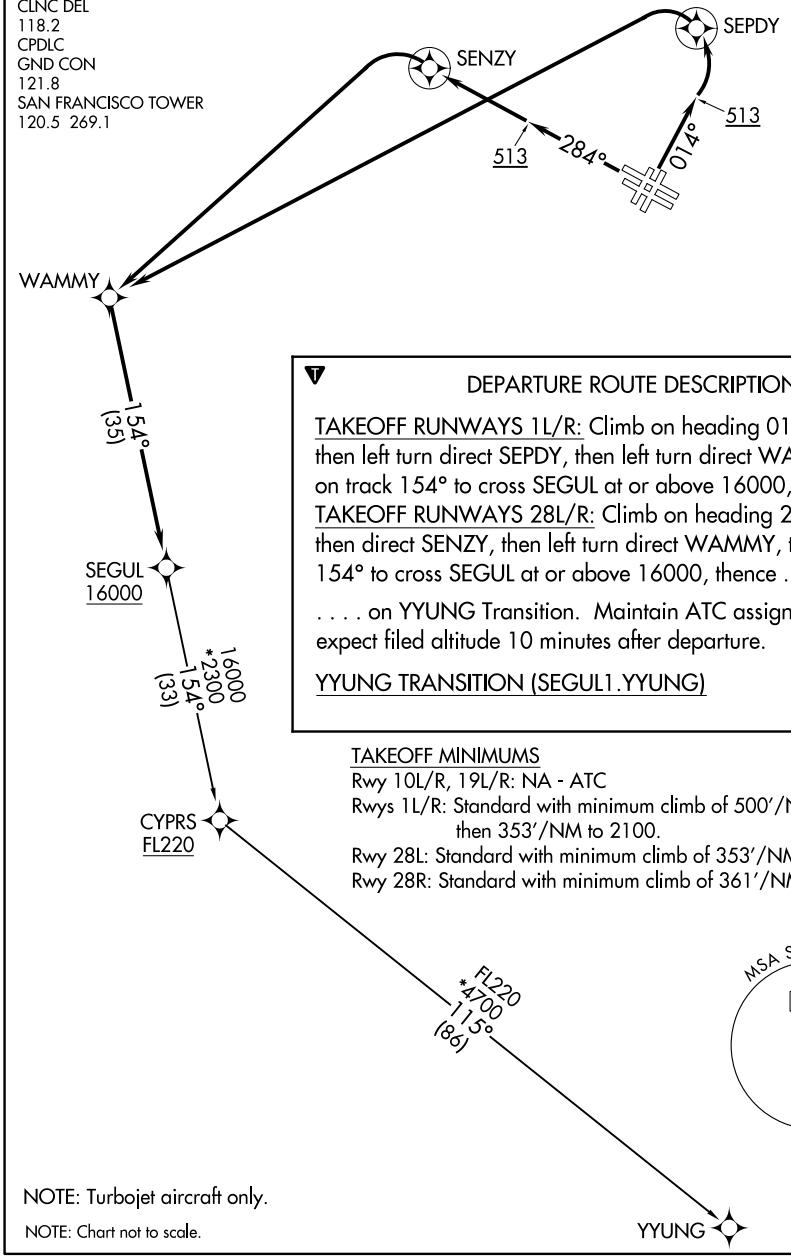
SEGUL ONE DEPARTURE (RNAV)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA
AL-375 (FAA)

NORCAL DEP CON
135.1 307.2
D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1

TOP ALTITUDE: ASSIGNED BY ATC

RNAV 1 - DME/DME/IRU or GPS.
RADAR required for non-GPS equipped aircraft.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb on heading 014° to 513, then left turn direct SEPDY, then left turn direct WAMMY, then on track 154° to cross SEGUL at or above 16000, thence . . . .
TAKEOFF RUNWAYS 28L/R: Climb on heading 284° to 513, then direct SENZY, then left turn direct WAMMY, then on track 154° to cross SEGUL at or above 16000, thence . . . .

. . . . on YYUNG Transition. Maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

YYUNG TRANSITION (SEGUL1.YYUNG)

TAKEOFF MINIMUMS
Rwy 10L/R, 19L/R: NA - ATC
Rwys 1L/R: Standard with minimum climb of 500'/NM to 513 then 353'/NM to 2100.
Rwy 28L: Standard with minimum climb of 353'/NM to 1200.
Rwy 28R: Standard with minimum climb of 361'/NM to 1100.

NOTE: Turbojet aircraft only.
NOTE: Chart not to scale.

SW-2, 09 JUL 2026 to 03 SEP 2026

TOP ALTITUDE: 3000
N
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: Chart not to scale.
KYNNG
520
284°
KRLOS
344°
(7)
052°
(5)
SNTNA
GRTFL
DEDHD
10700
003°
(32)
10900
013°
(33)
15300
035°
(55)
15800
045°
(58)
ORRCA
MOGEE
FL180
057°
(70)
17000
067°
(64)
TIPRE
SYRAH
TAKEOFF MINIMUMS
Rwys 28L/R: Standard with a minimum climb of 500' per NM to 1300.
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RUNWAYS 28L/R: Climb heading 284° to 520, then direct KYNNG, then on depicted route to SNTNA. Thence . . . .
. . . .on (transition). Maintain 3000. Expect filed altitude 10 minutes after departure.
DEDHD TRANSITION (SNTNA2.DEDHD)
GRTFL TRANSITION (SNTNA2.GRTFL)
MOGEE TRANSITION (SNTNA2.MOGEE)
ORRCA TRANSITION (SNTNA2.ORRCA)
SYRAH TRANSITION (SNTNA2.SYRAH)
TIPRE TRANSITION (SNTNA2.TIPRE)
SW-2, 09 JUL 2026 to 03 SEP 2026
D-ATIS 113.7 115.8 118.85
CLNC DEL 118.2
CPDLC
GND CON 121.8
SAN FRANCISCO TOWER 120.5 269.1
NORCAL DEP CON 120.9 323.2

(SSTIK5.SSTIK) 21224

SSTIK FIVE DEPARTURE (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

SW-2, 09 JUL 2026 to 03 SEP 2026

D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2

TOP ALTITUDE: FL190

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb on heading 014° to 520 and at or below 210K, then climbing left turn direct SSTIK, then climbing left turn direct to cross PORTE at or below 10000. Thence. . . .

. . . . on (transition). Maintain FL190, expect filed altitude 10 minutes after departure.

KAYEX TRANSITION (SSTIK5.KAYEX)
KTINA TRANSITION (SSTIK5.KTINA)
NTELL TRANSITION (SSTIK5.NTELL)
SUSEY TRANSITION (SSTIK5.SUSEY)
YYUNG TRANSITION (SSTIK5.YYUNG)

SSTIK
520 210K
014°
PORTE
10000
(8)
5700
112°
UTOOB
6300
174°
(29)
FFOIL
9000
090°
(121)
NTELL
9000
115°
(95)
9000
122°
(91)
9000
119°
(93)
KAYEX
SUSEY
KTINA
12000
135°
(70)
LIBBO
12000
114°
(47)
YYUNG
EBAYE
LOSHN
CISKO

TAKEOFF MINIMUMS
Rwys 10L/R, 19L/R, 28L/R: NA-ATC.
Rwys 1L/R: Standard with minimum climb of 500′ per NM to 1600.

NOTE: GPS required.
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: Do not exceed 210K until leaving 520 feet.

NOTE: Chart not to scale.

SSTIK FIVE DEPARTURE (RNAV)

(SSTIK5.SSTIK) 12AUG21

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

TRUKN TWO DEPARTURE (RNAV)

(TRUKN2.TRUKN) 25JUN15

SAN FRANCISCO, CALIFORNIA

SAN FRANCISCO INTL (SFO)

TRUKN TWO DEPARTURE (RNAV)

(TRUKN2.TRUKN) 17341

SAN FRANCISCO INTL (SFO)

SAN FRANCISCO, CALIFORNIA

AL-375 (FAA)

333

D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

TOP ALTITUDE: FL190

N

GRTFL

DEDHD

ORRCA

MOGEE

TIPRE

SYRAH

HYPEE

COSMC

TRUKN

TYDYE
3000

345° (38) *4500 11100

353° (37) *4500 11100

022° (42) *6000 14400

035° (42) *6000 13500

049° (51) *6000 15300

063° (44) *6000 13900

022° (12) *4300 6100

043° (12) *4300 5100

043° (3)

284°

014°

520

520 210K

TAKEOFF MINIMUMS

Rwys 1L/R: Standard with a minimum climb of 500′ per NM to 520.

Rwy 28L: Standard with minimum climb of 535′ per NM to 2100.

Rwy 28R: Standard with minimum climb of 560′ per NM to 2100.

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: Rwys 28L/R do not exceed 210K until leaving 520′.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L, 1R: Climb heading 014° to 520, then right turn direct TYDYE, cross TYDYE at or above 3000, then on track 043° to TRUKN. Thence. . . .

TAKEOFF RUNWAYS 28L, 28R: Climb heading 284° to 520 and at or below 210K, then right turn direct TRUKN. Thence. . . .

. . . .on (transition). Maintain FL190. Expect filed altitude 10 minutes after departure.

DEDHD TRANSITION (TRUKN2.DEDHD)
GRTFL TRANSITION (TRUKN2.GRTFL)
MOGEE TRANSITION (TRUKN2.MOGEE)
ORRCA TRANSITION (TRUKN2.ORRCA)
SYRAH TRANSITION (TRUKN2.SYRAH)
TIPRE TRANSITION (TRUKN2.TIPRE)

(WESLA5.WESLA) 21224

WESLA FIVE DEPARTURE (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2

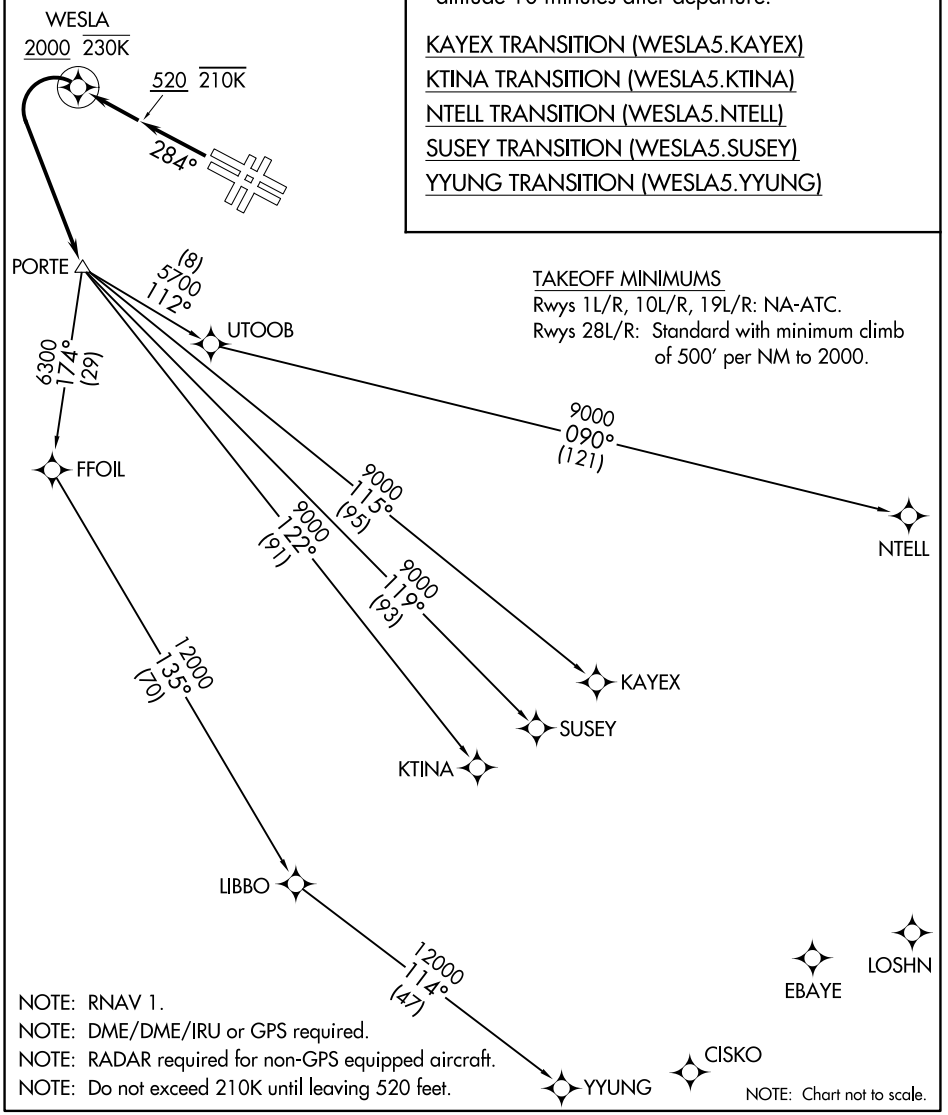
TOP ALTITUDE: AS ASSIGNED BY ATC

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28L/R: Climb on heading 284° to 520, then climb direct to cross WESLA at or above 2000 at or below 230K, then climbing left turn direct PORTE, thence . . . .

. . . . on (transition). Maintain 3000, expect filed altitude 10 minutes after departure.

KAYEX TRANSITION (WESLA5.KAYEX)
KTINA TRANSITION (WESLA5.KTINA)
NTELL TRANSITION (WESLA5.NTELL)
SUSEY TRANSITION (WESLA5.SUSEY)
YYUNG TRANSITION (WESLA5.YYUNG)



TAKEOFF MINIMUMS
Rwys 1L/R, 10L/R, 19L/R: NA-ATC.
Rwys 28L/R: Standard with minimum climb of 500′ per NM to 2000.

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: Do not exceed 210K until leaving 520 feet.

NOTE: Chart not to scale.

WESLA FIVE DEPARTURE (RNAV)
SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

(WESLA5.WESLA) 12AUG21

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-SLV	APP CRS		12R	12L
110.9	126°	Rwy Ldg	8587	8831
Chan 46		TDZE	46	44
		Apt Elev	62	62

AL-693 (FAA)

26078

ILS or LOC RWY 12R

NORMAN Y MINETA SAN JOSE INTL (SJC)

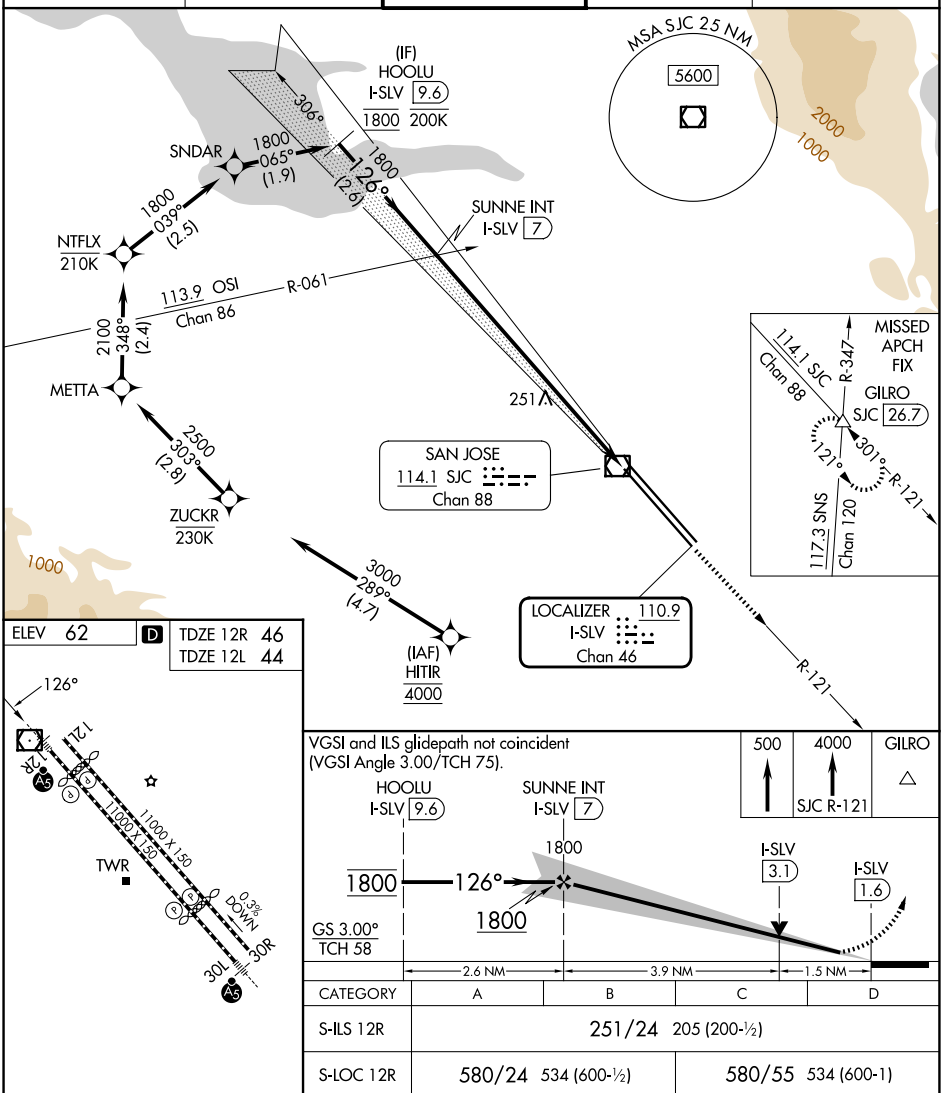
RNP APCH - GPS. From HITIR.

DME required.

MALSR Rwy 12R

MISSED APPROACH: Climb to 500 then climb to 4000 on SJC VOR/DME R-121 to GILRO INT/SJC 26.7 DME and hold.

D-ATIS	NORCAL APP CON	SAN JOSE TOWER★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ELEV 62 D

TDZE 12R 46

TDZE 12L 44

REIL Rwy 12L

HIRL Rwys 12L-30R and 12R-30L L

VGSI and ILS glidepath not coincident
(VGSI Angle 3.00/TCH 75).

CATEGORY	A	B	C	D
S-ILS 12R	251/24 205 (200-½)			
S-LOC 12R	580/24 534 (600-½)		580/55 534 (600-1)	
SIDESTEP 12L	600-1 556 (600-1)		600-1½ 556 (600-1½)	600-2 556 (600-2)

SAN JOSE, CALIFORNIA

AL-693 (FAA)

26078

ILS or LOC RWY 30L

NORMAN Y MINETA SAN JOSE INTL (SJC)

LOC/DME I-SJC	APP CRS		30L	30R
110.9	306°	Rwy Ldg	7614	7597
Chan 46		TDZE	57	55
		Apt Elev	62	62

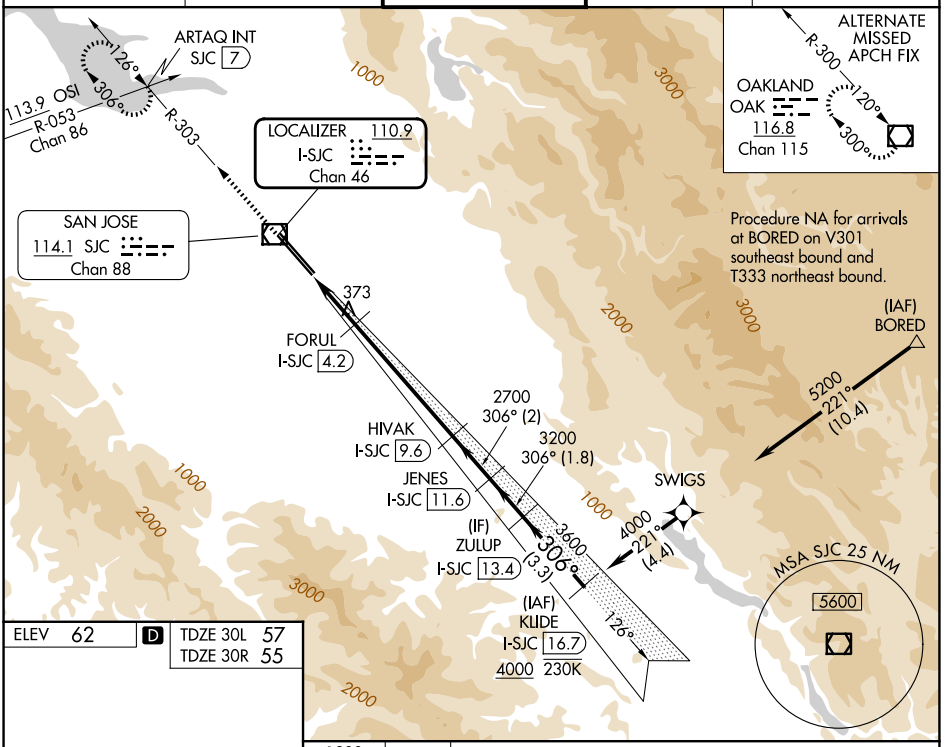
RNAV 1-GPS or RADAR required for procedure entry. DME required. From BORED: RNAV 1-GPS required.

T A # RVR 1800 authorized with use of FD or AP or HUD to DA.

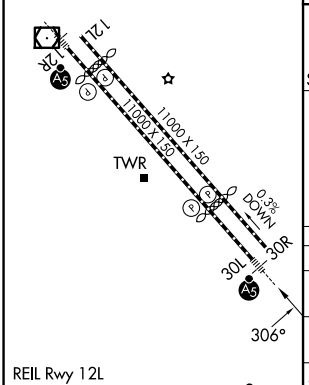
MALSR Rwy 30L

MISSED APPROACH: Climb to 1900 on SJC VOR/DME R-303 to ARTAQ INT/SJC 7 DME and hold.

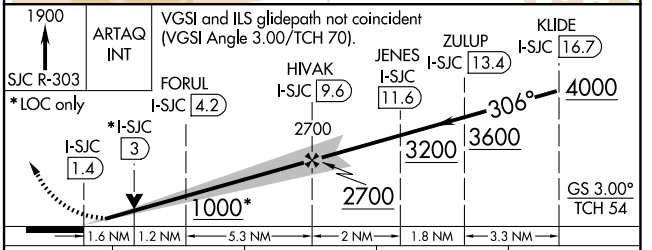
D-ATIS	NORCAL APP CON	SAN JOSE TOWER★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95



ELEV 62 D TDZE 30L 57 TDZE 30R 55



REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L



CATEGORY	A	B	C	D
S-ILS 30L #	257/24 200 (200-½)			
S-LOC 30L	640/24 583 (600-½)		640-1¼ 583 (600-1¼)	
SIDESTEP 30R	640-1 585 (600-1)		640-1¾ 585 (600-1¾)	640-2 585 (600-2)

SAN JOSE, CALIFORNIA
Amdt 26 10SEP20

37°22'N-121°56'W

NORMAN Y MINETA SAN JOSE INTL (SJC)

ILS or LOC RWY 30L

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-SJC	APP CRS	Rwy Ldg 7614
110.9	306°	TDZE 57
Chan 46		Apt Elev 62

ILS RWY 30L (SA CAT I & II)

NORMAN Y MINETA SAN JOSE INTL (SJC)

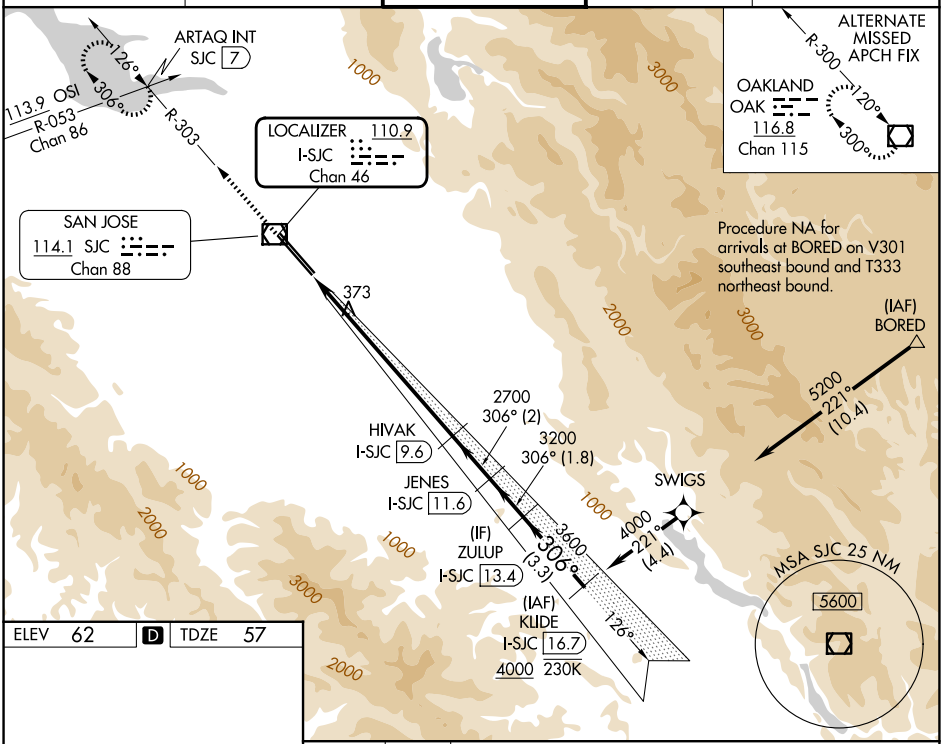
RNAV 1-GPS or RADAR required for procedure entry. DME required.
From BORED: RNAV 1-GPS required.

SA CAT I: Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.
SA CAT II: Reduced lighting: requires specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown. SA CAT I /II: Procedure NA when tower closed.

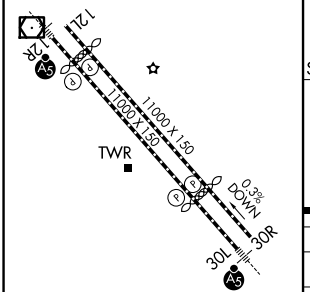
MALSR

MISSED APPROACH: Climb to 1900 on SJC VOR/DME R-303 to ARTAQ INT/SJC 7 DME and hold.

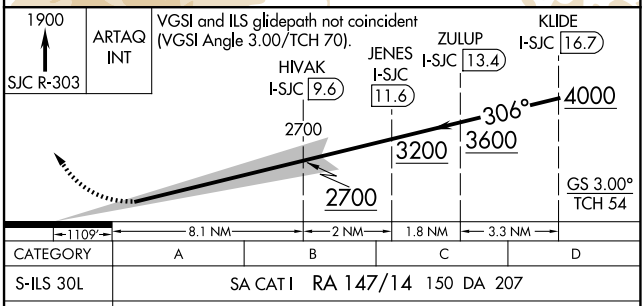
D-ATIS	NORCAL APP CON	SAN JOSE TOWER★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95



ELEV 62	D	TDZE 57



REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L



CATEGORY	A	B	C	D
S-ILS 30L	SA CAT I RA 147/14 150 DA 207			
S-ILS 30L	SA CAT II RA 97/12 100 DA 157			

SA CATEGORY I & II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN JOSE, CALIFORNIA | AL-693 (FAA) | 26078

APP CRS	Rwy Ldg	8831
126°	TDZE	44
	Apt Elev	62

RNAV (RNP) Z RWY 12L

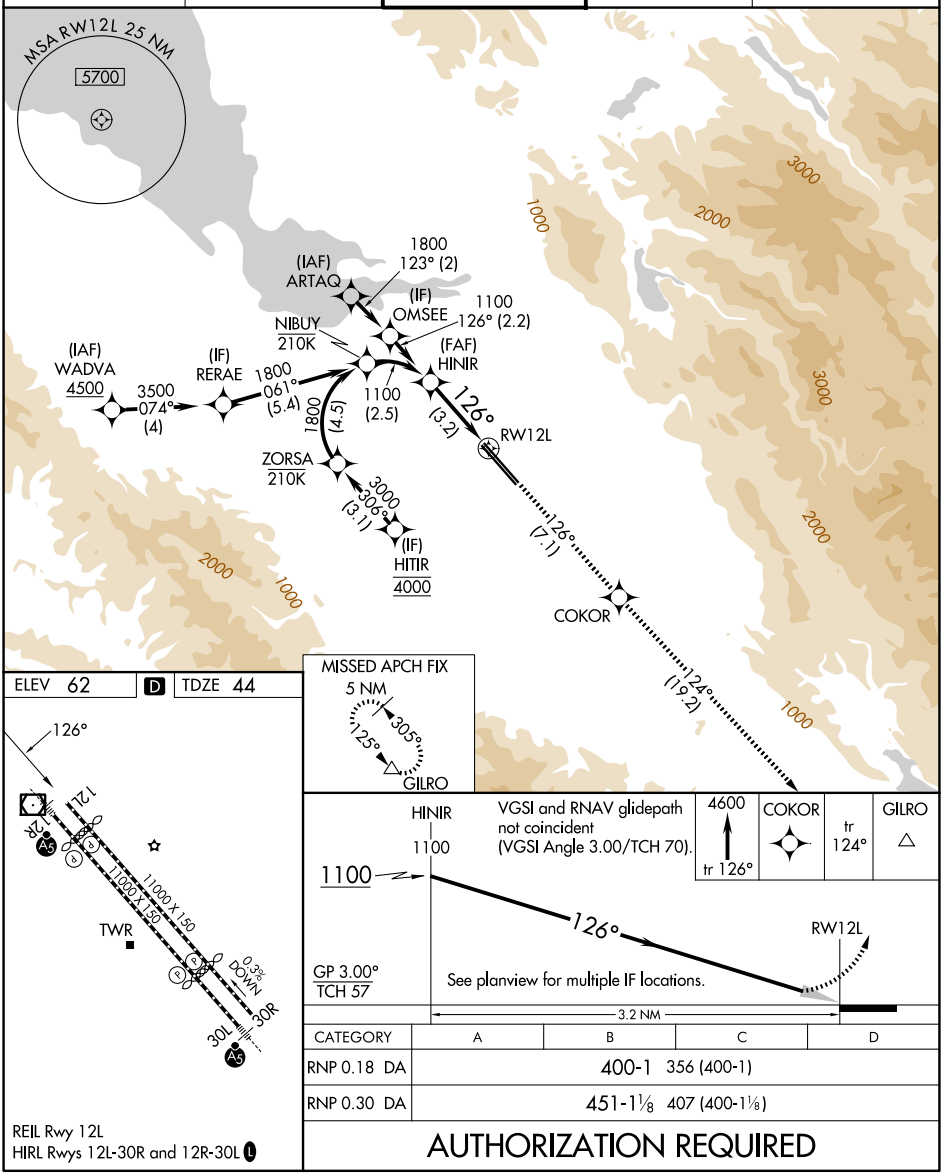
NORMAN Y MINETA SAN JOSE INTL (SJC)

RNP AR APCH-GPS.

For uncompensated Baro-VNAV systems, procedure NA below 0°C or above 54°C.

MISSED APPROACH: Climb to 4600 on track 126° to COKOR and track 124° to GILRO and hold.

D-ATIS	NORCAL APP CON	SAN JOSE TOWER★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95



CATEGORY	A	B	C	D
RNP 0.18 DA	400-1 356 (400-1)			
RNP 0.30 DA	451-1⅛ 407 (400-1⅛)			

AUTHORIZATION REQUIRED

REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L

SAN JOSE, CALIFORNIA
Amdt 2B 24MAR22

37°22'N-121°56'W

NORMAN Y MINETA SAN JOSE INTL (SJC)

RNAV (RNP) Z RWY 12L

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	8587
126°	TDZE	46
	Apt Elev	62

RNAV (RNP) Z RWY 12R

NORMAN Y MINETA SAN JOSE INTL (SJC)

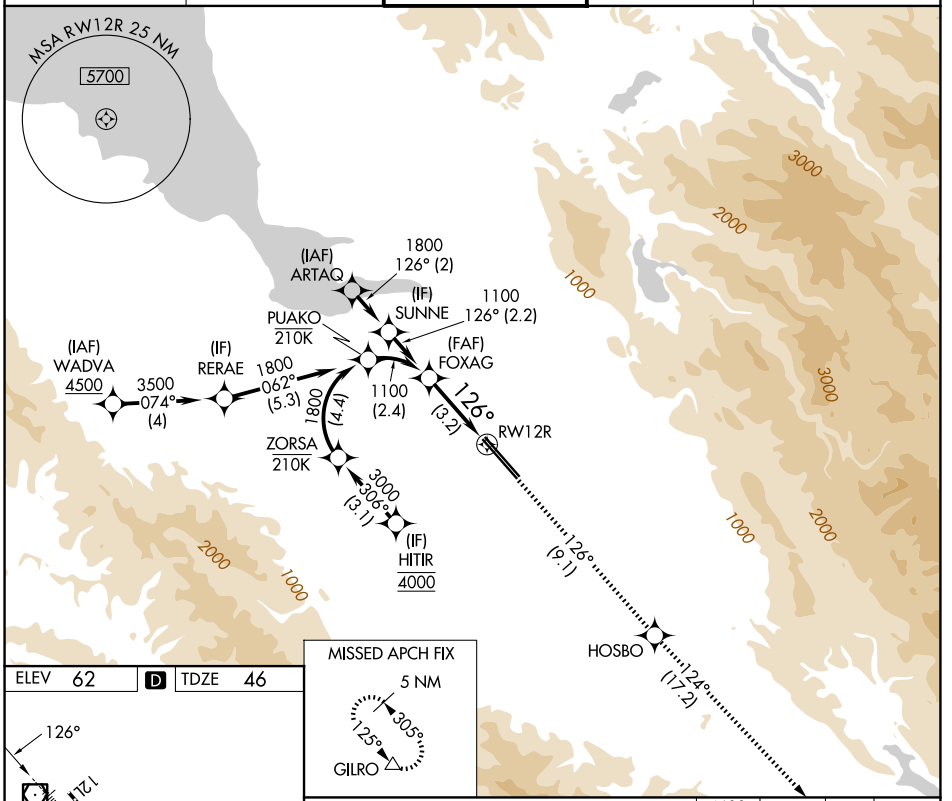
RNP AR APCH-GPS.

T For uncompensated Baro-VNAV systems, procedure NA below 0°C or above 54°C. For inop ALS, increase RNP 0.15 all Cats visibility to RVR 5500.

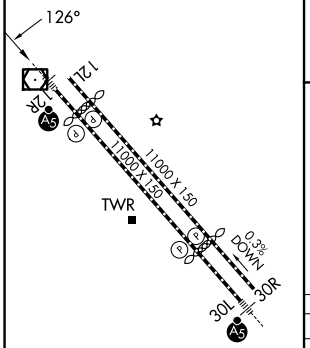
MALSR

MISSED APPROACH: Climb to 4600 on track 126° to HOSBO and track 124° to GILRO and hold.

D-ATIS	NORCAL APP CON	SAN JOSE TOWER★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95

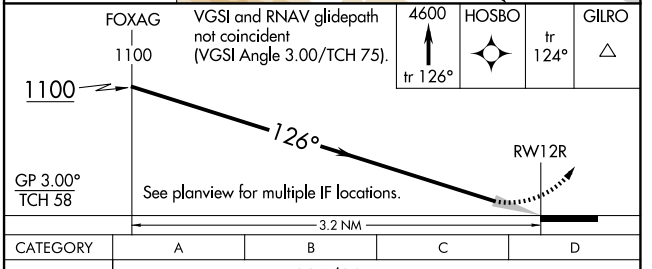


ELEV 62	D	TDZE 46



REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L

MISSED APCH FIX



CATEGORY	A	B	C	D
RNP 0.15 DA	394/30 348 (400-⅝)			
RNP 0.30 DA	486/40 440 (500-¾)			

AUTHORIZATION REQUIRED

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

SAN JOSE, CALIFORNIA | AL-693 (FAA) | 26078

APP CRS		
306°	Rwy Ldg	7614
	TDZE	57
	Apt Elev	62

RNAV (RNP) Z RWY 30L

NORMAN Y MINETA SAN JOSE INTL (SJC)

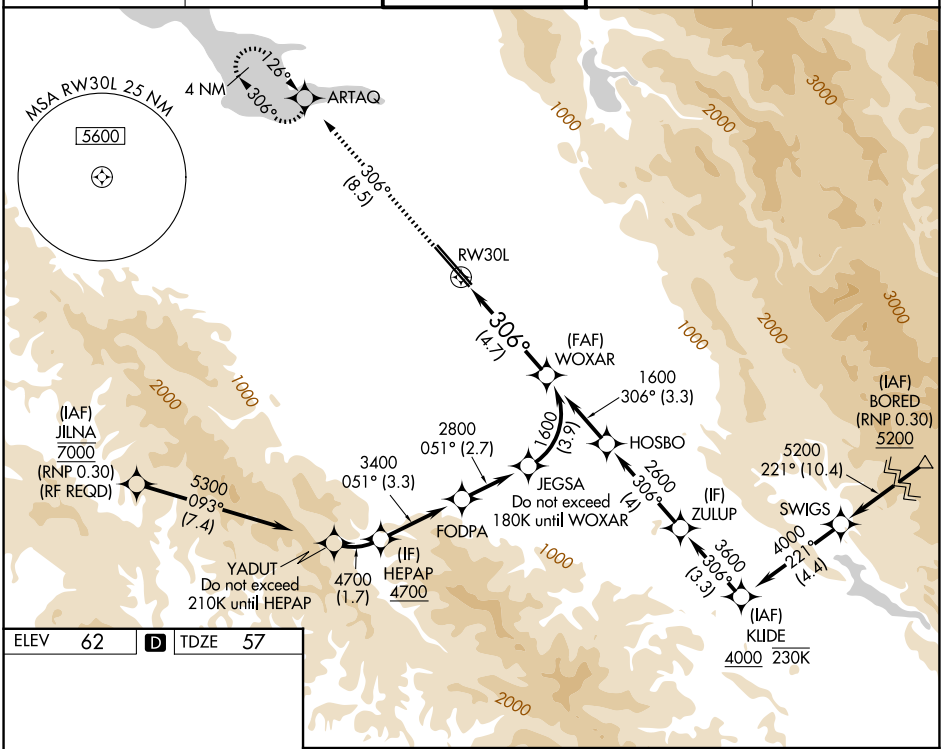
RNP AR APCH.

T For uncompensated Baro-VNAV systems, procedure NA below 1°C or above 54°C . For inop ALS, increase RNP 0.10 all Cats visibility to RVR 5500 and increase RNP 0.30 all Cats visibility to 1⅜ SM.

MALSR

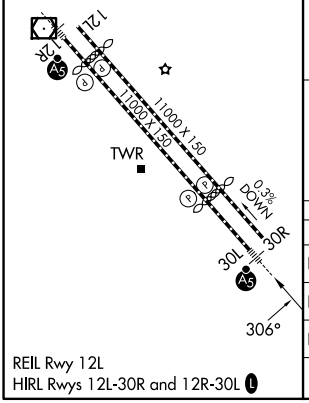
MISSED APPROACH: Climb to 2000 on track 306° to ARTAQ and hold.

D-ATIS	NORCAL APP CON	SAN JOSE TOWER ★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95

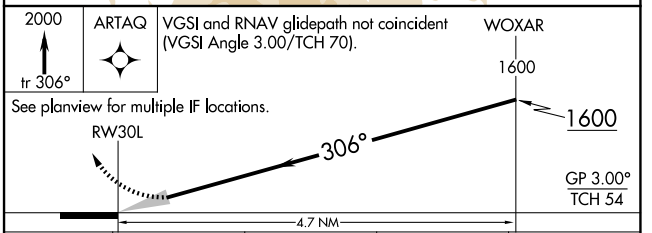


D-ATIS	NORCAL APP CON	SAN JOSE TOWER ★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95

ELEV 62 | D | TDZE 57



REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L



CATEGORY	A	B	C	D
RNP 0.10 DA		430/35	373 (400-⅝)	
RNP 0.20 DA		464/40	407 (500-¾)	
RNP 0.30 DA		541/50	484 (500-1)	

AUTHORIZATION REQUIRED

SAN JOSE, CALIFORNIA
Amdt 4 02DEC21

37°22'N-121°56'W

NORMAN Y MINETA SAN JOSE INTL (SJC)

RNAV (RNP) Z RWY 30L

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	7597
306°	TDZE	55
	Apt Elev	62

RNAV (RNP) Z RWY 30R

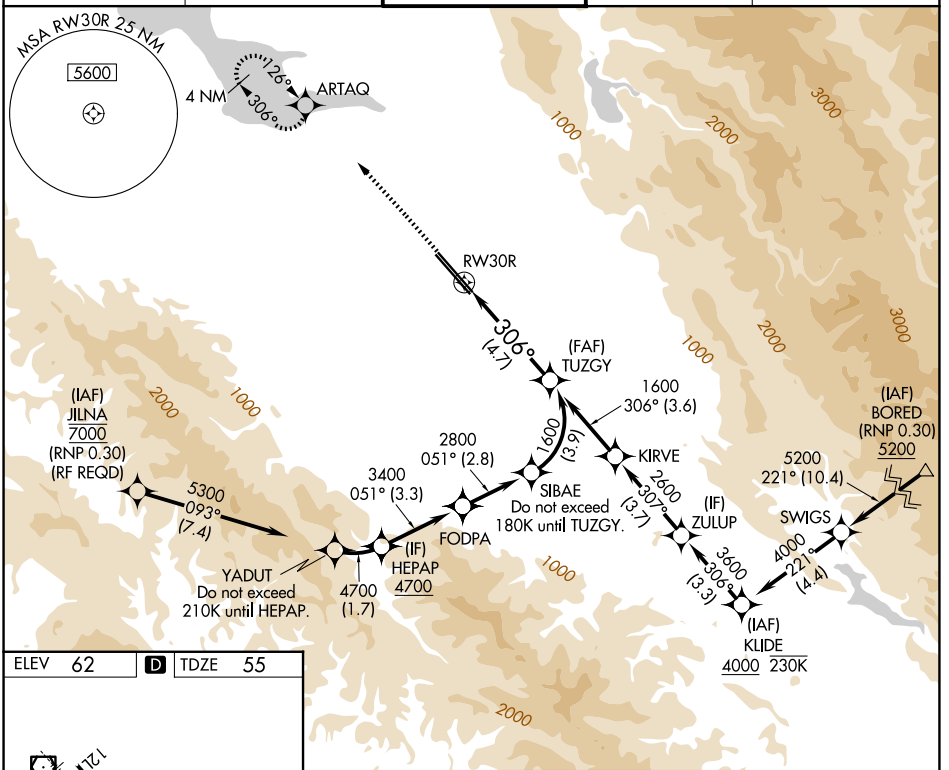
NORMAN Y MINETA SAN JOSE INTL (SJC)

RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below 1°C or above 54°C.

MISSED APPROACH: Climb to 600 then climb to 2000 direct ARTAQ and hold.

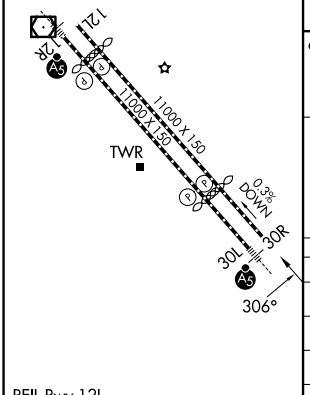
D-ATIS	NORCAL APP CON	SAN JOSE TOWER★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

ELEV 62 D TDZE 55

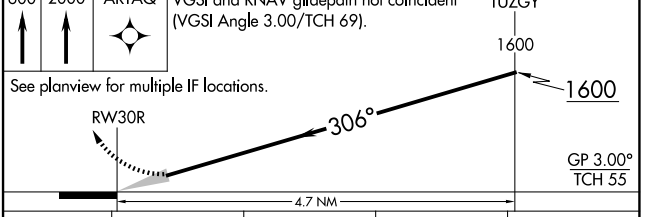


REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L

600 2000 ARTAQ

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 69).

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.11 DA	377-1 322 (400-1)			
RNP 0.20 DA	472-1⅛ 417 (500-1⅛)			
RNP 0.30 DA	538-1⅜ 483 (500-1⅜)			

AUTHORIZATION REQUIRED

SAN JOSE, CALIFORNIA AL-693 (FAA) 26078

WAAS	APP CRS	Rwy Ldg	8831
CH 69501	126°	TDZE	44
W12B		Apt Elev	62

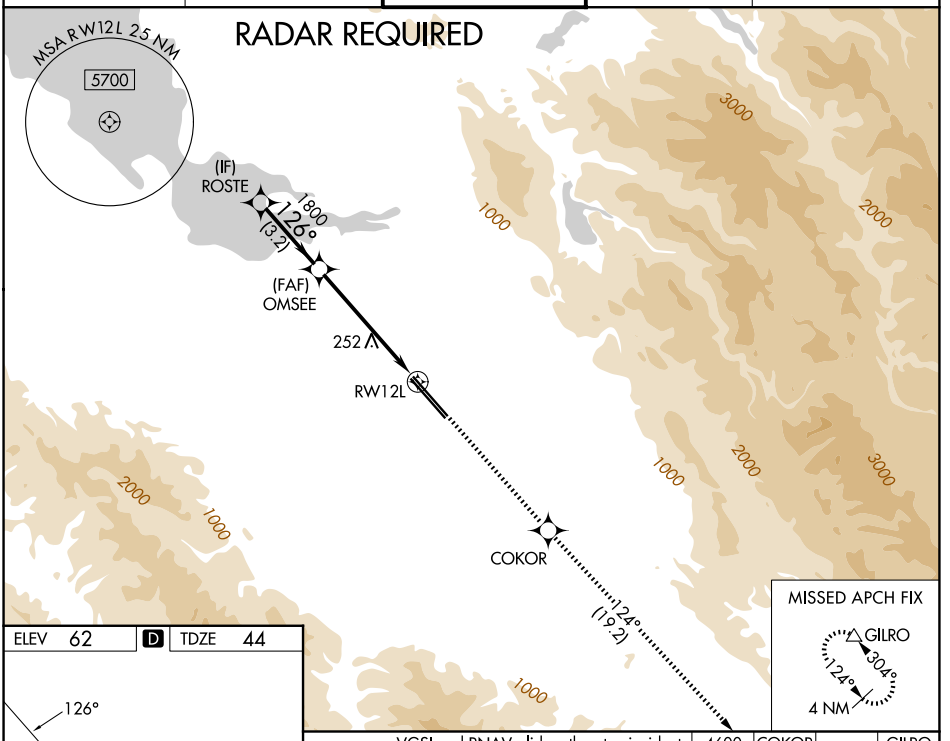
RNAV (GPS) Y RWY 12L

NORMAN Y MINETA SAN JOSE INTL (SJC)

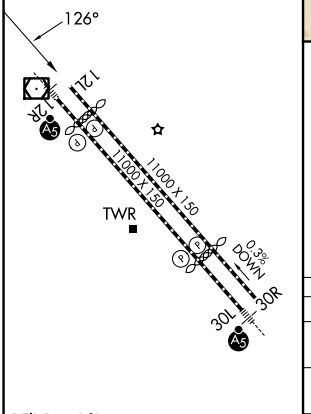
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4600 direct COKOR and on track 124° to GILRO and hold.

D-ATIS	NORCAL APP CON	SAN JOSE TOWER★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95

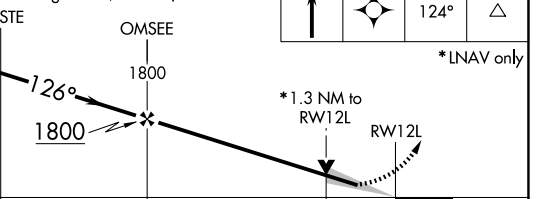


ELEV 62 D TDZ 44



REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 70).



*LNAV only

CATEGORY	A	B	C	D
LPV DA	294-¾ 250 (300-¾)			
LNAV/VNAV DA	341-1 297 (300-1)			
LNAV MDA	520-1 476 (500-1)		520-1⅜ 476 (500-1⅜)	

SAN JOSE, CALIFORNIA
Amdt 3A 21JUL16

NORMAN Y MINETA SAN JOSE INTL (SJC)
37°22'N-121°56'W
RNAV (GPS) Y RWY 12L

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) Y RWY 12R

NORMAN Y MINETA SAN JOSE INTL (SJC)

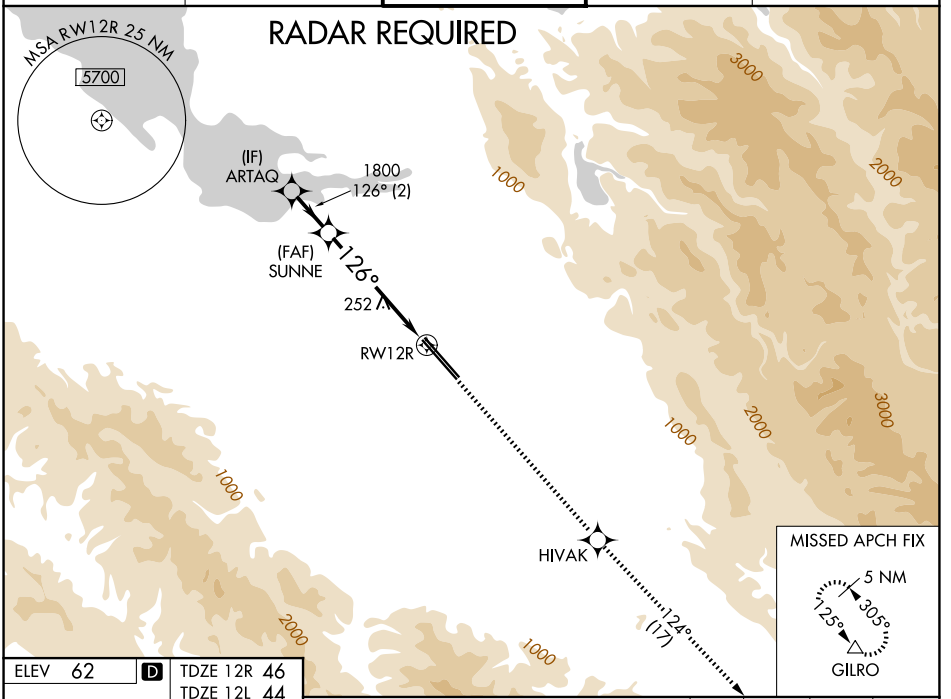
WAAS	APP CRS		12R	12L
CH 90106	126°	Rwy Ldg	8587	8831
W12A		TDZE	46	44
		Apt Elev	62	62

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. For inoperative MALSR, increase LNAV/VNAV all Cats visibility to 1 mile and LNAV Cats C/D visibility to 1⅜ mile.

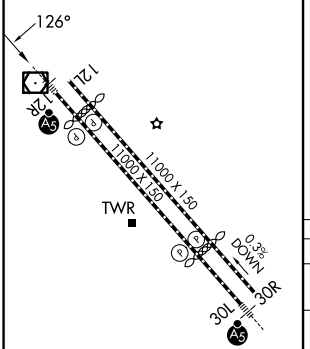
MALSR Rwy 12R

MISSED APPROACH: Climb to 4600 direct HIVAK and on track 124° to GILRO and hold.

D-ATIS	NORCAL APP CON	SAN JOSE TOWER★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95



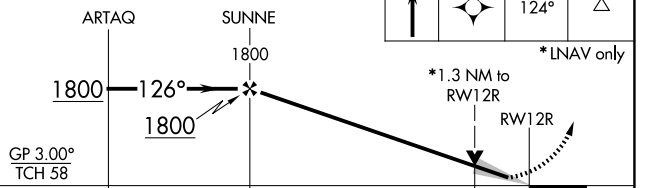
ELEV 62 D TDZE 12R 46 TDZE 12L 44



REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).

4600	HIVAK	tr 124°	GILRO



*LNAV only

CATEGORY	A	B	C	D
LPV DA	246-½ 200 (200-½)			
LNAV/VNAV DA	371-⅝ 325 (400-⅝)	371-1 325 (400-1)		
LNAV MDA	520-½ 474 (500-½)		520-1 474 (500-1)	
SIDESTEP 12L	520-1 476 (500-1)		520-1½ 476 (500-1½)	520-2 476 (500-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN JOSE, CALIFORNIA

AL-693 (FAA)

26078

RNAV (GPS) Y RWY 30L

NORMAN Y MINETA SAN JOSE INTL (SJC)

WAAS	APP CRS		30L	30R
CH 97306	306°	Rwy Ldg	7614	7597
W30A		TDZE	57	55
		Apt Elev	62	62

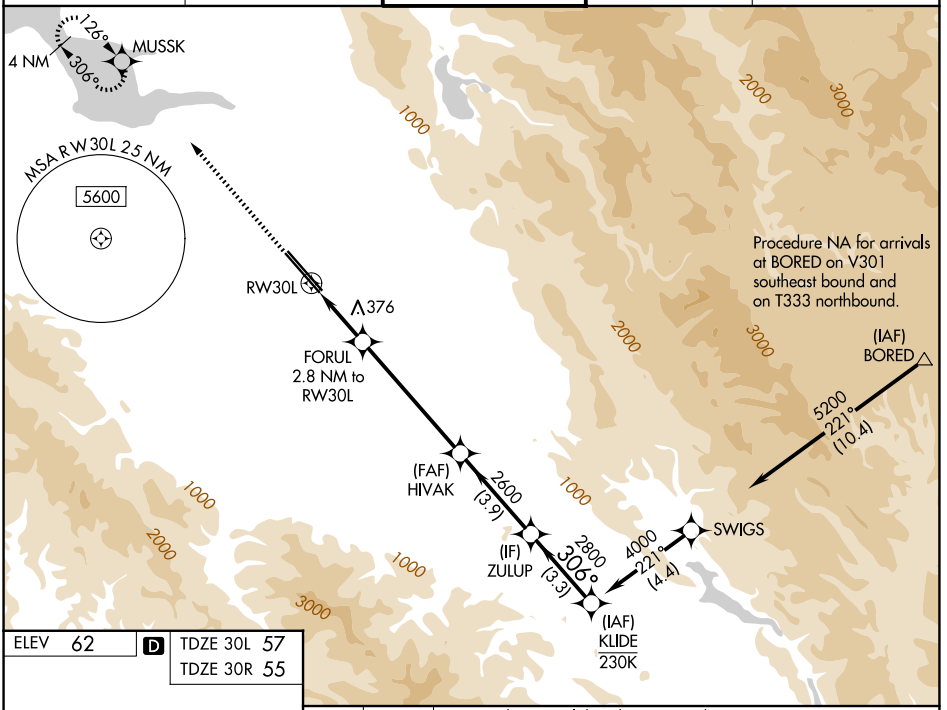
RNP APCH-GPS.

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to 1⅜ SM.
* RVR 1800 authorized with use of FD or AP or HUD to DA.

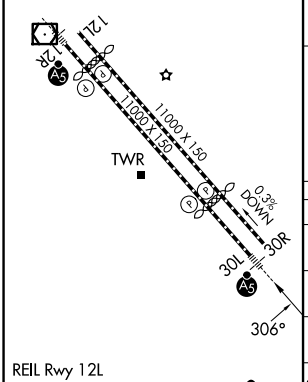
MALSR Rwy 30L

MISSED APPROACH: Climb to 2300 direct MUSSK and hold.

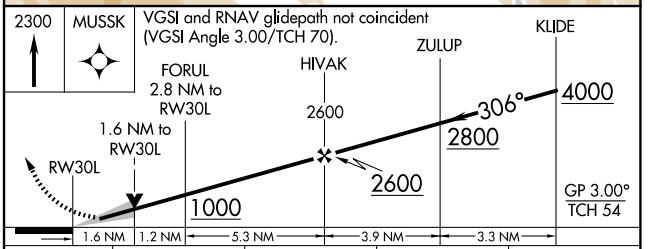
D-ATIS	NORCAL APP CON	SAN JOSE TOWER*	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95



ELEV 62	D	TDZE 30L 57
		TDZE 30R 55



REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L



CATEGORY	A	B	C	D
LPV DA*	257/24 200 (200-½)			
LNAV/VNAV DA	540/50 483 (500-1)			
LNAV MDA	640/24 583 (600-½)		640-1¼ 583 (600-1¼)	
SIDESTEP 30R	640-1 585 (600-1)			

SAN JOSE, CALIFORNIA
Amdt 4A 23FEB23

37°22'N-121°56'W

NORMAN Y MINETA SAN JOSE INTL (SJC)

RNAV (GPS) Y RWY 30L

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 72901 W30B	APP CRS 306°	Rwy Ldg 7597 TDZE 55 Apt Elev 62

RNAV (GPS) Y RWY 30R

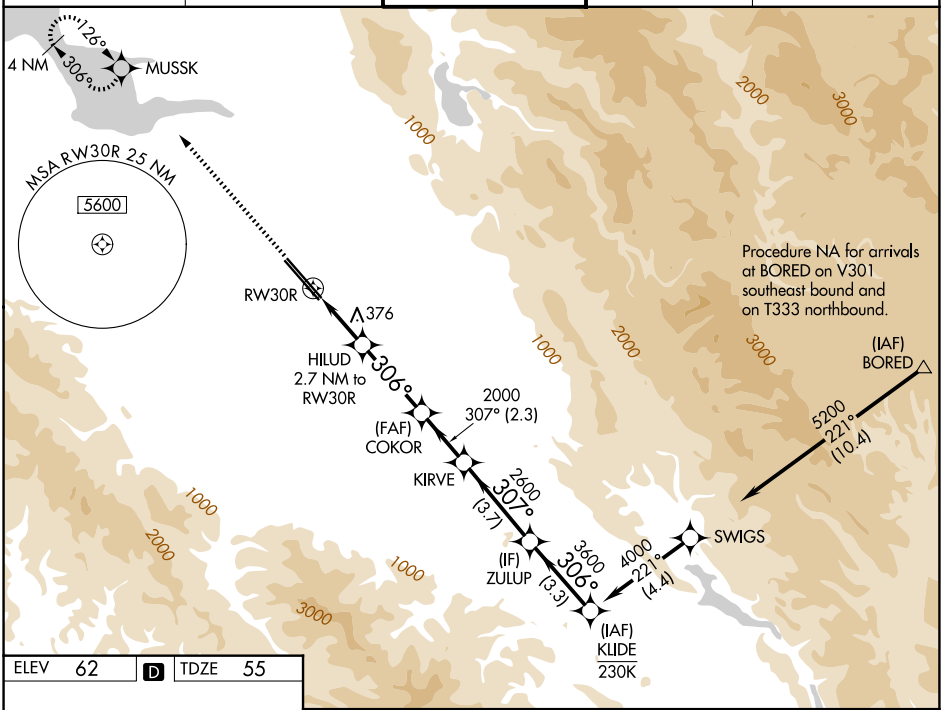
NORMAN Y MINETA SAN JOSE INTL (SJC)

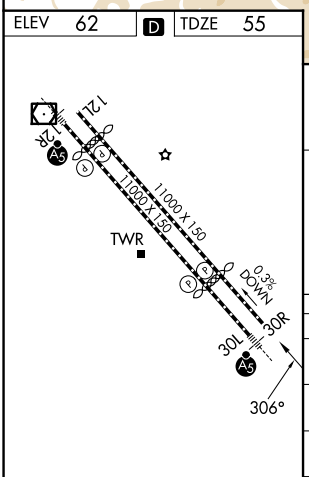
RNP APCH-GPS.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C or above 54°C.

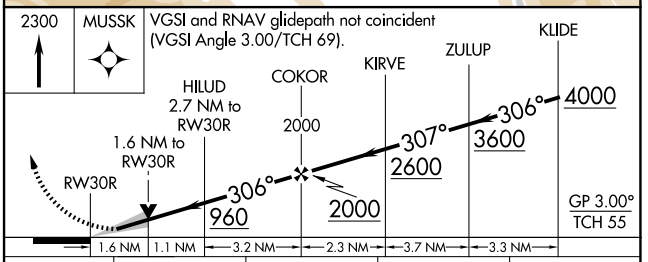
MISSED APPROACH: Climb to 2300 direct MUSSK and hold.

D-ATIS	NORCAL APP CON	SAN JOSE TOWER★	GND CON	UNICOM
126.95	120.1 290.25	124.0 (CTAF) L 257.6	121.7	122.95





REIL Rwy 12L
HIRL Rwys 12L-30R and 12R-30L L

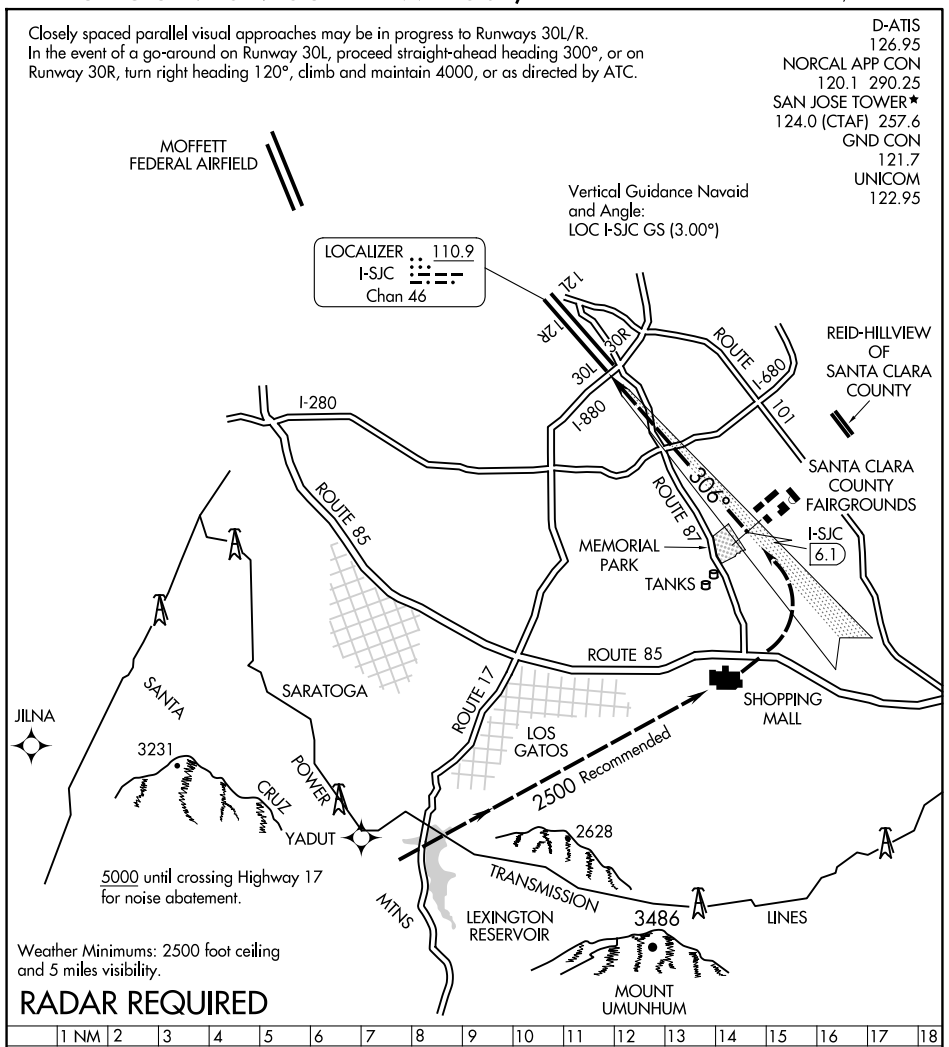


CATEGORY	A	B	C	D
LPV DA	255-¾ 200 (200-¾)			
LNAV/VNAV DA	541-1⅜ 486 (500-1⅜)			
LNAV MDA	640-1 585 (600-1)		640-1¾ 585 (600-1¾)	
CIRCLING	640-1 578 (600-1)	700-1 638 (700-1)	700-1¾ 638 (700-1¾)	700-2 638 (700-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

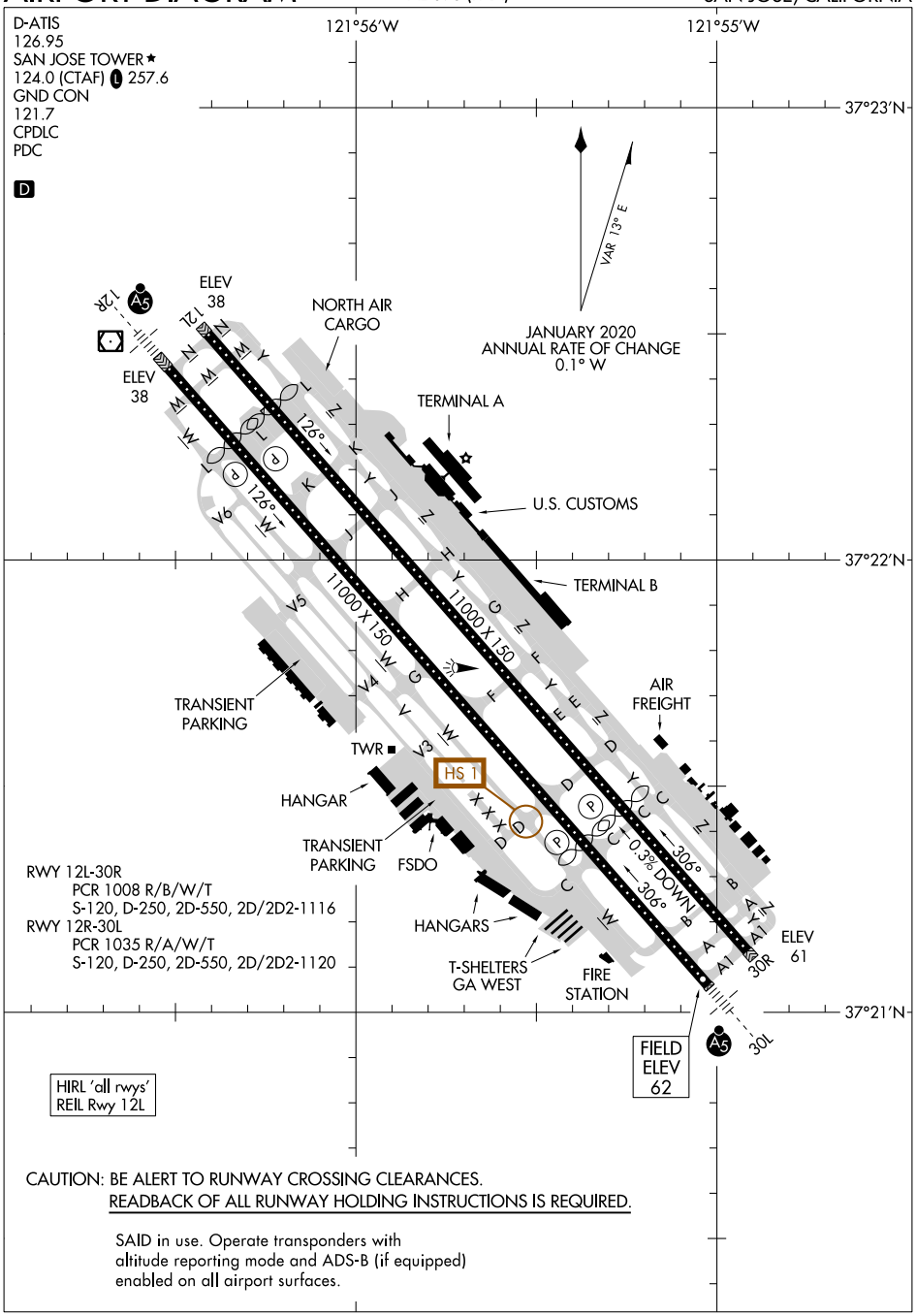
FAIRGROUNDS VISUAL RWY 30L/R

SW-2, 09 JUL 2026 to 03 SEP 2026



FAIRGROUNDS VISUAL APPROACH RUNWAY 30L/R

FROM WEST-NORTHWEST: From over Lexington Reservoir northeast to shopping mall at Hi-ways 85/87 then to a turn onto final southeast fairgrounds and adjoining memorial park.

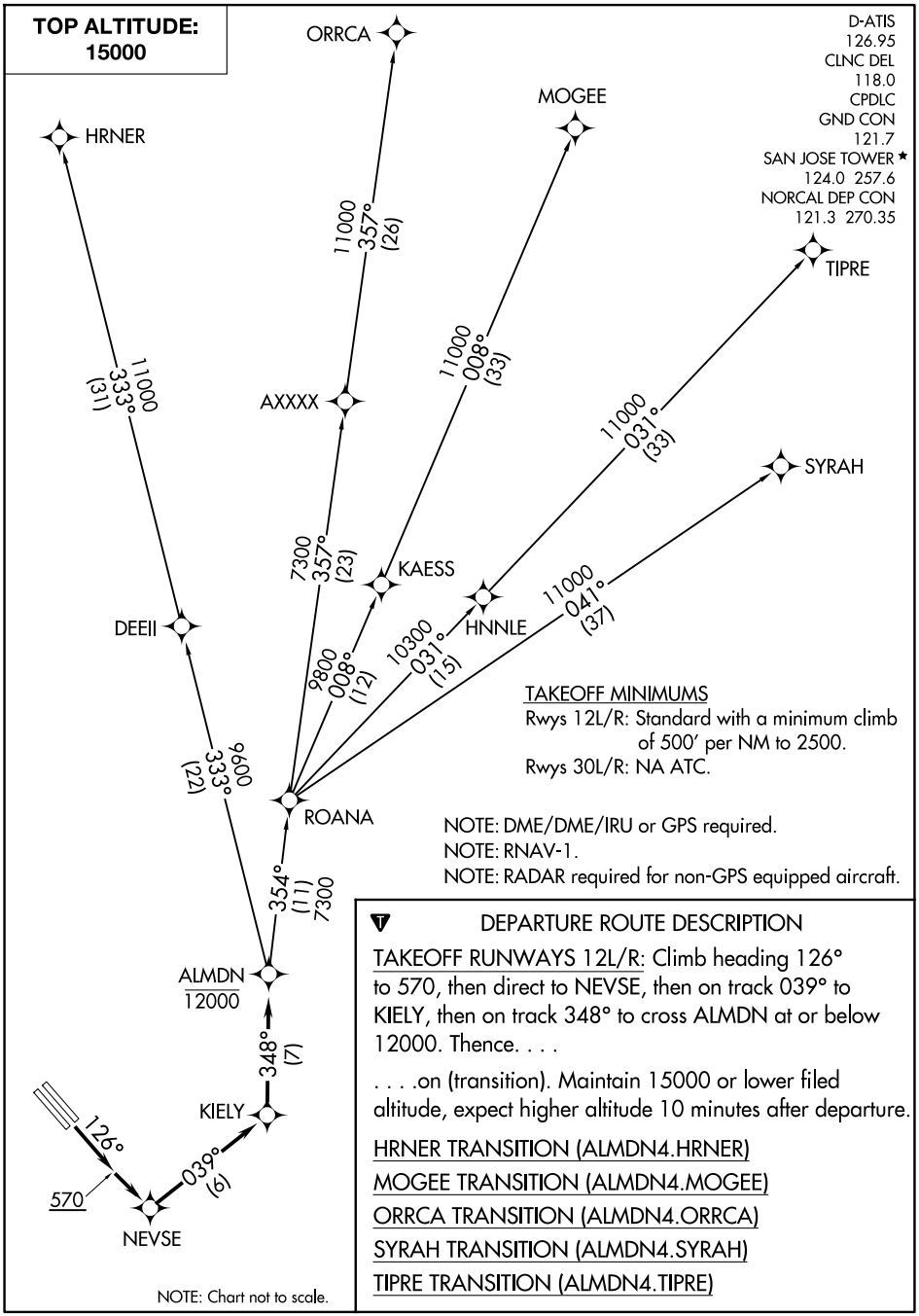


SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

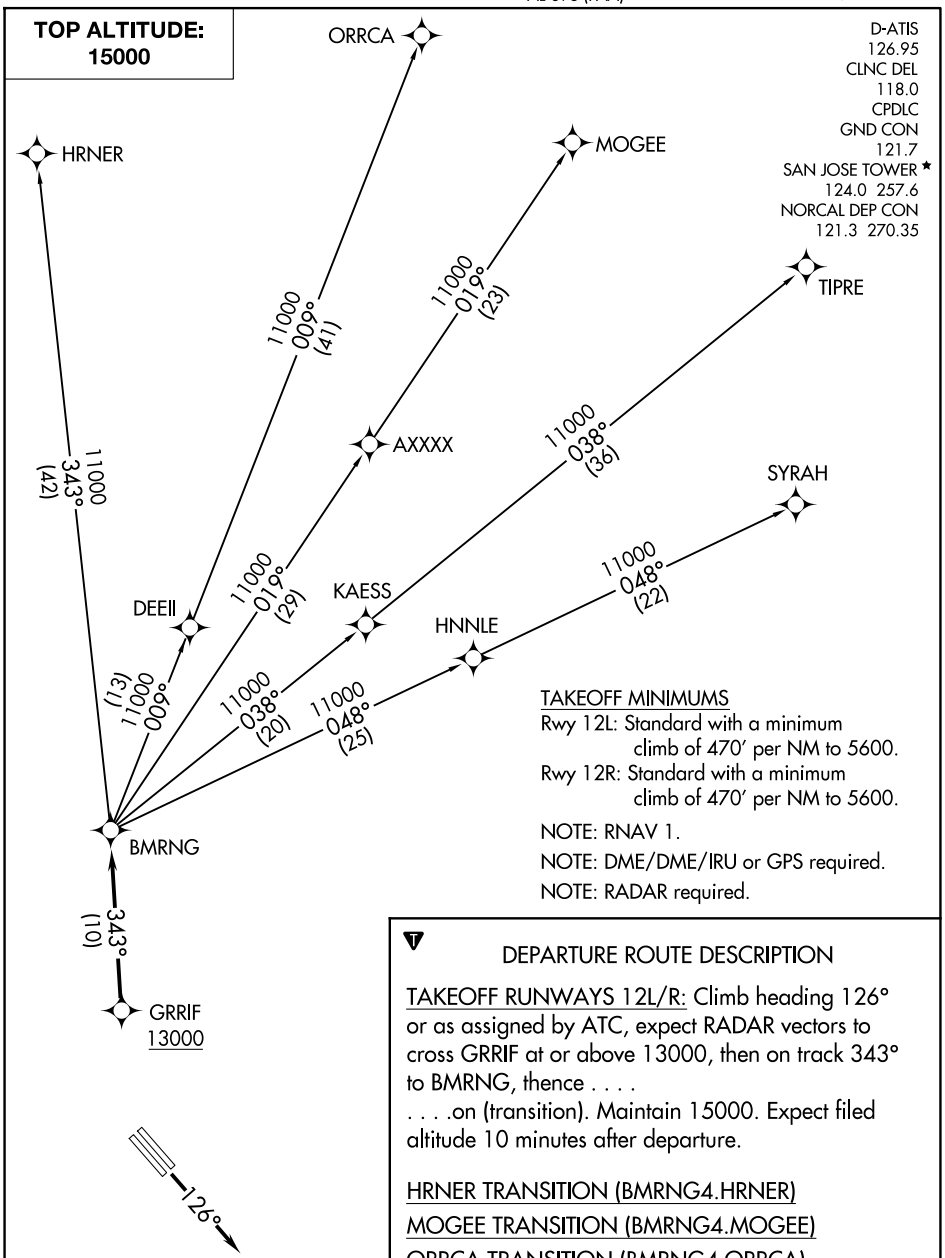
(ALMDN4.ALMDN) 18032

ALMDN FOUR DEPARTURE (RNAV)

NORMAN Y MINETA SAN JOSE INTL (SJC)
AL-693 (FAA)
SAN JOSE, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026



TAKEOFF MINIMUMS

Rwy 12L: Standard with a minimum climb of 470' per NM to 5600.

Rwy 12R: Standard with a minimum climb of 470' per NM to 5600.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/R: Climb heading 126° or as assigned by ATC, expect RADAR vectors to cross GRRIF at or above 13000, then on track 343° to BMRNG, thence . . . .

. . . .on (transition). Maintain 15000. Expect filed altitude 10 minutes after departure.

HRNER TRANSITION (BMRNG4.HRNER)

MOGEE TRANSITION (BMRNG4.MOGEE)

ORRCA TRANSITION (BMRNG4.ORRCA)

SYRAH TRANSITION (BMRNG4.SYRAH)

TIPRE TRANSITION (BMRNG4.TIPRE)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(LOUPE1.BMRNG) 24137

LOUPE ONE DEPARTURE (RNAV)

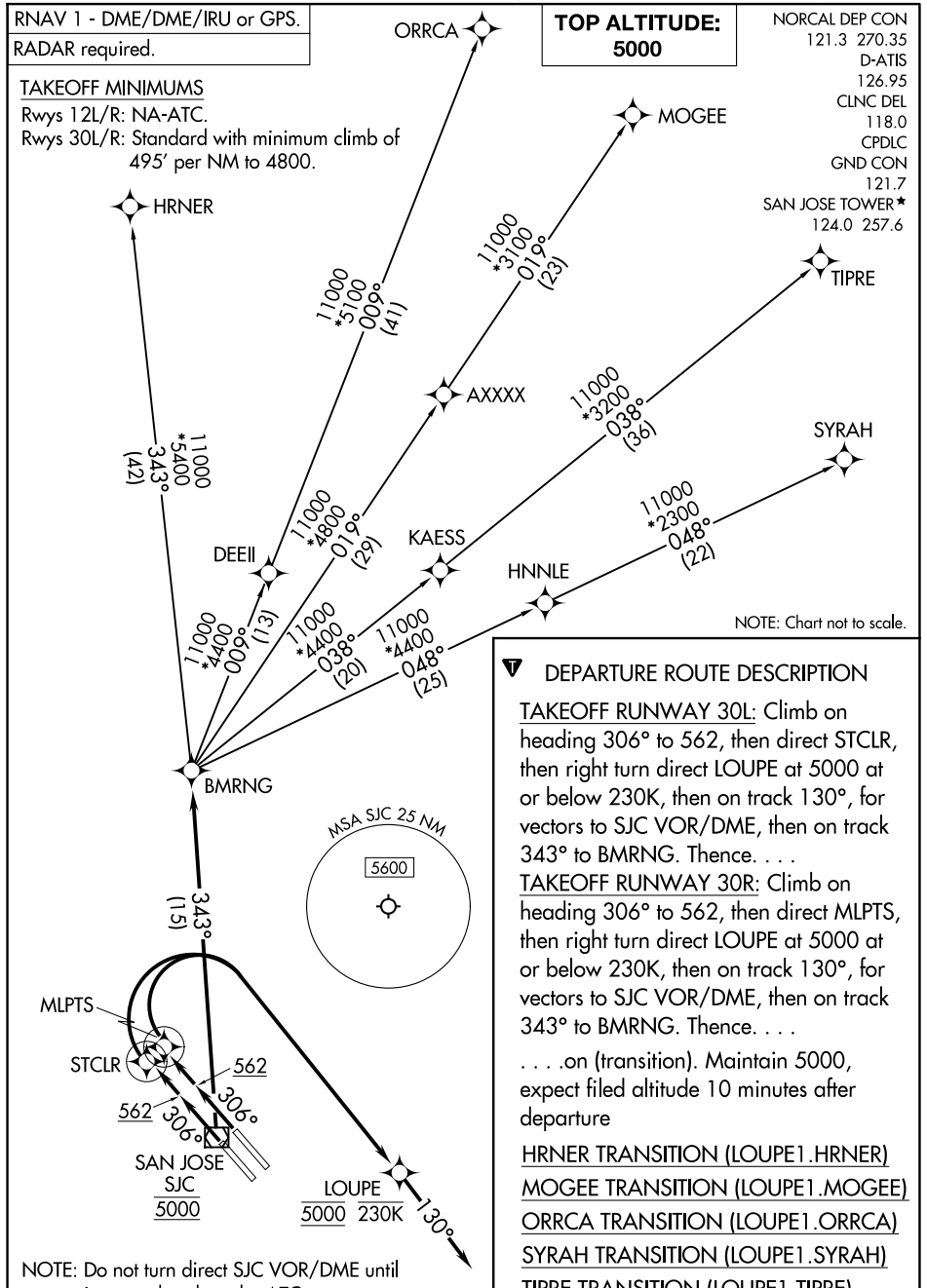
NORMAN Y MINETA SAN JOSE INTL (SJC)
AL-693 (FAA) SAN JOSE, CALIFORNIA

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.

TOP ALTITUDE: 5000

NORCAL DEP CON
121.3 270.35
D-ATIS
126.95
CLNC DEL
118.0
CPDLC
GND CON
121.7
SAN JOSE TOWER★
124.0 257.6

TAKEOFF MINIMUMS
Rwys 12L/R: NA-ATC.
Rwys 30L/R: Standard with minimum climb of 495′ per NM to 4800.



NOTE: Do not turn direct SJC VOR/DME until instructed to do so by ATC.

DEPARTURE ROUTE DESCRIPTION

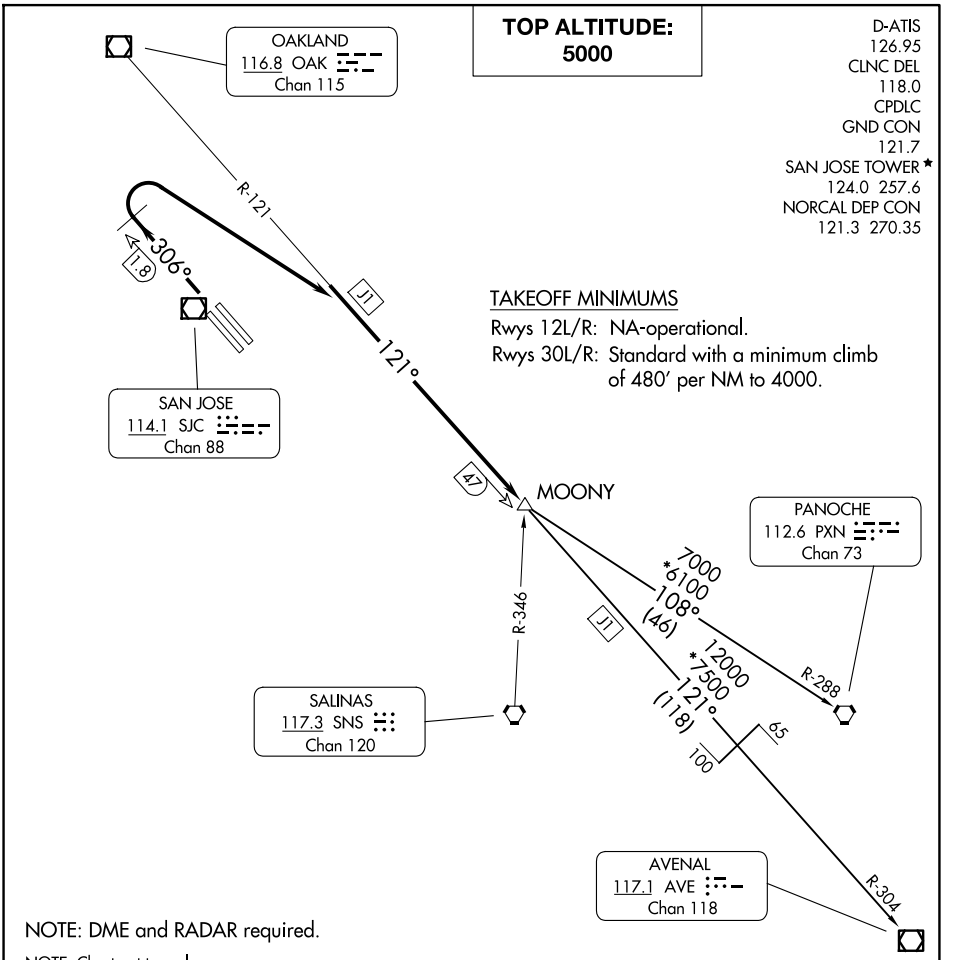
TAKEOFF RUNWAY 30L: Climb on heading 306° to 562, then direct STCLR, then right turn direct LOUPE at 5000 at or below 230K, then on track 130°, for vectors to SJC VOR/DME, then on track 343° to BMRNG. Thence. . . .

TAKEOFF RUNWAY 30R: Climb on heading 306° to 562, then direct MLPTS, then right turn direct LOUPE at 5000 at or below 230K, then on track 130°, for vectors to SJC VOR/DME, then on track 343° to BMRNG. Thence. . . .

. . . .on (transition). Maintain 5000, expect filed altitude 10 minutes after departure

HRNER TRANSITION (LOUPE1.HRNER)
MOGEE TRANSITION (LOUPE1.MOGEE)
ORRCA TRANSITION (LOUPE1.ORRCA)
SYRAH TRANSITION (LOUPE1.SYRAH)
TIPRE TRANSITION (LOUPE1.TIPRE)

SW-2, 09 JUL 2026 to 03 SEP 2026



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 30L/R: Climb heading 306° to SJC 1.8 DME NW of SJC VOR/DME, then turn right to intercept and proceed on OAK R-121 to MOONY INT, thence. . . .

. . . .on (transition) or (assigned route). Maintain 5000, expect clearance to filed altitude ten minutes after departure.

AVENAL TRANSITION (SJC3.AVE): From over MOONY INT on OAK R-121 and AVE R-304 to AVE VOR/DME.

PANOCHE TRANSITION (SJC3.PXN): From over MOONY INT on PXN R-288 to PXN VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(SPTNS1.TECKY) 22027

SPTNS ONE DEPARTURE (RNAV)

NORMAN Y MINETA SAN JOSE INTL (SJC)

AL-693 (FAA)

SAN JOSE, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 30L: Climb on heading 306° to 570, then direct to cross STCLR at or above 900 at or below 230K, then right turn direct to cross SPTNS at 5000, then on track 125° to cross TECKY at or above 13000, thence. . . .

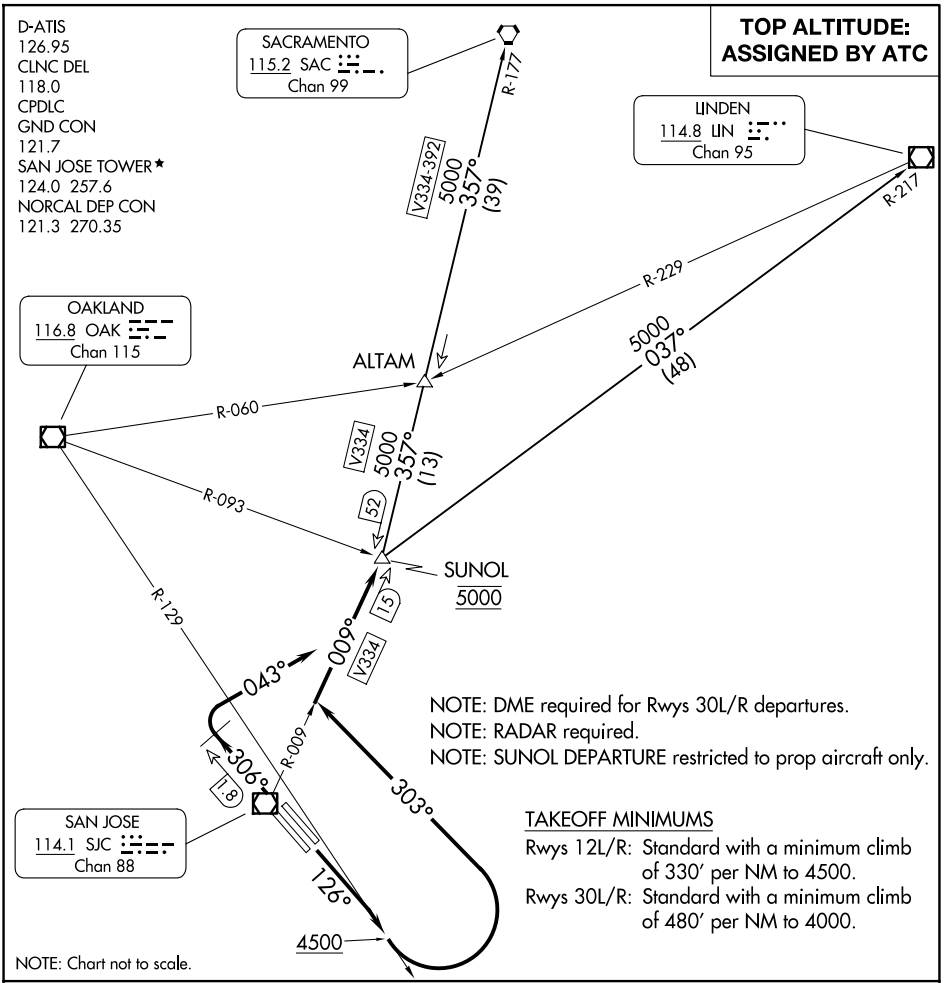
TAKEOFF RUNWAY 30R: Climb on heading 306° to 570, then direct to cross MLPTS at or above 900 at or below 230K, then right turn direct to cross SPTNS at 5000, then on track 125° to cross TECKY at or above 13000, thence. . . .

. . . .on (transition), maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

JFREE TRANSITION (SPTNS1.JFREE)

VLREE TRANSITION (SPTNS1.VLREE)

SW-2, 09 JUL 2026 to 03 SEP 2026



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/R: Climb heading 126° to intercept and proceed on OAK R-129 to 4500, then turn left heading 303° for RADAR vectors to intercept and proceed on SJC R-009 to cross SUNOL at 5000, thence . . . .

TAKEOFF RUNWAYS 30L/R: Climb heading 306° at SJC 1.8 DME northwest of SJC VOR/DME, turn right heading 043° to intercept and proceed on SJC R-009 to cross SUNOL at 5000, thence . . . .

. . . . then on (transition) or (assigned route). Maintain ATC assigned altitude.

LINDEN TRANSITION (SUNOL1.LIN): From over SUNOL on LIN R-217 to LIN VOR/DME.

SACRAMENTO TRANSITION (SUNOL1.SAC): From over SUNOL on SAC R-177 to SAC VORTAC.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(TECKY4.TECKY) 22027

TECKY FOUR DEPARTURE (RNAV)

NORMAN Y MINETA SAN JOSE INTL (SJC)
AL-693 (FAA)
SAN JOSE, CALIFORNIA

TECKY FOUR DEPARTURE (RNAV)
(TECKY4.TECKY) 27JAN22
SAN JOSE, CALIFORNIA
NORMAN Y MINETA SAN JOSE INTL (SJC)

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 82216 W13A	APP CRS 127°	Rwy Ldg 2601 / TDZE 135 / Apt Elev 135

RNAV (GPS) RWY 13L

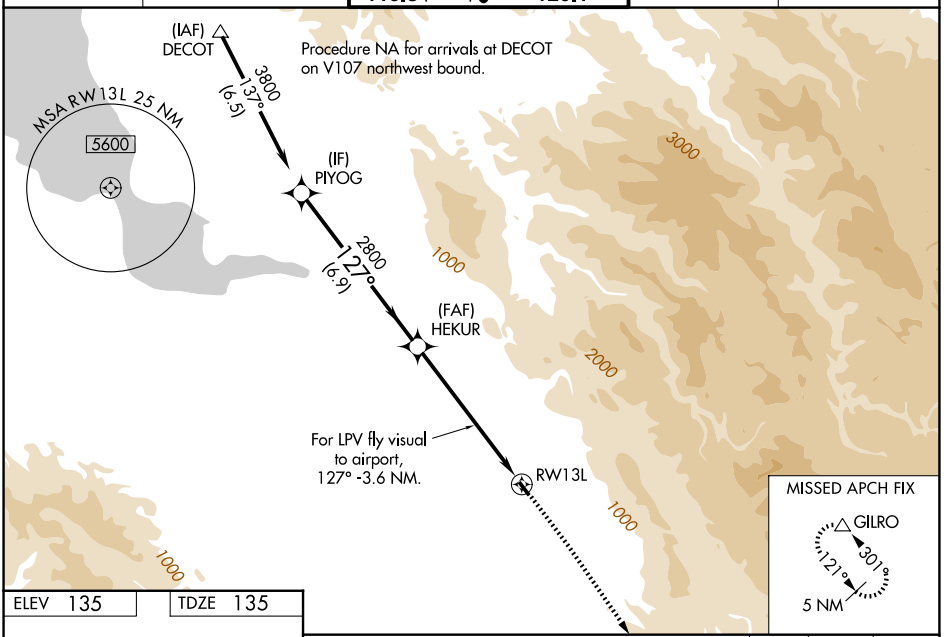
REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)

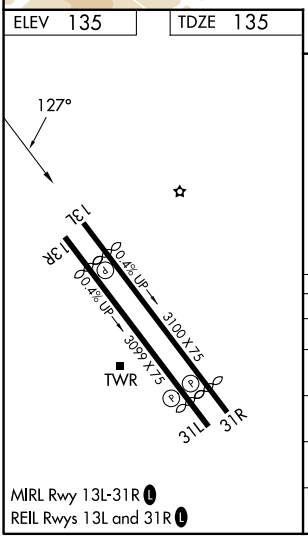
RNP APCH.

T NA Circling Rwy 31L NA at night. Rwy 13L helicopter visibility reduction below ¾ SM NA. VDP NA with Norman Y Mineta San Jose Intl altimeter setting. When control tower closed, use Norman Y Mineta San Jose Intl altimeter setting and increase all DAs 25 feet and all MDAs 40 feet; increase LPV# visibility to 1⅜ SM. Circling east of Rwy 13L-31R NA at night.

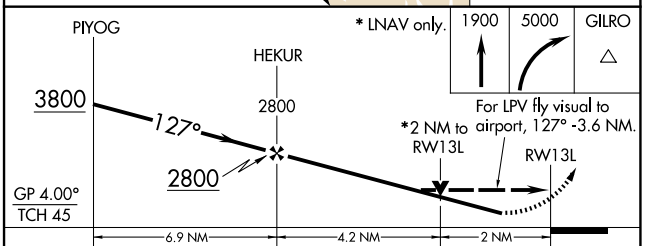
MISSED APPROACH: Climb to 1900 then climbing right turn to 5000 direct GILRO and hold.
#Missed approach requires minimum climb of 300 feet per NM to 2800.

ATIS	NORCAL APP CON	REID-HILLVIEW TOWER ★ (Rwy 13L-31R) (Rwy 13R-31L)	GND CON	UNICOM
125.2	120.1 290.25	119.8 (CTAF) L 126.1	121.65	122.95





MIRL Rwy 13L-31R L
REIL Rwys 13L and 31R L



CATEGORY	A	B	C	D
LPV DA#	562-1¼ 427 (500-1¼)		NA	
LPV DA	1708-3 1573 (1600-3)		NA	
LNAV MDA#	1040-1¼ 905 (1000-1¼)		NA	
LNAV MDA	1600-1¼ 1465 (1500-1¼)	1600-1½ 1465 (1500-1½)	NA	
CIRCLING	1600-1¼ 1465 (1500-1¼)	1600-1½ 1465 (1500-1½)	NA	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SAN JOSE, CALIFORNIA AL-5591 (FAA) 26078

APP CRS	Rwy Ldg	2690
312°	TDZE	133
	Apt Elev	135

RNAV (GPS) Y RWY 31R

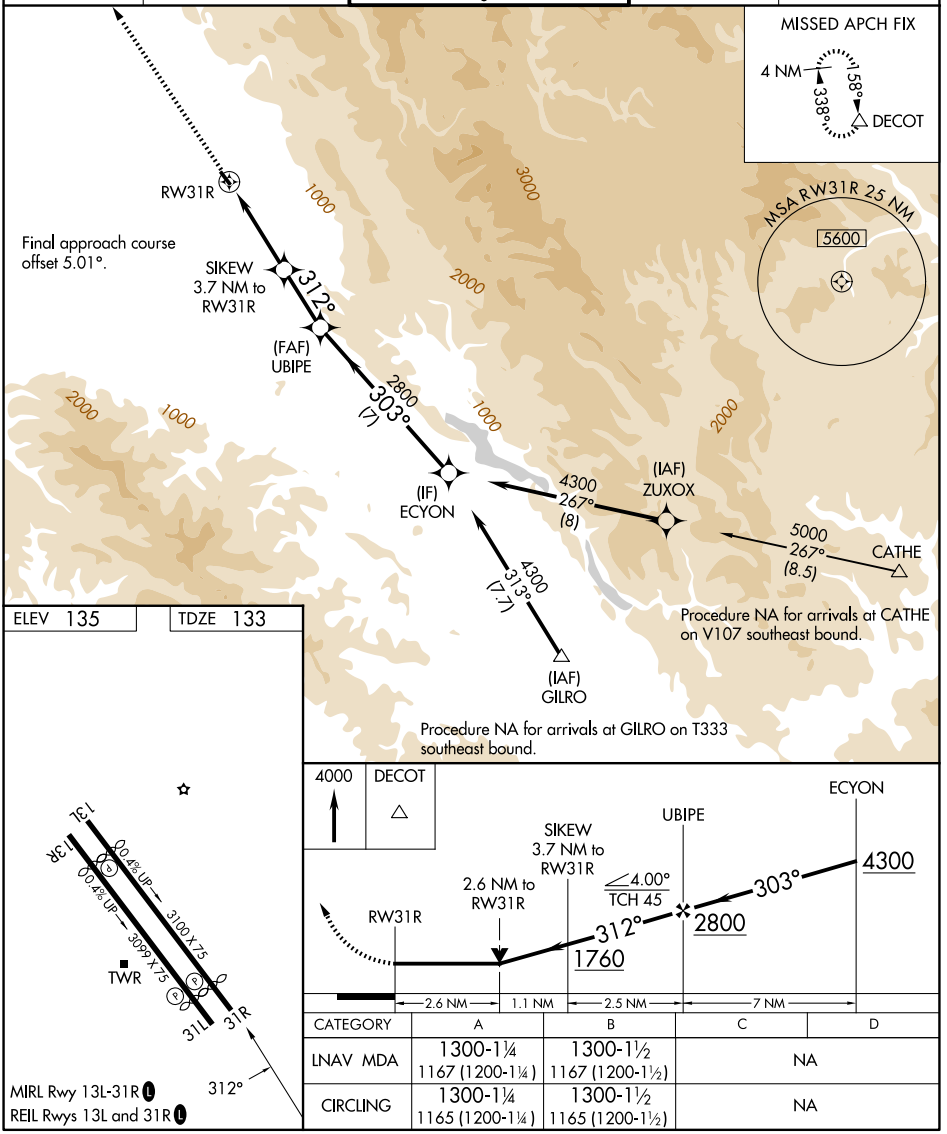
REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)

RNP APCH.

T A NA Circling Rwy 31L NA at night. Rwy 31R helicopter visibility reduction below ¾ SM NA. VDP NA when using Norman Y Mineta San Jose Intl altimeter setting. Circling east of Rwy 13L-31R NA at night. When control tower closed, use Norman Y Mineta San Jose Intl altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climb to 4000 direct DECOT and hold.

ATIS	NORCAL APP CON	REID-HILLVIEW TOWER ★ (Rwy 13L-31R) (Rwy 13R-31L)	GND CON	UNICOM
125.2	120.1 290.25	119.8 (CTAF) L 126.1	121.65	122.95



ELEV 135 TDZ 133

MIRL Rwy 13L-31R L
REIL Rwys 13L and 31R L

CATEGORY	A	B	C	D
LNAV MDA	1300-1¼ 1167 (1200-1¼)	1300-1½ 1167 (1200-1½)	NA	
CIRCLING	1300-1¼ 1165 (1200-1¼)	1300-1½ 1165 (1200-1½)	NA	

SAN JOSE, CALIFORNIA
Amdt 1 10SEP20

REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)
37°20'N-121°49'W
RNAV (GPS) Y RWY 31R

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	2690
CH 58316	307°	TDZE	133
W31A		Apt Elev	135

RNAV (GPS) Z RWY 31R

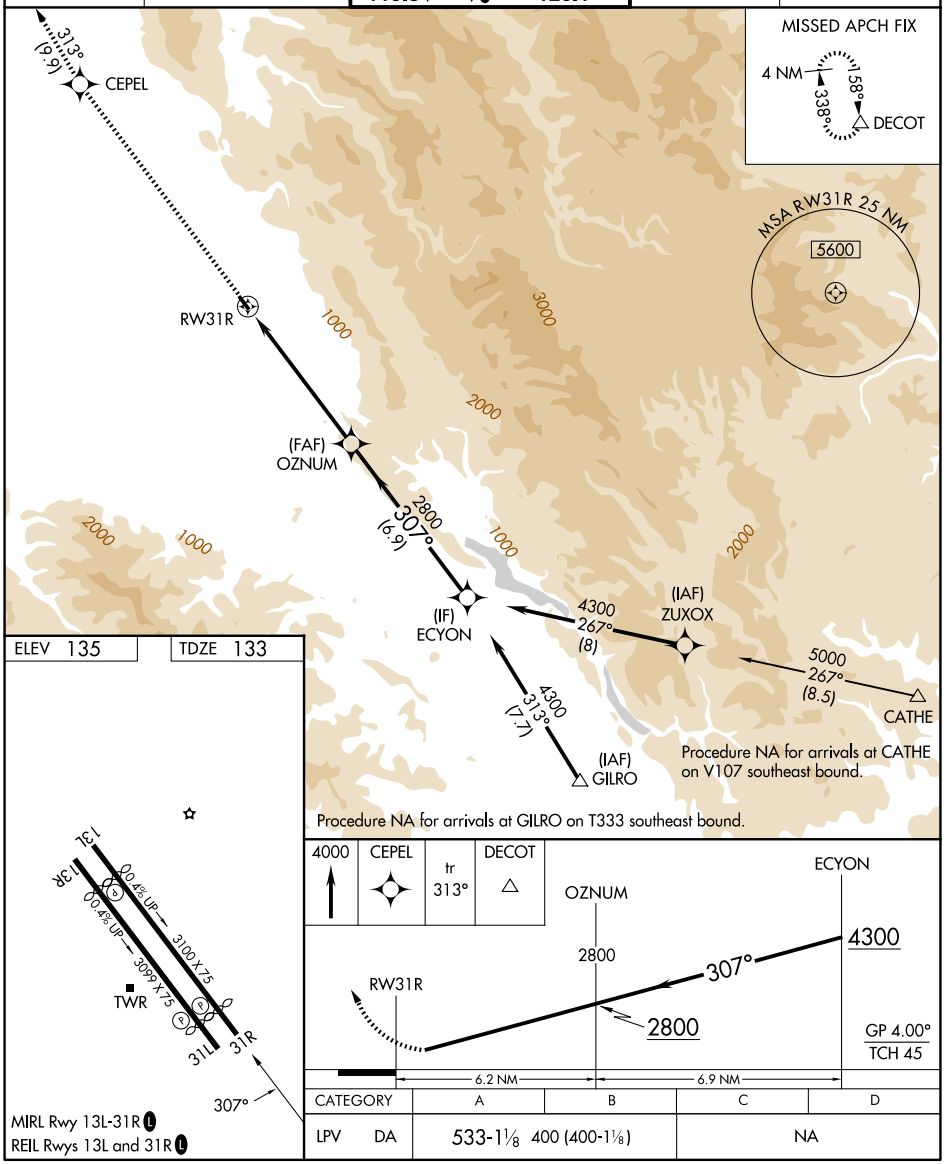
REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)

RNP APCH.

T NA When control tower closed, use Norman Y Mineta San Jose Intl altimeter setting and increase DA to 558 feet and visibility to 1¼ SM. Rwy 31R helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 4000 direct CEPEL and on track 313° to DECOT and hold.

ATIS	NORCAL APP CON	REID-HILLVIEW TOWER ★ (Rwy 13L-31R) (Rwy 13R-31L)	GND CON	UNICOM
125.2	120.1 290.25	119.8 (CTAF) L 126.1	121.65	122.95



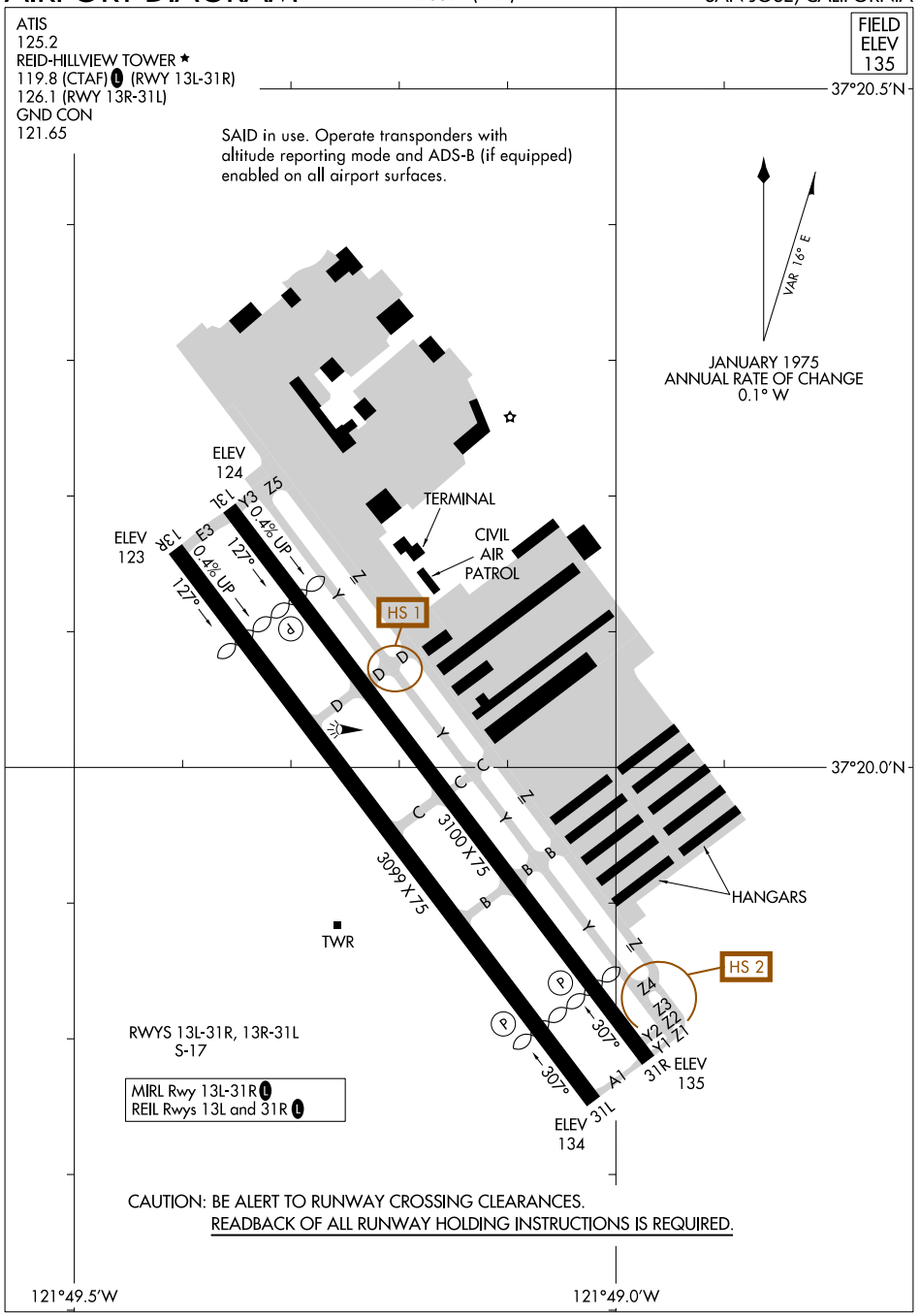
CATEGORY	A	B	C	D
LPV DA	533-1⅛ 400 (400-1⅛)		NA	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26134

AIRPORT DIAGRAM

REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)
AL-5591 (FAA)
SAN JOSE, CALIFORNIA

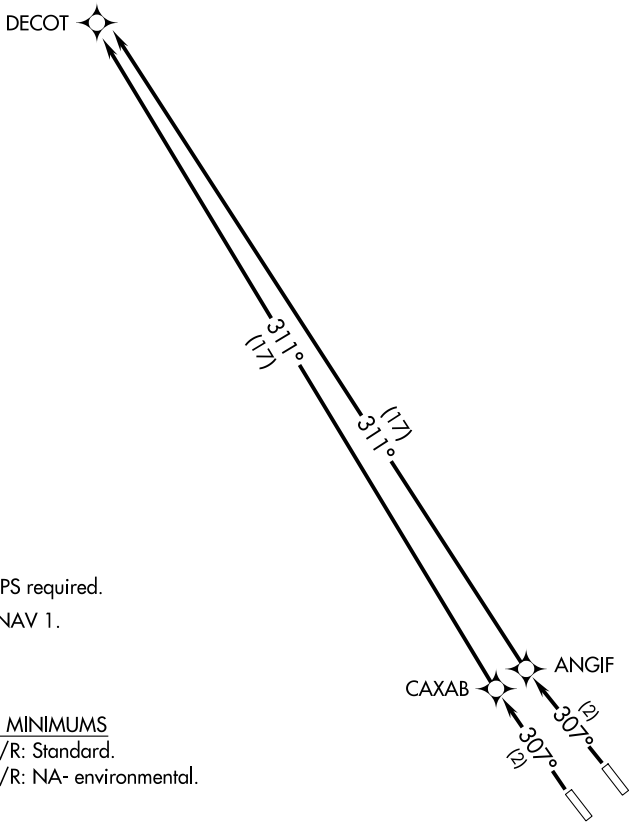


AIRPORT DIAGRAM
26134
SAN JOSE, CALIFORNIA
REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

NORCAL DEP CON
121.3 270.35



NOTE: GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 31L/R: Standard.
Rwys 13L/R: NA- environmental.

TAKEOFF OBSTACLE NOTES
Rwys 31L/R: Trees 1070' from DER, 500' right and left of centerline, 173' and 169' MSL.
Rwy 31R: Light 125' from DER, 370' right of centerline, 159' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 31L: Climb to 4000 via 307° course to CAXAB WP and 311° track to DECOT WP. Then via assigned route.

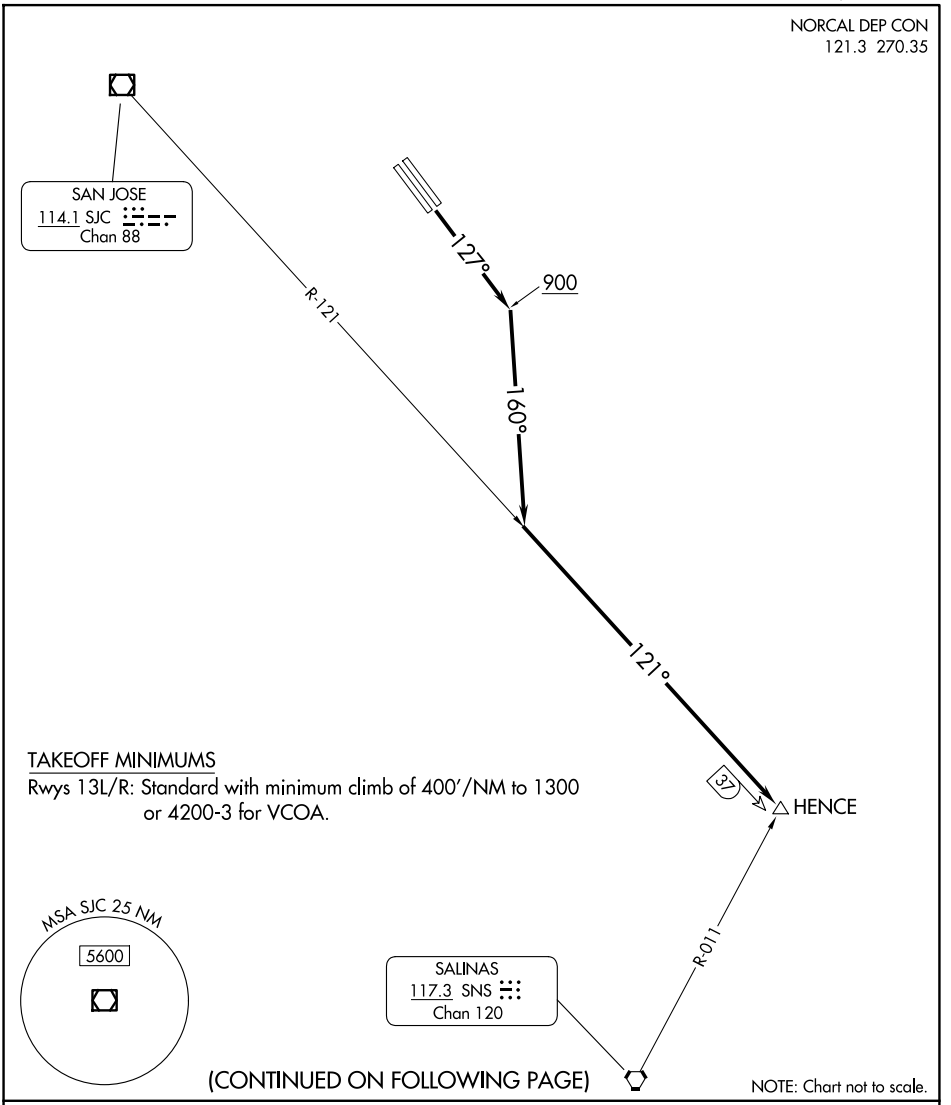
TAKEOFF RUNWAY 31R: Climb to 4000 via 307° course to ANGIF WP and 311° track to DECOT WP. Then via assigned route.

TAKEOFF RUNWAYS 13L/13R: NA.

(HENCE1.HENCE) 24249

HENCE ONE DEPARTURE (OBSTACLE)

REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)
AL-5591 (FAA)
SAN JOSE, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13L/R: Climb on heading 127° to 900, then climbing right turn to heading 160° to intercept SJC VOR/DME R-121 to HENCE.

VCOA RUNWAYS 13L/R: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Reid-Hillview of Santa Clara County Airport at or above 4200 before proceeding on course.

SW-2, 09 JUL 2026 to 03 SEP 2026

TAKEOFF OBSTACLE NOTES

Rwy 13L: Pole, vehicles on road beginning 91′ from DER, 30′ left of centerline, up to 39′ AGL/174′ MSL.
Fence 145′ from DER, 292′ right of centerline, 4′AGL/140′ MSL.
Pole, fence beginning 162′ from DER, 100′ right of centerline, up to 10′ AGL/147′ MSL.
Vehicles on road beginning 176′ from DER, 5′ right of centerline, up to 151′ MSL.
Pole 253′ from DER, 297′ left of centerline, 39′ AGL/175′ MSL.
Vehicle on road 253′ from DER, 333′ right of centerine, 15′ AGL/155′ MSL.
Pole 383′ from DER, 22′ right of centerline, 21′ AGL/156′ MSL.
Pole 617′ from DER, 438′ right of centerline, 20′ AGL/158′ MSL.
Trees, transmission line, pole, building beginning 652′ from DER, 238′ left of centerline, up to 241′ MSL.
Tree 659′ from DER, 147′ right of centerline, 166′ MSL.
Tree 709′ from DER, 269′ right of centerline, 168′ MSL.
Trees, electrical system beginning 859′ from DER, 460′ right of centerline, up to 183′ MSL.
Tree, electrical system beginning 1151′ from DER, 107′ right of centerline, up to 193′ MSL.
Building 1364′ from DER, 421′ right of centreline, 198′ MSL.
Tree, building beginning 1420′ from DER, 375′ right of centerline, up to 217′ MSL.
Trees, poles beginning 2204′ from DER, 40′ right of centerline, up to 246′ MSL.
Transmission line, tree beginning 2467′ from DER, 512′ left of centerline, up to 104′ AGL/244′ MSL.
Transmission lines beginning 3217′ from DER, 783′ left of centerline, up to 112′ AGL/255′ MSL.
Transmission line 4802′ from DER, 1350′ left of centerline, 110′ AGL/266′ MSL.

Rwy 13R: Fence 146′ from DER, 8′ left of centerline, 4′ AGL/140′ MSL.
Pole, fence beginning 163′ from DER, 7′ left of centerline, up to 10′ AGL/147′ MSL.
Vehicles on road beginning 177′ from DER, 15′ left of centerline, up to 151′ MSL.
Electrical system, vehicle on road beginning 185′ from DER, 33′ right of centerline, up to 34′ AGL/168′ MSL.
Vehicle on road 232′ from DER, 330′ left of centerline, 15′ AGL/155′ MSL.
Tree, vehicle on road beginning 255′ from DER, 315′ right of centerline, up to 175′ MSL.
Pole 384′ from DER, 277′ left of centerline, 21′ AGL/156′ MSL.
Tree, pole beginning 545′ from DER, 138′ right of centerline, up to 185′ MSL.
Tree 660′ from DER, 152′ left of centerline, 166′ MSL.
Tree 700′ from DER, 425′ right of centerline, 200′ MSL.
Trees, electrical systems, buildings beginning 701′ from DER, 75′ right of centerline, up to 229′ MSL.
Tree 709′ from DER, 30′ left of centerline 168′ MSL.
Tree 1152′ from DER, 192′ left of centerline, 193′ MSL.
Tree 1380′ from DER, 852′ left of centerline, 214′ MSL.
Tree, building beginning 1642′ from DER, 538′ left of centerline, up to 225′ MSL.
Tree 2134′ from DER, 807′ left of centerline, 240′ MSL.
Trees, transmission line beginning 2205′ from DER, 96′ left of centerline, up to 246′ MSL.
Trees, poles beginning 2436′ from DER, 349′ right of centerline, up to 233′ MSL.
Transmission lines beginning 3218′ from DER, 1082′ left of centerline, up to 112′ AGL/255′ MSL.
Transmission line 4803′ from DER, 1649′ left of centerline, 110′ AGL/266′ MSL.
Tower 2.2 NM from DER, 3840′ right of centerline, 104′ AGL/526′ MSL.

SW-2, 09 JUL 2026 to 03 SEP 2026

SAN MARTIN, CALIFORNIA | AL-9260 (FAA) | 26078

RNAV (GPS) RWY 32

SAN MARTIN (E16)

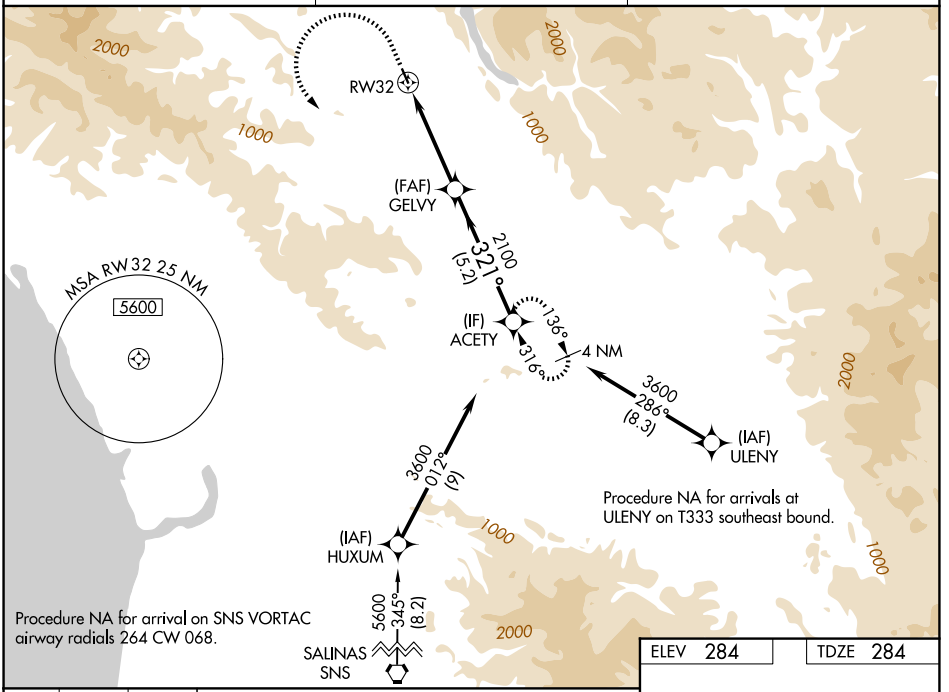
WAAS	APP CRS	Rwy Ldg	3095
CH 56444	321°	TDZE	284
W32A		Apt Elev	284

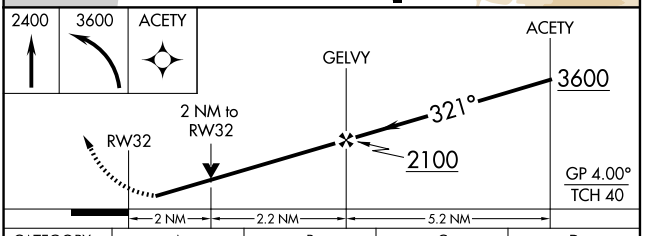
RNP APCH - GPS.

Circling NA southwest of Rwy 14-32. Rwy 32 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2400 then climbing left turn to 3600 direct ACETY and hold.
*Missed approach requires minimum climb of 260 feet per NM to 2400.

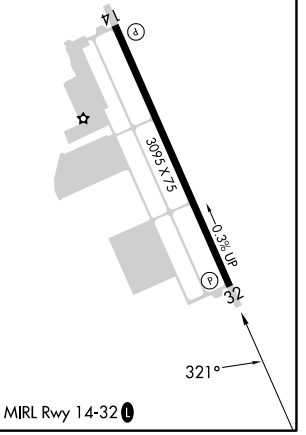
AWOS-3P	NORCAL APP CON	UNICOM
118.35	124.525 348.675	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA*	600-⅞ 316 (400-⅞)		NA	
LPV DA	954-1⅞ 670 (700-1⅞)		NA	
LNAV MDA*	1060-1 776 (800-1)	1060-1¼ 776 (800-1¼)	NA	
LNAV MDA	1320-1¼ 1036 (1100-1¼)	1320-1½ 1036 (1100-1½)	NA	
CIRCLING	1320-1¼ 1036 (1100-1¼)	1320-1½ 1036 (1100-1½)	NA	

ELEV 284 | TDZE 284



SAN MARTIN, CALIFORNIA
Amdt 2A 08SEP22

37°05'N-121°36'W

SAN MARTIN (E16)
RNAV (GPS) RWY 32

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC I-STS	APP CRS	Rwy Ldg	6000
109.3	321°	TDZE	122
		Apt Elev	129

ILS or LOC RWY 32

CHARLES M SCHULZ/SONOMA COUNTY (STS)

DME required.

Autopilot coupled approach NA below 1286. DME from STS DME. DME use requires simultaneous reception of I-STS and STS DME. For inop ALS increase S-ILS 32 visibility all Cats to RVR 4500, S-LOC 32 Cats A/B to RVR 5500.

MALSR

MISSED APPROACH: Climb to 1020 then climb to 6000 on ENI VORTAC R-131 to CABEX/ENI VORTAC 18 DME and hold, continue climb-in-hold to 6000.

ATIS	OAKLAND CENTER	SANTA ROSA TOWER★	GND CON	UNICOM
120.55	127.8 353.5	118.5 (CTAF) L 363.0	121.9	122.95

MISSED APCH FIX

112.3 ENI R-131 Chan 70

CABEX

ENI 18

131° 311°

LOCALIZER 109.3 I-STS

SANTA ROSA Chan 108(Y) STS (116.15)

MSA STS 25 NM 5900

Santa Rosa Air Center (Abandoned)

PIGPN STS 6.2

EDOVE INT STS 9.8

(IF) LUSEE INT STS 12.2

2700 321° (2.4)

3000 281° (2.5)

321° (3.7)

2000

1000

2000

1000

2000

1000

1000

R-281

R-005

R-010

R-019

141°

R-330

R-230

IAF SCAGGS ISLAND 112.1 SGD Chan 58

3900 281° (15.5)

DACER INT SGD 15.5

3000 321° (14.1)

BURDE INT SAU 15.4 STS 26.2

4000 330° (15.4)

IAF SAUSALITO 116.2 SAU Chan 109

ALTERNATE MISSED APCH FIX

POINT REYES PYE 113.7 Chan 84

010° 190° R-190

Procedure NA for arrivals at PYE VOR/DME on V25-27 and T257 southeast bound.

IAF POINT REYES 113.7 PYE Chan 84

3000 010° (16.4)

ELEV 129 D TDZE 122

1020 6000 ENI R-131 CABEX

STS 0.4

PIGPN STS 6.2

EDOVE INT STS 9.8

LUSEE INT STS 12.2

2000 321° 3000 2700 2000

GS 3.00° TCH 53

5.7 NM 3.7 NM 2.4 NM

CATEGORY	A	B	C	D
S-ILS 32	377/24 255 (300-½)			
S-LOC 32	580/24 458 (500-½)		580/45 458 (500-⅞)	
CIRCLING	600-1 471 (500-1)	680-1 551 (600-1)	1080-3 951 (1000-3)	1420-3 1291 (1300-3)

1A 20 0.3% UP 5202 X 100 6000 X 150 TWR 2 A5 32 321°

MIRL Rwy 2-20 L

HIRL Rwy 14-32 L

REIL Rwy 14 L

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

SANTA ROSA, CALIFORNIA AL-696 (FAA) 25331

RNAV (GPS) RWY 2

CHARLES M SCHULZ/SONOMA COUNTY (STS)

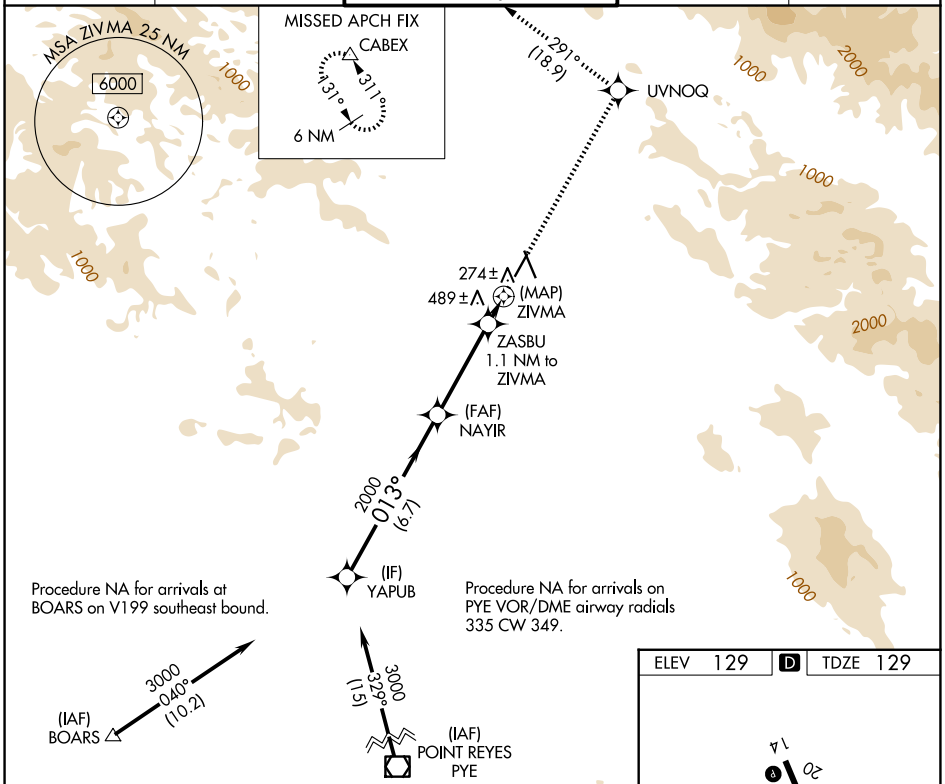
WAAS	APP CRS	Rwy Ldg	4802
CH 69230	013°	TDZE	129
W02A		Apt Elev	129

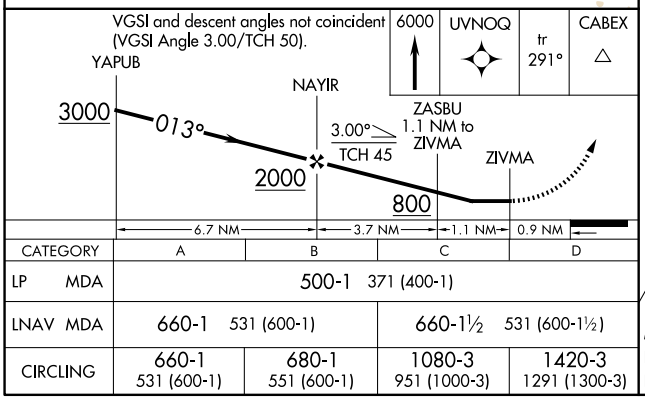
RNP APCH.

Rwy 2 helicopter visibility reduction below ¾ SM NA.

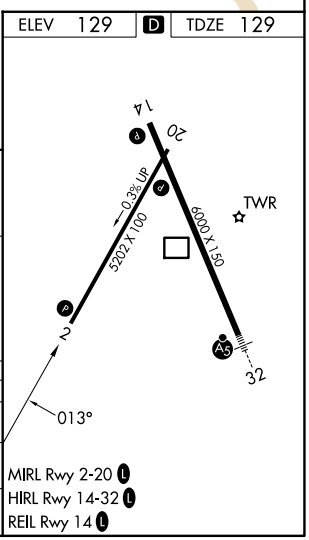
MISSED APPROACH: Climb to 6000 direct UVNOQ and on track 291° to CABEX and hold, continue climb-in-hold to 6000.

ATIS	OAKLAND CENTER	SANTA ROSA TOWER ★	GND CON	UNICOM
120.55	127.8 353.5	118.5 (CTAF) L 363.0	121.9	122.95





CATEGORY	A	B	C	D
LP MDA	500-1 371 (400-1)			
LNAV MDA	660-1 531 (600-1)		660-1½ 531 (600-1½)	
CIRCLING	660-1 531 (600-1)	680-1 551 (600-1)	1080-3 951 (1000-3)	1420-3 1291 (1300-3)



MIRL Rwy 2-20 L
HIRL Rwy 14-32 L
REIL Rwy 14 L

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

SANTA ROSA, CALIFORNIA
Orig-E 28MAR19

38°31′N-122°49′W

CHARLES M SCHULZ/SONOMA COUNTY (STS)
RNAV (GPS) RWY 2

APP CRS		
126°	Rwy Ldg	5880
	TDZE	122
	Apt Elev	129

RNAV (GPS) RWY 14

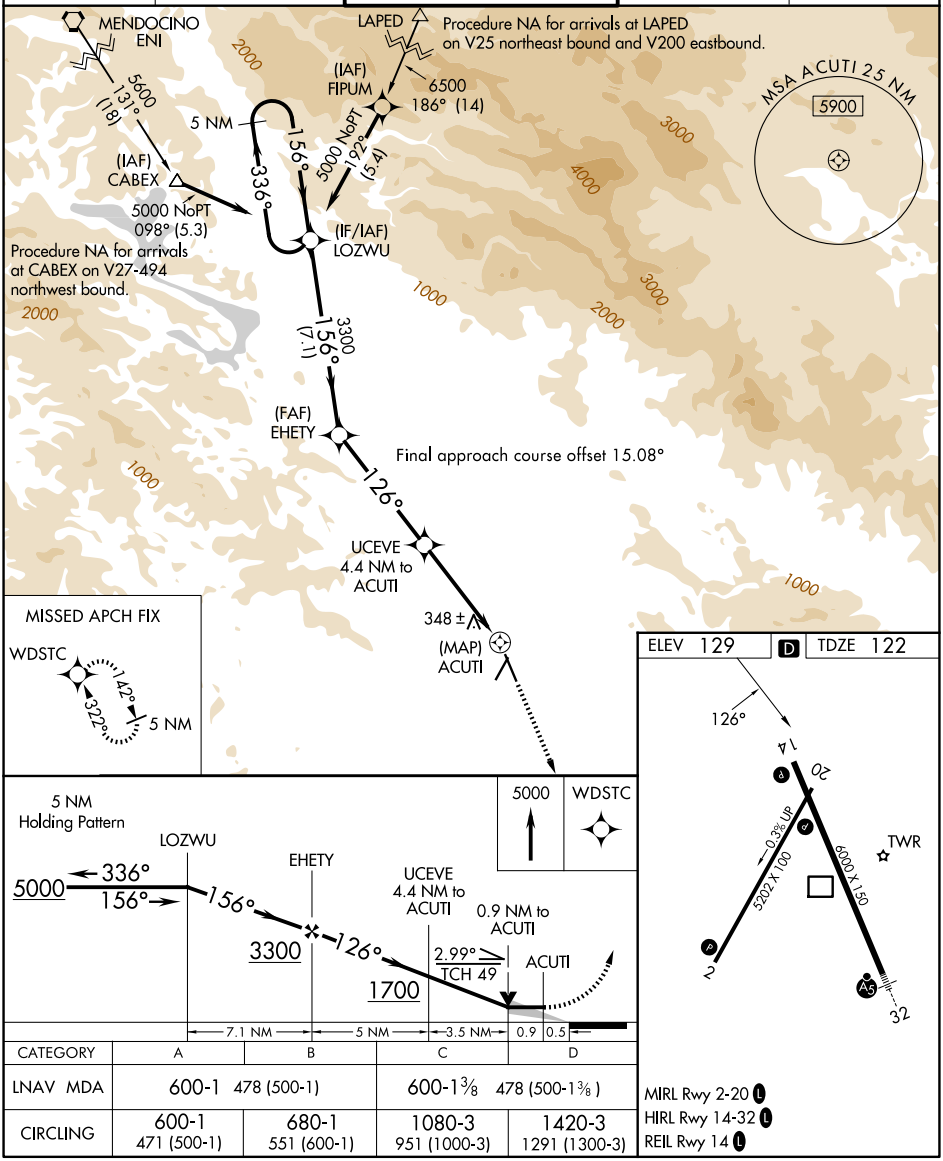
CHARLES M SCHULZ/SONOMA COUNTY (STS)

RNP APCH.

Rwy 14 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 5000 direct WDSTC and hold, continue climb-in-hold to 5000.

ATIS	OAKLAND CENTER	SANTA ROSA TOWER★	GND CON	UNICOM
120.55	127.8 353.5	118.5 (CTAF) L 363.0	121.9	122.95



CATEGORY	A	B	C	D
LNAV MDA	600-1 478 (500-1)		600-1⅜ 478 (500-1⅜)	
CIRCLING	600-1 471 (500-1)	680-1 551 (600-1)	1080-3 951 (1000-3)	1420-3 1291 (1300-3)

MIRL Rwy 2-20 L
HIRL Rwy 14-32 L
REIL Rwy 14 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SANTA ROSA, CALIFORNIA | AL-696 (FAA) | 25331

RNAV (GPS) RWY 32

CHARLES M SCHULZ/SONOMA COUNTY (STS)

WAAS	APP CRS	Rwy Ldg	6000
CH 72611	321°	TDZE	122
W32A		Apt Elev	129

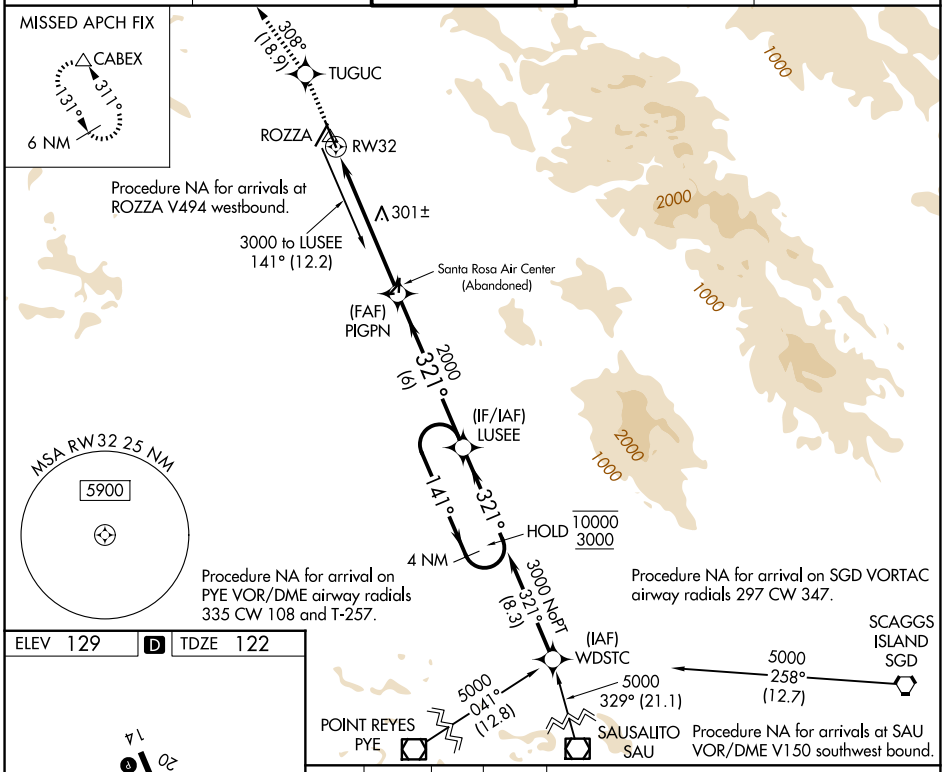
RNP APCH-GPS.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C or above 54°C.
#RVR 1800 authorized with use of FD or AP or HUD to DA.

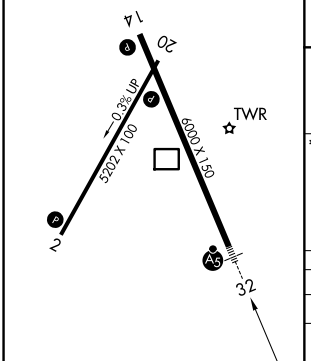
MALSR

MISSED APPROACH: Climb to 6000 direct TUGUC and on track 308° to CABEX and hold, continue climb-in-hold to 6000.

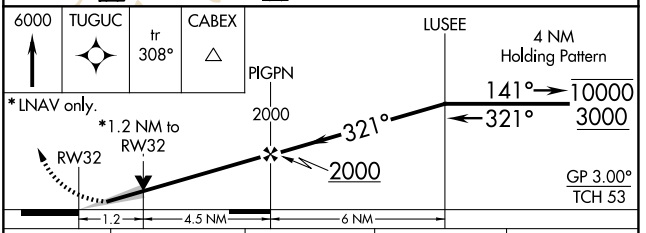
ATIS	OAKLAND CENTER	SANTA ROSA TOWER*	GND CON	UNICOM
120.55	127.8 353.5	118.5 (CTAF) L 363.0	121.9	122.95



ELEV 129 | D | TDZE 122



MIRL Rwy 2-20 L
HIRL Rwy 14-32 L
REIL Rwy 14 L

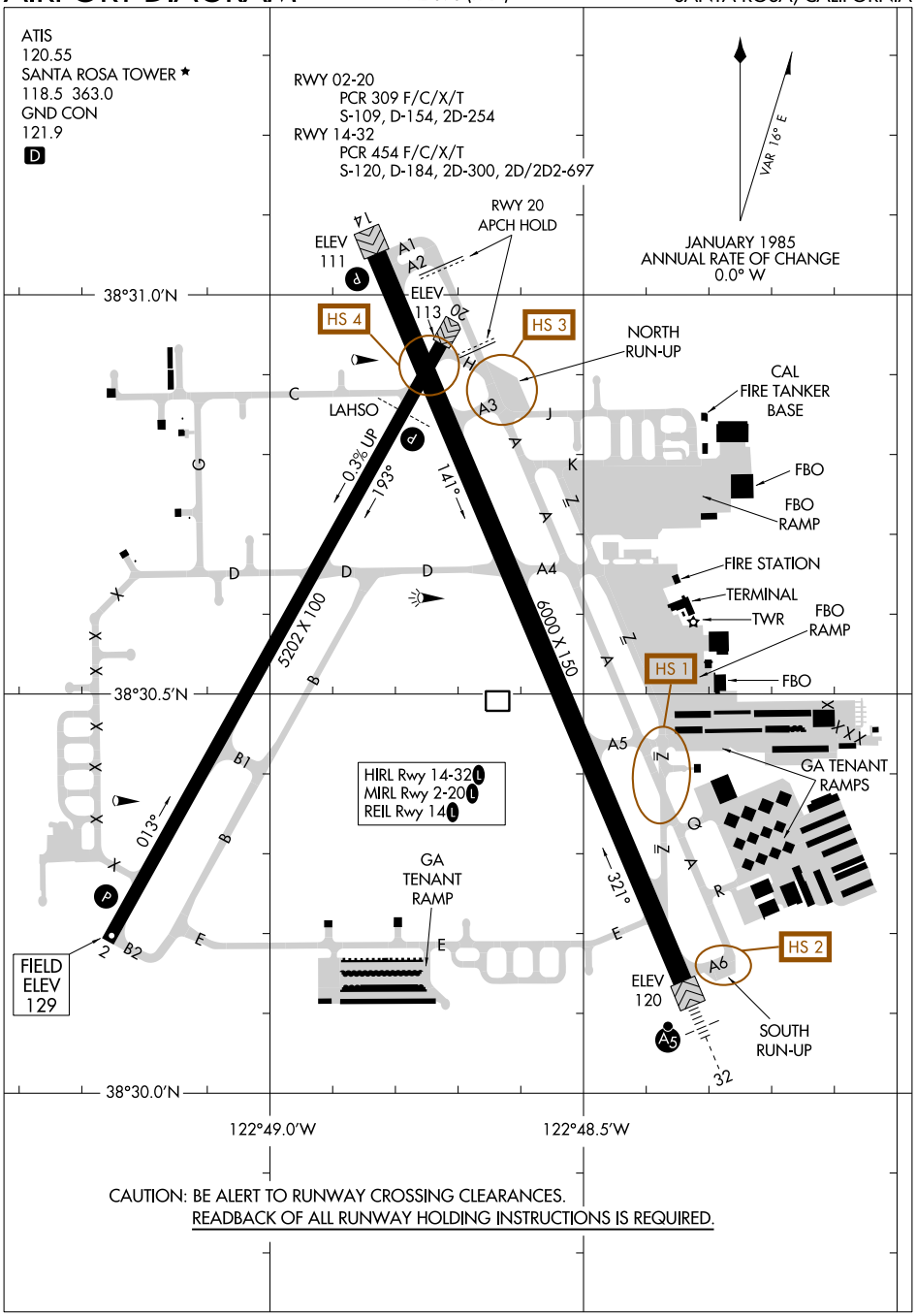


CATEGORY	A	B	C	D
LPV DA#	322/24 200 (200-½)			
LNAV/VNAV DA	570/50 448 (500-1)			
LNAV MDA	560/24 438 (500-½)		560/40 438 (500-¾)	
CIRCLING	600-1 471 (500-1)	680-1 551 (600-1)	1080-3 951 (1000-3)	1420-3 1291 (1300-3)

SANTA ROSA, CALIFORNIA
Amdt 1F 12AUG21

CHARLES M SCHULZ/SONOMA COUNTY (STS)
38°31′N-122°49′W
RNAV (GPS) RWY 32

SW-2, 09 JUL 2026 to 03 SEP 2026

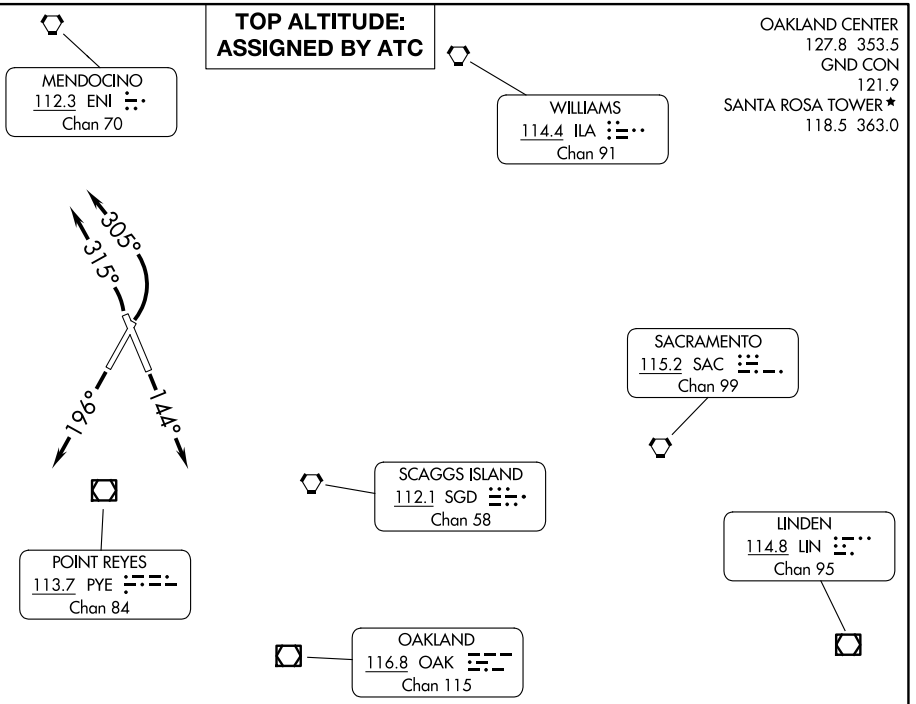


CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

(CHRLY8.ROZZA) 24305

CHARLIE EIGHT DEPARTURE

CHARLES M SCHULZ/SONOMA COUNTY (STS)
AL-696 (FAA)
SANTA ROSA, CALIFORNIA



NOTE: RADAR required.

TAKEOFF MINIMUMS

Rwy 2: Standard with minimum climb of 300' per NM to 2100.
Rwy 14: Standard with minimum climb of 285' per NM to 2500.
Rwy 20: Standard with minimum climb of 265' per NM to 2200.
Rwy 32: Standard with minimum climb of 375' per NM to 2200.

NOTE: Chart not to scale.

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climbing left turn on heading 305° (or as assigned between 200° CW to 305° from departure end of runway), thence . . . .

TAKEOFF RUNWAY 14: Climb on heading 144° (or as assigned between 110° CW to 315° from departure end of runway), thence . . . .

TAKEOFF RUNWAY 20: Climb on heading 196° (or as assigned between 100° CW to 250° from departure end of runway), thence . . . .

TAKEOFF RUNWAY 32: Climbing left turn on heading 315° (or as assigned between 145° CW to 315° from departure end of runway), thence . . . .

. . . . expect RADAR vectors to join assigned route. Maintain ATC assigned altitude; expect filed altitude/flight level ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with Oakland Center after reaching 4000, proceed direct to the PYE VOR/DME. Thence via assigned route.

CHRRO ONE DEPARTURE (RNAV)

(CHRRO1.CHRRO) 25JAN24

CHARLES M SCHULZ/SONOMA COUNTY (STS)

SANTA ROSA, CALIFORNIA

(CHRRO1.CHRRO) 24305

CHRRO ONE DEPARTURE (RNAV)

AL-696 (FAA)

CHARLES M SCHULZ/SONOMA COUNTY (STS)

SANTA ROSA, CALIFORNIA

369

TAKEOFF MINIMUMS

Rwy 2: NA - ATC.

Rwy 14: Standard with minimum climb of 300′ per NM to 6100.

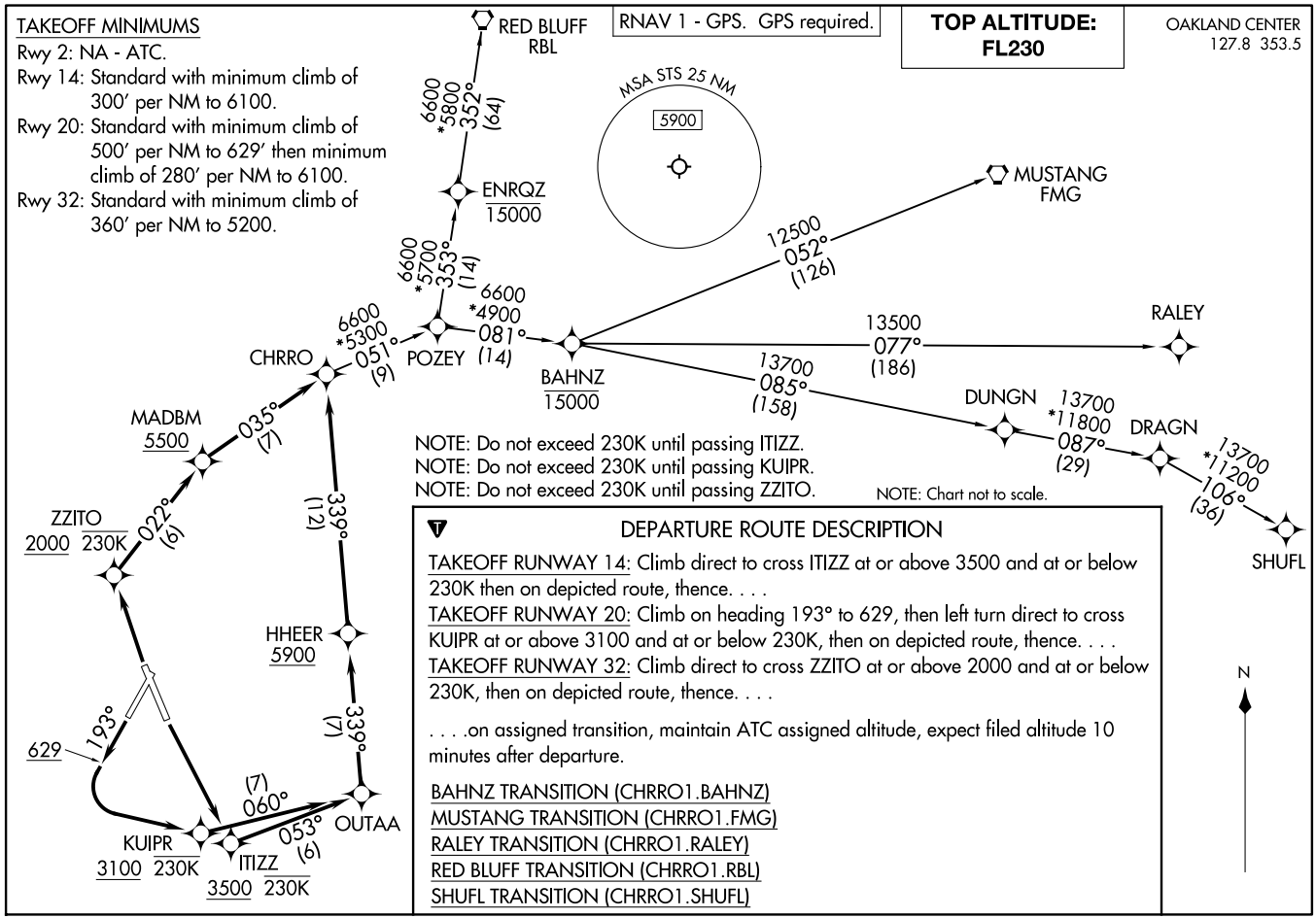
Rwy 20: Standard with minimum climb of 500′ per NM to 629′ then minimum climb of 280′ per NM to 6100.

Rwy 32: Standard with minimum climb of 360′ per NM to 5200.

RNAV 1 - GPS. GPS required.

TOP ALTITUDE: FL230

OAKLAND CENTER 127.8 353.5



NOTE: Do not exceed 230K until passing ITIZZ.

NOTE: Do not exceed 230K until passing KUIPR.

NOTE: Do not exceed 230K until passing ZZITO.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb direct to cross ITIZZ at or above 3500 and at or below 230K then on depicted route, thence. . . .

TAKEOFF RUNWAY 20: Climb on heading 193° to 629, then left turn direct to cross KUIPR at or above 3100 and at or below 230K, then on depicted route, thence. . . .

TAKEOFF RUNWAY 32: Climb direct to cross ZZITO at or above 2000 and at or below 230K, then on depicted route, thence. . . .

. . . .on assigned transition, maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

BAHNZ TRANSITION (CHRRO1.BAHNZ)

MUSTANG TRANSITION (CHRRO1.FMG)

RALEY TRANSITION (CHRRO1.RALEY)

RED BLUFF TRANSITION (CHRRO1.RBL)

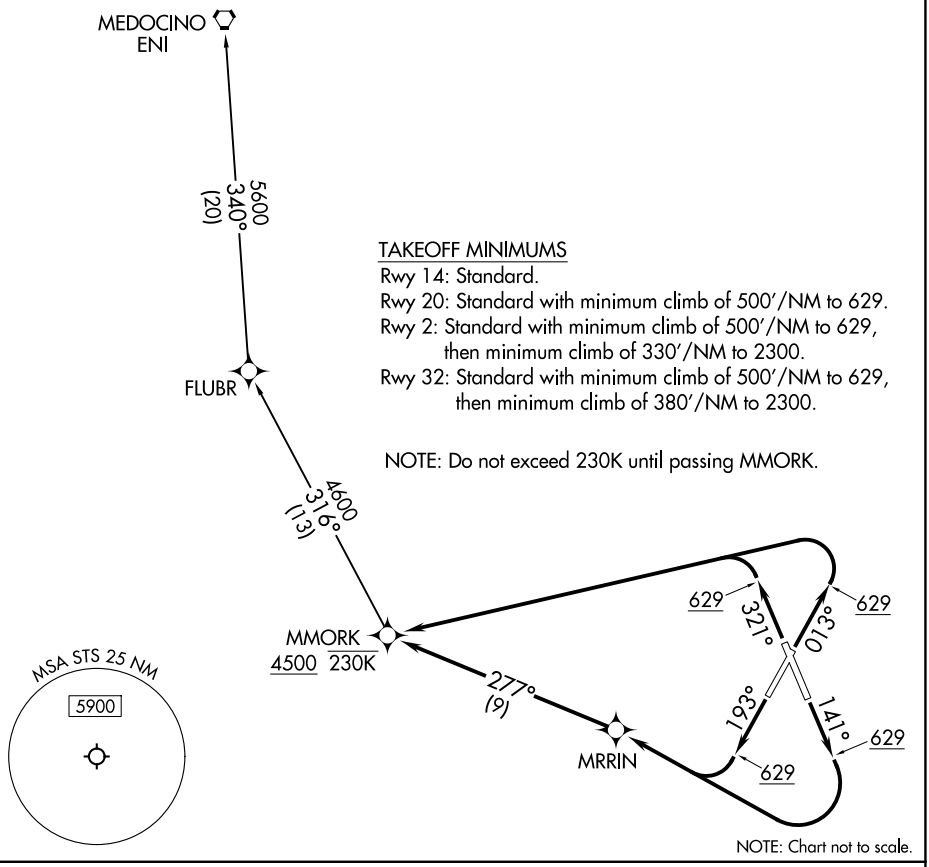
SHUFL TRANSITION (CHRRO1.SHUFL)

MMORK ONE DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

RNAV 1 - DME/DME/IRU or GPS.
RADAR required for non-GPS equipped aircraft.

OAKLAND CENTER
127.8 353.5



TAKEOFF MINIMUMS
Rwy 14: Standard.
Rwy 20: Standard with minimum climb of 500'/NM to 629.
Rwy 2: Standard with minimum climb of 500'/NM to 629, then minimum climb of 330'/NM to 2300.
Rwy 32: Standard with minimum climb of 500'/NM to 629, then minimum climb of 380'/NM to 2300.

NOTE: Do not exceed 230K until passing MMORK.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb on heading 013° to 629, then left turn direct to cross MMORK at or above 4500 and at or below 230K, thence . . . .

TAKEOFF RUNWAY 14: Climb on heading 141° to 629, then right turn direct MRRIN, then on depicted route, thence . . . .

TAKEOFF RUNWAY 20: Climb on heading 193° to 629, then right turn direct MRRIN, then on depicted route, thence . . . .

TAKEOFF RUNWAY 32: Climb on heading 321° to 629, then left turn direct to cross MMORK at or above 4500 and at or below 230K, thence . . . .

. . . . on assigned transition, maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

MENDOCINO TRANSITION (MMORK1.ENI)

SW-2, 09 JUL 2026 to 03 SEP 2026

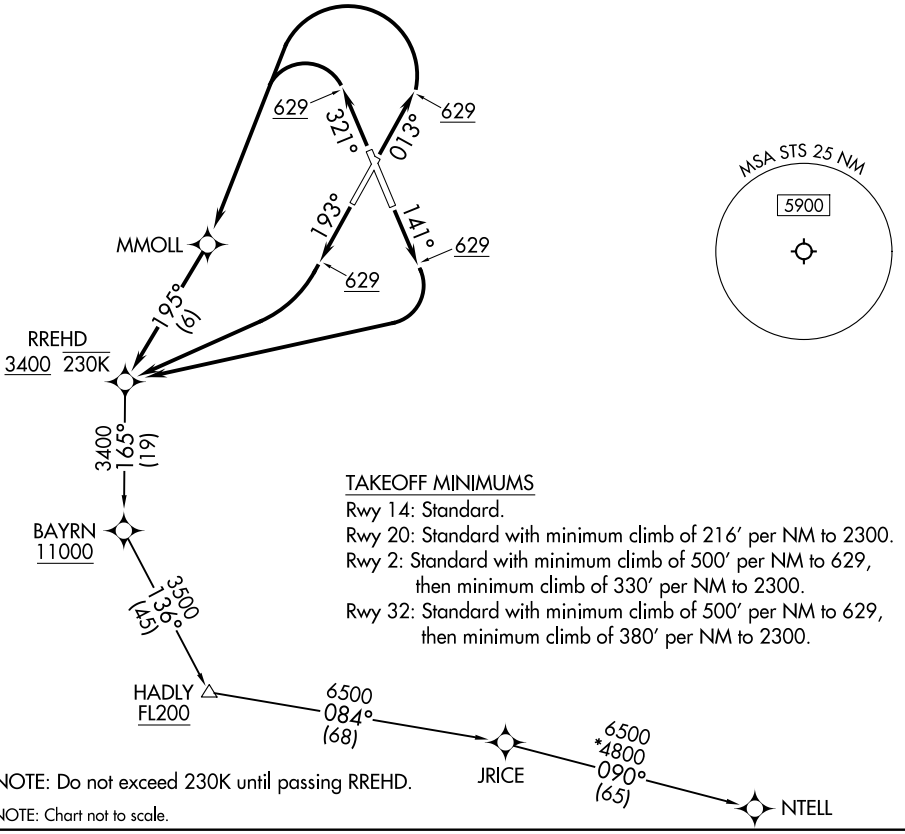
RREHD ONE DEPARTURE (RNAV)

AL-696 (FAA)

TOP ALTITUDE: FL230

RNAV 1 - DME/DME/IRU or GPS.
RADAR required for non-GPS equipped aircraft.

OAKLAND CENTER
127.8 353.5



TAKEOFF MINIMUMS
Rwy 14: Standard.
Rwy 20: Standard with minimum climb of 216′ per NM to 2300.
Rwy 2: Standard with minimum climb of 500′ per NM to 629, then minimum climb of 330′ per NM to 2300.
Rwy 32: Standard with minimum climb of 500′ per NM to 629, then minimum climb of 380′ per NM to 2300.

NOTE: Do not exceed 230K until passing RREHD.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb on heading 013° to 629, then left turn direct MMOLL, then on depicted route, thence . . . .

TAKEOFF RUNWAY 14: Climb on heading 141° to 629, then right turn direct to cross RREHD at or above 3400 and at or below 230K, thence . . . .

TAKEOFF RUNWAY 20: Climb on heading 193° to 629, then right turn direct to cross RREHD at or above 3400 and at or below 230K, thence . . . .

TAKEOFF RUNWAY 32: Climb on heading 321° to 629, then left turn direct MMOLL, then on depicted route, thence . . . .

. . . .on assigned transition, maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

HADLY TRANSITION (RREHD1.HADLY)

NTELL TRANSITION (RREHD1.NTELL)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SOUTH LAKE TAHOE, CALIFORNIA | AL-5416 (FAA) | 26190

WAAS	APP CRS	Rwy Ldg	7017
CH 57943	172°	TDZE	6259
W18A		Apt Elev	6268

RNAV (GPS) RWY 18

LAKE TAHOE (TVL)

RNP APCH.

Circling NA at night. Rwy 18 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, procedure NA. Circling NA east of Rwy 18-36.

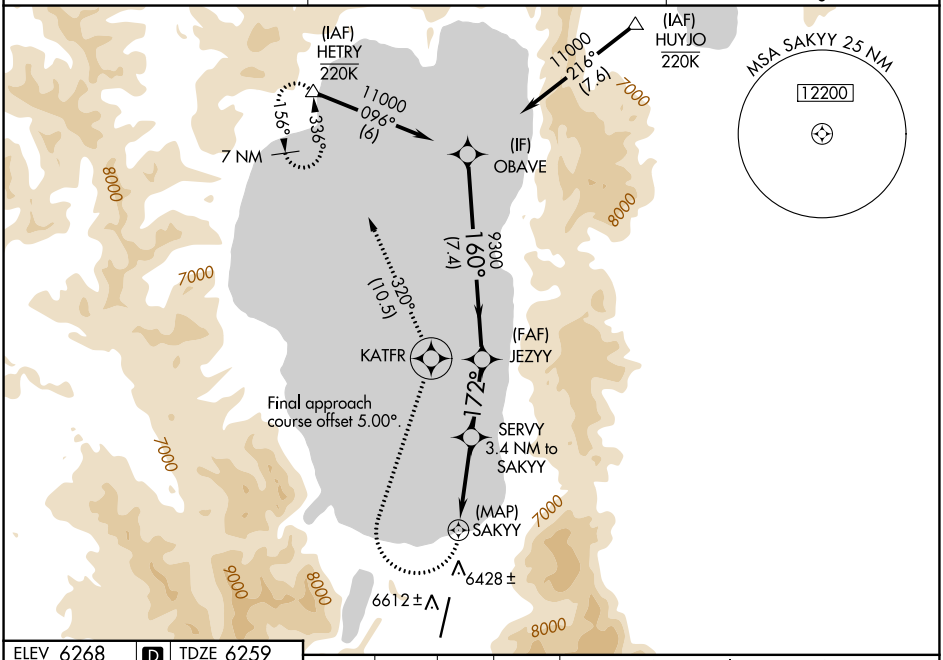
NA

-12°C

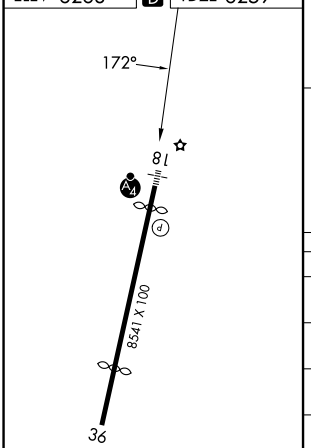
MALSF

MISSED APPROACH: (Do not exceed 185K until KATFR). Climbing right turn to 10000 direct KATFR then on track 320° to HETRY and hold, continue climb-in-hold to 12000. * Missed approach requires minimum climb of 425 feet per NM to 10000.

ASOS	OAKLAND CENTER	CTAF
124.725	127.95 316.1	122.85 L

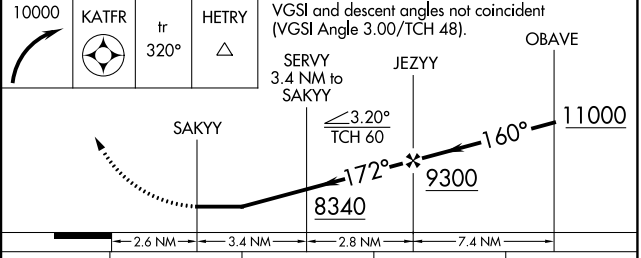


ELEV 6268 | D | TDZE 6259



REIL Rwy 36

MIRL Rwy 18-36 L



CATEGORY	A	B	C	D
LP MDA*	6680-3 421 (500-3)			
LP MDA	7120-3 861 (900-3)		7140-3 881 (900-3)	7320-3 1061 (1100-3)
LNAV MDA*	6980-3 721 (800-3)			7560-3 1301 (1300-3)
LNAV MDA	7280-3 1021 (1100-3)	7620-3 1361 (1400-3)	8160-3 1901 (1900-3)	NA
CIRCLING	7420-3 1152 (1200-3)	7680-3 1412 (1500-3)	8160-3 1892 (1900-3)	NA

SOUTH LAKE TAHOE, CALIFORNIA

Amdt 1 15AUG19

38°54'N-120°00'W

LAKE TAHOE (TVL)

RNAV (GPS) RWY 18

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

LOC/DME I-TVL	APP CRS	Rwy Ldg	7017
108.9	171°	TDZE	6259
Chan 26		Apt Elev	6268

LDA RWY 18
LAKE TAHOE (TVL)

DME required.

T
NA
-12°C

Rwy 18 helicopter visibility reduction below ¾ SM NA.
When local altimeter setting not received, procedure NA.

MALSF

MISSED APPROACH: Climbing right turn to 11000 on heading 329° and SWR VOR/DME R-102 to SWR VOR/DME and hold.

ASOS	OAKLAND CENTER	CTAF
124.725	127.95 316.1	122.85 L

IAF PALISADES 113.2 SWR Chan 79

IAF MUSTANG 117.9 FMG Chan 126

12400 059° (2)

12400 201° (21.3)

BRITH SWR 14.2

R-059

12400 059° (14.2)

218° 038°

R-218

R-102

R-201

(IF) KINGS INT I-TVL 20.4

10200 171° (8)

YUKUV I-TVL 12.4

9500 171° (2.9)

FABIK I-TVL 9.5

ZASAP I-TVL 7.4

WUGUK I-TVL 4

Procedure NA for arrivals at SWR VOR/DME on V494 westbound

Procedure NA for arrival on FMG VORTAC airway radials 167 CW 241.

MSA SWR 25 NM 12000

LOCALIZER 108.9
I-TVL
Chan 26
LOC offset 5.50°

7000 8000 9000

ELEV 6268 D TDZE 6259

171°

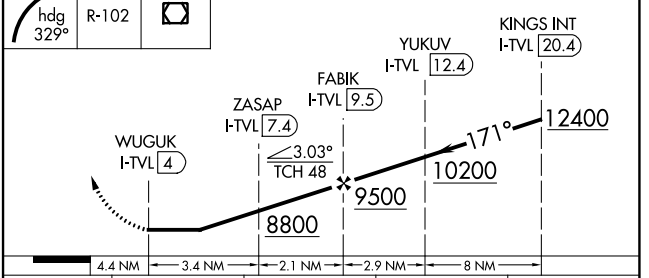
18

8541 X 100

36

REIL Rwy 36
MIRL Rwy 18-36 L

11000 hdg 329°	SWR R-102	SWR



CATEGORY	A	B	C	D
S-18	7160-5	901 (900-5)		8520-5 2261 (2300-5)

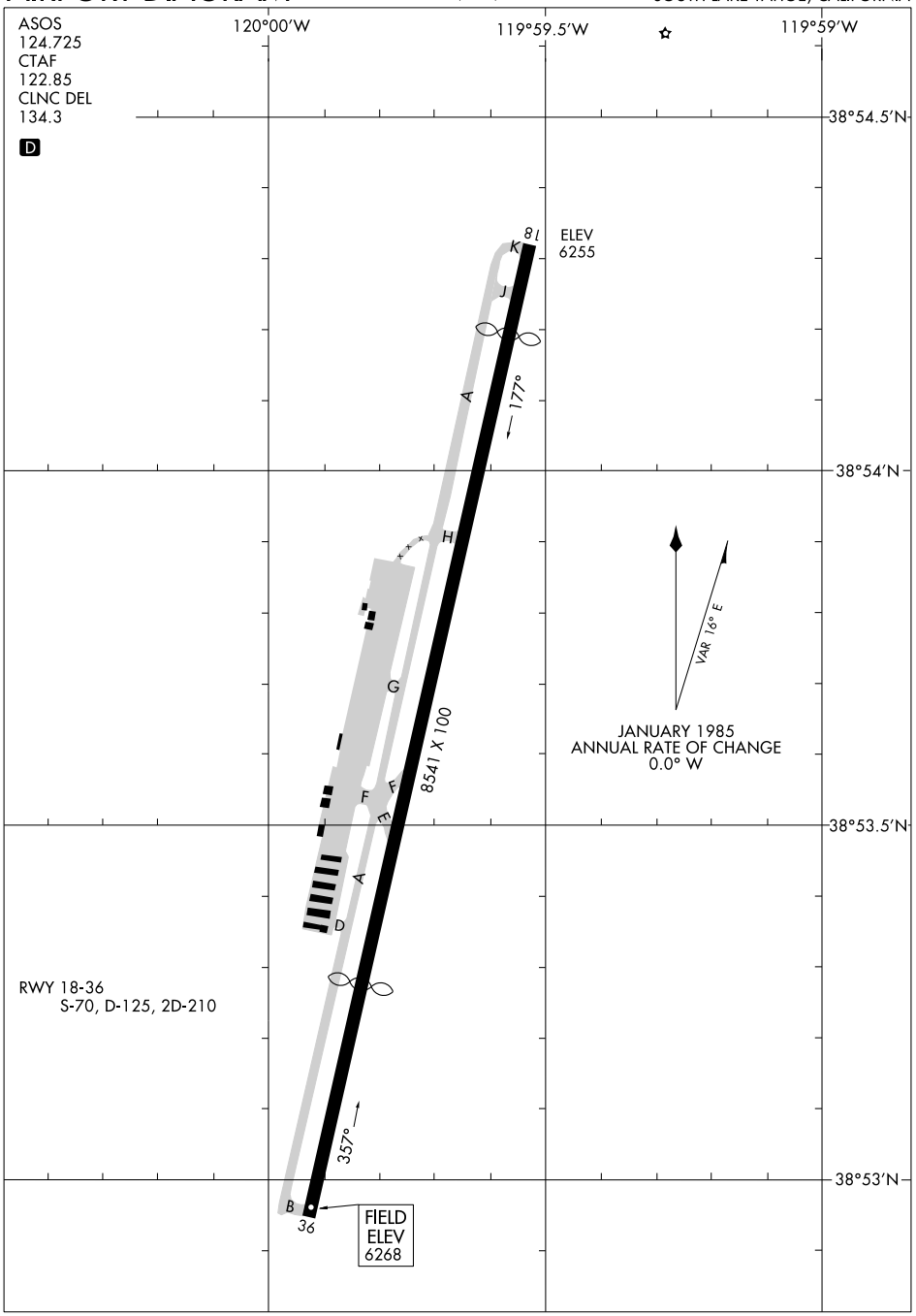
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26190

AIRPORT DIAGRAM

AL-5416 (FAA)

LAKE TAHOE (TVL)
SOUTH LAKE TAHOE, CALIFORNIA



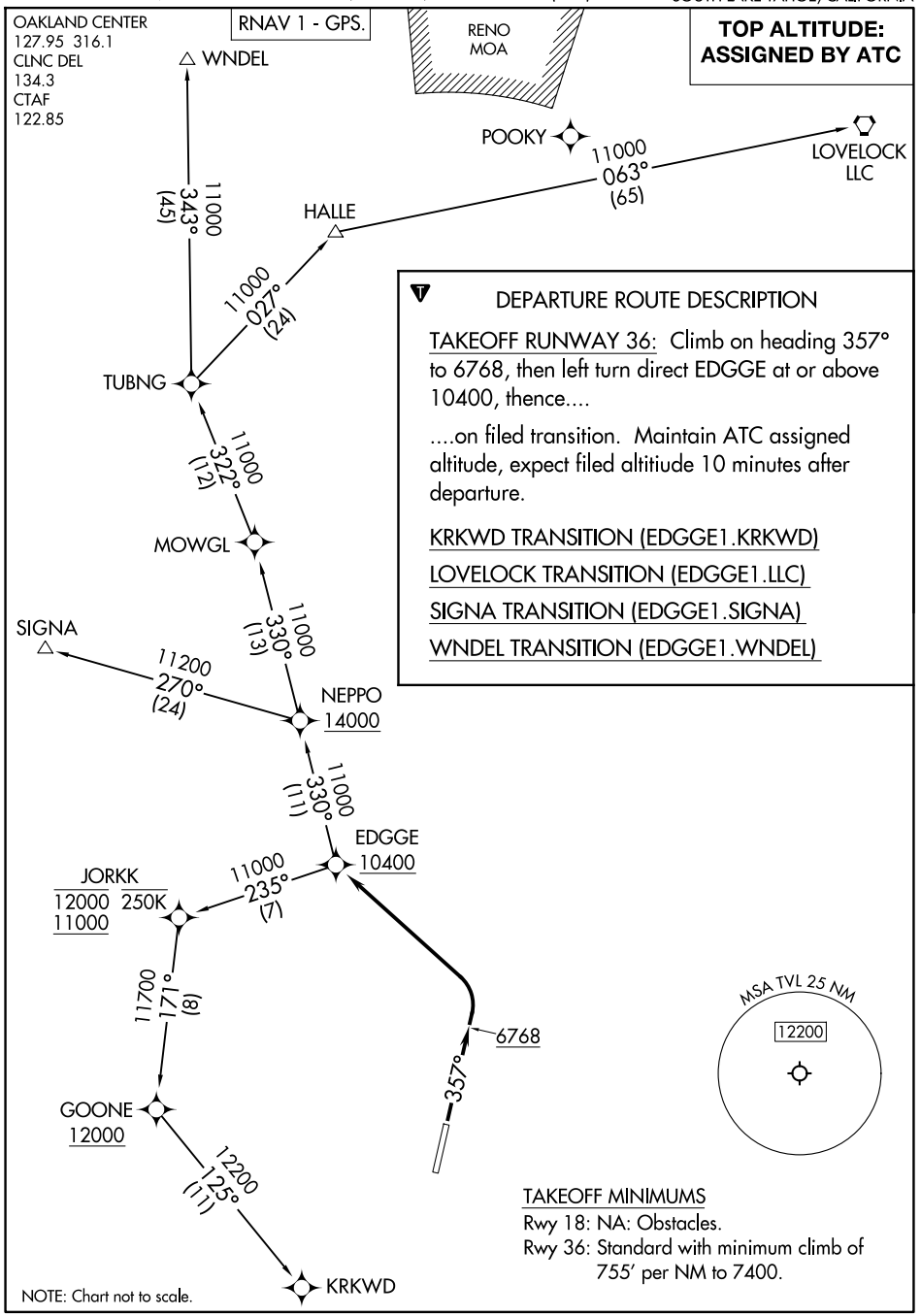
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM
26190

SOUTH LAKE TAHOE, CALIFORNIA
LAKE TAHOE (TVL)

EDGGE ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 36: Climb on heading 357° to 6768, then left turn direct EDGGE at or above 10400, thence....

....on filed transition. Maintain ATC assigned altitude, expect filed altitiude 10 minutes after departure.

KRKWD TRANSITION (EDGGE1.KRKWD)
LOVELOCK TRANSITION (EDGGE1.LLC)
SIGNA TRANSITION (EDGGE1.SIGNA)
WNDEL TRANSITION (EDGGE1.WNDEL)

TAKEOFF MINIMUMS

Rwy 18: NA: Obstacles.
Rwy 36: Standard with minimum climb of 755' per NM to 7400.

EDGGE ONE DEPARTURE (RNAV)

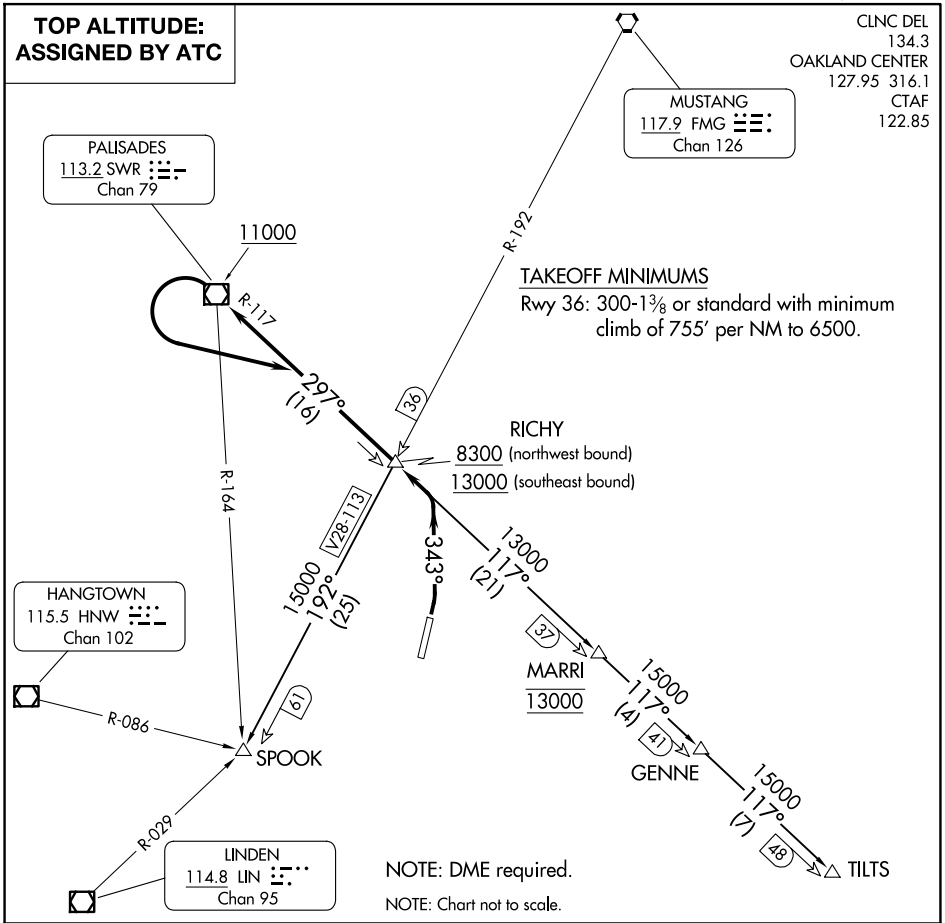
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(RICHY7.SWR) 23334

RICHY SEVEN DEPARTURE

AL-5416 (FAA)

LAKE TAHOE (TVL)
SOUTH LAKE TAHOE, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 36: Climbing left turn on heading 343° to intercept the SWR VOR/DME R-117 northwest bound. Cross RICHY/SWR 16 DME at or above 8300, cross SWR at or above 11000. Thence. . . .

. . . .on assigned route (Aircraft cleared on a transition turn left to intercept the SWR R-117 southeast bound to cross RICHY at or above 13000). Maintain ATC assigned altitude.

GENNE TRANSITION (RICHY7.GENNE): From over RICHY INT on SWR R-117 to GENNE.

MARRI TRANSITION (RICHY7.MARRI): From over RICHY INT on SWR R-117 to MARRI.

SPOOK TRANSITION (RICHY7.SPOOK): From over RICHY INT on FMG R-192 to SPOOK INT.

TILTS TRANSITION (RICHY7.TILTS): From over RICHY INT on SWR R-117 to TILTS.

ILS or LOC RWY 29R

STOCKTON METRO (SCK)

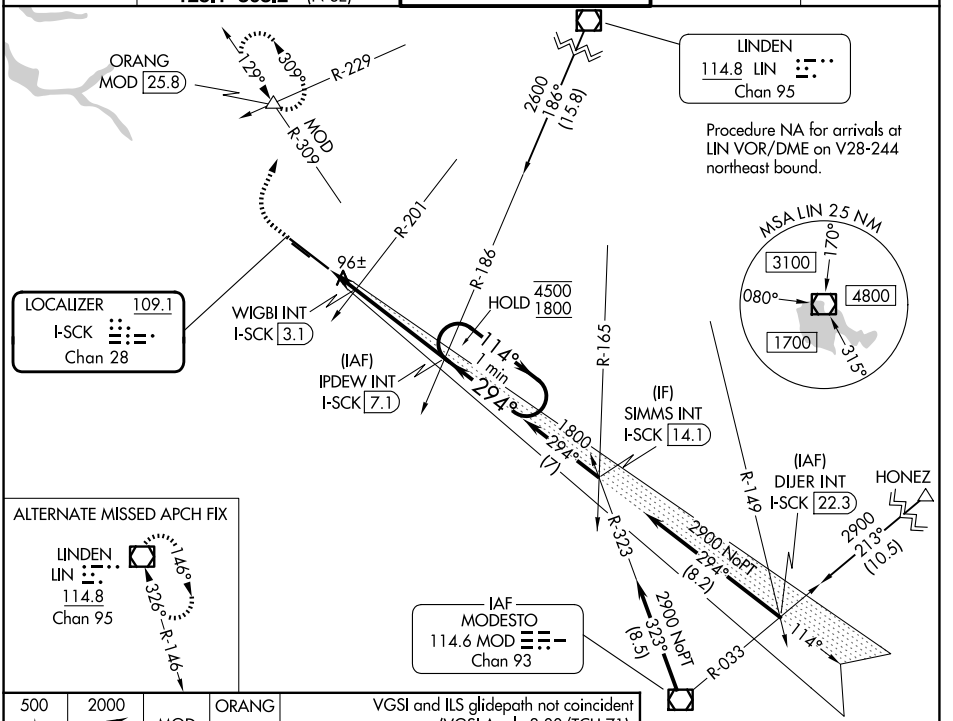
LOC/DME I-SCK	APP CRS	Rwy Ldg	8650
109.1	294°	TDZE	32
Chan 28		Apt Elev	33

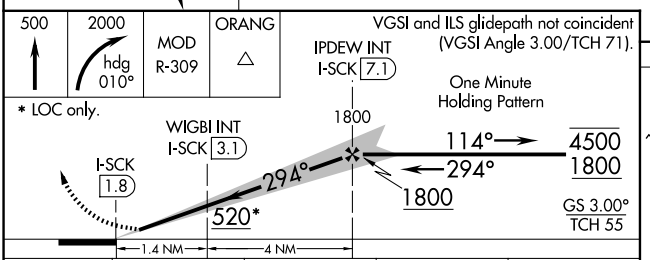
T A For inop ALS, increase S-LOC 29R Cat C/D visibility to 1⅜ SM.
RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR A5

MISSED APPROACH: Climb to 500 then climbing right turn to 2000 on heading 010° and MOD VOR/DME R-309 to ORANG INT/MOD 25.8 DME and hold.

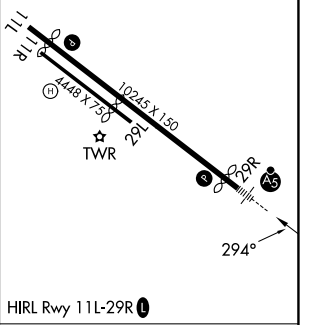
ATIS	NORCAL APP CON	STOCKTON TOWER ★	GND CON	UNICOM
118.25	123.85 278.3 (SE-NW) 125.1 363.2 (N-SE)	120.3 (CTAF) L 239.0	121.9	122.95





CATEGORY	A	B	C	D
S-ILS 29R #	232/24 200 (200-½)			
S-LOC 29R	520/24 488 (500-½)		520/50 488 (500-1)	
CIRCLING	520-1 487 (500-1)	540-1 507 (600-1)	640-1¾ 607 (700-1¾)	640-2 607 (700-2)
WIGBI FIX MINIMUMS (DUAL VOR RECEIVERS or DME REQUIRED)				
S-LOC 29R	360/24 328 (400-½)		360/26 328 (400-½)	
CIRCLING	500-1 467 (500-1)	540-1 507 (600-1)	640-1¾ 607 (700-1¾)	640-2 607 (700-2)

ELEV 33 D TDZE 32



HIRL Rwy 11L-29R L

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

STOCKTON, CALIFORNIA AL-407 (FAA) 25331

ILS RWY 29R (SA CAT II)

STOCKTON METRO (SCK)

LOC/DME I-SCK	APP CRS	Rwy Ldg	8650
109.1	294°	TDZE	32
Chan 28		Apt Elev	33

T A Reduced lighting: requires specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown. Procedure NA when tower closed.

MALSR (A5)

MISSED APPROACH: Climb to 500 then climbing right turn to 2000 on heading 010° and MOD VOR/DME R-309 to ORANG INT/MOD 25.8 DME and hold.

ATIS	NORCAL APP CON	STOCKTON TOWER ★	GND CON	UNICOM
118.25	123.85 278.3 (SE-NW) 125.1 363.2 (N-SE)	120.3 (CTAF) L 239.0	121.9	122.95

LINDEN 114.8 LIN Chan 95

Procedure NA for arrivals at LIN VOR/DME on V28-244 northeast bound.

ORANG MOD 25.8

129° 309° R-229 2600 186° (15.8) MOD R-309

R-186 R-165 R-149

96±

HOLD 4500 1800 114° 1 min 294°

LOCALIZER 109.1 I-SCK Chan 28

(IAF) IPDEW INT I-SCK 7.1

1800 294° (7)

(IF) SIMMS INT I-SCK 14.1

(IAF) DIJER INT I-SCK 22.3

HONEZ

2900 NoPT 294° (8.2)

2900 213° (10.5)

R-323 2900 NoPT 323° (8.5) R-033 114°

IAF MODESTO 114.6 MOD Chan 93

MSA LIN 25 NM 170° 3100 080° 4800 1700 315°

ALTERNATE MISSED APCH FIX

LINDEN LIN 114.8 Chan 95 146° 326° R-146

ELEV 33 D TDZE 32

11L 11R 29L 29R TWR 10245 X 150 4448 X 75

500	2000	MOD	ORANG
	hdg 010°	R-309	△

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 71).

IPDEW INT I-SCK 7.1

One Minute Holding Pattern

1800 114° 4500 1800 294° 294° 1800

GS 3.00° TCH 55

1065' 5.4 NM

CATEGORY	A	B	C	D
S-ILS 29R	RA 105/12 100 DA 132			

SA CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL Rwy 11L-29R L

STOCKTON, CALIFORNIA Amdt 22A 05DEC19

37°54'N-121°14'W

STOCKTON METRO (SCK)

ILS RWY 29R (SA CAT II)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	8650
CH 72910	114°	TDZE	29
W11A		Apt Elev	33

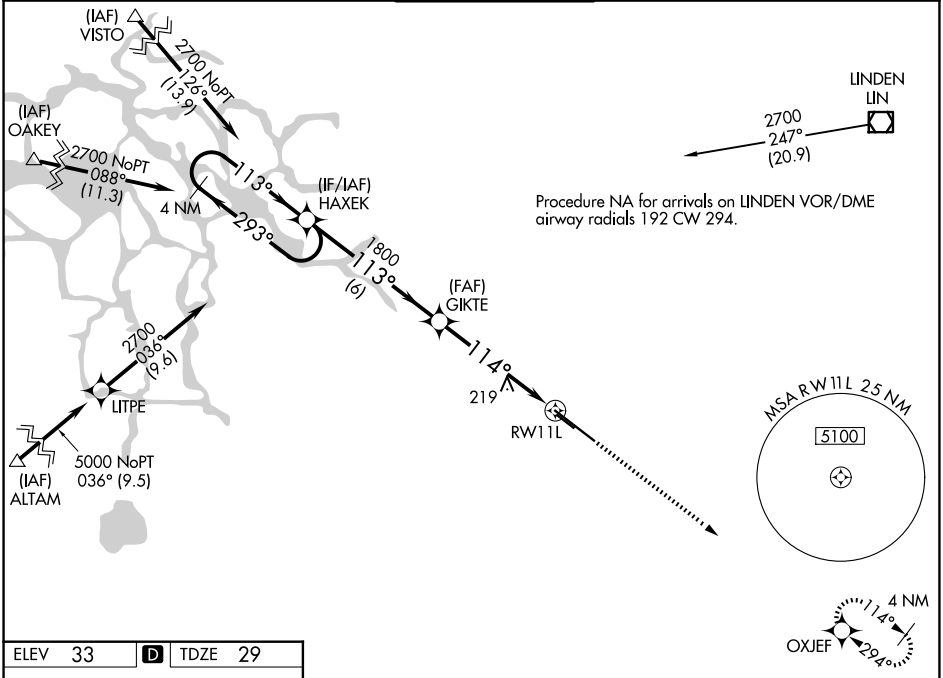
RNAV (GPS) RWY 11L

STOCKTON METRO (SCK)

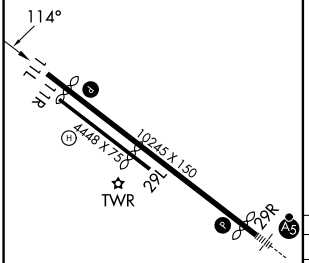
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C (25°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2000 direct OXJEF and hold.

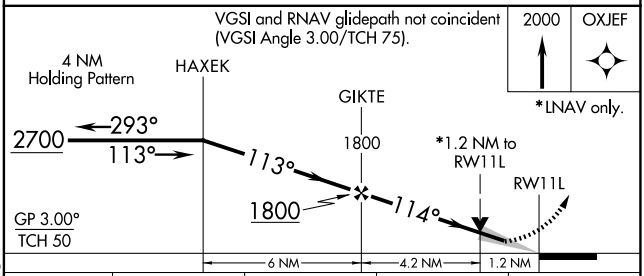
ATIS	NORCAL APP CON	STOCKTON TOWER★	GND CON	UNICOM
118.25	123.85 278.3 (SE-NW) 125.1 363.2 (N-SE)	120.3 (CTAF) L 239.0	121.9	122.95



ELEV 33 D TDZE 29



HIRL Rwy 11L-29R L



CATEGORY	A	B	C	D
LPV DA	229-¾ 200 (200-¾)			
LNAV/VNAV DA	471-1½ 442 (500-1½)			
LNAV MDA	480-1 451 (500-1)		480-1⅜ 451 (500-1⅜)	
CIRCLING	500-1 467 (500-1)	540-1 507 (600-1)	640-1¾ 607 (700-1¾)	640-2 607 (700-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

STOCKTON, CALIFORNIA AL-407 (FAA) 25331

WAAS	APP CRS	Rwy Ldg	8650
CH 87010	294°	TDZE	32
W29A		Apt Elev	33

RNAV (GPS) RWY 29R

STOCKTON METRO (SCK)

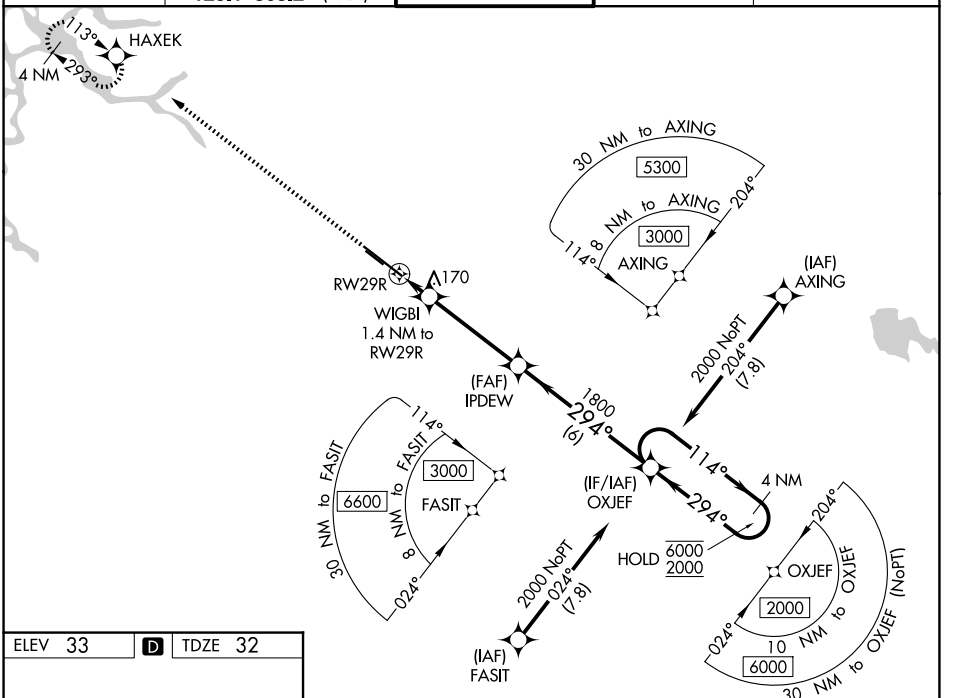
RNP APCH.

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C. For inop ALS, increase LNAV/VNAV visibility all Cats to RVR 4500. #RVR 1800 authorized with use of FD or AP or HUD to DA.

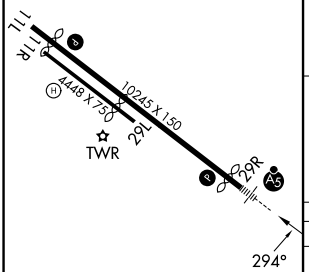
MALSR

MISSED APPROACH: Climb to 2700 direct HAXEK and hold.

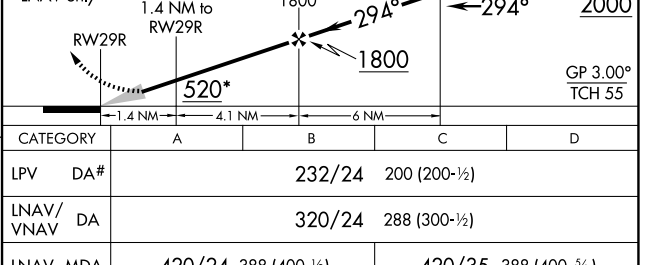
ATIS	NORCAL APP CON	STOCKTON TOWER★	GND CON	UNICOM
118.25	123.85 278.3 (SE-NW) 125.1 363.2 (N-SE)	120.3 (CTAF) L 239.0	121.9	122.95



ELEV 33 D TDZE 32



HIRL Rwy 11L-29R L



CATEGORY	A	B	C	D
LPV DA#	232/24 200 (200-½)			
LNAV/VNAV DA	320/24 288 (300-½)			
LNAV MDA	420/24 388 (400-½)		420/35 388 (400-⅝)	
CIRCLING	500-1 467 (500-1)	540-1 507 (600-1)	640-1¾ 607 (700-1¾)	640-2 607 (700-2)

STOCKTON, CALIFORNIA
Amdt 2 20JUN19

37°54′N-121°14′W

STOCKTON METRO (SCK)

RNAV (GPS) RWY 29R

SW-2, 09 JUL 2026 to 03 SEP 2026

Not for Part 121/Part 380 Air Carrier
Use or Foreign Air Carrier
Equivalent: RWY 11R-29L.
JANUARY 2010
ANNUAL RATE OF CHANGE
0.1° W
VAR 14° E
121°14'W
121°15'W
37°54'N
37°53'N
CARGO APRON
TERMINAL APRON
TERMINAL
GA PARKING
FBO
FIRE STATION
REMOTE TRANSMITTER RECEIVER (RTR)
TWR
RADAR ANTENNA
MILITARY HELIPAD/TAXIWAY
CALIFORNIA ARMY NATIONAL GUARD
10245 X 150
4448 X 75
HS 1
H1
114°
294°
ELEV 26
FIELD ELEV 33
ILS HOLD
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
ATIS
118.25
STOCKTON TOWER *
120.3 239.0
GND CON
121.9
RWY 11L-29R
PCR 579 F/D/X/T
S-40, D-150, 2D-360, 2D/2D2-650
RWY 11R-29L
PCR 213 F/C/X/T
S-12.5

SUSANVILLE, CALIFORNIA | AL-9479 (FAA) | 26190

APP CRS	Rwy Ldg	4051
297°	TDZE	4146
	Apt Elev	4149

RNAV (GPS) RWY 29

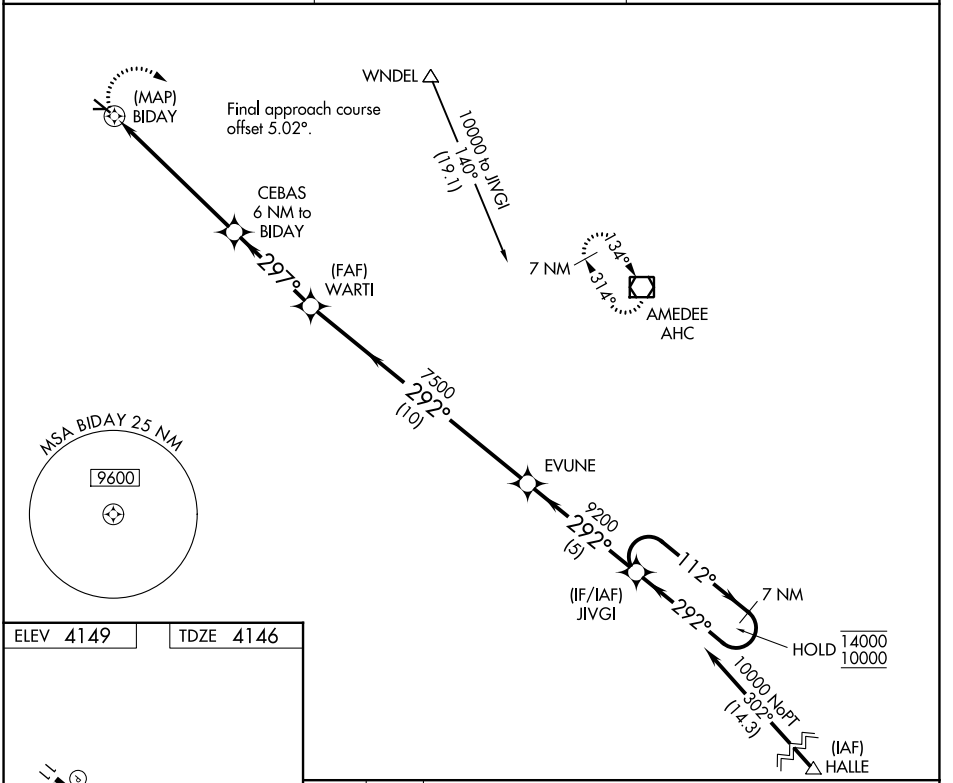
SUSANVILLE MUNI (SVE)

RNP APCH - GPS.

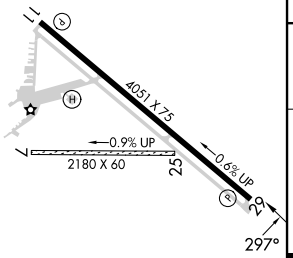
Rwy 29 helicopter visibility reduction below 1 SM NA. Circling NA for Cat D south of Rwy 11-29. Circling NA to Rwys 7 and 25. When local altimeter setting not received, use RTS altimeter setting and increase all MDA 260 feet. -15°C

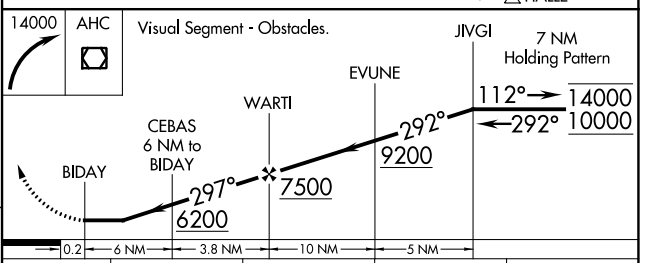
MISSED APPROACH: Climbing right turn to 14000 direct AHC VOR/DME and hold, continue climb-in-hold to 14000.

AWOS-3	OAKLAND CENTER	UNICOM
133.8	128.8 285.5	122.8 (CTAF)



ELEV 4149 | TDZE 4146





CATEGORY	A	B	C	D
LNAV MDA	5760-1¼ 1614 (1700-1¼)	5760-1½ 1614 (1700-1½)	5760-3	1614 (1700-3)
CIRCLING	5760-1¼ 1611 (1700-1¼)	5760-1½ 1611 (1700-1½)	5780-3 1631 (1700-3)	6060-3 1911 (2000-3)

MIRL Rwy 11-29

SUSANVILLE, CALIFORNIA
Amdt 1D 09JUL26

40°23'N-120°34'W

SUSANVILLE MUNI (SVE)
RNAV (GPS) RWY 29

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	N/A
142°	TDZE	N/A
	Apt Elev	4149

RNAV (GPS)-A

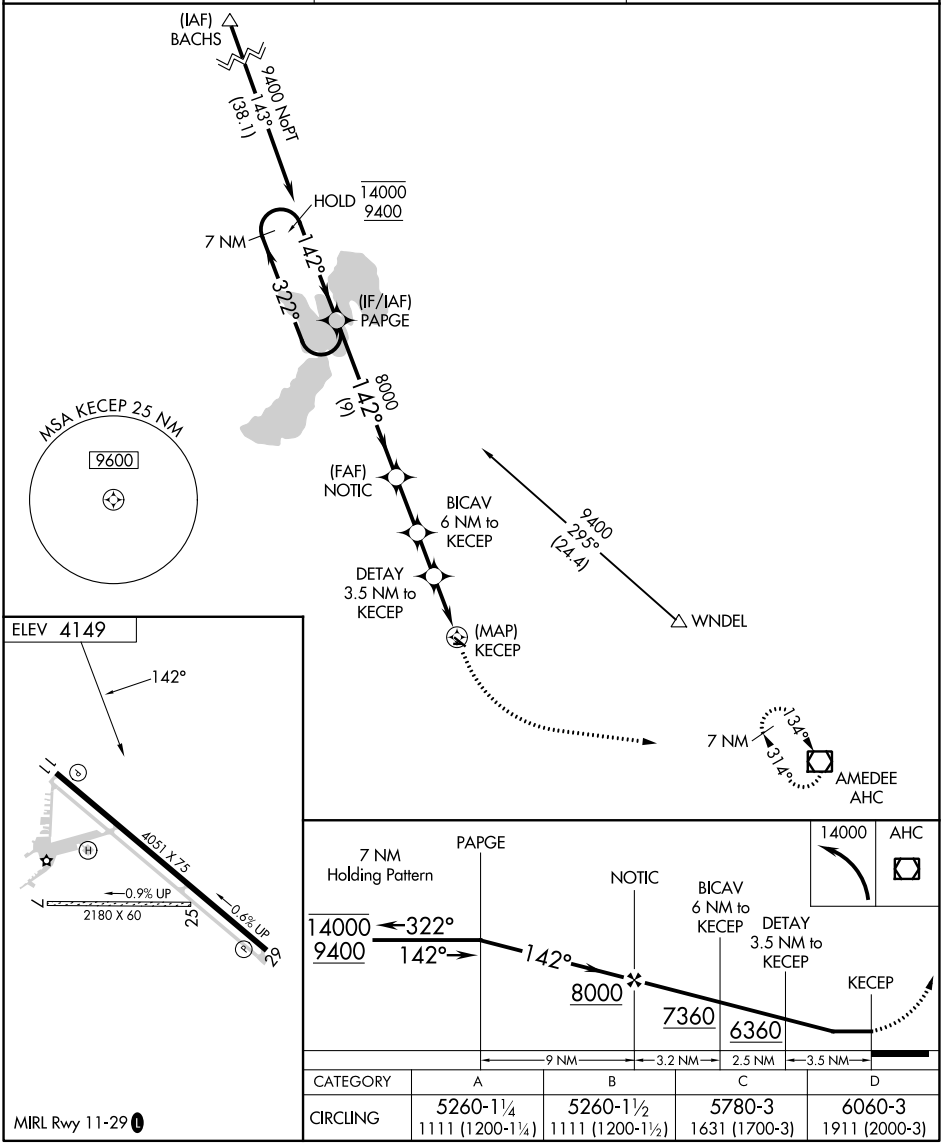
SUSANVILLE MUNI (SVE)

RNP APCH - GPS.

When local altimeter setting not received, procedure NA.
NA Circling NA for Cat D south of Rwy 11-29.
-15°C Circling NA to Rwys 7 and 25.

MISSED APPROACH: Climbing left turn to 14000 direct AHC VOR/DME and hold, continue climb-in-hold to 14000.

AWOS-3	OAKLAND CENTER	UNICOM
133.8	128.8 285.5	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	5260-1¼ 1111 (1200-1¼)	5260-1½ 1111 (1200-1½)	5780-3 1631 (1700-3)	6060-3 1911 (2000-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

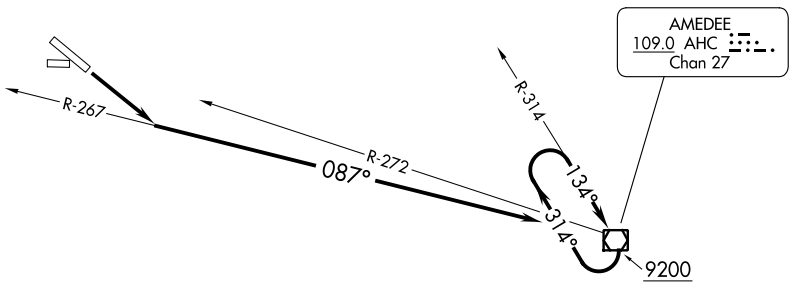
(AHC2.AHC) 26190

AMEDEE TWO DEPARTURE (OBSTACLE)

AL-9479 (FAA)

SUSANVILLE MUNI (SVE)
SUSANVILLE, CALIFORNIA

OAKLAND CENTER
128.8 285.5
CTAF
122.8

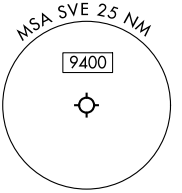


TAKEOFF MINIMUMS

Rwys 7, 25, 29: NA - Obstacles.
Rwy 11: Standard with minimum climb of 410'/NM to 6000, or 3100-3 for VCOA.

TAKEOFF OBSTACLE NOTES

Rwy 11, Takeoff Minimums Obstacles: Vegetation 2.1 NM from DER extending to 2.6 NM from DER, right of centerline, up to 4782' MSL, 660' above DER.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb on AHC VOR/DME R-267 to AHC VOR/DME thence. . . .

VCOA RUNWAY 11: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Susanville Muni Airport eastbound at or above 7200, then on AHC VOR/DME R-272 to AHC, thence. . . .

. . . .cross AHC VOR/DME at or above 9200'. Climb in AHC VOR/DME holding pattern to depart AHC VOR/DME at or above 14000 before proceeding on course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS CH 49200 W12A	APP CRS 116°	Rwy Ldg 4001 TDZE 193 Apt Elev 194

RNAV (GPS) RWY 12

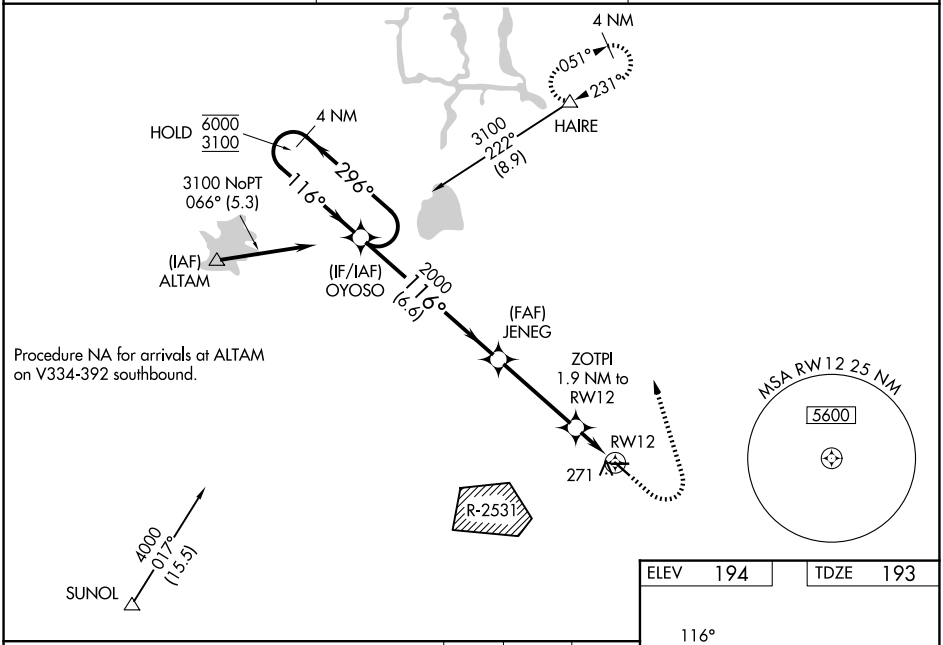
TRACY MUNI (TCY)

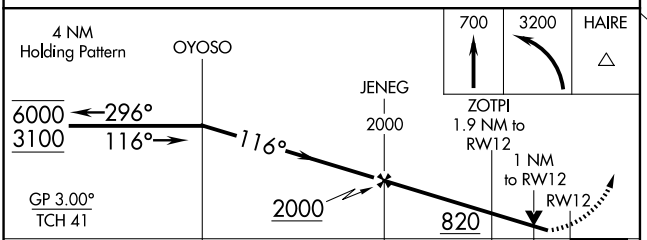
RNP APCH - GPS.

Rwy 12 helicopter visibility reduction below ¾ SM NA. Circling NA southwest of Rwy 12-30. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. Baro-VNAV and VDP NA when using SCK altimeter setting. When local altimeter setting not received, use SCK altimeter setting and increase LPV DA to 503 feet and all visibilities ⅛ SM. Increase LNAV/VNAV DA to 507 feet and all visibilities ⅛ SM. Increase all MDAs 60 feet and LNAV visibility Cat C ⅛ SM.

MISSED APPROACH: Climb to 700 then climbing left turn to 3200 direct HAIRE and hold, continue climb-in-hold to 3200.

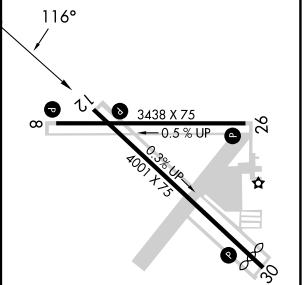
AWOS-3	NORCAL APP CON	UNICOM
118.375	123.85 278.3	123.075 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	443-¾	250 (300-¾)		NA
LNAV/VNAV DA	447-¾	254 (300-¾)		NA
LNAV MDA	540-1	347 (400-1)		NA
CIRCLING	580-1 386 (400-1)	660-1 466 (500-1)	660-1½ 466 (500-1½)	NA

ELEV 194 TDZE 193



MIRL Rwys 8-26 and 12-30 L
REIL Rwys 8, 12, 26 and 30 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

TRACY, CALIFORNIA | AL-5815 (FAA) | 26162

RNAV (GPS) RWY 26

TRACY MUNI (TCY)

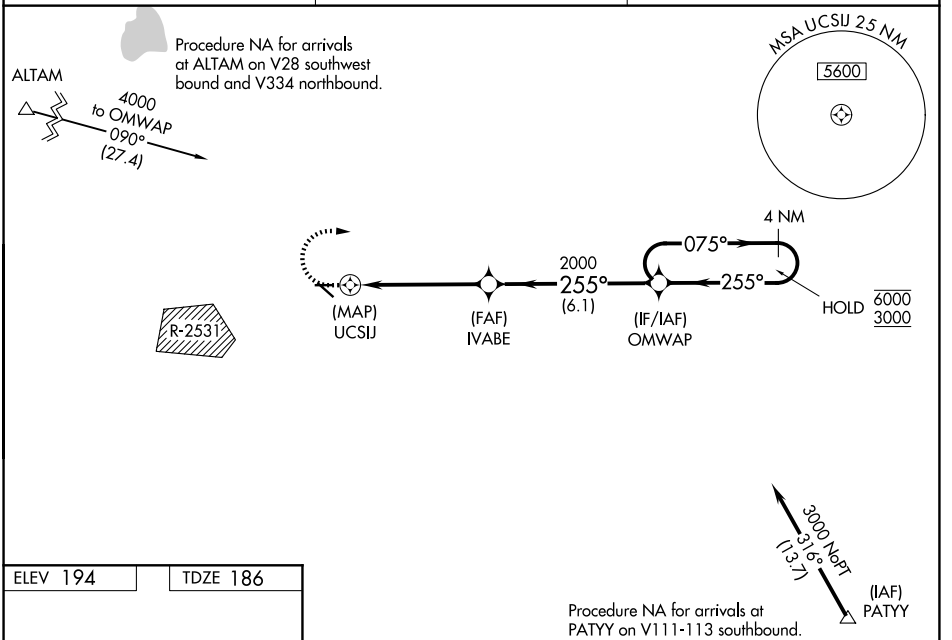
WAAS	APP CRS	Rwy Ldg	3438
CH 49040	255°	TDZE	186
W26A		Apt Elev	194

RNP APCH - GPS.

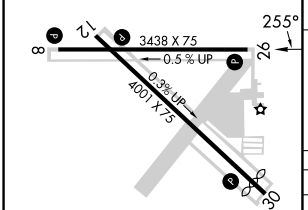
T A Rwy 26 helicopter visibility reduction below ¾ SM NA. Circling NA southwest of Rwy 12-30. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. Baro-VNAV NA when using SCK altimeter setting. When local altimeter setting not received, use SCK altimeter setting and increase LPV DA to 496 feet and all visibilities ⅛ SM. Increase LNAV/VNAV DA to 553 feet and all visibilities ⅛ SM. Increase all MDAs 60 feet and LNAV visibility Cat C ¼ SM.

MISSED APPROACH: (Do not exceed 210K until OMWAP) Climb to 640 then climbing right turn to 3000 direct OMWAP and hold, continue climb-in-hold 3000.

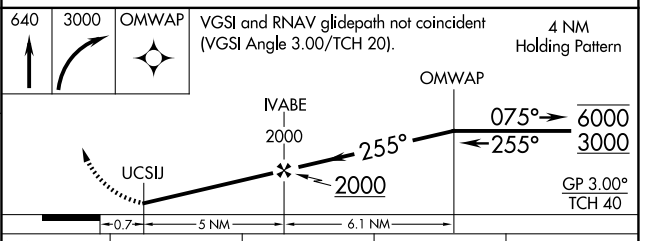
AWOS-3	NORCAL APP CON	UNICOM
118.375	123.85 278.3	123.075 (CTAF) L



ELEV 194 | TDZE 186



MIRL Rwys 8-26 and 12-30 L
REIL Rwys 8, 12, 26 and 30 L



CATEGORY	A	B	C	D
LPV DA	436-¾ 250 (300-¾)			NA
LNAV/VNAV DA	493-⅞ 307 (300-⅞)			NA
LNAV MDA	540-1 354 (400-1)		580-1⅛ 394 (400-1⅛)	NA
CIRCLING	580-1 386 (400-1)	660-1 466 (500-1)	660-1½ 466 (500-1½)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	3740
CH 69201	297°	TDZE	193
W30A		Apt Elev	193

RNAV (GPS) RWY 30

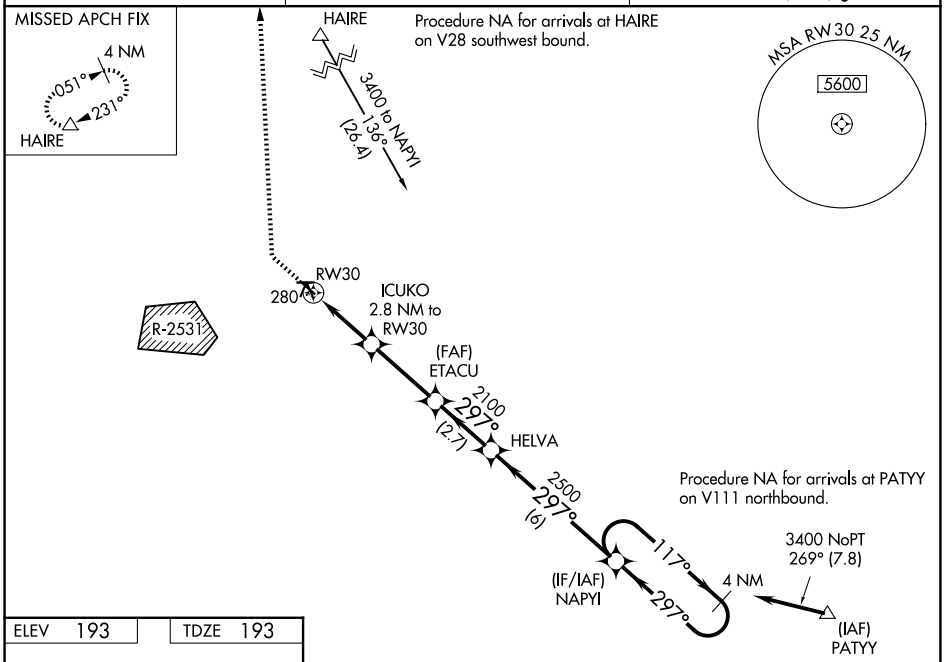
TRACY MUNI (TCY)

RNP APCH

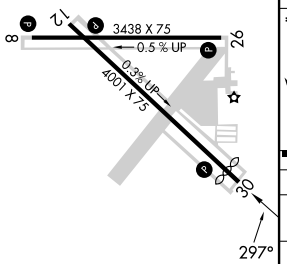
Baro-VNAV NA when using Stockton altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. Circling NA southwest of Rwy 12-30. Straight-In Rwy 30 NA at night, Circling Rwy 30 NA at night. Rwy 30 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Stockton altimeter setting; increase all DAs to 507 feet; increase all MDAs 60 feet and visibility LNAV Cat C 1⅛ SM.

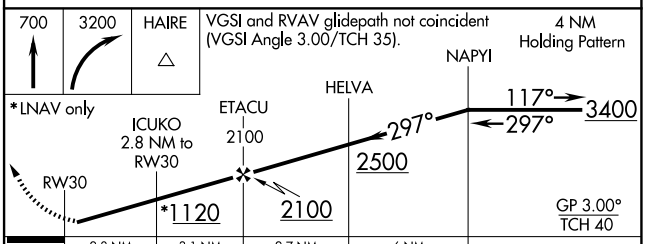
MISSED APPROACH: Climb to 700 then climbing right turn to 3200 direct HAIRE and hold, continue climb-in-hold to 3200.

AWOS-3	NORCAL APP CON	UNICOM
118.375	123.85 278.3	123.075 (CTAF) L



ELEV 193 TDZE 193





CATEGORY	A	B	C	D
LPV DA	447-1 254 (300-1)			NA
LNAV/VNAV DA	443-1 250 (300-1)			NA
LNAV MDA	540-1 347 (400-1)			NA
CIRCLING	580-1 387 (400-1)	660-1 467 (500-1)	660-1½ 467 (500-1½)	NA

MIRL Rwys 8-26 and 12-30 L
REIL Rwys 8, 12, 26 and 30 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

TRACY, CALIFORNIA | AL-5815 (FAA) | 26078

VOR/DME MOD	APP CRS	Rwy Ldg	3438
114.6	263°	TDZE	186
Chan 93		Apt Elev	193

VOR RWY 26

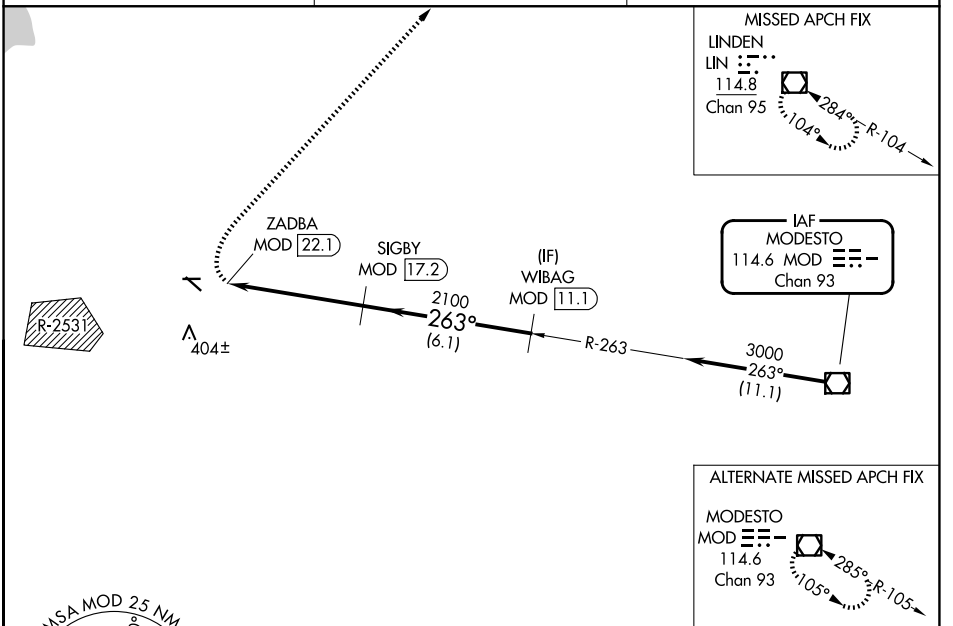
TRACY MUNI (TCY)

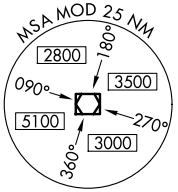
DME required.

Circling NA southwest of Rwy 12-30. Circling Rwy 30 NA at night. Rwy 26 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Stockton altimeter setting: increase all MDAs 60 feet and visibility Cat C ⅛ SM.

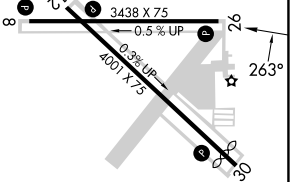
MISSED APPROACH: Climbing right turn to 3000 direct LIN VOR/DME and hold.

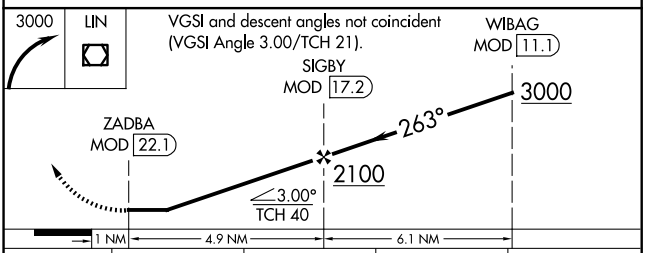
AWOS-3	NORCAL APP CON	UNICOM
118.375	123.85 278.3	123.075 (CTAF) L





ELEV 193 | TDZE 186





CATEGORY	A	B	C	D
S-26	760-1¼ 574 (600-1¼)		760-1⅝ 574 (600-1⅝)	NA
CIRCLING	760-1¼ 567 (600-1¼)		760-1⅝ 567 (600-1⅝)	NA

MIRL Rwys 8-26 and 12-30 L
REIL Rwys 8, 12, 26 and 30 L

TRACY, CALIFORNIA
Amdt 1A 07NOV19

37°41′N-121°26′W

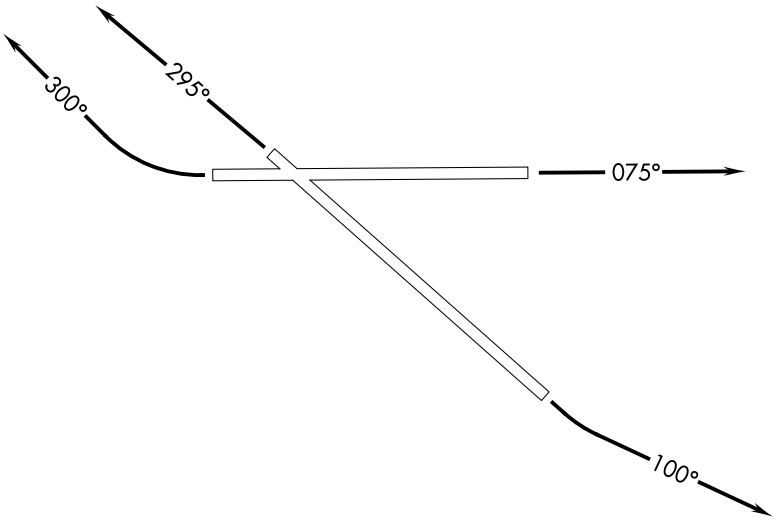
TRACY MUNI (TCY)
VOR RWY 26

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

TOP ALTITUDE: ASSIGNED BY ATC

RADAR required.

NORCAL DEP CON
123.85 278.3



TAKEOFF MINIMUMS
Rwys 8, 12, 30: Standard.
Rwys 26: Standard with a minimum climb of 310' per NM to 1300.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb on heading 075° , or as assigned by ATC between 275° CW 110°.

TAKEOFF RUNWAY 12: Climbing left turn on heading 100°, or as assigned by ATC between 297° CW 110°.

TAKEOFF RUNWAY 26: Climbing right turn on heading 300°, or as assigned by ATC between 300° CW 074°.

TAKEOFF RUNWAY 30: Climb on heading 295°, or as assigned by ATC between 290° CW 110°.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

FAIRFIELD, CALIFORNIA

ILS or LOC or RNAV (GPS) RWY 21L

TRAVIS AFB (KSUU)

[USAF]

SBAS	APCH CRS	Rwy ldg 10,995
Chan 62106	215°	TDZE 58
W21A		Arpt Elev 63

RNP APCH. RNAV1 - GPS or RADAR required for ILS, LOC.

RADAR required for CAT E aircraft for full procedure off of SEATO.

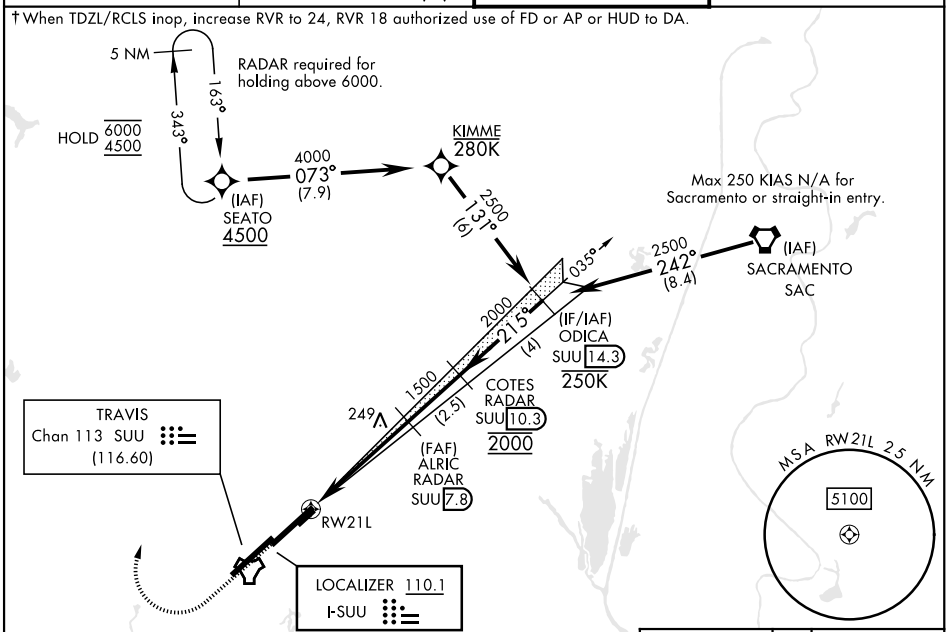
T * When ALS inop, increase RVR to 40, vis to ¾ miles.
** When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1⅜ miles.
***Circling not authorized NW of Rwy 3L-21R.

ALSF-2

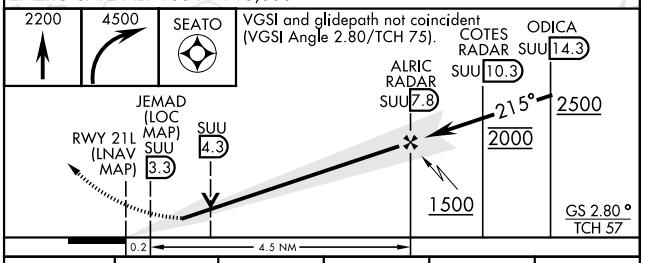
MISSED APPROACH: Climb to 2200 then climbing right turn to 4500 direct SEATO and hold, continue climb in hold to 4500.

ATIS	APP CON	TOWER	GND CON
135.55 292.125	119.9 322.325 (S) 126.6 281.45 (N)	120.75 254.4	121.8 289 4

† When TDZL/RCLS inop, increase RVR to 24, RVR 18 authorized use of FD or AP or HUD to DA.

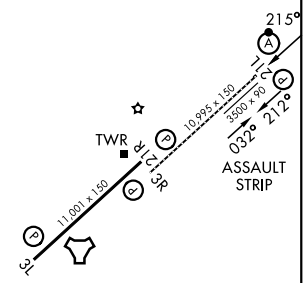


EMERG SAFE ALT 100 NM 13,000



CATEGORY	A	B	C	D	E
S-ILS 21L*†	258/18		200	(200-½)	
LPV DA*†	258/18		200	(200-½)	
S-LOC 21L**	500/24 442 (500-½)		500/45 442 (500-⅞)		
LNAV MDA**	500/24 442 (500-½)		500/45 442 (500-⅞)		
CIRCLING***	560-1 497 (500-1)	660-1 597 (600-1)	1100-3 1037(1100-3)	1200-3 1137 (1200-3)	

ELEV 63 TDZE 58



HIRL Rwy 3L-21R, 3R-21L
TDZL/RCLS Rwy 3R, 21L

FAF to MAP 4.5 NM

Knots	60	90	120	150	180
Min:Sec	4:30	3:00	2:15	1:48	1:30

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

FAIRFIELD, CALIFORNIA

ILS RWY 21L (CAT II)

TRAVIS AFB (KSUU)

LOC I-SUU	APCH CRS	Rwy ldg 10,995 / TDZE 58 / Arpt Elev 63
110.1	215°	[USAF]

RNAV1 - GPS or RADAR required

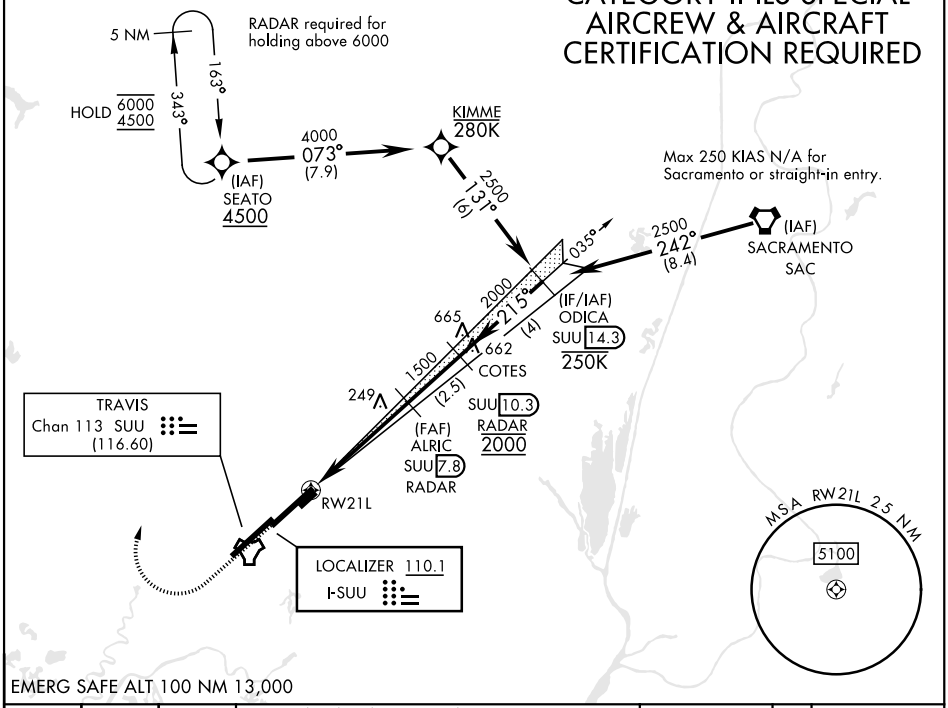
RADAR required for CAT E aircraft for full procedure off of SEATO.

ALSF-2

MISSED APPROACH: Climb to 2200 then climbing right turn to 4500 direct SEATO and hold, continue climb in hold to 4500.

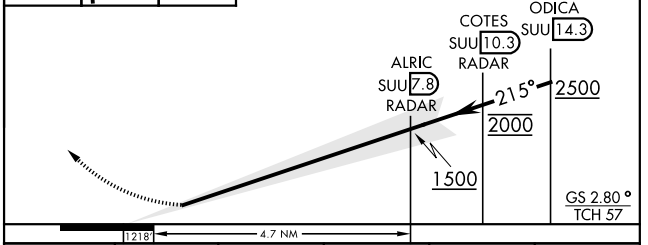
ATIS	APP CON	TOWER	GND CON
135.55 292.125	119.9 322.325 (S) 126.6 281.45 (N)	120.75 254.4	121.8 289 4

CATEGORY II ILS SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



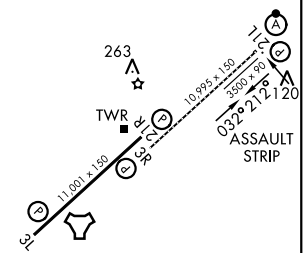
2200 | 4500 | SEATO

VGSI and glidepath not coincident (VGSI Angle 2.80/TCH 75).



CATEGORY	A	B	C	D	E
S-ILS 21L	RA 83/12	100	DA 158		

ELEV 63 | TDZE 58



HIRL Rwy 3L-21R, 3R-21L
TDZL/RCLS Rwy 3R, 21L

FAIRFIELD, CALIFORNIA 38°16'N-121°55'W TRAVIS AFB (KSUU)

Orig 19MAY22

ILS RWY 21L (CAT II)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

FAIRFIELD, CALIFORNIA

RNAV (GPS) RWY 03R

WAAS CH **98057** **W03B**	APCH CRS **035°**	Rwy ldg **10,995** TDZE **59** Arpt Elev **63**

(USAF) TRAVIS AFB (KSUU)

RNP APCH

* Circling NA NW of RWY 3L-21R.

MISSED APPROACH: Climb to 4500 direct FOLNO, track 308° to SEATO and hold, continue climb-in-hold to 4500.

ATIS	APP CON	TOWER	GND CON
135.55 292.125	**119.9 322.325** (S) **126.6 281.45** (N)	**120.75 254.4**	**121.8 289.4**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

5 NM 163° 343° SEATO

RADAR required when holding above 6000.

308° (10.9) FOLNO

199

RW03R

WUSMO

(FAF) LUDEC 035° 253 427

HEIDY 2500 1900 (3) 306

1159 2500 036° (6.5)

(IF/IAF) HABAL 3000

MSA RW03R 25 NM 5100

EMERG SAFE ALT 100 NM 12,600

4500 | FOLNO | tr 308° | SEATO

ELEV 63 TDZE 59

HABAL 3000 036° HEIDY 2500 LUDEC 035° WUSMO 1.3 NM to RW03R RW03R

1900 900

GP 3.00° TCH 50

VGSI and RNAV glidepath not coincident (VGSI angle 2.50°/TCH 69)

3.1 NM 2.5 NM

BCN TWR 209 10,995 x 150 3500 x 90 212° 032° 035° 11,001 x 150 ASSAULT STRIP

CATEGORY	A	B	C	D	E
LPV DA	259/40		200	(200-¾)	
LNAV/VNAV DA	340/45 281 (300-⅞)	351/45 292 (300-⅞)	359/45 300 (300-⅞)	370/45 311 (400-⅞)	
LNAV MDA	460/55 401 (400-1)		460/60	401 (400-1⅛)	
CIRCLING*	560-1 497 (500-1)	660-1 597 (600-1)	1100-3 1037 (1100-3)	1200-3 1137 (1200-3)	

HIRL Rwys 3L-21R and 3R-21L
TDZL/RCLS Rwys 3R and 21L

FAIRFIELD, CALIFORNIA 38°16'N - 121°55'W TRAVIS AFB (KSUU)

Orig 27JAN22

RNAV (GPS) RWY 03R

SW-2, 09 JUL 2026 to 03 SEP 2026

FAIRFIELD, CALIFORNIA

TACAN RWY 21L

TACAN	APCH CRS	Rwy Idg	10,995
SUU		TDZE	58
Chan 113	213°	Arpt Elev	63

[USAF] TRAVIS AFB (KSUU)

* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile, CAT CDE vis to 1⅜ miles.
** Circling not authorized NW of Rwy 3L-21R.

ALSF-2

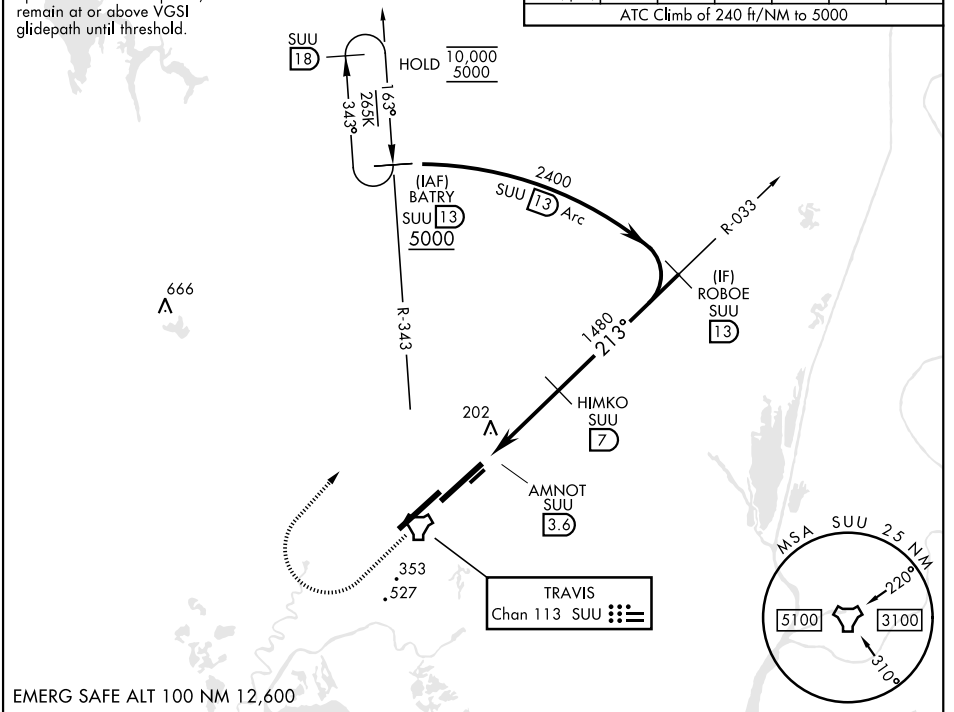
MISSED APPROACH: Climb to 2300 then climbing right turn to 5000 on heading 028° and SUU TACAN R-343 to BATRY/13 DME and hold.

ATIS	APP CON	TOWER	GND CON
135.55 292.125	119.9 322.325 (S) 126.6 281.45 (N)	120.75 254.4	121.8 289 4

Knots	60	120	180	240	300	360
V/V(fpm)	240	480	720	960	1200	1440

ATC Climb of 240 ft/NM to 5000

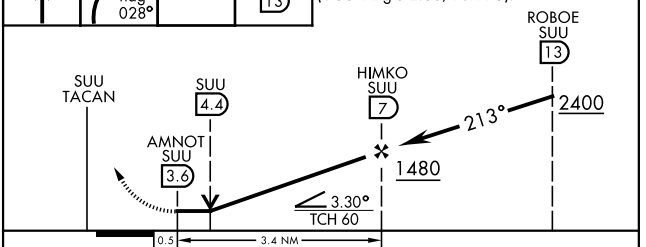
When circling to Rwy 3L at night, operational VGSI required, remain at or above VGSI glidepath until threshold.



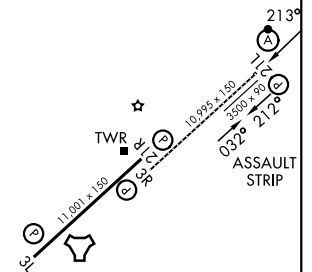
EMERG SAFE ALT 100 NM 12,600

2300 | 5000 hdg 028° | SUU R-343 | BATRY SUU 13

VGSI and descent angles not coincident (VGSI Angle 2.80/TCH 75).



ELEV 63 TDZE 58



CATEGORY	A	B	C	D	E
S-21L*	500/24 442 (500-½)		500/45 442 (500-⅞)		
CIRCLING**	560-1 497 (500-1)	660-1 597 (600-1)	840-2¼ 777 (800-2¼)	1200-3 1137 (1200-3)	

HIRL Rwy 3L-21R, 3R-21L
TDZL/RCLS Rwy 3R, 21L

FAIRFIELD, CALIFORNIA 38°16'N-121°55'W TRAVIS AFB (KSUU)

Amdt 1 07AUG25

TACAN RWY 21L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26190

AIRPORT DIAGRAM

TRAVIS AFB (KSUU)

[USAF]

FAIRFIELD, CALIFORNIA

AIRPORT DIAGRAM

FAIRFIELD, CALIFORNIA

TRAVIS AFB (KSUU)

SW-2, 09 JUL 2026 to 03 SEP 2026

BESSA TWO DEPARTURE (RNAV) (BESSA2.BESSA)

Rwy	Knots	60	120	180	240	300	360
*3R Ⓓ	V/V(fpm)	201	402	603	804	1005	1206
†3R Ⓑ	V/V(fpm)	295	590	885	1180	1475	1770
†3L Ⓑ	V/V(fpm)	299	598	897	1196	1495	1794
*21L/R Ⓒ	V/V(fpm)	220	440	660	880	1100	1320
†21R Ⓑ	V/V(fpm)	277	554	831	1108	1385	1662
†21L Ⓑ	V/V(fpm)	280	560	840	1120	1400	1680

* Minimum † ATC Climb Rate

Ⓓ to 500
Ⓑ to BESSA to 8000
Ⓒ to 4000

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 3L/R: Climb on heading 035° to 1500, then left turn direct to cross BESSA at or above 8000. Thence...

TAKEOFF RWY 21L/R: Climb on heading 215° to 1500, then right turn direct to cross BESSA at or above 8000. Thence...

...via assigned transition. Maintain ATC assigned altitude.

HANAI TRANSITION (BESSA2.HANAI)
MENDOCINO TRANSITION (BESSA2.ENI)
WILLIAMS TRANSITION (BESSA2.ILA)

BESSA TWO DEPARTURE (RNAV) (BESSA2.BESSA)

Orig 11JUL24

FAIRFIELD, CALIFORNIA
TRAVIS AFB (KSUU)

SW-2, 09 JUL 2026 to 03 SEP 2026

21280

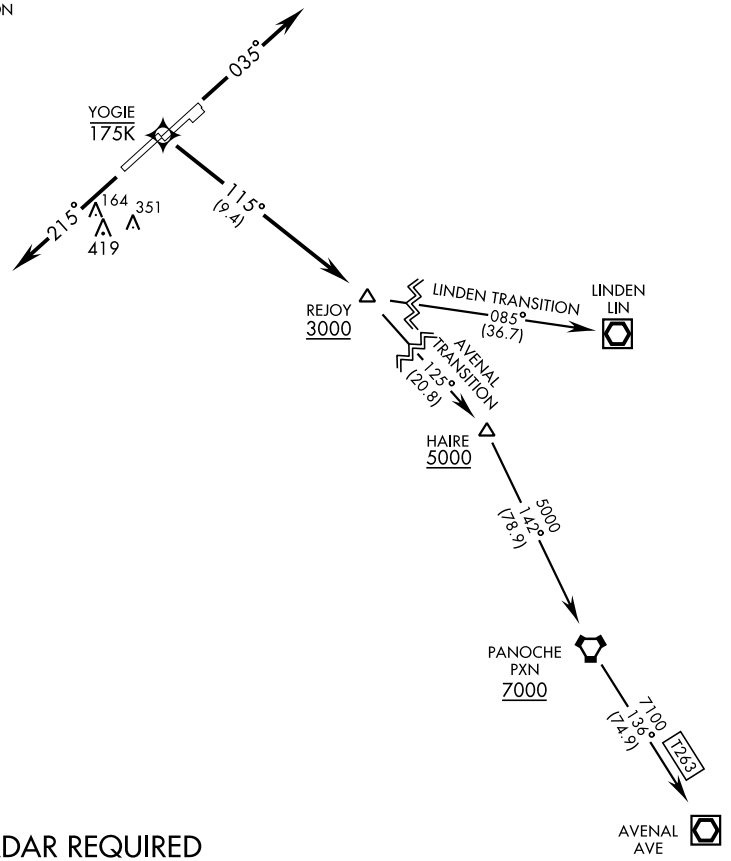
TRAVIS AFB (KSUU)

REJOY ONE DEPARTURE (RNAV) (REJOY1• REJOY)

FAIRFIELD, CALIFORNIA

ATIS 135.55 292.125
CLNC DEL
127.55 335.8
GND CON
121.8 289.4
TOWER
120.75 254.4
TRAVIS DEP CON
126.6 306.9

[USAF] AL-488 (CIV)



RNAV1 - GPS.

ATC RADAR REQUIRED

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 3 L/R: Climb on heading 035° to 2000, expect ATC RADAR vectors to YOGIE, then track 115° to cross REJOY at or above 3000. Thence...

TAKEOFF RWY 21L/R: Climb on heading 215° to 2000, expect ATC RADAR vectors to cross REJOY at or above 3000. Thence...

...via assigned transition. Maintain ATC assigned altitude. Expect further clearance to filed altitude within 10 minutes after departure.

AVENAL TRANSITION: (REJOY1•AVE)
LINDEN TRANSITION: (REJOY 1•LIN)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 11

TRUCKEE-TAHOE (TRK)

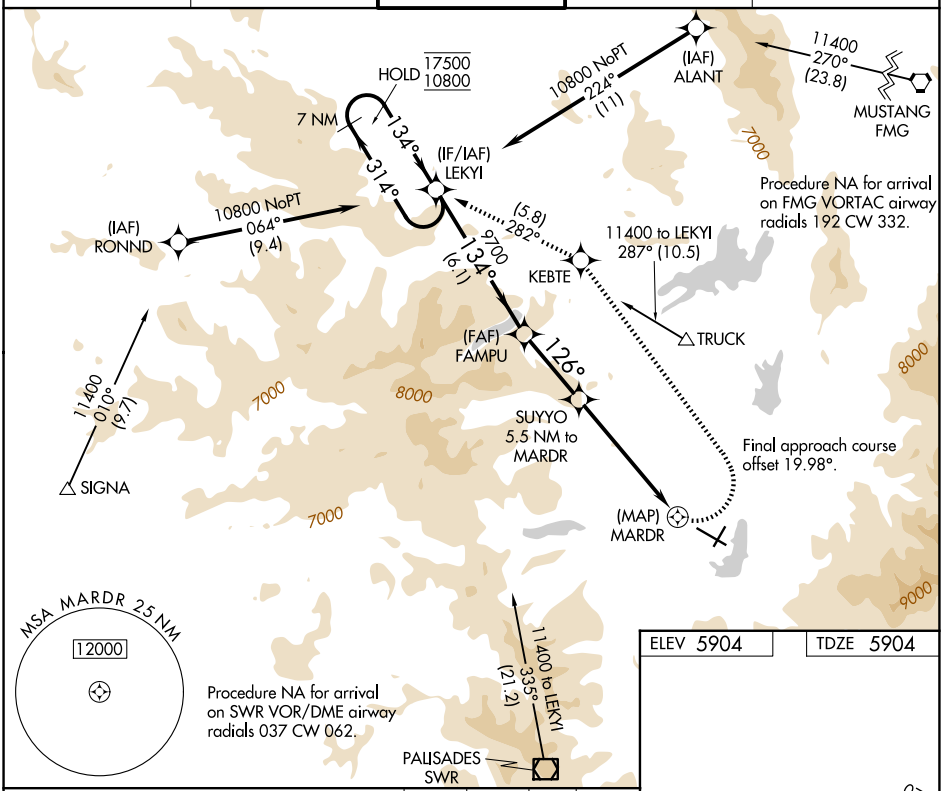
APP CRS	Rwy Ldg	TDZE	Apt Elev
126°	7001	5904	5904

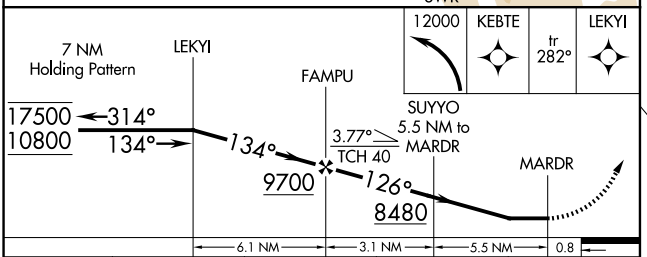
RNP APCH.

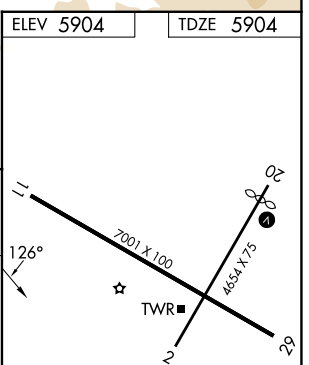
Circling NA for Cat C south of Rwy 29 and east of Rwy 2.
Procedure NA at night. Rwy 11 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, procedure NA.
-17°C

MISSED APPROACH: (Do not exceed 220K until KEBTE) Climbing left turn to 12000 direct KEBTE and track 282° to LEKYI and hold, continue climb-in-hold 12000.

D-ATIS	OAKLAND CENTER	TRUCKEE TOWER ★	GND CON	UNICOM
118.0	127.95 316.1	120.575 (CTAF) L	118.3	122.95







CATEGORY	A	B	C	D
LNAV MDA	7720-1¼ 1816 (1900-1¼)	7720-1½ 1816 (1900-1½)	7720-3 1816 (1900-3)	NA
CIRCLING	7720-1¼ 1816 (1900-1¼)	7720-1½ 1816 (1900-1½)	7720-3 1816 (1900-3)	NA

REIL Rwy 11 L
MIRL Rwys 11-29 and 2-20 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

TRUCKEE, CALIFORNIA | AL-6021 (FAA) | 26078

RNAV (GPS) RWY 20

TRUCKEE-TAHOE (TRK)

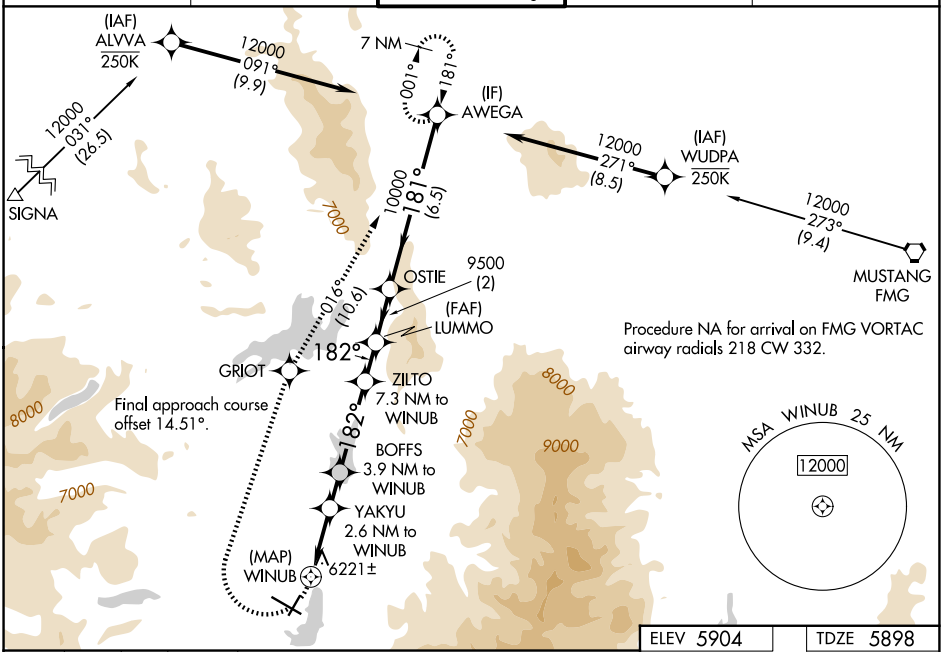
WAAS CH 87135 W20A	APP CRS 182°	Rwy Ldg 4539 / TDZE 5898 / Apt Elev 5904

RNP APCH.

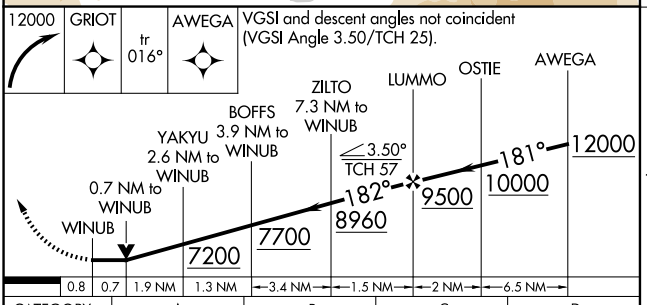
T A -17°C Circling to Rwy 2, 11, 29 NA at night. Circling NA for Cat C south of Rwy 29 and east of Rwy 2. Rwy 20 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, procedure NA.

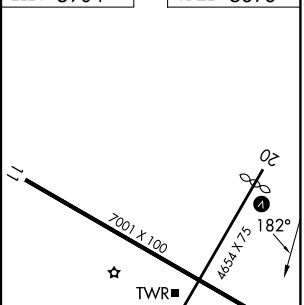
MISSED APPROACH: (Do not exceed 200K until GRIOT) Climbing right turn to 12000 direct GRIOT and on track 016° to AWEGA and hold, continue climb-in-hold to 12000.
*Missed approach requires minimum climb of 270 feet per NM to 7700.

D-ATIS	OAKLAND CENTER	TRUCKEE TOWER★	GND CON	UNICOM
118.0	127.95 316.1	120.575 (CTAF) L	118.3	122.95



ELEV 5904 | TDZE 5898





CATEGORY	A	B	C	D
LP MDA*	6480-1 582 (600-1)		6480-1¾ 582 (600-1¾)	NA
LP MDA	6780-1¼ 882 (900-1¼)		6780-2½ 882 (900-2½)	NA
LNAV MDA	7120-1¼ 1222 (1300-1¼)	7120-1½ 1222 (1300-1½)	7120-3 1222 (1300-3)	NA
CIRCLING	7120-1¼ 1216 (1300-1¼)	7220-1½ 1316 (1400-1½)	7700-3 1796 (1800-3)	NA

REIL Rwy 11 L
MIRL Rwys 11-29 and 2-20 L

TRUCKEE, CALIFORNIA
Amdt 1A 23APR20

39°19′N-120°08′W

TRUCKEE-TAHOE (TRK)

RNAV (GPS) RWY 20

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS)-A

TRUCKEE-TAHOE (TRK)

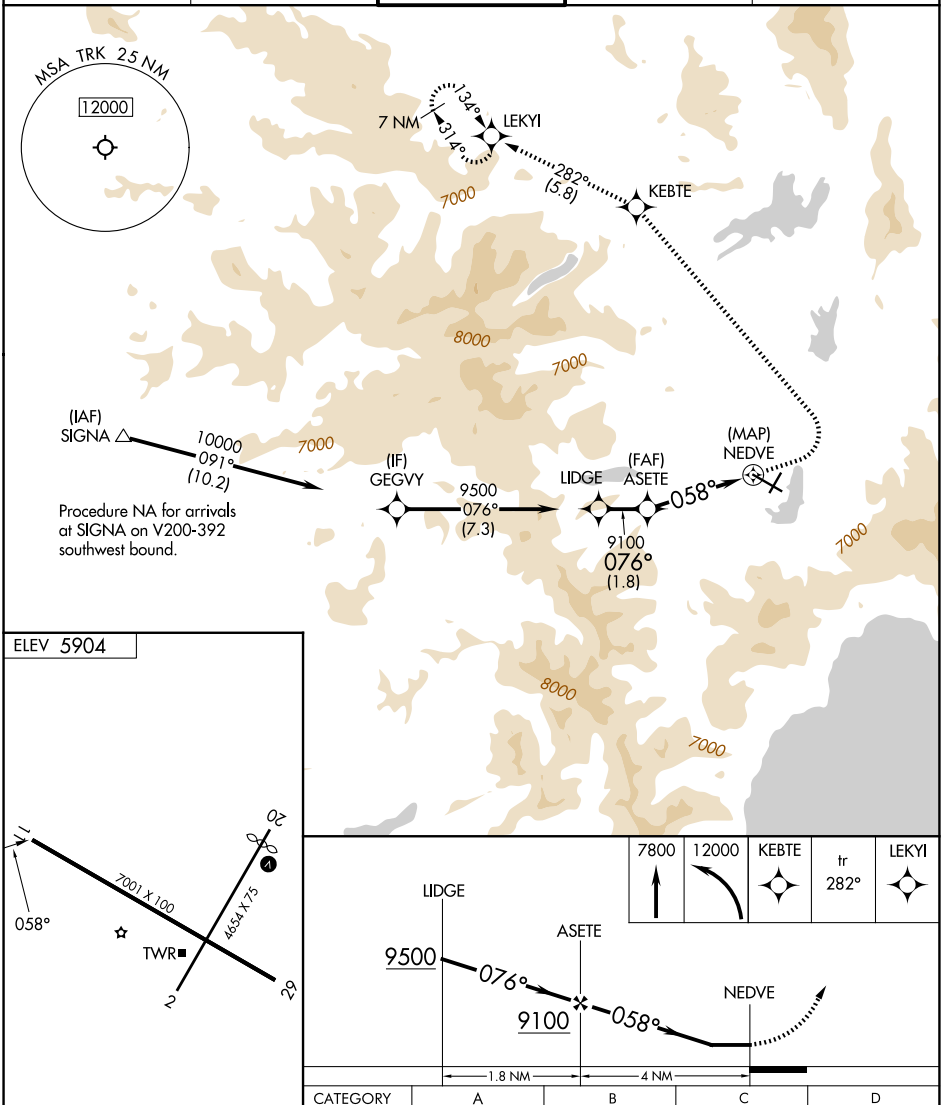
APP CRS	Rwy Ldg	N/A
058°	TDZE	N/A
	Apt Elev	5904

RNP APCH.

Circling NA for Cat C south of Rwy 29 and east of Rwy 2. Procedure NA at night. When local altimeter setting not received, procedure NA. -17°C

MISSED APPROACH: (Do not exceed 200K until KEBTE) Climb to 7800 then climbing left turn to 12000 direct KEBTE and track 282° to LEKYI and hold, continue climb-in-hold 12000.

D-ATIS	OAKLAND CENTER	TRUCKEE TOWER ★	GND CON	UNICOM
118.0	127.95 316.1	120.575 (CTAF) L	118.3	122.95



CATEGORY	A	B	C	D
CIRCLING	7500-1¼ 1596 (1600-1¼)	7500-1½ 1596 (1600-1½)	7700-3 1796 (1800-3)	NA

REIL Rwy 11 L
MIRL Rwys 11-29 and 2-20 L

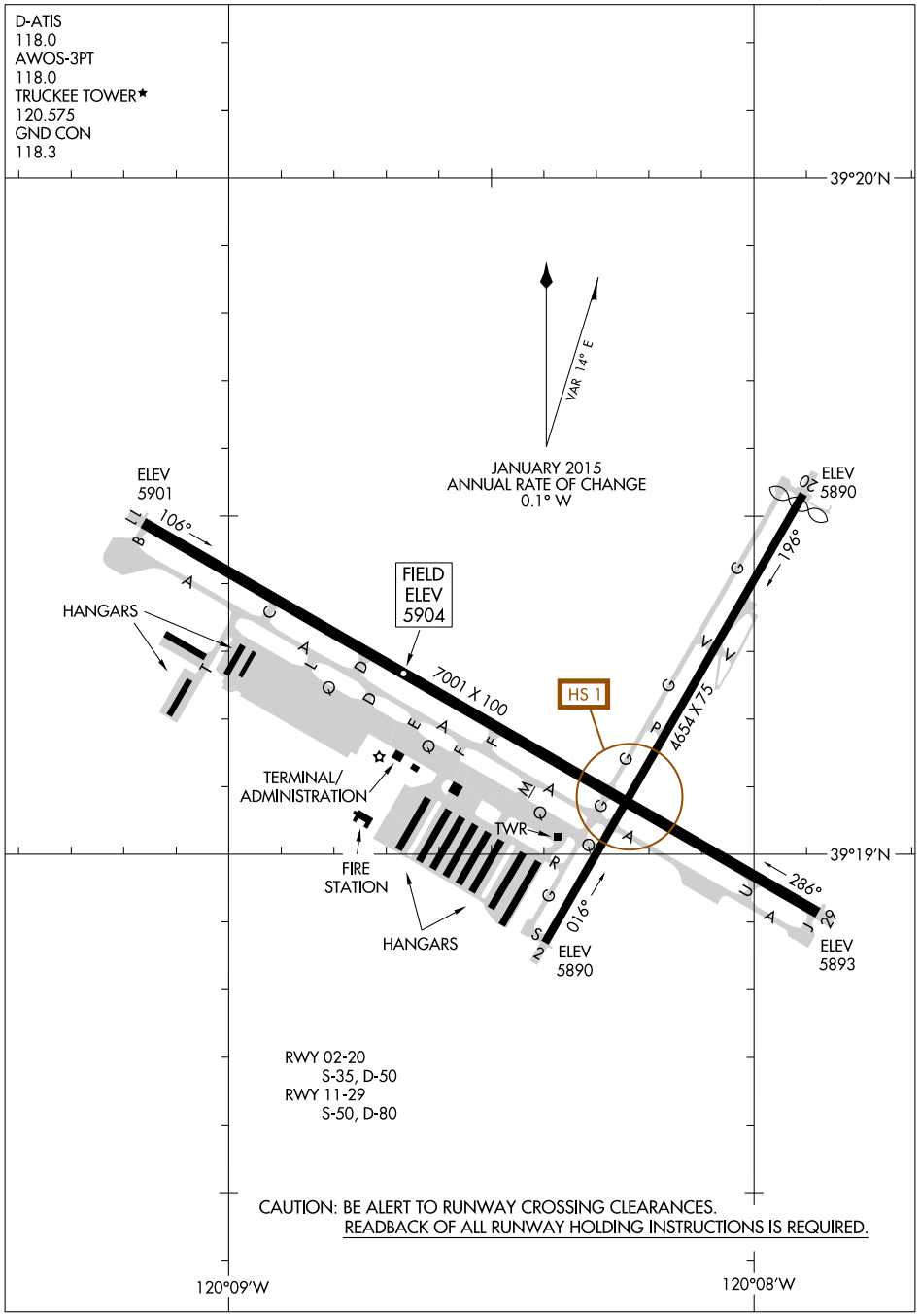
SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

26134

AIRPORT DIAGRAM

AL-6021 (FAA)

TRUCKEE-TAHOE (TRK)
TRUCKEE, CALIFORNIA



AIRPORT DIAGRAM

TRUCKEE, CALIFORNIA
TRUCKEE-TAHOE (TRK)

26134

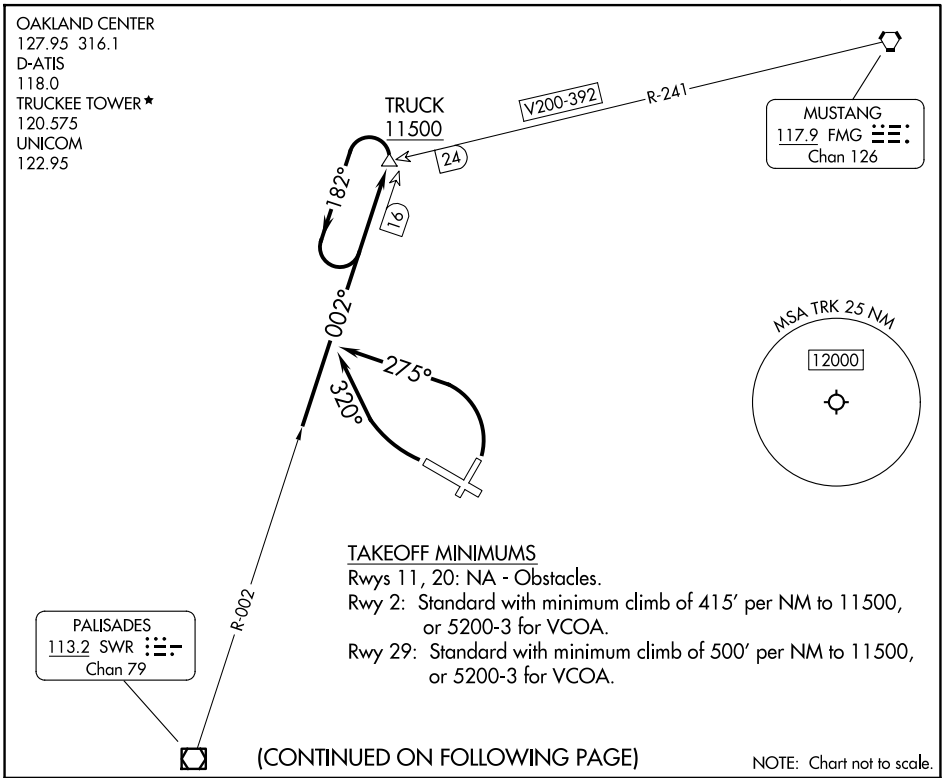
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

TRUCK FIVE DEPARTURE (OBSTACLE)

AL-6021 (FAA)

TRUCKEE, CALIFORNIA



TAKEOFF MINIMUMS

Rwys 11, 20: NA - Obstacles.

Rwy 2: Standard with minimum climb of 415' per NM to 11500, or 5200-3 for VCOA.

Rwy 29: Standard with minimum climb of 500' per NM to 11500, or 5200-3 for VCOA.

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climbing left turn to 11500 on heading 275° and SWR R-002 to TRUCK INT, thence. . . . , or for climb in visual conditions cross Truckee-Tahoe Airport heading 290° at or above 9100, then proceed on SWR R-002 to TRUCK INT. When executing VCOA, notify ATC prior to departure. Thence. . . .

TAKEOFF RUNWAY 29: Climbing right turn to 11500 on heading 320° and SWR VOR/DME R-002 to TRUCK INT, thence. . . . , or for climb in visual conditions cross Truckee-Tahoe Airport heading 290° at or above 9100, then proceed on SWR R-002 to TRUCK INT. When executing VCOA, notify ATC prior to departure. thence. . . .

. . . .continue climb in TRUCK INT holding pattern to cross TRUCK INT at or above 11500 before proceeding on course.

VCOA RUNWAYS 2, 29: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Truckee-Tahoe Airport heading 290° at or above 9100, then proceed on SWR VOR/DME R-002 to TRUCK INT, thence. . . .

. . . .continue climb in TRUCK INT holding pattern to cross TRUCK INT at or above 11500 before proceeding on course.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026

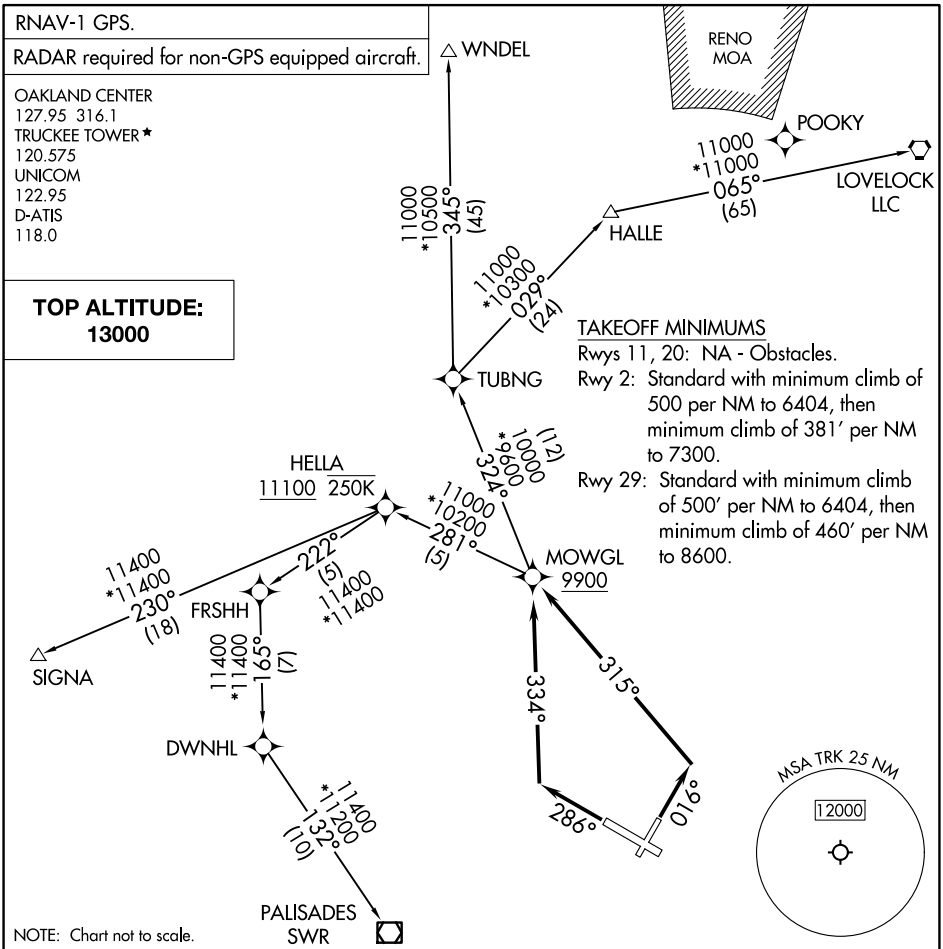
TAKEOFF OBSTACLE NOTES

Rwy 2: Trees, electrical system beginning 32′ from DER, 189′ left of centerline, up to 5934′ MSL. Trees beginning 448′ from DER, 431′ right of centerline, up to 5968′ MSL. Trees beginning 1 NM from DER, 1765′ right of centerline, up to 6078′ MSL. Tree 1 NM from DER, 1920′ right of centerline, 6125′ MSL. Trees beginning 1 NM from DER, 1540′ right of centerline, up to 6130′ MSL. Tree 1.1 NM from DER, 2002′ right of centerline, 6145′ MSL. Tree 1.1 NM from DER, 1766′ right of centerline, 6153′ MSL. Trees beginning 1.1 NM from DER, 1340′ right of centerline, up to 6154′ MSL. Trees beginning 1.1 NM from DER, 1302′ right of centerline, up to 6182′ MSL. Trees beginning 1.1 NM from DER, 1115′ right of centerline, up to 6242′ MSL. Trees beginning 1.1 NM from DER, 1067′ right of centerline, up to 6248′ MSL. Trees beginning 1.2 NM from DER, 1147′ right of centerline, up to 6253′ MSL. Trees beginning 1.2 NM from DER, 1351′ right of centerline, up to 6266′ MSL. Trees beginning 1.2 NM from DER, 929′ right of centerline, up to 6272′ MSL. Trees beginning 1.2 NM from DER, 818′ right of centerline, up to 6280′ MSL. Trees beginning 1.3 NM from DER, 1744′ right of centerline, up to 6281′ MSL. Trees beginning 1.3 NM from DER, 639′ right of centerline, up to 6288′ MSL. Trees beginning 1.3 NM from DER, 433′ right of centerline, up to 6305′ MSL. Trees, building beginning 1.4 NM from DER, 40′ right of centerline, up to 6315′ MSL. Tree 1.5 NM from DER, 7′ left of centerline, 6137′ MSL.

Rwy 29: Sign 23′ from DER, 157′ left of centerline, 3′ AGL/5902′ MSL. Trees beginning 73′ from DER, 400′ right of centerline, up to 5968′ MSL. Pole 144′ from DER, 217′ left of centerline, 6′ AGL/5905′ MSL. Trees beginning 206′ from DER, 55′ right of centerline, up to 5971′ MSL. Tree 213′ from DER, 546′ left of centerline, 5923′ MSL. Trees beginning 637′ from DER, 81′ left of centerline, up to 6005′ MSL. Tree 5956′ from DER, 542 right of centerline, 6058′ MSL. Trees beginning 1.6 NM from DER, 1356′ left of centerline, up to 6153′ MSL. Trees beginning 1.6 NM from DER, 1384′ left of centerline, up to 6197′ MSL. Tress, water tower beginning 1.6 NM from DER, 1738′ left of centerline, up to 6206′ MSL. Trees, pole beginning 1.6 NM from DER, 249′ left of centerline, up to 6268′ MSL. Tree 1.8 NM from DER, 3070′ right of centerline, 6192′ MSL. Tree 1.8 NM from DER, 2728′ right of centerline, 6197′ MSL. Tree 1.8 NM from DER, 1614′ right of centerline, 6204′ MSL. Trees beginning 1.8 NM from DER, 1108′ right of centerline, up to 6211′ MSL. Tree 1.8 NM from DER, 2581′ right of centerline, 6259′ MSL. Trees beginning 1.8 NM from DER, 2144′ right of centerline, up to 6265′ MSL. Trees beginning 1.9 NM from DER, 183′ right of centerline, up to 6266′ MSL. Tree 1.9 NM from DER, 3540′ right of centerline, 6308′ MSL. Tree 1.9 NM from DER, 3135′ right of centerline, 6351′ MSL. Trees beginning 1.9 NM from DER, 307′ right of centerline, up to 6379′ MSL. Tree 2 NM from DER, 3583′ right of centerline, 6391′ MSL. Trees beginning 2 NM from DER, 1301′ right of centerline, up to 6458′ MSL. Trees beginning 2 NM from DER, 535′ right of centerline, up to 6468′ MSL. Tree 2 NM from DER, 639′ left of centerline, 6270′ MSL. Tree 2.1 NM from DER, 2242′ left of centerline, 6315′ MSL. Trees beginning 2.1 NM from DER, 50′ left of centerline, up to 6332′ MSL. Tree 2.1 NM from DER, 2881′ right of centerline, 6502′ MSL. Trees beginning 2.1 NM from DER, 214′ right of centerline, up to 6505′ MSL. Tree 2.1 NM from DER, 2769′ left of centerline, 6439′ MSL. Trees beginning 2.1 NM from DER, 259′ left of centerline, up to 6440′ MSL. Tree 2.1 NM from DER, 3037′ right of centerline, 6547′ MSL. Trees beginning 2.1 NM from DER, 636′ right of centerline, up to 6573′ MSL. Trees beginning 2.2 NM from DER, 1171′ right of centerline, up to 6583′ MSL. Trees beginning 2.2 NM from DER, 733′ left of centerline, up to 6460′ MSL. Trees, building beginning 2.2 NM from DER, 20′ left of centerline, up to 6549′ MSL. Trees beginning 2.2 NM from DER, 525′ right of centerline, up to 6612′ MSL. Trees beginning 2.3 NM from DER, 1111′ right of centerline, up to 6657′ MSL. Tree beginning 2.3 NM from DER, 2179′ right of centerline, up to 6682′ MSL. Trees beginning 2.3 NM from DER, 412′ right of centerline, up to 6731′ MSL. Trees beginning 2.4 NM from DER, 371′ right of centerline, up to 6776′ MSL. Tower 2.5 NM from DER, 2714′ right of centerline, 93′ AGL/6817′ MSL. Antenna, trees beginning 2.5 NM from DER, 73′ right of centerline, up to 88′ AGL/6822′ MSL.

MOWGL TWO DEPARTURE (RNAV)

AL-6021 (FAA)



TAKEOFF MINIMUMS

Rwys 11, 20: NA - Obstacles.

Rwy 2: Standard with minimum climb of 500 per NM to 6404, then minimum climb of 381′ per NM to 7300.

Rwy 29: Standard with minimum climb of 500′ per NM to 6404, then minimum climb of 460′ per NM to 8600.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb on heading 016° to intercept course 315° to cross MOWGL at or above 9900, thence. . . .

TAKEOFF RUNWAY 29: Climb on heading 286° to intercept course 334° to cross MOWGL at or above 9900, thence. . . .

. . . .(transition) maintain 13000 expect filed altitude 10 minutes after departure.

HALLE TRANSITION (MOWGL2.HALLE)

LOVELOCK TRANSITION (MOWGL2.LLC)

PALISADES TRANSITION (MOWGL2.SWR)

SIGNA TRANSITION (MOWGL2.SIGNA)

WNDEL TRANSITION (MOWGL2.WNDEL)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 13

MEFFORD FLD (TLR)

APP CRS	Rwy Ldg	3901
135°	TDZE	265
	Apt Elev	265

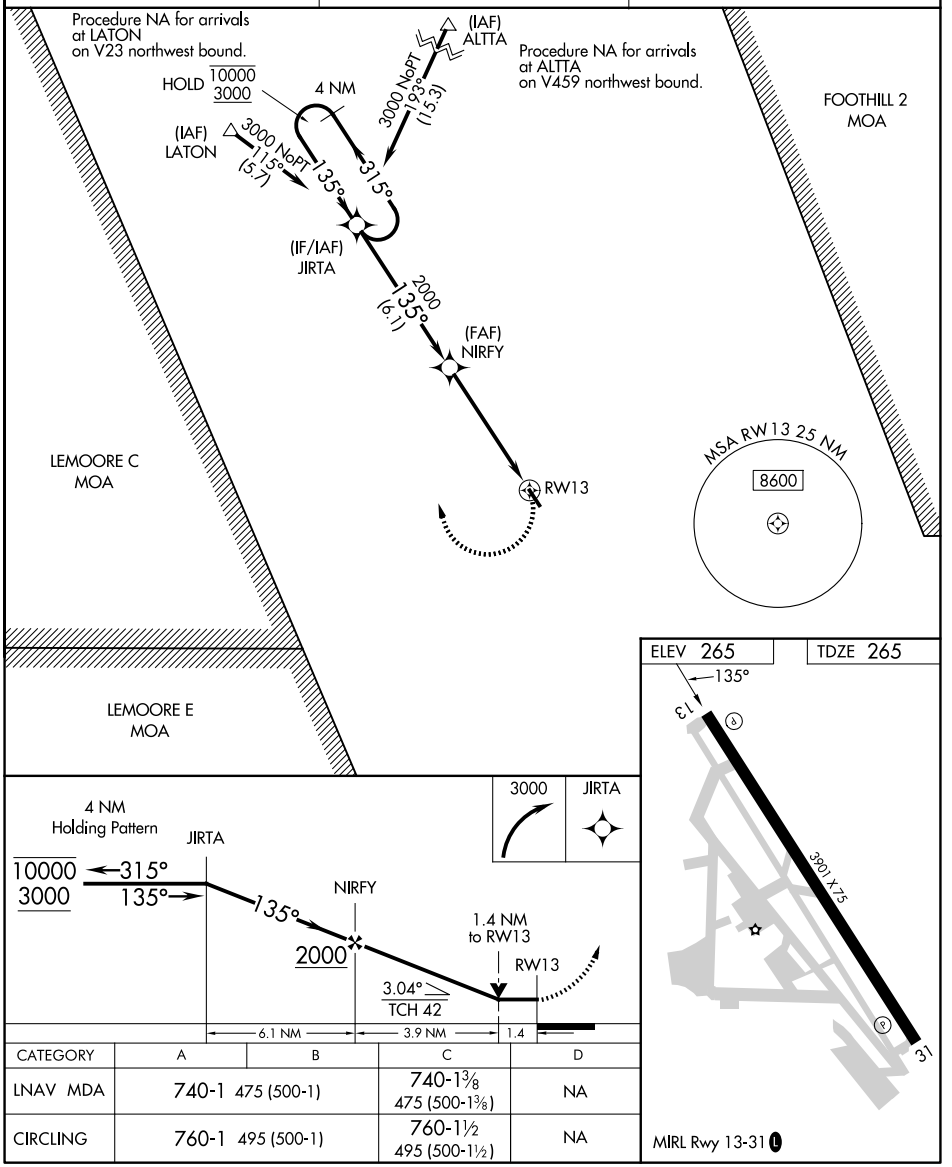
RNP APCH.

T A NA

Circling Rwy 31 NA at night. Rwy 13 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Visalia altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climbing right turn to 3000 direct JIRTA and hold, Continue climb-in-hold to 3000.

AWOS-3PT	FRESNO APP CON	UNICOM
120.0	118.5 268.7	122.7 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	740-1 475 (500-1)		740-1⅜ 475 (500-1⅜)	NA
CIRCLING	760-1 495 (500-1)		760-1½ 495 (500-1½)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS)-A

TURLOCK MUNI (O15)

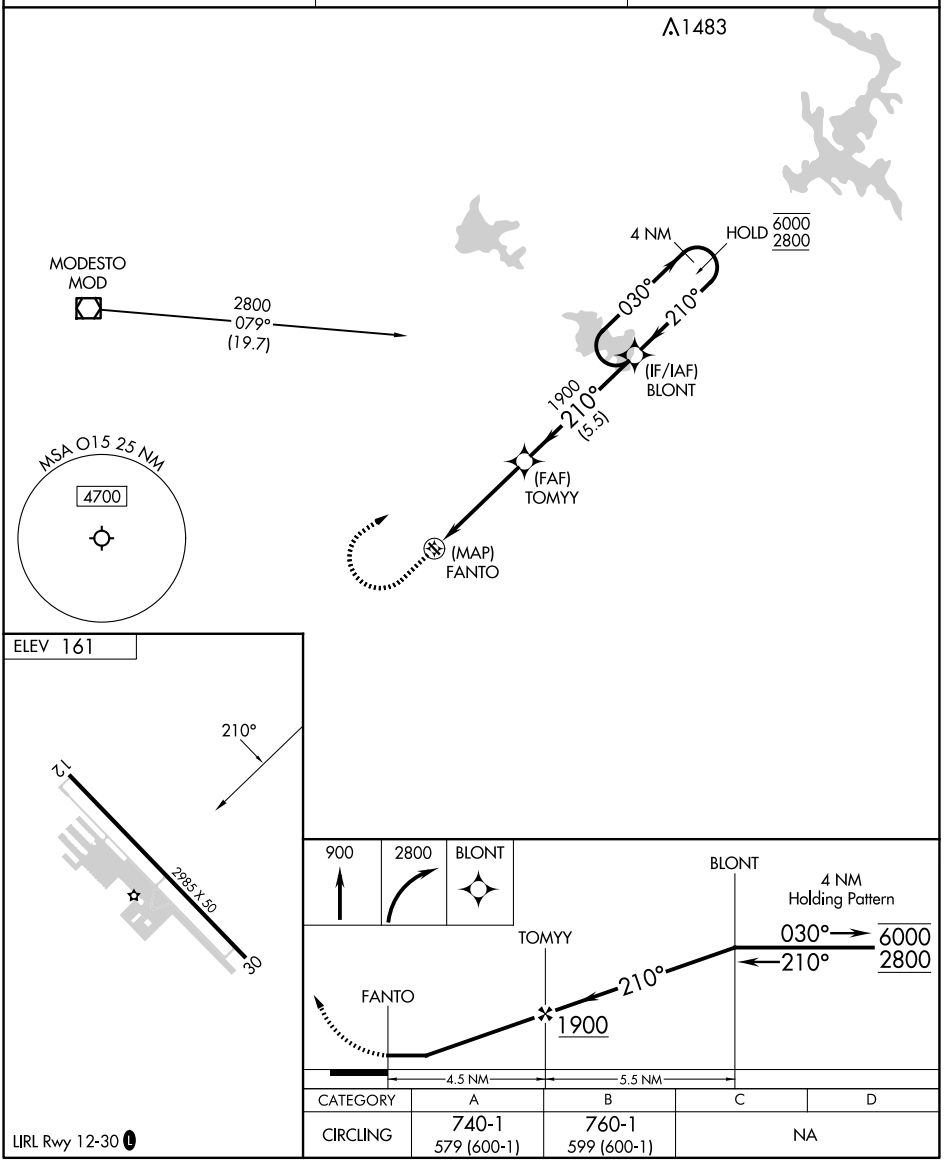
APP CRS	Rwy Idg	N/A
210°	TDZE	N/A
	Apt Elev	161

RNP APCH - GPS.

NA Procedure NA at night. Use MER altimeter setting; when not received, use MCE altimeter setting and increase all MDAs 20 feet.

MISSED APPROACH: Climb to 900 then climbing right turn to 2800 direct BLONT and hold.

MER AWOS-3	NORCAL APP CON	UNICOM
124.475	120.95 269.45	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	740-1 579 (600-1)	760-1 599 (600-1)	NA	

LIRL Rwy 12-30 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

UKIAH, CALIFORNIA | AL-698 (FAA) | 25275

RNAV (GPS) RWY 15

UKIAH MUNI (UKI)

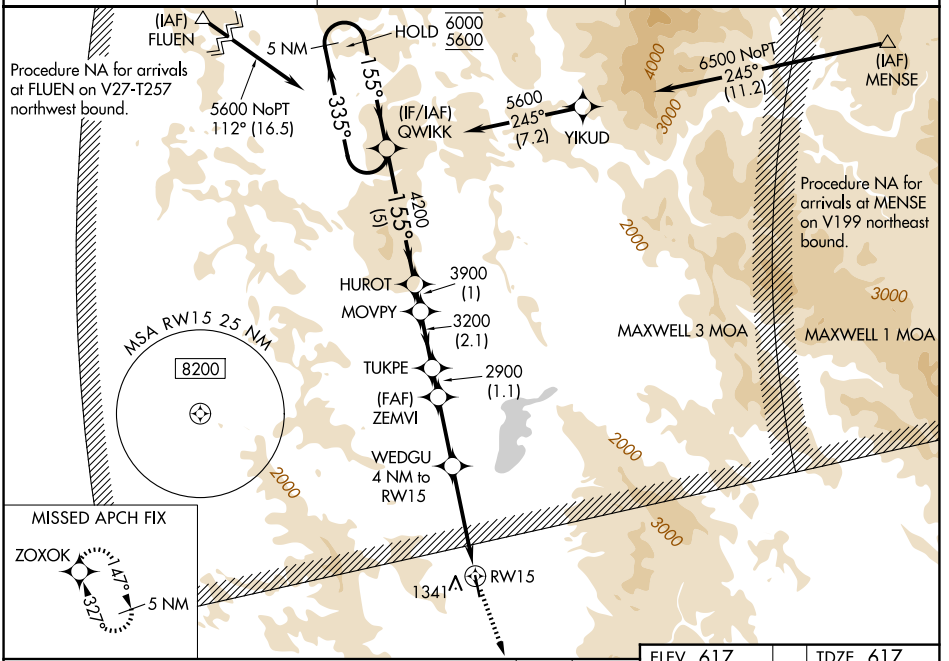
WAAS	APP CRS	Rwy Ldg	4423
CH 93644	155°	TDZE	617
W15A		Apt Elev	617

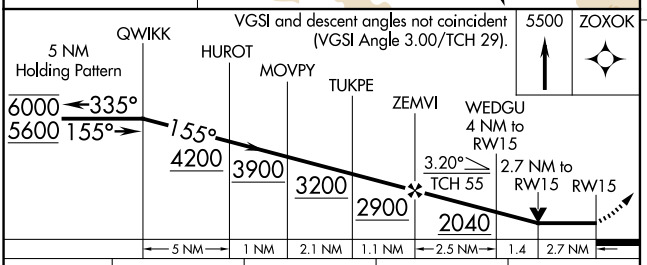
RNP APCH - GPS.

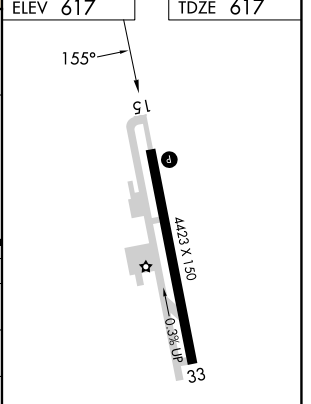
Circling NA southwest of Rwy 15-33. Circling Rwy 33 NA at night. Rwy 15 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 5500 direct ZOXOK and hold, continue climb-in-hold to 5500.
*Missed approach requires minimum climb of 350 feet per NM to 3300.

ASOS	OAKLAND CENTER	UNICOM
119.275	127.8 353.5	123.0 (CTAF) L







CATEGORY	A	B	C	D
LP MDA*	1500-1¼ 883 (900-1¼)	1540-1¼ 923 (1000-1¼)	1560-2½ 943 (1000-2½)	1580-3 963 (1000-3)
LP MDA	2120-1¼ 1503 (1600-1¼)	2120-1½ 1503 (1600-1½)	2120-3 1503 (1600-3)	
LNAV MDA*	1960-1¼ 1343 (1400-1¼)	1960-1½ 1343 (1400-1½)	1960-3 1343 (1400-3)	
LNAV MDA	2220-1¼ 1603 (1700-1¼)	2220-1½ 1603 (1700-1½)	2220-3 1603 (1700-3)	
CIRCLING	2220-1¼ 1603 (1700-1¼)	2220-1½ 1603 (1700-1½)	2220-3 1603 (1700-3)	2780-3 2163 (2200-3)

MIRL Rwy 15-33 L
REIL Rwys 15 and 33 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS	Rwy Ldg	N/A
335°	TDZE	N/A
	Apt Elev	617

RNAV (GPS)-B

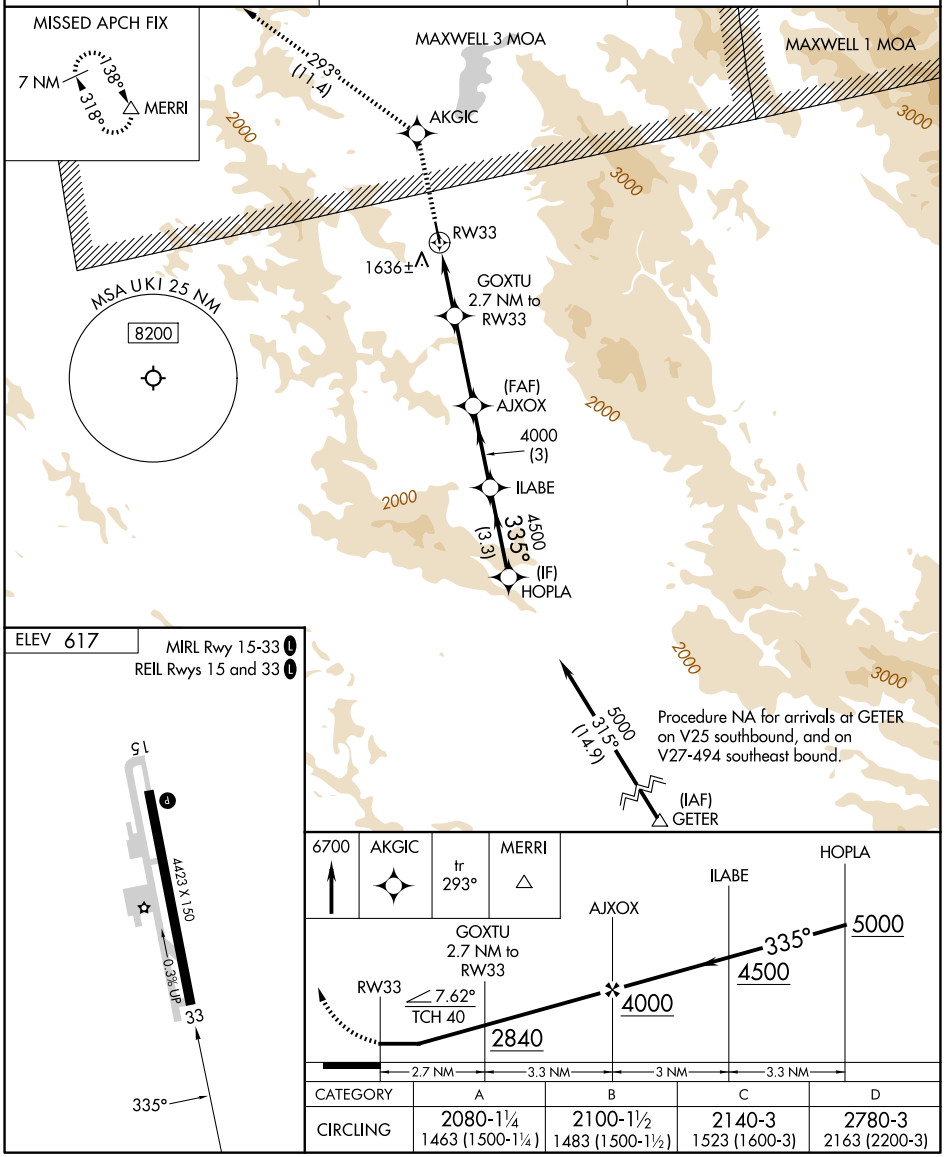
UKIAH MUNI (UKI)

RNP APCH - GPS.

Circling NA southwest of Rwy 15-33. Circling Rwy 33 NA at night. Rwy 33 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 6700 direct AKGIC and on track 293° to MERRI and hold, continue climb-in-hold to 6700.

ASOS	OAKLAND CENTER	UNICOM
119.275	127.8 353.5	123.0 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	2080-1¼ 1463 (1500-1¼)	2100-1½ 1483 (1500-1½)	2140-3 1523 (1600-3)	2780-3 2163 (2200-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

UKIAH, CALIFORNIA | AL-698 (FAA) | 25275

LOC/DME I-UKI	APP CRS	Rwy Ldg	4423
109.1	155°	TDZE	617
Chan 28		Apt Elev	617

LOC RWY 15

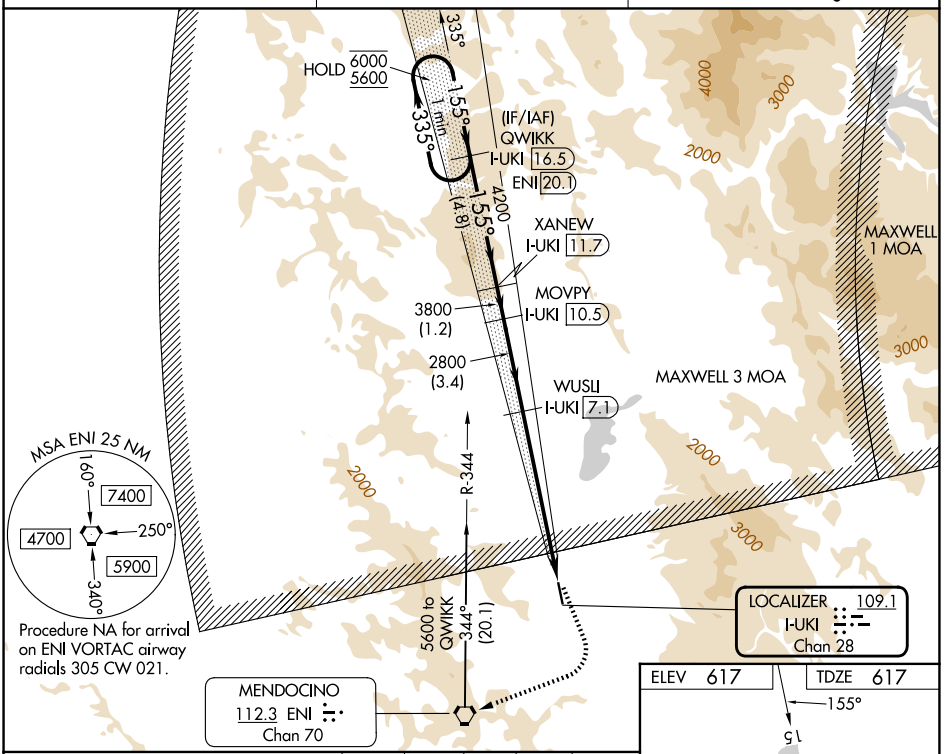
UKIAH MUNI (UKI)

DME required.

Circling NA southwest of Rwy 15-33. Circling Rwy 33 NA at night. Rwy 15 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, procedure NA.

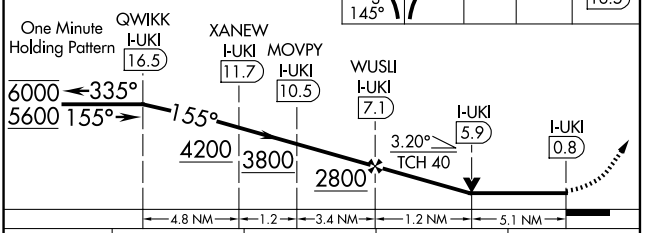
MISSED APPROACH: Climbing left turn to 4100 on heading 145° then climbing right turn to 5600 direct ENI VORTAC and on ENI VORTAC R-344 to QWIKK /I-UKI 16.5 DME and hold.

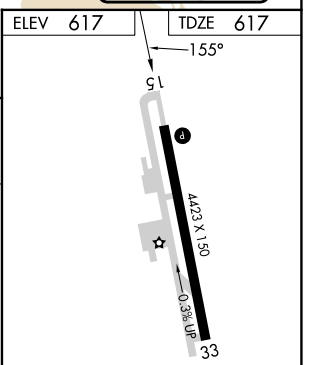
ASOS	OAKLAND CENTER	UNICOM
119.275	127.8 353.5	123.0 (CTAF) L



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 29).

4100	5600	ENI	ENI R-344	QWIKK I-UKI 16.5
hdg 145°				





CATEGORY	A	B	C	D
S-LOC 15	2300-1¼ 1683 (1700-1¼)	2300-1½ 1683 (1700-1½)	2300-3 1683 (1700-3)	
CIRCLING	2300-1¼ 1683 (1700-1¼)	2300-1½ 1683 (1700-1½)	2300-3 1683 (1700-3)	2780-3 2163 (2200-3)

MIRL Rwy 15-33 L
REIL Rwys 15 and 33 L

FAF to MAP 6.3 NM

Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VORTAC ENI	APP CRS	Rwy Ldg	N/A
112.3	022°	TDZE	N/A
Chan 70		Apt Elev	617

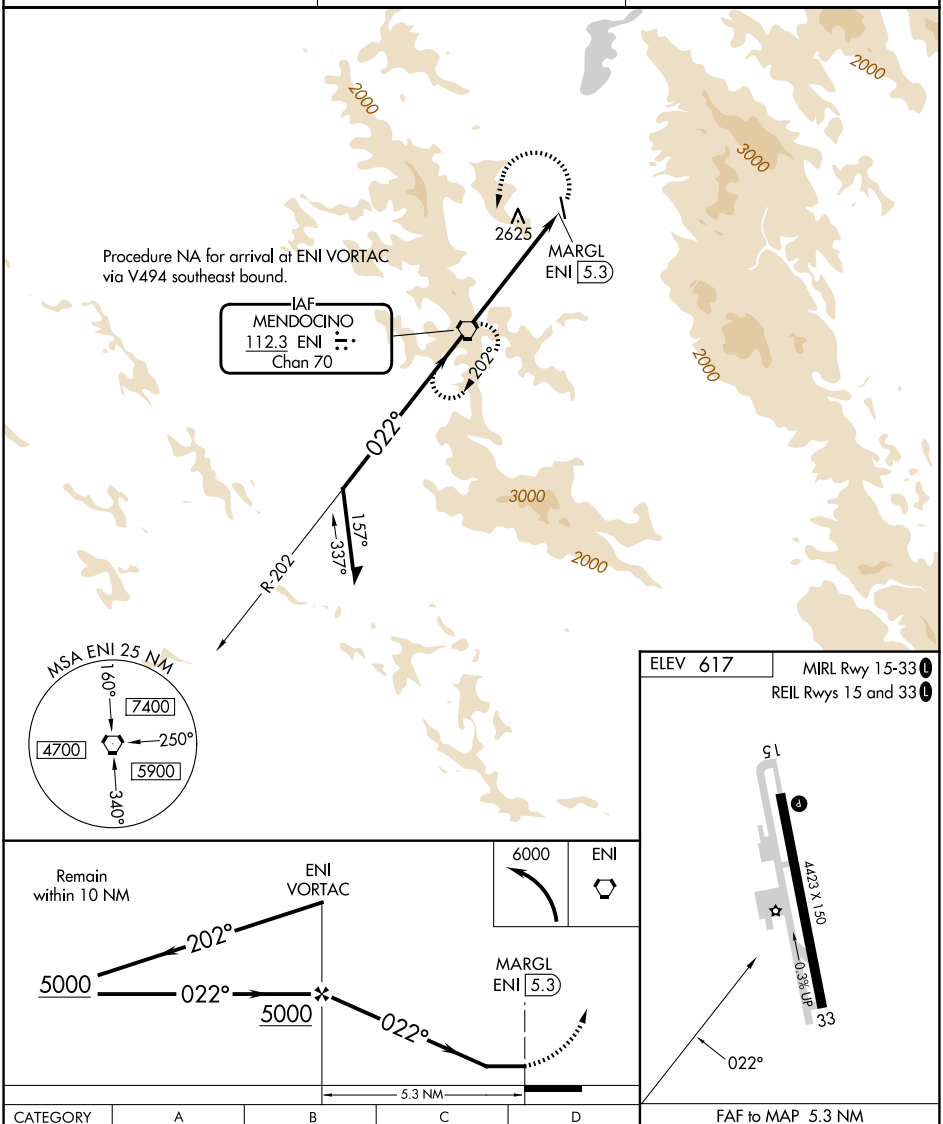
VOR-A

UKIAH MUNI (UKI)

Circling NA west of Rwy 15-33.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing left turn to 6000 direct ENI VORTAC and hold, continue climb-in-hold to 6000.

ASOS	OAKLAND CENTER	UNICOM
119.275	127.8 353.5	123.0 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	3400-1¼ 2783 (2800-1¼)	3400-1½ 2783 (2800-1½)	3400-3 2783 (2800-3)	

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(RONHU2.RONHU) 22307

RONHU TWO DEPARTURE (RNAV)

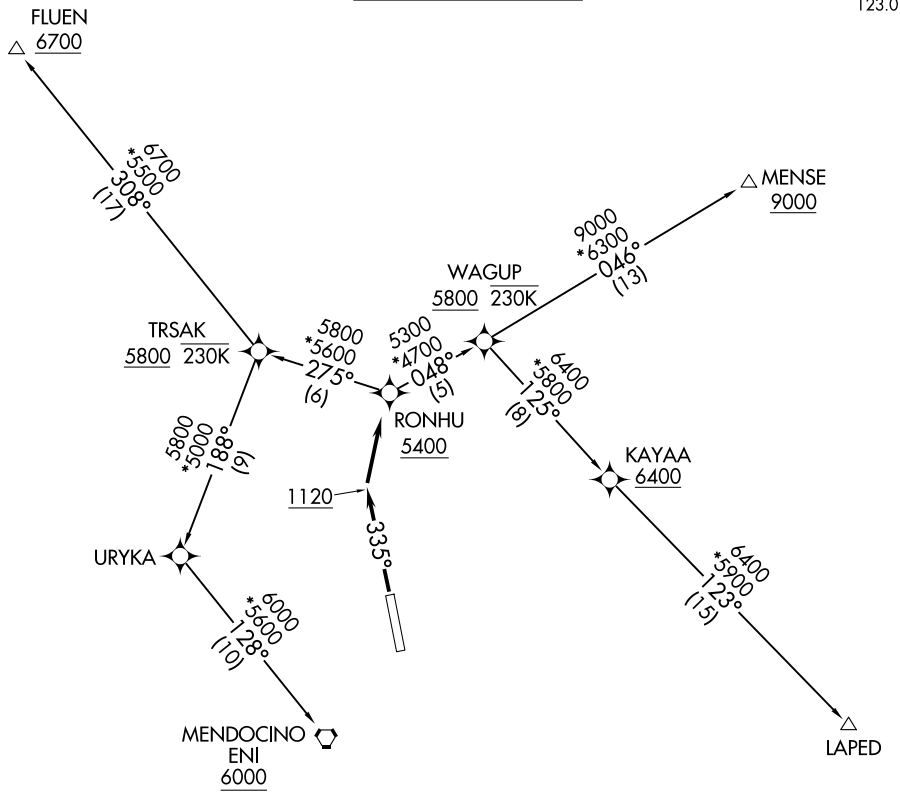
AL-698 (FAA)

UKIAH MUNI (UKI)
UKIAH, CALIFORNIA

RNAV 1 - GPS.

TOP ALTITUDE: ASSIGNED BY ATC

OAKLAND CENTER
127.8 353.5
CTAF
123.0



TAKEOFF MINIMUMS

Rwy 33: Standard with minimum climb of 297′ per NM to 4000.

NOTE: Do not exceed 230K until passing WAGUP.

NOTE: Do not exceed 230K until passing TRSAK.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 33: Climb on heading 335° to 1120, then direct RONHU at or above 5400, thence . . . .

. . . . on assigned transition, maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

FLUEN TRANSITION (RONHU2.FLUEN)

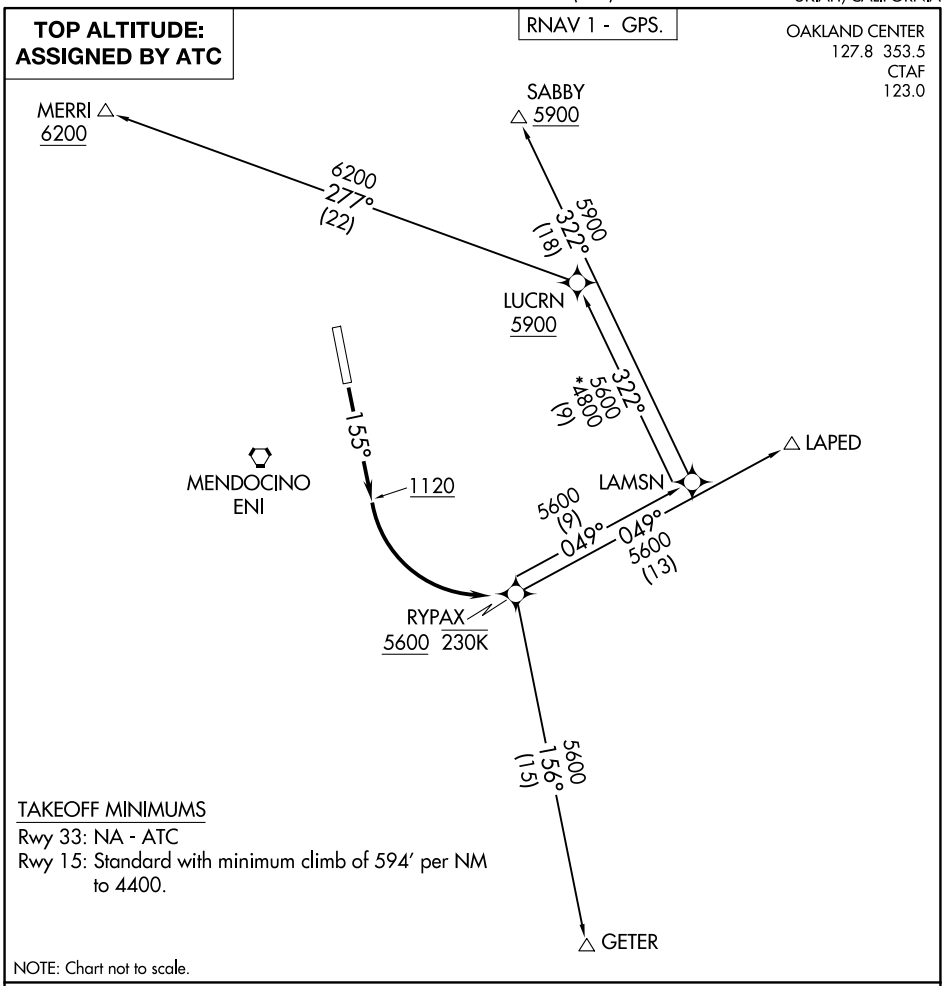
LAPED TRANSITION (RONHU2.LAPED)

MENDOCINO TRANSITION (RONHU2.ENI)

MENSE TRANSITION (RONHU2.MENSE)

SW-2, 09 JUL 2026 to 03 SEP 2026

SW-2, 09 JUL 2026 to 03 SEP 2026



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 15: Climb on heading 155° to 1120, then left turn direct RYPAX at or above 5600 at or below 230K, thence. . . .

. . . . on assigned transition, maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

GETER TRANSITION (RYPAX2.GETER)
LAPED TRANSITION (RYPAX2.LAPED)
MERRI TRANSITION (RYPAX2.MERRI)
SABBY TRANSITION (RYPAX2.SABBY)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VACAVILLE, CALIFORNIA | AL-6094 (FAA) | 26134

RNAV (GPS) RWY 20

NUT TREE (VCB)

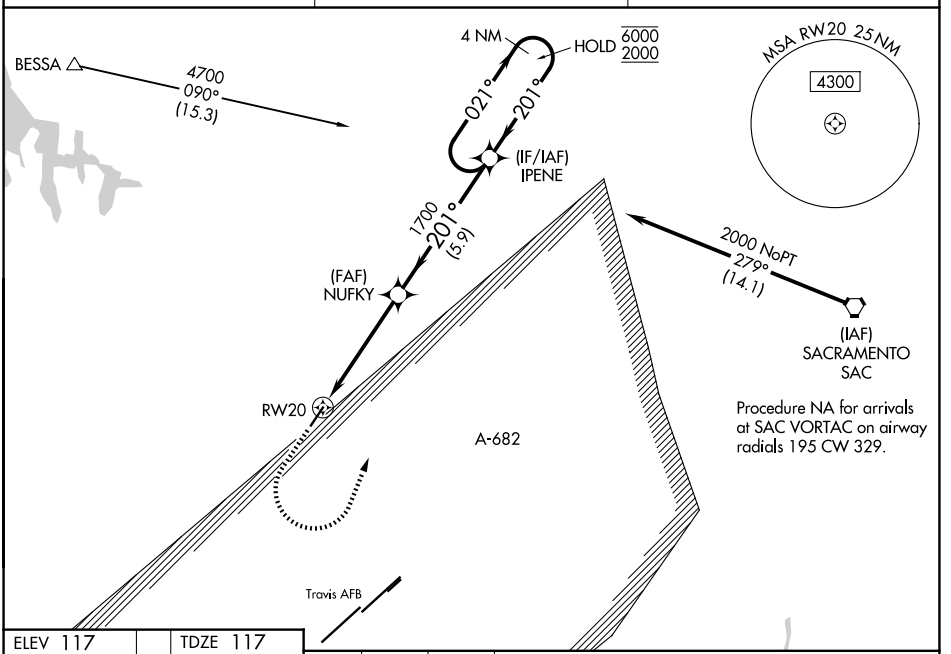
WAAS CH 53740 W20A	APP CRS 201°	Rwy Ldg 4700 TDZE 117 Apt Elev 117

RNP APCH.

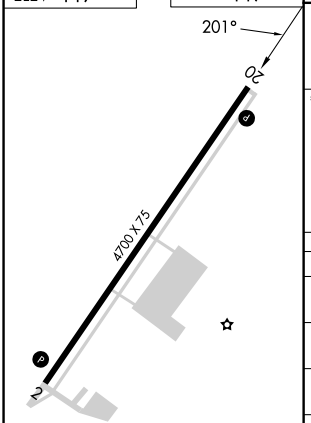
Circling NA west of Rwy 2-20. Circling Rwy 2 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C.

MISSED APPROACH: (Do not exceed 220K until IPENE) Climb to 580 then climbing left turn to 2100 direct IPENE and hold.
Missed approach requires minimum climb of 229 feet per NM to 1300.

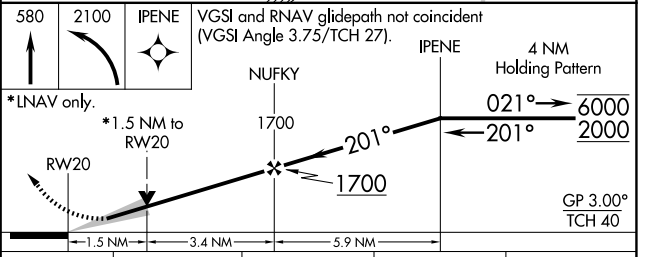
ASOS	TRAVIS APP CON	CTAF
134.75	128.4 281.45	122.85 L



ELEV 117 | TDZE 117



MIRL Rwy 2-20 L
REIL Rwys 2 and 20 L



CATEGORY	A	B	C	D
LPV DA#	367-¾ 250 (300-¾)			
LPV DA	384-⅞ 267 (300-⅞)			
LNAV/VNAV DA	614-1⅜ 497 (500-1⅜)			
LNAV MDA	720-1 603 (700-1)		720-1¾ 603 (700-1¾)	
CIRCLING	720-1 603 (700-1)		960-2½ 843 (900-2½)	1480-3 1363 (1400-3)

VACAVILLE, CALIFORNIA
Amdt 1B 12AUG21

38°23'N-121°58'W

NUT TREE (VCB)

RNAV (GPS) RWY 20

SW-2, 09 JUL 2026 to 03 SEP 2026

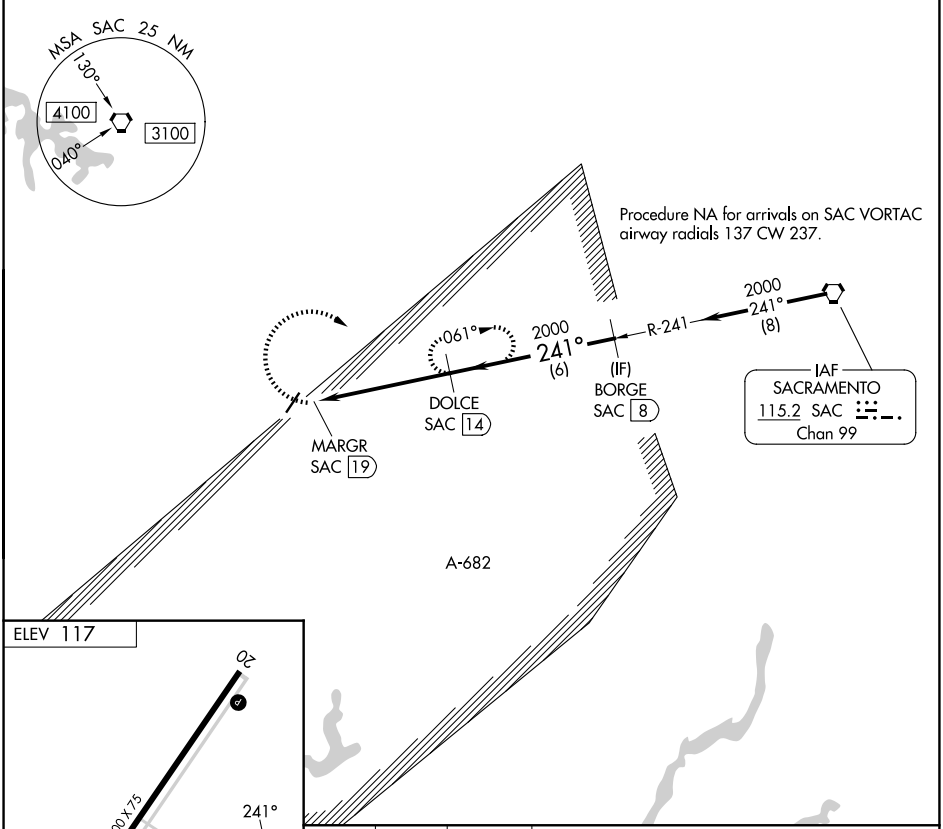
VORTAC SAC	APP CRS	Rwy Ldg	N/A
115.2	241°	TDZE	N/A
Chan 99		Apt Elev	117

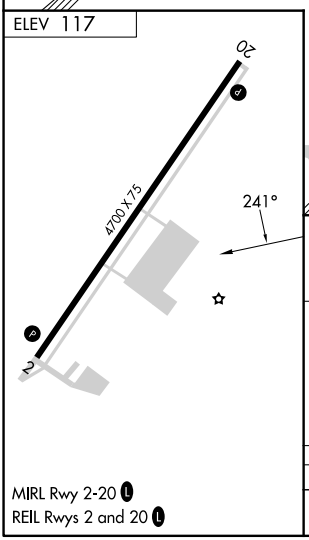
VOR-A
NUT TREE (VCB)

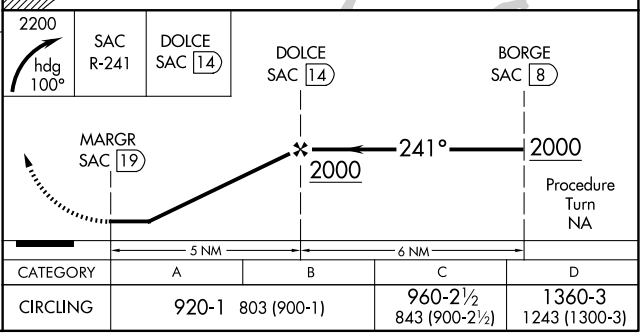
Rwy 2 helicopter visibility reduction below 1 SM NA.
DME required.
Circling Rwy 2 NA at night.
Circling NA west of Rwy 2-20.

MISSED APPROACH: Climbing right turn to 2200 on heading 100° and SAC R-241 to DOLCE/14 DME and hold.

ASOS	TRAVIS APP CON	CTAF
134.75	128.4 281.45	122.85 L







CATEGORY	A	B	C	D
CIRCLING	920-1	803 (900-1)	960-2½ 843 (900-2½)	1360-3 1243 (1300-3)

MIRL Rwy 2-20 L
REIL Rwys 2 and 20 L

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(SOKOY3.SOKOY) 23334
SOKOY THREE DEPARTURE

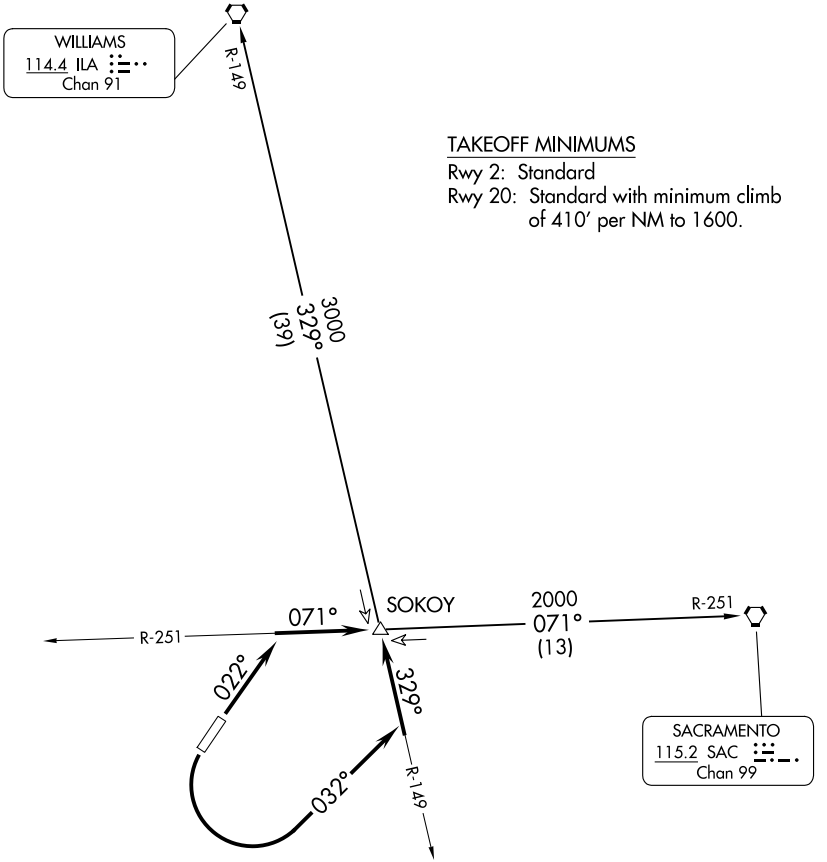
AL-6094 (FAA)

NUT TREE (VCB)
VACAVILLE, CALIFORNIA

SW-2, 09 JUL 2026 to 03 SEP 2026

TRAVIS DEP CON
128.4 281.45

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb via heading 022°, intercept SAC R-251 to SOKOY/ SAC 13 DME.

TAKEOFF RUNWAY 20: Turn left heading 032°, intercept ILA R-149 to SOKOY/ ILA 39 DME.

SACRAMENTO TRANSITION (SOKOY3.SAC): From over SOKOY on SAC R-251 to SAC VORTAC.

WILLIAMS TRANSITION (SOKOY3.ILA): From over SOKOY on ILA R-149 to ILA VORTAC.

LOC/DME I-VIS	APP CRS	Rwy Ldg	5635
108.5	301°	TDZE	293
Chan 22		Apt Elev	293

ILS or LOC RWY 30

VISALIA MUNI (VIS)

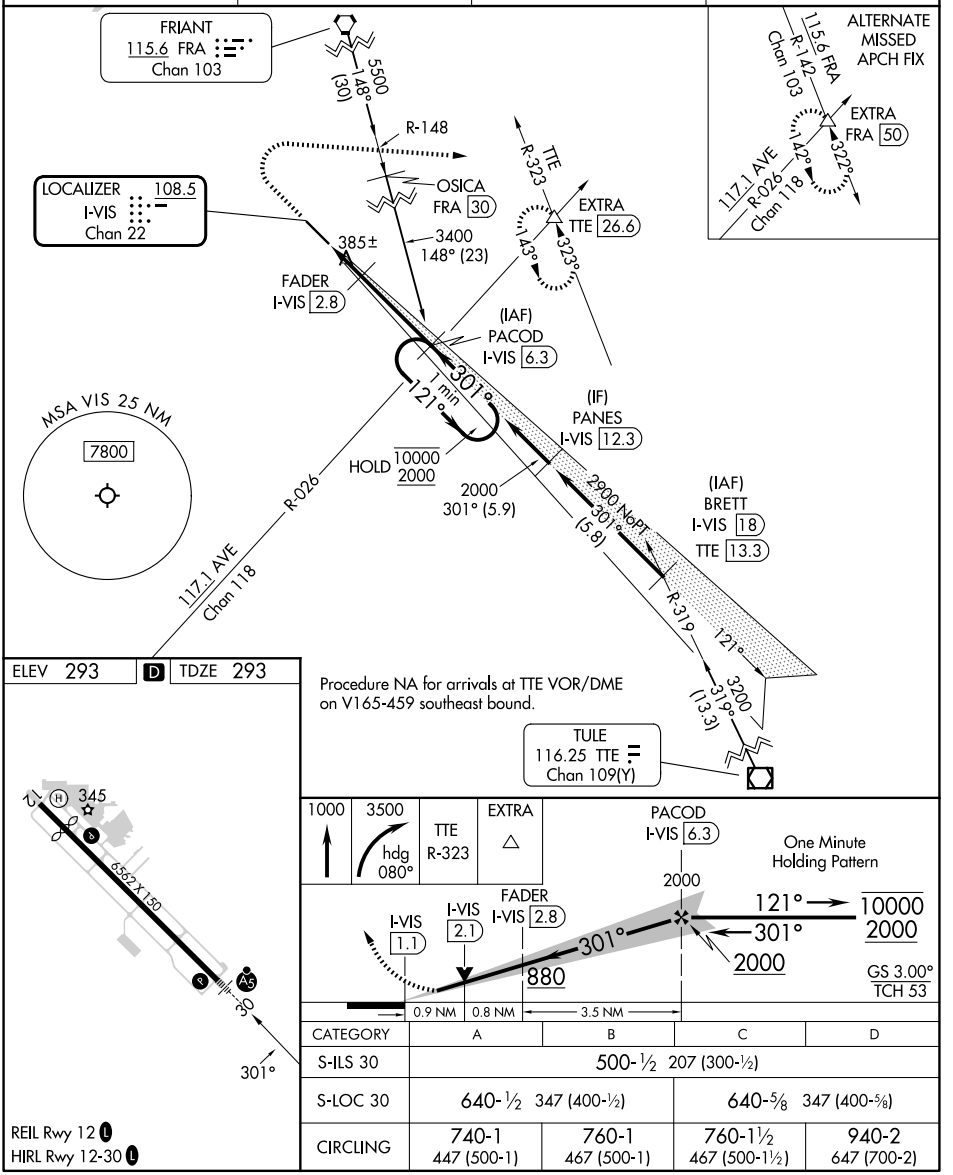
DME required.

For inop ALS, increase S-LOC 30 Cat C/D visibility to 1 SM.

MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 3500 on heading 080° and on TTE VOR/DME R-323 to EXTRA INT/TTE 26.6 DME and hold, continue climb-in-hold to 3500.

AWOS-3PT	FRESNO APP CON	CLNC DEL	UNICOM
119.925	118.5	118.5	123.05 (CTAF) L



ELEV 293 D TDZE 293

REIL Rwy 12 L
HIRL Rwy 12-30 L

CATEGORY	A	B	C	D
S-ILS 30	500-½ 207 (300-½)			
S-LOC 30	640-½ 347 (400-½)		640-⅝ 347 (400-⅝)	
CIRCLING	740-1 447 (500-1)	760-1 467 (500-1)	760-1½ 467 (500-1½)	940-2 647 (700-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VISALIA, CALIFORNIA | AL-558 (FAA) | 26078

WAAS	APP CRS	Rwy Ldg	5635
CH 82423	121°	TDZE	291
W12A		Apt Elev	293

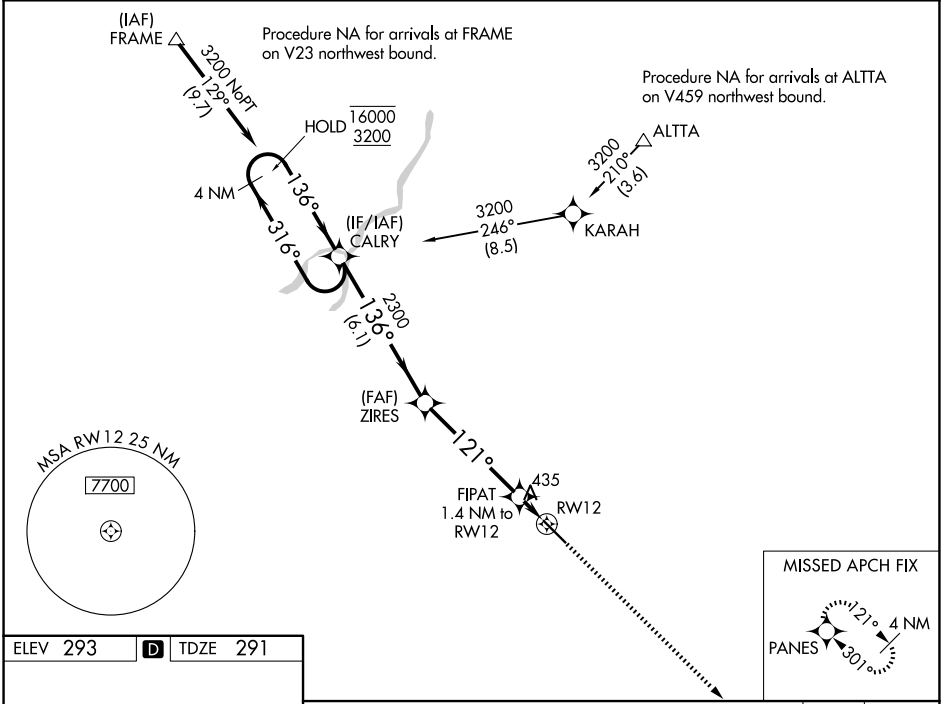
RNAV (GPS) RWY 12
VISALIA MUNI (VIS)

RNP APCH - GPS.

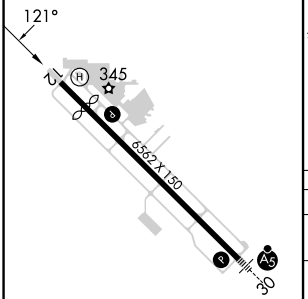
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

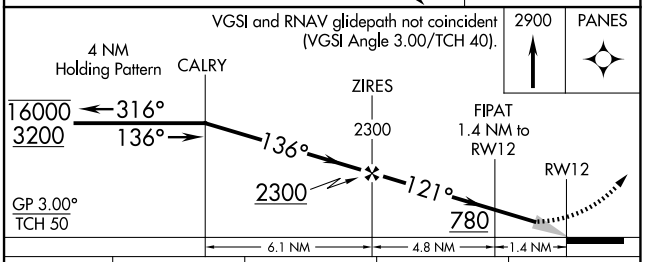
MISSED APPROACH: Climb to 2900 direct PANES and hold.

AWOS-3PT	FRESNO APP CON	CLNC DEL	UNICOM
119.925	118.5	118.5	123.05 (CTAF) L



ELEV 293	D	TDZE 291





CATEGORY	A	B	C	D
LPV DA	541-¾ 250 (300-¾)			
LNAV/VNAV DA	700-1⅛ 409 (500-1⅛)			
LNAV MDA	700-1 409 (500-1)		700-1⅛ 409 (500-1⅛)	
CIRCLING	740-1 447 (500-1)	760-1 467 (500-1)	760-1½ 467 (500-1½)	940-2 647 (700-2)

VISALIA, CALIFORNIA
Amdt 2A 19MAR26

36°19'N-119°24'W

VISALIA MUNI (VIS)
RNAV (GPS) RWY 12

SW-2, 09 JUL 2026 to 03 SEP 2026

WAAS	APP CRS	Rwy Ldg	5635
CH 77623	301°	TDZE	293
W30A		Apt Elev	293

RNAV (GPS) RWY 30
VISALIA MUNI (VIS)

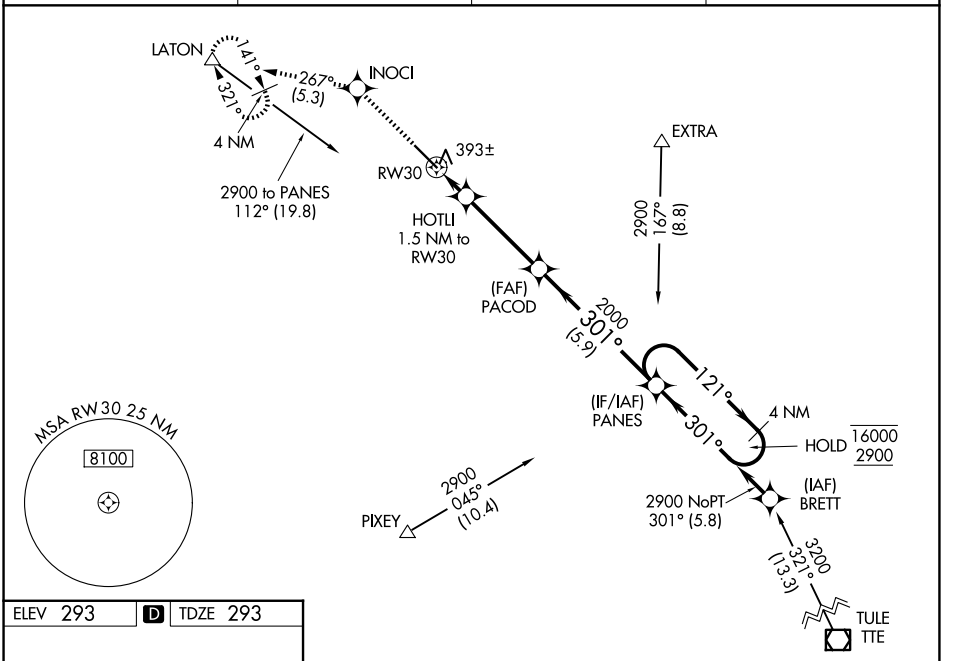
RNP APCH - GPS.

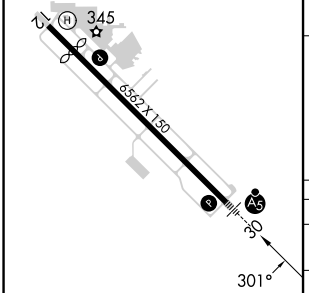
T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to 1 SM, and LNAV Cats C/D to 1 SM.

MALSR A5

MISSED APPROACH: Climb to 3000 direct INOCI and on track 267° to LATON and hold, continue climb-in-hold to 3000.

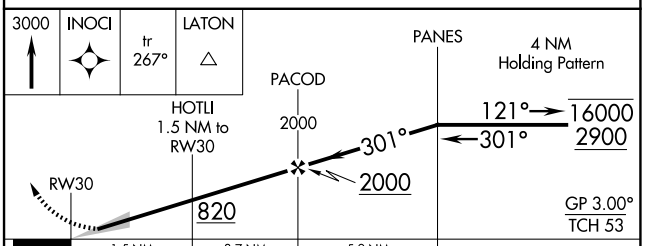
AWOS-3PT	FRESNO APP CON	CLNC DEL	UNICOM
119.925	118.5	118.5	123.05 (CTAF) L





ELEV 293 D TDZE 293

REIL Rwy 12 L
HIRL Rwy 12-30 L



CATEGORY	A	B	C	D
LPV DA	500-½ 207 (300-½)			
LNAV/VNAV DA	656-⅝ 363 (400-⅝)			
LNAV MDA	660-½ 367 (400-½)		660-⅝ 367 (400-⅝)	
CIRCLING	740-1 447 (500-1)	760-1 467 (500-1)	760-1½ 467 (500-1½)	940-2 647 (700-2)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

RNAV (GPS) RWY 2

WATSONVILLE MUNI (WVI)

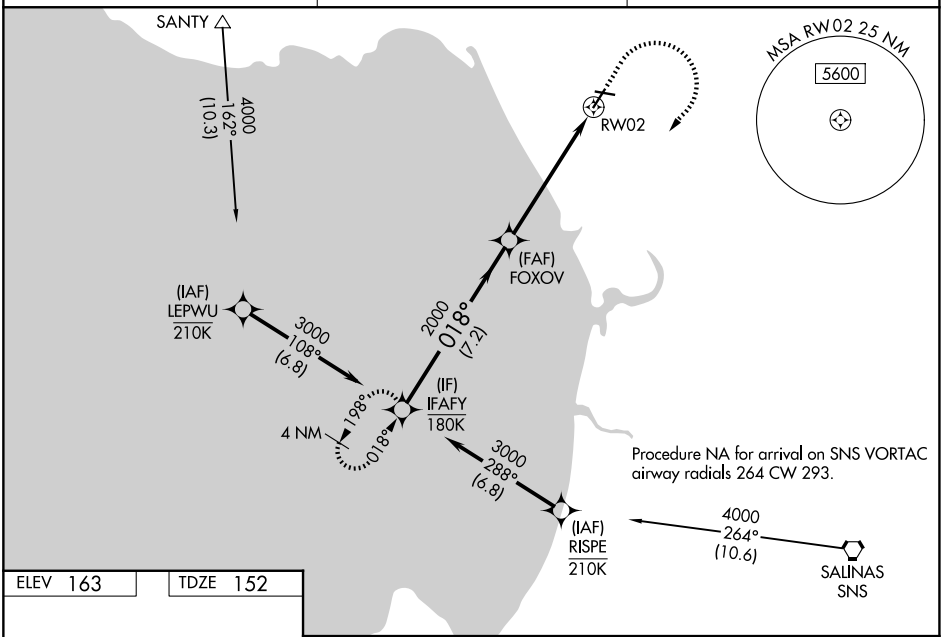
WAAS	APP CRS	Rwy Ldg	4502
CH 50144	018°	TDZE	152
W02A		Apt Elev	163

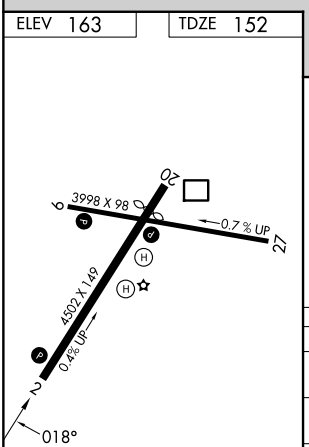
RNP APCH - GPS.

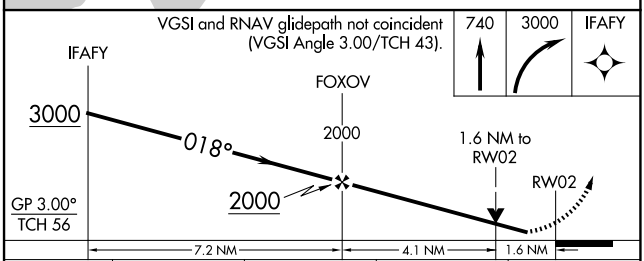
Rwy 2 helicopter visibility reduction below ¾ SM NA. Circling Rwy 9, 27 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C or above 54°C. Circling NA west of Rwy 2-20. Baro-VNAV and VDP NA when using MRY altimeter setting. When local altimeter setting not received, use MRY altimeter setting and increase LPV DA to 464 feet, increase LNAV/VNAV DA to 742 feet, increase all MDAs 80 feet.

MISSED APPROACH: (Do not exceed 200K until IFAFY) Climb to 740 then climbing right turn to 3000 direct IFAFY and hold.

ASOS	NORCAL APP CON	UNICOM
132.275	127.15 307.125	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	402-¾ 250 (300-¾)			
LNAV/VNAV DA	680-1½ 528 (600-1½)			
LNAV MDA	680-1 528 (600-1)		680-1½ 528 (600-1½)	
CIRCLING	680-1 517 (600-1)		680-1½ 517 (600-1½)	1180-3 1017 (1100-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

LOC I-AYN	APP CRS	Rwy Ldg	4502
108.3	018°	TDZE	152
		Apt Elev	163

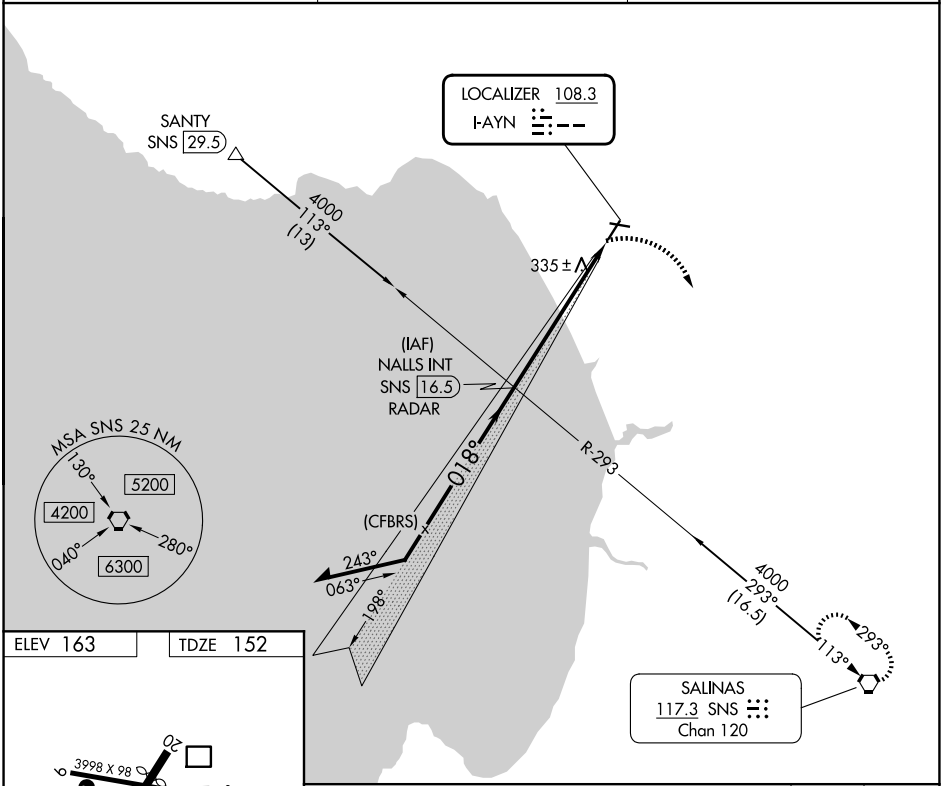
LOC RWY 2

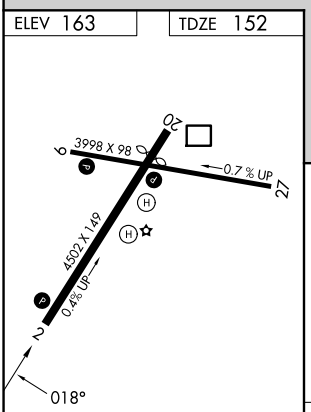
WATSONVILLE MUNI (WVI)

T NA — Rwy 2 helicopter visibility reduction below ¾ SM NA. Circling NA west of Rwy 2-20. Circling Rwy 9, 27 NA at night. When local altimeter setting not received, use Monterey altimeter setting and increase all MDAs 80 feet.

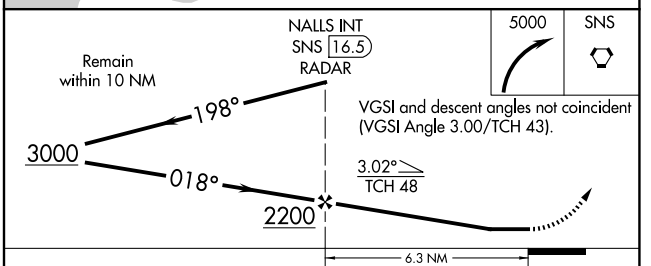
MISSED APPROACH: Climbing right turn to 5000 direct SNS VORTAC and hold, continue climb-in-hold to 5000.

ASOS	NORCAL APP CON	UNICOM
132.275	127.15 307.125	122.8 (CTAF) L





REIL Rwy 2 L
MIRL Rwy 2-20 L



FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

CATEGORY	A	B	C	D
S-2	1140-1¼ 988 (1000-1¼)	1140-1½ 988 (1000-1½)	1140-3 988 (1000-3)	
CIRCLING	1140-1¼ 977 (1000-1¼)	1140-1½ 977 (1000-1½)	1140-3 977 (1000-3)	1160-3 997 (1000-3)

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WATSONVILLE, CALIFORNIA | AL-805 (FAA) | 25219

VORTAC SNS	APP CRS	Rwy Ldg	N/A
117.3	314°	TDZE	N/A
Chan 120		Apt Elev	163

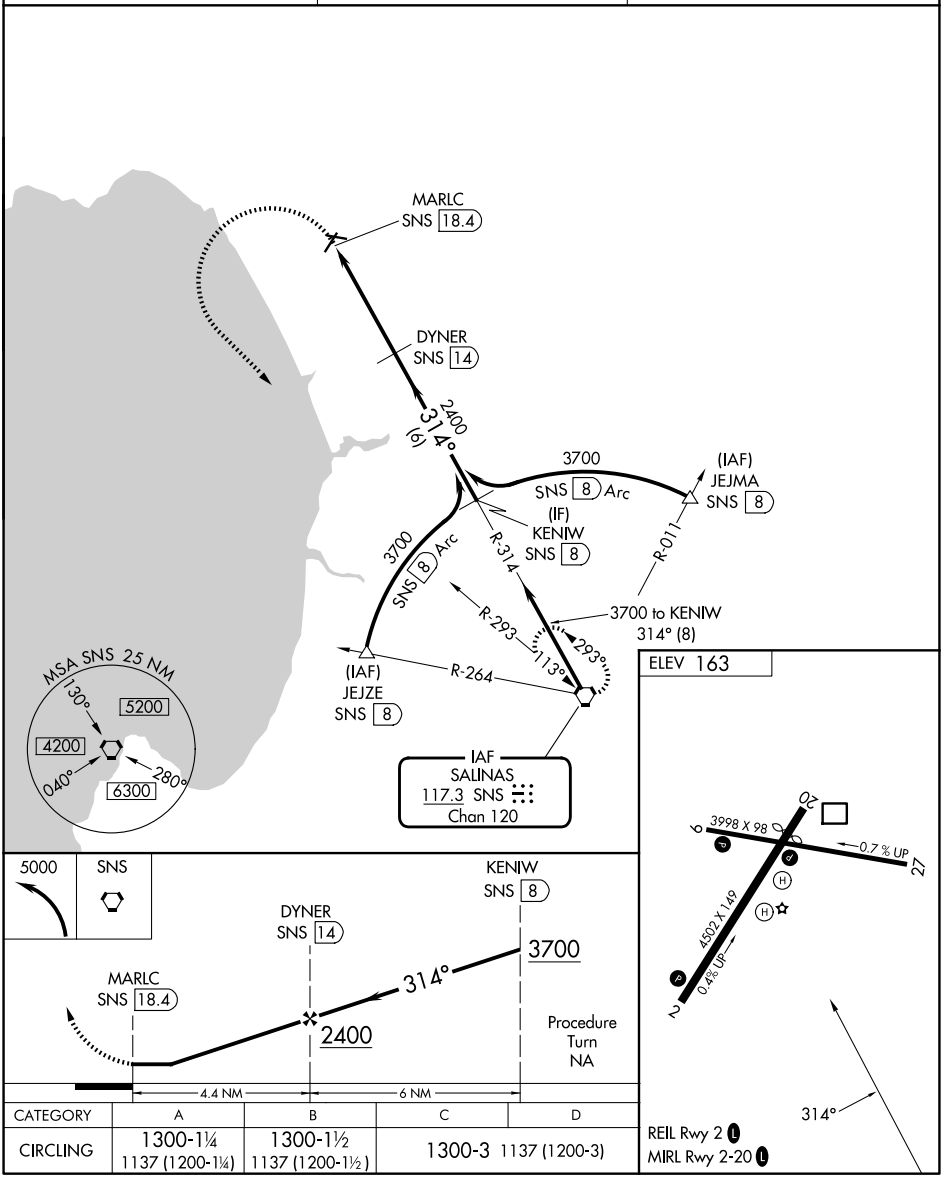
VOR-A

WATSONVILLE MUNI (WVI)

Circling NA west of Rwy 2-20. When local altimeter setting not received, use Monterey altimeter setting and increase all MDAs 80 feet. DME required. Circling Rwy 27 NA at night.

MISSED APPROACH: Climbing left turn to 5000 direct SNS VORTAC and hold, continue climb-in-hold to 5000.

ASOS	NORCAL APP CON	UNICOM
132.275	127.15 307.125	122.8 (CTAF) L



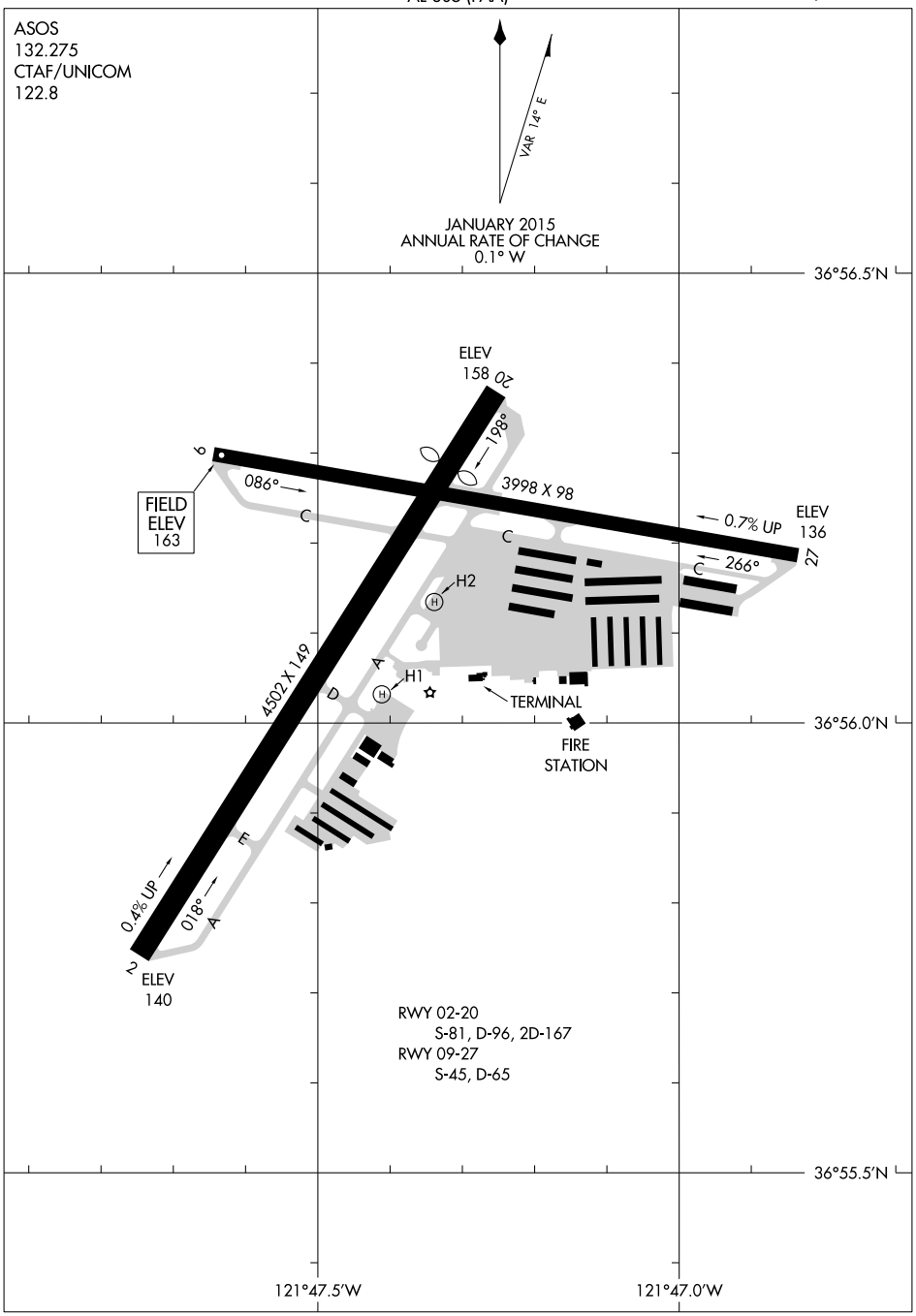
CATEGORY	A	B	C	D
CIRCLING	1300-1¼ 1137 (1200-1¼)	1300-1½ 1137 (1200-1½)	1300-3 1137 (1200-3)	

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM

WATSONVILLE MUNI (WVI)

WATSONVILLE, CALIFORNIA



SW-2, 09 JUL 2026 to 03 SEP 2026

AIRPORT DIAGRAM
26190

WATSONVILLE, CALIFORNIA
WATSONVILLE MUNI (WVI)

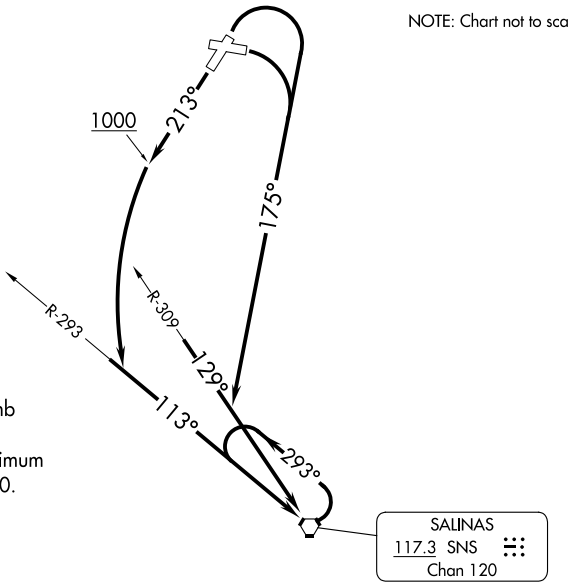
(WVI4.WVI) 24025 AL-805 (FAA)

WATSONVILLE FOUR DEPARTURE (OBSTACLE)

WATSONVILLE MUNI (WVI)
WATSONVILLE, CALIFORNIA

ASOS
132.275
NORCAL DEP CON
127.15 307.125
CTAF
122.8

NOTE: Chart not to scale.



TAKEOFF MINIMUMS

Rwy 27: NA - Airport Obstacles.
Rwy 20: Standard.
Rwy 2: Standard with minimum climb of 500′ per NM to 2600.
Rwy 9: 300-1 or standard with minimum climb of 270′ per NM to 400.

TAKEOFF OBSTACLE NOTES

Rwy 2: Lighting 8′ from DER, 84′ left of centerline, 1′ AGL/159′ MSL. Lighting 9′ from DER, 84′ right of centerline, 158′ MSL. Pole 14′ from DER, 349′ left of centerline, 205′ MSL. Pole, building, vehicles on road, tree and fence beginning 15′ from DER, 322′ left of centerline, up to 50′ AGL/213′ MSL. Trees beginning 278′ from DER, 414′ right of centerline, up to 188′ MSL. Pole, vehicles on road, stack, tree and building beginning 429′ from DER, 157′ left of centerline, up to 58′ AGL/220′ MSL. Pole, building and tree beginning 808′ from DER, 22′ right of centerline, up to 40′ AGL/198′ MSL. Tree and transmission line beginning 1021′ from DER, 137′ right of centerline, up to 222′ MSL. Pole 1174′ from DER, 328′ right of centerline, 57′ AGL/224′ MSL. Trees beginning 1275′ from DER, 298′ right of centerline, up to 242′ MSL. Tree 1345′ from DER, 320′ left of centerline, 236′ MSL. Tree 2249′ from DER, 371′ left of centerline, 264′ MSL.

Rwy 9: Tree and pole beginning 1′ from DER, 152′ left of centerline, up to 157′ MSL. Pole 65′ from DER, 301′ right of centerline, 31′ AGL/148′ MSL. Tree, fence, building, vehicles on road and pole beginning 74′ from DER, 251′ left of centerline, up to 160′ MSL. Pole, tree, building, tank and stack beginning 210′ from DER, 139′ left of centerline, up to 177′ MSL. Pole 231′ from DER, 250′ right of centerline, 32′ AGL/153′ MSL. Trees beginning 312′ from DER, 560′ right of centerline, up to 173′ MSL. Tower, pole and tree beginning 828′ from DER, 136′ left of centerline, up to 52′ AGL/181′ MSL. Trees beginning 915′ from DER, 146′ right of centerline, up to 197′ MSL. Tree 1815′ from DER, 365′ left of centerline, 215′ MSL. Tower 4697′ from DER, 1365′ right of centerline, 189′ AGL/292′ MSL.

Rwy 20: Tree 57′ from DER, 500′ left of centerline, 153′ MSL. Fence 57′ from DER, 268′ right of centerline, 7′ AGL/143′ MSL. Pole 95′ from DER, 467′ left of centerline, 175′ MSL. Pole, vehicles on road and tree beginning 96′ from DER, 377′ left of centerline, up to 50′ AGL/183′ MSL. Transmission line 848′ from DER, 505′ left of centerline, 44′ AGL/184′ MSL. Tree and transmission line beginning 919′ from DER, 520′ left of centerline, up to 190′ MSL. Tree 1153′ from DER, 286′ right of centerline, 169′ MSL. Tree 1207′ from DER, 615′ left of centerline, 197′ MSL. Tree, building and transmission line beginning 1267′ from DER, 318′ left of centerline, up to 203′ MSL. Tree 1336′ from DER, 7′ right of centerline, 177′ MSL. Tree 1337′ from DER, 46′ right of centerline, 192′ MSL. Tree 2201′ from DER, 776′ right of centerline, 240′ MSL.

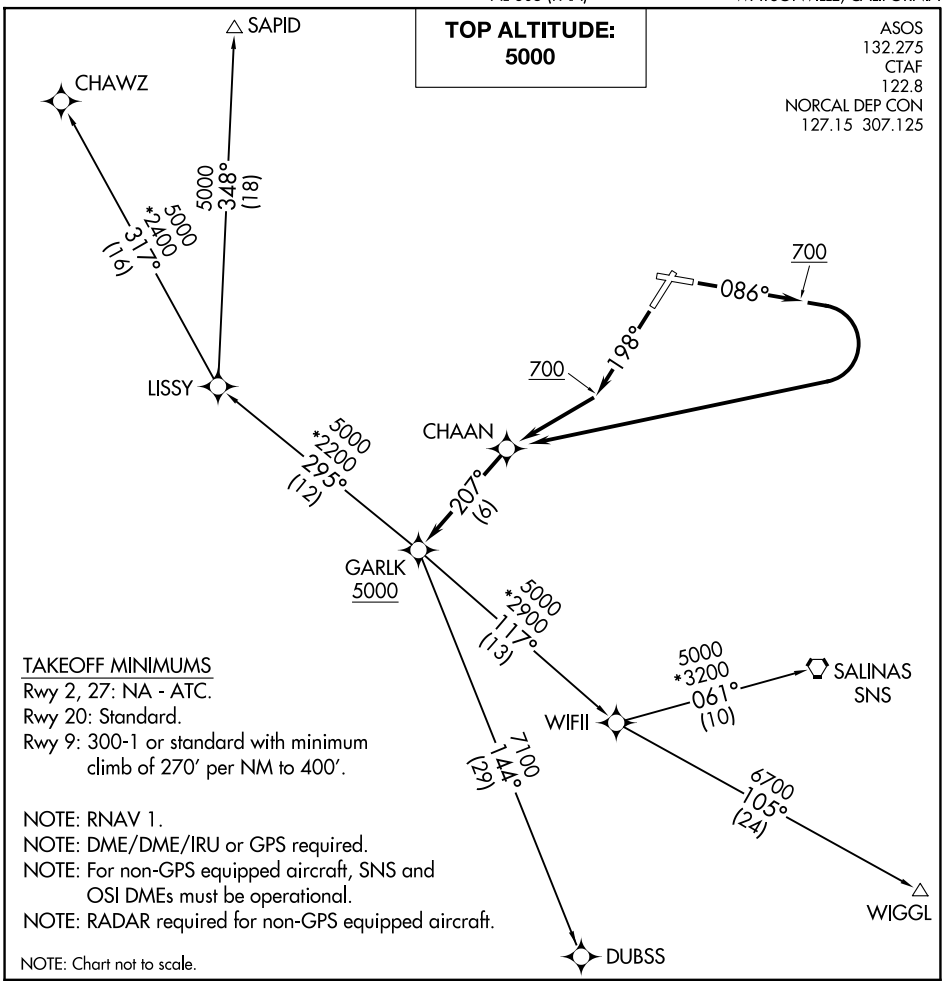
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 2 and 9: Climbing right turn on heading 175° to intercept SNS VORTAC R-309 to SNS VORTAC, thence . . . .

TAKEOFF RUNWAY 20: Climb heading 213° to 1000, then climbing left turn to intercept SNS VORTAC R-293 to SNS VORTAC, thence . . . .

. . . . continue climb in SNS holding pattern to cross SNS VORTAC at or above MEA/MCA for route of flight.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026



SW-2, 09 JUL 2026 to 03 SEP 2026

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb heading 086° to 700, then right turn direct CHAAN, thence. . . .

TAKEOFF RUNWAY 20: Climb heading 198° to 700, then direct CHAAN, thence. . . .

. . . . on track 207° to cross GARLK at or above 5000, then on (transition).

CHAWZ TRANSITION (GARLK1.CHAWZ)
DUBSS TRANSITION (GARLK1.DUBSS)
SALINAS TRANSITION (GARLK1.SNS)
SAPID TRANSITION (GARLK1.SAPID)
WIGGL TRANSITION (GARLK1.WIGGL)

WEED, CALIFORNIA | AL-10021 (FAA) | 26022

RNAV (GPS) RWY 14

WEED (O46)

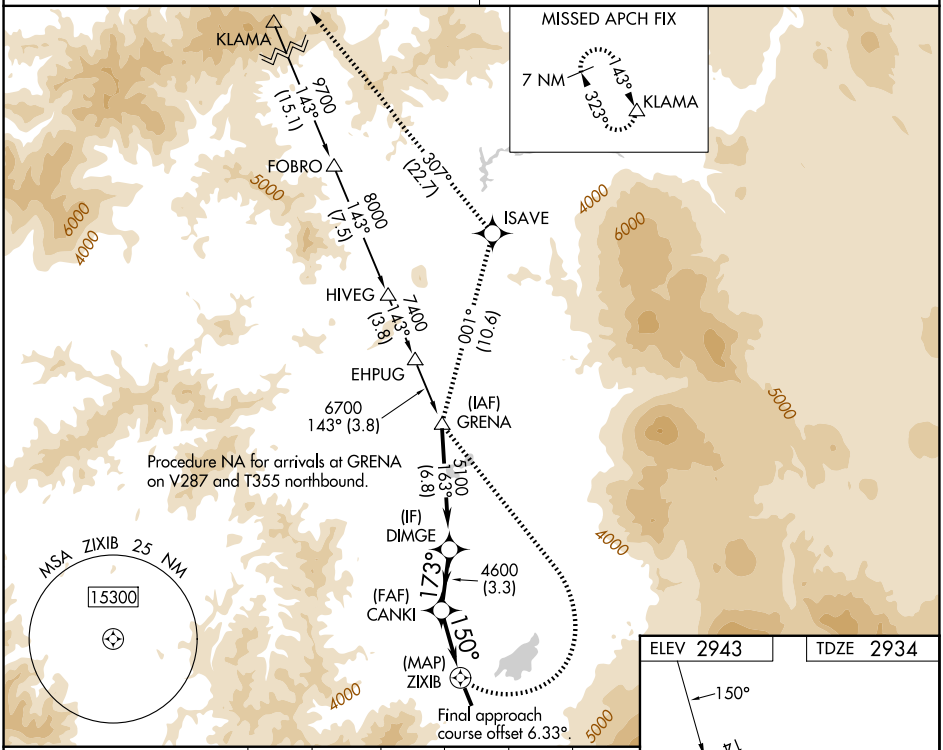
APP CRS	Rwy Ldg	5000
150°	TDZE	2934
	Apt Elev	2943

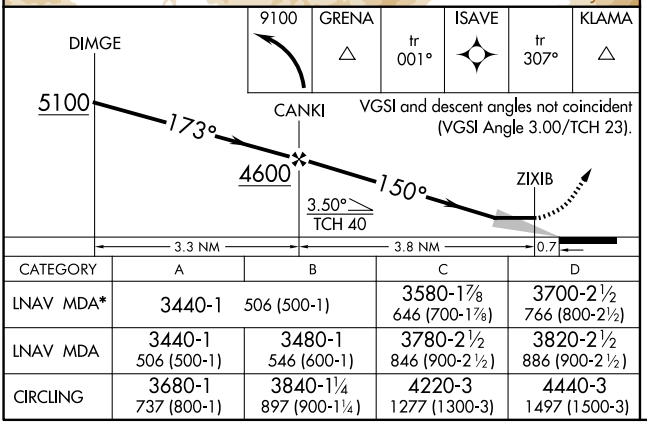
RNP APCH - GPS.

Circling NA southwest of Rwy 14-32.
Use Montague altimeter setting.

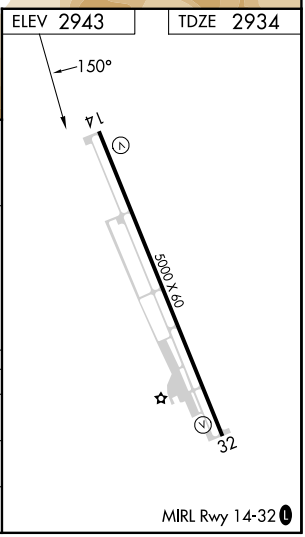
MISSED APPROACH: (Do not exceed 185K until GRENA) Climbing left turn to 9100 direct GRENA then on track 001° to ISAVE then on track 307° to KLAMA and hold.
*Missed approach requires minimum climb of 325 feet per NM to 4000.

SEATTLE CENTER	UNICOM
124.85 306.3	122.7 (CTAF) L



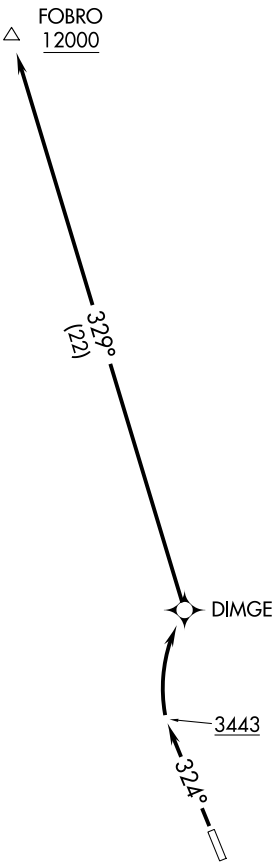


CATEGORY	A	B	C	D
LNAV MDA*	3440-1 506 (500-1)		3580-1⅞ 646 (700-1⅞)	3700-2½ 766 (800-2½)
LNAV MDA	3440-1 506 (500-1)	3480-1 546 (600-1)	3780-2½ 846 (900-2½)	3820-2½ 886 (900-2½)
CIRCLING	3680-1 737 (800-1)	3840-1¼ 897 (900-1¼)	4220-3 1277 (1300-3)	4440-3 1497 (1500-3)



SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

SEATTLE CENTER
124.85 306.3
UNICOM
122.7



NOTE: RNAV 1.
NOTE: GPS required.

TAKEOFF MINIMUMS
Rwy 14: NA-obstacles.
Rwy 32: Standard with minimum climb of 325' per NM to 12000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 32: Climb heading 324° to 3443, then right turn direct DIMGE, then on track 329° to cross FOBRO at or above 12000 or as assigned by ATC.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WILLITS, CALIFORNIA | AL-9480 (FAA) | 26078

APP CRS		
145°	Rwy Ldg	2705
	TDZE	2066
	Apt Elev	2066

RNAV (GPS) RWY 16

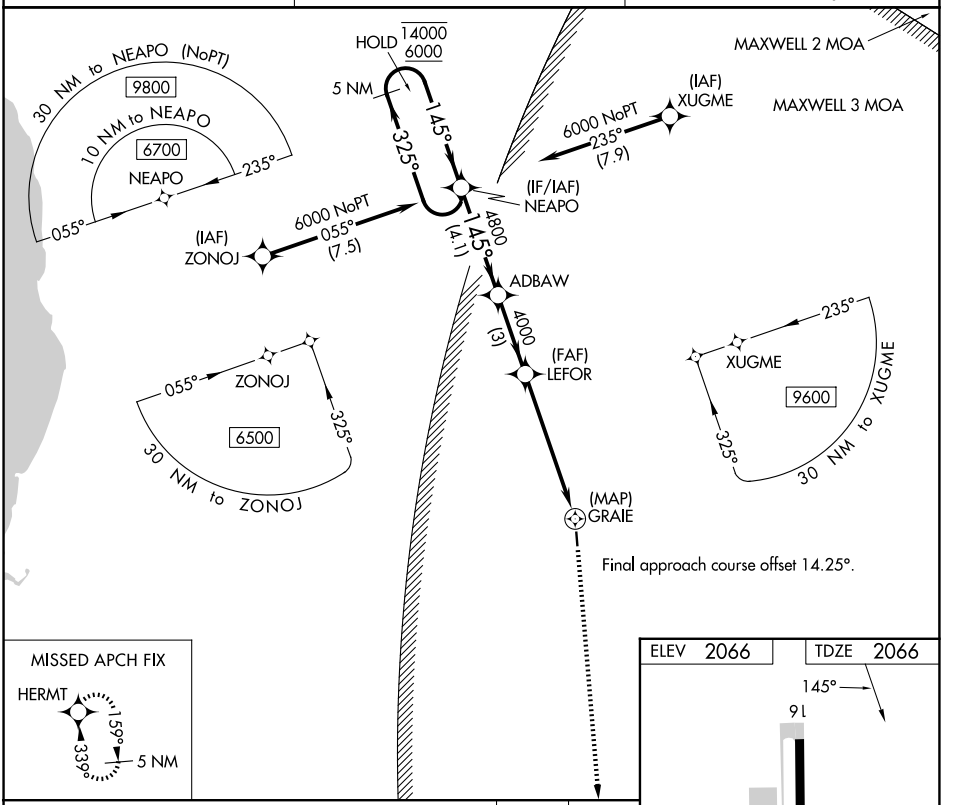
ELLS FLD/WILLITS MUNI (O28)

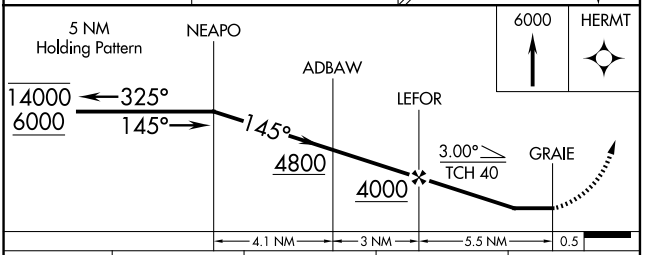
RNP APCH - GPS.

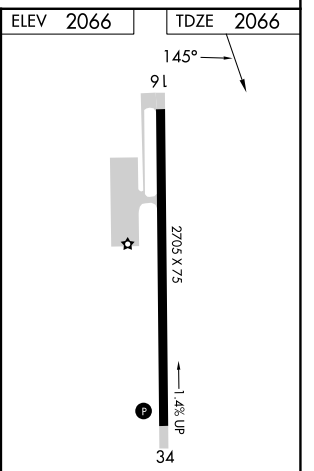
NA Procedure NA at night. Circling NA west of Rwy 16-34. Use Ukiah altimeter setting; when not received, procedure NA. Rwy 16 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 6000 direct HERMT and hold.

UKI ASOS	OAKLAND CENTER	UNICOM
119.275	132.2 350.3	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	3620-1¼ 1554 (1600-1¼)	3620-1½ 1554 (1600-1½)	3620-3 1554 (1600-3)	NA
CIRCLING	3620-1¼ 1554 (1600-1¼)	3620-1½ 1554 (1600-1½)	3620-3 1554 (1600-3)	NA

WILLITS, CALIFORNIA
Amdt 2 02DEC21

39°27'N-123°22'W

ELLS FLD/WILLITS MUNI (O28)

RNAV (GPS) RWY 16

SW-2, 09 JUL 2026 to 03 SEP 2026

APP CRS		
339°	Rwy Ldg	2705
	TDZE	2066
	Apt Elev	2066

RNAV (GPS) RWY 34

ELLS FLD/WILLITS MUNI (O28)

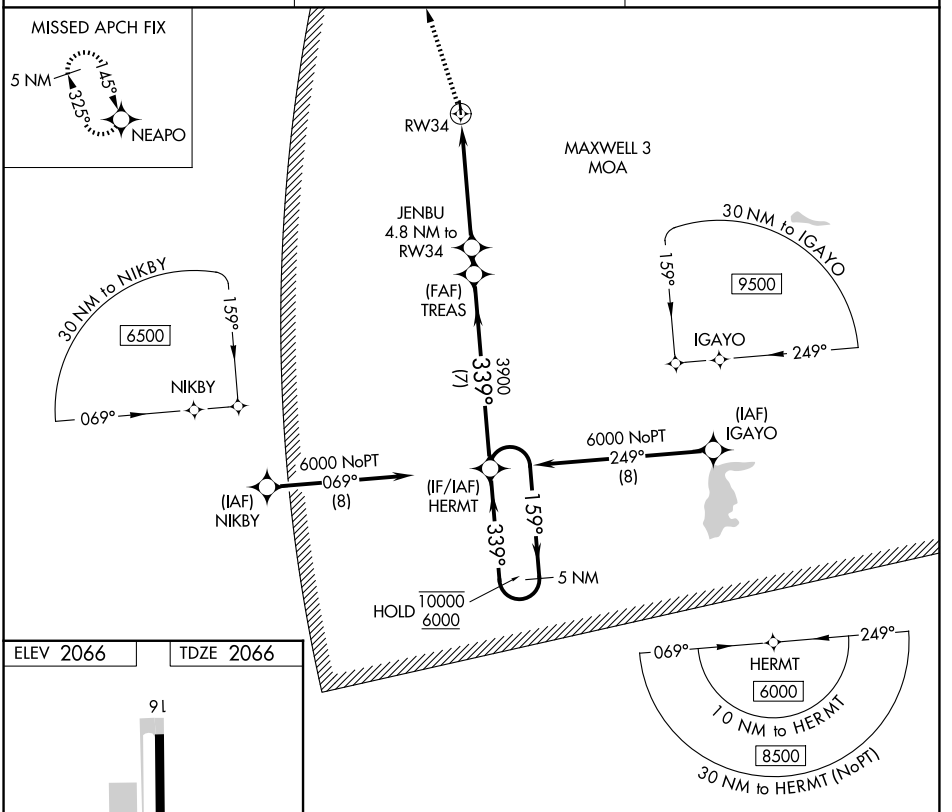
RNP APCH - GPS.

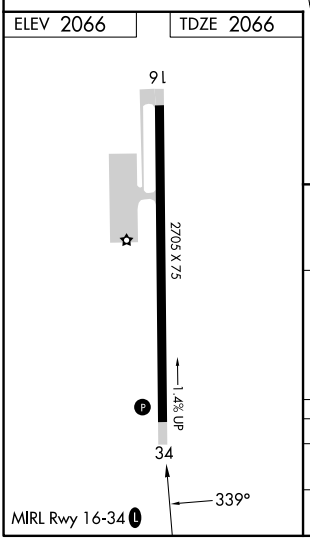
Circling NA west of Rwy 16-34. Rwy 34 helicopter visibility reduction below 1 SM NA. Procedure NA at night. Use Ukiah altimeter setting; when not received, procedure NA.

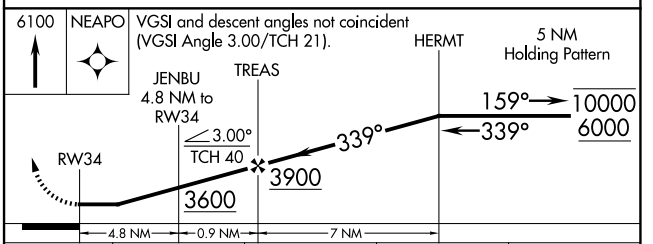
NA

MISSED APPROACH: Climb to 6100 direct NEAPO and hold, continue climb-in-hold to 6100.

UKI ASOS	OAKLAND CENTER	UNICOM
119.275	132.2 350.3	122.8 (CTAF) L







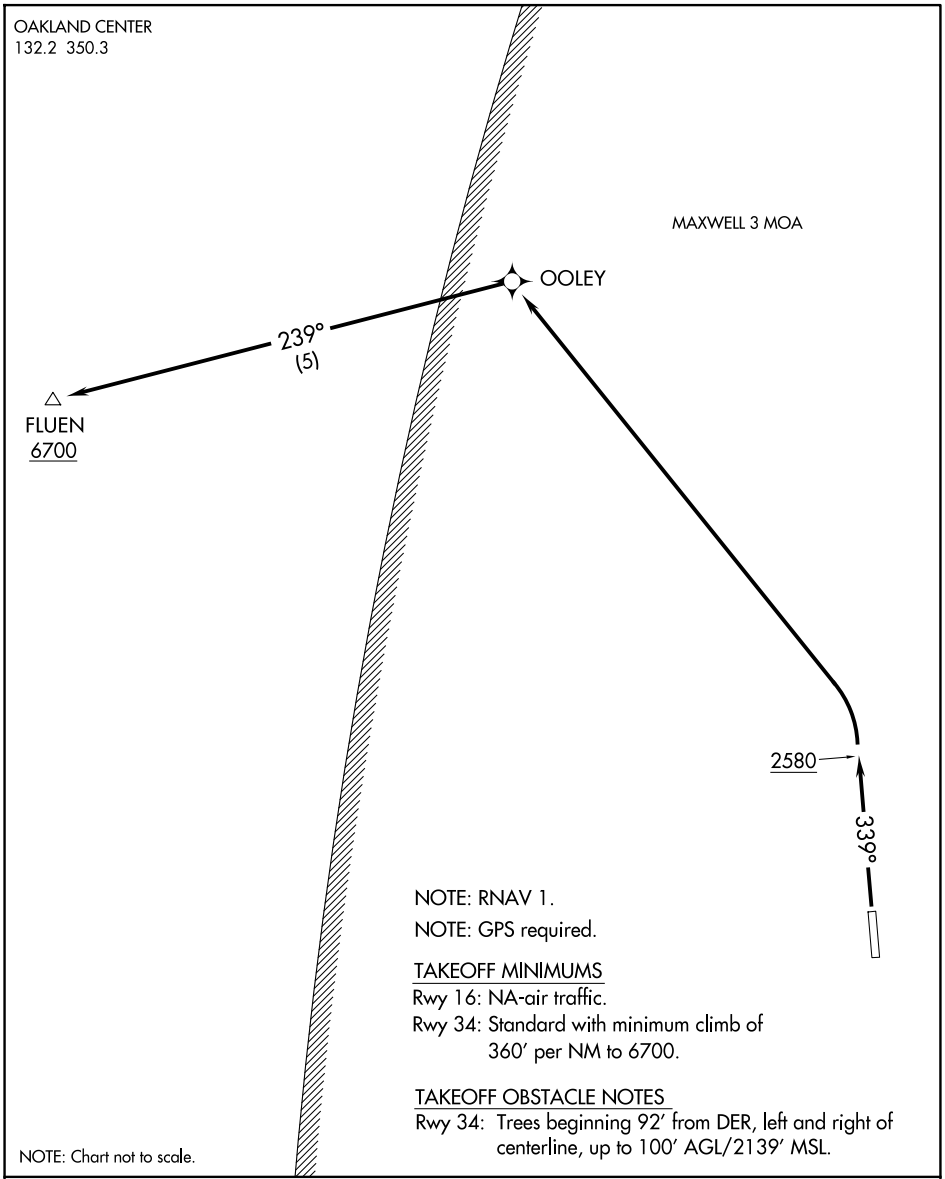
CATEGORY	A	B	C	D
LNAV MDA	3060-1¼ 994 (1000-1¼)	3060-1½ 994 (1000-1½)	3060-3 994 (1000-3	NA
CIRCLING	3060-1¼ 994 (1000-1¼)	3060-1½ 994 (1000-1½)	3580-3 1514 (1600-3)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

(FLUEN2.FLUEN) 21336

FLUEN TWO DEPARTURE (OBSTACLE) (RNAV)

ELLS FLD/WILLITS MUNI (O28)
AL-9480 (FAA) WILLITS, CALIFORNIA

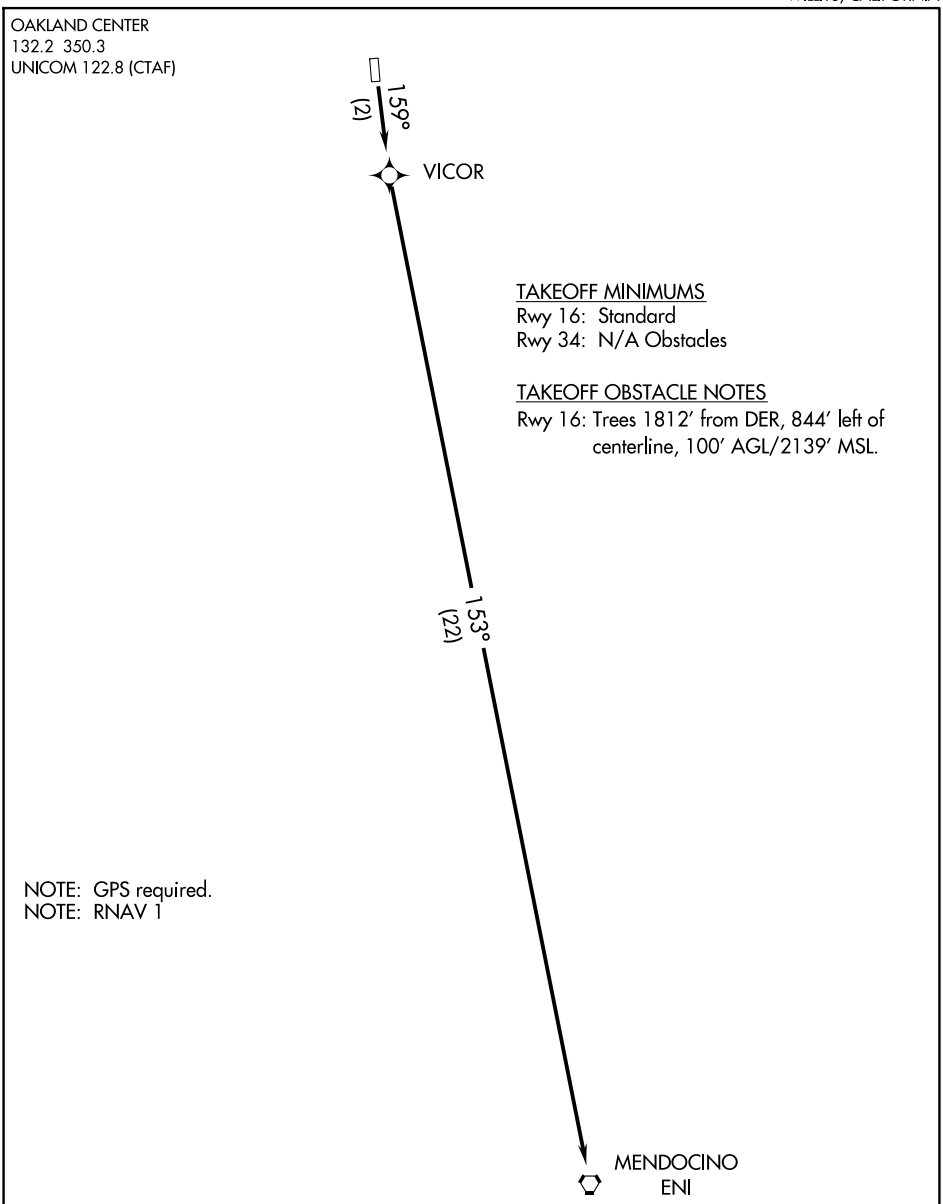


DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 34: Climb heading 339° to 2580, then left turn direct OOLEY, and on track 239° to cross FLUEN at or above 6700.

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

MENDOCINO ONE DEPARTURE (OBSTACLE) (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16: Climb to 6000 direct VICOR WP, then via 153° track to ENI VORTAC, thence proceed on course.

MENDOCINO ONE DEPARTURE (OBSTACLE) (RNAV)
WILLITS, CALIFORNIA
ELLS FLD/WILLITS MUNI (O28)
(ENI1.ENI) 05AUG04

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WILLOWS, CALIFORNIA AL-5296 (FAA) 26022

WAAS	APP CRS	Rwy Ldg	4125
CH 78422	344°	TDZE	138
W34A		Apt Elev	141

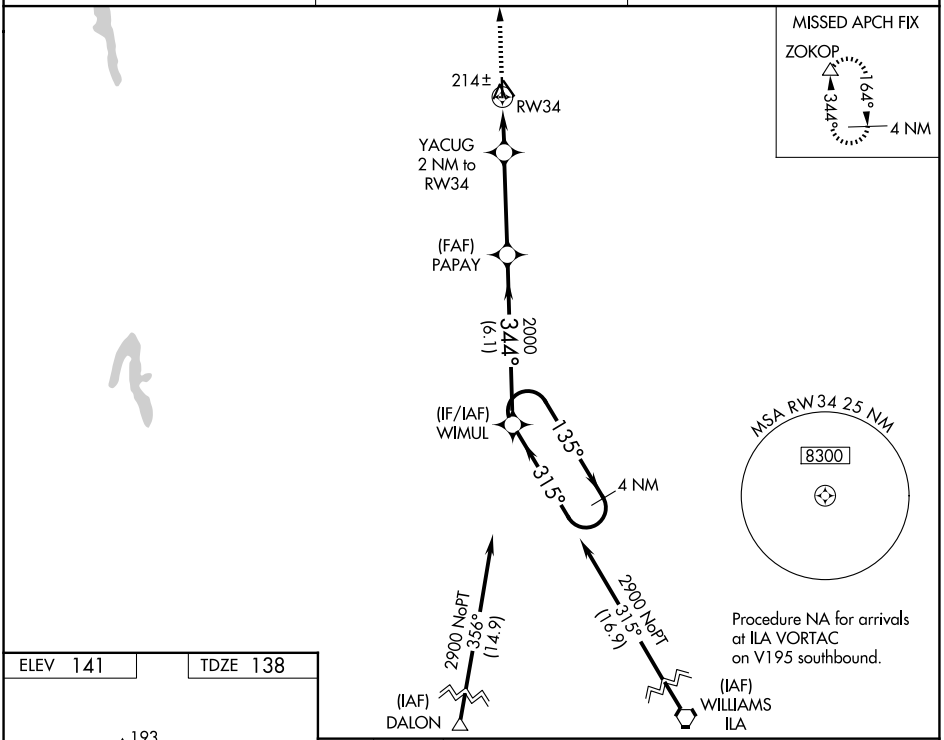
RNAV (GPS) RWY 34

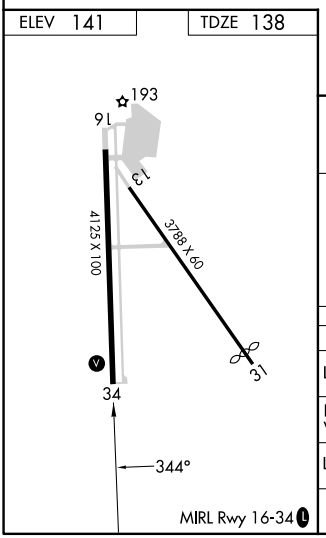
WILLOWS/GLENN COUNTY (WLW)

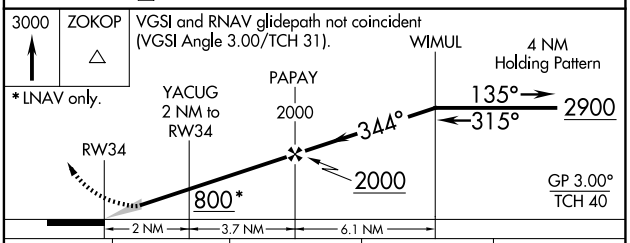
T NA — When Oroville Muni altimeter setting not received, procedure NA. Baro-VNAV NA. DME/DME RNP-0.3 NA. Use Oroville altimeter setting.

MISSED APPROACH: Climb to 3000 direct ZOKOP and hold.

OVE ASOS	OAKLAND CENTER	UNICOM
121.425	132.2 350.3	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	460-1⅛ 322 (400-1⅛)			NA
LNAV/VNAV DA	460-1⅛ 322 (400-1⅛)			NA
LNAV MDA	540-1 402 (400-1)		540-1⅛ 402 (400-1⅛)	NA
CIRCLING	680-1 539 (600-1)		680-1½ 539 (600-1½)	NA

WILLOWS, CALIFORNIA
Orig-B 22JUN17

39°31′N-122°13′W

WILLOWS/GLENN COUNTY (WLW)
RNAV (GPS) RWY 34

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

VOR RWY 34

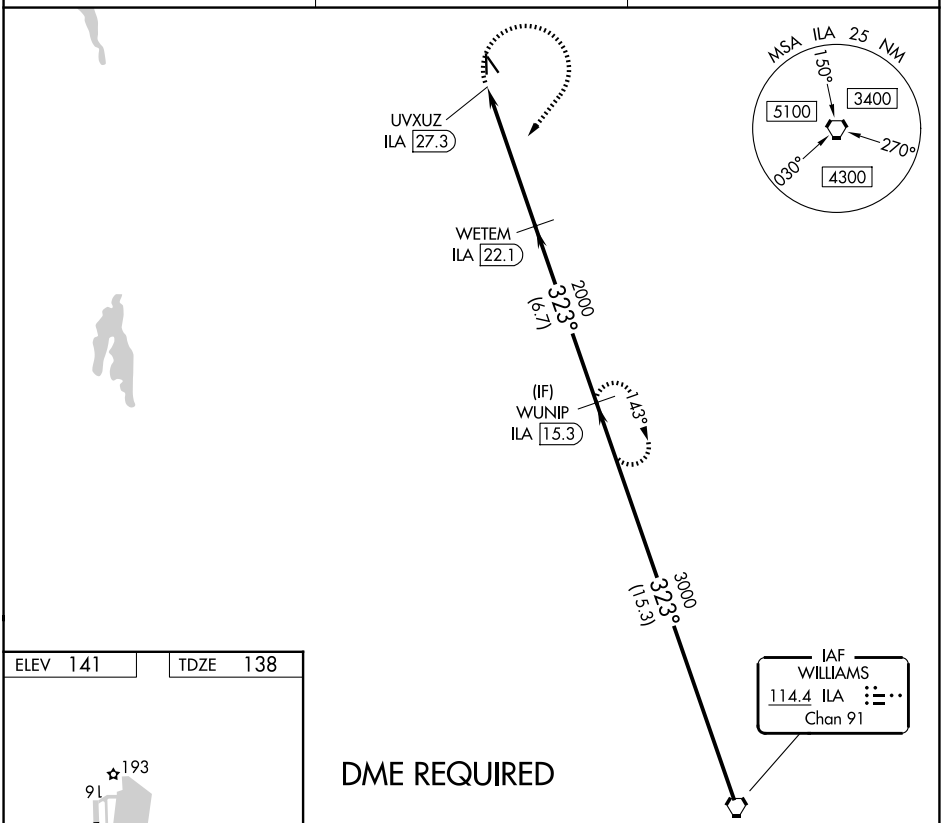
WILLOWS/GLENN COUNTY (WLW)

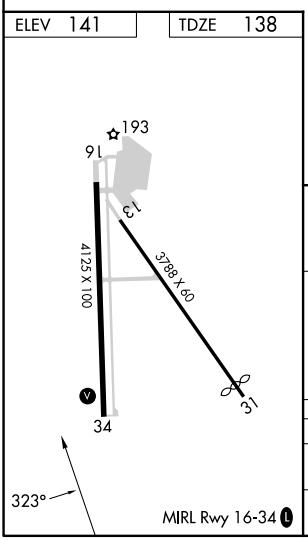
VORTAC ILA	APP CRS	Rwy Ldg	4125
114.4	323°	TDZE	138
Chan 91		Apt Elev	141

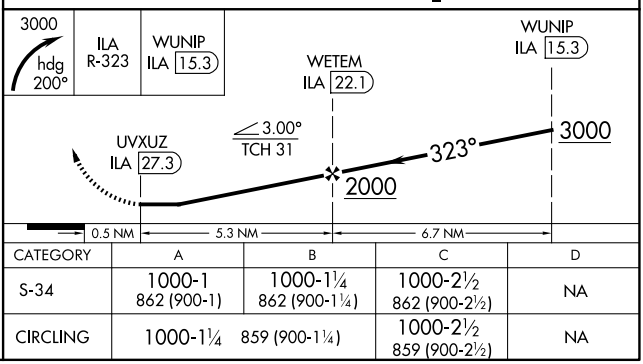
When Oroville Muni altimeter setting not received, procedure NA.
DME required.
Use Oroville Muni altimeter setting.

MISSED APPROACH: Climbing right turn to 3000 on heading 200° and on ILA VORTAC R-323 to WUNIP/ILA 15.3 DME and hold.

OVE ASOS	OAKLAND CENTER	UNICOM
121.425	132.2 350.3	122.8 (CTAF)







CATEGORY	A	B	C	D
S-34	1000-1 862 (900-1)	1000-1¼ 862 (900-1¼)	1000-2½ 862 (900-2½)	NA
CIRCLING	1000-1¼ 859 (900-1¼)		1000-2½ 859 (900-2½)	NA

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

WOODLAND, CALIFORNIA AL-6353 (FAA) 24193

APP CRS	Rwy Idg	3244
004°	TDZE	125
	Apt Elev	125

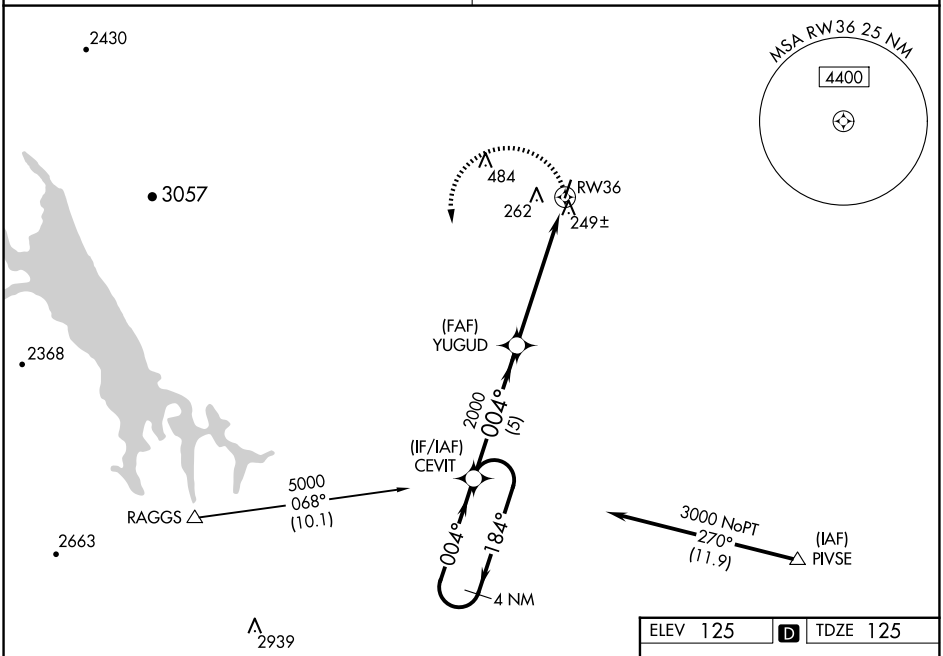
RNAV (GPS) RWY 36

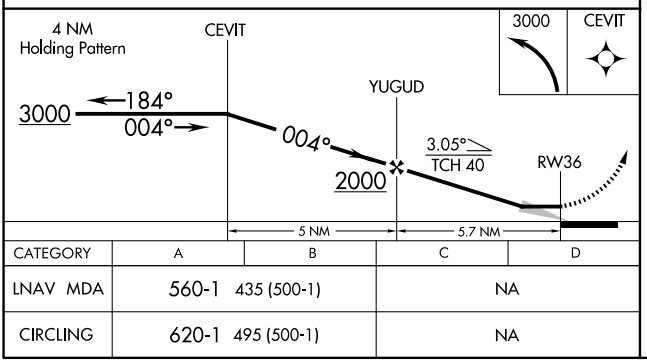
WATTS-WOODLAND (041)

T NA — DME/DME RNP- 0.3 NA.
Procedure NA at night.
Use Sacramento Intl altimeter setting; when not received, use Sacramento Exec altimeter setting and increase all MDA 20 feet.

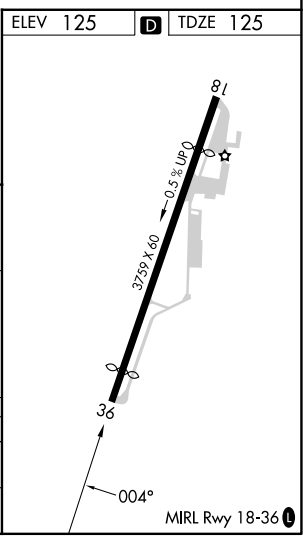
MISSED APPROACH: Climbing left turn to 3000 direct CEVIT and hold.

TRAVIS APP CON	UNICOM
126.6 281.45	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	560-1	435 (500-1)	NA	
CIRCLING	620-1	495 (500-1)	NA	



WOODLAND, CALIFORNIA
Orig 07MAY09

38°40'N-121°52'W

WATTS-WOODLAND (041)
RNAV (GPS) RWY 36

SW-2, 09 JUL 2026 to 03 SEP 2026
SW-2, 09 JUL 2026 to 03 SEP 2026

INSIDE BACK COVER

INTENTIONALLY

LEFT

BLANK

FAA Product ID: BTPPSW2

NSN 7641015059598

NGA REF. NO. OK-10-2859 TERMXFAABTPPSW2

EFF. DATE 26190