Federal Aviation Administration

TM

U.S. Terminal Procedures Publication

Southwest (SW) Vol 3 of 4

Effective: 0901Z

05 NOV 2020

to: 0901Z

31 DEC 2020

Consult the Change Notice (CN) effective 03 DEC 2020 for revised Instrument Procedure Charts for this volume

Consult NOTAMs for latest information

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CORRECTIONS, COMMENTS AND/OR PROCUREMENT

FOR CHARTING ERRORS, OR FOR CHANGES, ADDITIONS, RECOMMENDATIONS ON PROCEDURAL ASPECTS CONTACT:
FAA, Aeronautical Information Services
1305 East-West Highway
SSMC 4, Room 3424
Silver Spring, MD 20910
Telephone: 1-800-638-8972
https://www.faa.gov/air_traffic/flight_info/aeronav/aero_data/

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

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Frequently asked questions (FAQ) are answered on our website at https://www.faa.gov/go/ais
See the FAQs prior to contact via toll free number or email.

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

INOP COMPONENTS 19339

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.

(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

INOP COMPONENTS 19339

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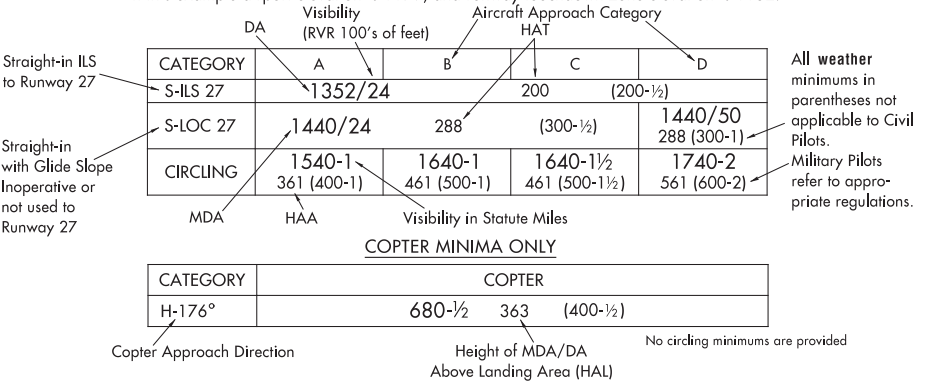
TERMS/LANDING MINIMA DATA 20142

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

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

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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 tables below. The resultant arcs are then connected tangentially to define the protected area.

STANDARD CIRCLING APPROACH MANEUVERING RADIUS

Circling approach protected areas developed prior to late 2012 used the radius distances shown in the following table, expressed in nautical miles (NM), dependent on aircraft approach category. The approaches using standard circling approach areas can be identified by the absence of the C symbol on the circling line of minima.

Circling MDA in feet MSL	Approach Category and Circling Radius (NM)				
	CAT A	CAT B	CAT C	CAT D	CAT E
All Altitudes	1.3	1.5	1.7	2.3	4.5

C EXPANDED CIRCLING APPROACH MANEUVERING AIRSPACE RADIUS

Circling approach protected areas developed after late 2012 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. The approaches using expanded circling approach areas can be identified by the presence of the C symbol on the circling line of minima.

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

Comparable Values of RVR and Visibility

The following table shall be used for converting RVR to ground or flight visibility. For converting 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)
1600	¼	2400	½	3500	⅝	5500	1
1800	½	2600	½	4000	¾	6000	1¼
2000	½	3000	⅝	4500	⅞		
2200	½	3200	⅝	5000	1		

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	(100-¼)				
	28	2.5°/48/1068	ABCDE	**187**/16	100	(100-¼)				
ASR	10		ABC	**560**/40	463	(500-¾)	DE	**560**/50	463	(500-1)
	28		AB	**600**/50	513	(600-1)	CDE	**600**/60	513	(600-1¼)
CIR	10		AB	**560-**1¼	463	(500-1¼)	CDE	**560-**1½	463	(500-1½)
	28		AB	**600-**1¼	503	(600-1¼)	CDE	**600-**1½	503	(600-1½)

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.

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GENERAL INFORMATION

This publication is issued every 56 days and includes Standard Instrument Approach Procedures (SIAPS), Standard Instrument Departures (SIDs), Standard Terminal Arrivals (STARs), IFR Takeoff Minimums and (Obstacle) Departure Procedures (ODPs), 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). SIAPS with the (FAA) and (FAA-O) designation are regulated under 14 CFR, Part 97. SIAPs with the (FAA-O) designation have been developed under Other Transaction Agreement (OTA) by private providers and have been certified by the FAA. See 14 CFR, Part 91.175 (a) and the AIM for further details. 14 CFR, Part 91.175 (g) and the Special Notices section of the Chart Supplement contain 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-227 (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) instrument procedures, "RADAR REQUIRED" in the planview of the chart indicates that ATC radar must be available to assist the pilot when transitioning from the en route environment. "Radar required" in the pilot briefing portion of the chart indicates that ATC radar is required on portions of the procedure outside the final approach segment, including the missed approach. Some military procedures also have equipment requirements such as "Radar Required", but do not conform to the same charting application standards used by the FAA.

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.

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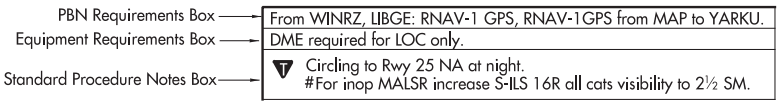
STANDARD TERMINAL ARRIVALS AND DEPARTURE PROCEDURES

The use of the associated codified STAR/DP and transition identifiers are requested of users when filing flight plans via teletype and are required for users filing flight plans via computer interface. 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).

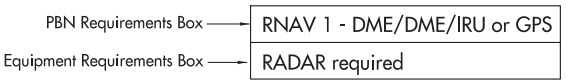
PROCEDURE PBN/EQUIPMENT REQUIREMENTS

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

Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., (A1), (V), (✿)
2. Approach lighting systems that do not bear a system identification are indicated with a negative "(L)" beside the name.

A star (★) indicates non-standard PCL, consult Chart Supplement, e.g., (L★)

To activate lights, use frequency indicated in the communication section of the chart with a (L) or the appropriate lighting system identification e.g., UNICOM 122.8 (L), (A1), (V)

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)

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ABBREVIATIONS

AAUP..... Attention All Users Page
ADF..... Automatic Direction Finder
ADIZ..... Air Defense Identification Zone
AFIS..... Automatic Flight Information Service
ALS..... Approach Light System
ALSF..... Approach Light System with Sequenced Flashing Lights
AOB..... At Or Below
AP..... Autopilot System
APCH..... Approach
APP CON..... Approach Control
ARR..... Arrival
ASOS..... Automated Surface Observing System
ASR/PAR..... Published Radar Minimums at this Airport
ASSC..... Airport Surface Surveillance Systems
ATIS..... Automatic Terminal Information Service
AUNICOM..... Automated UNICOM
AWOS..... Automated Weather Observing System
AZ..... Azimuth
BC..... Back Course
BND..... Bound
C..... Circling
CAT..... Category
CCW..... Counter Clockwise
CDI..... Course Deviation Indicator
Chan..... Channel
CIFP..... Coded Instrument Flight Procedures
CIR..... Circling
CLNC DEL..... Clearance Delivery
CNF..... Computer Navigation Fix
CPDLC..... Controller Pilot Data Link Communication
CTAF..... Common Traffic Advisory Frequency
CW..... Clockwise
D-ATIS..... Digital-Automatic Terminal Information Service
DA..... Decision Altitude
DER..... Departure End of Runway
DH..... Decision Height
DME..... Distance Measuring Equipment
DTHR..... Displaced Threshold
DVA..... Diverse Vector Area
ELEV..... Elevation
EMAS..... Engineered Material Arresting System
FAF..... Final Approach Fix
FD..... Flight Director System
FM..... Fan Marker
FMS..... Flight Management System
GBAS..... Ground Based Augmentation System
GCO..... Ground Communications Outlet
GLS..... Ground Based Augmentation System Landing System
GP..... Glidepath
GPI..... Ground Point of Interception
GPS..... Global Positioning System
GS..... Glide Slope
HAA..... Height above Airport
HAL..... Height above Landing
HAT..... Height above Touchdown
HATh..... Height Above Threshold
HCH..... Heliport Crossing Height
HGS..... Head-up Guidance System
HIRL..... High Intensity Runway Lights
HUD..... Head-up Display
IAF..... Initial Approach Fix
ICAO..... International Civil Aviation Organization
IF..... Intermediate Fix
IM..... Inner Marker
INOP..... Inoperative
INT..... Intersection
K..... Knots
KIAS..... Knots Indicated Airspeed
LAAS..... Local Area Augmentation System
LDA..... Localizer Type Directional Aid
Ldg..... Landing
LIRL..... Low Intensity Runway Lights
LNAV..... Lateral Navigation
LOC..... Localizer
LP..... Localizer Performance
LPV..... Localizer Performance with Vertical Guidance
LR..... Lead Radial. Provides at least 2 NM (Copter 1 NM) of lead to assist in turning onto the intermediate/final course.
MAA..... Maximum Authorized Altitude
MALS..... Medium Intensity Approach Light System
MALSF..... Medium Approach Lighting System with Sequenced Flashers
MALSR..... Medium Intensity Approach Light System with RAIL
MAP..... Missed Approach Point
MDA..... Minimum Descent Altitude
MIRL..... Medium Intensity Runway Lights
MM..... Middle Marker
MRA..... Minimum Reception Altitude
N/A..... Not Applicable
NA..... Not Authorized
NDB..... Non-directional Radio Beacon
NM..... Nautical Mile
NoPT..... No Procedure Turn Required (Procedure Turn shall not be executed without ATC clearance)

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ABBREVIATIONS

ODALS..... Omnidirectional Approach Light System
ODP..... Obstacle Departure Procedure
OM..... Outer Marker
PAR..... Precision Approach Radar
PDC..... Pre-Departure Clearance
PRM..... Precision Runway Monitor
R..... Radial
RA..... Radio Altimeter setting height
RAIL..... Runway Alignment Indicator Lights
RCLS..... Runway Centerline Light System
REIL..... Runway End Identifier Lights
RF..... Radius-to-Fix
RLLS..... Runway Lead-in Light System
RNAV..... Area Navigation
RNP..... Required Navigation Performance
RPI..... Runway Point of Intercept(ion)
RRL..... Runway Remaining Lights
Rwy..... Runway
RVR..... Runway Visual Range
S..... Straight-in
SALS..... Short Approach Light System
SALSF..... Short Approach Lighting System with Sequenced Flashing Lights
SSALF..... Simplified Short Approach Lighting System with Sequenced Flashers
SSALR..... Simplified Short Approach Light System with RAIL
SSALS..... Simplified Short Approach Lighting System
SDF..... Simplified Directional Facility
SM..... Statute Mile
SOIA.....Simultaneous Offset Instrument Approach
SR-SS..... Sunrise-Sunset
TAA..... Terminal Arrival Area
TAC..... TACAN
TCH..... Threshold Crossing Height (height in feet Above Ground level)
TDZ..... Touchdown Zone
TDZE.....Touchdown Zone Elevation
TDZ/CL.....Touchdown Zone and Runway Centerline Lighting
TDZL..... Touchdown Zone Lights
THR..... Threshold
TODA..... Takeoff Distance Available
TORA..... Takeoff Run Available
TR..... Track
VASI..... Visual Approach Slope Indicator
VCOA..... Visual Climb Over Airport
VDP..... Visual Descent Point
VGSI..... Visual Glide Slope Indicator
VNAV..... Vertical Navigation
WAAS..... Wide Area Augmentation System
WP/WPT..... Waypoint (RNAV)

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LEGEND 20086

INSTRUMENT APPROACH PROCEDURES (CHARTS)

PLANVIEW SYMBOLS

TERMINAL ROUTES

Procedure Track

Missed Approach

Visual Flight Path

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

3100 NoPT 5.6 NM to GS Intcpt
045°
(14.2 to LOM)
Minimum Route Altitude
2000
155°
Feeder Route
(15.1)
Mileage

HOLDING PATTERNS

Missed Approach
090°
270°

Hold-in-lieu of Procedure Turn
090°
1 min
270°

HOLD 8000
Arrival
090°
270°

090°
(IAS)
270°
4 NM

Holding pattern with max. 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
▲ Name (Compulsory)
△ Name (Non-Compulsory)

Intersection

WAYPOINT (Compulsory)

WAYPOINT (Non-Compulsory)

FLYOVER POINT

MAP WP (Flyover)

Computer Navigation Fix (CNF) - No ATC Function
x (NAME) ("x" omitted when it conflicts with runway pattern)

15 DME Distance From Facility

AUSTN INT
ARC/DME/RNAV Fix

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

RADIO AIDS TO NAVIGATION

110.1 Underline indicates No Voice transmitted on this frequency

Compulsory:
VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

Non-Compulsory:
VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

LOM/LMM (Compass locator at Outer Marker/Middle Marker)

Marker Beacon

Marker beacons that are not specifically part of the procedure.

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

SDF Course

LOC/DME

LOC/LDA/SDF Transmitter
(shown when installation is offset from its normal postion off the end of the runway.)

Primary Navaid with Coordinate Values
LIMA
114.5 LIM
Chan 92
S12°00.80′
W77°07.00′

Secondary Navaid
LMM
LIMA
248 NT

SCOTT
Chan 59
SKE
(112.2)
VHF Paired Frequency

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INSTRUMENT APPROACH PROCEDURES (CHARTS)

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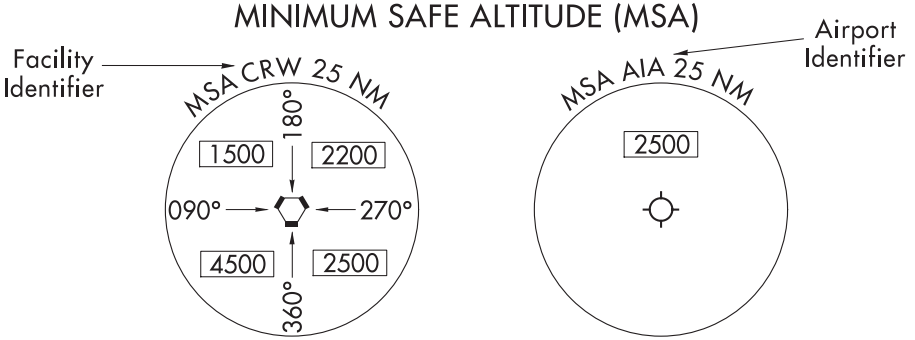
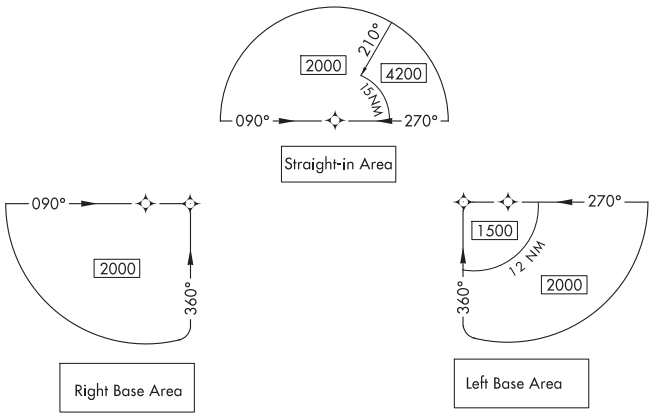
PLANVIEW SYMBOLS

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

AIRPORTS

Primary and Secondary (named in planview)

Civil

Seaplane Base

Heliport

OBSTACLES

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

LEGEND 19171

SW-3, 05 NOV 2020 to 31 DEC 2020

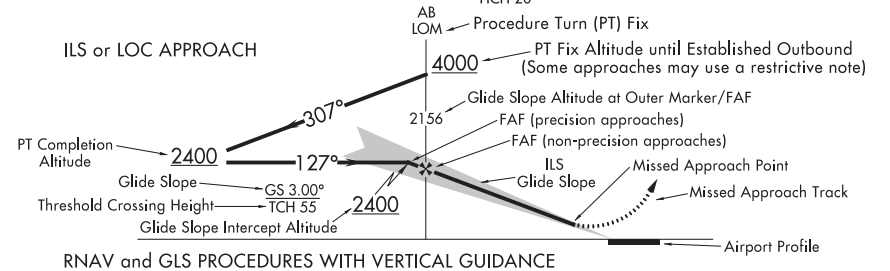
PROFILE VIEW

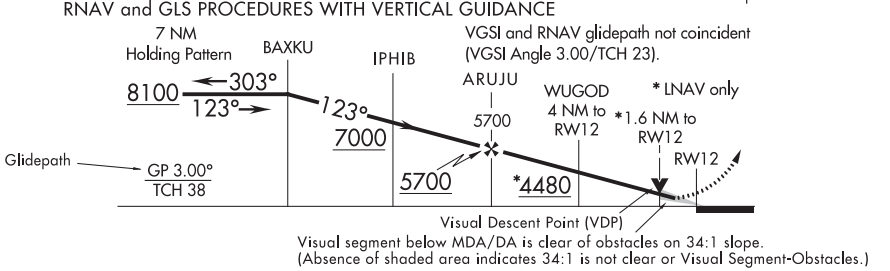
Three different methods are used to depict either electronic or vertical guidance: "GS", "GP", or "VDA".

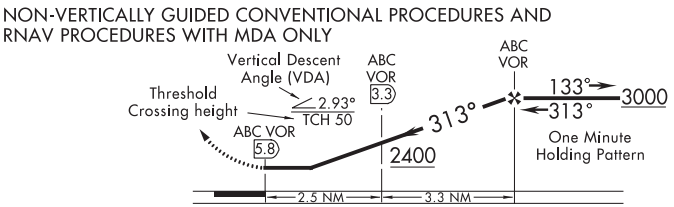
1. "GS" indicates that an Instrument Landing System (ILS) electronic glide slope (a ground antenna) provides vertical guidance. The profile section of ILS procedures depict a GS angle and TCH in the following format: GS 3.00°, TCH 55.

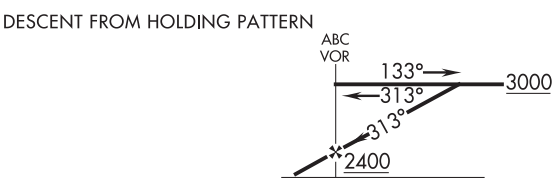
2. "GP" on GLS and RNAV procedures indicates that either electronic vertical guidance (via Wide Area Augmentation System - WAAS or Ground Based Augmentation System - GBAS) or barometric vertical guidance is provided. GLS and RNAV procedures with a published decision altitude (DA/H) depict a GP angle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









ALTITUDES

- 5500 Mandatory Altitude
- 2500 Minimum Altitude
- 4300 Maximum Altitude
- 3000 Recommended Altitude
- 5000 / 3000 Mandatory Block 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 19059

LEGEND

STANDARD TERMINAL ARRIVAL (STAR) CHARTS
DEPARTURE PROCEDURE (DP) CHARTS

Applies to both STAR and DP Charts unless otherwise noted.

RADIO AIDS TO NAVIGATION

Compulsory:

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

Non-Compulsory:

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

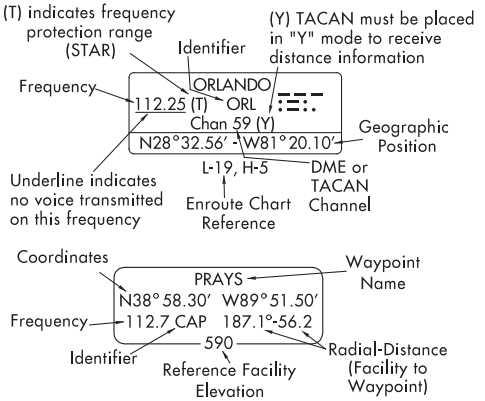
LMM, LOM (Compass locator)

Marker Beacon

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

Localizer Course

SDF Course



FIXES/ATC REPORTING REQUIREMENTS

Reporting Points N00°00.00' W00°00.00'

75 → DME Mileage (when not obvious)

▲ Fix-Compulsory and

△ Non-Compulsory Position Report

DME fix

WAYPOINT (Compulsory)

WAYPOINT (Non-Compulsory)

FLYOVER POINT

X Computer Navigation Fix (CNF) - No ATC Function
N00°00.00'
W00°00.00'

ROUTES

4500 MEA-Minimum Enroute Altitude

*3500 MOCA-Minimum Obstruction Clearance Altitude

270° Departure Route - Arrival 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 (DP)

V12 J80 Airway/Jet Route Identification

DP Holding Pattern (IAS)

STAR Holding Pattern (IAS)

Holding pattern with max. 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 (STAR)

INDICATED AIRSPEED

175K Mandatory Airspeed

120K Minimum Airspeed

250K Maximum Airspeed

AIRPORTS

(DP) · (H) Heliport

Civil · Military · Joint Civil-Military

Airports not served by the procedure shown in screened color (STAR)

Civil · Military · Joint Civil-Military

MISCELLANEOUS

Changeover Point

Distance not to scale (DP)

International Boundary (DP)

Air Defense Identification Zone

T Takeoff Minimums and (Obstacle) Departure Procedures entry published. (DP)

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LEGEND 19059

19339

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

Hard Surface | Other Than Hard Surface | Stopways,Taxiways, Parking Areas | Metal Surface

Closed Runway | Closed Surface | 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.....
24-Hour Self-Serve Fuel ##.....
Tanks.....
Obstructions.....
Airport Beacon #.....
Runway
Radar Reflectors.....
Control Tower #..... TWR

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

A fuel symbol is shown to indicate 24-hour self-serve fuel available, see appropriate Chart Supplement for 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 FLIP. (Foreign Only)

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325

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

←0.3% DOWN

Runway Slope.....0.8% UP→
(shown when runway slope is greater than or equal to 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.

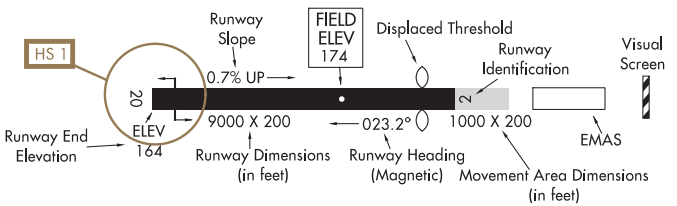
True/magnetic North orientation may vary from diagram to diagram

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.



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.

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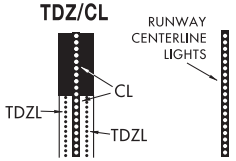
LEGEND 15344

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

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).

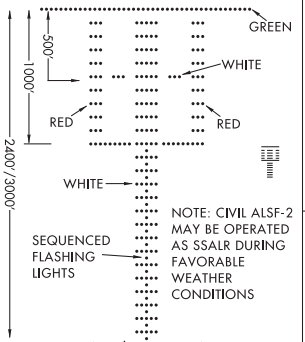
RUNWAY TOUCHDOWN ZONE AND CENTERLINE LIGHTING SYSTEMS



AVAILABILITY of TDZ/CL will be shown by NOTE in SKETCH e.g. "TDZ/CL Rwy 15"

APPROACH LIGHTING SYSTEM

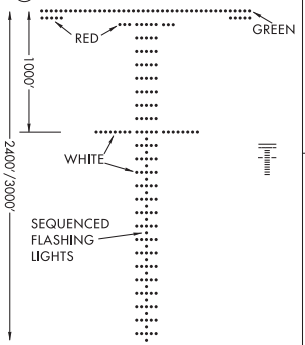
(A) **ALSF-2**



(High Intensity)
LENGTH 2400/3000 FEET

APPROACH LIGHTING SYSTEM

(A1) **ALSF-1**



(High Intensity)
LENGTH 2400/3000 FEET

SHORT APPROACH LIGHTING SYSTEM

(A2)

SALS/SALSF

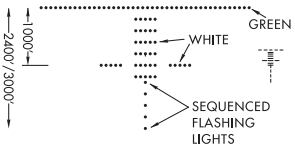
(High Intensity)

SAME AS INNER 1500' OF ALSF-1

SIMPLIFIED SHORT APPROACH LIGHTING SYSTEM

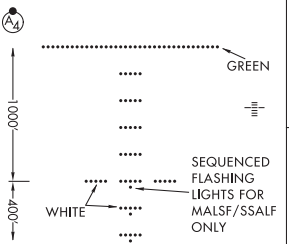
with Runway Alignment Indicator Lights

(A3) **SSALR**



(High Intensity)
LENGTH 2400/3000 FEET

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



LENGTH 1400 FEET

MEDIUM INTENSITY APPROACH LIGHTING SYSTEM

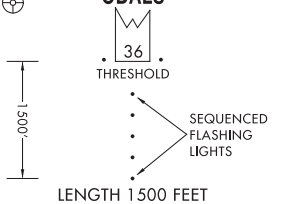
with Runway Alignment Indicator Lights

(A5) **MALSR**

SAME LIGHT CONFIGURATION AS SSALR.

OMNIDIRECTIONAL APPROACH LIGHTING SYSTEM

ODALS



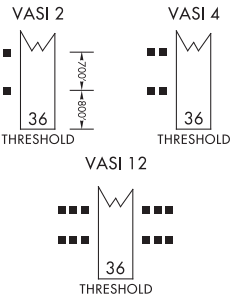
LENGTH 1500 FEET

(V) VISUAL APPROACH SLOPE INDICATOR

VASI

VISUAL APPROACH SLOPE INDICATOR WITH STANDARD THRESHOLD CLEARANCE PROVIDED.

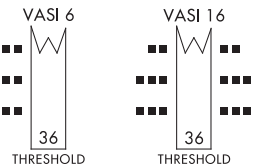
ALL LIGHTS WHITE — TOO HIGH
FAR LIGHTS RED / NEAR LIGHTS WHITE — ON GLIDE SLOPE
ALL LIGHTS RED — TOO LOW



(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.



LEGEND 15344

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LEGEND 18256

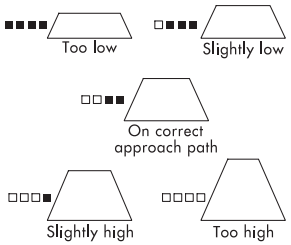
INSTRUMENT APPROACH PROCEDURES (CHARTS)
APPROACH LIGHTING SYSTEM - UNITED STATES

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

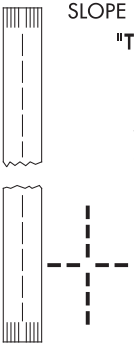
PAPI



Legend: □ White ■ Red

(V1) "T"-VISUAL APPROACH SLOPE INDICATOR

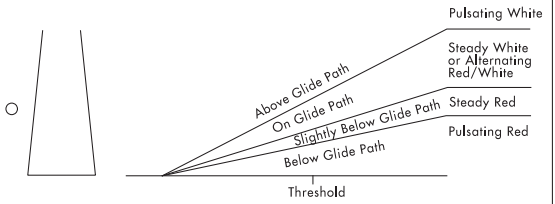
"T"-VASI



"T" ON BOTH SIDES OF RWY ALL LIGHTS VARIABLE WHITE. CORRECT APPROACH SLOPE-ONLY CROSS BAR VISIBLE. UPRIGHT "T"- FLY UP. INVERTED "T"- FLY DOWN. RED "T"- GROSS UNDERSHOOT.

(V2) PULSATING VISUAL APPROACH SLOPE INDICATOR

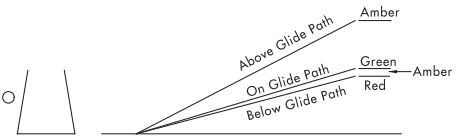
PVASI



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

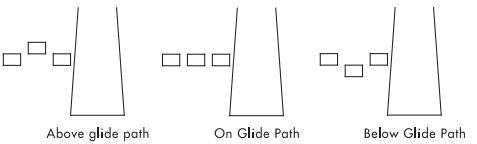
TRCV



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.

LEGEND 18256

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FREQ PAIRING 20198

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.

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FREQ PAIRING 20198

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

APPLE VALLEY, CA
APPLE VALLEY(APV)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 18 1
DPS ..... EXCON ONE (OBSTACLE) (RNAV) 2

AVALON, CA
CATALINA(AVX)
TAKEOFF MINIMUMS L
IAPS ..... VOR/DME OR GPS-B 3
VOR OR GPS-A 4

BAKERSFIELD, CA
BAKERSFIELD MUNI(L45)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 34 5
VOR/DME RWY 34 6
DPS ..... STIGR TWO 7
MEADOWS FIELD(BFL)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS ..... FASTO TWO Z22
IAPS ..... ILS OR LOC RWY 30R 8
RNAV (GPS) RWY 12L 9
RNAV (GPS) RWY 12R 10
RNAV (GPS) RWY 30L 11
RNAV (GPS) RWY 30R 12
VOR-A 13
AIRPORT DIAGRAM 14
DPS ..... MARIC FOUR 15
MEADOWS FOUR 16
WRING FOUR 17

BARSTOW-DAGGETT
---SEE DAGGETT, CA

BERMUDA DUNES
---SEE PALM SPRINGS, CA

BIG BEAR CITY, CA
BIG BEAR CITY(L35)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 26 18
DPS ..... OKACO ONE (OBSTACLE) (RNAV) 19

BLYTHE, CA
BLYTHE(BLH)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 26 20
VOR/DME RWY 26 21
VOR/DME-A 22

BOB HOPE
---SEE BURBANK, CA

BOB MAXWELL MEMORIAL AIRFIELD
---SEE OCEANSIDE, CA

BORREGO SPRINGS, CA
BORREGO VALLEY(L08)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 26 23
DPS ..... ZUNGU ONE (OBSTACLE) (RNAV) 24
KUMBA ONE (RNAV) 25

BRACKETT FIELD
---SEE LA VERNE, CA

BRAWLEY, CA
BRAWLEY MUNI(BWC)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 26 26
VOR-B 27

BROWN FIELD MUNI
---SEE SAN DIEGO, CA

BURBANK, CA
BOB HOPE(BUR)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
LAHSO ..... O
HOT SPOT ..... P
STARS ..... FERNANDO SEVEN Z23
JANNY FIVE (RNAV) Z37
LYNXX EIGHT Z49
ROKKR TWO (RNAV) Z62
THRNE THREE (RNAV) Z79
WEESL ONE (RNAV) Z85
IAPS ..... ILS Y OR LOC Y RWY 08 28
ILS Z OR LOC Z RWY 08 29
RNAV (RNP) Y RWY 08 30
RNAV (GPS) Z RWY 08 31
RNAV (GPS)-A 32
VOR RWY 08 33
FOUR STACKS VISUAL RWY 15 34
AIRPORT DIAGRAM 35
DPS ..... ELMOO NINE 36
OROSZ TWO (RNAV) 37
SLAPP TWO (RNAV) 38
VAN NUYS THREE 40
VVERA TWO (RNAV) 42

CABLE
---SEE UPLAND, CA

CALIFORNIA CITY, CA
CALIFORNIA CITY MUNI(L71)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 06 43
RNAV (GPS) RWY 24 44
DPS ..... CALIFORNIA CITY ONE (OBSTACLE) (RNAV) 45

CALIPATRIA, CA
CLIFF HATFIELD MEMORIAL(CLR)
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IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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.

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 verbally request approval from ATC 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.

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APPLE VALLEY, CA

APPLE VALLEY (APV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 19JUL18 (18200) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, 18, 26, NA - Environmental.

DEPARTURE PROCEDURE:

Rwy 36, use EXCON DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 36, vegetation 219' from DER, 283' left of centerline, 3069' MSL.
Vegetation 681' from DER, 415' right of centerline, 3084' MSL.
Rising terrain, fence beginning 718' from DER, 403' left of centerline, up to 3108' MSL.
Rising terrain, vegetation beginning 742' from DER, 222' left of centerline, up to 3109' MSL.

AVALON, CA

CATALINA (AVX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

DEPARTURE PROCEDURE:

Rwys 4, 22, climb straight ahead to 2300 then proceed on course.

BAKERSFIELD, CA

BAKERSFIELD MUNI (L45)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 06FEB14 (14037) (FAA)

TAKEOFF MINIMUMS:

Rwy 34, 400-1¼ or std. with a min. climb of 555' per NM to 900.

DEPARTURE PROCEDURE:

Rwy 16, climbing right turn direct EHF VORTAC, thence...

Rwy 34, climbing left turn direct EHF VORTAC, thence...

... Aircraft departing EHF VORTAC R-180 CW R-360 climb on course, aircraft departing EHF VORTAC R-001 CW R-100 continue climb in EHF VORTAC holding pattern (hold NW, right turns, 144° inbound) to cross EHF VORTAC at or above 5200 then proceed on course, aircraft departing EHF VORTAC R-101 CW R-179 continue climb in EHF VORTAC holding pattern (hold NW, right turns, 144° inbound) to cross EHF VORTAC at or above 4100 then proceed on course.

TAKEOFF OBSTACLE NOTES:

Rwy 16, light pole 168' from DER, 498' left of centerline, 26' AGL/400' MSL.
Tree 395' from DER, 491' left of centerline, 40' AGL/400' MSL.
Powerlines beginning 546' from DER, 608' right of centerline, 120' AGL/474' MSL.
Pole 644' from DER, 474' left of centerline, 30' AGL/403' MSL.
Trees beginning 1603' from DER, 196' right of centerline, up to 40' AGL/453' MSL.
Obstruction light on transmission tower 2464' from DER, 780' left of centerline, 106' AGL/477' MSL.
Catenary 2486' from DER, 484' left of centerline, 106' AGL/477' MSL.
Catenary 2529' from DER, 725' right of centerline, 111' AGL/483' MSL.
Obstruction light on transmission tower 2539' from DER, 214' right of centerline, 107' AGL/478' MSL.
Catenary 2540' from DER, 482' right of centerline, 111' AGL/482' MSL.
Rwy 34, trees beginning 604' from DER, 341' right of centerline, 40' AGL/419' MSL.
Tower 5100' from DER, 1646' right of centerline, 266' AGL/656' MSL.
Vehicles on road 764' from DER, 499' left of centerline, up to 15' AGL/399' MSL.
Hanger 372' from DER, 545' left of centerline, 20' AGL/404' MSL.

MEADOWS FIELD (BFL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 26MAY16 (16147) (FAA)

DEPARTURE PROCEDURE:

All aircraft climbing right turn direct EHF VORTAC. Aircraft departing EHF R-180 CW R-350 climb on course. All others continue climb northwest bound via EHF R-324, then climbing left turn to cross EHF VORTAC at or above: EHF R-110 CW R-179 3000; EHF R-351 CW R-109 4000.

TAKEOFF OBSTACLE NOTES:

Rwy 12L, trees beginning 2221' from DER, 684' left of centerline, up to 72' AGL/546' MSL.
Ground 146' from DER, 525' left of centerline, 479' MSL.
Rwy 12R, tree 2612' from DER, 1158' left of centerline, 69' AGL/533' MSL.
Trees beginning 456' from DER, 575' right of centerline, up to 46' AGL/510' MSL.
Fence 14' from DER, 215' right of centerline, 4' AGL/466' MSL.
Rwy 30R, pole 1248' from DER, 113' left of centerline, 31' AGL/543' MSL.
Transmission tower 3632' from DER, 1097' left of centerline, 94' AGL/602' MSL.
Poles beginning 2297' from DER, 925' right of centerline, up to 36' AGL/577' MSL.
Pump 529' from DER, 538' right of centerline, 5' AGL/523' MSL.
Building 373' from DER, 257' right of centerline, 10' AGL/524' MSL.
Towers beginning 4350' from DER, 499' right of centerline, up to 110' AGL/650' MSL.
NAVAID 388' from DER, 266' right of centerline, 21' AGL/535' MSL.
Tree 3252' from DER, 1072' right of centerline, 101' AGL/610' MSL.

BIG BEAR CITY, CA

BIG BEAR CITY (L35)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20APR00 (00111) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, 1200-2 or std. with a min. climb of 282' per NM to 8000.
Rwy 26, NA.

DEPARTURE PROCEDURE:

Use OKACO RNAV DEPARTURE.
Rwy 26, NA.

BLYTHE, CA

BLYTHE (BLH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 22AUG13 (13234) (FAA)

TAKEOFF MINIMUMS:

Rwy 26, 600-2½ or std. with a min. climb of 348' per NM to 1200.

DEPARTURE PROCEDURE:

Rwys 8, 17, 35, turn right.
Rwy 26, turn left, climb to 1500 via heading 180° and BLH R-120, then climbing left turn direct BLH VORTAC, MCA 2000.

TAKEOFF OBSTACLE NOTES:

Rwy 26, tower 2.4 NM from DER, 991' left of centerline, 159' AGL/957' MSL.

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BORREGO SPRINGS, CA

BORREGO VALLEY (L08)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10APR08 (08101) (FAA)

DEPARTURE PROCEDURE:

Use ZUNGU DEPARTURE (RNAV).

BRAWLEY, CA

BRAWLEY MUNI (BWC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 30MAR17 (17089) (FAA)

TAKEOFF MINIMUMS:

Rwy 26, NA-Obstacles and noise abatement.

DEPARTURE PROCEDURES:

Rwy 8, climbing right turn heading 120° to intercept IPL VORTAC R-009 to 3000 to IPL VORTAC, then climb on course.

TAKEOFF OBSTACLE NOTES:

Rwy 8, trees, beginning 81' from DER, 314' left of centerline, up to -106' MSL.
Trees, beginning 274' from DER, 441' right of centerline, up to -124' MSL.
Vehicles on road, beginning 380' from DER, 348' right of centerline, up to -116' MSL.
Trees, beginning 457' from DER, 362' left of centerline, up to -96' MSL.
Tree 458' from DER, 406' left of centerline, -94' MSL.

BURBANK, CA

BOB HOPE (BUR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 28JUL11 (11209) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, std. w/min. climb of 410' per NM to 5000.
Rwy 15, std. w/min. climb of 335' per NM to 5000.
Rwy 26, std. w/min. climb of 325' per NM to 5000.
Rwy 33, std. w/min. climb of 550' per NM to 5000' or 600-2¼ w/min. climb of 300' per NM to 5000.

DEPARTURE PROCEDURE:

Rwys 8, 15, climbing right turn direct VNY VOR/DME.
Rwy 26, climb direct VNY VOR/DME.
Rwy 33, Climbing left turn direct VNY VOR/DME.
All aircraft continue climb in VNY holding pattern (SE, left turns, 295° inbound) to cross VNY VOR/DME at or above 5100, then westbound on V326 to GINNA or eastbound on V186 to DARTS.

TAKEOFF OBSTACLE NOTES:

Rwy 8, multiple trees, poles, and buildings beginning 124' from DER, 42' right of centerline, up to 65' AGL/745' MSL.
Multiple trees, buildings and poles beginning 278' from DER, 73' left of centerline, up to 56' AGL/746' MSL.
Rwy 15, multiple trees, buildings, poles, and blast fence beginning 50' from DER, 2' right of centerline, up to 65' AGL/762' MSL.
Multiple trees, buildings, poles, blast fence beginning 185' from DER, 53' left of centerline, up to 108' AGL/777' MSL.
Rwy 26, multiple trees, poles, transmission towers, buildings, and roads, and terrain beginning 26' from DER, 4' right of centerline, up to 145' AGL/731' MSL.
Multiple trees, poles, transmission towers, railroad, and buildings beginning 302' from DER, 437' left of centerline, up to 117' AGL/846' MSL.
Rwy 33, multiple trees, poles, terrain, buildings, road beginning 33' from DER, 30' right of centerline, up to 100' AGL/1333' MSL.
Multiple trees, poles, buildings, antenna, railroad, and blast fence beginning 97' from DER, 11' left of centerline, up to 50' AGL/878' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 26MAY16 (16147) (FAA)

Rwy 8, heading as assigned by ATC; requires minimum climb of 420' per NM to 2500.
Rwy 15, heading as assigned by ATC; requires minimum climb of 340' per NM to 2100.
Rwy 26, heading as assigned by ATC; requires minimum climb of 380' per NM to 4800.
Rwy 33, heading as assigned by ATC; requires minimum climb of 460' per NM to 4900.

CALIFORNIA CITY, CA

CALIFORNIA CITY MUNI (L71)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 17MAR05 (05076) (FAA)

DEPARTURE PROCEDURE:

Use CALIFORNIA CITY (RNAV) DEPARTURE.

CALIPATRIA, CA

CLIFF HATFIELD MEMORIAL (CLR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 12OCT17 (17285) (FAA)

DEPARTURE PROCEDURE:

Rwy 8, climb runway heading to 400, then climbing right turn to 3000 via heading 200° and IPL R-336 to IPL VORTAC.

Rwy 26, climb runway heading to 400, then climbing left turn to 3000 via IPL R-336 to IPL VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 8, pole 525' from DER, 140' right of centerline, 15' AGL/-166' MSL.
Poles beginning 616' from DER, 204' right of centerline, 15' AGL/-165' MSL.
Building, pole beginning 748' from DER, 307' right of centerline, 25' AGL/-155' MSL.
Transmission line 838' from DER, 150' right of centerline, 31' AGL/-150' MSL.
Rwy 26, pole 190' from DER, 329' right of centerline, -152 MSL.
Road 223' from DER, on centerline -170' MSL.
Tree 328' from DER, 484' left of centerline, -155' MSL.
Tree 541' from DER, 634' right of centerline, -125' MSL.
Pole 1103' from DER, 582' right of centerline, -140' MSL.
Antenna 1444' from DER, 565' left of centerline, -131' MSL.

CAMARILLO, CA

CAMARILLO (CMA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 10NOV16 (16315) (FAA)

DEPARTURE PROCEDURE:

Rwy 8, climbing left turn to 2500 on CMA VOR/DME R-058 thence. . . .
Rwy 26, climb to 2500 on CMA VOR/DME R-265 thence...
... Climbing left turn direct CMA VOR/DME before proceeding on course.

CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

OCEANSIDE, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 03JAN19 (19003)

DEPARTURE PROCEDURE:

Rwys 3, 21, diverse departures not authorized.

TAKEOFF OBSTACLE NOTES:

Rwy 3, palm tree 2186' from DER, 670' right of cntrln, 73' AGL/155' MSL.
Palm tree 2108' from DER, 783' right of cntrln, 61' AGL/149' MSL.
Palm tree 2088' from DER, 675' right of cntrln, 64' AGL/147' MSL.
Palm tree 2192' from DER, 572' right of cntrln, 67' AGL/150' MSL.
Palm tree 2117' from DER, 770' right of cntrln, 59' AGL/143' MSL.
Palm tree 2186' from DER, 650' right of cntrln, 73' AGL/155' MSL.
Palm tree 2157' from DER, 729' right of cntrln, 46' AGL/132' MSL.
Palm tree 2186' from DER, 619' right of cntrln, 63' AGL/155' MSL.
Palm tree 2185' from DER, 640' right of cntrln, 66' AGL/148' MSL.
Palm tree 2143' from DER, 746' right of cntrln, 46' AGL/132' MSL.
Terrain 3976' from DER, 1566' left of cntrln, 181' MSL.
Terrain 4256' from DER, 1298' left of cntrln, 220' MSL.
Palm tree 2188' from DER, 595' right of cntrln, 65' AGL/149' MSL.
Palm tree 2187' from DER, 702' right of cntrln, 65' AGL/151' MSL.
Pylon 2.5 NM from DER, 3894' right of cntrln, 52' AGL/443' MSL.
Rwy 21, twr 1008' from DER, 786' left of cntrln, 60' AGL/119' MSL.
Terrain 3659' from DER, 1480' left of cntrln, 199' MSL.
Terrain 3533' from DER, 1446' left of cntrln, 177' MSL.
Cellphone twr 1.5 NM from DER, 2669' right of cntrln, 100' AGL/672' MSL.
Pylon 2.3 NM from DER, 538' left of cntrln, 0' AGL/518' MSL.

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CARLSBAD, CA

MC CLELLAN-PALOMAR (CRQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 21JUL16 (16203) (FAA)

TAKEOFF MINIMUMS:

Rwy 6, std. w/min. climb of 255' per NM to 1700 or 2700-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 6, climbing left turn heading 245° to 3000 before proceeding on course. Do not exceed 210 Kias until established on heading 245°.

Rwy 24, climb heading 245° to 2400 before proceeding on course.

VCOA:

Obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross McClellan-Palomar airport at or above 2900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 6, fence beginning 6' from DER, 453' left of centerline, up to 1' AGL/328' MSL.
Obstruction light on blast fence beginning 96' from DER, 398' right of centerline, up to 18' AGL/332' MSL.
Tree 325' from DER, 508' left of centerline, 347' MSL.
Trees beginning 519' from DER, 504' left of centerline, up to 379' MSL.
Tree 3682' from DER, 945' left of centerline, 424' MSL.
Trees, equipment on building, obstruction light on flagpole beginning 3682' from DER, 333' left of centerline, up to 428' MSL.
Trees beginning 4032' from DER, 489' left of centerline, up to 439' MSL.
Trees, light poles beginning 4040' from DER, 318' right of centerline, up to 445' MSL.
Light poles beginning 4705' from DER, 485' right of centerline, up to 30' AGL/457' MSL.
Trees 4866' from DER, 988' left of centerline, 457' MSL.
Trees beginning 4944' from DER, 431' right of centerline, up to 465' MSL.
Light poles beginning 4985' from DER, 536' right of centerline, up to 42' AGL/468' MSL.
Tree, light poles beginning 5123' from DER, 576' right of centerline, up to 476' MSL.
Trees 5493' from DER, 753' right of centerline, 489' MSL.
Trees, light poles beginning 5663' from DER, 569' right of centerline, up to 502' MSL.
Trees 6015' from DER, 896' right of centerline, 507' MSL.
Tree 1.1 NM from DER, 1131' right of centerline, 506' MSL.
Rwy 24, terrain beginning 25' from DER, 287' right of centerline, up to 339' MSL.
Bush 36' from DER, 276' right of centerline, 340' MSL.
Tree 106' from DER, 520' left of centerline, 342' MSL.

CHINA LAKE NAWS (ARMITAGE FLD)(KNID)

RIDGECREST, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

24MAY18 (18144)

Diverse departures not authorized, use published departure.

TAKEOFF OBSTACLE NOTES:

Rwy 14, pylon 2252' from DER, 1094' right of centerline, 49' AGL/2309' MSL.
Pylon 2519' from DER, 945' right of centerline, 49' AGL/2311' MSL.
Pylon 2681' from DER, 1182' left of centerline, 49' AGL/2289' MSL.
Pylon 2772' from DER, 807' right of centerline, 49' AGL/2312' MSL.
Pylon 2909' from DER, 1176' left of centerline, 49' AGL/2286' MSL.
Pylon 2952' from DER, 580' right of centerline, 49' AGL/2305' MSL.
Pylon 3128' from DER, 351' right of centerline, 49' AGL/2305' MSL.
Pylon 3131' from DER, 580' left of centerline, 49' AGL/2305' MSL.
Pylon 3131' from DER, 1177' left of centerline, 49' AGL/2298' MSL.
Pylon 3132' from DER, 264' left of centerline, 49' AGL/2295' MSL.
Pylon 3133' from DER, 52' right of centerline, 49' AGL/2289' MSL.
Pylon 3133' from DER, 1022' left of centerline, 49' AGL/2288' MSL.
Pylon 3134' from DER, 876' left of centerline, 49' AGL/2287' MSL.

CHINO, CA

CHINO (CNO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 30NOV00 (00335) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, std. with a min. climb of 270' per NM to 4800.

Rwys 8L/R, std. with a min. climb of 270' per NM to 4800.

Rwy 21, Cat A/B std. with a min climb of of 290' per NM to 4800, Cat C/D std. with a min. climb of 400' per NM 4800.

Rwys 26L/R, Cat A/B std. with a min. climb of 270' per NM to 4800, Cat C/D std. with a min. climb of 410' per NM to 4800.

DEPARTURE PROCEDURE:

Rwys 3, 8L/R, climbing right turn direct PDZ VORTAC.

Rwys 21, 26L/R, climbing left turn direct PDZ VORTAC.

All aircraft climb in PDZ VORTAC holding pattern (Hold E, right turns, 258° inbound) to the appropriate MEA.

TAKEOFF OBSTACLE NOTES:

108' AGL trees 1200' from DER 3, 600' left of centerline.

CON'T

SW-3, 05 NOV 2020 to 31 DEC 2020

CHINO, CA (CON'T)
CHINO (CNO) (CON'T)
DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 15OCT15 (15288) (FAA)
Rwy 3, heading as assigned by ATC; requires minimum climb of 250' per NM to 4300.
Rwys 8L, 8R, heading as assigned by ATC; requires minimum climb of 370' per NM to 4100.
Rwy 21, heading as assigned by ATC; requires minimum climb of 320' per NM to 1800.
Rwys 26L, 26R, heading as assigned by ATC; requires minimum climb of 270' per NM to 2100.

CORONA, CA
CORONA MUNI (AJO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 26MAY94 (94146) (FAA)
TAKEOFF MINIMUMS:
Rwy 7, 1000-2 or std. with a min. climb of 310' per NM to 1700.
Rwy 25, 600-2 or std. with a min. climb of 280' per NM to 1200.
DEPARTURE PROCEDURE:
Rwy 7, climbing left turn.
Rwy 25, climbing right turn.
All aircraft continue climb direct to PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CW R-280 climb on course. All others continue climb in PDZ VORTAC holding pattern (Hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-141 CW R-230 4000, R-281 CW R-090 6700.

DAGGETT, CA
BARSTOW-DAGGETT (DAG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 29JUL10 (10210) (FAA)
DEPARTURE PROCEDURE:
Use DAGGETT DEPARTURE.

DELANO, CA
DELANO MUNI (DLO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 08MAY08 (08129) (FAA)
TAKEOFF MINIMUMS:
Rwy 32, 400-1 or std. with a min. climb rate of 390' per NM to 400.
DEPARTURE PROCEDURE:
Rwy 14, Climb via heading 140° and EHF VORTAC R-324 to 3000 before proceeding on course.
Rwy 32, climb via heading 320° and EHF VORTAC R-324 to 3000 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
65' AGL tree 600' from DER, 500' left of centerline runway 14.

EDWARDS AF AUX NORTH BASE (9L2)
EDWARDS, CA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
Rwy 6-24, climb on course, cross 15 NM from ARP at or above 4500.

EDWARDS AFB (KEDW)
EDWARDS, CA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
10OCT19 (19283)
Rwys 5L/R, RADAR required, climb 340' per NM to 5500, track inbound on EDW R-223 to EDW VORTAC, then out EDW R-043. Climb as instructed, expect RADAR vectors after passing 4500 or climb on course, cross 15 NM from ARP at or above 4500.
Rwys 23L/R, RADAR and DME required. CAT A/B/C track outbound EDW R-223. At 12 DME turn right heading 020°, intercept EDW R-247 to EDW VORTAC. Climb as Instructed, expect RADAR vectors after passing 4500 or climb on course, cross 15 NM from ARP at or above 4500. CAT D/E track outbound EDW R-223. At 12 DME turn right, intercept EDW R-247 to EDW VORTAC. Climb as instructed, expect RADAR vectors after passing 4500 or climb on course, cross 15 NM from ARP at or above 4500.

EL CENTRO NAF (VRACIU FIELD) (KNJK)

EL CENTRO, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 18JUN20 (20170)

TAKEOFF MINIMUMS:

Rwys 8, 12, 26, 30, 2000-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwys 8, 12, 26, for climb in visual conditions, cross El Centro airport at or above 1800 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 8, road 182' from DER, 99' left of cntrln, 10' AGL/-37' MSL.
Road 183' from DER, 3' right of cntrln, 10' AGL/-37' MSL.
Road 183' from DER, 100' right of cntrln, 10' AGL/-37' MSL.
Rwy 12, terrain 0' from DER, 500' left of cntrln, -39' MSL.
Terrain 0' from DER, 500' right of cntrln, -36' MSL.
Fence 199' from DER, 305' left of cntrln, 8' AGL/-34' MSL.
Fence 289' from DER, 213' left of cntrln, 8' AGL/-34' MSL.
Road 278' from DER, 100' left of cntrln, 10' AGL/-35' MSL.
Road 372' from DER, 95' right of cntrln, 10' AGL/-35' MSL.
Road 338' from DER, 8' left of cntrln, 10' AGL/-35' MSL.
Fence 504' from DER, 3' right of cntrln, 8' AGL/-34' MSL.
Pole 153' from DER, 884' right of cntrln, -3' MSL.
Pylon 1532' from DER, 884' right of cntrln, 41' AGL/-3' MSL.
Rwy 26, terrain 0' from DER, 500' left of cntrln, -45' MSL.
Rwy 30, electrical box 176' from DER, 139' left of cntrln, 4' AGL/-45' MSL.

EL MONTE, CA

SAN GABRIEL VALLEY (EMT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, std. w/min. climb of 290' per NM to 1800, or 1600-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 1, climb heading 011° to 700 then climbing right turn on heading 128° and on PDZ R-278 to PDZ VORTAC thence...

Rwy 19, climb heading 191° to 1500 then climbing left turn on heading 068° and on PDZ R-278 to PDZ VORTAC thence...

...aircraft departing PDZ R-078 CW R-292 climb on course. All others continue climb in PDZ VORTAC holding pattern (hold northeast, right turn, 210° inbound) to cross PDZ VORTAC at or above MEA for route of flight.

VCOA:

Rwy 1, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross San Gabriel Valley airport at or above 1700 then intercept PDZ R-278 to PDZ VORTAC. Aircraft departing PDZ R-078 CW R-292 climb on course. All others continue climb in PDZ VORTAC holding pattern (hold northeast, right turn, 210.00 inbound) to cross PDZ VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 1, sign 18' from DER, 124' right of centerline, 300' MSL.
Building 98' from DER, 269' left of centerline, 334' MSL.
Building 273' from DER, 299' right of centerline, 310' MSL.
Lighting 525' from DER, 257' left of centerline, 338' MSL.
Trees beginning 609' from DER, 277' left of centerline, up to 364' MSL.
Traverse way 662' from DER, on centerline, 322' MSL.
Tree 791' from DER, 205' right of centerline, 335' MSL.
Lighting 942' from DER, 221' right of centerline, 343' MSL.
Lighting 943' from DER, 446' right of centerline, 344' MSL.
Pole 1698' from DER, on centerline, 365' MSL.
Tree 2828' from DER, 23' right of centerline, 404' MSL.
Rwy 19, sign 16' from DER, 130' left of centerline, 285' MSL.
Trees beginning 74' from DER, 179' left of centerline, up to 317' MSL.
Tree, lighting, pole beginning 363' from DER, 86' left of centerline, up to 322' MSL.
Tower 1019' from DER, 692' left of centerline, 40' AGL/333' MSL.
Tree 1051' from DER, 370' right of centerline, 323' MSL.
Tree 1133' from DER, 206' left of centerline, 334' MSL.
Tree 1466' from DER, 382' left of centerline, 348' MSL.
Pole 1661' from DER, 548' left of centerline, 357' MSL.
Pole 1774' from DER, 87' right of centerline, 350' MSL.
Pole 2033' from DER, 370' right of centerline, 358' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 27APR17 (17117) (FAA)

Rwys 1, headings as assigned by ATC; requires minimum climb of 290' per NM to 1300.
Rwys 19, headings assigned by ATC.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

FALLBROOK, CA

FALLBROOK COMMUNITY AIRPARK (L18)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10NOV16 (16315) (FAA)

DEPARTURE PROCEDURE:

Use FALLBROOK DEPARTURE.

FULLERTON, CA

FULLERTON MUNI (FUL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 03MAY12 (12124) (FAA)

TAKEOFF MINIMUMS:

Rwy 6, std. w/min. climb of 280' per NM to 600.

DEPARTURE PROCEDURE:

Rwy 6, climbing right turn to 2300 direct SLI VORTAC, thence .. .

Rwy 24, climbing left turn to 2300 direct SLI VORTAC, thence ...

... Climb in holding pattern (hold South, left turns, 351° inbound) until at or above MEA for direction of flight before proceeding course.

TAKEOFF OBSTACLE NOTES:

Rwy 6, windsock 58' from DER, 189' right of centerline, 12' AGL/109' MSL.
Obstruction light on pole 109' from DER, 116' left of centerline, 23' AGL/118' MSL.
Multiple poles beginning 115' from DER, left and right of centerline, up to 40' AGL/198' MSL.
Trains 221' from DER, left and right of centerline, up to 23' AGL/144' MSL.
Light standard 486' from DER, 133' right of centerline, 20' AGL/123' MSL.
Hopper on building 977' from DER, 468' left of centerline, 36' AGL/132' MSL.
Obstruction light on building 1002' from DER, 31' right of centerline, 25' AGL/128' MSL.
Light pole 1247' from DER, 143' left of centerline, 35' AGL/131' MSL.
Tree 1462' from DER, 35' left of centerline, 75' AGL/168' MSL.
Obstacle light on silo 1620' from DER, 317' right of centerline, 50' AGL/146' MSL.
Building 3206' from DER, 820' right of centerline, 112' AGL/217' MSL.
Obstruction light on building 3390' from DER, 913' right of centerline, 112' AGL/217' MSL.
Tower 6093' from DER, 1936' left of centerline, 94' AGL/267' MSL.
Rwy 24, vehicles on roadway 82' from DER, left and right of centerline, up to 15' AGL/114' MSL.
Light standard 85' from DER, 260' right of centerline, 25' AGL/110' MSL.
Light standard 217' from DER, 320' left of centerline, 104' AGL/122' MSL.
Antenna on building 272' from DER, 227' left of centerline, 31' AGL/116' MSL.
Trees beginning 352' from DER, 227' right of centerline, up to 60' AGL/155' MSL.
Pole 395' from DER, 279' left of centerline, 35' AGL/123' MSL.
Obstruction light on navaid 399' from DER, on centerline, 5' AGL/103' MSL.
Poles beginning 1335' from DER, right and left of centerline, up to 25' AGL/129' MSL.
Tree 1377' from DER, 159' left of centerline, 50' AGL/147' MSL.

HAWTHORNE, CA

JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

Rwy 7, 300-1¾ or std. w/min. climb of 365' per NM to 400.

Rwy 25, 300-1 or std. w/min. climb of 290' per NM to 300.

DEPARTURE PROCEDURE:

Rwy 7, climbing right turn to 3000 heading 220° and the LAX VORTAC R-170 to LIMBO INT.

Rwy 25, climbing left turn to 3000 heading 205° and the LAX VORTAC R-170 to LIMBO INT.

TAKEOFF OBSTACLE NOTES:

Rwy 7, trees, wall, vehicles on road, fence, lighting, pole, signs, buildings beginning 23' from DER, 3' left of centerline, up to 52' AGL/114' MSL.
Pole 29' from DER, 395' right of centerline, 30' AGL/89' MSL.
Signs, poles, wall, fence, lighting, vehicles on road, tree, building beginning 78' from DER, on and right of centerline, up to 38' AGL/94' MSL.
Trees, poles, vehicles on road, buildings, signs beginning 476' from DER, 39' left of centerline, up to 136' MSL.
Buildings, pole beginning 759' from DER, 96' right of centerline, up to 42' AGL/102' MSL.
Pole 1465' from DER, 203' right of centerline, 38' AGL/103' MSL.
Poles beginning 1489' from DER, 20' right of centerline, up to 41' AGL/111' MSL.
Trees beginning 2120' from DER, 110' left of centerline, up to 63' AGL/137' MSL.
Trees, poles beginning 2163' from DER, 84' left of centerline, up to 66' AGL/147' MSL.
Buildings beginning 2168' from DER, 264' right of centerline, up to 36' AGL/116' MSL.
Trees, poles beginning 2704' from DER, 112' left of centerline, up to 72' AGL/161' MSL.
Poles, trees beginning 2799' from DER, 54' right of centerline, up to 61' AGL/148' MSL.
Trees, poles beginning 2876' from DER, 27' left of centerline, up to 78' AGL/168' MSL.
Poles, trees beginning 2915' from DER, 277' right of centerline, up to 59' AGL/149' MSL.
Trees, poles beginning 2971' from DER, 94' right of centerline, up to 157' MSL.
Poles 3192' from DER, 172' right of centerline, 62' AGL/160' MSL.
Trees beginning 3207' from DER, 81' right of centerline, up to 67' AGL/167' MSL.

CON'T

SW-3, 05 NOV 2020 to 31 DEC 2020
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HAWTHORNE, CA (CON'T)

JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR) (CON'T)

Rwy 7 (CON'T), trees, poles beginning 3304' from DER, 8' left of centerline, up to 170' MSL.
Trees, poles beginning 3497' from DER, 109' right of centerline, up to 71' AGL/178' MSL.
Trees, poles, antenna, building beginning 3712' from DER, 102' left of centerline, up to 65' AGL/179' MSL.
Trees, poles beginning 3719' from DER, 2' right of centerline, up to 74' AGL/188' MSL.
Tree 3850' from DER, 1301' left of centerline, 41' AGL/180' MSL.
Trees, poles beginning 3859' from DER, 23' left of centerline, up to 51' AGL/185' MSL.
Trees, poles beginning 4061' from DER, 28' left of centerline, up to 203' MSL.
Tree 4074' from DER, 291' right of centerline, 69' AGL/190' MSL.
Tree 4079' from DER, 411' right of centerline, 82' AGL/202' MSL.
Trees, poles beginning 4101' from DER, 17' right of centerline, up to 90' AGL/211' MSL.
Trees, poles beginning 4323' from DER, 32' left of centerline, up to 52' AGL/212' MSL.
Trees, poles, building beginning 4484' from DER, 3' left of centerline, up to 66' AGL/235' MSL.
Pole, tree beginning 4932' from DER, 31' left of centerline, up to 46' AGL/236' MSL.
Building, pole beginning 4949' from DER, 46' right of centerline, up to 66' AGL/214' MSL.
Tree, pole, building beginning 4989' from DER, 1' right of centerline, up to 220' MSL.
Tree, pole, building beginning 5058' from DER, 44' left of centerline, up to 241' MSL.
Antenna, trees, buildings, sign, fence, tower beginning 5140' from DER, 93' left of centerline, up to 55' AGL/243' MSL.
Trees, poles beginning 5202' from DER, on and right of centerline, up to 78' AGL/227' MSL.
Trees, sign beginning 5356' from DER, 55' left of centerline, up to 54' AGL/249' MSL.
Trees, poles beginning 5383' from DER, 62' right of centerline, up to 102' AGL/257' MSL.
Towers, transmission lines, poles, sign, buildings, trees, elevator beginning 5428' from DER, 35' left of centerline, up to 139' AGL/307' MSL.
Tower, tree beginning 1.2 NM from DER, 1711' left of centerline, up to 115' AGL/322' MSL.
Building, monument, trees, towers, antenna, transmission line, pole beginning 1.2 NM from DER, 205' left of centerline, up to 104' AGL/328' MSL.
Tree 1.3 NM from DER, 16' right of centerline, 76' AGL/278' MSL.
Tower 1.4 NM from DER, 824' right of centerline, 116' AGL/289' MSL.
Tower 1.4 NM from DER, 317' right of centerline, 119' AGL/302' MSL.
Rwy 25, sign 24' from DER, 100' left of centerline, 3' AGL/67' MSL.
Pole, building beginning 51' from DER, 302' right of centerline, up to 38' AGL/105' MSL.
NAVAID 72' from DER, 1' left of centerline, 8' AGL/73' MSL.
Building, poles, fence beginning 112' from DER, 183' left of centerline, up to 30' AGL/95' MSL.
Trees, lighting, fence, vehicles on road, poles, sign, building, antenna beginning 128' from DER, on and right of centerline, up to 48' AGL/114' MSL.
Pole, fence, tree, sign beginning 158' from DER, 5' left of centerline, up to 38' AGL/102' MSL.
Pole, vehicles on road, tree, signs beginning 206' from DER, 38' left of centerline, up to 39' AGL/103' MSL.
Tree, vehicles on road, signs, buildings, poles beginning 258' from DER, 5' left of centerline, up to 40' AGL/105' MSL.
Pole, antenna, building, trees beginning 423' from DER, 39' left of centerline, up to 41' AGL/107' MSL.
Tree, antennas, buildings, vehicles on road, poles beginning 449' from DER, 5' left of centerline, up to 122' MSL.
Poles, trees, antenna beginning 670' from DER, 7' right of centerline, up to 54' AGL/120' MSL.
Trees, poles beginning 1031' from DER, 27' left of centerline, up to 62' AGL/128' MSL.
Trees, poles beginning 1054' from DER, 12' right of centerline, up to 136' MSL.
Trees beginning 2208' from DER, 32' right of centerline, up to 78' AGL/144' MSL.
Trees beginning 2218' from DER, 41' left of centerline, up to 65' AGL/131' MSL.
Tree, building beginning 2222' from DER, 3' right of centerline, up to 79' AGL/145' MSL.
Trees beginning 2229' from DER, 152' left of centerline, up to 66' AGL/132' MSL.
Tree 2239' from DER, 344' left of centerline, 67' AGL/135' MSL.
Trees beginning 2249' from DER, 11' left of centerline, up to 80' AGL/147' MSL.
Buildings, fence, tree beginning 2423' from DER, 148' left of centerline, up to 83' AGL/154' MSL.
Pole, tree beginning 2740' from DER, 360' right of centerline, up to 77' AGL/149' MSL.
Trees beginning 3179' from DER, 207' right of centerline, up to 74' AGL/150' MSL.
Tree 3222' from DER, 228' right of centerline, 76' AGL/153' MSL.
Tank 4537' from DER, 1313' left of centerline, 137' AGL/227' MSL.
Water tower 4539' from DER, 1321' left of centerline, 132' AGL/229' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 07DEC17 (17341) (FAA)

Rwy 7, heading as assigned by ATC; requires minimum climb of 370' per NM to 400.
Rwy 25, heading as assigned by ATC; requires minimum climb of 290' per NM to 300.

HEMET, CA

HEMET-RYAN (HMT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:

Rwy 5, Std. w/min. climb of 440' per NM to 3500, or 1700-3 for climb in visual conditions. Aircraft shall advise ATC prior to executing the VCOA.

Rwy 23, std. w/min. climb of 495' per NM to 3000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 5, climbing left turn direct HDF VOR thence...

Rwy 23, climb heading 230° to 3000 then right turn direct HDF VOR thence…

…continue climb in HDF holding pattern (hold se, right turn, 315° inbound) to cross HDF VOR at or above MEA/MCA for route of flight.

VCOA:

Rwy 5, 23, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Hemet -Ryan airport westbound at or above 3100 then proceed direct HDF VOR and continue climb in HDF holding Pattern (hold se, right turn, 315° inbound) to cross HDF VOR at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 5, vehicles on roadway, 199' from DER, crossing centerline, up to 15' AGL/1534' MSL.

Rwy 23, trees beginning 1.1 NM from DER, 2166' right of centerline, up to 100' AGL/1859' MSL.

Trees beginning 1.3 NM from DER, 2249' right of centerline, up to 100' AGL/2019' MSL.

Trees beginning 1.5 NM from DER, 1686' left of centerline, up to 100' AGL/1808' MSL.

IMPERIAL, CA

IMPERIAL COUNTY (IPL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 27AUG09 (09239) (FAA)

TAKEOFF MINIMUMS:

Rwy 14, 400-2¼ or std. w/ min. climb of 220' per NM to 400, or alternatively, with standard TAKEOFF minimums and a normal 200' per NM climb gradient, TAKEOFF must occur no later than 1800' prior to DER.

DEPARTURE PROCEDURE:

Rwys 8, 32, turn right.

Rwy 14, climb runway heading.

Rwy 26, turn left.

All aircraft climb direct IPL VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 8, multiple VASI beginning 687' from DER, 31' right of centerline, up to 5' AGL/-52' MSL.

Antenna on building 1033' from DER, 703' left of centerline, 45' AGL/ -12' MSL.

Light on pole, 1984' from DER, 386' left of centerline, 55 ft AGL/-2' MSL.

Rwy 14, building 1770' from DER, 38' left of centerline, 45' AGL/-11' MSL.

Road 430' from DER, 291' left of centerline, 15' AGL/-41' MSL.

Sign 1733' from DER, 35' left of centerline, 45' AGL/-11' MSL.

Pole 1457' from DER, 393' right of centerline, 37' AGL/-19' MSL.

Rwy 26, multiple obstruction lights on poles beginning 1509' from DER, 15' left of centerline, up to 60' AGL/3' MSL.

Obstruction light on pole 1511' from DER, 459' right of centerline, 59' AGL/2' MSL.

Rwy 32, obstruction light on tank, 823' from DER, 574' right of centerline 110' AGL/53' MSL.

Numerous tanks beginning 3580' from DER, 296' right of centerline, up to 109' AGL/53' MSL.

Tree 373' from DER, 387' right of centerline, 80' AGL/-24' MSL.

Multiple lights beginning 243' from DER, 361' right of centerline, up to 28' AGL/-29' MSL.

Pole 657' from DER, 370' left of centerline, 27' AGL/-30' MSL.

Road 191' from DER, 237' left of centerline, 13' AGL/-44' MSL.

SW-3, 05 NOV 2020 to 31 DEC 2020

IMPERIAL BEACH NOLF (REAM FIELD) (KNRS)

IMPERIAL BEACH, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

20AUG15 (15232)

Rwy 8, 9, 26, departures not authorized.

Rwy 27, diverse departure not authorized. Departures authorized for military rotorcraft only. Climb to 2000 via heading 274° to intercept NRS TACAN R-273. Cross NRS 1.5 DME at or above 800. Minimum ATC climb rate of 600'/NM till 800 with takeoff occurring NLT 3038' prior to DER or cross DER at or above 320.

TAKEOFF OBSTACLE NOTES:

Rwy 27, pylon 186' inward of DER, 552' right of cntrln, 30' AGL/43' MSL.
Pylon 79' inward of DER, 521' right of cntrln, 30' AGL/42' MSL.
Pylon 61' inward of DER, 587' right of cntrln, 39' AGL/51' MSL.
Pylon 30' inward of DER, 704' right of cntrln, 39' AGL/50' MSL.
Pylon 2' from DER, 499' right of cntrln, 32' AGL/43' MSL.
Pylon 2' from DER, 498' right of cntrln, 32' AGL/42' MSL.
Light pole 12' from DER, 502' right of cntrln, 40' MSL.
Terrain 50' from DER, 500' right of cntrln, 11' MSL.
Terrain 63' from DER, 517' right of cntrln, 11' MSL.
Fence 96' from DER, 19' right of cntrln, 9' AGL/10' MSL.
Tree 141' from DER, 540' right of cntrln, 34' AGL/44' MSL.
Pylon 228' from DER, 515' right of cntrln, 30' AGL/42' MSL.
Pylon 229' from DER, 515' right of cntrln, 30' AGL/39' MSL.
Pylon 305' from DER, 802' right of cntrln, 39' AGL/48' MSL.
Bldg 2840' from DER, 979' left of cntrln, 60' MSL.

INYOKERN, CA

INYOKERN (IYK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 04SEP03 (03247) (FAA)

TAKEOFF MINIMUMS:

Rwys 2, 10, 15, 28, 33, NA.

DEPARTURE PROCEDURE:

Rwy 20, use LAKE HUGHES RNAV DEPARTURE.

LA VERNE, CA

BRACKETT FIELD (POC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 03JAN19 (19003) (FAA)

TAKEOFF MINIMUMS:

Rwy 26L, 300-1 or std. w/min climb of 713' per NM to 1400.

Rwy 26R, 300-1 or std. w/min climb of 676' per NM to 1400.

DEPARTURE PROCEDURE:

Rwys 8L, 8R, climb heading 079° to 1500 then climbing right turn on heading 215° and POM R-164 to PRADO INT thence...

Rwys 26L, 26R, climb heading 259° to 1400 then climbing left turn on heading 130° and POM R-164 to PRADO INT thence...

...Continue climb in PRADO holding pattern (hold south, right turn, 344° inbound) to cross PRADO INT at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 8L, sign 24' from DER, 98' left of centerline, 1015' MSL.
Vehicles on road beginning 46' from DER, 479' left of centerline, up to 1030' MSL.
Vehicles on road 161' from DER, 477' left of centerline, 1031' MSL.
Vehicles on road, sign beginning 187' from DER, 462' left of centerline, up to 1032' MSL.
Vehicles on road beginning 327' from DER, 449' left of centerline, up to 1037' MSL.
Building, vehicles on road beginning 394' from DER, 418' left of centerline, up to 1061' MSL.
Building, tree beginning 561' from DER, 397' left of centerline, up to 1062' MSL.
Vehicles on road 602' from DER, 6' right of centerline, 1029' MSL.
Building, vehicles on road, pole beginning 683' from DER, 187' left of centerline, up to 1069' MSL.
Pole 1210' from DER, 518' right of centerline, 1047' MSL.
Transmission line 1299' from DER, 673' right of centerline, 55' AGL/1057' MSL.
Pole beginning 1401' from DER, 164' right of centerline, up to 1064' MSL.
Pole 1566' from DER, 294' right of centerline, 1065' MSL.
Pole beginning 1719' from DER, 24' right of centerline, up to 54' AGL/1067' MSL.
Pole beginning 1803' from DER, 148' left of centerline, up to 72' AGL/1094' MSL.
Tree, pole beginning 1806' from DER, 24' right of centerline, up to 1090' MSL.
Rwy 8R, sign 43' from DER, 239' right of centerline, 1016' MSL.
Vehicles on road 118' from DER, 463' right of centerline, 1017' MSL.
Vehicles on road 346' from DER, 7' right of centerline, 1021' MSL.
Vehicles on road 527' from DER, 294' left of centerline, 1029' MSL.
Vehicles on road 715' from DER, 641' left of centerline, 1034' MSL.
Pole 900' from DER, 515' left of centerline, 32' AGL/1049' MSL.
Pole beginning 1048' from DER, 217' right of centerline, up to 56' AGL/1052' MSL.

CON'T

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LA VERNE, CA (CON'T)

BRACKETT FIELD (POC) (CON'T)

Rwy 8R (CON'T), transmission line 1223' from DER, 372' right of centerline, 55' AGL/1057' MSL.
Pole beginning 1326' from DER, 131' left of centerline, up to 1064' MSL.
Pole beginning 1347' from DER, 74' right of centerline, up to 1062' MSL.
Pole 1490' from DER, 5' left of centerline, 1065' MSL.
Pole beginning 1517' from DER, 275' left of centerline, up to 51' AGL/1067' MSL.
Pole, tree beginning 1727' from DER, 24' left of centerline, up to 72' AGL/1094' MSL.
Trees beginning 1730' from DER, 669' right of centerline, up to 1090' MSL.
Pole, transmission line beginning 3447' from DER, 982' left of centerline, up to 1100' MSL.
Tree 3586' from DER, 14' left of centerline, 1101' MSL.
Tree 4027' from DER, 403' left of centerline, 1114' MSL.
Rwy 26L, sign 46' from DER, 199' left of centerline, 967' MSL.
Tree 159' from DER, 477' left of centerline, 989' MSL.
Tree 191' from DER, 482' left of centerline, 1003' MSL.
Vegetation 359' from DER, 498' left of centerline, 1010' MSL.
Vegetation, terrain, tree, building beginning 359' from DER, 225' left of centerline, up to 1028' MSL.
Trees beginning 561' from DER, 231' left of centerline, up to 1037' MSL.
Tree 814' from DER, 96' right of centerline, 990' MSL.
Trees beginning 824' from DER, 217' right of centerline, up to 1017' MSL.
Tree 851' from DER, 271' right of centerline, 1018' MSL.
Trees beginning 889' from DER, 66' right of centerline, up to 1021' MSL.
Trees beginning 998' from DER, 85' left of centerline, up to 1041' MSL.
Trees beginning 1027' from DER, 114' right of centerline, up to 1022' MSL.
Tree 1100' from DER, 330' right of centerline, 1023' MSL.
Trees beginning 1158' from DER, 0' right of centerline, up to 1026' MSL.
Trees beginning 1428' from DER, 20' left of centerline, up to 1042' MSL.
Trees beginning 1495' from DER, 51' right of centerline, up to 1028' MSL.
Tree, building beginning 1767' from DER, 697' right of centerline, up to 1033' MSL.
Building, terrain beginning 2358' from DER, 897' right of centerline, up to 1131' MSL.
Antenna, tree, vehicles on road, building, terrain, vegetation beginning 2404' from DER, 482' right of centerline, up to 1156' MSL.
Tree 2760' from DER, 1102' right of centerline, 1197' MSL.
Tree, vehicles on road, terrain, building beginning 2768' from DER, 483' right of centerline, up to 1212' MSL.
Tree, vehicles on road, terrain, building beginning 3147' from DER, 228' right of centerline, up to 1224' MSL.
Tank, vehicles on road, pole, tree, building, vegetation beginning 3429' from DER, 323' right of centerline, up to 50' AGL/1233' MSL.
Tree 3470' from DER, 10' left of centerline, 1065' MSL.
Rwy 26R, building beginning 7' from DER, 356' right of centerline, up to 1003' MSL.
Building 72' from DER, 488' right of centerline, 1004' MSL.
Building, sign beginning 72' from DER, 210' right of centerline, up to 1005' MSL.
Trees beginning 1405' from DER, 523' right of centerline, up to 1034' MSL.
Vegetation, terrain beginning 1463' from DER, 807' left of centerline, up to 1028' MSL.
Trees beginning 1526' from DER, 541' right of centerline, up to 1067' MSL.
Trees beginning 1664' from DER, 699' left of centerline, up to 1037' MSL.
Tree, vehicles on road beginning 1887' from DER, 942' right of centerline, up to 1068' MSL.
Trees beginning 2102' from DER, 716' left of centerline, up to 1041' MSL.
Trees beginning 2233' from DER, 723' right of centerline, up to 1100' MSL.
Trees beginning 2485' from DER, 987' right of centerline, up to 1109' MSL.
Tree, vehicles on road beginning 2974' from DER, 791' right of centerline, up to 1125' MSL.
Tree, vehicles on road beginning 3005' from DER, 796' right of centerline, up to 1133' MSL.
Tree, vehicles on road beginning 3256' from DER, 919' right of centerline, up to 1251' MSL.
Tree, vehicles on road, building, antenna, terrain, tank, pole, vegetation beginning 3300' from DER, 22' right of centerline, up to 1258' MSL.

LANCASTER, CA

GENERAL WM. J. FOX AIRFIELD (WJF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 24SEP09 (09267) (FAA)

DEPARTURE PROCEDURE:
Climb southeast bound on R-299 to PMD VORTAC. Depart PMD at published MCA for direction of flight.

TAKEOFF OBSTACLE NOTES:
Rwy 6, trees beginning 1170' from DER, 590' right of centerline, up to 44' AGL/2374' MSL.

LOMPOC, CA

LOMPOC (LPC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 04FEB16 (16035) (FAA)

TAKEOFF MINIMUMS:

Rwy 7, std. w/min. climb of 425' per NM to 1400, or 1300-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 7, climbing right turn. For climb in visual conditions: cross Lompoc Airport eastbound at or above 1200 MSL.

Rwy 25, turn right heading 130°.

All aircraft climb to 6000 via GVO R-278 to GVO VORTAC. Aircraft departing GVO R-120 CW R-020 climb on course, all others climb in GVO holding pattern (NW, right turns, 127° inbound) to depart GVO VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 7, trees 3583' from DER, 2.3 NM right of centerline, 50' AGL/889' MSL.

Trees 1.2 NM from DER, 2.2 NM right of centerline, 50' AGL/791' MSL.

Trees 1.6 NM from DER, 1.9 NM right of centerline, 50' AGL/743' MSL.

LONG BEACH, CA

LONG BEACH/DAUGHERTY FIELD (LGB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6B 10SEP20 (20254) (FAA)

TAKEOFF MINIMUMS:

Rwy 26L, std. w/min. climb of 225' per NM to 2300.

Rwy 26R, std. w/min. climb of 230' per NM to 2300.

DEPARTURE PROCEDURE:

Rwys 8L, **8R,** climb on heading 076° to 800, then climbing right turn direct SLI VORTAC then on SLI VORTAC R-210 to PADDR INT.

Rwy 12, climb on heading 121° to intercept SLI VORTAC R-210 to PADDR INT.

Rwys 26L, 26R, climb on heading 256° to 800, then climbing left turn on heading 200 and LAX VORTAC R-145 to PADDR INT.

Rwy 30, climb on heading 301° to 800, then climbing left turn on heading 200 and LAX VORTAC R-145 to PADDR INT.

TAKEOFF OBSTACLE NOTES:

Rwy 8L, vehicles on road 1' from DER, 272' left of centerline, 52' MSL.

Pole 10' from DER, 489' left of centerline, 27' AGL/66' MSL.

Building, tree, vehicles on road, and poles beginning 63' from DER, 15' left of centerline, up to 41' AGL/77' MSL.

Vehicles on road 121' from DER, 278' right of centerline, 52' MSL.

Buildings and vehicles on road beginning 193' from DER, 2' right of centerline, up to 53' MSL.

Buildings, vehicles on road, poles, and trees beginning 440' from DER, 13' left of centerline, up to 43' AGL/79' MSL.

Building and tree beginning 514' from DER, 13' right of centerline, up to 67' MSL.

Building, poles, and trees beginning 590' from DER, 47' right of centerline, up to 73' MSL.

Tree 716' from DER, 20' right of centerline, 34' AGL/76' MSL.

Trees beginning 769' from DER, 36' right of centerline, up to 80' AGL/116' MSL.

Building and trees beginning 1088' from DER, 22' left of centerline, up to 52' AGL/89' MSL.

Trees beginning 1789' from DER, 280' right of centerline, up to 83' AGL/118' MSL.

Trees beginning 2102' from DER, 180' left of centerline, up to 60' AGL/98' MSL.

Tree 2399' from DER, 612' left of centerline, 112' MSL.

Trees beginning 2427' from DER, 101' left of centerline, up to 123' MSL.

Trees beginning 2739' from DER, 711' right of centerline, up to 121' MSL.

Rwy 8R, wind indicator 715' from DER, 227' left of centerline, 21' AGL/54' MSL.

Tower 746' from DER, 566' right of centerline, 26' AGL/58' MSL.

Building 1038' from DER, 575' left of centerline, 39' AGL/73' MSL.

Buildings beginning 1126' from DER, 570' left of centerline, up to 76' MSL.

Buildings beginning 1528' from DER, 902' left of centerline, up to 58' AGL/90' MSL.

Tree 2755' from DER, 1058' right of centerline, 93' AGL/110' MSL.

Buildings beginning 2978' from DER, 803' right of centerline, up to 85' AGL/118' MSL.

Buildings beginning 3038' from DER, 903' right of centerline, up to 90' AGL/120' MSL.

Buildings beginning 3500' from DER, 1095' right of centerline, up to 133' AGL/162' MSL.

Buildings beginning 3651' from DER, 1203' right of centerline, up to 145' AGL/163' MSL.

Rwy 12, vehicles on road beginning 5' from DER, 432' right of centerline, up to 39' MSL.

Pole and trees beginning 474' from DER, 619' left of centerline, up to 53' MSL.

Tree 678' from DER, 659' right of centerline, 60' MSL.

Trees beginning 981' from DER, 127' right of centerline, up to 89' AGL/92' MSL.

General utility, poles, and trees beginning 990' from DER, 334' left of centerline, up to 71' MSL.

Trees beginning 1341' from DER, 361' left of centerline, up to 50' AGL/72' MSL.

Tree 2055' from DER, 890' left of centerline, 82' MSL.

Trees beginning 2332' from DER, 470' left of centerline, up to 81' AGL/101' MSL.

Tree 2553' from DER, 762' left of centerline, 83' AGL/103' MSL.

Tree 2918' from DER, 1249' right of centerline, 99' MSL.

Tree 3004' from DER, 1205' left of centerline, 109' MSL.

Spire 3095' from DER, 1181' right of centerline, 98' AGL/118' MSL.

Tree 3394' from DER, 1063' left of centerline, 95 ' AGL/121' MSL.

CON'T

LONG BEACH, CA (CON'T)

LONG BEACH/DAUGHERTY FIELD (CON'T)

Rwy 26L, buildings beginning 110' from DER, 505' left of centerline, up to 81' MSL.
Pole 227' from DER, 554' left of centerline, 87' MSL.
Buildings beginning 261' from DER, 520' right of centerline, up to 73' MSL.
Trees and poles beginning 482' from DER, 369' left of centerline, up to 93' MSL.
Building 722' from DER, 672' right of centerline, 122' MSL.
Building and sign beginning 1040' from DER, 235' left of centerline, up to 118' MSL.
Building 1112 ' from DER, 745' left of centerline, 123' MSL.
Buildings, poles, stack, tower, and trees beginning 1149' from DER, 96' right of centerline, up to 105' AGL/163' MSL.
Trees, buildings, sign, poles, transmission line, and tower beginning 1161' from DER, 123' left of centerline, up to 88' AGL/153' MSL.
Tree 3909' from DER, 1450' left of centerline, 161' MSL.
Pole 4520' from DER, 1646' left of centerline, 175' MSL.
Rwy 26R, vehicles on road and pole beginning 9' from DER, 276' left of centerline, up to 72' MSL.
Vehicles on road beginning 95' from DER, 165' right of centerline, up to 78' MSL.
Vehicles on road 109' from DER, 467' left of centerline, 73' MSL.
Vehicles on road 192' from DER, 374' left of centerline, 76' MSL.
Vehicles on road beginning 237' from DER, 289' left of centerline, up to 77' MSL.
Trees, buildings, vehicles on road, and poles beginning 241' from DER, 5' right of centerline, up to 97' MSL.
Poles and vehicles on road beginning 320' from DER, 195' left of centerline, up to 34' AGL/95' MSL.
Poles and vehicles on road beginning 475' from DER, 15' left of centerline, up to 96 ' MSL.
Tree, poles, vehicles on road, and buildings beginning 612' from DER, 52' left of centerline, up to 97' MSL.
Trees, buildings, and poles beginning 622' from DER, on centerline, up to 59' AGL/122' MSL.
Signs, poles, and trees beginning 1151' from DER, 7' left of centerline, up to 77' AGL/139' MSL.
Trees and poles beginning 1262' from DER, on centerline, up to 65' AGL/124' MSL.
Trees and poles beginning 1306' from DER, 76' right of centerline, up to 84' AGL/144' MSL.
Trees beginning 1886' from DER, 33' right of centerline, up to 147' MSL.
Trees beginning 2604' from DER, 303' right of centerline, up to 78' AGL/150' MSL.
Trees beginning 2918' from DER, 7' right of centerline, up to 82 ' AGL/156' MSL.
Trees beginning 3536' from DER, 69' left of centerline, up to 73' AGL/154' MSL.
Building 3955' from DER, 1343' right of centerline, 173' MSL.
Building 1.0 NM from DER, 963' right of centerline, 154' AGL/243' MSL.
Buildings beginning 1.1 NM from DER, 935' right of centerline, up to 156' AGL/248' MSL.
Building 1.2 NM from DER, 651' right of centerline, 157' AGL/259' MSL.
Rwy 30, vehicles on road 15' from DER, 480' right of centerline, 74' MSL.
Vehicles on road 190' from DER, 456' right of centerline, 75' MSL.
Pole and vehicles on road beginning 193' from DER, on centerline, up to 34' AGL/93' MSL.
Building 350' from DER, 554' left of centerline, 18' AGL/82' MSL.
Building and vehicles on road beginning 440' from DER, 25' left of centerline, up to 21' AGL/86' MSL.
Pole, building, and vehicles on road beginning 678' from DER, 17' left of centerline, up to 22' AGL/89' MSL.
Tree and poles beginning 878' from DER, 122' left of centerline, up to 92' MSL.
Pole 953' from DER, 564' right of centerline, 94' MSL.
Poles beginning 983' from DER, 516' left of centerline, up to 25' AGL/93' MSL.
Pole and tree beginning 1009' from DER, 69' left of centerline, up to 33' AGL/101' MSL.
Terrain, tree, poles, and vehicles on road beginning 1024' from DER, 8' left of centerline, up to 33' AGL/102' MSL.
Poles and trees beginning 1057' from DER, 23' right of centerline, up to 102' MSL.
Terrain, building, poles, and trees beginning 1207' from DER, 63' left of centerline, up to 66' AGL/133' MSL.
Poles and buildings beginning 1302' from DER, 52' right of centerline, up to 35' AGL/103' MSL.
Poles beginning 1472' from DER, 294' right of centerline, up to 36' AGL/105' MSL.
Trees beginning 1614' from DER, 103' right of centerline, up to 44' AGL/112' MSL.
Tree 1701' from DER, 363' right of centerline, 121' MSL.
Trees beginning 1874' from DER, 196' right of centerline, up to 57' AGL/125' MSL.
Trees and poles beginning 2183' from DER, 169' left of centerline, up to 134' MSL.
Building 2520' from DER, 776' right of centerline, 128' MSL.
Building 2617' from DER, 802' right of centerline, 66' AGL/139' MSL.
Trees beginning 2738' from DER, 417' left of centerline, up to 142' MSL.
Poles beginning 2992' from DER, 311' right of centerline, up to 72' AGL/145' MSL.
Tree 3379' from DER, 839' right of centerline, 150' MSL.
Tree 3528' from DER, 1000' left of centerline, 160' MSL.
Tree 3643' from DER, 1074' left of centerline, 166' MSL.
Trees beginning 3769' from DER, 873' left of centerline, up to 174' MSL.
Tree 3779' from DER, 1222' right of centerline, 158' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 19JUL18 (18200) (FAA)

Rwys 8L, 8R, 12, 30 heading as assigned by ATC.
Rwy 26L, heading as assigned by ATC; requires minimum climb of 330' per NM to 700.
Rwy 26R, heading as assigned by ATC; requires minimum climb of 230' per NM to 1600.

LOS ALAMITOS AAF (KSLI), CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

22JUN17 (17173)

DEPARTURE PROCEDURE:

All aircraft, climb direct SLI VORTAC. Aircraft departing SLI VORTAC R-040 CW 345° climb on course. All others continue climb via the SLI R-171 southbound then climbing right turn direct SLI VORTAC to cross at or above 4600.

Rwys 4L/R, climbing right turn.

Rwys 22L/R, 300-1 or std with a min climb of 230 ft/NM to 400, climbing left turn.

TAKEOFF OBSTACLE NOTES:

Rwy 4R, trees 1062' from DER, 615' left of cntrln, 66' AGL/100' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 20JUN19 (19171) (FAA)

Rwys 4L, 4R, 22L, 22R, heading as assigned by ATC.

LOS ANGELES, CA

LOS ANGELES INTL (LAX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 14 17AUG17 (17229) (FAA)

DEPARTURE PROCEDURE:

Rwys 6L/R, 7L/R, climb to 2000 heading 071°, then climbing right turn, thence...

Rwys 24L/R, climb to 2000 heading 251°, then climbing left turn, thence...

Rwys 25L/R, turbojet climb to 2000 heading 251°, then climbing left turn, thence…

non-turbojet climb to 2000 heading 251°, at the SMO R-154 turn left heading 200°, thence…

...climb direct SLI VORTAC, then climb on course.

TAKEOFF OBSTACLE NOTES:

Rwy 6L, runway light 7' from DER, 4' left of centerline, 1' AGL/120' MSL.
Vehicles on road beginning 12' from DER, 170' left of centerline, up to 131' MSL.
Buildings beginning 1761' from DER, 920' left of centerline, up to 92' AGL/203' MSL.
Rwy 6R, NAVAID 79' from DER, 321' left of centerline, 20' AGL/123' MSL.
NAVAID 83' from DER, 1' right of centerline, 19' AGL/126' MSL.
Pole and light pole beginning 323' from DER, on centerline, up to 16' AGL/138' MSL.
Light poles beginning 528' from DER, 58' left of centerline, up to 30' AGL/137' MSL.
Pole 779' from DER, 1' right of centerline, 34' AGL/140' MSL.
Light pole 779' from DER, on centerline, 35' AGL/142' MSL.
Pole 793' from DER, 459' right of centerline, 39' AGL/145' MSL.
Approach light and light pole beginning 797' from DER, 305' left of centerline, up to 39' AGL/148' MSL.
Approach lights beginning 1006' from DER, 697' left of centerline, up to 42' AGL/149' MSL.
Tree 1057' from DER, 400' left of centerline, 41' AGL/150' MSL.
Trees beginning 1160' from DER, 320' left of centerline, up to 49' AGL/157' MSL.
Tree 1374' from DER, 309' left of centerline, 47' AGL/159' MSL.
Tree 1385' from DER, 317' left of centerline, 50' AGL/163' MSL.
Tree 1699' from DER, 101' right of centerline, 57' AGL/164' MSL.
Rwy 7L, fences beginning 168' from DER, 31' left of centerline, up to 14' AGL/107' MSL.
Fence and vehicles on road beginning 168' from DER, on centerline, up to 14' AGL/107' MSL.
Vehicles on road 182' from DER, 480' left of centerline, 109' MSL.
Vehicles on road, fence, tower, railroad, and pole beginning 197' from DER, 24' left of centerline, up to 24' AGL/118' MSL.
Railroad and vehicles on road beginning 309' from DER, 14' right of centerline, up to 117' MSL.
Runway light, NAVAID, vehicles on road, and pole beginning 444' from DER, on centerline, up to 29' AGL/121' MSL.
Sign 494' from DER, 478' left of centerline, 32' AGL/124' MSL.
Sign and light pole beginning 508' from DER, 263' left of centerline, up to 32' AGL/126' MSL.
Runway light, pole, and building beginning 700' from DER, 53' left of centerline, up to 58' AGL/152' MSL.
Rwy 7R, runway light 10' from DER, 5' right of centerline, 2' AGL/99' MSL.
Runway light 10' from DER, 5' left of centerline, 2' AGL/99' MSL.
Building 792' from DER, 701' right of centerline, 37' AGL/130' MSL.
Tree 1250' from DER, 746' right of centerline, 129' AGL/155' MSL.
Rwy 24L, vehicles on road 1927' from DER, 1010' right of centerline, 163' MSL.
Light pole 2163' from DER, 915' right of centerline, 32' AGL/169' MSL.
Rwy 24R, windsock 137' from DER, 400' left of centerline, 21' AGL/128' MSL.
Tower 211' from DER, 401' left of centerline, 66' AGL/151' MSL.
Tower 212' from DER, 402' left of centerline, 47' AGL/154' MSL.
Rwy 25L, vehicles on road 35' from DER, 422' left of centerline, 130' MSL.
Pole 2365' from DER, 766' left of centerline, 57' AGL/184' MSL.
Tree and transmission tower beginning 2488' from DER, 757' left of centerline, up to 66' AGL/200' MSL.
Rwy 25R, building 74' from DER, 364' left of centerline, 27' AGL/135' MSL.
Tree 2959' from DER, 569' left of centerline, 7' AGL/189' MSL.
Pole and antenna beginning 3073' from DER, 212' left of centerline, up to 30' AGL/203' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 6 14SEP17 (17257)

Rwys 6L/R, 7L/R, 24L/R, **25L/R,** headings as assigned by ATC.

LOS ANGELES, CA (CON'T)

WHITEMAN (WHP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE:

Use WHITEMAN DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 12, pole beginning 34' from DER, 276' right of centerline, up to 20' AGL/979' MSL.
Building 180' from DER, 9' left of centerline, 22' AGL/978' MSL.
Tower, pole beginning 489' from DER, 278' right of centerline, up to 60' AGL/1012' MSL.
Stack 1 NM from DER, 1131' left of centerline, 250' AGL/1183' MSL.
Rwy 30, pole 29' from DER, 277' left of centerline, 20' AGL/1024' MSL.
Pole 152' from DER, 282' left of centerline, 20' AGL/1025' MSL.
Pole 262' from DER, 282' left of centerline, 20' AGL/1027' MSL.
Pole 372' from DER, 283' left of centerline, 20' AGL/1028' MSL.
Pole beginning 482' from DER, 282' left of centerline, up to 20' AGL/1029' MSL.
Pole 703' from DER, 283' left of centerline, 20' AGL/1030' MSL.
Pole 812' from DER, 283' left of centerline, 20' AGL/1031' MSL.
Pole beginning 922' from DER, 283' left of centerline, up to 20' AGL/1032' MSL.
Pole 1141' from DER, 283' left of centerline, 20' AGL/1033' MSL.
Tower 1700' from DER, 511' right of centerline, 49' AGL/1075' MSL.
Tower 3532' from DER, 1118' right of centerline, 54' AGL/1098' MSL.

MARCH ARB (KRIV)

RIVERSIDE, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 24MAY18 (18144)

TAKEOFF MINIMUMS:

Rwys 12, 30, not authorized.
Rwy 32, 1200-3, or std. w/ min. climb rate of 240' per NM to 3100.

DEPARTURE PROCEDURE:

Rwy 14, climb direct HDF VOR, then climbing right turn on hdg between 155° CW to 181°. Max airspeed 250K. Use caution when departing, rapid rising terrain within 3.5 NM se of March ARB.
Rwy 32, climb left turn HDG between 150° to 135° CCW from DER. Maximum 250K or 2300-3 **For Climb in Visual conditions** within 4.5 NM of March ARB, cross March ARB at or above 3700' MSL, then climb and maintain 6000 direct HDF VOR, then via HDF R-153 to HDF R-153/PDZ R-130, direct SKYES int. Do not exceed 250K until passing SKYES. Aircraft shall advise ATC prior to executing VCOA. VCOA not available for Cat E aircraft.

TAKEOFF OBSTACLE NOTES:

Rwy 14, tree 2248' from DER, 1000' right of centerline, 150' AGL/1630' MSL.
Tree 1920' from DER, 1000' right of centerline, 150' AGL/1630' MSL.
Tree 1789' from DER, 1000' right of centerline, 150' AGL/1630' MSL.
Tree 2278' from DER, 1002' left of centerline, 150' AGL/1622' MSL.
Aircraft 28' inward of DER, 542' left of centerline, 65' AGL/1550' MSL.
Aircraft 31' inward of DER, 298' left of centerline, 30' AGL/1516' MSL.
Rwy 32, aircraft 30' from DER, 526' right of centerline, 65' AGL/1600' MSL.
Aircraft 5' from DER, 282' right of centerline, 30' AGL/1565' MSL.

MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

SAN DIEGO, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

13SEP18 (18256)

TAKEOFF MINIMUMS:

Rwys 6L/R, 340° through 150° CW-Civil, std w/min climb of 300'/NM to 7600; Military, std w/min climb of 280'/NM to 7600.
Rwys 24L/R, 100° through 340° CW-Civil, std w/min climb of 290'/NM to 7600; Military, std w/min climb of 270'/NM to 7600.

TAKEOFF OBSTACLE NOTES:

Rwy 6L, building 2321' from DER, 1084' left of cntrln, 0' AGL/539' MSL.
Twr 2322' from DER, 1083' left of cntrln, 53' AGL/538' MSL.
Twr 2366' from DER, 1083' left of cntrln, 53' AGL/538' MSL.
Rwy 24L, terrain 0' from DER, 500' left of cntrln, 458' MSL.
Terrain 384' from DER, 549' right of cntrln, 459' MSL.
Terrain 50' from DER, 507' right of cntrln, 459' MSL.
Landfill 3091' from DER, 1243' left of cntrln, 40' AGL/525' MSL.
Landfill 3312' from DER, 1197' left of cntrln, 40' AGL/525' MSL.
Landfill 3388' from DER, 1023' left of cntrln, 40' AGL/525' MSL.
Landfill 3792' from DER, 1225' left of cntrln, 40' AGL/525' MSL.
Pylon 3978' from DER, 1295' left of cntrln, 50' AGL/498' MSL.
Pylon 4087' from DER, 1363' left of cntrln, 50' AGL/505' MSL.

MOJAVE, CA

MOJAVE AIR AND SPACE PORT (MHV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 26JUN14 (14177) (FAA)

TAKEOFF MINIMUMS:

Rwys 4, 8, 12, NA - restricted airspace.

Rwys 22, 26, std. w/min. climb of 415' per NM to 6800 or 4100-3 for climb in visual conditions.

Rwy 30, std. w/min. climb of 510' per NM to 5600 or 4100-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 22, climb to 8000 heading 218° and LHS R-023 to LHS VORTAC.

Rwy 26, climbing left turn to 8000 heading 218° and LHS R-023 to LHS VORTAC.

Rwy 30, climbing left turn to 8000 heading 200° and LHS R-023 to LHS VORTAC.

VCOA:

Rwy 22, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions cross Mojave airport southwest bound at or above 6800, then climb to 8000 on LHS R-023 to LHS VORTAC.

Rwy 26, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions cross Mojave airport at or above 6800, then climb to 8000 on LHS R-023 to LHS VORTAC.

Rwy 30, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions cross Mojave airport at or above 6800, then climb to 8000 on LHS R-023 to LHS VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 22, antenna on tower 2260' from DER, 812' right of centerline, 60' AGL/2838' MSL.
Sign 283' from DER, 466' right of centerline, 10' AGL/2788' MSL.

Rwy 26, antenna on tower 1797' from DER, 615' left of centerline, 58' AGL/2838' MSL.
Sign 32' from DER, 341' right of centerline, 8' AGL/2788' MSL.
Tree 258' from DER, 120' left of centerline, 8' AGL/2788' MSL.

Rwy 30, multiple poles beginning 3083' from DER, 306' right of centerline, up to 91' AGL/2892' MSL.
Road and railroad beginning 1241' from DER, right and left of centerline, up to 44' AGL/2845' MSL.
Bush 305' from DER, 457' right of centerline, 16' AGL/2817' MSL.

MURRIETA/TEMECULA, CA

FRENCH VALLEY (F70)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 11SEP97 (97254) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, NA.

Rwy 36, 700-2 or std. with a min. climb of 340' per NM to 2200.

DEPARTURE PROCEDURE:

Rwy 36, climb runway heading to 2200, then climbing left turn via HDF R-145 to HDF VOR. Aircraft departing HDF VOR 065° CW 352° climb on course. Aircraft departing northeast bound, climb in HDF holding pattern, (SE, right turns, 315° inbound) to depart HDF VOR at or above: 353° CW 054°, 6800; 055° CW 064°, 5800; before proceeding on course.

NEEDLES, CA

NEEDLES (EED)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 09JAN14 (14009) (FAA)

TAKEOFF MINIMUMS:

Rwy 11, std. w/min. climb of 235' per NM to 2800, or 2600-3 for climb in visual conditions.

Rwy 20, std. w/min. climb of 420' per NM to 3700, or 2600-3 for climb in visual conditions.

Rwy 29, std. w/min. climb of 390' per NM to 2200, or 2600-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 2, climb heading 015° to 1700, then climbing right turn direct EED VORTAC, thence . . .

Rwys 11, 20, climbing left turn direct EED VORTAC, thence . . .

Rwy 29, climbing right turn direct EED VORTAC, thence . . .

. . . Climb in EED holding pattern (hold NW, right turns, 139° inbound) to cross EED VORTAC at or above MEA for route of flight before proceeding on course. Or for climb in visual conditions cross Needles airport at or above 3400 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 11, terrain 20' from DER, 301' right of centerline, 920' MSL.

Rwy 20, building 73' from DER, 451' left of centerline, 21' AGL/976' MSL.
Windsock 181' from DER, 409' left of centerline, 23' AGL/972' MSL.
Terrain beginning 295' from DER, 341' right of centerline up to 1079' MSL.

Rwy 29, terrain 92' from DER, 328' left of centerline 1000' MSL.

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)
SAN DIEGO, CA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
05NOV20 (20310)
DEPARTURE PROCEDURE:
Rwy 11, diverse departures authorized 131° CW 184°. Std. w/min. climb of 223' per NM to 500. Make immediate right turn to assigned heading within 1.4 DME of NZY TACAN to avoid over flying the city of Coronado.
Rwy 18, diverse departures authorized 131° CW 177°.
Rwy 29, diverse departures not authorized. Use published departure procedure.
Rwy 36, departure not authorized.
TAKEOFF OBSTACLE NOTES:
Rwy 11, numerous trees left and right of Rwy cntrln from 9' prior to DER to 2018', 33' MSL to 95' MSL.
Golf ball fencing 2226' from DER, 1215' left of cntrln, 74' AGL/88' MSL.
Tree 8' inward of DER, 429' right of cntrln, 48' AGL/74' MSL.
Tree 11' from DER, 525' right of cntrln, 46' AGL/73' MSL.
Multiple trees 159' from DER, 433' right of cntrln, 43' AGL/71' MSL.
Tree 78' from DER, 371' right of cntrln, 29' AGL/56' MSL.
Tree 91' from DER, 460' right of cntrln, 28' AGL/55' MSL.
Palm 90' from DER, 468' right of cntrln, 27' AGL/54' MSL.
Rwy 18, top of light pole 1031' from DER, 626' right of cntrln, 40' MSL.
Top of light pole 1209' from DER, 625' right of cntrln, 41' MSL.
Top of light pole 491' from DER, 627' right of cntrln, 39' MSL.
Top of light pole 669' from DER, 625' right of cntrln, 38' MSL.
Top of light pole 850' from DER, 627' right of cntrln, 40' MSL.
Rwy 29, shipping channel accommodating vessels, starting 2577' from DER, on cntrln, up to 200' AGL (206' MSL with tidal range).
Twin twrs 1.4 NM from DER, 2645' left of cntrln, 145' AGL/534' MSL.
Twr 1.5 NM from DER, 1969' left of cntrln, 479' MSL.
Twr 1.5 NM from DER, 2054' left of cntrln, 100' AGL/455' MSL.
Twr 1139' from DER, 2.1 NM left of cntrln, 120' AGL/544' MSL.

OCEANSIDE, CA
BOB MAXWELL MEMORIAL AIRFIELD (OKB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4A 28APR16 (16119) FAA
TAKEOFF MINIMUMS:
Rwy 6, 400-1 or std. with a min. climb of 320' per NM to 500.
Rwy 24, 300-1 or std. with a min. climb of 670' per NM to 300.
DEPARTURE PROCEDURE:
Rwy 6, climbing right turn.
Rwy 24, climbing left turn.
All aircraft climb via heading 235° to 1500, then climbing right turn direct OCN VORTAC.

ONTARIO, CA
ONTARIO INTL (ONT)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 9 26MAY16 (16147) (FAA)
TAKEOFF MINIMUMS:
Rwy 8L, 8R, std. w/ min. climb of 285' per NM to 3000.
DEPARTURE PROCEDURE:
Rwy 8L, 8R, climb heading 078° to 2600 then climbing right turn direct PDZ VORTAC, thence ...
Rwys 26L, 26R, climb heading 258° to 2600 then climbing left turn direct PDZ VORTAC, thence...
...climb in PDZ holding pattern (hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above MEA for route of flight before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 8L, grd 81' from DER, 443' left of centerline, 936' MSL.
Building 1605' from DER, 846' left of centerline, 975' MSL.
Lt poles beginning 2042' from DER, 684' left of centerline, up to 990' MSL.
Rwy 26L, pole 754' from DER, 670' left of centerline, 964' MSL.
Trees beginning 1050' from DER, 708' left of centerline, up to 985' MSL.
Tree 1987' from DER, 329' left of centerline, 986' MSL.
OL on GS, 125' from DER, 339' right of centerline, 982' MSL.
Rwy 26R, grd, antenna on building, beginning 30' from DER, 396' left of centerline, up to 951' MSL.
Lt pole 483' from DER, 263' left of centerline, 973' MSL.
Pole, RR, LT pole beginning 580' from DER, 371' left of centerline, up to 978' MSL.
OL on DME, OL on LOC, beginning 369' from DER, 1' right of centerline, up to 962' MSL.
Lt poles beginning 1144' from DER, 211' right of centerline, up to 981' MSL.
Pole, LT pole beginning 1244' from DER, 543' right of centerline, up to 986' MSL.
Tree 1672' from DER, 696' right of centerline, 996' MSL.
Trees, beginning 2882' from DER, 673' right of centerline, up to 1030' MSL.
CON'T

ONTARIO, CA (CON'T)

ONTARIO INTL (ONT) (CON'T)

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 26MAY16 (16147) (FAA)

Rwy 8L, headings as assigned by ATC; requires minimum climb of 280' per NM to 2900.
Rwy 8R, headings as assigned by ATC; requires minimum climb of 285' per NM to 2900.
Rwys 26L, 26R, headings as assigned by ATC.

OXNARD, CA

OXNARD (OXR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 15JUN00 (00167) (FAA)

TAKEOFF MINIMUMS:
Rwy 7, 2100-5 or std. with a min. climb of 290' per NM to 2600.

DEPARTURE PROCEDURE:
Rwy 7, climbing left turn.
Rwy 25, climb runway heading.
All aircraft continue climb to 6000 (or assigned altitude) via CMA R-249 to SQUID INT Aircraft departing SQUID INT 040° CW 300° climb on course. All others continue climb in SQUID holding pattern (hold W, right turns, 069° inbound) to cross SQUID INT at or above 2300.

TAKEOFF OBSTACLE NOTES:
Rwy 7, 59' AGL tree 527' from DER, 501' left of centerline.

PALM SPRINGS, CA

BERMUDA DUNES (UDD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 15SEP16 (16259) (FAA)

DEPARTURE PROCEDURE:
Use BERMUDA DUNES DEPARTURE.

JACQUELINE COCHRAN RGNL (TRM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 15SEP16 (16259) (FAA)

TAKEOFF MINIMUMS:
Rwy 12, std. w/min. climb of 364' per NM to 3400.
Rwy 17, std. w/min. climb of 374' per NM to 3400.
Rwy 30, std. w/min. climb of 340' per NM to 3400.
Rwy 35, std. w/min. climb of 402' per NM to 3400.

DEPARTURE PROCEDURE:
Rwy 12, climbing right turn to intercept TRM VORTAC R-136 to MECCA, thence…
Rwy 17, Climbing left turn heading 100° to intercept TRM VORTAC R-136 to MECCA, thence…
Rwys 30, 35, Climbing right turn heading 180° to intercept TRM VORTAC R-136 to MECCA, thence…
…aircraft departing MECCA on TRM VORTAC R-101 CW R-139, climb on course. All others turn left direct TRM VORTAC and climb in TRM VORTAC holding pattern (hold e, right turns, 289° inbound) until reaching MEA/MCA for route of flight. DME required.

TAKEOFF OBSTACLE NOTES:
Rwy 12, tree 52' from DER, 495' left of centerline, 14' AGL/-117' MSL.
Tree 131' from DER, 455' right of centerline, 20' AGL/-111' MSL.
Windsock 195' from DER, 444' left of centerline, 22' AGL/-109' MSL.
Tree 623' from DER, 403' right of centerline, 18' AGL/-113' MSL.
Tree 1427' from DER, 814' left of centerline, 60' AGL/- 71' MSL.
Rwy 17, tree 58' from DER, 491' right of centerline, 6' AGL/-129' MSL.
Tree 82' from DER, 188' right of centerline, 34' AGL/-101' MSL.
Tree 168' from DER, 432' left of centerline, 18' AGL/-117' MSL.
Tree 235' from DER, 429' left of centerline, 16' AGL/-119' MSL.
Rwy 30, bush 11' from DER, 150' left of centerline, 4' AGL/-112' MSL.
Tree 104' from DER, 496' right of centerline, 26' AGL/-112' MSL.
Tree 145' from DER, 458' left of centerline, 9' AGL/-107' MSL.
Tree 258' from DER, 281' left of centerline, 19' AGL/-97' MSL.
Tree 701' from DER, 278' right of centerline, 22' AGL/-94' MSL.
Tree 896' from DER, 223' left of centerline, 26' AGL/-90 MSL.
Rwy 35, windsock 54' from DER, 190' right of centerline, 8' AGL/-107' MSL.
Tree 102' from DER, 258' right of centerline, 19' AGL/-96' MSL.
Tree 196' from DER, 295' right of centerline, 18' AGL/-97' MSL.
Tree 318 ' from DER, 372' right of centerline, 31' AGL/-84' MSL.
Tree 445' from DER, 418' left of centerline, 18' AGL/- 97' MSL.
Tree 464' from DER, 337' left of centerline, 14' AGL/-101' MSL.
Tree 697' from DER, 265' right of centerline, 22' AGL/-93' MSL.
Tree 1778' from DER, 964' left of centerline, 93' AGL/-22' MSL.

SW-3, 05 NOV 2020 to 31 DEC 2020

PALM SPRINGS, CA (CON'T)

PALM SPRINGS INTL (PSP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 27JUN13 (13178) (FAA)

TAKEOFF MINIMUMS:

Rwy 13L, minimum climb of 440' per NM to 2300' or 5900-3 for climb in visual conditions.

Rwy 13R, minimum climb of 422' per NM to 2300' or 5900-3 for climb in visual conditions.

Rwy 31L, minimum climb of 386' per NM to 4500' or 5900-3 for climb in visual conditions.

Rwy 31R, minimum climb of 405' per NM to 4500' or 5900-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwys 13L/R, climbing left turn heading 090° to intercept TRM R-304 to TRM VORTAC or for climb in visual conditions cross Palm Springs Intl airport at or above 6300 then direct PSP VORTAC thence ...

Rwy's 31L/R, climbing right turn direct PSP VORTAC thence ..., or for climb in visual conditions cross Palm Springs Intl airport at or above 6300 then direct PSP VORTAC thence ...

... via PSP R-124 and TRM R-304 to TRM VORTAC.

All Rwys if not at MEA/MCA at TRM VORTAC, climb in TRM holding pattern (hold E, right turns, 289° inbound) until reaching MEA/MCA for assigned route of flight. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 13L, trees beginning 299' from DER, 530' left of centerline, up to 66' AGL/465' MSL.
HGR 935' from DER, 552' left of centerline, 31' AGL/440' MSL.

Rwy 13R, trees beginning 1170' from DER, 239' right of centerline, up to 100' AGL/599' MSL.
Poles beginning 815' from DER, 209' right of centerline, up to 44' AGL/433' MSL.
Light 843' from DER, 441' right of centerline, 38' AGL/427' MSL.
Antenna 1642' from DER, 26' right of centerline, 53' AGL/442' MSL.

Rwy 31L, poles beginning 1641' from DER, 125' right of centerline, up to 31' AGL/550' MSL.
Towers beginning 2418' from DER, 402' left of centerline, up to 59' AGL/560' MSL.
Tree 3016' from DER, 66' right of centerline, 43' AGL/562' MSL.

Rwy 31R, multiple trees and bushes beginning 305' from DER, 233' right of centerline, up to 48' AGL/507' MSL.
Vent on building 919' from DER, 399' right of centerline, 15' AGL/474' MSL.

PALM SPRINGS INTL (PSP)

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 12NOV15 (15316) (FAA)

Rwy 13L, heading as assigned by ATC; requires minimum climb of 310' per NM to 4800.

Rwy 13R, heading as assigned by ATC; requires minimum climb of 340' per NM to 2700.

Rwy 31L, heading as assigned by ATC; requires minimum climb of 480' per NM to 7000.

Rwy 31R, heading as assigned by ATC; requires minimum climb of 490' per NM to 7000.

PALMDALE, CA

PALMDALE USAF PLANT 42 (PMD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 03JUN10 (10154) (FAA)

TAKEOFF MINIMUMS:

Rwy 22, std. with a min. climb of 300' per NM to 3800 or 1300-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwys 4, 7, climbing left turn intercept PMD VORTAC R-298 to cross FISCH INT at or above MEA/MCA for route of flight, if not at MEA/MCA continue climb in FISCH INT holding pattern (hold Southeast, left turns, 298° inbound) to cross FISCH INT at or above 6500 or MCA for route of flight.

Rwy 22, climbing right turn intercept PMD VORTAC R-298 to cross FISCH INT at or above MEA/MCA for route of flight, if not at MEA/MCA continue climb in FISCH INT holding pattern (hold Southeast, left turns, 298° inbound) to cross FISCH INT at or above 6500 or MCA for route of flight, or for climb in visual conditions cross Palmdale Rgnl/USAF Plant 42 at or above 3700 then via PMD VORTAC R-298 to cross FISCH INT at or above MEA/MCA for route of flight, if not at MEA/MCA continue climb in FISCH INT holding pattern (hold Southeast, left turns, 298° inbound) to cross FISCH INT at or above 6500 or MCA for route of flight.

Rwy 25, climbing right turn intercept PMD VORTAC R-298 to cross FISCH INT at or above MEA/MCA for route, if not at MEA/MCA continue climb in FISCH INT holding pattern (hold Southeast, left turns, 298° inbound) to cross FISCH INT at or above 6500 or MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 25, tree 2395' from DER 986' left of centerline, 100' AGL/2659' MSL.

PASO ROBLES, CA

PASO ROBLES MUNI (PRB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 21MAY20 (20142) (FAA)

DEPARTURE PROCEDURE:

Use PASO ROBLES DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 1, lighting 9' from DER, 115' right of centerline, 804' MSL.
Lighting 10' from DER, 113' left of centerline, 805' MSL.
Tree 301' from DER, 425' left of centerline, 812' MSL.
Rwy 13, pole 34' from DER, 29' left of centerline, 840' MSL.
Trees, pole beginning 766' from DER, 395' left of centerline, up to 900' MSL.
Trees beginning 1656' from DER, 389' left of centerline, up to 906' MSL.
Trees beginning 1746' from DER, 13' left of centerline, up to 910' MSL.
Tree 1948' from DER, 1' right of centerline, 907' MSL.
Trees beginning 2045' from DER, 56' left of centerline, up to 911' MSL.
Trees beginning 2256' from DER, 409' left of centerline, up to 915' MSL.
Tree 2581' from DER, 511' left of centerline, 917' MSL.
Trees beginning 2601' from DER, 635' left of centerline, up to 923' MSL.
Tree 3261' from DER, 856' left of centerline, 932' MSL.
Tree 3860' from DER, 952' left of centerline, 944' MSL.
Tree 3961' from DER, 784' left of centerline, 950' MSL.
Rwy 19, pole 10' from DER, 39' left of centerline, 815' MSL.
Tree 992' from DER, 705' left of centerline, 851' MSL.
Trees beginning 1098' from DER, 618' left of centerline, up to 876' MSL.
Rwy 31, wind indicator 78' from DER, 334' right of centerline, 823' MSL.

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD), CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

27APR17 (17117)

DEPARTURE PROCEDURE:

Rwy 3, diverse departures authorized 220° to 270° CW. Right turns on departure NA. Turn left to assigned heading within 3 DME of NTD TACAN. Do not exceed 300 KIAS until established on assigned heading.
Rwy 9, diverse departures NA.
Rwy 21, diverse departures authorized 140° to 290°.
Rwy 27, diverse departures authorized 140° to 290° CW. Right turns on departure NA. Turn left to assigned heading. Do not exceed 310 KIAS until established on assigned heading.
CAUTION: Mountainous terrain NW thru SE.

TAKEOFF OBSTACLE NOTES:

Rwy 3, trees 2920' from DER, 1197' left of cntrln, 90' MSL.
Terrain 0' from DER, 500' right of cntrln, 14' MSL.
Terrain 0' from DER, 500' left of cntrln, 14' MSL.
Tower 3005' from DER, 1235' left of cntrln, 90' MSL.
Rwy 21, none.
Rwy 27, DASR antenna 960' from DER, 985' right of cntrln, 56' AGL/66' MSL.
Terrain 0' from DER, 500' right of cntrln, 11' MSL.
Pole 1319' from DER, 584' right of cntrln, 44' MSL.

RAMONA, CA

RAMONA (RNM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 25JUL13 (13206) (FAA)

TAKEOFF MINIMUMS:

Rwy 9, std. w/ min. climb of 500' per NM to 4000, or 3800-3 for climb in visual conditions.
Rwy 27, std. w/ min. climb of 332' per NM to 2600, or 3800-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 9, climb via heading 088° to 4000, then climbing left turn via heading 330° and JLI VORTAC R-263/OCN VORTAC R-083 to ROBNN INT before proceeding on course, or for climb in visual conditions, cross Ramona airport at or above 5000 before proceeding on course. When executing VCOA, notify ATC prior to departure.
Rwy 27, climb via heading 268° to 2600, then climbing right turn via PGY VORTAC R-336 to ROBNN INT before proceeding on course, or for climb in visual conditions, cross Ramona airport at or above 5000 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 9, sign 23' from DER, 178' left of centerline, 9' AGL/1399' MSL.
Tree 94' from DER, 343' right of centerline, 20' AGL/1403' MSL.
Trees beginning 2468' from DER, 180' right of centerline, up to 100' AGL/1539' MSL.
Trees beginning 2637' from DER, 305' left of centerline, up to 100' AGL/1487' MSL.
Rwy 27, tree 657' from DER, 12' left of centerline, 100' AGL/1499' MSL.
Trees 1.85 NM from DER, 92' left of centerline, up to 100' AGL/1719' MSL.

REDLANDS, CA

REDLANDS MUNI (REI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 02MAY13 (13122) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, NA.

Rwy 26, 1700-2 or std. with a min. climb of 300' per NM to 4000.

DEPARTURE PROCEDURE: Climbing left turn direct PDZ VORTAC. Aircraft departing PDZ VORTAC R-091 CW R-140 and R-231 CW R-280 climb on course. All others continue in PDZ VORTAC holding pattern (hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above, R-281 CW R-090, 7700; R-141 CW R-230, 4900.

TAKEOFF OBSTACLE NOTES:

Rwy 26, trees beginning 17' from DER, 82' left of centerline, up to 34' AGL/1506' MSL.

RIVERSIDE, CA

RIVERSIDE MUNI (RAL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 11 30JAN20 (20030) (FAA)

TAKEOFF MINIMUMS:

Rwy 16, NA-terrain.

DEPARTURE PROCEDURE:

Rwys 9, 27, 34, use RIVERSIDE departure.

TAKEOFF OBSTACLE NOTES:

Rwy 9, terrain 4' from DER, 497' left of centerline, 836' MSL.
Fence, tree, terrain beginning 77' from DER, 496' left of centerline, up to 843' MSL.
Tree 604' from DER, 590' right of centerline, 856' MSL.
Trees beginning 989' from DER, 594' right of centerline, up to 867' MSL.
Rwy 27, tree 600' from DER, 548' right of centerline, 786' MSL.
Pole 609' from DER, 484' left of centerline, 783' MSL.
Pole 758' from DER, 680' right of centerline, 790' MSL.
Tree 1073' from DER, 650' left of centerline, 803' MSL.
Rwy 34, building 29' from DER, 306' right of centerline, 800' MSL.
Poles, trees beginning 62' from DER, 200' right of centerline, up to 811' MSL.
Building 62' from DER, 350' left of centerline, 796' MSL.
Pole 300' from DER, 287' left of centerline, 799' MSL.
Tree 543' from DER, 291' left of centerline, 814' MSL.
Tree 829' from DER, 557' right of centerline, 854' MSL.
Building 1214' from DER, 376' left of centerline, 832' MSL.
Transmission line, pole beginning 1914' from DER, 134' left of centerline, up to 834' MSL.
Building 1.7 NM from DER, 1237' right of centerline, 1369' MSL.

RIVERSIDE/RUBIDOUX, CA

FLABOB (RIR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 30JUN11 (11181) (FAA)

TAKEOFF MINIMUMS:

Rwy 6, std. w/min. climb of 670' per NM to 4000 or 400-2 w/min. climb of 480' per NM to 4000 or 2100-3 for climb in visual conditions.

Rwy 24, std. w/min. climb of 630' per NM to 3000 or 800-2¾ w/min. climb of 305' per NM to 4600 or 2100-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 6, climb via heading 064° to 4000 then right turn direct PDZ VORTAC, or for climb in visual conditions cross Flabob Airport Southwest bound at or above 2700 then via PDZ R-039 to PDZ VORTAC.

Rwy 24, climb via heading 244° and PDZ R-031 to PDZ VORTAC, or for climb in visual conditions cross Flabob airport Southwest bound at or above 2700 then via PDZ R-039 to PDZ VORTAC.

All aircraft climb in PDZ VORTAC holding pattern (hold East, right turns, 258° inbound) to cross PDZ VORTAC at or above MEA for direction of flight before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 6, trees beginning 3763' from DER, 1152' right of centerline, up to 40' AGL/1119' MSL.
Rwy 24, antenna on tank 6193' from DER, 2057' right of centerline, 38' AGL/1237' MSL.
Trees beginning 2494' from DER, 434' right of centerline, up to 40' AGL/1519' MSL.
Pole 6261' from DER, 1950' right of centerline, 30' AGL/1230' MSL.
Building 1.52 NM from DER, 1154' right of centerline, up to 29' AGL/1369' MSL.
Antenna on tank 1.26 NM from DER, 2047' right of centerline, 54' AGL/1254' MSL.
Tank 4043' from DER, 794' right of centerline, 66' AGL/961' MSL.
Tree 1.79 NM from DER, 434' right of centerline, 58' AGL/1138' MSL.

SAN BERNARDINO, CA

SAN BERNARDINO INTL (SBD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09DEC93 (93343) (FAA)

TAKEOFF MINIMUMS:

Rwy 6, CAT A, B 2100-2 or std. with a min. climb of 340' per NM to 3700. CAT C, D 3100-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE:

Rwy 6, climbing right turn.

Rwy 24, climbing left turn.

All aircraft climb direct PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CW R-280 climb on course. All others continue climb in PDZ holding pattern (Hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CW R-090, 7700; R-141 CW R-230, 4900.

SAN CLEMENTE ISLAND NALF (FREDERICK SHERMAN FLD) (KNUC)

SAN CLEMENTE ISLAND, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

25APR19 (19115)

DEPARTURE PROCEDURE:

Rwy 6, diverse departures authorized 235° to 092° CW.

Rwy 24, diverse departures authorized 162° to 055° CW.

TAKEOFF OBSTACLE NOTES:

Rwy 6, terrain 958' from DER, 613' right of cntrln, 199' MSL.

SAN DIEGO, CA

BROWN FIELD MUNI (SDM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 03JUN10 (10154) (FAA)

TAKEOFF MINIMUMS:

Rwy 8L, std. w/ min. climb of 570' per NM to 3100.

Rwys 8R,26L, NA - ATC.

DEPARTURE PROCEDURE:

Rwy 8L, climbing left turn, thence...

Rwy 26R, climbing right turn, thence...

...via heading 280° to intercept MZB R-160 to MZB VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 26R, tree 1284' from DER, 778' left of centerline, 52' AGL/561' MSL.

MONTGOMERY-GIBBS EXECUTIVE (MYF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 08NOV18 (18312)

TAKEOFF MINIMUMS:

Rwy 5, NA - environmental.

DEPARTURE PROCEDURE:

Rwys 10L/R, climbing right turn.

Rwys 28L/R, climbing left turn.

All aircraft, climb direct to MZB VORTAC. Aircraft departing MZB VORTAC R-090 CW R-360 climb on course. All others climb in MZB holding pattern (hold west, right turns, 075° inbound) to cross MZB VORTAC at or above 2300.

TAKEOFF OBSTACLE NOTES:

Rwy 23, trees beginning 958' from DER, 549' left of centerline, up to 456' MSL.
Tree 1070' from DER, 719' left of centerline, 458' MSL.
Tree 1093' from DER, 558' right of centerline, 62' AGL/468' MSL.
Tree 1152' from DER, 532' left of centerline, 459' MSL.
Trees beginning 1165' from DER, 531' left of centerline, up to 473' MSL.
Trees beginning 1255' from DER, 125' right of centerline, up to 472' MSL.
Trees, vehicles on road beginning 1560' from DER, 79' right of centerline, up to 81' AGL/483' MSL.
Tree 1824' from DER, 189' left of centerline, 87' AGL/485' MSL.
Tree, pole beginning 1854' from DER, 131' right of centerline, up to 86' AGL/485' MSL.
Trees beginning 1954' from DER, 22' right of centerline, up to 95' AGL/489' MSL.
Trees, antenna beginning 1955' from DER, 333' left of centerline, up to 493' MSL.
Tree 2400' from DER, 867' left of centerline, 500' MSL.
Transmission lines, trees beginning 2618' from DER, 414' left of centerline, up to 102' AGL/529' MSL.
Tree 2703' from DER, 831' right of centerline, 491' MSL.
Trees beginning 2732' from DER, 321' right of centerline, up to 74' AGL/495' MSL.
Transmission lines, poles, tree beginning 2786' from DER, 17' right of centerline, up to 106' AGL/535' MSL.
Transmission line, trees beginning 2996' from DER, 15' right of centerline, up to 114' AGL/548' MSL.
Rwy 10L, vegetation 48' from DER, 495' right of centerline, 430' MSL.
Vegetation beginning 68' from DER, 76' left of centerline, up to 7' AGL/434' MSL.
Trees beginning 209' from DER, 493' left of centerline, up to 8' AGL/439' MSL.
Tree 826' from DER, 680' left of centerline, 478' MSL.
Trees beginning 832' from DER, 632' right of centerline, up to 45' AGL/466' MSL.
Trees beginning 951' from DER, 671' left of centerline, up to 479' MSL.
CON'T

SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CA (CON'T)

MONTGOMERY-GIBBS EXECUTIVE (MYF) (CON'T)

Rwy 10L (CON'T), trees beginning 1063' from DER, 578' right of centerline, up to 55' AGL/472' MSL.
Trees beginning 1149' from DER, 492' right of centerline, up to 77' AGL/493' MSL.
Trees beginning 1610' from DER, 677' left of centerline, up to 69' AGL/498' MSL.
Trees beginning 1728' from DER, 664' left of centerline, up to 501' MSL.
Rwy 10R, lighting 39' from DER, 69' left of centerline, 3' AGL/423' MSL.
Electrical system 40' from DER, 65' left of centerline, 6' AGL/426' MSL.
Building, tree beginning 233' from DER, 106' right of centerline, up to 441' MSL.
Tree, vegetation beginning 284' from DER, 230' left of centerline, up to 433' MSL.
Tree 1039' from DER, 719' right of centerline, 462' MSL.
Tree 1135' from DER, 670' right of centerline, 465' MSL.
Tree 1183' from DER, 805' right of centerline, 476' MSL.
Trees beginning 1247' from DER, 582' right of centerline, up to 479' MSL.
Trees beginning 1536' from DER, 342' right of centerline, up to 482' MSL.
Trees beginning 1925' from DER, 86' right of centerline, up to 88' AGL/497' MSL.
Trees beginning 2808' from DER, 1185' left of centerline, up to 69' AGL/498' MSL.
Rwy 28L, sign, vegetation beginning 11' from DER, 247' right of centerline, up to 2' AGL/415' MSL.
Sign beginning 12' from DER, 125' left of centerline, up to 2' AGL/418' MSL.
Vehicles on helicopter ramp 523' from DER, 523' left of centerline, up to 429' MSL.
Antenna 788' from DER, 570' left of centerline, 450' MSL.
Trees, sign beginning 903' from DER, 8' left of centerline, up to 461' MSL.
Trees, pole beginning 954' from DER, 263' right of centerline, up to 53' AGL/460' MSL.
Trees, building beginning 1265' from DER, 135' right of centerline, up to 59' AGL/470' MSL.
Tree 1349' from DER, 546' left of centerline, 464' MSL.
Tree 1405' from DER, 496' right of centerline, 62' AGL/473' MSL.
Tree 1513' from DER, 541' left of centerline, 467' MSL.
Trees, tower beginning 1676' from DER, 224' right of centerline, up to 474' MSL.
Tree 2034' from DER, 236' right of centerline, 67' AGL/475' MSL.
Trees beginning 2092' from DER, 174' right of centerline, up to 68' AGL/477' MSL.
Rwy 28R, sign 11' from DER, 251' left of centerline, 2' AGL/415' MSL.
Pole 594' from DER, 615' right of centerline, 449' MSL.
Pole, sign beginning 735' from DER, 323' right of centerline, up to 450' MSL.
Trees, poles beginning 862' from DER, 253' right of centerline, up to 469' MSL.
Trees beginning 988' from DER, 215' left of centerline, up to 33' AGL/444' MSL.
Tree 1006' from DER, 507' left of centerline, 451' MSL.
Poles, trees beginning 1206' from DER, 17' right of centerline, up to 64' AGL/475' MSL.
Trees beginning 1278' from DER, 12' left of centerline, up to 56' AGL/467' MSL.
Sign, tree, building beginning 1303' from DER, 26' right of centerline, up to 62' AGL/483' MSL.
Sign, trees beginning 1324' from DER, 12' right of centerline, up to 68' AGL/488' MSL.
Trees, tower beginning 1406' from DER, 2' left of centerline, up to 62' AGL/473' MSL.
Trees, pole beginning 1487' from DER, 319' right of centerline, up to 71' AGL/493' MSL.
Tree 2034' from DER, 263' left of centerline, 67' AGL/475' MSL.
Trees beginning 2092' from DER, 290' left of centerline, up to 68' AGL/477' MSL.

SAN DIEGO INTL (SAN)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 9 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:
Rwy 9, 400-1¾ w/min. climb of 290' per NM to 900.
Rwy 27, 400-2½ or std. w/min. climb of 353' per NM to 500.

DEPARTURE PROCEDURE:
Rwy 9, climb heading 095° to 900, then climbing left turn direct MZB VORTAC. Thence ...
Rwy 27, climb heading 275° to 900, then climbing right turn direct MZB VORTAC. Thence ...
...Aircraft departing MZB VORTAC R-180 CW R-360 climb on course. All others climb in MZB VORTAC holding pattern (hold West, right turn, 075° inbound) to cross MZB VORTAC at or above 2300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 9, fence, terrain, beginning 14' from DER, 67' left of centerline, up to 14' AGL/35' MSL.
Pole, building, terrain, fence, beginning 21' from DER, 8' right of centerline, up to 35' AGL/50' MSL.
Sign, terrain, beginning 268' from DER, 137' left of centerline, up to 50' AGL/77' MSL.
Tree, building, beginning 781' from DER, 265' right of centerline, up to 91' MSL.
Building, terrain, beginning 877' from DER, 180' left of centerline, up to 66' AGL/106' MSL.
Building 1385' from DER, 356' right of centerline, 55' AGL/95' MSL.
Electric sys, terrain, beginning 1395' from DER, 319' left of centerline, up to 44' AGL/138' MSL.
Tree, terrain, beginning 1822' from DER, 561' left of centerline, up to 196' MSL.
Tree 1857' from DER, 45' right of centerline, 45' AGL/144' MSL.
Tree, terrain, building, beginning 2140' from DER, 119' left of centerline, up to 198' MSL.
Building, terrain, beginning 2596' from DER, 101' right of centerline, up to 89' AGL/158' MSL.
Trees, terrain, beginning 2681' from DER, 190' left of centerline, up to 215' MSL.
T-l tower, terrain, building, pole, tree, beginning 2948' from DER, 40' left of centerline, up to 67' AGL/272' MSL.
Tree, terrain, building, beginning 2965' from DER, 30' right of centerline, up to 211' MSL.
Building, terrain, beginning 3857' from DER, 39' right of centerline, up to 44' AGL/216' MSL.
Building 4376' from DER, 1295' left of centerline, 117' AGL/364' MSL.
CON'T

SAN DIEGO, CA (CON'T)

SAN DIEGO INTL (SAN) (CON'T)

Rwy 9 (CON'T), building, terrain, beginning 4410' from DER, 322' left of centerline, up to 128' AGL/389' MSL.
Building, beginning 4433' from DER, 1207' right of centerline, up to 165' AGL/296' MSL.
Ant on ol building 4460' from DER, 1482' left of centerline, 403' MSL.
Terrain, Building, tree, pole, beginning 4510' from DER, 213' left of centerline, up to 132' MSL.
Tree, building, beginning 5159' from DER, 325' right of centerline, up to 113' AGL/301' MSL.
Building 6023' from DER, 1934' right of centerline, 224' AGL/370' MSL.
Building 1 NM from DER, 1543' right of centerline, 234' AGL/372' MSL.
Building, tree, beginning 1 NM from DER, 21' right of centerline, up to 287' AGL/401' MSL.
Monument 1.3 NM from DER, 1339' left of centerline, 53' AGL/310' MSL.
Pole 1.3 NM from DER, 1721' left of centerline, 35' AGL/306' MSL.
Stack, tree, beginning 1.4 NM from DER, 501' left of centerline, up to 170' AGL/374' MSL.
Tree 1.9 NM from DER, 490' left of centerline, 330' MSL.
Rwy 27, pole 192' from DER, 347' right of centerline, 17' AGL/29' MSL.
NAVAID 284' from DER, 317' left of centerline, 19' AGL/28' MSL.
Tree 754' from DER, 156' right of centerline, 24' AGL/34' MSL.
Tree 1021' from DER, 620' right of centerline, 71' MSL.
Pole 2515' from DER, 707' left of centerline, 103' AGL/118' MSL.
Tree 2594' from DER, 353' right of centerline, 90' AGL/107' MSL.
Tree 3179' from DER, 410' right of centerline, 111' MSL.
Tree 3494' from DER, 947' right of centerline, 169' MSL.
Tower 3675' from DER, 14' right of centerline, 60' AGL/115' MSL.
Tree 4248' from DER, 403' left of centerline, 75' AGL/150' MSL.
Tree 4441' from DER, 1199' right of centerline, 111' AGL/199' MSL.
Trees, beginning 5046' from DER, 7' left of centerline, up to 96' AGL/235' MSL.
Tree, building, beginning 5693' from DER, 272' right of centerline, up to 227' MSL.
Tree 6050' from DER, 1703' left of centerline, 256' MSL.
Trees, beginning 1 NM from DER, 532' left of centerline, up to 65' AGL/261' MSL.
Building lt, tree, beginning 1 NM from DER, 257' right of centerline, up to 40' AGL/238' MSL.
Tree 1.9 NM from DER, 3367' left of centerline, 65' AGL/328' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 20AUG15 (15232) (FAA)
Rwy 27, headings as assigned by ATC; requires minimum climb of 360' per NM to 800.

SAN DIEGO/EL CAJON, CA

GILLESPIE FIELD (SEE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 07DEC17 (17341) (FAA)
DEPARTURE PROCEDURE:
Use MISSION BAY departure.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 16OCT14 (14289) (FAA)
Rwy 27L, heading as assigned by ATC; requires minimum climb of 320' per NM to 1200.
Rwy 27R, heading as assigned by ATC; requires minimum climb of 420' per NM to 1200.
Rwy 35, heading as assigned by ATC; requires minimum climb of 400' per NM to 1600.

SAN LUIS OBISPO, CA

SAN LUIS COUNTY RGNL(SBP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 7 08NOV18 (18312) (FAA)
TAKEOFF MINIMUMS:
Rwys 7, 25, NA - obstacles.
Rwy 11, std. w/min. climb of 243' per NM to 2100 or 1500-3 for VCOA.
Rwy 29, std. w/min. climb of 460' per NM to 2000 or 1500-3 for VCOA.
DEPARTURE PROCEDURE:
Rwy 11, climb heading 110° to 700, then climbing right turn to intercept MQO VORTAC R-115 to MQO VORTAC and hold, continue climb in MQO holding pattern (hold southeast, left turns, 306° inbound) to cross MQO VORTAC at or above 4000 or MEA for route of flight.
Rwy 29, climb heading 290° to intercept MQO VORTAC R-082 to MQO VORTAC and hold, continue climb in MQO holding pattern (hold southeast, left turns, 306° inbound) to cross MQO VORTAC at or above 4000 or MEA for route of flight.
VCOA:
Rwys 11, 29, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross San Luis County Rgnl at or above 2100 before proceeding direct MQO VORTAC.
TAKEOFF OBSTACLE NOTES:
Rwy 11, fence 14' from DER, 492' left of centerline, 6' AGL/214' MSL.
Tree 295' from DER, 565' left of centerline, 27' AGL/235' MSL.
Vehicle on road 398' from DER, 389' right of centerline, 223' MSL.
Trees beginning 498' from DER, 383' left of centerline, up to 34' AGL/240' MSL.
CON'T

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN LUIS OBISPO, CA (CON'T)

SAN LUIS COUNTY RGNL(SBP) (CON'T)

Rwy 11 (CON'T), vehicle on road 591' from DER, 396' right of centerline, 231' MSL.
Vehicle on road 600' from DER, 507' right of centerline, 240' MSL.
Vehicle on road, building beginning 621' from DER, 269' right of centerline, up to 247' MSL.
Trees, terrain beginning 994' from DER, 596' right of centerline, up to 262' MSL.
Tree 1061' from DER, 751' right of centerline, 54' AGL/311' MSL.
Tree 1072' from DER, 80' left of centerline, 26' AGL/242' MSL.
Lighting 1090' from DER, 22' left of centerline, 34' AGL/252' MSL.
Pole, lighting, beginning 1101' from DER, on centerline, up to 253' MSL.
Trees, poles, lighting, terrain, buildings, vehicle on road beginning 1107' from DER, 2' right of centerline, up to 316' MSL.
Terrain 1696' from DER, 96' left of centerline, 256' MSL.
Vehicle on road 1795' from DER, 488' left of centerline, 258' MSL.
Terrain 1798' from DER, 99' left of centerline, 259' MSL.
Terrain beginning 1883' from DER, 14' left of centerline, up to 261' MSL.
Vehicle on road 1980' from DER, 561' left of centerline, 264' MSL.
Trees, terrain beginning 1989' from DER, 3' left of centerline, up to 284' MSL.
Trees, terrain, buildings, poles, vehicle on road beginning 2099' from DER, 3' left of centerline, up to 290' MSL.
Buildings, vehicle on road beginning 2245' from DER, 592' left of centerline, up to 30' AGL/291' MSL.
Buildings, vehicle on road beginning 2267' from DER, 198' left of centerline, up to 31' AGL/293' MSL.
Buildings, vehicle on road beginning 2400' from DER, 54' left of centerline, up to 44' AGL/294' MSL.
Rwy 29, trees beginning 69' from DER, 463' right of centerline, up to 26' AGL/176' MSL.
Trees beginning 134' from DER, 11' right of centerline, up to 50' AGL/218' MSL.
Trees 197' from DER, 379' left of centerline, 50' AGL/205' MSL.
Trees beginning 370' from DER, 22' left of centerline, up to 50' AGL/208' MSL.
Terrain 2 NM from DER, 2497' right of centerline, 507' MSL.
Terrain beginning 2 NM from DER, 2498' right of centerline, up to 514' MSL.
Trees 2.1 NM from DER, 2879' right of centerline, 50' AGL/526' MSL.
Trees 2.1 NM from DER, 2488' right of centerline, 50' AGL/533' MSL.
Terrain 2.1 NM from DER, 2713' right of centerline, 557' MSL.
Trees, fence beginning 2.1 NM from DER, 2347' right of centerline, up to 50' AGL/618' MSL.

SAN NICOLAS ISLAND NOLF (KNSI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 03JAN19 (19003)

DEPARTURE PROCEDURE:
Rwy 30, diverse departures authorized 301° to 121° CW.

TAKEOFF OBSTACLE NOTES:
Rwy 12, terrain 0' from DER, 500' right of cntrln, 515' MSL.
Rwy 30, localizer antenna 51' from DER, 3' right of cntrln, 8' AGL/491' MSL.

SANTA ANA, CA

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 18SEP14 (14261) (FAA)

DEPARTURE PROCEDURE:
Rwys 2L, 2R, climbing left turn direct SLI VORTAC.
Rwys 20L, 20R, climbing right turn direct SLI VORTAC.
All aircraft climb in SLI holding pattern (hold S, left turns, 351° inbound) to cross SLI VORTAC at or above MEA for direction of flight before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 2L, pole and trees beginning 94' from DER, 490' left of centerline, up to 26' AGL/63' MSL.
Navaid 497' from DER, 625' right of centerline, 19' AGL/55' MSL.
Trees beginning 970' from DER, 608' left of centerline, up to 90' AGL/127' MSL.
Rwy 2R, navaid 497' from DER, 125' right of centerline, 19' AGL/55' MSL.
Pole 1104' from DER, 307' right of centerline, 33' AGL/68' MSL.
Building 1681' from DER, 671' right of centerline, 49' AGL/87' MSL.
Tree 1745' from DER, 309' right of centerline, 52' AGL/85' MSL.
Rwy 20R, pole and trees beginning 204' from DER, 490' right of centerline, up to 38' AGL/91' MSL.
Wsk on hangar 536' from DER, 605' left of centerline, 40' AGL/92' MSL.
Poles and trees beginning 808' from DER, 489' right of centerline, up to 58' AGL/108' MSL.
Tree 1574' from DER, 765' left of centerline, 60' AGL/113' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 16OCT14 (14289) (FAA)

Rwys 2L, 2R, headings as assigned by ATC.
Rwy 20L, headings as assigned by ATC; requires minimum climb of 260' per NM to 1300.
Rwy 20R, headings as assigned by ATC; requires minimum climb of 270' per NM to 1300.

SANTA BARBARA, CA

SANTA BARBARA MUNI (SBA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8A 29MAR18 (18088) (FAA)

TAKEOFF MINIMUMS:

Rwys 33L, 33R: NA- ATC.

Rwy 7, std. w/ min. climb of 260' per NM to 1100, or 2800-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 7, climbing right turn heading 170°, thence . . .

Rwy 25, climbing left turn heading 155°, thence . . .

Rwys 15L, 15R, climb heading 152°, thence . . .

...on RZS R-185 to GOLET INT, Climb in GOLET INT holding pattern (SE, right turns, 307° inbound), to cross GOLET INT at or above MEA/MCA for route of flight, before proceeding on course.

VCOA:

Rwy 7, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Santa Barbara Muni airport southbound at or above 2700, thence . . .

...on RZS R-185 to GOLET INT, Climb in GOLET INT holding pattern (SE, right turns, 307° inbound), to cross GOLET INT at or above MEA/MCA for route of flight, before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 7, vehicles on parking lot 88' from DER, 516' right of centerline, 25' MSL.
Pole 208' from DER, 243' left of centerline, 25' AGL/36' MSL.
Vehicles on parking lot beginning 255' from DER, 518' right of centerline, up to 26' MSL.
Poles and a tree beginning 715' from DER, 579' right of centerline, up to 47' MSL.
Trees beginning 1099' from DER, 631' left of centerline, up to 45' MSL.
Tree, building, tank, and a pole beginning 1225' from DER, 566' left of centerline, up to 52' MSL.
Poles beginning 1229' from DER, 569' right of centerline, up to 53' MSL.
Tree 1474' from DER, 752' right of centerline, 57' MSL.
Trees beginning 1606' from DER, 472' left of centerline, up to 57' MSL.
Trees beginning 1671' from DER, 365' right of centerline, up to 75' MSL.
Trees beginning 1686' from DER, 234' left of centerline, up to 65' MSL.
Tree 2628' from DER, 421' right of centerline, 79' MSL.
Trees beginning 2829' from DER, 594' left of centerline, up to 103' MSL.
Tree 2918' from DER, 152' right of centerline, 78' AGL/91' MSL.
Tree 3525' from DER, 838' left of centerline, 111' MSL.
Tree 4902' from DER, 1793' left of centerline, 145' MSL.
Rwy 15L, bushes beginning 19' from DER, 18' right of centerline, up to 6' AGL/17' MSL.
Bushes and a sign beginning 26' from DER, 82' left of centerline, up to 17' MSL.
Buildings beginning 38' from DER, 446' left of centerline, up to 25' MSL.
Trees, vehicles on parking lots, a fence, and vehicle on road beginning 146' from DER, 345' left of centerline, up to 18' AGL/29' MSL.
Vehicle on road beginning 905' from DER, 640' left of centerline, up to 44' MSL.
Poles and trees beginning 989' from DER, 146' left of centerline, up to 54' MSL.
Sign, overpass, pole, trees, and vehicle on road beginning 1280' from DER, 345' right of centerline, up to 94' MSL.
Rwy 15R, bushes beginning 18' from DER, 33' right of centerline, up to 8' AGL/15' MSL.
Bushes and a sign beginning 25' from DER, 240' left of centerline, up to 6' AGL/17' MSL.
Bush 993' from DER, 758' right of centerline, 61' MSL.
Trees, fence, pole, sign, building, overpass, and vehicle on road beginning 1099' from DER, 26' right of centerline, up to 91' AGL/145' MSL.
Trees beginning 1355' from DER, 16' left of centerline, up to 25' AGL/55' MSL.
Trees and a bush beginning 1676' from DER, 728' right of centerline, up to 97' AGL/147' MSL.
Rwy 25, NAVAID 2' from DER, 253' left of centerline, 13' MSL.
Tree 13' from DER, 486' left of centerline, 12' AGL/21' MSL.
Vehicle on road, 489' from DER, 593' right of centerline, 27' MSL.
Trees beginning 1612' from DER, 799' left of centerline, up to 65' MSL.
Trees beginning 2299' from DER, 312' left of centerline, up to 61' AGL/88' MSL.
Tree and a pole beginning 2487' from DER, 128' right of centerline, up to 100' MSL.
Trees beginning 3141' from DER, 183' right of centerline, up to 110' MSL.
Tree 3979' from DER, 1144' right of centerline, 117' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 26MAY16 (16147) (FAA)

Rwy 7, heading as assigned by ATC; requires minimum climb of 270' per NM to 1100.

Rwy 15L/R, heading as assigned by ATC.

Rwy 25, heading as assigned by ATC; requires minimum climb of 500' per NM to 4600.

SANTA MARIA, CA

SANTA MARIA PUB/CAPT G ALLAN HANCOCK FLD (SMX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 03MAY12 (12124) (FAA)

TAKEOFF MINIMUMS:

Rwy 20, NA-obstacles.

Rwy 12, 400-2¼ w/min. climb of 287' per NM to 1500 or std. w/min. climb of 388' per NM to 1200.

DEPARTURE PROCEDURE:

Rwy 2, climbing left turn;

Rwy 12, climbing left turn (do not exceed 230 KIAS until established northwest bound to GLJ VOR).

Rwy 30, climb heading 294°.

All aircraft: climb direct GLJ VOR, then continue climb to airway MEA via GLJ R-300 to intercept MQO R-137 to MQO VORTAC. Cross MQO VORTAC at or above MEA/MCA for assigned route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 2, trees beginning 541' from DER, 153' right of centerline, up to 108' AGL/332' MSL.
Tree 1018' from DER, 246' left of centerline, 34' AGL/254' MSL.

Rwy 12, trees beginning 988' from DER, 271' right of centerline, up to 83' AGL/402' MSL.
Trees beginning 54' from DER, 277' left of centerline, up to 84' AGL/409' MSL.

SANTA MONICA, CA

SANTA MONICA MUNI (SMO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 02MAR17 (17061) (FAA)

TAKEOFF MINIMUMS:

Use TOPANGA DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 01FEB18 (18032) (FAA)

Rwy 3, heading as assigned by ATC; requires min. climb of 320' per NM to 1100.

Rwy 21, heading as assigned by ATC; requires min. climb of 350' per NM to 3900.

SANTA YNEZ, CA

SANTA YNEZ (IZA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 04FEB16 (16035) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, 500-2¼ w/min. climb of 251' per NM to 1700 or std. w/min. climb of 317' per NM to 1300.

Rwy 26, 300-2 or std. w/min. climb of 226' per NM to 1100.

DEPARTURE PROCEDURE:

Rwy 8, climbing left turn heading 260° to 6000, intercept GVO VORTAC R-307 to ORCUT INT/MQO 30.00 DME. Do not exceed 150 KIAS until established on GVO VORTAC R-307.

Rwy 26, climb heading 264° to 6000, intercept GVO VORTAC R-307 to ORCUT INT/MQO 30.00 DME.

TAKEOFF OBSTACLE NOTES:

Rwy 8, sign 23' from DER, 81' left of centerline, 28' AGL/675' MSL.
Building 384' from DER, 240' left of centerline, 7' AGL/684' MSL.
Tree 973' from DER, 592' right of centerline, 57' AGL/704' MSL.

Rwy 26, buildings and hangars beginning 9' from DER, 330' right of centerline, up to 27' AGL/693' MSL.
Tree 299' from DER, 415 right of centerline, 24' AGL/664' MSL.
Fence 315' from DER, 407' left of centerline, 2' AGL/666' MSL.
Building 353' from DER, 277' right of centerline, 20' AGL/684' MSL.
Trees 391' from DER, 233' left of centerline, 56' AGL/696' MSL.
Trees 435' from DER, 305' right of centerline, up to 58' AGL/698' MSL.
Fence 749' from DER, 273' right of centerline, 7' AGL/678' MSL.
Tree 859' from DER, 427' right of centerline, 54' AGL/688' MSL.
Tree 1271' from DER, 296' left of centerline, 47' AGL/687' MSL.

SHAFTER, CA

SHAFTER-MINTER FIELD (MIT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 02MAY13 (13122) (FAA)

DEPARTURE PROCEDURE:

Rwys 12, 17, 26, climbing right turn heading 300° to 4000. Thence ...

Rwys 8, 30, 35, climbing left turn heading 240° to 4000. Thence ...

Westbound aircraft intercept V248 until reaching 4000, then proceed on course. Eastbound aircraft intercept V248 upon reaching 4000 turn right direct EHF VORTAC, then proceed on course.

TAKEOFF OBSTACLE NOTES:

Rwy 8, vehicles on road beginning 41' from DER, 7' left of centerline, up to 15' AGL/442' MSL.

Rwy 12, windsock 504' from DER, 397' left of centerline, 26' AGL/439' MSL.
Trees beginning 2476' from DER, 344' left of centerline, up to 75' AGL/488' MSL.
Trees beginning 862' from DER, 378' right of centerline, up to 31' AGL/441' MSL.

CON'T

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SHAFTER, CA (CON'T)

SHAFTER-MINTER FIELD (MIT) (CON'T)

Rwy 17, vehicles on road 489' from DER, left and right of centerline,15' AGL/429' MSL.
Tree 1150' from DER, 724' left of centerline, 51' AGL/463' MSL.
Windsock 1340' from DER, 43' right of centerline, 46' AGL/455' MSL.
Rwy 30, vehicles on road 146' from DER, 273' left of centerline, 10' AGL/420' MSL.
Rwy 35, vehicles on road 461' from DER, 86' right of centerline to 386' right of centerline, 15' AGL/442' MSL.

TORRANCE, CA

ZAMPERINI FIELD (TOA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 29JUL10 (10210) (FAA)

TAKEOFF MINIMUMS:
Rwy 11L, 400-2 or std. w/min. climb of 325' per NM to 600.
Rwy 11R, 400-2½ or std. w/min. climb of 325' per NM to 600.
DEPARTURE PROCEDURE:
Rwys 29L, 29R, climb runway heading.
Rwys 11L, 11R, climbing left turn to heading 290°.
Both departures climb to 3000, intercept LAX R-170 to LIMBO Int.

TUSI AHP (KHGT)

HUNTER LIGGETT, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 25SEP08 (08269)

Helicopter use only. Climb on a heading between 010° CW to 190° from heliport (or a minimum climb rate of 530' per NM to 7800 for all other courses).

TWENTYNINE PALMS, CA

TWENTYNINE PALMS (TNP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05OCT00 (00279) (FAA)

TAKEOFF MINIMUMS:
Rwy 17, NA.
Rwys 8, 26, 35, std. with a min. climb of 280' per NM to 5500.
DEPARTURE PROCEDURE:
Rwys 8, 26, 35, turn right direct TNP VORTAC. Eastbound on V264 continue climb on course. All others climb in TNP holding pattern (E, left turns, 255° inbound) to cross TNP VORTAC at or above 6000 before proceeding on course. Northeast bound on V514-538 cross TNP VORTAC at or above 7900.

UPLAND, CA

CABLE (CCB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 19JUL18 (18200) (FAA)

TAKEOFF MINIMUMS:
Rwy 6, 300-1⅞ or std. w/min. climb of 332' per NM to 1900.
DEPARTURE PROCEDURE:
Rwy 6, climbing right turn.
Rwy 24, climbing left turn.
All aircraft climb direct PDZ VORTAC and hold (east, right turns, 258°, inbound), continue climb-in-hold to MEA for route of flight.
TAKEOFF OBSTACLE NOTES:
Rwy 6, pole, sign beginning 21' from DER, 99' right of centerline, up to 40' AGL/1464' MSL.
Sign 31' from DER, 100' left of centerline, 7' AGL/1451' MSL.
Pole, traverse way, tree, building beginning 87' from DER, 7' right of centerline, up to 41' AGL/1472' MSL.
Traverse way, fence beginning 94' from DER, 82' left of centerline, up to 1461' MSL.
Building, pole, traverse way, fence beginning 106' from DER, 100' left of centerline, up to 40' AGL/1495' MSL.
Tree, building, traverse way beginning 260' from DER, 6' right of centerline, up to 1484' MSL.
Pole 351' from DER, 410' left of centerline, 40' AGL/1498' MSL.
Pole, vertical point, building, fence, traverse way, vegetation, tree beginning 411' from DER, 193' left of centerline, up to 36' AGL/1499' MSL.
Pole, building, fence, tree, general utility, traverse way beginning 628' from DER, 34' left of centerline, up to 32' AGL/1500' MSL.
Pole, tree, general utility, tower, building beginning 961' from DER, 180' left of centerline, up to 57' AGL/1532' MSL.
Pole, building beginning 1228' from DER, 541' left of centerline, up to 76' AGL/1545' MSL.
Trees beginning 1271' from DER, 80' right of centerline, up to 1498' MSL.
Pole, building, traverse way, tree beginning 1289' from DER, 29' left of centerline, up to 75' AGL/1548' MSL.
Trees beginning 1860' from DER, 16' right of centerline, up to 1506' MSL.
Tree, building, traverse way beginning 933' from DER, 25' left of centerline, up to 1555' MSL.
Tree, building beginning 2152' from DER, 67' left of centerline, up to 1565' MSL.
Tree, building, pole beginning 2241' from DER, 58' left of centerline, up to 1573' MSL.
Trees beginning 2485' from DER, 104' right of centerline, up to 1511' MSL.
CON'T

UPLAND, CA (CON'T)

CABLE (CCB) (CON'T)

Rwy 6 (CON'T), trees beginning 2787' from DER, 0' right of centerline, up to 1524' MSL.
Tree, building, pole beginning 3512' from DER, 0' left of centerline, up to 1575' MSL.
Tree, pole, building, traverse way beginning 3782' from DER, 384' left of centerline, up to 1593' MSL.
Tree, building, pole, traverse way beginning 4075' from DER, 668' left of centerline, up to 1610' MSL.
Tree, building, traverse way, pole beginning 4235' from DER, 596' left of centerline, up to 1619' MSL.
Tree, pole beginning 5480' from DER, 949' left of centerline, up to 1620' MSL.
Tree 1 NM from DER, 1434' left of centerline, 1632' MSL.
Rwy 24, traverse way, tree beginning 15' from DER, 60' right of centerline, up to 1408' MSL.
Sign beginning 24' from DER, 97' left of centerline, up to 13' AGL/1396' MSL.
Traverse way, tree beginning 313' from DER, 383' right of centerline, up to 1412' MSL.
Tree 699' from DER, 682' right of centerline, 1416' MSL.
Pole 1296' from DER, 747' right of centerline, 47' AGL/1427' MSL.
Pole 1357' from DER, 583' right of centerline, 62' AGL/1436' MSL.

VAN NUYS, CA

VAN NUYS (VNY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 21JUL16 (16203) (FAA)

TAKEOFF MINIMUMS:
Rwys 16L/R, std. w/ min. climb of 370' per NM to 7100.
Rwys 34L/R, std. w/ min. climb of 370' per NM to 7100.

DEPARTURE PROCEDURE:
Rwys 16L/R, climbing left turn on heading 053° and VNY R-095 to DARTS INT, thence …
Rwys 34L/R - climbing right turn on heading 143° and VNY R-095 to DARTS INT, thence …
... Aircraft eastbound on V186 and southeast bound on V459 climb on course, all others climb in DARTS holding pattern (hold W, right turns, 095° inbound) to depart DARTS INT at or above 7100.

TAKEOFF OBSTACLE NOTES:
Rwy 16L, light on hangar 713' from DER, 361' left of centerline, 27' AGL/798' MSL.
Rwy 16R, hangar 209' from DER, 516' right of centerline, 15' AGL/755' MSL.
Flagpole 570' from DER, 549' right of centerline, 21' AGL/761' MSL.
Building 941' from DER, 599' left of centerline, 28' AGL/774' MSL.
Trees beginning 1129' from DER, left and right of centerline, up to 81' AGL/821' MSL.
Rwy 34L, blast fence 169' from DER, 405' left of centerline, 10' AGL/812' MSL.
Obstruction light on blast fence, 241' from DER, 195' left of centerline, 17' AGL/819' MSL.
Multiple trees beginning 325' from DER, 549' right of centerline, up to 91' AGL/921' MSL.
Train 305' from DER, 369' right of centerline, 23' AGL/832' MSL.
Building 424' from DER, 589' right of centerline, 29' AGL/831' MSL.
Antenna on building 449' from DER 462' left of centerline, 15' AGL/817' MSL.
Pole 1376' from DER, 779' left of centerline, 68' AGL/870' MSL.
Trees beginning 828' from DER, 15' left of centerline, 78' AGL/907' MSL.
Rwy 34R, train 305' from DER, 5' left of centerline, 23' AGL/832' MSL.
Building 424' from DER, 214' right of centerline, 32' AGL/831' MSL.
Trees beginning 324' from DER, left and right of centerline, up to 91' AGL/921' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 21JUL16 (16203) (FAA)

Rwy 16L, heading as assigned by ATC; requires minimum climb of 380' per NM to 2600.
Rwy 16R, heading as assigned by ATC; requires minimum climb of 450' per NM to 2600.

VANDENBERG AFB (KVBG)

LOMPOC, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10SEP20 (20254) (USAF)

TAKEOFF MINIMUMS:
Rwy 12, 300-1¼ w/min. climb of 310' per NM to 3300 or std. w/min. climb of 330' per NM to 3200.

DEPARTURE PROCEDURE:
Rwy 30, use VANDENBERG THREE DEPARTURE.

VCOA:
Rwy 12/30, for climb in visual conditions 1700-2½. Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Vandenberg airport at or above 1900 before proceeding on course. Remain within 4 NM of Vandenberg airport during climb in visual conditions.
Note: Aircrews must notify ATC prior to executing this VCOA procedure.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 30JAN20 (20030)

Rwy 12, heading as assigned by ATC; requires min. climb of 296' per NM to 3300.
Rwy 30, heading as assigned by ATC; requires min. climb of 246' per NM To 3300.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VICTORVILLE, CA

SOUTHERN CALIFORNIA LOGISTICS (VCV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15MAR07 (07074) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, std. w/ min. climb of 266' per NM to 3500 or 5300-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 3, climbing left turn heading 220°, thence. . .
or for climb in visual conditions cross Southern California Logistics Airport at or above 8000 MSL before proceeding on course.

Rwys 17, 21, climbing right turn heading 325°, thence. . .

Rwy 35, climbing left turn heading 220°, thence. . .

. . .All aircraft climb via VCV VOR/DME R-269 to ETHER INT. Continue climb in ETHER holding pattern (NE PMD VORTAC, left turn, 247° inbound) to MEA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 3, pole 408' from DER, 511' right of centerline, 29' AGL/2873' MSL.
Terrain beginning 153' from DER, 41' right of centerline, up to 3196' MSL.
Terrain beginning 17' from DER, 104' left of centerline, up to 2855' MSL.
Tree 2.1 NM from DER, 3735' right of centerline, 50' AGL/3269' MSL.

Rwy 17, sign 248' from DER, 277' left of centerline, 14' AGL/2896' MSL.
Antenna on building 701' from DER, 203' left of centerline, 20' AGL/2902' MSL.

SW-3, 05 NOV 2020 to 31 DEC 2020

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RNP)] are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

NAME	ALTERNATE MINIMUMS

BAKERSFIELD, CA
MEADOWS FIELD (BFL)..... **ILS or LOC Rwy 30R[1]**
RNAV (GPS) Rwy 12L
RNAV (GPS) Rwy 30R
NA when local weather not available.
[1]NA when control tower closed.

BIG BEAR CITY, CA
BIG BEAR CITY (L35)..... **RNAV (GPS) Rwy 26**
Categories A, B, 1600-2.

BLYTHE, CA
BLYTHE (BLH)..... **RNAV (GPS) Rwy 26[1]**
VOR /DME-A[2]
VOR/DME Rwy 26[2]
[1]Categories A, B, 1700-2; Categories C, D, 1700-3
[2]Category D, 900-2¾.

BURBANK, CA
BOB HOPE (BUR)..... **ILS Y or LOC Y Rwy 8[3]**
ILS Z or LOC Z Rwy 8[1]
RNAV (GPS)-A[2]
RNAV (GPS) Z Rwy 8[4]
RNAV (RNP) Y Rwy 8[5]
VOR Rwy 8[4]
[1]LOC, Category B, 900-2; Category C, 1500-3; Category D, 1600-3.
[2]Categories A, B, 1100-2; Category C, 1500-3; Category D, 1600-3.
[3]ILS Categories A, B, C, D 900-2½; LOC, Categories A, B, 900-2; Category C, 1500-3; Category D, 1600-3.
[4]Categories A, B, 900-2; Category C, 1500-3; Category D, 1600-3.
[5]Categories A, B, C, D, 800-2½.

CAMARILLO, CA
CAMARILLO (CMA)..... **RNAV (GPS) Rwy 8[13]**
RNAV (GPS) Y Rwy 26[1]
VOR Rwy 26[2]
[1]NA when local weather not available.
[2]Categories A, B, 1100-2; Category C, 1100-3.
[3]Categories C, D, 800-2½.

NAME	ALTERNATE MINIMUMS

CARLSBAD, CA
MC CLELLAN-PALOMAR (CRQ)..... **ILS or LOC Rwy 24[12]**
RNAV (GPS) X Rwy 24[3]
RNAV (GPS) Y Rwy 6[4]
RNAV (GPS) Y Rwy 24[3]
VOR-A[56]
[1]NA when control tower closed.
[2]ILS, Categories A, B, 700-2; Category C, 1000-2¾. LOC, Category C 1000-2¾.
[3]Category C, 1000-2¾.
[4]Categories A, B, 900-2; Category C, 1000-2¾; Category D 1500-3.
[5]Categories A, B, 1000-2; Category C, 1000-3.
[6]NA when local weather not available.

CHINO, CA
CHINO (CNO)..... **ILS or LOC Rwy 26R**
NA when control tower closed.

DAGGETT, CA
BARSTOW-DAGGETT (DAG)..... **RNAV (GPS) Rwy 22[1]**
RNAV (GPS) Rwy 26[3]
VOR or TACAN Rwy 22[2]
NA when local weather not available.
[1]Category B, 900-2; Category C, 1000-2¾; Category D, 1000-3.
[2]Categories A, B, 1700-2; Categories C, D, 1700-3.
[3]Category B, 1000-2; Categories C, D, 1600-3.

EL MONTE, CA
SAN GABRIEL VALLEY (EMT)..... **VOR-A[12]**
[1]NA when local weather not available.
[2]Categories A, B, 1000-2; Category C, 1000-3 Category D, 1100-3.

FULLERTON, CA
FULLERTON MUNI (FUL)..... **LOC/DME Rwy 24[1]**
VOR-A[2]
[1]NA when control tower closed.
[2]Categories A, B, 1500-2.

SW-3, 05 NOV 2020 to 31 DEC 2020

NAME ALTERNATE MINIMUMS

HAWTHORNE, CA
JACK NORTHROP FIELD/ HAWTHORNE MUNI (HHR)..... **LOC Rwy 25[1]**
RNAV (GPS) Rwy 25
VOR Rwy 25[12]
Category D, 800-2¼.
[1]NA when control tower closed.
[2]NA when local weather not available.

HEMET, CA
HEMET-RYAN (HMT)..... **RNAV (GPS) Rwy 5**
NA when local weather not available.
Categories A, B, 900-2; Category C, 1100-3.

LA VERNE, CA
BRACKETT FIELD (POC)..... **ILS Rwy 26L[12]**
LOC Rwy 26L[123]
RNAV (GPS) Rwy 26L[13]
VOR or GPS-A[23]
[1]NA when local weather not available.
[2]NA when control tower closed.
[3]Category C, 800-2¼.

LANCASTER, CA
GENERAL WILLIAM J. FOX AIRFIELD (WJF)..... **VOR-B[1]**
RNAV (GPS) Rwy 6[2]
RNAV (GPS) Rwy 24[2]
[1]Categories A, B, 1000-2; Categories C, D, 1000-3.
[2]NA when local weather not available.

LOMPOC, CA
LOMPOC (LPC)..... **RNAV (GPS) Rwy 25[1]**
VOR/DME-A[2]
[1]NA when local weather not available.
[2]Categories A, B, 1300-2.

LONG BEACH, CA
LONG BEACH/DAUGHERTY FIELD (LGB)..... **ILS or LOC Rwy 30[12]**
RNAV (RNP) Rwy 12[1]
RNAV (RNP) Rwy 26R[1]
RNAV (RNP) Y Rwy 30[1]
VOR or TACAN Rwy 30[3]
[1]NA when control tower closed.
[2]LOC, Category C, 800-2¼; Category D, 800-2½.
[3]LOC, Category C, 800-2¼; Category D, 800-2½; NA when control tower closed.

LOS ANGELES, CA
WHITEMAN (WHP)..... **VOR-A**
Category B, 900-2; Category C, 1200-3.

MOJAVE, CA
MOJAVE AIR AND SPACE PORT (MHV)..... **RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 22
NA when local weather not available.
Category C, 1400-3; Category D, 1700-3.

NAME ALTERNATE MINIMUMS

NEEDLES, CA
NEEDLES (EED)..... **VOR-A**
Category D, 800-2½.

OCEANSIDE, CA
BOB MAXWELL MEMORIAL AIRFIELD (OKB)..... **VOR-A**
Categories A, B, 1200-2.

ONTARIO, CA
ONTARIO INTL (ONT)..... **ILS or LOC Rwy 8L[1]**
ILS or LOC Rwy 26L[2]
ILS or LOC Rwy 26R[3]
[1]ILS, Category D, 700-2.
[2]LOC, Categories, C, D, 800-2½.
[3]LOC, Category D, 800-2¼.

OXNARD, CA
OXNARD (OXR)..... **ILS or LOC Rwy 25[12]**
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 25
NA when local weather not available.
[1]ILS, Category D, 700-2.
[2]NA when control tower closed.

PALM SPRINGS, CA
JACQUELINE COCHRAN RGNL (TRM)..... **RNAV (GPS) Rwy 30[1]**
RNAV (GPS) Rwy 35[2]
VOR Rwy 30[1]
VOR-A[3]
[1]Category D, 900-3.
[2]Categories C, D, 1100-3.
[3]Categories A, B, 1600-2; Categories C, D, 1600-3.

PALM SPRINGS INTL (PSP)..... **RNAV (RNP) Y Rwy 31L[1]**
RNAV (RNP) Z Rwy 13R[1]
VOR or GPS-B[2]
[1]NA when control tower closed.
[2]Categories A, B, 1900-2; Categories C, D, 1900-3.

PALMDALE, CA
PALMDALE USAF PLANT 42 (PMD)..... **ILS or LOC Rwy 25[12]**
RNAV (GPS) Rwy 7[3]
RNAV (GPS) Rwy 22[3]
RNAV (GPS) Rwy 25[3]
VOR or TACAN Rwy 25[4]
[1]NA when control tower closed.
[2]ILS, LOC, Categories A, B, 1000-2; Category C, 1000-3; Category D, 1200-3; Category E, 1300-3.
[3]Category D, 1200-3.
[4]Category D, 1200-3; Category E, 1300-3.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

NAME ALTERNATE MINIMUMS

PASO ROBLES, CA

PASO ROBLES
MUNI (PRB)..... **RNAV (GPS) Rwy 19**[12]
RNAV (GPS) Rwy 31[12]
VOR Rwy 19[3]
VOR-B[3]

[1]NA when local weather not available.
[2]Category D, 900-2¾.
[3]Category D, 900-3.

RAMONA, CA

RAMONA (RNM)..... **RNAV (GPS)-B**[1]
RNAV (GPS) Rwy 9[2]
VOR/DME-A[3]

NA when local weather not available.
[1]Categories A, B, 1400-2; Category C, 1400-3.
[2]Categories A, B, 900-2; Category C, 900-2½.
[3]Categories A, B 1200-2; Category C, 1200-3.

RIVERSIDE, CA

RIVERSIDE
MUNI (RAL)..... **ILS or LOC Rwy 9**[123]
RNAV (GPS) Rwy 9[34]
RNAV (GPS) Rwy 27[5]
VOR-A[36]
VOR Rwy 9[35]

[1]NA when control tower closed.
[2]ILS, LOC, Category C, 900-2¼; Category D, 900-2½.
[3]NA when local weather not available.
[4]Category C, 900-2¼; Category D, 900-2½.
[5]Categories A, B, 1300-2; Category C, 1300-3.
[6]Categories A, B, 1500-2; Categories C, D, 1500-3.

SAN BERNARDINO, CA

SAN BERNARDINO
INTL (SBD)..... **ILS or LOC Z Rwy 6**[12]
LOC Y Rwy 6[13]
RNAV (GPS) Y Rwy 6[4]
RNAV (GPS) Z Rwy 6[5]

NA when local weather not available.
[1]NA when control tower closed.
[2]LOC, Category D, 1500-3.
[3]Categories A, B, 1000-2; Category C, 1000-3, Category D, 1500-3.
[4]Categories A, B, 1400-2; Category C, 1400-3, Category D, 1500-3.
[5]Category D, 1500-3.

SAN DIEGO, CA

BROWN FIELD
MUNI (SDM)..... **RNAV (GPS) Rwy 8L**[12]
VOR or TACAN-A[3]

[1]NA when local weather not available.
[2]Category D, 1800-3.
[3]Categories A, B, C, 900-2¾; Category D, 1800-3.

MONTGOMERY-GIBBS
EXECUTIVE (MYF)..... **RNAV (GPS) Rwy 28R**
NA when local weather not available.

NAME ALTERNATE MINIMUMS

SAN DIEGO, CA (CON'T)

SAN DIEGO
INTL (SAN)..... **ILS Y or LOC Y Rwy 9**[1]
ILS Z or LOC Z Rwy 9[2]
LOC Rwy 27[3]
RNAV (GPS) Rwy 9[4]
RNAV (GPS) Y Rwy 27[3]

[1]LOC, Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.
[2]LOC, Category B, 900-2; Category C, 900-2¼; Category D, 1000-3.
[3]Categories A, B, 900-2; Category C, 900-2½; Category D, 1000-3.
[4]Category B, 900-2; Category C, 900-2¼; Category D, 1000-3.

SAN DIEGO/EL CAJON, CA

GILLESPIE
FIELD (SEE)..... **LOC-D**[12]
RNAV (GPS) Rwy 9L[3]
RNAV (GPS) Rwy 17[45]

[1]NA when control tower closed.
[2]Categories A, B, 1200-2; Categories C, D, 1600-3.
[3]Categories, A, B, 1400-2.
[4]Categories A, B, 1100-2; Categories C, D, 1100-3.
[5]NA when local weather not available.

SAN LUIS OBISPO, CA

SAN LUIS
COUNTY RGNL (SBP)..... **ILS Rwy 11**[1]
LOC Rwy 11[12]
RNAV (GPS) Rwy 11[34]
RNAV (GPS) Rwy 29[34]
VOR or TACAN A[5]

[1]NA when control tower closed.
[2]Categories A, B, 1000-2; Category C, 1000-3; Category D, 1100-3.
[3]Category B, 1100-2; Category C, 1300-3; Category D, 1400-3.
[4]NA when local weather not available.
[5]Categories A, B, 1500-2; Categories C, D, 1500-3.

SANTA ANA, CA

JOHN WAYNE AIRPORT-ORANGE
COUNTY (SNA)..... **ILS or LOC Rwy 20R**[13]
LDA/DME Rwy 20R[124]
LOC BC Rwy 2L[124]
RNAV (GPS) Y Rwy 2L[24]
RNAV (GPS) Y Rwy 20R[2]

[1]NA when control tower closed.
[2]Category C, 800-2¼; Category D, 1200-3.
[3]ILS, LOC, Categories A, B, 1000-2; Category C, 1000-3; Category D, 1200-3.
[4]NA when local weather not available.

NAME ALTERNATE MINIMUMS

SANTA BARBARA, CA

SANTA BARBARA MUNI (SBA)..... **ILS or LOC Rwy 7**[12]
RNAV (GPS) Rwy 7[13]
VOR or GPS Rwy 25[4]

[1]NA when local weather not available.
[2]ILS, Categories A, B, 800-2; Category C, 800-2¼; Category D, 1000-3. LOC, Category C, 800-2¼; Category D, 1000-3.
[3]Category C, 800-2¼; Category D, 1000-3.
[4]Categories A, B, 1000-2; Categories C, D, 1000-3.

SANTA MARIA, CA

SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)..... **ILS or LOC Rwy 12**[145]
LOC/DME BC-A[24]
RNAV (GPS) Rwy 12[35]
RNAV (GPS) Rwy 30[56]
VOR Rwy 12[35]

[1]ILS, LOC, Category D, 1100-3.
[2]Category A, B, 900-2; Category C, 900-2½; Category D, 1100-3.
[3]Category D, 1100-3.
[4]NA when control tower closed.
[5]NA when local weather not available.
[6]Categories A, B, 1400-2; Category C, 1400-3.

SANTA MONICA, CA

SANTA MONICA MUNI (SMO)..... **RNAV (GPS) Rwy 21**[1]
RNAV (GPS) Y Rwy 3[2]
RNAV (GPS) Z Rwy 3[3]

[1]Categories A, B, 1000-2; Categories, C, D, 1000-2½.
[2]Categories A, B, 900-2; Categories C, D, 900-2½.
[3]Categories A, B, 1300-2.

SANTA YNEZ, CA

SANTA YNEZ (IZA)..... **VOR or GPS-B**

Categories A, B, 1300-2.
NA except for operators with approved weather reporting service.

TORRANCE, CA

ZAMPERINI FIELD (TOA)..... **ILS or LOC Rwy 29R**
RNAV (GPS) Rwy 11L
RNAV (GPS) Rwy 29R
VOR Rwy 11L[1]

NA when control tower closed, except for operators with approved weather reporting services.
[1]Categories A, B, 900-2; Category C, 900-2½.

NAME ALTERNATE MINIMUMS

VAN NUYS, CA

VAN NUYS (VNY)..... **ILS Y Rwy 16R**[123]
ILS Z Rwy 16R[12]
LDA-C[45]
VOR-A[6]
VOR-B[7]

[1]NA when control tower closed.
[2]NA when local weather not available.
[3]ILS, Categories A, B, C, D, 700-2.
[4]Category D, 1300-3.
[5]NA when KBUR control tower closed.
[6]Category D, 1000-3.
[7]Categories A, B, 900-2; Category, C, 900-2½; Category D,1000-3.

VICTORVILLE, CA

SOUTHERN CALIFORNIA LOGISTICS (VCV)..... **ILS or LOC Rwy 17**[1]
RNAV (GPS) Rwy 17[2]
VOR/DME Rwy 17[2]

NA when local weather not available.
[1]ILS, Category D, 700-2¼; LOC, Category D, 800-2¼.
[2]Category D, 800-2¼.

SW-3, 05 NOV 2020 to 31 DEC 2020

RADAR INSTRUMENT APPROACH MINIMUMS

CAMP PENDLETON MCAS (KNFG), (MUNN FIELD), CA (Oceanside)

(Amdt 1, 20030 USN) ELEV **78**

RADAR - (E) 236.3 277.325 T A NA

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR	21[1 2 5]	3.5°/49/847	ABCD	**387**-¾	309	(400-¾)
W/O GS	21[5 6]		AB	**920**-1	842	(900-1)
			CD	**920**-2	842	(900-2)
ASR	21[3]		AB	**1000**-1	922	(1000-1)
			CD	**1000**-2½	922	(1000-2½)
CIR	ALL RWY[4 7]		A	**1000**-1¼	922	(1000-1¼)
			B	**1180**-1½	1102	(1100-1½)
			CD	**1400**-3	1322	(1400-3)

[1]CAUTION - Trees penetrate obstacle surfaces within the visual portion of the procedure approximately 2200' from threshold. Pilots must have trees in sight prior to descending from decision height.
[2]When ALS inop, increase vis CAT ABCD to ⅞ mile.
[3]When ALS inop, increase CAT AB vis to 1¼ miles.
[4]Cir auth fr ASR and PAR W/O GS only.
[5]No-NOTAM preventative maint sked: PAR 2100-0100Z++Mon.
[6]When ALS inop, increase CAT AB vis to 1¼ miles, CAT CD to 2½ miles.
[7]Circling to Rwy 3 NA at night when PAPI OTS.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS
20310

N1

LOS ALAMITOS AAF (KSLI), CA (1-Amdt 6, 2-Amdt 3, 3-Orig-A, 18144 USA) ELEV 35

RADAR[1 2] **- (E)** 124.75 127.95 279.5 285.55 290.9 T A NA

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
RADAR 1						
PAR	22L[3 6 9]	3.0°/40/745	ABCD	**285**-¾	250	(300-¾)
PAR W/O GS	22L[3 4 6 7 9]		AB	**420**-¾	385	(400-¾)
			CD	**420**-⅞	385	(400-⅞)
RADAR 2						
COPTER PAR	22L[8 9]	4.0°/40/572	A	**235**-¼	200	(200-¼)
RADAR 3						
ASR	22L[4 5]		AB	**440**-¾	405	(500-¾)
			CD	**440**-1	405	(500-1)
CIR	22L[4]		A	**440**-1	405	(500-1)
			B	**500**-1	465	(500-1)
			C	**500**-1½	465	(500-1½)
			D	**600**-2	565	(600-2)

[1]PAR opr 1500-2300Z++ Mon and Fri, 2100-0500Z++ Tue-Thu, clsd wkend and hol.
[2]Multiple PAR apch avbl during VFR ctc twr for freq assn.
[3]When ALS inop, increase PAR Rwy 22L vis all CATs to ⅞ mile, increase PAR W/O GS Rwy 22L CAT D vis to 1⅛ miles.
[4]Circling NA N of Rwy 4L-22R.
[5]When ALS inop, increase vis all CATs ¼ mile.
[6]When local altimeter setting not received, use Santa Ana altimeter setting and increase all DAs 30 ft, MDAs 40 ft and increase PAR W/O GS CAT C and D vis to 1 mile.
[7]When ALS INOP and using Santa Ana altimeter setting, increase CAT D vis to 1⅛ SM.
[8]When local altimeter setting not received, use Santa Ana altimeter setting and increase DA 30 ft, increase vis to ⅜ mile.
[9]VGSI and PAR glidepath not coincident.

SW-3, 05 NOV 2020 to 31 DEC 2020

MIRAMAR MCAS (JOE FOSS FLD) (KNKX), San Diego, CA

(20282) (USN) ELEV **477**

RADAR[1] **- (E)** 133.625 134.3x 266.8x 270.35 307.9x 328.4x 348.75 350.275 371.9 379.125

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR	24R[2]	3.0°/53/1136	ABCDE	**575**-¼	100	(100-¼)
	24L	3.0°/46/1036	ABCDE	**577**-½	100	(100-½)
PAR W/O GS[5 8]	24R[3]		AB	**840**-½	365	(400-½)
			CDE	**840**-⅝	365	(400-⅝)
	24L		ABCDE	**840**-1	363	(400-1)
ASR	6L[7]		AB	**820**-1	388	(400-1)
			CDE	**820**-1⅛	388	(400-1⅛)
	24R[4 8]		AB	**940**-⅝	465	(500-⅝)
			CDE	**940**-1	465	(500-1)
	24L[8]		AB	**940**-1	463	(500-1)
			CDE	**940**-1⅜	463	(500-1⅜)
CIR[6]	All Rwy		A	**940**-1	463	(500-1)
			B	**960**-1	483	(500-1)
			C	**960**-1½	483	(500-1½)
			D	**1180**-2¼	703	(800-2¼)
			E	**1360**-3	883	(900-3)

[1]Other APP CON freq as asgn.
[2]When ALS inop, increase vis CAT ABCDE to ½ mile.
[3]When ALS inop, increase vis CAT ABCDE to 1 mile.
[4]When ALS inop, increase vis CAT AB to 1 mile, CAT CDE to 1⅜ miles.
[5]No NOTAM MP: PAR O/S 1400-2000Z++ Tue.
[6]CAT E circling not authorized S of Rwy 6R-24L.
[7]Step Down Fix at 2 NM from thld, 1120 min.
[8]Step Down Fix at 4 NM from thld, 1900 min, Step Down Fix at 2 NM from thld, 1260 min.

RADAR INSTRUMENT APPROACH MINIMUMS

NORTH ISLAND NAS (HALSEY FIELD) (KNZY), San Diego, CA

Amdt 1 05NOV20 (20310) (USN) ELEV **26**

RADAR - (E) 127.7x 133.175x 319.9x 350.8x 353.5x 382.0x 385.5x

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR[1]	36[5]	3.0°/45/846	ABCDE	**119**-¼	100	(100-¼)
	29[9 10 11]	3.0°/35/722	ABCDE	**276**-¾	250	(300-¾)
PAR W/O GS[1]	36[8]		AB	**420**-¾	401	(400-¾)
			CDE	**420**-1	401	(400-1)
	29[2 3 10]		AB	**540**-¾	514	(600-¾)
			CDE	**540**-1	514	(600-1)
PAR E RWY 29 SHORT (OFFSET)	29[1 7 9 10]	3.0°/35/722	A	**620**-2	594	(600-2)
PAR or PAR W/O GS D RWY 29 (OFFSET)	29[1 2 10 11]		ABCDE	**620**-2	594	(600-2)
ASR	29[2 4]		AB	**540**-¾	514	(600-¾)
			CDE	**540**-1	514	(600-1)
	36[6]		A	**760**-¾	741	(800-¾)
			B	**760**-1	741	(800-1)
			CDE	**760**-1⅛	741	(800-1⅛)
ASR C RWY 29 (OFFSET)	29[2]		ABCDE	**620**-2	594	(600-2)
C CIR	29[2]		AB	**620**-2	594	(600-2)
			CDE	**NOT AUTHORIZED**		
	36		ABCDE	**NOT AUTHORIZED**		

[1]No-NOTAM MP sked 2000-2400Z++ Mon.
[2]Cir auth to Rwy 18 only. Cir not auth W Rwy 18-36.
[3]When ALS inop, increase vis CAT AB to 1⅛ miles, CAT CDE to 1⅜ miles.
[4]When ALS inop, increase vis CAT AB to 1 mile, CAT CDE to 1⅜ miles.
[5]When ALS inop, increase vis to ½ mile.
[6]When ALS inop, increase vis CAT A to 1 mile, CAT B to 1¼ miles, CAT CDE to 2 miles.
[7]Minima applicable for rotorcraft short offset approaches.
[8]When ALS inop, increase vis CAT AB to 1 mile, CAT CDE to 1⅛ miles.
[9]CAUTION: WCH Group 3: 15' and Group 4: 10' is less than required 20'.
[10]Rwy 29 VGSI and PAR TCH not coincident, VGSI TCH 46'.
[11]Visibility Reduction by Helicopters NA.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS
20310

N4

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD), CA (Oxnard)

(Amdt 1, 18228 USN) ELEV **13**

RADAR[6] **- (E)** 123.75x 133.25 233.7x 269.225 350.25 353.925

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/HATh/ HAA	CEIL-VIS
PAR	3[2]	3.0°/46/876	ABCDE	**110**-¼	100	(100-¼)
	21	3.0°/47/889	ABCDE	**113**-½	100	(100-½)
PAR	21(altn MAP)[4]	3.0°/47/889	ABCDE	**650**-1¾	637	(700-1¾)
PAR W/O GS	3[3]		ABCDE	**300**-¾	290	(300-¾)
	21[5]		AB	**420**-⅝	407	(500-⅝)
			CDE	**420-¾**	407	(500-¾)
	21(altn MAP)[4]		ABCDE	**420**-1¾	407	(500-1¾)
ASR	3[3]		ABCDE	**320**-¾	310	(400-¾)
	21[5]		AB	**420**-⅝	407	(500-⅝)
			CDE	**420**-¾	407	(500-¾)
ASR	21(altn MAP)[4]		ABCDE	**480**-1⅞	467	(500-1⅞)
CIR[1]	3,21		A	**440**-1	427	(500-1)
			B	**480-1**	467	(500-1)
			C	**480**-1½	467	(500-1½)
			D	**580**-2	567	(600-2)
			E	**NOT AUTHORIZED**		

Expanded RADAR svc-All flt conducted under positive ctl. Inbd acft not opr under ATC or PLEAD ctc APP CON 25 NM out on 307.275 or 128.65.

[1]Circling not authorized E of Rwy 3-21,with PAR approach, or when Alternate MAP Rwy 21 in use. [2]When ALS inop, increase vis CAT ABCDE to ½ mile. [3]When ALS inop, increase vis CAT ABCDE to 1 mile. [4]When ALS inop, increase vis CAT ABCDE to 2½ miles. [5]When ALS inop, increase vis CAT AB to 1 mile, CAT CDE vis to 1⅛ miles. [6]No-NOTAM preventive maint 1500-2000Z++ Tue.

RADAR INSTRUMENT APPROACH MINIMUMS

SAN CLEMENTE ISLAND NALF (KNUC), (FREDERICK SHERMAN FLD), CA

(Amdt 1, 19311 USN) **ELEV 184**

RADAR - (E) 127.05x 282.275 292.15 351.85x

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR[1 3]	24	3.0°/38/861	ABCDE	**293**-½	109	(200-½)
PAR[1]	W/O GS 24		AB	**580**-1	396	(400-1)
			CDE	**580**-1⅛	396	(400-1⅛)
ASR[1]	24		AB	**860**-1	676	(700-1)
			CDE	**860**-1⅛	676	(700-1⅛)
CIR[2]	W/O GS All Rwy		A	**580**-1	396	(400-1)
			B	**640**-1	456	(500-1)
			C	**640**-1½	456	(500-1½)
			DE	**740**-2	556	(600-2)
CIR[2]	All Rwy		AB	**860**-1	676	(700-1)
			C	**860**-2	676	(700-2)
			D	**860**-2¼	676	(700-2¼)
			E	**860**-2½	676	(700-2½)

[1]No-NOTAM MP PAR/ASR 1800-2200Z++ Tue.
[2]Circling not authorized S of Rwy 6-24.
[3]CAUTION: WCH Group 3: 19' and Group 4: 14' is less than required 20'.

SW-3, 05 NOV 2020 to 31 DEC 2020

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS
20310

N6

19059

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
BURBANK, CA			
BOB HOPE (BUR)	15	08-26	4,250 feet
LONG BEACH, CA			
LONG BEACH (DAUGHERTY FIELD) (LGB)	26R	12-30	3,400 feet
	30	08L-26R	5,850 feet

SW-3, 05 NOV 2020 to 31 DEC 2020

19059

20254

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 polygons 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*
BURBANK,CA		
BOB HOPE (BUR)	HS 1	NW corner of terminal ramp close proximity to Rwy 33-15 rwy holding position markings
CARLSBAD, CA		
MC CLELLAN-PALOMAR (CRQ)	HS 1	Large Jets may obscure twr visibility of small aircraft.
	HS 2	Exiting Rwy 24 at Twy A4
CHINO, CA		
CHINO (CNO)	HS 1	Twy D close proximity to Rwy 08L-26R.
	HS 2	Twy L close proximity to Rwy 03-21.
	HS 3	Twy K close proximity to Rwy 08L-26R.
	HS 4	Twy L, Twy D, and Twy K complex int.
EL MONTE, CA		
SAN GABRIEL VALLEY (EMT)	HS 1	Twy A at Twy C.
	HS 2	Twy A at Twy D.
HAWTHORNE, CA		
JACK NORTHROP FIELD/ HAWTHORNE MUNI (HHR)	HS 1	Rwy 25 run-up area.
LANCASTER, CA		
GENERAL WM J FOX AIRFIELD (WJF)	HS 1	Pilots mistake Rwy 06-24 for Twy A.
LA VERNE, CA		
BRACKETT FIELD (POC)	HS 1	Twy A between the apch ends of Rwy 26R and Rwy 26L.
LONG BEACH, CA		
LONG BEACH (DAUGHERTY FLD) (LGB)	HS 1	Rwy 12-30 and Rwy 08L-26R, Twy B and Twy K.
	HS 2	Rwy 08R-26L, Twy B.
LOS ANGELES, CA		
LOS ANGELES INTL (LAX)	HS 1	Rwy 24L and Twy AA.
	HS 2	Rwy 24L and Twy Z.
	HS 3	Rwy 25 L, Rwy 25 R and Twy F.
	HS 4	Twy H and Twy H5.
	HS 5	Twy H, Twy H5, and Twy H6.
MOJAVE, CA		
MOJAVE AIR AND SPACE PORT (MHV)	HS 1	Rwy 08 and Rwy 04 at Twy C and Twy F. Ensure clearance received for each rwy.
	HS 2	Twy A, Twy C, Twy D intersect. Limited tower visibility.
ONTARIO, CA		
ONTARIO-INTL (ONT)	HS 1	Twy F at Rwy 08R/26L frequent centerline confusion crossing rwy southbound.
	HS 2	Twy P and Twy Q confusing split between rwys southbound.

(SEE CONTINUATION PAGE FOR MORE LISTINGS)

20254

SW-3, 05 NOV 2020 to 31 DEC 2020

19339

HOT SPOTS

(CONTINUED)

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
PALM SPRINGS, CA		
PALM SPRINGS INTL (PSP)	HS 1	Twy C mistaken for Rwy 13R-31L or Rwy 13L-31R.
	HS 2	Int of Twy B and Twy C.
	HS 3	Twy B and Rwy 31R.
	HS 4	Twy C and Twy J.
RIVERSIDE, CA		
RIVERSIDE MUNI (RAL)	HS 1	Twy A and Rwy 34.
	HS 2	ATC non-vis area.
SAN DIEGO, CA		
MONTGOMERY FLD (MYF)	HS 1	Rwy 28R and Rwy 28L, Twy M.
	HS 2	Rwy 28R and Rwy 28L, Twy F.
	HS 3	Rwy 28L and Twy B.
SAN LUIS OBISPO, CA		
SAN LUIS COUNTY RGNL (SBP)	HS 1	Area directly below the Control Twr "not visible".
	HS 2	Twy E, Rwy 29.
SANTA ANA, CA		
JOHN WAYNE ARPT-ORANGE COUNTY (SNA)	HS 1	Rwy 20L and Twy L.
	HS 2	Rwy 20L and Rwy 20R, Twy H.
	HS 3	Twy A,Twy H, and Twy C.
SANTA BARBARA, CA		
SANTA BARBARA MUNI (SBA)	HS 1	Rwy 07-25, Twy C.
	HS 2	Rwy 15L-33R, Rwy 15R-33L, Rwy 07-25. Rwy 15L-33R and Rwy 15R-33L utilized for taxi.
	HS 3	Rwy 25, Twy H and Twy J.
SANTA MARIA, CA		
CAPTAIN G ALLAN HANCOCK FLD (SMX)	HS 1	Twy A, Twy A7, Twy A8, Twy V, and Twy W.
	HS 2	Twy A, Twy A6, Twy A5, Twy R, and Twy S.
	HS 3	Rwy 20 and Twy A.
	HS 4	Rwy 12 and Twy B2 and Twy A2.
TORRANCE, CA		
ZAMPERINI FIELD (TOA)	HS 1	Pilots exiting Rwy 11L-29R sometimes fail to hold short of the Rwy 11R-29L apch hold area on Twy H.
VICTORVILLE, CA		
SOUTHERN CALIFORNIA LOGISTICS (VCV)	HS 1	Wrong rwy departure risk.

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

19339

SW-3, 05 NOV 2020 to 31 DEC 2020

ANJLL FOUR ARRIVAL (RNAV)

(ANJLL.ANJLL4) 19JUL18

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

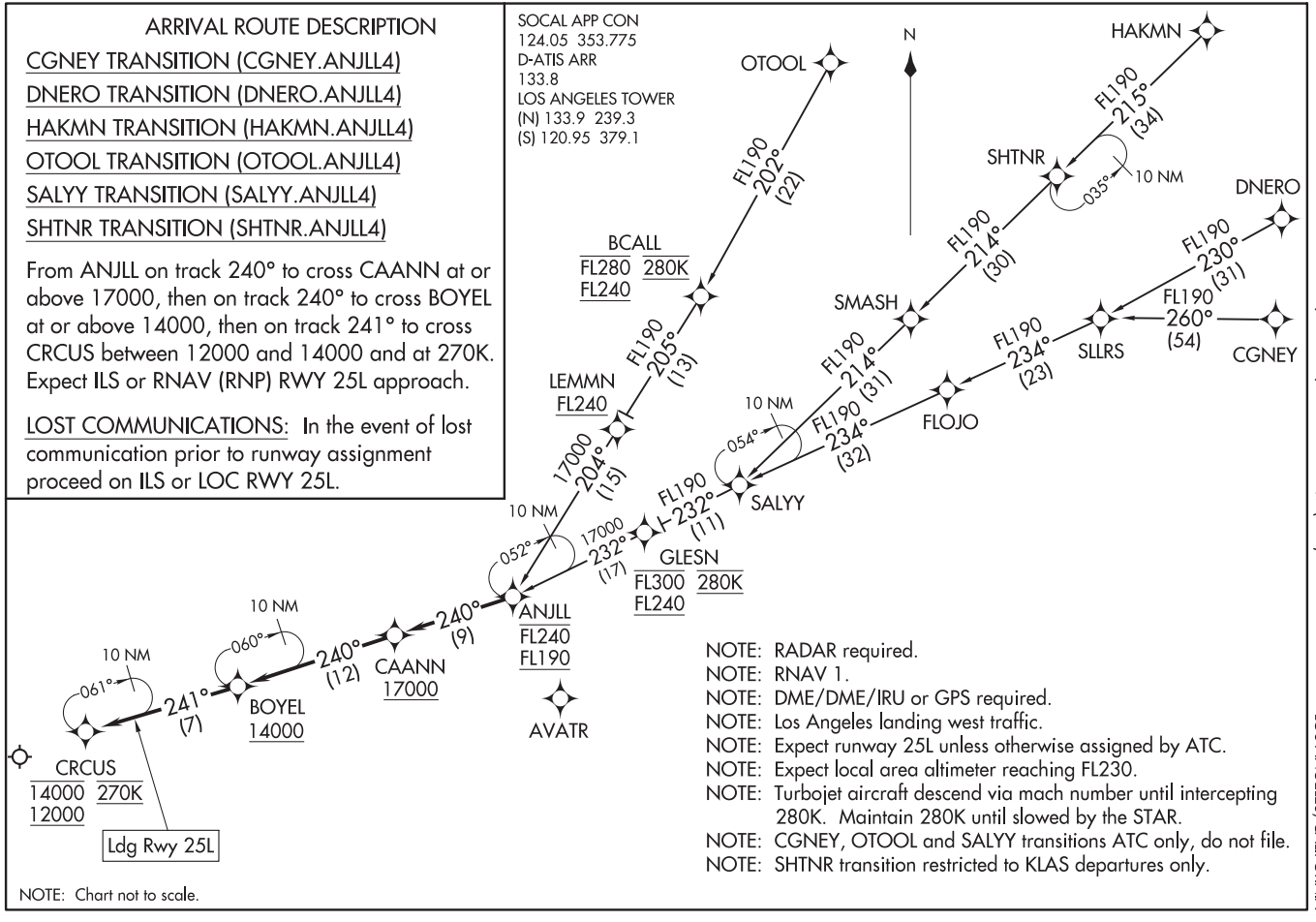
ARRIVAL ROUTE DESCRIPTION

CGNEY TRANSITION (CGNEY.ANJLL4)
DNERO TRANSITION (DNERO.ANJLL4)
HAKMN TRANSITION (HAKMN.ANJLL4)
OTOOL TRANSITION (OTOOL.ANJLL4)
SALYY TRANSITION (SALYY.ANJLL4)
SHTNR TRANSITION (SHTNR.ANJLL4)

From ANJLL on track 240° to cross CAANN at or above 17000, then on track 240° to cross BOYEL at or above 14000, then on track 241° to cross CRCUS between 12000 and 14000 and at 270K. Expect ILS or RNAV (RNP) RWY 25L approach.

LOST COMMUNICATIONS: In the event of lost communication prior to runway assignment proceed on ILS or LOC RWY 25L.

SOCAL APP CON
124.05 353.775
D-ATIS ARR
133.8
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1



NOTE: Chart not to scale.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Los Angeles landing west traffic.
NOTE: Expect runway 25L unless otherwise assigned by ATC.
NOTE: Expect local area altimeter reaching FL230.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.
NOTE: CGNEY, OTOOL and SALYY transitions ATC only, do not file.
NOTE: SHTNR transition restricted to KLAS departures only.

(ANJLL.ANJLL4) 18200
ANJLL FOUR ARRIVAL (RNAV)
LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

AL-237 (FAA)

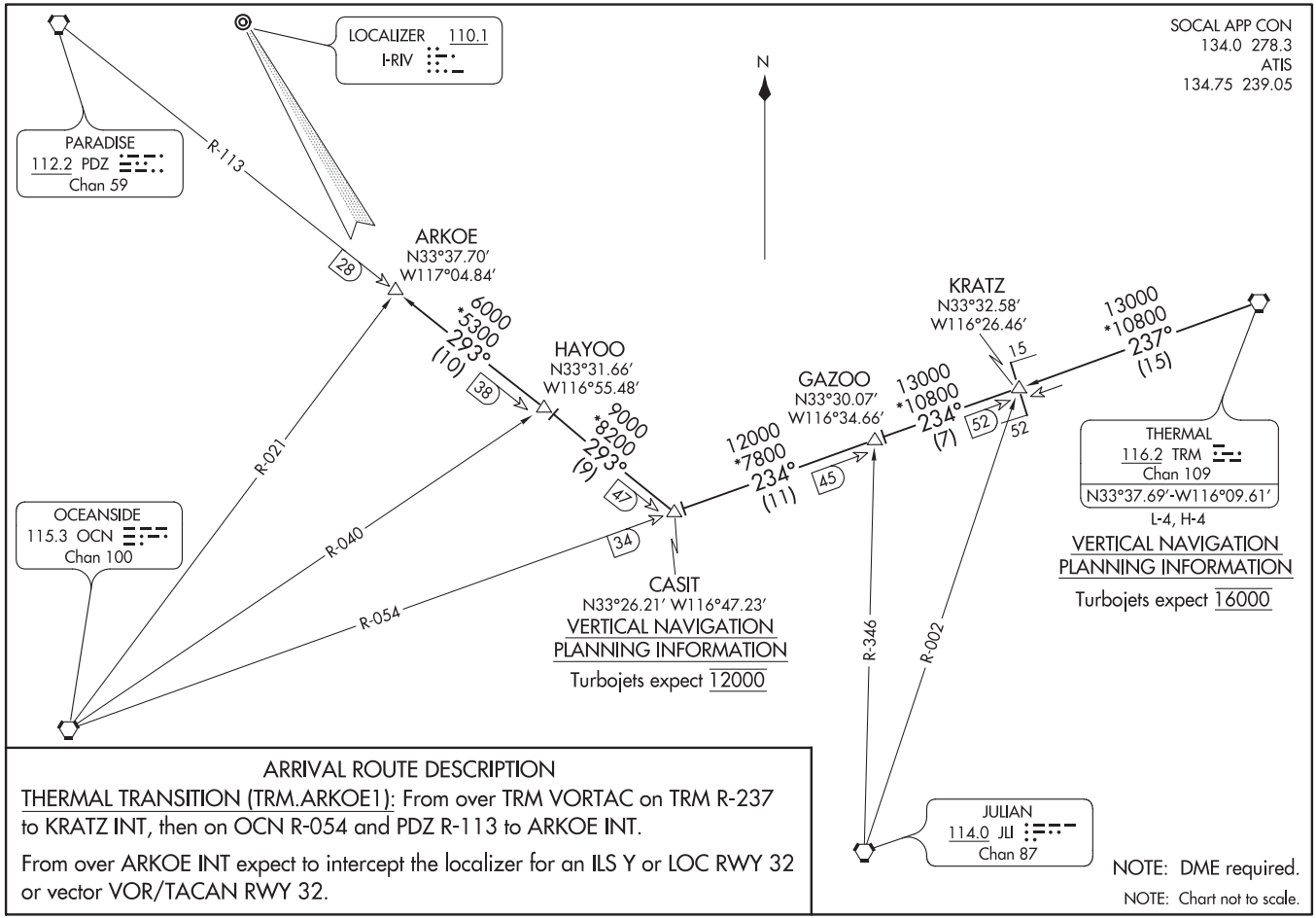
Z1

ARKOE ONE ARRIVAL

(ARKOE.ARKOE1) 05APR12

(ARKOE.ARKOE1) 20310

ARKOE ONE ARRIVAL



ARRIVAL ROUTE DESCRIPTION

THERMAL TRANSITION (TRM.ARKOE1): From over TRM VORTAC on TRM R-237 to KRATZ INT, then on OCN R-054 and PDZ R-113 to ARKOE INT.

From over ARKOE INT expect to intercept the localizer for an ILS Y or LOC RWY 32 or vector VOR/TACAN RWY 32.

RIVERSIDE, CALIFORNIA
MARCH ARB (KRIV)

RIVERSIDE, CALIFORNIA
MARCH ARB (KRIV)

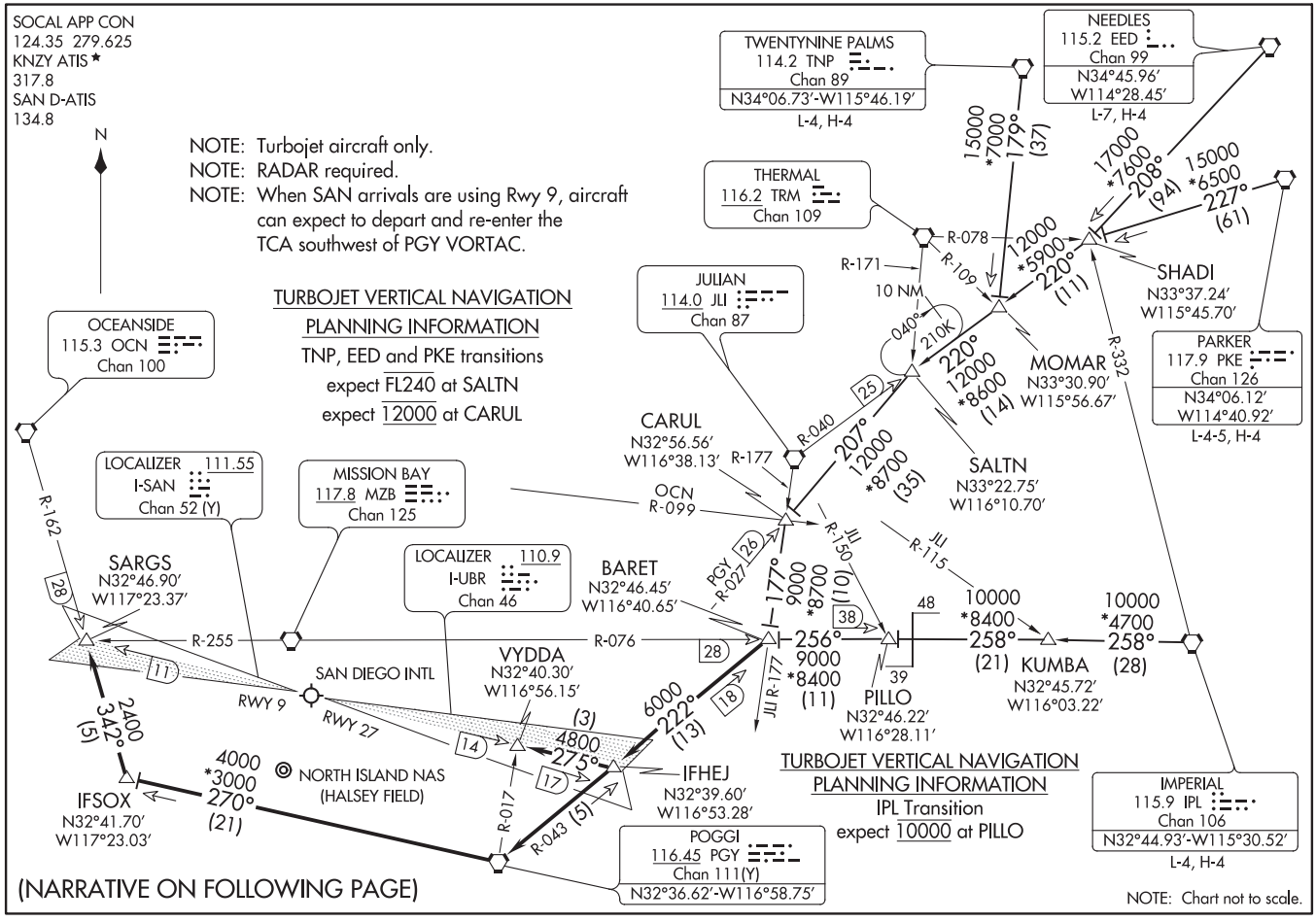
AL-348 (FAA)

Z2

BARET FIVE ARRIVAL

(BARET.BARET5) 08JAN15

SAN DIEGO, CALIFORNIA



(BARET.BARET5) 20198

BARET FIVE ARRIVAL

AL-373 (FAA)

SAN DIEGO, CALIFORNIA

Z3

ARRIVAL ROUTE DESCRIPTION

IMPERIAL TRANSITION (IPL.BARET5): From over IPL VORTAC on IPL R-258 and MZB R-076 to BARET INT. Thence . . . .

NEEDLES TRANSITION (EED.BARET5): From over EED VORTAC on EED R-208 to SHADI INT, then on JLI R-040 to SALTN INT, then on PGY R-027 to CARUL INT, then on JLI R-177 to BARET INT. Thence . . . .

PARKER TRANSITION (PKE.BARET5): From over PKE VORTAC on PKE R-227 to SHADI INT, then on JLI R-040 to SALTN INT, then on PGY R-027 to CARUL INT, then on JLI R-177 to BARET INT. Thence . . . .

TWENTYNINE PALMS TRANSITION (TNP.BARET5): From over TNP VORTAC on TNP R-179 to MOMAR INT, then on JLI R-040 to SALTN INT, then on PGY R-027 to CARUL INT, then on JLI R-177 to BARET INT. Thence . . . .

. . . .LANDING SAN RWY 9: From BARET INT on PGY R-043 to PGY VORTAC, then on PGY R-270 to IFSOX, then on OCN R-162 to SARGS INT.
Expect ILS Rwy 9 approach to SAN or LOC/DME-B to NZY.

. . . .LANDING SAN RWY 27 and NZY: From BARET INT on PGY R-043 to IFHEJ, then on I-UBR localizer to VYDDA INT. Expect LOC Rwy 27 approach to SAN or LOC/DME-A to NZY.

LOST COMMUNICATIONS: In the event of lost communications, North Island arrivals shall execute the TACAN Rwy 29 or TACAN Rwy 36.

SW-3, 05 NOV 2020 to 31 DEC 2020

(BASET.BASET5) 20310

BASET FIVE ARRIVAL

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

AL-237 (FAA)

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

BASET FIVE ARRIVAL

(BASET.BASET5) 07DEC17

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.BASET5): From over HEC VORTAC via HEC R-211 and PDZ R-030 to CIVET INT, then via LAX R-068 to BASET INT. Thence. . . .

JULIAN TRANSITION (JLI.BASET5): From over JLI VORTAC via JLI R-303 to WYVIL, then via PDZ R-105 to PDZ VORTAC, then via PDZ R-277 to ARNES, then via LAX R-068 to BASET. Thence. . . .

PEACH SPRINGS TRANSITION (PGS.BASET5): From over PGS VOR/DME via PGS R-229 and PDZ R-046 to RUSTT INT, then via LAX R-068 to BASET INT. Thence. . . .

TWENTYNINE PALMS TRANSITION (TNP.BASET5): From over TNP VORTAC via TNP R-245 and PDZ R-069 to PDZ VORTAC, then via PDZ R-277 to ARNES, then via LAX R-068 to BASET. Thence. . . .

. . . .from BASET on LAX VORTAC R-068 to cross DOWNE at or above 10000, then on LAX R-068 to cross REEDR at or above 9000.

LANDING RUNWAYS 6L/R: From REEDR on SMO VOR/DME R-097 to cross SMO at or above 8000, then on heading 251° or as assigned by ATC. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 7L/R: From REEDR on heading 213° or as assigned by ATC. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

In the event of lost communications: If landing Rwys 6L/R proceed on the ILS or LOC RWY 6R. If landing Rwys 7L/R depart REEDR heading 213° to intercept the SLI R-251 to TANDY.

SW-3, 05 NOV 2020 to 31 DEC 2020

(BAUBB.BAUBB2) 19059

BAUBB TWO ARRIVAL (RNAV)

LONG BEACH/DAUGHERTY FIELD (LGB)
LONG BEACH, CALIFORNIA

AL-236 (FAA)

ARRIVAL ROUTE DESCRIPTION

TILLT TRANSITION (TILLT.BAUBB2)

From BAUBB on track 087° to cross STYFF at or below 9000.

LANDING RUNWAY 12: From STYFF on track 078° to cross KAYNN at or below 7000, then on track 015° to cross PADDR between 3000 and 6000, then on track 009° to cross QGATE at or above 3000, then on track 332° to cross BREKE at 3000. Expect RNAV (RNP) RWY 12 approach.

LANDING RUNWAYS 26R, 30: From STYFF on track 078° to cross KAYNN at or below 7000, then on track 055° to cross LAXBB at or below 5000, then on track 055° to cross ALBAS at 4000, then on track 020° to cross EZKEL at or above 4000, then on track 020°. Expect RNAV (RNP) Y RWY 30 or RADAR vectors to final approach course.

LOST COMMUNICATIONS

RUNWAYS 26R, 30: After ALBAS proceed on the RNAV (RNP) Y RWY 30 or ILS or LOC RWY 30 approach.

RUNWAY 12: After BREKE proceed on the RNAV (RNP) RWY 12 approach.

If unable approach to LGB, after ALBAS/BREKE climb to 4000 direct SLI VORTAC and hold.

SW-3, 05 NOV 2020 to 31 DEC 2020

BAUBB TWO ARRIVAL (RNAV)
(BAUBB.BAUBB2) 28FEB19
LONG BEACH, CALIFORNIA
LONG BEACH/DAUGHERTY FIELD (LGB)

SW-3, 05 NOV 2020 to 31 DEC 2020

BAYST ONE ARRIVAL (RNAV) Transition Routes

(BAYST.BAYST1) 24MAY18

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

- BURGL TRANSITION (BURGL.BAYST1)
- CERNL TRANSITION (CERNL.BAYST1)
- FRASR TRANSITION (FRASR.BAYST1)
- HUULL TRANSITION (HUULL.BAYST1)
- MUPTT TRANSITION (MUPTT.BAYST1)
- REBRG TRANSITION (REBRG.BAYST1)
- RYDRR TRANSITION (RYDRR.BAYST1)
- SNAXX TRANSITION (SNAXX.BAYST1)

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Expect Rwy 25L unless otherwise assigned by ATC.
NOTE: CERNL TRANSITION GPS required.
NOTE: BURGL, FRASR, HUULL, SNAXX, MUPTT, REBRG, RYDRR TRANSITIONS DME/DME/IRU or GPS required.
NOTE: Do not file-to be assigned by ATC.

SOCAL APP CON
124.5 235.975
D-ATIS ARR
133.8
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1

N

REBRG
BURGL
STADD
DOUIT
CROWY
FL290
FL260
MUPTT
FL270 280K
FL230
MDOTS
FL240
FL200
GRIPR
FL230
FL190
BIKNG
FL200
16000
RUNNN
17000
14000
FRASR
IRNMN
16000
12000
SYMON
13000 250K
12000
SNAXX
FL190
GAASR
SERCO
FL210
FL190
HUULL
FL200 280K
17000
GNZZO
14000
13000
RYDRR
11000 250K
KEVVI
10000
BAYST
9000 240K
CERNL
FL190

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

See following page for Arrival Routes.

(BAYST.BAYST1) 18144

BAYST ONE ARRIVAL (RNAV) Transition Routes

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

BAYST ONE ARRIVAL (RNAV) Arrival Route

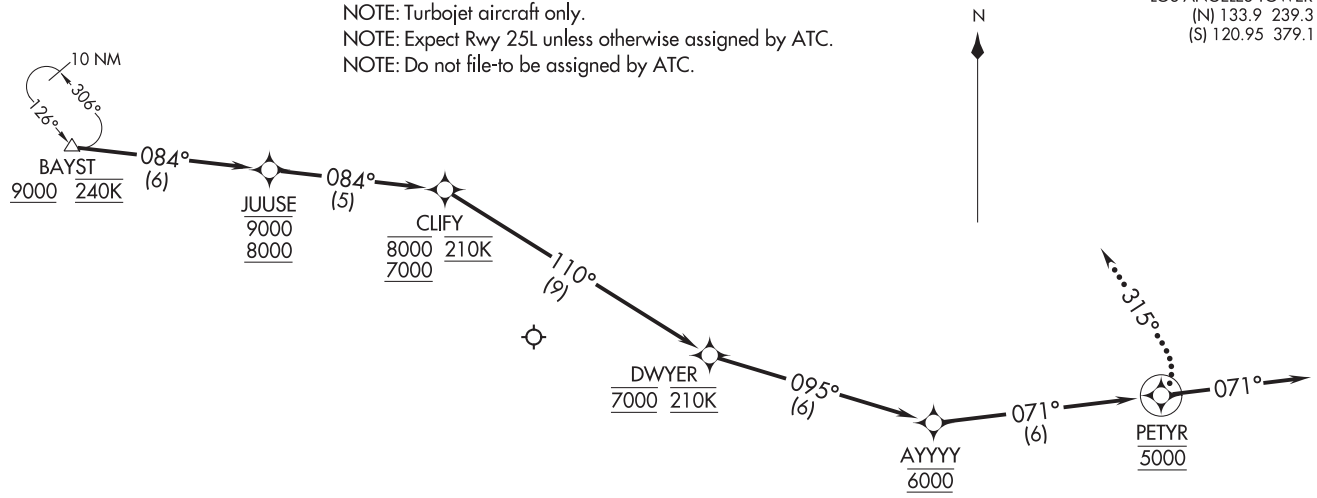
(BAYST.BAYST1) 24MAY18

LOS ANGELES, CALIFORNIA

LOS ANGELES INTL (LAX)

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Expect Rwy 25L unless otherwise assigned by ATC.
NOTE: Do not file-to be assigned by ATC.

SOCAL APP CON
124.5 235.975
D-ATIS ARR
133.8
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From BAYST on track 084° to cross JUUSE between 8000 and 9000, then on track 084° to cross CLIFY between 7000 and 8000 and at 210K, then on track 110° to cross DWYER at 7000 and at 210K, then on track 095° to cross AYYYY at 6000, then on track 071° to cross PETYR at 5000, then on track 071° or as assigned by ATC. Expect RADAR vectors to ILS or RNAV (RNP) RWY 25L final approach course.

LOST COMMUNICATIONS

After PETYR turn left heading 315° and intercept the Rwy 25L localizer, proceed on the ILS RWY 25L approach.

(BAYST.BAYST1) 18144

BAYST ONE ARRIVAL (RNAV) Arrival Route

AL-237 (FAA)

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

Z9

BIGBR THREE ARRIVAL (RNAV) Transition Routes

(ANJLL.BIGBR3) 24MAY18

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

Z10

SOCAL APP CON
124.05 353.775
D-ATIS ARR
133.8
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Los Angeles landing east traffic.
NOTE: Expect runway 7R unless otherwise assigned.
NOTE: Expect local area altimeter reaching FL230.
NOTE: CGNEY and OTOOL transitions ATC assigned only, do not file.
NOTE: SHTNR transition restricted to LAS departures only.

N

HAKMN
FL190
215°
(34)

SHTNR
035°
10 NM

FL190
214°
(30)

OTOOL
FL190
202°
(22)

DNERO
FL190
230°
(31)

SMASH
FL190
214°
(31)

FL190
260°
(54)

CGNEY

SLLRS
FL190
234°
(23)

BCALL
FL280 280K
FL240

FL190
205°
(13)

FLOJO
FL190
234°
(32)

10 NM
054°

LEMMN

FL190
232°
(11)

SALYY
FL290

17000
204°
(15)

17000
232°
(17)

GLESN
FL320
FL270

ANJLL
FL290 280K
FL240

See following page for Arrival Routes.

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

CGNEY TRANSITION (CGNEY.BIGBR3)
DNERO TRANSITION (DNERO.BIGBR3)
HAKMN TRANSITION (HAKMN.BIGBR3)
OTOOL TRANSITION (OTOOL.BIGBR3)
SHTNR TRANSITION (SHTNR.BIGBR3)

(ANJLL.BIGBR3) 18144

BIGBR THREE ARRIVAL (RNAV) Transition Routes

AL-237 (FAA)

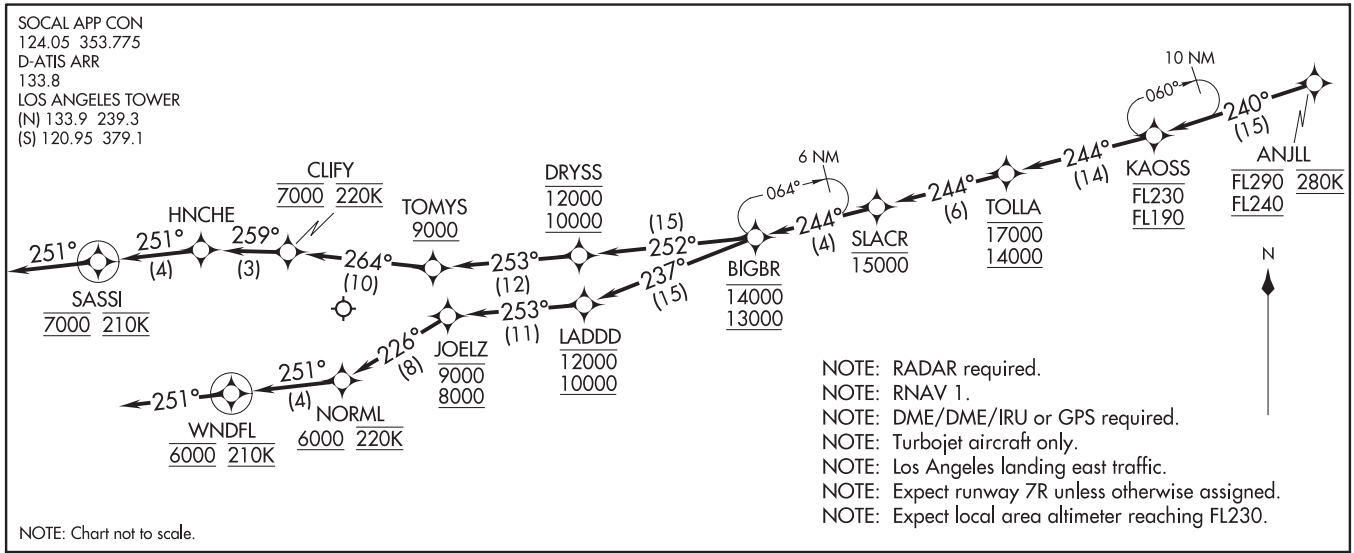
LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

BIGBR THREE ARRIVAL (RNAV) Arrival Routes

(ANJLL.BIGBR3) 24MAY18

BIGBR THREE ARRIVAL (RNAV) Arrival Routes

(ANJLL.BIGBR3) 18144



ARRIVAL ROUTE DESCRIPTION

From ANJLL on track 240° to cross KAOSS between FL190 and FL230, then on track 244° to cross TOLLA between 14000 and 17000, then on track 244° to cross SLACR at or below 15000, then on track 244° to cross BIGBR between 13000 and 14000.

LANDING RUNWAYS 6L/R: From BIGBR on track 252° to cross DRYSS between 10000 and 12000, then on track 253° to cross TOMYS at or above 9000, then on track 264° to cross CLIFY at 7000 and at 220K, then on track 259° to HNCHE, then on track 251° to cross SASSI at 7000 and at 210K, then on track 251°. Expect RADAR vectors to ILS or RNAV (RNP) RWY 6L final approach course.

LANDING RUNWAYS 7L/R: From BIGBR on track 237° to cross LADDD between 10000 and 12000, then on track 253° to cross JOELZ between 8000 and 9000, then on track 226° to cross NORML at or above 6000 and at 220K, then on track 251° to cross WNDFL at 6000 and at 210K, then on track 251°. Expect RADAR vectors to ILS or RNAV (RNP) RWY 7R final approach course.

LOST COMMUNICATIONS: In the event of lost communication proceed on the RNAV (RNP) RWY 7R or ILS or LOC RWY 7R approach.

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

BOGET TWO ARRIVAL (RNAV)

(BOGET.BOGET2) 19JUL18

LOS ANGELES, CALIFORNIA

BOGET TWO ARRIVAL (RNAV)

(BOGET.BOGET2) 20198

LOS ANGELES, CALIFORNIA

AL-237 (FAA)

Z12

SOCAL APP CON
135.05 317.5
LAX D-ATIS ARR
133.8
SMO ATIS
119.15
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SANTA MONICA TOWER ★
120.1 257.8

N

PURSE
WELUM
WNCHL
NIPIY
GLAZD
KREME
FL240
COOOP
TAAAP
BUGGA
NEEDLES
EED
COWWS
SNTRA
FL190
KOPLE
14000
ROPEZ
13000
11000
DNUTT
FL230
JOEES
FL240
BASAL
JOHNN
FL220
DYVER
FL190
CHKNZ
BOGET
8000
MEETT
7500
WATSS
6900
UPDOC
6000
Ldg KLAX and KSMO
SANTA MONICA MUNI
LOS ANGELES INTL

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Landing LAX expect Rwy 24R unless otherwise assigned by ATC.
NOTE: Landing SMO expect Rwy 21 unless otherwise assigned by ATC.
NOTE: This procedure NA for turbojets landing LAX.
NOTE: KREME transition restricted to KLAS departures only.
NOTE: WNCHL transition ATC assigned only-do not file.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

BUGGA TRANSITION (BUGGA.BOGET2)
NEEDLES TRANSITION (EED.BOGET2)
KREME TRANSITION (KREME.BOGET2)
PURSE TRANSITION (PURSE.BOGET2)
WELUM TRANSITION (WELUM.BOGET2)
WNCHL TRANSITION (WNCHL.BOGET2)

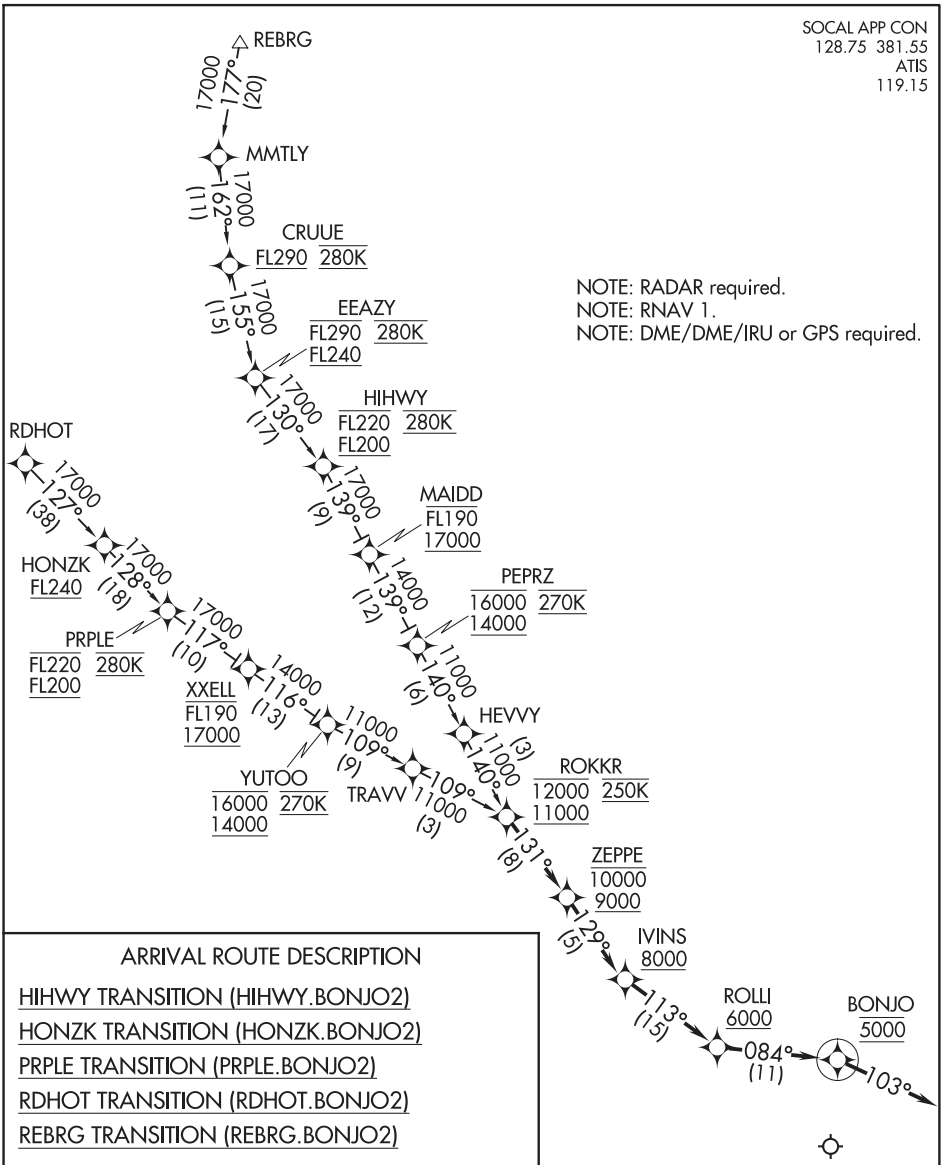
LANDING KLAX/KSMO: From BOGET on track 183° to cross MEETT at or above 7500, then on track 173° to cross WATSS at or above 6900, then on track 157° to cross UPDOC at 6000, then on track 140°. Expect RADAR vectors to final approach course.

(ROKKR.BONJO2) 18032

BONJO TWO ARRIVAL (RNAV)

AL-5023 (FAA)

SANTA MONICA MUNI (SMO)
SANTA MONICA, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

HIHWY TRANSITION (HIHWY.BONJO2)
HONZK TRANSITION (HONZK.BONJO2)
PRPLE TRANSITION (PRPLE.BONJO2)
RDHOT TRANSITION (RDHOT.BONJO2)
REBRG TRANSITION (REBRG.BONJO2)

From ROKKR on track 131° to cross ZEPPE between 9000 and 10000, then on track 129° to cross IVINS at or above 8000, then on track 113° to cross ROLLI at or above 6000, then on track 084° to cross BONJO at 5000, then on track 103°. Expect RADAR vectors to final approach course.

NOTE: Chart not to scale.

BONJO TWO ARRIVAL (RNAV)
(ROKKR.BONJO2) 01FEB18

SANTA MONICA, CALIFORNIA
SANTA MONICA MUNI (SMO)

SW-3, 05 NOV 2020 to 31 DEC 2020

BRUEN TWO ARRIVAL (RNAV) Transition Routes

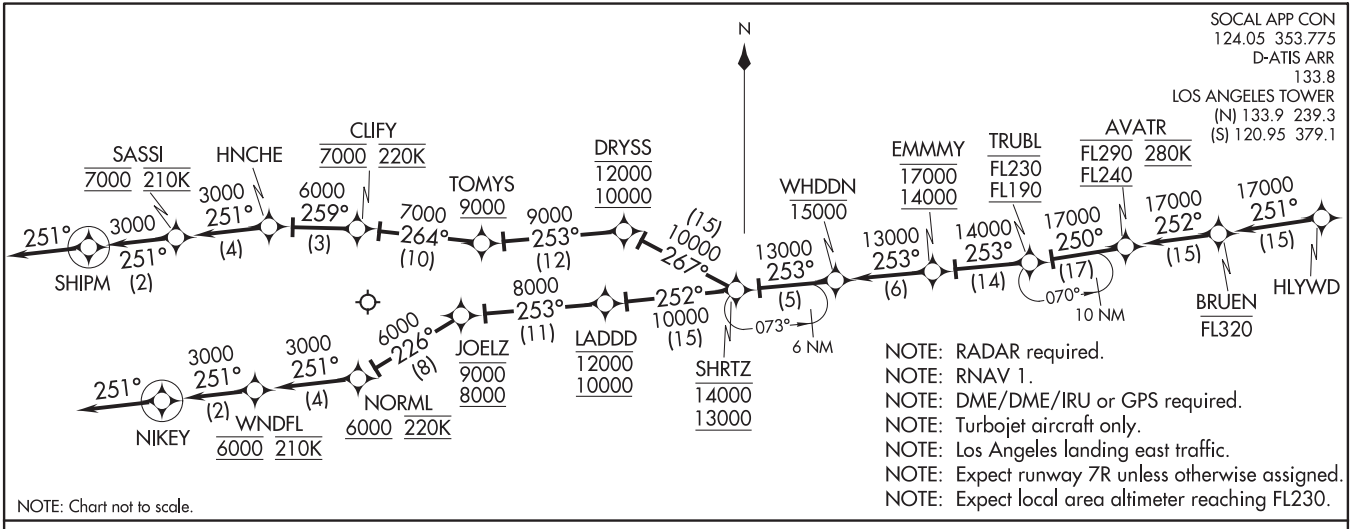
(CONTINUED ON FOLLOWING PAGE)

SW-3, 05 NOV 2020 to 31 DEC 2020

BRUEN TWO ARRIVAL (RNAV) Arrival Routes

(HLYWD.BRUEN2) 120CT17

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)



ARRIVAL ROUTE DESCRIPTION

From HLYWD on track 251° to cross BRUEN at or below FL320, then on track 252° to cross AVATR between FL240 and FL290 and at 280K, then on track 250° to cross TRUBL between FL190 and FL230, then on track 253° to cross EMMMY between 14000 and 17000, then on track 253° to cross WHDDN at or below 15000, then on track 253° to cross SHRTZ between 13000 and 14000.

LANDING RUNWAYS 6L/R: From SHRTZ on track 267° to cross DRYSS between 10000 and 12000, then on track 253° to cross TOMYS at or above 9000, then on track 264° to cross CLIFY at 7000 and at 220K, then on track 259° to HNCHE, then on track 251° to cross SASSI at 7000 and at 210K, then on track 251° to SHIPM, then on track 251°. Expect RADAR vectors to ILS or RNAV (RNP) RWY 6L final approach course.

LANDING RUNWAYS 7L/R: From SHRTZ on track 252° to cross LADDD between 10000 and 12000, then on track 253° to cross JOELZ between 8000 and 9000, then on track 226° to cross NORML at or above 6000 and at 220K, then on track 251° to cross WNDFL at 6000 and at 210K, then on track 251° to NIKEY, then on track 251°. Expect RADAR vectors to ILS or RNAV (RNP) RWY 7R final approach course.

LOST COMMUNICATIONS: In the event of lost communication proceed on the RNAV (RNP) RWY 7R or ILS or LOC RWY 7R approach.

BRUEN TWO ARRIVAL (RNAV) Arrival Routes
(HLYWD.BRUEN2) 17285
LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

AL-237 (FAA)

CHASR TWO ARRIVAL (RNAV)

(TOPGN.CHASR2) 07DEC17

SAN DIEGO, CALIFORNIA

SOCAL APP CON
124.35 279.625
KNZY ATIS ★
317.8
SDM ATIS
132.35

ARRIVAL ROUTE DESCRIPTION

IMPERIAL TRANSITION (IPL.CHASR2)
MOMAR TRANSITION (MOMAR.CHASR2)
PARKER TRANSITION (PKE.CHASR2)
TTRUE TRANSITION (TTRUE.CHASR2)

NZY/SDM: From TOPGN on track 249° to cross CHASR at 6400, then on track 250°. Expect RADAR vectors to final approach course.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Descend via mach number until intercepting 270K. Maintain 270K until slowed by the STAR or assigned by ATC.

TTRUE
FL190 215° (26)
LINNE
FL190 215° (33)
SRRFR
FL190 215° (25)
TRRSH
(8) FL190 214°
228° (13) FL190
WBERG
FL190 228° (30)
LNDON
FL190 228° (18)
PARKER PKE
LVELL
SHADI
FL190 221° (11)
MOMAR
FL260
FL240
FL190 221° (19)
DSURT
FL230
FL190
041° 10 NM
12000 192° (22)
TRIXI
14000 270K
12000
8500 183° (14)
RIPPL
8500
7300 183° (9)
HAILE
NORTH ISLAND NAS (HALSEY FIELD)
CHASR
6400
LUGJA
BROWN FIELD MUNI
250°
249° (9)
TOPGN
7300
6400 246° (8)
GUUSE
12000
10000
10000 250° (20)
BLUZE
FL190
17000
17000 250° (27)
IMPERIAL
IPL
FL260
FL240
10 NM
076°
256°
N

NOTE: Chart not to scale.

(TOPGN.CHASR2) 20198

CHASR TWO ARRIVAL (RNAV)

AL-5814 (FAA)

SAN DIEGO, CALIFORNIA

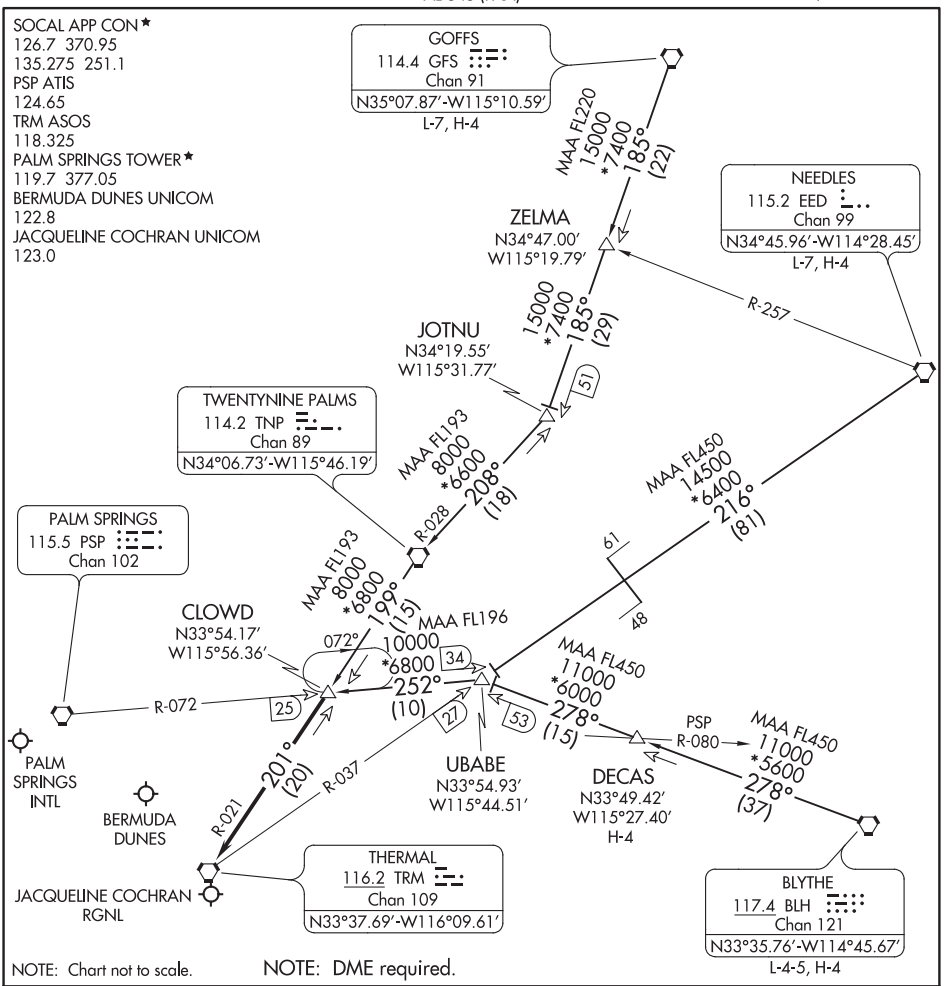
Z16

(CLOWD.CLOWD1) 20310

CLOWD ONE ARRIVAL

AL-545 (FAA)

PALM SPRINGS, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

BLYTHE TRANSITION (BLH.CLOWD1): From over BLH VORTAC on BLH R-278 and PSP R-072 to CLOWD DME. Thence. . . .

DECAS TRANSITION (DECAS.CLOWD1): From over DECAS INT on BLH R-278 and PSP R-072 to CLOWD DME. Thence. . . .

GOFFS TRANSITION (GFS.CLOWD1): From over GFS VORTAC on GFS R-185 and TNP R-028 to TNP VORTAC, then on TNP R-199 to CLOWD DME. Thence. . . .

NEEDLES TRANSITION (EED.CLOWD1): From over EED VORTAC on EED R-216 and TRM R-037 to UBABE DME, then on PSP R-072 to CLOWD DME. Thence. . . .

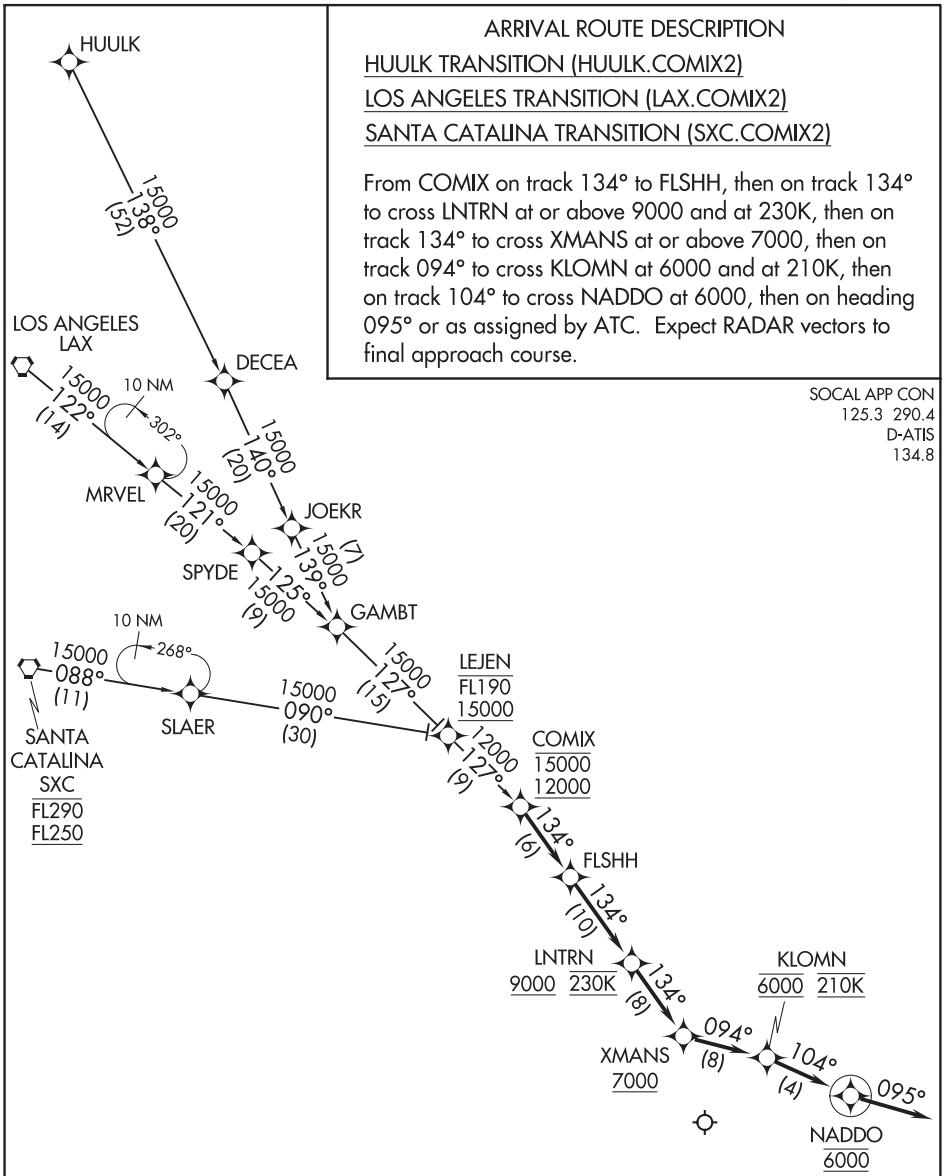
. . . .From over CLOWD DME on TRM R-021 to TRM VORTAC. Expect RADAR vectors to final approach course.

CLOWD ONE ARRIVAL

PALM SPRINGS, CALIFORNIA

(CLOWD.CLOWD1) 12MAY05

SW-3, 05 NOV 2020 to 31 DEC 2020



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

DIRBY ONE ARRIVAL (RNAV)

(DIRBY.DIRBY1) 22JUN17

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

(DIRBY.DIRBY1) 17173
DIRBY ONE ARRIVAL (RNAV)
LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

AL-237 (FAA)

Z19

D-ATIS ARR 133.8
SOCAL APP CON 127.4 387.025
LOS ANGELES TOWER 133.9 239.3 (N) 120.95 379.1 (S)

ARRIVAL ROUTE DESCRIPTION

RDHOT TRANSITION (RDHOT.DIRBY1)

TILLT TRANSITION (TILLT.DIRBY1)

From DIRBY on track 082° to cross PHUNN at or below 14000, then on track 034° to cross SHHOW at or below 12000, then on track 346° to cross ZAPPP at or above 9000, then on track 346° to cross BUFIE at or below 8000, then on track 332° to cross SLI VORTAC at 7000 and at 210K, then on track 326° to cross TRNDO at 5000 and at 210K. Expect RADAR vectors to ILS or RNAV (RNP) Z RWY 25L final approach course.

LOST COMMUNICATIONS

In the event of lost communications: RNP arrivals proceed on the RNAV (RNP) Z RWY 25L approach. All other aircraft proceed on the ILS or LOC RWY 25L.

TILLT
RDHOT
ZIPRR
WURLL
TCUPS
FL260
RUKKI
FL210
BAUBB
FL210 280K
FL190
DIRBY
FL190 280K
16000
PHUNN
14000
SHHOW
12000
ZAPPP
9000
BUFIE
8000
SLI
SEAL BEACH
7000 210K
TRNDO
5000 210K

17000 126° (33)
17000 164° (54)
17000 134° (25)
17000 134° (44)
17000 109° (21)
17000 109° (38)
16000 118° (21)
082° (18)
034° (7)
346° (11)
346° (4)
332° (8)
326° (7)

N

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: ATC assigned only, do not file.
NOTE: Expect runway 25L unless otherwise assigned by ATC.
NOTE: Non RNP AR aircraft expect RADAR vector to final approach course after SLI VORTAC.

NOTE: Chart not to scale.

DSNEE FOUR ARRIVAL (RNAV) Transition Routes

LONG BEACH, CALIFORNIA

DSNEE FOUR ARRIVAL (RNAV) Transition Routes
LONG BEACH, CALIFORNIA

ARRIVAL ROUTE DESCRIPTION

LANDING KLGB RUNWAY 12: From DSNEE on track 236° to cross MCKYE at or above 7200, then on track 236° to cross MOUSS at or above 6500, then on track 236° to cross GOOFY at 4000, then on track 237° to cross PIBBB at 4000, then on track 256° to LUVCI, then on track 269° to cross QGATE at or above 3000, then on track 332° to cross BREKE at 3000. Expect RNAV (RNP) RWY 12 approach.

LANDING KLGB RUNWAYS 26R, 30: From DSNEE on track 236° to cross MCKYE at or above 7200, then on track 236° to cross MOUSS at or above 6500, then on track 236° to cross GOOFY at 4000, then on track 236° to cross MIDDS at 4000, then on track 236° Expect ILS or RNAV (RNP) RWY 30 approach, or RNAV (RNP) RWY 26R approach.

LANDING KSNA: From DSNEE on track 235° to cross JWARD at 7600, then on heading 260° or as assigned by ATC. Expect RADAR vectors to ILS or RNAV (RNP) RWY 20R final approach course.

LOST COMMUNICATIONS: In the event of lost communications:

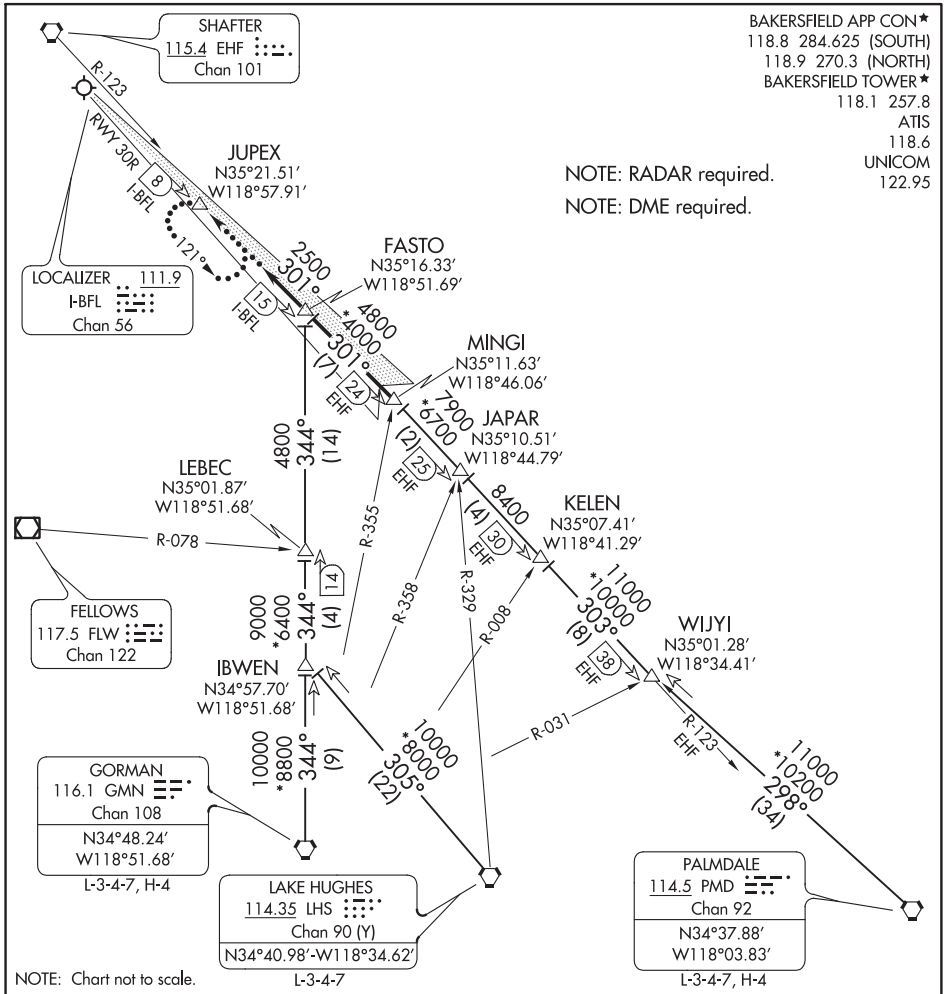
LANDING LGB RUNWAYS 26R, 30: After MIDDS proceed on the RNAV (RNP) RWY 30 or ILS RWY 30 approach.

LANDING LGB RUNWAY 12: After BREKE proceed on the RNAV (RNP) RWY 12 approach, if unable approach, after MIDDS/BREKE climb to 4000 direct SLI VORTAC and hold.

LANDING SNA RUNWAY 20R: After DSNEE proceed on the RNAV (RNP) RWY 20R approach. If unable approach, after DSNEE maintain 6000 direct SLI VORTAC and hold.

FASTO TWO ARRIVAL

AL-36 (FAA)



ARRIVAL ROUTE DESCRIPTION

GORMAN TRANSITION (GMN.FASTO2): From over GMN VORTAC on GMN R-344 to FASTO INT. Thence . . . .

LAKE HUGHES TRANSITION (LHS.FASTO2): From over LHS VORTAC on LHS R-305 and GMN R-344 to FASTO INT. Thence . . . .

PALMDALE TRANSITION (PMD.FASTO2): From over PMD VORTAC on PMD R-298 and EHF R-123 to MINGI INT, then on I-BFL LOC course to FASTO INT. Thence . . . .

. . . . From over FASTO INT on the I-BFL Localizer for the ILS or LOC RWY 30R procedure.

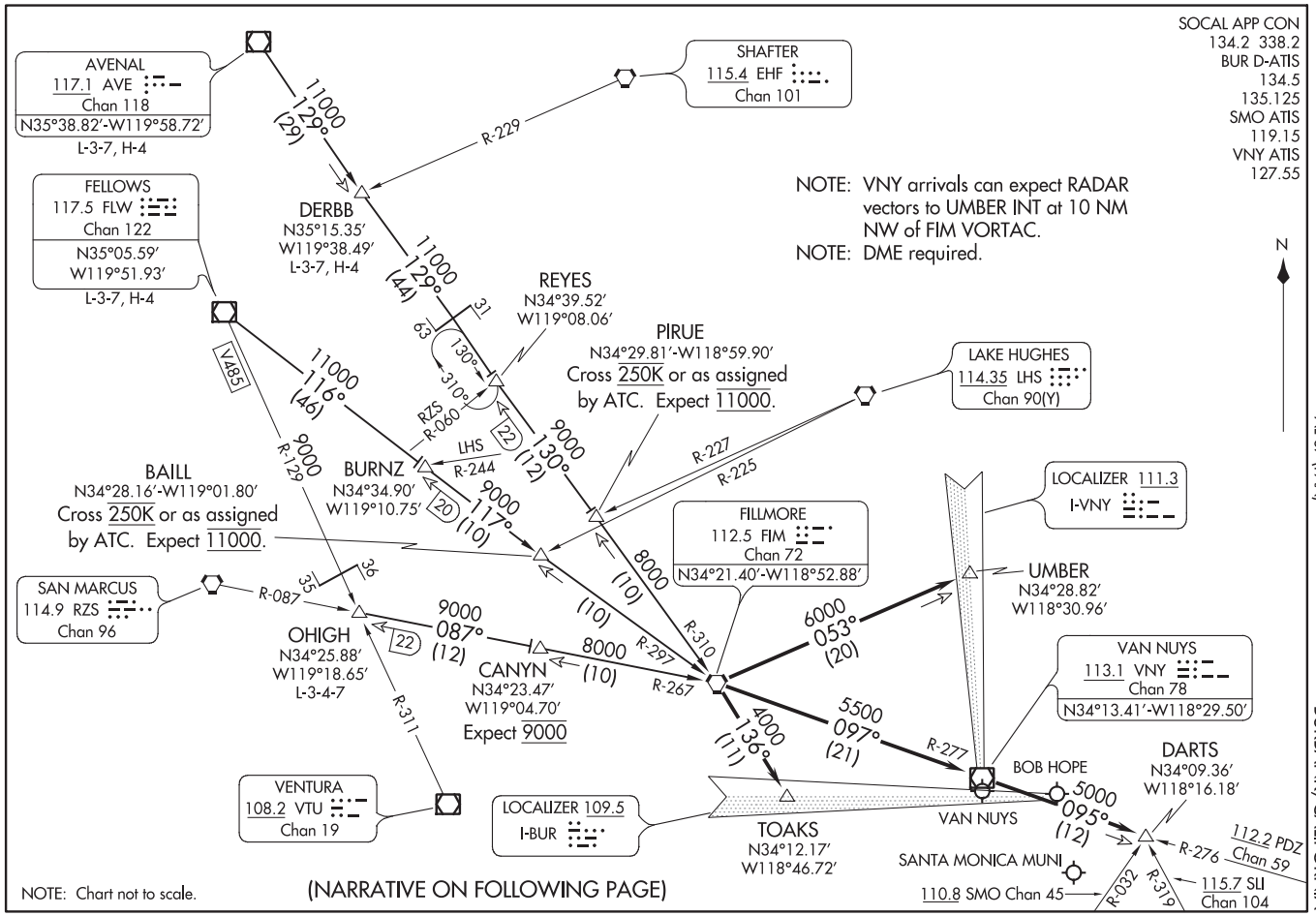
LOST COMMUNICATIONS: From FASTO INT direct to JUPEX INT maintain 2500; intercept and execute ILS or LOC RWY 30R approach. If unable, proceed to JUPEX INT and hold and maintain 2500.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

FERNANDO SEVEN ARRIVAL

(FIM.FERN7) 10NOV16

BURBANK, CALIFORNIA



FERNANDO SEVEN ARRIVAL

(FIM.FERN7) 20310

BURBANK, CALIFORNIA

AL-67 (FAA)

Z23

ARRIVAL ROUTE DESCRIPTION

AVENAL TRANSITION (AVE.FERN7): From over AVE VOR/DME on AVE R-129 and FIM R-310 to FIM VORTAC. Thence. . . .

DERBB TRANSITION (DERBB.FERN7): From over DERBB INT on AVE R-129 and FIM R-310 to FIM VORTAC. Thence. . . .

FELLOWS TRANSITION (FLW.FERN7): From over FLW VOR/DME on FLW R-116 and FIM R-297 to FIM VORTAC. Thence. . . .

OHIGH TRANSITION (OHIGH.FERN7): From over OHIGH INT on FIM R-267 to FIM VORTAC. Thence. . . .

. . . .From over FIM VORTAC:

LANDING VAN NUYS RWY 16: Via FIM R-053 to UMBER INT, then via I-VNY localizer. Expect ILS RWY 16R.

LANDING VAN NUYS RWY 34: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect LDA-C; circle to land Rwy 34L.

LANDING BOB HOPE: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect ILS RWY 8.

LANDING SANTA MONICA MUNI: Via FIM R-097 and VNY R-277 to VNY then via VNY R-095 to DARTS INT. Expect VOR-A approach.

SW-3, 05 NOV 2020 to 31 DEC 2020

(GLRNO.GLRNO2) 17341

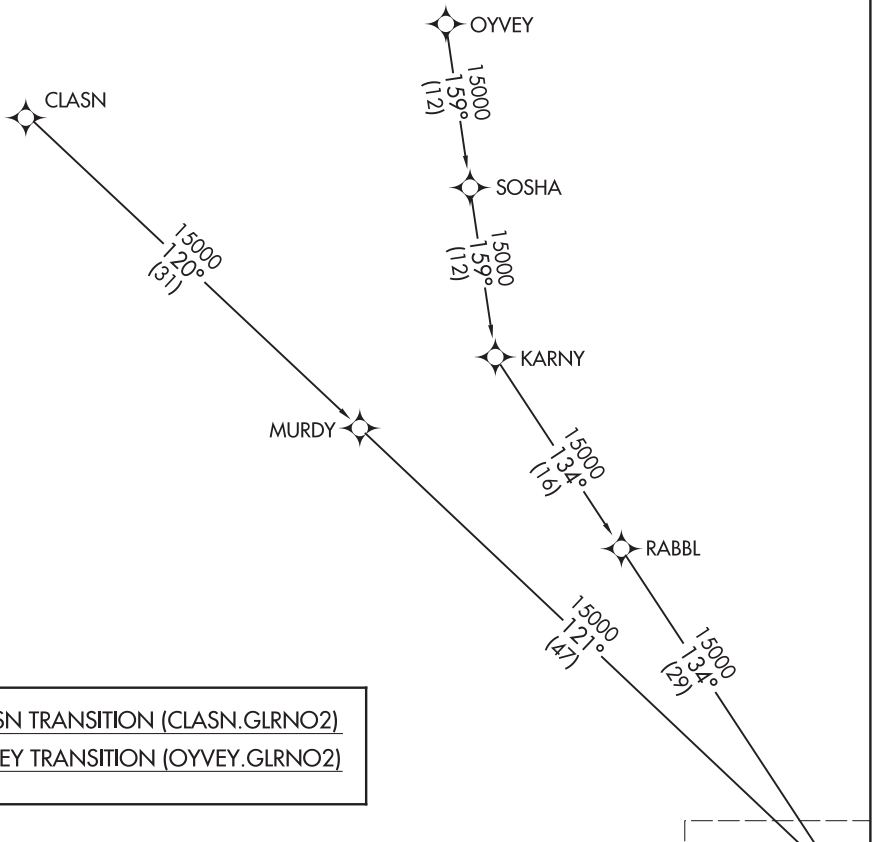
GLRNO TWO ARRIVAL (RNAV) Transition Routes

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

SOCAL APP CON
127.0 318.2
D-ATIS
124.25
ONTARIO TOWER
120.6 360.775

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Expect Rwy 26L unless otherwise assigned by ATC.
NOTE: Expect local area altimeter reaching FL200.



CLASN TRANSITION (CLASN.GLRNO2)
OYVEY TRANSITION (OYVEY.GLRNO2)

NOTE: Chart not to scale.

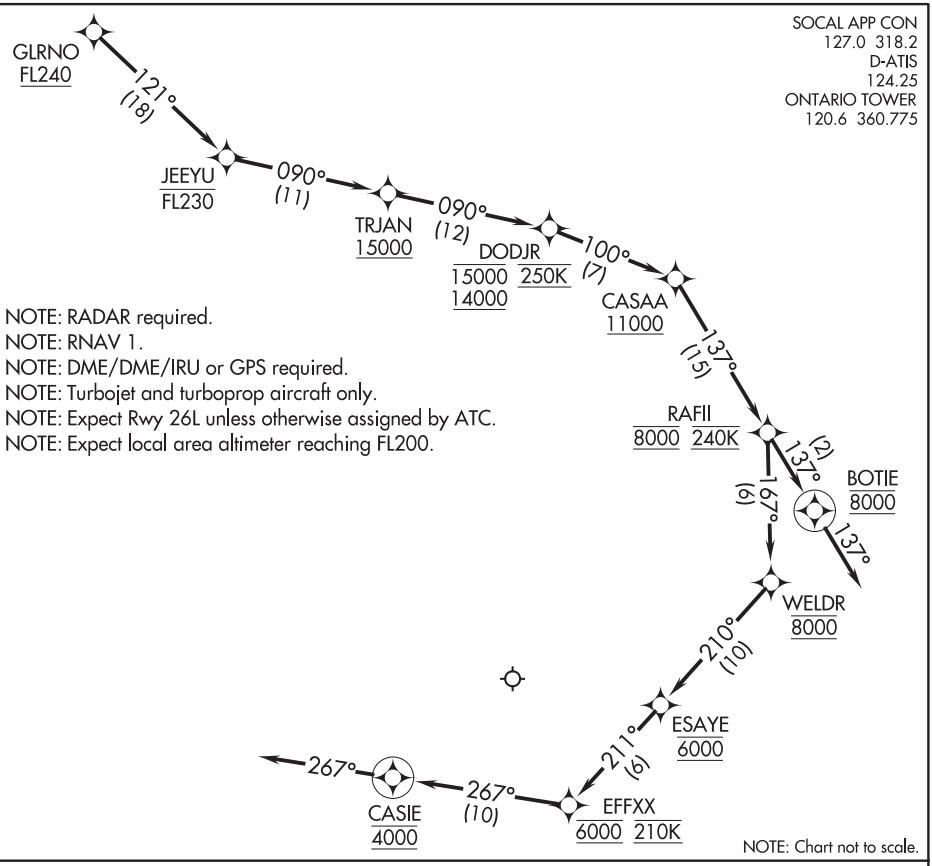
(CONTINUED ON FOLLOWING PAGE)

GLRNO TWO ARRIVAL (RNAV) Transition Routes

ONTARIO, CALIFORNIA
ONTARIO INTL (ONT)

(GLRNO.GLRNO2) 12OCT17

SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

From GLRNO on track 121° to cross JEEYU at or below FL230, then on track 090° to cross TRJAN at or above 15000, then on track 090° to cross DODJR between 14000 and 15000 and at 250K, then on track 100° to cross CASAA at or above 11000, then on track 137° to cross RAFII at 8000 and at 240K.

LANDING RUNWAYS 8L/R: From RAFII on track 167° to cross WELDR at 8000, then on track 210° to cross ESAYE at 6000, then on track 211° to cross EFFXX at 6000 and at 210K, then on track 267° to cross CASIE at 4000, then on track 267°. Expect RNAV (RNP) Z RWY 8L approach or RADAR vectors to final approach course.

LANDING RUNWAYS 26L/R: From RAFII on track 137° to cross BOTIE at 8000, then on track 137°. Expect RNAV (RNP) Z RWY 26L or RADAR vectors to final approach course.

LOST COMMUNICATIONS
LANDING WEST: Proceed on the RNAV (RNP) Z RWY 26L approach.
LANDING EAST: Proceed on the RNAV (RNP) Z RWY 8L approach.

(GOATZ .GOATZ1) 17117

GOATZ ONE ARRIVAL (RNAV)

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

SOCAL APP CON
127.4 263.025
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1

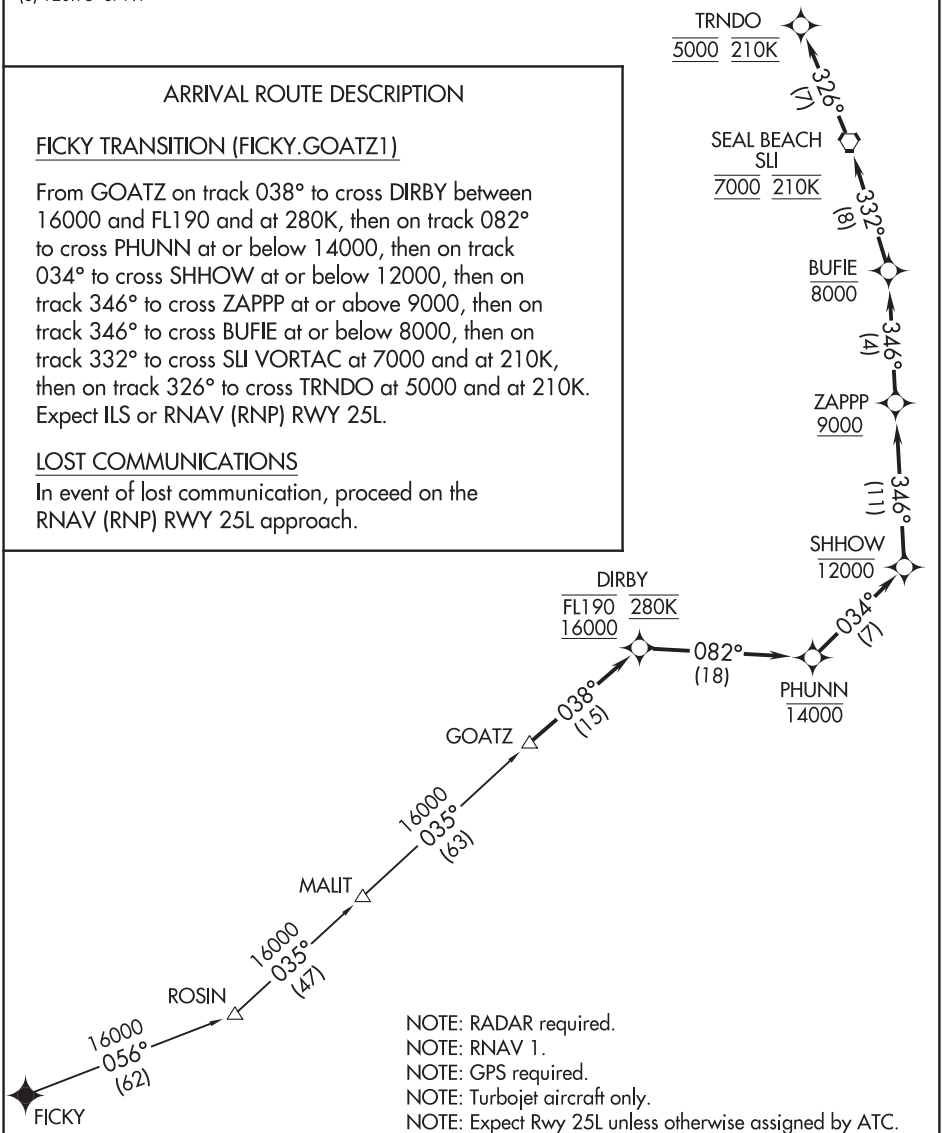
ARRIVAL ROUTE DESCRIPTION

FICKY TRANSITION (FICKY.GOATZ1)

From GOATZ on track 038° to cross DIRBY between 16000 and FL190 and at 280K, then on track 082° to cross PHUNN at or below 14000, then on track 034° to cross SHHOW at or below 12000, then on track 346° to cross ZAPPP at or above 9000, then on track 346° to cross BUFIE at or below 8000, then on track 332° to cross SLI VORTAC at 7000 and at 210K, then on track 326° to cross TRNDO at 5000 and at 210K. Expect ILS or RNAV (RNP) RWY 25L.

LOST COMMUNICATIONS

In event of lost communication, proceed on the RNAV (RNP) RWY 25L approach.



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GPS required.
NOTE: Turbojet aircraft only.
NOTE: Expect Rwy 25L unless otherwise assigned by ATC.
NOTE: Non RNP-AR aircraft expect RADAR vectors to final approach course upon reaching SLI VORTAC.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

GUERA TWO ARRIVAL (RNAV) Transition Routes

(GUERA.GUERA2) 19JUL18

OXNARD, CALIFORNIA

(GUERA.GUERA2) 20198

GUERA TWO ARRIVAL (RNAV) Transition Routes

OXNARD, CALIFORNIA

AL-674 (FAA)

Z28

SOCAL APP CON
120.4 360.6
CMA ATIS
126.025
KNTD ATIS★
125.55 363.05
OXR ATIS
118.05
CAMARILLO TOWER★
128.2 269.4
OXNARD TOWER★
134.95 257.8
POINT MUGU TOWER★
124.85 290.375 340.2

N

GUERA
5900
232°
(12)
ALYSN
7100
7100
232°
(7)
JANNY
8000
8000
243°
(15)
PALMDALE
PMD
13000
KOPLE
14000
8000
251°
(10)
COWWS
(12)
13000
243°
SNTRA
FL190
(8)
13000
243°
CHKNZ
251°
13000
(12)
DYVER
FL190
251°
13000
(8)
BASAL
251°
13000
(30)
JOHHN
FL220
251°
13000
(8)
DNUTT
FL230
251°
13000
(7)
JOEES
FL240
256°
13000
(16)
KREME
FL240
(18)
13000
233°
GLAZD
(58)
13000
244°
WNCHL
(7)
13000
244°
NIPIY
(24)
13000
226°
PURSE
(41)
16000
216°
WELUM
239°
16000
(46)
TAAAP
(21)
16000
259°
(42)
COOOP
16000
259°
(42)
16000
260°
(25)
NEEDLES
EED
269°
16000
(26)
BUGGA
13000
(38)
For Needles
Transition only

See following page for Arrival Routes.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: KREME TRANSITION restricted to KLAS departures only.
NOTE: WNCHL TRANSITION ATC assigned only.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

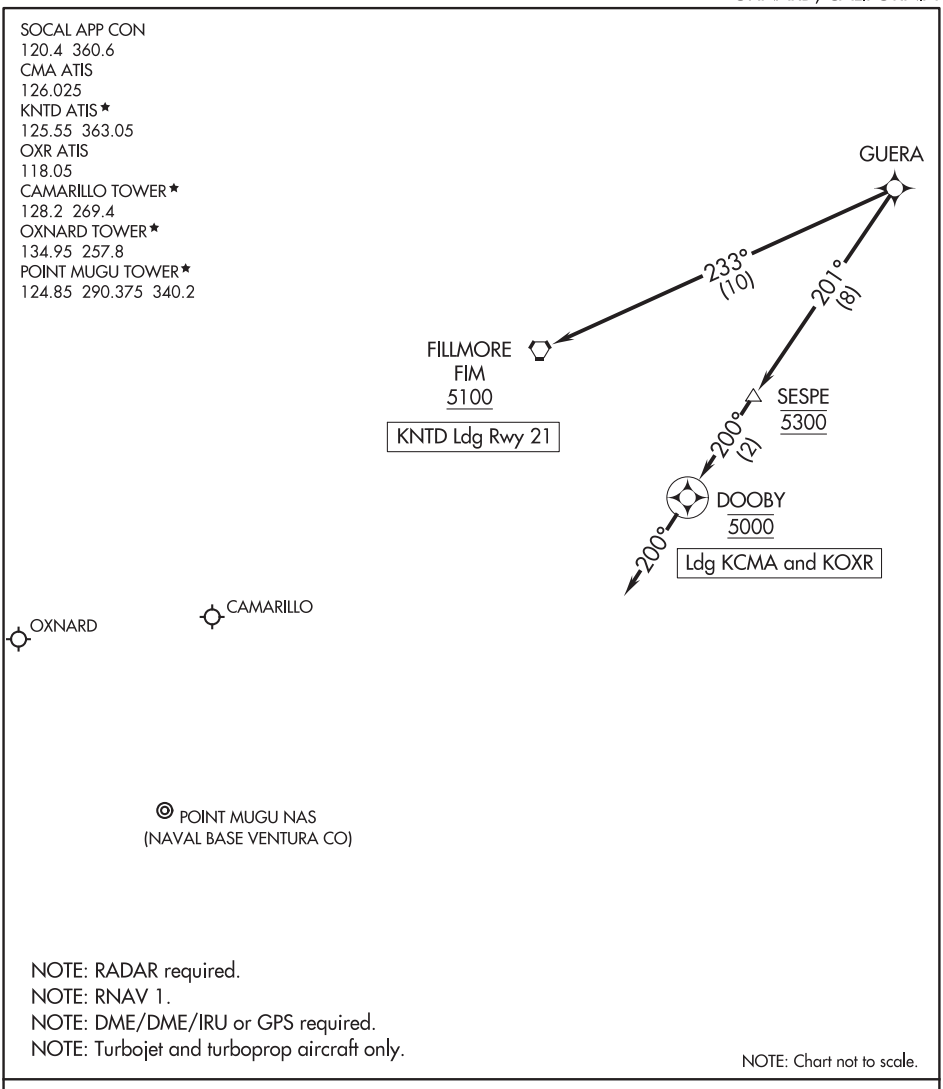
BUGGA TRANSITION (BUGGA.GUERA2)
KREME TRANSITION (KREME.GUERA2)
NEEDLES TRANSITION (EED.GUERA2)
PURSE TRANSITION (PURSE.GUERA2)
WELUM TRANSITION (WELUM.GUERA2)
WNCHL TRANSITION (WNCHL.GUERA2)

(GUERA.GUERA2) 20198

AL-674 (FAA)

GUERA TWO ARRIVAL (RNAV) Arrival Routes

OXNARD, CALIFORNIA



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

LANDING KNTD RWY 21: From GUERA on track 233° to FIM VORTAC at or above 5100. Expect ILS Y or LOC/DME RWY 21 approach.

LANDING KOXR/KCMA: From GUERA on track 201° to cross SESPE at 5300, then on track 200° to cross DOOBY at 5000, then on track 200°. Expect RADAR vectors to final approach course.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

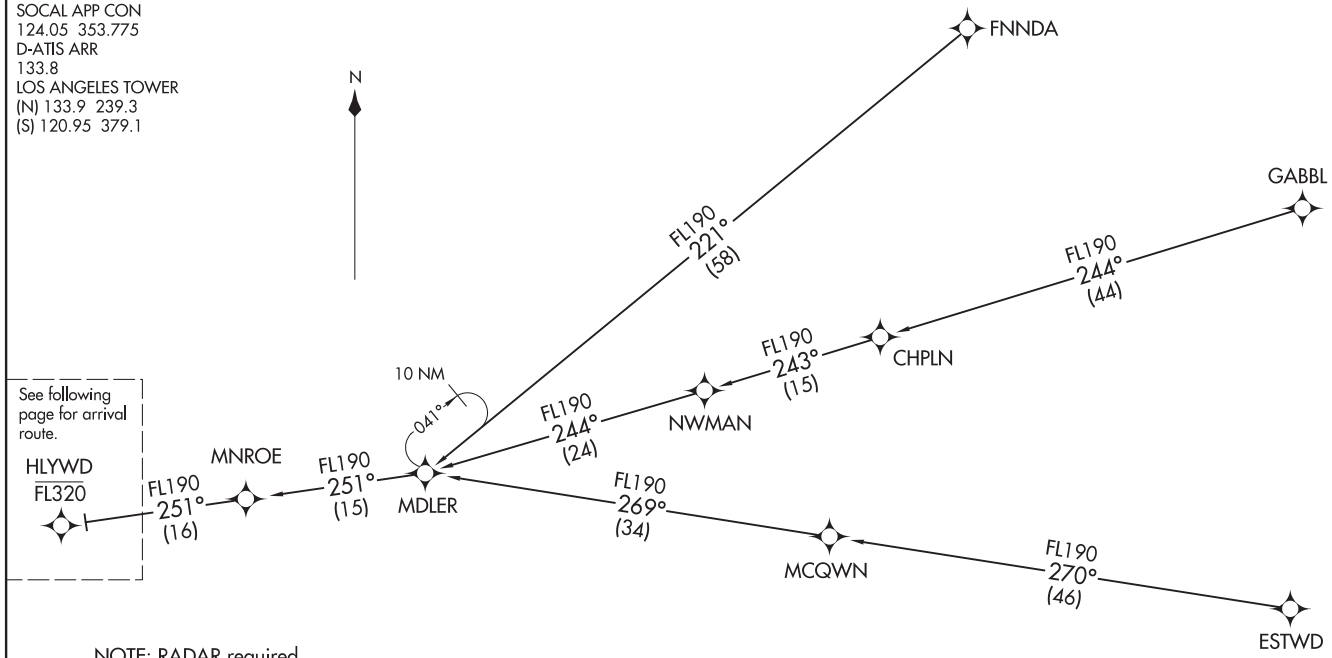
HLYWD ONE ARRIVAL (RNAV) Transition Routes

(HLYWD.HLYWD1) 02MAR17

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

Z30

SOCAL APP CON
124.05 353.775
D-ATIS ARR
133.8
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Los Angeles landing west traffic.
NOTE: Expect runway 25L unless otherwise assigned by ATC.
NOTE: Expect local area altimeter reaching FL230.
NOTE: MDLER transition ATC only, do not file.

NOTE: Chart not to scale.

(CONTINTUED ON FOLLOWING PAGE)

ESTWD TRANSITION (ESTWD.HLYWD1)
FNNDA TRANSITION (FNNDA.HLYWD1)
GABBL TRANSITION (GABBL.HLYWD1)
MDLER TRANSITION (MDLER.HLYWD1)

HLYWD ONE ARRIVAL (RNAV) Transition Routes

(HLYWD.HLYWD1) 17117

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

(HLYWD.HLYWD1) 17117

AL-237 (FAA)

HLYWD ONE ARRIVAL (RNAV) Arrival Routes

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Los Angeles landing west traffic.
NOTE: Expect runway 25L unless otherwise assigned by ATC.
NOTE: Expect local area altimeter reaching FL230.

NOTE: Chart not to scale.

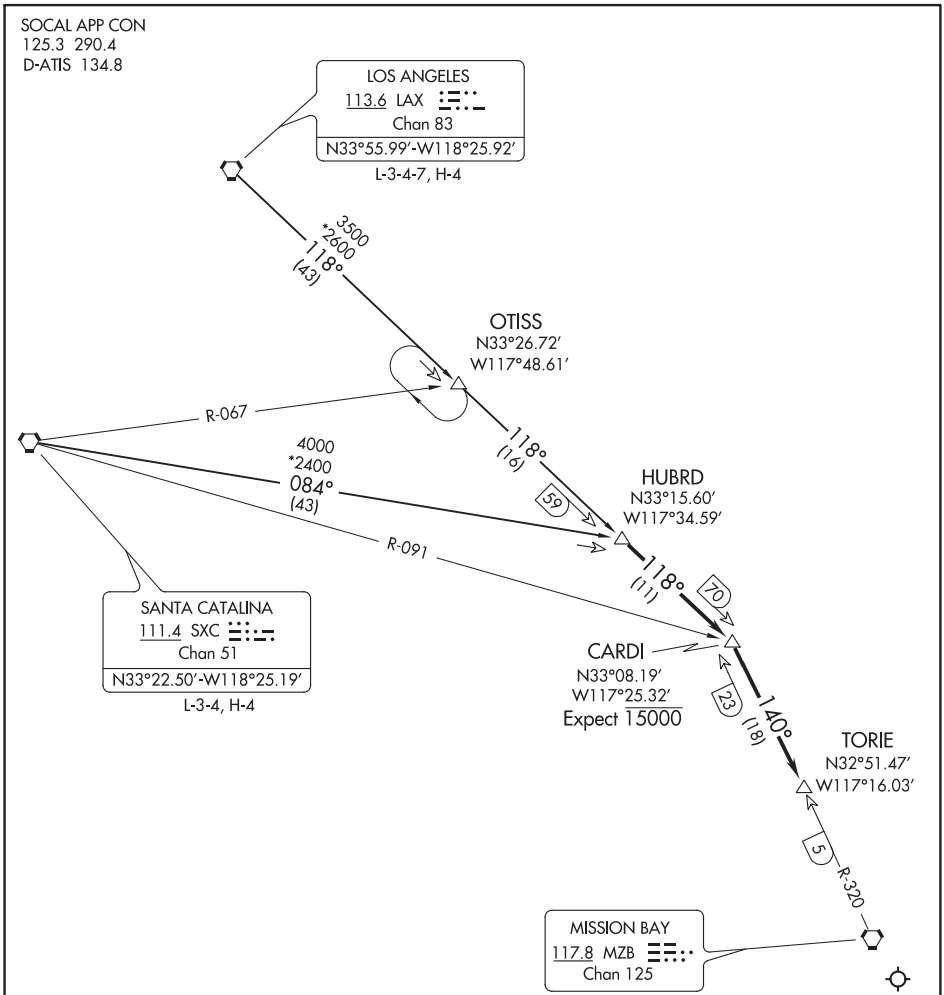
ARRIVAL ROUTE DESCRIPTION

From HLYWD on track 251° to cross BRUEN between FL240 and FL300 and at 280K, then on track 252° to cross AVATR between FL190 and FL240, then on track 249° to cross DAAAY at or above 17000, then on track 250° to cross WADUP at or above 15000, then on track 250° to cross NEILE at or above 14000, then on track 250° to cross SEAVU between 12000 and 14000 and at 270K. Expect ILS or RNAV (RNP) RWY 25L approach.

LOST COMMUNICATIONS: In the event of lost communication prior to runway assignment proceed on ILS or LOC RWY 25L.

SW-3, 05 NOV 2020 to 31 DEC 2020

HLYWD ONE ARRIVAL (RNAV) Arrival Routes
(HLYWD.HLYWD1) 02MAR17
LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

LOS ANGELES TRANSITION (LAX.HUBRD1): From over LAX VORTAC on LAX R-118 to OTISS INT, then onLAX R-118 to HUBRD INT. Thence . . . .

SANTA CATALINA TRANSITION (SXC.HUBRD1): From over SXC VORTAC on SXC R-084 to HUBRD INT. Thence . . . .

. . . . From over HUBRD INT via LAX R-118 to CARDI FIX via MZB R-320 to TORIE FIX. Expect vector to final approach course.

HUULL TWO ARRIVAL (RNAV)

(HUULL.HUULL2) 24MAY18

LOS ANGELES, CALIFORNIA

LOS ANGELES INTL (LAX)

(HUULL.HUULL2) 18144

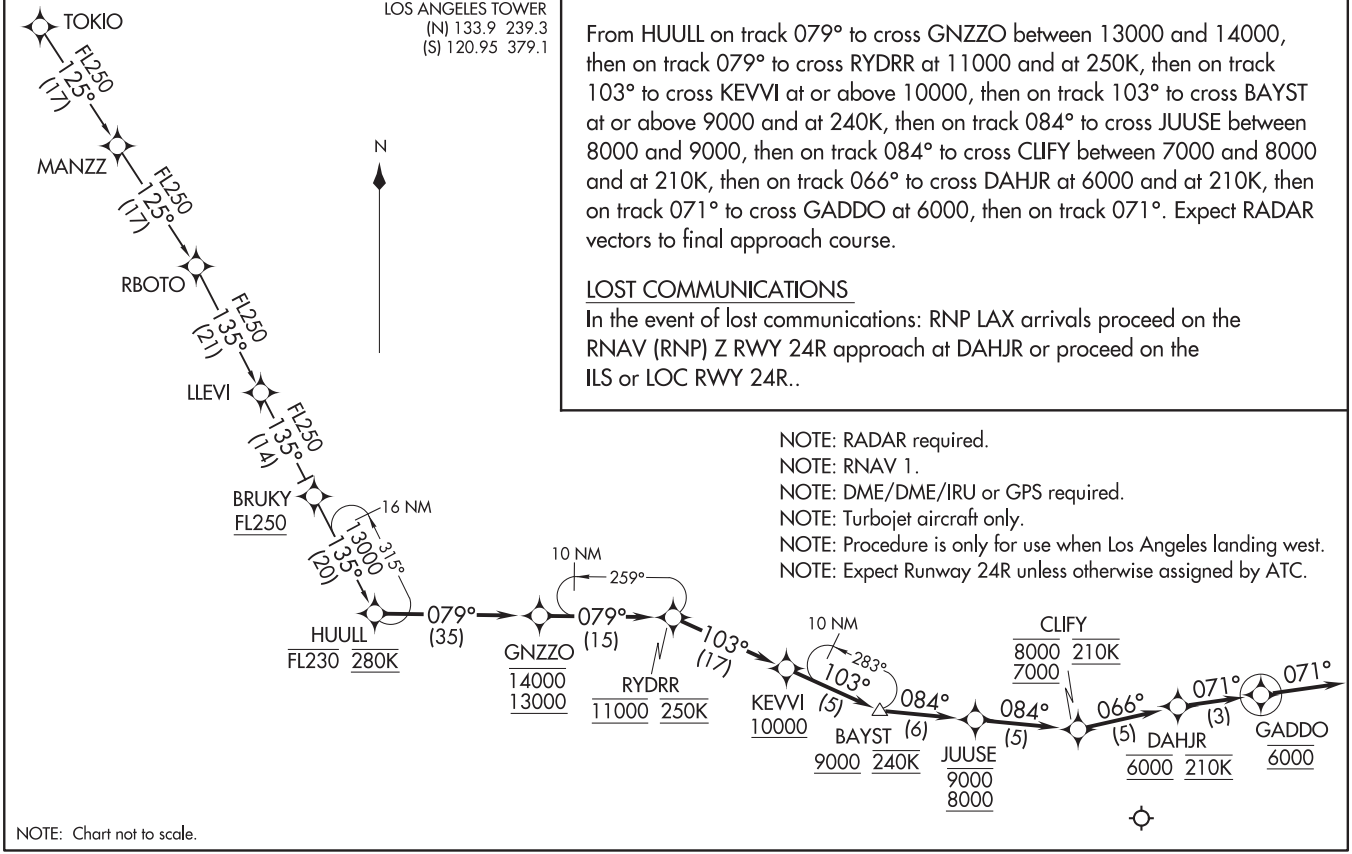
HUULL TWO ARRIVAL (RNAV)

AL-237 (FAA)

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

SOCAL APP CON
124.5 235.975
D-ATIS ARR
133.8
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1



ARRIVAL ROUTE DESCRIPTION

TOKIO TRANSITION (TOKIO.HUULL2)

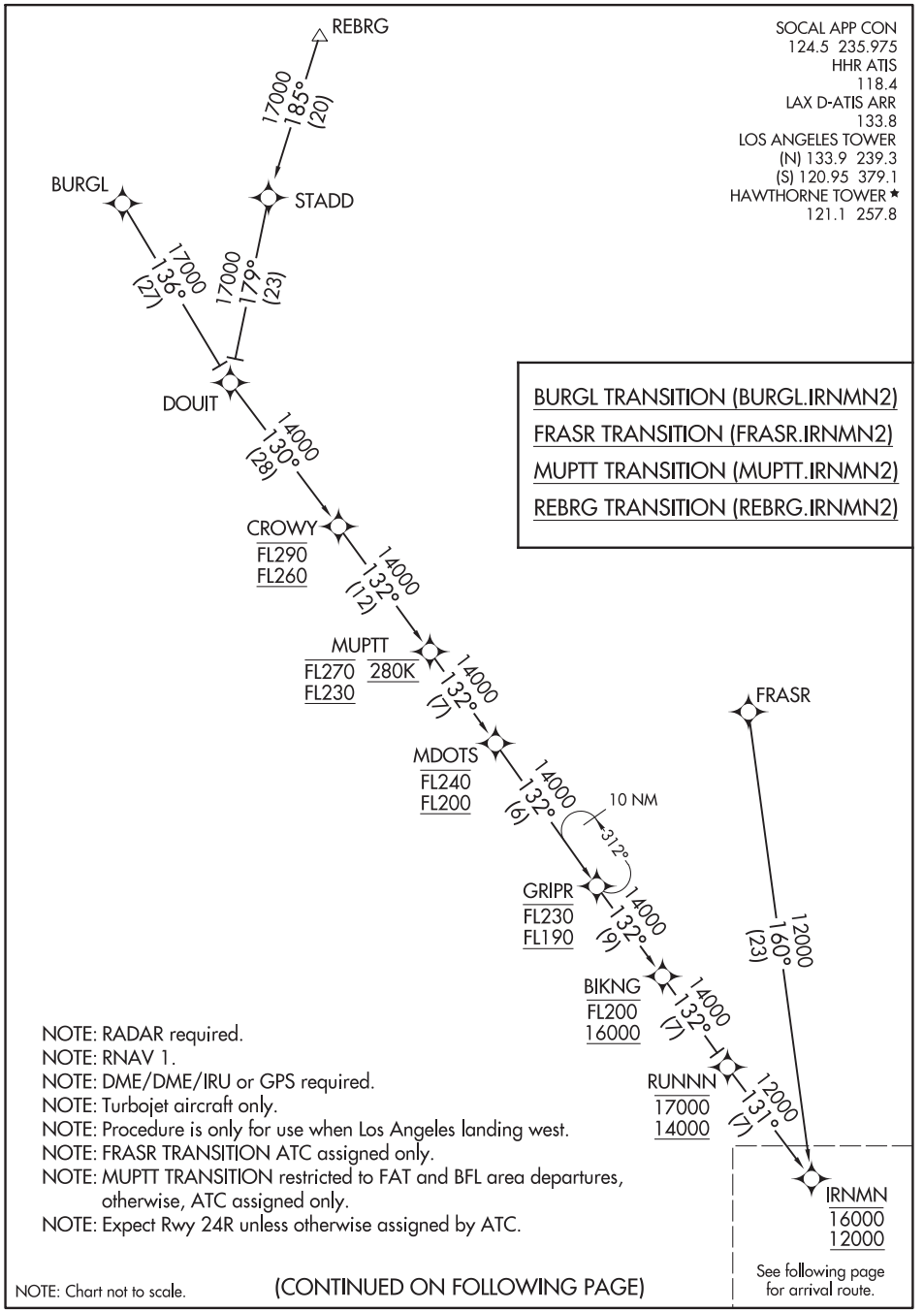
From HUULL on track 079° to cross GNZZO between 13000 and 14000, then on track 079° to cross RYDRR at 11000 and at 250K, then on track 103° to cross KEVVI at or above 10000, then on track 103° to cross BAYST at or above 9000 and at 240K, then on track 084° to cross JUUSE between 8000 and 9000, then on track 084° to cross CLIFY between 7000 and 8000 and at 210K, then on track 066° to cross DAHJR at 6000 and at 210K, then on track 071° to cross GADDO at 6000, then on track 071°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

In the event of lost communications: RNP LAX arrivals proceed on the RNAV (RNP) Z RWY 24R approach at DAHJR or proceed on the ILS or LOC RWY 24R..

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Procedure is only for use when Los Angeles landing west.
NOTE: Expect Runway 24R unless otherwise assigned by ATC.

NOTE: Chart not to scale.



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Procedure is only for use when Los Angeles landing west.
NOTE: FRASR TRANSITION ATC assigned only.
NOTE: MUPTT TRANSITION restricted to FAT and BFL area departures, otherwise, ATC assigned only.
NOTE: Expect Rwy 24R unless otherwise assigned by ATC.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

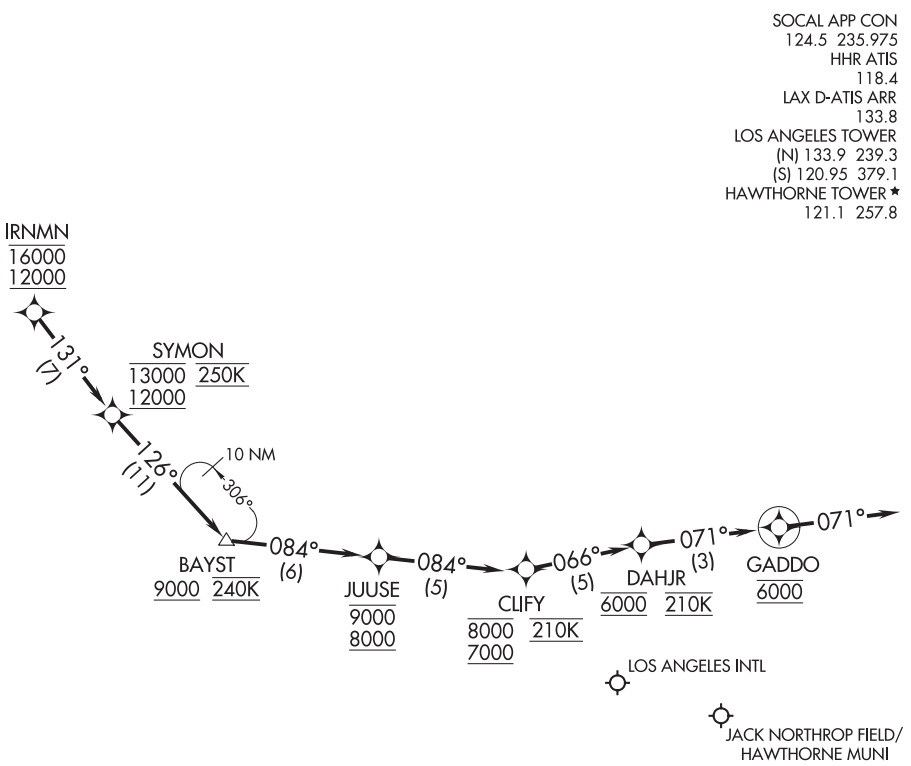
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(IRNMN.IRNMN2) 20198

AL-237 (FAA)

IRNMN TWO ARRIVAL (RNAV) Arrival Routes

LOS ANGELES, CALIFORNIA



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Procedure is only for use when Los Angeles landing west.
NOTE: Expect Rwy 24R unless otherwise assigned by ATC.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

LANDING KLAX/KHHR: From IRNMN on track 131° to cross SYMON between 12000 and 13000 and at 250K, then on track 126° to cross BAYST at or above 9000 and at 240K, then on track 084° to cross JUUSE between 8000 and 9000, then on track 084° to cross CLIFY between 7000 and 8000 and at 210K, then on track 066° to cross DAHJR at 6000 and at 210K, then on track 071° to cross GADDO at 6000, then on track 071°. Expect RADAR vectors to final approach course.

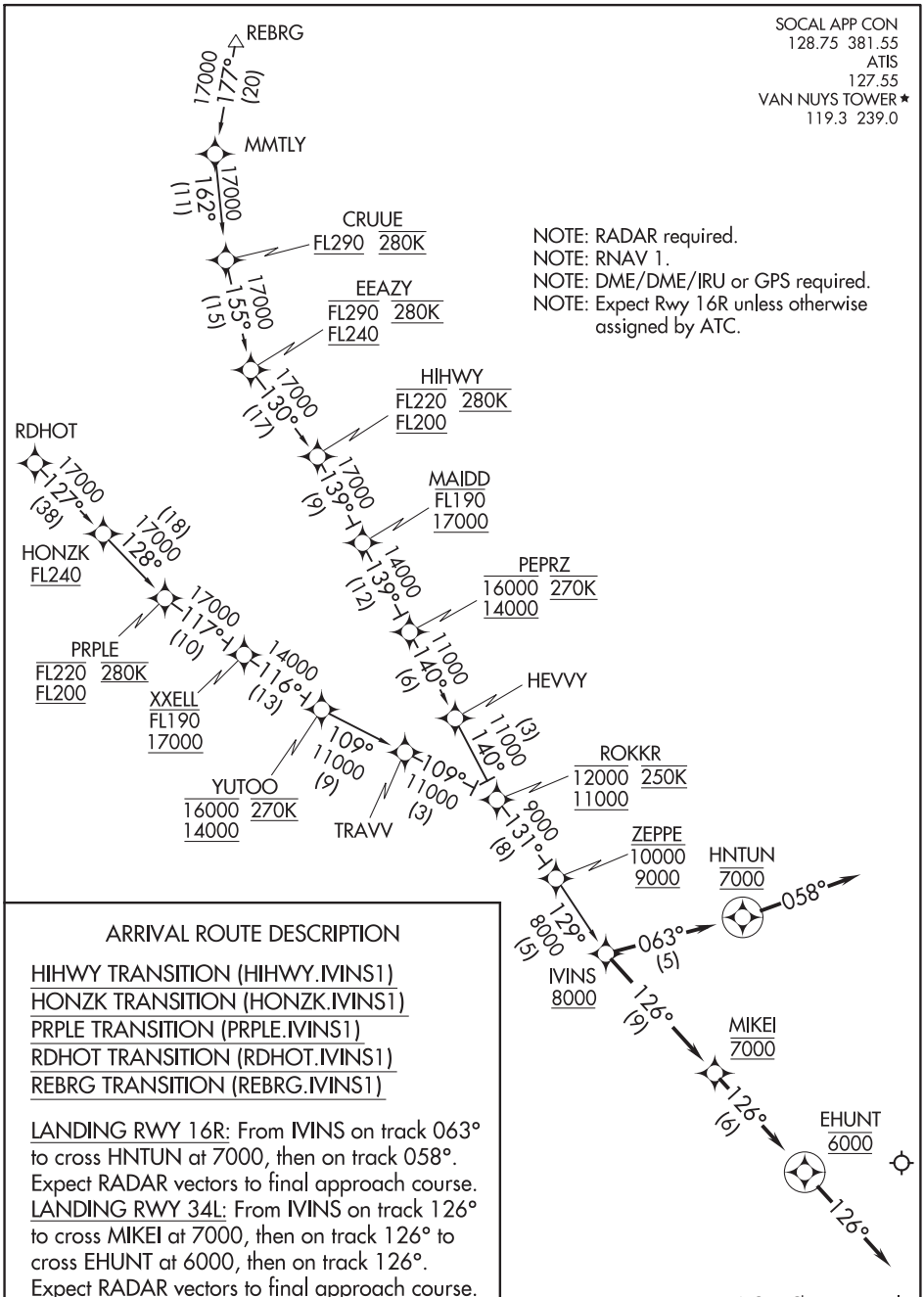
LOST COMMUNICATIONS

In the event of lost communications proceed on the RNAV (RNP) Z RWY 24R approach or the ILS or LOC RWY 24R.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

IVINS ONE ARRIVAL (RNAV)



ARRIVAL ROUTE DESCRIPTION

HIHWY TRANSITION (HIHWY.IVINS1)
HONZK TRANSITION (HONZK.IVINS1)
PRPLE TRANSITION (PRPLE.IVINS1)
RDHOT TRANSITION (RDHOT.IVINS1)
REBRG TRANSITION (REBRG.IVINS1)

LANDING RWY 16R: From IVINS on track 063° to cross HNTUN at 7000, then on track 058°. Expect RADAR vectors to final approach course.
LANDING RWY 34L: From IVINS on track 126° to cross MIKEI at 7000, then on track 126° to cross EHUNT at 6000, then on track 126°. Expect RADAR vectors to final approach course.

SW-3, 05 NOV 2020 to 31 DEC 2020

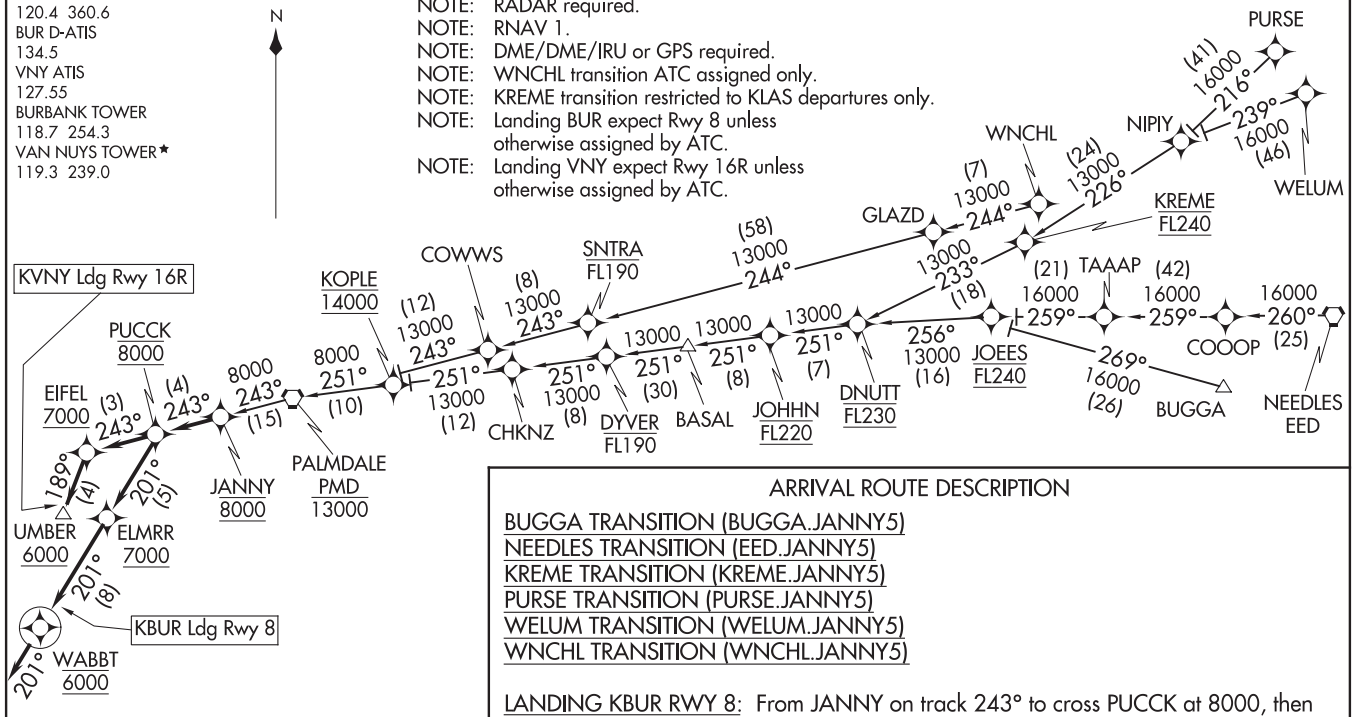
JANNY FIVE ARRIVAL (RNAV)

(JANNY.JANNY5) 19JUL18

BURBANK, CALIFORNIA

SOCAL APP CON
120.4 360.6
BUR D-ATIS
134.5
VNY ATIS
127.55
BURBANK TOWER
118.7 254.3
VAN NUYS TOWER*
119.3 239.0

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: WNCHL transition ATC assigned only.
NOTE: KREME transition restricted to KLAS departures only.
NOTE: Landing BUR expect Rwy 8 unless otherwise assigned by ATC.
NOTE: Landing VNY expect Rwy 16R unless otherwise assigned by ATC.



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

BUGGA TRANSITION (BUGGA.JANNY5)
NEEDLES TRANSITION (EED.JANNY5)
KREME TRANSITION (KREME.JANNY5)
PURSE TRANSITION (PURSE.JANNY5)
WELUM TRANSITION (WELUM.JANNY5)
WNCHL TRANSITION (WNCHL.JANNY5)

LANDING KBUR RWY 8: From JANNY on track 243° to cross PUCCK at 8000, then on track 201° to cross ELMRR at or above 7000, then on track 201° to cross WABBT at 6000, then on track 201°. Expect RNAV (RNP) Y RWY 8 or RADAR vectors to final approach course.

LANDING KVNY: From JANNY on track 243° to cross PUCCK at 8000, then on track 243° to cross EIFEL at or above 7000, then on track 189° to cross UMBER at or above 6000. Expect ILS Y RWY 16R or ILS Z RWY 16R.

(JANNY.JANNY5) 20198

JANNY FIVE ARRIVAL (RNAV)

BURBANK, CALIFORNIA

AL-67 (FAA)

Z37

SOCAL APP CON
127.0 318.2
D-ATIS
124.25
ONTARIO TOWER
120.6 360.775
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Expect Rwy 26L unless otherwise assigned by ATC.
NOTE: Expect local area altimeter setting reaching FL200.
NOTE: HEYNG transition ATC assigned only.
NOTE: FEYLA transition Las Vegas area departures only.
N
NOTE: Chart not to scale.
FEYLA TRANSITION (FEYLA..JCKIE2)
HEYNG TRANSITION (HEYNG..JCKIE2)
MARUE TRANSITION (MARUE..JCKIE2)
NATEE TRANSITION (NATEE..JCKIE2)
JCKIE
FL190
17000
See following page for arrival route.
JNBOY
FL210
LRSON
FL220
FL210
PEIRC
FL240 280K
FEYLA
GRNER
FL240 280K
FJAYY
FL300
FL240
SCROW
JAJEE
FL220
HEYNG
FL240 280K
GUYRR
NATEE
MARUE
10 NM
(CONTINUED ON FOLLOWING PAGE)

(JCKIE.JCKIE2) 19339

JCKIE TWO ARRIVAL (RNAV) Arrival Routes

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

SOCAL APP CON
127.0 318.2
D-ATIS
124.25
ONTARIO TOWER
120.6 360.775

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

From JCKIE on track 222° to cross GBNEY between 14000 and 16000, then on track 229° to cross GRRAY between 12000 and 14000, then on track 217° to cross HINOH between 11000 and 13000.

LANDING RUNWAY 8L/R: From HINOH on track 196° to cross ARRAN at or above 10000 and at or below 250K, then on track 218° to cross FIXUT at 9000, then on track 218° to cross ILONE at 8000, then on track 218° to cross ESAYE at 6000, then on track 211° to cross EFFXX at 6000 and at 210K then on track 267° to CASIE, then on heading 267° or as assigned by ATC. Expect RNAV (RNP) Z RWY 8L approach or RADAR vectors to final approach course.

LANDING RWY 26L/R: From HINOH on track 196° to cross RUMBL at 10000 and at 240K, then on heading 196° or as assigned by ATC. Expect RNAV (RNP) Z RWY 26L approach or RADAR vectors to final approach course.

LOST COMMUNICATIONS
LANDING WEST: Proceed on the RNAV (RNP) Z RWY 26L approach or ILS or LOC RWY 26L approach.
LANDING EAST: Proceed on the RNAV (RNP) Z RWY 8L approach or ILS or LOC RWY 8L approach.

SW-3, 05 NOV 2020 to 31 DEC 2020

(DIRBY.KARLB2) 18088

KARLB TWO ARRIVAL (RNAV)

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

KAYOH SEVEN ARRIVAL

(KAYOH.KAYOH7) 05JAN17

LONG BEACH, CALIFORNIA

KAYOH SEVEN ARRIVAL

(KAYOH.KAYOH7) 20310

LONG BEACH, CALIFORNIA

Z42

AL-236 (FAA)

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.KAYOH7): From over HEC VORTAC on HEC R-211 to BULGY INT then on R-211 and PDZ R-030 to DAWNA INT, then on HDF R-353 to HDF VOR, then on HDF R-257 to FRETS INT, then on HDF R-257 and SLI R-075 to KAYOH INT. Thence. . . .

PALM SPRINGS TRANSITION (PSP.KAYOH7): From over PSP VORTAC on PSP R-260 to BANDS INT, then on HDF R-054 to HDF VOR, then on HDF R-257 to FRETS INT, then on HDF R-257 and SLI R-075 to KAYOH INT. Thence. . . .

. . . .from over KAYOH on SLI R-075 to JOGIT INT, then on SLI R-075 to SLI VORTAC, expect RADAR vectors to final approach course.

SOCAL APP CON
133.85 346.35
FUL ATIS
125.05
LGB ATIS
127.75
SNA D-ATIS
126.0
TOA ATIS
125.6

DAGGETT
113.2 DAG
Chan 79

BULGY
N34°40.07'-W116°37.32'
VERTICAL NAVIGATION PLANNING INFORMATION
Expect FL240

R-172
10500
211°
(11)
V8-21-283
V8-21-283-587
10500
211°
(34)
31
44

HECTOR
112.7 HEC
Chan 74
N34°47.82'
W116°27.78'
L-7, H-4

DAWNA
N34°15.90'-W117°06.78'
VERTICAL NAVIGATION PLANNING INFORMATION
TURBOJET: Expect 13000
NON-TURBOJET: Expect 12000

N

PARADISE
112.2 PDZ
Chan 59

29
R-030
V283-587
10500
173°
(29)

POMONA
110.4 POM
Chan 41

KAYOH
N33°46.82'
W117°35.41'
VERTICAL NAVIGATION PLANNING INFORMATION
Expect 210K

R-164
R-185
R-154
R-353
V283-372
6000
255°
(10)
23
19
24
(5)
V283-372
8000
257°
(16)
R-054
V372
8000
234°
(18)
21
BANDS
N33°53.38'
W116°50.97'
13000
260°
(8)
V16-370-372
13000
260°
(13)

FULLERTON MUNI
LONG BEACH/ DAUGHERTY FIELD
LOS ALAMITOS AAF
ZAMPERINI FIELD
4000
R-075
(14)

AHLEX
N33°52.94'
W116°41.38'
VERTICAL NAVIGATION PLANNING INFORMATION
Expect 16000

SEAL BEACH
115.7 SLI
Chan 104
N33°47.00'-W118°03.29'

JOGIT
N33°46.91'
W117°46.85'
R-325

JOHN WAYNE ARPT-ORANGE COUNTY

HOMELAND
113.4 HDF
N33°46.58'
W117°11.12'

R-021

EL TORO
117.2(T) ELB
Chan 119

FRETS
N33°46.77'-W117°29.86'
VERTICAL NAVIGATION PLANNING INFORMATION
Expect 8000

OCEANSIDE
115.3 OCN
Chan 100

PALM SPRINGS
115.5 PSP
Chan 102
N33°52.20'-W116°25.79'
L-4, H-4

NOTE: RADAR required

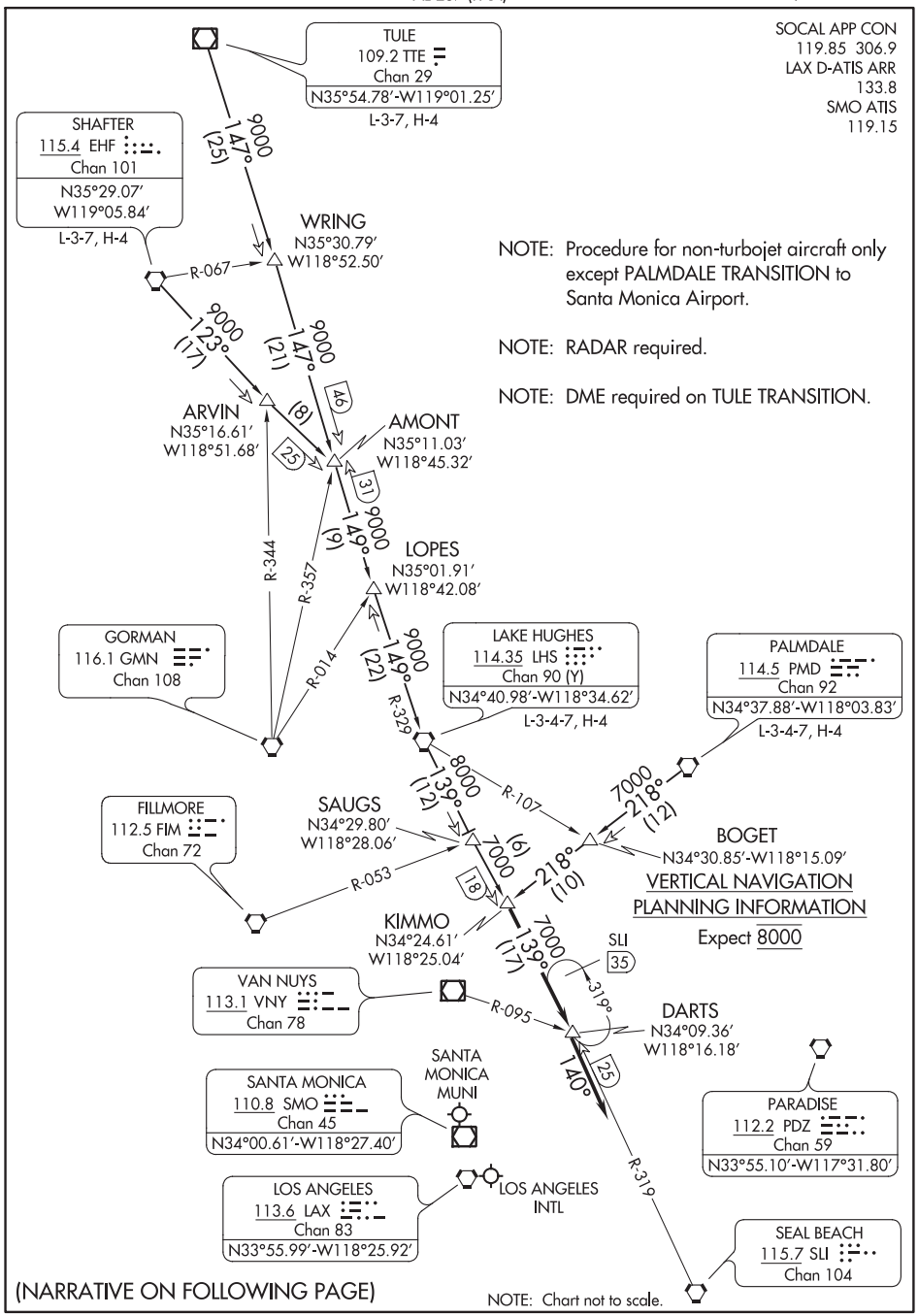
NOTE: Chart not to scale.

(KIMMO.KIMMO3) 20310

KIMMO THREE ARRIVAL

AL-237 (FAA)

LOS ANGELES, CALIFORNIA



KIMMO THREE ARRIVAL

LOS ANGELES, CALIFORNIA

(KIMMO.KIMMO3) 24JUL14

SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

LAKE HUGHES TRANSITION (LHS.KIMMO3): From over LHS VORTAC on LHS R-139 to KIMMO INT. Thence. . . .

PALMDALE TRANSITION (PMD.KIMMO3): From over PMD VORTAC on PMD R-218 to KIMMO INT. Thence. . . .

SHAFTER TRANSITION (EHF.KIMMO3): From over EHF VORTAC on EHF R-123 and LHS R-329 to LHS VORTAC, then on LHS R-139 to KIMMO INT. Thence. . . .

TULE TRANSITION (TTE.KIMMO3): From over TTE VOR/DME on TTE R-147 and LHS R-329 to LHS VORTAC, then on LHS R-139 to KIMMO INT. Thence. . . .

. . . .From over KIMMO INT on LHS R-139 and SLI R-319 to DARTS INT/SLI 25 DME.

LANDING LOS ANGELES INTL: Depart DARTS INT heading 140°, expect RADAR vectors to final approach course.

LANDING SANTA MONICA MUNI: Depart DARTS INT heading 140°, expect RADAR vectors to final approach course.

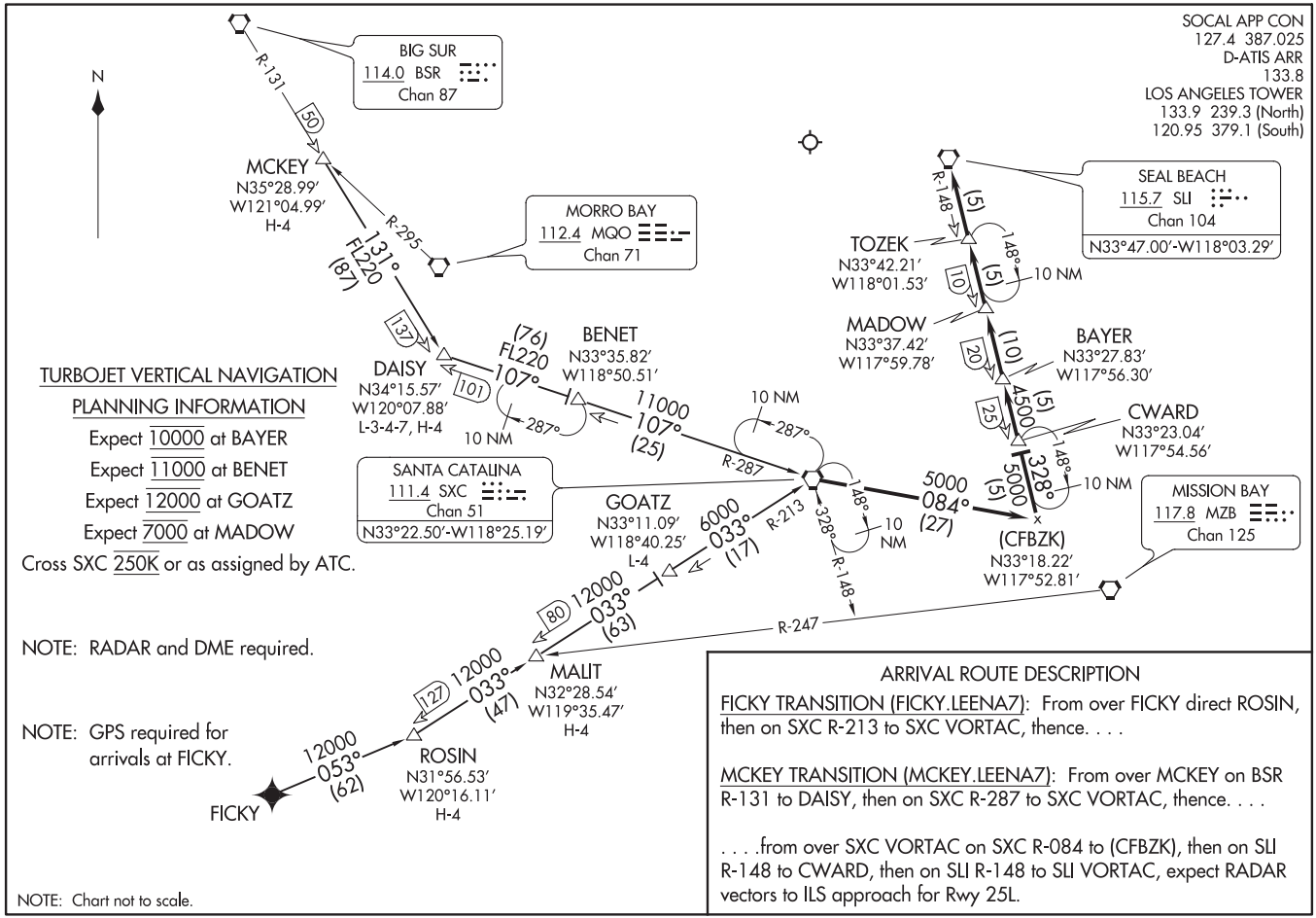
SW-3, 05 NOV 2020 to 31 DEC 2020

LEENA SEVEN ARRIVAL

(SXC.LEENA7) 19JUL18

LOS ANGELES, CALIFORNIA

LOS ANGELES INTL (LAX)



TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION

Expect 10000 at BAYER

Expect 11000 at BENET

Expect 12000 at GOATZ

Expect 7000 at MADOW

Cross SXC 250K or as assigned by ATC.

NOTE: RADAR and DME required.

NOTE: GPS required for arrivals at FICKY.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

FICKY TRANSITION (FICKY.LEENA7): From over FICKY direct ROSIN, then on SXC R-213 to SXC VORTAC, thence. . . .

MCKEY TRANSITION (MCKEY.LEENA7): From over MCKEY on BSR R-131 to DAISY, then on SXC R-287 to SXC VORTAC, thence. . . .

. . . .from over SXC VORTAC on SXC R-084 to (CFBZK), then on SLI R-148 to CWARD, then on SLI R-148 to SLI VORTAC, expect RADAR vectors to ILS approach for Rwy 25L.

(SXC.LEENA7) 20310

LEENA SEVEN ARRIVAL

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

AL-237 (FAA)

Z45

LEGOZ TWO ARRIVAL(RNAV)

CARLSBAD, CALIFORNIA

(LEGOZ.LEGOZ2) 17285

LEGOZ TWO ARRIVAL (RNAV)

AL-5310 (FAA)

CARLSBAD, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

BAUBB TRANSITION (BAUBB.LEGOZ2)
BLOXX TRANSITION (BLOXX.LEGOZ2)
BURGL TRANSITION (BURGL.LEGOZ2)
LANDO TRANSITION (LANDO.LEGOZ2)
REBRG TRANSITION (REBRG.LEGOZ2)
TILLT TRANSITION (TILLT.LEGOZ2)

LANDING CRQ RUNWAY 6: From LEGOZ on track 104° to cross BRIKS at or below 13000, then on track 084° to cross AVOLS at 11000 and at 250K, then on track 085° to cross PACIF at 7000. Expect RNAV (RNP) Z RWY 6 approach.

LANDING CRQ RUNWAY 24: From LEGOZ on track 104° to cross BRIKS at or below 13000, then on track 084° to cross AVOLS at 11000 and at 250K, then on track 085° to cross PACIF at 7000, then on track 085° to cross OCN VORTAC at 5000, then on track 085° . Expect RADAR vectors to ILS or LOC RWY 24 final approach course.

LANDING NFG: From LEGOZ on track 104° to cross BRIKS at or below 13000, then on track 084° to cross AVOLS at 11000 and at 250K, then on track 085° to cross PACIF at 7000, then on track 085° to cross OCN VORTAC at 5000, then on track 085° . Expect RNAV (GPS) RWY 21 approach or RADAR vectors to final approach course.

LUCKI ONE ARRIVAL (RNAV)

(LUCKI.LUCKI1) 10NOV16

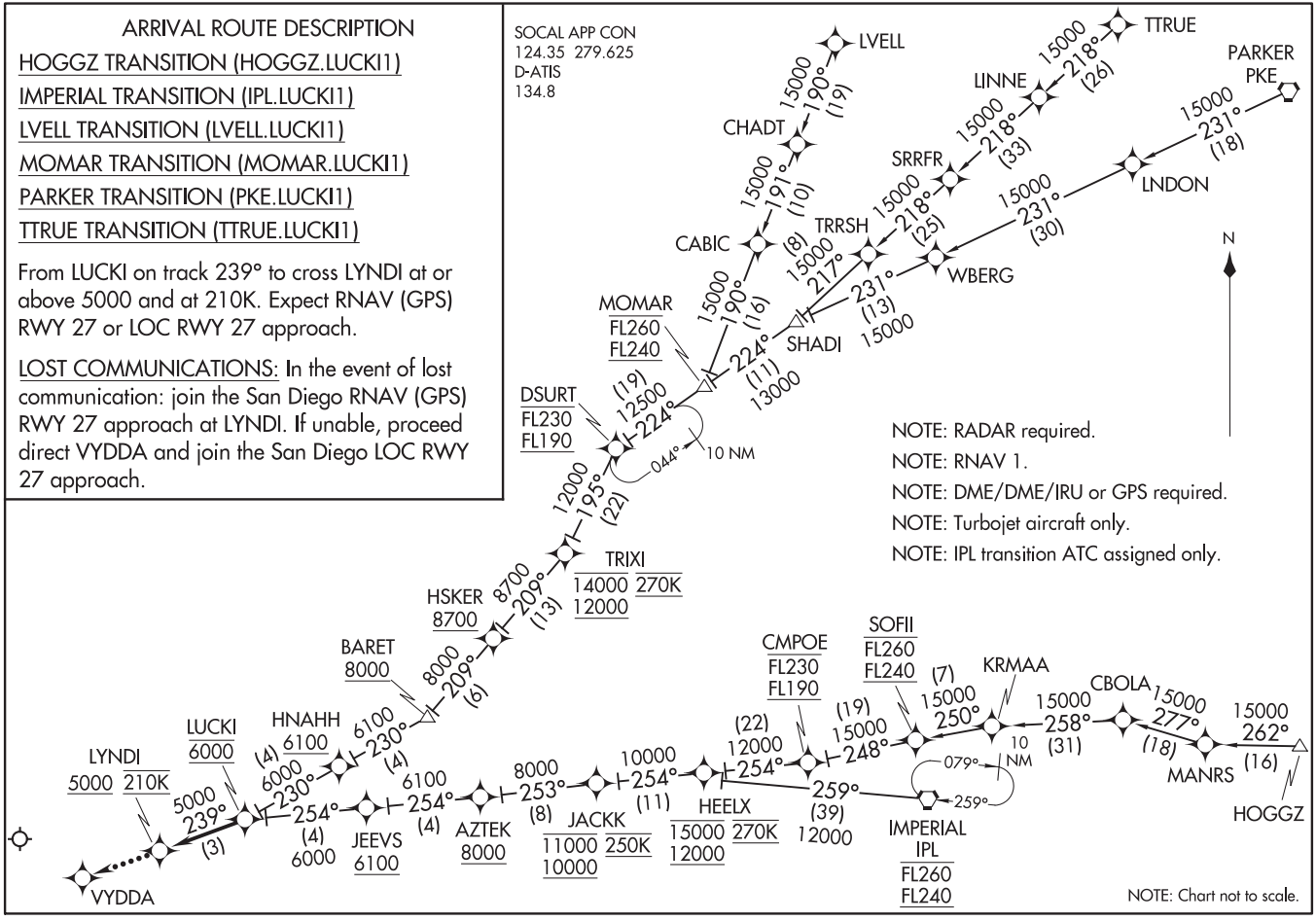
SAN DIEGO, CALIFORNIA
SAN DIEGO INTL (SAN)

ARRIVAL ROUTE DESCRIPTION

HOGGZ TRANSITION (HOGGZ.LUCKI1)
IMPERIAL TRANSITION (IPL.LUCKI1)
LVELL TRANSITION (LVELL.LUCKI1)
MOMAR TRANSITION (MOMAR.LUCKI1)
PARKER TRANSITION (PKE.LUCKI1)
TTRUE TRANSITION (TTRUE.LUCKI1)

From LUCKI on track 239° to cross LYNDI at or above 5000 and at 210K. Expect RNAV (GPS) RWY 27 or LOC RWY 27 approach.

LOST COMMUNICATIONS: In the event of lost communication: join the San Diego RNAV (GPS) RWY 27 approach at LYNDI. If unable, proceed direct VYDDA and join the San Diego LOC RWY 27 approach.



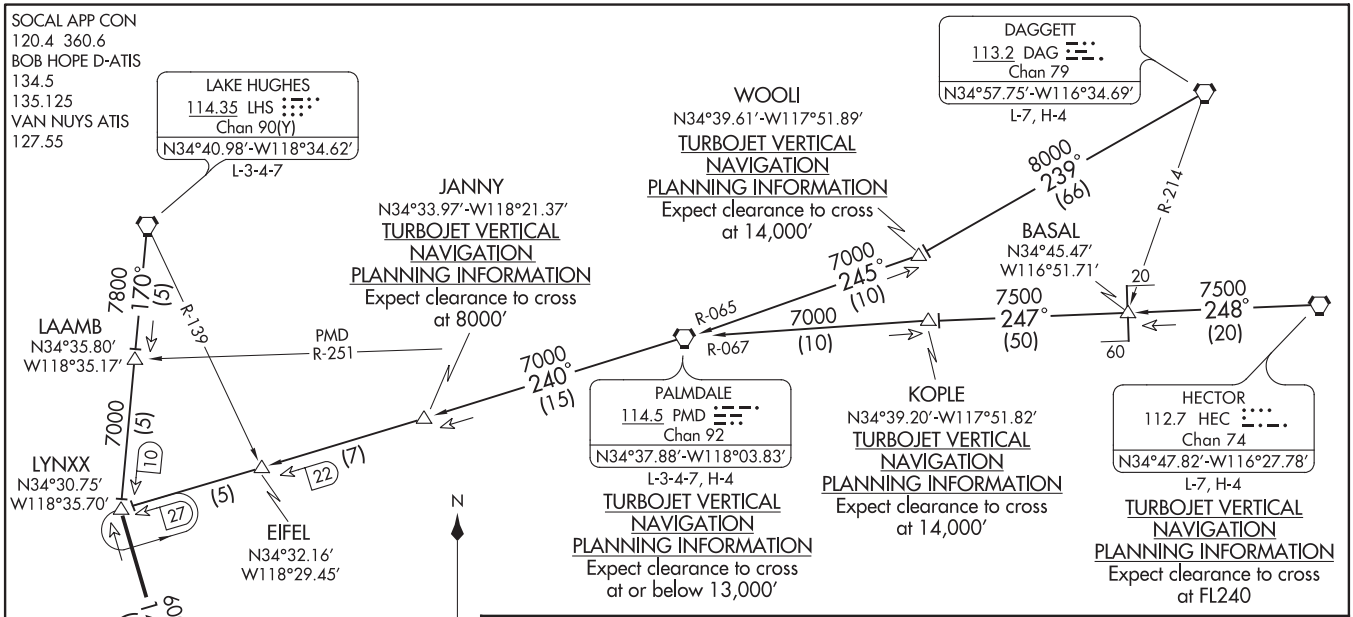
LUCKI ONE ARRIVAL (RNAV)

(LUCKI.LUCKI1) 17173

AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA

LYNXX EIGHT ARRIVAL



NOTE: DME required for DAGGETT, HECTOR, and PALMDALE TRANSITIONS.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

DAGGETT TRANSITION (DAG.LYNXX8): From over DAG VORTAC via DAG R-239 and PMD R-065 to PMD VORTAC. Then via PMD R-240 to LYNXX INT. Thence. . . .

HECTOR TRANSITION (HEC.LYNXX8): From over HEC VORTAC via HEC R-248 and PMD R-067 to PMD VORTAC. Then via PMD R-240 to LYNXX INT. Thence. . . .

LAKE HUGHES TRANSITION (LHS.LYNXX8): From over LHS VORTAC via LHS R-170 to LYNXX INT. Thence. . . .

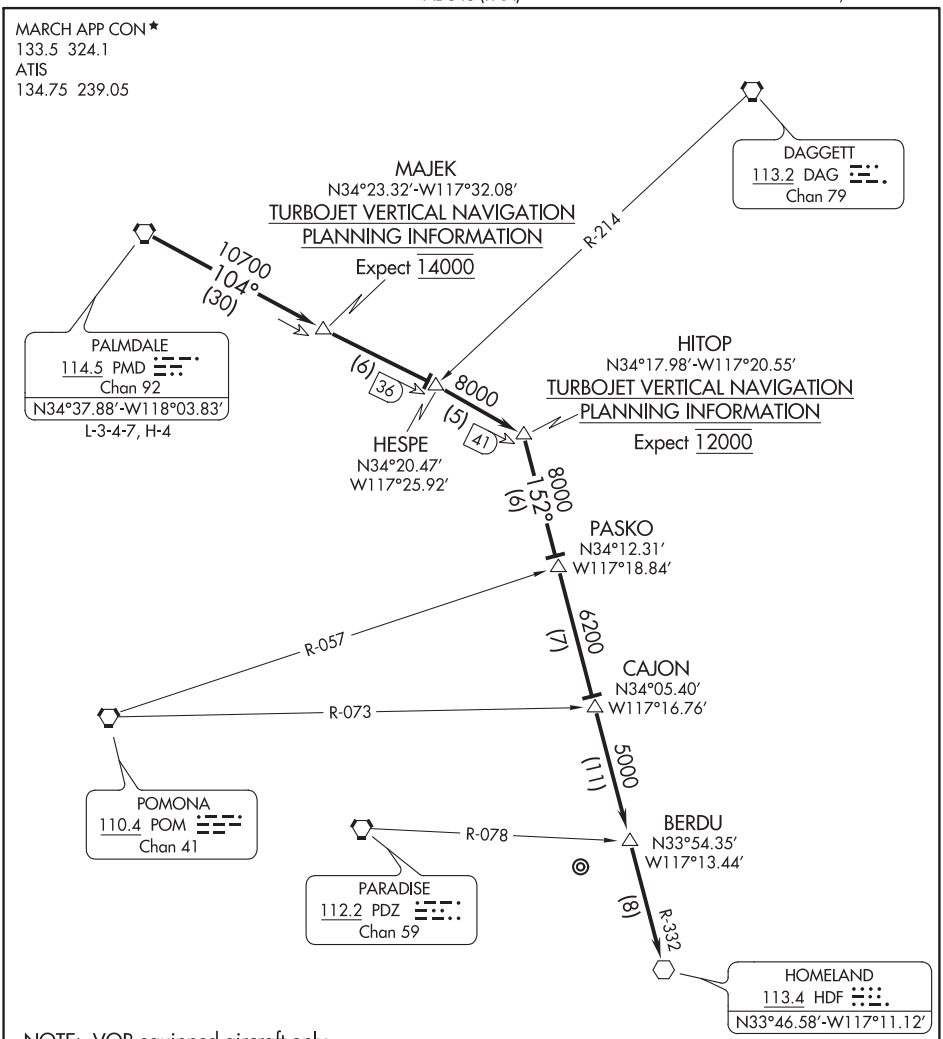
PALMDALE TRANSITION (PMD.LYNXX8): From over PMD VORTAC via PMD R-240 to LYNXX INT. Thence. . . .

. . . .From over LYNXX INT via VNY R-329 to VNY VOR/DME. Expect RADAR vectors to final approach course after VNY VOR/DME.

LYNXX EIGHT ARRIVAL

(LYNXX.LYNXX8) 03AUG06

BURBANK, CALIFORNIA



NOTE: VOR equipped aircraft only.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From over PMD VORTAC via PMD R-104 to HITOP INT. Thence via HDF R-332 to HDF VOR. Expect VOR approach or vector to intercept ILS Rwy 32.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

MDNYT TWO ARRIVAL (RNAV) Transition Routes

(MDNYT.MDNYT2) 12OCT17

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

- AMMOR TRANSITION (AMMOR.MDNYT2)
- CGNEY TRANSITION (CGNEY.MDNYT2)
- DNERO TRANSITION (DNERO.MDNYT2)
- ESTWD TRANSITION (ESTWD.MDNYT2)
- FNNDA TRANSITION (FNNDA.MDNYT2)
- GABBL TRANSITION (GABBL.MDNYT2)
- HAKMN TRANSITION (HAKMN.MDNYT2)
- MDLER TRANSITION (MDLER.MDNYT2)
- OTOOL TRANSITION (OTOOL.MDNYT2)
- SHTNR TRANSITION (SHTNR.MDNYT2)

SOCAL APP CON
124.05 353.775
D-ATIS ARR
133.8
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1

HAKMN
OTOOL
SHTNR
DNERO
SLLRS
CGNEY
BCALL
FL280 280K
FL240
ANJLL
FL290 280K
FL240
LEMMN
SALYY
FL290
FNNDA
GABBL
CHPLN
NWMAN
TOLLA
17000
14000
KAOSS
FL230
FL190
GLESN
FL320
FL270
BIGBR
14000
13000
SLACR
15000
MDLER
MNROE
HLYWD
BRUEN
WHDDN
15000
EMMMY
17000
14000
TRUBL
FL230
FL190
AVATR
FL290 280K
FL240
MCQWN
ESTWD
MDNYT
13000
10000
SHRTZ
14000
13000
SNDDR
15000
LAAMP
17000 280K
15000
LAHVA
17000
SOLAY
FL190
SNSTT
FL260 280K
FL240
RNCHO
FL260
AMMOR

10 NM
035°
054°
041°
109°

(8) 10000 236°
13000 253° (6)
13000 253° (14)
13000 250° (17)
17000 252° (15)
17000 251° (15)
FL190 251° (16)
FL190 251° (15)
FL190 269° (34)
FL190 270° (46)
10000 264° (8)
13000 270° (20)
13000 287° (12)
15000 287° (12)
16000 316° (13)
16000 328° (20)
16000 298° (14)
16000 289° (29)
(5) 13000 244°
(4) 13000 244°
14000 244° (14)
17000 240° (15)
17000 204° (15)
17000 232° (17)
FL190 232° (11)
FL190 205° (13)
FL190 202° (22)
FL190 215° (61)
FL190 215° (34)
FL190 234° (55)
FL190 230° (31)
FL190 260° (54)
FL190 221° (58)
FL190 243° (15)
FL190 244° (24)
FL190 244° (44)

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: This arrival for use only when noise abatement procedures are in effect.
NOTE: Expect runway 6R unless otherwise assigned.
NOTE: Expect local area altimeter reaching FL230.
NOTE: CGNEY, MDLER, and OTOOL transitions ATC assigned only, do not file.
NOTE: SHTNR transition restricted to LAS departures only.

See following page for arrival route.

N

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(MDNYT.MDNYT2) 17285

MDNYT TWO ARRIVAL (RNAV) Transition Routes

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

AL-237 (FAA)

Z51

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: This arrival for use only when noise abatement procedures are in effect.
NOTE: Expect runway 6R unless otherwise assigned.
NOTE: Expect local area altimeter reaching FL230.

ARRIVAL ROUTE DESCRIPTION

LANDING RUNWAYS 6L/R: From MDNYT on track 252° to DOWNE, then on track 268° to cross DOYRS at or above 10000, then on track 267° to cross CLIFY between 8000 and 10000 and at 230K, then on track 259° to HNCHE, then on track 251° to cross SASSI at 7000 and at 210K, then on track 251° to SHIPM, then on track 251°. Expect RADAR vectors to ILS or RNAV (RNP) RWY 6R final approach course.

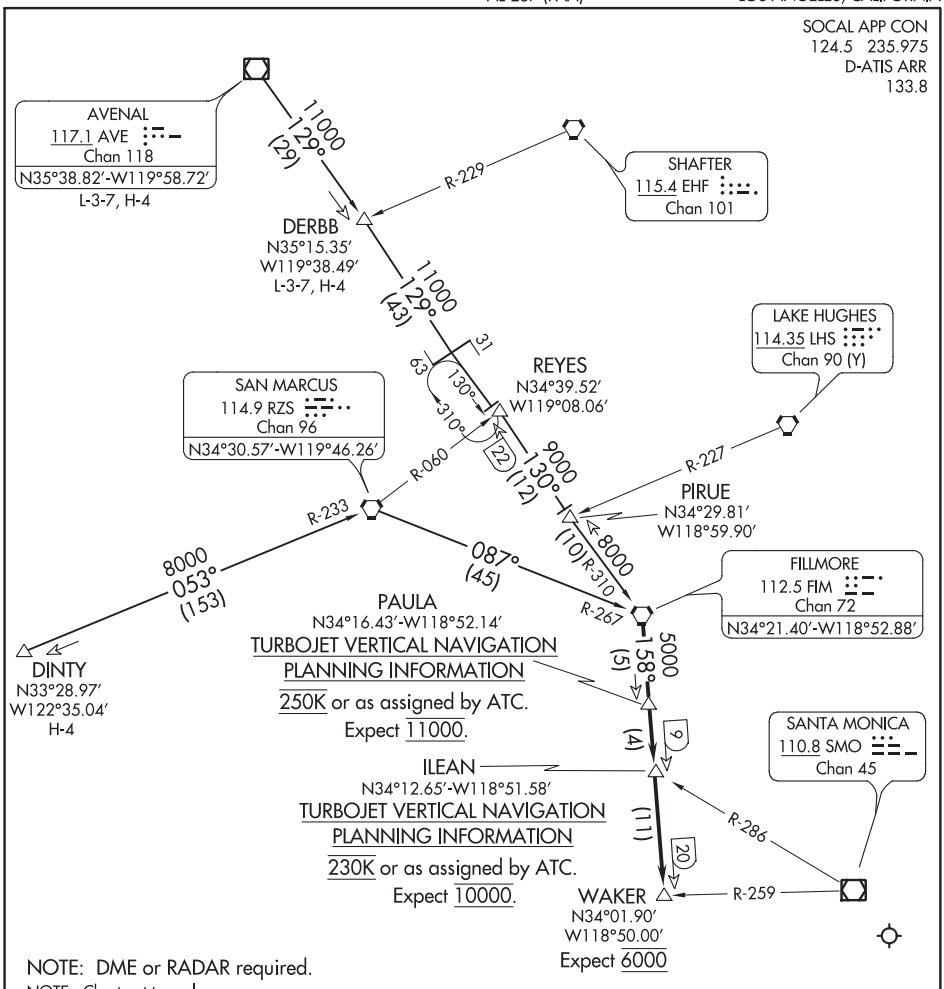
LOST COMMUNICATIONS: In the event of lost communication proceed on the RNAV (RNP) RWY 6R or ILS or LOC RWY 6R approach.

(FIM.MOOR4) 19227

MOORPARK FOUR ARRIVAL

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

AVENAL TRANSITION (AVE.MOOR4): From over AVE VOR/DME on AVE R-129 and FIM R-310 to FIM VORTAC. Thence. . . .

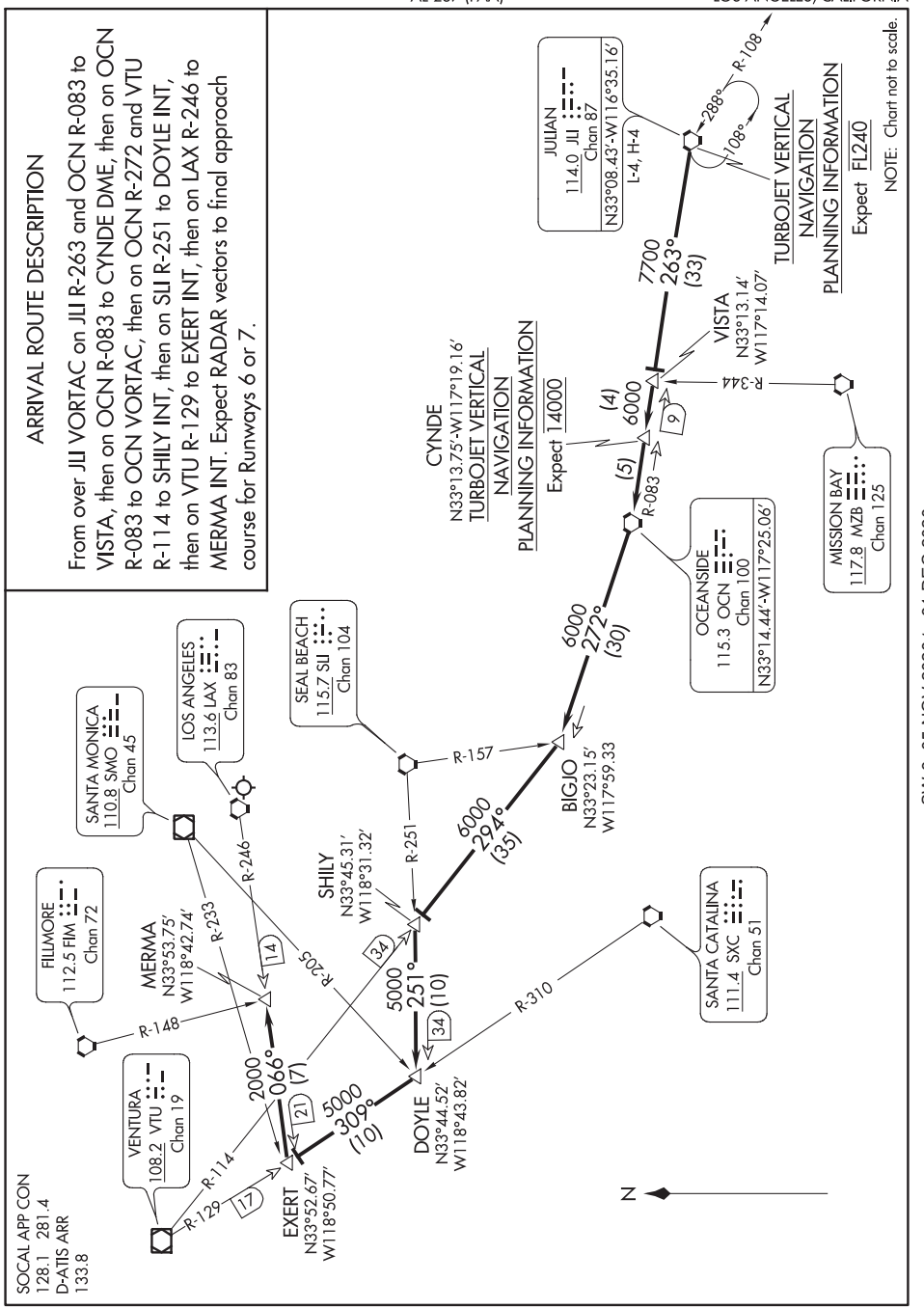
DERBB TRANSITION (DERBB.MOOR4): From over DERBB INT on AVE R-129 and FIM R-310 to FIM VORTAC. Thence. . . .

DINTY TRANSITION (DINTY.MOOR4): From over DINTY INT on RZS R-233 to RZS VORTAC. Then on RZS R-087 and FIM R-267 to FIM VORTAC. Thence. . . .

. . . .From over FIM VORTAC via FIM R-158 to WAKER INT. For Runways 6L/R or 7L/R: From WAKER INT expect vector to final approach course for Los Angeles Intl Airport.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

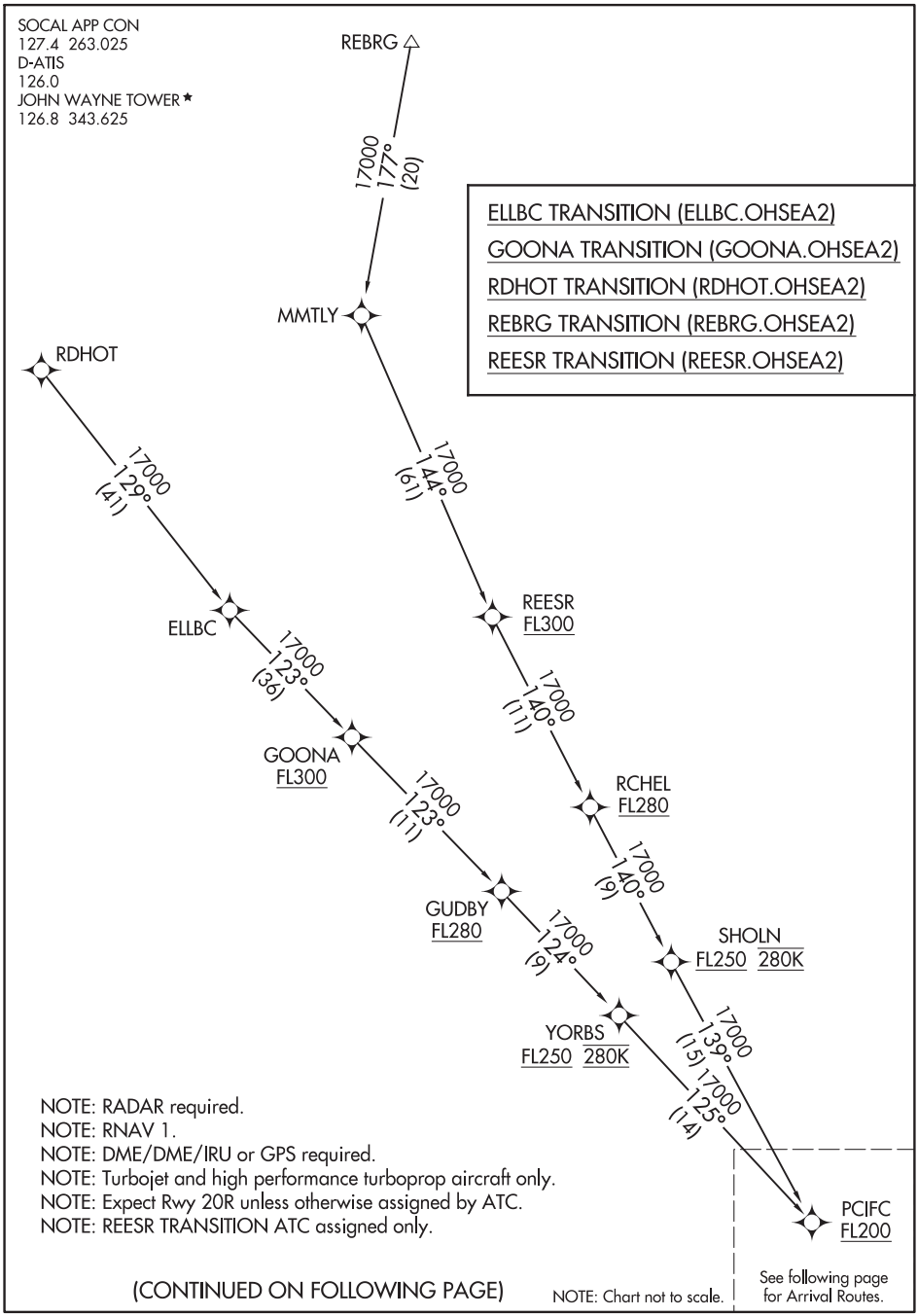

ARRIVAL ROUTE DESCRIPTION
From over JLI VORTAC on JLI R-263 and OCN R-083 to VISTA, then on OCN R-083 to CYNDE DME, then on OCN R-083 to OCN VORTAC, then on OCN R-272 and VTU R-114 to SHILY INT, then on SLI R-251 to DOYLE INT, then on VTU R-129 to EXERT INT, then on LAX R-246 to MERMA INT. Expect RADAR vectors to final approach course for Runways 6 or 7.
SOCAL APP CON
128.1 281.4
D-ATIS ARR
133.8
VENTURA
108.2 VTU
Chan 19
FILLMORE
112.5 FIM
Chan 72
SANTA MONICA
110.8 SMO
Chan 45
LOS ANGELES
113.6 LAX
Chan 83
SEAL BEACH
115.7 SLI
Chan 104
SANTA CATALINA
111.4 SXC
Chan 51
OCEANSIDE
115.3 OCN
Chan 100
N33°14.44'-W117°25.06'
MISSION BAY
117.8 MZB
Chan 125
JULIAN
114.0 JLI
Chan 87
N33°08.43'-W116°35.16'
L-4, H-4
VISTA
N33°13.14'
W117°14.07'
CYNDE
N33°13.75'-W117°19.16'
TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION
Expect 14000
TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION
Expect FL240
NOTE: Chart not to scale.
EXERT
N33°52.67'
W118°50.77'
DOYLE
N33°44.52'
W118°43.82'
SHILY
N33°45.31'
W118°31.32'
MERMA
N33°53.75'
W118°42.74'
BIGJO
N33°23.15'
W117°59.33
2000
066°
(7)
5000
309°
(10)
5000
251°
(10)
6000
294°
(35)
6000
272°
(30)
7700
263°
(33)
(4)
6000
(5)
R-129
R-114
R-148
R-233
R-246
R-205
R-251
R-157
R-083
R-310
R-344
R-288°
R-108°
R-108
17
21
14
34
34
9
N

(PCIFC.OHSEA2) 19171 AL-377 (FAA)

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

OHSEA TWO ARRIVAL (RNAV) Transition Routes

SANTA ANA, CALIFORNIA



OHSEA TWO ARRIVAL (RNAV) Transition Routes

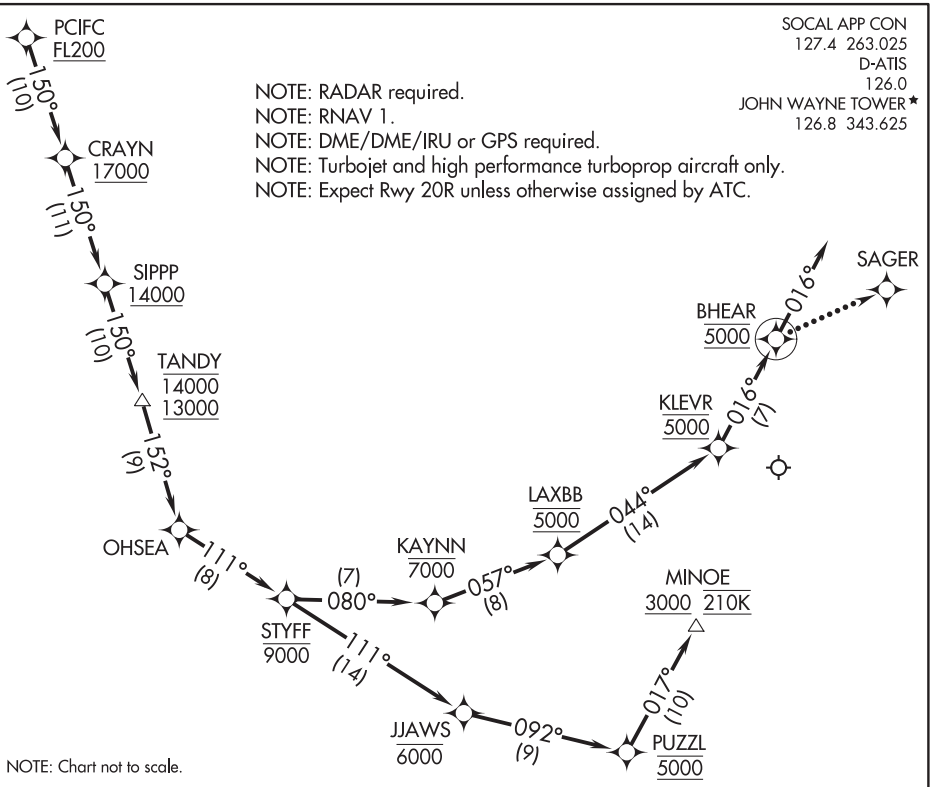
SANTA ANA, CALIFORNIA

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

(PCIFC.OHSEA2) 28FEB19

SW-3, 05 NOV 2020 to 31 DEC 2020

OHSEA TWO ARRIVAL (RNAV) Arrival Routes



ARRIVAL ROUTE DESCRIPTION

From PCIFC on track 150° to cross CRAYN at or above 17000, then on track 150° to cross SIPPP at or above 14000, then on track 150° to cross TANDY between 13000 and 14000, then on track 152° to OHSEA.

LANDING RUNWAY 2L: From OHSEA on track 111° to cross STYFF at or below 9000, then on track 111° to cross JJAWS at or below 6000, then on track 092° to cross PUZZL at 5000, then on track 017° to cross MINOE at or above 3000 and at 210K. Expect RNAV (RNP) Z RWY 2L or vectors to final approach course.

LANDING RUNWAY 20R: From OHSEA on track 111° to cross STYFF at or below 9000, then on track 080° to cross KAYNN at or below 7000, then on track 057° to cross LAXBB at 5000, then on track 044° to cross KLEVR at 5000, then on track 016° to cross BHEAR at 5000, then on track 016°. Expect RNAV (RNP) Z RWY 20R or vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 20R: After BHEAR turn right direct SAGER and proceed on the ILS or LOC RWY 20R approach.

LANDING RUNWAY 2L: Proceed on LOC BC RWY 2L, RNAV (GPS) Y RWY 2L or RNAV (RNP) Z RWY 2L.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

OLAAA TWO ARRIVAL (RNAV)

(AMMOR.OLAAA2) 05DEC19

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

OLAAA TWO ARRIVAL (RNAV)

(AMMOR.OLAAA2) 19339

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

AL-237 (FAA)

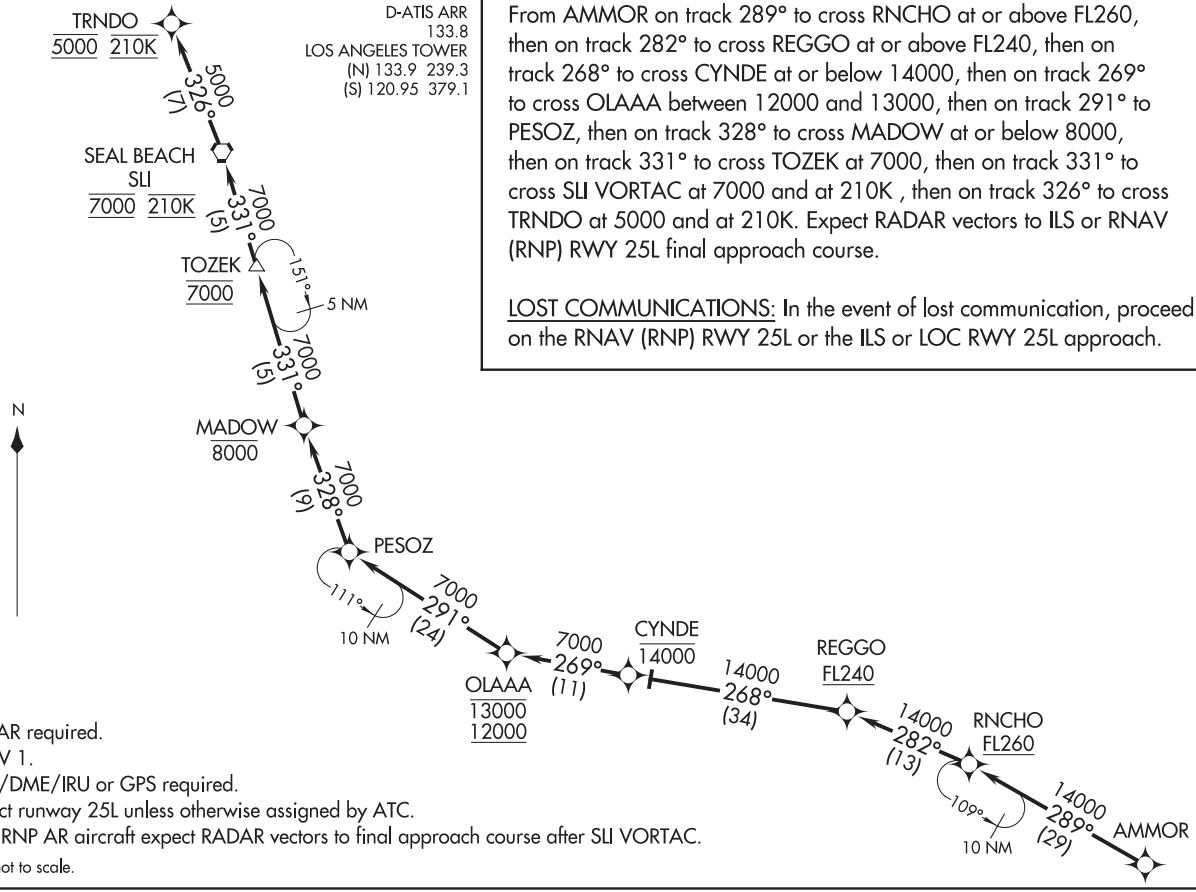
Z57

SOCAL APP CON
128.1 281.4
D-ATIS ARR
133.8
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1

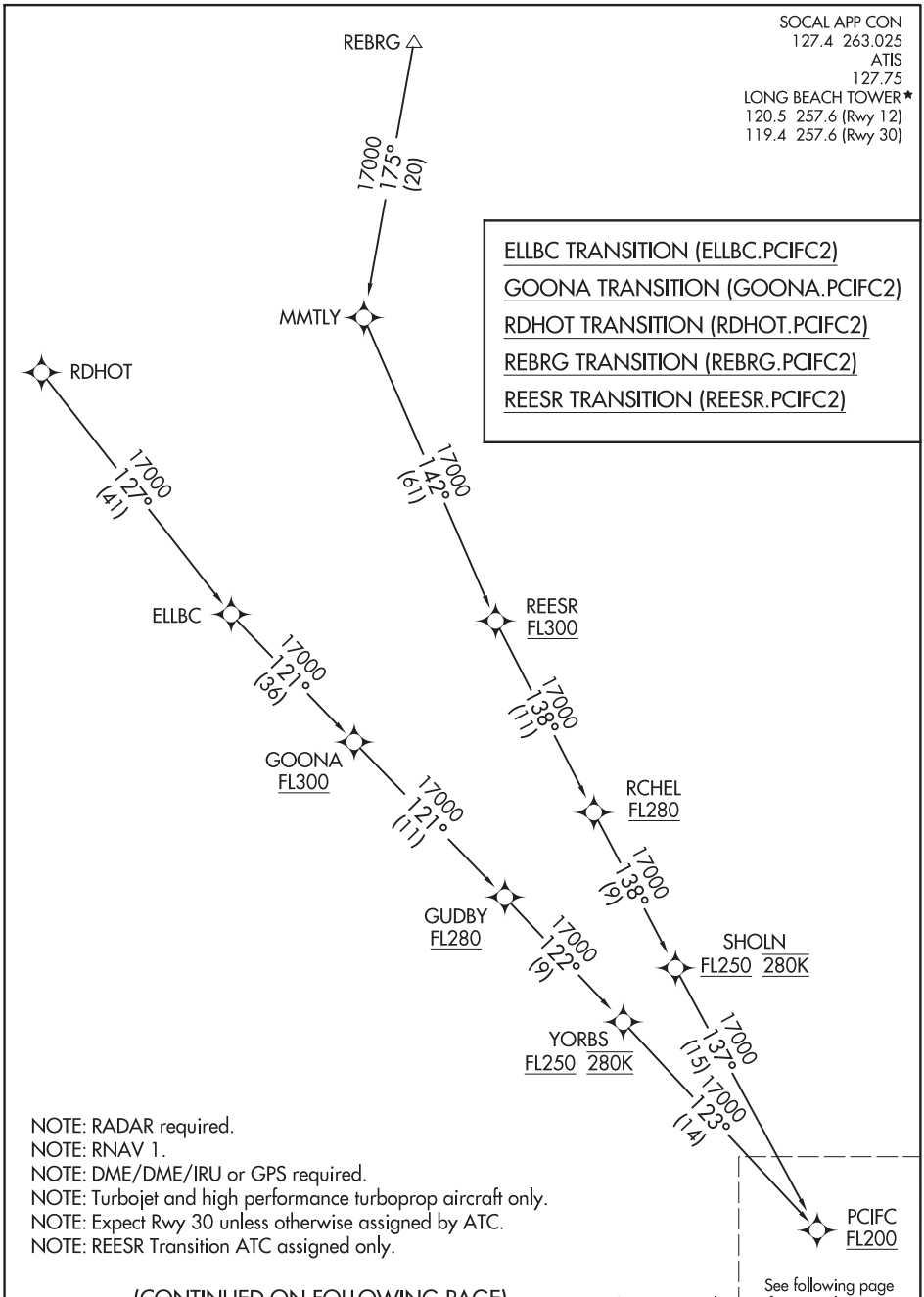
ARRIVAL ROUTE DESCRIPTION

From AMMOR on track 289° to cross RNCHO at or above FL260, then on track 282° to cross REGGO at or above FL240, then on track 268° to cross CYNDE at or below 14000, then on track 269° to cross OLAAA between 12000 and 13000, then on track 291° to PESOZ, then on track 328° to cross MADOW at or below 8000, then on track 331° to cross TOZEK at 7000, then on track 331° to cross SLI VORTAC at 7000 and at 210K , then on track 326° to cross TRNDO at 5000 and at 210K. Expect RADAR vectors to ILS or RNAV (RNP) RWY 25L final approach course.

LOST COMMUNICATIONS: In the event of lost communication, proceed on the RNAV (RNP) RWY 25L or the ILS or LOC RWY 25L approach.



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect runway 25L unless otherwise assigned by ATC.
NOTE: Non-RNP AR aircraft expect RADAR vectors to final approach course after SLI VORTAC.
NOTE: Chart not to scale.

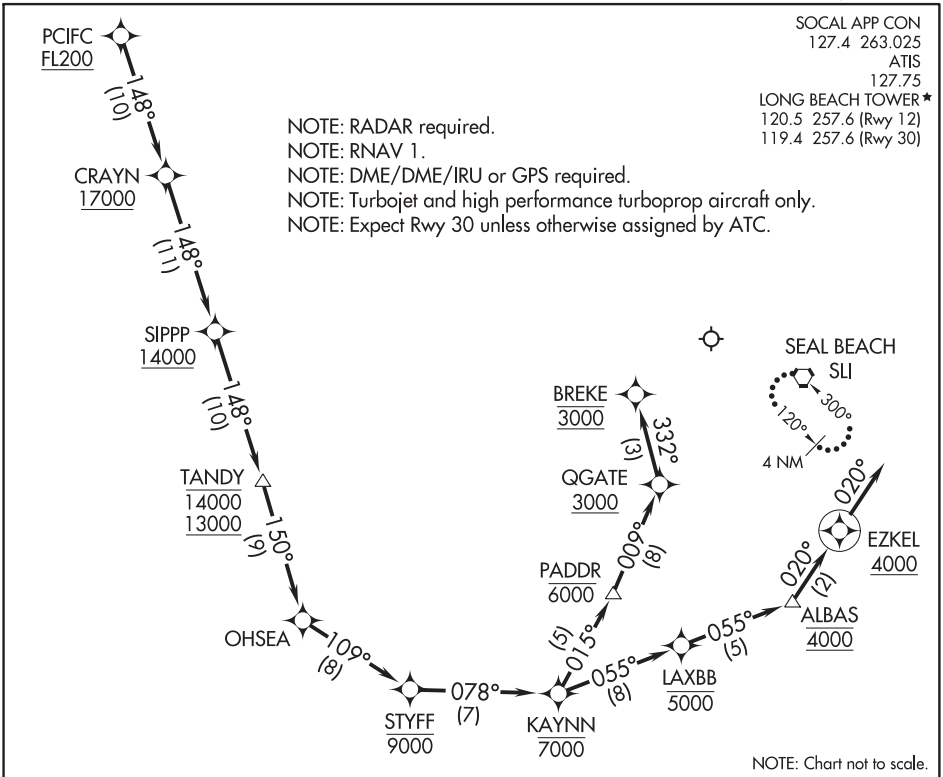


SW-3, 05 NOV 2020 to 31 DEC 2020

(PCIFC.PCIFC2) 19059 AL-236 (FAA)

PCIFC TWO ARRIVAL (RNAV) Arrival Routes

LONG BEACH/DAUGHERTY FIELD (LGB)
LONG BEACH, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

From PCIFC on track 148° to cross CRAYN at or above 17000, then on track 148° to cross SIPPP at or above 14000, then on track 148° to cross TANDY between 13000 and 14000, then on track 150° to OHSEA, then on track 109° to cross STYFF at or below 9000.

LANDING RUNWAY 12: From STYFF on track 078° to cross KAYNN at or below 7000, then on track 015° to cross PADDR at or below 6000, then on track 009° to cross QGATE at or above 3000, then on track 332° to cross BREKE at 3000. Expect RNAV (RNP) RWY 12 approach.

LANDING RUNWAYS 26R, 30: From STYFF on track 078° to cross KAYNN at or below 7000, then on track 055° to cross LAXBB at or below 5000, then on track 055° to cross ALBAS at 4000, then on track 020° to cross EZKEL at or above 4000, then on track 020°. Expect RNAV (RNP) Y RWY 30 or RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAYS 26R, 30: After ALBAS proceed on the RNAV (RNP) Y RWY 30 or ILS or LOC RWY 30 approach.

LANDING RUNWAY 12: After BREKE proceed on the RNAV (RNP) RWY 12 approach.

If unable approach to LGB, after ALBAS/BREKE climb to 4000 direct SLI VORTAC and hold.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

PITBL ONE ARRIVAL (RNAV)

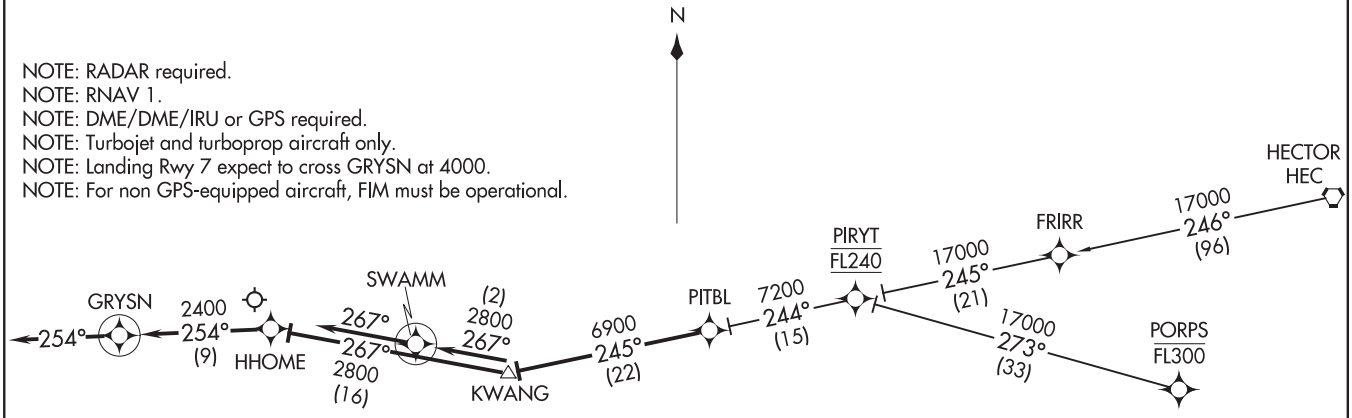
(PITBL.PITBL1) 10NOV16

SANTA BARBARA, CALIFORNIA

SANTA BARBARA MUNI (SBA)

SANTA BARBARA APP CON
120.55 319.15
ATIS
132.65

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Landing Rwy 7 expect to cross GRYSN at 4000.
NOTE: For non GPS-equipped aircraft, FIM must be operational.



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.PITBL1)

PORPS TRANSITION (PORPS.PITBL1)

LANDING RUNWAY 7: From PITBL on track 245° to KWANG, then on track 267° to HHOME, then on track 254° to GRYSN, then on track 254°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 25: From PITBL on track 245° to KWANG, then on track 267° to SWAMM, then on track 267°. Expect RADAR vectors to final approach course.

(PITBL.PITBL1) 16315

PITBL ONE ARRIVAL (RNAV)

AL-378 (FAA)

SANTA BARBARA MUNI (SBA)

SANTA BARBARA, CALIFORNIA

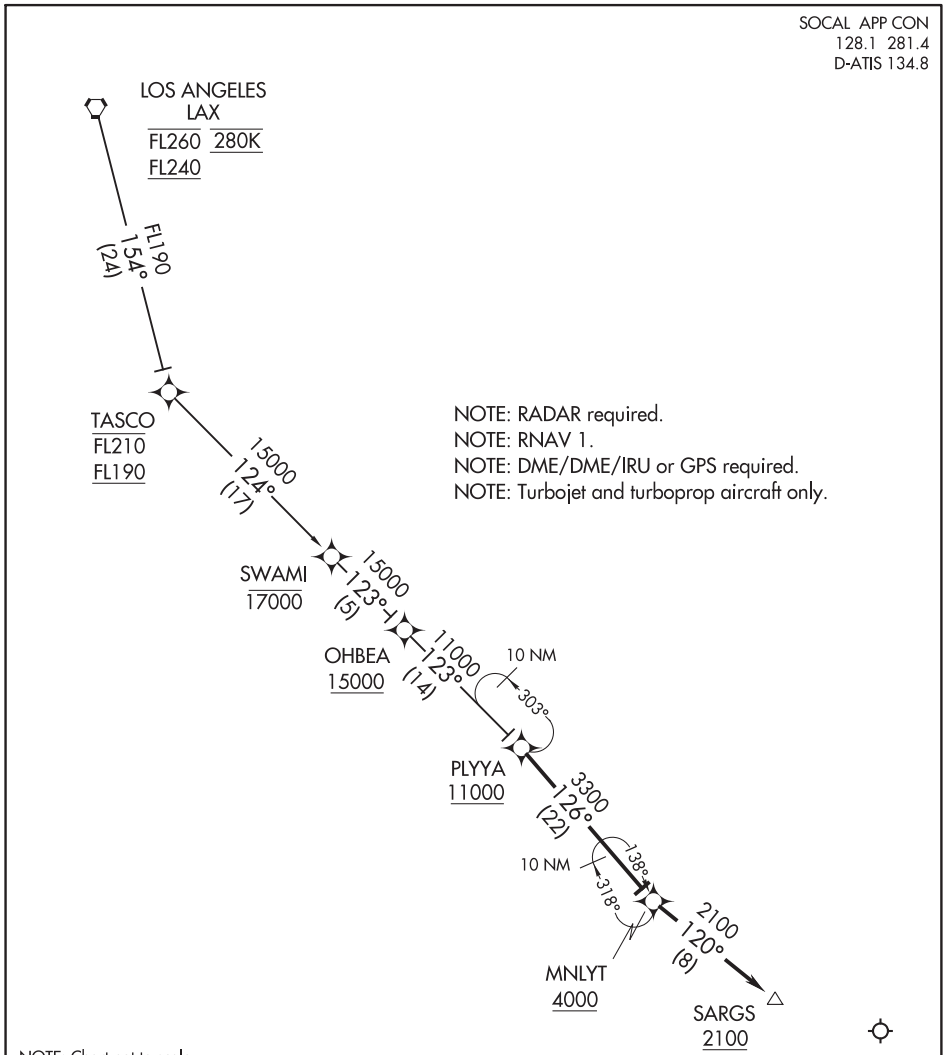
Z60

(PLYYA.PLYYA1) 17173

PLYYA ONE ARRIVAL (RNAV)

AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CAILFORNIA

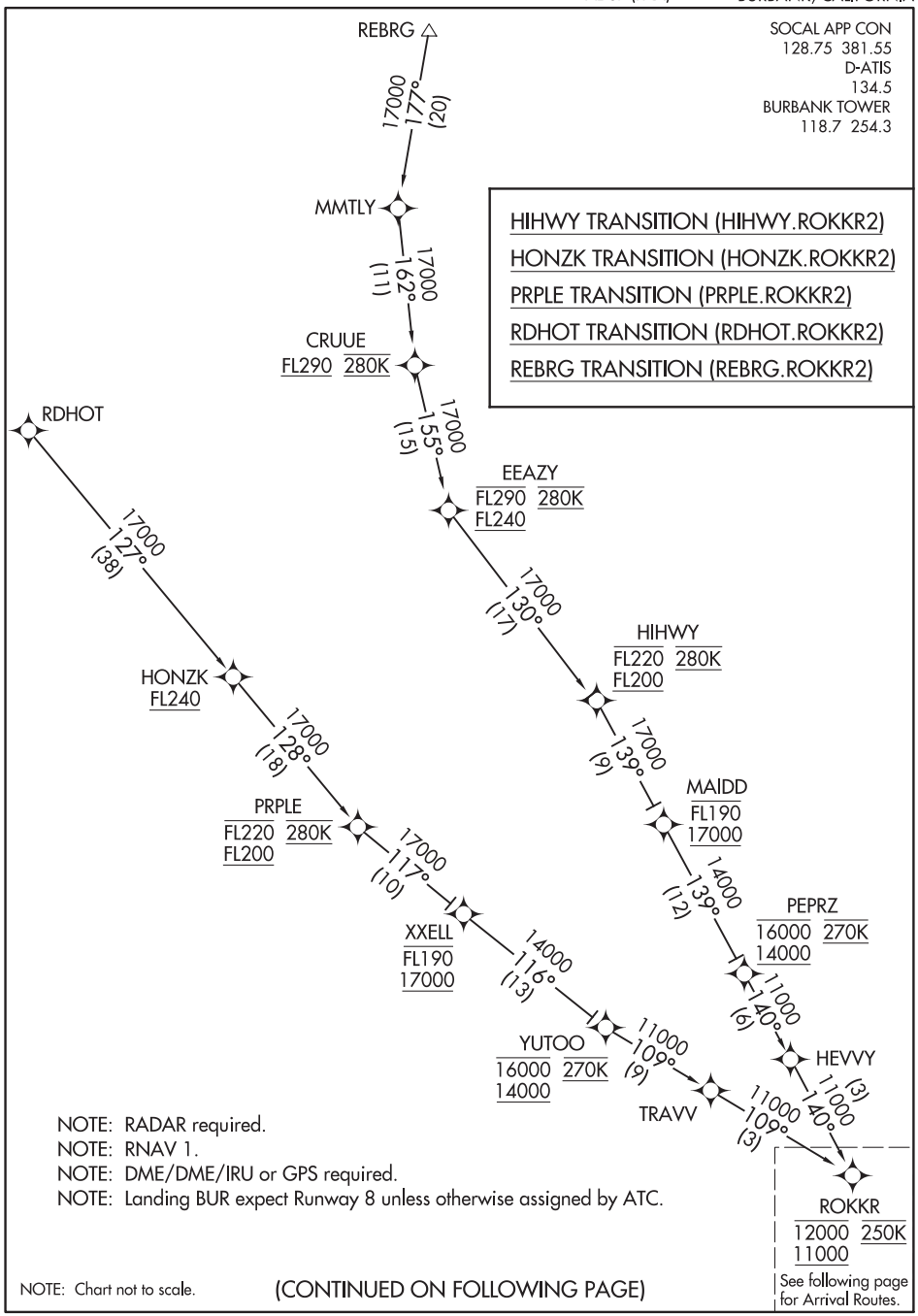


SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

LOS ANGELES TRANSITION (LAX.PLYYA1)

From PLYYA on track 126° to cross MNLYT at or above 4000.
LANDING RUNWAY 9: From MNLYT on track 120° to cross SARGS at or above 2100.
Expect ILS or LOC RWY 9 approach.



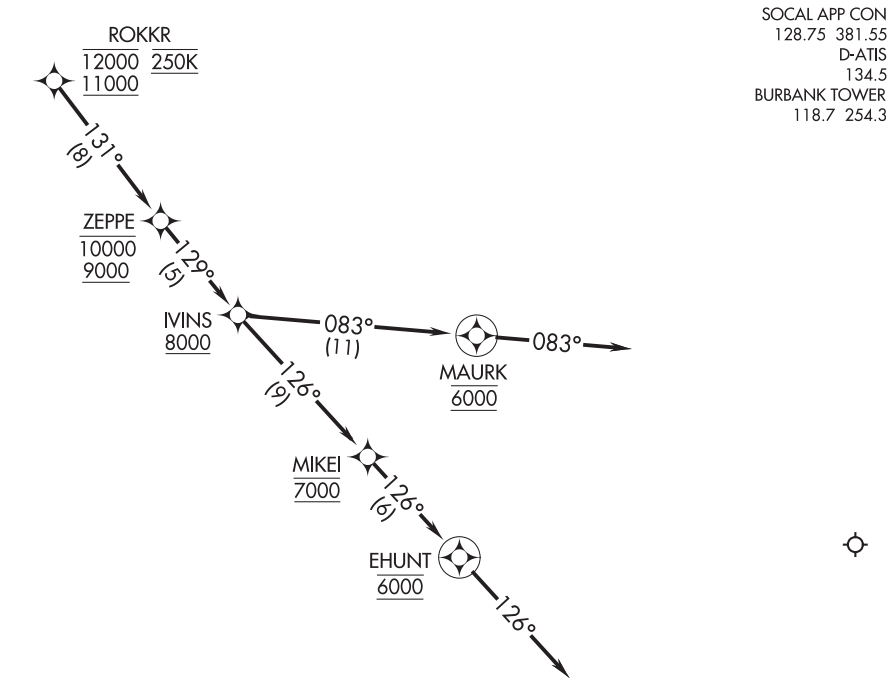
SW-3, 05 NOV 2020 to 31 DEC 2020

(ROKKR.ROKKR2) 18088

ROKKR TWO ARRIVAL (RNAV) Arrival Routes

AL-67 (FAA)

BOB HOPE (BUR)
BURBANK, CALIFORNIA



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Landing BUR expect Runway 8 unless otherwise assigned by ATC.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

From ROKKR on track 131° to cross ZEPPE between 9000 and 10000, then on track 129° to cross IVINS at or above 8000.

KBUR RUNWAY 8: From IVINS on track 126° to cross MIKEI at 7000. Expect ILS or LOC RWY 8 approach.

KBUR RUNWAY 15: From IVINS on track 083° to cross MAURK at 6000, then on track 083°. Expect RADAR vectors to final approach course.

KBUR RUNWAY 33: From IVINS on track 126° to cross MIKEI at 7000, then on track 126° to cross EHUNT at 6000, then on track 126°. Expect RADAR vectors to final approach course.

ROOBY THREE ARRIVAL (RNAV) Transition Routes

(ROOBY.ROOBY3) 01FEB18

LONG BEACH, CALIFORNIA

Z64

EMLLD TRANSITION (EMLLD.ROOBY3)
FEYLA TRANSITION (FEYLA.ROOBY3)
HIMDU TRANSITION (HIMDU.ROOBY3)
LRSON TRANSITION (LRSON.ROOBY3)
MARUE TRANSITION (MARUE.ROOBY3)
NATEE TRANSITION (NATEE.ROOBY3)
NEEDLES TRANSITION (EED.ROOBY3)

SOCAL APP CON
134.0 278.3
LONG BEACH/DAUGHERTY FIELD
ATIS 127.75
JOHN WAYNE AIRPORT-
ORANGE COUNTY D-ATIS
126.0

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Procedure is only for use when SNA is landing north.
NOTE: Landing LGB expect Runway 30 unless otherwise assigned by ATC.
NOTE: Landing SNA expect Runway 2L unless otherwise assigned by ATC.
NOTE: Expect local area altimeter reaching FL230.
NOTE: FEYLA transition restricted to LAS departures only.
NOTE: LRSON transition ATC assigned only.

N

ROOBY 10000
6000 190° (9)
JRDDN 12000
9000 192° (13)
KADYN 13000
10800 197° (7)
AASPN 14000
10800 210° (6)
CARZZ 15000
13000 210° (14)
DUUNN FL200
13000 205° (15)
GITRR FL250 280K
17000 212° (17)
LRSON FL280
17000 212° (30)
FEYLA
17000 214° (35)
NATEE
17000 239° (29)
FJAYY
17000 239° (22)
SCROW
059° 10 NM
17000 239° (24)
MARUE

6100 249° (16)
PHIYA 14000 12000
10700 249° (11)
ROADE FL190 17000
13000 247° (11)
BRCKK FL210
13000 248° (11)
CHURO FL240 280K
13000 248° (6)
DRTHI
17000 247° (32)
FOVOL
MDLER
10 NM 039° 219°
261° 17000 (28)
WTTCH FL300
17000 218° (39)
ONLYY
17000 218° (30)
NEEDLES EED
17000 241° (32)
THERS
17000 241° (14)
WURMO
17000 241° (20)
WEELL
17000 241° (15)
HIMDU
17000 264° (37)
LITNG
084° 10 NM
17000 264° (39)
EMLLD

See following page for Arrival Routes.

(CONTINUED ON FOLLOWING PAGE)

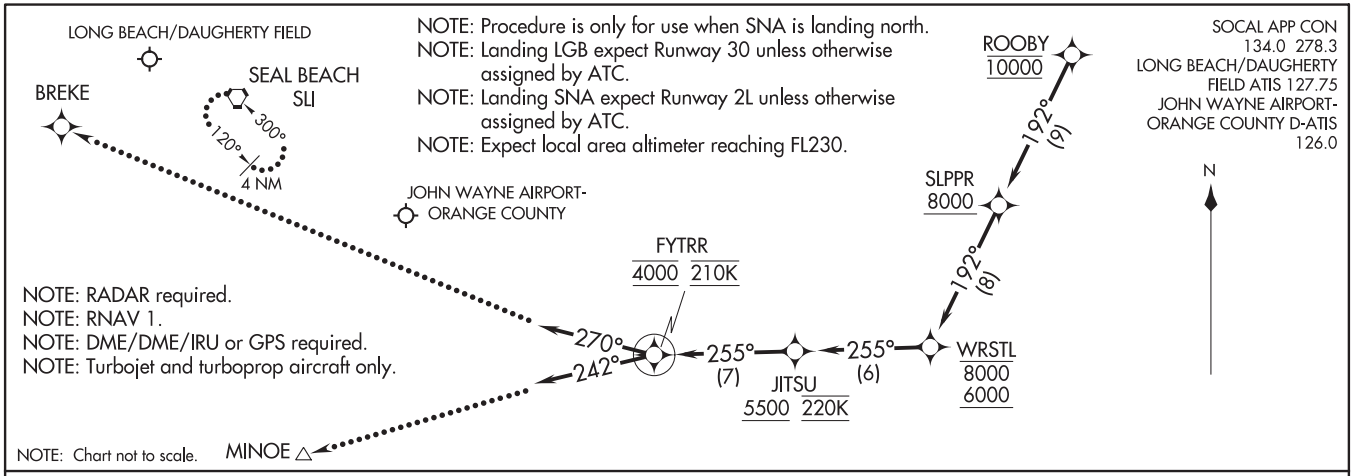
NOTE: Chart not to scale.

ROOBY THREE ARRIVAL (RNAV) Transition Routes

(ROOBY.ROOBY3) 18032

AL-236 (FAA)

LONG BEACH, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

LANDING LGB: From ROOBY on track 192° to cross SLPPR at or above 8000, then on track 192° to cross WRSTL between 6000 and 8000, then on track 255° to cross JITSU at or above 5500 and at 220K, then on track 255° to cross FYTRR at 4000 and at 210K, then on heading 270° or as assigned by ATC. Expect RADAR vectors to final approach course.

LANDING SNA: From ROOBY on track 192° to cross SLPPR at or above 8000, then on track 192° to cross WRSTL between 6000 and 8000, then on track 255° to cross JITSU at or above 5500 and at 220K, then on track 255° to cross FYTRR at 4000 and at 210K, then on heading 242° or as assigned by ATC. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS:
LANDING LGB RUNWAY 30: Intercept and proceed on the RNAV (RNP) RWY 30 or ILS RWY 30 approach.
LANDING LGB RUNWAY 12: Maintain 3000 and proceed direct BREKE then on the RNAV (RNP) RWY 12 approach. If unable approach to LGB climb to 4000 direct SLI VORTAC and hold.
LANDING SNA RUNWAY 2L: Proceed on the RNAV (RNP) RWY 2L approach or maintain 3000 and proceed direct MINOE then on the LOC BC RWY 2L approach. If unable approach to SNA climb to 5000 direct SLI VORTAC and hold.

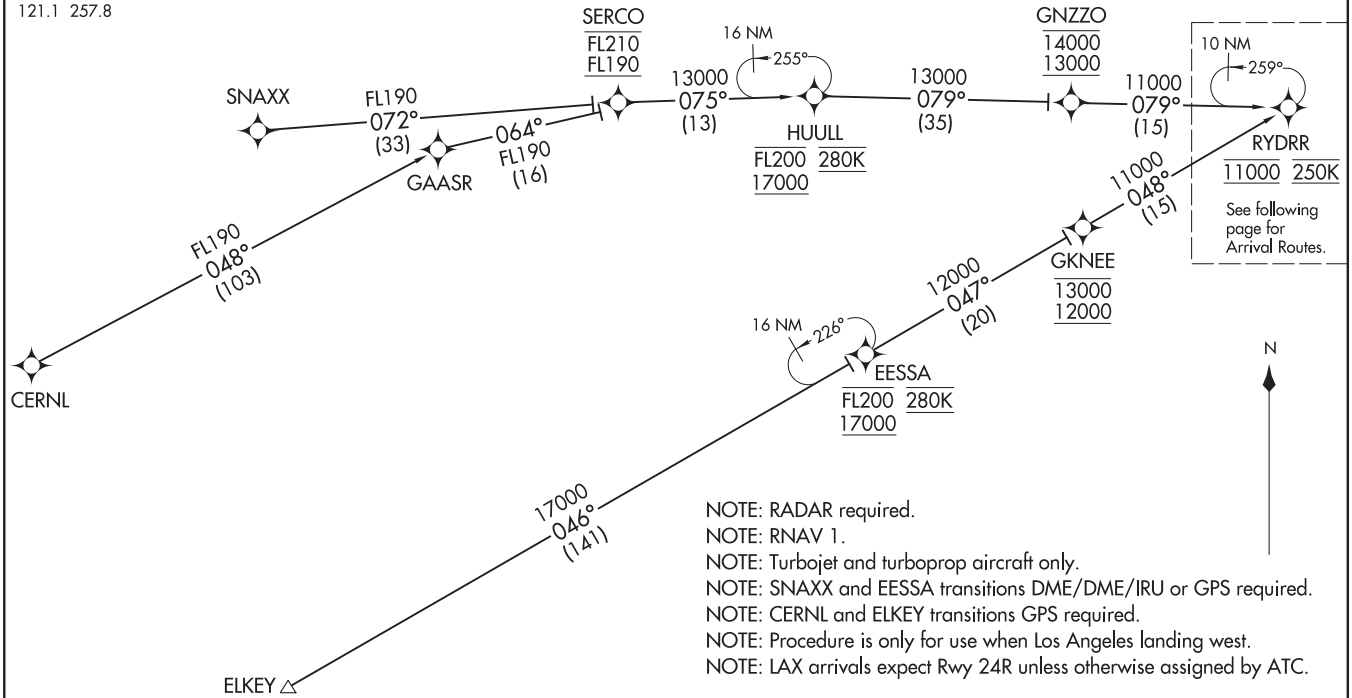
RYDRR TWO ARRIVAL (RNAV) Transition Routes

(RYDRR.RYDRR2) 24MAY18

LOS ANGELES, CALIFORNIA

SOCAL APP CON
124.5 235.975
LOS ANGELES INTL D-ATIS ARR
133.8
JACK NORTHRUP FIELD/HAWTHORNE MUNI ATIS
118.4
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
HAWTHORNE TOWER ★
121.1 257.8

CERNL TRANSITION (CERNL.RYDRR2)
EESSA TRANSITION (EESSA.RYDRR2)
ELKEY TRANSITION (ELKEY.RYDRR2)
SNAXX TRANSITION (SNAXX.RYDRR2)



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Turbojet and turboprop aircraft only.
NOTE: SNAXX and EESSA transitions DME/DME/IRU or GPS required.
NOTE: CERNL and ELKEY transitions GPS required.
NOTE: Procedure is only for use when Los Angeles landing west.
NOTE: LAX arrivals expect Rwy 24R unless otherwise assigned by ATC.

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

RYDRR TWO ARRIVAL (RNAV) Transition Routes

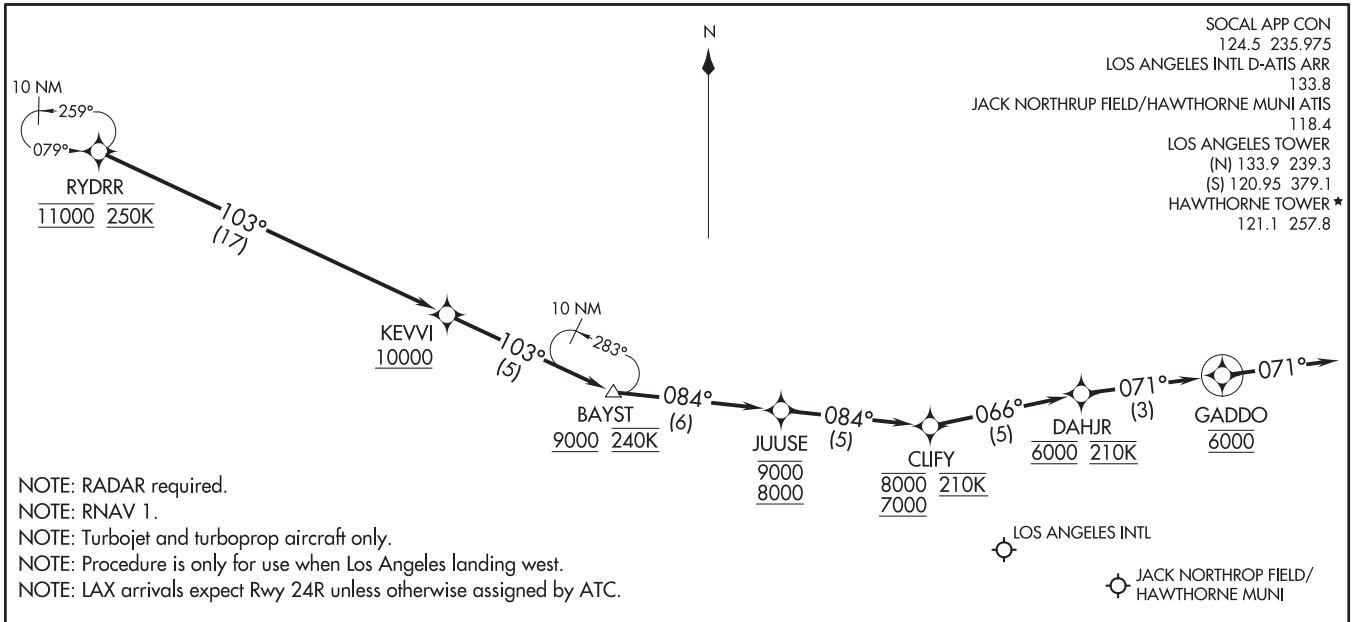
(RYDRR.RYDRR2) 18144

LOS ANGELES, CALIFORNIA

AL-237 (FAA)

Z66

(RYDRR.RYDRR2) 18144
RYDR TWO ARRIVAL (RNAV) Arrival Routes
AL-237 (FAA)
Z67
LOS ANGELES, CALIFORNIA



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

LANDING KLAX/KHHR: From RYDRR on track 103° to cross KEVVI at or above 10000, then on track 103° to cross BAYST at or above 9000 and at 240K, then on track 084° to cross JUUSE between 8000 and 9000, then on track 084° to cross CLIFY between 7000 and 8000 and at 210K, then on track 066° to cross DAHJR at 6000 and at 210K, then on track 071° to cross GADDO at 6000, then on track 071°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

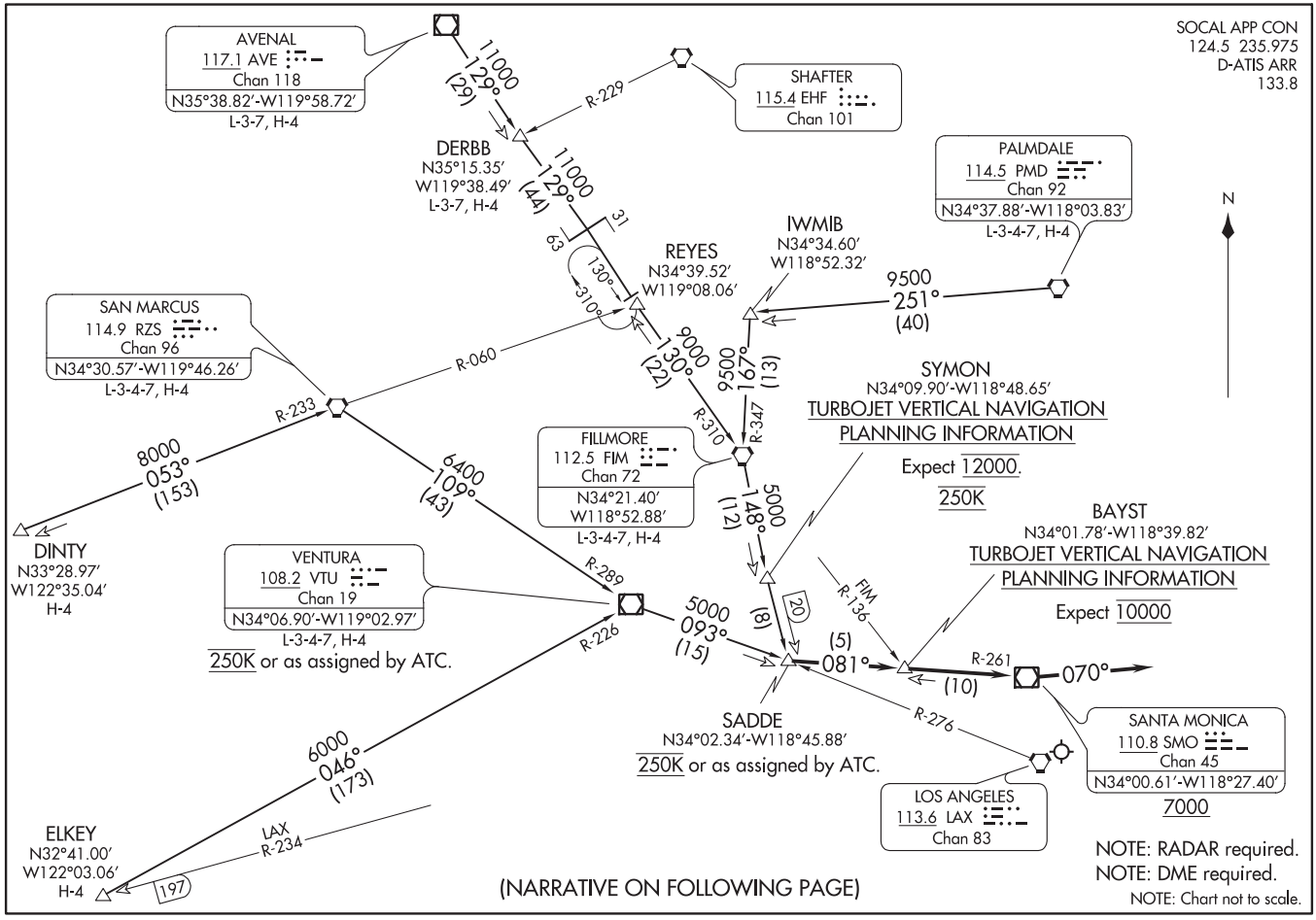
In the event of lost communications: RNP LAX arrivals proceed on the RNAV (RNP) Z RWY 24R approach at DAHJR or proceed on the ILS or LOC RWY 24R.

SADDE EIGHT ARRIVAL

(SADDE.SADDE8) 07DEC17

LOS ANGELES, CALIFORNIA

LOS ANGELES INTL (LAX)



(SADDE.SADDE8) 20310

SADDE EIGHT ARRIVAL

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

AL-237 (FAA)

Z68

ARRIVAL ROUTE DESCRIPTION

AVENAL TRANSITION (AVE.SADDE8): From over AVE VOR/DME on AVE R-129 and FIM R-310 to FIM VORTAC, then on FIM R-148 to SADDE. Thence. . . .

DERBB TRANSITION (DERBB.SADDE8): From over DERBB on AVE R-129 and FIM R-310 to FIM VORTAC, then on FIM R-148 to SADDE. Thence. . . .

DINTY TRANSITION (DINTY.SADDE8): From over DINTY on RZS R-233 to RZS VORTAC, then on RZS R-109 and VTU R-289 to VTU VOR/DME, then on VTU R-093 to SADDE. Thence. . . .

ELKEY TRANSITION (ELKEY.SADDE8): From over ELKEY on VTU R-226 to VTU VOR/DME then on VTU R-093 to SADDE. Thence. . . .

FILLMORE TRANSITION (FIM.SADDE8): From over FIM VORTAC on FIM R-148 to SADDE. Thence. . . .

PALMDALE TRANSITION (PMD.SADDE8): From over PMD VORTAC on PMD R-251 and FIM R-347 to FIM VORTAC, then on FIM R-148 to SADDE. Thence. . . .

SAN MARCUS TRANSITION (RZS.SADDE8): From over RZS VORTAC on RZS R-109 and VTU R-289 to VTU VOR/DME, then on VTU R-093 to SADDE. Thence. . . .

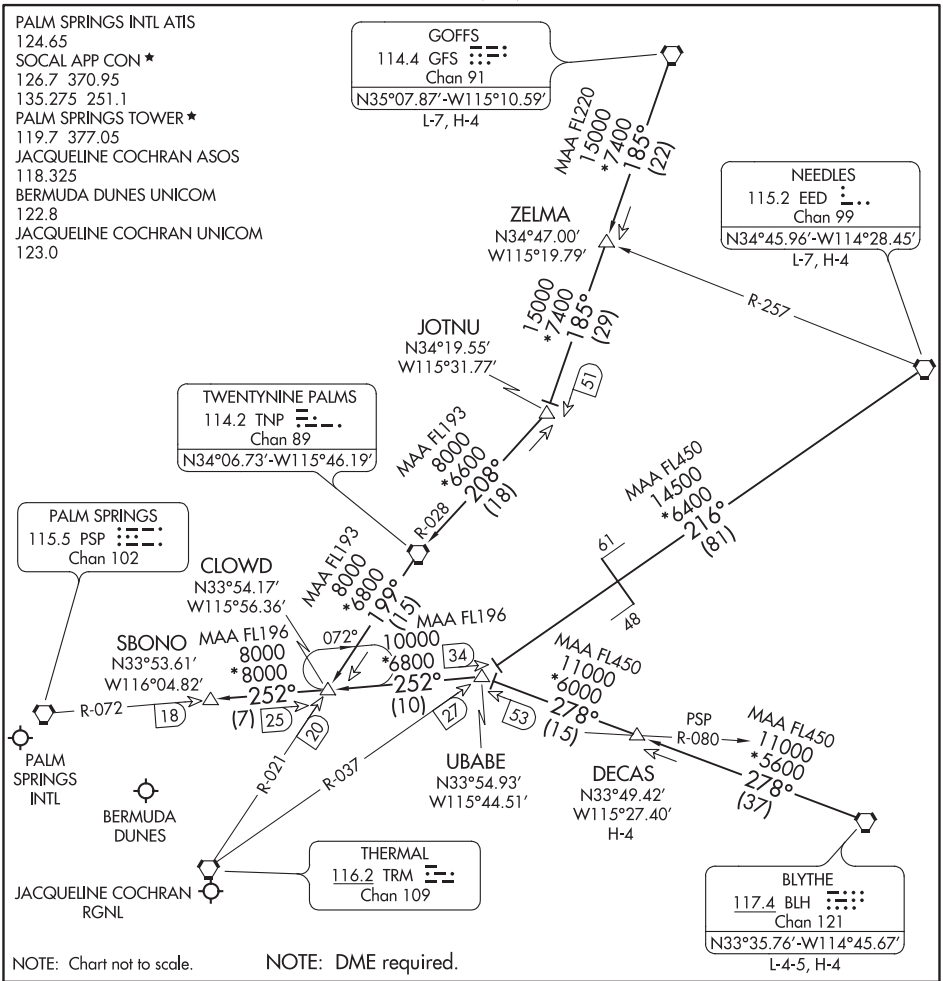
VENTURA TRANSITION (VTU.SADDE8): From over VTU VOR/DME on VTU R-093 to SADDE. Thence. . . .

. . . From SADDE on SMO VOR/DME R-261 to cross SMO VOR/DME at or above 7000. Then on heading 070°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

In the event of lost communications proceed on the ILS or LOC RWY 24R.

SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

BLYTHE TRANSITION (BLH.SBONO1): From over BLH VORTAC on BLH R-278 and PSP R-072 to SBONO DME. Thence. . . .

DECAS TRANSITION (DECAS.SBONO1): From over DECAS INT on BLH R-278 and PSP R-072 to SBONO DME. Thence. . . .

GOFFS TRANSITION (GFS.SBONO1): From over GFS VORTAC on GFS R-185 and TNP R-028 to TNP VORTAC, then on TNP R-199 and PSP R-072 to SBONO DME. Thence. . . .

NEEDLES TRANSITION (EED.SBONO1): From over EED VORTAC on EED R-216 and TRM R-037 to UBABE DME, then on PSP R-072 to SBONO DME. Thence. . . .

. . . .From over SBONO DME expect RADAR vectors to final approach course.

(SCBBY.SCBBY2) 18032

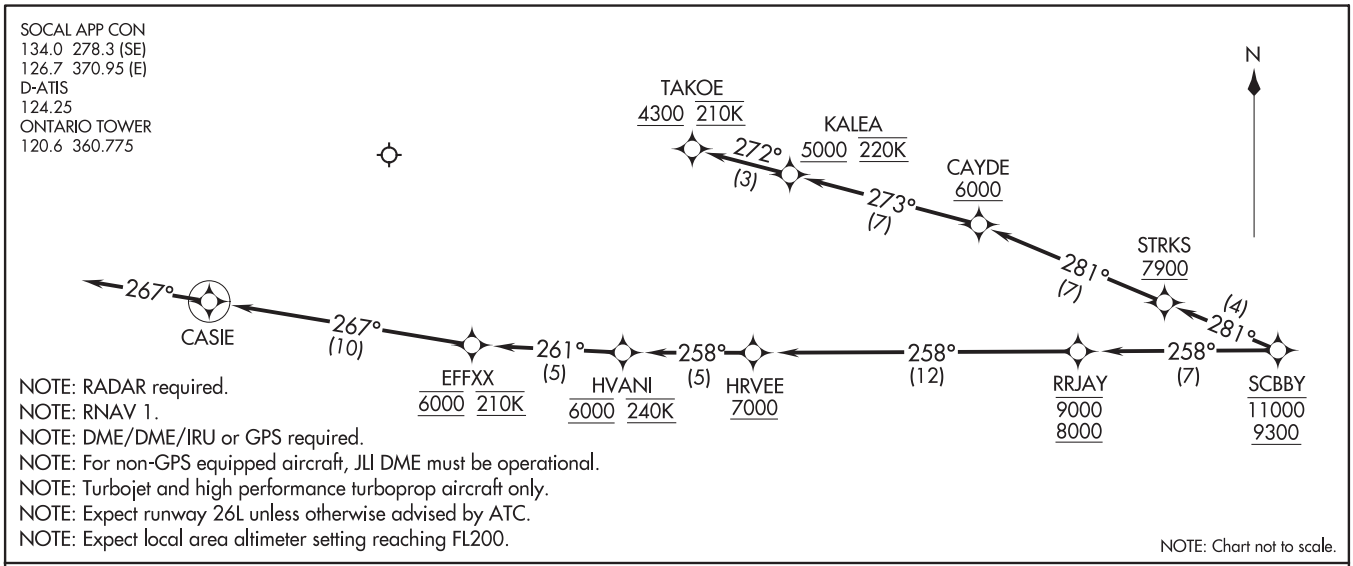
SCBBY TWO ARRIVAL (RNAV) Transition Routes

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SCBBY TWO ARRIVAL (RNAV) Transition Routes
(SCBBY.SCBBY2) 01FEB18
ONTARIO, CALIFORNIA
ONTARIO INTL (ONT)



ARRIVAL ROUTE DESCRIPTION

LANDING RUNWAYS 8L/R: From SCBBY on track 258° to cross RRJAY between 8000 and 9000, then on track 258° to cross HRVEE at or above 7000, then on track 258° to cross HVANI at 6000 and at 240K, then on track 261° to cross EFFXX at 6000 and at 210K, then on track 267° to CASIE, then on track 267°. Expect RNAV (RNP) Z RWY 8L approach or RADAR vectors to final approach course.

LANDING RUNWAYS 26L/R: From SCBBY on track 281° to cross STRKS at or above 7900, then on track 281° to cross CAYDE at or above 6000, then on track 273° to cross KALEA at or above 5000 and at 220K, then on track 272° to cross TAKOE at or above 4300 and at 210K. Expect assigned instrument approach or RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING WEST: Proceed on the RNAV (RNP) Z RWY 26L approach or ILS or LOC RWY 26L approach.

LANDING EAST: Proceed on the RNAV (RNP) Z RWY 8L approach or ILS or LOC RWY 8L approach.

(SEAVU.SEAVU2) 20310

SEAVU TWO ARRIVAL

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ARRIVAL ROUTE DESCRIPTION

TWENTYNINE PALMS TRANSITION (TNP.SEAVU2):
From over TNP VORTAC on TNP R-245 and PDZ R-069 to CATAW, then on POM R-098 to SEAVU.

LOST COMMUNICATIONS: In the event of lost communication prior to runway assignment proceed via ILS Rwy 25L.

SW-3, 05 NOV 2020 to 31 DEC 2020

SEAVU TWO ARRIVAL
(SEAVU.SEAVU2) 25SEP08

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

JULIAN TRANSITION (JLI.SETER5): From over JLI VORTAC on JLI R-315 to SETER. Thence. . . .
PALM SPRINGS TRANSITION (PSP.SETER5): From over PSP VORTAC on PSP R-260 to BANDS, then on PDZ R-078 to SETER. Thence. . . .

LANDING ONTARIO INTL
RUNWAYS 26L/R: From over SETER on SB NDB 292° course to SB NDB; expect ILS approach.
RUNWAYS 8L/R: From over SETER on PDZ R-078 to BERDU, then on PDZ R-078 to PDZ VORTAC; expect vectors to final approach course.

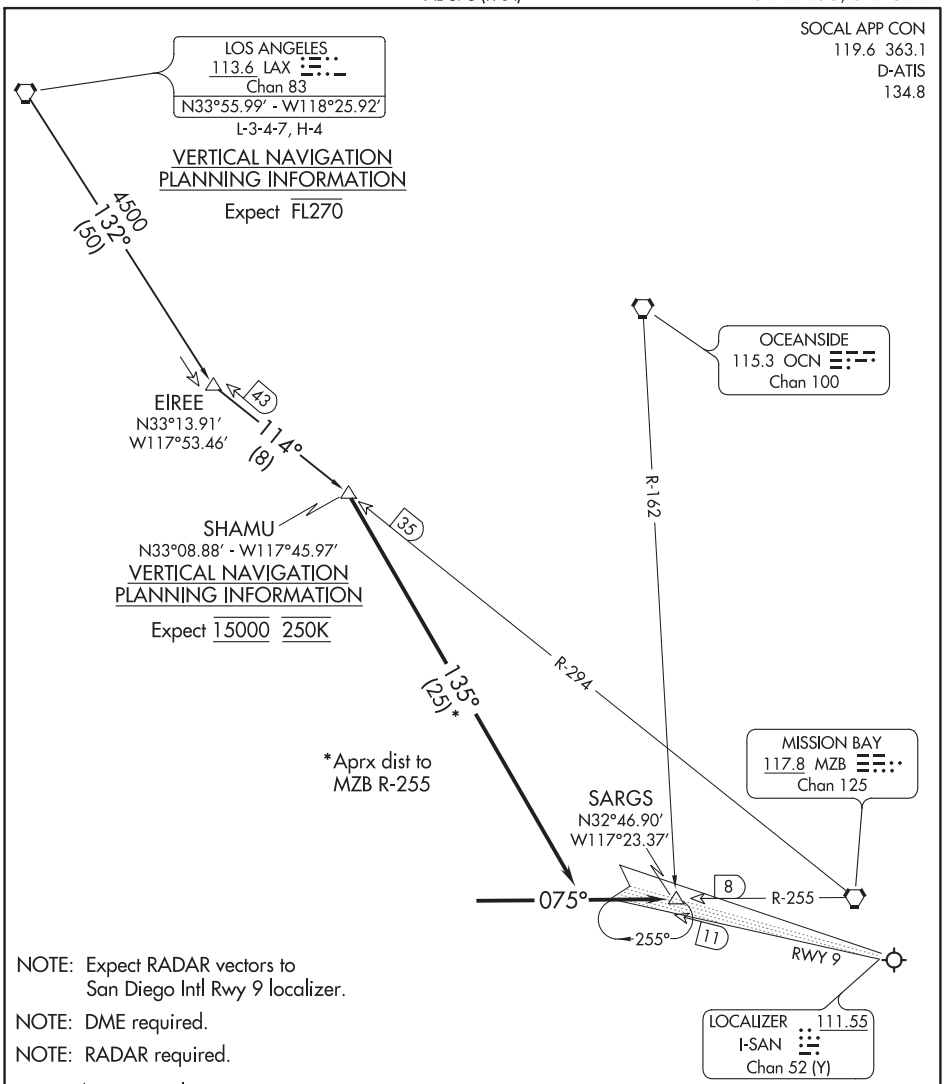
ALL OTHER AIRPORTS
From over SETER via PDZ R-078 to BERDU, then on PDZ R-078 to PDZ VORTAC; expect vectors to final approach course.

(SHAMU.SHAMU1) 17173

SHAMU ONE ARRIVAL

AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

LOS ANGELES TRANSITION (LAX.SHAMU1): From over LAX VORTAC via LAX R-132 and MZB R-294 to SHAMU FIX. Thence. . . .

. . . .From over SHAMU FIX via heading 135° to intercept MZB R-255 then via MZB R-255 to SARGS INT. Expect RADAR vectors to SAN Rwy 9 localizer.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION
CLASN TRANSITION (CLASN.SIZLR3)
OYVEY TRANSITION (OYVEY.SIZLR3)
LANDING ALL AIRPORTS: From SIZLR on track 103° to MXIMO, then on track 103° to HITOP, then on track 106° to cross PZUKY at 16000, then on track 106° to cross BITTY at 16000, then on track 106° to cross MORON at 14000, then on track 095° to cross FERNN at 11000, then on track 123° to cross PSP VORTAC at 9000, then on track 124° to cross DEZZY at 9000, then on track 124°. Expect RADAR vectors to final approach course.
LOST COMMUNICATIONS
Proceed direct TRM VORTAC and execute the VOR or GPS-B approach.
PALM SPRINGS INTL ATIS 124.65
SOCAL APP CON 134.0 278.3
PALM SPRINGS INTL TOWER ★ 119.7 377.05
BERMUDA DUNES UNICOM 122.8
JACQUELINE COCHRAN UNICOM 123.0
OYVEY
15000
158°
(12)
SOSHA
KARNY
15000
158°
(12)
15000
133°
(16)
RABBL
15000
133°
(29)
CLASN
15000
119°
(31)
MURDY
15000
120°
(47)
GIRNO
FL240
15000
113°
(20)
SIZLR
FL230
FL200
103°
(18)
MXIMO
103°
(20)
HITOP
106°
(6)
PZUKY
16000
106°
(17)
BITTY
16000
106°
(10)
MORON
14000
095°
(12)
FERNN
11000
123°
(9)
PALM SPRINGS INTL
124°
(2)
PALM SPRINGS
PSP
9000
DEZZY
9000
124°
BERMUDA DUNES
THERMAL
TRM
JACQUELINE COCHRAN RGNL
N
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Chart not to scale.

(AMMOR.SNSTT2) 18032

SNSTT TWO ARRIVAL (RNAV)

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

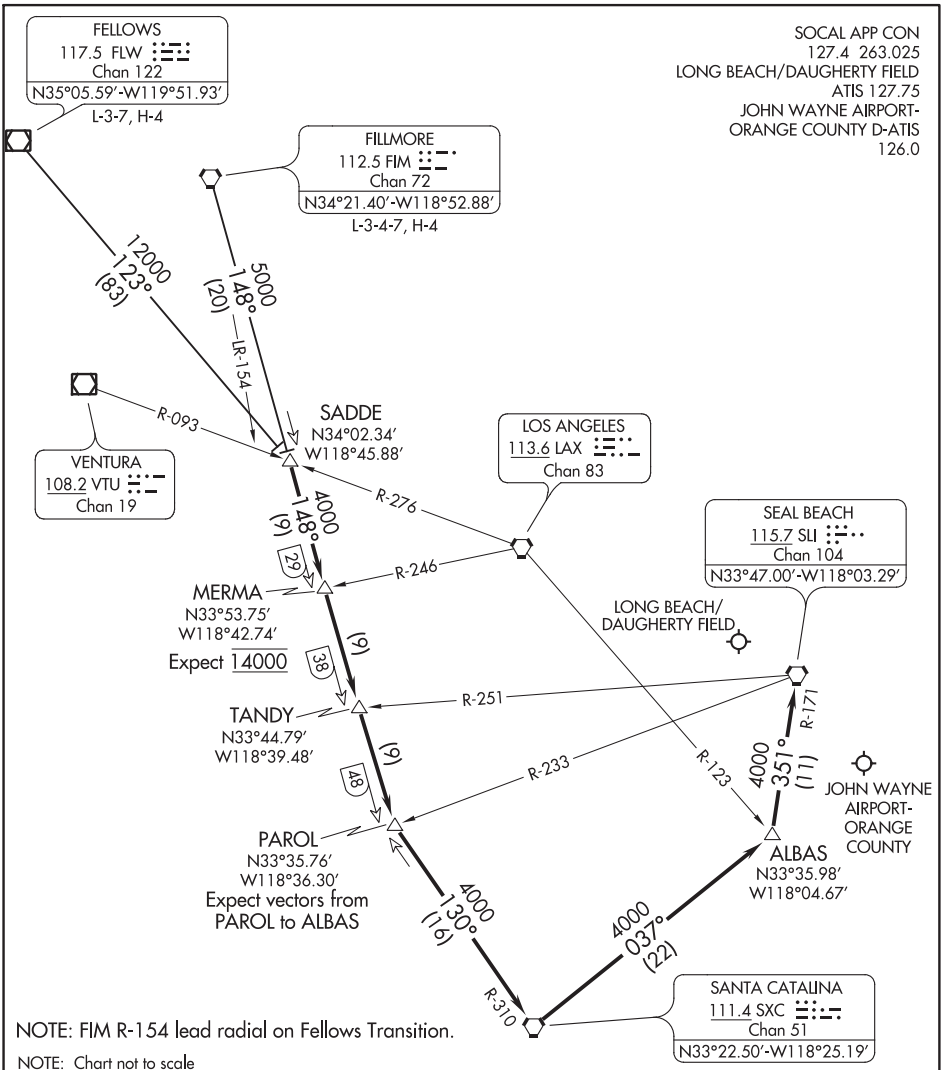
ARRIVAL ROUTE DESCRIPTION

From AMMOR on track 289° to cross RNCHO at or above FL260, then on track 298° to cross SNSTT between FL240 and FL260 and at 280K, then on track 328° to cross SOLAY at or below FL190, then on track 316° to cross LAHVA at 17000, then on track 287° to cross LAAMP at or above 15000, then on track 287° to cross SNDDR at or above 14000, then on track 287° to cross SEAVU between 12000 and 14000 and at 270K. Expect ILS or RNAV (RNP) RWY 25L approach.

LOST COMMUNICATIONS

In the event of lost communication prior to runway assignment proceed on ILS or LOC RWY 25L.

SNSTT TWO ARRIVAL (RNAV)
(AMMOR.SNSTT2) 01FEB18
LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)



ARRIVAL ROUTE DESCRIPTION

FELLOWS TRANSITION (FLW.TANDY5): From over FLW VOR/DME on FLW R-123 to SADDE. Thence. . . .

FILLMORE TRANSITION (FIM.TANDY5): From over FIM VORTAC on FIM R-148 to SADDE. Thence. . . .

. . . .From over SADDE on FIM R-148 to PAROL. From over PAROL on SXC R-310 to SXC VORTAC. Then from over SXC VORTAC on SXC R-037 to ALBAS. Then from ALBAS on SLI R-171 to SLI VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(THRNE.THRNE3) 18088

THRNE THREE ARRIVAL (RNAV) Transition Route

AL-67 (FAA) BURBANK, CALIFORNIA

SOCAL APP CON 126.7 370.95
BOB HOPE D-ATIS 134.5
BURBANK TOWER 118.7 254.3
SANTA MONICA ATIS 119.15
SANTA MONICA TOWER★ 120.1 257.8
VAN NUYS ATIS 127.55
VAN NUYS TOWER★ 119.3 239

N

See following page for Arrival Routes.

THRNE
11000

8000
274°
(7)

IRONN
13000

13000
269°
(16)

YATZE
15000
14000

13000
269°
(7)

ARRYA
16000

13000
265°
(8)

DNERY
FL200

13000
263°
(12)

DEWWW
FL210

17000
265°
(15)

DROGO
FL240

17000
265°
(11)

VLLMA

17000
265°
(10)

QUTIP
FL290

17000
265°
(12)

FOILD

17000
265°
(53)

PHRED

LITNG
264°
084°
10 NM

PHRED TRANSITION (PHRED.THRNE3)

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: Turbojet and turboprop aircraft only.

NOTE: Expect local area altimeter setting reaching FL200.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

THRNE THREE ARRIVAL (RNAV) Transition Route

BURBANK, CALIFORNIA

(THRNE.THRNE3) 29MAR18

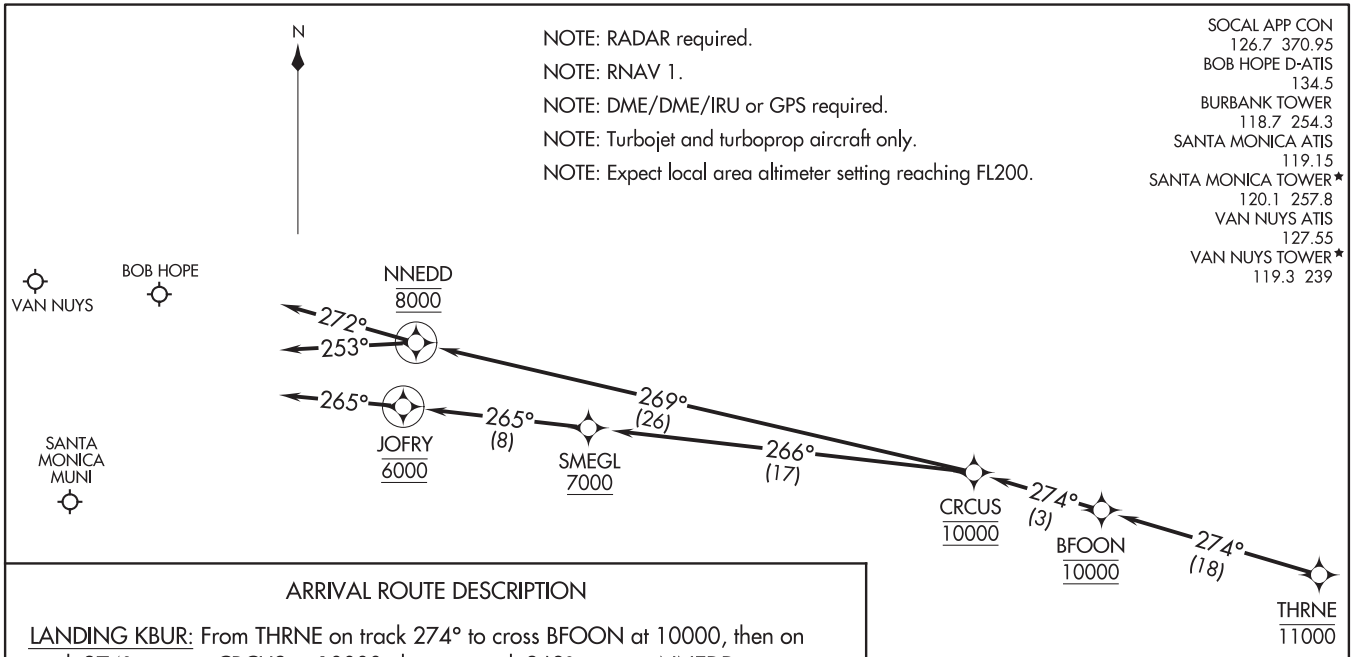
SW-3, 05 NOV 2020 to 31 DEC 2020

THRNE THREE ARRIVAL (RNAV) Arrival Routes

(THRNE.THRNE3) 29MAR18

(THRNE.THRNE3) 18088

THRNE THREE ARRIVAL (RNAV) Arrival Routes



ARRIVAL ROUTE DESCRIPTION

LANDING KBUR: From THRNE on track 274° to cross BFOON at 10000, then on track 274° to cross CRCUS at 10000, then on track 269° to cross NNEDD at 8000, then on track 253° . Expect RADAR vectors to final approach course.

LANDING KSMO: From THRNE on track 274° to cross BFOON at 10000, then on track 274° to cross CRCUS at 10000, then on track 266° to cross SMEGL at or above 7000, then on track 265° to cross JOFRY at 6000, then on track 265°. Expect RADAR vectors to final approach course.

LANDING KVNY: From THRNE on track 274° to cross BFOON at 10000, then on track 274° to cross CRCUS at 10000, then on track 269° to cross NNEDD at 8000, then on track 272°. Expect RADAR vectors to final approach course.

NOTE: Chart not to scale.

TILLT TWO ARRIVAL (RNAV)

(TILLT.TILLT2) 12OCT17

SANTA ANA, CALIFORNIA

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

(TILLT.TILLT2) 19171

TILLT TWO ARRIVAL (RNAV)

SANTA ANA, CALIFORNIA

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

AL-377 (FAA)

Z81

ARRIVAL ROUTE DESCRIPTION

From TILLT on track 126° to ZIPRR, then on track 134° to WURLL, then on track 134° to cross TCUPS at or above FL260, then on track 109° to cross RUKKI at or above FL210 and at 280K, then on track 109° to cross BAUBB between 11000 and 14000.

LANDING RUNWAY 2L: From BAUBB on track 099° to cross JJAWS at or below 6000, then on track 092° to PUZZL, then on track 017° to cross MINOE at or above 3000 and at 210K. Expect RNAV (RNP) Z RWY 2L or vectors to final approach course.

LANDING RUNWAY 20R: From BAUBB on track 089° to cross STYFF at or below 9000, then on track 080° to cross KAYNN at or below 7000, then on track 057° to cross LAXBB at 5000, then on track 044° to cross KLEVR at 5000, then on track 016° to BHEAR, then on track 016°. Expect RNAV (RNP) Z RWY 20R or vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 20R: After BHEAR turn right direct SNAKE and execute the ILS or LOC RWY 20R approach.

LANDING RUNWAY 2L: Proceed on LOC BC RWY 2L, RNAV (GPS) Y RWY 2L, or RNAV (RNP) Z RWY 2L.

SOCAL APP CON
127.4 263.025
D-ATIS
126.0
JOHN WAYNE TOWER★
126.8 343.625

TILLT
126° (33)
ZIPRR
134° (25)
WURLL
134° (44)
TCUPS
FL260
109° (21)
RUKKI
FL210 280K
109° (38)
BAUBB
14000
11000
089° (16)
STYFF
9000
080° (7)
KAYNN
7000
057° (8)
LAXBB
5000
044° (14)
KLEVR
5000
016° (7)
BHEAR
016°
SNAKE
099° (29)
JJAWS
6000
092° (9)
PUZZL
017° (10)
MINOE
△ 3000 210K

N

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect Rwy 20R unless otherwise assigned by ATC.
NOTE: Rwy 2L transition ATC assigned only.

NOTE: Chart not to scale.

TOPGN TWO ARRIVAL (RNAV)

(TOPGN.TOPGN2) 24MAY18

SAN DIEGO, CALIFORNIA
SAN DIEGO INTL (SAN)

(TOPGN.TOPGN2) 18144
TOPGN TWO ARRIVAL (RNAV)
AL-373 (FAA)
SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA

Z82

ARRIVAL ROUTE DESCRIPTION

IMPERIAL TRANSITION (IPL.TOPGN2)

MOMAR TRANSITION (MOMAR.TOPGN2)

PARKER TRANSITION (PKE.TOPGN2)

TTRUE TRANSITION (TTRUE.TOPGN2)

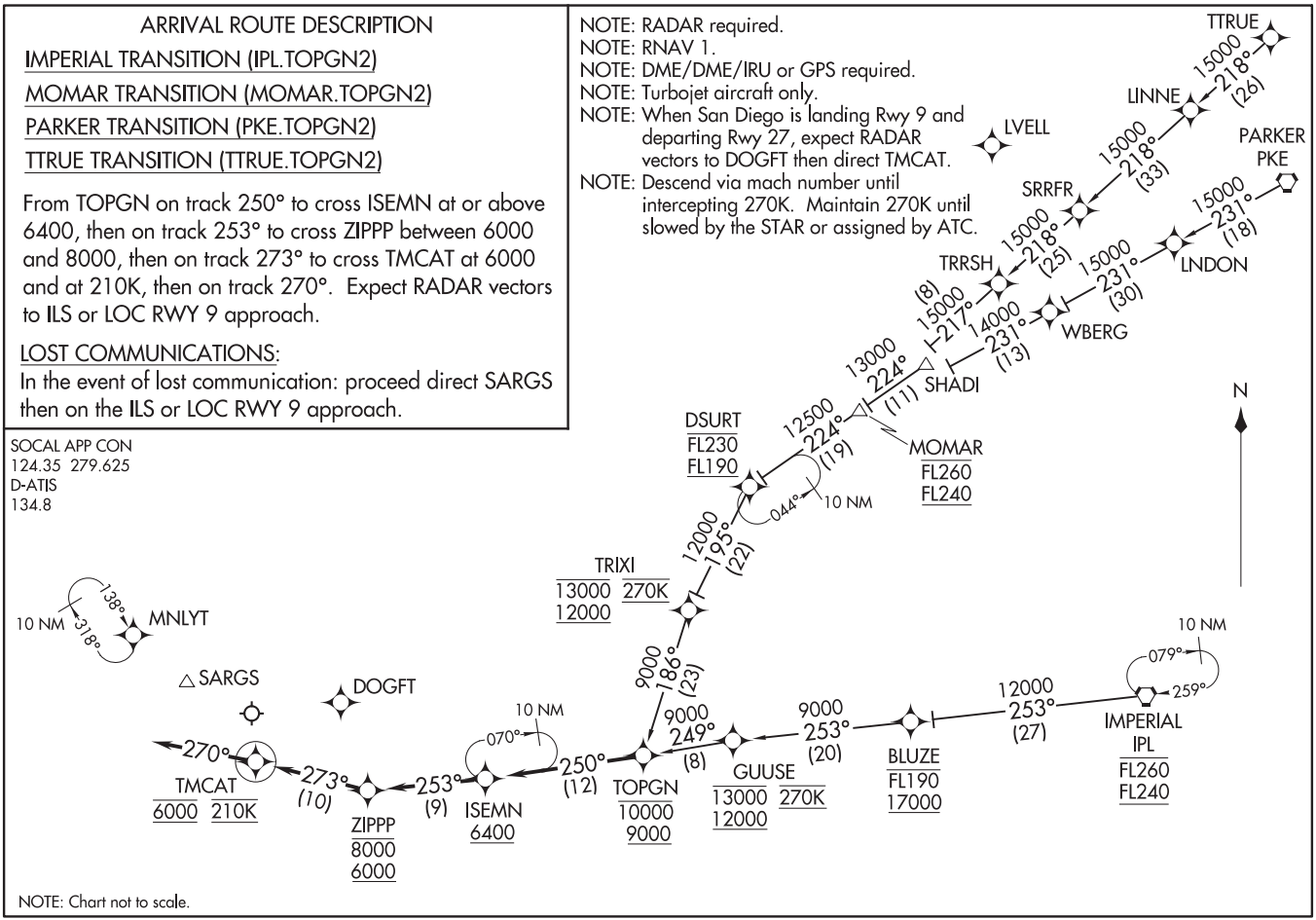
From TOPGN on track 250° to cross ISEMN at or above 6400, then on track 253° to cross ZIPPP between 6000 and 8000, then on track 273° to cross TMCAT at 6000 and at 210K, then on track 270°. Expect RADAR vectors to ILS or LOC RWY 9 approach.

LOST COMMUNICATIONS:

In the event of lost communication: proceed direct SARGS then on the ILS or LOC RWY 9 approach.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: When San Diego is landing Rwy 9 and departing Rwy 27, expect RADAR vectors to DOGFT then direct TMCAT.
NOTE: Descend via mach number until intercepting 270K. Maintain 270K until slowed by the STAR or assigned by ATC.

SOCAL APP CON
124.35 279.625
D-ATIS
134.8



NOTE: Chart not to scale.

VISTA THREE ARRIVAL

(VISTA.VISTA3) 02MAR17

LOS ANGELES, CALIFORNIA

LOS ANGELES INTL (LAX)

SOCAL APP CON
128.1 281.4
D-ATIS ARR
133.8

N

ARRIVAL ROUTE DESCRIPTION

JULIAN TRANSITION (JLI.VISTA3): From over JLI VORTAC on JLI R-263 and OCN R-083 to VISTA. Thence. . . .

. . . .from VISTA to CYNDE on OCN R-083. From CYNDE to OCN VORTAC on OCN R-083. From OCN VORTAC to SHIVE on OCN R-259 and SLI R-148. From SHIVE to CWARD on SLI R-148. From CWARD to BAYER on SLI R-148. From BAYER to MADOW on SLI R-148. From MADOW to TOZEK on SLI R-148. From TOZEK to SLI VORTAC on SLI R-148. Expect RADAR vectors to final approach course for Runways 24 or 25.

SEAL BEACH
115.7 SLI
Chan 104
N33°47.00′-W118°03.29′

R-148
(5)

TOZEK
N33°42.21′
W118°01.53′

148°
(5)
10

MADOW
N33°37.42′-W117°59.78′
TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION
Expect 7000

4500
328°
(10)
20

BAYER
N33°27.83′-W117°56.30′
TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION
Expect 10000

25
(5)
148°
4500
328°
(7)
32

CWARD
N33°23.04′
W117°54.56′

SHIVE
N33°15.97′
W117°52.00′

4000
259°
(23)

R-083

OCEANSIDE
115.3 OCN
Chan 100
N33°14.44′-W117°25.06′

CYNDE
N33°13.75′-W117°19.16′
TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION
14000

(5)

4000
263°
(4)
9

VISTA
N33°13.14′
W117°14.07′

R-344

MISSION BAY
117.8 MZB
Chan 125

7700
263°
(33)

JULIAN
114.0 JLI
Chan 87
N33°08.43′-W116°35.16′
L-4, H-4

288°
108°
R-108

TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION
Expect FL240

NOTE: DME and RADAR required.

NOTE: Chart not to scale.

(VISTA.VISTA3) 17117

VISTA THREE ARRIVAL

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

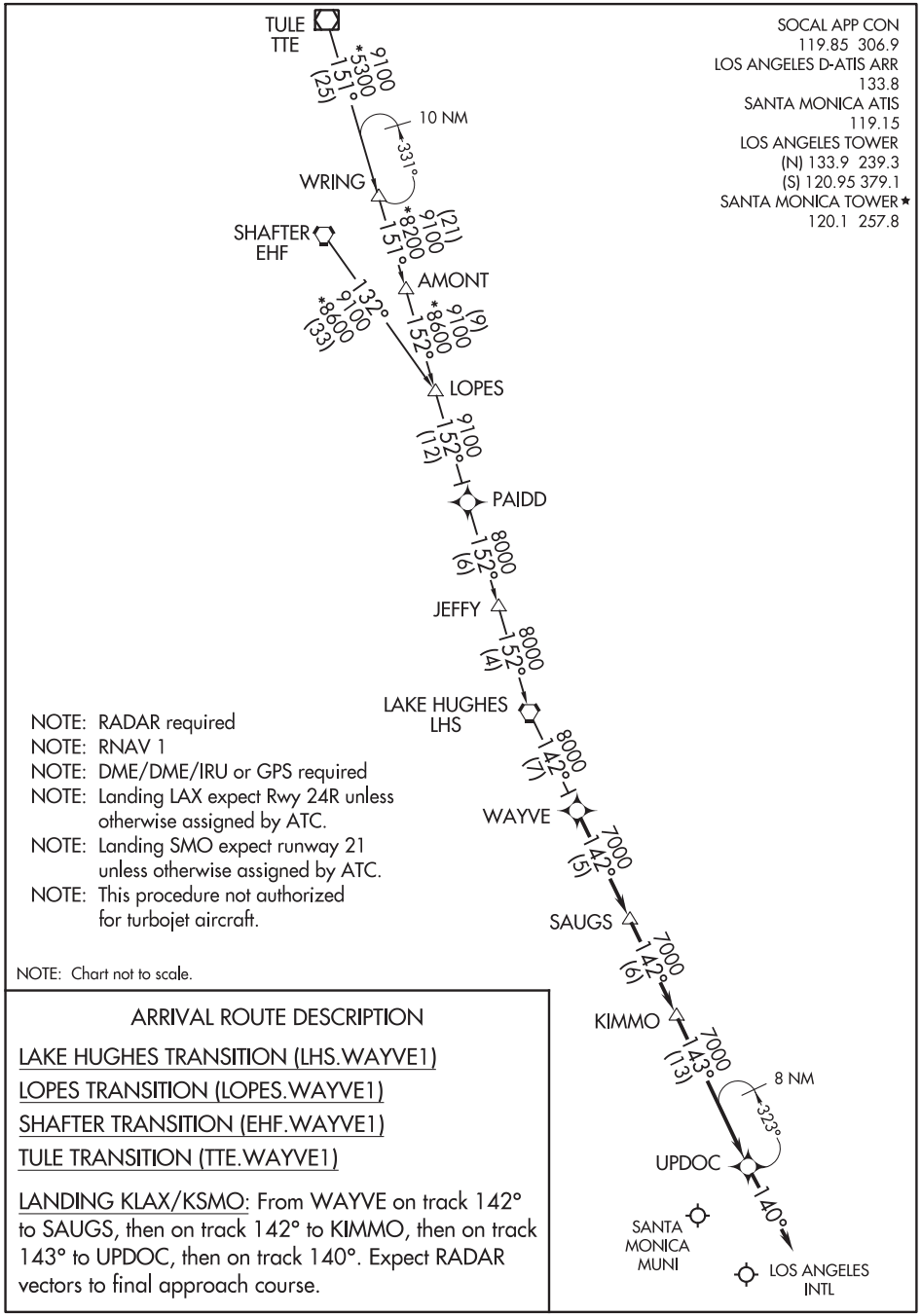
AL-237 (FAA)

Z83

WAYVE ONE ARRIVAL (RNAV)

AL-237 (FAA)

LOS ANGELES, CALIFORNIA



NOTE: RADAR required
NOTE: RNAV 1
NOTE: DME/DME/IRU or GPS required
NOTE: Landing LAX expect Rwy 24R unless otherwise assigned by ATC.
NOTE: Landing SMO expect runway 21 unless otherwise assigned by ATC.
NOTE: This procedure not authorized for turbojet aircraft.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

LAKE HUGHES TRANSITION (LHS.WAYVE1)

LOPES TRANSITION (LOPES.WAYVE1)

SHAFTER TRANSITION (EHF.WAYVE1)

TULE TRANSITION (TTE.WAYVE1)

LANDING KLAX/KSMO: From WAYVE on track 142° to SAUGS, then on track 142° to KIMMO, then on track 143° to UPDOC, then on track 140°. Expect RADAR vectors to final approach course.

WAYVE ONE ARRIVAL (RNAV)

LOS ANGELES, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

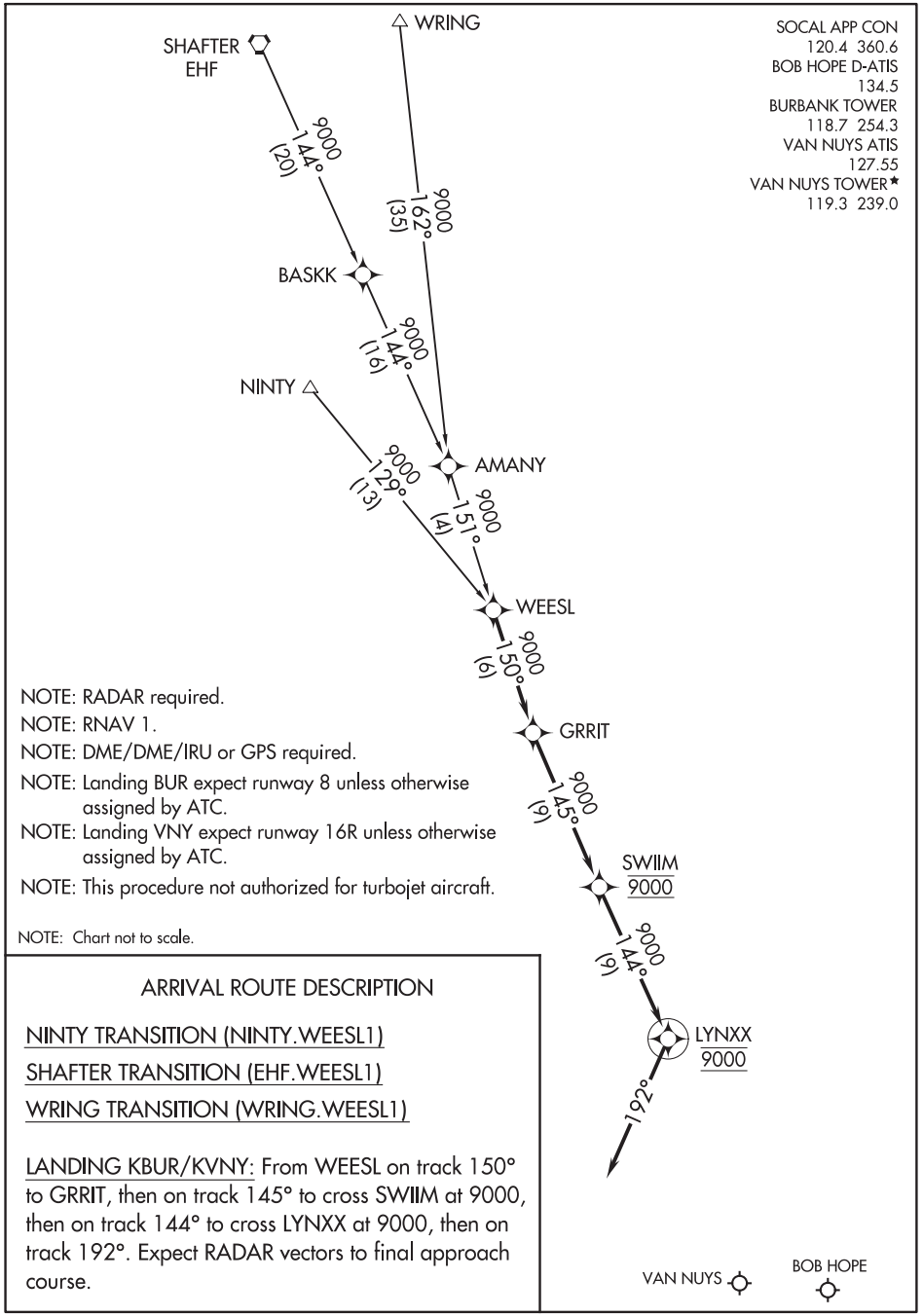
SW-3, 05 NOV 2020 to 31 DEC 2020

(WEESL.WEESL1) 17117

WEESL ONE ARRIVAL (RNAV)

AL-67 (FAA)

BURBANK, CALIFORNIA



NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: Landing BUR expect runway 8 unless otherwise assigned by ATC.

NOTE: Landing VNY expect runway 16R unless otherwise assigned by ATC.

NOTE: This procedure not authorized for turbojet aircraft.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

NINTY TRANSITION (NINTY.WEESL1)

SHAFTER TRANSITION (EHF.WEESL1)

WRING TRANSITION (WRING.WEESL1)

LANDING KBUR/KVNY: From WEESL on track 150° to GRRIT, then on track 145° to cross SWIIM at 9000, then on track 144° to cross LYNXX at 9000, then on track 192°. Expect RADAR vectors to final approach course.

WEESL ONE ARRIVAL (RNAV)

BURBANK, CALIFORNIA

(WEESL.WEESL1) 10NOV15

SW-3, 05 NOV 2020 to 31 DEC 2020

ZIGGY SEVEN ARRIVAL

AL-965 (FAA)

ONTARIO, CALIFORNIA

SW-3, 06 NOV 2020 to 31 DEC 2020

ZIGGY SEVEN ARRIVAL

ONTARIO, CALIFORNIA

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY7): From over HEC VORTAC on HEC R-211 and PDZ R-030 to ZIGGY. Thence . . . .

PALMDALE TRANSITION (PMD.ZIGGY7): From over PMD VORTAC on PMD R-104 to HITOP, then on HDF R-332 to ZIGGY. Thence . . . .

SHAFTER TRANSITION (EHF.ZIGGY7): From over EHF VORTAC on EHF R-128 and PMD R-295 to PMD VORTAC, then on PMD R-104 to HITOP, then on HDF R-332 to ZIGGY. Thence . . . .

TULE TRANSITION (TTE.ZIGGY7): From over TTE VOR/DME on TTE R-147 and PMD R-295 to PMD VORTAC, then on PMD R-104 to HITOP, then on HDF R-332 to ZIGGY. Thence . . . .

LANDING ONTARIO INTL

RUNWAYS 8L/R: From over ZIGGY on PDZ R-030 to PDZ VORTAC; expect RADAR vectors to final approach course.

RUNWAYS 26 L/R: From over ZIGGY direct PETIS NDB or on PDZ R-030 to PETIS; expect RADAR vectors for ILS approach.

ALL OTHER AIRPORTS

From over ZIGGY on PDZ R-030 to PDZ VORTAC; expect RADAR vectors to final approach course.

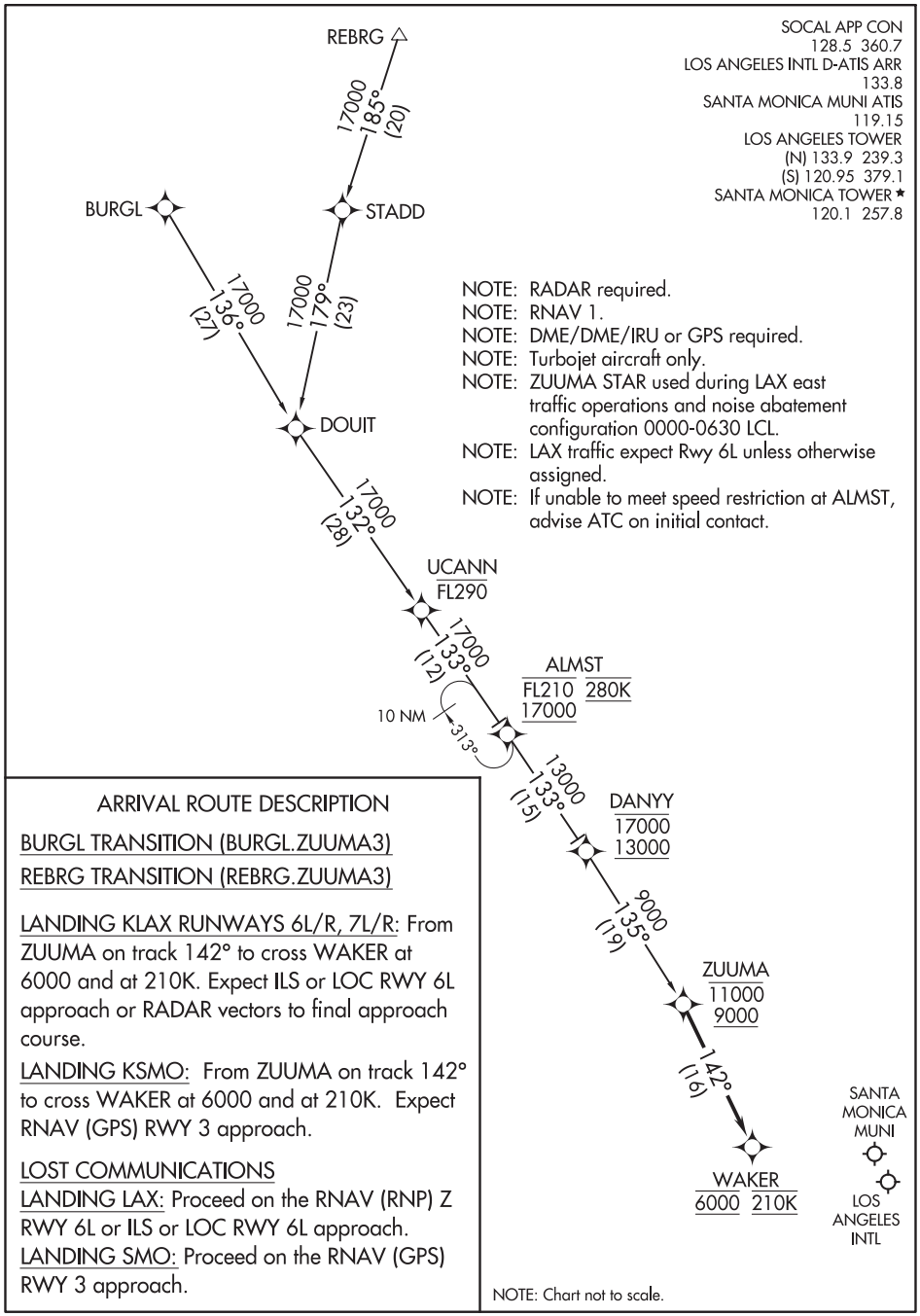
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

ZUUMA THREE ARRIVAL (RNAV)

AL-237 (FAA)

LOS ANGELES, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020



ARRIVAL ROUTE DESCRIPTION

BURGL TRANSITION (BURGL.ZUUMA3)

REBRG TRANSITION (REBRG.ZUUMA3)

LANDING KLAX RUNWAYS 6L/R, 7L/R: From ZUUMA on track 142° to cross WAKER at 6000 and at 210K. Expect ILS or LOC RWY 6L approach or RADAR vectors to final approach course.

LANDING KSMO: From ZUUMA on track 142° to cross WAKER at 6000 and at 210K. Expect RNAV (GPS) RWY 3 approach.

LOST COMMUNICATIONS

LANDING LAX: Proceed on the RNAV (RNP) Z RWY 6L or ILS or LOC RWY 6L approach.

LANDING SMO: Proceed on the RNAV (GPS) RWY 3 approach.

ZUUMA THREE ARRIVAL (RNAV)

LOS ANGELES, CALIFORNIA

INTENTIONALLY

LEFT

BLANK

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS	Rwy Idg	6498
CH 63102	180°	TDZE	3062
W18A		Apt Elev	3062

RNAV (GPS) RWY 18

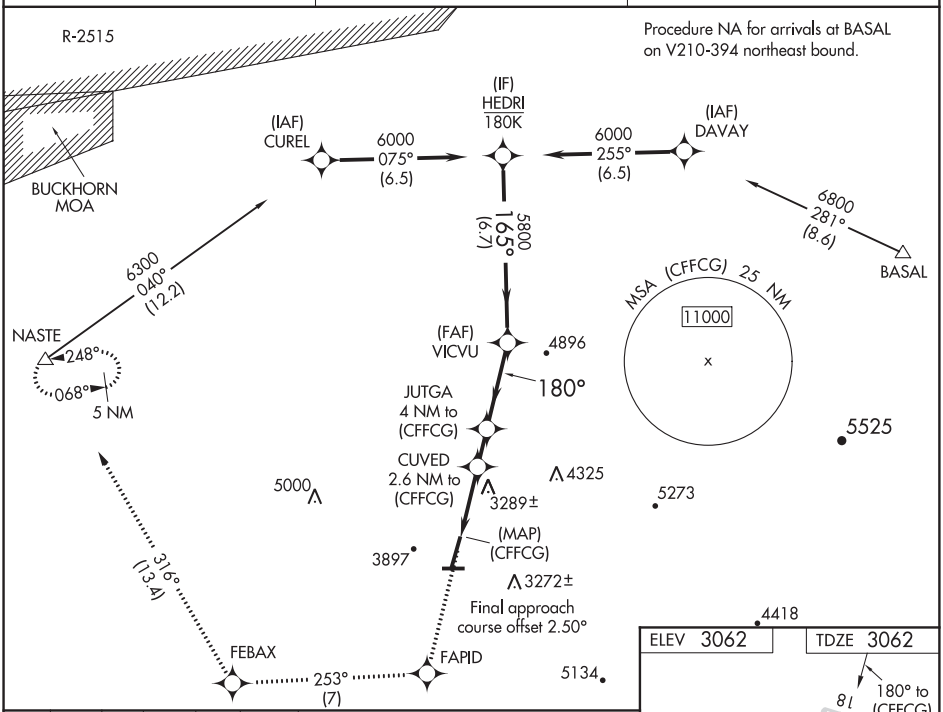
APPLE VALLEY (APV)

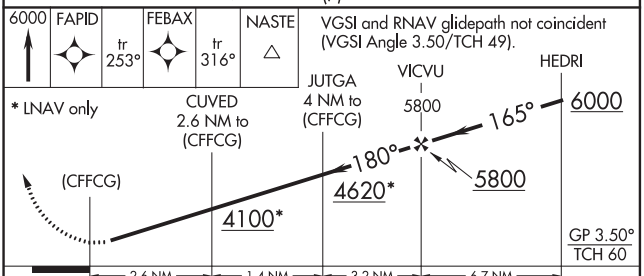
RNP APCH.

Circling NA to Rwys 8 and 26. Circling to Rwy 36 NA at night. Rwy 18 helicopter visibility reduction below ¾ SM NA. Use Victorville altimeter setting; if not received, procedure NA.

MISSED APPROACH: Climb to 6000 direct FAPID and track 253° to FEBAX and track 316° to NASTE and hold.

VCV AWOS-3	JOSHUA APP CON	AUNICOM ★
135.475	124.55 363.0	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	3380-⅞ 318 (400-⅞)			
LNAV MDA	3600-1 538 (600-1)		3600-1½ 538 (600-1½)	
C CIRCLING	4220-1¼ 1158 (1200-1¼)	4440-1½ 1378 (1400-1½)	4740-3 1678 (1700-3)	

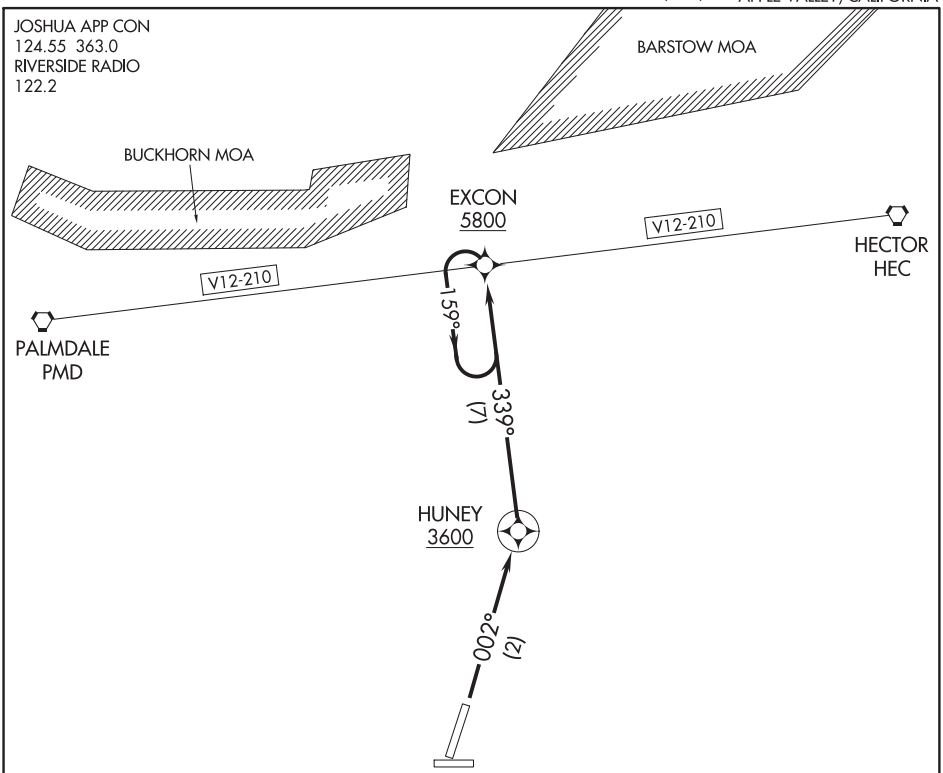
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(EXCON1.EXCON) 16091

EXCON ONE DEPARTURE (OBSTACLE) (RNAV)

SL-5822 (FAA)

APPLE VALLEY (APV)
APPLE VALLEY, CALIFORNIA



NOTE: GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS

Rwy 36: 300-1 or standard with a minimum climb gradient of 340′ per NM until 5800′.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 36: Climb via 002° course to HUNEY WP, then 339° course to EXCON WP, then climb in EXCON WP holding pattern (hold S left turns 339° inbound) to 7500′ MSL then proceed on course.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

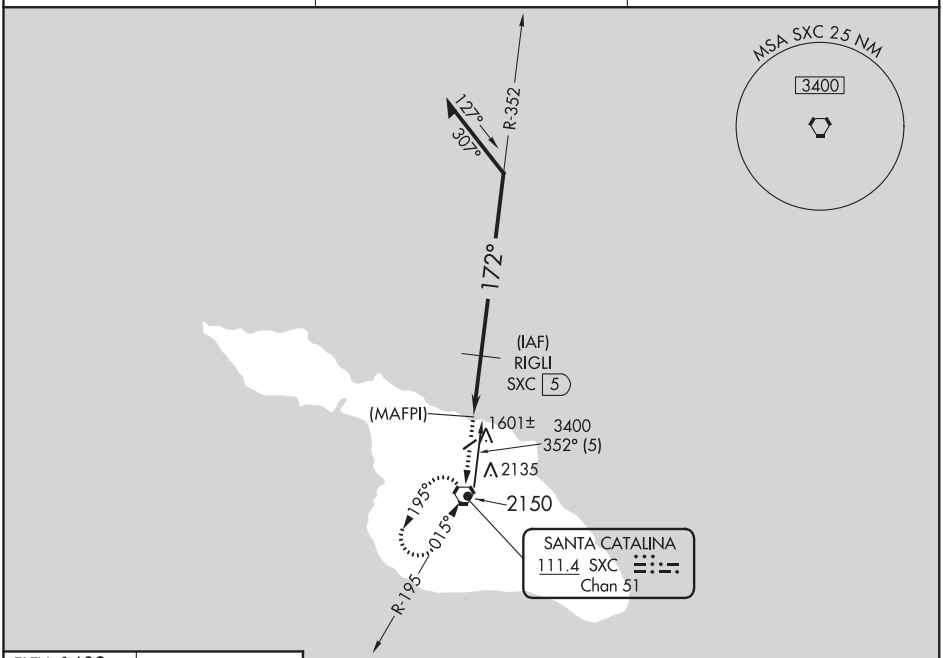
VORTAC SXC	APP CRS	Rwy Idg	N/A
111.4	172°	TDZE	N/A
Chan 51		Apt Elev	1602

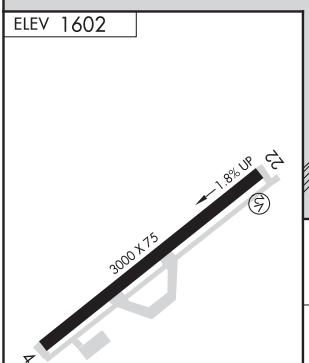
VOR/DME or GPS-B
CATALINA (AVX)

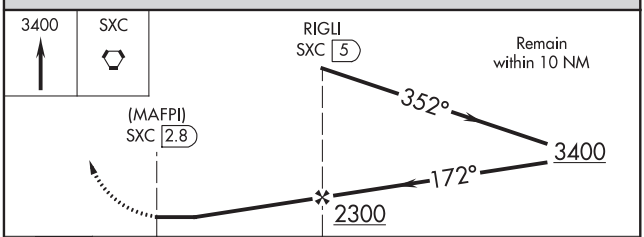
NA — Circling southeast runway 4-22 not authorized.

MISSED APPROACH: Climb to 3400 direct SXC VORTAC and hold.

ASOS	SOCAL APP CON	UNICOM
120.675	127.4 323.275	122.7 (CTAF)







CATEGORY	A	B	C	D
CIRCLING	2220-1	618 (700-1)	NA	

REIL Rwy 22
MIRL Rwy 4-22

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

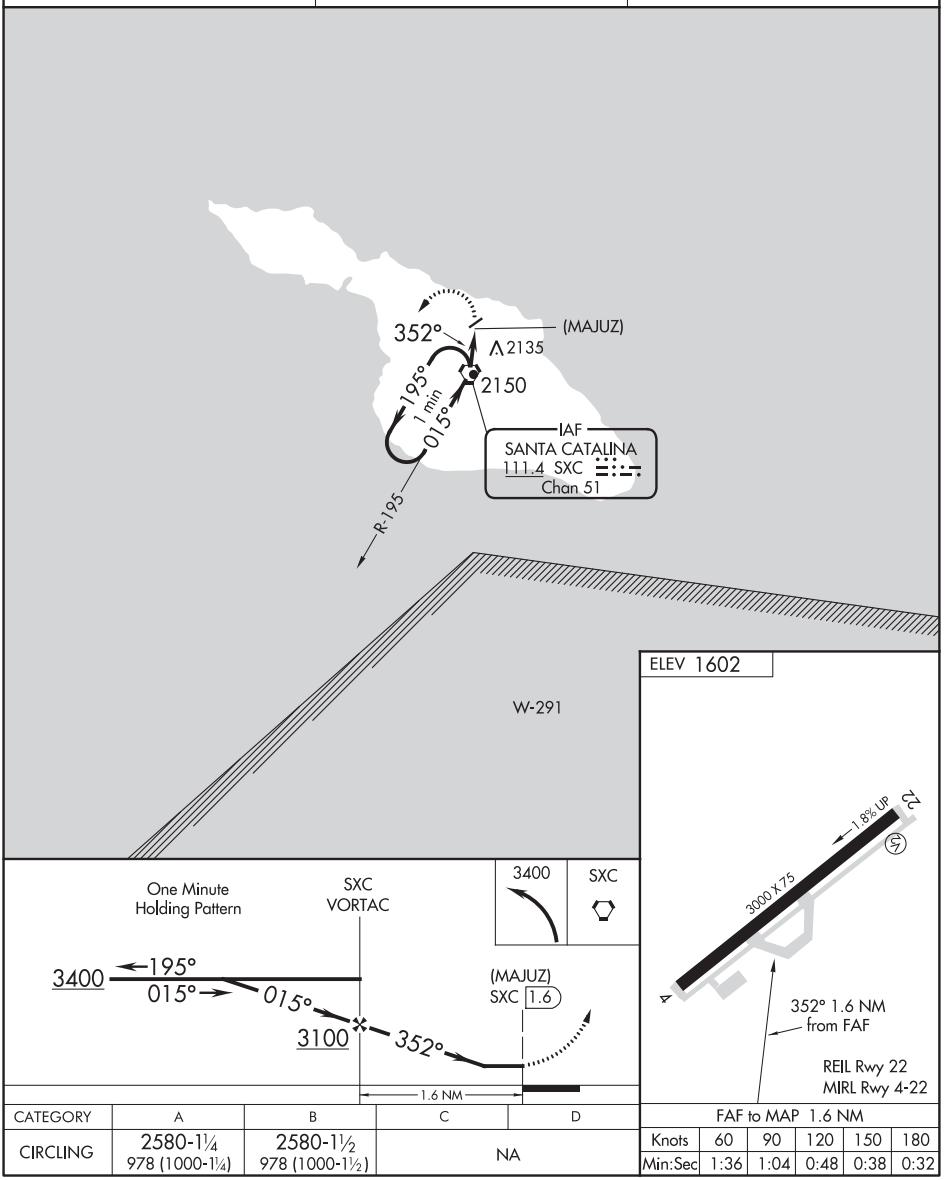
VORTAC SXC	APP CRS	Rwy Idg	N/A
111.4	352°	TDZE	N/A
Chan 51		Apt Elev	1602

VOR or GPS-A
CATALINA (AVX)

T
A NA

MISSED APPROACH: Climbing left turn to 3400 in SXC VORTAC holding pattern.

ASOS	SOCAL APP CON	UNICOM
120.675	127.4 323.275	122.7 (CTAF)



CATEGORY	A	B	C	D
CIRCLING	2580-1¼ 978 (1000-1¼)	2580-1½ 978 (1000-1½)	NA	

FAF to MAP 1.6 NM					
Knots	60	90	120	150	180
Min:Sec	1:36	1:04	0:48	0:38	0:32

SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 34

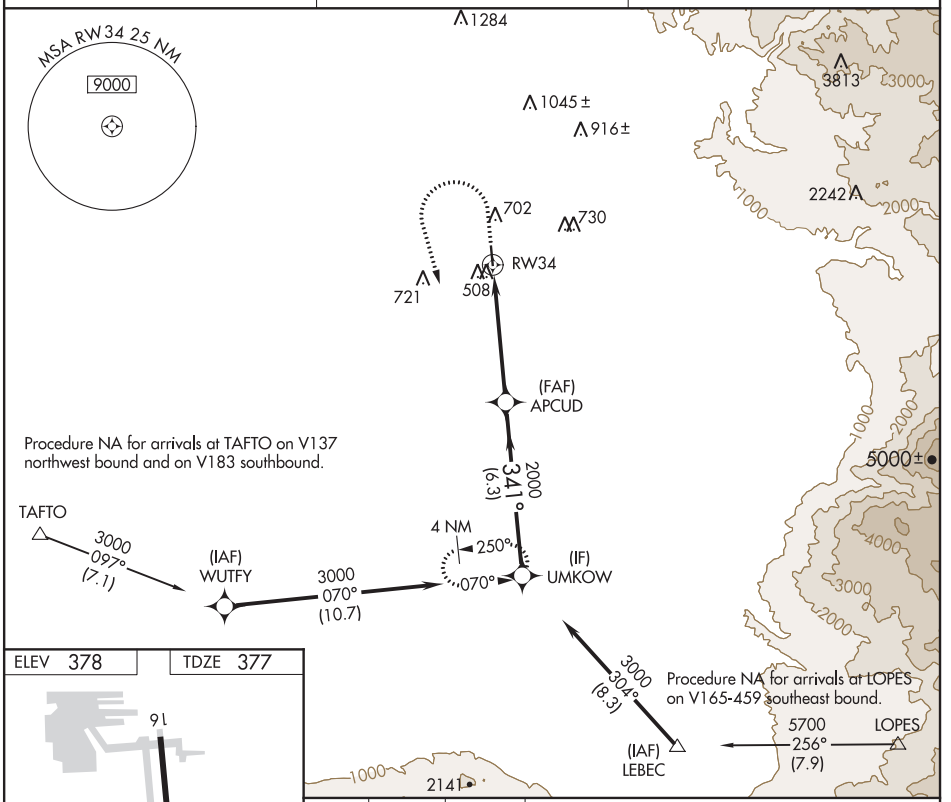
BAKERSFIELD MUNI (L45)

APP CRS	Rwy Idg	4000
341°	TDZE	377
	Apt Elev	378

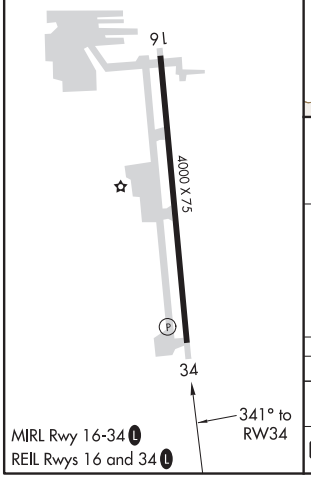
T A NA — DME/DME RNP-0.3 NA. Use Meadows Field altimeter setting. When Meadows Field altimeter setting not received, use Porterville altimeter setting and increase all MDA 80 feet, increase LNAV and Circling Cat C and D visibility ¼ mile. Helicopter visibility reduction below ¾ SM NA. Night Landing Rwy 16 NA.

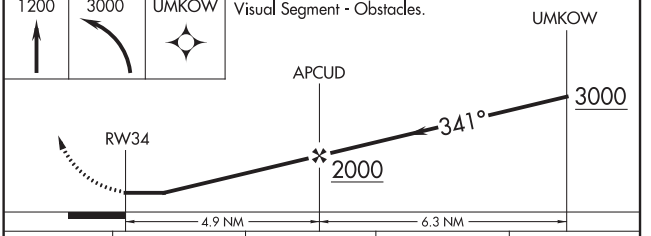
MISSED APPROACH: Climb to 1200 then climbing left turn to 3000 direct UMKOW and hold.

BFL ASOS	BAKERSFIELD APP CON ★	UNICOM
118.6	126.45 270.3	122.8 (CTAF) L



ELEV 378 | TDZE 377





CATEGORY	A	B	C	D
LNAV MDA	840-1 463 (500-1)		840-1⅜ 463 (500-1⅜)	
C CIRCLING	1060-1 682 (700-1)		1120-2¼ 742 (800-2¼)	1120-2½ 742 (800-2½)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VOR/DME RWY 34

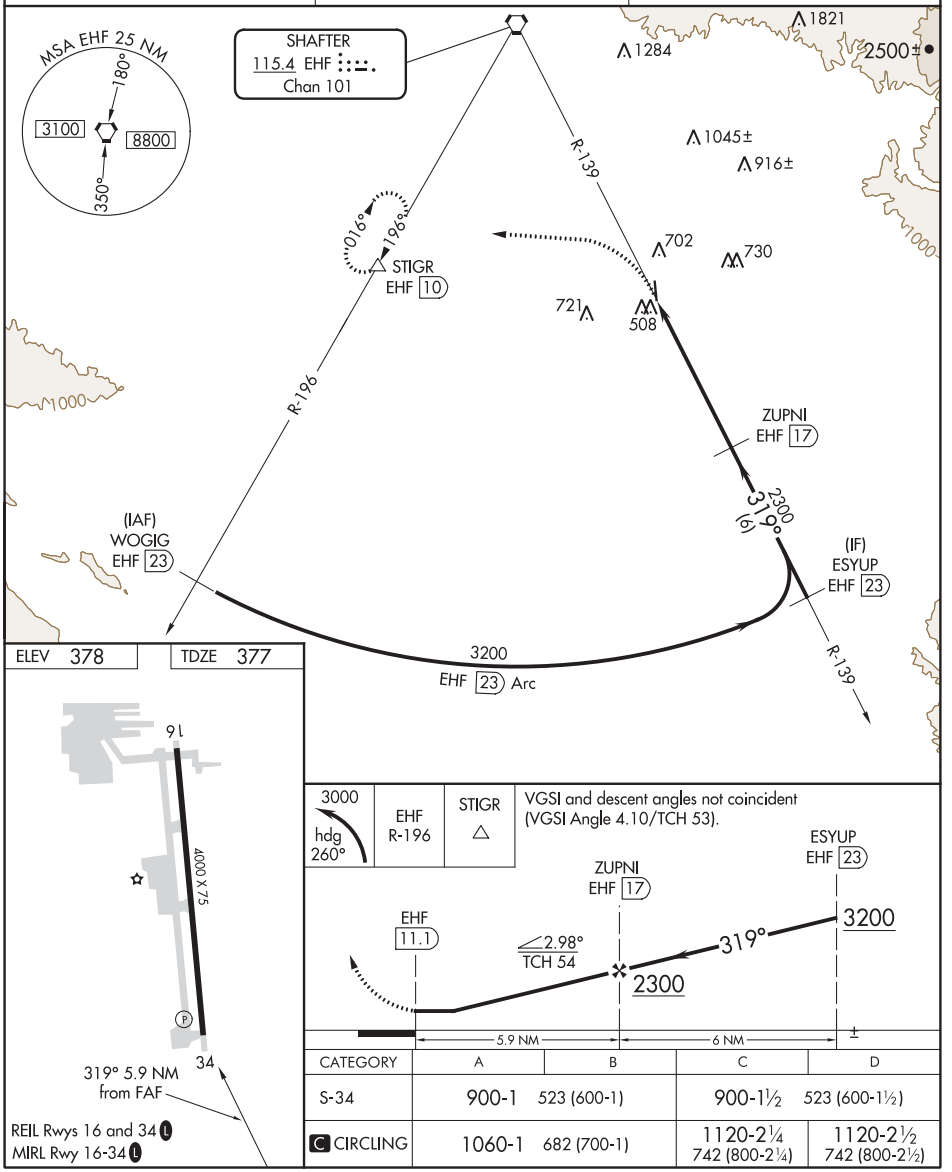
BAKERSFIELD MUNI (L45)

VORTAC EHF	APP CRS	Rwy Idg	4000
115.4	319°	TDZE	377
Chan 101		Apt Elev	378

T NA Use Meadows Field altimeter setting. When Meadows Field altimeter setting not received, use Porterville altimeter setting and increase all MDA 80 feet, increase S-34 and Circling Cat C and D visibility ¼ mile. Visibility reduction by helicopters below ¾ SM NA. Night Landing Rwy 16 NA.

MISSED APPROACH: Climbing left turn to 3000 on heading 260° to EHF R-196 to STIGR/EHF 10 DME and hold, continue climb-in-hold to 3000.

BFL ASOS	BAKERSFIELD APP CON★	UNICOM
118.6	126.45 270.3	122.8 (CTAF) L

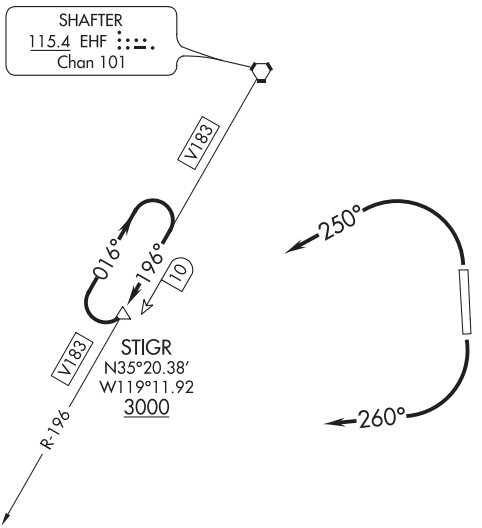


CATEGORY	A	B	C	D
S-34	900-1	523 (600-1)	900-1½	523 (600-1½)
C CIRCLING	1060-1	682 (700-1)	1120-2¼ 742 (800-2¼)	1120-2½ 742 (800-2½)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LOS ANGELES CENTER
127.1 317.7
BAKERSFIELD DEP CON ★
126.45 270.3

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS:
Rwy 16: Standard.
Rwy 34: 400-1¼ or standard with minimum climb of 555' per NM to 900.

NOTE: DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climbing right turn heading 260° to intercept V183, to STIGR/EHF 10 DME, thence . . . .
TAKEOFF RWY 34: Climbing left turn heading 250° to intercept V183, to STIGR/EHF 10 DME, thence . . . .

. . . . climb in STIGR holding pattern to cross STIGR/EHF 10 DME at or above 3000 or MEA for route of flight then proceed on course.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

BAKERSFIELD, CALIFORNIA | AL-36 (FAA) | 18200

ILS or LOC RWY 30R

MEADOWS FIELD (BFL)

LOC/DME I-BFL	APP CRS	Rwy ldg	7429
111.9	301°	TDZE	493
Chan 56		Apt Elev	510

Circling NA northeast of Rwy 12L-30R. DME Required. VDP NA with Porterville altimeter setting. When local altimeter setting not received, use Porterville altimeter setting: increase DA to 790 and all visibilities to RVR 2200; increase all MDA 100 feet and visibility Cats C and D to RVR 6000. For inop ALS, increase S-LOC 30R Cat A and B visibility to RVR 5000. For inop ALS when using Porterville altimeter setting, increase S-ILS 30R all Cats visibility to RVR 5000.

MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 on EHF VORTAC R-145 direct EHF VORTAC and hold, continue climb-in-hold to 3000.

ATIS	BAKERSFIELD APP CON ★	BAKERSFIELD TOWER ★	GND CON	UNICOM
118.6	118.8 284.625 (SOUTH) 118.9 270.3 (NORTH)	118.1 (CTAF) L 257.8	121.7	122.95

ALTERNATE MISSED APCH FIX

IVECU TTE 15

109.2 TTE R-172 Chan 29

117.1 AVE R-072 Chan 118

SHAFTER 115.4 EHF Chan 101

LOCALIZER 111.9 I-BFL Chan 56

MSA EHF 25 NM

180° 8800 3700 330°

Procedure NA for arrivals at AMONT on V459 southeast bound.
Procedure NA for arrivals at GMN VORTAC on V137 southeast bound.

3100 to JUPEX 125° (10)

R-324 144° 324° R-145 301° 121° 1 min

(IAF) JUPEX I-BFL 7.6

(IF) FASTO INT I-BFL 14.8

4500 NoPT 301° (7.4)

2500 301° (7.3)

R-344 4500 344° (14.4)

(IAF) AMONT I-BFL 22.3

LEBEC GMN 13.6

117.5 FLW Chan 122 R-078

9000 NoPT 344° (13.6)

IAF GORMAN 116.1 GMN Chan 108

1789 4917 1821 1293 816 1284 670 1045± 687 3813 7779 2242 5804 8137 6960 5292 7800 6920

ELEV 510 D TDZE 493

12L 0.4% DOWN 10849 X 150 12R 7700 X 100 0.3% UP 0.3% UP TWR 580 513 562 30L 30R

301° 6.2 NM from FAF

TDZ/CL Rwy 30R
HIRL Rwy 12L-30R L
MIRL Rwy 12R-30L L

1000 | 3000 EHF R-145 | EHF

Use I-BFL DME when on the localizer course.

JUPEX I-BFL 7.6 2500 121° 301° 2500

One Minute Holding Pattern

*LOC only I-BFL 1.4 *I-BFL 2.6

GS 3.00° TCH 51

1.2 NM 5 NM

CATEGORY	A	B	C	D
S-ILS 30R	698/18		205 (200-½)	
S-LOC 30R	940/24	447 (500-½)	940/45	447 (500-⅞)
C CIRCLING	960-1	450 (500-1)	960-1½ 450 (500-1½)	1060-2 550 (600-2)

BAKERSFIELD, CALIFORNIA
Amdt 31A 19JUL18

35°26'N-119°03'W

MEADOWS FIELD (BFL)

ILS or LOC RWY 30R

SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS	Rwy Idg	10849
CH 78418	121°	TDZE	510
W12A		Apt Elev	510

RNAV (GPS) RWY 12L

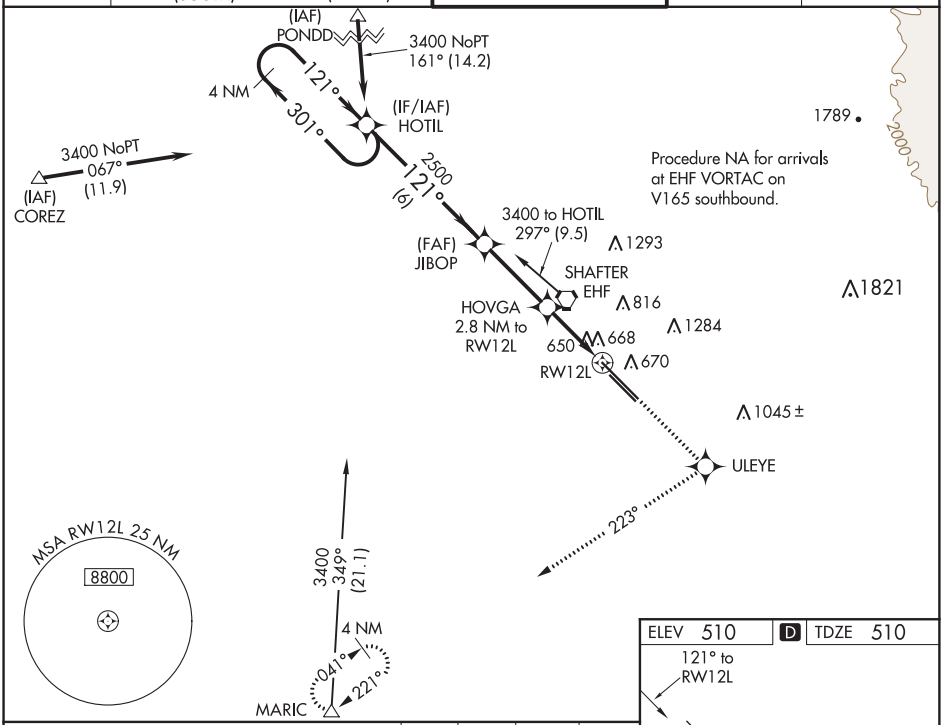
MEADOWS FIELD (BFL)

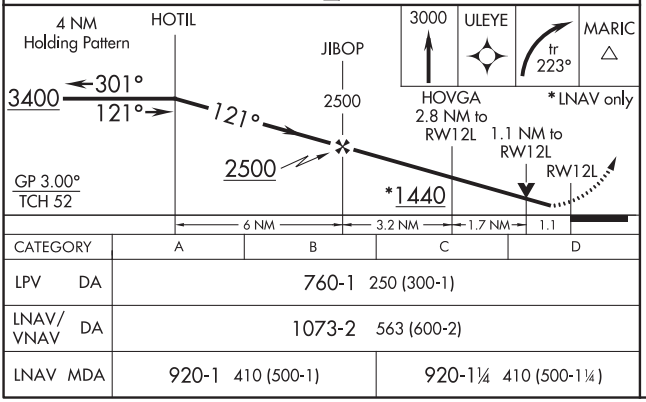
RNP APCH.

Baro-VNAV NA when using Porterville altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Rwy 12L helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Porterville altimeter setting and increase all DA 92 feet, all MDA 100 feet, increase LPV all Cats, LNAV/VNAV all Cats and LNAV Cats C/D visibility ¼ mile.

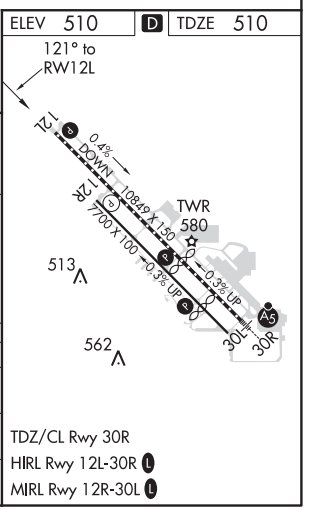
MISSED APPROACH: Climb to 3000 direct ULEYE and right turn on track 223° to MARIC and hold.

ATIS	BAKERSFIELD APP CON ★	BAKERSFIELD TOWER ★	GND CON	UNICOM
118.6	118.8 284.625 (SOUTH) 118.9 270.3 (NORTH)	118.1 (CTAF) L 257.8	121.7	122.95





CATEGORY	A	B	C	D
LPV DA	760-1 250 (300-1)			
LNAV/VNAV DA	1073-2 563 (600-2)			
LNAV MDA	920-1 410 (500-1)		920-1¼ 410 (500-1¼)	



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

BAKERSFIELD, CALIFORNIA | AL-36 (FAA) | 19087

RNAV (GPS) RWY 12R

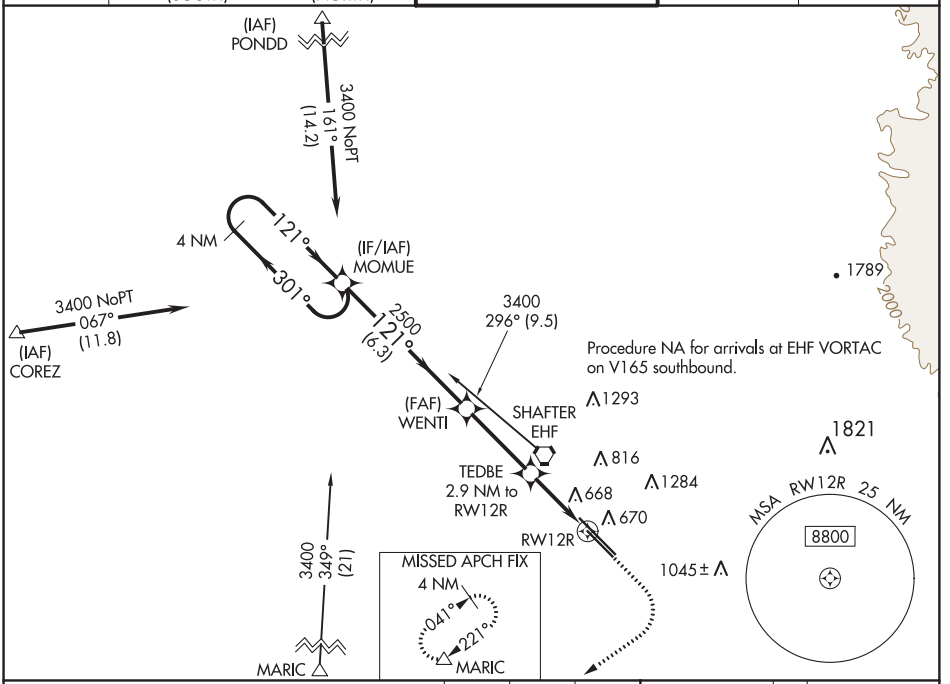
MEADOWS FIELD (BFL)

WAAS	APP CRS	Rwy Idg	7700
CH 61040	121°	TDZE	488
W12B		Apt Elev	510

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). Circling NA northeast of Rwy 12L-30R. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 1000 then climbing right turn to 3500 direct MARIC and hold.

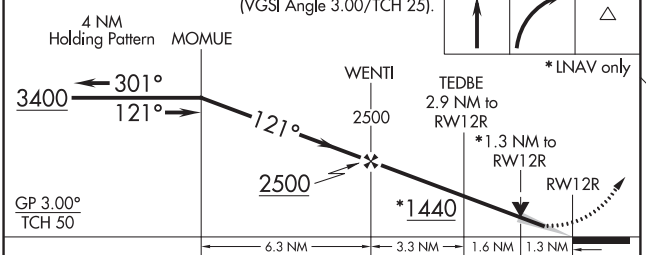
ATIS	BAKERSFIELD APP CON ★	BAKERSFIELD TOWER ★	GND CON	UNICOM
118.6	118.8 284.625 (SOUTH) 118.9 270.3 (NORTH)	118.1 (CTAF) L 257.8	121.7	122.95



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 25).

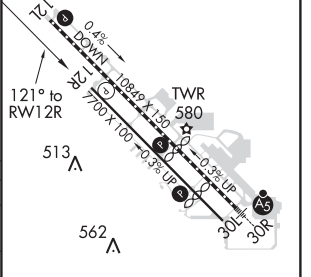
1000	3500	MARIC
		△

* LNAV only



CATEGORY	A	B	C	D
LPV DA	738-¾ 250 (300-¾)			
LNAV/VNAV DA	969-1⅝ 481 (500-1⅝)			
LNAV MDA	920-1 432 (500-1)		920-1¼ 432 (500-1¼)	
C CIRCLING	960-1 450 (500-1)		960-1½ 450 (500-1½)	1060-2 550 (600-2)

ELEV 510 | D | TDZE 488



TDZ/CL Rwy 30R
HIRL Rwy 12L-30R L
MIRL Rwy 12R-30L L

BAKERSFIELD, CALIFORNIA | MEADOWS FIELD (BFL)

Orig 27APR17 | 35°26'N-119°03'W | RNAV (GPS) RWY 12R

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS CH 82440 W30B	APP CRS 301°	Rwy Idg 6201 TDZE 484 Apt Elev 510

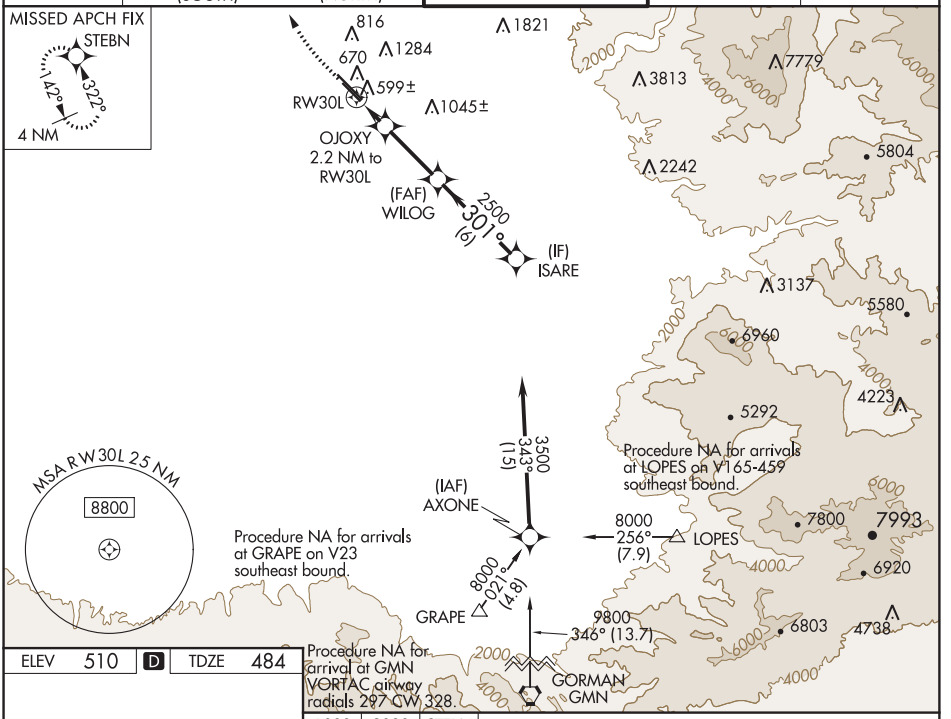
RNAV (GPS) RWY 30L

MEADOWS FIELD (BFL)

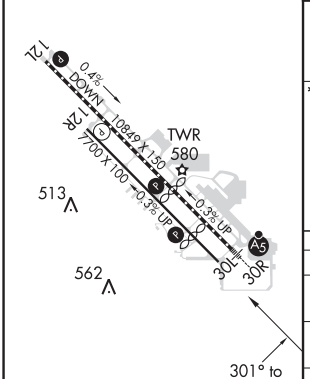
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). Circling NA northeast of Rwy 12L-30R. DME/DME RNP-0.3 NA.

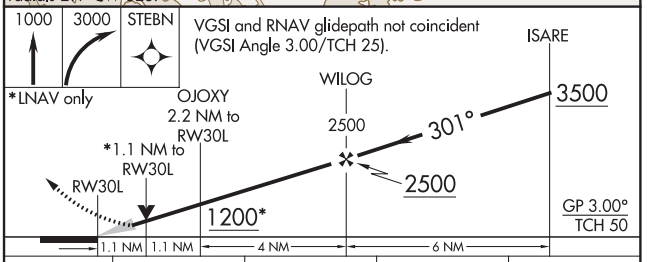
MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct STEBN and hold.

ATIS	BAKERSFIELD APP CON ★	BAKERSFIELD TOWER ★	GND CON	UNICOM
118.6	118.8 284.625 (SOUTH) 118.9 270.3 (NORTH)	118.1 (CTAF) L 257.8	121.7	122.95



ELEV 510	D	TDZE 484





CATEGORY	A	B	C	D
LPV DA	734-⅞ 250 (300-⅞)			
LNAV/VNAV DA	797-1⅛ 313 (300-1⅛)			
LNAV MDA	860-1 376 (400-1)			
C CIRCLING	960-1 450 (500-1)		960-1½ 450 (500-1½)	1060-2 550 (600-2)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

BAKERSFIELD, CALIFORNIA | AL-36 (FAA) | 18312

RNAV (GPS) RWY 30R

MEADOWS FIELD (BFL)

WAAS	APP CRS	Rwy Idg	7429
CH 58118	301°	TDZE	493
W30A		Apt Elev	510

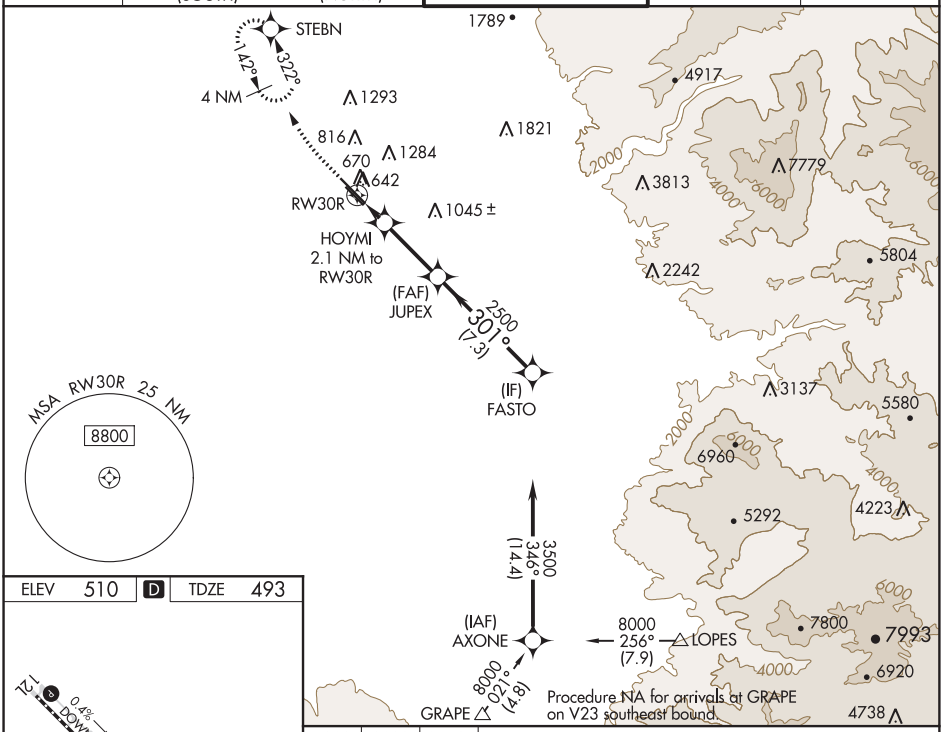
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C (32°F) or above 54°C (130°F). Circling NA northeast of Rwy 12L-30R. When local altimeter setting not received, use Porterville altimeter setting: increase LPV DA to 790, LNAV/VNAV DA to 990. Increase LNAV/VNAV all Cats visibilities to 1¼ mile; increase all MDA 100 feet and LNAV visibility Cats C and D to RVR 5000. VDP and Baro-VNAV NA when using Porterville altimeter setting. For inop ALS when using Porterville altimeter setting, increase LPV all Cats visibility to RVR 5000 and LNAV Cat C and D visibility to 1⅜. # RVR 2400 when using Porterville altimeter setting.

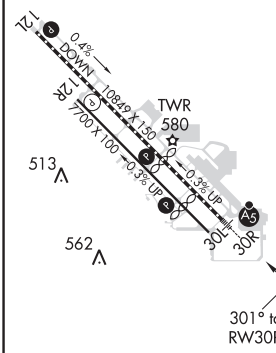
MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct STEBN and hold.

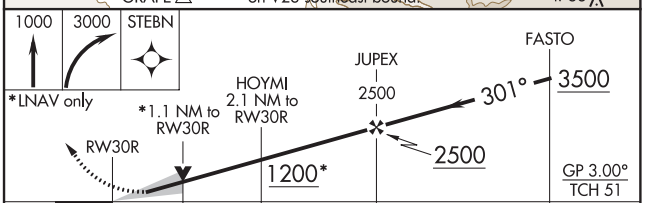
ATIS	BAKERSFIELD APP CON ★	BAKERSFIELD TOWER ★	GND CON	UNICOM
118.6	118.8 284.625 (SOUTH) 118.9 270.3 (NORTH)	118.1 (CTAF) L 257.8	121.7	122.95



ELEV 510 | D | TDZE 493



TDZ/CL Rwy 30R
HIRL Rwy 12L-30R L
MIRL Rwy 12R-30L L



CATEGORY	A	B	C	D
LPV DA#	698/18 205 (200-½)			
LNAV/VNAV DA	898/45 405 (400-⅞)			
LNAV MDA	880/24 387 (400-½)		880/35 387 (400-⅝)	
C CIRCLING	960-1 450 (500-1)		960-1½ 450 (500-1½)	1060-2 550 (600-2)

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC EHF	APP CRS	Rwy Idg	N/A
115.4	137°	TDZE	N/A
Chan 101		Apt Elev	507

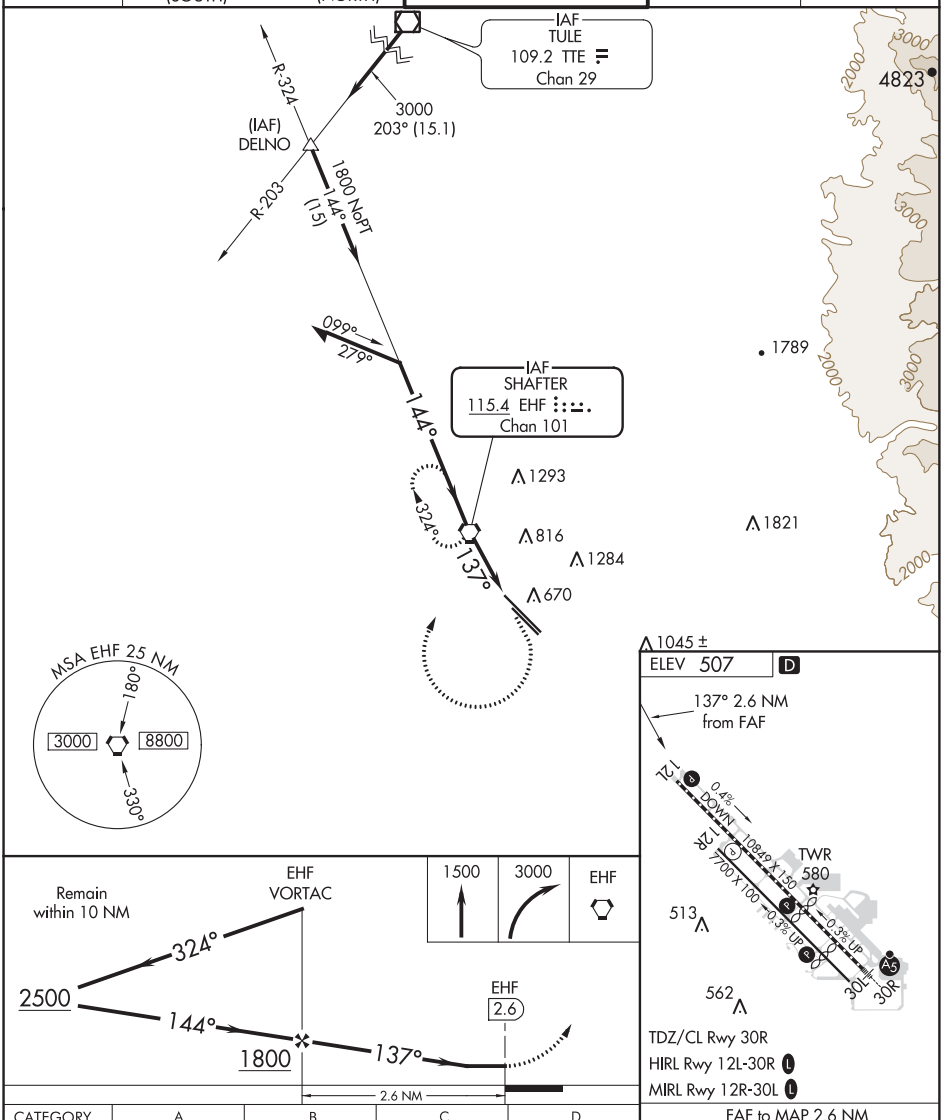
VOR-A

MEADOWS FIELD (BFL)

Circling not authorized northeast of Rwy 12L-30R.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct EHF VORTAC and hold, continue climb-in-hold to 3000.

ATIS	BAKERSFIELD APP CON	BAKERSFIELD TOWER	GND CON	UNICOM
118.6	118.8 284.625 (SOUTH) 118.9 270.3 (NORTH)	118.1 (CTAF) L 257.8	121.7	122.95



CATEGORY	A	B	C	D
C CIRCLING	1000-1	493 (500-1)	1000-1½ 493 (500-1½)	1060-2 553 (600-2)

FAF to MAP 2.6 NM					
Knots	60	90	120	150	180
Min:Sec	2:36	1:44	1:18	1:02	0:52

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

MEADOWS FIELD (BFL)

BAKERSFIELD, CALIFORNIA

AL-36 (FAA)

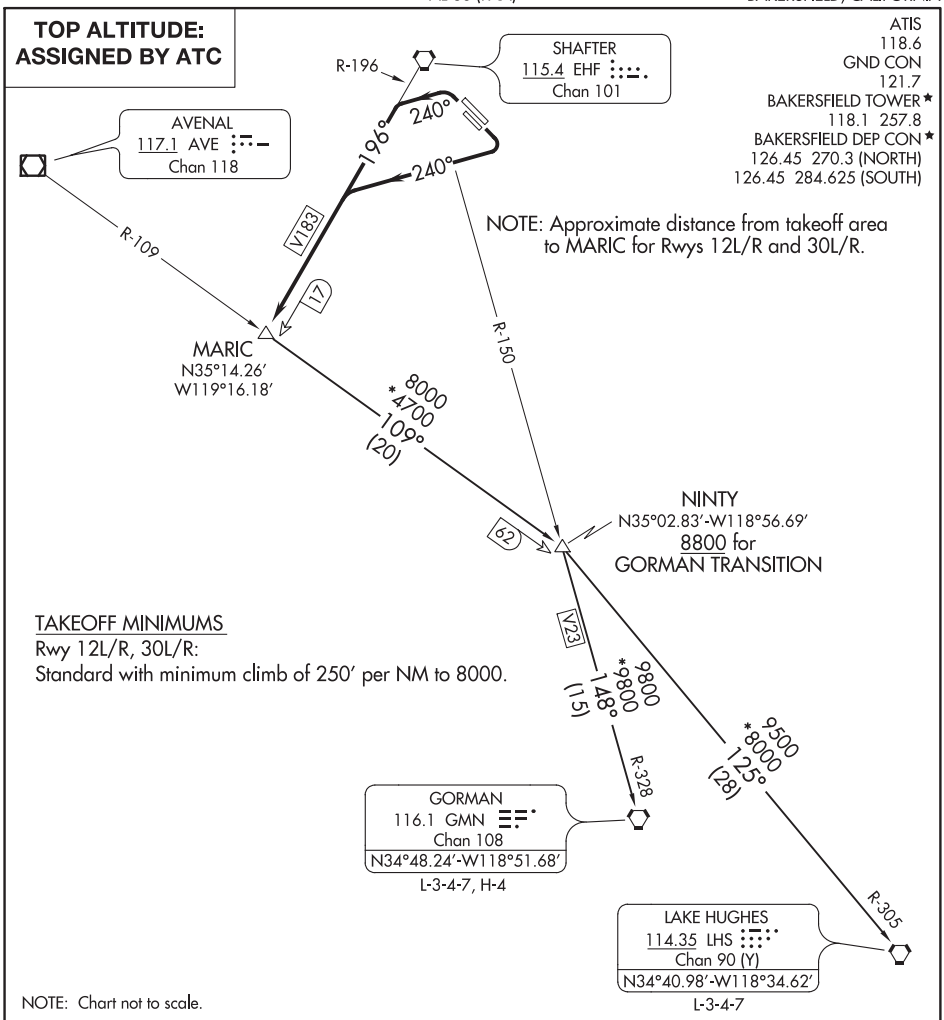
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
BAKERSFIELD, CALIFORNIA
MEADOWS FIELD (BFL)

MARIC FOUR DEPARTURE

AL-36 (FAA)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/R: Turn right heading 240°. Thence. . . .

TAKEOFF RUNWAYS 30L/R: Turn left heading 240°. Thence. . . .

. . . .intercept and proceed on the EHF R-196 to MARIC. Thence via (transition) or (assigned route).

GORMAN TRANSITION (MARIC4.GMN): From over MARIC via AVE R-109 and GMN R-328 to GMN VORTAC.

LAKE HUGHES TRANSITION (MARIC4.LHS): From over MARIC via AVE R-109 and LHS R-305 to LHS VORTAC.

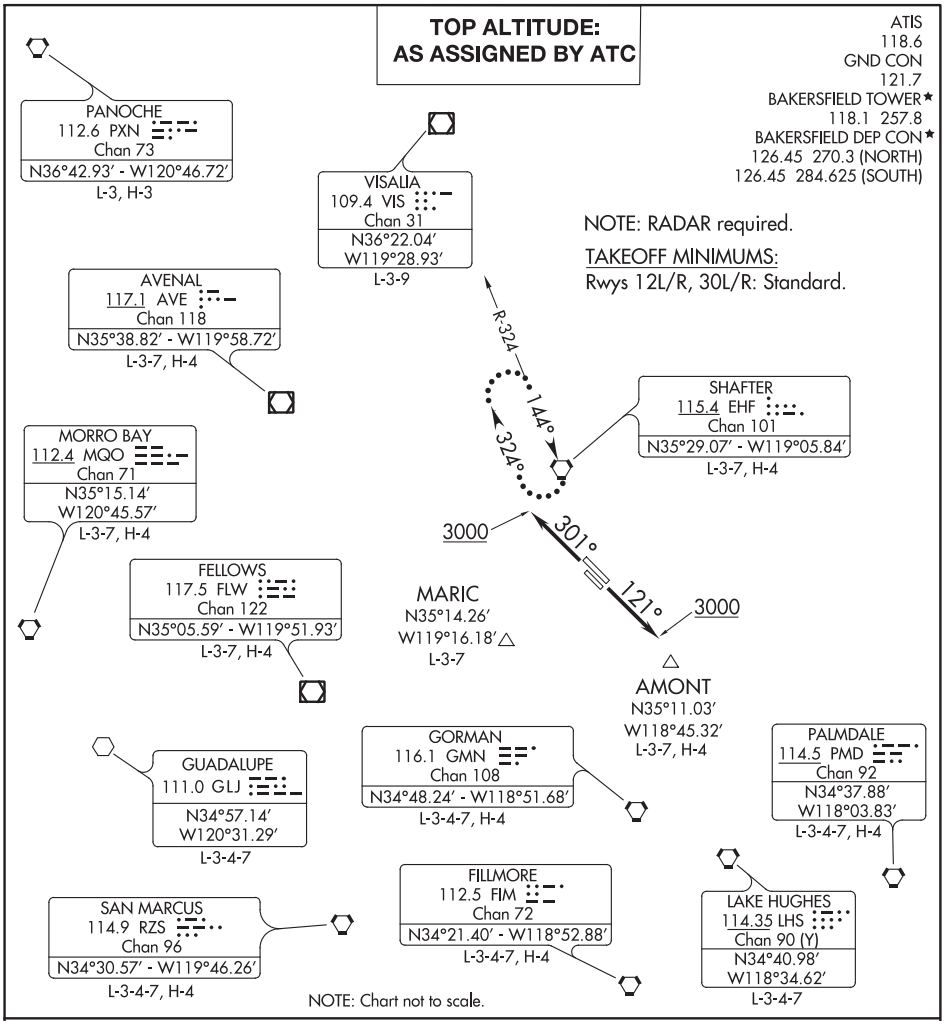
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(MEADO4.MEADO) 20310

MEADOWS FOUR DEPARTURE

AL-36 (FAA)

MEADOWS FIELD (BFL)
BAKERSFIELD, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/R: Climb heading 121° to 3000 for vector to assigned route/fix. Thence. . . .

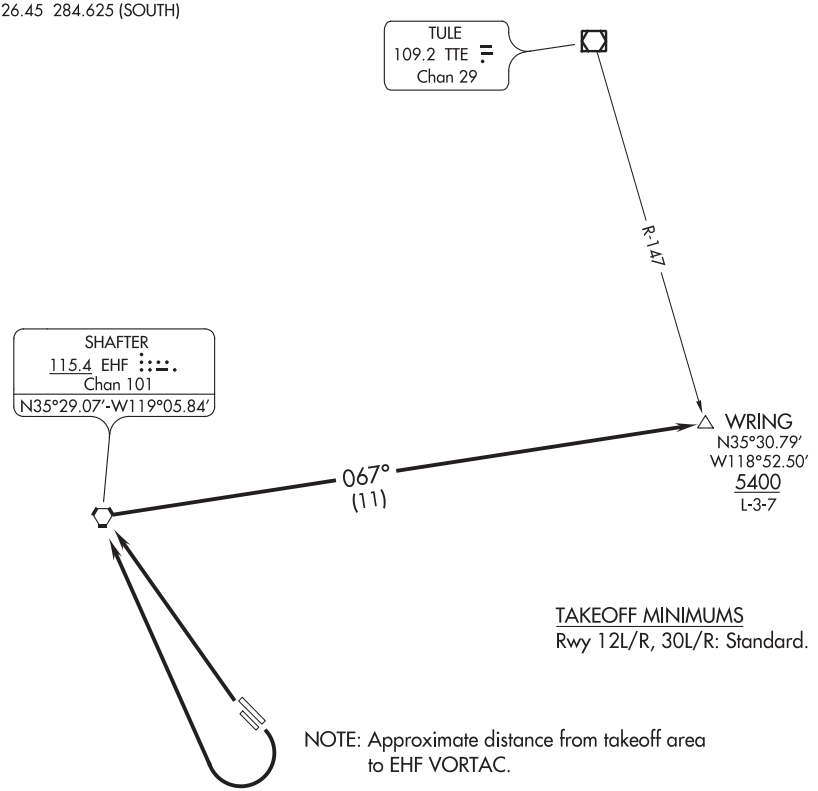
TAKEOFF RUNWAYS 30L/R: Climb heading 301° to 3000 for vector to assigned route/fix. Thence. . . .

. . . .Thence, maintain ATC assigned altitude. Expect clearance to requested altitude five minutes after departure.

LOST COMMUNICATIONS: If no radio contact for two minutes, proceed direct SHAFTER VORTAC and hold. Climb in holding pattern to expected altitude prior to proceeding on course.

ATIS
118.6
GND CON
121.7
BAKERSFIELD TOWER★
118.1 257.8
BAKERSFIELD DEP CON★
126.45 270.3 (NORTH)
126.45 284.625 (SOUTH)

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/R: Climbing right turn direct EHF VORTAC. Thence. . . .

TAKEOFF RUNWAYS 30L/R: Climb direct EHF VORTAC. Thence. . . .

. . . .From over EHF VORTAC via EHF R-067 to cross WRING at or above 5400. Thence via (assigned route).

SW-3, 05 NOV 2020 to 31 DEC 2020

BIG BEAR CITY, CALIFORNIA | AL-9469 (FAA) | 19171

WAAS	APP CRS	Rwy Idg	5250
CH 99434	256°	TDZE	6752
W26A		Apt Elev	6752

RNAV (GPS) RWY 26

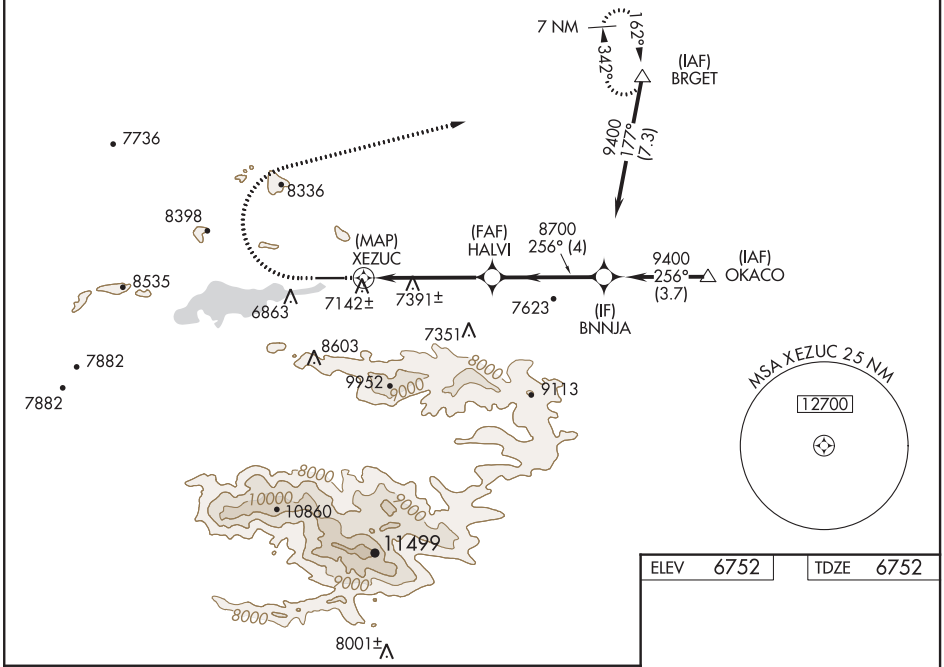
BIG BEAR CITY (L35)

RNP APCH.

Straight-in Rwy 26 NA at night. Circling Rwy 26 NA at night. Circling NA north of Rwy 8-26. Rwy 26 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH:
Climb to 8800, then climbing right turn to11000 direct BRGET and hold.

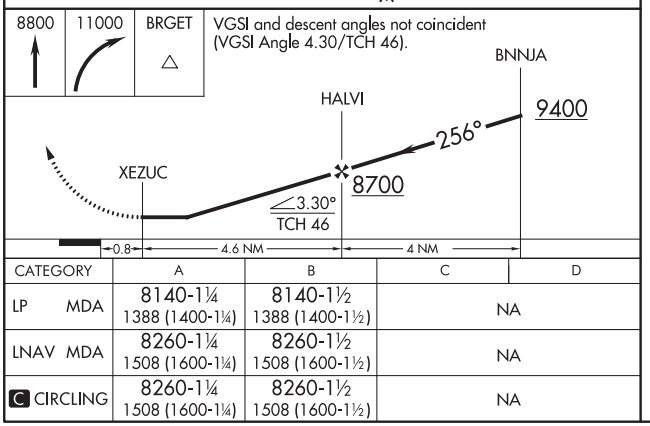
AWOS-3	LOS ANGELES CENTER	UNICOM
135.925	126.35 290.2	122.725 (CTAF) L



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ELEV	6752	TDZE	6752



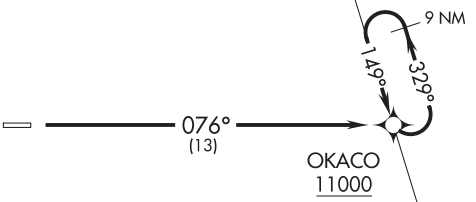
CATEGORY	A	B	C	D
LP MDA	8140-1¼ (1388 (1400-1¼))	8140-1½ (1388 (1400-1½))	NA	
LNAV MDA	8260-1¼ (1508 (1600-1¼))	8260-1½ (1508 (1600-1½))	NA	
C CIRCLING	8260-1¼ (1508 (1600-1¼))	8260-1½ (1508 (1600-1½))	NA	

MIRL Rwy 8-26 L

OKACO ONE DEPARTURE (OBSTACLE) (RNAV)

SL-9469 (FAA)

LOS ANGELES CENTER
126.35 290.2
UNICOM 122.725



TAKEOFF MINIMUMS
Rwy 8: 1200-2 or standard with minimum climb of 282′ per NM to 8000′.

TAKEOFF OBSTACLE NOTE
Rwy 8: 7439′ MSL trees 2.5 NM from DER, 2400′ right of centerline.

NOTE: For use by slant E, F, and G equipped aircraft only.
NOTE: GPS required.
NOTE: RNAV 1 .

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb via course 076° to OKACO WP; maintain 11000′ or as assigned by ATC. If not at 11000′ or at assigned cruising altitude upon reaching OKACO WP, climb in holding pattern unless otherwise advised by ATC.

BLYTHE, CALIFORNIA AL-53 (FAA) 19199

RNAV (GPS) RWY 26

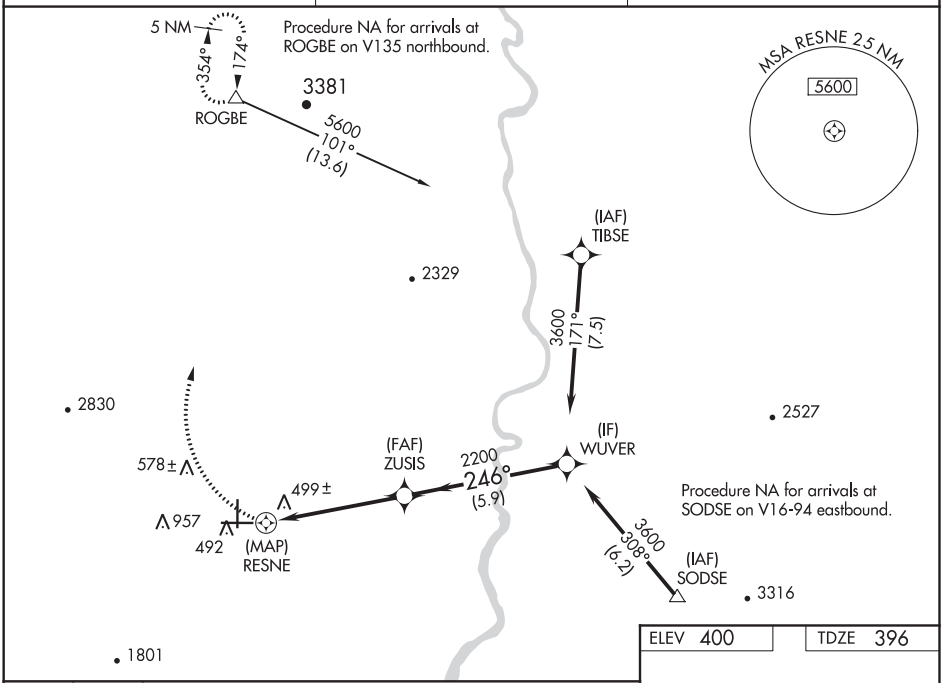
BLYTHE (BLH)

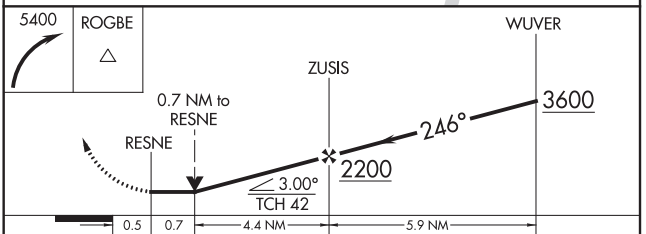
WAAS	APP CRS	Rwy Idg	6543
CH 45626	246°	TDZE	396
W26A		Apt Elev	400

When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.
#Missed approach requires a minimum climb of 375 feet per NM to 3500.
*Missed approach requires a minimum climb of 345 feet per NM to 3500.

MISSED APPROACH: Climbing right turn to 5400 direct ROGBE and hold, continue climb-in-hold to 5400.

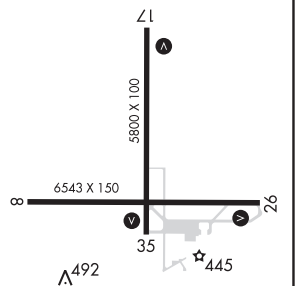
ASOS	LOS ANGELES CENTER	UNICOM
120.175	128.15 285.6	122.8 (CTAF) L





CATEGORY	A	B	C	D
*LP MDA	800-1 404 (400-1)		800-1⅛ 404 (400-1⅛)	
LP MDA	1940-1¼ 1544 (1600-1¼)	1940-1½ 1544 (1600-1½)	1940-3 1544 (1600-3)	
# LNAV MDA	800-1 404 (400-1)		800-1⅛ 404 (400-1⅛)	
LNAV MDA	2060-1¼ 1664 (1700-1¼)	2060-1½ 1664 (1700-1½)	2060-3 1664 (1700-3)	
CIRCLING	2060-1¼ 1660 (1700-1¼)	2060-1½ 1660 (1700-1½)	2060-3 1660 (1700-3)	

ELEV 400 TDZE 396



MIRL Rwys 8-26 and 17-35 L

BLYTHE, CALIFORNIA 33°37'N-114°43'W BLYTHE (BLH)

Amdt 1A 31MAR16

RNAV (GPS) RWY 26

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

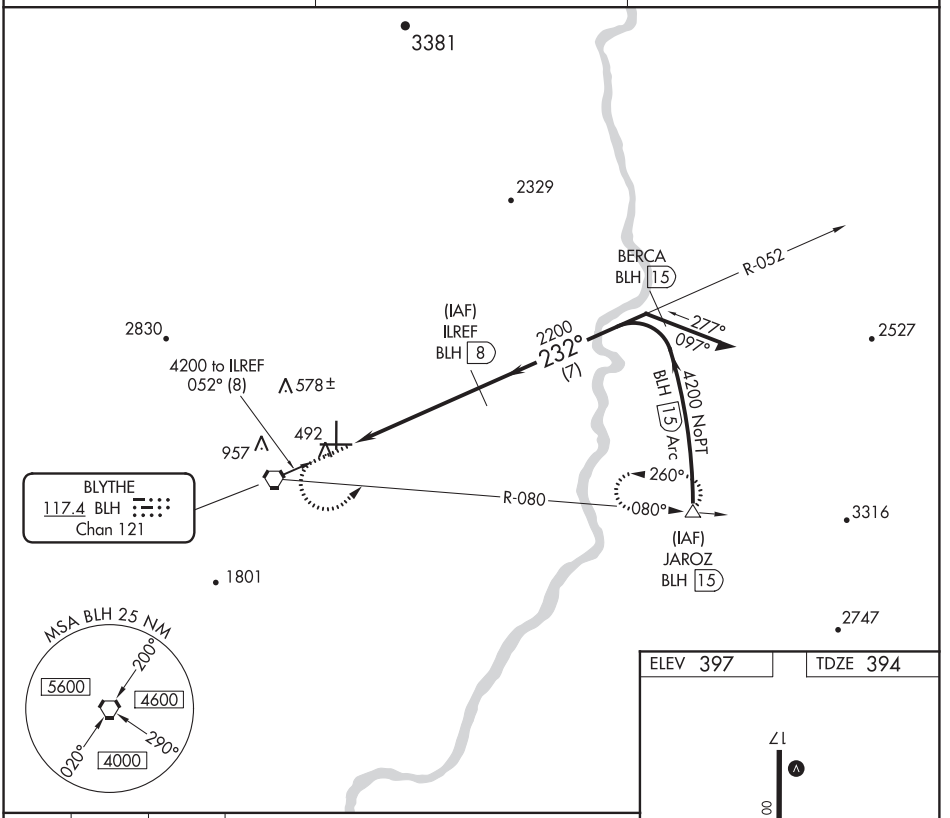
VOR/DME RWY 26

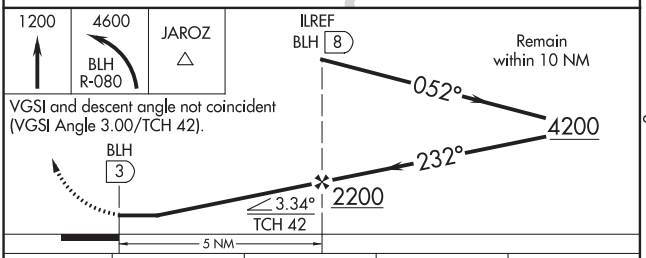
BLYTHE (BLH)

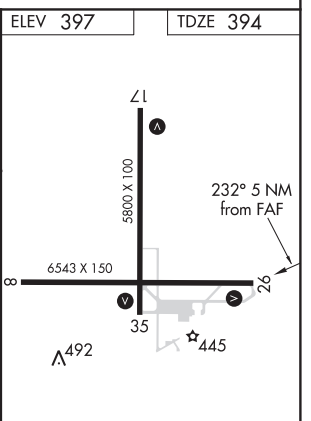
VORTAC BLH	APP CRS	Rwy Idg	6543
117.4	232°	TDZE	394
Chan 121		Apt Elev	397

MISSED APPROACH: Climb to 1200 then climbing left turn to 4600 via BLH VORTAC R-080 to JAROZ/15 DME and hold.

ASOS	LOS ANGELES CENTER	UNICOM
120.175	128.15 285.6	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-26	760-1 366 (400-1)			760-1¼ 366 (400-1¼)
CIRCLING	840-1 443 (500-1)	860-1 463 (500-1)	960-1½ 563 (600-1½)	1260-2¾ 863 (900-2¾)

MIRL Rwys 8-26 and 17-35 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

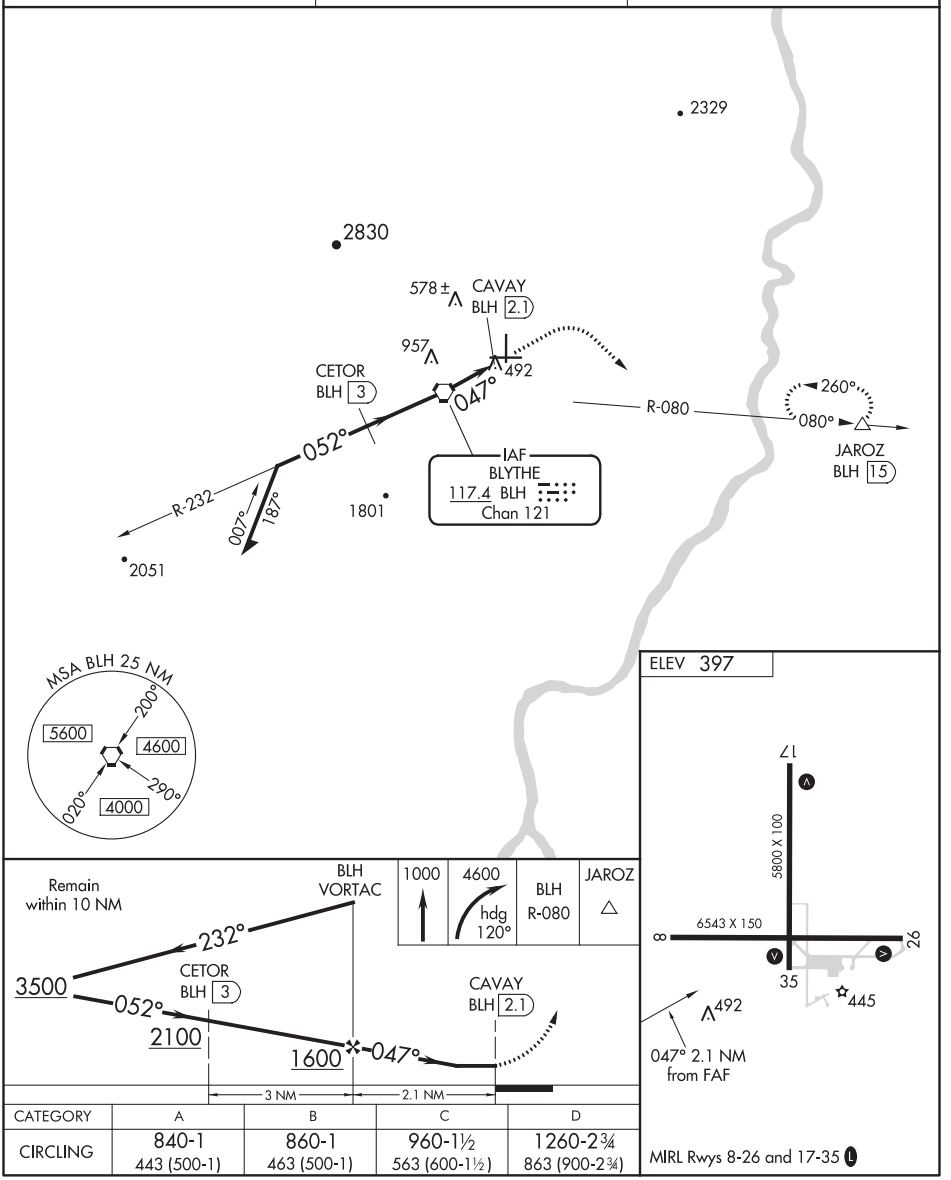
VORTAC BLH 117.4 Chan 121	APP CRS 047°	Rwy Idg N/A TDZE N/A Apt Elev 397

VOR/DME-A

BLYTHE (BLH)

MISSED APPROACH: Climb to 1000, then climbing right turn to 4600 via heading 120° and BLH R-080 outbound to JAROZ/15 DME and hold.

ASOS	LOS ANGELES CENTER	UNICOM
120.175	128.15 285.6	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	840-1 443 (500-1)	860-1 463 (500-1)	960-1½ 563 (600-1½)	1260-2¾ 863 (900-2¾)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	5011
250°	TDZE	520
	Apt Elev	520

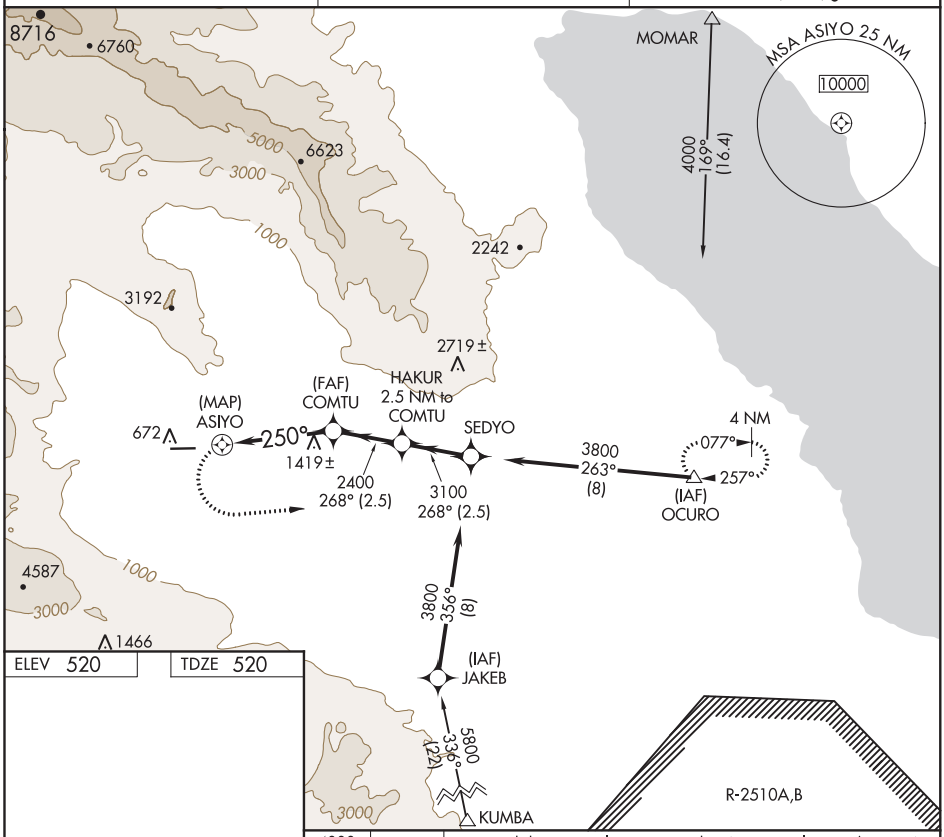
RNAV (GPS) RWY 26

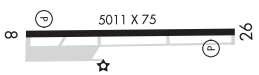
BORREGO VALLEY (LØ8)

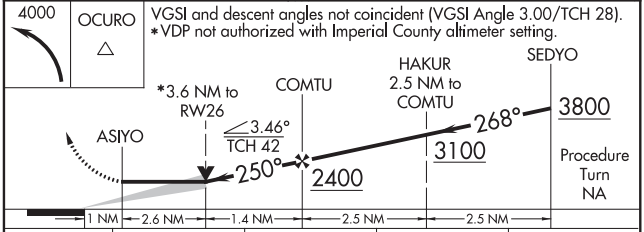
T
A NA — If local altimeter setting not received, use Imperial County altimeter setting and increase all MDAs 580 feet.
Circling not authorized south of Rwy 8-26.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 4000 direct OCURO WP and hold.

AWOS-3P	LOS ANGELES CENTER	UNICOM
126.575	128.6 291.7	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1720-1¼ 1200 (1200-1¼)	1720-1½ 1200 (1200-1½)	1720-3 1200 (1200-3)	
CIRCLING	1720-1¼ 1200 (1200-1¼)	1720-1½ 1200 (1200-1½)	1720-3 1200 (1200-3)	

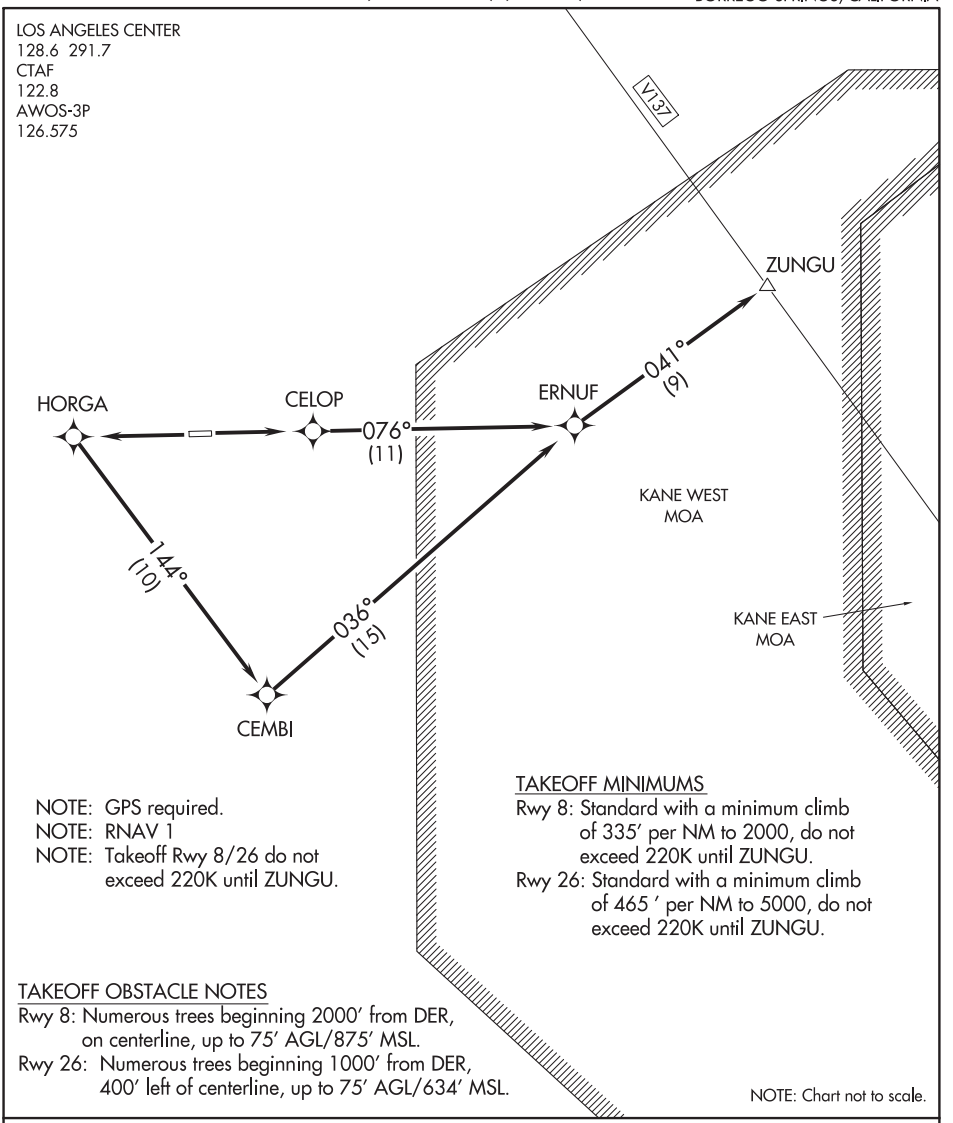
MIRL Rwy 8-26 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(ZUNGU1.ZUNGU) 18256 AL-9287 (FAA)

ZUNGU ONE DEPARTURE (OBSTACLE) (RNAV)

BORREGO VALLEY (L∅8)
BORREGO SPRINGS, CALIFORNIA



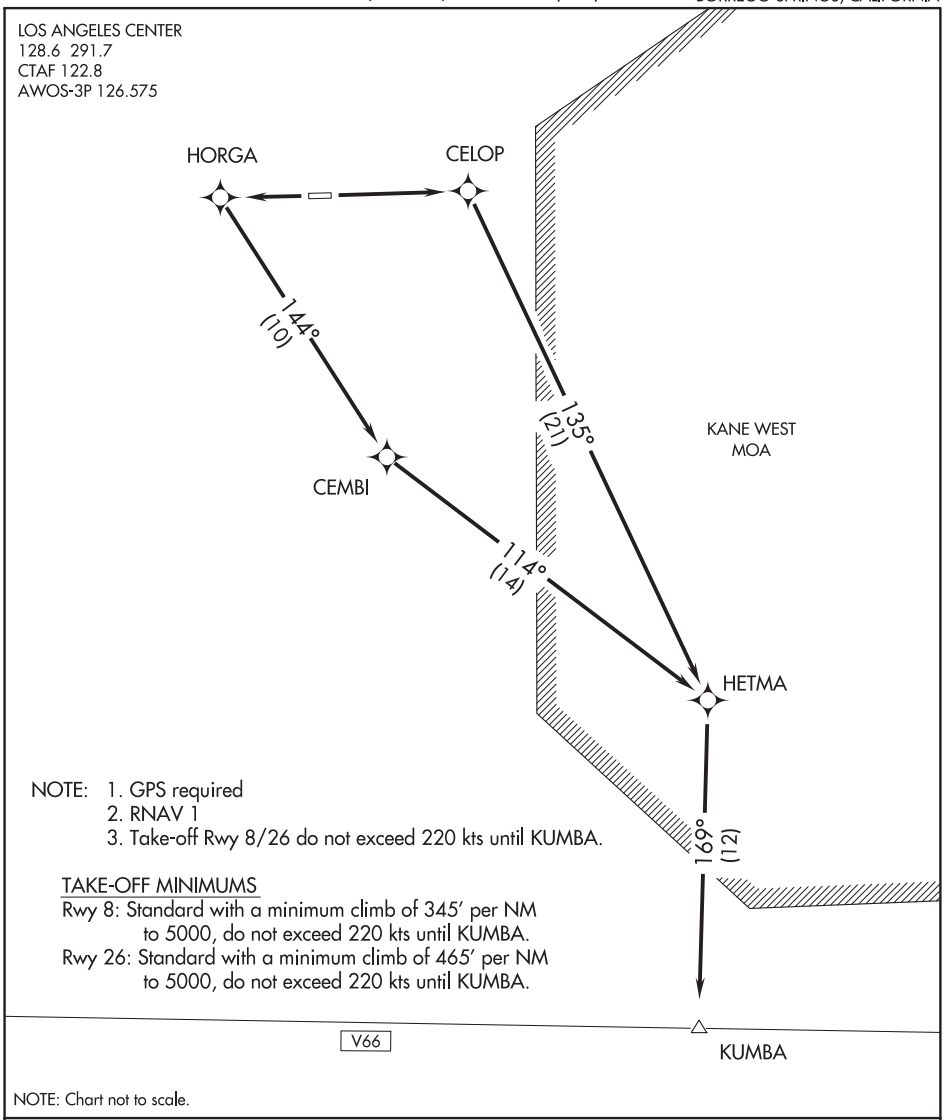
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb direct CELOP then via depicted route to ZUNGU.

TAKEOFF RUNWAY 26: Climb direct HORGA, and left turn 144° track to CEMBI, then via depicted route to ZUNGU.



SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb direct CELOP then via depicted route to KUMBA.

TAKE-OFF RUNWAY 26: Climb direct HORGA, and left turn 144° track to CEMBI, then via depicted route to KUMBA.

BRAWLEY, CALIFORNIA | AL-6932 (FAA) | 19283

RNAV (GPS) RWY 26

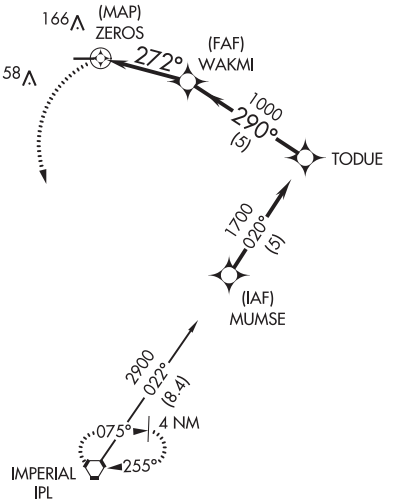
BRAWLEY MUNI (BWC)

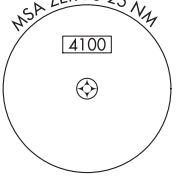
APP CRS	Rwy Idg	4006
272°	TDZE	-135
	Apt Elev	-129

T NA — GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA. Use Imperial County altimeter setting. Circling Rwy 8 NA at night.

MISSED APPROACH: Climbing left turn to 3600 direct IPL VORTAC and hold.

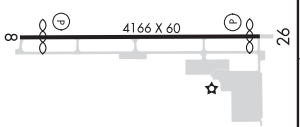
IPL ASOS	LOS ANGELES CENTER	CTAF
132.175	128.6 291.7	122.9 L

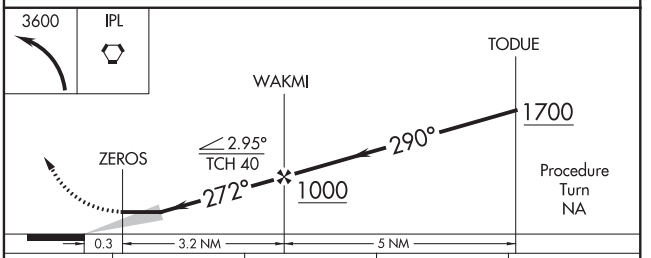




571

ELEV -129 | TDZE -135





CATEGORY	A	B	C	D
LNAV MDA	360-1	495 (500-1)	360-1¼ 495 (500-1¼)	NA
CIRCLING	560-1	689 (700-1)	560-2 689 (700-2)	NA

REIL Rwy 8 and 26 L
MIRL Rwy 8-26 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

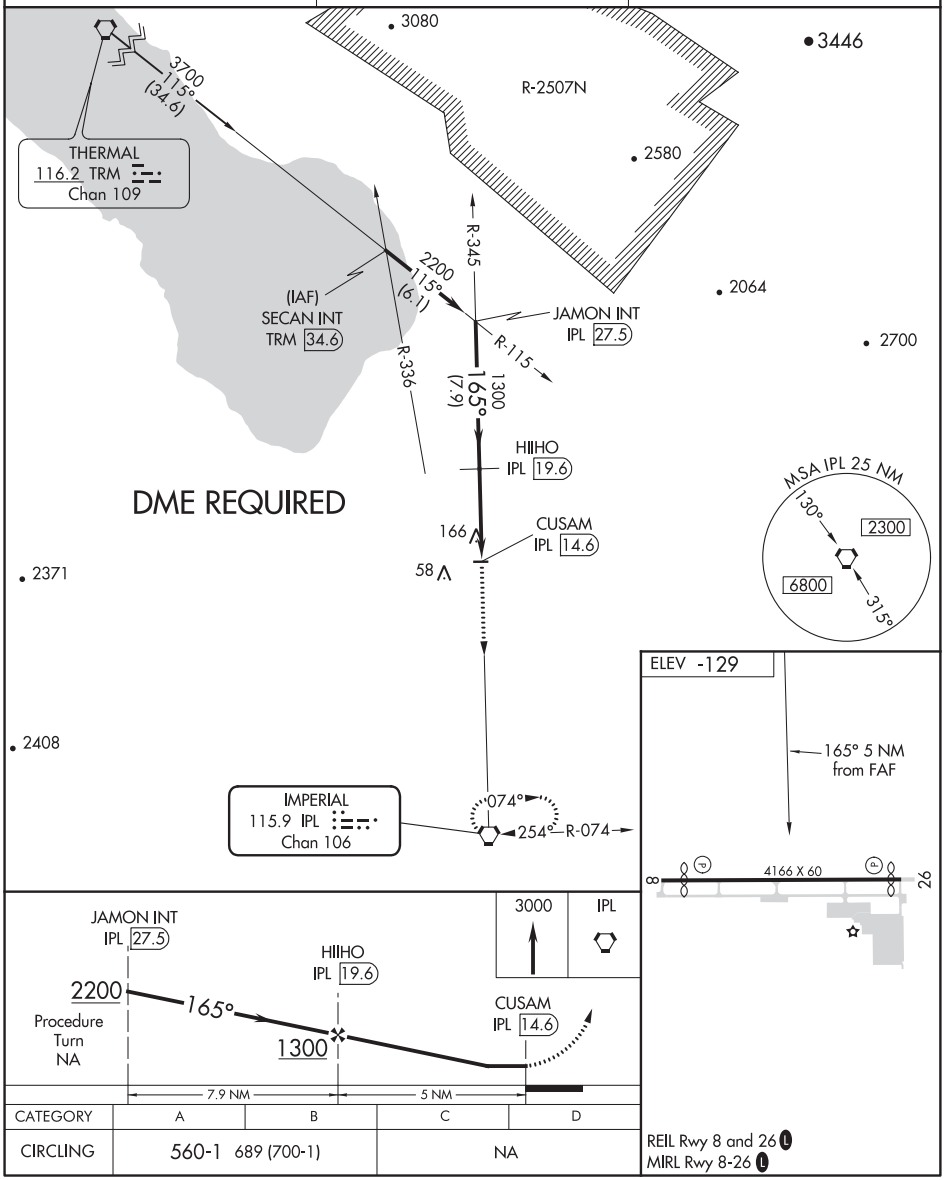
VORTAC IPL 115.9 Chan 106	APP CRS 165°	Rwy Idg N/A TDZE N/A Apt Elev -129

VOR-B
BRAWLEY MUNI (BWC)

▼ Use Imperial County altimeter setting.
▲ NA DME Required.
Circling Rwy 8 NA at night.

MISSED APPROACH: Climb to 3000 direct IPL VORTAC and hold.

IPL ASOS 132.175	LOS ANGELES CENTER 128.6 291.7	CTAF 122.9 L



CATEGORY	A	B	C	D
CIRCLING	560-1 689 (700-1)		NA	

REIL Rwy 8 and 26 L
MIRL Rwy 8-26 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

BURBANK, CALIFORNIA 20198

AL-67 (FAA)

ILS Y or LOC Y RWY 8

BOB HOPE (BUR)

LOC I-BUR	APP CRS	Rwy Idg	5801
109.5	079°	TDZE	727
		Apt Elev	778

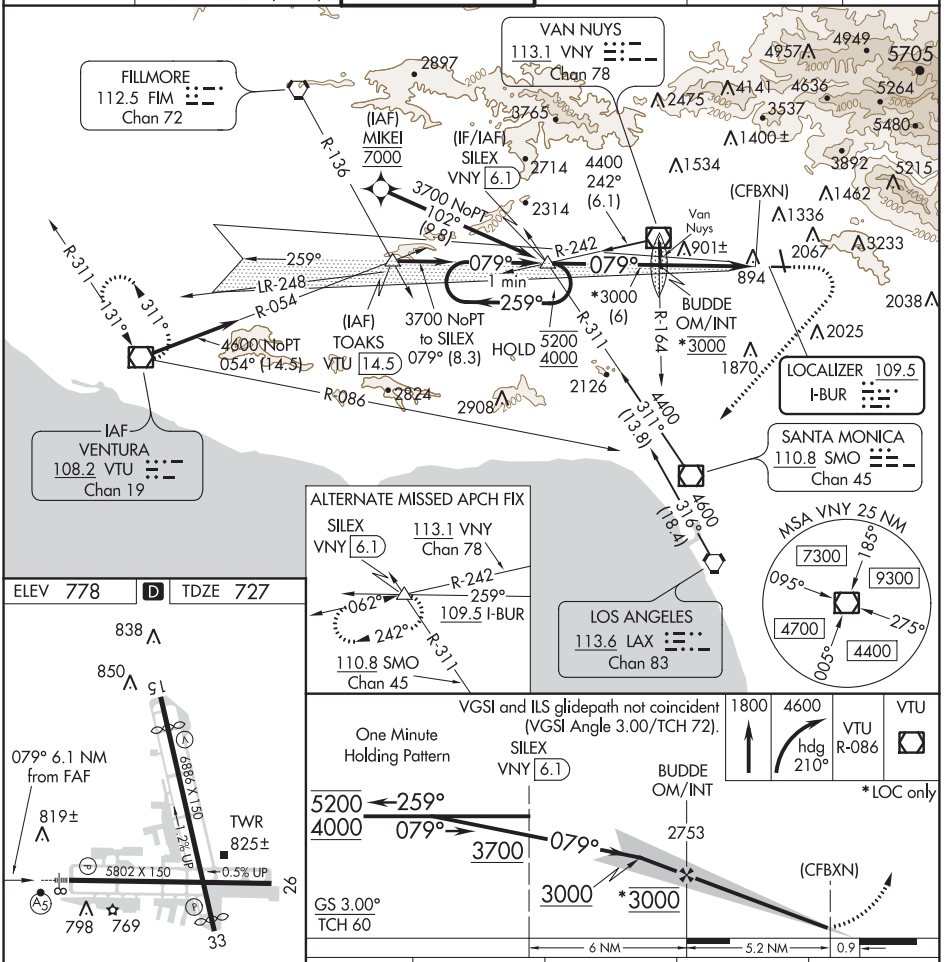
From MIKEI: RNAV 1-GPS required.

T Localizer unusable within 0.9 NM to thld. Straight-in Rwy 8 at night, Circling to Rwy 33 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Circling Rwy 26 NA at night and Circling Rwy 33 NA at night for Cat D. Circling NA for Cats A/B/C northeast of Rwy 15 and 26. Circling NA for Cat D east of Rwy 15-33. Inop table does not apply to S-ILS Rwy 8. For inop ALS, increase S-LOC 8 Cats A/B visibility to 1¼ SM. Rwy 8 helicopter visibility reduction below RVR 5000 NA.

MALSR (A5)

MISSED APPROACH: Climb to 1800 then climbing right turn to 4600 on heading 210° and VTU VOR/DME R-086 to VTU VOR/DME and hold.

D-ATIS	SOCAL APP CON	BURBANK TOWER	GND CON	CLNC DEL	CPDLC
134.5	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	118.7 254.3	123.9 348.6	118.0 348.6	



ELEV 778 D TDZE 727

MIRL Rwy 15-33
HIRL Rwy 8-26
REIL Rwys 15, 26 and 33

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

CATEGORY	A	B	C	D
S-ILS 8	1555-2½ 828 (800-2½)			
S-LOC 8	1620/50 893 (900-1)		1620-2 893 (900-2)	
C CIRCLING	1620-1¼ 842 (900-1¼)	1640-1¼ 862 (900-1¼)	2240-3 1462 (1500-3)	2320-3 1542 (1600-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

AL-67 (FAA)

ILS Z or LOC Z RWY 8

BOB HOPE (BUR)

LOC I-BUR	APP CRS	Rwy Idg	5801
109.5	079°	TDZE	727
		Apt Elev	778

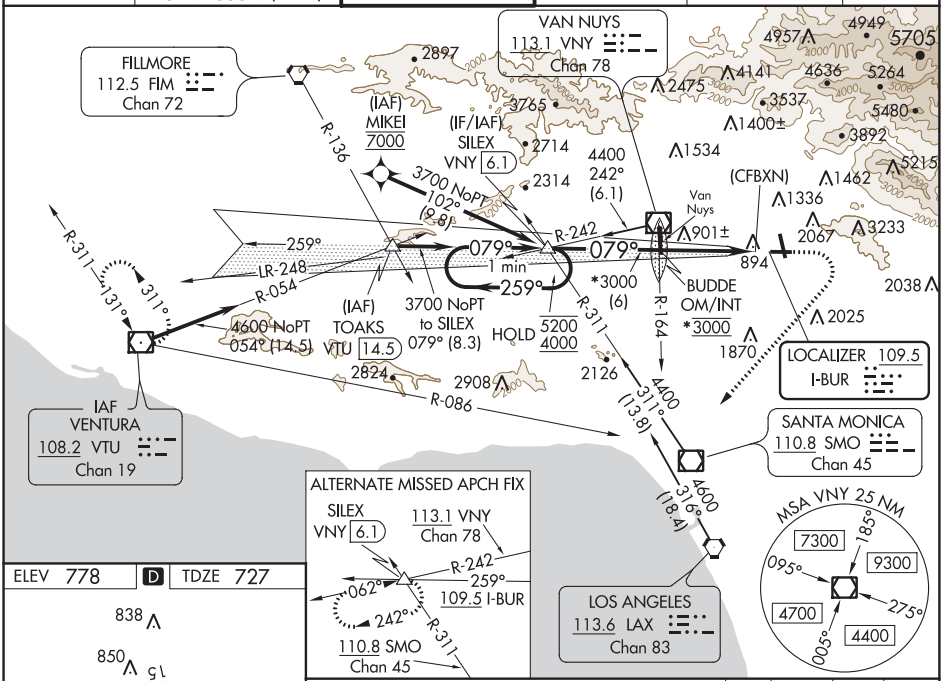
From MIKEI: RNAV 1-GPS required.

T Localizer unusable within 0.9 NM to thld. Straight-in Rwy 8 at night, Circling to A Rwy 33 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Circling Rwy 26 NA at night and Circling Rwy 33 NA at night for Cat D. Circling NA for Cats A/B/C northeast of Rwy 15 and 26. Circling NA for Cat D east of Rwy 15-33. Inop table does not apply to S-ILS 8. For inop ALS, increase S-LOC 8 Cats A/B visibility to RVR 6000 and S-LOC 8 Cats C/D visibility to 1¼ SM. Rwy 8 helicopter visibility reduction below RVR 5000 NA.

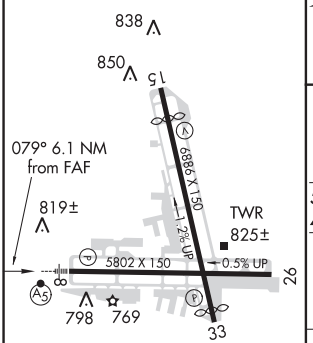
MALSR (A5)

MISSED APPROACH: Climb to 1300 then climbing right turn to 4600 on heading 210° and VTU VOR/DME R-086 to VTU VOR/DME and hold.
Missed approach requires a minimum climb of 340 feet per NM to 2520 (if unable to meet climb gradient, see ILS Y or LOC Y RWY 8).

D-ATIS	SOCAL APP CON	BURBANK TOWER	GND CON	CLNC DEL	CPDLC
134.5	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	118.7 254.3	123.9 348.6	118.0 348.6	



ELEV 778 | D | TDZE 727

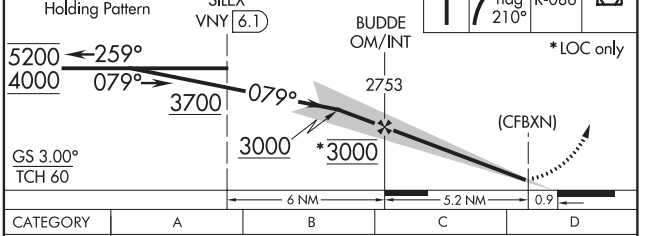


MIRL Rwy 15-33
HIRL Rwy 8-26
REIL Rwys 15, 26 and 33

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 72).

One Minute Holding Pattern



1300	4600	VTU
↑	hdg 210°	VTU R-086

*LOC only

CATEGORY	A	B	C	D
S-ILS 8#	1075/50 348 (300-1)			
S-LOC 8#	1160/50 433 (400-1)			
C CIRCLING	1280-1⅛ 502 (600-1⅛)	1640-1¼ 862 (900-1¼)	2240-3 1462 (1500-3)	2320-3 1542 (1600-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (RNP) Y RWY 8

BOB HOPE (BUR)

APP CRS	Rwy Idg	5801
079°	TDZE	727
	Apt Elev	778

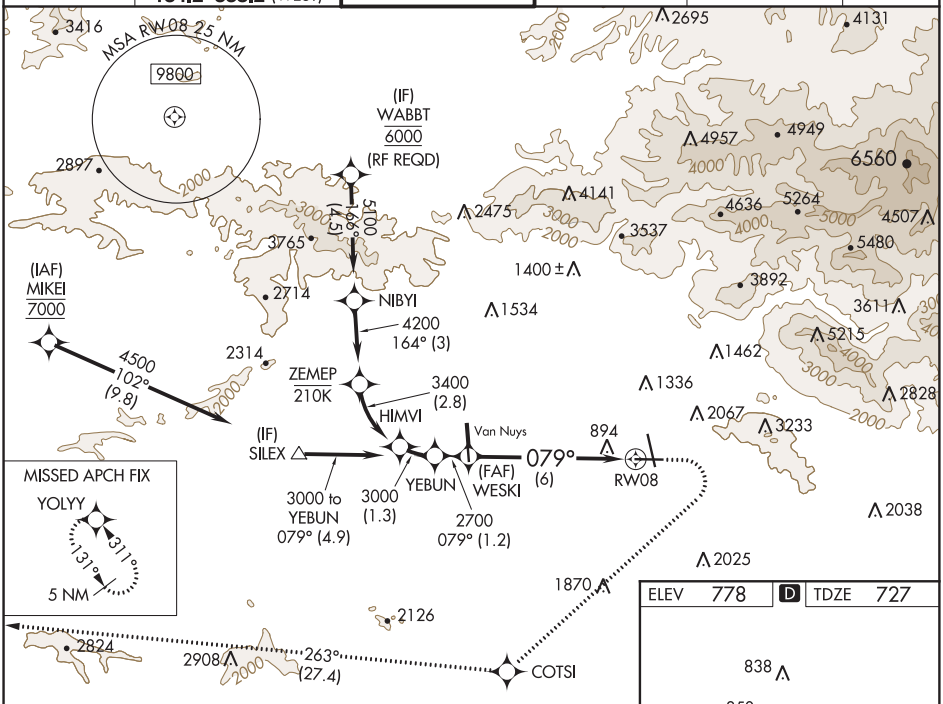
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below 1°C or above 54°C. Straight-in Rwy 8 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Inop table does not apply to RNP 0.20* and RNP 0.30. For inop ALS, increase RNP 0.30# all Cats visibility to 1¼ SM.

MALSR

MISSED APPROACH: Climb to 1200 then climbing right turn to 4600 direct COTSI and on track 263° to YOLYY and hold.
*Missed approach requires minimum climb of 340 feet per NM to 2400.
#Missed approach requires minimum climb of 317 feet per NM to 2400.

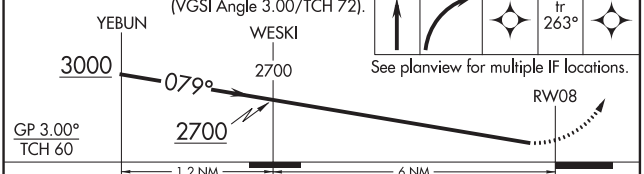
D-ATIS	SOCAL APP CON	BURBANK TOWER	GND CON	CLNC DEL	CPDLC
134.5	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	118.7 254.3	123.9 348.6	118.0 348.6	



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 72).

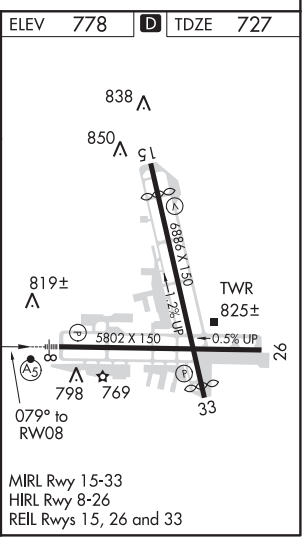


1200	4600	COTSI	tr 263°	YOLYY

See planview for multiple IF locations.

CATEGORY	A	B	C	D
RNP 0.20 DA*	1068/50 341 (300-1)			
RNP 0.30 DA#	1151/50 424 (400-1)			
RNP 0.30 DA	1485-2½ 758 (800-2½)			

AUTHORIZATION REQUIRED



MIRL Rwy 15-33
HIRL Rwy 8-26
REIL Rwys 15, 26 and 33

RNAV (GPS) Z RWY 8

BOB HOPE (BUR)

WAAS CH 53638 W08A	APP CRS 079°	Rwy Idg 5801 / TDZE 727 / Apt Elev 778

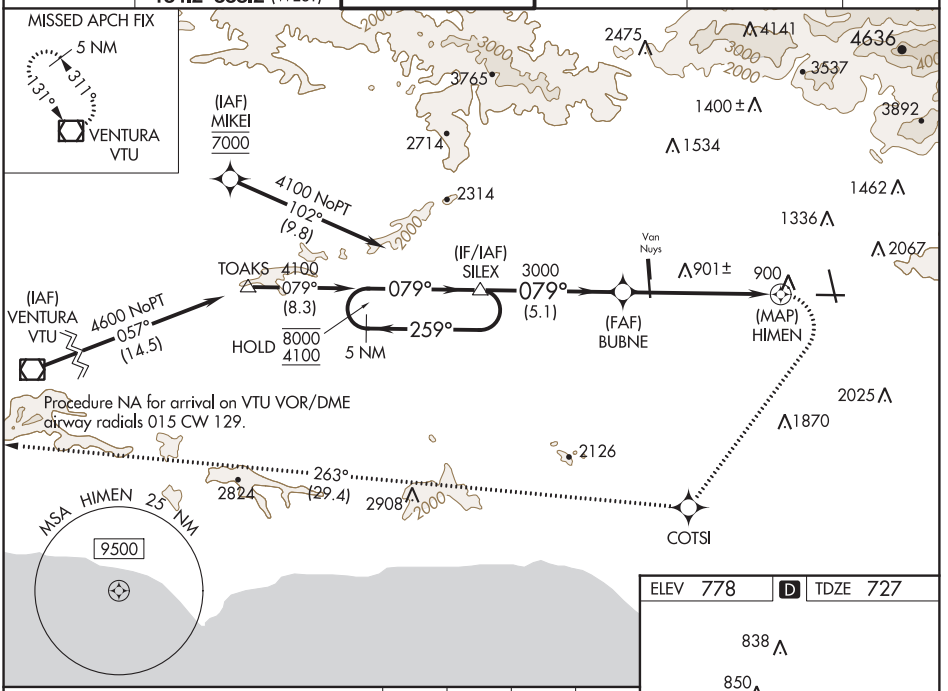
RNP APCH.

Straight-in Rwy 8 at night, Circling to Rwy 33 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Circling Rwy 26 NA at night and Circling Rwy 33 NA at night for Cat D. Circling NA for Cats A/B/C northeast of Rwy 15 and 26. Circling NA for Cat D east of Rwy 15-33. For inop ALS, increase LP Cat A/B visibility to 1½ SM and LP Cat C/D visibility to 2½ SM. For inop ALS, increase LNAV Cat A/B visibility to 1½ SM. Rwy 8 helicopter visibility reduction below RVR 5000 NA.

MALSR

MISSED APPROACH: Climbing right turn to 4600 direct COTSI and on track 263° to VTU VOR/DME and hold.

D-ATIS	SOCAL APP CON	BURBANK TOWER	GND CON	CLNC DEL	CPDLC
134.5	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	118.7 254.3	123.9 348.6	118.0 348.6	

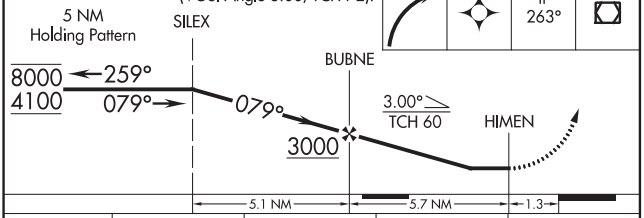


SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

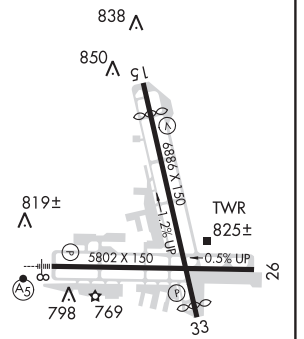
VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 72).

4600	COTSI	tr 263°	VTU



CATEGORY	A	B	C	D
LP MDA	1540/60	813 (800-1¼)	1540-1⅞	813 (800-1⅞)
LNAV MDA	1660/60	933 (900-1¼)	1660-2	933 (900-2)
C CIRCLING	1660-1½	882 (900-1½)	2240-3 1462 (1500-3)	2320-3 1542 (1600-3)

ELEV 778 D TDZE 727



MIRL Rwy 15-33
HIRL Rwy 8-26
REIL Rwys 15, 26, and 33

BURBANK, CALIFORNIA AL-67 (FAA) 20310

RNAV (GPS)-A

BOB HOPE (BUR)

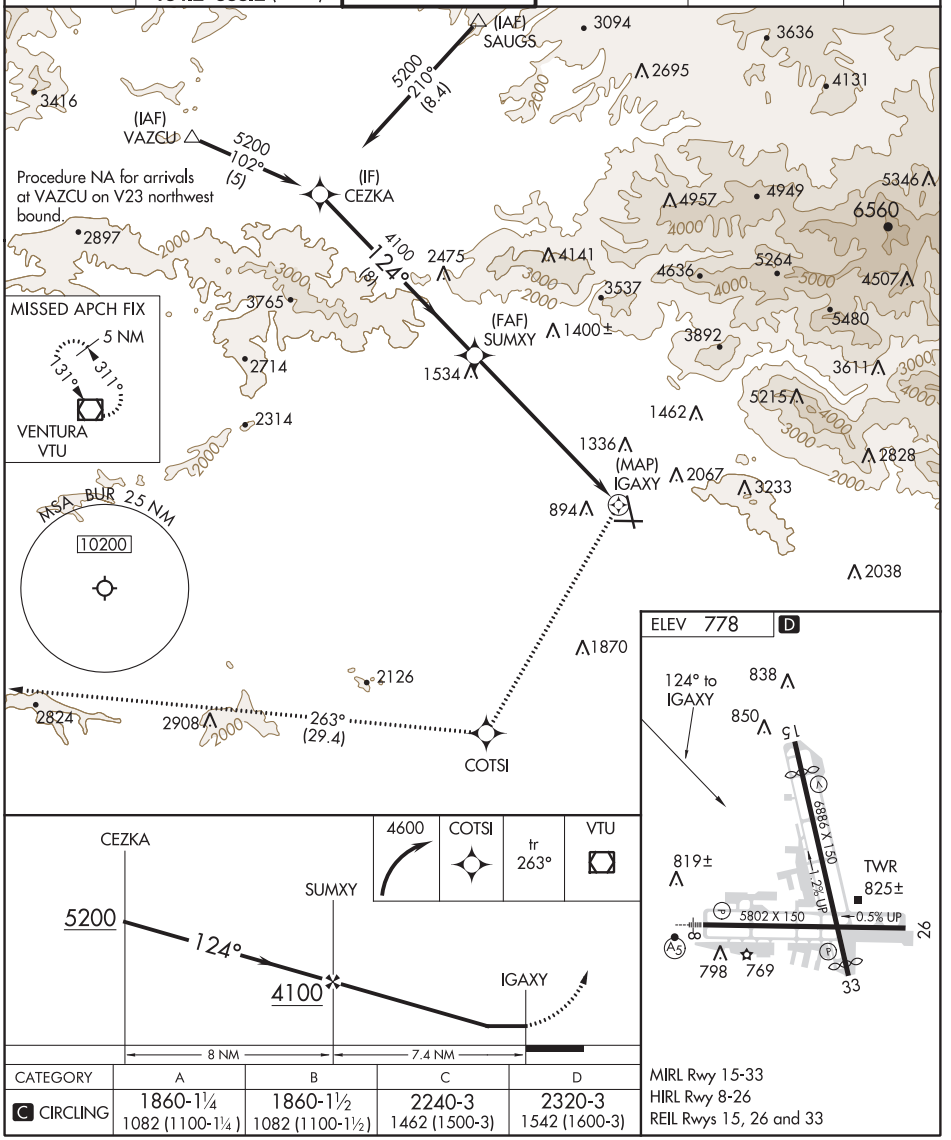
APP CRS	Rwy Idg	N/A
124°	TDZE	N/A
	Apt Elev	778

RNP APCH.

Circling NA for Cats A/B/C northeast of Rwys 15 and 26. Circling NA for Cat D east of Rwy 15-33. Circling Rwy 26 NA at night and Circling Rwy 33 NA at night for Cat D. Circling to Rwy 8, 33 at night, operational VGSI required, remain on or above VGSI glidepath until threshold.

MISSED APPROACH: Climbing right turn to 4600 direct COTSI on track 263° to VTU VOR/DME and hold.

D-ATIS	SOCAL APP CON	BURBANK TOWER	GND CON	CLNC DEL	CPDLC
134.5	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	118.7 254.3	123.9 348.6	118.0 348.6	



CATEGORY	A	B	C	D
C CIRCLING	1860-1¼ 1082 (1100-1¼)	1860-1½ 1082 (1100-1½)	2240-3 1462 (1500-3)	2320-3 1542 (1600-3)

MIRL Rwy 15-33
HIRL Rwy 8-26
REIL Rwys 15, 26 and 33

BURBANK, CALIFORNIA
Orig-A 28FEB19

34°12'N-118°22'W

BOB HOPE (BUR)
RNAV (GPS)-A

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

VOR RWY 8

BOB HOPE (BUR)

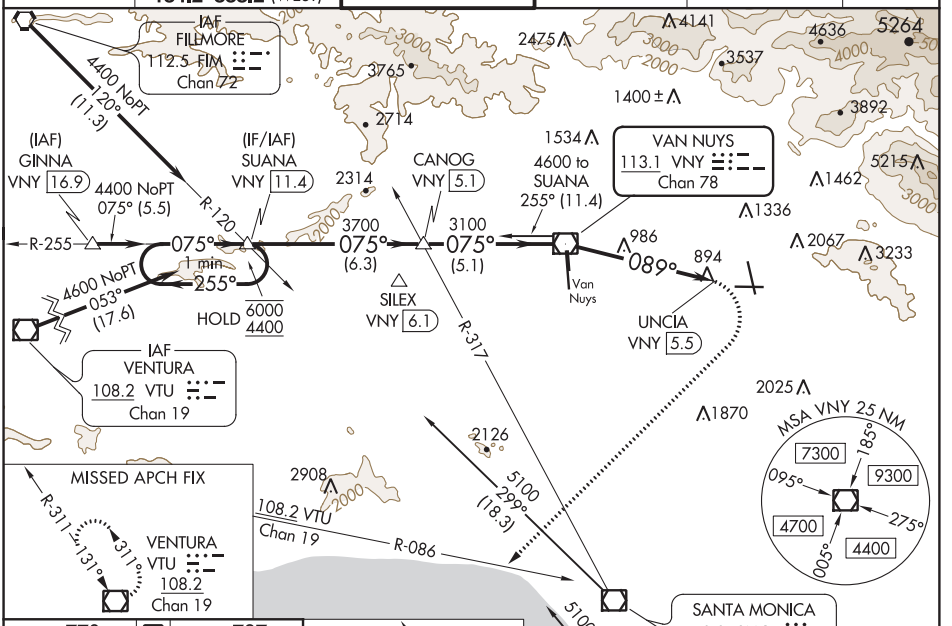
VOR/DME VNY	APP CRS	Rwy Idg	5801
113.1	089°	TDZE	727
Chan 78		Apt Elev	778

T A Straight-in Rwy 8 at night, Circling to Rwy 33 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Circling Rwy 26 NA at night and Circling Rwy 33 NA at night for Cat D. Circling NA for Cats A/B/C northeast of Rwy 15 and 26. Circling NA for Cat D east of Rwy 15-33. Inop table does not apply. Rwy 8 helicopter visibility reduction below RVR 5000 NA.

MALSR

MISSED APPROACH: Climbing right turn to 4600 on heading 210° and VTU VOR/DME R-086 to VTU VOR/DME and hold.

D-ATIS	SOCAL APP CON	BURBANK TOWER	GND CON	CLNC DEL	CPDLC
134.5	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	118.7 254.3	123.9 348.6	118.0 348.6	



ELEV 778 | D | TDZE 727

089° 6.3 NM from FAF

6886 X 150 — 1.2% UP

5802 X 150 — 0.5% UP

TWR

MIRL Rwy 15-33
HIRL Rwy 8-26
REIL Rwys 15, 26 and 33

SILEX VNY 6.1
R-311
113.1 VNY Chan 78
R-242
062°
242°
110.8 SMO Chan 45
ALTERNATE MISSED APCH FIX

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 72).

4600 hdg 210° | VTU R-086 | VTU

One Minute Holding Pattern

SUANA INT VNY 11.4

CANOG INT VNY 5.1

VNY VOR/DME

6000 4400 ← 255° 075° → 075° 3700 3100 089°

3.46° TCH 60

UNCIA VNY 5.5

6.3 NM | 5.1 NM | 5.5 NM | 0.8

FAF to MAP 5.5 NM

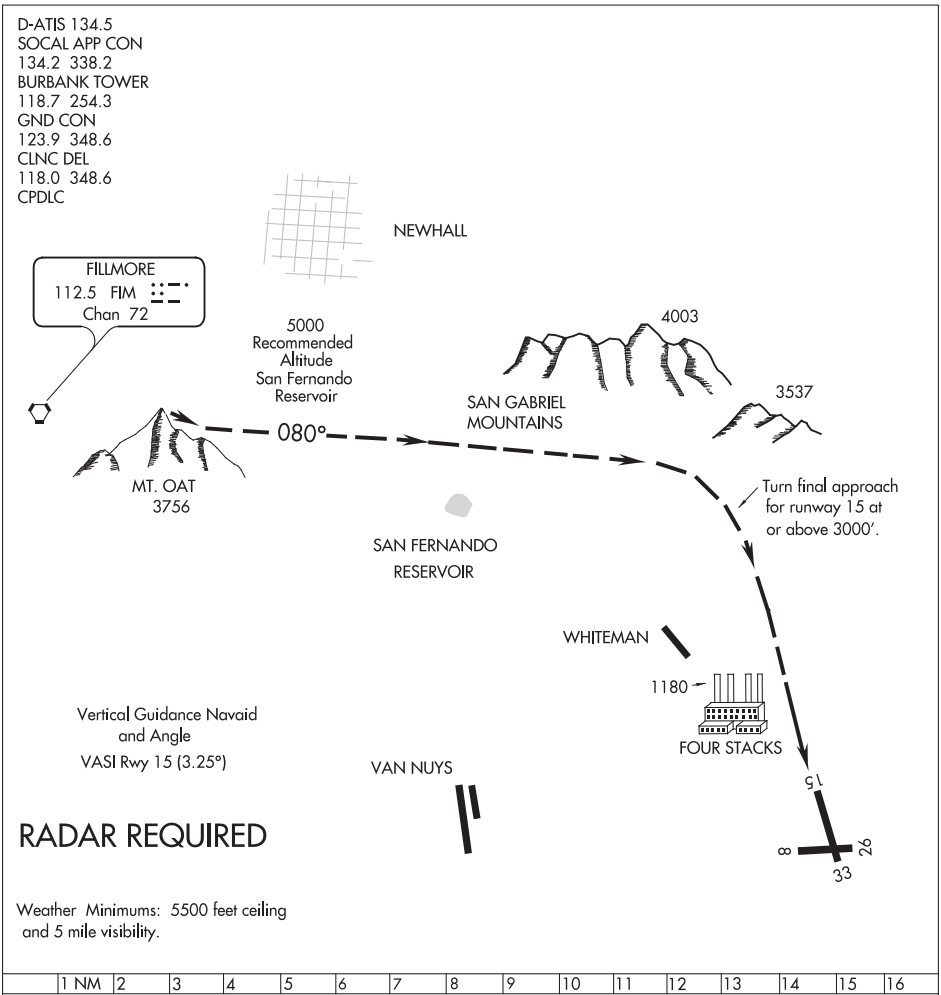
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

CATEGORY	A	B	C	D
S-8	1600/55 873 (900-1)	1600-1¼ 873 (900-1¼)	1600-2½ 873 (900-2½)	
C CIRCLING	1600-1¼ 822 (900-1¼)	1640-1¼ 862 (900-1¼)	2240-3 1462 (1500-3)	2320-3 1542 (1600-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

FOUR STACKS VISUAL RWY 15

BOB HOPE (BUR)
BURBANK, CALIFORNIA



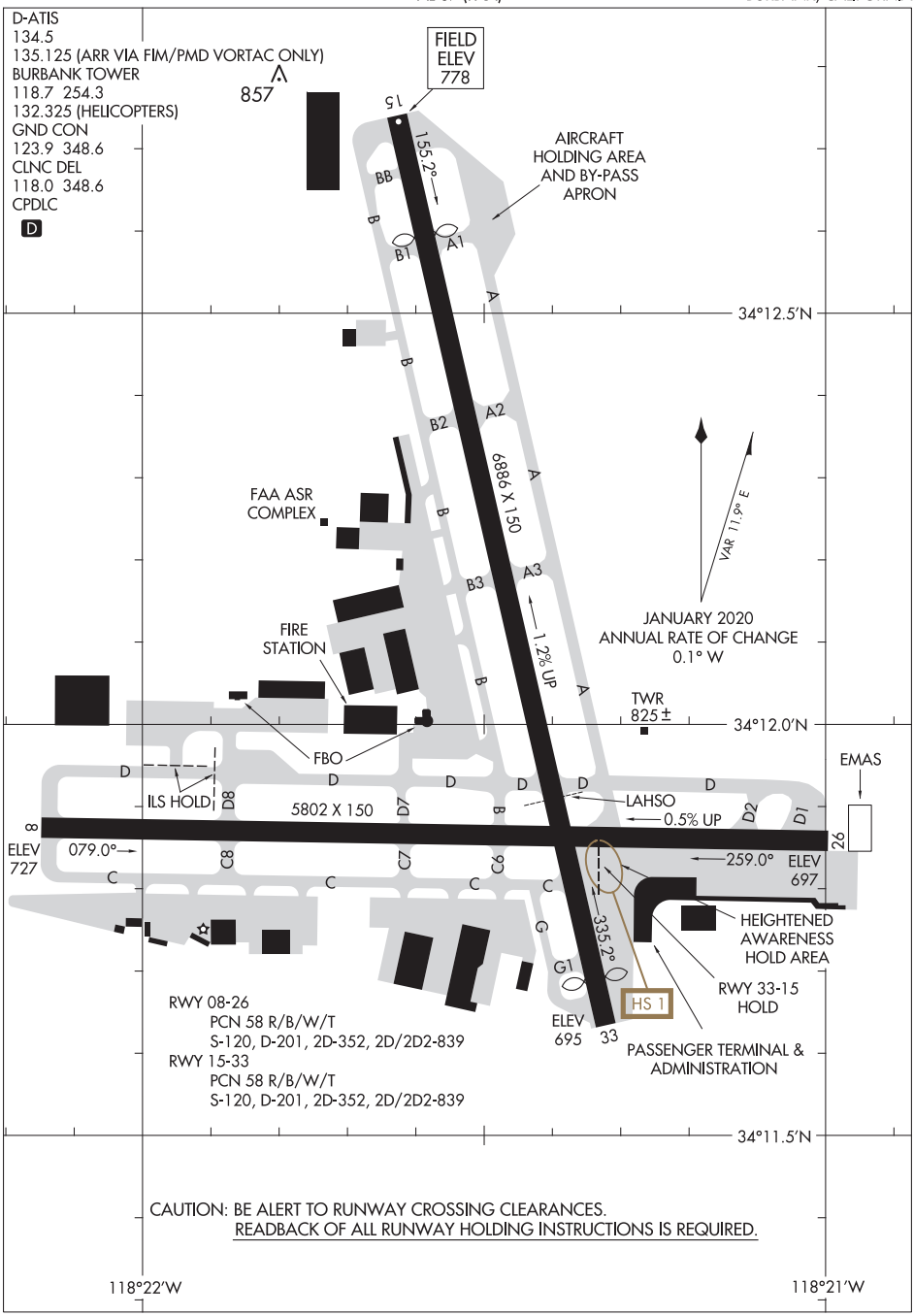
FOUR STACKS VISUAL APPROACH RWY 15

When Visual Approaches to Runway 15 are in progress, clearances will be given to aircraft from the Northwest thru Northeast utilizing the following phraseology:

"(IDENT) CLEARED FOR FOUR STACKS VISUAL APPROACH TO RUNWAY 15."

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

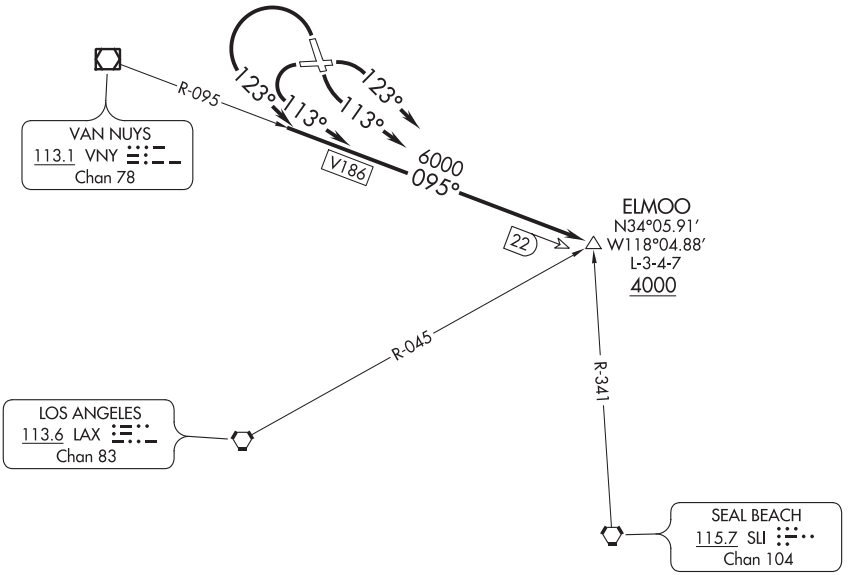
(ELMOO9.ELMOO) 19115
ELMOO NINE DEPARTURE

AL-67 (FAA)

BOB HOPE (BUR)
BURBANK, CALIFORNIA

CLNC DEL
118.0 348.6
CPDLC
SOCAL DEP CON
135.05 317.5

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwy 8: Standard with minimum climb of 380' per NM to 2500.
Rwy 15: Standard with minimum climb of 450' per NM to 3000.
Rwy 26: Standard with minimum climb of 305' per NM to 2600.
Rwy 33: 600-2¼ with minimum climb of 210' per NM to 4000
or standard with minimum climb of 450' per NM to 2600.

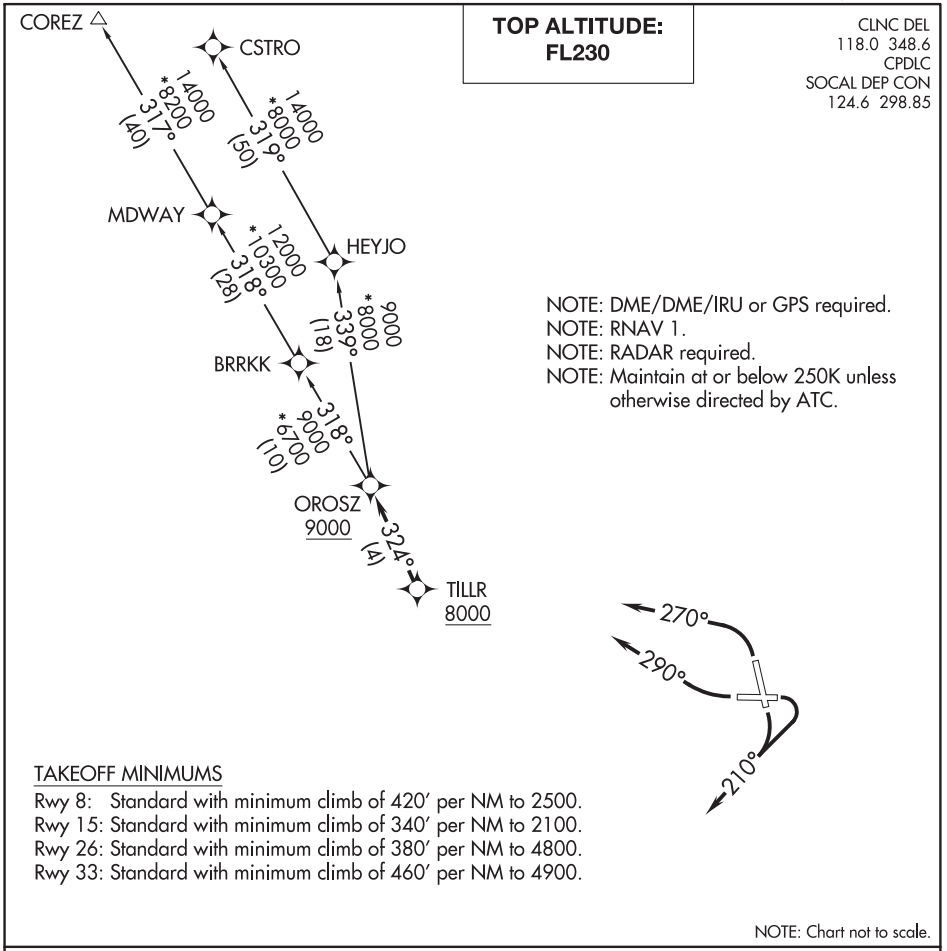
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climbing right turn heading 123° intercept VNY VOR/DME R-095 to ELMOO. . . .
TAKEOFF RUNWAY 15: Climbing left turn heading 113° intercept VNY VOR/DME R-095 to ELMOO. . . .
TAKEOFF RUNWAY 26: Climbing left turn heading 113° intercept VNY VOR/DME R-095 to ELMOO. . . .
TAKEOFF RUNWAY 33: Climbing left turn heading 123° intercept VNY VOR/DME R-095 to ELMOO. . . .

. . . .thence via assigned route. Maintain ATC assigned altitude.

SW-3, 05 NOV 2020 to 31 DEC 2020



TAKEOFF MINIMUMS

Rwy 8: Standard with minimum climb of 420′ per NM to 2500.
Rwy 15: Standard with minimum climb of 340′ per NM to 2100.
Rwy 26: Standard with minimum climb of 380′ per NM to 4800.
Rwy 33: Standard with minimum climb of 460′ per NM to 4900.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8, 15: Climbing right turn heading 210° or as assigned by ATC, expect vectors to cross TILLR at or above 8000, then on track 324° to cross OROSZ at or above 9000, thence. . . .

TAKEOFF RUNWAY 26: Climbing right turn heading 290° or as assigned by ATC, expect vectors to cross TILLR at or above 8000, then on track 324° to cross OROSZ at or above 9000, thence. . . .

TAKEOFF RUNWAY 33: Climbing left turn heading 270° or as assigned by ATC, expect vectors to cross TILLR at or above 8000, then on track 324° to cross OROSZ at or above 9000, thence. . .

. . . .on (transition) maintain FL230. Expect filed altitude 10 minutes after departure.

COREZ TRANSITION (OROSZ2.COREZ)

CSTRO TRANSITION (OROSZ2.CSTRO)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(SLAPP2.SLAPP) 20254

SLAPP TWO DEPARTURE (RNAV)

AL-67 (FAA)

BOB HOPE (BUR)
BURBANK, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climbing right turn to heading 210°, expect vectors to RAYVE, then on track 009° to cross SLAPP at or above 13000, thence. . . .

TAKEOFF RUNWAY 15: Climbing right turn to heading 210°, or as assigned by ATC, expect vectors to RAYVE, then on track 009° to cross SLAPP at or above 13000, thence. . . .

TAKEOFF RUNWAY 26: Climbing right turn to heading 290°, expect vectors to RAYVE, then on track 009° to cross SLAPP at or above 13000, thence. . . .

TAKEOFF RUNWAY 33: Climbing left turn to heading 270°, expect vectors to RAYVE, then on track 009° to cross SLAPP at or above 13000, thence. . . .

. . . .on (transition) maintain FL230. Expect filed altitude 10 minutes after departure.

BLYTHE TRANSITION (SLAPP2.BLH)

HAILO TRANSITION (SLAPP2.HAILO)

HECTOR TRANSITION (SLAPP2.HEC)

LAS VEGAS TRANSITION (SLAPP2.LAS)

MISEN TRANSITION (SLAPP2.MISEN)

SW-3, 05 NOV 2020 to 31 DEC 2020

(VNY3.VNY) 20310

VAN NUYS THREE DEPARTURE

AL-67 (FAA)

BOB HOPE (BUR)
BURBANK, CALIFORNIA

SW-3, 06 NOV 2020 to 31 DEC 2020

VAN NUYS THREE DEPARTURE

(VNY3.VNY) 26MAY16

BOB HOPE (BUR)
BURBANK, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climbing right turn heading 213° . . . .
TAKEOFF RUNWAY 15: Climbing right turn heading 213° . . . .
TAKEOFF RUNWAY 26: Climbing right turn heading 293° . . . .
TAKEOFF RUNWAY 33: Climbing left turn heading 273° . . . .

. . . .expect RADAR vector to VNY VOR/DME. Thence via (transition) or (assigned route).

AVENAL TRANSITION (VNY3.AVE): From over VNY VOR/DME on VNY R-255 and LAX R-323 to TWINE, then on LAX R-323 and GMN R-142 to GMN VORTAC, then on GMN R-310 and AVE R-086 to AVE VOR/DME.
DAGGETT TRANSITION (VNY3.DAG): From over VNY VOR/DME on VNY R-255 and LAX R-323 to TWINE, then on VTU R-046 and PMD R-218 to PMD VORTAC, then on PMD R-067 and DAG R-238 to DAG VORTAC.
FILLMORE TRANSITION (VNY3.FIM): From over VNY VOR/DME on VNY R-255 and FIM R-120 to FIM VORTAC.
GORMAN TRANSITION (VNY3.GMN): From over VNY VOR/DME on VNY R-255 and LAX R-323 to TWINE, then on LAX R-323 and GMN R-142 to GMN VORTAC.
PALMDALE TRANSITION (VNY3.PMD): From over VNY VOR/DME on VNY R-255 and LAX R-323 to TWINE, then on VTU R-046 and PMD R-218 to PMD VORTAC.
TWINE TRANSITION (VNY3.TWINE): From over VNY VOR/DME on VNY R-255 and LAX R-323 to TWINE.

SW-3, 05 NOV 2020 to 31 DEC 2020

VVERA TWO DEPARTURE (RNAV)

(VVERA2.VVERA) 12OCT17

(VVERA2.VVERA) 17285

VVERA TWO DEPARTURE (RNAV)

BOB HOPE (BUR)

BURBANK, CALIFORNIA

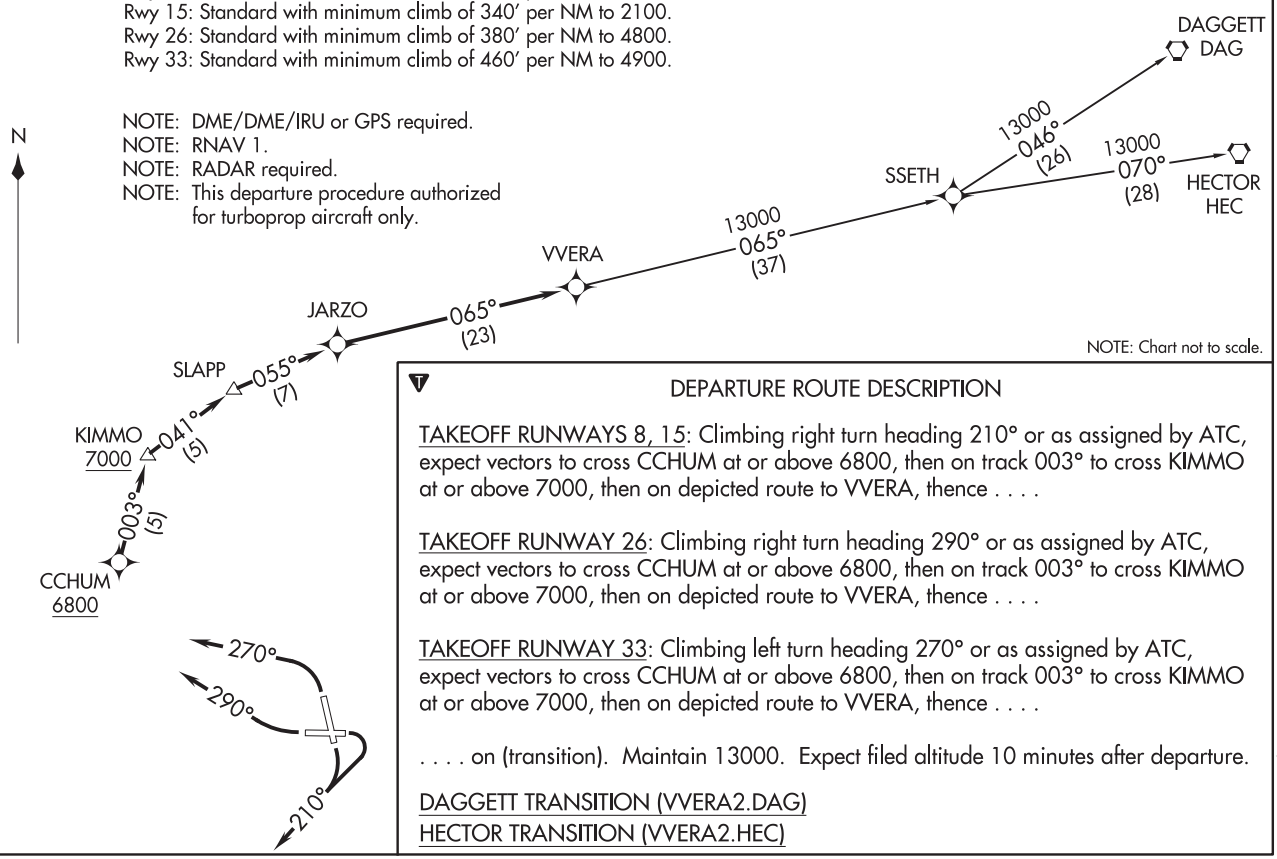
SOCAL DEP CON
124.6 298.85
CLNC DEL
118.0 348.6
CPDLC

TOP ALTITUDE: 13000

TAKEOFF MINIMUMS

Rwy 8: Standard with minimum climb of 420′ per NM to 2500.
Rwy 15: Standard with minimum climb of 340′ per NM to 2100.
Rwy 26: Standard with minimum climb of 380′ per NM to 4800.
Rwy 33: Standard with minimum climb of 460′ per NM to 4900.

NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: This departure procedure authorized for turboprop aircraft only.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8, 15: Climbing right turn heading 210° or as assigned by ATC, expect vectors to cross CCHUM at or above 6800, then on track 003° to cross KIMMO at or above 7000, then on depicted route to VVERA, thence . . . .

TAKEOFF RUNWAY 26: Climbing right turn heading 290° or as assigned by ATC, expect vectors to cross CCHUM at or above 6800, then on track 003° to cross KIMMO at or above 7000, then on depicted route to VVERA, thence . . . .

TAKEOFF RUNWAY 33: Climbing left turn heading 270° or as assigned by ATC, expect vectors to cross CCHUM at or above 6800, then on track 003° to cross KIMMO at or above 7000, then on depicted route to VVERA, thence . . . .

. . . . on (transition). Maintain 13000. Expect filed altitude 10 minutes after departure.

DAGGETT TRANSITION (VVERA2.DAG)
HECTOR TRANSITION (VVERA2.HEC)

AL-67 (FAA)

RNAV (GPS) RWY 6

CALIFORNIA CITY MUNI (L71)

APP CRS	Rwy Idg	6027
047°	TDZE	2454
	Apt Elev	2454

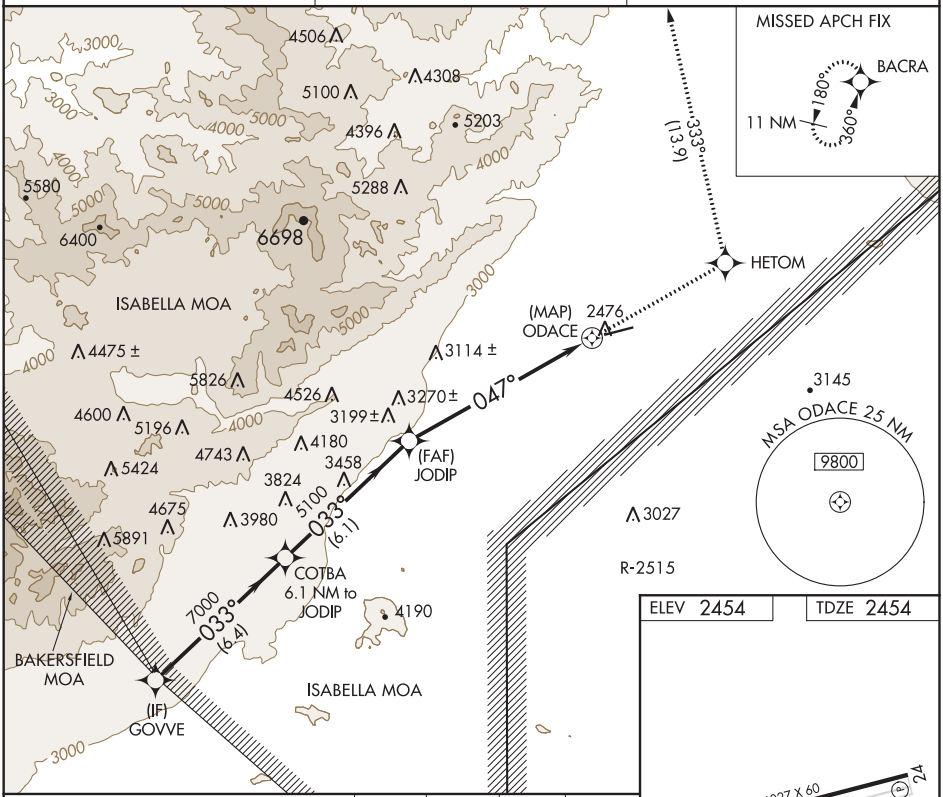
RNP APCH.

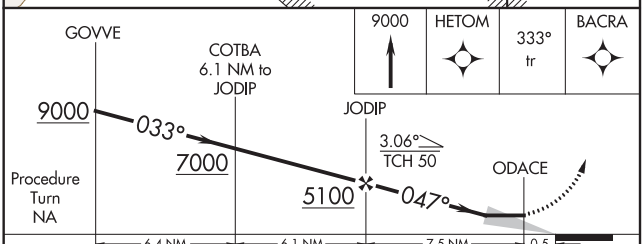
RADAR required.

V A NA If local altimeter setting not received, use Edwards AFB altimeter setting and increase all MDAs 60 feet; if neither received, procedure not authorized.

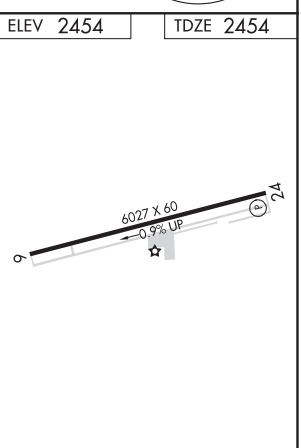
MISSED APPROACH: Climb to 9000 direct HETOM and via 333° track to BACRA and hold, continue climb-in-hold to 9000.

AWOS-1	JOSHUA APP CON	UNICOM
120.875	133.65 348.7	122.7 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	3660-1¼ 1206 (1300-1¼)	3660-1½ 1206 (1300-1½)	3660-3 1206 (1300-3)	NA



MIRL Rwy 6-24 L

REIL Rwy 24 L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

CALIFORNIA CITY, CALIFORNIA | AL-9440 (FAA) | 19115

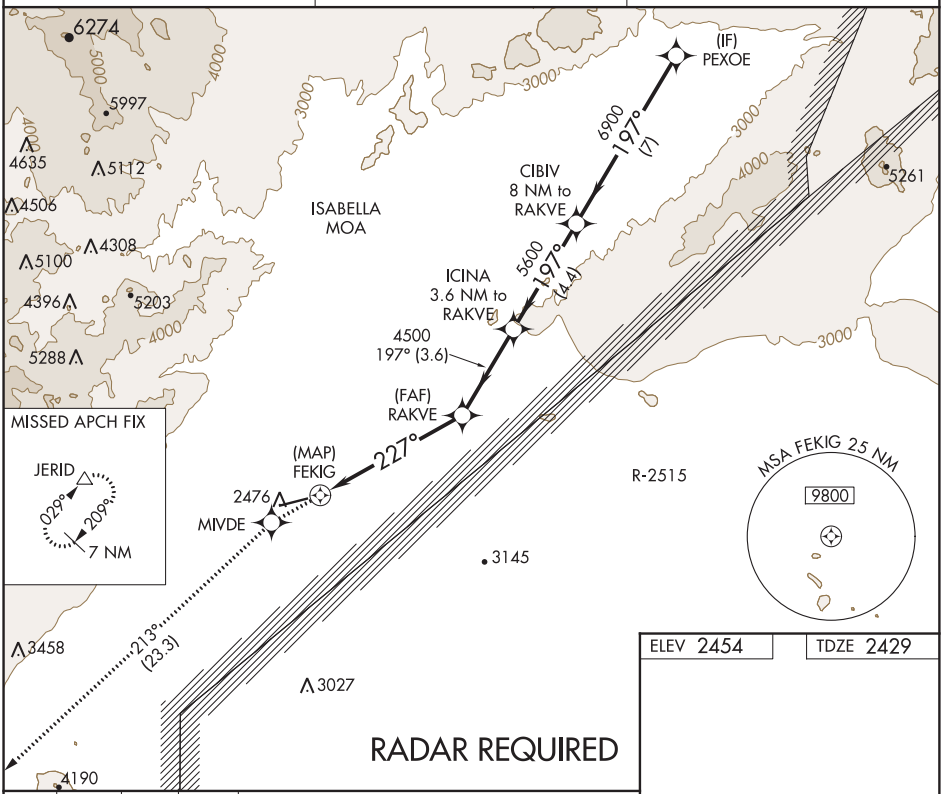
RNAV (GPS) RWY 24
CALIFORNIA CITY MUNI (L71)

APP CRS	Rwy Idg	TDZE	Apt Elev
227°	6027	2429	2454

T NA — DME/DME RNP -0.3 NA. If local altimeter setting not received, use Edwards AFB altimeter setting and increase all MDAs 60 feet; if neither received, procedure not authorized.

MISSED APPROACH: Climb to 9000 direct MIVDE and via 213° track to JERID and hold, continue climb-in-hold to 9000.

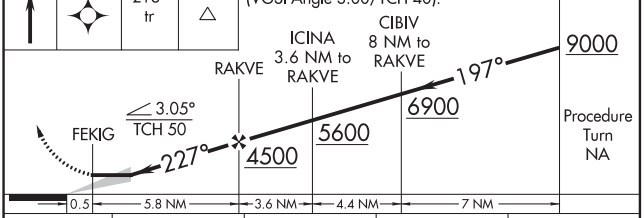
AWOS-1	JOSHUA APP CON	UNICOM
120.875	133.65 348.7	122.7 (CTAF) L

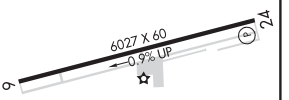


ELEV 2454 | TDZE 2429

9000	MIVDE	213° tr	JERID

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 40).





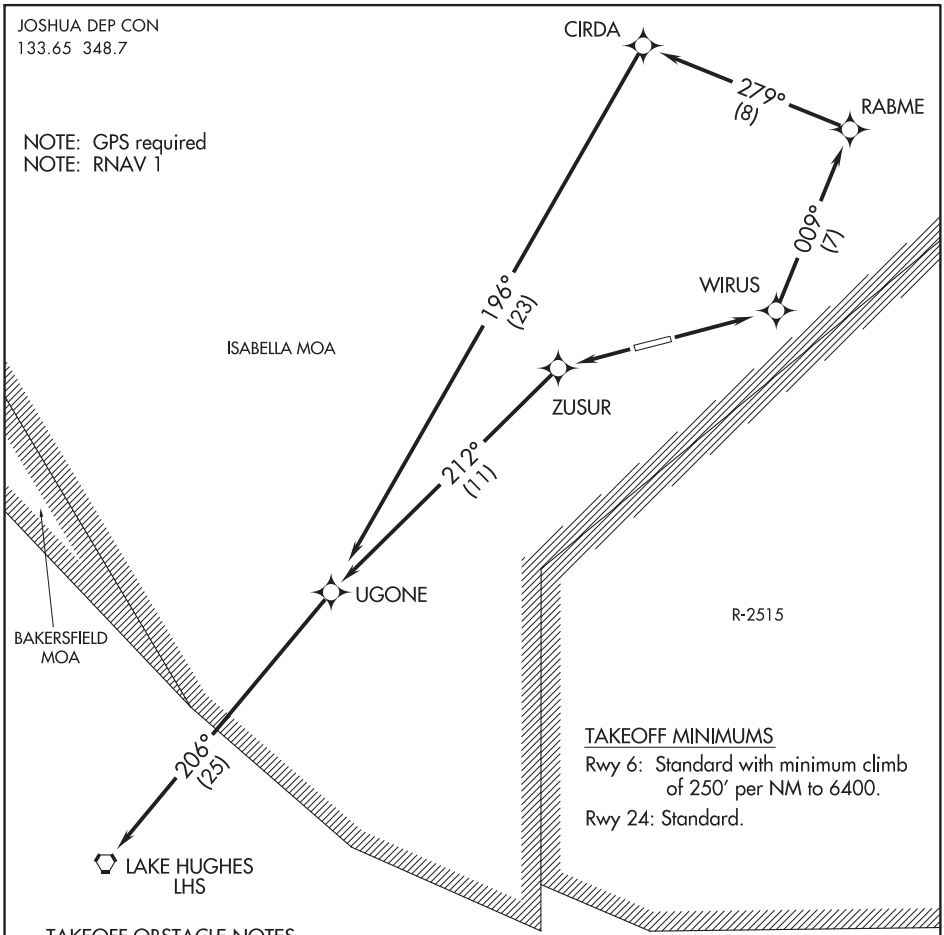
CATEGORY	A	B	C	D
LNAV MDA	2820-1 391 (400-1)			NA
CIRCLING	2940-1 486 (500-1)	2960-1 506 (600-1)	3080-1¾ 626 (700-1¾)	NA

MIRL Rwy 6-24 L
REIL Rwy 24 L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

CALIFORNIA CITY ONE DEPARTURE (OBSTACLE) (RNAV) CALIFORNIA CITY, CALIFORNIA



TAKEOFF OBSTACLE NOTES

Rwy 6: Ground 37' from DER, 408' right of centerline, 0' AGL/2406' MSL.

Rwy 24: Windsock 8' from DER, 159' right of centerline, 25' AGL/2476' MSL.
Bush 220' from DER, 456' left of centerline, 9' AGL/2467' MSL.
Bush 550' from DER, 447' left of centerline, 16' AGL/2474' MSL.
Bush 365' from DER, 299' left of centerline, 8' AGL/2469' MSL.
Bush 245' from DER, 449' left of centerline, 8' AGL/2466' MSL.
Bush 422' from DER, 454' left of centerline, 12' AGL/2470' MSL.
Bush 355' from DER, 106' left of centerline, 6' AGL/2467' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6: Climb direct WIRUS, then via depicted route to LHS VORTAC. Maintain 9000.

TAKEOFF RUNWAY 24: Climb direct ZUSUR, then via depicted route to LHS VORTAC. Maintain 9000.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

CALIPATRIA, CALIFORNIA | AL-9486 (FAA) | 19283

RNAV (GPS) RWY 8

CLIFF HATFIELD MEMORIAL (CLR)

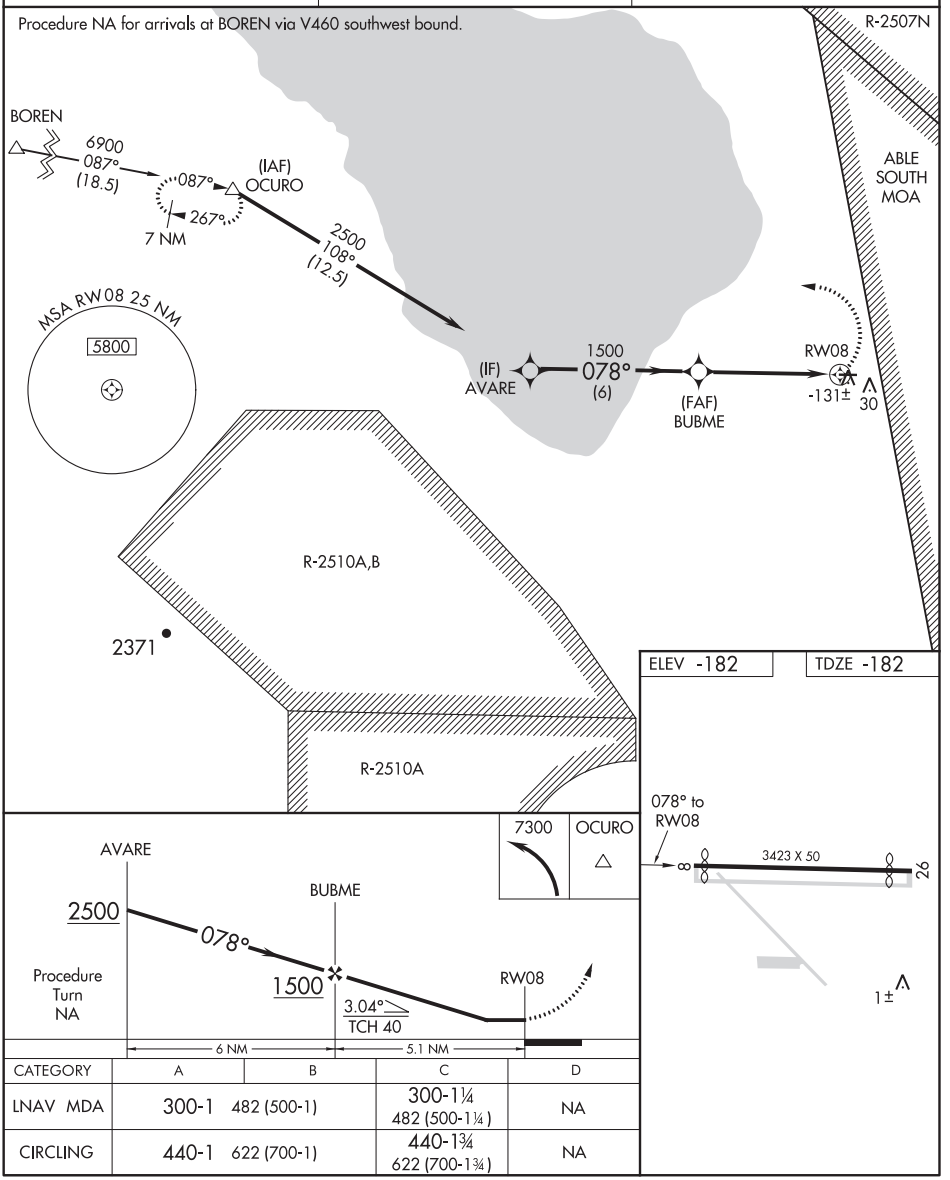
APP CRS	Rwy Idg	3303
078°	TDZE	-182
	Apt Elev	-182

DME/DME RNP-0.3 NA. Procedure NA at night.
NA Visibility reduction by helicopters NA.
Use Imperial altimeter setting, when not received, procedure NA.

MISSED APPROACH: Climbing left turn to 7300 direct OCURO and hold, continue climb-in-hold to 7300.

IPL ASOS	LOS ANGELES CENTER	CTAF
132.175	128.6 291.7	122.9

Procedure NA for arrivals at BOREN via V460 southwest bound.



CATEGORY	A	B	C	D
LNAV MDA	300-1	482 (500-1)	300-1¼ 482 (500-1¼)	NA
CIRCLING	440-1	622 (700-1)	440-1¾ 622 (700-1¾)	NA

CALIPATRIA, CALIFORNIA
Amdt 1 12MAR09

33°08'N-115°31'W

CLIFF HATFIELD MEMORIAL (CLR)

RNAV (GPS) RWY 8

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 8

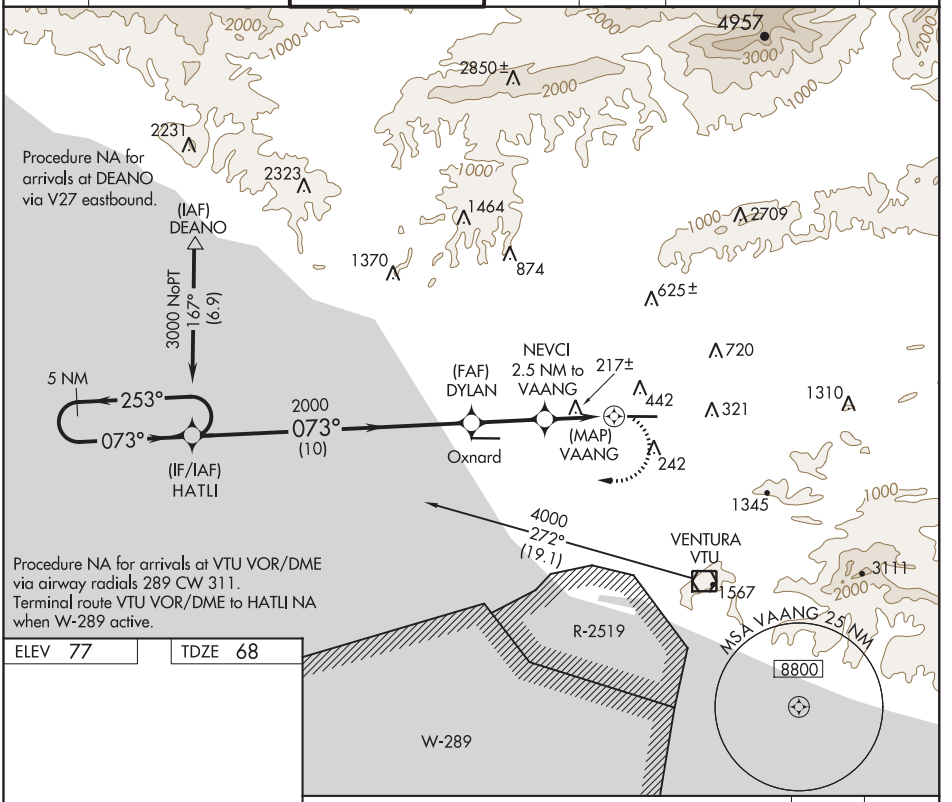
CAMARILLO (CMA)

APP CRS	Rwy Idg	6013
073°	TDZE	68
	Apt Elev	77

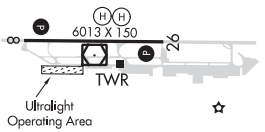
Circling NA north of Rwy 8-26. DME/DME RNP-0.3 NA.
When local altimeter setting not received, use Oxnard altimeter setting and increase all MDA 20 feet.

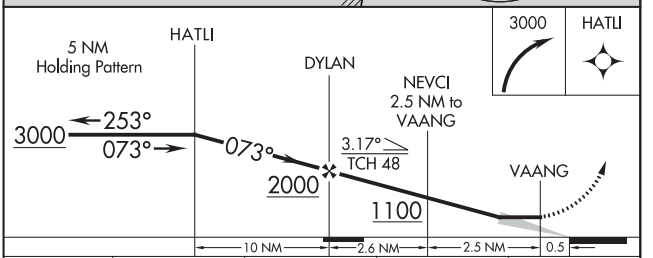
MISSED APPROACH: Climbing right turn to 3000 direct HATLI and hold.

ATIS	POINT MUGU APP CON ★	CAMARILLO TOWER ★	GND CON	CLNC DEL	POINT MUGU CLNC DEL	UNICOM
126.025	124.7 335.5	128.2 (CTAF) L 269.4	121.8	121.8	120.75 279.55	122.95



ELEV 77	TDZE 68





CATEGORY	A	B	C	D
LNAV MDA	840-1 772 (800-1)	840-1¼ 772 (800-1¼)	840-2½	772 (800-2½)
CIRCLING	840-1 763 (800-1)	840-1¼ 763 (800-1¼)	840-2½	763 (800-2½)

REIL Rwys 8 and 26 L
MIRL Rwy 8-26 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

CAMARILLO, CALIFORNIA | AL-680 (FAA) | 20310

RNAV (GPS) Y RWY 26

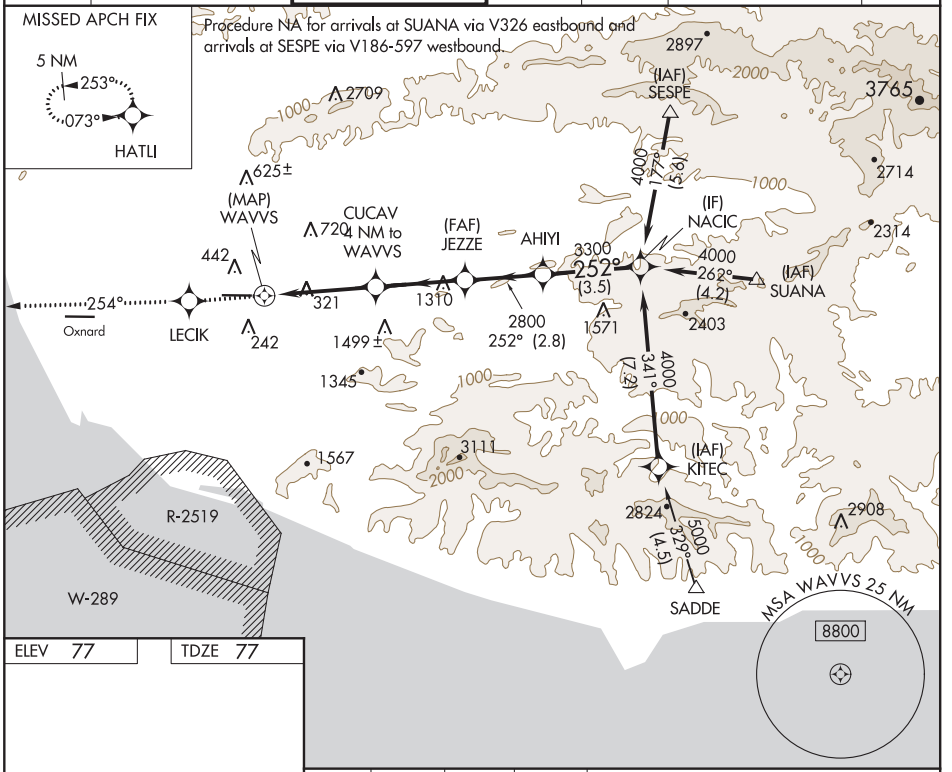
CAMARILLO (CMA)

APP CRS	Rwy Idg	6013
252°	TDZE	77
	Apt Elev	77

Circling NA north of Rwy 8-26. DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Oxnard altimeter setting and increase all MDAs 20 feet. VDP NA when using Oxnard altimeter setting.

MISSED APPROACH: Climb to 3000 direct LECIK and via 254° track to HATLI and hold.

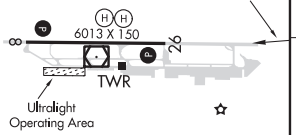
ATIS	POINT MUGU APP CON ★	CAMARILLO TOWER ★	GND CON	CLNC DEL	POINT MUGU CLNC DEL	UNICOM
126.025	124.7 335.5	128.2 (CTAF) L 269.4	121.8	121.8	120.75 279.55	122.95



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

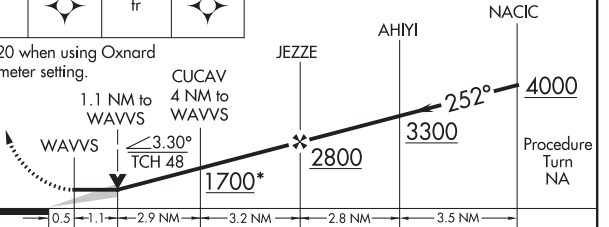
ELEV	77	TDZE	77



3000	LECIK	254° tr	HATLI

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 48).

*1720 when using Oxnard altimeter setting.



CATEGORY	A	B	C	D
LNAV MDA	620-1 543 (600-1)		620-1½ 543 (600-1½)	620-1¾ 543 (600-1¾)
CIRCLING	620-1 543 (600-1)		620-1½ 543 (600-1½)	640-2 563 (600-2)

REIL Rwys 8 and 26 L
MIRL Rwy 8-26 L

CAMARILLO, CALIFORNIA
Orig 23NOV06

34°13'N-119°06'W

CAMARILLO (CMA)

RNAV (GPS) Y RWY 26

RNAV (GPS) Z RWY 26

CAMARILLO (CMA)

WAAS	APP CRS	Rwy Idg	6013
CH 58202	257°	TDZE	77
W26A		Apt Elev	77

T NA W DME/DME RNP -0.3 NA. If local altimeter setting not received, use Oxnard altimeter setting and increase DA 18 feet.

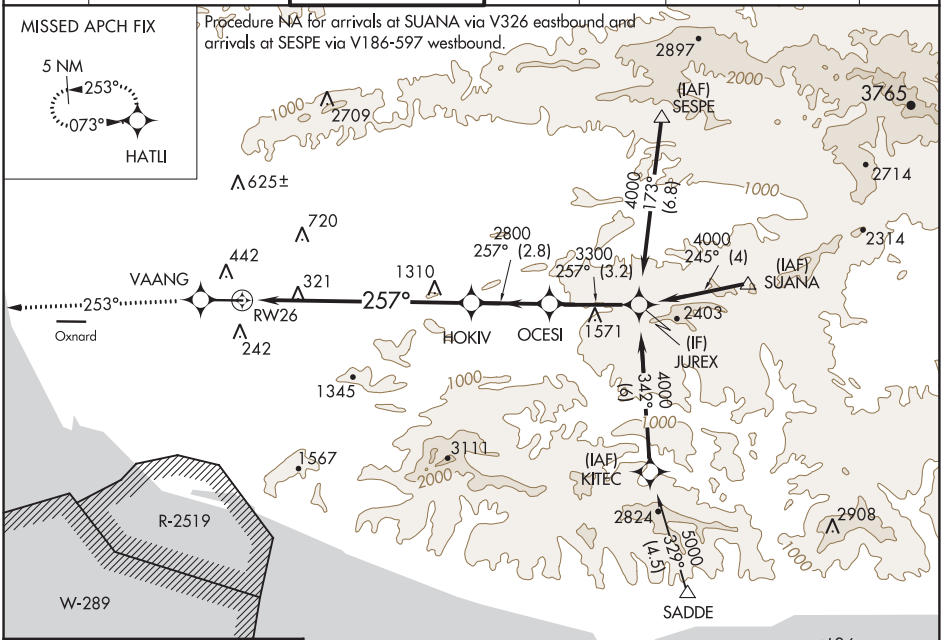
MISSED APPROACH: Climb to 3000 direct VAANG and via 253° track to HATLI and hold.

ATIS	POINT MUGU APP CON ★	CAMARILLO TOWER ★	GND CON	CLNC DEL	POINT MUGU CLNC DEL	UNICOM
126.025	124.7 335.5	128.2 (CTAF) L 269.4	121.8	121.8	120.75 279.55	122.95

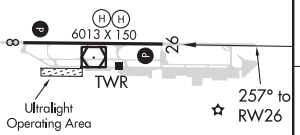
MISSED APCH FIX

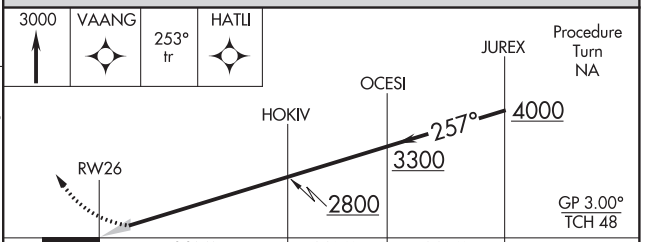
5 NM 253° 073° HATLI

Procedure NA for arrivals at SUANA via V326 eastbound and arrivals at SESPE via V186-597 westbound.



ELEV	77	TDZE	77





CATEGORY	A	B	C	D
LPV DA	327-¾ 250 (300-¾)			

REIL Rwys 8 and 26 L

MIRL Rwy 8-26 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

CAMARILLO, CALIFORNIA | AL-680 (FAA) | 20310

VOR/DME CMA 115.8 Chan 105	APP CRS 247°	Rwy Idg 6013 TDZE 77 Apt Elev 77

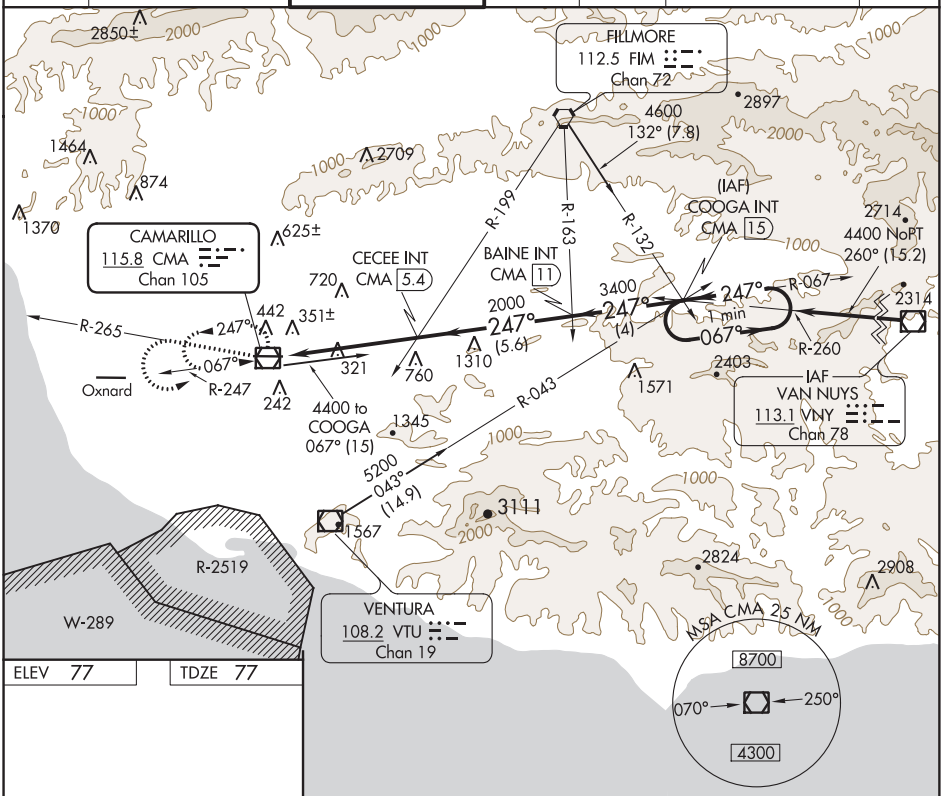
VOR RWY 26

CAMARILLO (CMA)

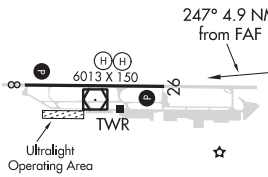
Circling not authorized north of Rwy 8/26.

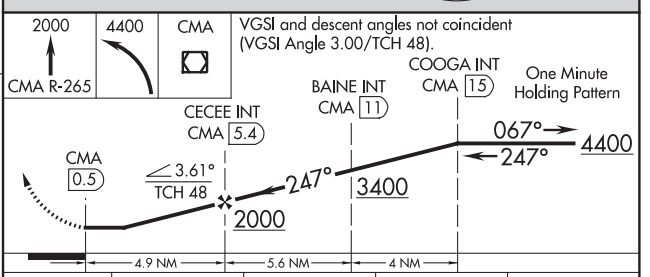
MISSED APPROACH: Climb to 2000 via CMA R-265 then climbing left turn to 4400 direct CMA VOR/DME and hold.

ATIS	POINT MUGU APP CON ★	CAMARILLO TOWER ★	GND CON	CLNC DEL	POINT MUGU CLNC DEL	UNICOM
126.025	124.7 335.5	128.2 (CTAF) L 269.4	121.8	121.8	120.75 279.55	122.95



ELEV 77	TDZE 77





MIRL Rwy 8-26 L
REIL Rwys 8 and 26 L

FAF to MAP 4.9 NM

Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

CATEGORY	A	B	C	D
S-26	1100-1¼ 1023 (1100-1¼)	1100-1½ 1023 (1100-1½)	1100-3 1023 (1100-3)	NA
C CIRCLING	1100-1¼ 1023 (1100-1¼)	1100-1½ 1023 (1100-1½)	1100-3 1023 (1100-3)	NA

CAMARILLO, CALIFORNIA
Amdt 5B 05NOV20

34°13′N-119°06′W

CAMARILLO (CMA)
VOR RWY 26

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

AL-680 (FAA)
ATIS
126.025
CAMARILLO TOWER*
128.2 269.4
GND CON
121.8
CLNC DEL
121.8
POINT MUGU CLNC DEL
120.75 279.55
RWY 08-26
S-50, D-80, 2S-102, 2D-125
6013 X 150
078.5°
258.5°
ELEV
63
FIELD
ELEV
77
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
VAR 12.1° E
TWR
HANGAR
HANGAR
Ultra-Light
Operating Area
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
34°13.0'N
34°12.5'N
119°06.0'W
119°05.5'W
119°05.0'W
119°04.5'W
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

19003

OCEANSIDE, CALIFORNIA

RNAV (GPS) RWY 21

AL-5985 (USN)

CAMP PENDLETON MCAS (MUNN FLD) (KNFG)

APCH CRS	Rwy ldg	6006
211°	TDZE	78
	Arpt Elev	78

* When ALS inop, increase CAT A vis to 1 mile, CAT B vis to 1 1/4 miles, CAT CD vis to 2 1/2 miles.
** Circling Rwy 3 not authorized at night when VGSI inop.

SALS (A2)

MISSED APPROACH: Climb to 2000 direct AMFIB and hold.

ATIS★	SOCAL APP CON/DEP CON	TOWER★	GND CON	CLNC DEL	ASR/PAR
285.45	127.3 323.0	128.775 340.2	134.675 360.2	134.675 271.6	

DME/DME RNP-0.3 N/A

Helicopter visibility reduction below 3/4 SM not authorized.

4 NM 027° 230K 207° Holding alt 5000

(IAF/IF) AECIA

3000 (6.3)

1712

2343

2400 206° (3.1) JEMIS

3000

4308

1000

809 970

(FAF) JEMOD

211°

CARVI

1096

542

672 577

RW21

028° (20.8) 5000 OCN to AECIA

OCEANSIDE OCN

Max holding alt 5000
Min holding alt 2000

4 NM 212° 230K 032° AMFIB

MSA RW21 25 NM

7200

5000 340° (18)

ROBNN

EMERG SAFE ALT 100 NM 13,500

2000 AMFIB

AECIA 027° 5000 207°

JEMIS 207° 3000

JEMOD 206°

CARVI 211° 2400

1.9 NM to RW21

RW21 1080

†JEMOD to RW21

† ∠3.50° TCH 52

2.7 NM 3.4 NM

ELEV 78 TDZE 78

211° to RW21

6006 x 200 -0.3% DOWN

BCN TWR 169

HIRL Rwy 3-21

CATEGORY	A	B	C	D
LNAV MDA*	840-¾ 762 (800-¾)	840-1 762 (800-1)	840-2 762 (800-2)	
C CIRCLING**	1000-1¼ 922 (1000-1¼)	1180-1½ 1102 (1200-1½)	1400-3 1322 (1400-3)	

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

OCEANSIDE, CALIFORNIA

VOR/DME or TACAN Y RWY 21

VORTAC OCN	APCH CRS	Rwy Idg	6006
115.3	206°	TDZE	78
Chan 100		Arpt Elev	78

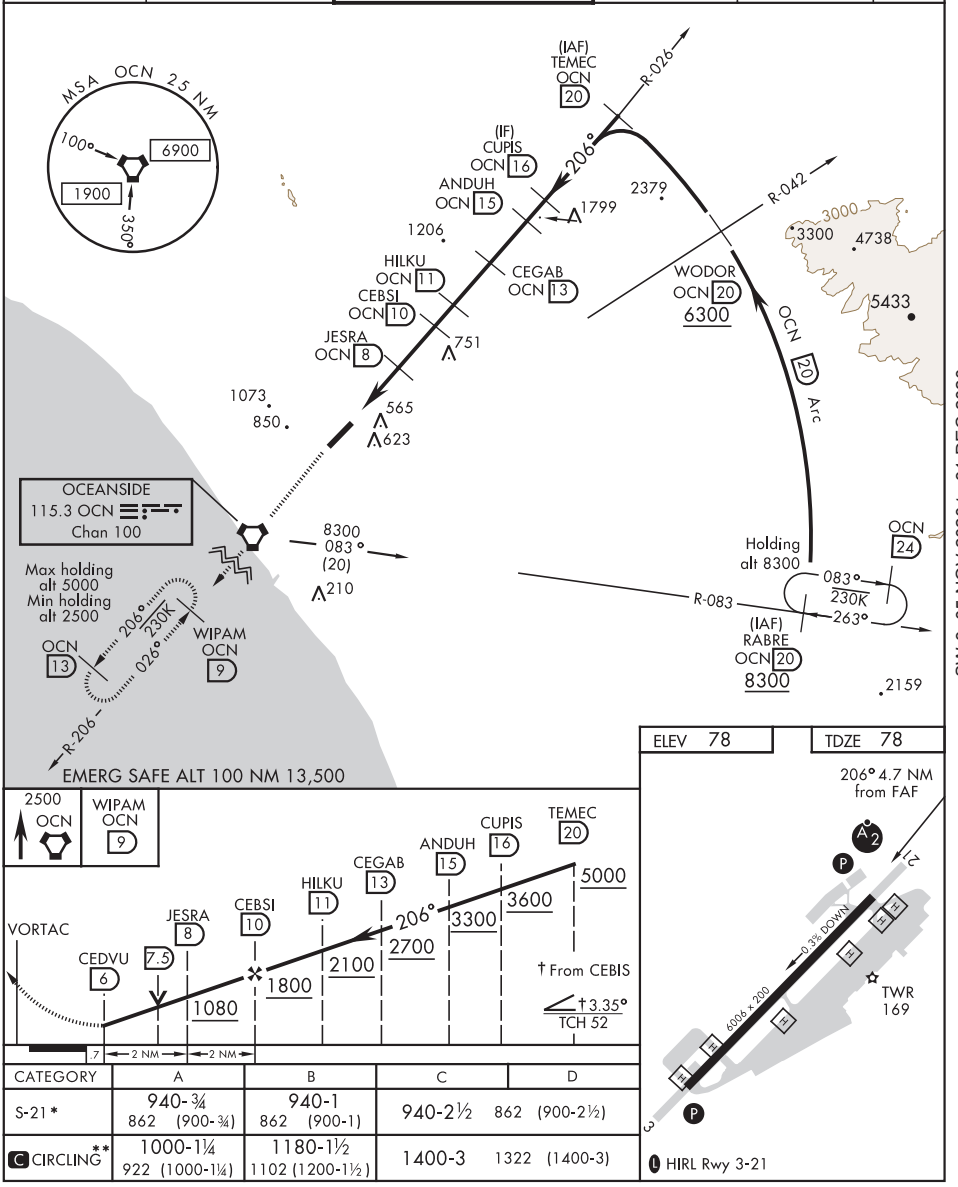
AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

T * When ALS inop, increase CAT A vis to 1 mile, CAT B vis to 1¼ mile.
** Circling Rwy 3 not authorized at night when VGSI inop.

SALSF

MISSED APPROACH: Climb to 2500 direct OCN VORTAC then direct WIPAM and hold.

ATIS ★	SOCAL APP CON	CAMP PENDLETON TOWER ★	GND CON	CLNC DEL	ASR/PAR
285.45	127.3 323.0	128.775 L 340.2	134.675 360.2	134.675 271.6	



CATEGORY	A	B	C	D
S-21 *	940-¾ 862 (900-¾)	940-1 862 (900-1)	940-2½ 862 (900-2½)	
C CIRCLING **	1000-1¼ 922 (1000-1¼)	1180-1½ 1102 (1200-1½)	1400-3 1322 (1400-3)	

OCEANSIDE, CALIFORNIA 33° 18'N-117° 21'W CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

Amdt 4 03JAN19

VOR/DME or TACAN Y RWY 21

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

OCEANSIDE, CALIFORNIA

TACAN RWY 3

VORTAC OCN	APCH CRS	Rwy Idg	6006
115.3	026°	TDZE	67
Chan 100		Arpt Elev	78

AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

Procedure not authorized at night when VGSI inop.

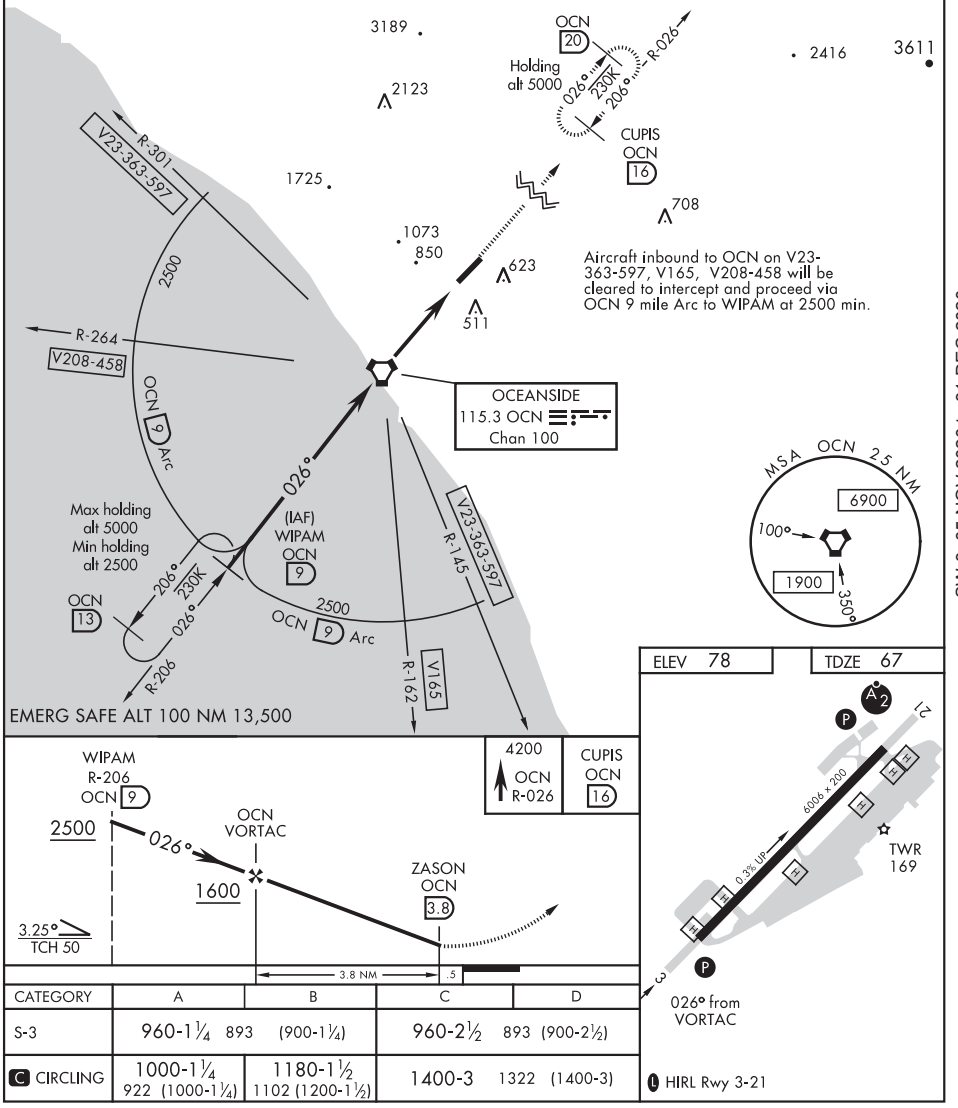
* MISSED APPROACH: Climb to 4200 and intercept the OCN VORTAC R-026 direct CUPIS and hold.

ATIS *	SOCAL APP CON	CAMP PENDLETON TOWER *	GND CON	CLNC DEL	ASR/PAR
285.45	127.3 323.0	128.775 L 340.2	134.675 360.2	134.675 271.6	

CAUTION: High terrain on final approach.

Knots	60	120	180	240	300	360
V/V(fpm)	275	550	825	1100	1375	1650

*Min climb of 275 ft/NM to 3500 - Controlling Obstacle 2778



CATEGORY	A	B	C	D
S-3	960-1¼ 893 (900-1¼)		960-2½ 893 (900-2½)	
C CIRCLING	1000-1¼ 922 (1000-1¼)	1180-1½ 1102 (1200-1½)	1400-3 1322 (1400-3)	

L HIRL Rwy 3-21

SW-3, 05 NOV 2020 to 31 DEC 2020

OCEANSIDE, CALIFORNIA

TACAN Z RWY 21

TACAN	APCH CRS	Rwy ldg	6006
NFG Chan 55	211°	TDZE	78
		Arpt Elev	78

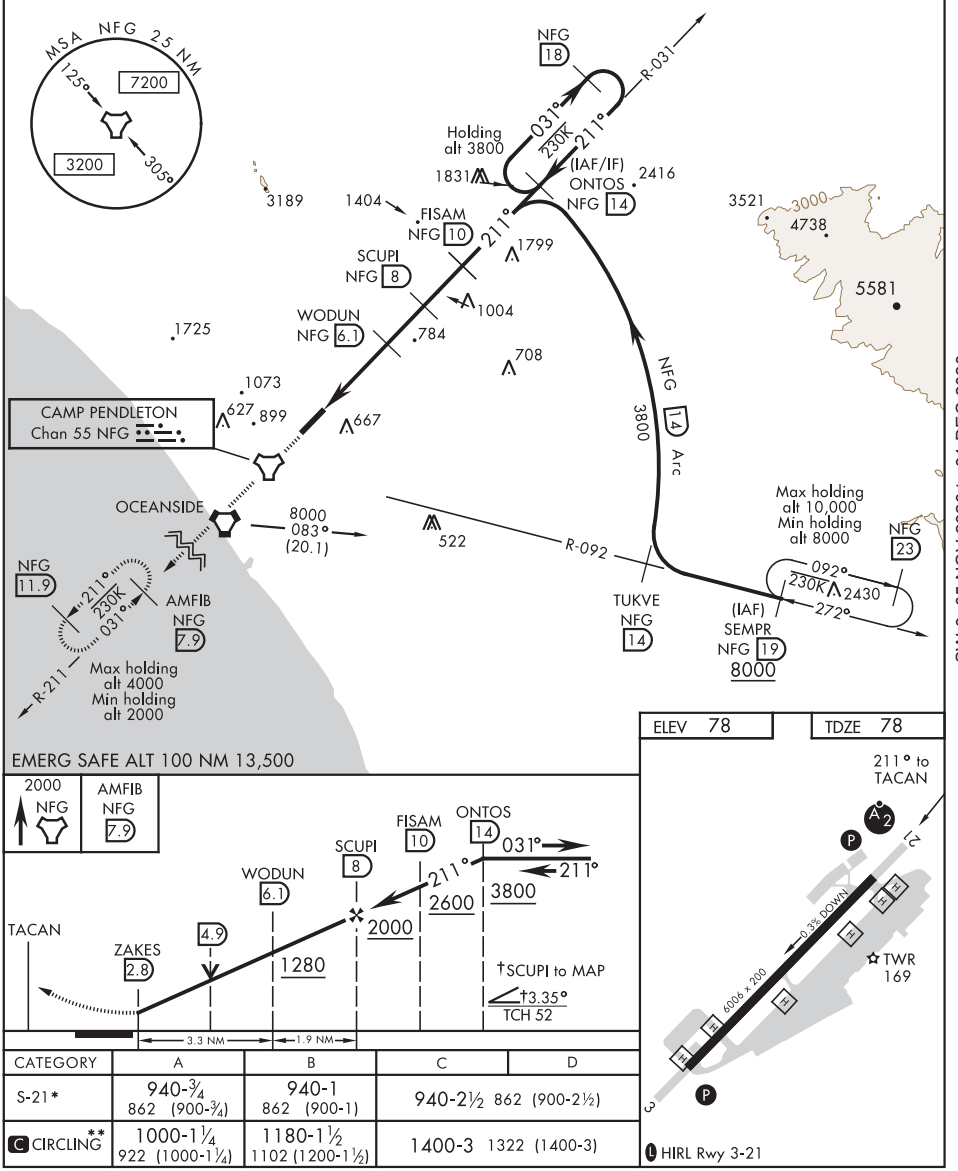
AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

* When ALS inop, increase CAT A vis to 1 mile, CAT B to 1¼ miles.
** Circling Rwy 3 not authorized at night when VGSI inop.

SALSF

MISSED APPROACH: Climb to 2000 direct NFG TACAN then direct AMFIB and hold.

ATIS ★	SOCAL APP CON	CAMP PENDLETON TOWER ★	GND CON	CLNC DEL	ASR/PAR
285.45	127.3 323.0	128.775 L 340.2	134.675 360.2	134.675 271.6	



CATEGORY	A	B	C	D
S-21*	940-¾ 862 (900-¾)	940-1 862 (900-1)	940-2½ 862 (900-2½)	
C CIRCLING **	1000-1¼ 922 (1000-1¼)	1180-1½ 1102 (1200-1½)	1400-3 1322 (1400-3)	

OCEANSIDE, CALIFORNIA

33° 18'N-117° 21'W CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

Amdt 5 28MAR19

TACAN Z RWY 21

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

OCEANSIDE, CALIFORNIA

COPTER TACAN RWY 21

TACAN	APCH CRS	Rwy ldg	6006
NFG Chan 55	211°	TDZE	78
		Arpt Elev	78

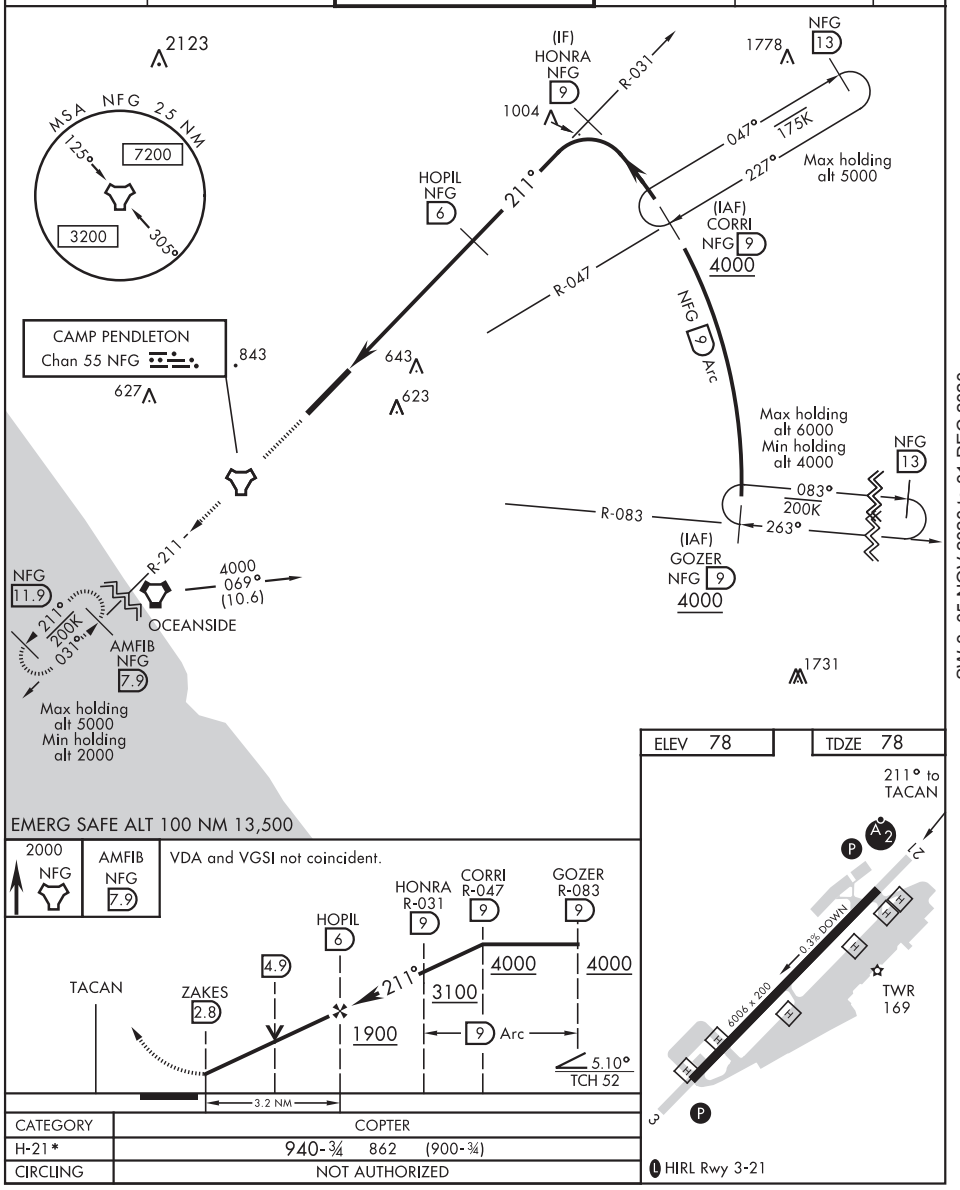
AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

* When ALS inop, increase vis to 1 mile.

SALSF

MISSED APPROACH: Climb to 2000 direct NFG TACAN then direct AMFIB and hold.

ATIS ★	SOCAL APP CON	CAMP PENDLETON TOWER ★	GND CON	CLNC DEL	ASR/PAR
285.45	127.3 323.0	128.775 (L) 340.2	134.675 360.2	134.675 271.6	



2000 NFG	AMFIB NFG 7.9

VDA and VGSI not coincident.

CATEGORY	COPTER
H-21*	940-¾ 862 (900-¾)
CIRCLING	NOT AUTHORIZED

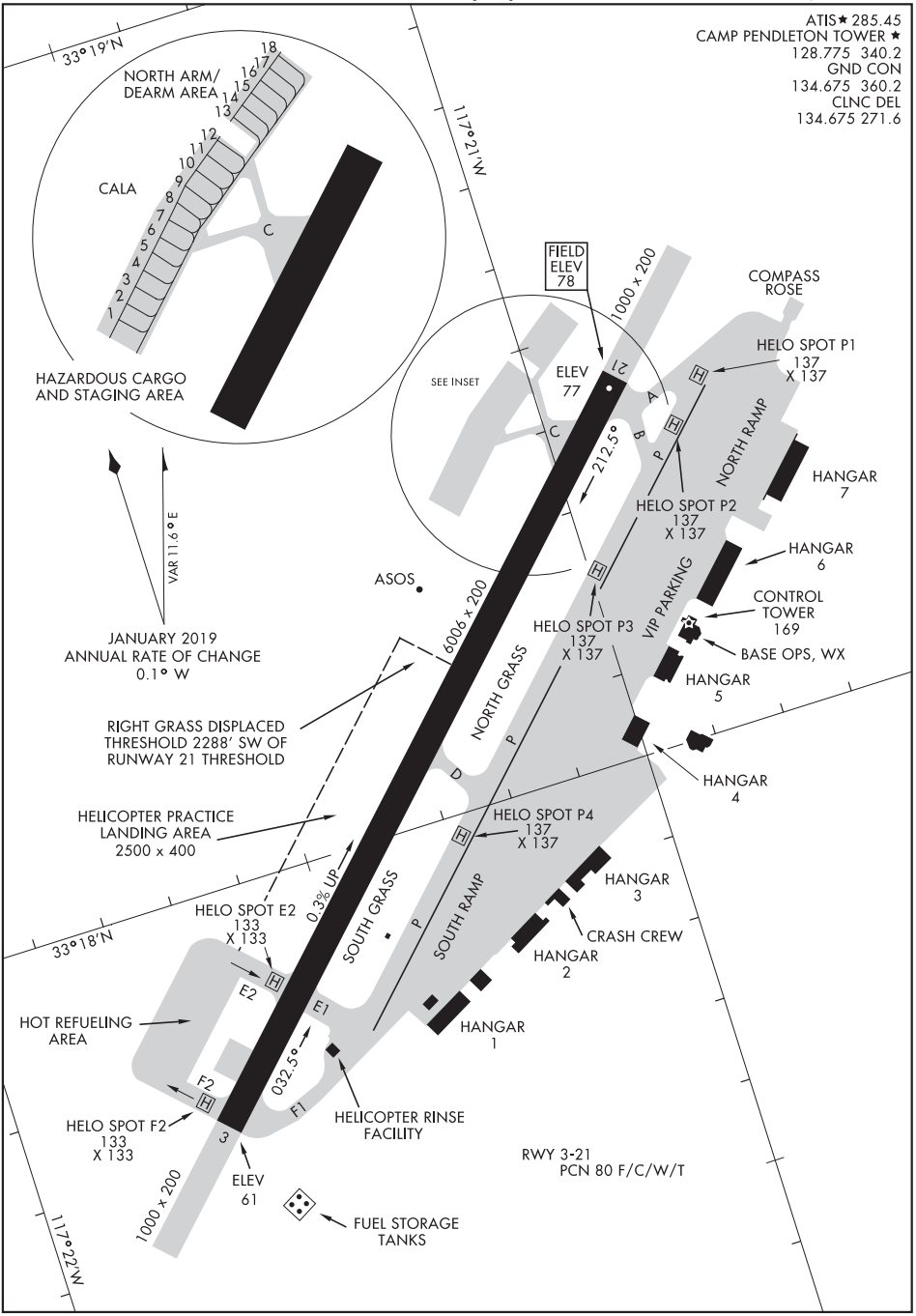
OCEANSIDE, CALIFORNIA

33°18'N-117°21'W CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

Amdt 4 03JAN19

COPTER TACAN RWY 21

SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

19003

CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

BEACH EIGHT DEPARTURE (OBSTACLE) (BEACH8•OCN)

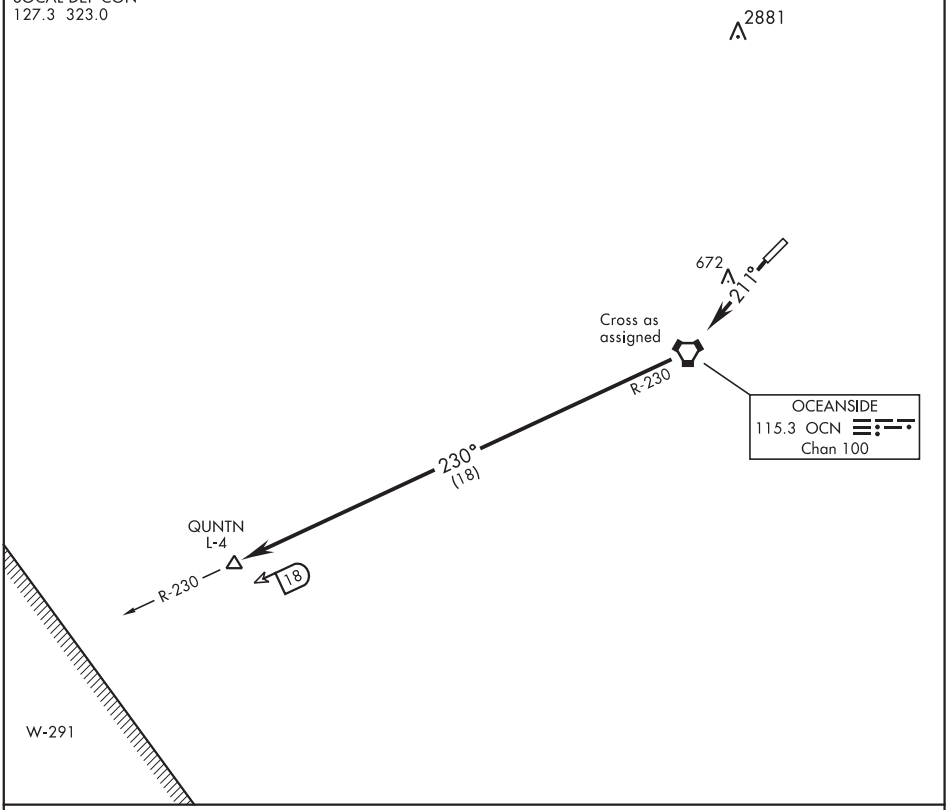
OCEANSIDE, CALIFORNIA

ATIS ★285.45
CLNC DEL
134.675 271.6
GND CON
134.675 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

Rwy	Knots	60	120	180	240	300	360
21	V/V(fpm)	482	964	1446	1928	2410	2892

Minimum Climb Rate to 900



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 21: Climb on heading 211° to 900. Cross OCN VORTAC at assigned altitude, then direct QUNTN.

CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

BULLDOG ONE DEPARTURE (OBSTACLE) (BLDG 1 • VISTA)

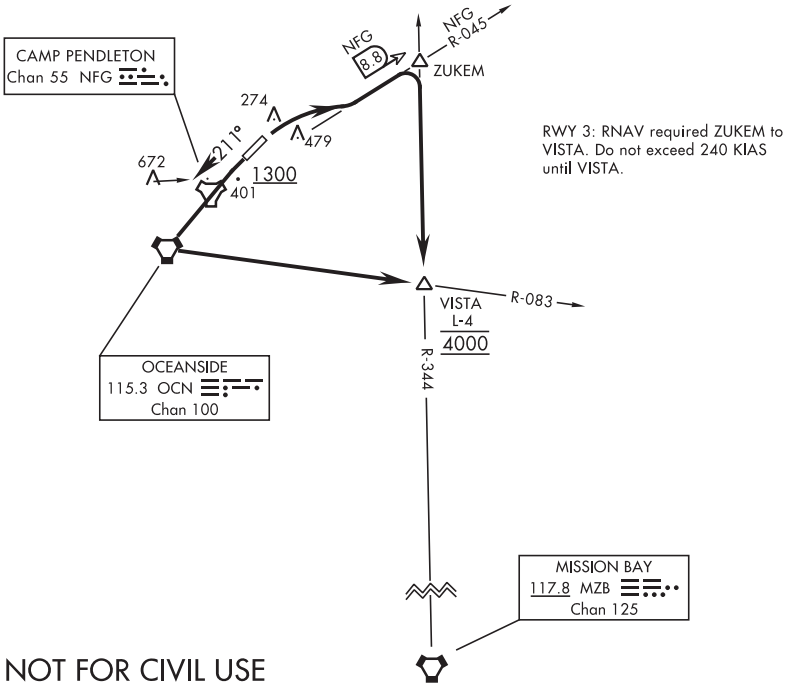
OCEANSIDE, CALIFORNIA

ATIS ★285.45
CLNC DEL
134.675 271.6
GND CON
134.675 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

Rwy	Knots	60	120	180	240	300	360
3 ⓐ	V/V(fpm)	479	958	1437	1916	2395	2874
21 ⓑ	V/V(fpm)	482	964	1446	1928	2410	2892

Minimum Climb Rate
ⓐ to 800
ⓑ to 1300



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climbing right turn to intercept NFG TACAN R-045 to ZUKEM then right turn direct VISTA. Cross VISTA at 4000 or assigned altitude.

TAKE-OFF RWY 21: Climb on heading 211° to 1300 then climb direct OCN VORTAC, then left turn to intercept OCN R-083 direct VISTA. Cross VISTA at 4000 or assigned altitude.

BULLDOG ONE DEPARTURE (OBSTACLE) (BLDG 1 • VISTA)

OCEANSIDE, CALIFORNIA

CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

19003

CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

CORRI TWO DEPARTURE (OBSTACLE) (CORRI2•CORRI)

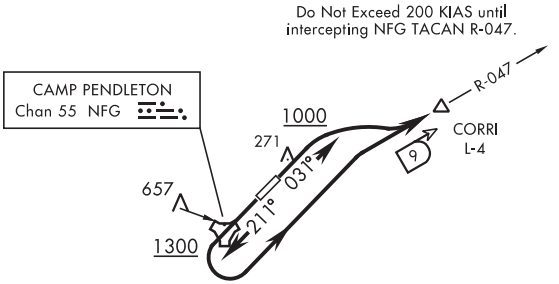
OCEANSIDE, CALIFORNIA

ATIS ★285.45
CLNC DEL
134.675 271.6
GND CON
134.675 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

Rwy	Knots	60	120	180	240	300	360
3	V/V(fpm)	358	716	1074	1432	1790	2148
21	V/V(fpm)	446	892	1338	1784	2230	2676

Minimum Climb Rate to 1000



RADAR REQUIRED
NOT FOR CIVIL USE
NOT FOR USE BY CAT D/E AIRCRAFT

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb on heading 031° to 1000 then climbing right turn to 3800 and intercept NFG TACAN R-047 to CORRI.

TAKE-OFF RWY 21: Climb on heading 211° to 1300 then climbing left turn to 3800 and intercept NFG TACAN R-047 to CORRI.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

MUNN TWO DEPARTURE (OBSTACLE) (MUNN 2• ROBNN)

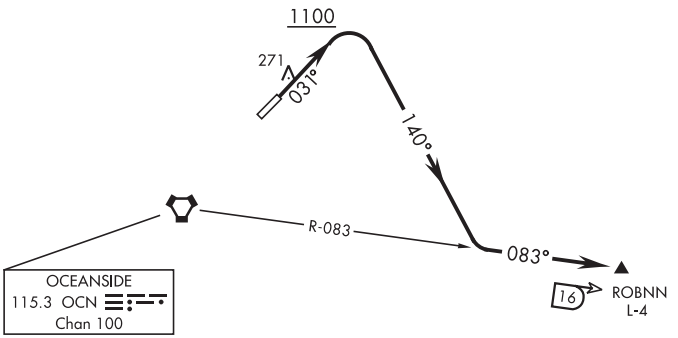
OCEANSIDE, CALIFORNIA

ATIS ★285.45
CLNC DEL
134.675 271.6
GND CON
134.675 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

Rwy	Knots	60	120	180	240	300	360
3	V/V(fpm)	358	716	1074	1432	1790	2148

Minimum Climb Rate to 1000



SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb on heading 031° to 1100 then climbing right turn heading 140° to intercept OCN VORTAC R-083 to ROBNN.
Cross ROBNN at 5000 or as directed by ATC.

CARLSBAD, CALIFORNIA | AL-5310 (FAA) | 19115

LOC/DME I-CRQ	APP CRS	Rwy Idg	4897
108.7	245°	TDZE	326
Chan 24		Apt Elev	331

ILS or LOC RWY 24

MC CLELLAN-PALOMAR (CRQ)

Inop table does not apply to S-ILS Rwy 24.
Autopilot coupled approach NA below 960. DME required.
Rwy 24 helicopter visibility reduction below RVR 4000 NA. For inop ALS, increase S-LOC 24 Cat A/B visibility to RVR 5500 and Cat C visibility to 1⅞ SM.

MALSR

MISSED APPROACH: Climb to 3000 on heading 245° and on OCN VORTAC R-145 to OCN VORTAC and hold.

ATIS	SOCAL APP CON	PALOMAR TOWER*	GND CON	CLNC DEL
120.15	127.3 323.0	118.6 (CTAF) L 276.4	121.8	134.85

OCEANSIDE
115.3 OCN
Chan 100

4500
083°
(17.6)
R-083
R-145

(IAF)
HOMLY INT
OCN 17.6

1752
1685
3300
183° (2.5)

HUSET
I-CRQ 4.2

WUNUB
I-CRQ 8

720±
R-258
712
731±
481
482
1378±
1736•
2600
245°
(2.4)
3300
258°
(3)
2440
065°
4300
258°
(4)
5200
258°
(3.9)
7100
258°
(14.3)
4051
3886
4555
5438
5710
2160

CIDRU
I-CRQ 6.5
2300
245° (1.5)

(IF)
ESCON INT
I-CRQ 10.4

ZANIG INT
JLI 22.2

RECCO INT
/JLI 18.2

GENTA INT
JLI 14.3

R-002
R-009
R-017
R-024

IAF
JULIAN
114.0 JLI
Chan 87

LOCALIZER 108.7
I-CRQ
Chan 24

117.8 MZB
Chan 125

1609±
2140
2976
2696
2000
1000

MSA OCN 25 NM
7000
2100
070°
340°

3675

ELEV 331 | D | TDZE 326

4897 X 150
24
TWR
245° 5.7 NM from FAF

3000
hdg 245°
OCN
R-145
OCN

*LOC only
*I-CRQ 2.7
I-CRQ 0.9
HUSET I-CRQ 4.2
CIDRU I-CRQ 6.5
2300
1640*
WUNUB I-CRQ 8
ESCON INT I-CRQ 10.4
245°
2600
3300
GS 3.20°
TCH 55

1.8 NM | 1.5 NM | 2.4 NM | 1.5 NM | 2.4 NM

CATEGORY	A	B	C	D
S-ILS 24	527/40 201 (200-¾)		576/40 250 (300-¾)	NA
S-LOC 24	1000/40 674 (700-¾)		1000-1½ 674 (700-1½)	NA
C CIRCLING	1000-1 669 (700-1)	1020-1 689 (700-1)	1260-2¾ 929 (1000-2¾)	NA

REIL Rwy 24 L
HIRL Rwy 6-24 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	4600
065°	TDZE	331
	Apt Elev	331

RNAV (RNP) Z RWY 6

MC CLELLAN-PALOMAR (CRQ)

T For uncompensated Baro-VNAV systems, procedure NA below 4°C (40°F) or above 54°C (130°F). GPS required.

MISSED APPROACH: Climbing right turn to 3000 direct TIZIE and hold, continue climb-in-hold to 3000.

ATIS	SOCAL APP CON	PALOMAR TOWER★	GND CON	CLNC DEL
120.15	127.3 323.0	118.6 (CTAF) L 276.4	121.8	134.85

MSA RW06 25 NM 7300

ROUTING TO DEGLE (not to scale)

9600 216° (29.8) THERMAL TRM (RF REQD)

7400 251° (25.3) (IAF) ZASOG

DEGLE

Procedure NA for arrival on TRM VORTAC airway radials 126 CW 306

(IAF) TANNR 9000 (RF REQD)

2416

4360

6000 17° (11.8)

Procedure NA for arrivals at TANNR on V186 northbound

2160

Procedure NA for arrivals at PACIF on V25-27 northwest bound and V208-458 westbound

SEE INSET FOR ROUTING TO DEGLE

PASME

5000 215° (5.1)

DEGLE

5000 240° (8.7)

1000

1752

5000 265° (9.1) 1685

ROBNN

7300 264° (26.3)

(IAF) JULIAN JLI (RF REQD)

(IAF) PACIF 7000

4400 109° (13.6)

HOLVI

3600 245° (5.5)

(IF) TRRIP 210K

1700 (9.3)

(IF) DOOGR 210K

2500 110° (6)

(FAF) SWWAG

065° (4.1)

712

720±

RW06

481

482

1378±

Procedure NA for arrival on JLI VORTAC airway radials 174 CW 354

FLEEE

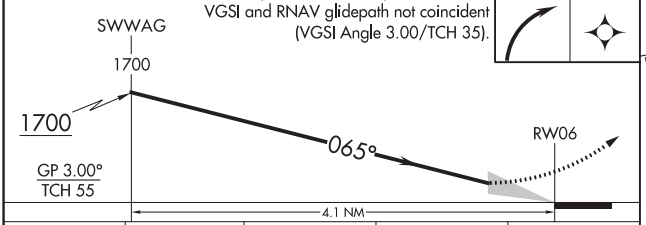
1700 065° (2.9)

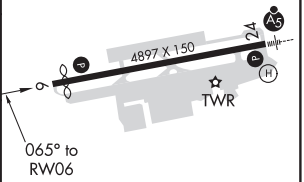
4 NM 245° 065° TIZIE

ELEV	331	D	TDZE	331

See planview for multiple IF locations. VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 35).

3000	TIZIE





CATEGORY	A	B	C	D
RNP 0.30 DA		810-1⅝	479 (500-1⅝)	

AUTHORIZATION REQUIRED

REIL Rwy 24 L
HIRL Rwy 6-24 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

CARLSBAD, CALIFORNIA | AL-5310 (FAA) | 19115

RNAV (RNP) Z RWY 24

MC CLELLAN-PALOMAR (CRQ)

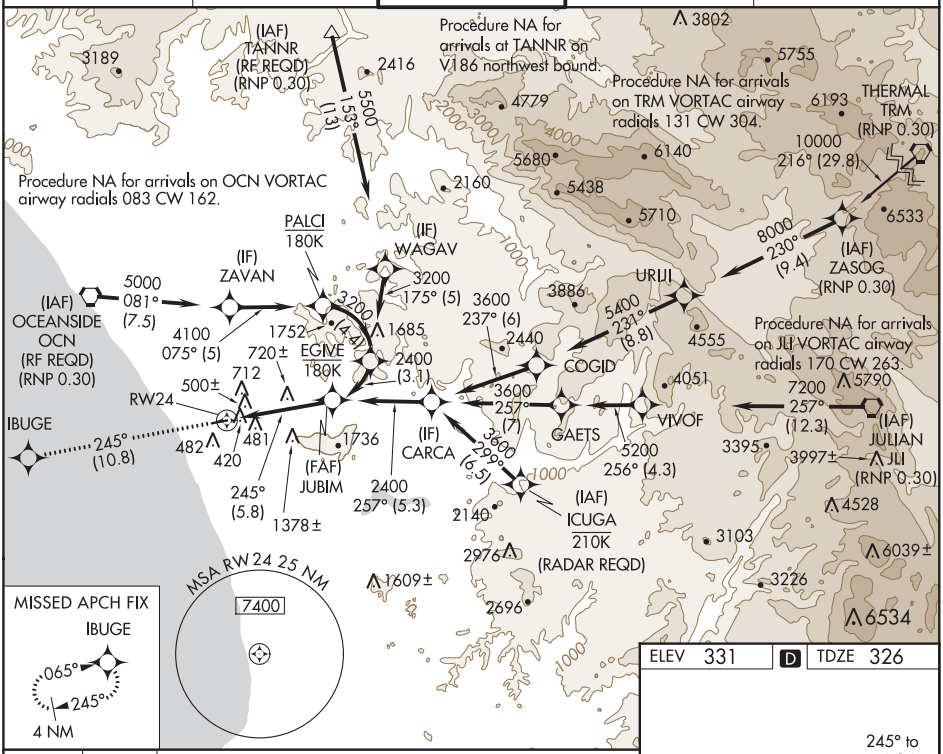
APP CRS	Rwy Idg	TDZE	Apt Elev
245°	4897	326	331

For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 54°C (130°F). For inoperative MALSR, increase RNP 0.10 visibility to RVR 6000 all Cats, RNP 0.30 visibility to 1⅝ all Cats. GPS required.

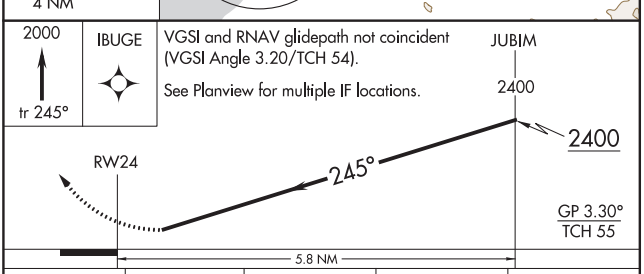
MALSR

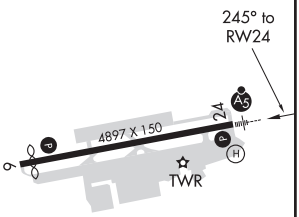
MISSED APPROACH: Climb to 2000 on track 245° to IBUGE and hold.

ATIS	SOCAL APP CON	PALOMAR TOWER★	GND CON	CLNC DEL
120.15	127.3 323.0	118.6 (CTAF) L 276.4	121.8	134.85



ELEV 331 D TDZE 326





CATEGORY	A	B	C	D
RNP 0.10 DA	810/50	484 (500-1)		NA
RNP 0.30 DA	931-1⅜	605 (600-1⅜)		NA

AUTHORIZATION REQUIRED

REIL Rwy 24 L
HIRL Rwy 6-24 L

CARLSBAD, CALIFORNIA
Orig-B 29MAY14

33°08′N-117°17′W

MC CLELLAN-PALOMAR (CRQ)

RNAV (RNP) Z RWY 24

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) X RWY 24

MC CLELLAN-PALOMAR (CRQ)

WAAS	APP CRS	Rwy Idg	4897
CH 45831	245°	TDZE	326
W24B		Apt Elev	331

T A 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. RF required. Rwy 24 helicopter visibility reduction below RVR 4000 NA. For inop ALS, increase LNAV/VNAV all Cats visibility to 1⅞ SM. Increase LNAV Cats A/B visibility to RVR 5500, Cat C to 1⅞ SM. Inop table does not apply to LPV.

MALSR (A5)

MISSED APPROACH: Climb to 2000 direct IBUGE and hold.

ATIS	SOCAL APP CON	PALOMAR TOWER★	GND CON	CLNC DEL
120.15	127.3 323.0	118.6 (CTAF) L 276.4	121.8	134.85

Procedure NA for arrival on OCN VORTAC airway radials 145 CW 162.

OCEANSIDE OCN

5300 084° (9.3)

(IAF) VISTA

5300 049° (10.3)

JIDOV

5300 (9.9)

3886

1752

1685

2440

FEHPY

5300 (3.8)

GUGEC 4.9 NM to RW24

(FAF) JABAL

3100 245° (5.8)

(IF) KANEC

712

720±

RW24

481

482

899±

1378±

1736

ZUXAX 2.5 NM to RW24

IBUGE

065° 245° 4 NM

2140

2976

1609±

2696

MSA RW24 25 NM 7400

ELEV 331 D TDZE 326

245° to RW24

4897 X 150

24

TWR

2000 IBUGE

* LNAV only

KANEC

JABAL

GUGEC 4.9 NM to RW24

ZUXAX 2.5 NM to RW24

*1.8 NM to RW24

RW24

3100

245° 4300

2040*

1220*

3100

GP 3.20° TCH 54

1.8 NM 0.7 2.4 NM 3.1 NM 5.8 NM

CATEGORY	A	B	C	D
LPV DA	528/40 202 (200-¾)		576/40 250 (300-¾)	NA
LNAV/VNAV DA	927-1½ 601 (600-1½)			NA
LNAV MDA	1000/40 674 (700-¾)		1000-1½ 674 (700-1½)	NA
C CIRCLING	1000-1 669 (700-1)	1020-1 689 (700-1)	1260-2¾ 929 (1000-2¾)	NA

REIL Rwy 24 L
HIRL Rwy 6-24 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

CARLSBAD, CALIFORNIA AL-5310 (FAA) 19115

RNAV (GPS) Y RWY 6

MC CLELLAN-PALOMAR (CRQ)

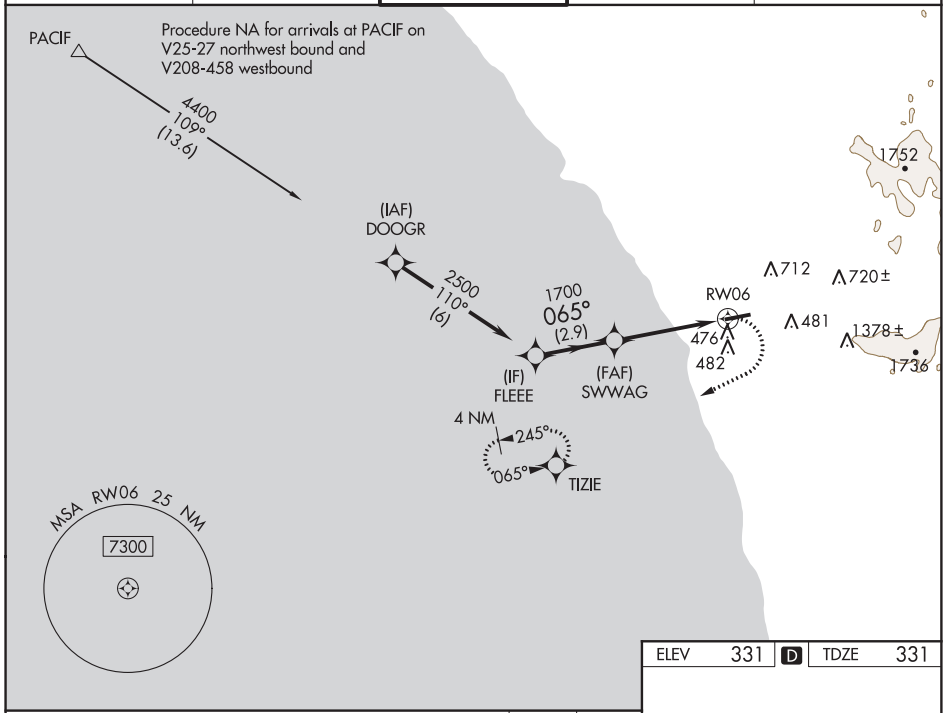
WAAS	APP CRS		
CH 40239	065°	Rwy Idg	4600
W06A		TDZE	331
		Apt Elev	331

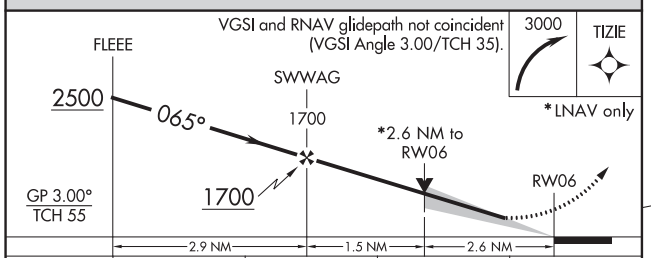
T
A

For uncompensated Baro-VNAV systems, procedure NA below 4°C (40°F) or above 54°C (130°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 3000 direct TIZIE and hold, continue climb-in-hold to 3000.

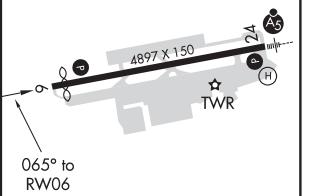
ATIS	SOCAL APP CON	PALOMAR TOWER★	GND CON	CLNC DEL
120.15	127.3 323.0	118.6 (CTAF) L 276.4	121.8	134.85





CATEGORY	A	B	C	D
LPV DA	796-1½ 465 (500-1½)			
LNAV/VNAV DA	837-1¾ 506 (600-1¾)			
LNAV MDA	1200-1 869 (900-1)	1200-1¼ 869 (900-1¼)	1200-2½ 869 (900-2½)	
C CIRCLING	1200-1¼ 869 (900-1¼)		1260-2¾ 929 (1000-2¾)	1820-3 1489 (1500-3)

ELEV 331 D TDZE 331



REIL Rwy 24 L
HIRL Rwy 6-24 L

CARLSBAD, CALIFORNIA
Orig 10NOV16

33°08′N-117°17′W

MC CLELLAN-PALOMAR (CRQ)

RNAV (GPS) Y RWY 6

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) Y RWY 24

MC CLELLAN-PALOMAR (CRQ)

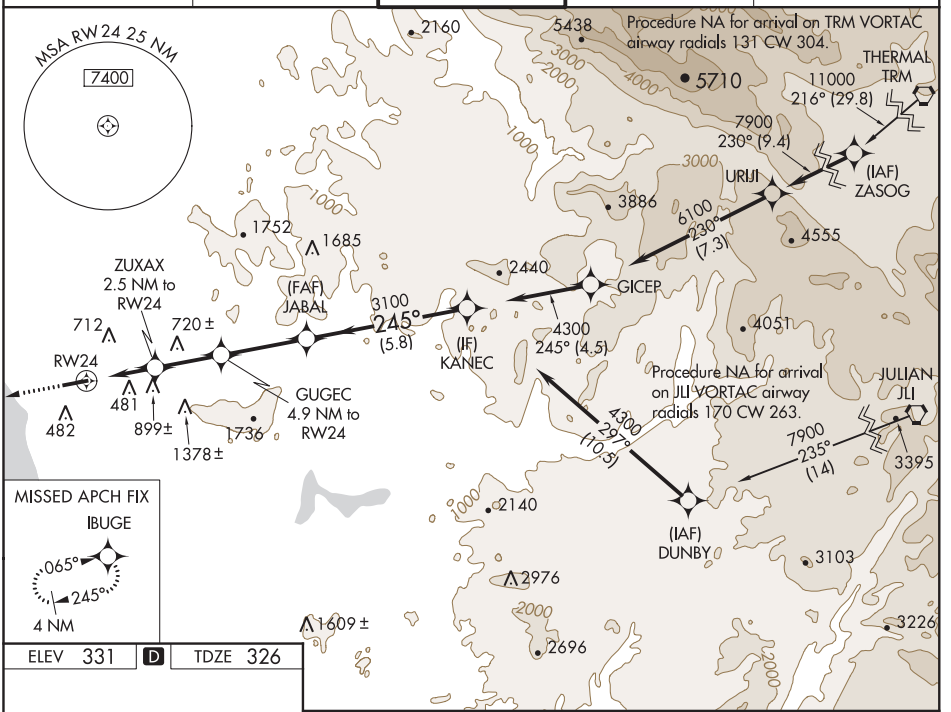
WAAS	APP CRS	Rwy Idg	4897
CH 78129	245°	TDZE	326
W24A		Apt Elev	331

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. Rwy 24 helicopter visibility reduction below RVR 4000 NA. For inop ALS, increase LNAV/VNAV all Cats visibility to 1⅞ SM, increase LNAV Cats A/B visibility to RVR 5500 Cat C to 1⅞ SM. Inop table does not apply to LPV.

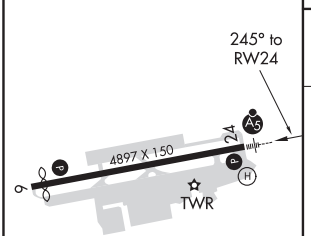
MALSR

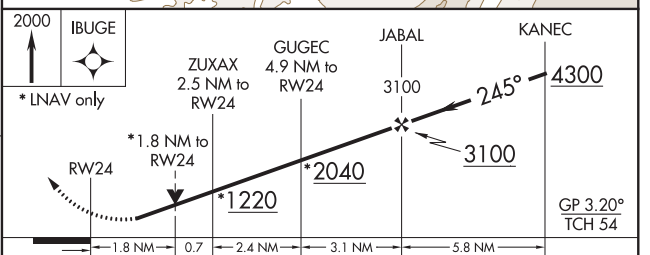
MISSED APPROACH: Climb to 2000 direct IBUGE and hold.

ATIS	SOCAL APP CON	PALOMAR TOWER★	GND CON	CLNC DEL
120.15	127.3 323.0	118.6 (CTAF) L 276.4	121.8	134.85



ELEV 331 D TDZE 326





CATEGORY	A	B	C	D
LPV DA	528/40 202 (200-¾)		576/40 250 (300-¾)	NA
LNAV/VNAV DA	927-1½ 601 (600-1½)			NA
LNAV MDA	1000/40 674 (700-¾)		1000-1½ 674 (700-1½)	NA
C CIRCLING	1000-1 669 (700-1)	1020-1 689 (700-1)	1260-2¾ 929 (1000-2¾)	NA

REIL Rwy 24 L
HIRL Rwy 6-24 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

CARLSBAD, CALIFORNIA AL-5310 (FAA) 20310

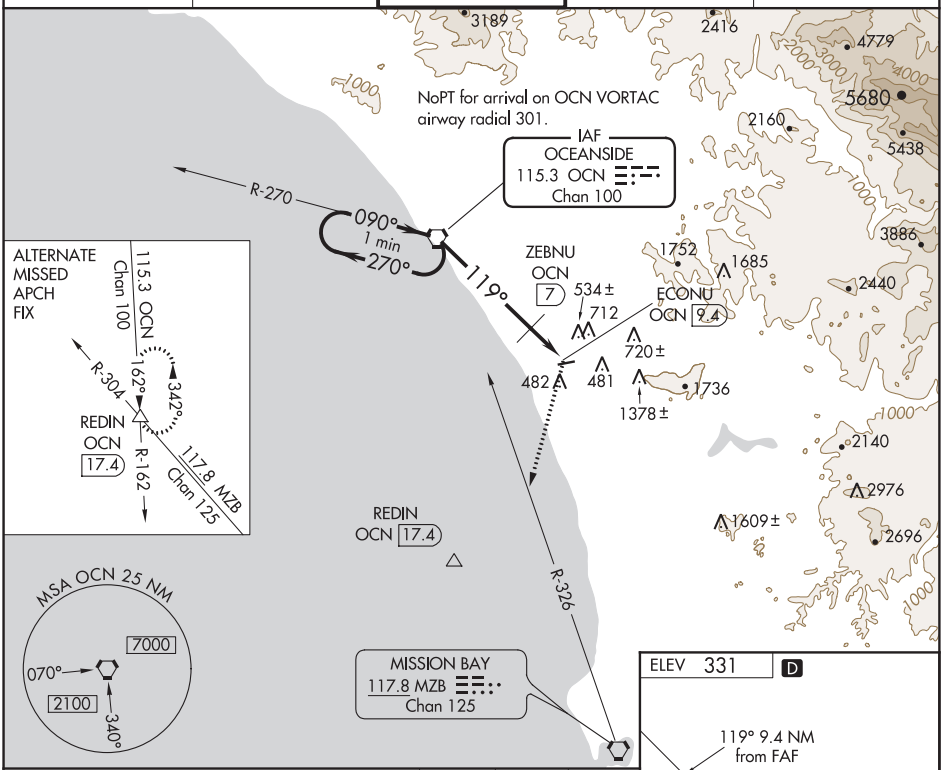
VOR-A

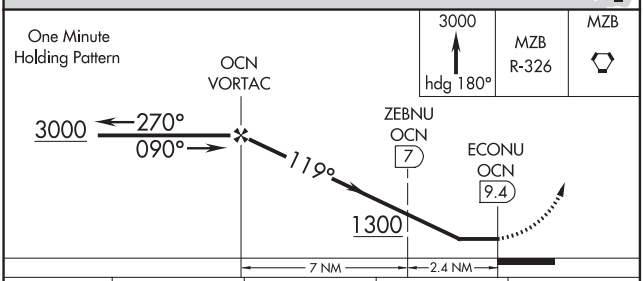
MC CLELLAN-PALOMAR (CRQ)

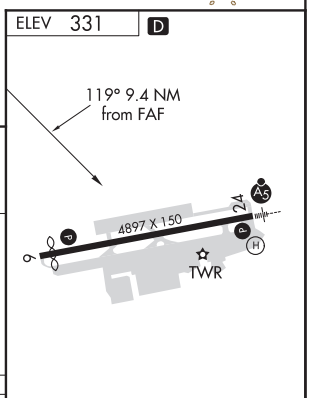
VORTAC OCN	APP CRS	Rwy ldg	N/A
115.3	119°	TDZE	N/A
Chan 100		Apt Elev	331

MISSED APPROACH: Climb to 3000 on heading 180° and on MZB R-326 to MZB VORTAC.

ATIS	SOCAL APP CON	PALOMAR TOWER★	GND CON	CLNC DEL
120.15	127.3 323.0	118.6 (CTAF) L 276.4	121.8	134.85







CATEGORY	A	B	C	D
C CIRCLING	1300-1¼ 969 (1000-1¼)	1300-1½ 969 (1000-1½)	1300-3 969 (1000-3)	NA
ZEBNU FIX MINIMUMS				
C CIRCLING	920-1 589 (600-1)	1020-1 689 (700-1)	1260-2¾ 929 (1000-2¾)	NA

REIL Rwy 24 L
HIRL Rwy 6-24 L

FAF to MAP 9.4 NM

Knots	60	90	120	150	180
Min:Sec	9:24	6:16	4:42	3:46	3:08

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

CARLSBAD, CALIFORNIA
Amdt 8A 27FEB20

33°08′N-117°17′W

MC CLELLAN-PALOMAR (CRQ)

VOR-A

SW-3, 05 NOV 2020 to 31 DEC 2020

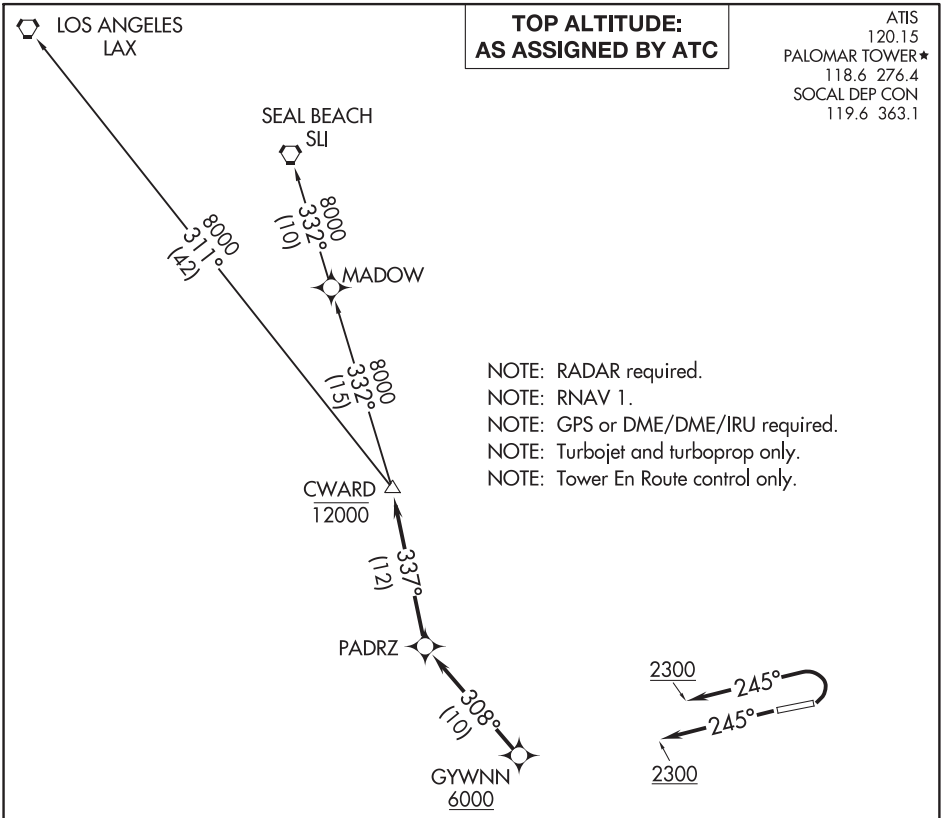
SW-3, 05 NOV 2020 to 31 DEC 2020

(CWARD2.CWARD) 17341

CWARD TWO DEPARTURE (RNAV)

AL-5310 (FAA)

MC CLELLAN-PALOMAR (CRQ)
CARLSBAD, CALIFORNIA



TAKEOFF MINIMUMS

Rwy 6: Standard with minimum climb of 255' per NM to 1700.

Rwy 24: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6: Climbing left turn heading 245° to 2300, do not exceed 210K until established on heading 245°, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

TAKEOFF RUNWAY 24: Climb heading 245° to 2300, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

. . . .on transition. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

LOS ANGELES TRANSITION (CWARD2.LAX)

SEAL BEACH TRANSITION (CWARD2.SLI)

SW-3, 05 NOV 2020 to 31 DEC 2020

PADRZ TWO DEPARTURE (RNAV)

AL-5310 (FAA)

ATIS
120.15
PALOMAR TOWER★
118.6 276.4
SOCAL DEP CON
119.6 363.1

TOP ALTITUDE: 15000

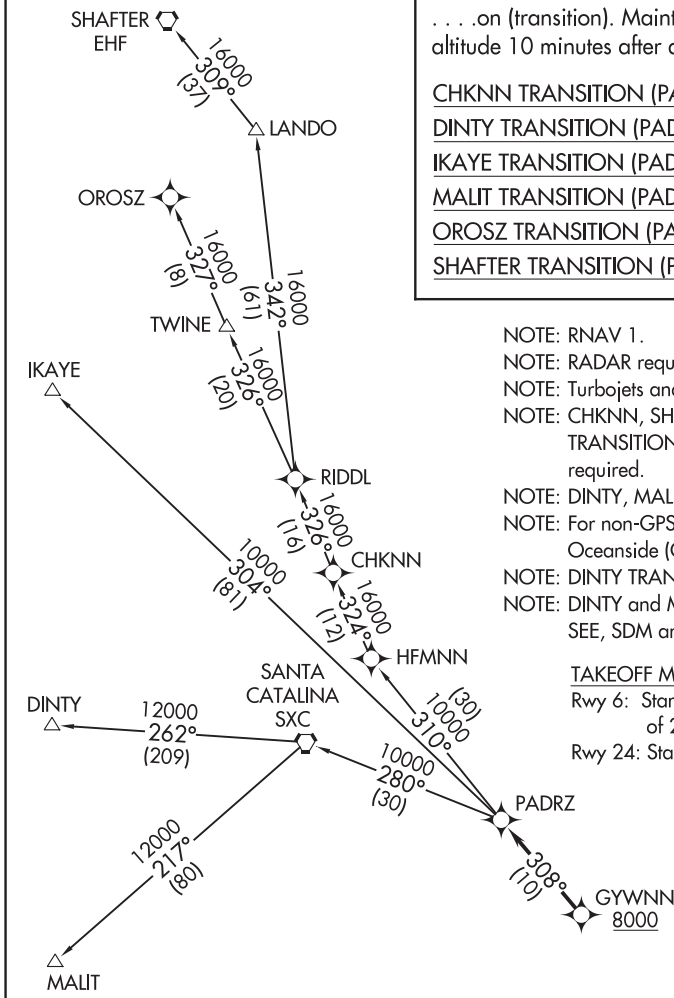
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6: Climbing left turn heading 245° to 2300, do not exceed 210K until established on heading 245°, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

TAKEOFF RUNWAY 24: Climb heading 245° to 2300, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

. . . .on (transition). Maintain 15000. Expect higher altitude 10 minutes after departure.

CHKNN TRANSITION (PADRZ2.CHKNN)
DINTY TRANSITION (PADRZ2.DINTY)
IKAYE TRANSITION (PADRZ2.IKAYE)
MALIT TRANSITION (PADRZ2.MALIT)
OROSZ TRANSITION (PADRZ2.OROSZ)
SHAFTER TRANSITION (PADRZ2.EHF)



NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: Turbojets and turboprops only.
NOTE: CHKNN, SHAFTER, IKAYE, OROSZ TRANSITIONS: DME/DME/IRU or GPS required.
NOTE: DINTY, MALIT TRANSITIONS: GPS only.
NOTE: For non-GPS equipped aircraft, Oceanside (OCN) must be operational.
NOTE: DINTY TRANSITION ATC assigned only.
NOTE: DINTY and MALIT TRANSITIONS NA from SEE, SDM and RNM airports.

TAKEOFF MINIMUMS
Rwy 6: Standard with minimum climb of 255′ per NM to 1700.
Rwy 24: Standard.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20254

RIDGECREST, CALIFORNIA

RNAV (GPS) RWY 32

APCH CRS	Rwy ldg	9013
321°	TDZE	2241
	Arpt Elev	2284

AL-914 (USN)

CHINA LAKE NAWS (ARMITAGE FLD) (KNID)

† MISSED APPROACH: Climb to 2800 then climbing left turn to 8100 direct CIBIV and hold, continue climb-in-hold to 8100.

ATIS★	JOSHUA APP CON/DEP CON	TOWER★	GND CON	CLNC DEL
322.375	133.65 348.7	120.15 340.2	360.2	274.7

RNP APCH

NOTE: Missed approach requires descent in holding to IAF.

† CAUTION: Missed Approach Minimum Climb Rate to 7300

Knots	60	120	180	240	300	360
V/V(fpm)	416	832	1248	1664	2080	2496

Controlling Obstacle 6667'

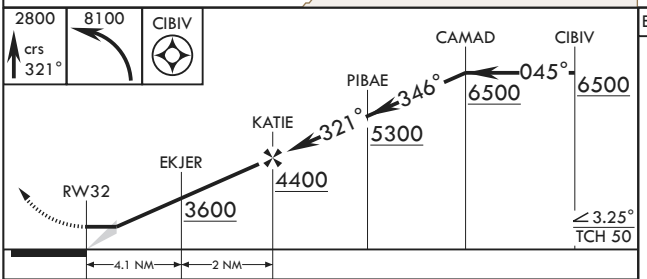
7776 2509 RW32 3603 2415 2462 EKJER 2450 (FAF) KATIE 2956 2983 3483 4400 (4.4) 321° 3711 PIBAE 5233 4999 5180 5300 (5.9) 346° 4183 4462 4952 (IF) CAMAD 6500 045° (12.4) 5261 5269

MSA RW32 25 NM 10,000

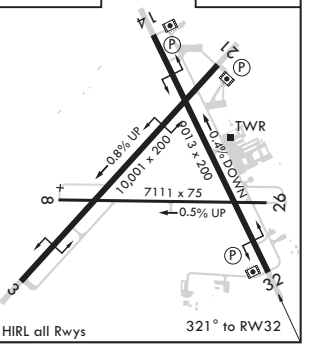
5 NM 225° 230K 045° Max holding alt 13,000 (IAF) CIBIV 6500

RADAR REQUIRED

EMERG SAFE ALT 100 NM 16,500



ELEV 2284 TDZE 2241



CATEGORY	A	B	C	D
LNAV MDA	2660-1 419 (400-1)		2660-1⅛ 419 (400-1⅛)	
C CIRCLING	2740-1 456 (500-1)	2820-1 536 (600-1)	2820-1½ 536 (600-1½)	3520-3 1236 (1300-3)

RIDGECREST, CALIFORNIA

Amdt 5 10SEP20

35°41'N - 117°42'W

CHINA LAKE NAWS (ARMITAGE FLD) (KNID)

RNAV (GPS) RWY 32

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

RIDGECREST, CALIFORNIA

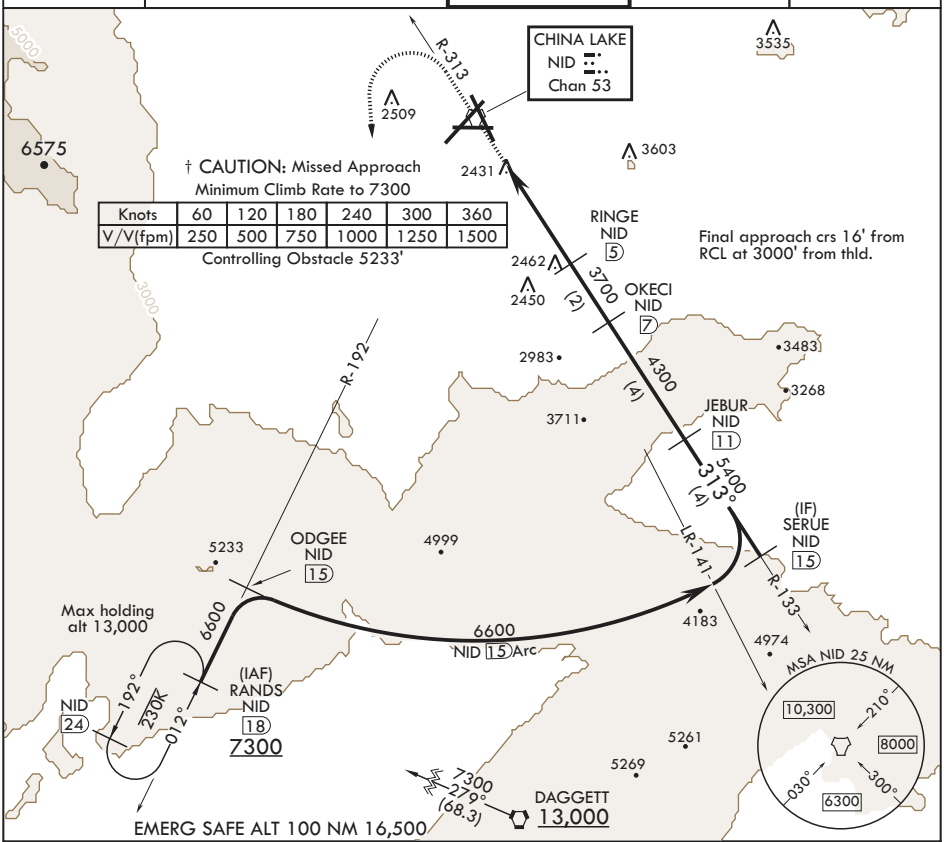
TACAN RWY 32

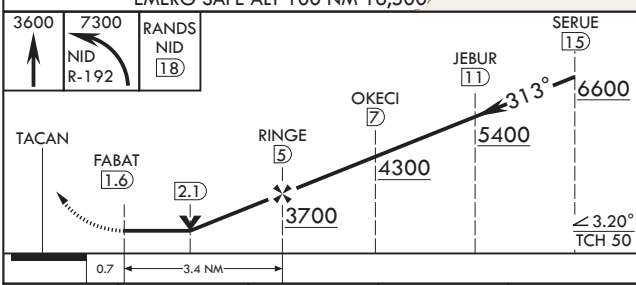
TACAN NID Chan 53	APCH CRS 313°	Rwy ldg 9013 TDZE 2241 Arpt Elev 2284

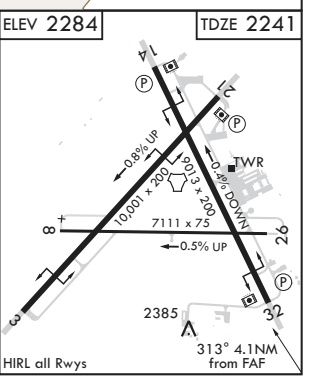
AL-914 (USN) CHINA LAKE NAWS (ARMITAGE FLD) (KNID)

† MISSED APPROACH: Climb to 3600 then a climbing left turn to 7300 to intercept China Lake TACAN R-192 to RANDS and hold.

ATIS★	JOSHUA APP CON/DEP CON	TOWER★	GND CON	CLNC DEL
322.375	133.65 348.7	120.15 340.2	360.2	274.7







CATEGORY	A	B	C	D
S-32	2720-1 479 (500-1)		2720-1⅜ 479 (500-1⅜)	
C CIRCLING	2740-1 456 (500-1)	2820-1 536 (600-1)	2820-1½ 536 (600-1½)	3500-3 1216 (1300-3)

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

RIDGECREST, CALIFORNIA 35°41'N - 117°42'W CHINA LAKE NAWS (ARMITAGE FLD) (KNID)

Amdt 5 10SEP20

TACAN RWY 32

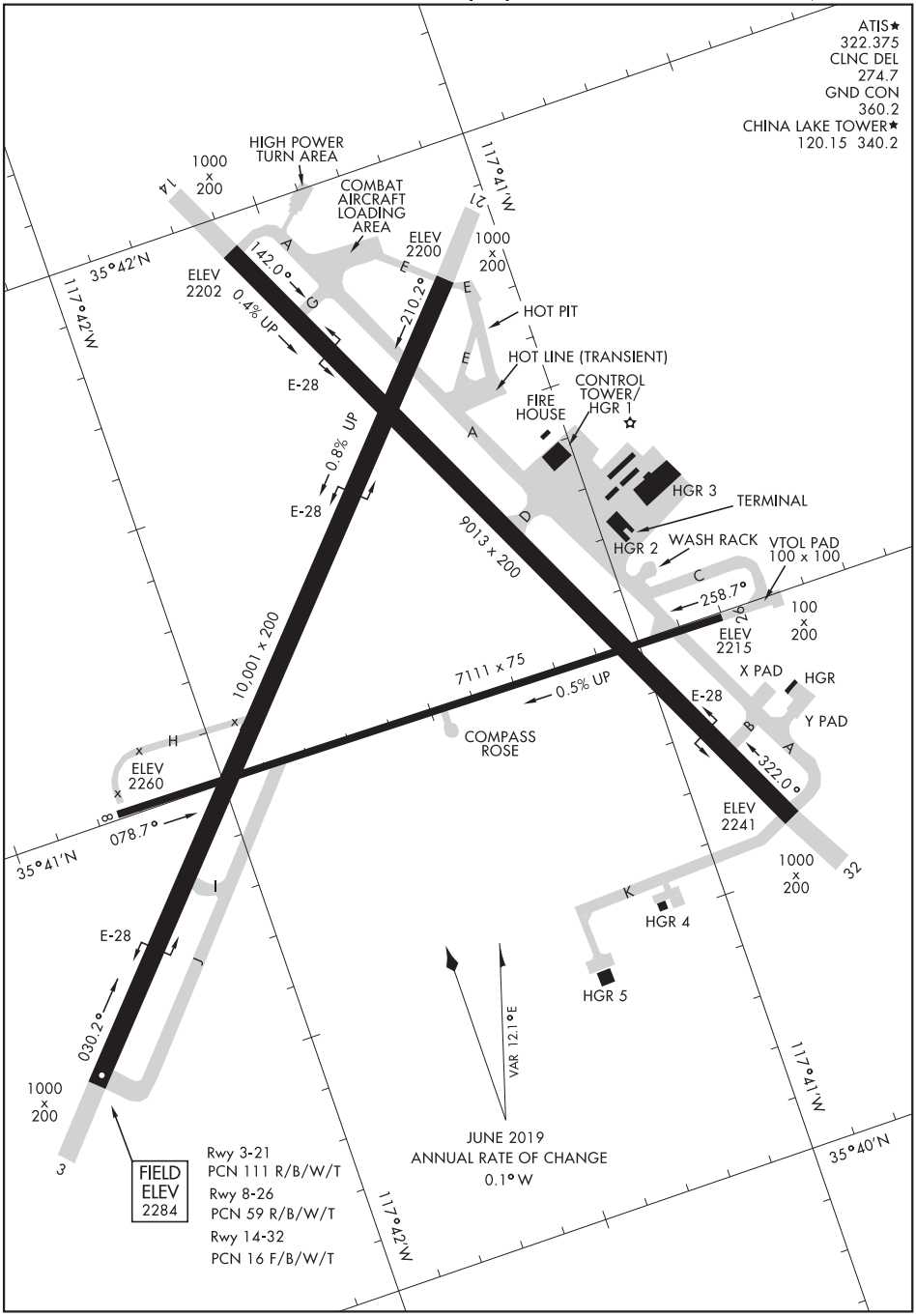
20030

AIRPORT DIAGRAM

CHINA LAKE NAWS (ARMITAGE FLD) (KNID)

AFD-914 [USN]

RIDGECREST, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

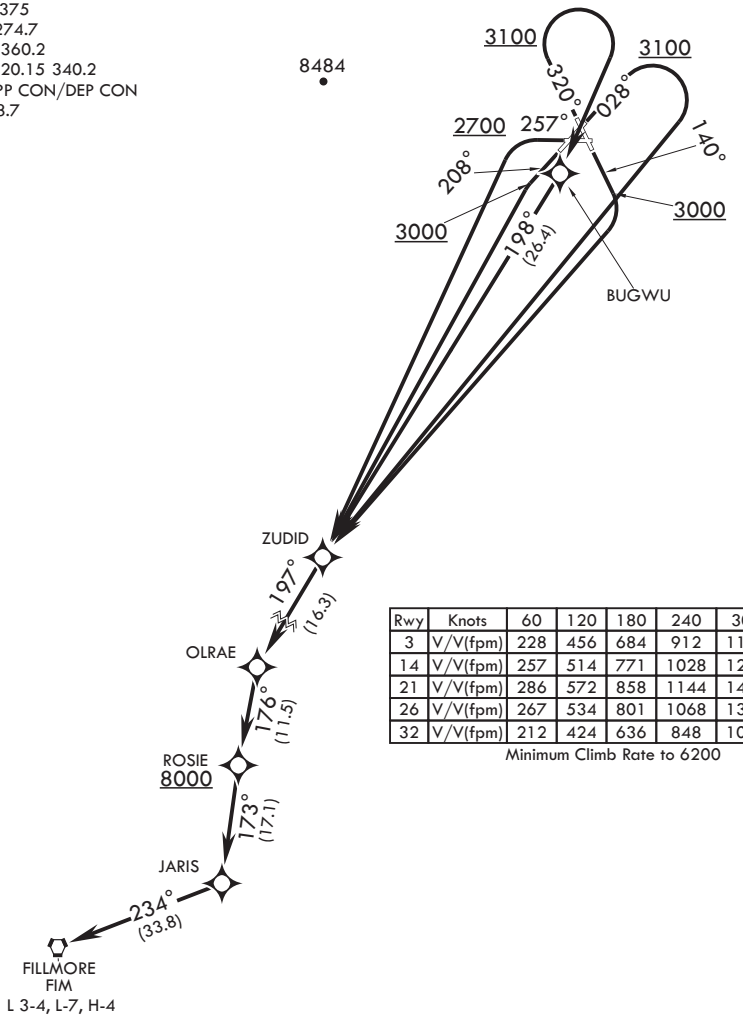
AIRPORT DIAGRAM

RIDGECREST, CALIFORNIA

CHINA LAKE NAWS (ARMITAGE FLD) (KNID)

SW-3, 05 NOV 2020 to 31 DEC 2020

ATIS ★ 322.375
CLNC DEL 274.7
GND CON 360.2
TOWER ★ 120.15 340.2
JOSHUA APP CON/DEP CON
133.65 348.7



Rwy	Knots	60	120	180	240	300	360
3	V/V(fpm)	228	456	684	912	1140	1368
14	V/V(fpm)	257	514	771	1028	1285	1542
21	V/V(fpm)	286	572	858	1144	1430	1716
26	V/V(fpm)	267	534	801	1068	1335	1602
32	V/V(fpm)	212	424	636	848	1060	1272

Minimum Climb Rate to 6200

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb heading 028° to 3100, then climbing right turn direct ZUDID. Thence...

TAKE-OFF RWY 14: Climb heading 140° to 3000, then climbing right turn direct ZUDID. Thence...

TAKE-OFF RWY 21: Climb heading 208° to 3000, then climbing left turn direct ZUDID. Thence...

TAKE-OFF RWY 26: Climb heading 257° to 2700, then climbing left turn direct ZUDID. Thence...

TAKE-OFF RWY 32: Climb heading 320° to 3100, then climbing right turn direct BUGWU, then direct ZUDID. Thence...

...from over ZUDID proceed via depicted route to FILLMORE VORTAC. Cross ROSIE at or above 8000 or as assigned.

20254

CHINA LAKE NAWS (ARMITAGE FLD) (KNID)

SALTD SEVEN DEPARTURE (SALTD7• SALTD)

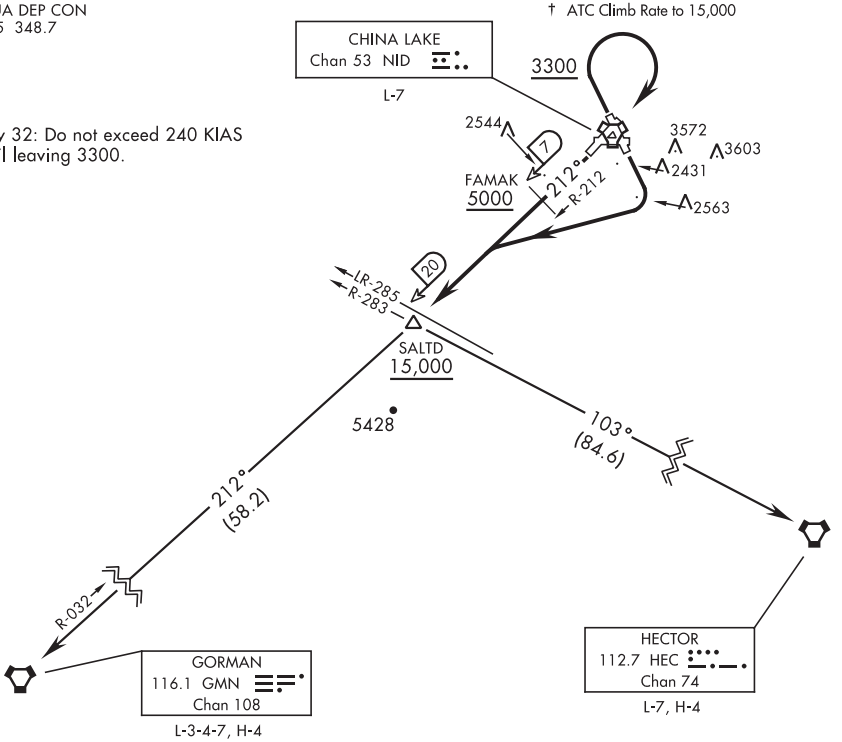
SHL-914 [USN] RIDGECREST, CALIFORNIA

ATIS★322.375
CLNC DEL
274.7
GND CON
360.2
CHINA LAKE TOWER★
120.15 340.2
JOSHUA DEP CON
133.65 348.7

Rwy	Knots	60	120	180	240	300	360
*14	V/V(fpm)	266	532	798	1064	1330	1596
†14	V/V(fpm)	620	1240	1860	2480	3100	3720
†21	V/V(fpm)	675	1350	2025	2700	3375	4050
†32	V/V(fpm)	496	992	1488	1984	2480	2976

* Minimum Climb Rate to 6200
† ATC Climb Rate to 15,000

Rwy 32: Do not exceed 240 KIAS until leaving 3300.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn to intercept NID TACAN R-212, then direct SALTD. From SALTD, proceed via assigned transition or RADAR vectors to join assigned route. Cross SALTD at or above 15,000. Thence...

TAKE-OFF RUNWAY 21: Climb via NID TACAN R-212 to FAMAK, then direct SALTD. From SALTD, proceed via assigned transition or RADAR vectors to join assigned route. Cross FAMAK at or above 5,000 and cross SALTD at or above 15,000. Thence...

TAKE-OFF RUNWAY 32: Climb via NID TACAN R-322 to 3300 then climbing right turn direct NID , then via NID R-212 to FAMAK, then direct SALTD. From SALTD, proceed via assigned transition or RADAR vectors to join assigned route. Cross FAMAK at or above5000 and cross SALTD at or above 15,000. Thence...

GORMAN TRANSITION (SALTD7•GMN): Via GMN VORTAC R-032 to GMN.

HECTOR TRANSITION (SALTD7•HEC): Via HEC VORTAC R-283 to HEC.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

ILS or LOC RWY 26R

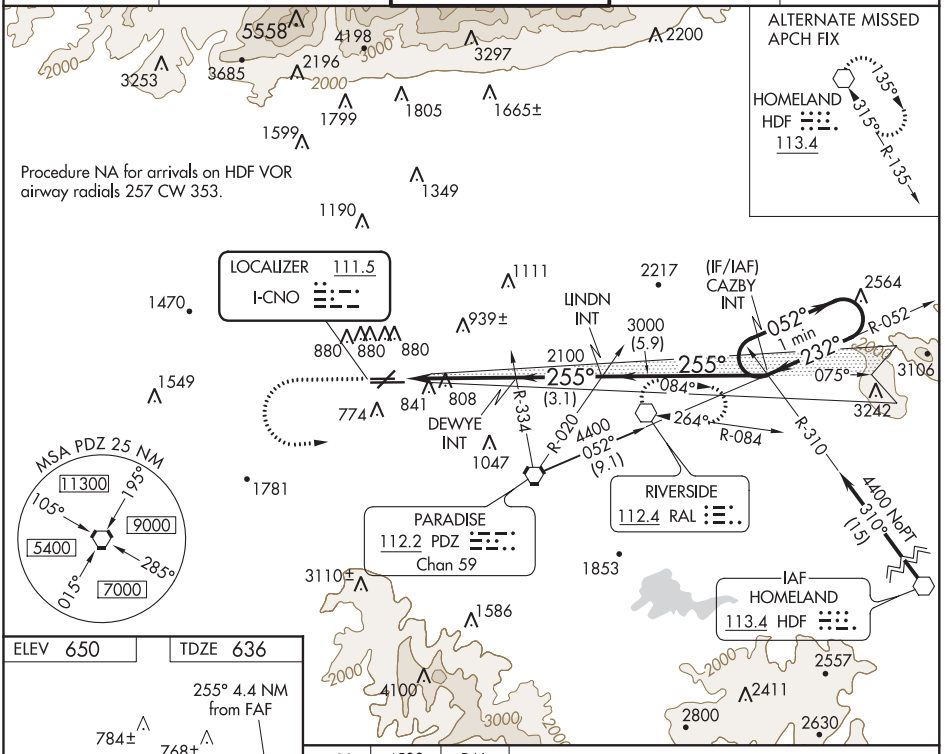
CHINO (CNO)

LOC I-CNO	APP CRS	Rwy Idg	4858
111.5	255°	TDZE	636
		Apt Elev	650

Helicopter visibility reduction below ¾ SM NA.
When local altimeter setting not received, use Ontario altimeter setting and increase all DA 54 feet and all MDA 60 feet, increase S-ILS 26R all Cats, S-LOC 26R Cat D and Circling Cat C visibility ¼ mile.

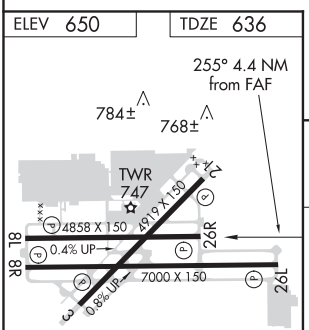
MISSED APPROACH: Climb to 1100 then climbing left turn to 4500 direct RAL VOR and hold, continue climb-in-hold to 4500.

ATIS	SOCAL APP CON	CHINO TOWER★	GND CON	UNICOM
125.85	135.4 318.2	118.5 (CTAF)	121.6	122.95



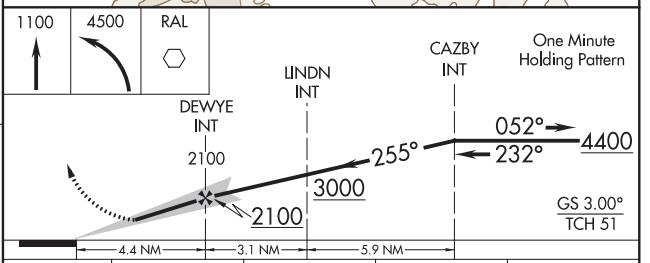
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020



REIL Rwys 3 and 21
MIRL Rwys 3-21 and 8R-26L
HIRL Rwy 8L-26R

FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28



CATEGORY	A	B	C	D
S-ILS 26R	886-¾ 250 (300-¾)			
S-LOC 26R	1060-1 424 (500-1)		1060-1¼ 424 (500-1¼)	
CIRCLING	1180-1 530 (600-1)		1240-1½ 590 (600-1½)	1240-2 590 (600-2)

CHINO, CALIFORNIA | AL-5599 (FAA) | 19115

RNAV (GPS) RWY 26R

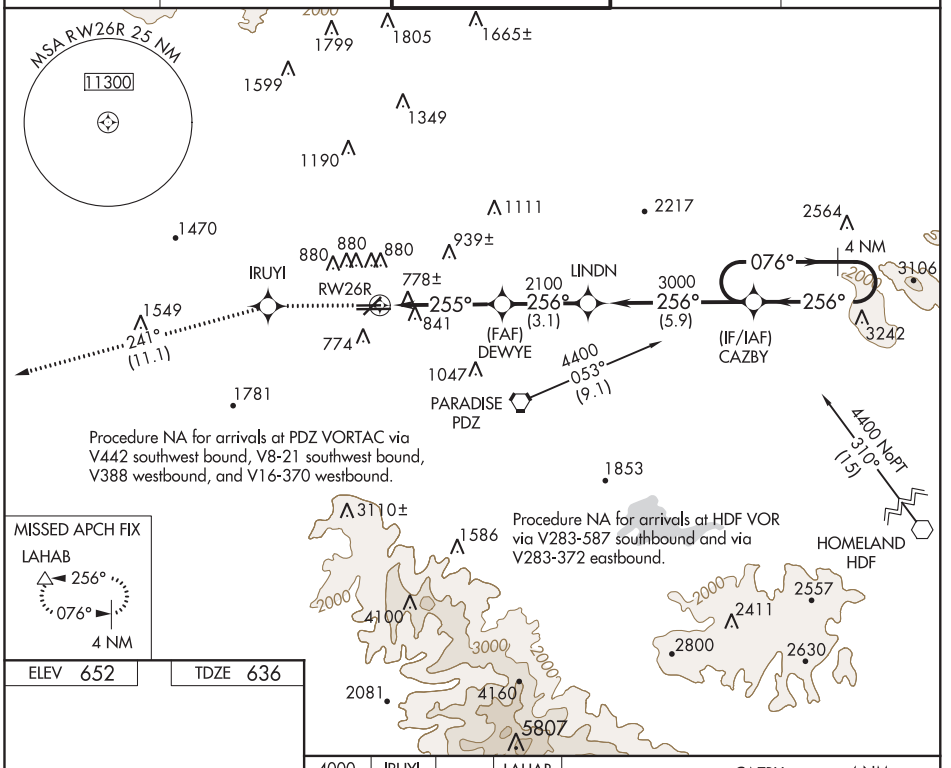
CHINO (CNO)

WAAS	APP CRS	Rwy Idg	4858
CH 97320	255°	TDZE	636
W26A		Apt Elev	652

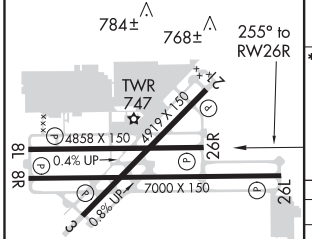
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP- 0.3 NA. Helicopter visibility reduction below ¾ SM not authorized.

MISSED APPROACH: Climb to 4000 direct IRUYI and via 241° track to LAHAB and hold.

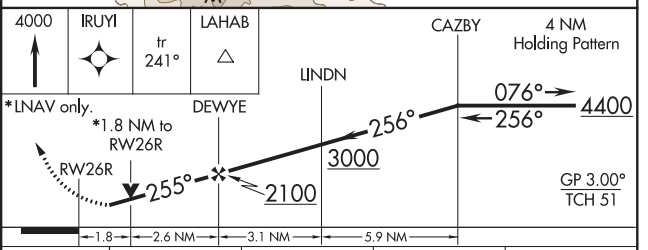
ATIS	SOCAL APP CON	CHINO TOWER★	GND CON	UNICOM
125.85	135.4 318.2	118.5 (CTAF)	121.6	122.95



ELEV 652 | TDZE 636



REIL Rwys 3 and 21
MIRL Rwys 3-21 and 8R-26L
HIRL Rwy 8L-26R



CATEGORY	A	B	C	D
LPV DA	1030-1¼ 394 (400-1¼)			
LNAV/VNAV DA	1177-2 541 (600-2)			
LNAV MDA	1260-1 624 (700-1)		1260-1¾ 624 (700-1¾)	1260-2 624 (700-2)
CIRCLING	1260-1¾ 608 (700-1¾)			1260-2 608 (700-2)

CHINO, CALIFORNIA
Orig-D 10DEC15

33°58'N-117°38'W

CHINO (CNO)

RNAV (GPS) RWY 26R

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VOR RWY 26R

CHINO (CNO)

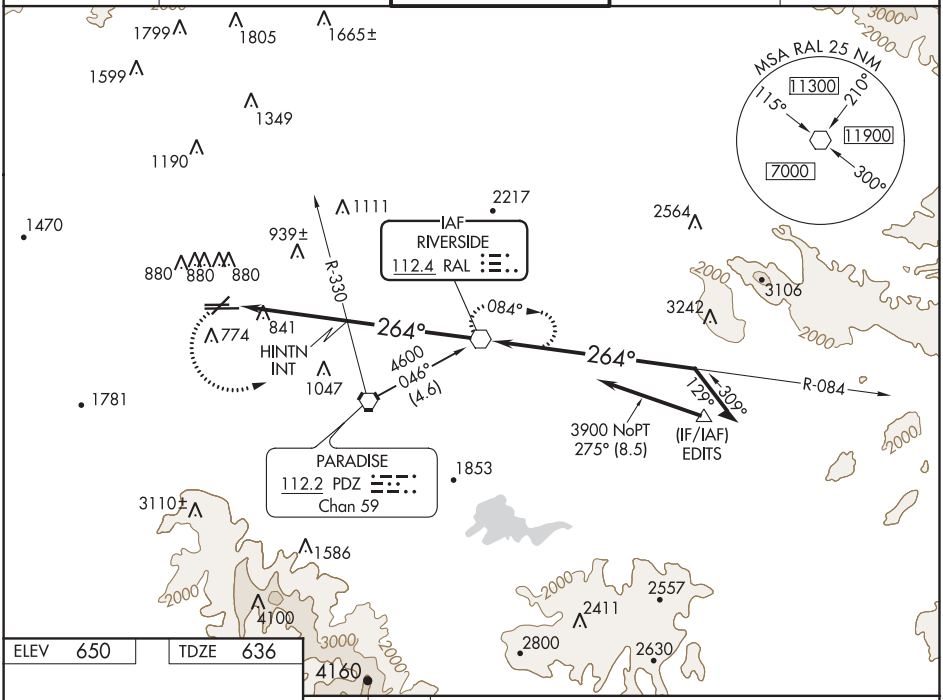
VOR RAL	APP CRS	Rwy Idg	4858
112.4	264°	TDZE	636
		Apt Elev	650

T
NA

Visibility reduction by helicopters NA.
When local altimeter setting not received, use Riverside Muni altimeter setting and increase all MDA 60 feet, increase HINTN FIX minimums S-26R and circling Cat B, C, and D visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4500 direct RAL VOR and hold, continue climb-in-hold to 4500.

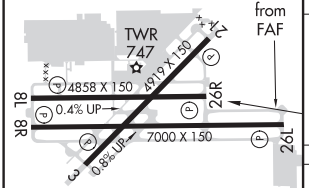
ATIS	SOCAL APP CON	CHINO TOWER ★	GND CON	UNICOM
125.85	135.4 318.2	118.5 (CTAF)	121.6	122.95



SW-3, 05 NOV 2020 to 31 DEC 2020

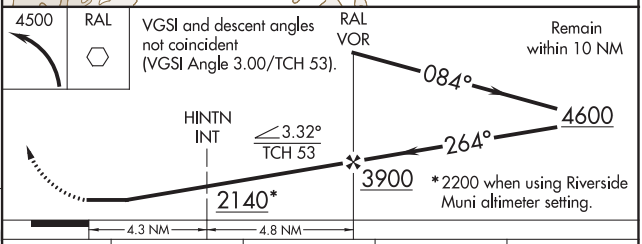
SW-3, 05 NOV 2020 to 31 DEC 2020

ELEV 650 TDZE 636



REIL Rwys 3 and 21
MIRL Rwys 3-21 and 8R-26L
HIRL Rwy 8L-26R

FAF to MAP 9.1 NM					
Knots	60	90	120	150	180
Min:Sec	9:06	6:04	4:33	3:38	3:02



CATEGORY	A	B	C	D
S-26R	2140-1¼ 1504 (1500-1¼)	2140-1½ 1504 (1500-1½)	2140-3 1504 (1500-3)	
CIRCLING	2140-1¼ 1490 (1500-1¼)	2140-1½ 1490 (1500-1½)	2140-3 1490 (1500-3)	
HINTN FIX MINIMUMS				
S-26R	1320-1 684 (700-1)		1320-2 684 (700-2)	1320-2¼ 684 (700-2¼)
CIRCLING	1320-1 670 (700-1)		1320-2 670 (700-2)	1320-2¼ 670 (700-2¼)

20086
AIRPORT DIAGRAM
AL-5599 (FAA)
CHINO (CNO)
CHINO, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
CHINO, CALIFORNIA
CHINO (CNO)

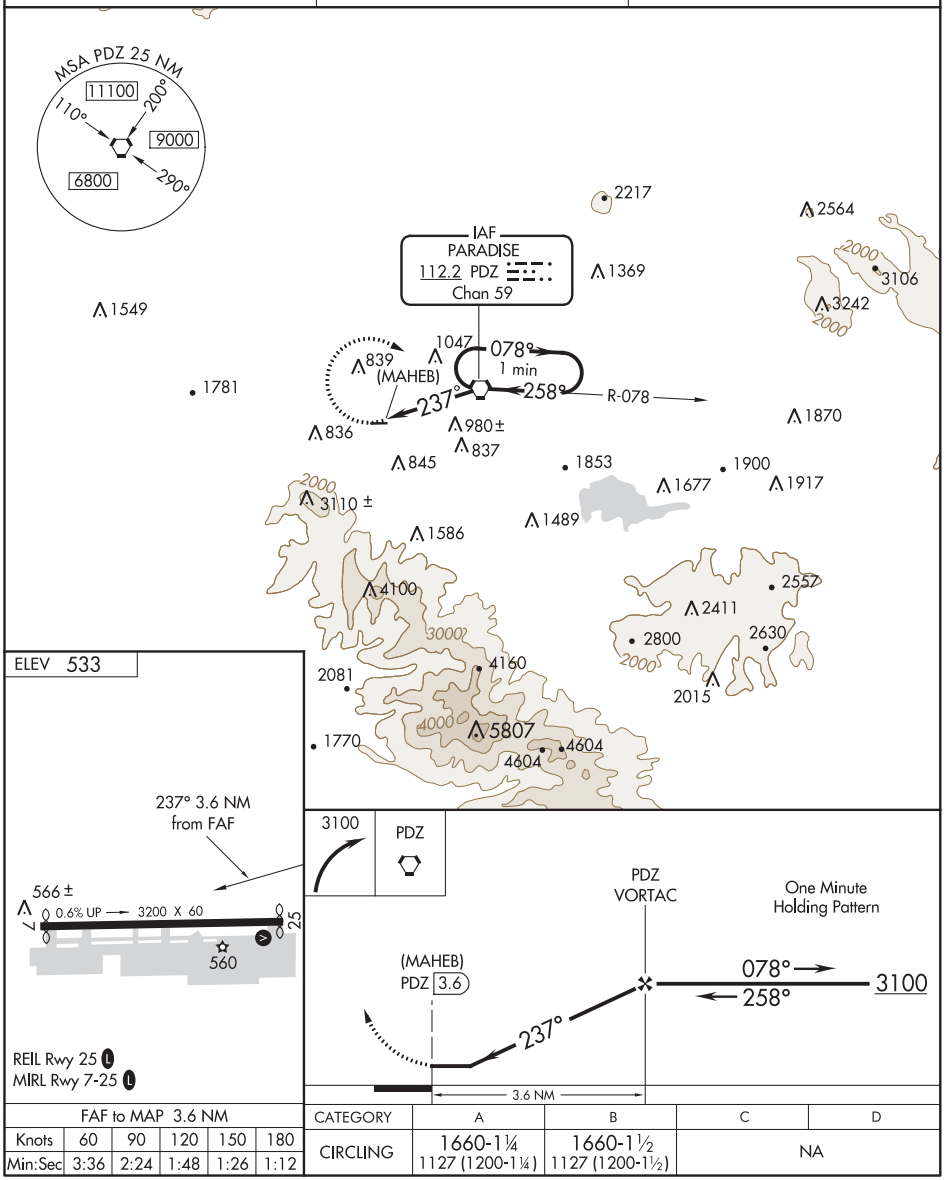
VORTAC PDZ	APP CRS	Rwy Idg	N/A
112.2	237°	TDZE	N/A
Chan 59		Apt Elev	533

VOR or GPS-A
CORONA MUNI (AJO)

When local altimeter setting not received, use Ontario Intl altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climbing right turn to 3100 direct PDZ VORTAC and hold, continue climb in hold to 3100.

AWOS-3PT	SOCAL APP CON	UNICOM
132.175	135.4 318.2	122.7 (CTAF) L



FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

CATEGORY	A	B	C	D
CIRCLING	1660-1¼ 1127 (1200-1¼)	1660-1½ 1127 (1200-1½)	NA	

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

DAGGETT, CALIFORNIA | AL-104 (FAA) | 19199

RNAV (GPS) RWY 22

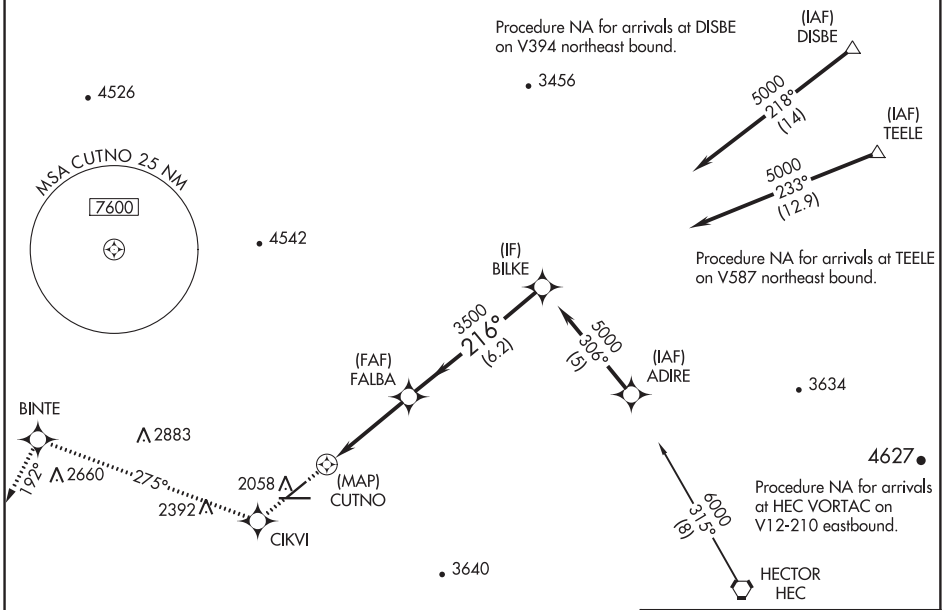
BARSTOW-DAGGETT (DAG)

APP CRS	Rwy Idg	5123
216°	TDZE	1918
	Apt Elev	1930

RNP APCH.

MISSED APPROACH: Climb to 8000 direct CIKVI and on track 275° to BINTE and on track 192° to NULMN and hold, continue climb-in-hold to 8000.

ASOS	LOS ANGELES CENTER	UNICOM
132.175	132.5 284.7	123.0 (CTAF) L

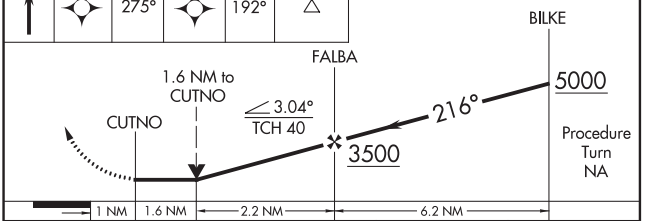


ELEV 1930 | TDZE 1918

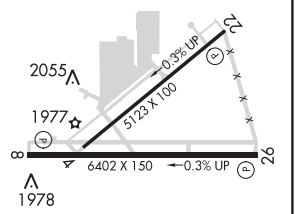
MISSED APCH FIX

8000	CIKVI	tr 275°	BINTE	tr 192°	NULMN

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 49).



CATEGORY	A	B	C	D
LNAV MDA	2800-1¼ 882 (900-1¼)		2800-2¾ 882 (900-2¾)	2800-3 882 (900-3)



MIRL Rwys 4-22 and 8-26 L

DAGGETT, CALIFORNIA
Amdt 2C 18JUL19

34°51′N-116°47′W

BARSTOW-DAGGETT (DAG)

RNAV (GPS) RWY 22

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS	Rwy Idg	6402
CH 72813	255°	TDZE	1918
W26A		Apt Elev	1930

RNAV (GPS) RWY 26

BARSTOW-DAGGETT (DAG)

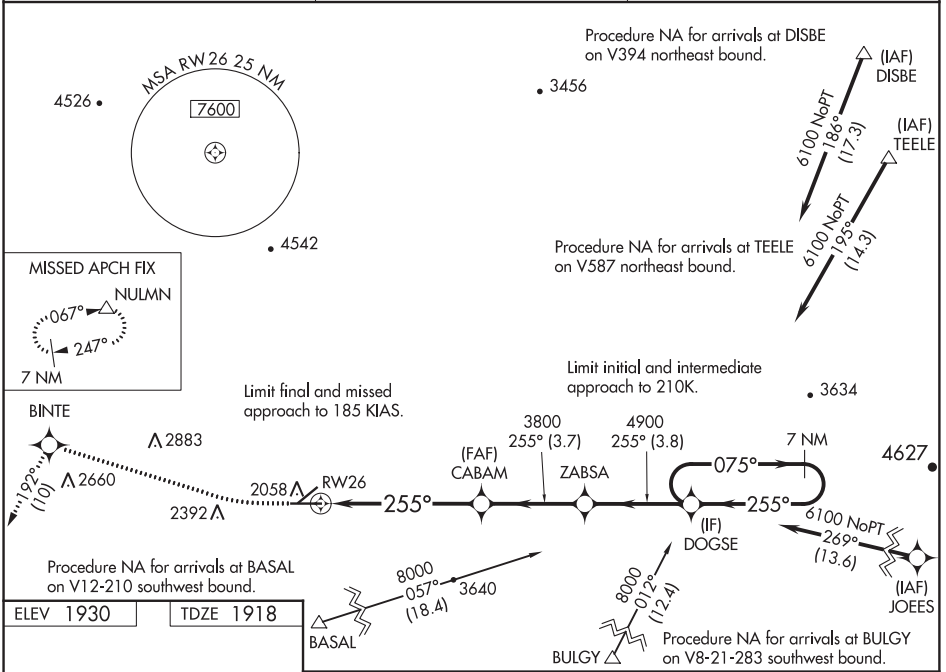
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C or above 54°C. Circling NA for Cat D south of Rwy 8-26. Rwy 26 helicopter visibility reduction below ¾ SM NA.

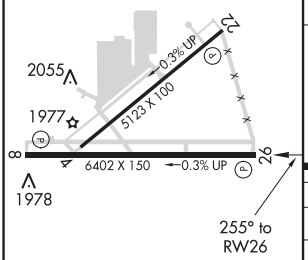
#Missed approach requires a minimum climb of 220 feet per NM to 8000.

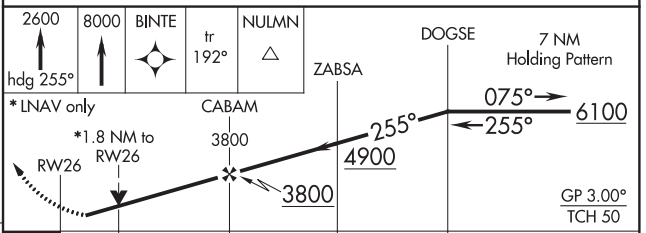
MISSED APPROACH: Climb to 2600 on heading 255° then climb to 8000 direct BINTE and on track 192° to NULMN and hold, continue climb-in-hold to 8000.

ASOS	LOS ANGELES CENTER	UNICOM
132.175	132.5 284.7	123.0 (CTAF) L



ELEV 1930 TDZE 1918





CATEGORY	A	B	C	D
LPV DA#	2222-1 304 (300-1)			
LPV DA	2343-1 3/8 425 (500-1 3/8)			
LNAV/VNAV DA	2389-1 5/8 471 (500-1 5/8)			
LNAV MDA	2540-1 622 (700-1)		2540-1 3/4 622 (700-1 3/4)	
C CIRCLING	2640-1 710 (800-1)	2860-1 1/4 930 (1000-1 1/4)	3500-3 1570 (1600-3)	

MIRL Rwys 4-22 and 8-26 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

DAGGETT, CALIFORNIA | AL-104 (FAA) | 20142

VOR or TACAN RWY 22

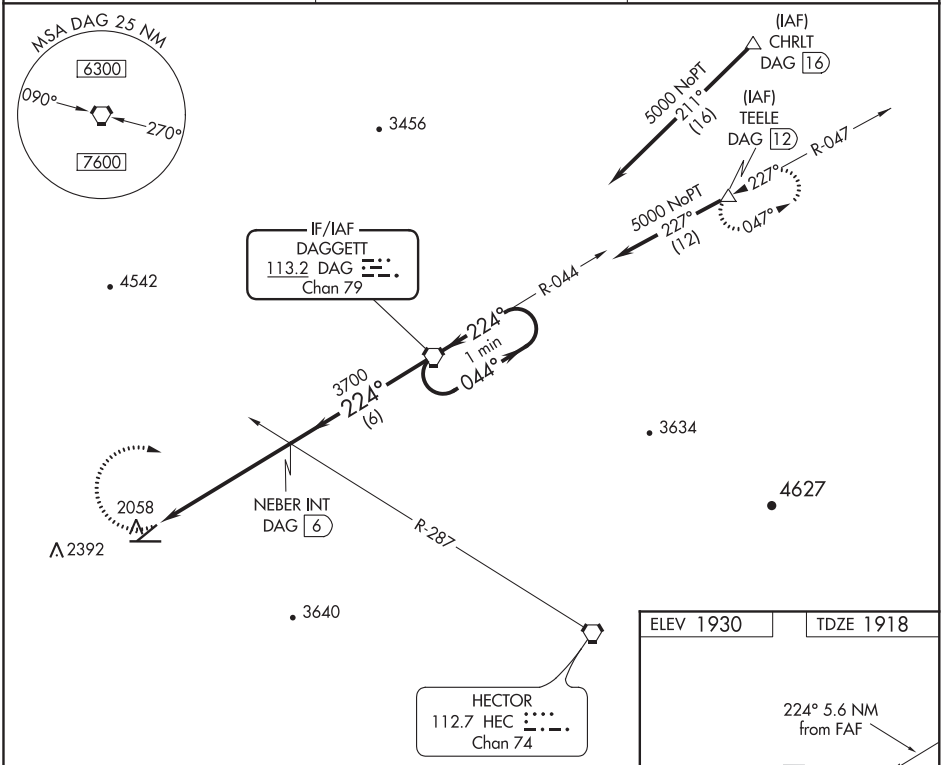
BARSTOW-DAGGETT (DAG)

VORTAC DAG	APP CRS	Rwy Idg	5123
113.2	224°	TDZE	1918
Chan 79		Apt Elev	1930

Circling NA for Cat D south of Rwy 8-26.

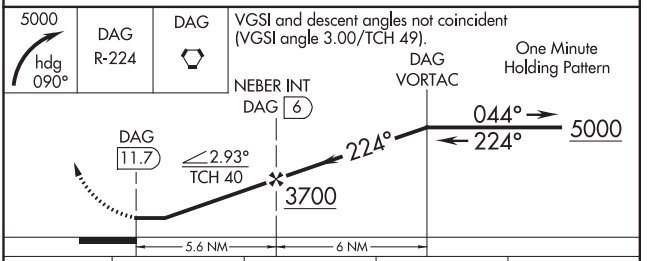
MISSED APPROACH: Climbing right turn to 5000 via heading 090° and via DAG VORTAC R-224 to DAG VORTAC and hold (TACAN aircraft climb to 6000 via DAG VORTAC R-047 to TEELE/DAG 12 DME and hold NE, LT 227° inbound).

ASOS	LOS ANGELES CENTER	UNICOM
132.175	132.5 284.7	123.0 (CTAF) L

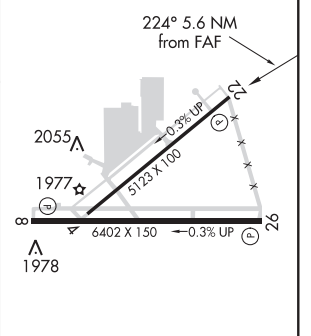


SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020



CATEGORY	A	B	C	D
S-22	3160-1¼ 1242 (1300-1¼)	3440-1½ 1522 (1600-1½)	3440-3 1522 (1600-3)	3540-3 1622 (1700-3)
C CIRCLING	3160-1¼ 1230 (1300-1¼)	3440-1½ 1510 (1600-1½)	3500-3 1570 (1600-3)	3540-3 1610 (1700-3)



MIRL Rwys 4-22 and 8-26 L

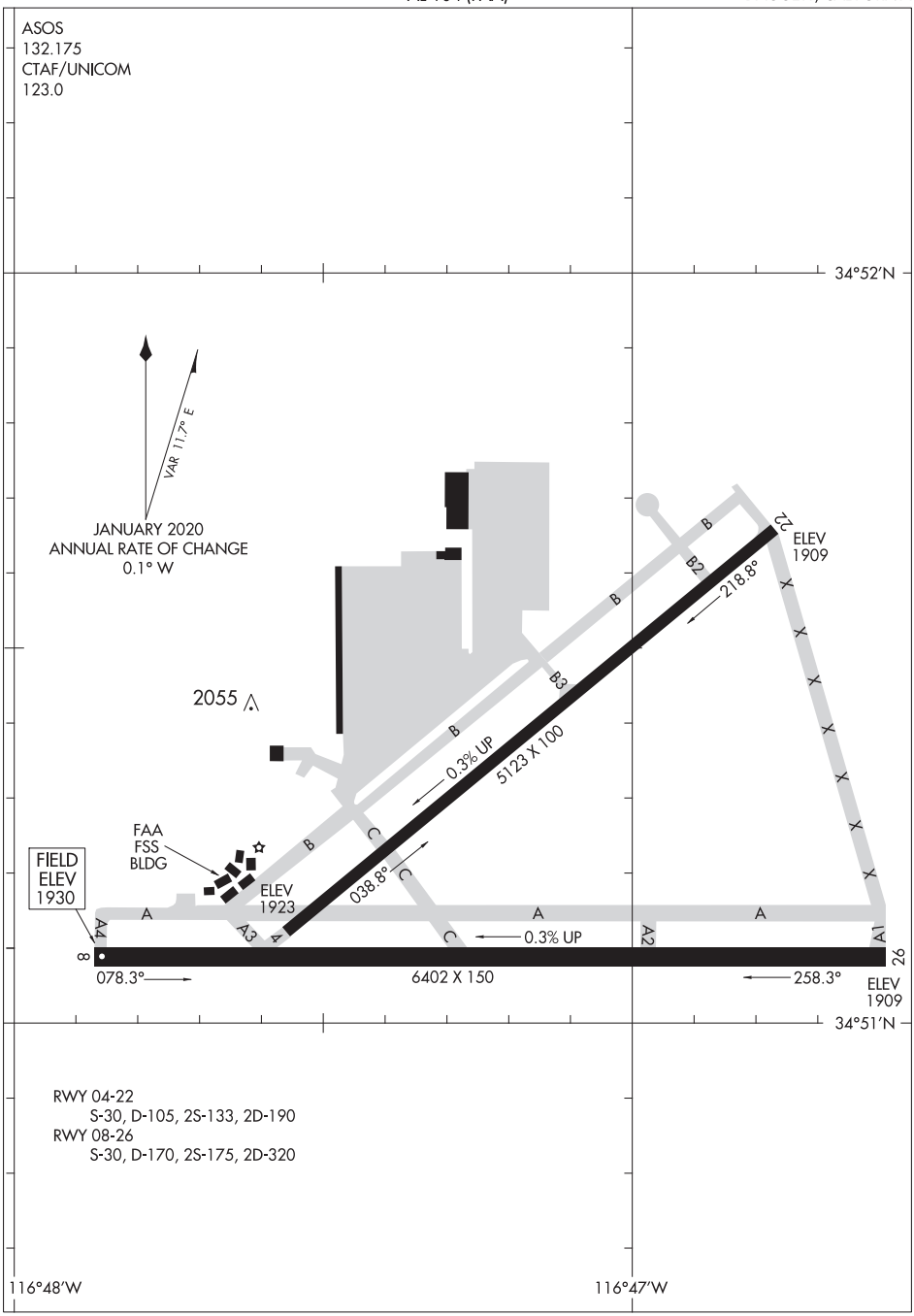
FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

DAGGETT, CALIFORNIA
Amdt 10B 06DEC18

34°51'N-116°47'W

BARSTOW-DAGGETT (DAG)

VOR or TACAN RWY 22



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

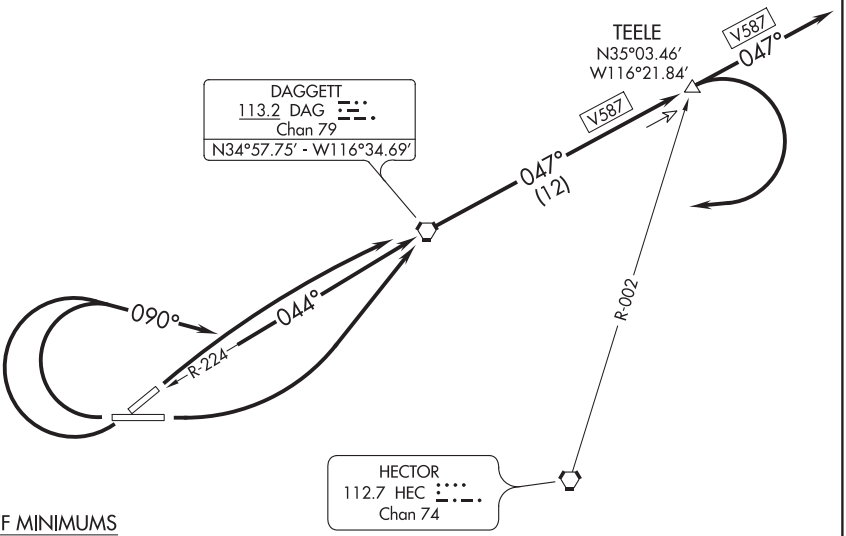
(DAG1.DAG) 16091

DAGGETT ONE DEPARTURE (OBSTACLE)

SL-104 (FAA)

BARSTOW-DAGGETT (DAG)
DAGGETT, CALIFORNIA

LOS ANGELES CENTER
132.5 284.7



TAKEOFF MINIMUMS

Rwy 4: Standard.
Rwy 8: Standard.
Rwy 22: Standard with minimum climb of 452′ per NM to 3700, or 4600-3 for climb in visual conditions.
Rwy 26: Standard with minimum climb of 420′ per NM to 4600, or 4600-3 for climb in visual conditions.

TAKEOFF OBSTACLE NOTES

Rwy 4: Bush 44′ from DER, 286′ left of centerline, 6′ AGL/1914′ MSL. Bush 51′ from DER, 295′ left of centerline, 7′ AGL/1915′ MSL. Bush 126′ from DER, 86′ left of centerline, 4′ AGL/1912′ MSL.
Rwy 8: Multiple bushes beginning 113′ from DER, 259′ left of centerline, up to 16′ AGL/1924′ MSL.
Rwy 22: Tree 5668′ from DER, 1824′ left of centerline, 40′ AGL/2143′ MSL. Multiple poles 78′ left of centerline, up to 73′ AGL/1995′ MSL. Railroad 1224′ from DER, 402′ left of centerline, 23′ AGL/1980′ MSL. Obstruction light on ROD 64′ from DER, 495′ right of centerline, 45′ AGL/1968′ MSL. Pole 2635′ from DER, 279′ right of centerline, 72′ AGL/1995′ MSL.
Rwy 26: Vehicles on road 360′ from DER, 265′ left of centerline, 15′ AGL/1946′ MSL. Railroad 953′ from DER, 355′ left of centerline, 23′ AGL/1958′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4: Climbing right turn direct DAG VORTAC, thence. . . .
TAKEOFF RUNWAY 8: Climbing left turn direct DAG VORTAC, thence. . . .
TAKEOFF RUNWAY 22: Climbing right turn heading 090° to intercept DAG R-224 to DAG VORTAC. Thence. . . . or climb in visual conditions to cross Barstow-Daggett Airport at or above 6800 before proceeding on course.
TAKEOFF RUNWAY 26: Climbing right turn heading 090° to intercept DAG R-224 to DAG VORTAC. Thence. . . . or climb in visual conditions to cross Barstow-Daggett Airport at or above 6800 before proceeding on course.

. . . .on DAG R-047 to TEELE INT/DAG 12 DME, aircraft proceeding via V587 continue climb on course, all others, climbing right turn to 7500 to DAG VORTAC then as assigned.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

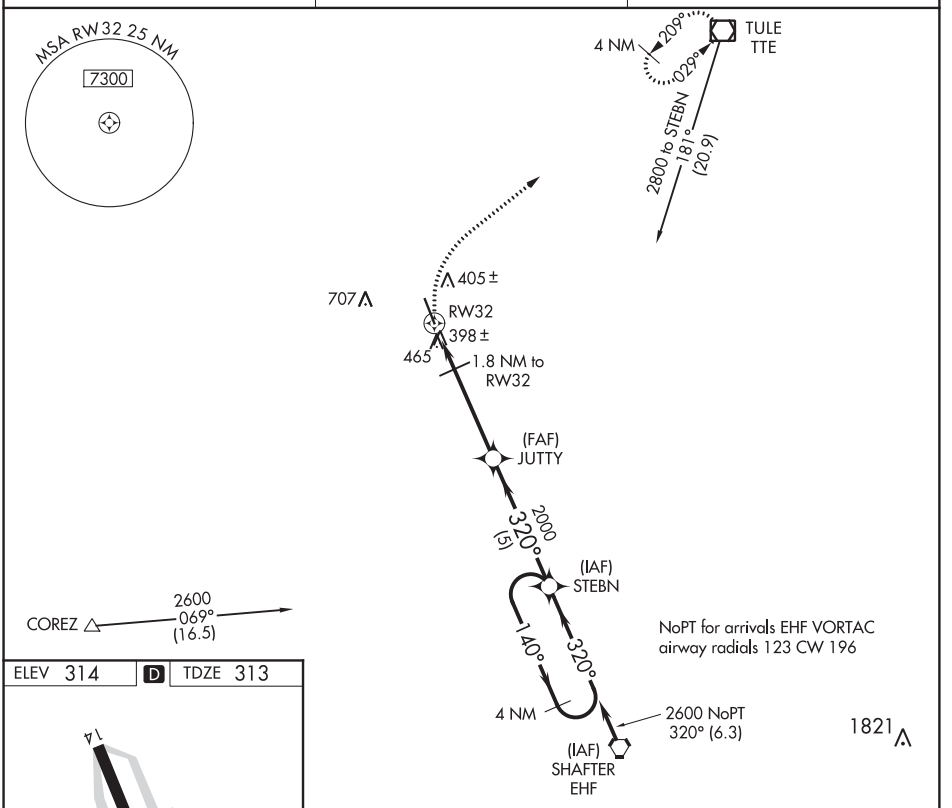
APP CRS	Rwy Idg	5659
320°	TDZE	313
	Apt Elev	314

GPS RWY 32
DELANO MUNI (DLO)

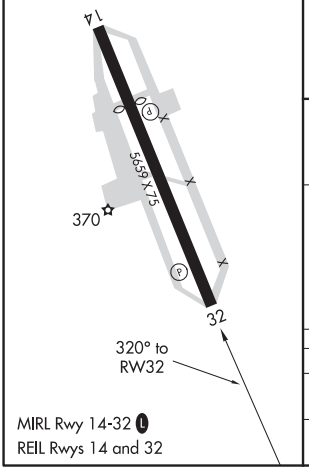
Circling not authorized Southwest of Rwy 14-32.

MISSED APPROACH: Climbing right turn to 3000 direct TTE VOR/DME and hold.

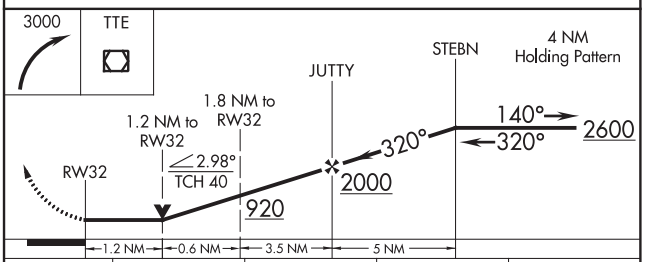
AWOS-3P	BAKERSFIELD APP CON ★	UNICOM
119.55	118.9	122.8 (CTAF) L



ELEV 314 D TDZE 313



MIRL Rwy 14-32 L
REIL Rwys 14 and 32



CATEGORY	A	B	C	D
S-32	720-1 407 (500-1)		720-1¼ 407 (500-1¼)	
CIRCLING	760-1 446 (500-1)	780-1 466 (500-1)	780-1½ 466 (500-1½)	880-2 566 (600-2)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

DELANO, CALIFORNIA | AL-6173 (FAA) | 18312

VOR RWY 32

DELANO MUNI (DLO)

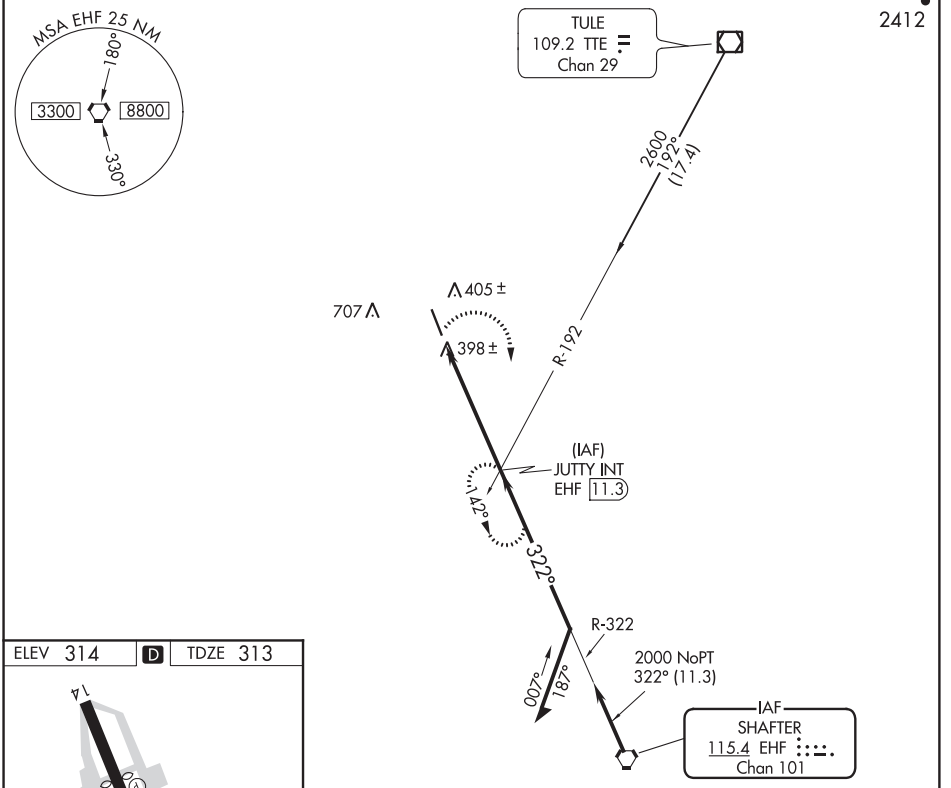
VORTAC EHF	APP CRS	Rwy Idg	5659
115.4	322°	TDZE	313
Chan 101		Apt Elev	314

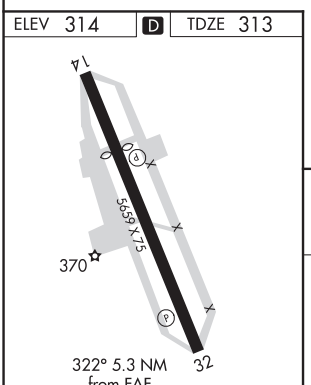
NA — Circling NA southwest of Rwy 14-32.

MISSED APPROACH: Climbing right turn to 2000 via EHF R-322 to JUTTY INT and hold.

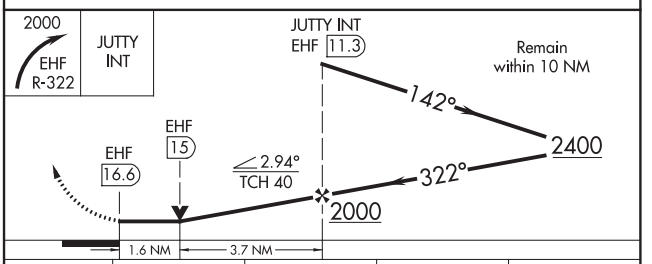
AWOS-3P	BAKERSFIELD APP CON ★	UNICOM
119.55	118.9	122.8 (CTAF) L

2412





FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46



CATEGORY	A	B	C	D
S-32	860-1 547 (600-1)		860-1½ 547 (600-1½)	860-1¾ 547 (600-1¾)
CIRCLING	860-1 546 (600-1)		860-1½ 546 (600-1½)	880-2 566 (600-2)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

EDWARDS, CALIFORNIA

ILS or LOC/DME Y RWY 23L

LOC I-EDW	APCH CRS	Rwy ldg 15,024 TDZE 2286 Arpt Elev 2311
110.1	226°	

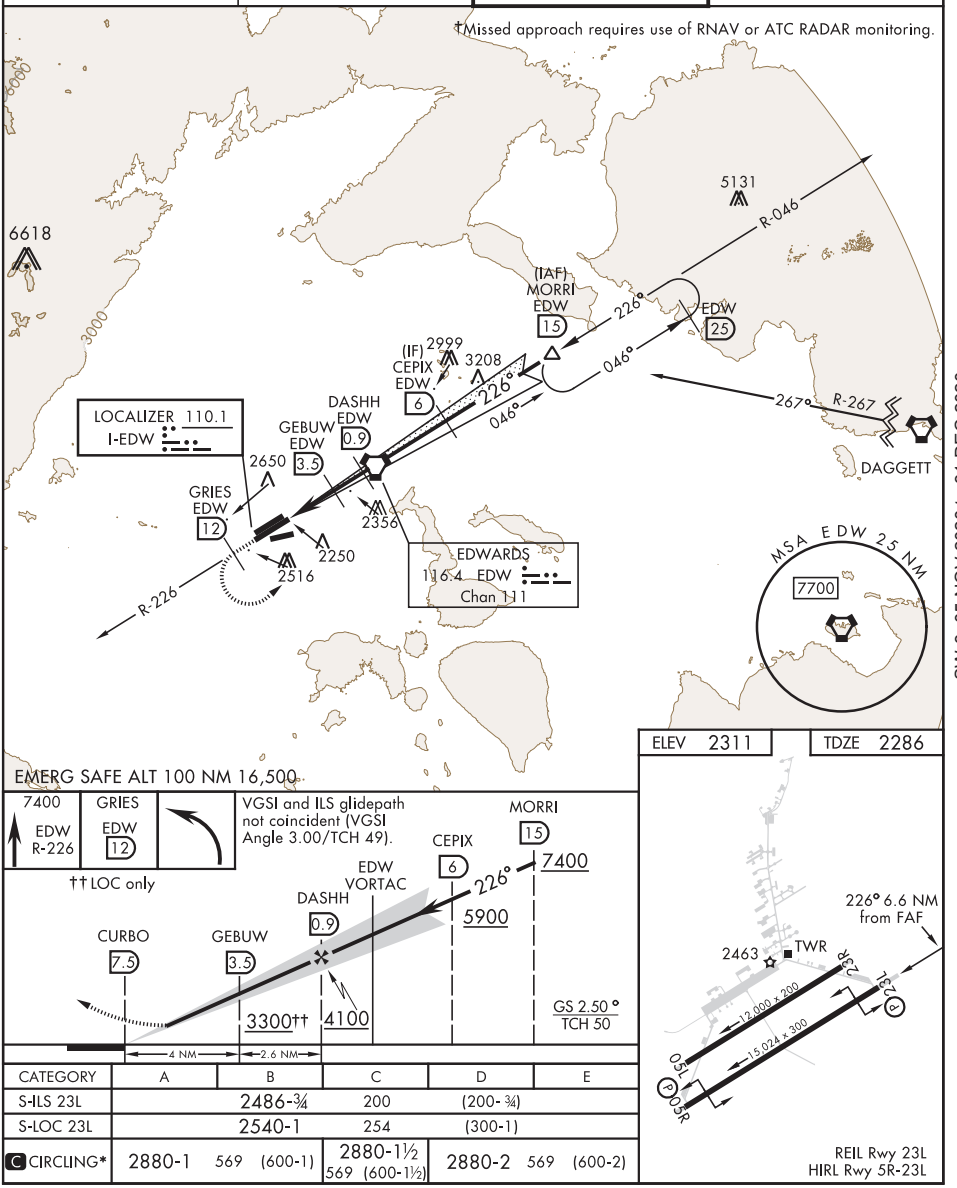
AL-500 [USAF] EDWARDS AFB (KEDW)

*Circling not authorized NW of Rwy 5L-23R. Circling not authorized at night to Rwy 5L-23R.

†MISSED APPROACH: Climb to 7400. Track EDW R-226 outbound to GRIES, then turn left direct MORRI and hold.

ATIS ★	SPORT APP CON	EDWARDS TOWER ★	GND CON
127.425 269.9	132.75	120.7 318.1	121.8 225.4

†Missed approach requires use of RNAV or ATC RADAR monitoring.



CATEGORY	A	B	C	D	E
S-ILS 23L		2486-¾	200	(200-¾)	
S-LOC 23L		2540-1	254	(300-1)	
C CIRCLING*	2880-1 569 (600-1)		2880-1½ 569 (600-1½)	2880-2 569 (600-2)	

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

EDWARDS, CALIFORNIA

RNAV (GPS) RWY 5R

APCH CRS	Rwy ldg	15,024
046°	TDZE	2303
	Arpt Elev	2311

AL-500 (USAF)

EDWARDS AFB (KEDW)

* Circling not authorized NW of Rwy 5L-23R.

MISSED APPROACH: Climb to 5700 direct KIIRK and hold, continue climb-in-hold to 5700.

ATIS★	SPORT APP CON/DEP CON	TOWER★	GND CON
127.425 269.9	132.75 343.7	120.7 318.1	121.8 225.4

DME/DME RNP-0.3 NA

For uncompensated Baro VNAV systems, procedure NA below -19°C (-2°F) or above 54°C (130°F).

5296

4197

KIIRK

3400

046°

226°

4 NM

2606

2749

2394

2379

RW05R

(IAF)
TESST
8200

5500
116°
(10.7)

3900
046°
(6.5)

(FAF)
YAYGR

(IAF/IF)
MOTNE

3244

5500
046°
(11.7)

5500
338°
(10.8)

(IAF)
PNCHO
8200

(IAF)
FLYTE
8200

MSA RW05R 25 NM
8900

4682

5307

EMERG SAFE ALT 100 NM 16,500

VGSI and descent angles not coincident.

5700

KIIRK

†LNAV only

MOTNE

5500

046°

YAYGR

3900

†1.5 NM to RW05R

RW05R

GP 3.00°
TCH 50

4.8 NM

ELEV 2311

TDZE 2303

2680

BCN
2463

TWR

23L

23R

12,000 × 200

15,024 × 300

2410

5L

5R

8000 × 50

25

046° to RW05R

REIL Rwy 23L
HIRL Rwy 5R-23L

CATEGORY	A	B	C	D	E
LNAV/VNAV DA	2820-1⅜		517	(600-1⅜)	
LNAV MDA	2820-1	517 (600-1)	2820-1⅜	517	(600-1⅜)
C CIRCLING*	2880-1	569 (600-1)	2880-1½ 569 (600-1½)	2880-2	569 (600-2)

EDWARDS, CALIFORNIA

RNAV (GPS) RWY 23L

APCH CRS	Rwy ldg	15,024
226°	TDZE	2286
	Arpt Elev	2311

AL-500 (USAF)

EDWARDS AFB (KEDW)

* Circling not authorized NW of Rwy 5L-23R.

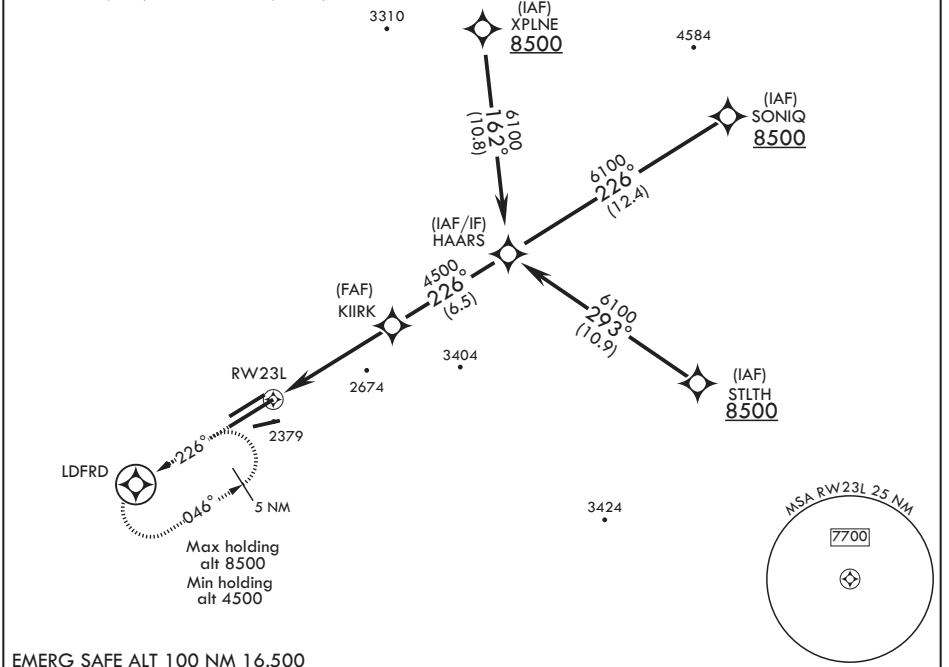
MISSED APPROACH: Climb to 5700 direct LDFRD, continue climb-in-hold to 5700.

ATIS★	SPORT APP CON/DEP CON	TOWER★	GND CON
127.425 269.9	132.75 343.7	120.7 318.1	121.8 225.4

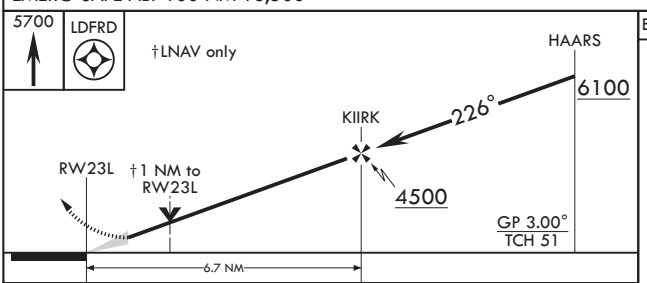
DME/DME RNP-0.3 NA

5010

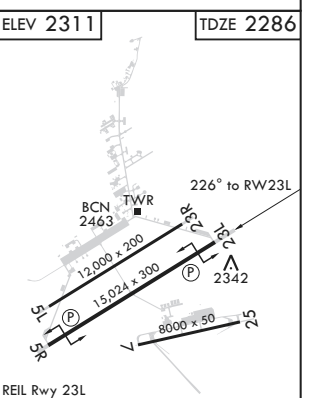
For uncompensated Baro-VNAV systems, Procedure NA below -19° C (-2°F) or above 54°C (130°F).



EMERG SAFE ALT 100 NM 16,500



ELEV 2311 TDZE 2286



CATEGORY	A	B	C	D	E
LNAV/VNAV DA	2620-1		334	(400-1)	
LNAV MDA	2660-1		374	(400-1)	
C CIRCLING*	2880-1 569 (600-1)		2880-1½ 569 (600-1½)	2880-2 569 (600-2)	

EDWARDS, CALIFORNIA

Amdt 1 30JAN20

34°55'N - 117°53'W

EDWARDS AFB (KEDW)

RNAV (GPS) RWY 23L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

EDWARDS, CALIFORNIA

VOR/DME or TACAN RWY 5L

VORTAC EDW	APCH CRS	Rwy ldg 12,000
116.4	049°	TDZE 2311
Chan 111		Arpt Elev 2311

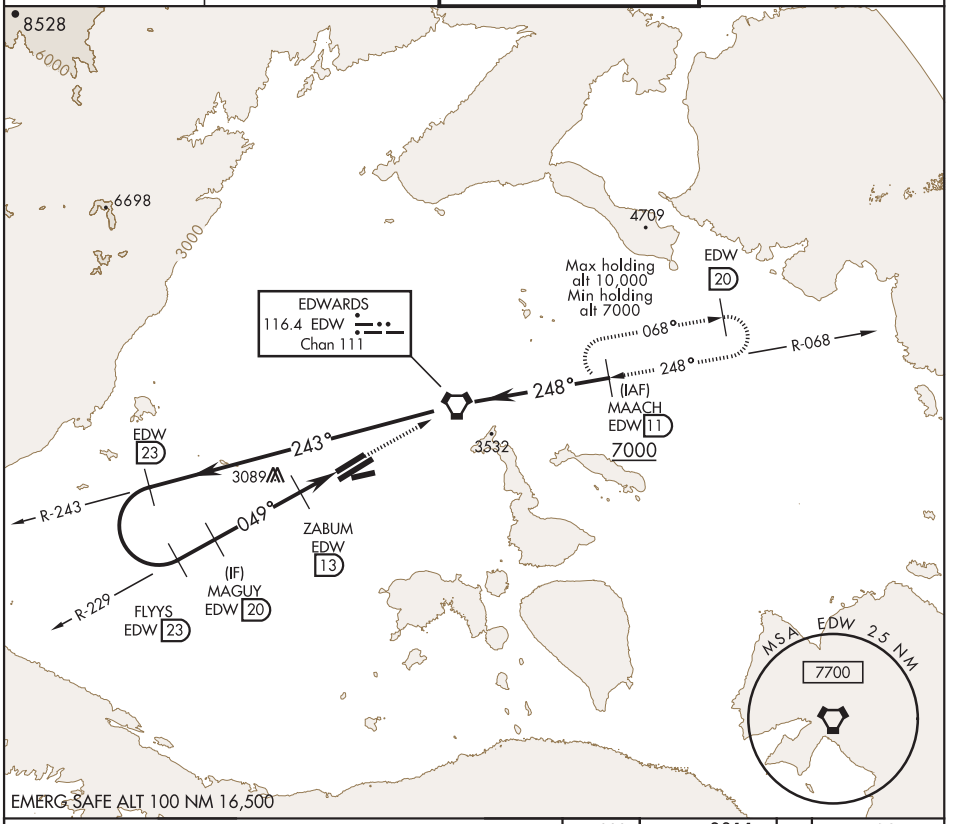
AL-500 [USAF]

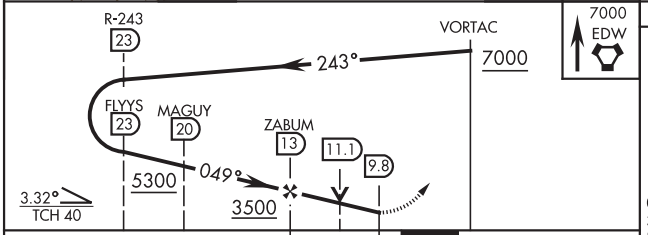
EDWARDS AFB (KEDW)

*Circling not authorized NW of Rwy 5L-23R.
Circling not authorized at night to Rwy 5L-23R.

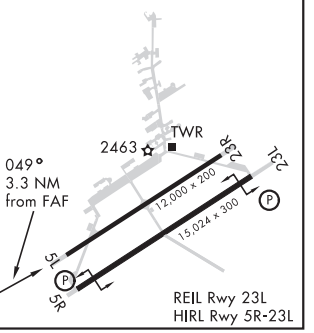
MISSED APPROACH: Proceed direct EDW VORTAC, then intercept EDW R-068 to MAACH and hold. Maintain 7000. Missed approach requires use of RNAV or ATC RADAR monitoring.

ATIS ★	SPORT APP CON	EDWARDS TOWER ★	GND CON
127.425 269.9	132.75 343.7	120.7 318.1	121.8 225.4





ELEV 2311 TDZE 2311



CATEGORY	A	B	C	D	E
S-5L	2840-1	529 (600-1)	2840-1½	529	(600-1½)
C CIRCLING*	2880-1	569 (600-1)	2880-1½ 569 (600-1½)	2880-2	569 (600-2)

EDWARDS, CALIFORNIA

34°55'N-117°53'W

EDWARDS AFB (KEDW)

Amdt 2 21MAY20

VOR/DME or TACAN RWY 5L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

EDWARDS, CALIFORNIA

VOR/DME or TACAN RWY 23R

VORTAC EDW 116.4 Chan 111	APCH CRS 229°	Rwy ldg 12,000 TDZE 2296 Arpt Elev 2311

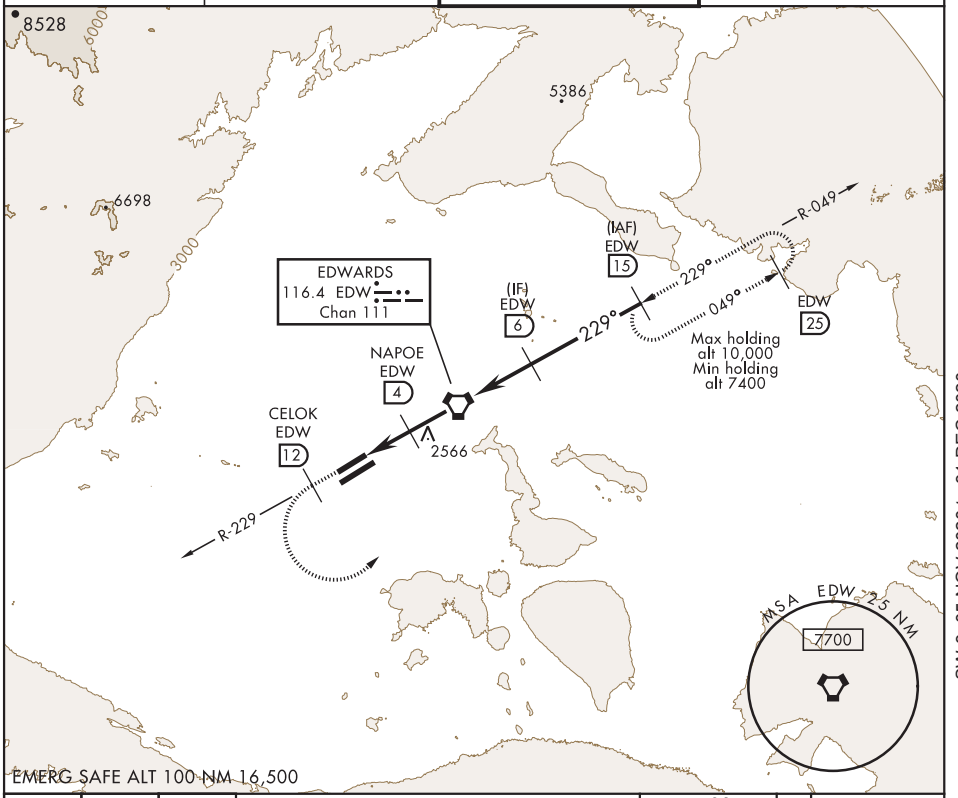
AL-500 [USAF]

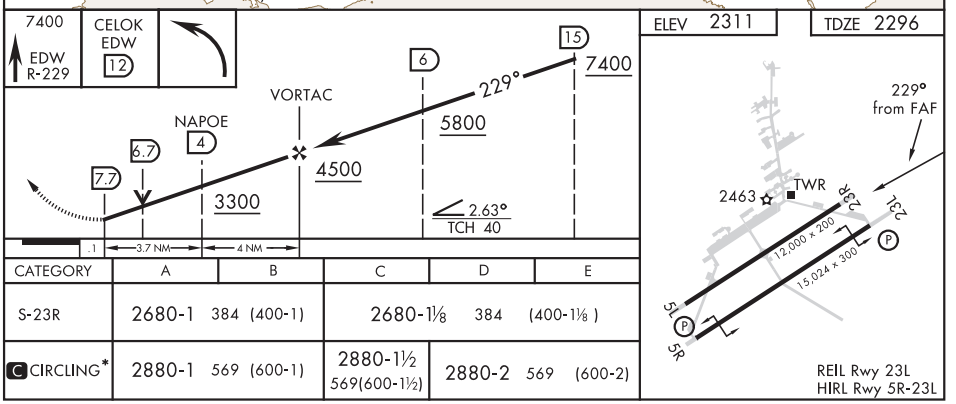
EDWARDS AFB (KEDW)

* Circling not authorized NW of Rwy 5L-23R.
Circling not authorized at night to Rwy 5L-23R.

MISSED APPROACH: Track EDW VORTAC R-229 outbound to CELOK, then turn left to EDW R-049/15 DME and hold. Maintain 7400. Missed approach requires use of RNAV or ATC RADAR monitoring.

ATIS ★	SPORT APP CON	EDWARDS TOWER ★	GND CON
127.425 269.9	132.75 343.7	120.7 318.1	121.8 225.4





CATEGORY	A	B	C	D	E
S-23R	2680-1 384 (400-1)		2680-1⅛ 384 (400-1⅛)		
C CIRCLING*	2880-1 569 (600-1)		2880-1½ 569(600-1½)	2880-2 569 (600-2)	

EDWARDS, CALIFORNIA

34°55'N-117°53'W

EDWARDS AFB (KEDW)

Admt 1 30JAN20

VOR/DME or TACAN RWY 23R

SW-3, 05 NOV 2020 to 31 DEC 2020

EDWARDS, CALIFORNIA

VOR/DME or TACAN Y RWY 5R

VORTAC EDW 116.4 Chan 111	APCH CRS 046°	Rwy ldg 15,024 TDZE 2303 Arpt Elev 2311

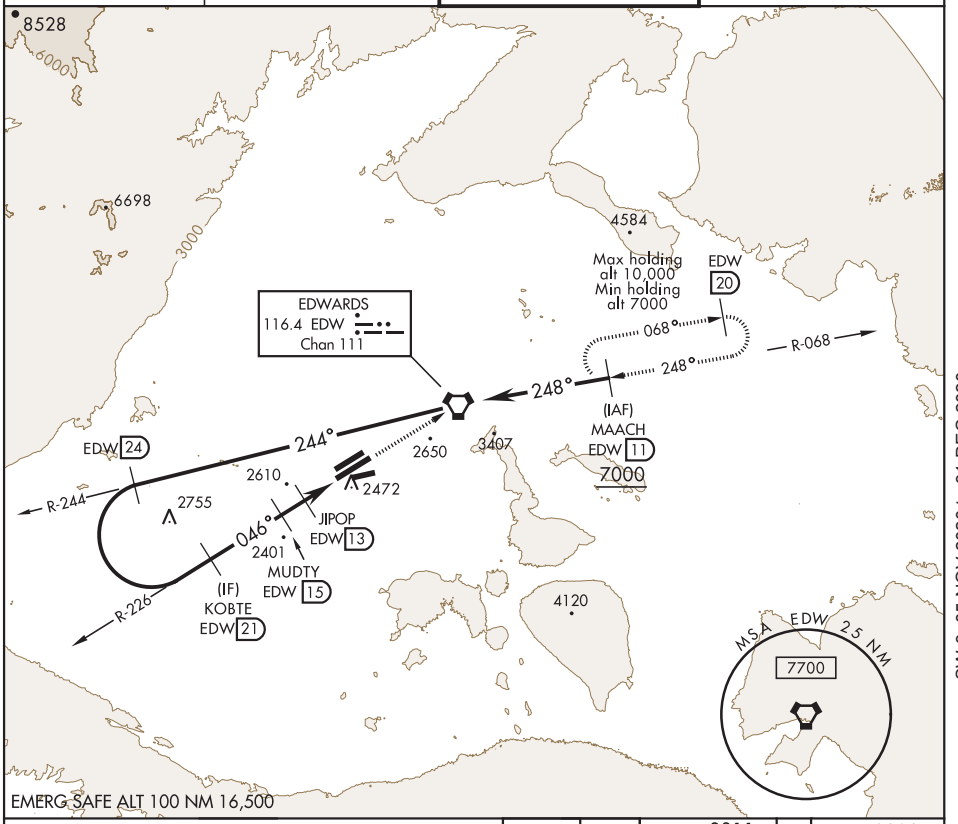
AL-500 [USAF]

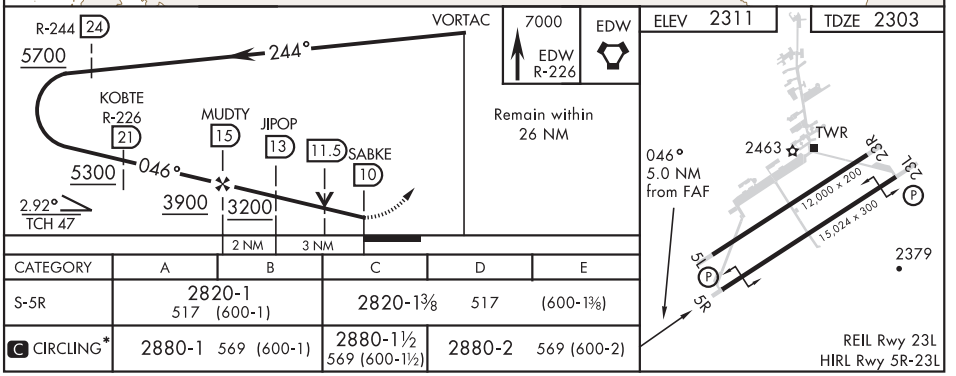
EDWARDS AFB (KEDW)

* Circling not authorized NW of Rwy 5L-23R.
Circling not authorized at night to Rwy 5L-23R.

MISSED APPROACH: Track EDW VORTAC R-226 to EDW. Intercept EDW R-068 to MAACH and hold. Maintain 7000. Missed approach requires use of RNAV or ATC radar monitoring.

ATIS ★	SPORT APP CON	EDWARDS TOWER ★	GND CON
127.425 269.9	132.75 343.7	120.7 318.1	121.8 225.4





CATEGORY	A	B	C	D	E
S-5R	2820-1 517 (600-1)		2820-1⅜ 517		(600-1⅜)
C CIRCLING*	2880-1 569 (600-1)		2880-1½ 569 (600-1½)	2880-2 569 (600-2)	

EDWARDS, CALIFORNIA

Amdt 3 23APR20

34°55'N-117°53'W

EDWARDS AFB (KEDW)

VOR/DME or TACAN Y RWY 5R

SW-3, 05 NOV 2020 to 31 DEC 2020

EDWARDS, CALIFORNIA

VOR/DME or TACAN Y RWY 23L

VORTAC EDW 116.4 Chan 111	APCH CRS 226°	Rwy ldg 15,024 TDZE 2286 Arpt Elev 2311

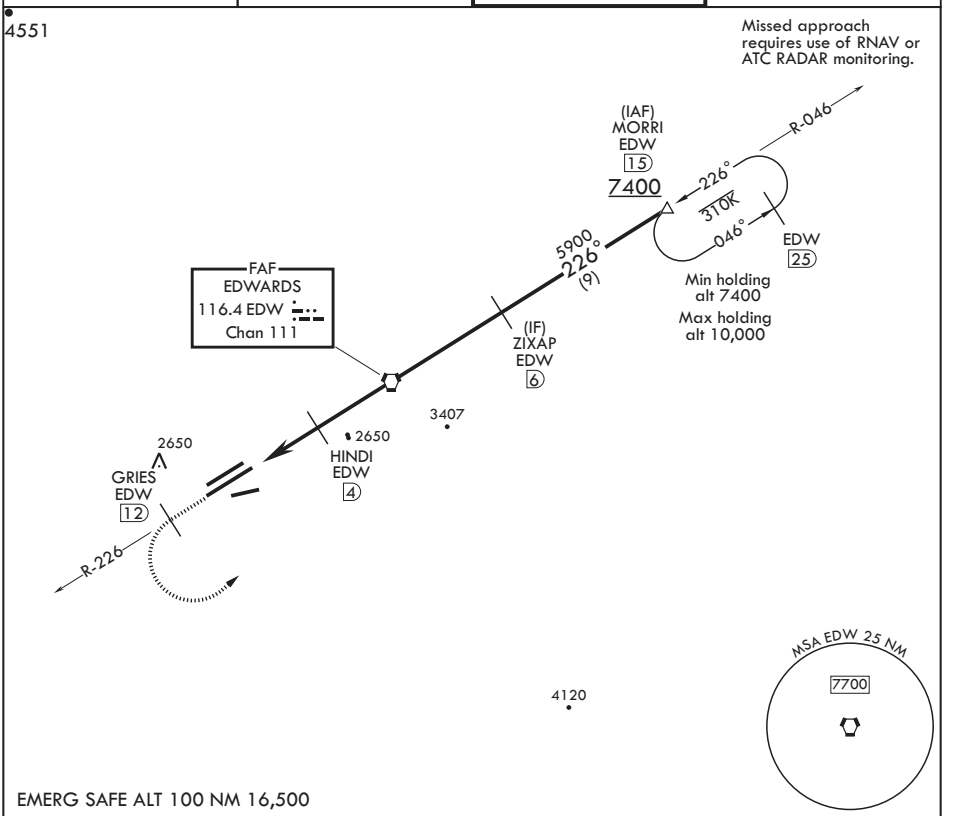
AL-500 (USAF)

EDWARDS AFB (KEDW)

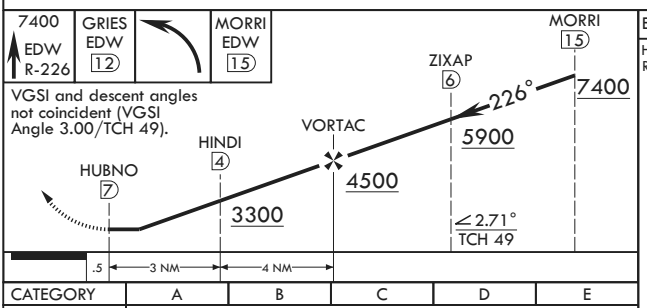
* Circling not authorized NW of Rwy 5L-23R. Circling not authorized at night to Rwy 5L-23R.

MISSED APPROACH: Climb to 7400. Track EDW VORTAC R-226 outbound to GRIES, then turn left direct MORRI and hold.

ATIS★	SPORT APP CON/DEP CON	TOWER★	GND CON
127.425 269.9	132.75 343.7	120.7 318.1	121.8 225.4

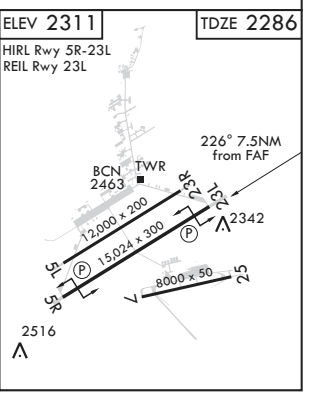


7400 EDW R-226	GRIES EDW 12	MORRI EDW 15



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 49).

CATEGORY	A	B	C	D	E
S-23L	2640-1		354	(400-1)	
C CIRCLING*	2880-1 569 (600-1)		2880-1½ 569 (600-1½)	2880-2 569 (600-2)	



EDWARDS, CALIFORNIA

34°55'N - 117°53'W

EDWARDS AFB (KEDW)

Amdt 2 23APR20

VOR/DME or TACAN Y RWY 23L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

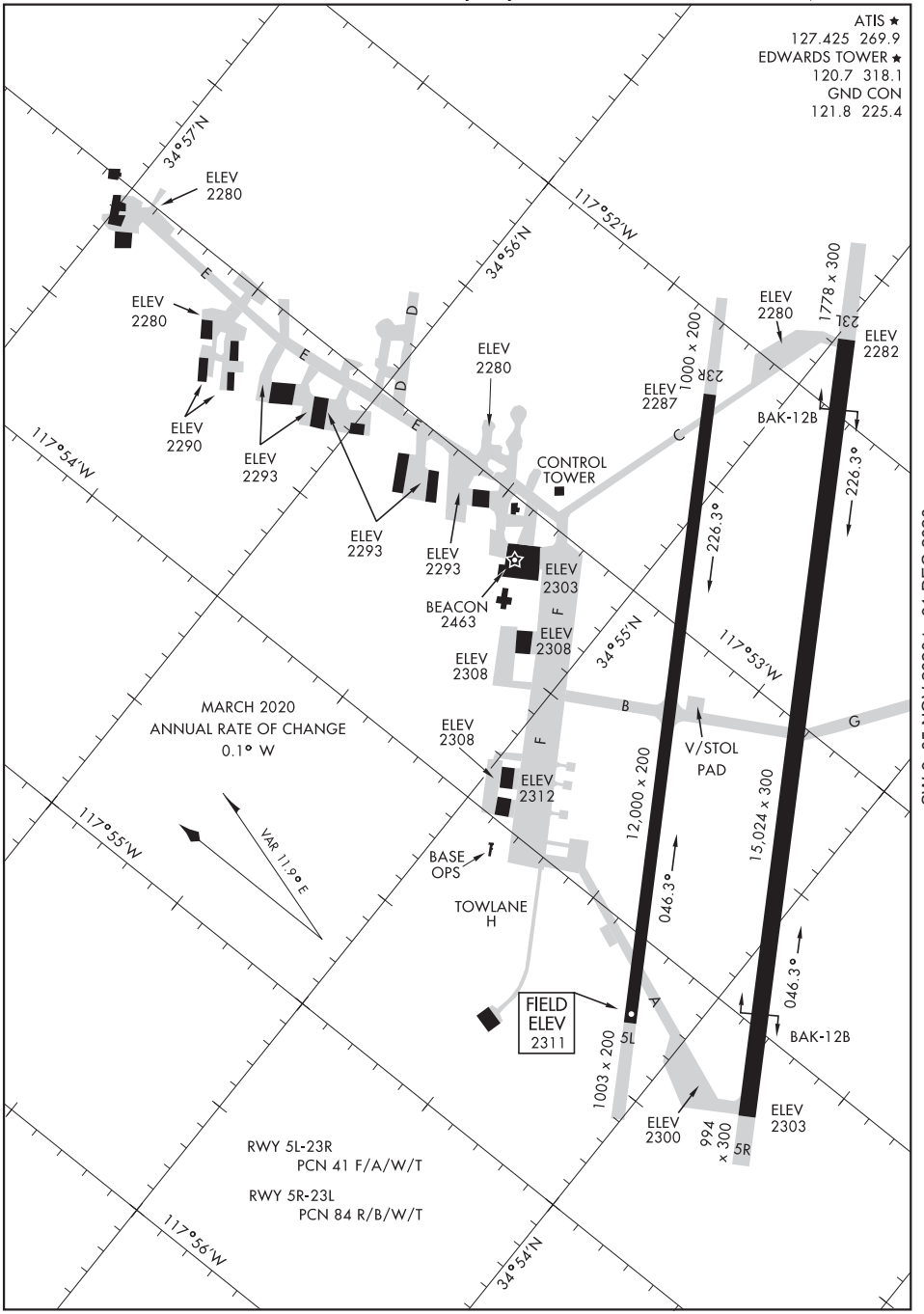
20086

AIRPORT DIAGRAM

AFD-500 [USAF]

EDWARDS AFB (KEDW)

EDWARDS, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

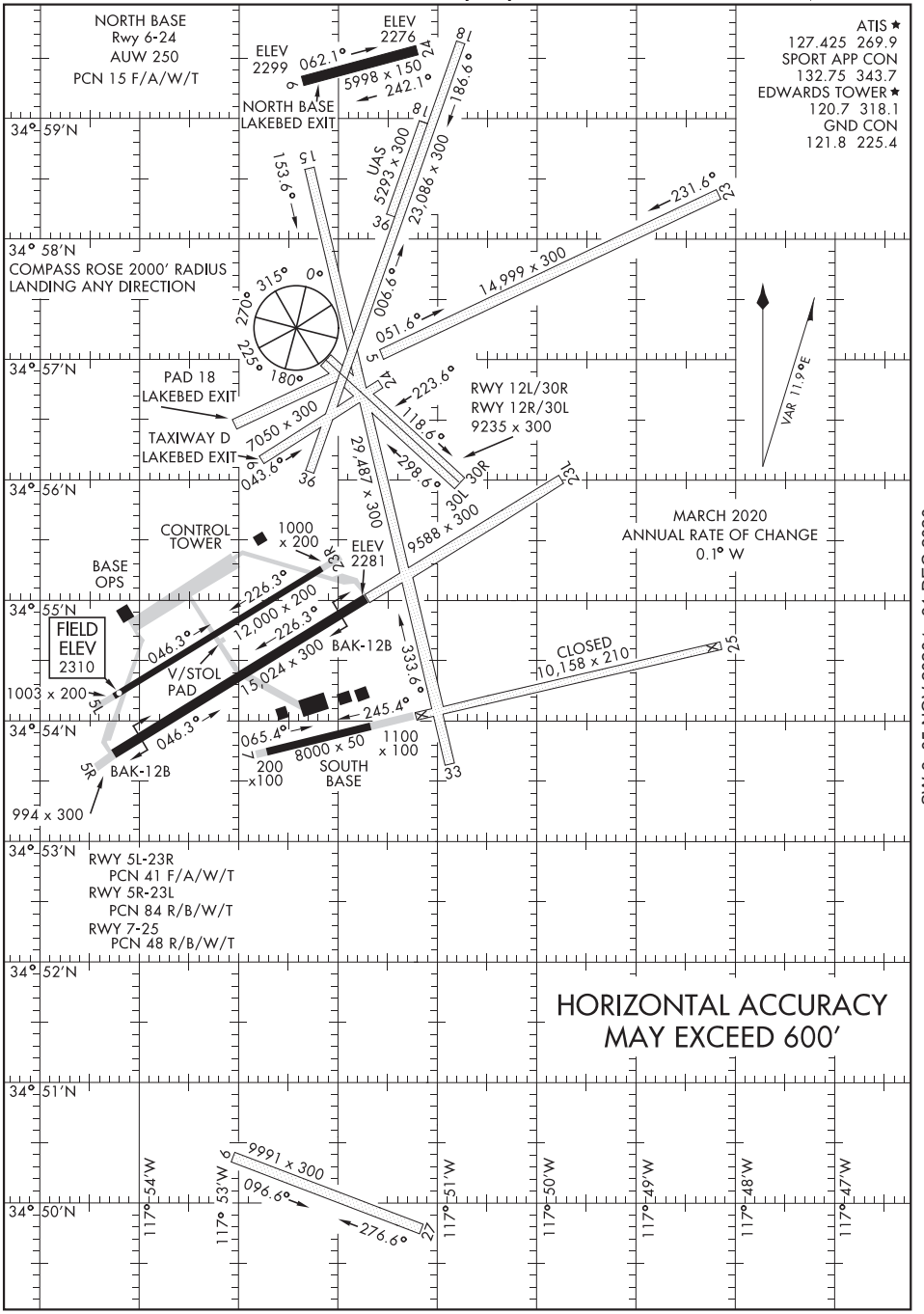
AIRPORT DIAGRAM

EDWARDS, CALIFORNIA
EDWARDS AFB (KEDW)

AIRPORT DIAGRAM

AFD-500 [USAF]

EDWARDS, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
EDWARDS, CALIFORNIA
EDWARDS/ROGERS LAKEBED (KEDW)

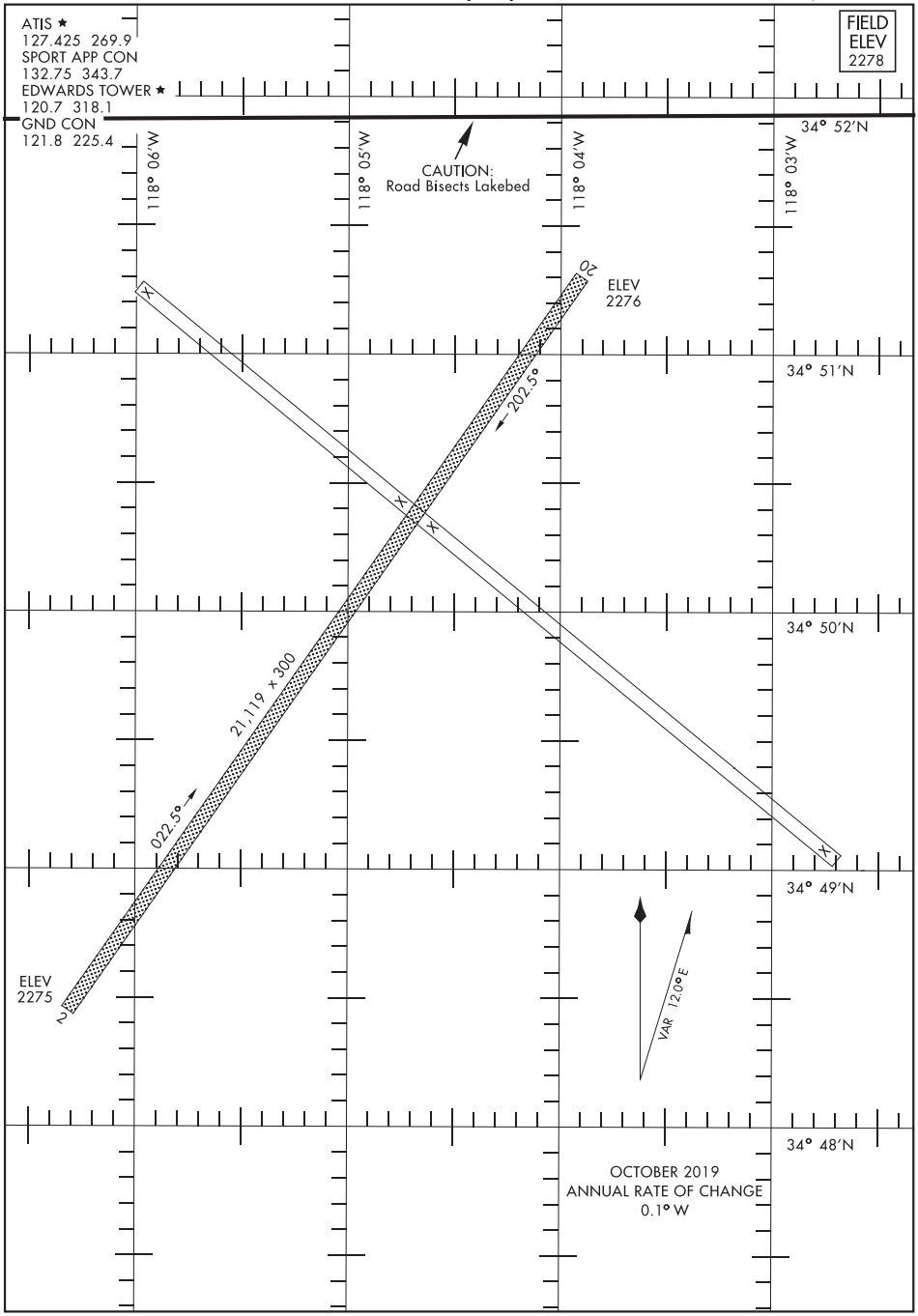
19283

AIRPORT DIAGRAM

EDWARDS/ROSAMOND LAKEBED (KEDW)

AFD-500 [USAF]

EDWARDS, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

EDWARDS, CALIFORNIA

EDWARDS/ROSAMOND LAKEBED (KEDW)

EL CENTRO, CALIFORNIA

RNAV (GPS) RWY 26

APCH CRS	Rwy ldg	9503
259°	TDZE	-45
	Arpt Elev	-42

AL-472 [USN]

EL CENTRO NAF (VRACIU FLD) (KNJK)

DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.

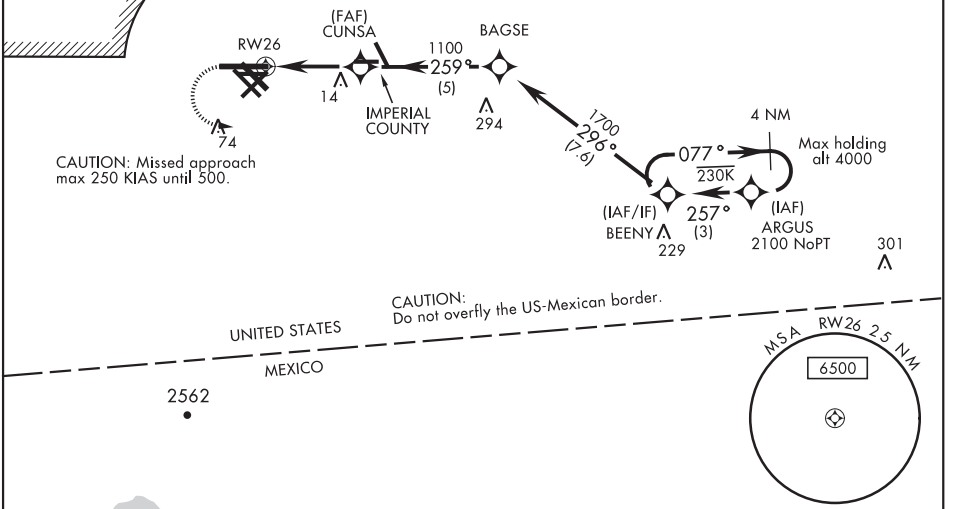
MISSED APPROACH: Climb to 500, then climbing left turn to 2100 direct BEENY and hold.

ATIS ★	LOS ANGELES CENTER	EL CENTRO TOWER ★	GND CON	CLNC DEL
269.275	128.6 291.7	119.1 360.2	121.9 254.35	340.2

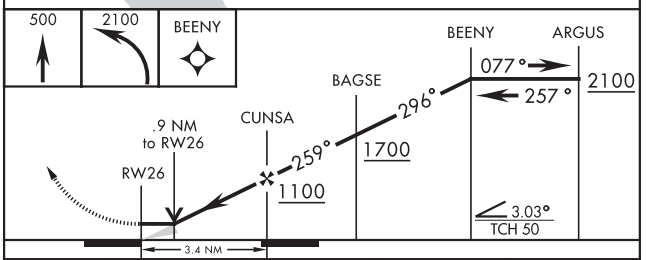
NOTE: Aircraft inbound from East use ARGUS straight-in. Aircraft inbound from West use BEENY, requires holding.

R-2510

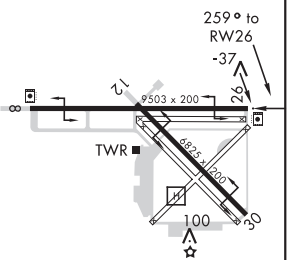
CAUTION: Extensive civil aircraft operations at Imperial County airport.



EMERG SAFE ALT 100 NM 17,100



ELEV -42	TDZE -45



CATEGORY	A	B	C	D
LNAV MDA	300-1 346 (400-1)			
C CIRCLING	420-1 462 (500-1)		420-1½ 462 (500-1½)	520-2 562 (600-2)

HIRL Rwys 8-26, 12-30

EL CENTRO, CALIFORNIA
Amdt 5 18JUN20

32°50'N-115°40'W

EL CENTRO NAF (VRACIU FLD) (KNJK)

RNAV (GPS) RWY 26

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

EL CENTRO, CALIFORNIA

RNAV (GPS) RWY 30

APCH CRS	Rwy ldg	6825
304°	TDZE	-42
	Arpt Elev	-42

AL-472 [USN]

EL CENTRO NAF (VRACIU FLD) (KNJK)

DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 500, then climbing left turn to 2100 direct BEENY and hold.

ATIS ★	LOS ANGELES CENTER	EL CENTRO TOWER ★	GND CON	CLNC DEL
269.275	128.6 291.7	119.1 360.2	121.9 254.35	340.2

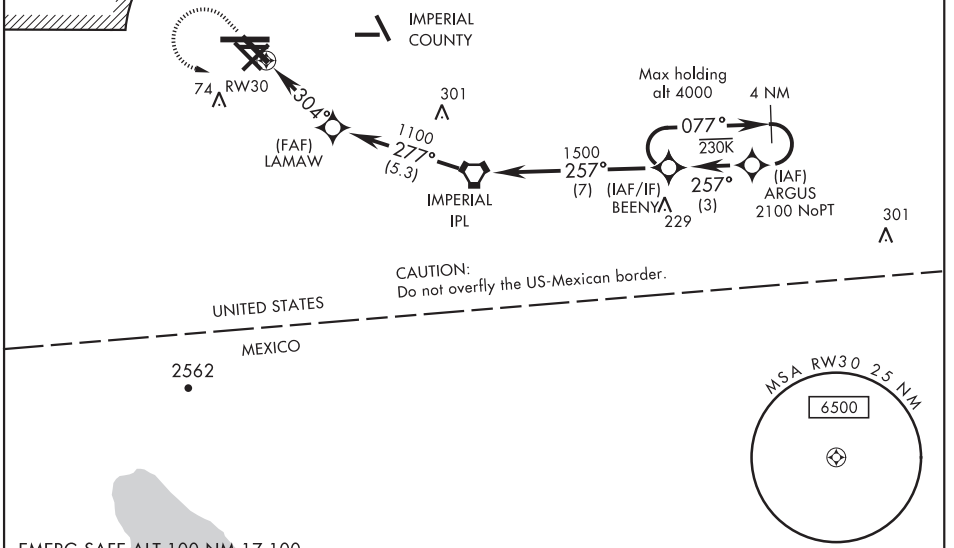
CAUTION:
Extensive civil aircraft operations at Imperial County airport.

20:1 visual area penetrated by fence, lit, 289' from thld, 213' right of course, 8 AGL/-34 MSL ; 199' from thld, 305' right of course, 8 AGL/-34 MSL; 504' from thld, 3' right of course, 8 AGL/-34 MSL.

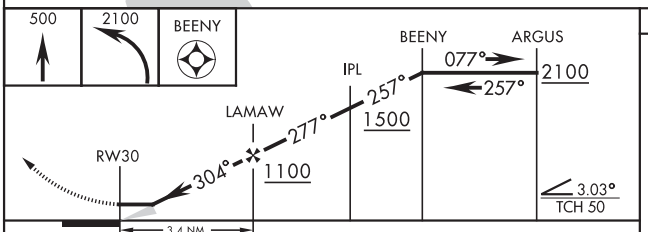
NOTE: Aircraft inbound from East use ARGUS straight-in. Aircraft inbound from West use BEENY, requires holding.

R-2510

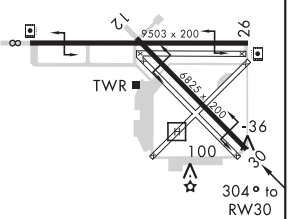
CAUTION: Missed Approach max 250 KIAS until 500.



EMERG SAFE ALT 100 NM 17,100



ELEV -42 TDZE -42



CATEGORY	A	B	C	D
LNAV MDA	360-1 402 (500-1)		360-1⅛ 402 (500-1⅛)	
C CIRCLING	420-1 462 (500-1)		420-1½ 462 (500-1½)	520-2 562 (600-2)

HIRL Rwys 8-26, 12-30

32°50'N-115°40'W

SW-3, 05 NOV 2020 to 31 DEC 2020

EL CENTRO, CALIFORNIA

VOR/DME RWY 30

VORTAC IPL 115.9 Chan 106	APCH CRS 284°	Rwy ldg 6825 TDZE -42 Arpt Elev -42

AL-472 [USN]

EL CENTRO NAF (VRACIU FLD) (KNJK)

Visibility reduction by helicopters NA.

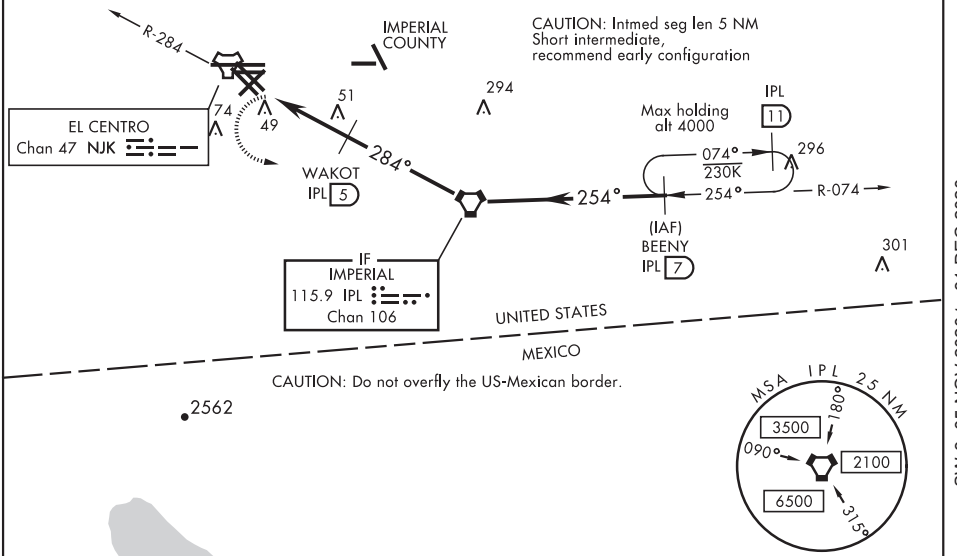
MISSED APPROACH: Climb to 600, then climbing left turn to 2000, intercept IPL VORTAC R-074 to BEENY and hold.

ATIS ★	LOS ANGELES CENTER	EL CENTRO TOWER ★	GND CON	CLNC DEL
269.275	128.6 291.7	119.1 360.2	121.9 254.35	340.2

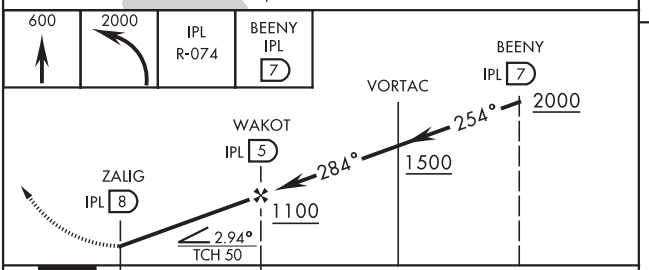
RWY 30: 20:1 visual area penetrated by
Fence, lit, 289 ft from thld, 213 ft right of course, 8 AGL/-34 MSL
Fence, 199 ft from thld, 305 ft right of course, 8 AGL/-34 MSL,
Fence, 504 ft from thld, 3 ft right of course, 8 AGL/-34 MSL,

CAUTION: Extensive civil aircraft operations at Imperial County airport.

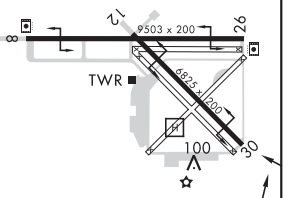
CAUTION: Intmed seg len 5 NM
Short intermediate,
recommend early configuration



EMERG SAFE ALT 100 NM 17,100 from NJK TACAN



ELEV -42 TDZE -42



284° 3.5 NM from FAF

HIRL Rwys 8-26, 12-30

CATEGORY	A	B	C	D
S-30	340-1 382 (400-1)		340-1⅛ 382 (400-1⅛)	
C CIRCLING	420-1 462 (500-1)		420-1½ 462 (500-1½)	520-2 562 (600-2)

FAF to MAP 3.0 NM					
Knots	60	90	120	150	180
Min:Sec	3:00	2:00	1:30	1:12	1:00

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20198

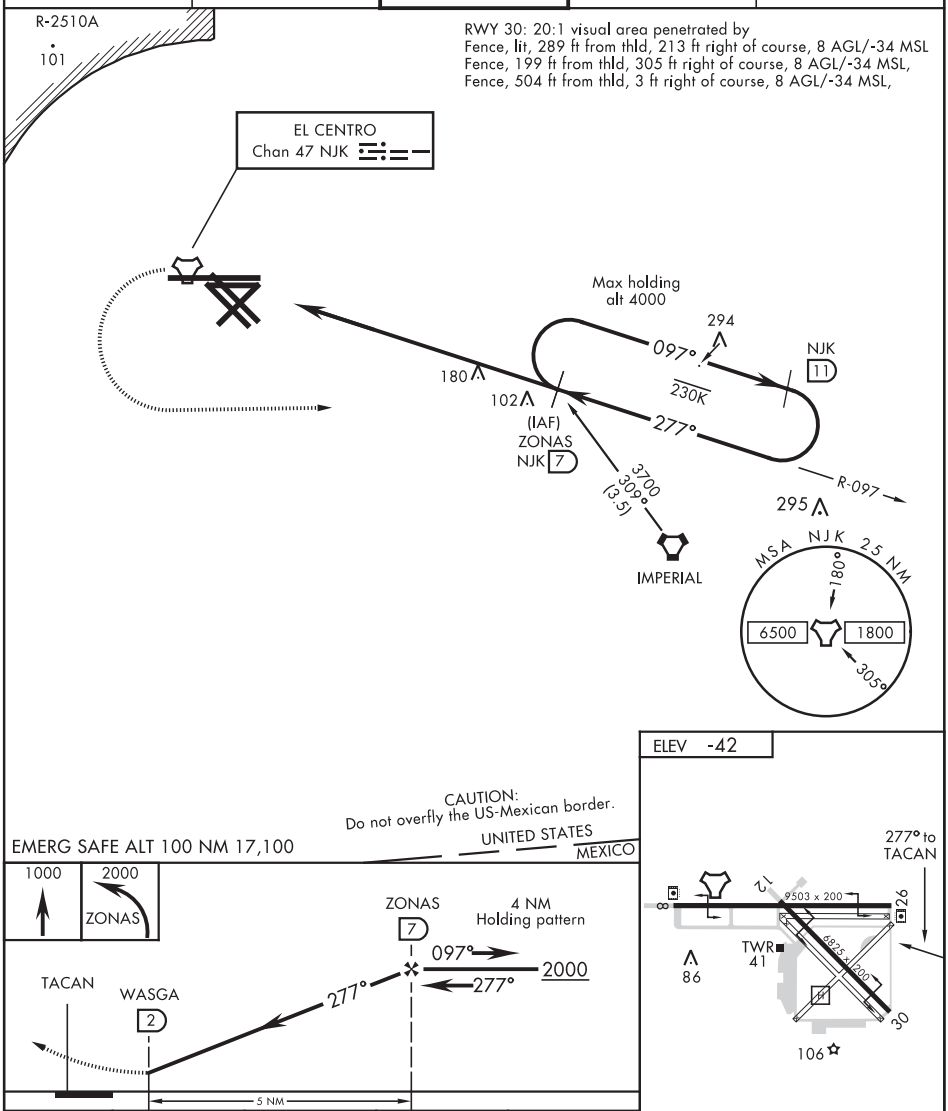
EL CENTRO, CALIFORNIA

TACAN-A

TACAN NJK Chan **47**	APCH CRS **277°**	Rwy ldg **N/A** TDZE **N/A** Arpt Elev **-42**	AL-472 [USN]	EL CENTRO NAF (VRACIU FLD) (KNJK)

MISSED APPROACH: Climb to 1000, then climbing left turn to 2000 direct ZONAS and hold.

ATIS ★	LOS ANGELES CENTER	EL CENTRO TOWER ★	GND CON	CLNC DEL
269.275	**128.6 291.7**	**119.1 360.2**	**121.9 254.35**	**340.2**



CATEGORY	A	B	C	D
CIRCLING	480-1 522 (600-1)		480-1½ 522 (600-1½)	520-2 562 (600-2)

HIRL Rwys 8-26, 12-30

SW-3, 05 NOV 2020 to 31 DEC 2020

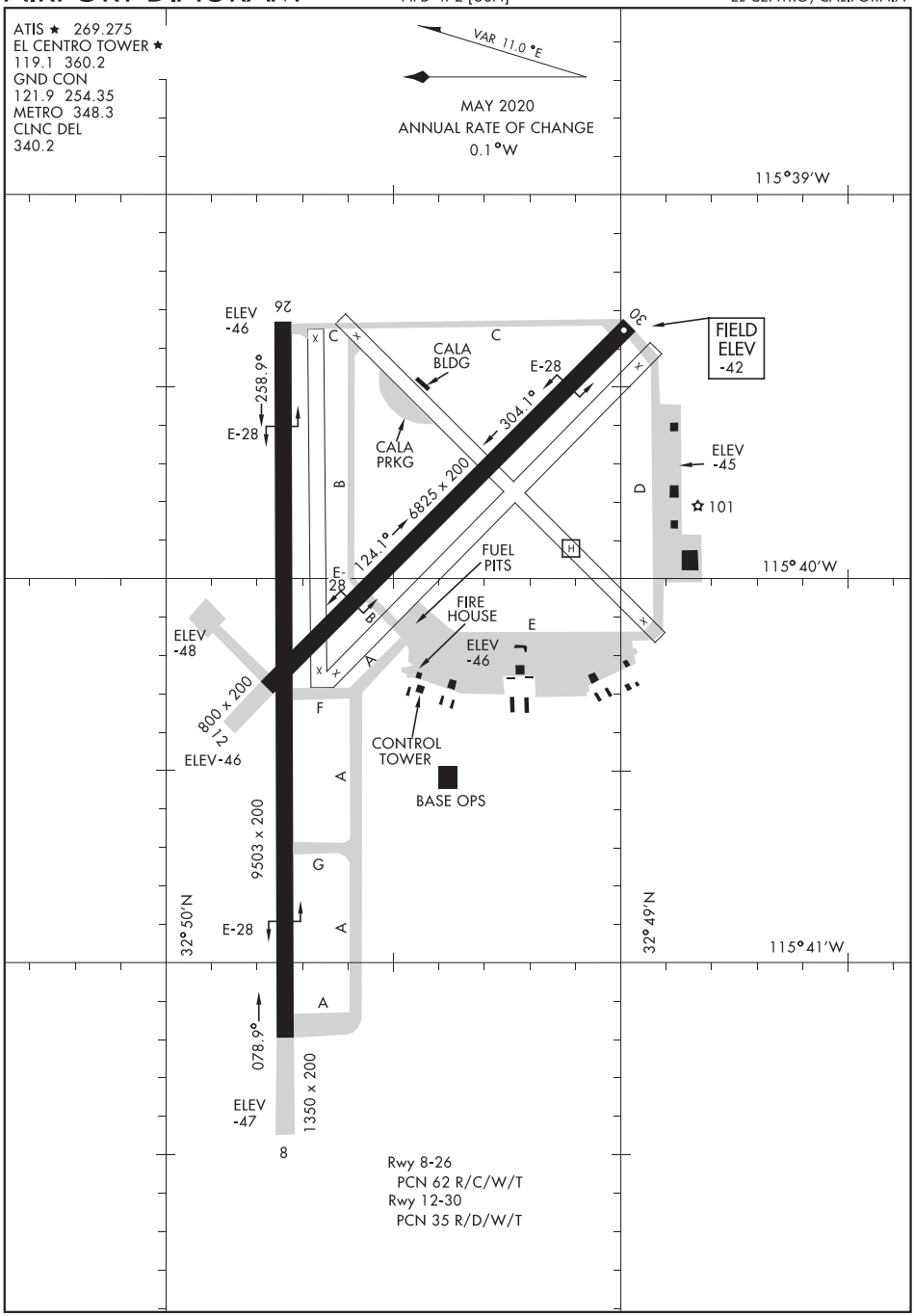
SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

EL CENTRO NAF (VRACIU FLD) (KNJK)

AFD-472 [USN]

EL CENTRO, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

EL CENTRO, CALIFORNIA

EL CENTRO NAF (VRACIU FLD) (KNJK)

EL MONTE, CALIFORNIA | AL-5639 (FAA) | 20310

APP CRS	Rwy Idg	N/A
096°	TDZE	N/A
	Apt Elev	296

RNAV (GPS)-B
SAN GABRIEL VALLEY (EMT)

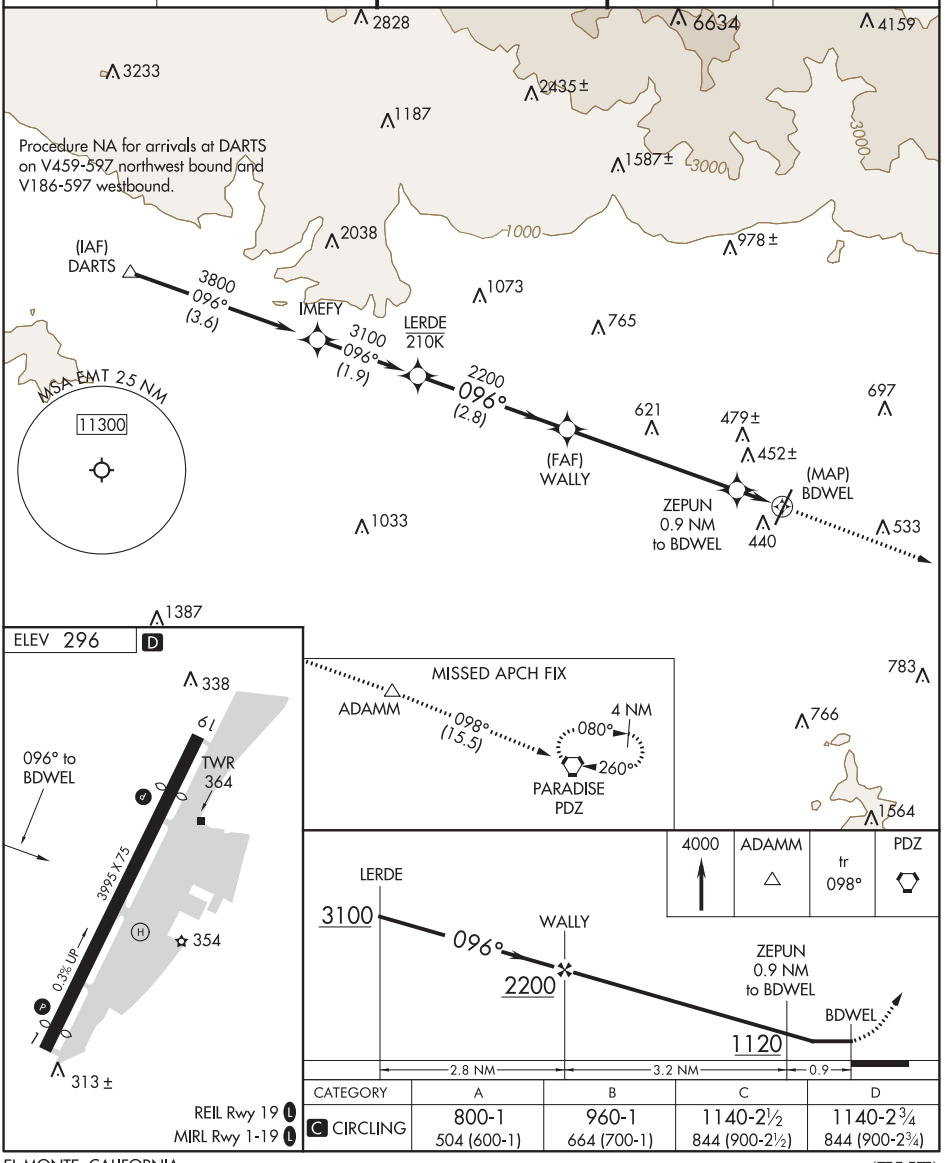
RNP APCH.

NA

Circling Rwy 1 NA at night.

MISSED APPROACH: Climb to 4000 direct ADAMM and on track 098° to PDZ VORTAC and hold.

ATIS	SOCAL APP CON	EL MONTE TOWER ★	GND CON	UNICOM
118.75	125.5 318.2	121.2 (CTAF) L	125.9	122.95



REIL Rwy 19 L
MIRL Rwy 1-19 L

CATEGORY	A	B	C	D
C CIRCLING	800-1 504 (600-1)	960-1 664 (700-1)	1140-2½ 844 (900-2½)	1140-2¾ 844 (900-2¾)

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC POM	APP CRS	Rwy Idg	N/A
110.4	258°	TDZE	N/A
Chan 41		Apt Elev	296

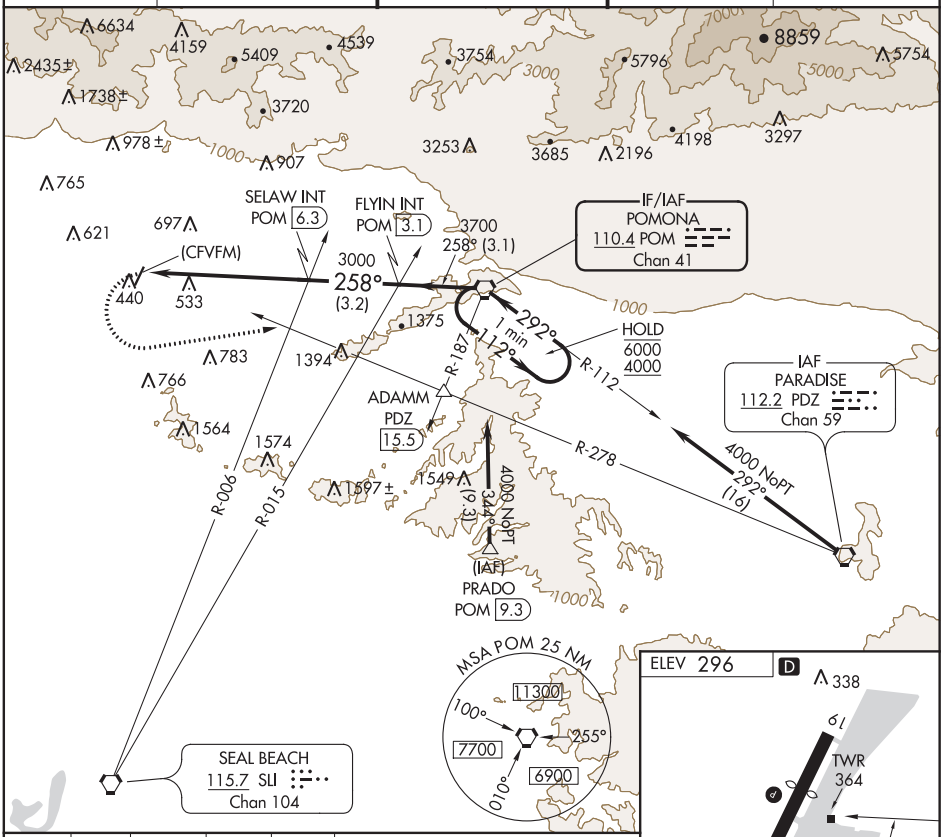
VOR-A

SAN GABRIEL VALLEY (EMT)

Circling Rwy 1 NA at night. When local altimeter setting not received, use Ontario Intl altimeter setting and increase all MDA 160 feet.

MISSED APPROACH: Climbing left turn to 2500 on heading 070° and PDZ VORTAC R-278 to ADAMM INT/PDZ 15.5 DME then continue climb to 4000 to PDZ VORTAC.

ATIS	SOCAL APP CON	EL MONTE TOWER ★	GND CON	UNICOM
118.75	125.5 318.2	121.2 (CTAF) L	125.9	122.95



CATEGORY	A	B	C	D
C CIRCLING	1280-1¼ 984 (1000-1¼)	1280-1½ 984 (1000-1½)	1280-3 984 (1000-3)	1320-3 1024 (1100-3)

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

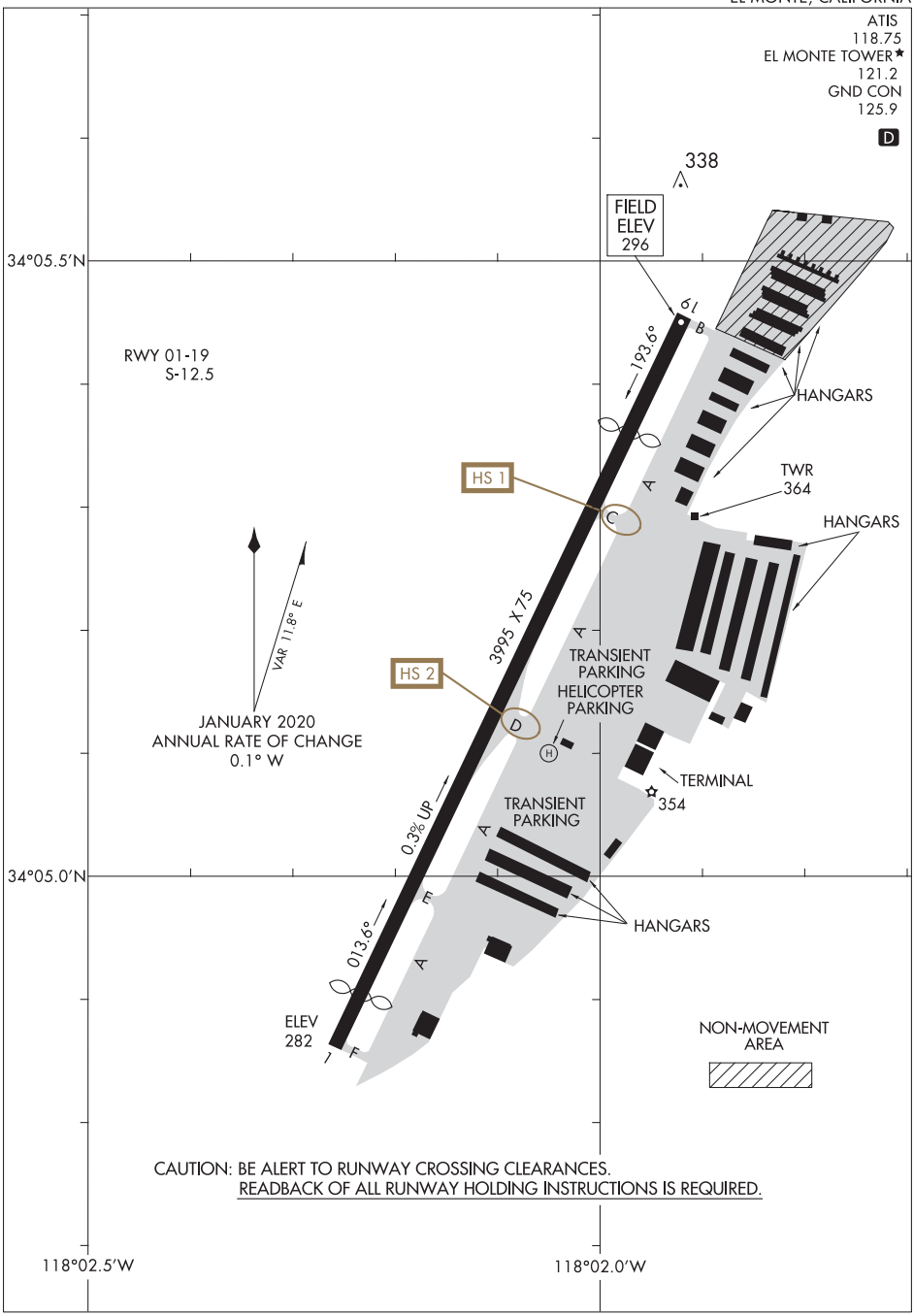
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-5639 (FAA)

SAN GABRIEL VALLEY (EMT)
EL MONTE, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086

EL MONTE, CALIFORNIA
SAN GABRIEL VALLEY (EMT)

APP CRS	Rwy Idg	2160
181°	TDZE	708
	Apt Elev	708

GPS RWY 18

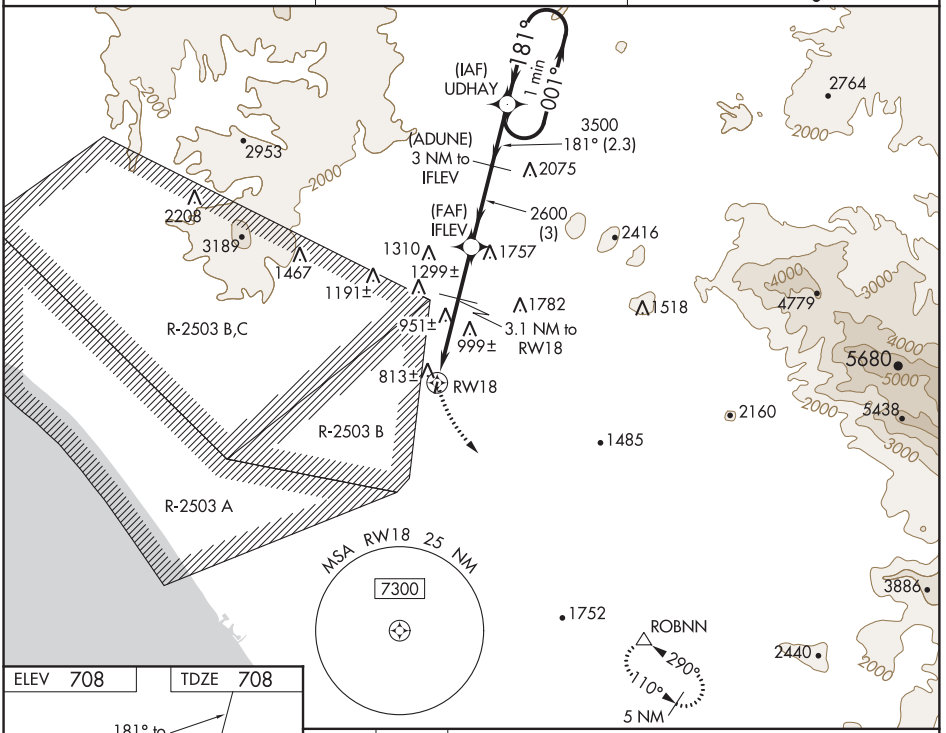
FALLBROOK COMMUNITY AIRPARK (L18)

T
NA

Circling NA west of Rwy 18-36.
Obtain local altimeter setting on CTAF; when not received, use MCAS Miramar altimeter setting minimums.

MISSED APPROACH: Climbing left turn to 5000 direct ROBNN WP and hold.

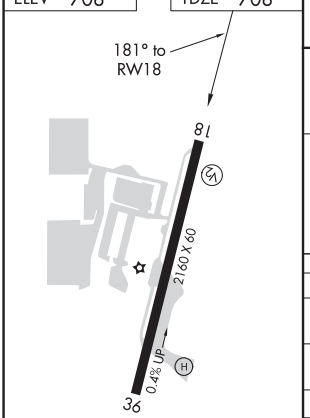
AWOS-3P	SOCAL APP CON	CTAF
118.425	127.3 323.0	123.05 L



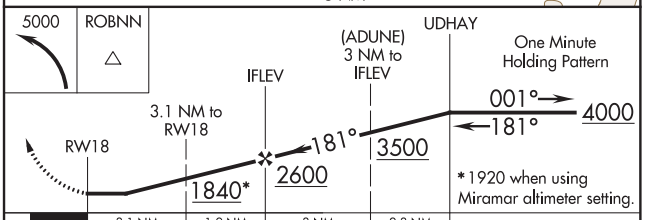
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ELEV 708	TDZE 708



MIRL Rwy 18-36 L



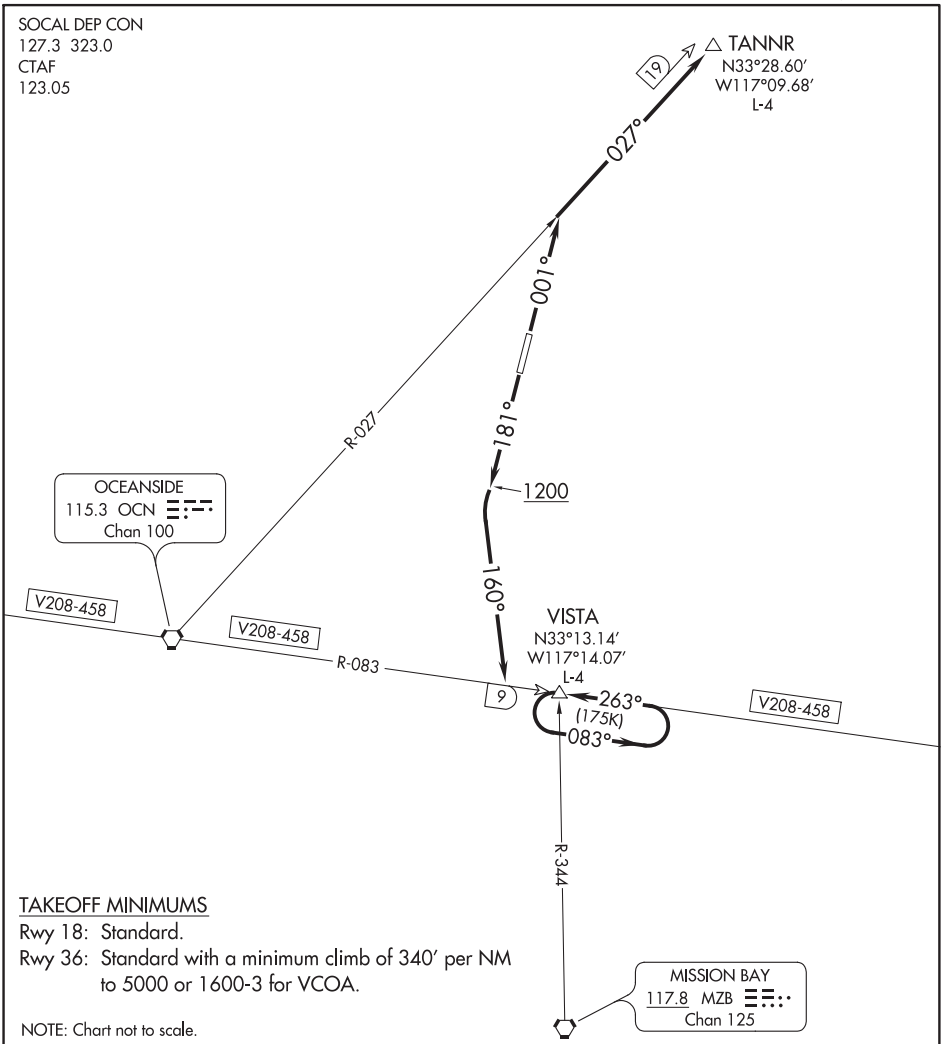
CATEGORY	A	B	C	D
S-18	1260-1	552 (600-1)	NA	
CIRCLING	1260-1	552 (600-1)	NA	
MCAS MIRAMAR ALTIMETER SETTING MINIMUMS				
S-18	1360-1	652 (700-1)	NA	
CIRCLING	1360-1	652 (700-1)	NA	

(FALL1.VISTA) 16315

SL-6879 (FAA)

FALLBROOK ONE DEPARTURE (OBSTACLE)

FALLBROOK COMMUNITY AIRPARK (L18)
FALLBROOK, CALIFORNIA



TAKEOFF MINIMUMS

Rwy 18: Standard.

Rwy 36: Standard with a minimum climb of 340' per NM to 5000 or 1600-3 for VCOA.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 18: Climb heading 181° to 1200, then climbing left turn on heading 160° to join V208-458. Aircraft westbound proceed on course, aircraft eastbound on V208-458 continue climb in VISTA holding pattern to 5000 before proceeding on course.

TAKEOFF RUNWAY 36: Climb heading 001° to intercept OCN VORTAC R-027 to TANNR INT before proceeding on course or, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Fallbrook Community Airpark at or above 2200, then proceed on OCN VORTAC R-027 to TANNR INT before proceeding on course.

RNAV (GPS) RWY 24

FULLERTON MUNI (FUL)

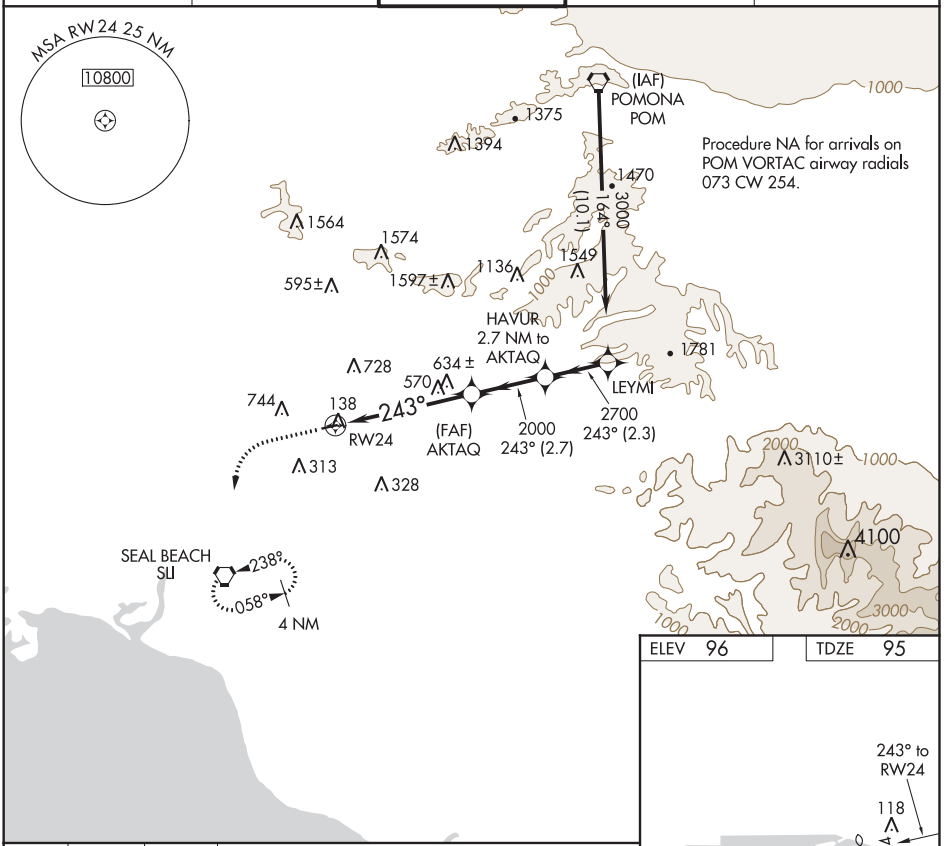
APP CRS	Rwy Idg	2868
243°	TDZE	95
	Apt Elev	96

RNP APCH.

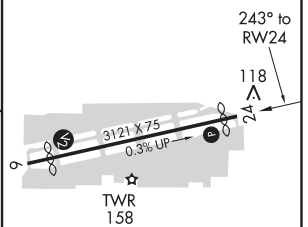
Inoperative table does not apply.
NA Helicopter visibility reduction below 1 SM NA.

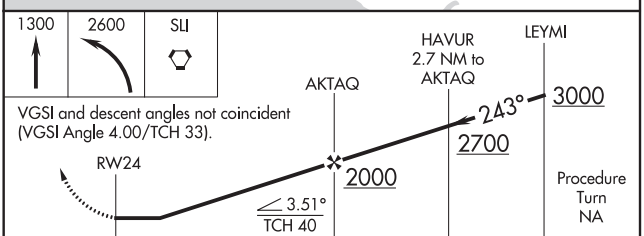
MISSED APPROACH: Climb to 1300, then climbing left turn to 2600 direct SLI VORTAC and hold.

ATIS	SOCAL APP CON	FULLERTON TOWER*	GND CON	UNICOM
125.05	125.35 316.125	119.1 (CTAF) L	121.8	122.95



ELEV	96	TDZE	95





CATEGORY	A	B	C	D
LNAV MDA	900-1 805 (900-1)	900-1¼ 805 (900-1¼)	NA	

MIRL Rwy 6-24 L
REIL Rwys 6 and 24 L
RLLS Rwy 24 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

FULLERTON, CALIFORNIA | AL-5136 (FAA) | 19227

LOC/DME I-FUL	APP CRS	Rwy Idg	2868
108.9	243°	TDZE	95
Chan 26		Apt Elev	96

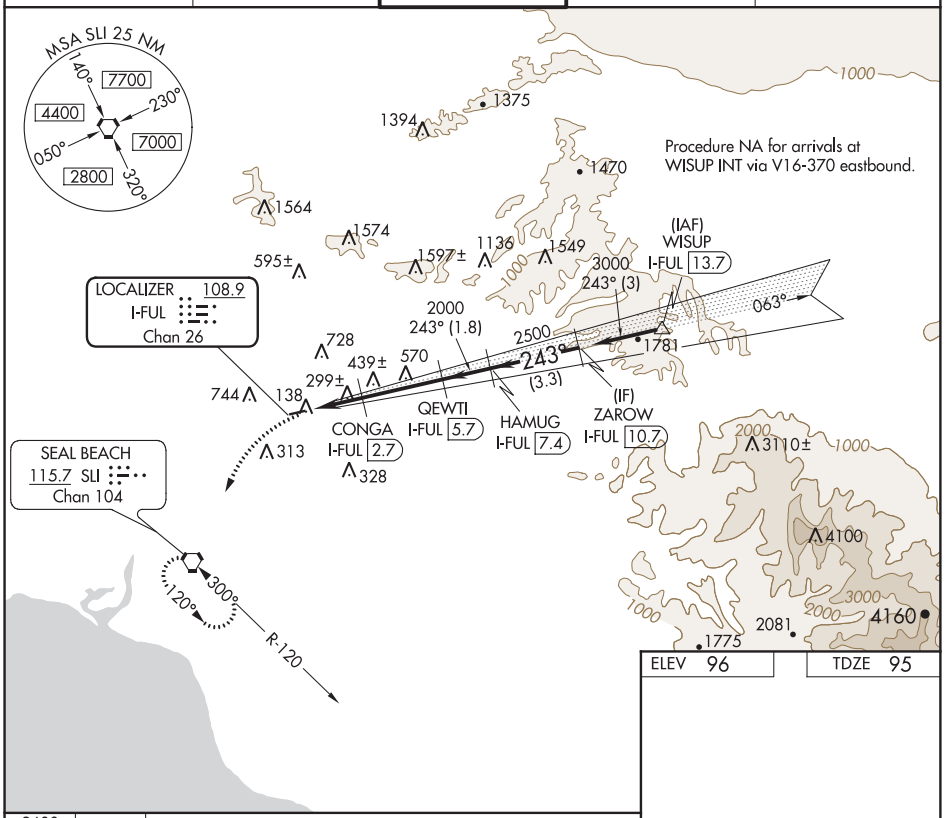
LOC/DME RWY 24

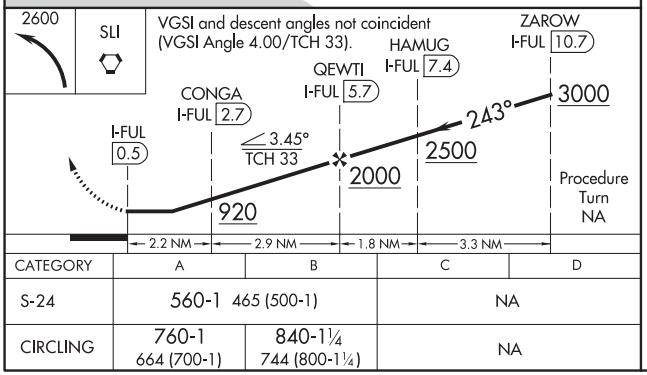
FULLERTON MUNI (FUL)

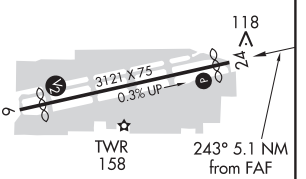
Inoperative table does not apply.
Night landing: Rwy 6 NA.
Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 2600 direct SLI VORTAC and hold.

ATIS	SOCAL APP CON	FULLERTON TOWER★	GND CON	UNICOM
125.05	125.35 316.125	119.1 (CTAF) L	121.8	122.95







CATEGORY	A	B	C	D
S-24	560-1 465 (500-1)		NA	
CIRCLING	760-1 664 (700-1)	840-1¼ 744 (800-1¼)	NA	

MIRL Rwy 6-24 L
REIL Rwys 6 and 24 L
RLLS Rwy 24 L

FULLERTON, CALIFORNIA
Orig-B 26MAY16

33°52'N-117°59'W

FULLERTON MUNI (FUL)

LOC/DME RWY 24

SW-3, 05 NOV 2020 to 31 DEC 2020

VOR-A

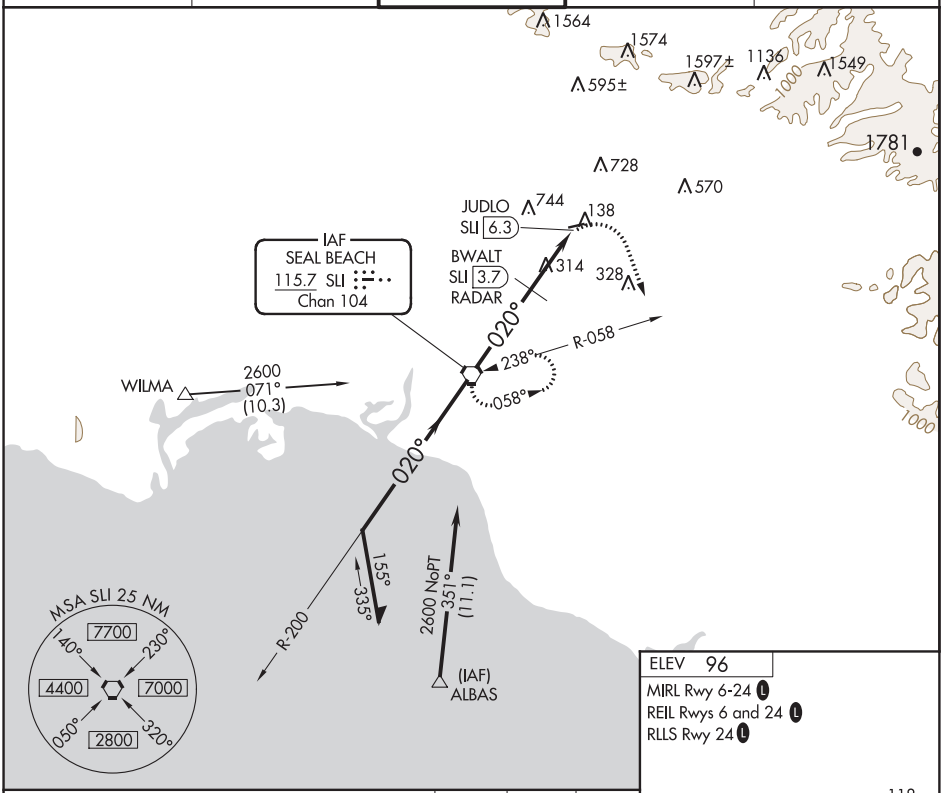
FULLERTON MUNI (FUL)

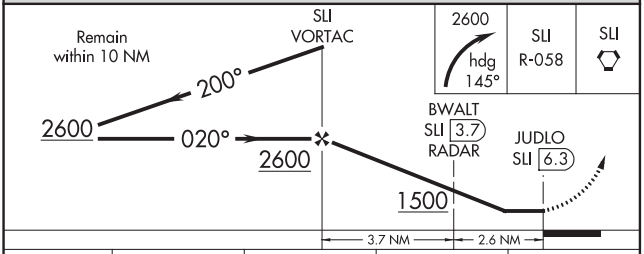
VORTAC SLI	APP CRS	Rwy Idg	N/A
115.7	020°	TDZE	N/A
Chan 104		Apt Elev	96

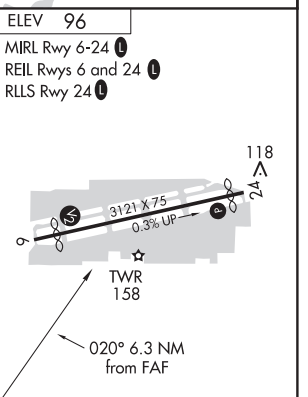
Maximum entry altitude 6000.
Night landing: Rwy 6 NA.
Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 2600 via heading 145° and SLI R-058 to SLI VORTAC and hold.

ATIS	SOCAL APP CON	FULLERTON TOWER★	GND CON	UNICOM
125.05	125.35 316.125	119.1 (CTAF) L	121.8	122.95







CATEGORY	A	B	C	D
CIRCLING	1500-1¼ 1404 (1500-1¼)	1500-1½ 1404 (1500-1½)	NA	
BWALT FIX MINIMUMS				
CIRCLING	760-1 664 (700-1)	840-1¼ 744 (800-1¼)	NA	

FAF to MAP 6.3 NM

Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

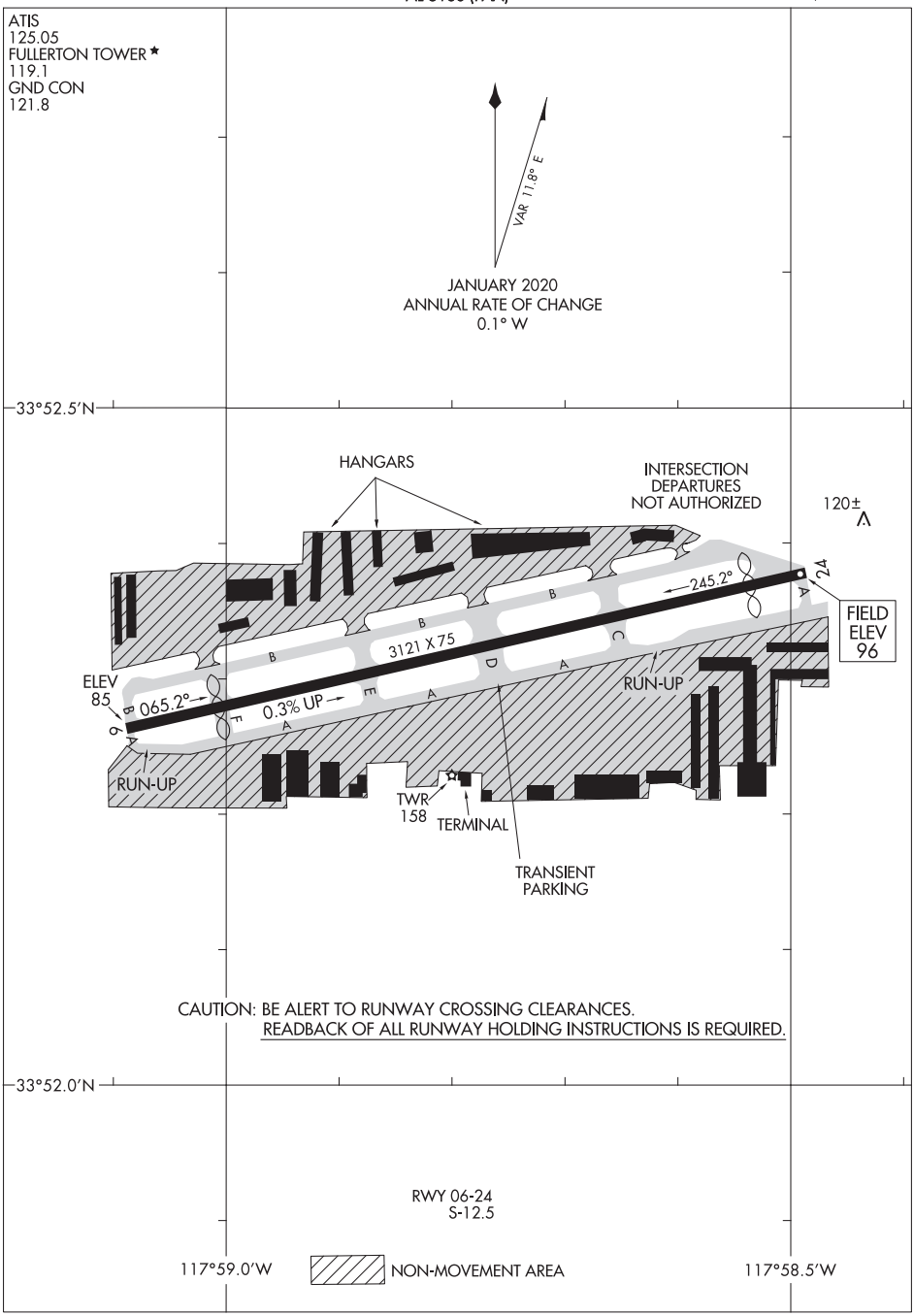
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-5136 (FAA)

FULLERTON MUNI (FUL)
FULLERTON, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

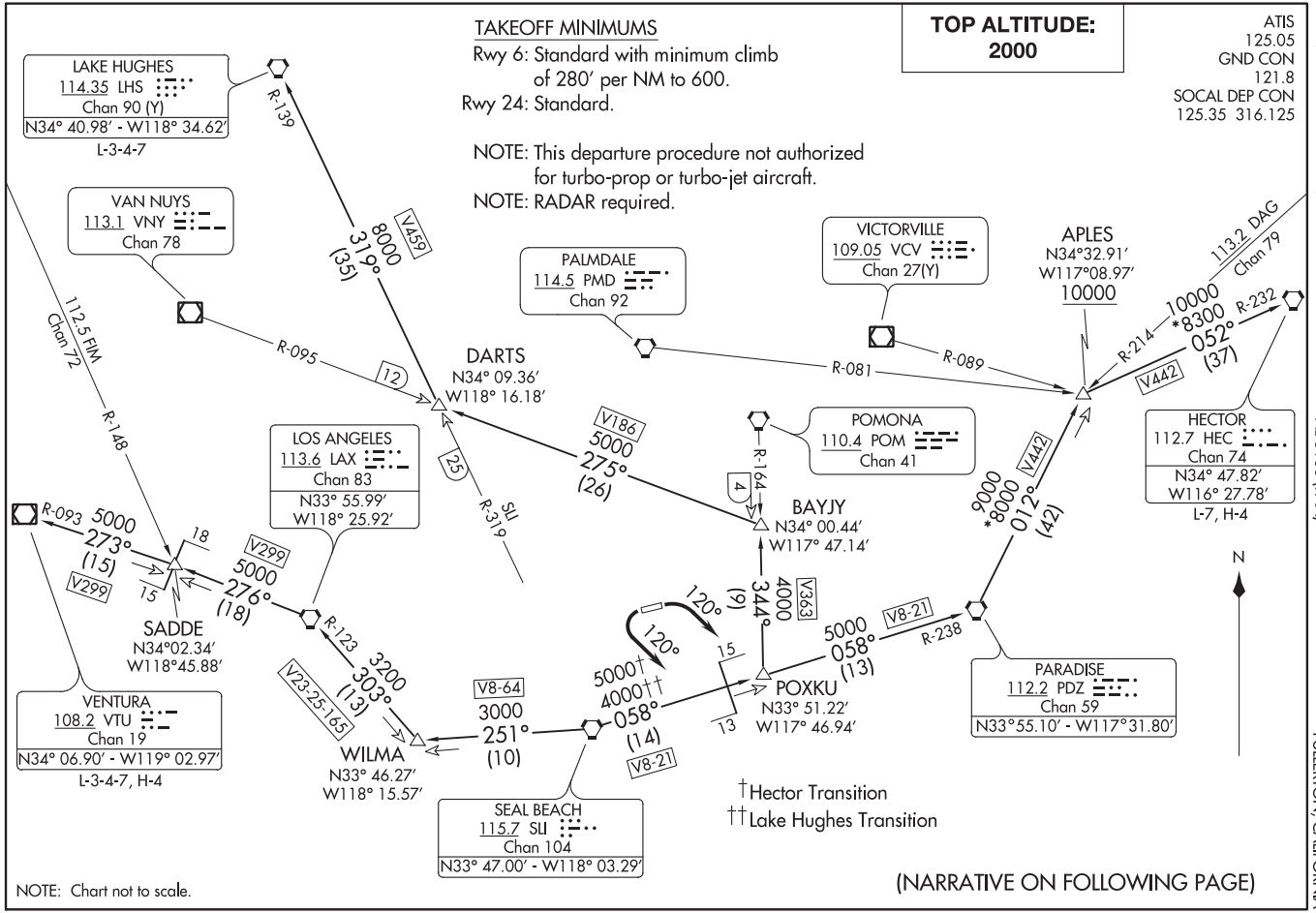
AIRPORT DIAGRAM
20086

FULLERTON, CALIFORNIA
FULLERTON MUNI (FUL)

ANAHEIM ONE DEPARTURE

(ANAHM1.SLI) 19JUL18

FULLERTON, CALIFORNIA
FULLERTON MUNI (FUL)



(ANAHM1.SLI) 20310

ANAHEIM ONE DEPARTURE

AL-5136 (FAA)

FULLERTON MUNI (FUL)
FULLERTON, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6: Turn right heading 120° for vectors to SLI VORTAC, thence. . . .

TAKEOFF RUNWAY 24: Turn left heading 120° for vectors to SLI VORTAC, thence. . . .

. . . .on (transition) or (assigned route). Maintain 2000 and expect filed altitude 10 minutes after departure.

HECTOR TRANSITION (ANAHM1.HEC): From over SLI VORTAC on SLI R-058 and PDZ R-238 to PDZ VORTAC, then on PDZ R-012 to APLES, then on HEC R-232 to HEC VORTAC.
LAKE HUGHES TRANSITION (ANAHM1.LHS): From over SLI VORTAC on SLI R-058 and PDZ R-238 to POXKU, then on POM R-164 to BAYJY, then on VNY R-095 to DARTS, then on LHS R-139 to LHS VORTAC.
VENTURA TRANSITION (ANAHM1.VTU): From over SLI VORTAC on SLI R-251 to WILMA, then on LAX R-123 to LAX VORTAC, then on LAX R-276 to SADDE, then on VTU R-093 to VTU VOR/DME.

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6: Climb heading 063° to 596, then right turn on heading 120° to 2000 for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

TAKEOFF RUNWAY 24: Climb heading 243° to 596, then on heading 240° to 2000 for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

. . . . on (transition). Maintain 6000. Expect higher altitude 10 minutes after departure.

IKAYE TRANSITION (HAWWC3.IKAYE)

TAKEOFF MINIMUMS

Rwy 6: Standard with minimum climb of 280 feet per NM to 600.

Rwy 24: Standard.

WAAS	APP CRS	Rwy Idg	4193
CH 65825	253°	TDZE	63
W25A		Apt Elev	66

RNAV (GPS) RWY 25

JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)

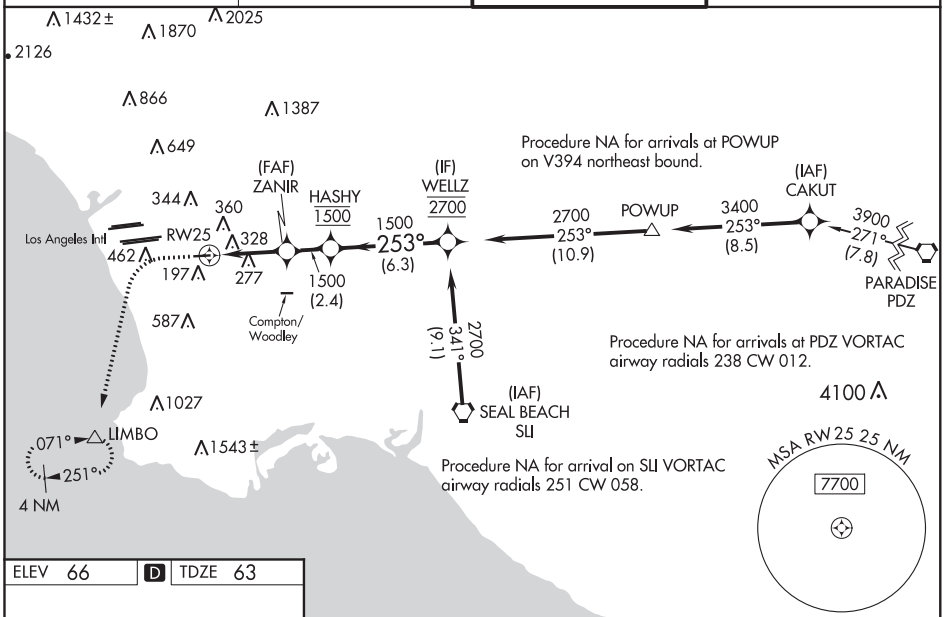
RNP APCH.

Circling NA north of Rwy 7-25. Procedure NA at night. Rwy 25 helicopter visibility reduction below 1 SM NA. For uncompensated Baro-VNAV systems, procedure NA below 6°C or above 54°C. Circling NA when control tower closed. For inop ALS increase LNAV/VNAV Cats A/B visibilities to 1¾ SM. Inop table does not apply to LPV and LNAV. Simultaneous approach authorized with LAX 25L/R, 24L/R. LNAV and LNAV/VNAV only approach NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

ODALS

MISSED APPROACH: Climb to 800 then climbing left turn to 3000 direct LIMBO and hold, continue climb-in-hold to 3000.

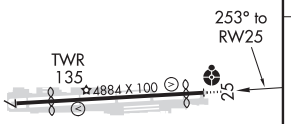
ATIS	SOCAL APP CON	HAWTHORNE TOWER ★	GND CON
118.4	124.9 269.0	121.1 (CTAF) L 257.8	125.1

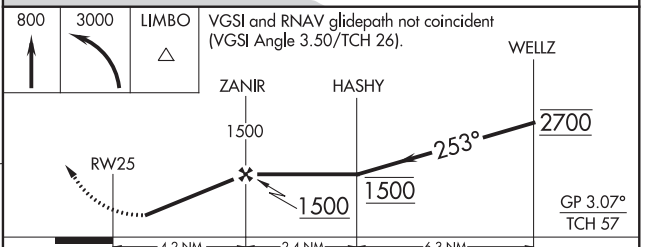


SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ELEV 66 | D | TDZE 63





CATEGORY	A	B	C	D
LPV DA	576-1⅜ 513 (600-1⅜)			
LNAV/VNAV DA	653-1⅝ 590 (600-1⅝)			
LNAV MDA	580-1 517 (600-1)		580-1⅜ 517 (600-1⅜)	
C CIRCLING	620-1 554 (600-1)		780-2 714 (800-2)	780-2¼ 714 (800-2¼)

REIL Rwy 25
MIRL Rwy 7-25 L

LOC I-HHR	APP CRS	Rwy Idg	4193
109.1	253°	TDZE	63
		Apt Elev	66

LOC RWY 25

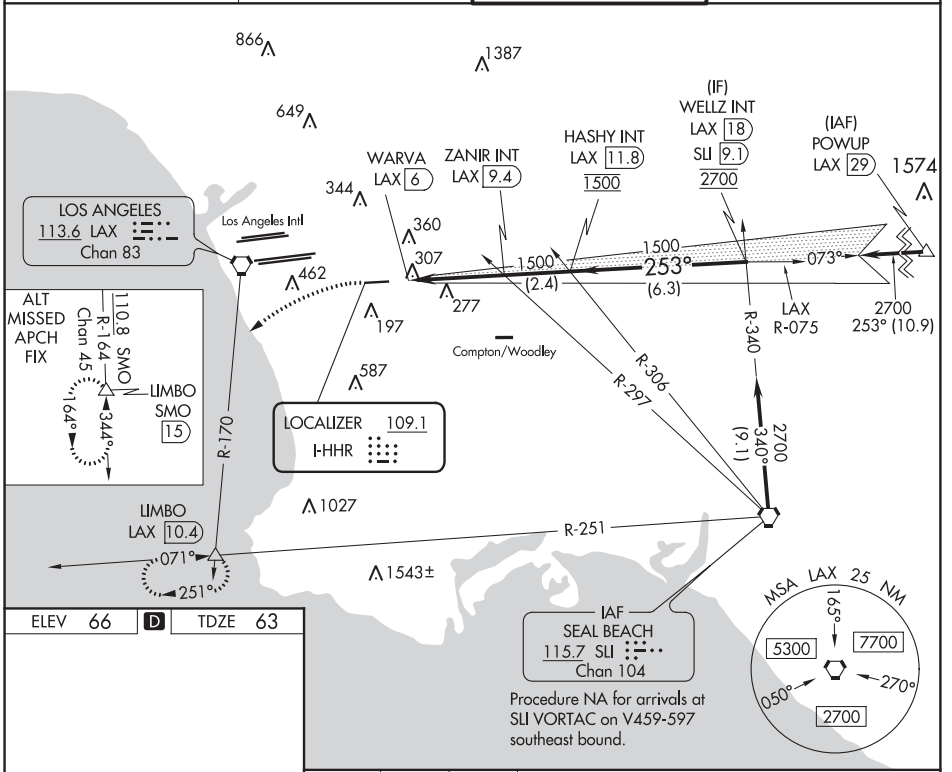
JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)

T Inop table does not apply to Cat C. Rwy 25 helicopter visibility reduction below A ¾ SM NA. Circling NA when control tower closed. When local altimeter setting not received, use Los Angeles Intl altimeter setting. Simultaneous approach authorized with LAX 25L/R 24L/R. Circling NA north of Rwy 7-25. DME from LAX VORTAC. Simultaneous reception of I-HHR and LAX DME required.

ODALS

MISSED APPROACH: Climbing left turn to 3000 on heading 210° and LAX VORTAC R-170 to LIMBO INT/LAX 10.4 DME and hold.

ATIS	SOCAL APP CON	HAWTHORNE TOWER*	GND CON
118.4	124.9 269.0	121.1(CTAF) L 257.8	125.1



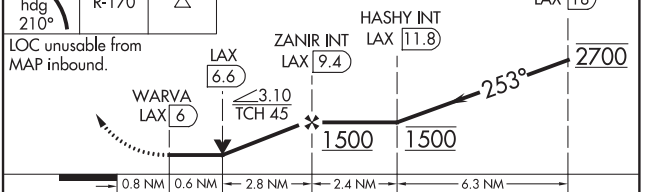
ELEV 66 D TDZE 63

253° 4.2 NM from FAF

3000 hdg 210°	LAX R-170	LIMBO △

VGSI and descent angles not coincident (VGSI Angle 3.50/TCH 26).

LOC unusable from MAP inbound.



CATEGORY	A	B	C	D
S-25	580-¾ 517 (600-¾)		580-1⅜ 517 (600-1⅜)	
C CIRCLING	620-1 554 (600-1)		780-2 714 (800-2)	780-2¼ 714 (800-2¼)

REIL Rwy 25
MIRL Rwy 7-25 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

HAWTHORNE, CALIFORNIA | AL-5120 (FAA) | 20114

VORTAC LAX	APP CRS	Rwy Idg	4193
113.6	261°	TDZE	63
Chan 83		Apt Elev	66

VOR RWY 25

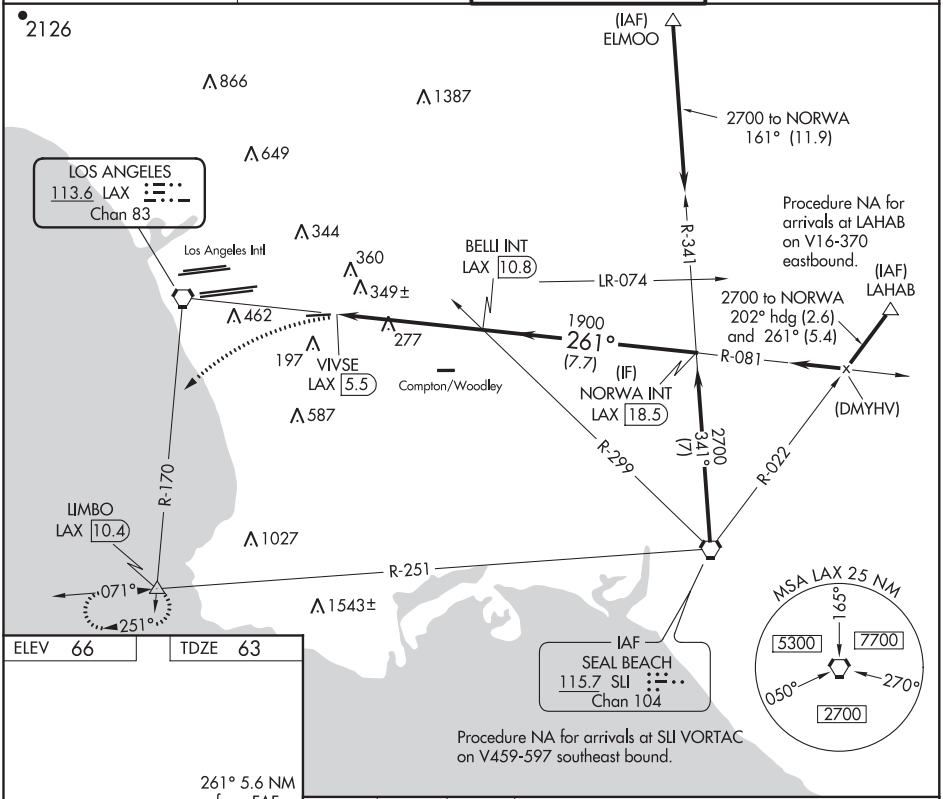
JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)

T Inoperative table does not apply. Circling NA north of Rwy 7-25.
A Rwy 25 helicopter visibility reduction below 1 SM NA. Circling NA when control tower closed. When local altimeter setting not received, use Los Angeles Intl altimeter setting. Procedure NA at night

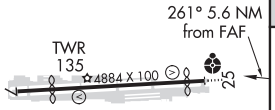
ODALS

MISSED APPROACH: Climbing left turn to 3000 via heading 210° and LAX VORTAC R-170 to LIMBO INT/LAX 10.4 DME and hold.

ATIS	SOCAL APP CON	HAWTHORNE TOWER ★	GND CON
118.4	124.9 269.0	121.1 (CTAF) L 257.8	125.1

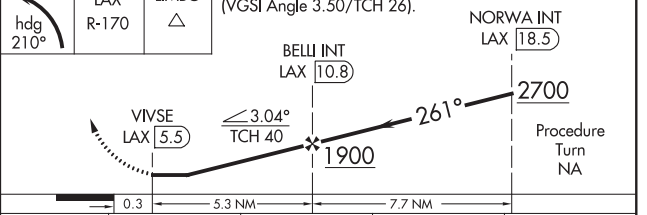


ELEV 66 | TDZE 63



3000 hdg 210°	LAX R-170	LIMBO

VGSI and descent angles not coincident (VGSI Angle 3.50/TCH 26).



REIL Rwy 25
MIRL Rwy 7-25 L

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

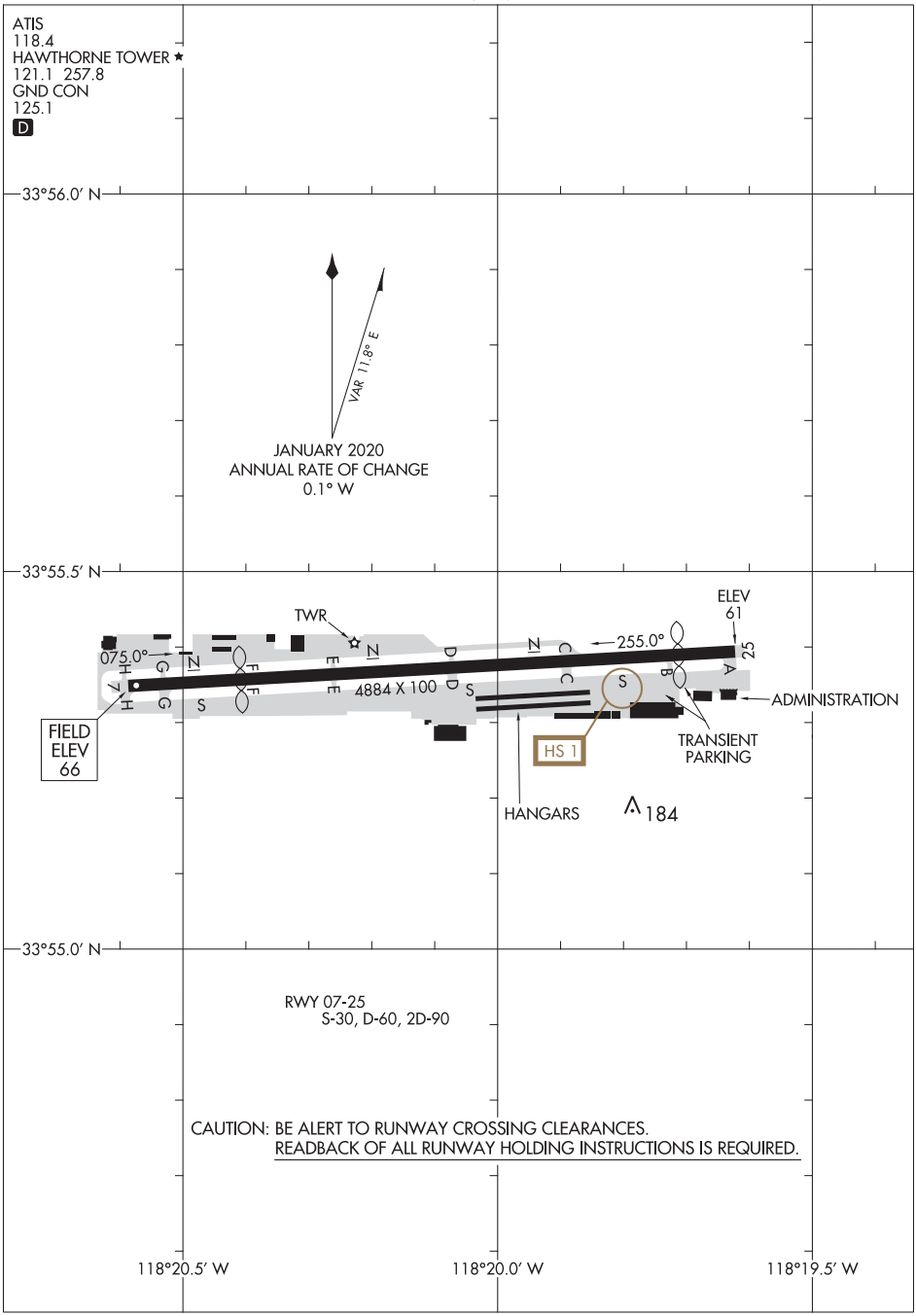
CATEGORY	A	B	C	D
S-25	600-1 537 (600-1)		600-1½ 537 (600-1½)	600-1¾ 537 (600-1¾)
C CIRCLING	620-1 554 (600-1)		780-2 714 (800-2)	780-2¼ 714 (800-2¼)

HAWTHORNE, CALIFORNIA
Amdt 16A 23APR20

JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)
33°55'N-118°20'W
VOR RWY 25

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020

(SPACX2.SPACX) 20030

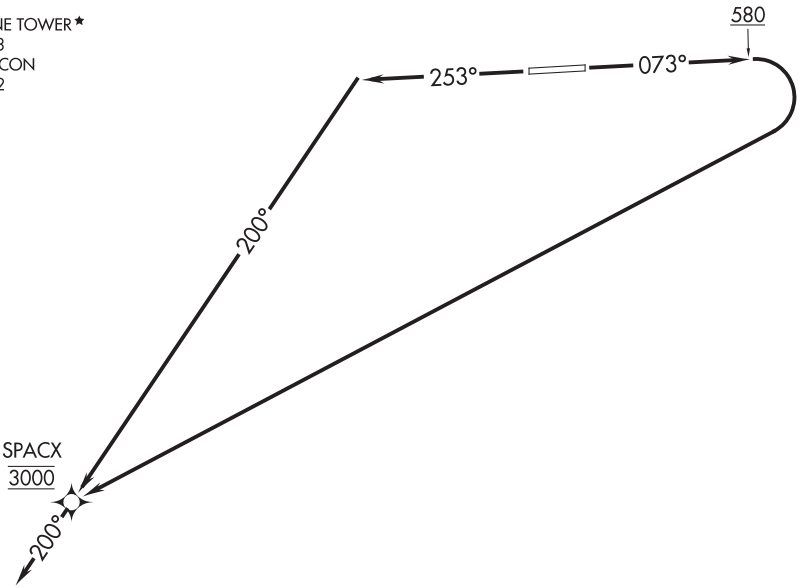
SPACX TWO DEPARTURE (RNAV)

JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)
AL-5120 (FAA)
HAWTHORNE, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

ATIS
118.4
GND CON
125.1
HAWTHORNE TOWER ★
121.1 257.8
SOCAL DEP CON
124.3 363.2

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS

Rwy 7: Standard with a minimum climb of 500′ per NM to 580.
Rwy 25: Standard with a minimum climb of 500′ per NM to 580.

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: SLI turbojet/turboprop departures expect vectors/direct to SLI/V64/TRM.
NOTE: SLI prop departures expect left turn/vectors to LIMBO SLI/V64.
NOTE: LAX departures expect left turn/vectors/direct to LAX/LAX310R.
NOTE: EXERT departures expect vectors/direct to EXERT/V25/V27.
NOTE: VTU departures expect vectors/direct to VTU.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb on heading 073° to 580, then turn right direct to cross SPACX at 3000 then on track 200. Thence . . . .

TAKEOFF RUNWAY 25: Climb on heading 253° to intercept course 200° to cross SPACX at 3000 then on track 200°. Thence . . . .

. . . . on assigned course/route. Maintain ATC assigned altitude. Expect filed altitude 5 minutes after departure.

APP CRS	Rwy Idg	4315
035°	TDZE	1513
	Apt Elev	1515

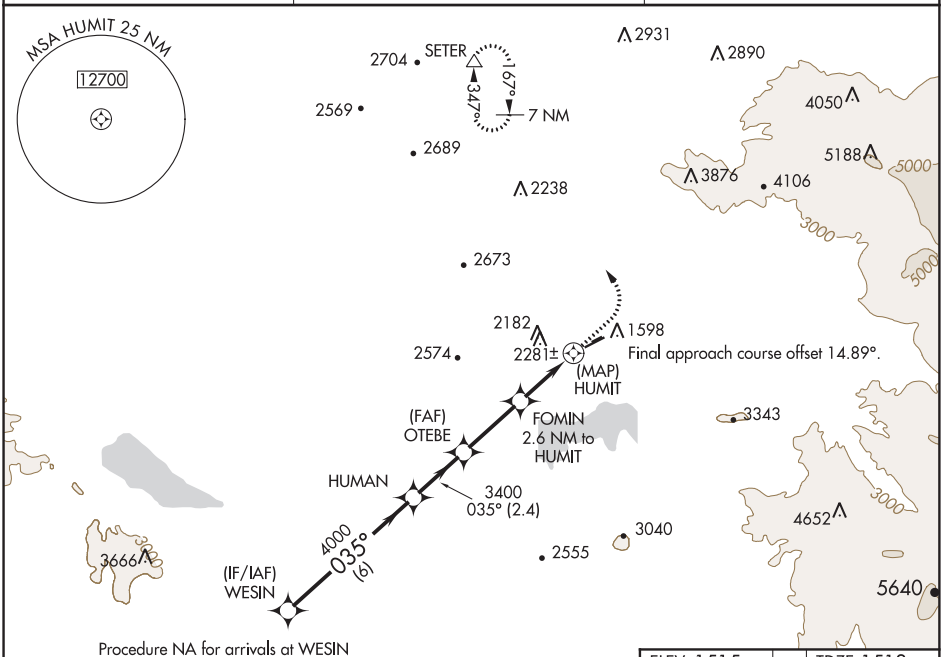
RNAV (GPS) RWY 5

HEMET-RYAN (HMT)

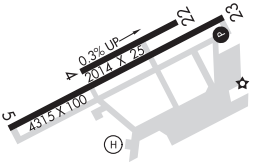
RNP APCH

MISSED APPROACH: Climb to 2500 then climbing left turn to 7900 direct SETER and hold, continue climb-in-hold to 7900.

AWOS-3PT	MARCH APP CON ★	UNICOM
118.375	133.5 306.975	123.0 (CTAF) L

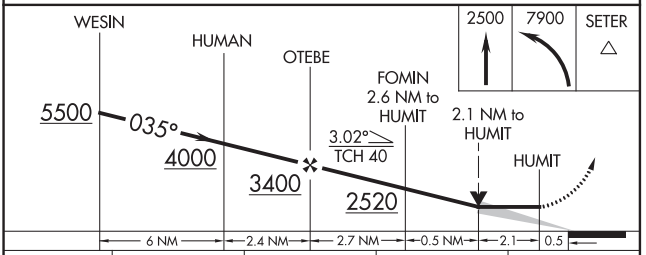


ELEV 1515 TDZE 1513



Rwy 4-22 restricted for glider operations.

MIRL Rwy 5-23 L



CATEGORY	A	B	C	D
LNAV MDA	2360-1 847 (900-1)	2360-1¼ 847 (900-1¼)	2360-2½ 847 (900-2½)	NA
CIRCLING	2360-1 845 (900-1)	2400-1¼ 885 (900-1¼)	2600-3 1085 (1100-3)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

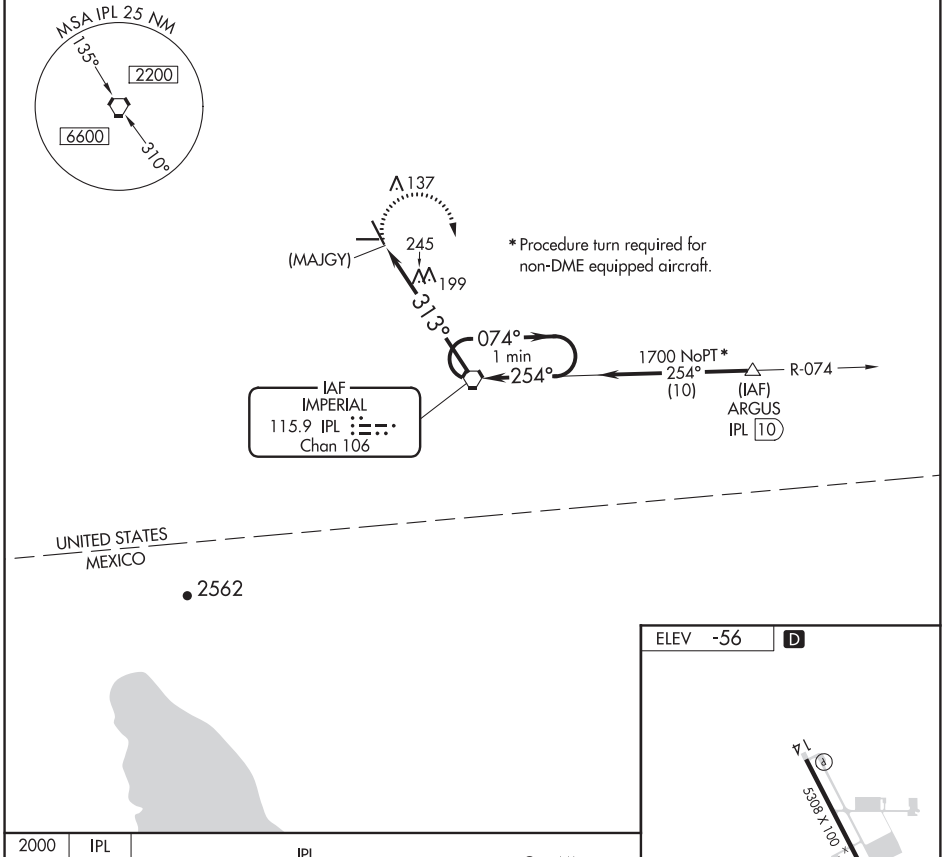
VORTAC IPL 115.9 Chan 106	APP CRS 313°	Rwy Idg N/A TDZE N/A Apt Elev -56

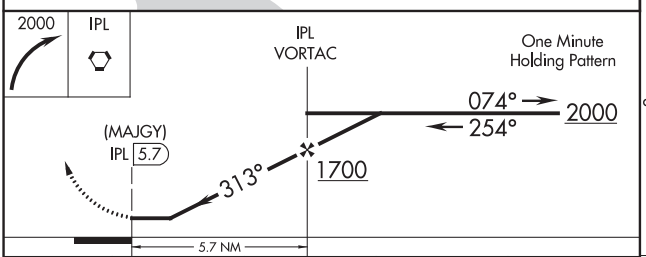
VOR or GPS-A

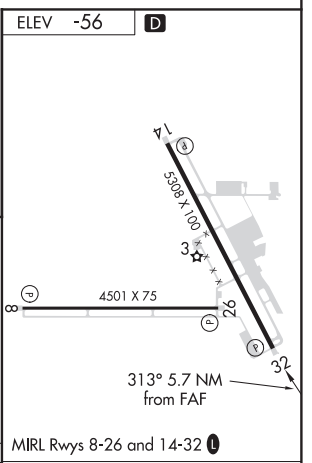
IMPERIAL COUNTY (IPL)

MISSED APPROACH: Climbing right turn to 2000 direct IPL VORTAC and hold.

ASOS	LOS ANGELES CENTER	UNICOM
132.175	128.6 291.7	122.7 (CTAF) L



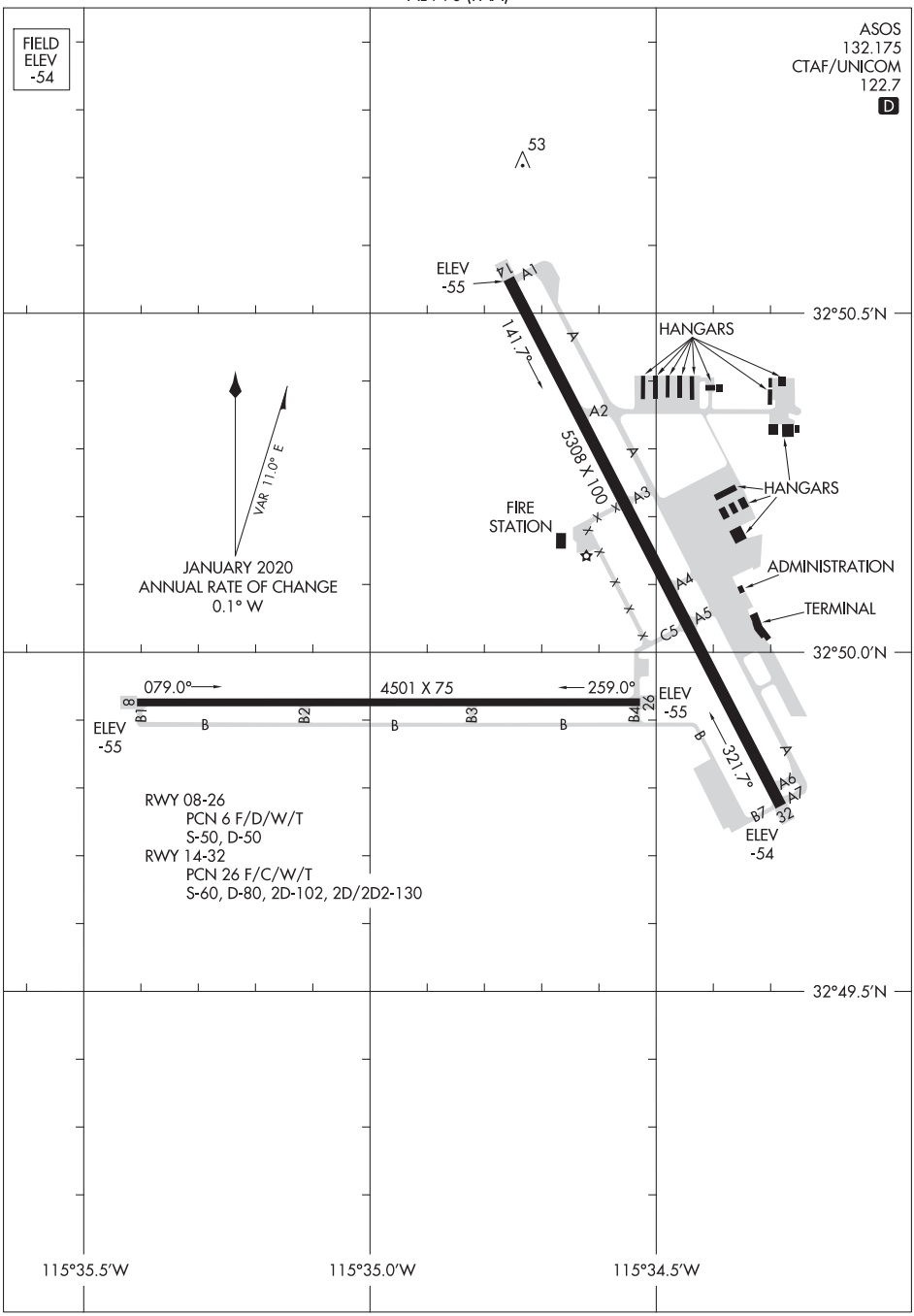




CATEGORY	A	B	C	D
CIRCLING	560-1 616 (700-1)		560-1¾ 616 (700-1¾)	560-2 616 (700-2)

FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020


FIELD ELEV -54
ASOS 132.175
CTAF/UNICOM 122.7
D
53
ELEV -55
141.7°
5308 X 100
HANGARS
HANGARS
FIRE STATION
ADMINISTRATION
TERMINAL
VAR 11.0° E
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
079.0°
4501 X 75
259.0°
ELEV -55
ELEV -55
321.7°
ELEV -54
RWY 08-26
PCN 6 F/D/W/T
S-50, D-50
RWY 14-32
PCN 26 F/C/W/T
S-60, D-80, 2D-102, 2D/2D2-130
32°50.5'N
32°50.0'N
32°49.5'N
115°35.5'W
115°35.0'W
115°34.5'W

IMPERIAL BEACH, CALIFORNIA

COPTER TACAN RWY 27

TACAN	APCH CRS	Rwy ldg	4997
NRS Chan 29	258°	THRE	20
		Arpt Elev	24

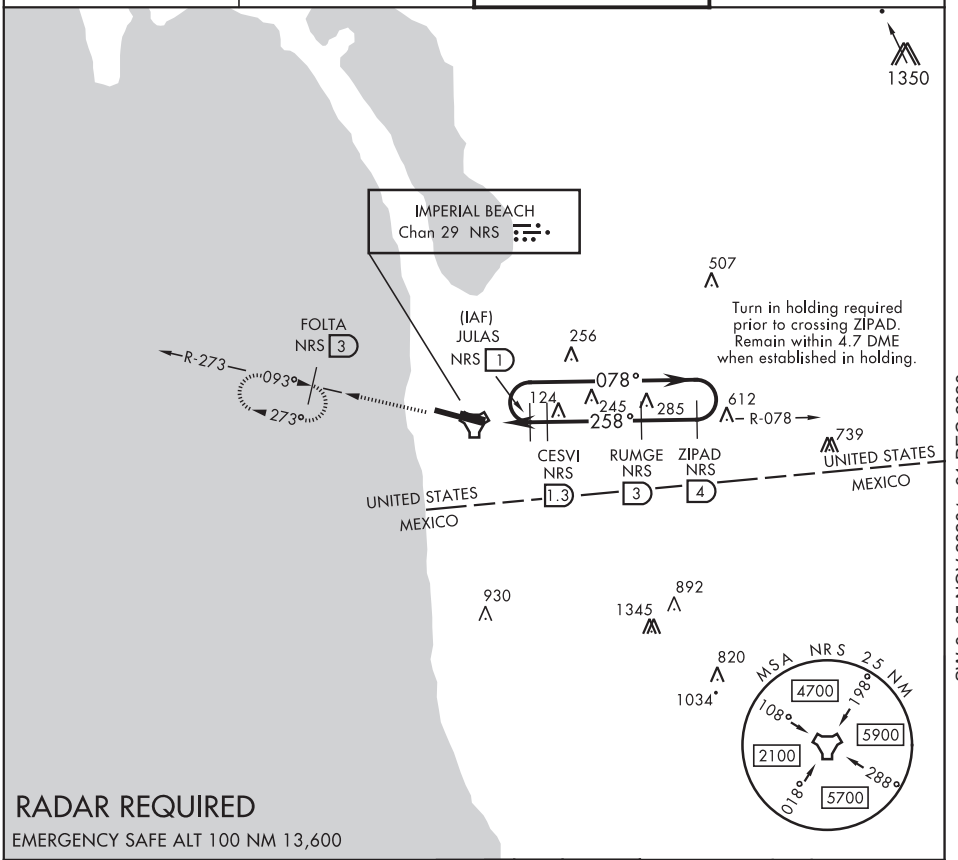
AL-307 [USN]

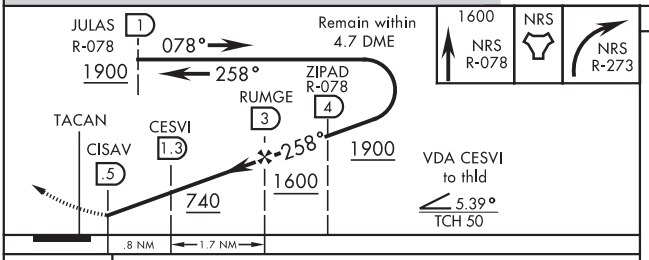
IMPERIAL BEACH NOLF (REAM FIELD) (KNRS)

Max airspeed 90 KIAS.

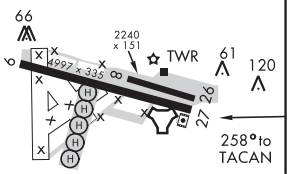
MISSED APPROACH: Climb to 1600 via NRS TACAN R-078 to NRS, then via NRS R-273 to FOLTA, continue climb-in-hold to 1600. Remain within 5.2 DME when established in holding.

ATIS ★ /ASOS	SOCAL APP CON	IMPERIAL BEACH TOWER ★	GND CON
276.2	125.15 317.55	120.65 239.25	285.575





ELEV 24 | THRE 20



HIRL Rwy 9-27

CATEGORY	COPTER		
H-27	360-1	340	(400-1)

IMPERIAL BEACH, CALIFORNIA 32°34'N-117°07'W IMPERIAL BEACH NOLF (REAM FIELD) (KNRS)

Amdt 4 20AUG15

COPTER TACAN RWY 27

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 2

INYOKERN (IYK)

APP CRS	Rwy Idg	TDZE	Apt Elev
017°	6275	2442	2457

RNP APCH.

Circling Rwy 10, 33 NA at night. Circling NA east of Rwy 15-33. Circling NA at night west of Rwys 2 and 15. Except for operators with approved weather reporting service, use Mojave altimeter setting, if not available, procedure NA.

MISSED APPROACH: (Do not exceed 165K until SW bound) Climbing right turn to 8600 direct MIGPE then left turn on track 197° to ASUYU and hold.

MHV AWOS-3	JOSHUA APP CON	AUNICOM
132.225	133.65 348.7	122.8 (CTAF) L

ROUTING TO ASUYU (not to scale)

(IAF) ASUYU
8600 017° (5)
CETEG
10000 017° (14)
MOVIA
11000 021° (23.5)
LAKE HUGHES LHS
022° 202°
HOLD 11000
7 NM

6696 3188 2476 7294
Fly visual to airport 017° 5 NM
R-2505
R-2506
(MAP) BISAC
(FAF) DIVAC
MIGPE 5244
5700 to DIVAC 017° (6.9)
(IF) BACRA
MSA BISAC 25 NM
10800
5997 6429 5112 5100
(IAF) ASUYU
5203 6698
017° 197° 6 NM
SEE INSET FOR ROUTING TO ASUYU

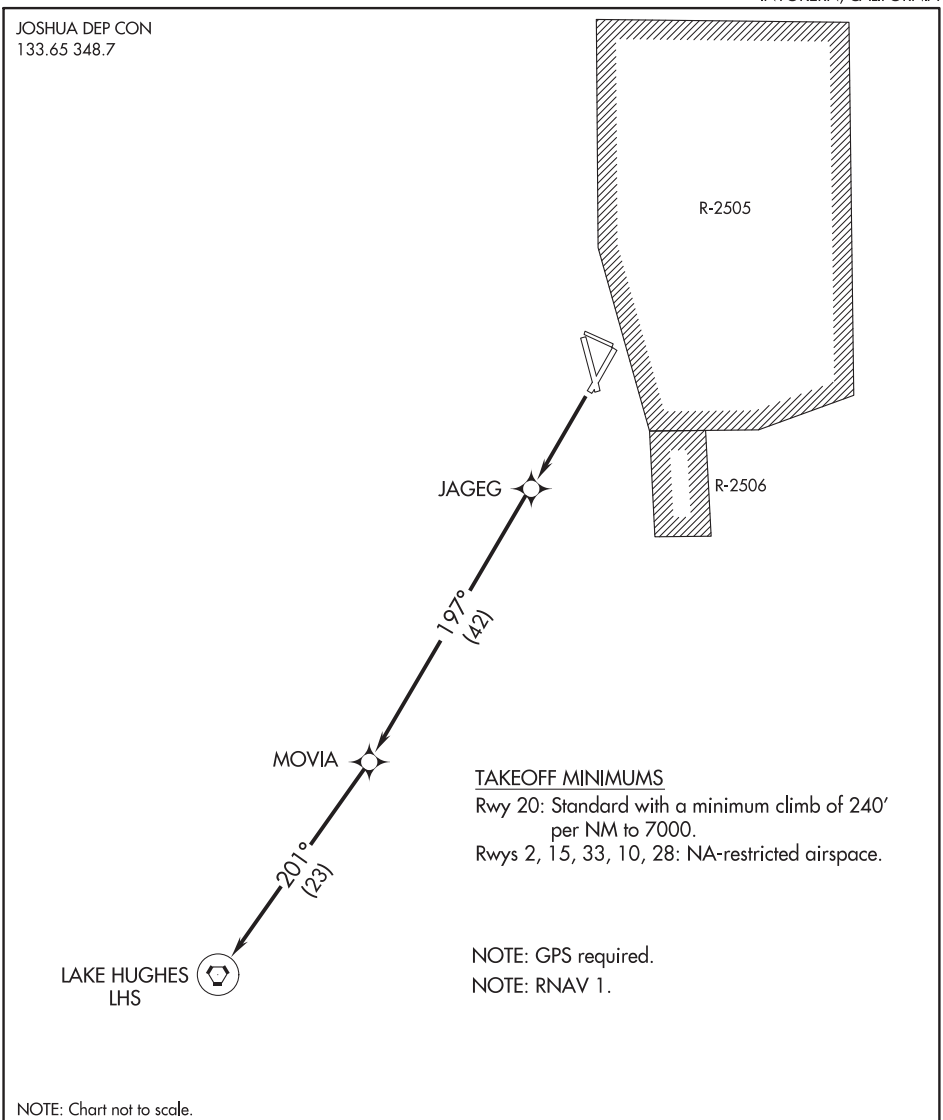
ELEV 2457 TDZE 2442
MIRL Rwys 15-33, 2-20, and 10-28 L
4150 X 75 1.0% UP
6275 X 75 0.4% UP
7100 X 75 0.4% UP
Fly visual to airport 017° 5 NM

ASUYU 8600 017° 7000 BACRA DIVAC 5700 BISAC
8600 MIGPE 197° tr ASUYU
Fly visual to airport 017° 5 NM
3.32° TCH 40
10 NM 6.9 NM 4.1 NM 5 NM

CATEGORY	A	B	C	D
LNAV MDA	4200-3 1758 (1800-3)			
CIRCLING	4200-3 1743 (1800-3)		4780-3 2323 (2400-3)	5640-3 3183 (3200-3)

SW-3, 05 NOV 2020 to 31 DEC 2020

LAKE HUGHES TWO DEPARTURE (OBSTACLE) (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 20: Climb direct JAGEG then continue climb to 8000 via 197° track to MOVIA and 201° track to LHS VORTAC. Thence via assigned route and altitude.

TAKEOFF RUNWAYS 2, 33, 15, 10, and 28: NA.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(IYK2.LHS) 19227

AL-5417 (FAA)

INYOKERN TWO DEPARTURE

INYOKERN (IYK)
INYOKERN, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

JOSHUA DEP CON
133.65 348.7

TOP ALTITUDE: 10000

207°

KOLEE
N35°27.74′
W118°01.56′

195°
(54)

R-015

LAKE HUGHES
114.35 LHS
Chan 90 (Y)
N34°40.98′-W118°34.62′

L-3-4-7

TAKEOFF MINIMUMS

Rwys 2, 10, 15, 28, 33: NA-restricted airspace/terrain.
Rwy 20: Standard with minimum climb of 400′ per NM to 8200.

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 20: Climb to 10000 on heading 207° and LHS VORTAC R-015 to LHS VORTAC, then proceed on course.

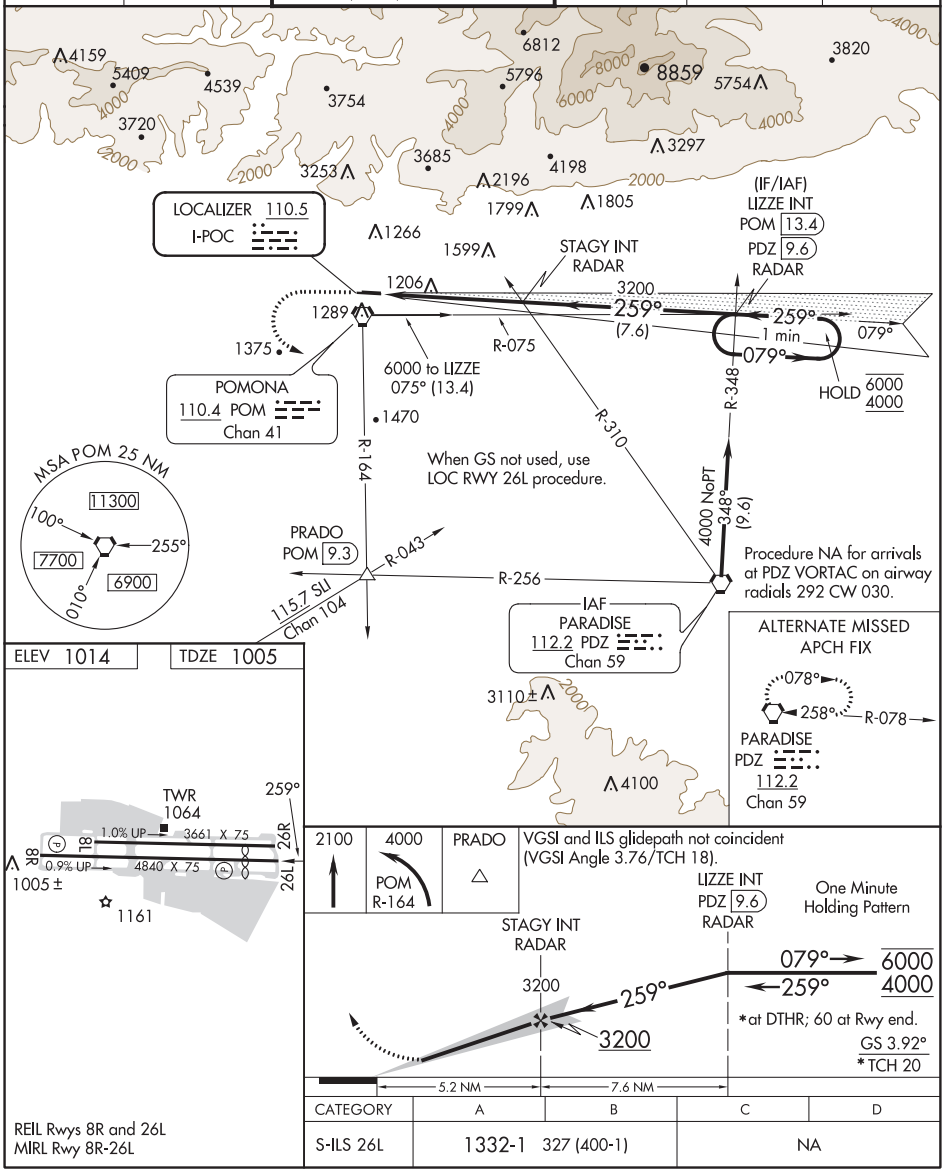
ILS RWY 26L
BRACKETT FIELD (POC)

LOC I-POC	APP CRS	Rwy Idg	4151
110.5	259°	TDZE	1005
		Apt Elev	1014

Rwy 26L helicopter visibility reduction below ¾ SM NA.
When local altimeter setting not received, use Ontario Intl altimeter setting and increase DA to 1364.

MISSED APPROACH: Climb to 2100 then climbing left turn to 4000 on POM VORTAC R-164 to PRADO INT/POM 9.3 DME.

ATIS	SOCAL APP CON	BRACKETT TOWER★ RWY 8R/26L	BRACKETT TOWER★ RWY 8L/26R	GND CON	CLNC DEL	UNICOM
124.4	125.5 318.2	118.2 (CTAF)	133.3	125.0	121.875	122.95



CATEGORY	A	B	C	D
S-ILS 26L	1332-1	327 (400-1)	NA	

REIL Rwys 8R and 26L
MIRL Rwy 8R-26L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LA VERNE, CALIFORNIA | AL-5218 (FAA) | 19003

RNAV (GPS) RWY 26L

BRACKETT FIELD (POC)

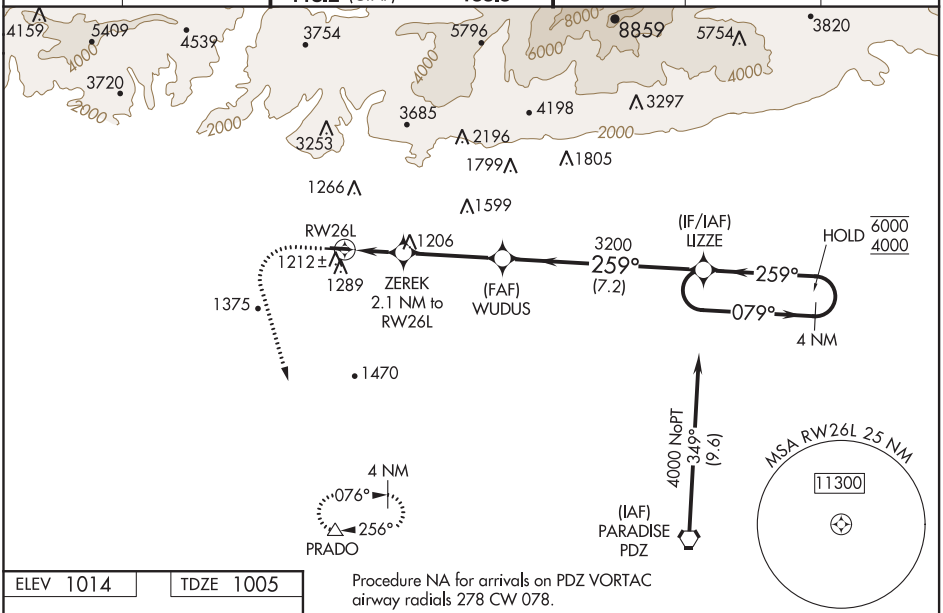
WAAS	APP CRS	Rwy Idg	4151
CH 70624	259°	TDZE	1005
W26A		Apt Elev	1014

RNP APCH.

Baro-VNAV and VDP NA when using Ontario altimeter setting. Rwy 26L helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C. When local altimeter setting not received, use Ontario Intl altimeter setting and increase all DA 32 feet and all MDA 40 feet, increase LPV and LNAV/VNAV all Cats visibility ⅛ SM. Circling NA for Cat C north of Rwy 8L-26R. Circling to Rwy 8L NA at night. When Circling to Rwy 8R at night, operational VGSI required, remain on or above VGSI glidepath until threshold.

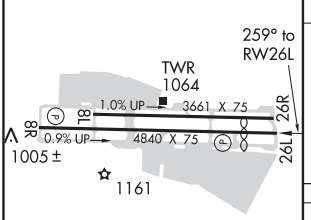
MISSED APPROACH: Climb to 2100 then climbing left turn to 4000 direct PRADO and hold.

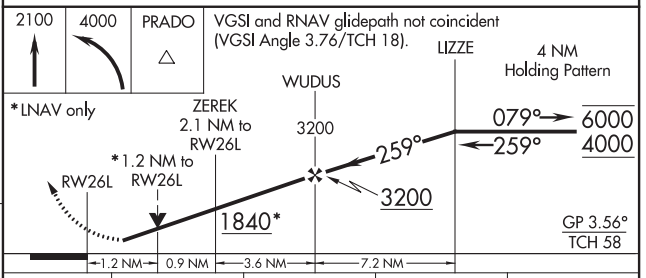
ATIS	SOCAL APP CON	BRACKETT TOWER★		GND CON	CLNC DEL	UNICOM
		RWY 8R/26L	RWY 8L/26R			
124.4	125.5 318.2	118.2 (CTAF)	133.3	125.0	121.875	122.95



ELEV 1014 | TDZE 1005

Procedure NA for arrivals on PDZ VORTAC airway radials 278 CW 078.





CATEGORY	A	B	C	D
LPV DA	1305-⅞ 300 (300-⅞)			NA
LNAV/VNAV DA	1444-1¼ 439 (500-1¼)			NA
LNAV MDA	1500-1 495 (500-1)		1500-1⅜ 495 (500-1⅜)	NA
C CIRCLING	1680-1 666 (700-1)		1760-2¼ 746 (800-2¼)	NA

REIL Rwys 8R and 26L
MIRL Rwy 8R-26L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

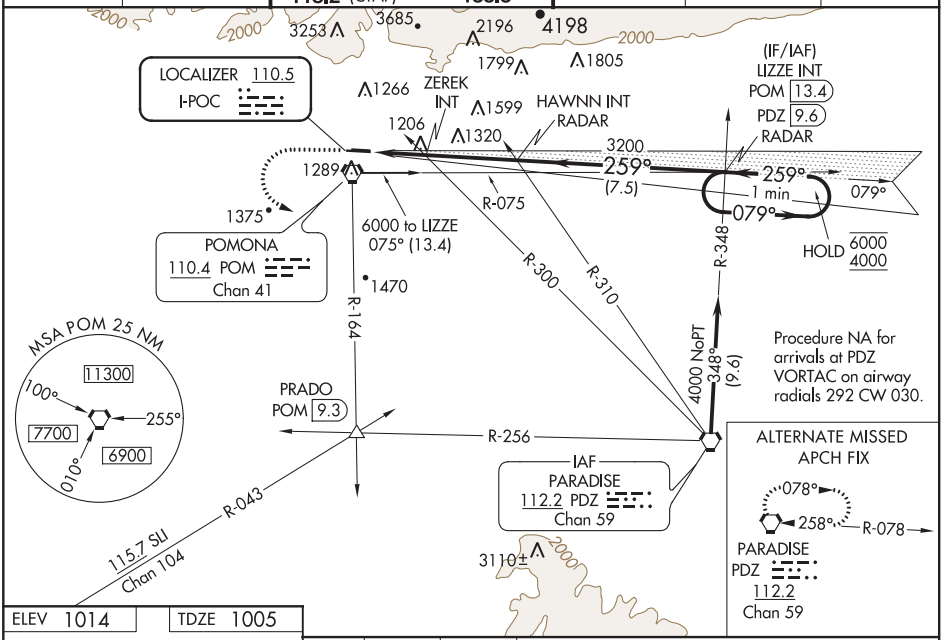
LOC I-POC	APP CRS	Rwy Idg	4151
110.5	259°	TDZE	1005
		Apt Elev	1014

LOC RWY 26L
BRACKETT FIELD (POC)

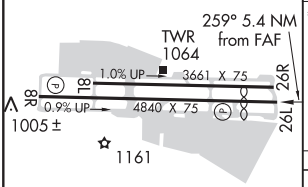
Circling to Rwy 8L NA at night. Circling NA for Cat C north of Rwy 8L-26R. When Circling to Rwy 8R at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Rwy 26L helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Ontario Intl altimeter setting and increase all MDAs 40 feet.

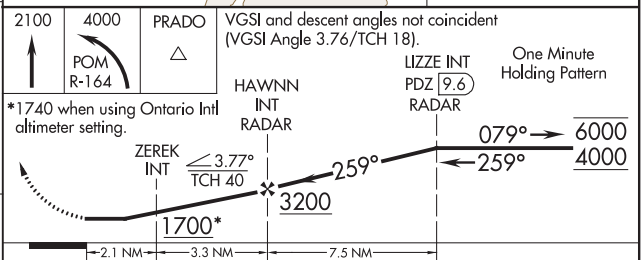
MISSED APPROACH: Climb to 2100 then climbing left turn to 4000 on POM VORTAC R-164 to PRADO INT/POM 9.3 DME and hold.

ATIS	SOCAL APP CON	BRACKETT TOWER★ RWY 8R/26L	BRACKETT TOWER★ RWY 8L/26R	GND CON	CLNC DEL	UNICOM
124.4	125.5 318.2	118.2 (CTAF)	133.3	125.0	121.875	122.95



ELEV 1014	TDZE 1005





CATEGORY	A	B	C	D
S-LOC 26L	1700-1 695 (700-1)		1700-2 695 (700-2)	NA
C CIRCLING	1700-1 686 (700-1)		1760-2¼ 746 (800-2¼)	NA
ZEREK MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-LOC 26L	1460-1 455 (500-1)		1460-1⅜ 455 (500-1⅜)	NA
C CIRCLING	1680-1 666 (700-1)		1760-2¼ 746 (800-2¼)	NA

REIL Rwys 8R and 26L
MIRL Rwy 8R-26L

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-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LA VERNE, CALIFORNIA AL-5218 (FAA) 20310

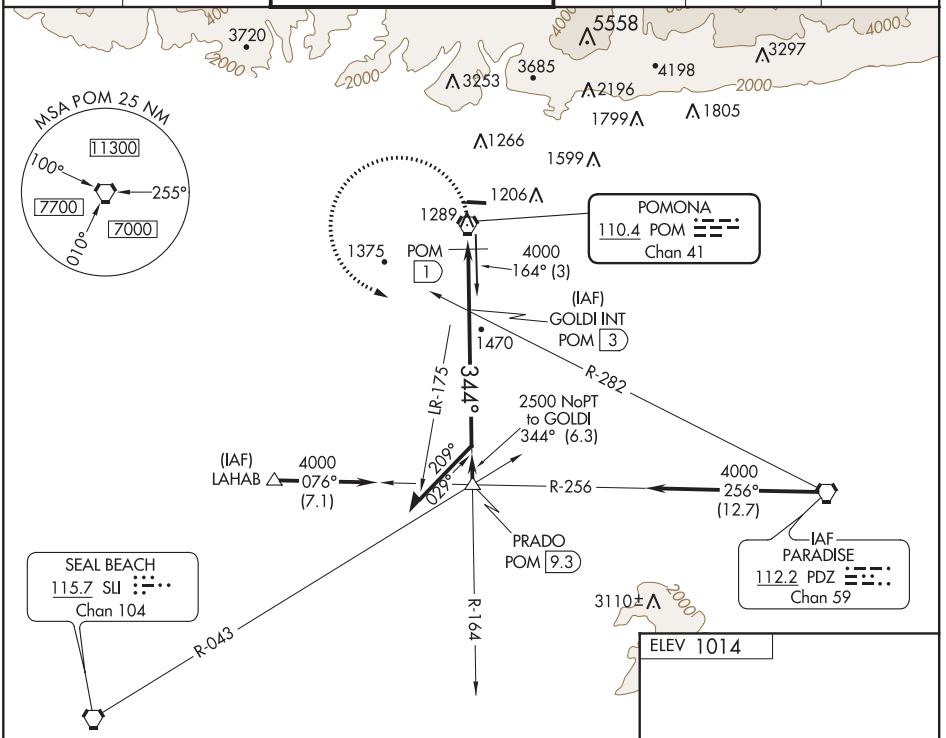
VORTAC POM	APP CRS	Rwy Idg	N/A
110.4	344°	TDZE	N/A
Chan 41		Apt Elev	1014

VOR or GPS-A
BRACKETT FIELD (POC)

When local altimeter setting not received, use Ontario Intl altimeter setting and increase all MDA 40 feet and visibility Cat C ¼ mile. Night landing: Rwy 8L NA, Rwy 8R operational VGSI required, remain on or above VGSI glidepath until threshold. Helicopter visibility reduction below 1 SM not authorized. Circling NA for Cat C north of Rwy 8L-26R

MISSED APPROACH: Climbing left turn to 4000 via POM R-164 to PRADO INT.

ATIS	SOCAL APP CON	BRACKETT TOWER★		GND CON	CLNC DEL	UNICOM
		RWY 8R/26L	RWY 8L/26R			
124.4	125.5 318.2	118.2 (CTAF)	133.3	125.0	121.875	122.95



CATEGORY	A	B	C	D
C CIRCLING	1800-1 786 (800-1)	1800-1¼ 786 (800-1¼)	1800-2¼ 786 (800-2¼)	NA
DME MINIMUMS				
C CIRCLING	1680-1 666 (700-1)		1760-2¼ 746 (800-2¼)	NA

REIL Rwys 8R and 26L
MIRL Rwy 8R-26L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 06 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS		
CH 93702	057°	Rwy Idg	7201
W06A		TDZE	2351
		Apt Elev	2351

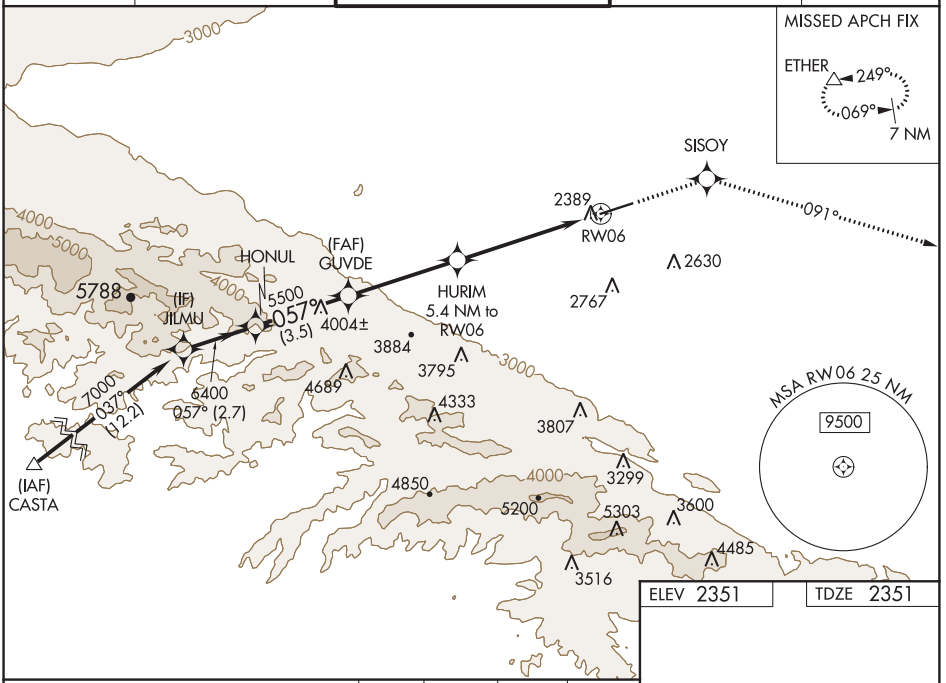
RNAV (GPS) RWY 6

GENERAL WM J FOX AIRFIELD (WJF)

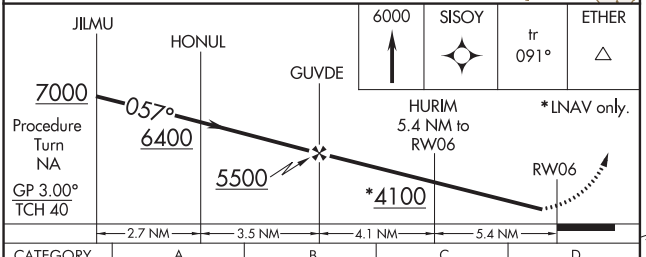
T When VGSI inop, Straight-in/Circling Rwy 6 procedure NA at night.
A DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
W For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 45°C (113°F).
If local altimeter setting not received, use Palmdale altimeter setting and increase all DA/MDAs 60 feet.
Baro-VNAV NA when using Palmdale altimeter setting.

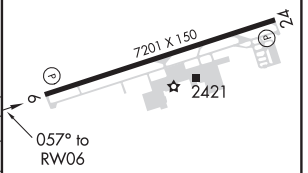
MISSED APPROACH: Climb to 6000 direct SISOY and via 091° track to ETHER and hold.

ATIS	JOSHUA APP CON	FOX TOWER ★	GND CON	UNICOM
126.3	126.1 290.3	118.525 (CTAF) 256.9	121.7 256.9	122.95



ELEV 2351 TDZE 2351





CATEGORY	A	B	C	D
LPV DA	2601-1 250 (300-1)			
LNAV/VNAV DA	2649-1 298 (300-1)			
LNAV MDA	2940-1 589 (600-1)		2940-1½ 589 (600-1½)	2940-1¾ 589 (600-1¾)
CIRCLING	2940-1 589 (600-1)		2940-1½ 589 (600-1½)	2940-2 589 (600-2)

REIL Rwys 6 and 24
MIRL Rwy 6-24

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	7201
252°	TDZE	2341
	Apt Elev	2351

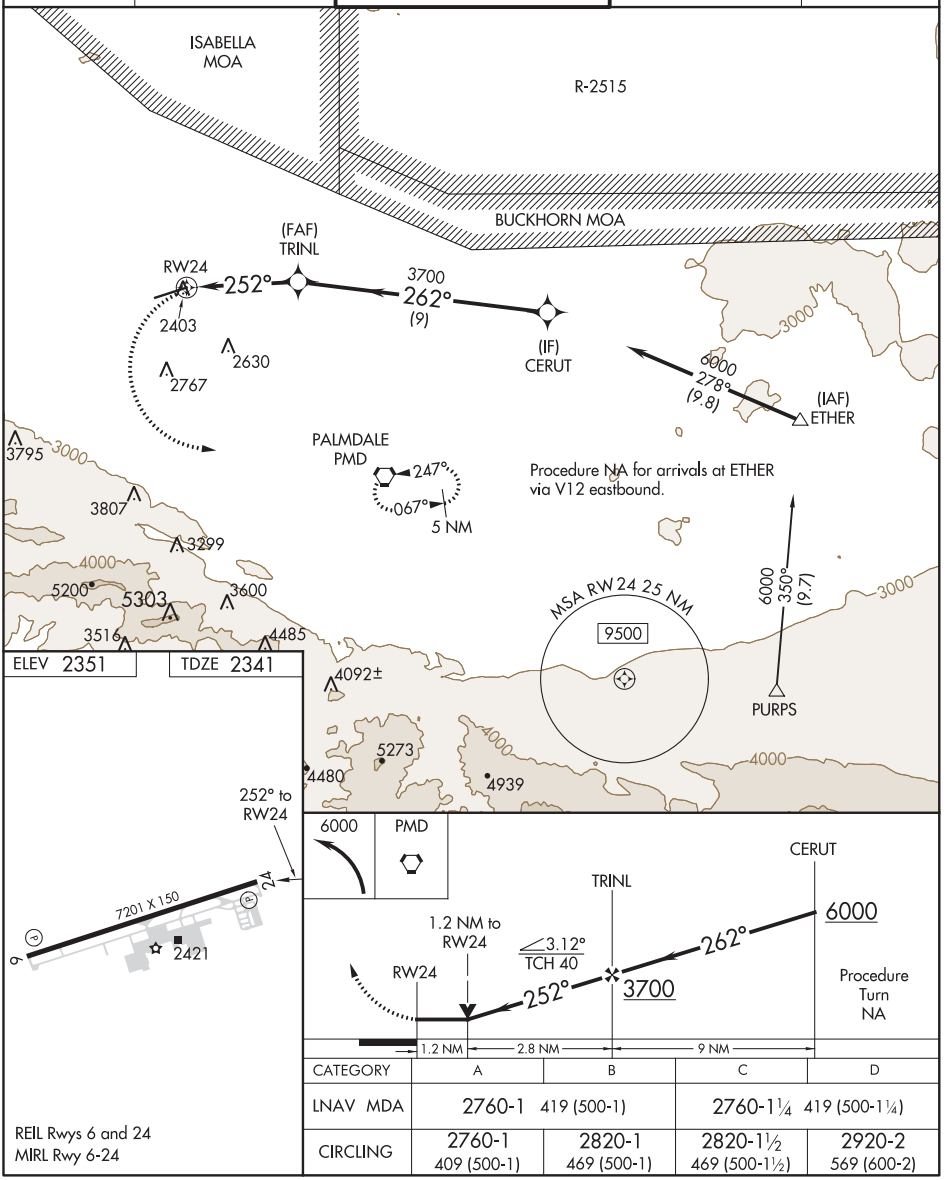
RNAV (GPS) RWY 24

GENERAL WM J FOX AIRFIELD (WJF)

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Palmdale altimeter setting and increase all MDA 60 feet; increase LNAV Cat D visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 6000 direct PMD VORTAC and hold, continue climb-in-hold to 6000.

ATIS	JOSHUA APP CON	FOX TOWER★	GND CON	UNICOM
126.3	126.1 290.3	118.525 (CTAF) 256.9	121.7 256.9	122.95



CATEGORY	A	B	C	D
LNAV MDA	2760-1 419 (500-1)		2760-1¼ 419 (500-1¼)	
CIRCLING	2760-1 409 (500-1)	2820-1 469 (500-1)	2820-1½ 469 (500-1½)	2920-2 569 (600-2)

REIL Rwys 6 and 24
MIRL Rwy 6-24

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LANCASTER, CALIFORNIA AL-5065 (FAA) 20310

VORTAC PMD	APP CRS	Rwy Idg	N/A
114.5	116°	TDZE	N/A
Chan 92		Apt Elev	2351

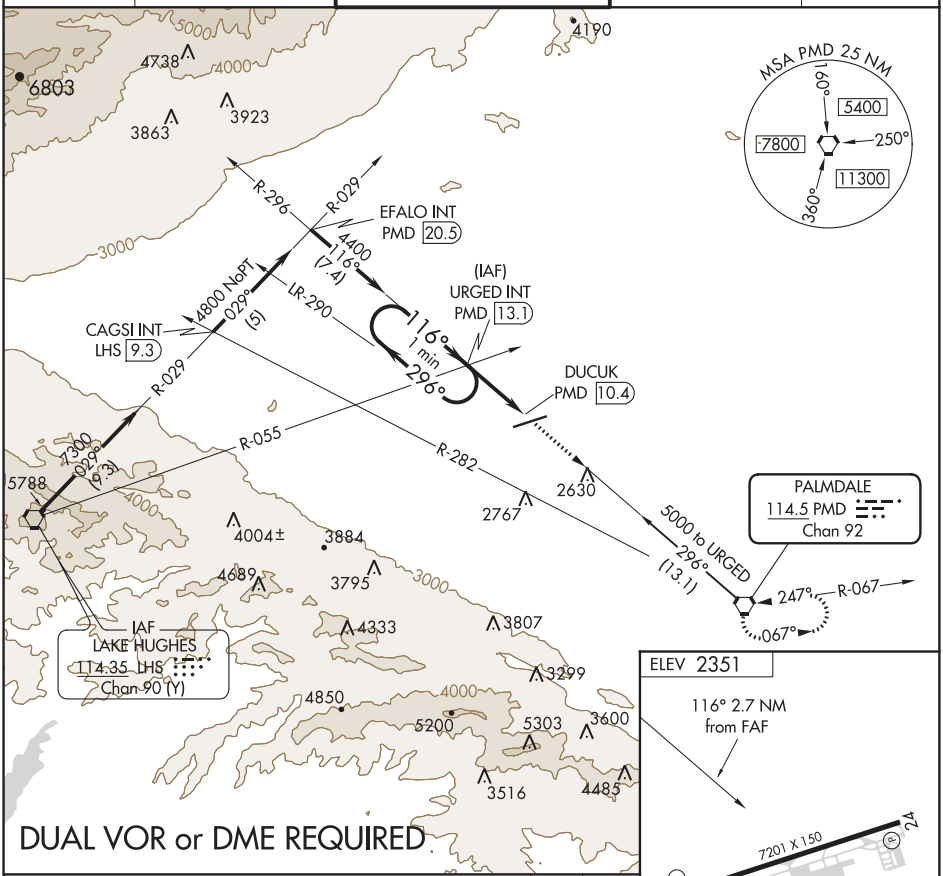
VOR-B

GENERAL WM J FOX AIRFIELD (WJF)

T
A

MISSED APPROACH: Climb to 4500 direct PMD VORTAC and hold.

ATIS	JOSHUA APP CON	FOX TOWER *	GND CON	UNICOM
126.3	126.1 290.3	118.525 (CTAF) 256.9	121.7 256.9	122.95



CATEGORY	A	B	C	D
CIRCLING	3320-1¼ 969 (1000-1¼)	3320-1½ 969 (1000-1½)	3320-3 969 (1000-3)	

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-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

LANCASTER, CALIFORNIA
Amdt 3 21FEB02

34°44'N-118°13'W

GENERAL WM J FOX AIRFIELD (WJF)
VOR-B

AIRPORT DIAGRAM

GENERAL WM J FOX AIRFIELD (WJF)
LANCASTER, CALIFORNIA

AL-5065 (FAA)

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086

LANCASTER, CALIFORNIA
GENERAL WM J FOX AIRFIELD (WJF)

LOMPOC, CALIFORNIA

AL-6346 (FAA)

19171

RNAV (GPS) RWY 25

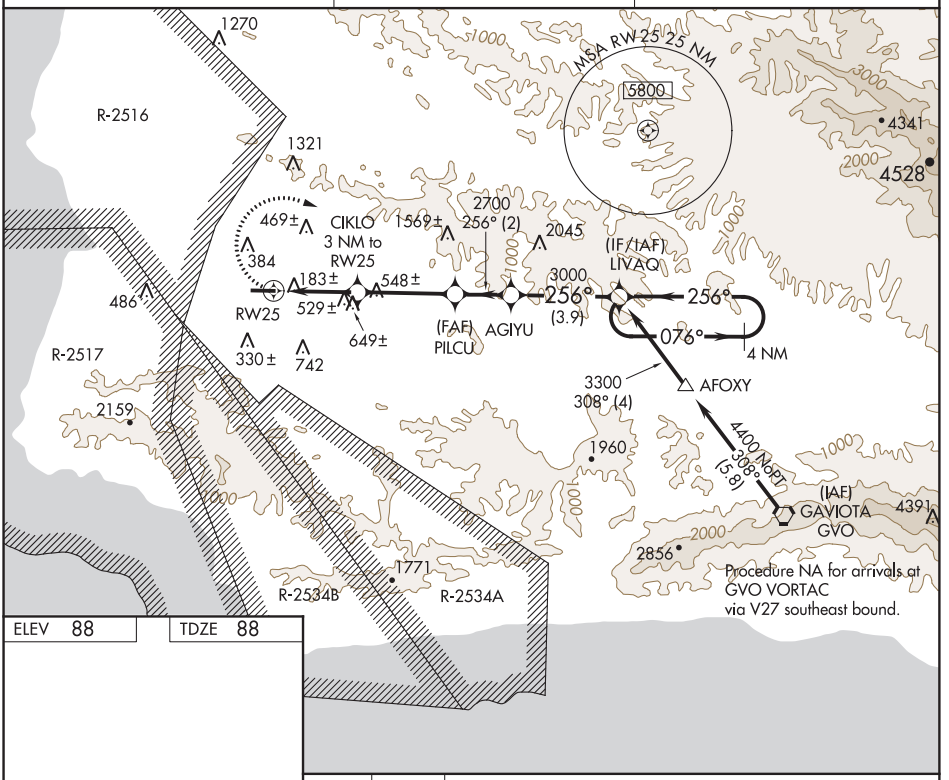
LOMPOC (LPC)

APP CRS	Rwy Idg	4600
256°	TDZE	88
	Apt Elev	88

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Santa Maria Public/Captain G Allan Hancock Field altimeter setting and increase all MDA 60 feet, and increase visibility LNAV and Circling Cat B ¼ mile.

MISSED APPROACH: Climbing right turn to 3300 direct LIVAQ and hold.

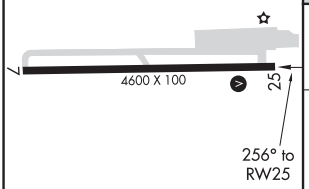
AWOS-3PT	SANTA BARBARA APP CON★	UNICOM
133.875	124.15 327.8	122.7 (CTAF)

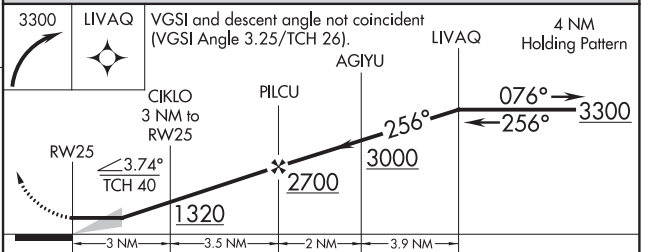


SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ELEV 88 | TDZE 88





CATEGORY	A	B	C	D
LNAV MDA	1000-1¼	912 (1000-1¼)	NA	
CIRCLING	1000-1¼	912 (1000-1¼)	NA	

REIL Rwy 25 (L)
MIRL Rwy 7-25 (L)

LOMPOC, CALIFORNIA
Amdt 1B 10DEC15

34°40'N-120°28'W

LOMPOC (LPC)

RNAV (GPS) RWY 25

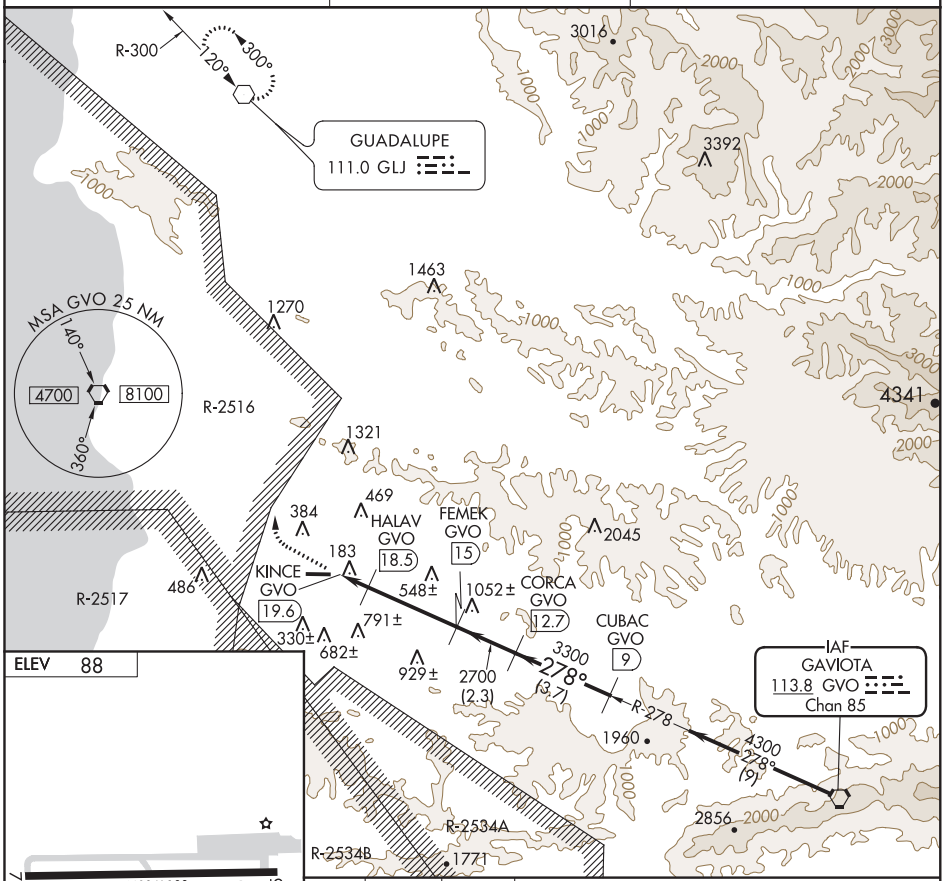
VORTAC GVO 113.8 Chan 85	APP CRS 278°	Rwy Idg N/A TDZE N/A Apt Elev 88

VOR/DME-A
LOMPOC (LPC)

MISSED APPROACH: Climb to 1400, then climbing right turn to 3500 direct GLJ VOR and hold.

AWOS-3PT 133.875	SANTA BARBARA APP CON★ 124.15 327.8	UNICOM 122.7 (CTAF) L

SW-3, 05 NOV 2020 to 31 DEC 2020



CATEGORY	A	B	C	D
CIRCLING	1340-1¼ 1252 (1300-1¼)	1340-1½ 1252 (1300-1½)	NA	

REIL Rwy 25 L
MIRL Rwy 7-25 L

LONG BEACH, CALIFORNIA AL-236 (FAA) 20254

ILS or LOC RWY 30

LONG BEACH/DAUGHERTY FIELD (LGB)

LOC I-LGB	APP CRS	Rwy Idg	7414
110.3	301°	TDZE	38
		Apt Elev	60

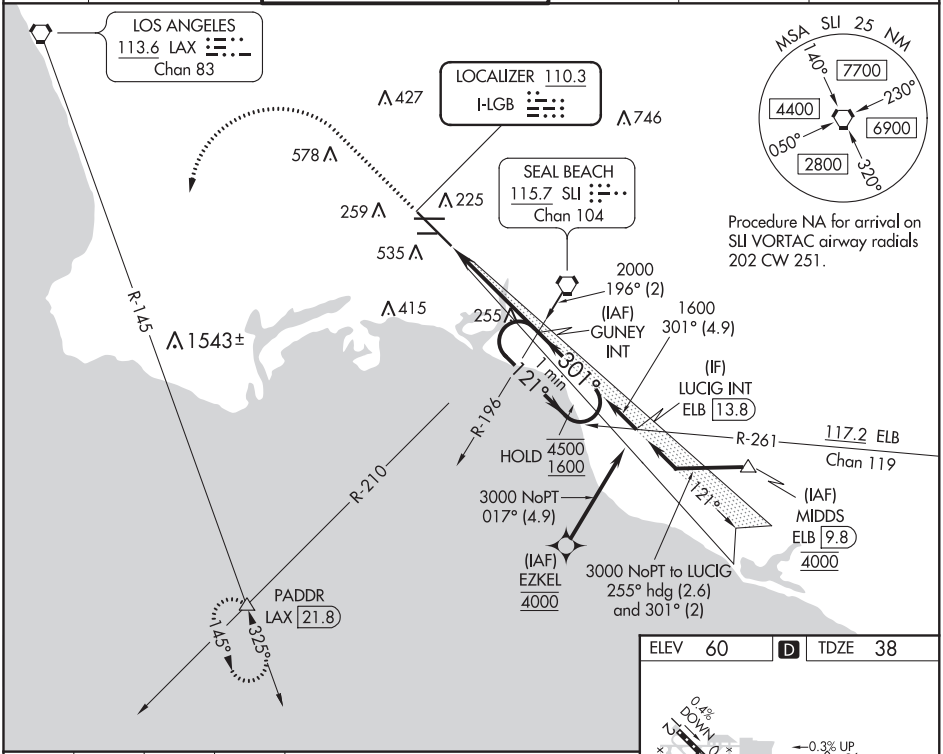
From EZKEL: RNAV 1-GPS required.

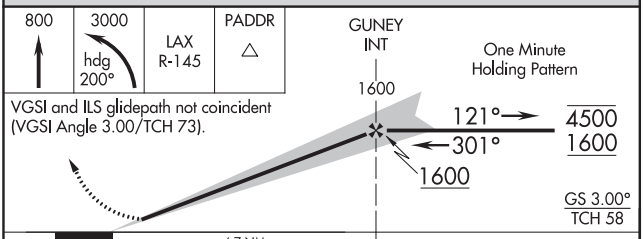
T A For inop ALS, increase S-LOC 30 Cats C/D visibility to 1⅜ SM.

MALSR

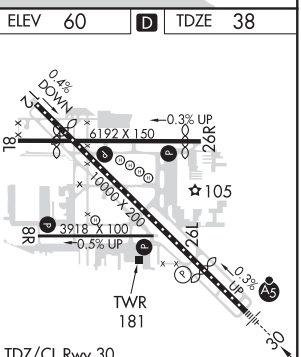
MISSED APPROACH: Climb to 800 then climbing left turn to 3000 on heading 200° and LAX VORTAC R-145 to PADDR INT/LAX 21.8 DME and hold.

ATIS	SOCAL APP CON	LONG BEACH TOWER ★	GND CON	CLNC DEL	UNICOM
127.75	125.35 316.125	120.5 257.6 (Rwy 12) 119.4 (CTAF) L 257.6 (Rwy 30)	133.0 257.6	118.15	122.95





CATEGORY	A	B	C	D
S-ILS 30	258/18	220 (200-½)		
S-LOC 30	520/24	482 (500-½)	520/50	482 (500-1)
C CIRCLING	840-1	780 (800-1)	840-2¼ 780 (800-2¼)	840-2½ 780 (800-2½)



TDZ/CL Rwy 30
HIRL Rwy 12-30
HIRL Rwy 8R-26L L
MIRL Rwy 8L-26R L
REIL Rwys 8R, 12, 26L, and 26R L

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-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	8650
121°	TDZE	53
	Apt Elev	60

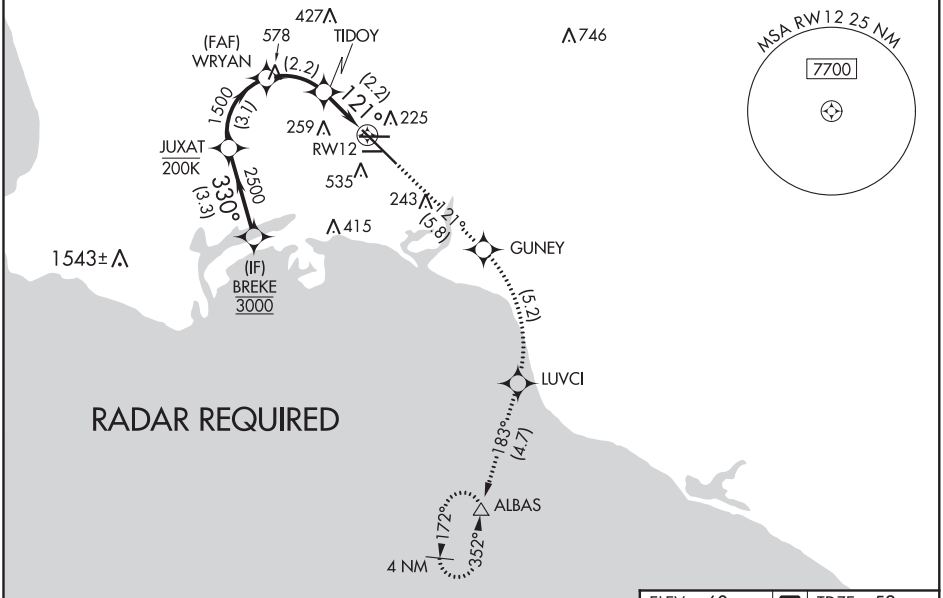
RNAV (RNP) RWY 12

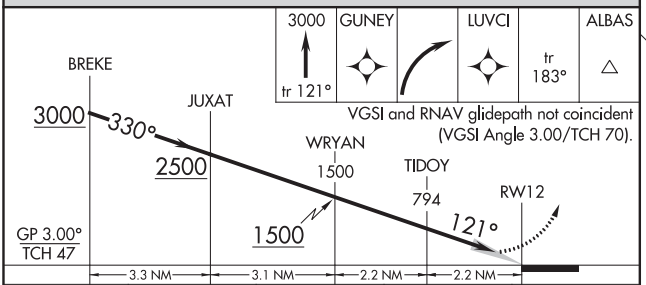
LONG BEACH/DAUGHERTY FIELD (LGB)

For uncompensated Baro-VNAV systems, procedure NA below 4°C (40°F) or above 54°C (130°F).
RF required. GPS required.

MISSED APPROACH: Climb to 3000 on track 121° to GUNEY, right turn to LUVCI, and on track 183° to ALBAS and hold.

ATIS	SOCAL APP CON	LONG BEACH TOWER ★	GND CON	CLNC DEL	UNICOM
127.75	125.35 316.125	120.5 257.6 (Rwy 12) 119.4 (CTAF) L 257.6 (Rwy 30)	133.0 257.6	118.15	122.95

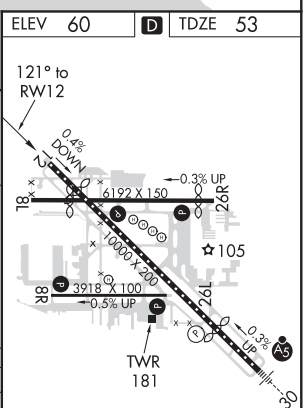




VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 70).

CATEGORY	A	B	C	D
RNP 0.15 DA	414-1¼ 361 (400-1¼)			
RNP 0.30 DA	485-1½ 432 (500-1½)			

AUTHORIZATION REQUIRED



TDZ/CL Rwy 30
HIRL Rwy 12-30
HIRL Rwy 8R-26L L
MIRL Rwy 8L-26R L
REIL Rwys 8R, 12, 26L, and 26R L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (RNP) RWY 26R

LONG BEACH/DAUGHERTY FIELD (LGB)

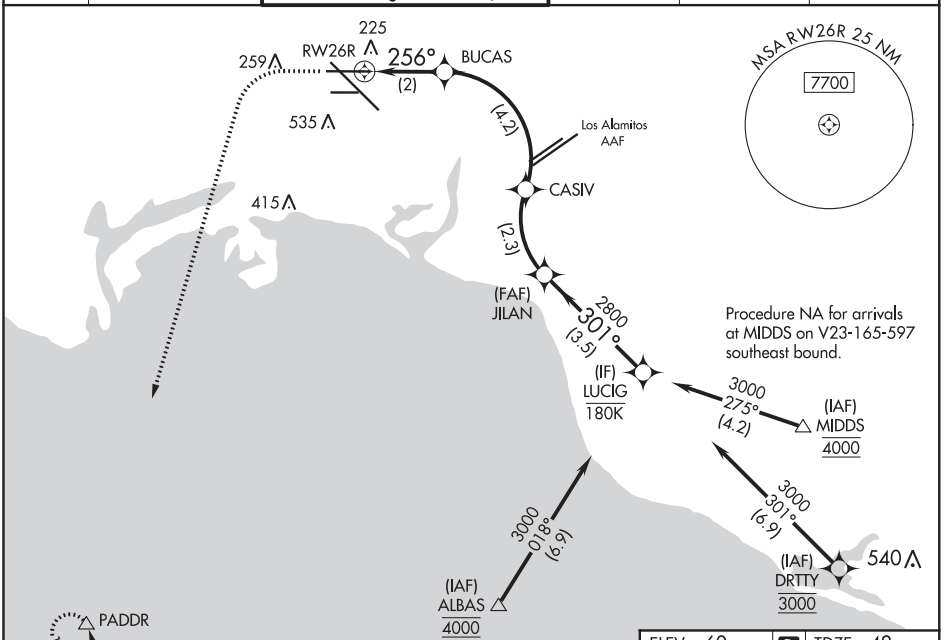
APP CRS	Rwy Idg	5660
256°	TDZE	48
	Apt Elev	60

RNP AR APCH. RF required.

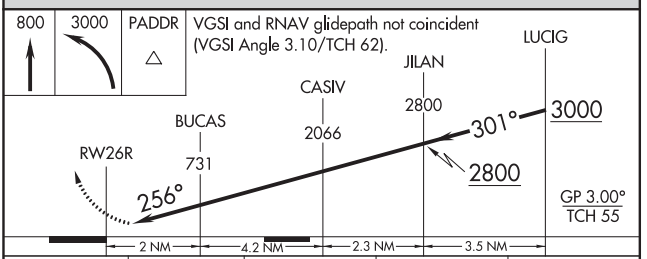
T A For uncompensated Baro-VNAV systems, procedure NA below 4°C (40°F) or above 54°C (130°F).

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

ATIS	SOCAL APP CON	LONG BEACH TOWER★	GND CON	CLNC DEL	UNICOM
127.75	125.35 316.125	120.5 257.6 (Rwy 12) 119.4 (CTAF) L 257.6 (Rwy 30)	133.0 257.6	118.15	122.95

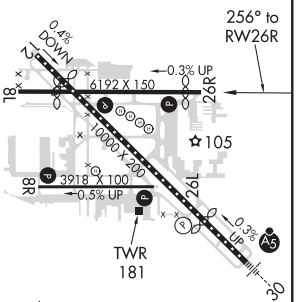


ELEV 60 D TDZE 48



CATEGORY	A	B	C	D
RNP 0.15 DA	320-1 272 (300-1)			
RNP 0.30 DA	415-1¼ 367 (400-1¼)			

AUTHORIZATION REQUIRED



TDZ/CL Rwy 30
HIRL Rwy 12-30
HIRL Rwy 8R-26L L
MIRL Rwy 8L-26R L
REIL Rwys 8R, 12, 26L, and 26R L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (RNP) Y RWY 30

LONG BEACH/DAUGHERTY FIELD (LGB)

APP CRS	Rwy Idg	7414
301°	TDZE	38
	Apt Elev	60

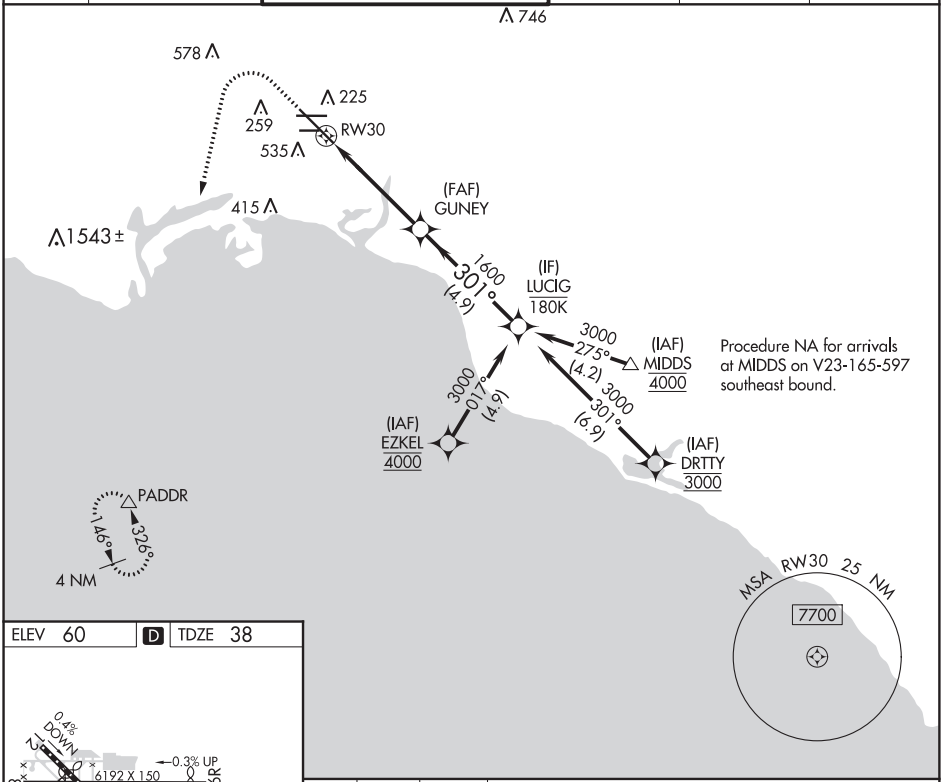
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below 4° C or above 54° C.

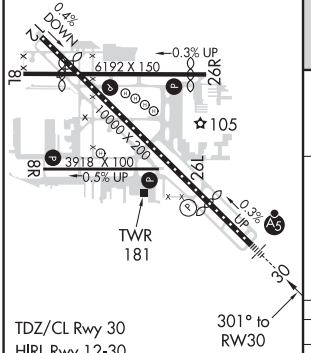
MALSR

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

ATIS	SOCAL APP CON	LONG BEACH TOWER ★	GND CON	CLNC DEL	UNICOM
127.75	125.35 316.125	120.5 257.6 (Rwy 12) 119.4 (CTAF) L 257.6 (Rwy 30)	133.0 257.6	118.15	122.95



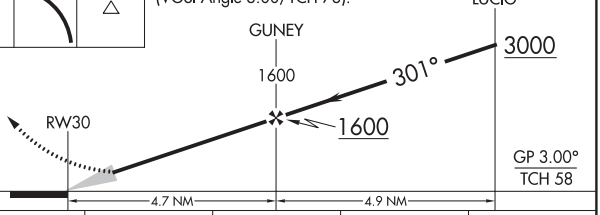
ELEV 60 D TDZE 38



TDZ/CL Rwy 30
HIRL Rwy 12-30
HIRL Rwy 8R-26L L
MIRL Rwy 8L-26R L
REIL Rwys 8R, 12, 26L, and 26R L

800 | 3000 | PADDR

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 73).



CATEGORY	A	B	C	D
RNP 0.30 DA	384/30 346 (400-5/8)			

AUTHORIZATION REQUIRED

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) Z RWY 30

LONG BEACH/DAUGHERTY FIELD (LGB)

WAAS	APP CRS	Rwy ldg	7414
CH 99521	301°	TDZE	38
W30A		Apt Elev	60

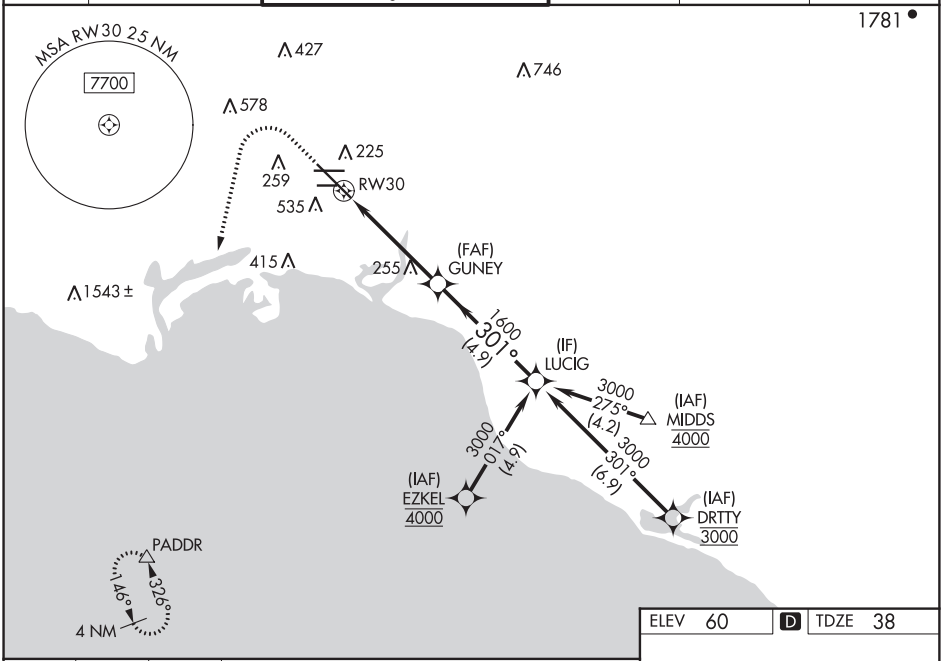
RNP APCH.

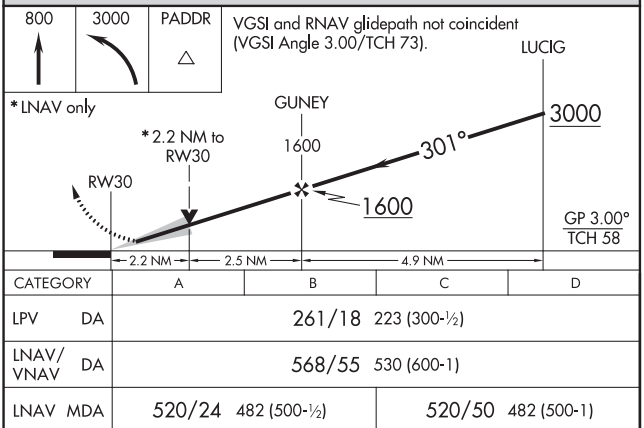
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 4°C or above 54°C. For inop ALS, increase LNAV Cat C and D visibility to 1⅜ SM.

MALSR

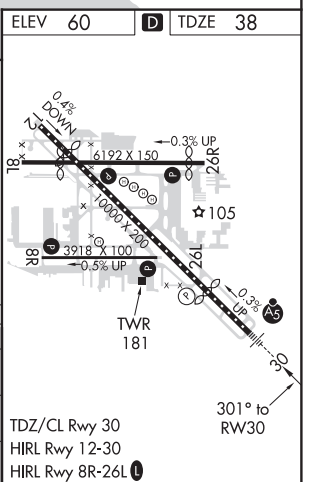
MISSED APPROACH: Climb to 800 then climbing left turn to 3000 direct PADDR and hold

ATIS	SOCAL APP CON	LONG BEACH TOWER★	GND CON	CLNC DEL	UNICOM
127.75	125.35 316.125	120.5 257.6 (Rwy 12) 119.4 (CTAF) L 257.6 (Rwy 30)	133.0 257.6	118.15	122.95





CATEGORY	A	B	C	D
LPV DA	261/18 223 (300-½)			
LNAV/VNAV DA	568/55 530 (600-1)			
LNAV MDA	520/24 482 (500-½)		520/50 482 (500-1)	
C CIRCLING	840-1 780 (800-1)		840-1⅜ 780 (800-1⅜)	



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC SLI	APP CRS	Rwy Idg	7414
115.7	275°	TDZE	38
Chan 104		Apt Elev	60

VOR or TACAN RWY 30

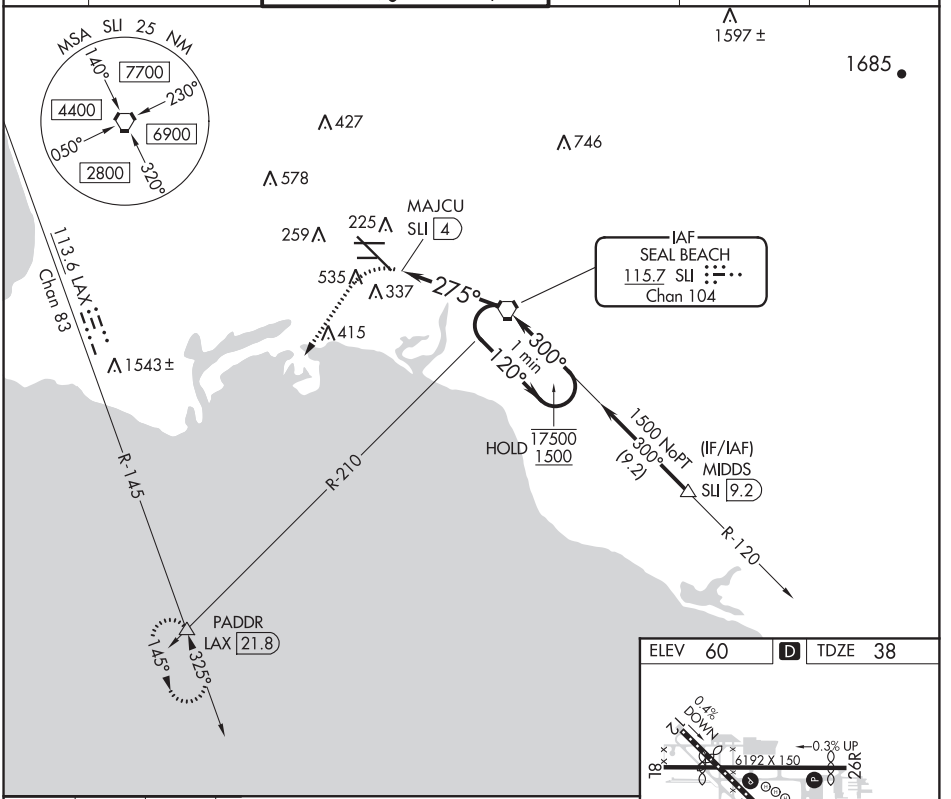
LONG BEACH/DAUGHERTY FIELD (LGB)

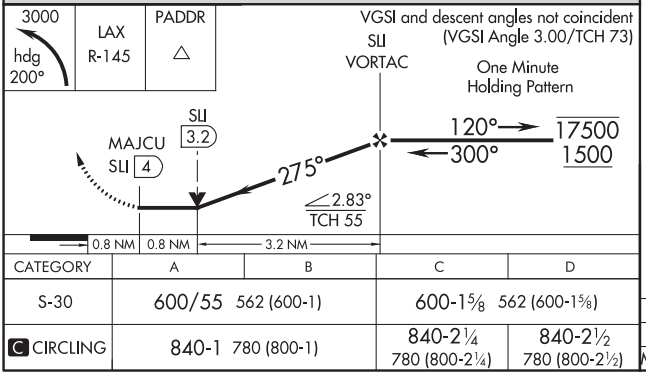
T A Rwy 30 helicopter visibility reduction below RVR 4000 NA. Inop table does not apply.

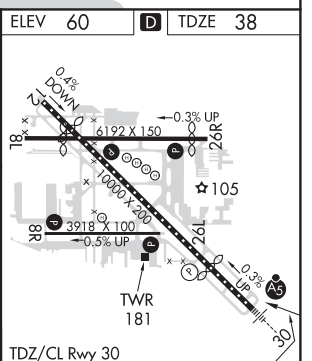
MALSR A5

MISSED APPROACH: Climbing left turn to 3000 on heading 200° and LAX VORTAC R-145 to PADDR INT/LAX 21.8 DME and hold.

ATIS	SOCAL APP CON	LONG BEACH TOWER★	GND CON	CLNC DEL	UNICOM
127.75	125.35 316.125	120.5 257.6 (Rwy 12) 119.4 (CTAF) L 257.6 (Rwy 30)	133.0 257.6	118.15	122.95







CATEGORY	A	B	C	D
S-30	600/55 562 (600-1)		600-1⅝ 562 (600-1⅝)	
C CIRCLING	840-1 780 (800-1)		840-2¼ 780 (800-2¼)	840-2½ 780 (800-2½)

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

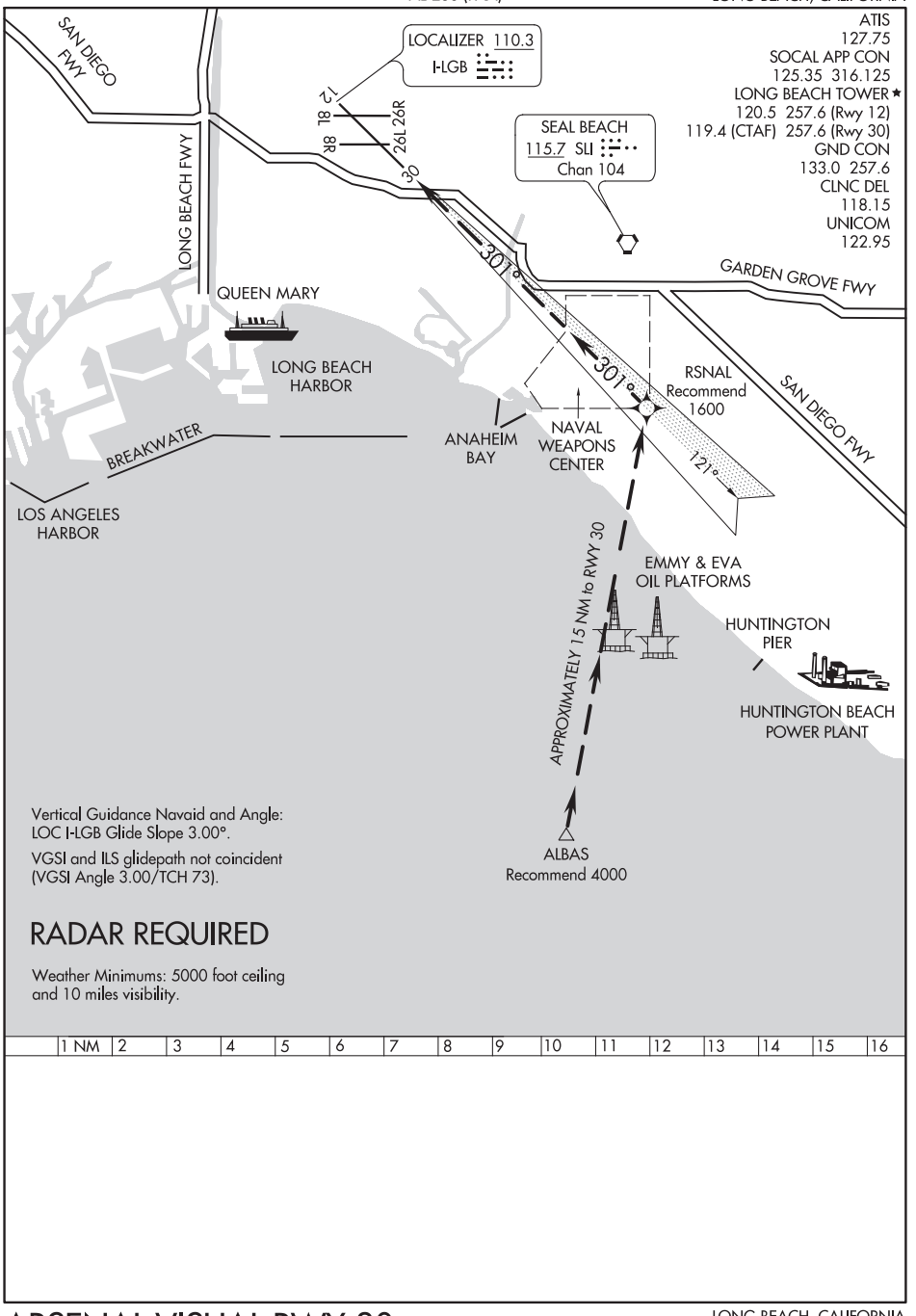
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

18200

ARSENAL VISUAL RWY 30

AL-236 (FAA)

LONG BEACH/DAUGHERTY FIELD (LGB)
LONG BEACH, CALIFORNIA



Vertical Guidance Navaid and Angle:
LOC I-LGB Glide Slope 3.00°.

VGSI and ILS glidepath not coincident
(VGSI Angle 3.00/TCH 73).

RADAR REQUIRED

Weather Minimums: 5000 foot ceiling and 10 miles visibility.

1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

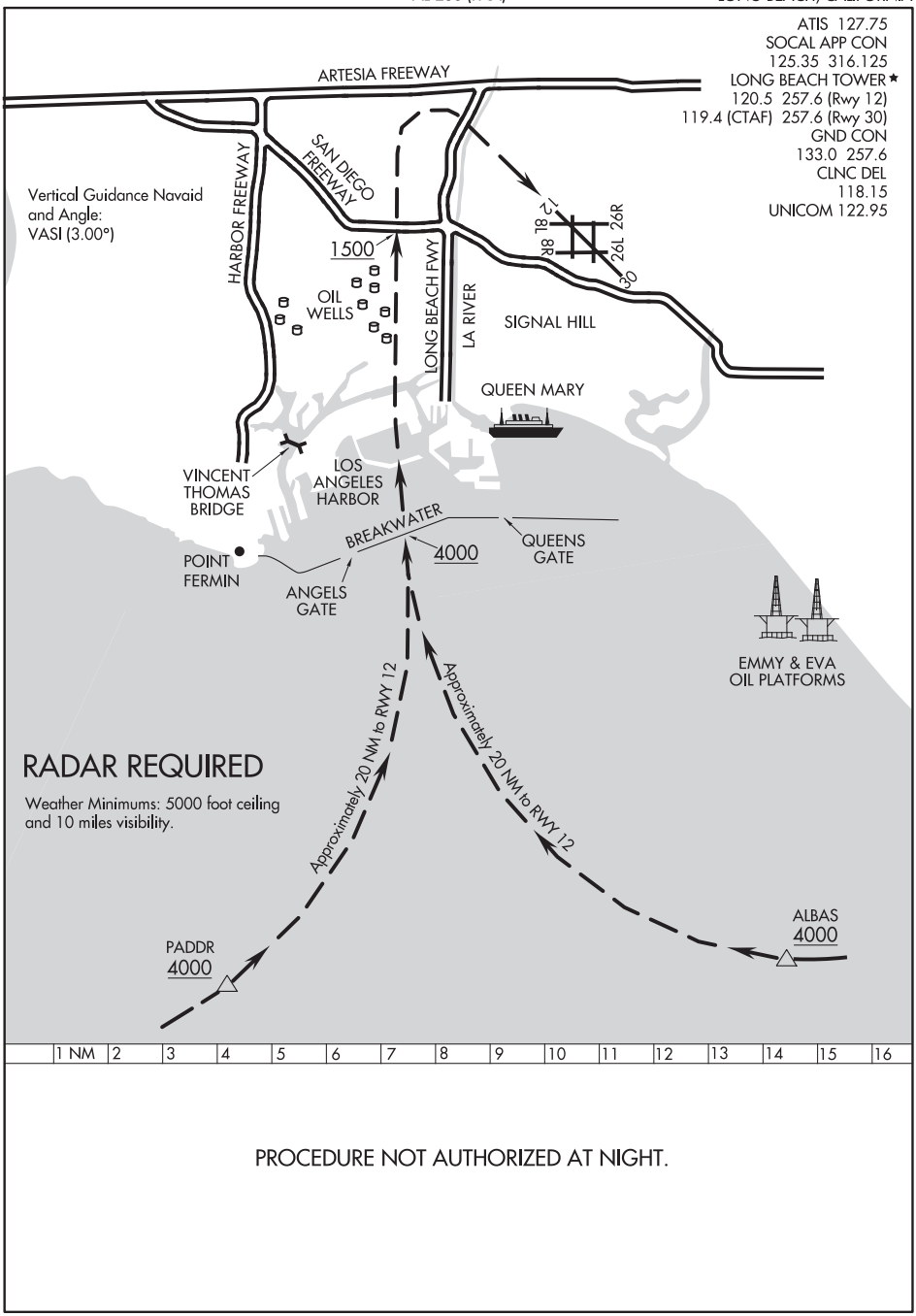
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

LA RIVER VISUAL RWY 12

AL-236 (FAA)

LONG BEACH/DAUGHERTY FIELD (LGB)
LONG BEACH, CALIFORNIA



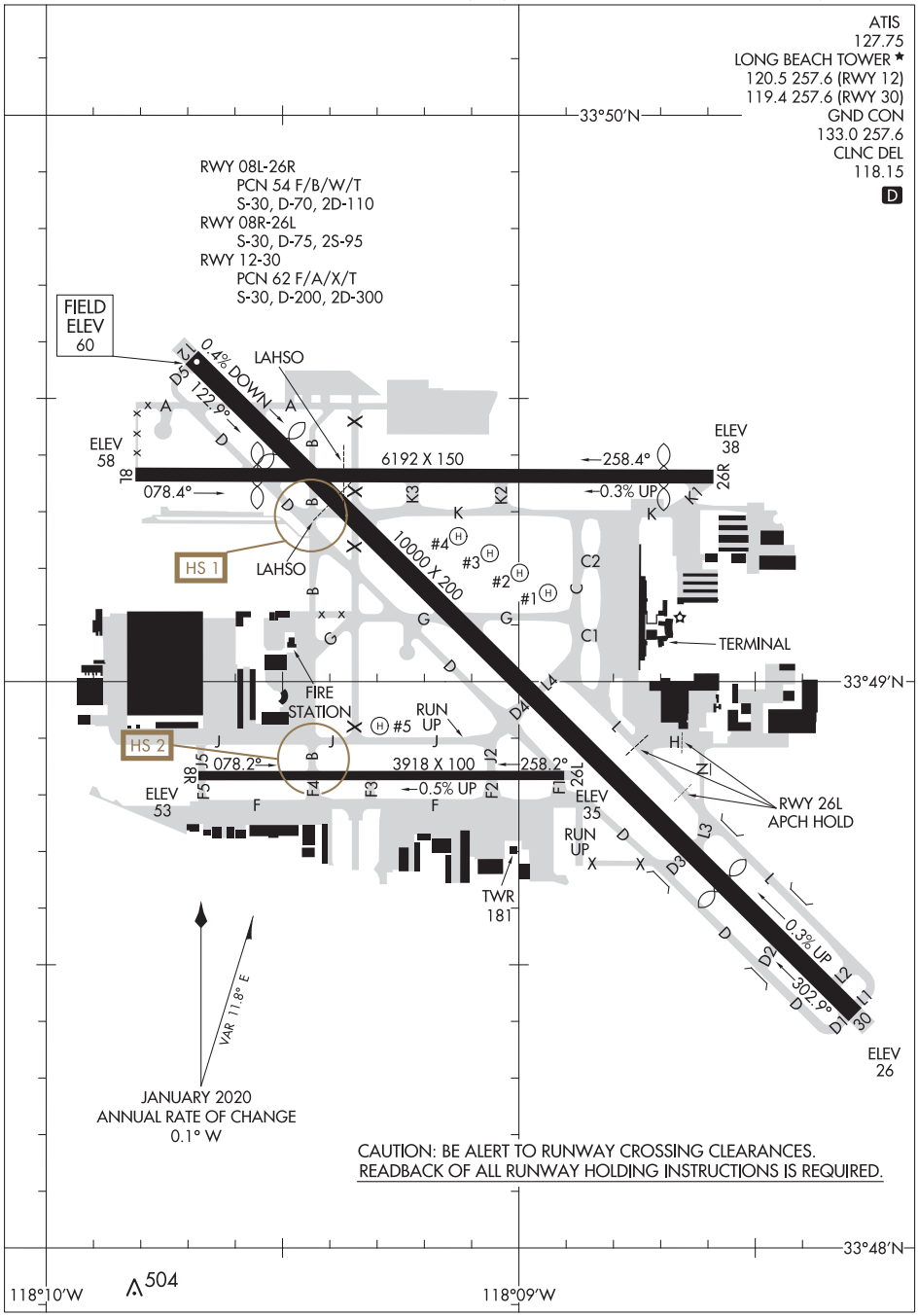
PROCEDURE NOT AUTHORIZED AT NIGHT.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

20310
AIRPORT DIAGRAM

LONG BEACH/DAUGHERTY FIELD/ (LGB)
AL-236 (FAA)
LONG BEACH, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20310
LONG BEACH, CALIFORNIA
LONG BEACH/DAUGHERTY FIELD/ (LGB)

ANAHEIM ONE DEPARTURE

(ANAHM1.SLI) 19JUL18

LONG BEACH/DAUGHERTY FIELD (LGB)

LONG BEACH, CALIFORNIA

ANAHEIM ONE DEPARTURE

(ANAHM1.SLI) 20310

LONG BEACH/DAUGHERTY FIELD (LGB)

LONG BEACH, CALIFORNIA

AL-236 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS 127.75
CLNC DEL 118.15
GND CON 133.0 257.6
SOCAL DEP CON
125.35 316.125 (Rwys 8L/R, 12) HECTOR OR LAKE HUGHES TRANSITIONS
125.35 316.125 (Rwys 8L/R, 12) VENTURA TRANSITION
127.2 269.6 (Rwys 26L/R, 30) HECTOR OR LAKE HUGHES TRANSITIONS
134.9 360.7 (Rwys 26L/R, 30) VENTURA TRANSITION

TAKEOFF MINIMUMS
Rwys 8L/R, 12, 30: Standard.
Rwy 26L: Standard with minimum climb of 225′ per NM to 2300.
Rwy 26R: Standard with minimum climb of 230′ per NM to 2300.

LAKE HUGHES
114.35 LHS
Chan 90 (Y)
N34°40.98′-W118°34.62′
L-3-4-7

VAN NUYS
113.1 VNY
Chan 78

VENTURA
108.2 VTU
Chan 19
N34°06.90′-W119°02.97′
L-3-4-7, H-4

LOS ANGELES
113.6 LAX
Chan 83
N33°55.99′-W118°25.92′

PALMDALE
114.5 PMD
Chan 92

VICTORVILLE
109.05 VCV
Chan 27(Y)

APLES
N34°32.91′
W117°08.97′
10000

DARTS
N34°09.36′
W118°16.18′

POMONA
110.4 POM
Chan 41

BAYJY
N34°00.44′
W117°47.14′

HECTOR
112.7 HEC
Chan 74
N34°47.82′
W116°27.78′
L-7, H-4

SADDE
N34°02.34′
W118°45.88′

WILMA
N33°46.27′
W118°15.57′

POXKU
N33°51.22′
W117°46.94′

PARADISE
112.2 PDZ
Chan 59
N33°55.10′-W117°31.80′

SEAL BEACH
115.7 SLI
Chan 104
N33°47.00′-W118°03.29′

112.5 FIM Chan 72
113.2 DAG Chan 79

R-139 8000 319° (35) V459
R-095 12
R-081
R-089
R-214 10000 *8300 052° (37) R-232 V442
R-148
R-093 5000 273° (15) V299
18 15 4
V299 5000 276° (18)
R-123 3200 303° (13)
V23-25-165
V186 5000 275° (26)
25 SLI R-319
R-164 4
800 301° 256° 076° 256° 076° 121° 800
V363 4000 344° (9)
5000† 4000†† 058° (14) 15 13
V8-64 3000 251° (10)
V8-21
9000 *8000 012° (42) V442
5000 058° (13) V8-21 R-238

†Hector Transition
††Lake Hughes Transition

NOTE: Chart not to scale.
NOTE: RADAR required.
NOTE: This departure procedure not authorized for turbo-prop or turbo-jet aircraft.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R: Climb heading 076° to 800, thence. . . .
TAKEOFF RUNWAY 12: Climb heading 121° to 800, thence. . . .
TAKEOFF RUNWAYS 26L/R: Climb heading 256° to 800, thence. . . .
TAKEOFF RUNWAY 30: Climb heading 301° to 800, thence. . . .
HECTOR or LAKE HUGHES TRANSITION: Expect vectors to SLI VORTAC.
VENTURA TRANSITION: Expect vectors to LAX VORTAC.

. . . .on (transition) or (assigned route). Maintain assigned altitude and expect filed altitude 10 minutes after departure.

HECTOR TRANSITION (ANAHM1.HEC): From over SLI VORTAC on SLI R-058 and PDZ R-238 to PDZ VORTAC, then on PDZ R-012 to APLES, then on HEC R-232 to HEC VORTAC.

LAKE HUGHES TRANSITION (ANAHM1.LHS): From over SLI VORTAC on SLI R-058 and PDZ R-238 to POXKU, then on POM R-164 to BAYJY, then on VNY R-095 to DARTS, then on LHS R-139 to LHS VORTAC.

VENTURA TRANSITION (ANAHM1.VTU): From over SLI VORTAC on SLI R-251 to WILMA, then on LAX R-123 to LAX VORTAC, then on LAX R-276 to SADDE, then on VTU R-093 to VTU VOR/DME.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

FRITR THREE DEPARTURE (RNAV)

(FRITR3.DOTSS) 13SEP18

LONG BEACH/DAUGHERTY FIELD (LGB)

LONG BEACH, CALIFORNIA

(FRITR3.DOTSS) 18256

FRITR THREE DEPARTURE (RNAV)

AL-236 (FAA)

LONG BEACH/DAUGHERTY FIELD (LGB)

LONG BEACH, CALIFORNIA

ATIS
127.75
CLNC DEL
118.15
GND CON
133.0 257.6
LONG BEACH TOWER★
119.4 257.6 (Rwy 12)
120.5 257.6 (Rwy 30)
SOCAL DEP CON
125.35 316.125 (Rwy 12)
127.2 269.6 (Rwy 26R, 30)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 12: Climb heading 121° to 600, then on heading 121° or as assigned by ATC for vectors to cross FRITR at or above 5000, then on track 076° to DOTSS, thence. . . .

TAKEOFF RUNWAY 26R: Climb heading 256° to 580, then on heading 180° or as assigned by ATC for vectors to cross FRITR at or above 5000, then on track 076° to DOTSS, thence. . . .

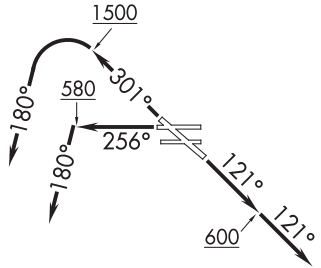
TAKEOFF RUNWAY 30: Climb heading 301° to 1500, then left turn heading 180° or as assigned by ATC for vectors to cross FRITR at or above 5000, then on track 076° to DOTSS, thence. . . .

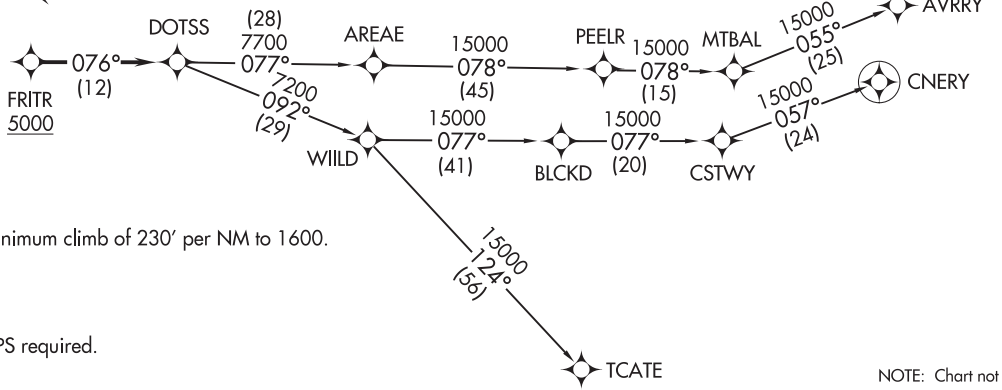
. . . .on (transition). Maintain 17000. Expect higher altitude 10 minutes after departure.

AVRRY TRANSITION (FRITR3.AVRRY)

CNERY TRANSITION (FRITR3.CNERY)

TCATE TRANSITION (FRITR3.TCATE)





TOP ALTITUDE: 17000

TAKEOFF MINIMUMS
Rwys 8L/R, 26L: NA-ATC.
Rwys 12, 30: Standard.
Rwy 26R: Standard with a minimum climb of 230′ per NM to 1600.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.

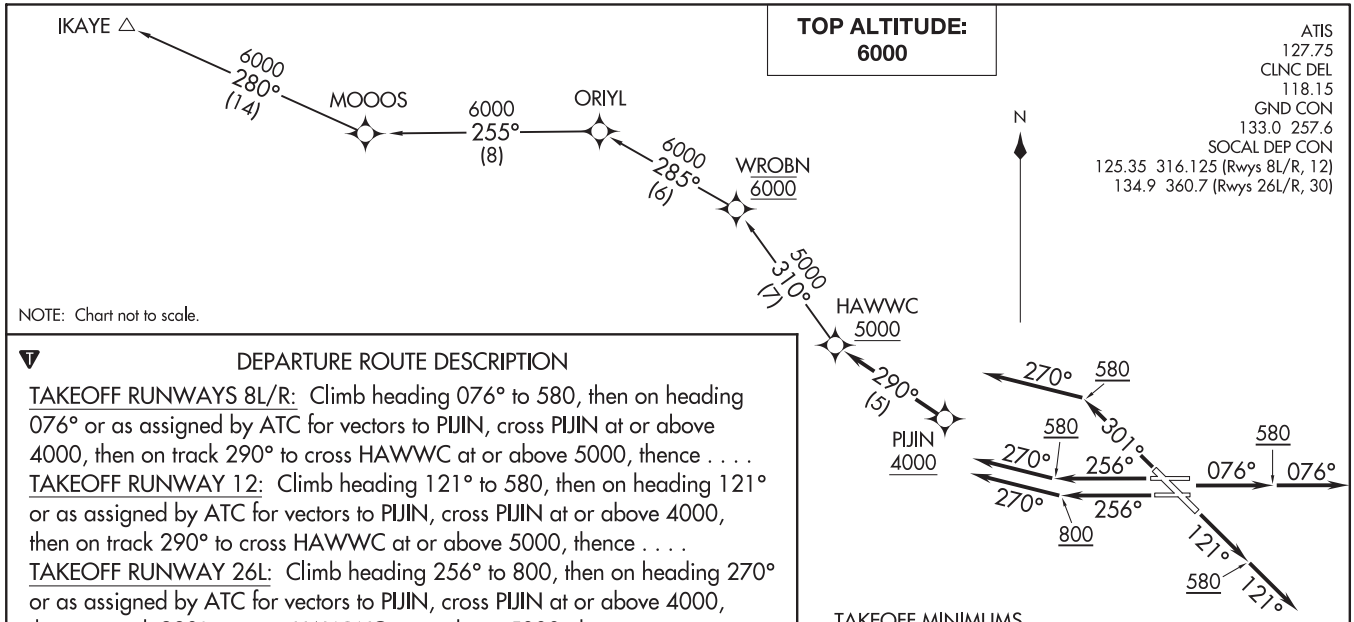
NOTE: Chart not to scale.

HAWWC THREE DEPARTURE (RNAV)

(HAWWC3.HAWWC) 19JUL18

LONG BEACH/DAUGHERTY FIELD (LGB)

LONG BEACH, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R: Climb heading 076° to 580, then on heading 076° or as assigned by ATC for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

TAKEOFF RUNWAY 12: Climb heading 121° to 580, then on heading 121° or as assigned by ATC for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

TAKEOFF RUNWAY 26L: Climb heading 256° to 800, then on heading 270° or as assigned by ATC for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

TAKEOFF RUNWAY 26R: Climb heading 256° to 580, then on heading 270° or as assigned by ATC for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

TAKEOFF RUNWAY 30: Climb heading 301° to 580, then on heading 270° or as assigned by ATC for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

. . . . on (transition). Maintain 6000. Expect higher altitude 10 minutes after departure.

IKAYE TRANSITION (HAWWC3.IKAYE)

TAKEOFF MINIMUMS

Rwys 8L/R, 12, 30: Standard.

Rwy 26L: Standard with minimum climb of 330′ per NM to 700.

Rwy 26R: Standard with minimum climb of 230′ per NM to 1600.

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: This procedure not authorized for turbojet aircraft.

HAWWC THREE DEPARTURE (RNAV)

(HAWWC3.HAWWC) 18200

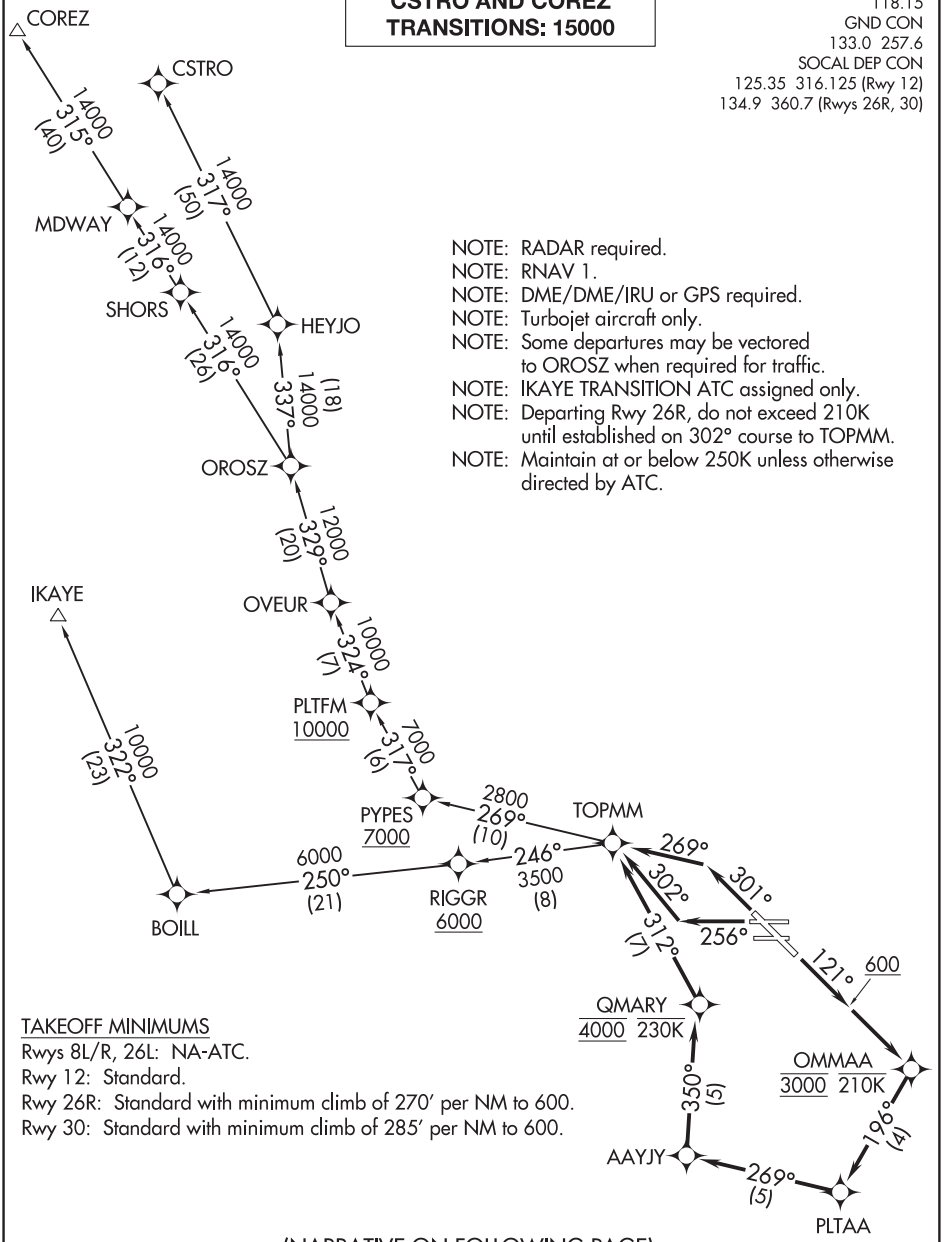
LONG BEACH/DAUGHERTY FIELD (LGB)

LONG BEACH, CALIFORNIA

AL-236 (FAA)

TOP ALTITUDE:
IKAYE TRANSITION: 12000;
CSTRO AND COREZ
TRANSITIONS: 15000

ATIS
127.75
CLNC DEL
118.15
GND CON
133.0 257.6
SOCAL DEP CON
125.35 316.125 (Rwy 12)
134.9 360.7 (Rwys 26R, 30)



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Some departures may be vectored to OROSZ when required for traffic.
NOTE: IKAYE TRANSITION ATC assigned only.
NOTE: Departing Rwy 26R, do not exceed 210K until established on 302° course to TOPMM.
NOTE: Maintain at or below 250K unless otherwise directed by ATC.

TAKEOFF MINIMUMS
Rwys 8L/R, 26L: NA-ATC.
Rwy 12: Standard.
Rwy 26R: Standard with minimum climb of 270′ per NM to 600.
Rwy 30: Standard with minimum climb of 285′ per NM to 600.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 12: Climb heading 121° to 600, then direct to cross OMMAA at 3000 and at or below 210K, then on track 196° to PLTAA, then on track 269° to AAYJY, then on track 350° to cross QMARY at 4000 and at or below 230K, then on track 312° to TOPMM, thence. . . .
TAKEOFF RUNWAY 26R: Climb heading 256° to intercept course 302° to TOPMM, thence. . . .
TAKEOFF RUNWAY 30: Climb heading 301° to intercept course 269° to TOPMM, thence. . . .

. . . .on (transition). IKAYE transition maintain 12000; COREZ and CSTRO transitions maintain 15000. Expect filed altitude 10 minutes after departure.

COREZ TRANSITION (TOPMM4.COREZ)

CSTRO TRANSITION (TOPMM4.CSTRO)

IKAYE TRANSITION (TOPMM4.IKAYE)

SW-3, 05 NOV 2020 to 31 DEC 2020

ZOOMM THREE DEPARTURE (RNAV)

AL-236 (FAA)

ZOOMM THREE DEPARTURE (RNAV)
(ZOOMM3.ZOOMM) 10SEP20
LONG BEACH, CALIFORNIA
LONG BEACH/DAUGHERTY FIELD (LGB)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 12: Climb on heading 121° to 600, then on heading 121° or as assigned by ATC for vectors to cross CAHIL at or above 15000, then on track 023° to cross ZOOMM at or above 16000, thence. . . .
TAKEOFF RUNWAY 26R: Climb on heading 256° to 580, then on heading 180° or as assigned by ATC for vectors to cross CAHIL at or above 15000, then on track 023° to cross ZOOMM at or above 16000, thence. . . .
TAKEOFF RUNWAY 30: Climb on heading 301° to 1500, then left turn heading 180° or as assigned by ATC for vectors to cross CAHIL at or above 15000, then on track 023° to cross ZOOMM at or above 16000, thence. . . .

. . . .on (transition) turbojets maintain 17000, expect filed altitude 10 minutes after departure.

BEALE TRANSITION (ZOOMM3.BEALE)
HAILO TRANSITION (ZOOMM3.HAILO)
LAS VEGAS TRANSITION (ZOOMM3.LAS)
MISEN TRANSITION (ZOOMM3.MISEN)
NNAVY TRANSITION (ZOOMM3.NNAVY)

SW-3, 05 NOV 2020 to 31 DEC 2020

LOS ALAMITOS, CALIFORNIA

RNAV (GPS) RWY 22L

APCH CRS	Rwy ldg	8001
223°	TDZE	35
	Arpt Elev	35

AL-953 (USA)

LOS ALAMITOS AAF (KSLI)

T ANA

* When ALS inop, increase CAT D vis to 1 mile.
** When ALS inop using SANTA ANA altimeter setting, increase CAT D vis to 1 1/8 mile.
*** Circling not authorized N of Rwy 4L-22R.

SALS (A2)

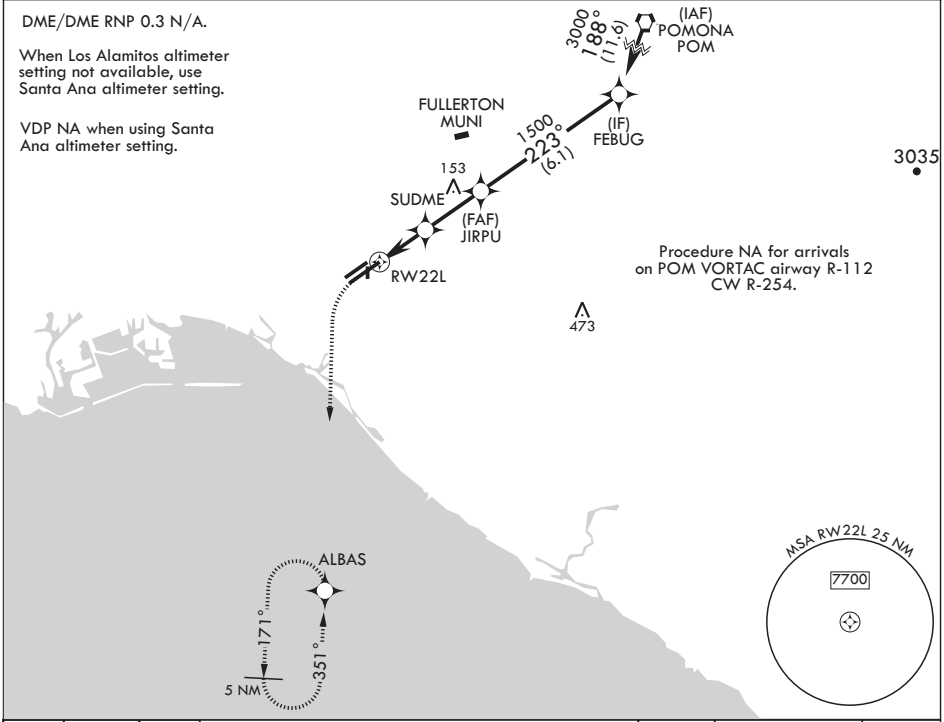
MISSED APPROACH: Climb to 500 then climbing left turn to 2100 direct ALBAS and hold.

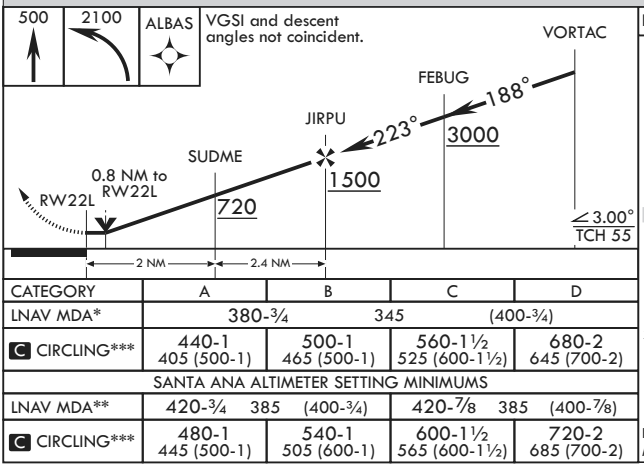
ATIS★	SOCAL APP CON	TOWER★	GND CON	ASR/PAR
118.875 379.975	125.35 316.125	123.85 251.15	126.95 257.95	

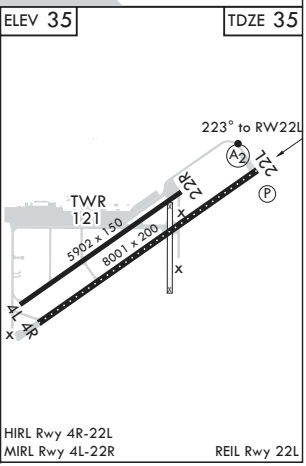
DME/DME RNP 0.3 N/A.

When Los Alamitos altimeter setting not available, use Santa Ana altimeter setting.

VDP NA when using Santa Ana altimeter setting.







CATEGORY	A	B	C	D
LNAV MDA*	380-¾		345	(400-¾)
C CIRCLING***	440-1 405 (500-1)	500-1 465 (500-1)	560-1½ 525 (600-1½)	680-2 645 (700-2)
SANTA ANA ALTIMETER SETTING MINIMUMS				
LNAV MDA**	420-¾	385 (400-¾)	420-⅞	385 (400-⅞)
C CIRCLING***	480-1 445 (500-1)	540-1 505 (600-1)	600-1½ 565 (600-1½)	720-2 685 (700-2)

HIRL Rwy 4R-22L
MIRL Rwy 4L-22R
REIL Rwy 22L

LOS ALAMITOS, CALIFORNIA

33°47'N - 118°03'W

LOS ALAMITOS AAF (KSLI)

Amdt 1 07DEC17

RNAV (GPS) RWY 22L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

LOS ALAMITOS, CALIFORNIA

VOR or TACAN RWY 22L

VORTAC SLI 115.7 Chan 104	APCH CRS 214°	Rwy Idg 8001 TDZE 35 Arpt Elev 35

AL-953 [USA]

LOS ALAMITOS AAF (KSLI)

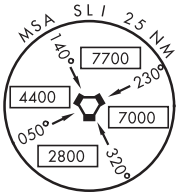
▼ * When ALS inop, increase vis CAT D ¼ mile.
** Circling not authorized N of Rwy 4L-22R.

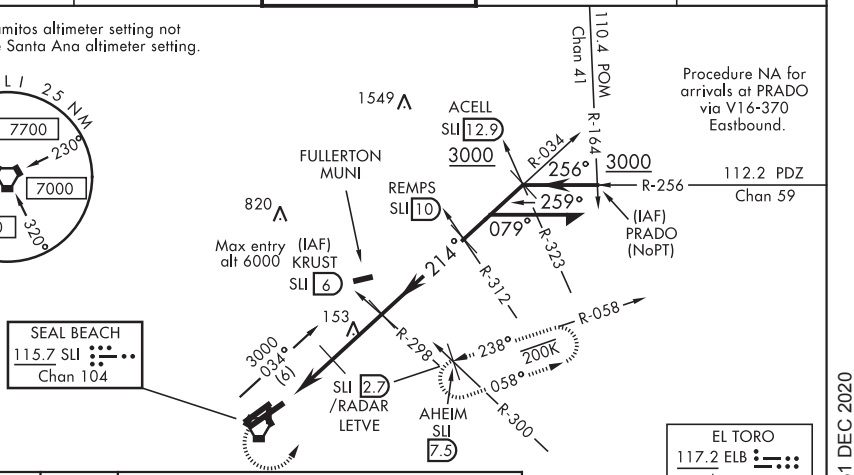
SALSF A2

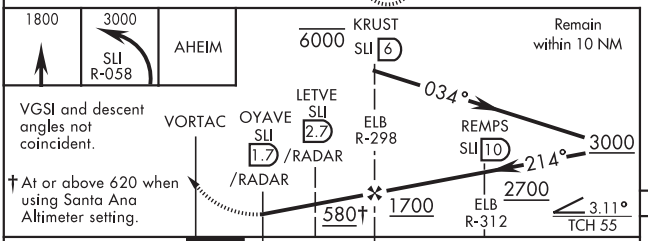
MISSED APPROACH: Climb to 1800, then climbing left turn to 3000 via SLI VORTAC R-058 to AHEIM INT and hold.

ATIS ★	SOCAL APP CON	LOS ALAMITOS TOWER ★	GND CON	ASR/PAR
118.875 379.975	125.35 316.125	123.85 251.15	126.95 257.95	

When Los Alamitos altimeter setting not available, use Santa Ana altimeter setting.

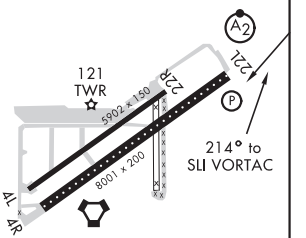






ELEV 35 TDZE 35

CATEGORY	A	B	C	D
S-22L *	440-¾ 405 (500-¾)		440-1 405 (500-1)	440-1¼ 405 (500-1¼)
CIRCLING **	440-1 405 (500-1)	500-1 465 (500-1)	500-1½ 465 (500-1½)	600-2 565 (600-2)
WITHOUT DME or RADAR				
S-22L	580-¾ 545 (600-¾)		580-1¼ 545 (600-1¼)	580-1½ 545 (600-1½)
CIRCLING **	580-1 545 (600-1)		580-1½ 545 (600-1½)	600-2 565 (600-2)
SANTA ANA ALTIMETER SETTING MINIMUMS				
S-22L *	480-¾ 445 (500-¾)		480-1 445 (500-1)	480-1½ 445 (500-1½)
CIRCLING **	480-1 445 (500-1)	540-1 505 (600-1)	540-1½ 505 (600-1½)	640-2 605 (700-2)
SANTA ANA ALTIMETER SETTING WITHOUT DME or RADAR				
S-22L	620-¾ 585 (600-¾)		620-1¼ 585 (600-1¼)	620-1¾ 585 (600-1¾)
CIRCLING **	620-1 585 (600-1)		620-1½ 585 (600-1½)	640-2 605 (700-2)

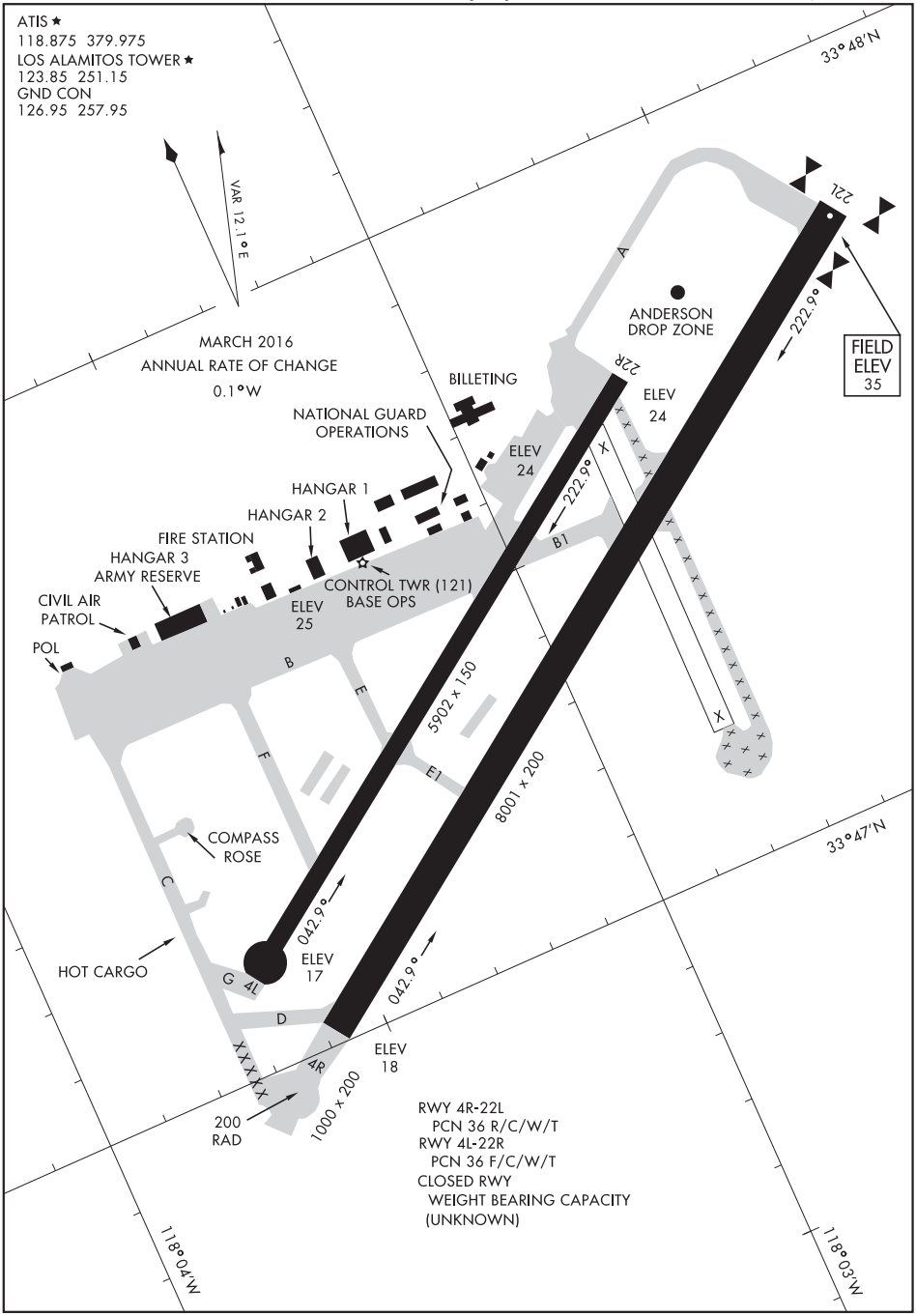


HIRL Rwy 4R-22L
MIRL Rwy 4L-22R
REIL Rwy 22L

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-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

HAWWC THREE DEPARTURE (RNAV)

(HAWWC3.HAWWC) 19JUL18

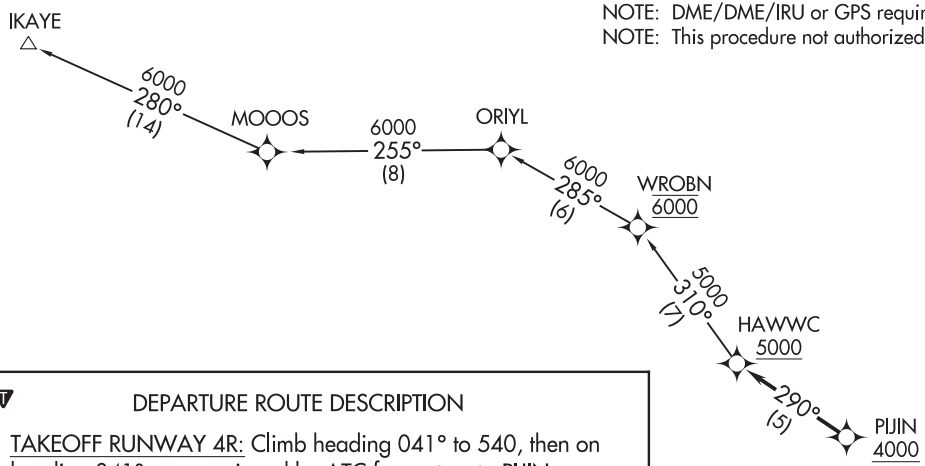
LOS ALAMITOS AAF (SLI)

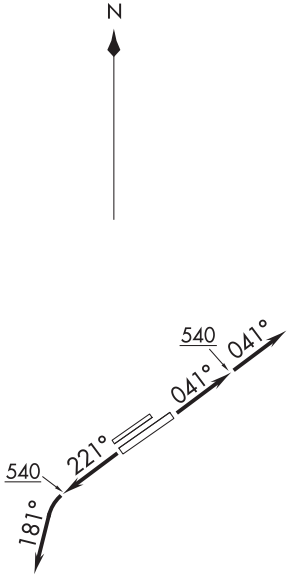
LOS ALAMITOS, CALIFORNIA

TOP ALTITUDE: 6000

GND CON
126.95 257.95
LOS ALAMITOS TOWER★
123.85 251.15
SOCAL DEP CON
125.35 316.125

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: This procedure not authorized for turbojet aircraft.





DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4R: Climb heading 041° to 540, then on heading 041° or as assigned by ATC for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

TAKEOFF RUNWAY 22L: Climb heading 221° to 540, then on heading 181° or as assigned by ATC for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

. . . . on (transition). Maintain 6000. Expect higher altitude 10 minutes after departure.

IKAYE TRANSITION (HAWWC3.IKAYE)

TAKEOFF MINIMUMS
Rwys 4L, 22R: NA-ATC.
Rwys 4R, 22L: Standard.

NOTE: Chart not to scale.

(HAWWC3.HAWWC) 18200

HAWWC THREE DEPARTURE (RNAV)

AL-953 (FAA)

LOS ALAMITOS AAF (SLI)

LOS ALAMITOS, CALIFORNIA

ILS or LOC RWY 6L
LOS ANGELES INTL (LAX)

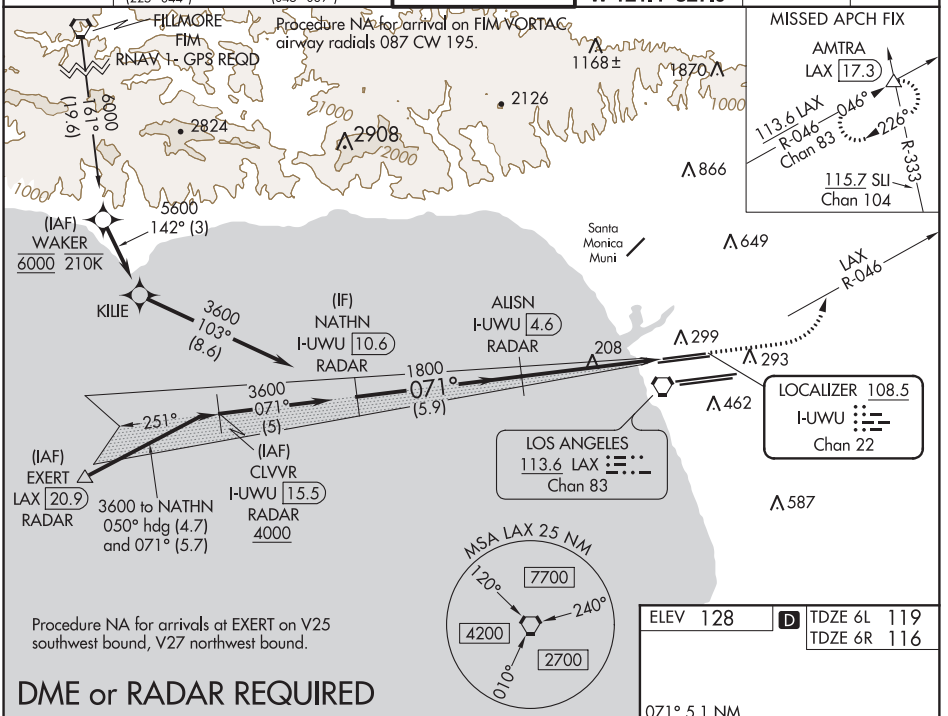
LOC/DME I-UWU	APP CRS		6L	6R
108.5	071°	Rwy Idg	8566	9748
Chan 22		TDZE	119	116
		Apt Elev	128	128

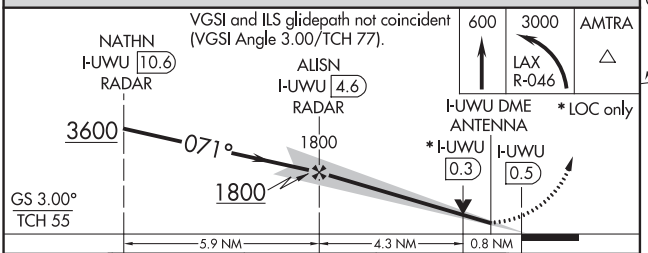
Inop table does not apply to Sidestep 6R Cats A/B. For inop ALS, increase S-LOC 6L Cat C/D visibility to RVR 5500. Simultaneous approach authorized.

MALSR Rwy 6L (A5) | MALSR Rwy 6R (A5)

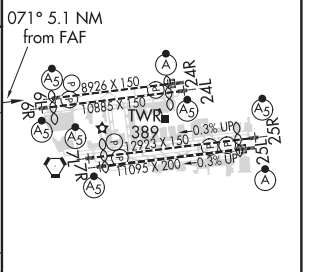
MISSED APPROACH: Climb to 600 then climbing left turn to 3000 on LAX VORTAC R-046 to AMTRA INT/LAX 17.3 DME and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0	327.0	
				W 121.4 327.0		





CATEGORY	A	B	C	D
S-ILS 6L	369/24 250 (300-½)			
S-LOC 6L	460/24 341 (400-½)		460/30 341 (400-⅝)	
SIDESTEP 6R	460/55 344 (400-1)			460-1½ 344 (400-1½)



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

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-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LOS ANGELES, CALIFORNIA

AL-237 (FAA)

20254

ILS or LOC RWY 6R

LOS ANGELES INTL (LAX)

LOC/DME I-GPE	APP CRS		6R	6L
111.7	071°	Rwy Idg	9748	8566
Chan 54		TDZE	116	119
		Apt Elev	128	128

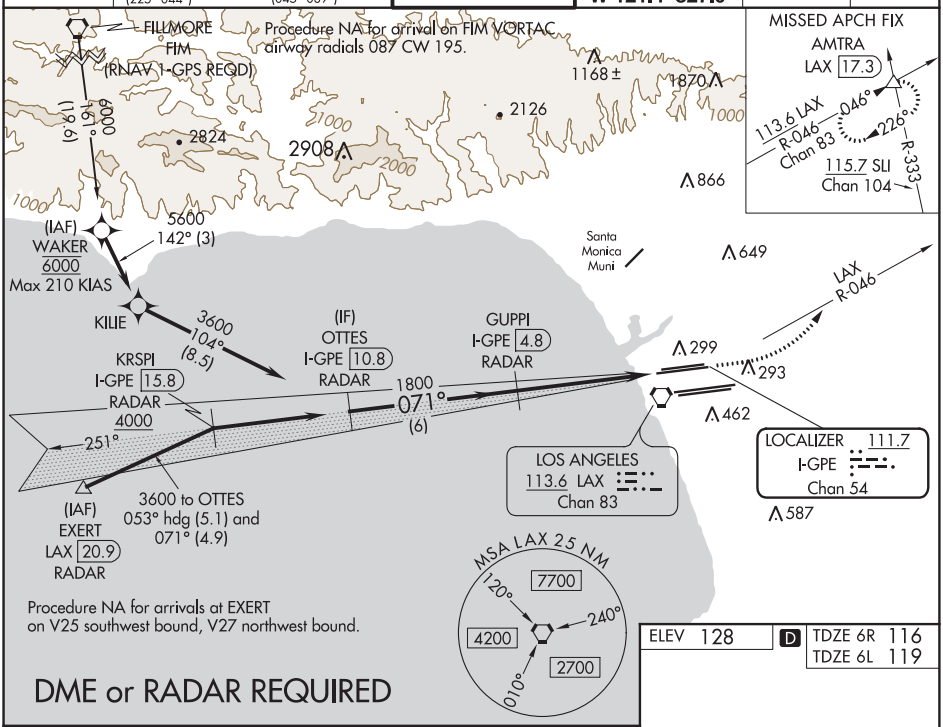
T Simultaneous approach authorized. For inop ALS, increase S-LOC 6R Cat C/D visibility to RVR 5500. Inop table does not apply to Sidestep 6L Cats A and B.
RVR 1800 authorized with use of FD or AP or HUD to DA.

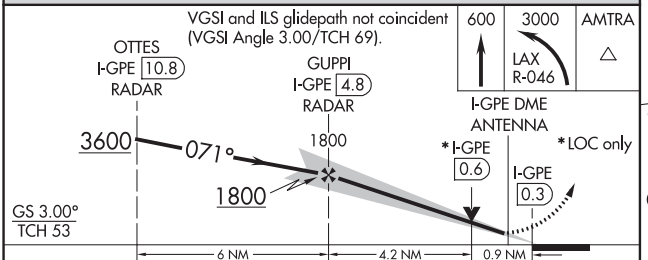
MALSR Rwy 6R (A5)

MALSR Rwy 6L (A5)

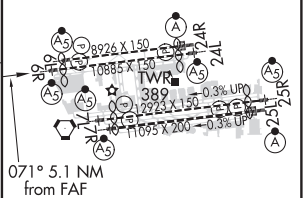
MISSED APPROACH: Climb to 600 then climbing left turn to 3000 on LAX VORTAC R-046 to AMTRA INT/ LAX 17.3 DME and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	CPDLC
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	





ELEV 128 D TDZE 6R 116 TDZE 6L 119



CATEGORY	A	B	C	D
S-ILS 6R #	316/24 200 (200-½)			
S-LOC 6R	460/24 344 (400-½)		460/30 344 (400-⅝)	
SIDESTEP 6L	460/55 341 (400-1)			460-1½ 341 (400-1½)

TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

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ILS or LOC RWY 7L

LOS ANGELES INTL (LAX)

LOC/DME I-IAS	APP CRS		7L	7R
111.1	071°	Rwy Idg	11259	11095
Chan 48		TDZE	128	128
		Apt Elev	128	128

From FIM VORTAC: RNAV 1-GPS required. DME or RADAR required.

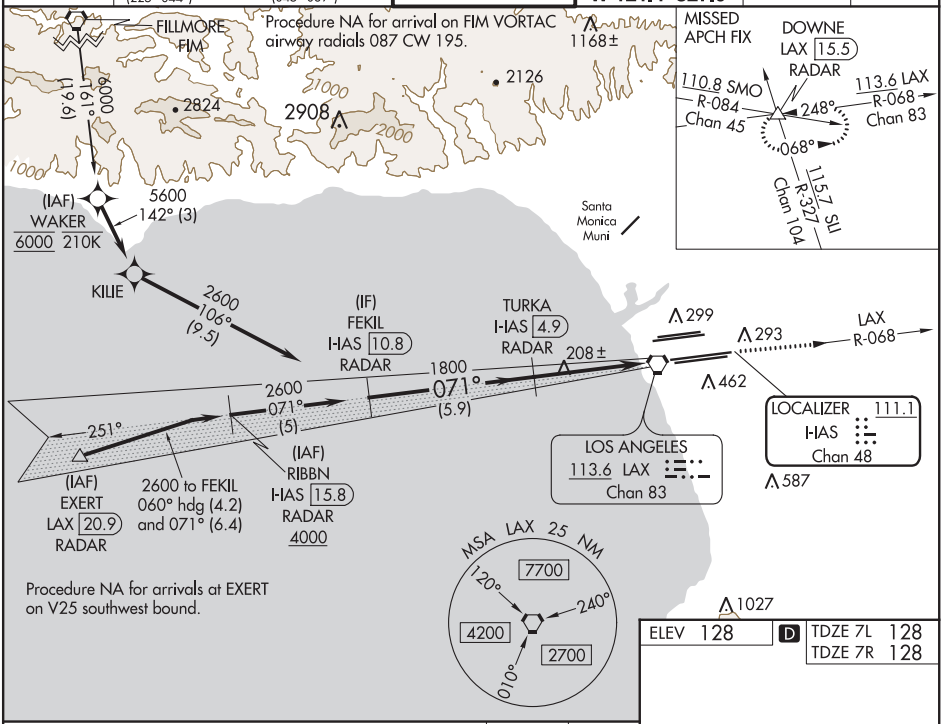
T Simultaneous approach authorized. Autopilot coupled approach NA below 925. Inop table does not apply to Sidestep Rwy 7R Cats A and B.

MALSR Rwy 7L (A5)

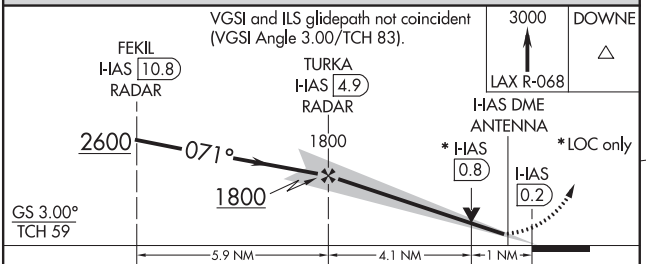
MALSR Rwy 7R (A5)

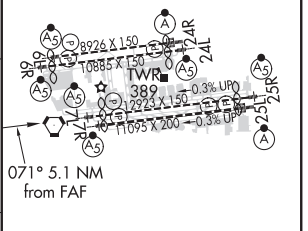
MISSED APPROACH: Climb to 3000 on LAX VORTAC R-068 to DOWNE INT/LAX 15.5 DME/RADAR and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2	124.9 269.0	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	(APCH FM WEST)	(090°-224°)	S 120.95 379.1	S 121.75 327.0	327.0	
	124.5 235.975	128.5 360.7		W 121.4 327.0		
	(225°-044°)	(045°-089°)				



ELEV 128	D	TDZE 7L 128
		TDZE 7R 128





CATEGORY	A	B	C	D
S-ILS 7L	336/18 208 (300-½)			
S-LOC 7L	520/24 392 (400-½)		520/35 392 (400-⅝)	
SIDESTEP 7R	520/55 392 (400-1)			520-1½ 392 (400-1½)

TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

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ILS or LOC RWY 7R

LOS ANGELES INTL (LAX)

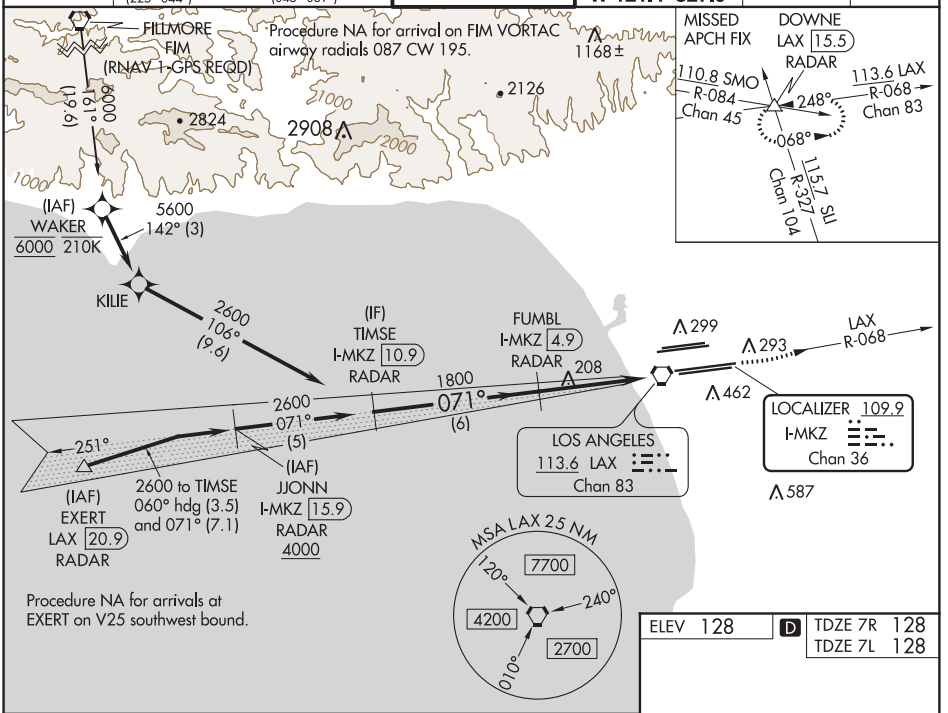
LOC/DME I-MKZ	APP CRS		7R	7L
109.9	071°	Rwy Idg	11095	11259
Chan 36		TDZE	128	128
		Apt Elev	128	128

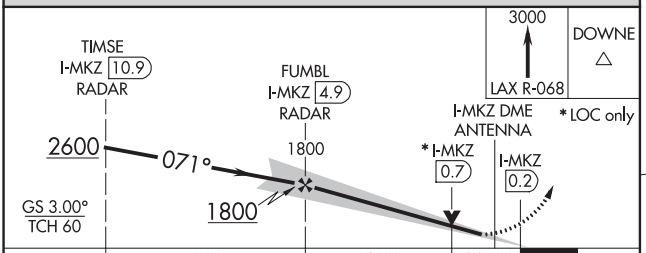
Simultaneous approach authorized. DME or RADAR required. Inop table does not apply to Sidestep Rwy 7L Cats A and B. # RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR Rwy 7R (A5) | MALSR Rwy 7L (A5)

MISSED APPROACH: Climb to 3000 on LAX VORTAC R-068 to DOWNE INT/ LAX 15.5 DME/RADAR and hold.

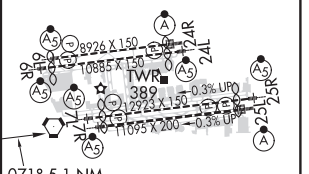
D-ATIS	SOCAL APP CON	LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	





CATEGORY	A	B	C	D
S-ILS 7R #	328/24 200 (200-½)			
S-LOC 7R	460/24 332 (400-½)		460/26 332 (400-½)	
SIDESTEP 7L	520/55 392 (400-1)			520-1½ 392 (400-1½)

ELEV 128 D TDZE 7R 128 TDZE 7L 128



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

ILS or LOC RWY 24L

LOS ANGELES INTL (LAX)

LOC/DME I-HQB	APP CRS		24L	24R
111.7	251°	Rwy Idg	9483	8925
Chan 54		TDZE	123	122
		Apt Elev	128	128

From CRCUS: RNAV 1-GPS required. From SEAVU: RNAV 1-GPS required.

DME or Radar required. RNAV 1-GPS or RADAR required for procedure entry.

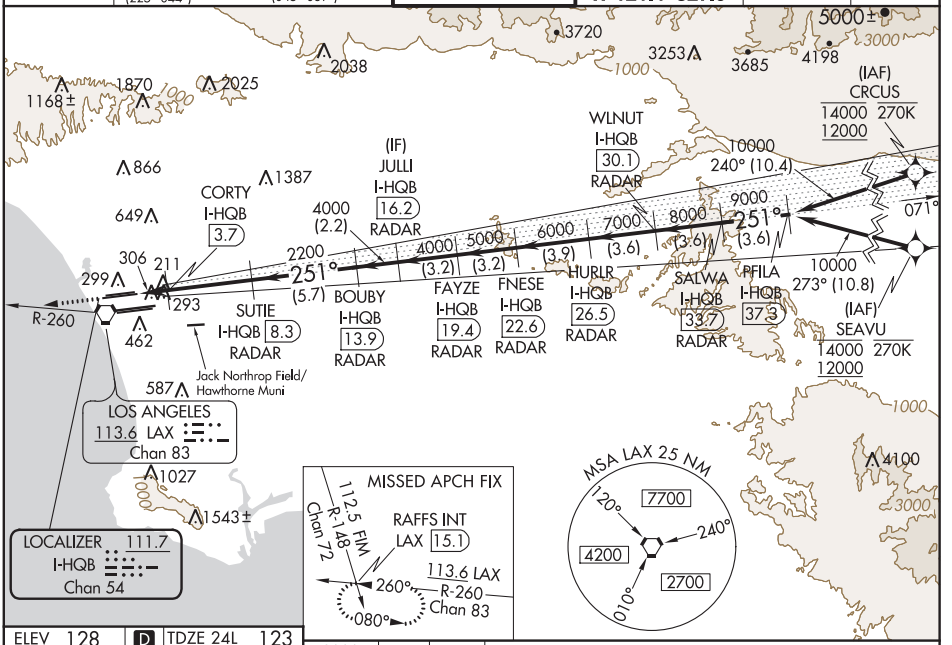
T For inop ALS, increase Sidestep 24R Cat C visibility to 1½ SM. Simultaneous approach authorized. Simultaneous approach authorized with HHR. LOC procedure NA during simultaneous operations with HHR LOC RWY 25. Inop table does not apply to Sidestep Rwy 24R Cat A and B.
RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR Rwy 24L (A5)

ALSF-2 Rwy 24R (A)

MISSED APPROACH: Climb to 2000 on heading 251° and LAX VORTAC R-260 to RAFFS INT/LAX 15.1 DME and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2	124.9 269.0	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	(APCH FM WEST)	(090°-224°)	S 120.95 379.1	S 121.75 327.0	327.0	
	124.5 235.975	128.5 360.7		W 121.4 327.0		
	(225°-044°)	(045°-089°)				



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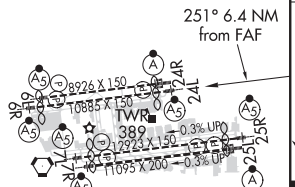
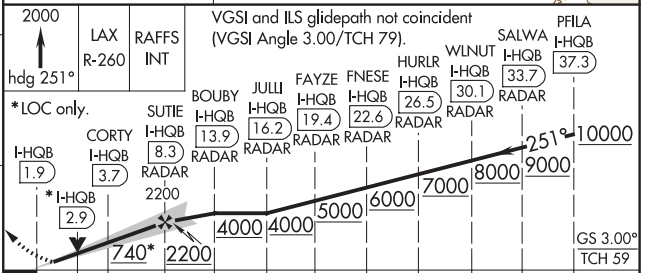
ELEV 128 D TDZE 24L 123 TDZE 24R 122



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

FAF to MAP 6.4 NM

Knots	60	90	120	150	180
Min:Sec	6:24	4:16	3:12	2:34	2:08



CATEGORY	A	B	C	D
S-ILS 24L#	323/24 200 (200-½)			
S-LOC 24L	500/24 377 (400-½)		500-1¼ 377 (400-1¼)	
SIDESTEP 24R	500/55 378 (400-1)		500-1¼ 378 (400-1¼)	500-1½ 378 (400-1½)

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ILS or LOC RWY 24R

LOS ANGELES INTL (LAX)

LOC/DME I-OSS	APP CRS		24R	24L
108.5	251°	Rwy Idg	8926	9483
Chan 22		TDZE	122	123
		Apt Elev	128	128

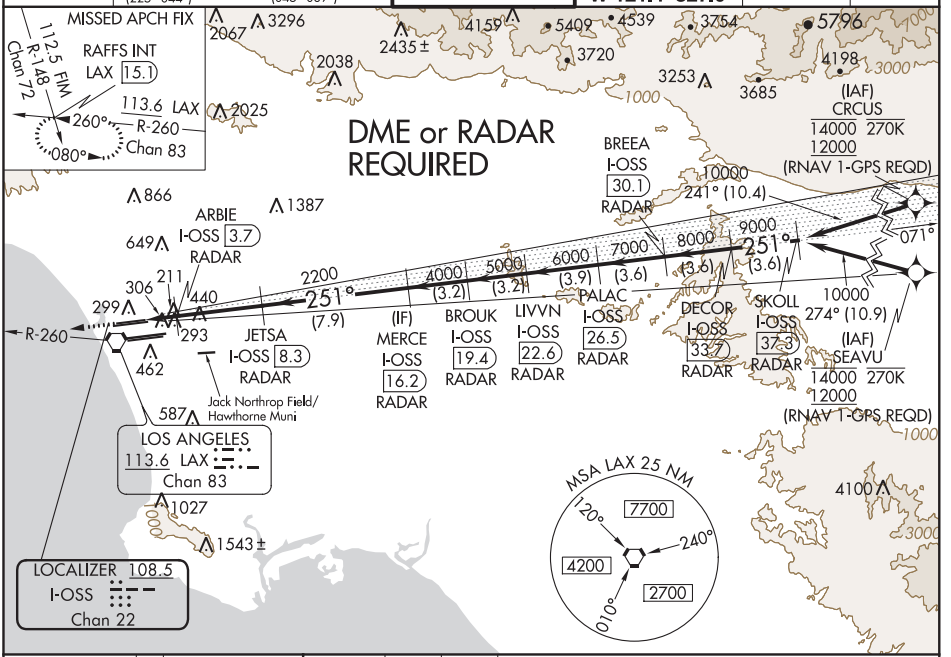
DME or RADAR required. LOC procedure NA during simultaneous operations with HHR LOC RWY 25. Simultaneous approach authorized. Simultaneous approach authorized with HHR. For inop ALS, increase S-LOC 24R Cat C/D visibility to RVR 5500.

ALSF-2 Rwy 24R

MALSR Rwy 24L

MISSED APPROACH: Climb to 2000 on heading 251° and LAX VORTAC R-260 to RAFFS INT/LAX 15.1 DME and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2	124.9 269.0	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	(APCH FM WEST)	(090°-224°)	S 120.95 379.1	S 121.75 327.0	327.0	
	124.5 235.975	128.5 360.7		W 121.4 327.0		
	(225°-044°)	(045°-089°)				



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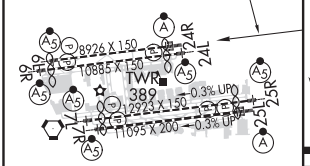
ELEV 128

D TDZE 24R 122

TDZE 24L 123

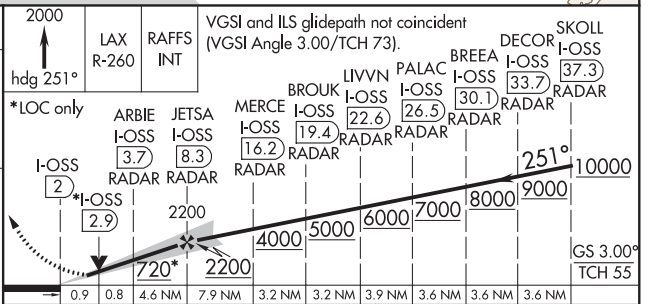


TDZ/CL Rwys 6R, 7L, 24R, and 25L

HIRL all Rwys

FAF to MAP 6.4 NM

Knots	60	90	120	150	180
Min:Sec	6:24	4:16	3:12	2:34	2:08



CATEGORY	A	B	C	D
S-ILS 24R	322/18 200 (200-½)			
S-LOC 24R	480/24 358 (400-½)		480/30 358 (400-⅝)	
SIDESTEP 24L	500/55 377 (400-1)			500-1½ 377 (400-1½)

ILS or LOC RWY 25L

LOS ANGELES INTL (LAX)

LOC/DME I-LAX	APP CRS		25L	25R
109.9	251°	Rwy ldg	11095	11134
Chan 36		TDZE	104	104
		Apt Elev	128	128

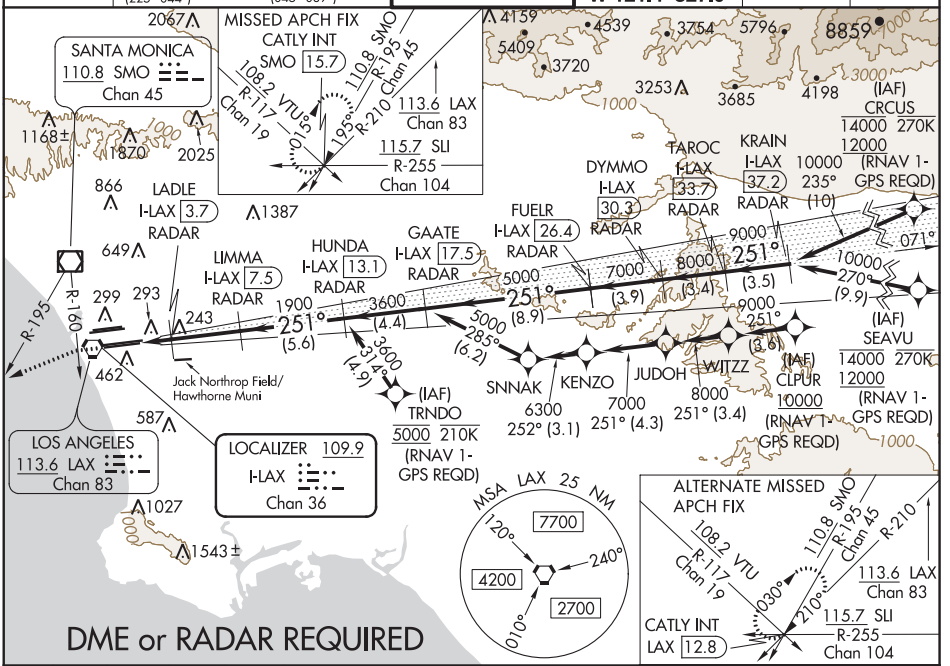
DME or RADAR required. Simultaneous approach authorized. Simultaneous approach authorized with HHR. LOC procedure NA during simultaneous operations with HHR LOC RWY 25.

ALSF-2 Rwy 25L

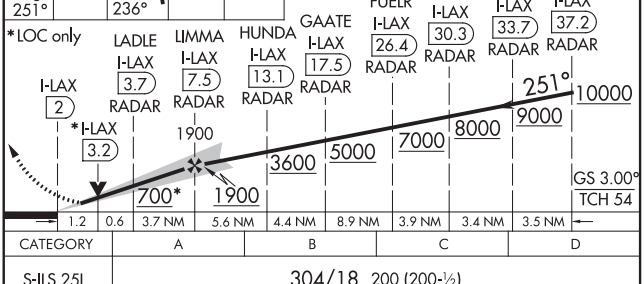
MALSR Rwy 25R

MISSED APPROACH: Climb to 2000 on heading 251° until crossing the SMO R-160, then left turn on heading 236° and on the SMO R-195 to CATLY INT/SMO 15.7 DME and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2	124.9 269.0	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	(APCH FM WEST)	(090°-224°)	S 120.95 379.1	S 121.75 327.0	327.0	
	124.5 235.975	128.5 360.7		W 121.4 327.0		
	(225°-044°)	(045°-089°)				

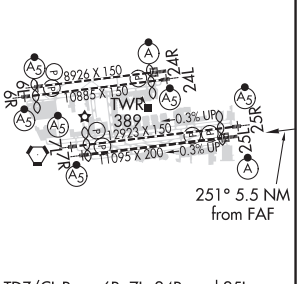


VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 70).



CATEGORY	A	B	C	D
S-ILS 25L	304/18 200 (200-½)			
S-LOC 25L	540/24 436 (500-½)		540/40 436 (500-¾)	
SIDESTEP 25R	540/55 436 (500-1)			540-1½ 436 (500-1½)

ELEV 128 D TDZE 25L 104 TDZE 25R 104



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

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ILS or LOC RWY 25R

LOS ANGELES INTL (LAX)

LOC/DME I-CFN	APP CRS		25R	25L
111.1	251°	Rwy Idg	11134	11095
Chan 48		TDZE	104	104
		Apt Elev	128	128

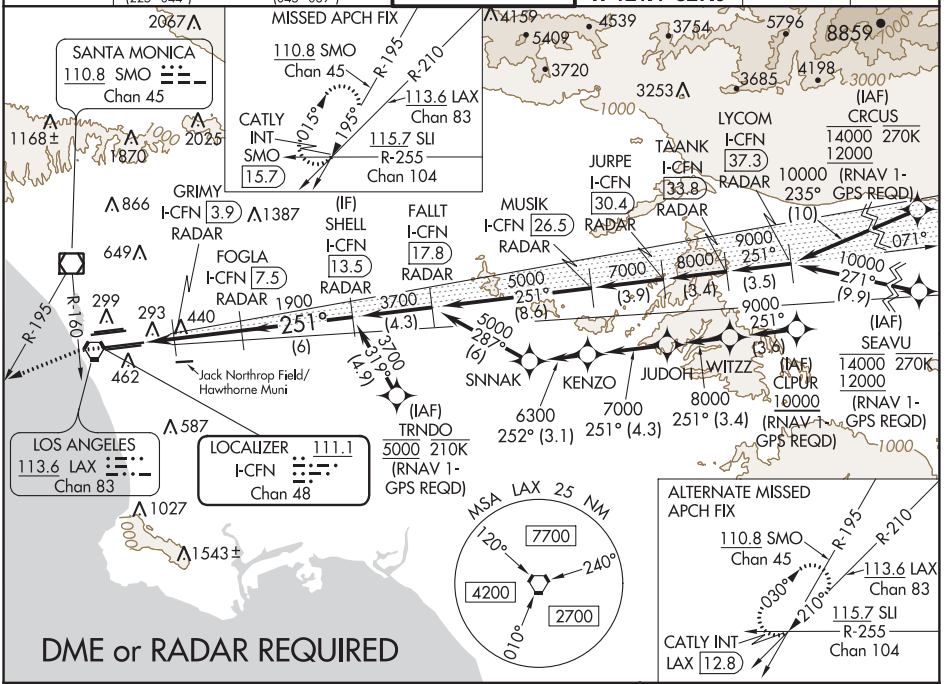
Simultaneous approach authorized.
Simultaneous approach authorized with HHR.
DME or RADAR required. For inop ALS increase Sidestep 25L Cat C visibility to 1½ SM.
#RVR 1800 authorized with use of FD or AP or HUD to DA.

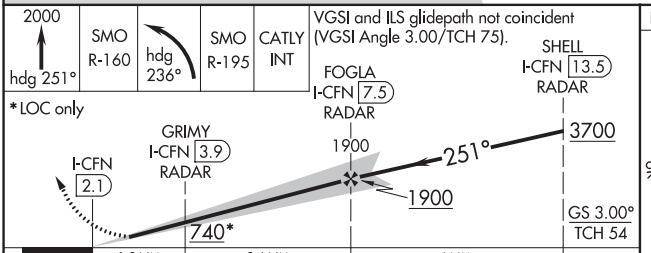
MALSR Rwy 25R (A5)

ALSF-2 Rwy 25L (A)

MISSED APPROACH: Climb to 2000 on heading 251° until crossing SMO R-160 then left turn on heading 236° and SMO VOR/DME R-195 to CATLY INT/SMO 15.7 DME and hold.

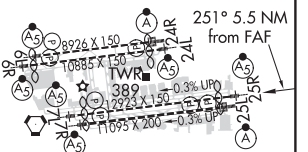
D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	





CATEGORY	A	B	C	D
S-ILS 25R#	304/24 200 (200-½)			
S-LOC 25R	700/24 596 (600-½)		700-1¼ 596 (600-1¼)	
SIDESTEP 25L	700/55 596 (600-1)		700-1¼ 596 (600-1¼)	700-1½ 596 (600-1½)

ELEV 128 D TDZE 25R 104 TDZE 25L 104



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

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ILS RWY 24R (CAT II & III)

LOS ANGELES INTL (LAX)

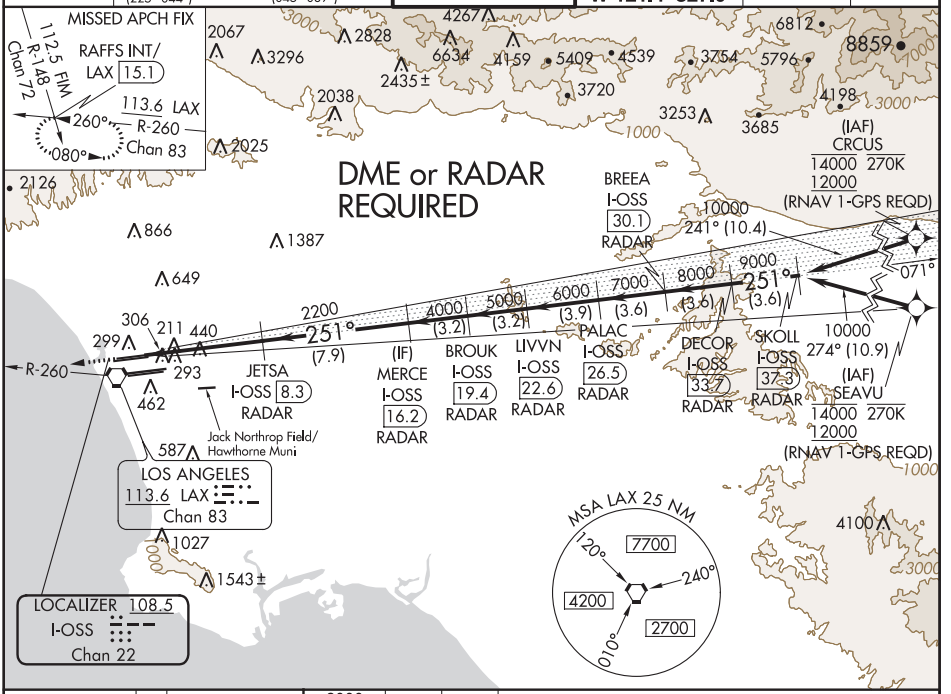
LOC/DME I-OSS	APP CRS	Rwy Idg	8926
108.5	251°	TDZE	122
Chan 22		Apt Elev	128

DME or RADAR required.
Simultaneous approach authorized.
Simultaneous approach authorized with HHR.

ALSF-2

MISSED APPROACH: Climb to 2000 on heading 251° and LAX VORTAC R-260 to RAFFS INT/LAX 15.1 DME and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	



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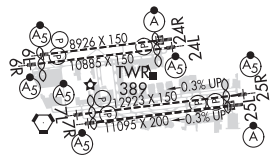
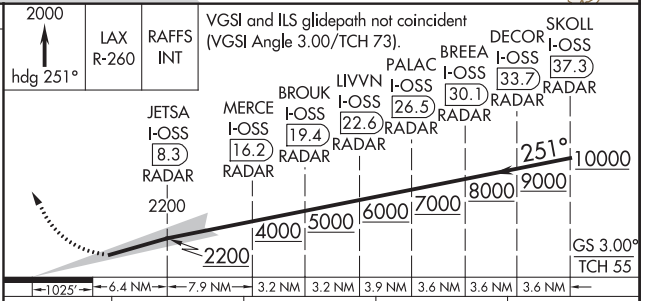
ELEV 128 D TDZE 122



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys



CATEGORY	A	B	C	D
S-ILS 24R	CAT II RA 118/12 100 DA 222			
S-ILS 24R	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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ILS RWY 25L (CAT II & III)

LOS ANGELES INTL (LAX)

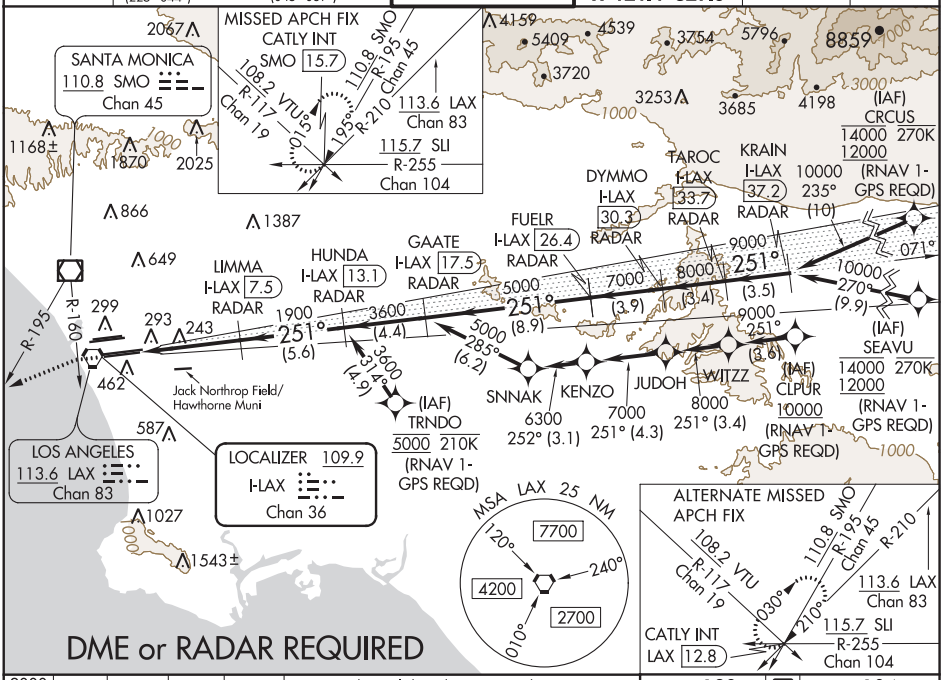
LOC/DME I-LAX	APP CRS	Rwy Idg 11095
109.9	251°	TDZE 104
Chan 36		Apt Elev 128

DME or RADAR required.
Simultaneous approach authorized.
Simultaneous approach authorized with HHR.

ALSF-2

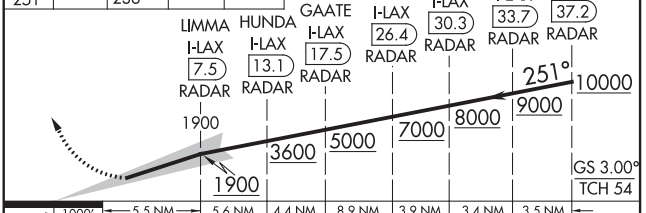
MISSED APPROACH: Climb to 2000 on heading 251° until crossing the SMO R-160 then left turn on heading 236° and on the SMO R-195 to CATLY INT/SMO 15.7 DME and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	



2000 hdg 251°	SMO R-160	hdg 236°	SMO R-195	CATLY INT

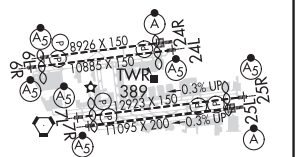
VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 70).



CATEGORY	A	B	C	D
S-ILS 25L	CAT II RA 107/12 100 DA 204			
S-ILS 25L	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ELEV 128 | D | TDZE 104



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

LOS ANGELES, CALIFORNIA
Amdt 14A 12OCT17

33°57'N-118°24'W

LOS ANGELES INTL (LAX)
ILS RWY 25L (CAT II & III)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	8566
071°	TDZE	119
	Apt Elev	128

RNAV (RNP) Z RWY 6L

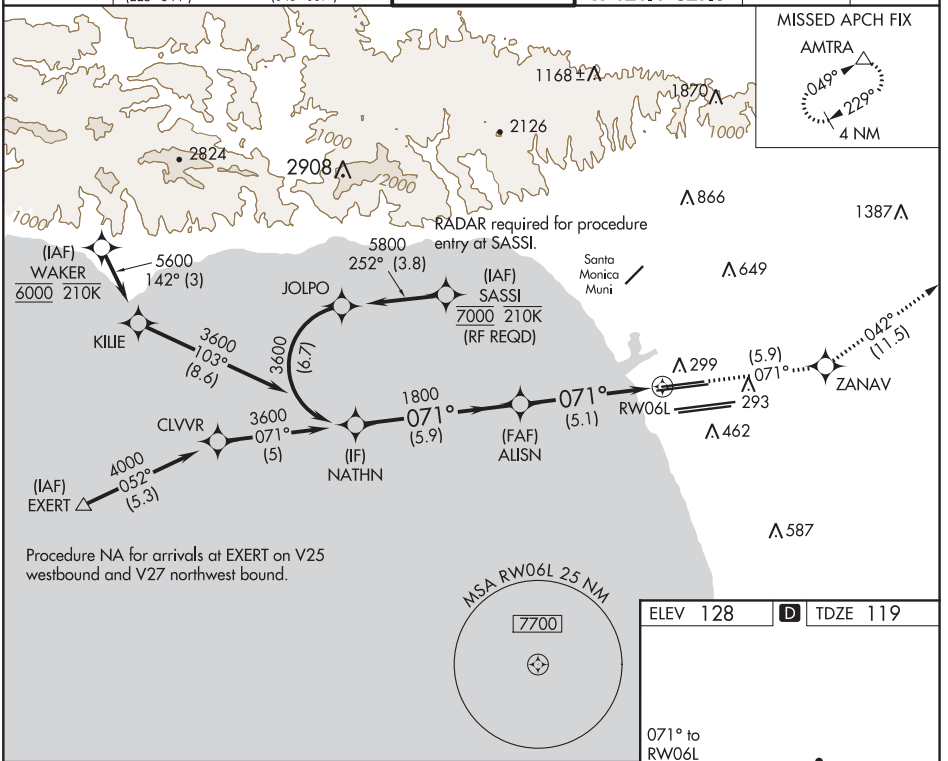
LOS ANGELES INTL (LAX)

For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). Simultaneous approach authorized. GPS required. For inop MALSR, increase RNP 0.30 all Cats visibility to RVR 6000.

MALSR

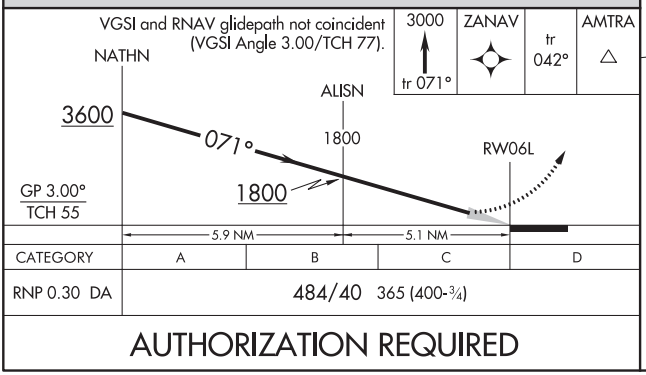
MISSED APPROACH: Climb to 3000 on track 071° to ZANAV and on track 042° to AMTRA and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	



SW-3, 05 NOV 2020 to 31 DEC 2020

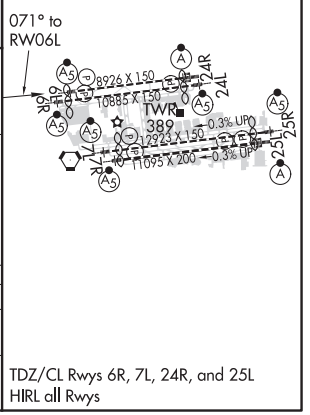
SW-3, 05 NOV 2020 to 31 DEC 2020



CATEGORY	A	B	C	D
RNP 0.30 DA	484/40	365 (400-¾)		

AUTHORIZATION REQUIRED

ELEV 128 D TDZE 119



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

RNAV (RNP) Z RWY 6R

LOS ANGELES INTL (LAX)

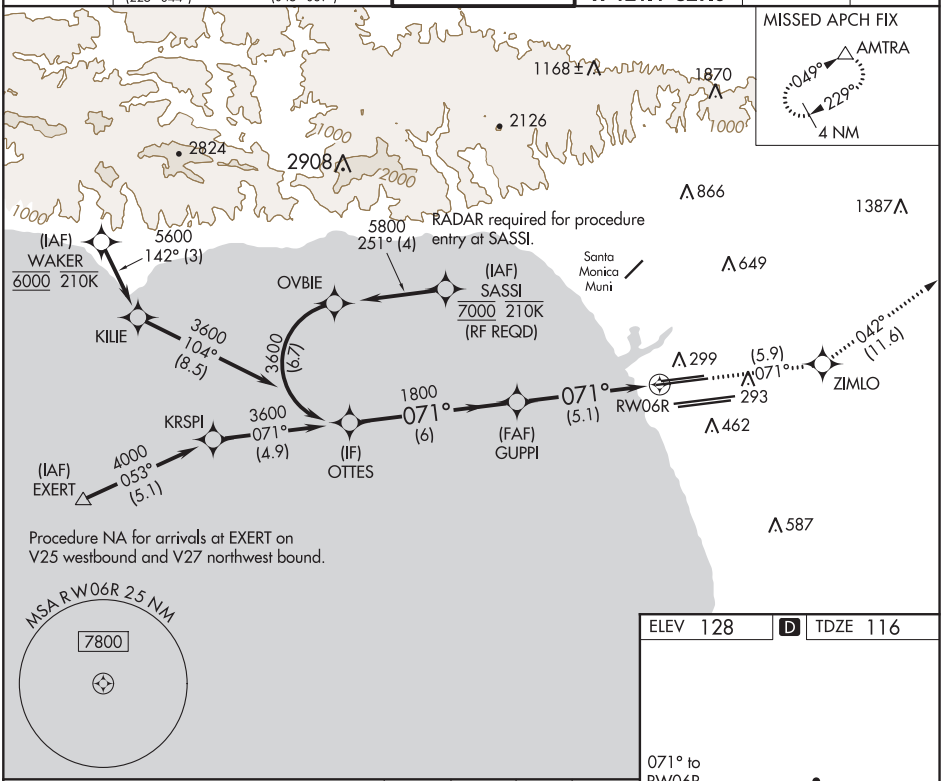
APP CRS	Rwy Idg	9748
071°	TDZE	116
	Apt Elev	128

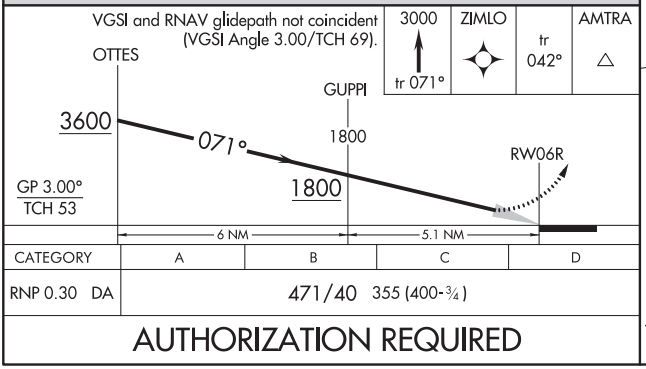
For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). GPS required. Simultaneous approach authorized. For inop ALS, increase RNP 0.30 all Cats visibility to RVR 6000.

MALSR

MISSED APPROACH: Climb to 3000 on track 071° to ZIMLO and on track 042° to AMTRA and hold.

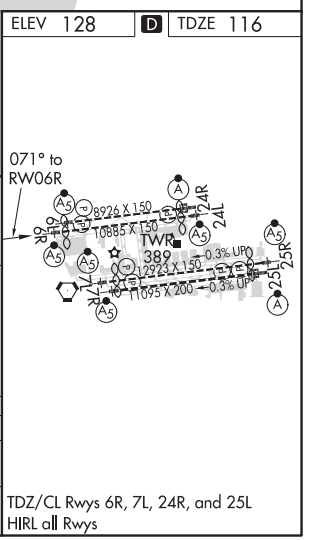
D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	





CATEGORY	A	B	C	D
RNP 0.30 DA	471/40 355 (400-¾)			

AUTHORIZATION REQUIRED



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	11259
071°	TDZE	128
	Apt Elev	128

RNAV (RNP) Z RWY 7L

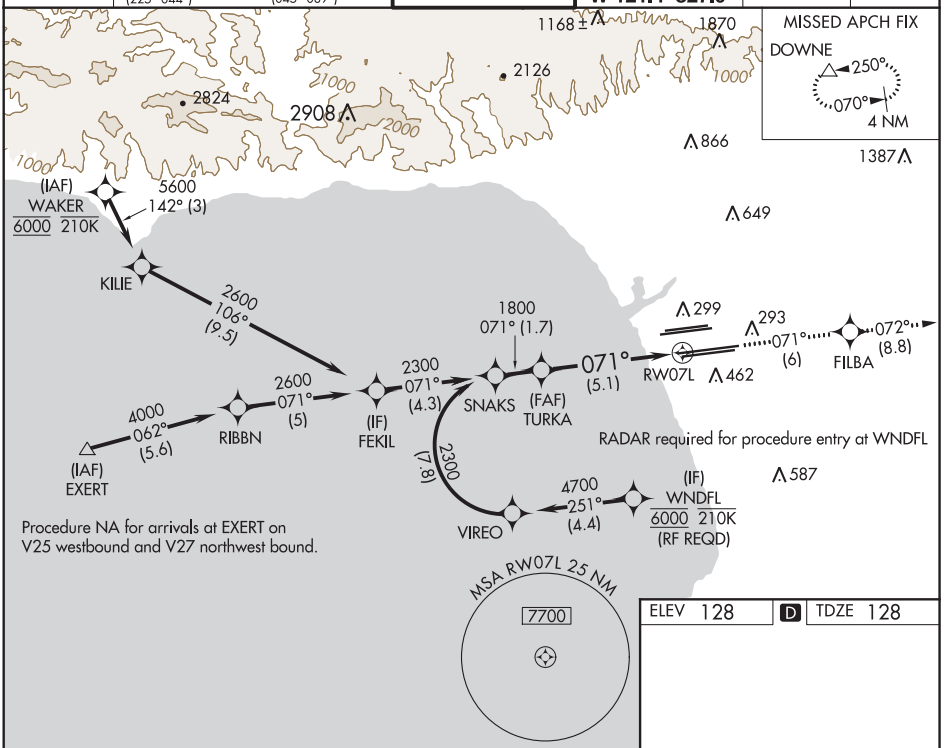
LOS ANGELES INTL (LAX)

For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). GPS required. Simultaneous approach authorized. For inop ALS, increase RNP 0.11 all Cats visibility to RVR 5000 and RNP 0.30 all Cats visibility to RVR 6000.

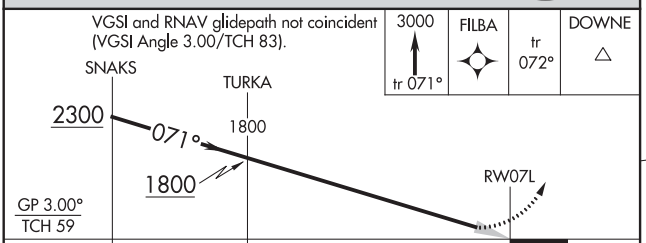
MALSR

MISSED APPROACH: Climb to 3000 on track 071° to FILBA and on track 072° to DOWNE and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	

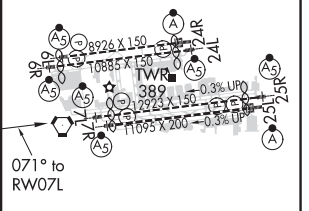


ELEV 128	D	TDZE 128



CATEGORY	A	B	C	D
RNP 0.11 DA	441/24	313 (400-½)		
RNP 0.30 DA	485/40	357 (400-¾)		

AUTHORIZATION REQUIRED



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (RNP) Z RWY 7R

LOS ANGELES INTL (LAX)

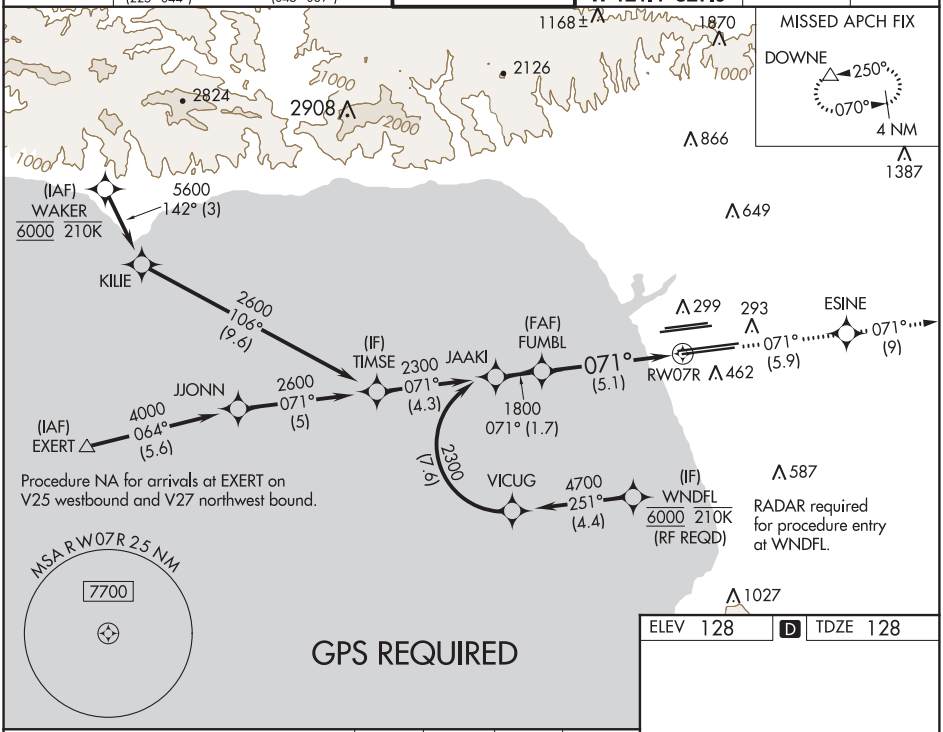
APP CRS	Rwy Idg	11095
071°	TDZE	128
	Apt Elev	128

For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). For inop MALSR, increase RNP 0.11 all Cats visibility to RVR 4500. Simultaneous approach authorized.

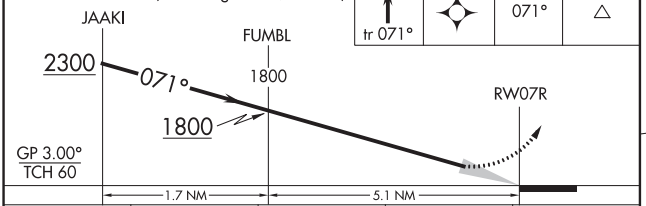
MALSR

MISSED APPROACH: Climb to 3000 on track 071° to ESINE and on track 071° to DOWNE and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	

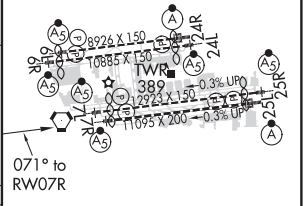


ELEV 128 D TDZE 128



CATEGORY	A	B	C	D
RNP 0.11 DA	414/24	286 (300-½)		
RNP 0.30 DA	538/45	410 (500-⅞)		

AUTHORIZATION REQUIRED



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	9483
251°	TDZE	123
	Apt Elev	128

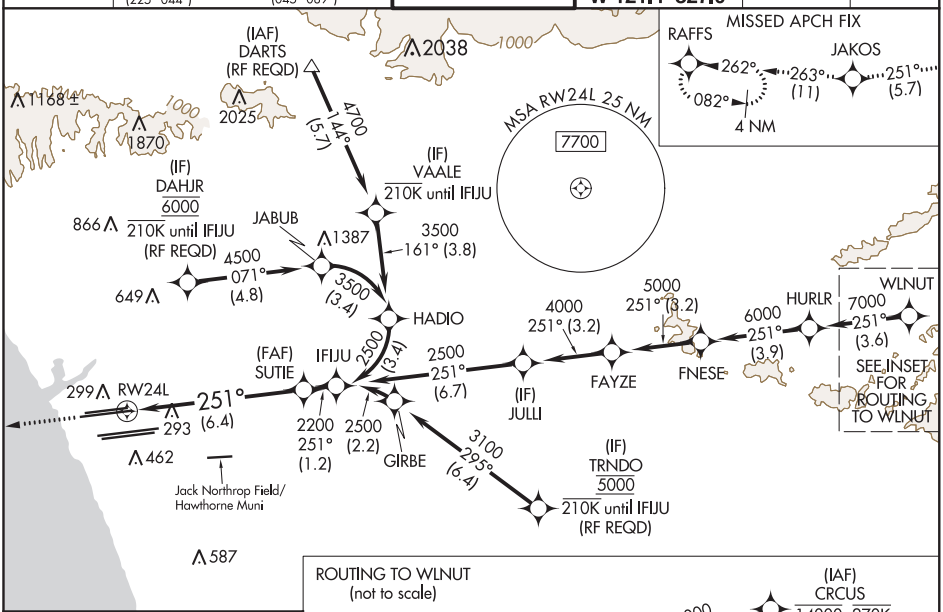
RNAV (RNP) Z RWY 24L
LOS ANGELES INTL (LAX)

For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). Simultaneous approach authorized. Simultaneous approach authorized with KHHR. GPS required. For inop ALS, increase RNP 0.15 all Cats visibility to 1⅜ SM.

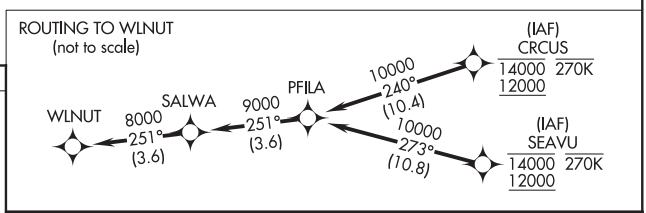
MALSR

MISSED APPROACH: Climb to 2000 on track 251° to JAKOS and track 263° to RAFFS and hold.

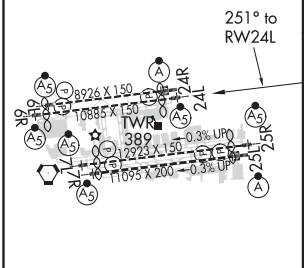
D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0	327.0	
				W 121.4 327.0		



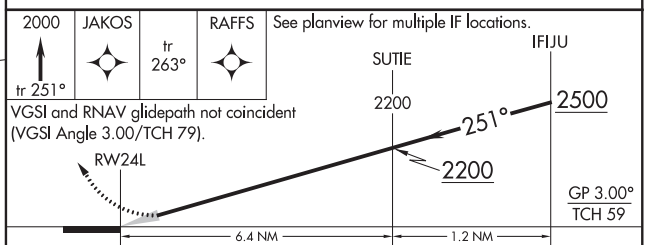
ROUTING TO WLNUT (not to scale)



ELEV 128 | D | TDZE 123



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 79).

CATEGORY	A	B	C	D
RNP 0.15 DA	545/50 422 (500-1)			
RNP 0.30 DA	592/60 469 (500-1¼)			

AUTHORIZATION REQUIRED

SW-3, 05 NOV 2020 to 31 DEC 2020

LOS ANGELES, CALIFORNIA
Amdt 2 27APR17
33°57′N-118°24′W
LOS ANGELES INTL (LAX)
RNAV (RNP) Z RWY 24L
175

LOS ANGELES, CALIFORNIA AL-237 (FAA) 20254

APP CRS	Rwy Idg	8926
251°	TDZE	122
	Apt Elev	128

RNAV (RNP) Z RWY 24R

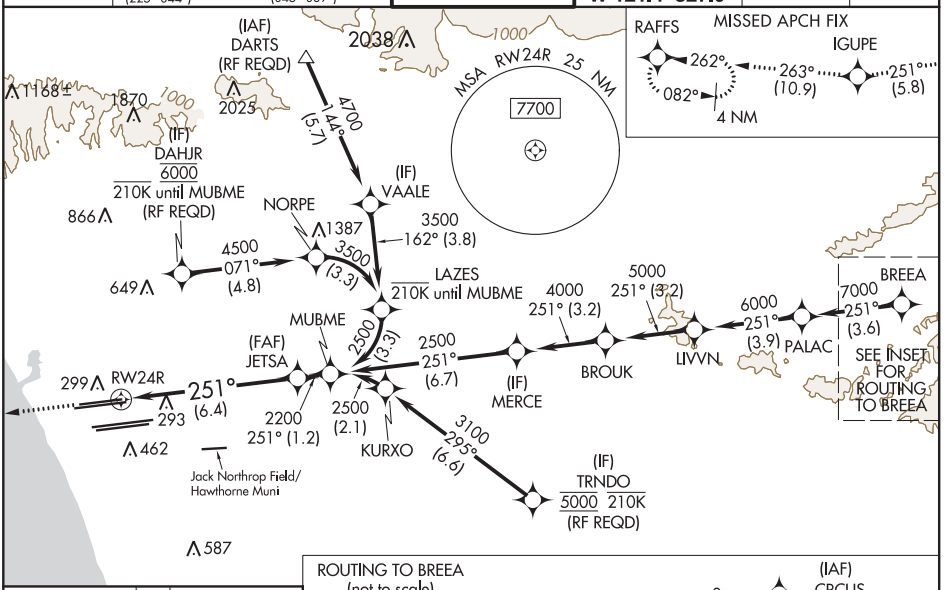
LOS ANGELES INTL (LAX)

For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). GPS required. For inop ALS, increase RNP 0.15 all Cats visibility to RVR 6000 and RNP 0.30 all Cats visibility to 1½ SM.
Simultaneous approach authorized.
Simultaneous approach authorized with HHR.

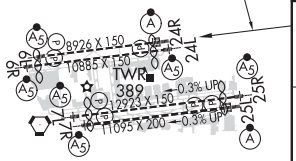
ALSF-2

MISSED APPROACH: Climb to 2000 on track 251° to IGUPE and on track 263° to RAFFS and hold.

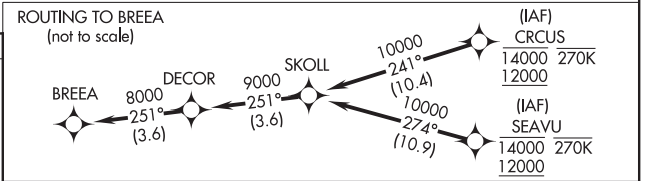
D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2	124.9 269.0	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	(APCH FM WEST)	(090°-224°)	S 120.95 379.1	S 121.75 327.0	327.0	
	124.5 235.975	128.5 360.7		W 121.4 327.0		
	(225°-044°)	(045°-089°)				

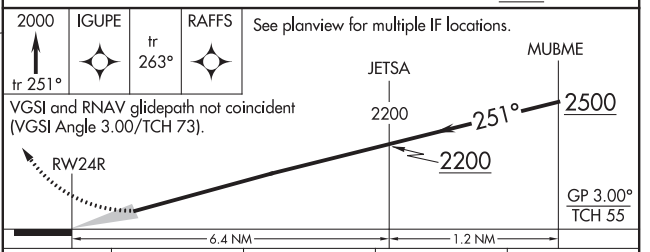


ELEV 128 D TDZ 122



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys





VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 73).

CATEGORY	A	B	C	D
RNP 0.15 DA	484/40 362 (400-¾)			
RNP 0.30 DA	586/60 464 (500-1¼)			

AUTHORIZATION REQUIRED

LOS ANGELES, CALIFORNIA
Amdt 1A 12OCT17

33°57'N-118°24'W

LOS ANGELES INTL (LAX)

RNAV (RNP) Z RWY 24R

SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	11095
251°	TDZE	104
	Apt Elev	128

RNAV (RNP) Z RWY 25L

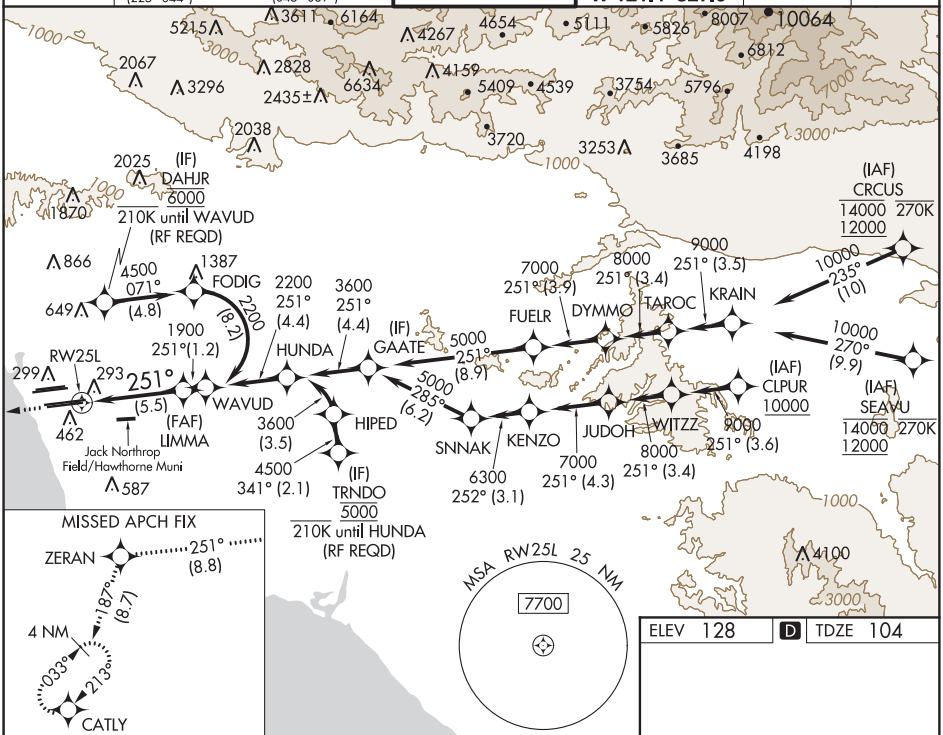
LOS ANGELES INTL (LAX)

For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). GPS required. Simultaneous approach authorized. Simultaneous approach authorized with HHR.

ALSF-2

MISSED APPROACH: Climb to 2000 on track 251° to ZERAN and on track 187° to CATLY and hold.

D-ATIS	SOCAL APP CON	LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°) 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	N 133.9 239.3 S 120.95 379.1	N 121.65 327.0 S 121.75 327.0 W 121.4 327.0	120.35 327.0	

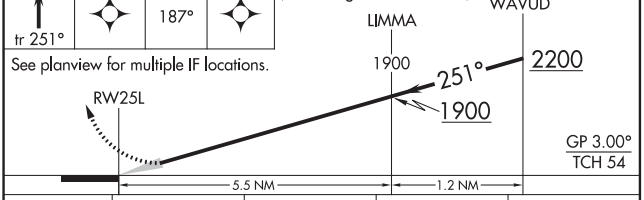


ELEV 128 D TDZE 104

2000 ↑ tr 251°	ZERAN	tr 187°	CATLY

VGSI and RNAV glidepath not coincident. (VGSI Angle 3.00/TCH 70).

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.15 DA	445/30 341 (400-⅝)			
RNP 0.30 DA	543/50 439 (500-1)			

AUTHORIZATION REQUIRED

TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LOS ANGELES, CALIFORNIA | AL-237 (FAA) | 20254

RNAV (RNP) Z RWY 25R

LOS ANGELES INTL (LAX)

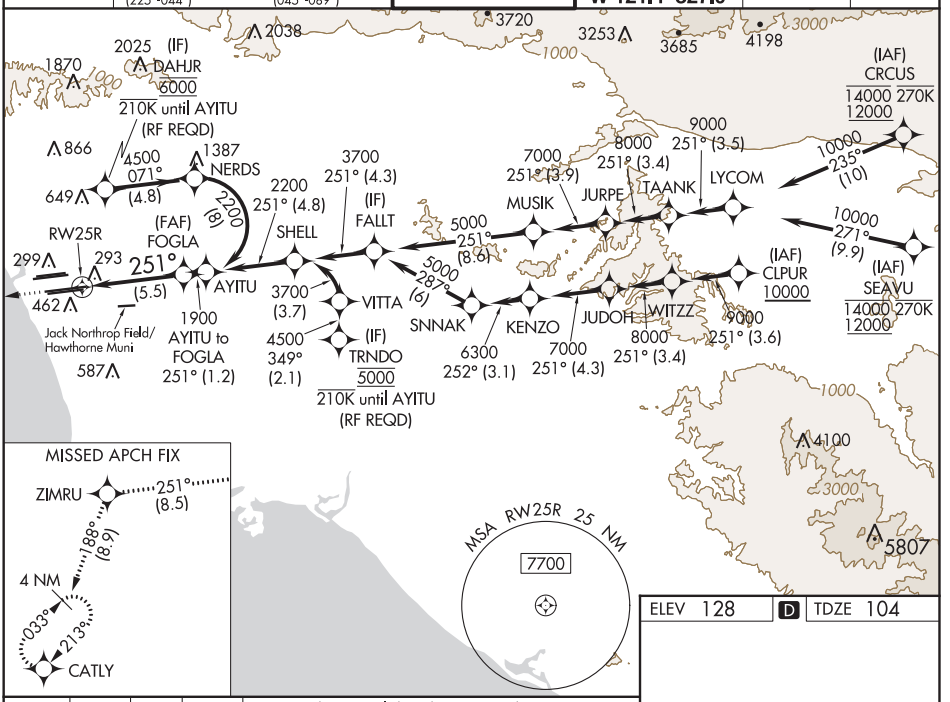
APP CRS	Rwy Idg	11134
251°	TDZE	104
	Apt Elev	128

For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). Simultaneous approach authorized. Simultaneous approach authorized with HHR. GPS required. For inop ALS, increase RNP 0.11 all Cats visibility to RVR 6000.

MALSR

MISSED APPROACH: Climb to 2000 on track 251° to ZIMRU and track 188° to CATLY and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2	124.9 269.0	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	(APCH FM WEST) 124.5 235.975 (225°-044°)	(090°-224°) 128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	



SW-3, 05 NOV 2020 to 31 DEC 2020

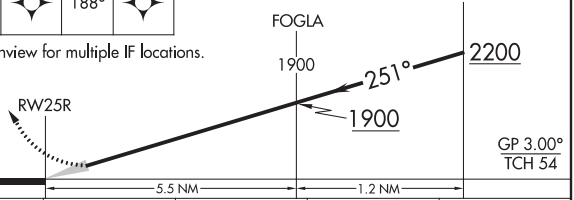
SW-3, 05 NOV 2020 to 31 DEC 2020

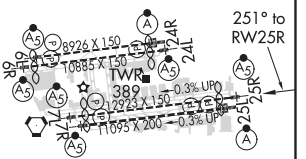
ELEV 128 | D | TDZE 104

2000	ZIMRU	tr 188°	CATLY
tr 251°			

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).

See planview for multiple IF locations.





CATEGORY	A	B	C	D
RNP 0.11 DA	453/40	349 (400-¾)		
RNP 0.30 DA	544/50	440 (500-1)		

AUTHORIZATION REQUIRED

TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

WAAS	APP CRS		
CH **82507**	**071°**	Rwy Idg	**8566**
W06A		TDZE	**119**
		Apt Elev	**128**

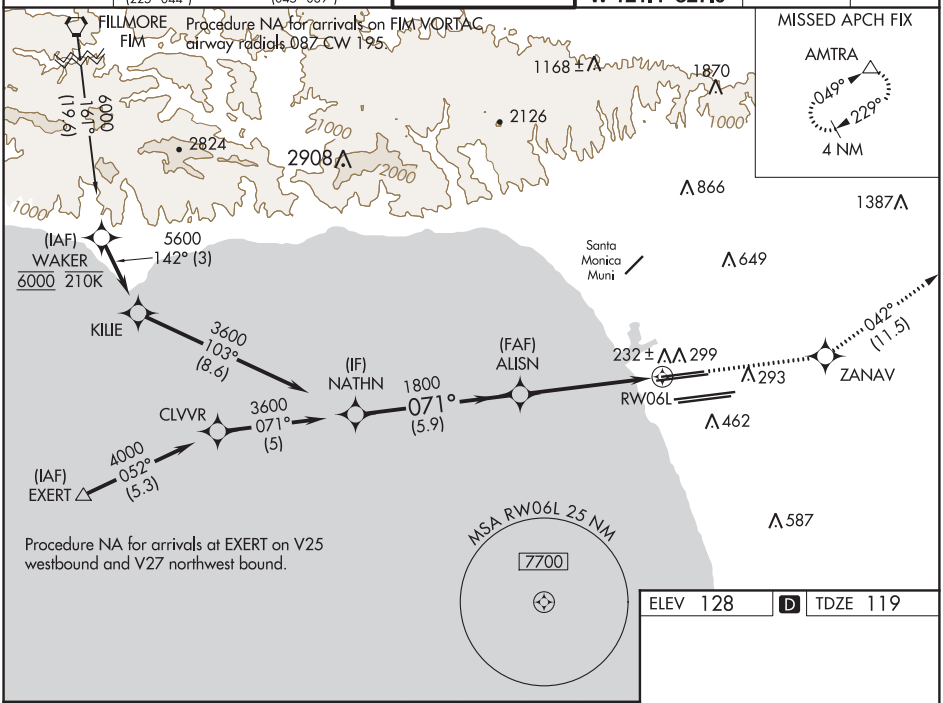
RNAV (GPS) Y RWY 6L
LOS ANGELES INTL (LAX)

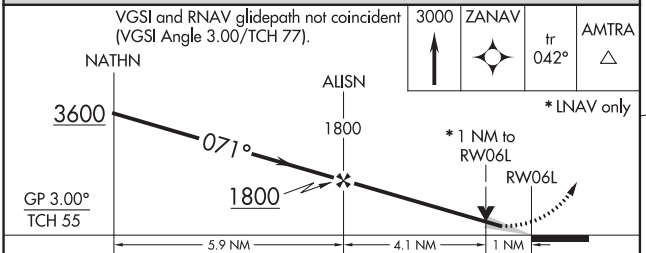
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized.

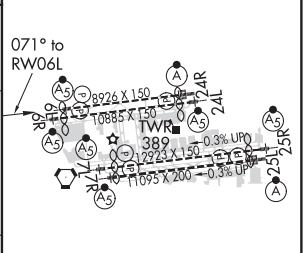
MALSR

MISSED APPROACH: Climb to 3000 direct ZANAV and track 042° to AMTRA and hold.

D-ATIS	SOCAL APP CON	LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR **133.8**	**124.3 363.2** (APCH FM WEST) **124.9 269.0** (090°-224°)	**N 133.9 239.3**	**N 121.65 327.0**	**120.35**	
DEP **135.65**	**124.5 235.975** (225°-044°) **128.5 360.7** (045°-089°)	**S 120.95 379.1**	**S 121.75 327.0** **W 121.4 327.0**	**327.0**	







CATEGORY	A	B	C	D
LPV DA	369/24 250 (300-½)			
LNAV/VNAV DA	411/24 292 (300-½)			
LNAV MDA	500/24 381 (400-½)		500/35 381 (400-⅝)	

TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

SW-3, 05 NOV 2020 to 31 DEC 2020
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LOS ANGELES, CALIFORNIA AL-237 (FAA) 20254

RNAV (GPS) Y RWY 6R

LOS ANGELES INTL (LAX)

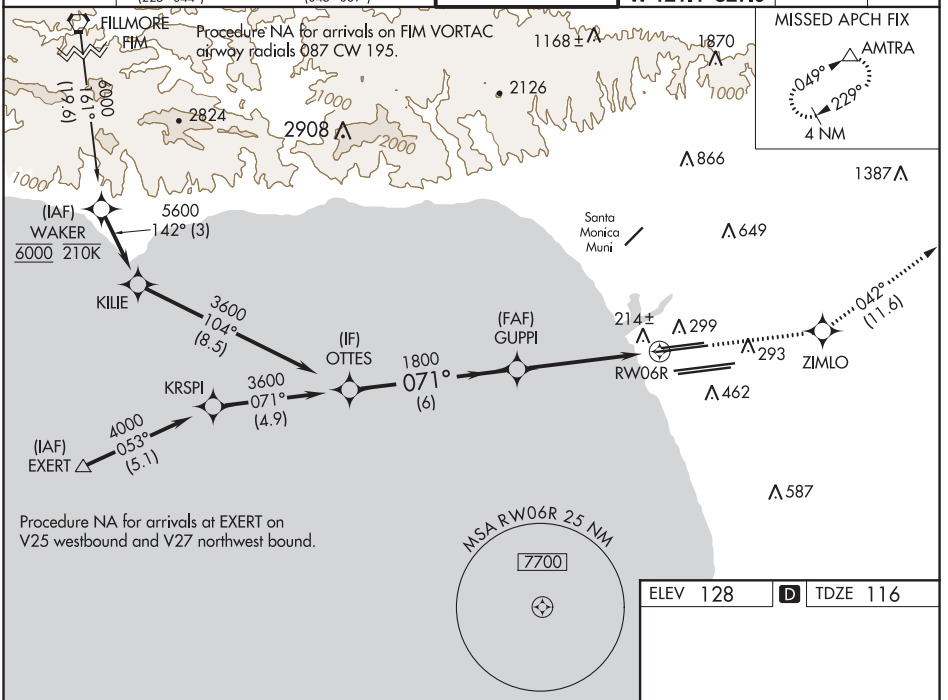
WAAS	APP CRS		
CH **61207**	**071°**	Rwy Idg	**9748**
W06B		TDZE	**116**
		Apt Elev	**128**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. For inop ALS, increase LNAV/VNAV all Cats visibility to RVR 4500, LNAV Cat C and D visibility to RVR 5500. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.
RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 3000 direct ZIMLO and track 042° to AMTRA and hold.

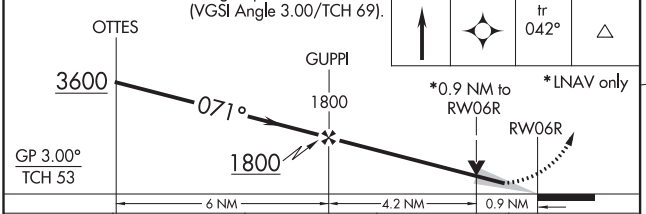
D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR **133.8**	**124.3 363.2** (APCH FM WEST)	**124.9 269.0** (090°-224°)	**N 133.9 239.3**	**N 121.65 327.0**	**120.35**	
DEP **135.65**	**124.5 235.975** (225°-044°)	**128.5 360.7** (045°-089°)	**S 120.95 379.1**	**S 121.75 327.0** **W 121.4 327.0**	**327.0**	

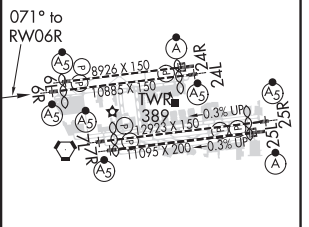


ELEV 128 D TDZE 116

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 69).

3000	ZIMLO	tr 042°	AMTRA





CATEGORY	A	B	C	D
LPV DA#	316/24 200 (200-½)			
LNAV/VNAV DA	398/24 282 (300-½)			
LNAV MDA	480/24 364 (400-½)		480/35 364 (400-⅝)	

TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

LOS ANGELES, CALIFORNIA
Amdt 2A 17AUG17

33°57'N-118°24'W

LOS ANGELES INTL (LAX)

RNAV (GPS) Y RWY 6R

SW-3, 05 NOV 2020 to 31 DEC 2020

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WAAS	APP CRS		
CH 42504	071°	Rwy Idg	11259
W07A		TDZE	128
		Apt Elev	128

RNAV (GPS) Y RWY 7L

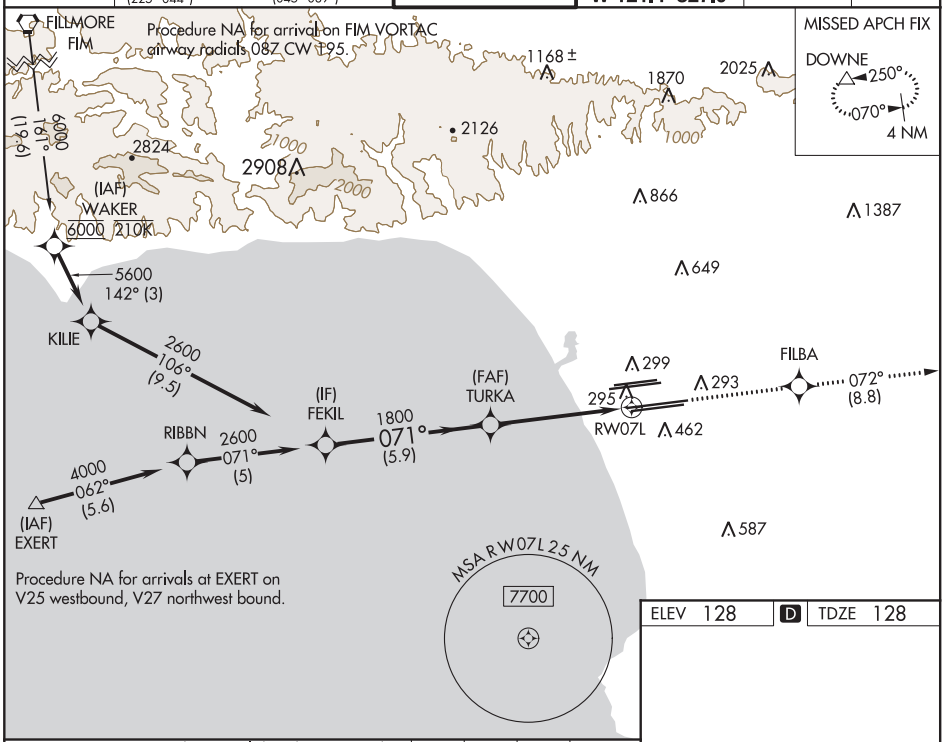
LOS ANGELES INTL (LAX)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 54°C (130°F). DME/DME RNP -0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized.

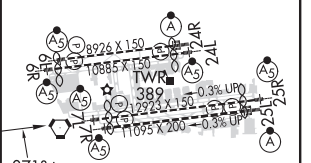
MALSR

MISSED APPROACH: Climb to 3000 direct FILBA and on track 072° to DOWNE and hold.

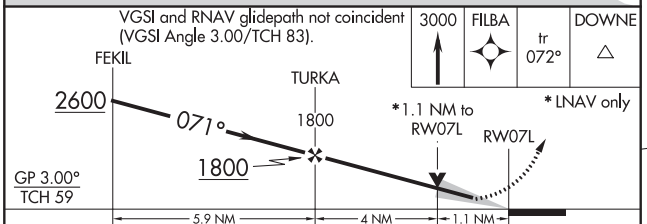
D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0	327.0	
				W 121.4 327.0		



ELEV 128 D TDZE 128



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys



CATEGORY	A	B	C	D
LPV DA	344/18 216 (300-½)			
LNAV/VNAV DA	464/30 336 (400-⅝)			
LNAV MDA	560/24 432 (500-½)		560/40 432 (500-¾)	

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LOS ANGELES, CALIFORNIA AL-237 (FAA) 20254

RNAV (GPS) Y RWY 7R

LOS ANGELES INTL (LAX)

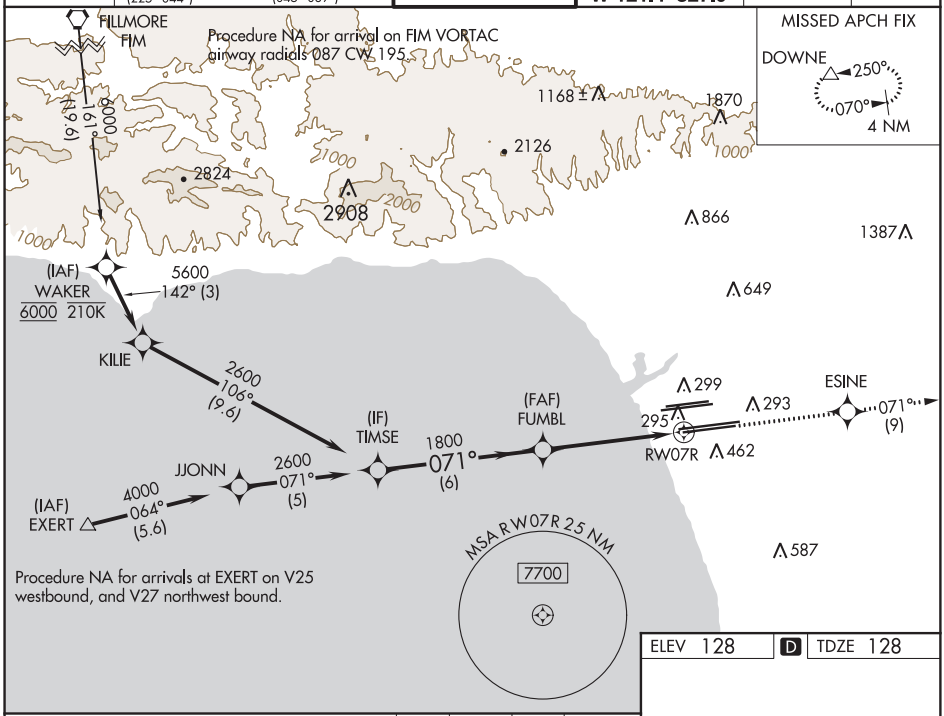
WAAS	APP CRS	Rwy Idg	11095
CH 69603	071°	TDZE	128
W07B		Apt Elev	128

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. # RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

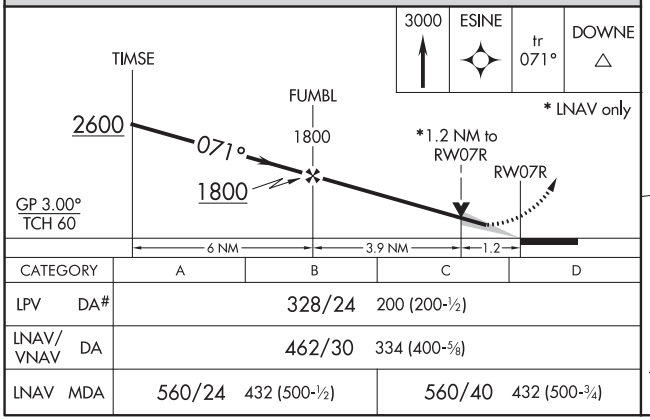
MISSED APPROACH: Climb to 3000 direct ESINE and on track 071° to DOWNE and hold.

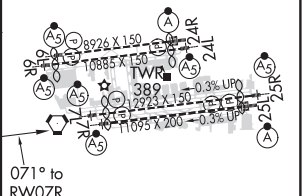
D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020





CATEGORY	A	B	C	D
LPV DA#	328/24 200 (200-½)			
LNAV/VNAV DA	462/30 334 (400-⅝)			
LNAV MDA	560/24 432 (500-½)		560/40 432 (500-¾)	

TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

LOS ANGELES, CALIFORNIA
Amdt 3A 07DEC17

33°57′N-118°24′W

LOS ANGELES INTL (LAX)
RNAV (GPS) Y RWY 7R

WAAS CH 56407 W24B	APP CRS 251°	Rwy Idg 9483 TDZE 123 Apt Elev 128

RNAV (GPS) Y RWY 24L

LOS ANGELES INTL (LAX)

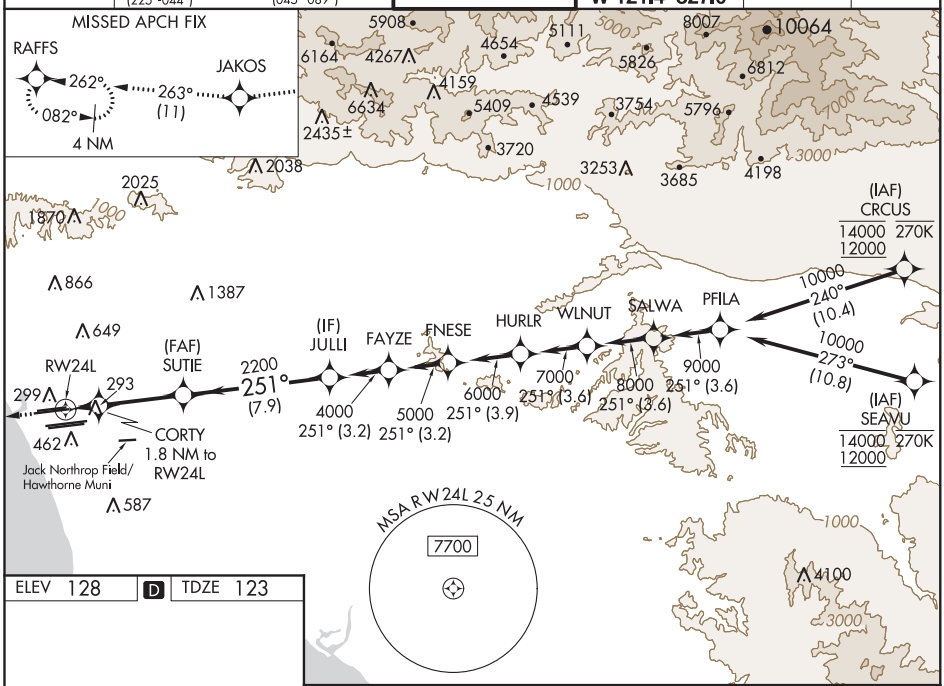
RNP APCH.

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 54°C (130°F). Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized with HHR. # RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 2000 direct JAKOS and track 263° to RAFFS and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	N 133.9 239.3 S 120.95 379.1	N 121.65 327.0 S 121.75 327.0 W 121.4 327.0	120.35 327.0	



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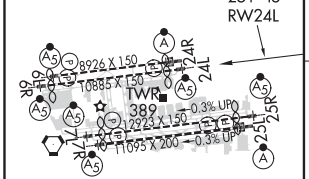
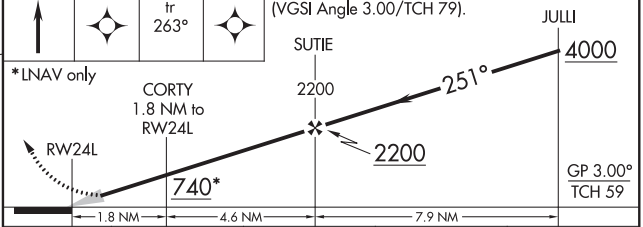
ELEV 128	D	TDZE 123



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys



CATEGORY	A	B	C	D
LPV DA#	323/24 200 (200-½)			
LNAV/VNAV DA	608/60 485 (500-1¼)			
LNAV MDA	660/24 537 (600-½)		660/55 537 (600-1)	

RNAV (GPS) Y RWY 24R

LOS ANGELES INTL (LAX)

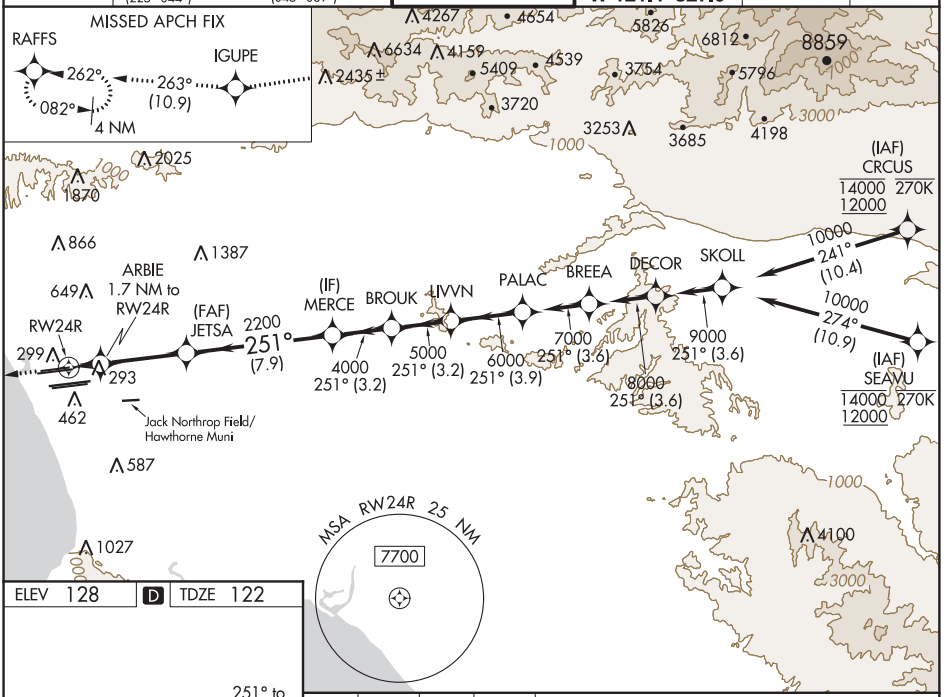
WAAS	APP CRS		
CH 69307	251°	Rwy Idg	8926
W24A		TDZE	122
		Apt Elev	128

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 6°C (43°F) or above 54°C (130°F). DME/DME RNP- 0.3 NA. Simultaneous approach authorized. Simultaneous approach authorized with HHR. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inop ALS, increase LNAV/VNAV all Cats visibility to 1½ SM, and LNAV Cat C/D visibility to 1⅜ SM.

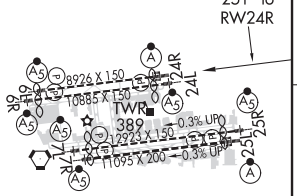
ALSF-2

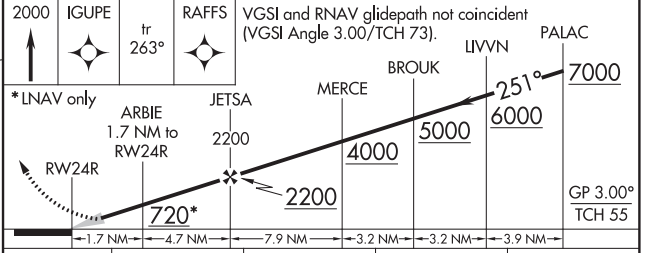
MISSED APPROACH: Climb to 2000 direct IGUPE and on track 263° to RAFFS and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	



ELEV 128 D TDZE 122





CATEGORY	A	B	C	D
LPV DA	322/18 200 (200-½)			
LNAV/VNAV DA	589/60 467 (500-1¼)			
LNAV MDA	640/24 518 (600-½)		640/55 518 (600-1)	

TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS	Rwy Idg	11095
CH 53507	251°	TDZE	104
W25A		Apt Elev	128

RNAV (GPS) Y RWY 25L

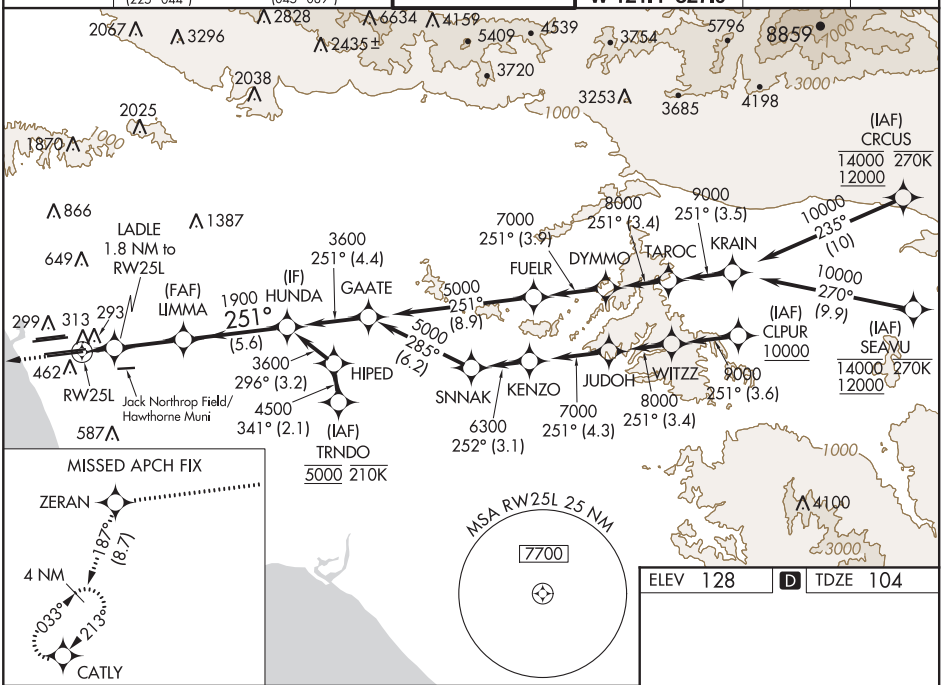
LOS ANGELES INTL (LAX)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. For inop ALS, increase LPV all Cats visibility to RVR 4500. Simultaneous approach authorized. Simultaneous approach authorized with HHR 25. LNAV only approach NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

ALSF-2

MISSED APPROACH: Climb to 2000 direct ZERAN and on track 187° to CATLY and hold.

D-ATIS	SOCAL APP CON		LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 (APCH FM WEST)	124.9 269.0 (090°-224°)	N 133.9 239.3	N 121.65 327.0	120.35	
DEP 135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0 W 121.4 327.0	327.0	

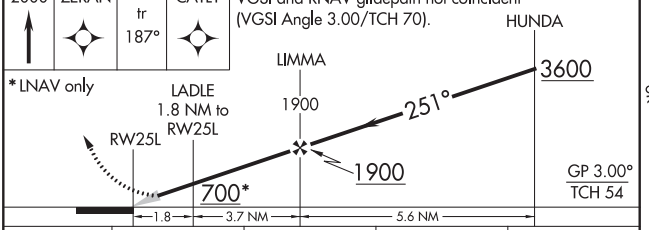


SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

2000	ZERAN	tr 187°	CATLY

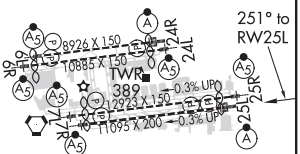
VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 70).



* LNAV only

CATEGORY	A	B	C	D
LPV DA	365/20 261 (300-½)			
LNAV/VNAV DA	575/60 471 (500-1¼)			
LNAV MDA	640/24 536 (600-½)		640/55 536 (600-1)	

ELEV 128 D TDZE 104



TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

LOS ANGELES, CALIFORNIA AL-237 (FAA) 20254

RNAV (GPS) Y RWY 25R

LOS ANGELES INTL (LAX)

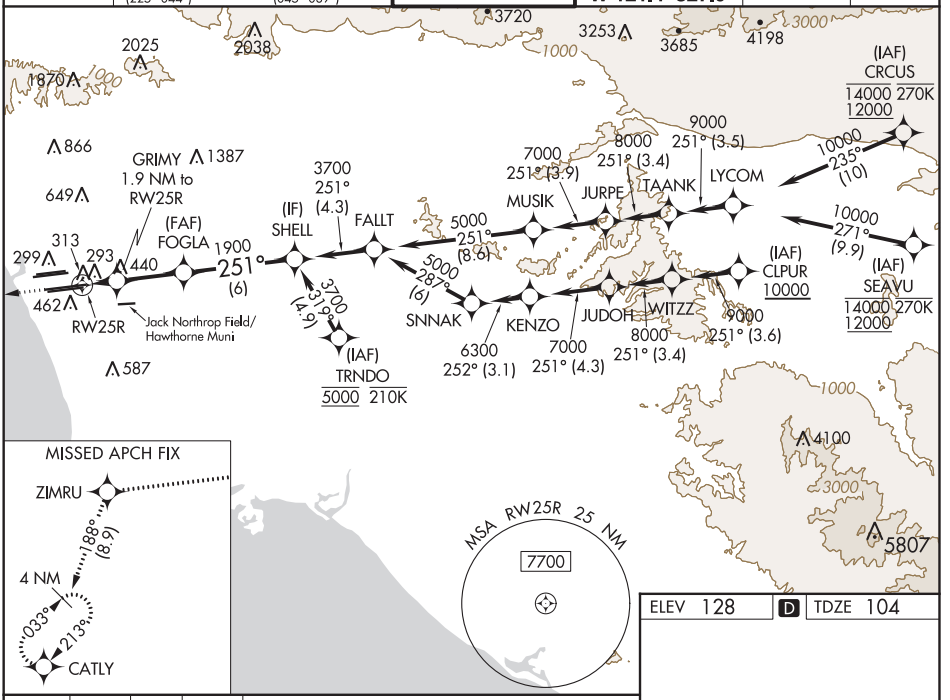
WAAS	APP CRS	Rwy Idg	11134
CH 49007	251°	TDZE	104
W25B		Apt Elev	128

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Simultaneous approach authorized. Simultaneous approach authorized with HHR. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. # RVR 1800 authorized with use of FD or AP or HUD to DA.

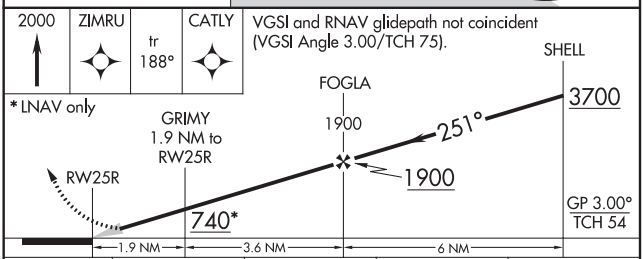
MALSR

MISSED APPROACH: Climb to 2000 direct ZIMRU and track 188° to CATLY and hold.

D-ATIS	SOCAL APP CON	LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°) 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	N 133.9 239.3 S 120.95 379.1	N 121.65 327.0 S 121.75 327.0 W 121.4 327.0	120.35 327.0	



ELEV 128	D	TDZE 104



CATEGORY	A	B	C	D
LPV DA#	304/24 200 (200-½)			
LNAV/VNAV DA	578/60 474 (500-1¼)			
LNAV MDA	640/24 536 (600-½)		640/55 536 (600-1)	

TDZ/CL Rwys 6R, 7L, 24R, and 25L
HIRL all Rwys

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

LOS ANGELES, CALIFORNIA
Amdt 3A 07DEC17

33°57'N-118°24'W

LOS ANGELES INTL (LAX)
RNAV (GPS) Y RWY 25R

SW-3, 30 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

(SXC8.SXC) 19339

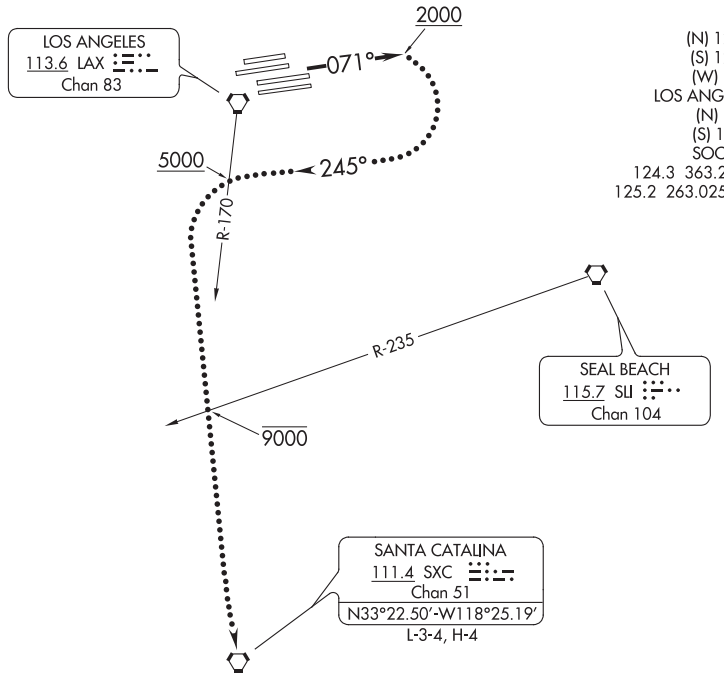
CATALINA EIGHT DEPARTURE

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

TOP ALTITUDE: ASSIGNED BY ATC

D-ATIS DEP
135.65
CLNC DEL
120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)



TAKEOFF MINIMUMS
Rwys 24L/R, 25L/R: NA-Operational.
Rwys 6L/R, 7L/R: Standard.

NOTE: RADAR required.
NOTE: This is a RADAR vector departure to SXC VORTAC. Route depicted is a lost communication procedure only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R, 7L/R: Climb heading 071° for vectors to SXC VORTAC. Then on (assigned route). All aircraft expect further clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS:

TAKEOFF RUNWAYS 6L/R, 7L/R: If not in contact with Departure Control after reaching 2000', turn right heading 245°. Cross LAX R-170 at or above 5000', then turn left and proceed direct SXC VORTAC. Cross SLI R-235 at or below 9000'.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

D-ATIS DEP 135.65
CLNC DEL 120.35 327.0
CPDLC
GND CON (N) 121.65 327.0 (S) 121.75 327.0 (W) 121.4 327.0
LOS ANGELES TOWER (N) 133.9 239.3 (S) 120.95 379.1
SOCAL DEP CON 124.3 363.2 (045°-224°) 125.2 263.025 (225°-044°)
TOP ALTITUDE: ASSIGNED BY ATC
GORMAN 116.1 GMN Chan 108 N34°48.24'-W118°51.68' L-3-4-7, H-4
SAN MARCUS 114.9 RZS Chan 96 N34°30.57'-W119°46.26' L-3-4-7, H-4
GAVIOTA 113.8 GVO Chan 85
FILLMORE 112.5 FIM Chan 72 N34°21.40'-W118°52.88'
VAN NUYS 113.1 VNY Chan 78
LOS ANGELES 113.6 LAX Chan 83
VENTURA 108.2 VTU Chan 19
CASTA N34°31.97' W118°43.60' 8300
JOSUL N34°15.45' W118°35.45'
CHATY N34°14.54' W118°35.00' 5400
OHIGH N34°25.88' W119°18.65' L-3-4-7
HENER N34°19.86' W119°13.66' L-3-4-7
KWANG N34°18.55' W119°30.85' L-3-4-7
DEANO N34°19.00' W119°24.99'
V23 9500 322° (18)
V23 6000 323° (17)
V23 6000 323° (11)
V23 R-323
V186-597 6000 277° (16)
V186
V386-597 8000 267° (22)
V386-597 8000 267° (23)
6300 250° (17)
6300 (9)
(5) 6300
V27-186
R-142
R-021
R-097
R-100
R-269
R-311
R-289
R-282
R-119
R-099
R-087
270°
041°
071°
TAKEOFF MINIMUMS
Rwys 24L/R, 25L/R: NA - Operational.
Rwys 6L/R, 7L/R: Standard.
NOTE: DME and RADAR required.
NOTE: Procedure for non turbojet aircraft only.
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R: Climb heading 041° for vector to V23, thence. . . .
TAKEOFF RUNWAYS 7L/R: Climb heading 071° for vector to V23, thence. . . .

. . . .then on (transition) or (assigned route). Expect filed altitude 5 minutes after departure.

LOST COMMUNICATIONS
RUNWAYS 6L/R, 7L/R: If not in contact with departure control within 3 minutes after departure, turn left heading 270°, intercept V23 to CHATY INT and resume the CHATY FIVE DEPARTURE. Continue on course.

GORMAN TRANSITION (CHATY5.GMN): From over CHATY INT on LAX R-323 and GMN R-142 to GMN VORTAC.

HENER TRANSITION (CHATY5.HENER): From over CHATY INT on LAX R-323 to JOSUL, then on FIM R-097 to FIM VORTAC, then on FIM R-250 to HENER INT.

KWANG TRANSITION (CHATY5.KWANG): From over CHATY INT on LAX R-323 to JOSUL, then on FIM R-097 to FIM VORTAC, then on FIM R-250 to KWANG INT.

SAN MARCUS TRANSITION (CHATY5.RZS): From over CHATY INT on LAX R-323 to JOSUL, then on FIM R-097 to FIM VORTAC, then on FIM R-267 to OHIGH INT, then on RZS R-087 to RZS VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020

D-ATIS DEP 135.65
CLNC DEL 120.35 327.0
CPDLC
GND CON (N) 121.65 327.0 (S) 121.75 327.0 (W) 121.4 327.0
LOS ANGELES TOWER (N) 133.9 239.3 (S) 120.95 379.1
SOCAL DEP CON 124.3 363.2 (045°-224°) 125.2 263.025 (225°-044°)
TOP ALTITUDE: FL230
TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R: NA - ATC.
Rwys 24L/R, 25L/R: Standard with minimum climb of 500' per NM to 640'.
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: STOKD, SCTRR and MCKEY transitions: DME/DME/IRU or GPS required.
NOTE: DINTY transitions: GPS only.
NOTE: Turbojet aircraft only.
NOTE: File the RIZIN TRANSITION in lieu of the LADYJ DEPARTURE during time periods 2100-0700 LCL. All other times RIZIN TRANSITION ATC assigned only.
N
SCTRR
STOKD
MCKEY
SPLNT
TESEA
RIZIN
OINGO
IKAYE
FIXIT 12000
DARRK 12000
NAANC
ENNEY 5000
FABRA 3000
DLREY 3000
DOCKR 3000
EVOSE 5000
MKGEE
HIIPR 3000
DINTY
10 NM
R-2519
W-289E
W-289W
W-289S
W-537
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 24L: Climb heading 251° to 640, then climb direct to cross DLREY at or below 3000, then on track 256° to cross ENNEY at or below 5000, then on track 253° to NAANC, then on track 253° to cross DARRK at or below 12000, thence. . . .

TAKEOFF RUNWAY 24R: Climb heading 251° to 640, then climb direct to cross FABRA at or below 3000, then on track 253° to cross ENNEY at or below 5000, then on track 253° to NAANC, then on track 253° to cross DARRK at or below 12000, thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 251° to 640, then climb direct to cross HIIPR at or below 3000, then on track 256° to cross EVOSE at or below 5000, then on track 252° to MKGEE, then on track 258° to cross DARRK at or below 12000, thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 251° to 640, then climb direct to cross DOCKR at or below 3000, then on track 252° to cross EVOSE at or below 5000, then on track 252° to MKGEE, then on track 258° to cross DARRK at or below 12000, thence. . . .

. . . .on (transition) maintain FL230. Expect filed altitude 5 minutes after departure.

DINTY TRANSITION (DARRK3.DINTY)
MCKEY TRANSITION (DARRK3.MCKEY)
RIZIN TRANSITION (DARRK3.RIZIN)
SCTRR TRANSITION (DARRK3.SCTRR)
STOKD TRANSITION (DARRK3.STOKD)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE:
17000
D-ATIS DEP 135.65
CLNC DEL 120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)
N
TTRUE
WURMO
LVELL
CNERY
NAANC
FABRA 640 3000
ENNEY 5000
DLREY 640 3000
DOCKR 640 3000
WEILR 5000
HIIPR 640 3000
ADORE 5000
SHAEF
HAYNK
PEVEE
HOLTZ
DOTSS 15000
EYEDL 15000
HOMER 15000
CLEEE
WIILD 15000
BLCKD 15000
CSTWY 15000
253° (7)
165° (5)
134° (10)
155° (10)
097° (9)
5300
078° (27)
7800
065° (29)
094° (29)
15000
079° (13)
079° (41)
079° (45)
079° (20)
059° (2A)
253° (2)
256° (2)
251° (2)
251°
251°
251°
220° (2)
218° (5)
216° (5)
TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R: NA-ATC.
Rwys 24L/R, 25L/R: Standard with minimum climb of 500' per NM to 640.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Turbojet aircraft only.
NOTE: Turn at HIIPR and DOCKR are required for ATC separation.
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 24L: Climb heading 251° to 640, then climb direct to cross DLREY at or below 3000, then on track 256° to cross ENNEY at or below 5000, then on depicted route to cross DOTSS at or above 15000, thence. . . .
TAKEOFF RUNWAY 24R: Climb heading 251° to 640, then climb direct to cross FABRA at or below 3000, then on track 253° to cross ENNEY at or below 5000, then on depicted route to cross DOTSS at or above 15000, thence. . . .
TAKEOFF RUNWAY 25L: Climb heading 251° to 640, then climb direct to cross HIIPR at or below 3000, then on track 221° to cross ADORE at or below 5000, then on depicted route to cross DOTSS at or above 15000, thence. . . .
TAKEOFF RUNWAY 25R: Climb heading 251° to 640, then climb direct to cross DOCKR at or below 3000, then on track 220° to cross WEILR at or below 5000, then on depicted route to cross DOTSS at or above 15000, thence. . . .

. . . .on (transition). Maintain 17000. Expect filed altitude five minutes after departure.

CLEEE TRANSITION (DOTSS2.CLEEE)

CNERY TRANSITION (DOTSS2.CNERY)

GARDY FOUR DEPARTURE (RNAV)

(GARDY4.GARDY) 10SEP20

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

GARDY FOUR DEPARTURE (RNAV)

(GARDY4.GARDY) 20254

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

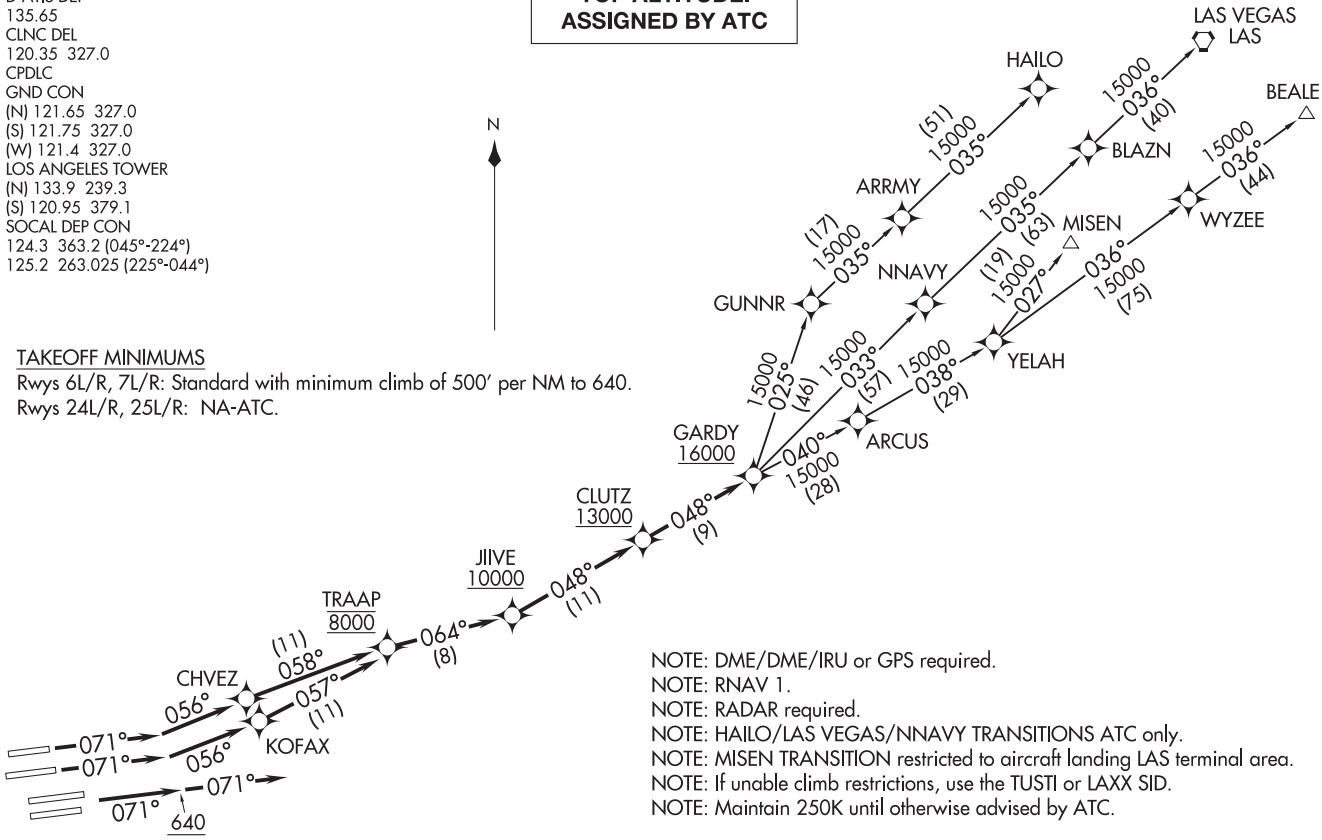
AL-237 (FAA)

D-ATIS DEP
135.65
CLNC DEL
120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

TOP ALTITUDE: ASSIGNED BY ATC

N

TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R: Standard with minimum climb of 500′ per NM to 640.
Rwys 24L/R, 25L/R: NA-ATC.



NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: HAILO/LAS VEGAS/NNAVY TRANSITIONS ATC only.
NOTE: MISEN TRANSITION restricted to aircraft landing LAS terminal area.
NOTE: If unable climb restrictions, use the TUSTI or LAXX SID.
NOTE: Maintain 250K until otherwise advised by ATC.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

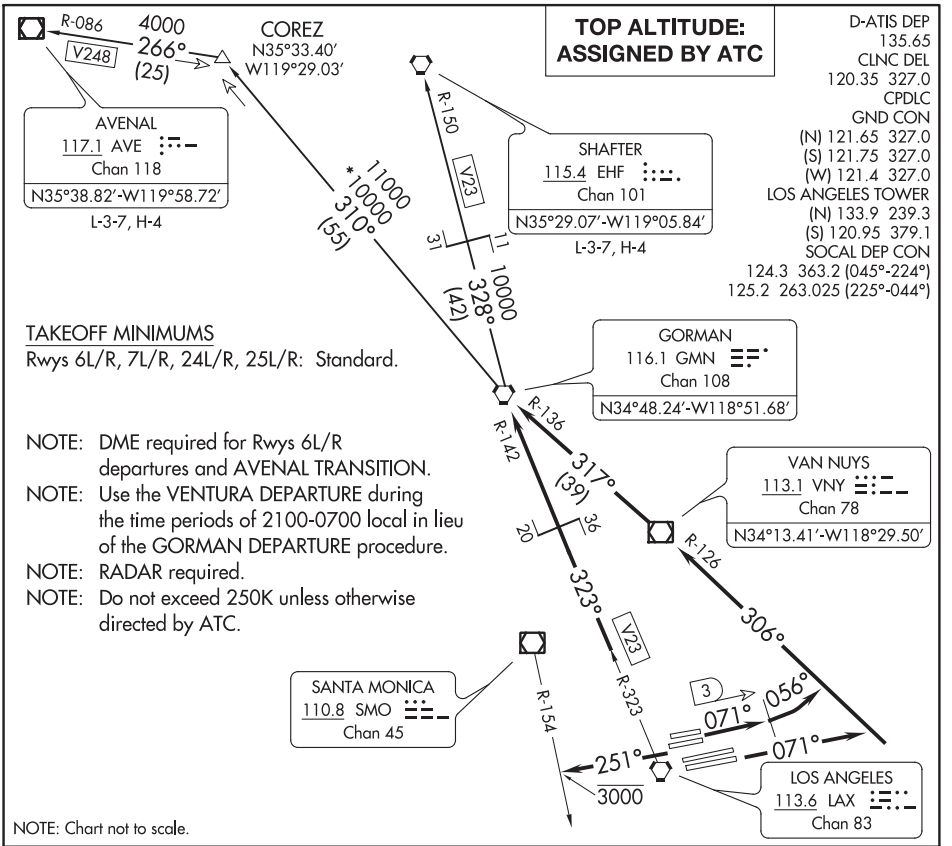
TAKEOFF RUNWAY 6L: Climb on heading 071° to intercept course 056° to CHVEZ, then on track 058° to cross TRAAP at 8000, then on track 064° to cross JIIVE at or above 10000, then on track 048° to cross CLUTZ at or above 13000, then on track 048° to cross GARDY at or above 16000, thence. . . .

TAKEOFF RUNWAY 6R: Climb on heading 071° to intercept course 056° to KOFAX, then on track 057° to cross TRAAP at 8000, then on track 064° to cross JIIVE at or above 10000, then on track 048° to cross CLUTZ at or above 13000, then on track 048° to cross GARDY at or above 16000, thence. . . .

TAKEOFF RUNWAYS 7L/R: Climb on heading 071° to 640, then on heading 071° or as assigned by ATC, expect vectors to cross TRAAP at 8000, then on track 064° to cross JIIVE at or above 10000, then on track 048° to cross CLUTZ at or above 13000, then on track 048° to cross GARDY at or above 16000, thence. . . .

. . . .on (transition). Maintain ATC assigned altitude. Expect filed altitude five minutes after departure.

BEALE TRANSITION (GARDY4.BEALE)
HAILO TRANSITION (GARDY4.HAILO)
LAS VEGAS TRANSITION (GARDY4.LAS)
MISEN TRANSITION (GARDY4.MISEN)
NNAVY TRANSITION (GARDY4.NNAVY)



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R: Climb on heading 071° until LAX VORTAC 3 DME, then turn left heading 056° for vector to join VNY R-126 to VNY VOR/DME, then on VNY R-317 and GMN R-136 to GMN VORTAC, thence. . . .

TAKEOFF RUNWAYS 7L/R: Climb on heading 071° for vector to join VNY R-126 to VNY VOR/DME, then on VNY R-317 and GMN R-136 to GMN VORTAC, thence. . . .

TAKEOFF RUNWAYS 24L/R, 25L/R: Climb on heading 251° to cross SMO R-154 at or below 3000, then on RADAR vector to LAX R-323 and GMN R-142 to GMN VORTAC, thence. . . .

. . . .on (transition) or (assigned route). All aircraft expect further clearance to filed flight level 5 minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

AVENAL TRANSITION (GMN7.AVE): From over GMN VORTAC on GMN R-310 to COREZ then on AVE R-086 to AVE VOR/DME.

SHAFTER TRANSITION (GMN7.EHF): From over GMN VORTAC on GMN R-328 and EHF R-150 to EHF VORTAC.

(LADYJ4.LADYJ) 18032

LADYJ FOUR DEPARTURE (RNAV)

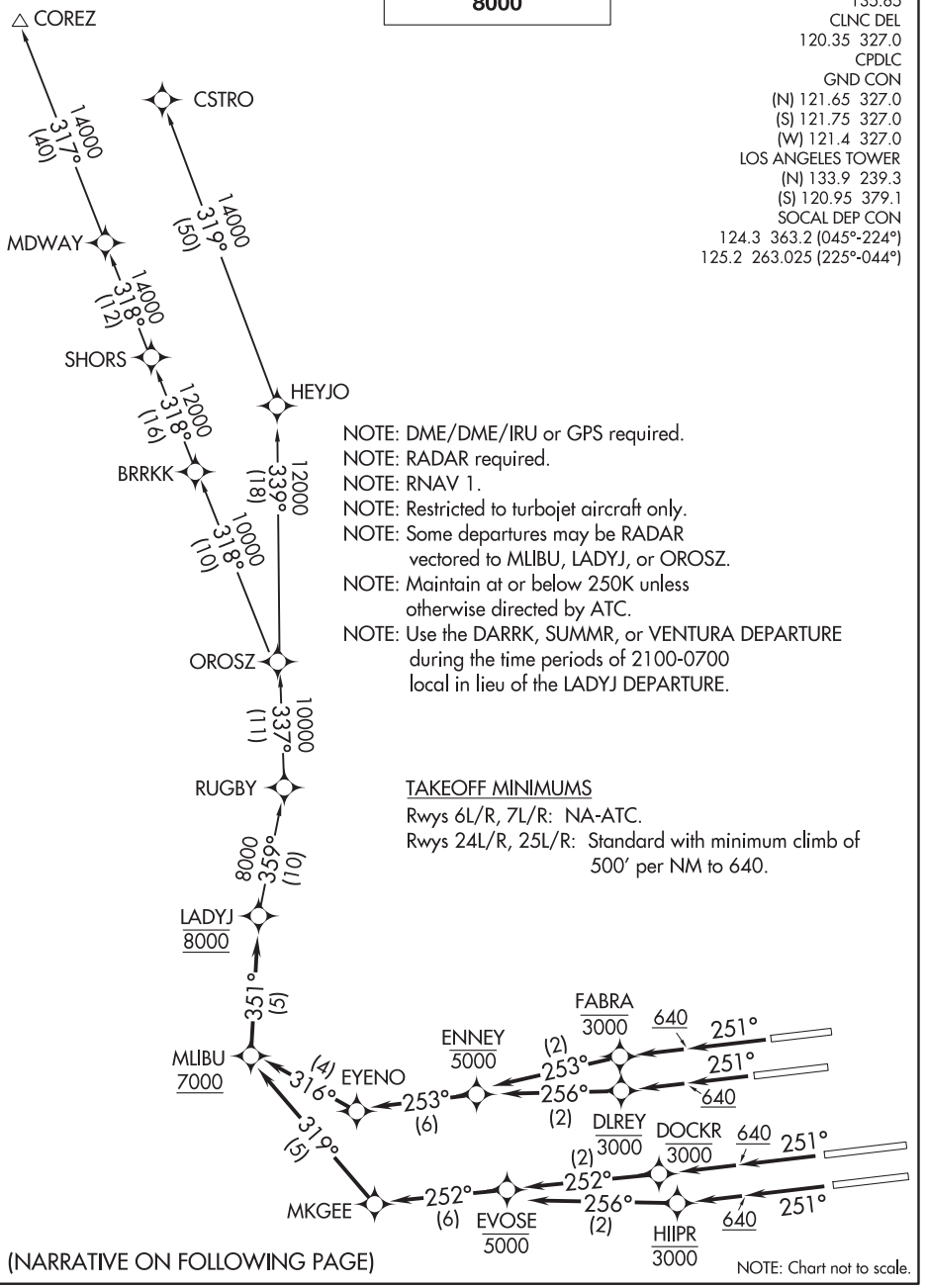
AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: 8000

D-ATIS DEP 135.65
CLNC DEL 120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Restricted to turbojet aircraft only.
NOTE: Some departures may be RADAR vectored to MLIBU, LADYJ, or OROSZ.
NOTE: Maintain at or below 250K unless otherwise directed by ATC.
NOTE: Use the DARRK, SUMMR, or VENTURA DEPARTURE during the time periods of 2100-0700 local in lieu of the LADYJ DEPARTURE.

TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R: NA-ATC.
Rwys 24L/R, 25L/R: Standard with minimum climb of 500′ per NM to 640.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 24L: Climb heading 251° to 640, then climb direct to cross DLREY at or below 3000, then on track 256° to cross ENNEY at or below 5000, then on track 253° to EYENO, then on track 316° to cross MLIBU at or above 7000, then on track 351° to cross LADYJ at 8000, thence. . . .

TAKEOFF RUNWAY 24R: Climb heading 251° to 640, then climb direct to cross FABRA at or below 3000, then on track 253° to cross ENNEY at or below 5000, then on track 253° to EYENO, then on track 316° to cross MLIBU at or above 7000, then on track 351° to cross LADYJ at 8000, thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 251° to 640, then climb direct to cross HIIPR at or below 3000, then on track 256° to cross EVOSE at or below 5000, then on track 252° to MKGEE, then on track 319° to cross MLIBU at or above 7000, then on track 351° to cross LADYJ at 8000, thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 251° to 640, then climb direct to cross DOCKR at or below 3000, then on track 252° to cross EVOSE at or below 5000, then on track 252° to MKGEE, then on track 319° to cross MLIBU at or above 7000, then on track 351° to cross LADYJ at 8000, thence. . . .

. . . .on (transition) maintain 8000. Expect filed altitude 5 minutes after departure.

COREZ TRANSITION (LADYJ4.COREZ)

CSTRO TRANSITION (LADYJ4.CSTRO)

SW-3, 05 NOV 2020 to 31 DEC 2020

LAXX ONE DEPARTURE

(LAXX1.SLI) 17AUG17

LOS ANGELES, CALIFORNIA

LOS ANGELES INTL (LAX)

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS

Rwy 6L/R, 7L/R, 24L/R, 25L/R: Standard.

NOTE: This departure is for turbojet aircraft only.

NOTE: RADAR and DME required.

D-ATIS DEP 135.65
CLNC DEL 120.35 327.0 CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

SANTA MONICA
110.8 SMO
Chan 45

LOS ANGELES
113.6 LAX
Chan 83

POMONA
110.4 POM
Chan 41

SEAL BEACH
115.7 SLI
Chan 104
N33°47.00'-W118°03.29'

SANTA CATALINA
111.4 SXC
Chan 51
N33°22.50'-W118°25.19'

EL TORO
117.2 ELB
Chan 119

THERMAL
116.2 TRM
Chan 109
N33°37.69'-W116°09.61'
L-4, H-4

JULIAN
114.0 JLI
Chan 87

OCEANSIDE
115.3 OCN
Chan 100
N33°14.44'-W117°25.06'
L-4, H-4

IMPERIAL
115.9 IPL
Chan 106
N32°44.93'-W115°30.51'
L-4, H-4

MISSION BAY
117.8 MZB
Chan 125
N32°46.93'-W117°13.53'
L-4, H-4

TUSTI
N33°46.02'
W117°50.17'

HEMET
N33°41.43'
W116°52.74'

DANAH
N33°28.86'
W117°41.90'

GOATZ
N33°11.09'
W118°40.25'

ROSIN
N31°56.53'
W120°16.11'

MALIT
N32°28.54'
W119°35.47'

CARIF
N33°02.32'
W117°19.96'

PILLO
N32°46.22'
W116°28.11'

FICKY

South complex turn at SMO R-160 to 221° is required for ATC separation.

Expect clearance to FICKY then on assigned route.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

LAXX ONE DEPARTURE

(LAXX1.SLI) 20310

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

AL-237 (FAA)

200

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R, 7L/R: Climb heading 071° for vectors to SLI VORTAC, thence. . . .
TAKEOFF RUNWAYS 24L/R: Climb on heading 251° to cross SMO R-160 at or below 3000, then on RADAR vectors to assigned route/fix/transition, thence. . . .
TAKEOFF RUNWAYS 25L/R: Climb on heading 251°, at the SMO R-160 turn left heading 221°, cross SMO R-160 at or below 3000, expect RADAR vectors to assigned route/fix/transition thence. . . .

. . . .all aircraft expect further clearance to filed flight level five minutes after departure.

IMPERIAL TRANSITION (LAXX1.IPL): From over SLI VORTAC on SLI R-120 to DANAH, then on OCN R-301 to OCN VORTAC, then on OCN R-105 to PILLO, then on MZB R-076 and IPL R-258 to IPL VORTAC.

MISSION BAY TRANSITION (LAXX1.MZB): From over SLI VORTAC on SLI R-120 to DANAH, then on OCN R-301 to OCN VORTAC, then on OCN R-145 to CARIF, then on MZB R-326 to MZB VORTAC.

OCEANSIDE TRANSITION (LAXX1.OCN): From over SLI VORTAC on SLI R-120 to DANAH, then on OCN R-301 to OCN VORTAC.

ROSIN TRANSITION (LAXX1.ROSIN): From over SLI VORTAC on SLI R-202 and SXC R-022 to SXC VORTAC, then on SXC R-213 to ROSIN.

THERMAL TRANSITION (LAXX1.TRM): From over SLI VORTAC on SLI R-080 to TUSTI, then on SLI R-080 and TRM R-263 to HEMET, then on TRM R-263 to TRM VORTAC.

LOST COMMUNICATIONS

RUNWAYS 6L/R, 7L/R: If not in contact with Departure Control within five minutes after departure, climb to FL230 or filed altitude whichever is lower, turn right direct SLI VORTAC and proceed on assigned route. Aircraft filed FL240 or above, maintain FL230 for five minutes then continue climb to filed altitude.
RUNWAYS 24L/R, 25L/R: If not in contact with Departure Control within five minutes after departure, turn left heading 080°, climb to FL230 or filed altitude whichever is lower, and when able proceed direct filed or assigned route. Aircraft filed FL240 or above, maintain FL230 for five minutes then continue climb to filed altitude.

SW-3, 05 NOV 2020 to 31 DEC 2020

MOOOS TWO DEPARTURE (RNAV)

(MOOOS2.MOOOS) 17AUG17

(MOOOS2.MOOOS) 17229

AL-237 (FAA)

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

D-ATIS DEP
135.65
CLNC DEL
120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

TOP ALTITUDE: 9000

N

IKAYE △

5400
282°
(14)

MOOOS
8000
4900

282°
(9)

DTAIL
3100

640
251°
251°
251°
251°
640

TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R: NA-ATC.
Rwys 24L/R, 25L/R: Standard with minimum climb of 500′ per NM to 640.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Turboprop aircraft only.
NOTE: DME/DME/IRU or GPS required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 24L/R, 25L/R: Climb heading 251° to 640, then on heading 251° or as assigned by ATC, expect vectors to cross DTAIL at or above 3100, then on track 282° to cross MOOOS at or above 4900 and at or below 8000, thence. . . .

. . . .on (transition). Maintain 9000. Expect filed altitude five minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, turn right and proceed direct MOOOS WP, climb to 9000′ or filed altitude whichever is lower, and when able proceed direct filed or assigned route/fix/transition. Aircraft filing 10000 or above, climb to filed altitude ten minutes after departure.

IKAYE TRANSITION (MOOOS2.IKAYE)

D-ATIS DEP 135.65
CLNC DEL 120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)
TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R: NA-ATC.
Rwys 24L/R, 25L/R: Standard with minimum climb of 500' per NM to 640.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Turbojets only.
NOTE: Maintain at or below 250K unless otherwise directed by ATC.
N
TOP ALTITUDE: 10000
SAN MARCUS RZS
10000 288° (24)
SCHOR
10000 288° (9)
10000 273° (16)
KWANG
WGGNR
10000 289° (11)
IKAYE
10000 342° (10)
FIXIT 10000 290K
289° (7)
MUELR
253° (11)
NAANC
253° (7)
ENNEY 5000 1300
257° (12)
252° (6)
MKGEE
EVOSE 5000 1300
256° (2)
252° (2)
DLREY 3000
256° (2)
253° (2)
FABRA 3000
640
251°
DOCKR 3000
640
251°
HIIPR 3000
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 24L: Climb on heading 251° to 640, then climb direct to cross DLREY at or below 3000, then on track 256° to cross ENNEY at or above 1300 and at or below 5000, then on depicted route to cross FIXIT at 10000, thence. . . .

TAKEOFF RUNWAY 24R: Climb on heading 251° to 640, then climb direct to cross FABRA at or below 3000, then on track 253° to cross ENNEY at or above 1300 and at or below 5000, then on depicted route to cross FIXIT at 10000, thence. . . .

TAKEOFF RUNWAY 25L: Climb on heading 251° to 640, then climb direct to cross HIIPR at or below 3000, then on track 256° to cross EVOSE at or above 1300 and at or below 5000, then on depicted route to cross FIXIT at 10000, thence. . . .

TAKEOFF RUNWAY 25R: Climb on heading 251° to 640, then climb direct to cross DOCKR at or below 3000, then on track 252° to cross EVOSE at or above 1300 and at or below 5000, then on depicted route to cross FIXIT at 10000, thence. . . .

. . . .on (transition). Maintain 10000. Expect filed altitude five minutes after departure.

KWANG TRANSITION (MUELR4.KWANG)
SAN MARCUS TRANSITION (MUELR4.RZS)

SW-3, 05 NOV 2020 to 31 DEC 2020

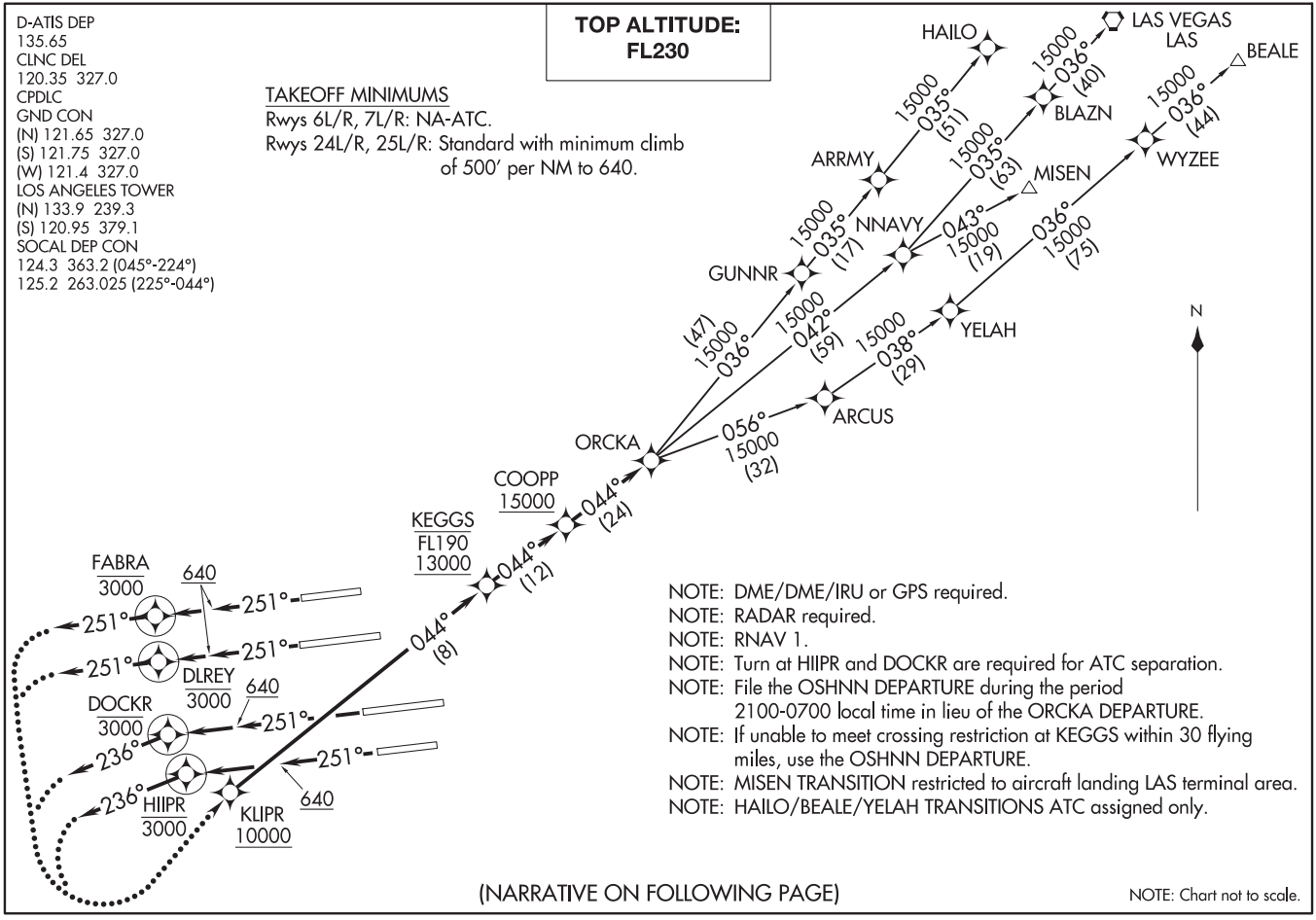
ORCKA FIVE DEPARTURE (RNAV)
(ORCKA5.ORCKA) 10SEP20

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

D-ATIS DEP
135.65
CLNC DEL
120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

TOP ALTITUDE: FL230

TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R: NA-ATC.
Rwys 24L/R, 25L/R: Standard with minimum climb of 500′ per NM to 640.



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Turn at HIIPR and DOCKR are required for ATC separation.
NOTE: File the OSHNN DEPARTURE during the period 2100-0700 local time in lieu of the ORCKA DEPARTURE.
NOTE: If unable to meet crossing restriction at KEGGS within 30 flying miles, use the OSHNN DEPARTURE.
NOTE: MISEN TRANSITION restricted to aircraft landing LAS terminal area.
NOTE: HAILO/BEALE/YELAH TRANSITIONS ATC assigned only.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(ORCKA5.ORCKA) 20254
ORCKA FIVE DEPARTURE (RNAV)
AL-237 (FAA)
LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 24L: Climb on heading 251° to 640, then climb direct to cross DLREY at or below 3000, then on heading 251° or as assigned by ATC, expect left turn to cross KLIPR at or above 10000, then on track 044° to cross KEGGS at or above 13000 and at or below FL190, then on track 044° to cross COOPP at or above 15000, then on track 044° to ORCKA, thence. . . .

TAKEOFF RUNWAY 24R: Climb on heading 251° to 640, then climb direct to cross FABRA at or below 3000, then on heading 251° or as assigned by ATC, expect left turn to cross KLIPR at or above 10000, then on track 044° to cross KEGGS at or above 13000 and at or below FL190, then on track 044° to cross COOPP at or above 15000, then on track 044° to ORCKA, thence. . . .

TAKEOFF RUNWAY 25L: Climb on heading 251° to 640, then climb direct to cross HIIPR at or below 3000, then on heading 236° or as assigned by ATC, expect left turn to cross KLIPR at or above 10000, then on track 044° to cross KEGGS at or above 13000 and at or below FL190, then on track 044° to cross COOPP at or above 15000, then on track 044° to ORCKA, thence. . . .

TAKEOFF RUNWAY 25R: Climb on heading 251° to 640, then climb direct to cross DOCKR at or below 3000, then on heading 236° or as assigned by ATC, expect left turn to cross KLIPR at or above 10000, then on track 044° to cross KEGGS at or above 13000 and at or below FL190, then on track 044° to cross COOPP at or above 15000, then on track 044° to ORCKA, thence. . . .

. . . .on (transition). Maintain FL230. Expect filed altitude five minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within five minutes after departure, turn left and proceed direct KLIPR Waypoint, climb to FL230 or filed altitude whichever is lower, and when able proceed direct filed or assigned route/fix/transition. Aircraft filing FL240 or above, climb to filed altitude ten minutes after departure.

BEALE TRANSITION (ORCKA5.BEALE)
HAILO TRANSITION (ORCKA5.HAILO)
LAS VEGAS TRANSITION (ORCKA5.LAS)
MISEN TRANSITION (ORCKA5.MISEN)
YELAH TRANSITION (ORCKA5.YELAH)

OSHNN NINE DEPARTURE (RNAV)

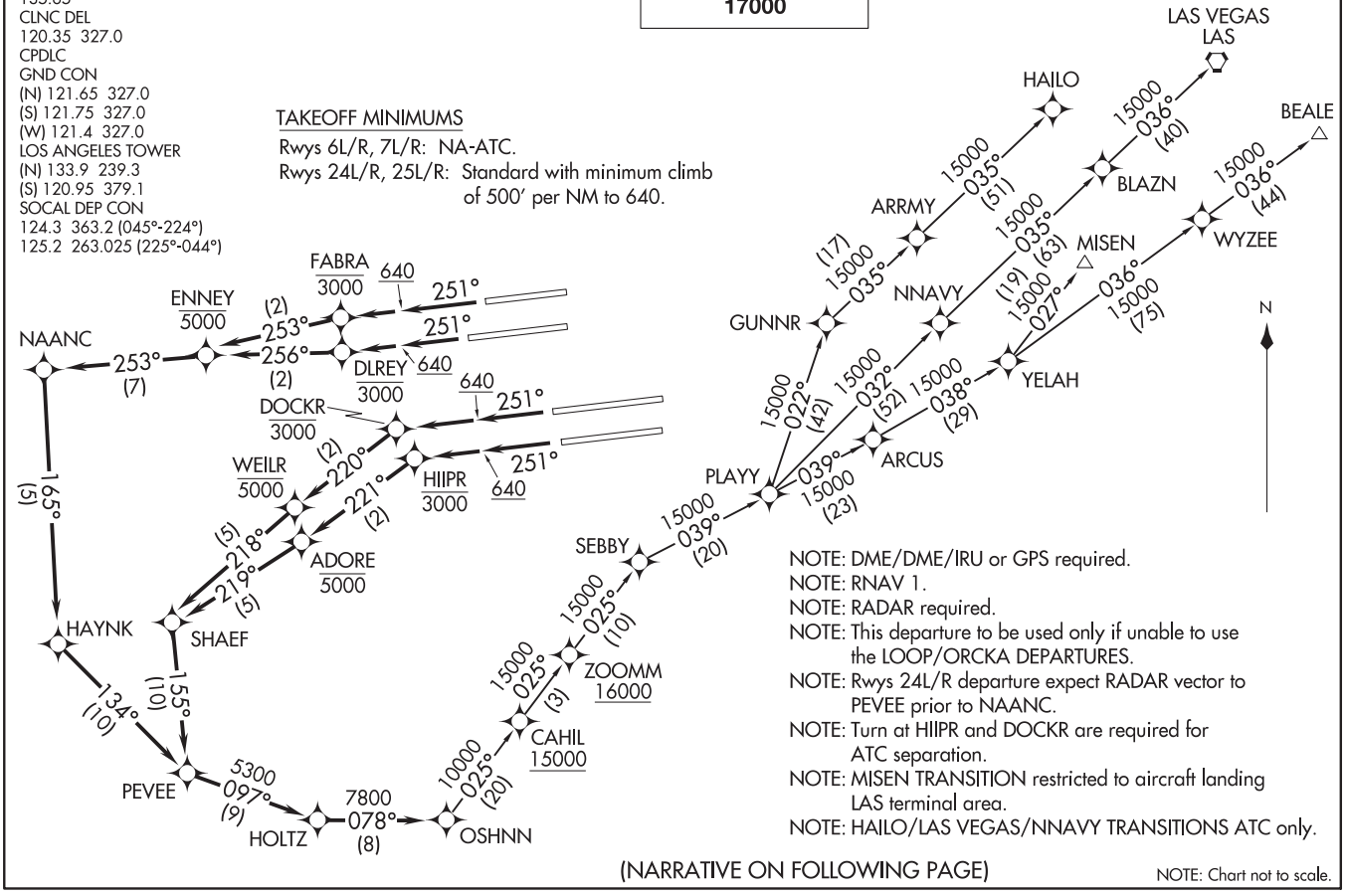
(OSHNN9.OSHNN) 10SEP20

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

D-ATIS DEP
135.65
CLNC DEL
120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

TOP ALTITUDE: 17000

TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R: NA-ATC.
Rwys 24L/R, 25L/R: Standard with minimum climb of 500′ per NM to 640.



NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: This departure to be used only if unable to use the LOOP/ORCKA DEPARTURES.
NOTE: Rwys 24L/R departure expect RADAR vector to PEVEE prior to NAANC.
NOTE: Turn at HIIPR and DOCKR are required for ATC separation.
NOTE: MISEN TRANSITION restricted to aircraft landing LAS terminal area.
NOTE: HAILO/LAS VEGAS/NNAVY TRANSITIONS ATC only.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

OSHNN NINE DEPARTURE (RNAV)

(OSHNN9.OSHNN) 20254

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

(OSHNN9.OSHNN) 20254

OSHNN NINE DEPARTURE (RNAV)

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 24L: Climb on heading 251° to 640, then climb direct to cross DLREY at or below 3000, then on track 256° to cross ENNEY at or below 5000, then on depicted route to OSHNN, thence. . . .

TAKEOFF RUNWAY 24R: Climb on heading 251° to 640, then climb direct to cross FABRA at or below 3000, then on track 253° to cross ENNEY at or below 5000, then on depicted route to OSHNN, thence. . . .

TAKEOFF RUNWAY 25L: Climb on heading 251° to 640, then climb direct to cross HIIPR at or below 3000, then on track 221° to cross ADORE at or below 5000, then on depicted route to OSHNN, thence. . . .

TAKEOFF RUNWAY 25R: Climb on heading 251° to 640, then climb direct to cross DOCKR at or below 3000, then on track 220° to cross WEILR at or below 5000, then on depicted route to OSHNN, thence. . . .

. . . .on (transition). Maintain 17000. Expect filed altitude five minutes after departure.

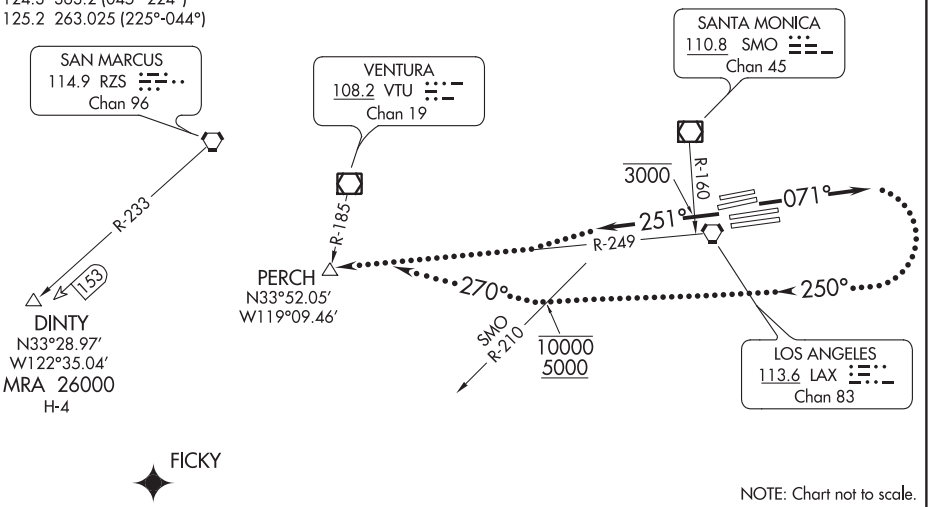
BEALE TRANSITION (OSHNN9.BEALE)
HAILO TRANSITION (OSHNN9.HAILO)
LAS VEGAS TRANSITION (OSHNN9.LAS)
MISEN TRANSITION (OSHNN9.MISEN)
NNAVY TRANSITION (OSHNN9.NNAVY)

D-ATIS DEP
135.65
CLNC DEL
120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R, 24L/R, 25L/R: Standard.

NOTE: RADAR and DME required.
NOTE: Route depicted is a LOST COMMUNICATION PROCEDURE only.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R, 7L/R: Climb on heading 071° for RADAR vectors to DINTY or FICKY, thence. . . .

TAKEOFF RUNWAYS 24L/R, 25L/R: Climb on heading 251° to cross SMO R-160 at or below 3000, then on RADAR vectors to DINTY or FICKY, thence. . . .

. . . .on (assigned route). All aircraft expect further clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS:

TAKEOFF RUNWAYS 6L/R, 7L/R: If not in contact with Departure Control within 3 minutes after departure, turn right heading 250°, cross SMO R-210 at or above 5000 and at or below 10000. After leaving 10000, turn right heading 270° to intercept and proceed on LAX R-249 to PERCH INT. Climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude 10 minutes after departure.

TAKEOFF RUNWAYS 24L/R, 25L/R: If not in contact with Departure Control within 5 minutes after departure, proceed to PERCH INT on LAX R-249. Climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude 10 minutes after departure.

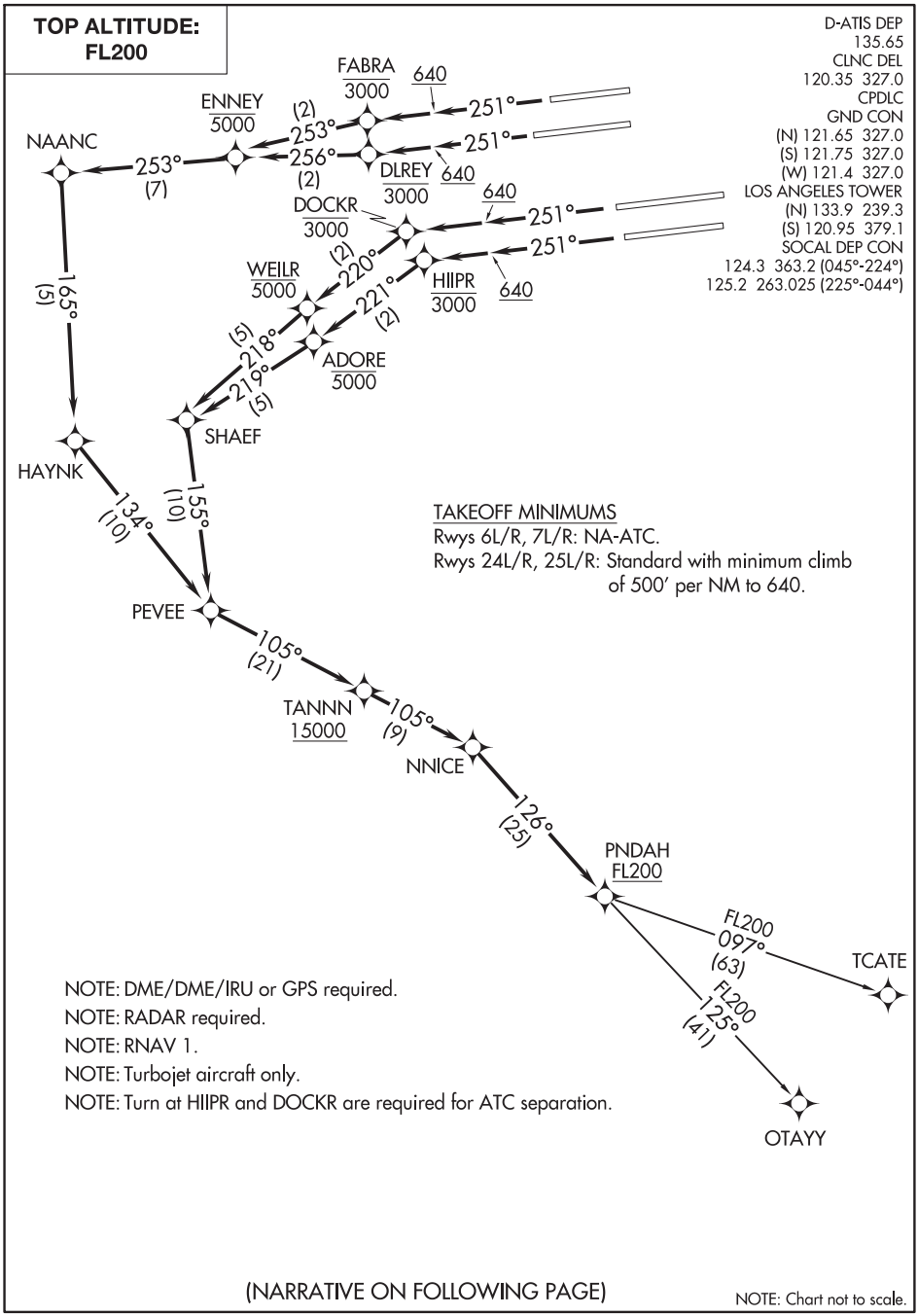
SW-3, 05 NOV 2020 to 31 DEC 2020

(PNDAH2.PNDAH) 17229

PNDAH TWO DEPARTURE (RNAV)

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

PNDAH TWO DEPARTURE (RNAV)

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

(PNDAH2.PNDAH) 17AUG17

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 24L: Climb heading 251° to 640, then climb direct to cross DLREY at or below 3000, then on track 256° to cross ENNEY at or below 5000, then on depicted route to PNDAH, thence. . . .

TAKEOFF RUNWAY 24R: Climb heading 251° to 640, then climb direct to cross FABRA at or below 3000, then on track 253° to cross ENNEY at or below 5000, then on depicted route to PNDAH, thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 251° to 640, then climb direct to cross HIIPR at or below 3000, then on track 221° to cross ADORE at or below 5000, then on depicted route to PNDAH, thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 251° to 640, then climb direct to cross DOCKR at or below 3000, then on track 220° to cross WEILR at or below 5000, then on depicted route to PNDAH, thence. . . .

. . . .on (transition). Maintain FL200. Expect filed altitude five minutes after departure.

OTAYY TRANSITION (PNDAH2.OTAYY)
TCATE TRANSITION (PNDAH2.TCATE)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(SLI8.SLI) 17229

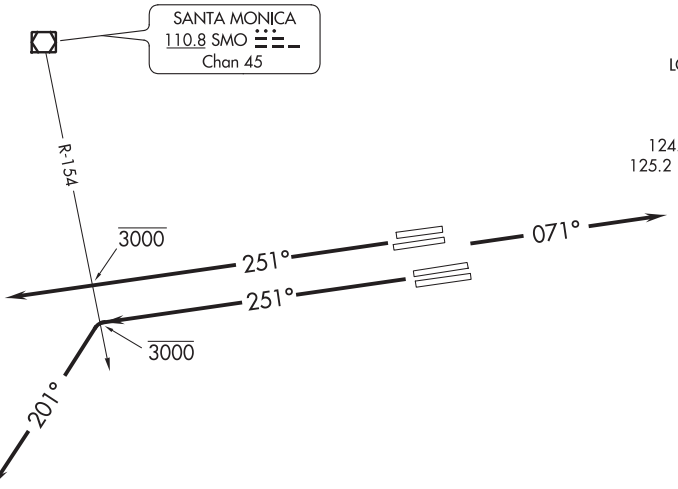
SEAL BEACH EIGHT DEPARTURE

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

TOP ALTITUDE: ASSIGNED BY ATC

D-ATIS DEP
135.65
CLNC DEL
120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)



TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R, 24L/R, 25L/R: Standard.

SEAL BEACH
115.7 SLI
Chan 104
N33°47.00'-W118°03.29'
L-3-4, H-4

NOTE: TAKEOFF RWYS 24L/R, 25L/R: This departure is for non-turbojet aircraft. Turbojet aircraft use LAXX DEPARTURE.
NOTE: South Complex turn at SMO R-154 to 201° is required for ATC separation.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

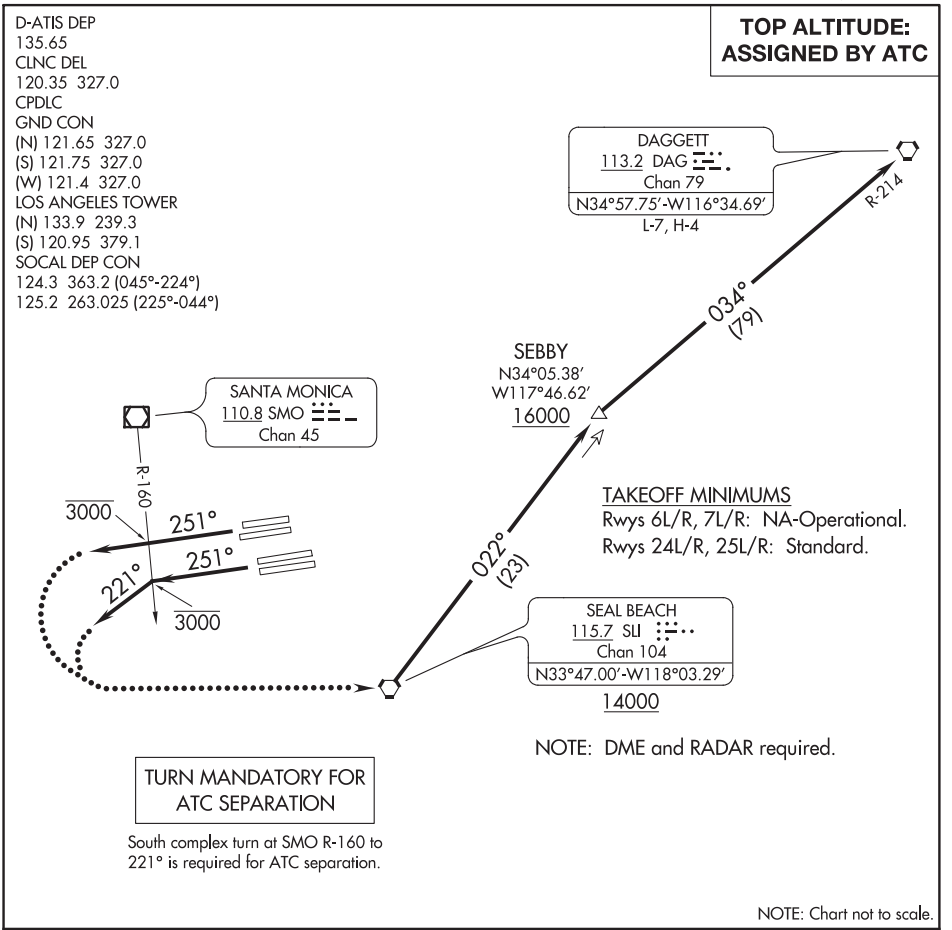
TAKEOFF RUNWAYS 6L/R, 7L/R: Climb on heading 071° for RADAR vectors to SLI VORTAC, thence. . . .

TAKEOFF RUNWAYS 24L/R: Climb on heading 251° to cross SMO R-154 at or below 3000, then RADAR vectors to SLI VORTAC, thence. . . .

TAKEOFF RUNWAYS 25L/R: Climb on heading 251° to cross SMO R-154 at or below 3000, then turn left heading 201° for RADAR vectors to SLI VORTAC, thence. . . .

. . . .on (assigned route). All aircraft expect further clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.



SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 24L/R: Climb on heading 251° to cross SMO VOR/DME R-160 at or below 3000, thence. . . .
TAKEOFF RUNWAYS 25L/R: Climb on heading 251°, at the SMO VOR/DME R-160 turn left heading 221°, cross SMO R-160 at or below 3000, thence. . . .

. . . .on RADAR vectors to cross SLI VORTAC at or above 14000, then on SLI R-022 to cross SEBBY/23 DME FIX at or above 16000. Then on DAG R-214 to DAG VORTAC. All aircraft expect further clearance to filed flight level five minutes after departure.

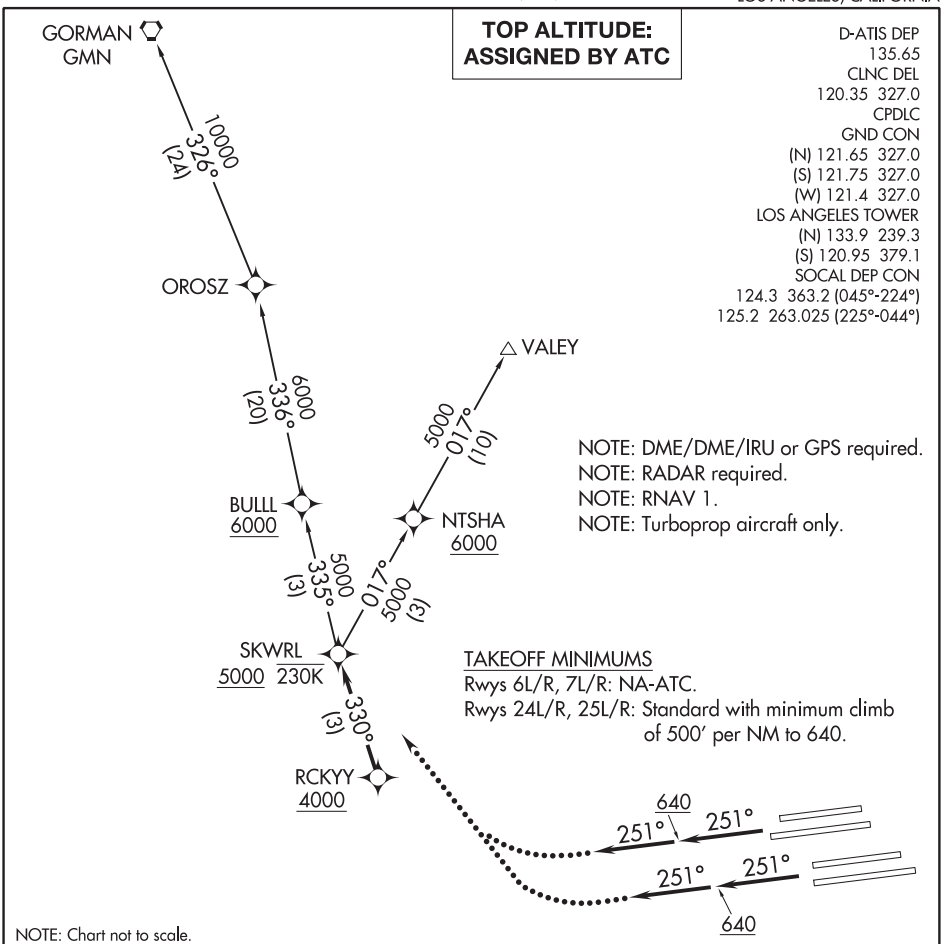
LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, turn left direct SLI VORTAC and proceed on assigned route, climb to FL230 or filed altitude whichever is lower. Aircraft filed FL240 or above climb to filed altitude ten minutes after departure.

(SKWRL2.SKWRL) 17229

SKWRL TWO DEPARTURE (RNAV)

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 24L/R, 25 L/R: Climb heading 251° to 640, then on heading 251° or as assigned by ATC, expect vectors to cross RCKYY at or above 4000, then on track 330° to cross SKWRL at or above 5000, thence. . . .

. . . .on (transition). Maintain ATC assigned altitude. Expect filed altitude five minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within five minutes after departure, turn right and proceed direct SKWRL WP, climb to 7000 or filed altitude whichever is lower, and when able proceed direct filed or assigned route/fix/transition. Aircraft filing 8000 or above, climb to filed altitude ten minutes after departure.

GORMAN TRANSITION (SKWRL2.GMN)
VALEY TRANSITION (SKWRL2.VALEY)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SUMMR TWO DEPARTURE (RNAV)

(SUMMR2.SUMMR) 10OCT19

LOS ANGELES, CALIFORNIA

LOS ANGELES INTL (LAX)

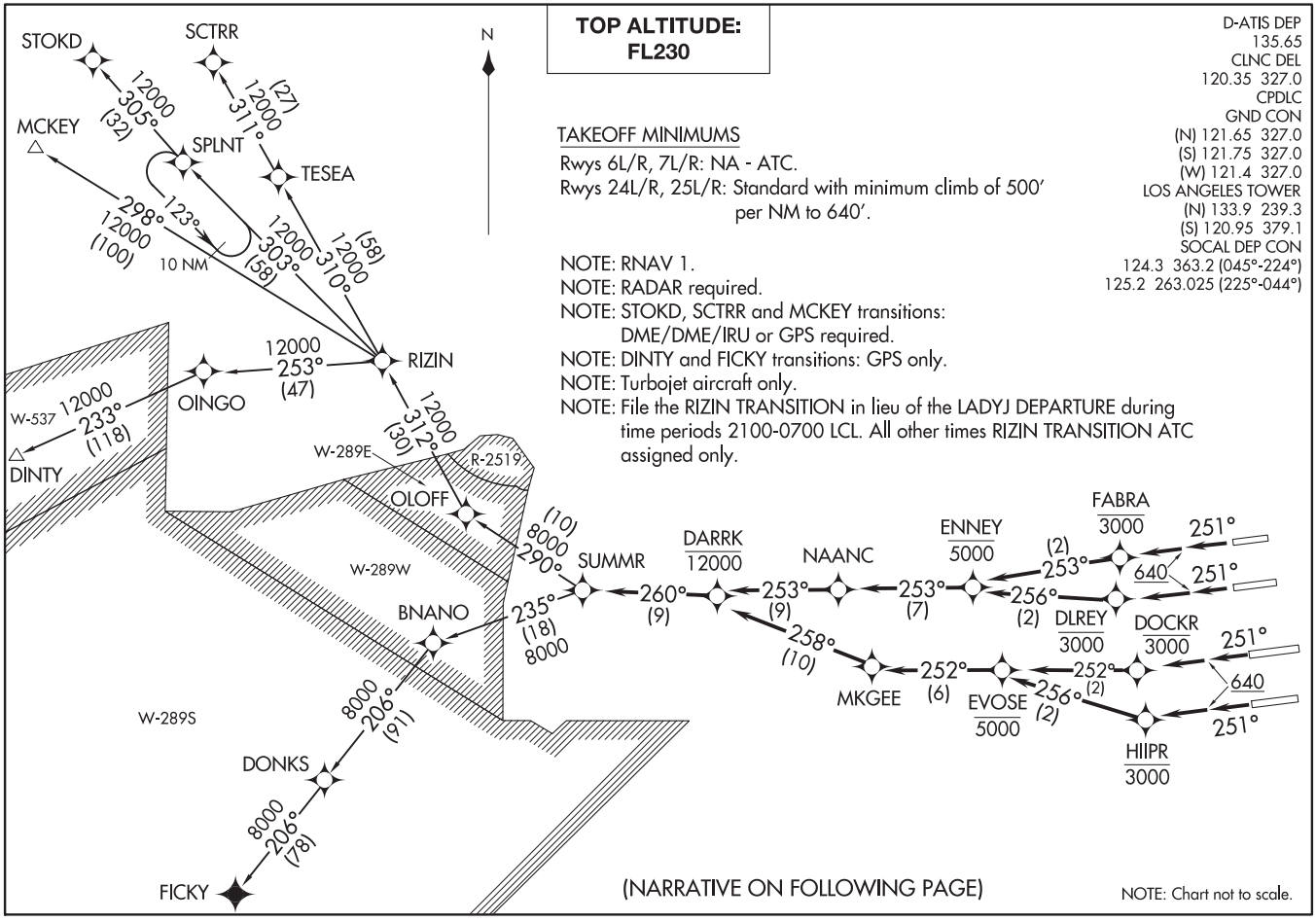
TOP ALTITUDE: FL230

D-ATIS DEP 135.65
CLNC DEL 120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

TAKEOFF MINIMUMS

Rwys 6L/R, 7L/R: NA - ATC.
Rwys 24L/R, 25L/R: Standard with minimum climb of 500' per NM to 640'.

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: STOKD, SCTRR and MCKEY transitions: DME/DME/IRU or GPS required.
NOTE: DINTY and FICKY transitions: GPS only.
NOTE: Turbojet aircraft only.
NOTE: File the RIZIN TRANSITION in lieu of the LADYJ DEPARTURE during time periods 2100-0700 LCL. All other times RIZIN TRANSITION ATC assigned only.



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(SUMMR2.SUMMR) 19283

SUMMR TWO DEPARTURE (RNAV)

AL-237 (FAA)

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 24L: Climb heading 251° to 640, then climb direct to cross DLREY at or below 3000, then on track 256° to cross ENNEY at or below 5000, then on track 253° to NAANC, then on track 253° to cross DARRK at or below 12000, then on track 260° to SUMMR, thence. . . .

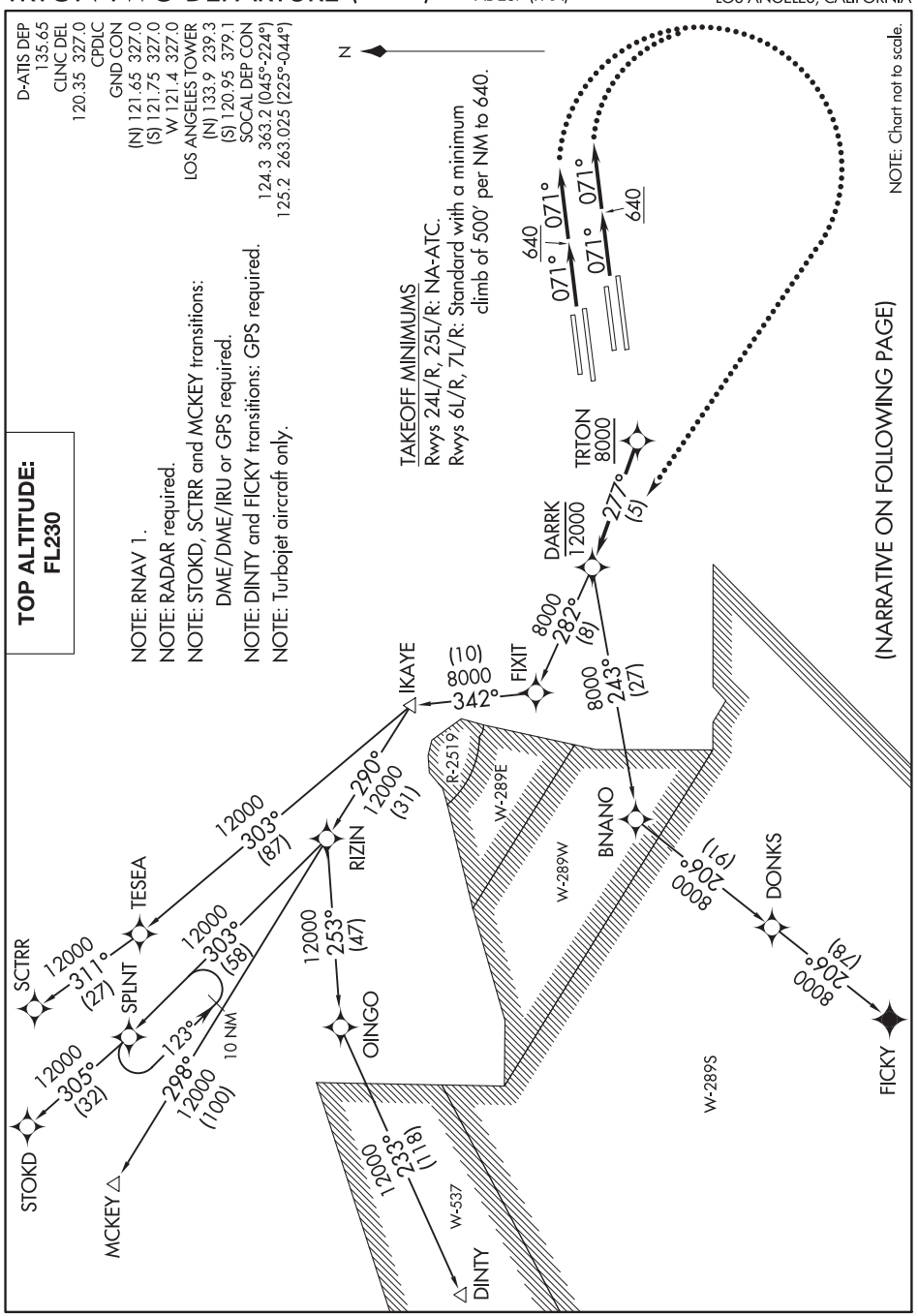
TAKEOFF RUNWAY 24R: Climb heading 251° to 640, then climb direct to cross FABRA at or below 3000, then on track 253° to cross ENNEY at or below 5000, then on track 253° to NAANC, then on track 253° to cross DARRK at or below 12000, then on track 260° to SUMMR, thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 251° to 640, then climb direct to cross HIIPR at or below 3000, then on track 256° to cross EVOSE at or below 5000, then on track 252° to MKGEE, then on track 258° to cross DARRK at or below 12000, then on track 260° to SUMMR, thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 251° to 640, then climb direct to cross DOCKR at or below 3000, then on track 252° to cross EVOSE at or below 5000, then on track 252° to MKGEE, then on track 258° to cross DARRK at or below 12000, then on track 260° to SUMMR, thence. . . .

. . . .on (transition) maintain FL230. Expect filed altitude 5 minutes after departure.

DINTY TRANSITION (SUMMR2.DINTY)
FICKY TRANSITION (SUMMR2.FICKY)
MCKEY TRANSITION (SUMMR2.MCKEY)
RIZIN TRANSITION (SUMMR2.RIZIN)
SCTRR TRANSITION (SUMMR2.SCTRR)
STOKD TRANSITION (SUMMR2.STOKD)


D-ATIS DEP 135.65
CLNC DEL 120.35 327.0
CPDLC
GND CON (N) 121.65 327.0 (S) 121.75 327.0 W 121.4 327.0
LOS ANGELES TOWER (N) 133.9 239.3 (S) 120.95 379.1
SOCAL DEP CON 124.3 363.2 (045°-224°) 125.2 263.025 (225°-044°)
TOP ALTITUDE: FL230
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: STOKD, SCTRR and MCKEY transitions: DME/DME/IRU or GPS required.
NOTE: DINTY and FICKY transitions: GPS required.
NOTE: Turbojet aircraft only.
TAKEOFF MINIMUMS
Rwys 24L/R, 25L/R: NA-ATC.
Rwys 6L/R, 7L/R: Standard with a minimum climb of 500' per NM to 640.
N
640
071°
071°
071°
071°
640
TRTON 8000
277° (5)
DARRK 12000
8000 282° (8)
FIXIT
(10) 8000 342°
IKAYE
8000 243° (27)
R-2519
W-289E
W-289W
W-289S
BNANO
RIZIN
290° 12000 (31)
12000 303° (87)
TESEA
SCTRR
12000 311° (27)
SPLINT
12000 303° (58)
123°
10 NM
298° 12000 (100)
STOKD
MCKEY
12000 305° (32)
12000 253° (47)
OINGO
12000 233° (118)
W-537
DINTY
8000 206° (91)
DONKS
8000 206° (78)
FICKY
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R, 7L/R: Climb on heading 071° to 640, then climb on heading 071° or as assigned by ATC, expect vectors to cross TRTON at or above 8000, then on track 277° to cross DARRK at or below 12000, thence. . . .

. . . .on (transition) maintain FL230. Expect filed altitude 5 minutes after departure.

LOST COMMUNICATIONS

If not in contact with departure control within 5 minutes after departure, turn right and proceed direct DARRK WP, cross DARRK at or below 12000'. Climb to FL230 or filed altitude, whichever is lower, and when able proceed direct filed route or assigned route/fix/transition. Aircraft filing FL240 or above, climb to filed altitude ten minutes after departure.

DINTY TRANSITION (TRTON2.DINTY)
FICKY TRANSITION (TRTON2.FICKY)
MCKEY TRANSITION (TRTON2.MCKEY)
SCTRR TRANSITION (TRTON2.SCTRR)
STOKD TRANSITION (TRTON2.STOKD)

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 06 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R, 7L/R: Climb heading 071° to 640, then on heading 071° or as assigned by ATC, expect vectors to BUULI, then on track 099° to TUSTI, thence. . . .

. . . .on (transition) maintain 17000, expect filed altitude five minutes after departure.

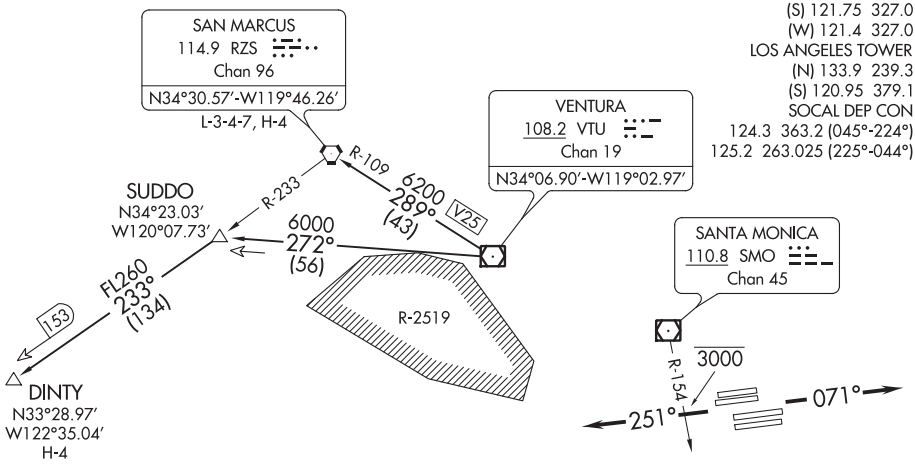
LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, turn right and proceed direct BUULI WP, cross BUULI at or below 9000. Climb to FL230 or filed altitude whichever is lower, and when able proceed direct filed or assigned route/fix/transition. Aircraft filing FL230 or above, climb to filed altitude ten minutes after departure.

AVRRY TRANSITION (TUSTI2.AVRRY)
CNERY TRANSITION (TUSTI2.CNERY)
OTAYY TRANSITION (TUSTI2.OTAYY)
TCATE TRANSITION (TUSTI2.TCATE)

SW-3, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: ASSIGNED BY ATC

D-ATIS DEP 135.65
CLNC DEL 120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)



TAKEOFF MINIMUMS
Rwys 6L/R, 7L/R, 24L/R, 25L/R: Standard.

NOTE: RADAR required.
NOTE: DINTY TRANSITION: DME required.

NOTE: Chart not scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R, 7L/R: Climb on heading 071° for RADAR vectors to VTU VOR/DME, thence. . . .

TAKEOFF RUNWAYS 24L/R, 25L/R: Climb on heading 251° for RADAR vectors to VTU VOR/DME, cross SMO R-154 at or below 3000, thence. . . .

. . . .on (assigned route). All aircraft expect further clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure climb to FL230 or filed altitude, whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

DINTY TRANSITION (VTU8.DINTY): From over VTU VOR/DME on VTU R-272 to SUDDO INT then on RZS R-233 to DINTY.

SAN MARCUS TRANSITION (VTU8.RZS): From over VTU VOR/DME on VTU R-289 and RZS R-109 to RZS VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(WNNDY3.WNNDY) 19003

WNNDY THREE DEPARTURE (RNAV)

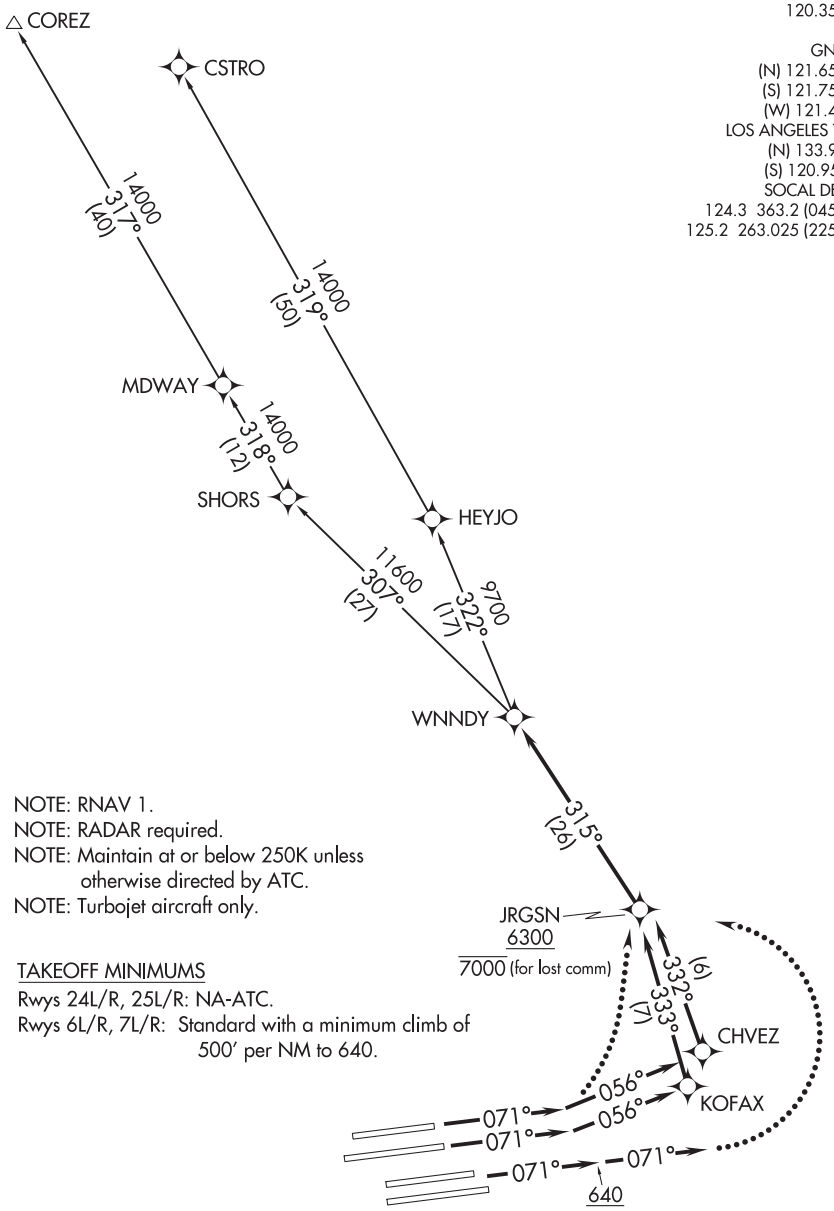
AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: FL230

D-ATIS DEP 135.65
CLNC DEL 120.35 327.0
CPDLC
GND CON
(N) 121.65 327.0
(S) 121.75 327.0
(W) 121.4 327.0
LOS ANGELES TOWER
(N) 133.9 239.3
(S) 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)



NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: Maintain at or below 250K unless otherwise directed by ATC.
NOTE: Turbojet aircraft only.

TAKEOFF MINIMUMS
Rwys 24L/R, 25L/R: NA-ATC.
Rwys 6L/R, 7L/R: Standard with a minimum climb of 500' per NM to 640.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6L: Climb heading 071° to intercept course 056° to CHVEZ, then on track 332° to cross JRGSN at or above 6300, then on track 315° to WNNDY, thence. . . .

TAKEOFF RUNWAY 6R: Climb heading 071° to intercept course 056° to KOFAX, then on track 333° to cross JRGSN at or above 6300, then on track 315° to WNNDY, thence. . . .

TAKEOFF RUNWAYS 7L/R: Climb heading 071° to 640, then on heading 071° or as assigned by ATC, for vectors to cross JRGSN at or above 6300, then on track 315° to WNNDY, thence. . . .

. . . .on (transition) maintain FL230. Expect filed altitude 5 minutes after departure.

LOST COMMUNICATIONS

If not in contact with departure control within 5 minutes after departure, turn left and proceed direct JRGSN WP, cross JRGSN at or below 7000. Climb to FL230 or filed altitude whichever is lower, and when able proceed direct filed or assigned route/fix/transition. Aircraft filing FL240 or above, climb to filed altitude ten minutes after departure.

COREZ TRANSITION (WNNDY3.COREZ)

CSTRO TRANSITION (WNNDY3.CSTRO)

SW-3, 05 NOV 2020 to 31 DEC 2020

(ZILLI4.ZILLI) 17229

ZILLI FOUR DEPARTURE (RNAV)

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 24L: Climb heading 251° to 640, then climb direct to cross DLREY at or below 3000, then on track 256° to cross ENNEY at or below 5000, then on depicted route to ZILLI, thence. . . .

TAKEOFF RUNWAY 24R: Climb heading 251° to 640, then climb direct to cross FABRA at or below 3000, then on track 253° to cross ENNEY at or below 5000, then on depicted route to ZILLI, thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 251° to 640, then climb direct to cross HIIPR at or below 3000, then on track 221° to cross ADORE at or below 5000, then on depicted route to ZILLI, thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 251° to 640, then climb direct to cross DOCKR at or below 3000, then on track 220° to cross WEILR at or below 5000, then on depicted route to ZILLI, thence. . . .

. . . .on (transition). Maintain 14000, expect filed altitude five minutes after departure.

BEAUT TRANSITION (ZILLI4.BEAUT)
LAUER TRANSITION (ZILLI4.LAUER)

SW-3, 05 NOV 2020 to 31 DEC 2020

LOS ANGELES, CALIFORNIA AL-9132 (FAA) 20030

APP CRS	Rwy Idg	3181
109°	TDZE	998
	Apt Elev	1003

RNAV (GPS) RWY 12

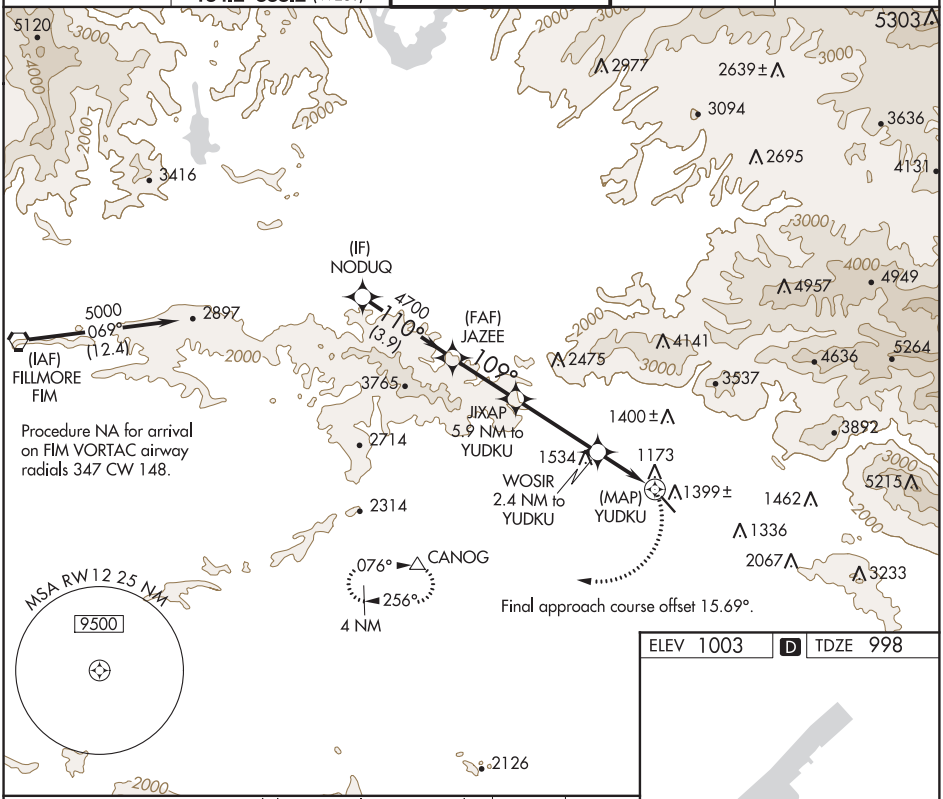
WHITEMAN (WHP)

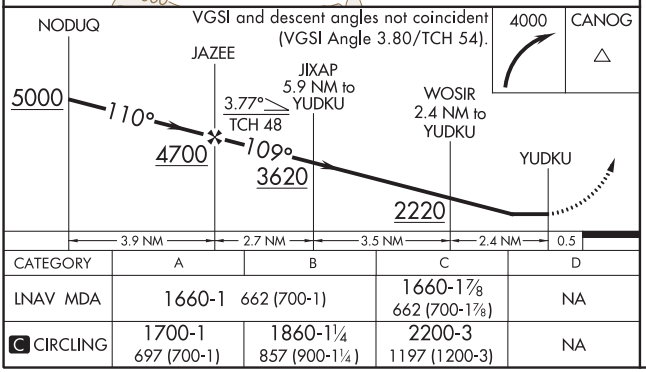
RNP APCH.

T NA Procedure NA at night. When local altimeter setting not received, use Burbank altimeter setting. Rwy 12 helicopter visibility reduction below 1 SM NA.

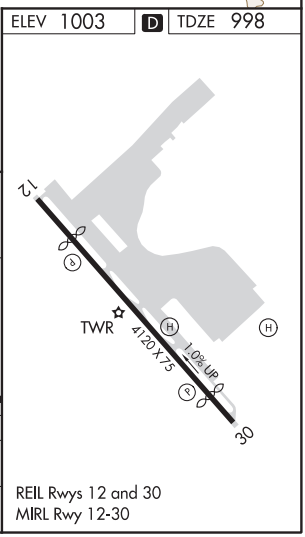
MISSED APPROACH: Climbing right turn to 4000 direct CANOG and hold.

ATIS	SOCAL APP CON	WHITEMAN TOWER ★	GND CON	UNICOM
132.1	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	135.0 (CTAF)	125.0	122.95





CATEGORY	A	B	C	D
LNAV MDA	1660-1 662 (700-1)		1660-1⅞ 662 (700-1⅞)	NA
C CIRCLING	1700-1 697 (700-1)	1860-1¼ 857 (900-1¼)	2200-3 1197 (1200-3)	NA



LOS ANGELES, CALIFORNIA
Orig-A 30JAN20

34°16′N-118°25′W

WHITEMAN (WHP)

RNAV (GPS) RWY 12

SW-3, 05 NOV 2020 to 31 DEC 2020

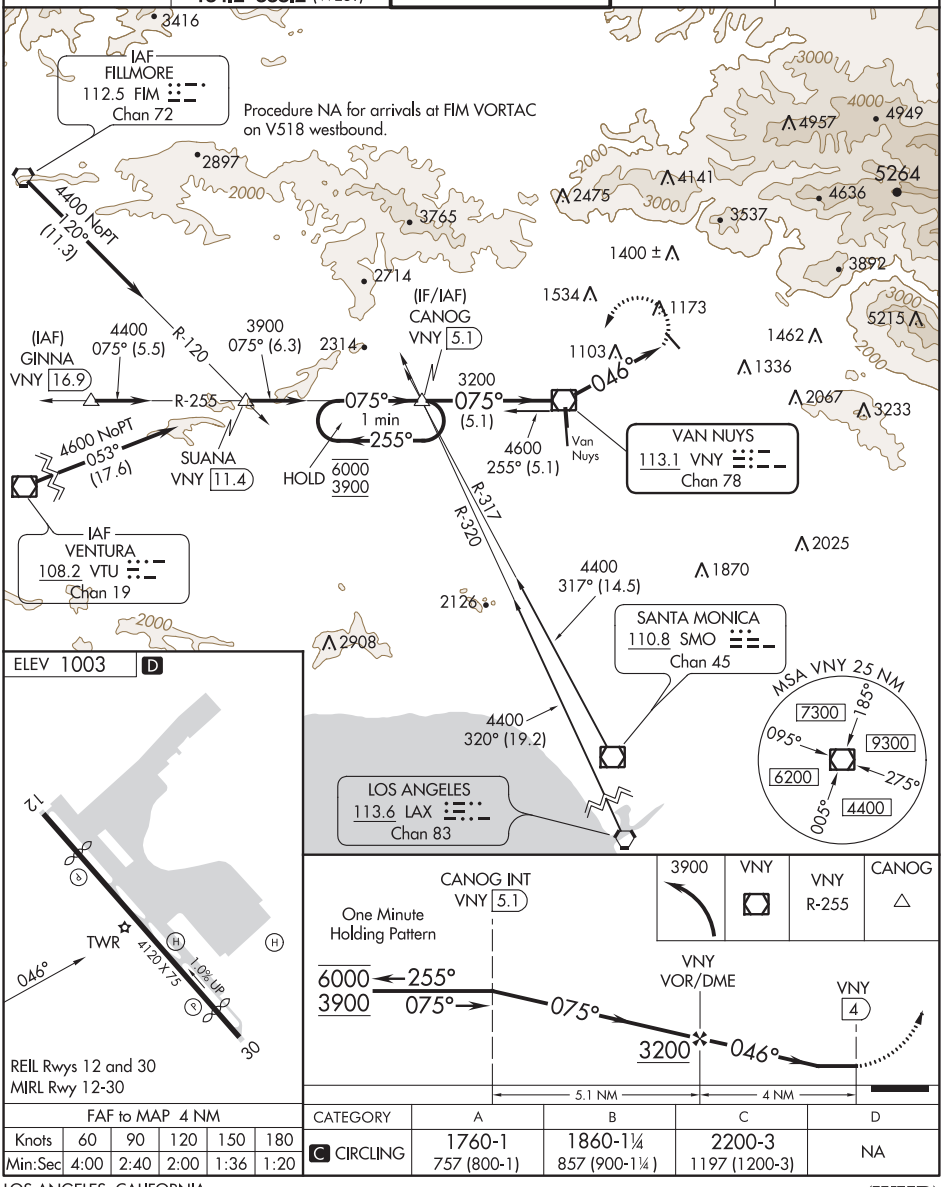
VOR/DME VNY	APP CRS	Rwy Idg	N/A
113.1	046°	TDZE	N/A
Chan 78		Apt Elev	1003

VOR-A
WHITEMAN (WHP)

When local altimeter setting not received, use Burbank altimeter setting. Procedure NA at night.

MISSED APPROACH: Climbing left turn to 3900 direct VNY VOR/DME then on VNY VOR/DME R-255 to CANOG INT/ 5.1 DME and hold.

ATIS	SOCAL APP CON	WHITEMAN TOWER ★	GND CON	UNICOM
132.1	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	135.0 (CTAF)	125.0	122.95



FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

CATEGORY	A	B	C	D
C CIRCLING	1760-1 757 (800-1)	1860-1¼ 857 (900-1¼)	2200-3 1197 (1200-3)	NA

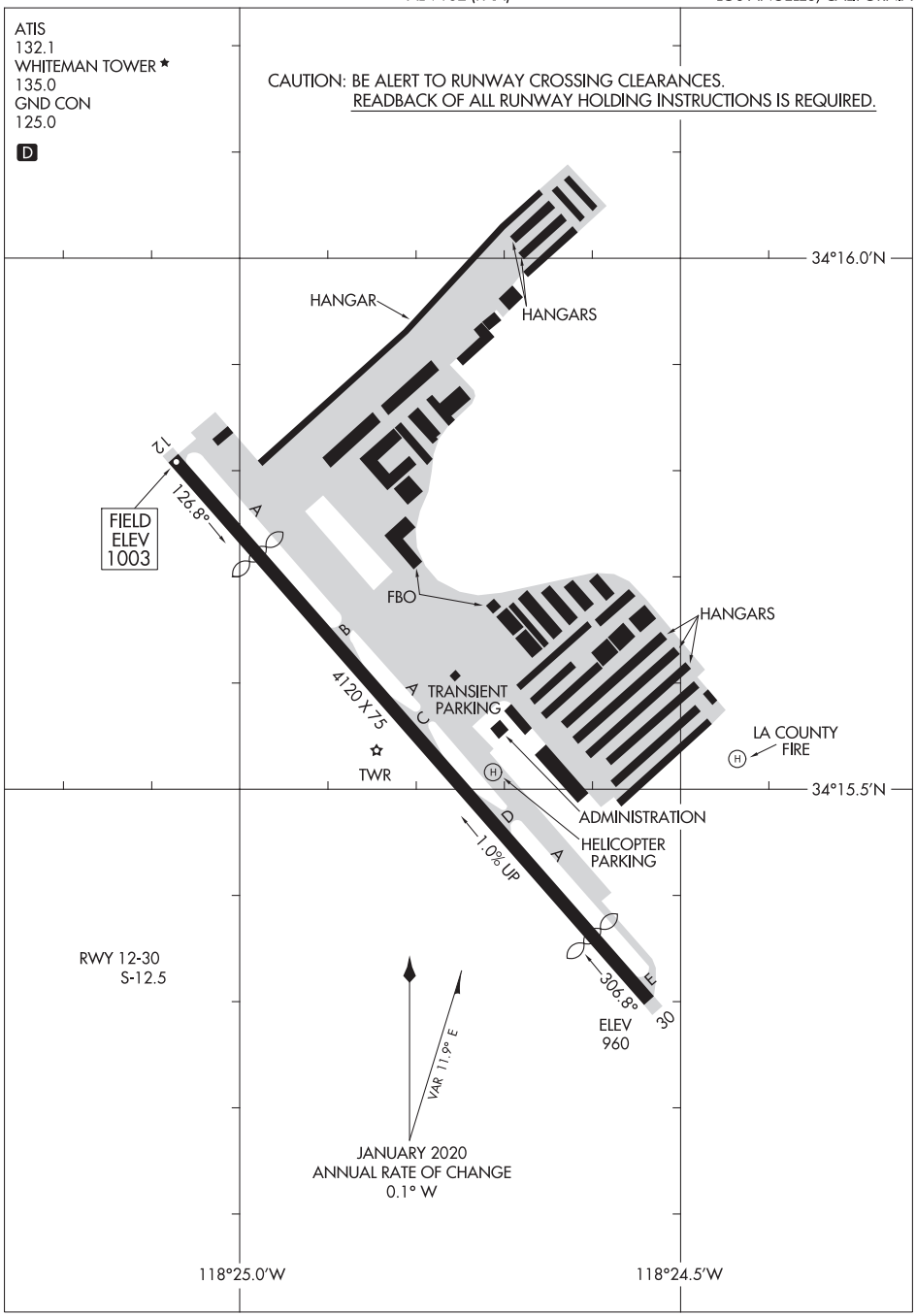
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-9132 (FAA)

WHITEMAN (WHP)
LOS ANGELES, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086

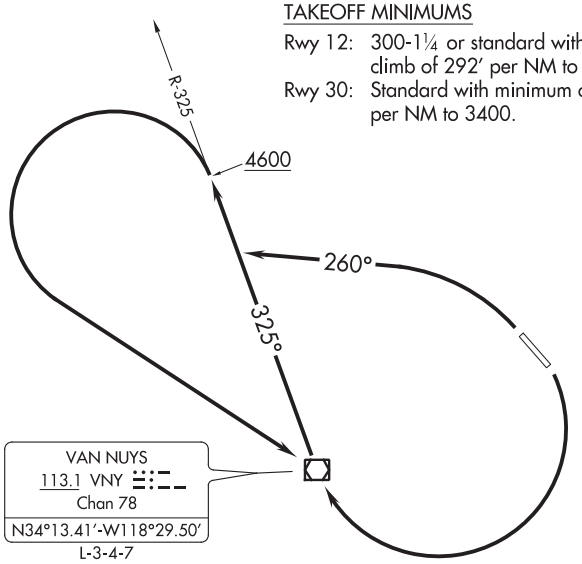
LOS ANGELES, CALIFORNIA
WHITEMAN (WHP)

WHITEMAN ONE DEPARTURE (OBSTACLE)

ATIS
132.1
GND CON
125.0
WHITEMAN TOWER ★
135.0 (CTAF)
SOCAL APP CON
120.4 360.6 (NORTH)
134.2 338.2 (WEST)
UNICOM
122.95

TAKEOFF MINIMUMS

Rwy 12: 300-1¼ or standard with minimum climb of 292′ per NM to 1300.
Rwy 30: Standard with minimum climb of 366′ per NM to 3400.



TAKEOFF OBSTACLE NOTES

Rwy 12: Pole beginning 34′ from DER, 276′ right of centerline, up to 20′ AGL/979′ MSL.
Building 180′ from DER, 9′ left of centerline, 22′ AGL/978′ MSL.
Tower, pole beginning 489′ from DER, 278′ right of centerline, up to 60′ AGL/1012′ MSL.
Stack 1 NM from DER, 1131′ left of centerline, 250′ AGL/1183′ MSL.
Rwy 30: Pole 29′ from DER, 277′ left of centerline, 20′ AGL/1024′ MSL.
Pole 152′ from DER, 282′ left of centerline, 20′ AGL/1025′ MSL.
Pole 262′ from DER, 282′ left of centerline, 20′ AGL/1027′ MSL.
Pole 372′ from DER, 283′ left of centerline, 20′ AGL/1028′ MSL.
Pole beginning 482′ from DER, 282′ left of centerline, up to 20′ AGL/1029′ MSL.
Pole 703′ from DER, 283′ left of centerline, 20′ AGL/1030′ MSL.
Pole 812′ from DER, 283′ left of centerline, 20′ AGL/1031′ MSL.
Pole beginning 922′ from DER, 283′ left of centerline, up to 20′ AGL/1032′ MSL.
Pole 1141′ from DER, 283′ left of centerline, 20′ AGL/1033′ MSL.
Tower 1700′ from DER, 511′ right of centerline, 49′ AGL/1075′ MSL.
Tower 3532′ from DER, 1118′ right of centerline, 54′ AGL/1098′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 12: Climbing right turn direct VNY VOR/DME, then on VNY R-325 to 4600, thence . . . .

TAKEOFF RUNWAY 30: Climbing left turn heading 260° and on VNY VOR/DME R-325 to 4600, thence . . . .

. . . . climbing left turn direct VNY VOR/DME to depart VNY VOR/DME at or above MEA for route of flight.

18312

RIVERSIDE, CALIFORNIA

ILS or LOC X RWY 32

LOC I-RIV	APCH CRS	Rwy ldg 13,302 / TDZE 1497 / Arpt Elev 1536
110.1	315°	

AL-348 [USAF]

MARCH ARB (KRIV)

*When ALS inop, increase CAT ABCDE RVR to 40 and vis to ¾mile.
**When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile and CAT CDE RVR to 60 and vis to 1 ⅛miles.

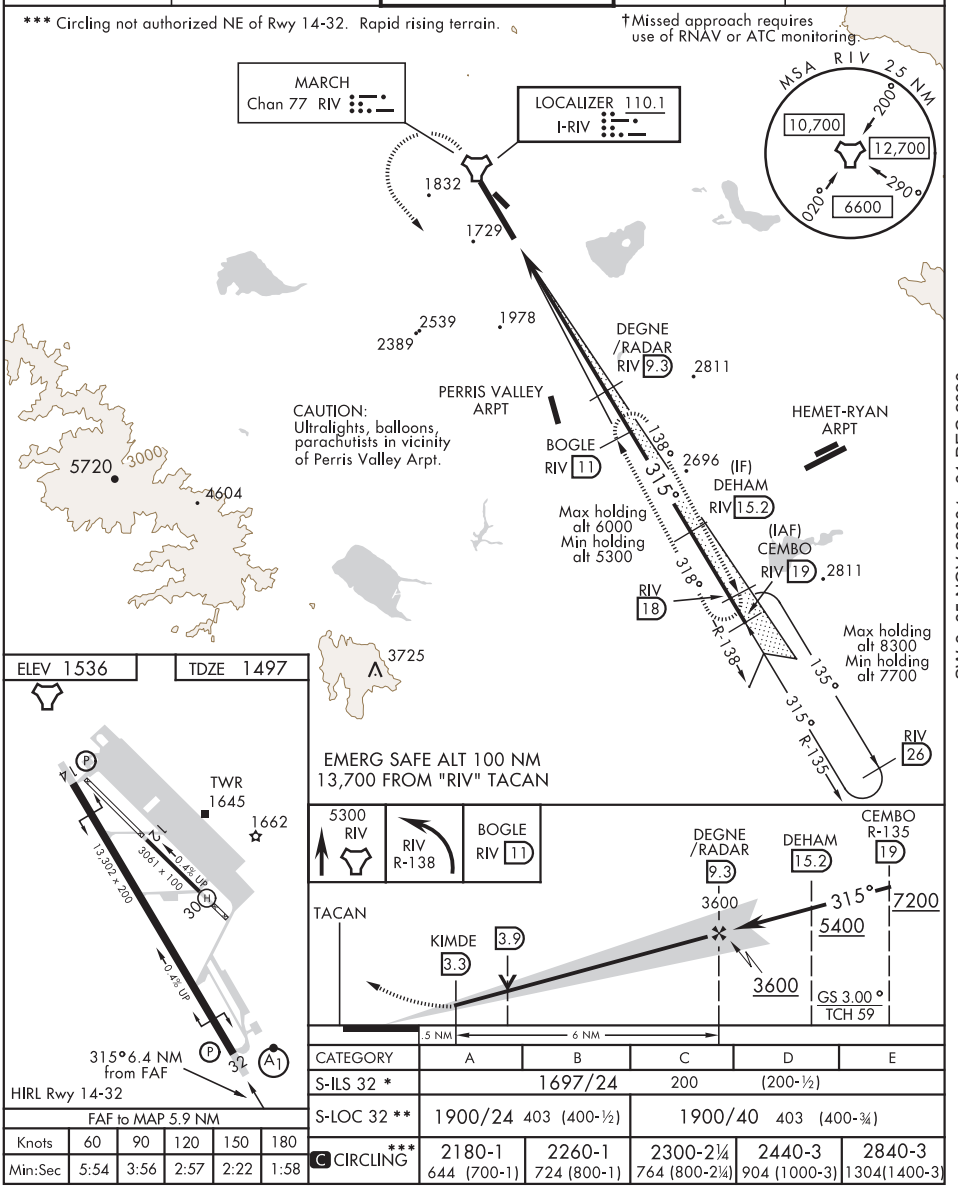
ALSF-1

† MISSED APPROACH: Climb to 5300 direct RIV TACAN, then turn left to intercept RIV R-138 direct BOGLE, continue climb in hold to 5300.

ATIS	SOCAL APP CON	MARCH TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8

*** Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

†Missed approach requires use of RNAV or ATC monitoring



FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

CATEGORY	A	B	C	D	E
S-ILS 32 *	1697/24		200	(200-½)	
S-LOC 32 **	1900/24 403 (400-½)		1900/40 403 (400-¾)		
C CIRCLING ***	2180-1 644 (700-1)	2260-1 724 (800-1)	2300-2¼ 764 (800-2¼)	2440-3 904 (1000-3)	2840-3 1304(1400-3)

RIVERSIDE, CALIFORNIA
Amdt 10 08NOV18

33°53'N-117°16'W

MARCH ARB (KRIV)

ILS or LOC X RWY 32

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RIVERSIDE, CALIFORNIA

ILS or LOC Y RWY 32

LOC I-RIV	APCH CRS	Rwy ldg 13,302 / TDZE 1497 / Arpt Elev 1536
110.1	315°	

AL-348 [USAF]

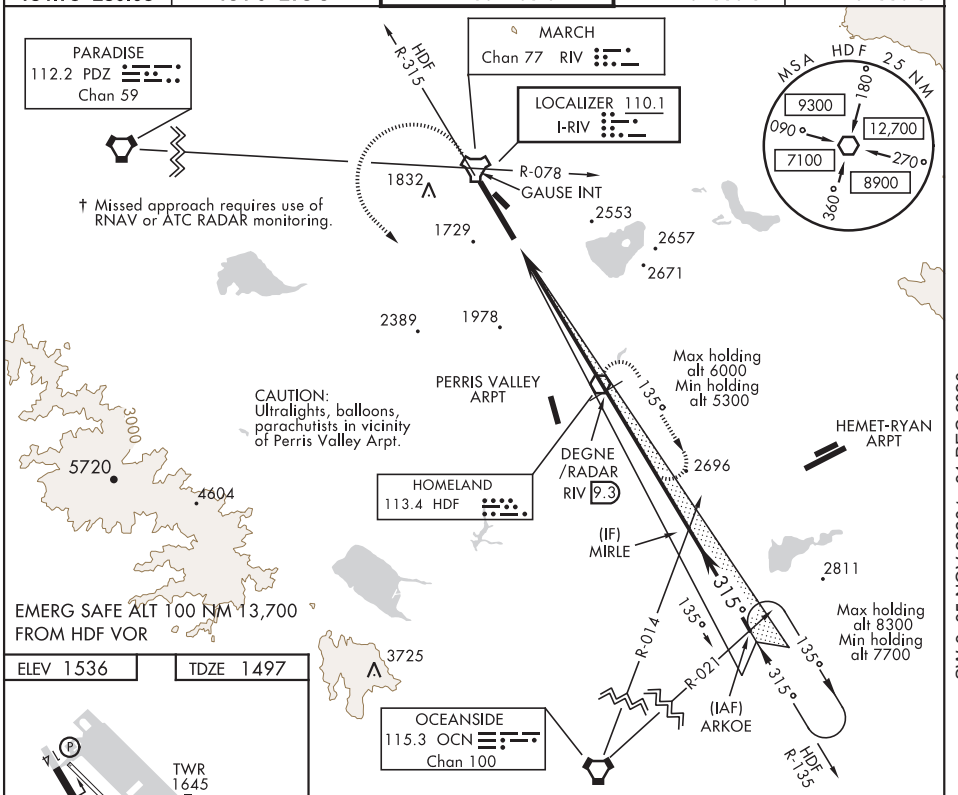
MARCH ARB (KRIV)

▼ * When ALS inop, increase CAT ABCDE RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1⅛ miles.
*** Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

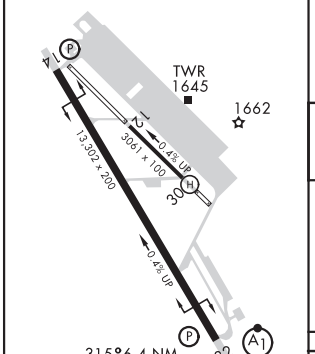
ALSF-1

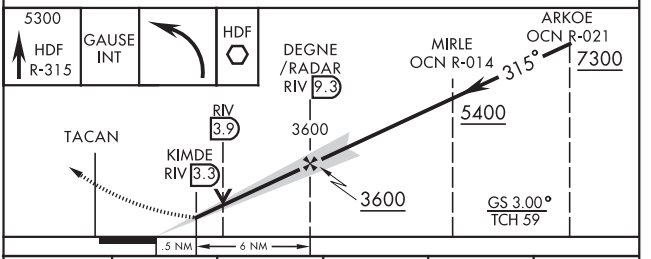
† MISSED APPROACH: Climb to 5300 on HDF VOR R-315 to GAUSE, turn left direct HDF continue climb in hold to 5300.

ATIS	SOCAL APP CON	MARCH TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8



ELEV 1536 | TDZE 1497





CATEGORY	A	B	C	D	E
S-ILS 32*	1697/24		200		(200-½)
S-LOC 32**	1900/24 403 (400-½)		1900/40 403 (400-¾)		
C CIRCLING***	2180-1 644 (700-1)	2260-1 724 (800-1)	2300-2¼ 764 (800-2¼)	2440-3 904 (1000-3)	2840-3 1304(1400-3)

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

RIVERSIDE, CALIFORNIA — 33°53'N-117°16'W — MARCH ARB (KRIV)

Amdt 9 23APR20

ILS or LOC Y RWY 32

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

19031

RIVERSIDE, CALIFORNIA

RNAV (GPS) RWY 14

WAAS	APCH CRS	Rwy ldg	13,302
CH 91363	135°	TDZE	1536
W14A		Arpt Elev	1536

AL-348 (USAF)

MARCH ARB (KRIV)

* Circling NA NE of Rwy 14-32. Rapid rising terrain.

MISSED APPROACH: Climb to 2300 then climbing right turn direct ZALUR and hold, continue climb in hold to 7700.

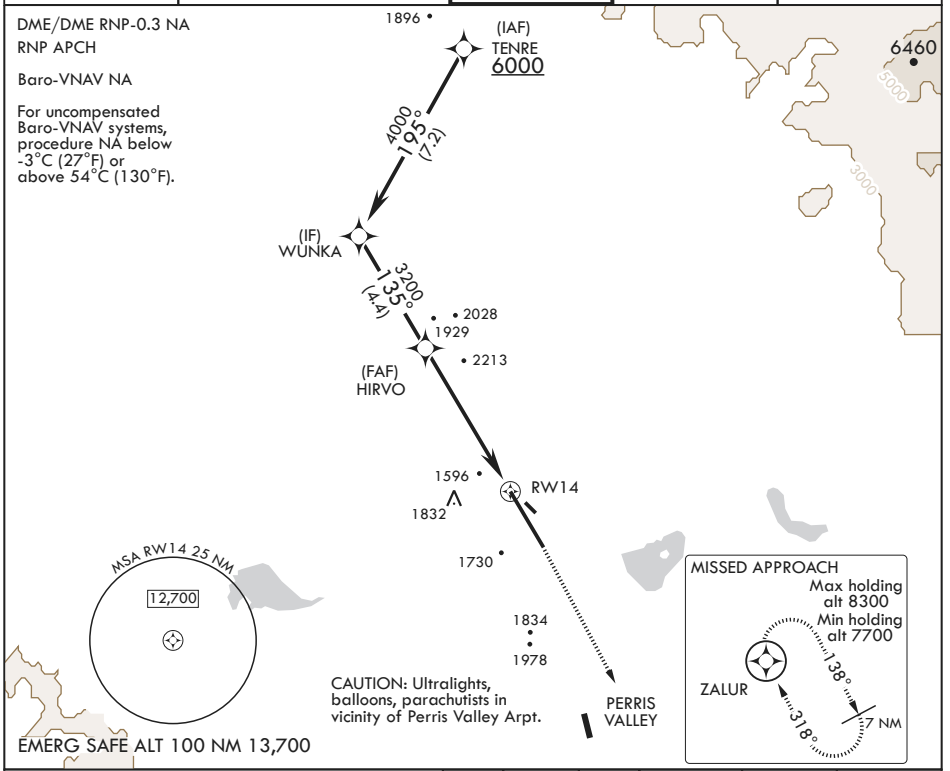
ATIS	SOCAL APP CON/DEP CON	TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8

DME/DME RNP-0.3 NA

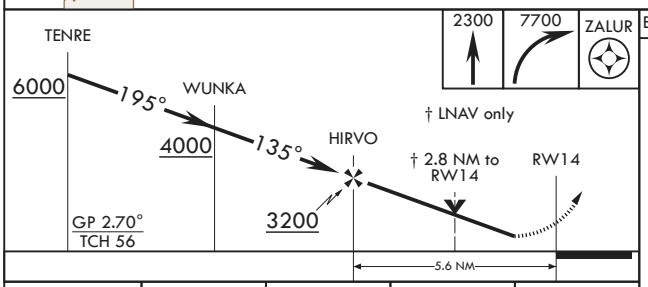
RNP APCH

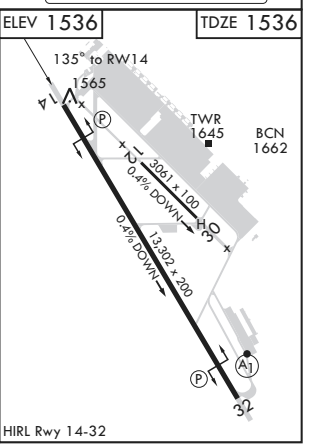
Baro-VNAV NA

For uncompensated Baro-VNAV systems, procedure NA below -3°C (27°F) or above 54°C (130°F).



EMERG SAFE ALT 100 NM 13,700





CATEGORY	A	B	C	D
LPV DA	1756/40		220	(300-¾)
LNAV/VNAV DA	2080-1⅝		544	(600-1⅝)
LNAV MDA	2380/55 844 (900-1)	2380-1¼ 844 (900-1¼)	2380-2½ 844	(900-2½)
C CIRCLING*	2380-1¼ 844 (900-1¼)		2380-2½ 844 (900-2½)	2440-3 904 (1000-3)

RIVERSIDE, CALIFORNIA

33°53'N - 117°16'W

MARCH ARB (KRIV)

Amdt 7 31JAN19

TERPS

RNAV (GPS) RWY 14

SW-3, 05 NOV 2020 to 31 DEC 2020

RIVERSIDE, CALIFORNIA

RNAV (GPS) RWY 32

MARCH ARB (KRIV)

WAAS	APCH CRS	Rwy ldg	13,302
CH 91364	315°	TDZE	1497
W32A		Arpt Elev	1536

AL-348 (USAF)

* When ALS inop increase CAT ABCD RVR to 40, vis to 3/4 mile.
** When ALS inop increase CAT ABCD RVR to 60, vis to 1 1/8 miles.
*** When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CD vis to 1 3/8 miles.

ALSF-1

MISSED APPROACH: Climb to 2100 then climbing left turn to 5500 direct NOKDE and hold, continue climb in hold to 5500.

ATIS	SOCAL APP CON/DEP CON	TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8

****Circling NA NE of Rwy 14-32. Rapid rising terrain.

DME/DME RNP-0.3 NA

RNP APCH

For uncompensated Baro-VNAV systems, Procedure NA below -18°C (0°F) or above 54°C (130°F).

5 NM
086°
266°
NOKDE
Max holding alt 6100
Min holding alt 5500

1832
RW32
1978
1474
(FAF)
LOGTE
PERRIS VALLEY
315°
3600
(6)
2546
MSA RW32 25 NM
12,700
HEMET RYAN
(IF)
DEHAM
4500
253°
(6.9)
(IAF)
GUMSE
5000
2661
2270
4500
017°
(6.6)
(IAF)
GOOBR
5000

CAUTION: Ultralights, balloons, parachutists in vicinity of Perris Valley Arpt.

3000
4000
5000
5653

EMERG SAFE ALT 100 NM 13,700

2100 | 5500 | NOKDE

† LNAV only
† 1.3 NM to RW32
RW32
LOGTE
315°
DEHAM
4500
3600
GP 3.00°
TCH 59
6.4 NM

ELEV 1536 | TDZE 1497

TWR 1645
BCN 1642
3061 x 100
0.4% UP
13,302 x 200
0.4% UP
32
1730
HIRL Rwy 14-32
315° to RW32

CATEGORY	A	B	C	D
LPV DA*	1697/24	200 (200-½)		
LNAV/VNAV DA**	1909/40	412 (400-¾)		
LNAV MDA***	1960/24	463 (500-½)	1960/50	463 (500-1)
C CIRCLING****	2180-1	2260-1	2300-2¼	2440-3
	664 (700-1)	724 (800-1)	764 (800-2¼)	904 (1000-3)

RIVERSIDE, CALIFORNIA — 33°53'N - 117°16'W — MARCH ARB (KRIV)

Amdt 6 31JAN19

RNAV (GPS) RWY 32

SW-3, 05 NOV 2020 to 31 DEC 2020

19115

RIVERSIDE, CALIFORNIA

RNAV (GPS) A

APCH CRS	Rwy Idg	N/A
186°	TDZE	N/A
	Arpt Elev	1536

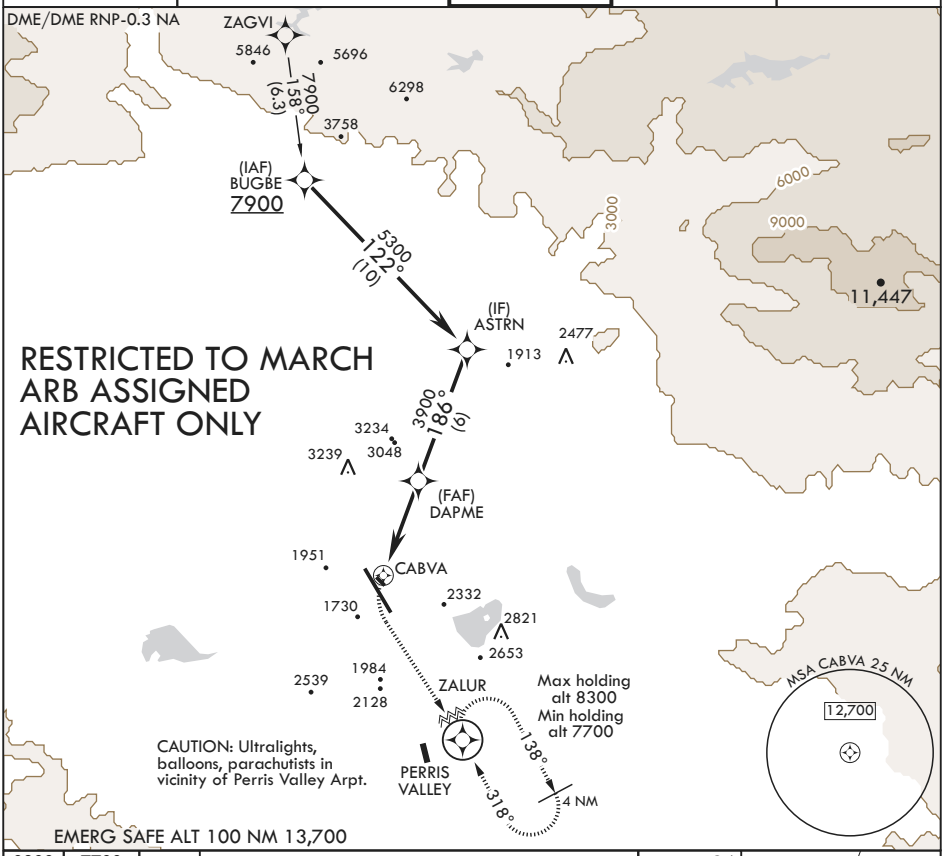
AL-348 (USAF)

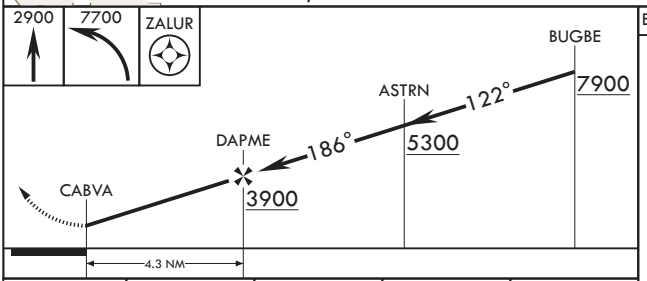
MARCH ARB (KRIV)

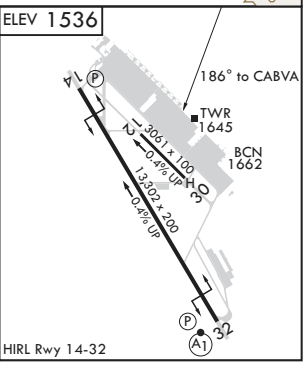
* Circling NA NE of Rwy 14-32 due to rapid rising terrain. Do not commence circling until crossing Rwy 14-32 centerline.

MISSED APPROACH: Climb to 2900 then climbing left turn to 7700 direct ZALUR and hold, continue climb in hold to 7700.

ATIS	SOCAL APP CON/DEP CON	TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8







CATEGORY	A	B	C	D
C CIRCLING*	2820-1¼ 1284 (1300-1¼)	2820-1½ 1284 (1300-1½)	2820-3 1284 (1300-3)	

RIVERSIDE, CALIFORNIA

33°53'N - 117°16'W

MARCH ARB (KRIV)

Amdt 2 02FEB17

RNAV (GPS) A

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

RIVERSIDE, CALIFORNIA

VOR Y RWY 32

VOR HDF	APCH CRS	Rwy ldg 13,302 / TDZE 1497 / Arpt Elev 1536
113.4	315°	AL-348 [USAF]

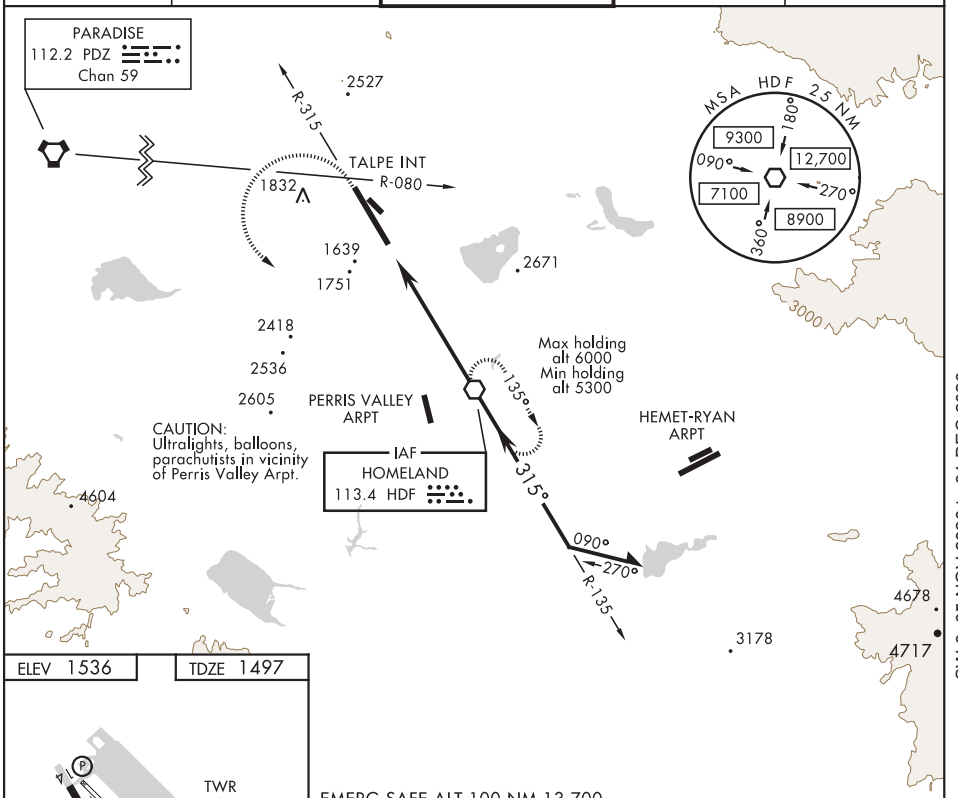
MARCH ARB (KRIV)

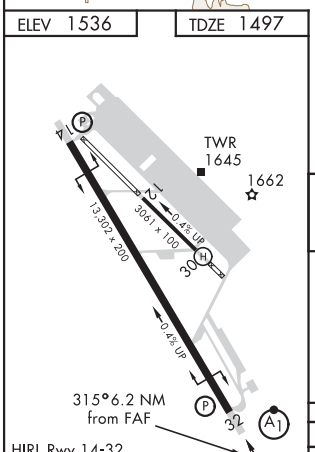
*When ALS inop, increase CAT AB RVR to 60 and vis to 1⅛ mile, CAT CDE vis to 1⅝ miles.
**Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

ALSF-1

MISSED APPROACH: Climb to 5300 on HDF VOR R-315 to TALPE, then turn left direct HDF continue climb-in-hold to 5300.

ATIS	SOCAL APP CON	MARCH TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8



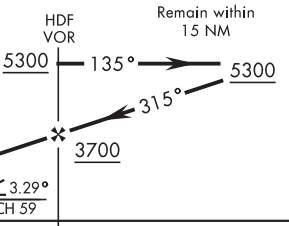


FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

EMERG SAFE ALT 100 NM 13,700

5300 HDF R-315	TALPE INT		HDF

VGSI and descent angles not coincident.



CATEGORY	A	B	C	D	E
S-32*	2040/40 543 (600-¾)		2040/60	543	(600-1⅛)
C CIRCLING**	2180-1⅛ 644 (700-1⅛)	2260-1⅛ 724 (800-1⅛)	2300-2¼ 764 (800-2¼)	2440-3 904 (1000-3)	2840-3 1304(1400-3)

RIVERSIDE, CALIFORNIA — 33°53'N-117°16'W — MARCH ARB (KRIV)

Amdt 15 23APR20

VOR Y RWY 32

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

17117

RIVERSIDE, CALIFORNIA

TACAN Y RWY 14

TACAN	APCH CRS	Rwy Idg	TDZE	Arpt Elev
RIV Chan 77	106°	13,302	1536	1536

AL-348 [USAF]

MARCH ARB (KRIV)

* Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

MISSED APPROACH: Climb out RIV TACAN R-138 direct BOGLE, continue to climb in hold to 5300.

ATIS	SOCAL APP CON	MARCH TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8

(IAF) SAKQU RIV 11 2365

R-286

106°

JEGEX RIV 5

MARCH Chan 77 RIV

CAUTION: Do not land on closed rwy in close proximity to Rwy 14 threshold.

1667

1832

1729

2389

1978

R-138

PERRIS VALLEY ARPT

CAUTION: Ultralights, balloons, parachutists in vicinity of Perris Valley Arpt.

BOGLE RIV 11

2801

Max holding alt 6000 Min holding alt 5300

138°

318°

HEMET-RYAN ARPT

RIV 18

5720

4604

MSA RIV 25 NM

10,700

200°

12,700

290°

020°

6600

3000

6000

9324

EMERG SAFE ALT 100 NM 13,700

ELEV 1536 TDZE 1536

106° to TACAN

TWR 1645

1662

13,302 × 200 0.4% DOWN

3061 × 100 0.4% UP

HIRL Rwy 14-32

SAKQU R-286 11

4500

106°

JEGEX 5

3100

2.58°

TCH 56

1.9

MEKIE 1

TACAN

4.0 NM 1 NM .5 NM

5300 RIV R-138

BOGLE RIV 11

CATEGORY	A	B	C	D	E
S-14	2260-1⅞ 724 (800-1⅞)		2260-2 724 (800-2)		
C CIRCLING*	2260-1⅞ 724 (800-1⅞)	2260-1⅞ 724 (800-1⅞)	2300-2¼ 764 (800-2¼)	2440-3 904 (1000-3)	2840-3 1304(1400-3)

RIVERSIDE, CALIFORNIA

TACAN Y RWY 32

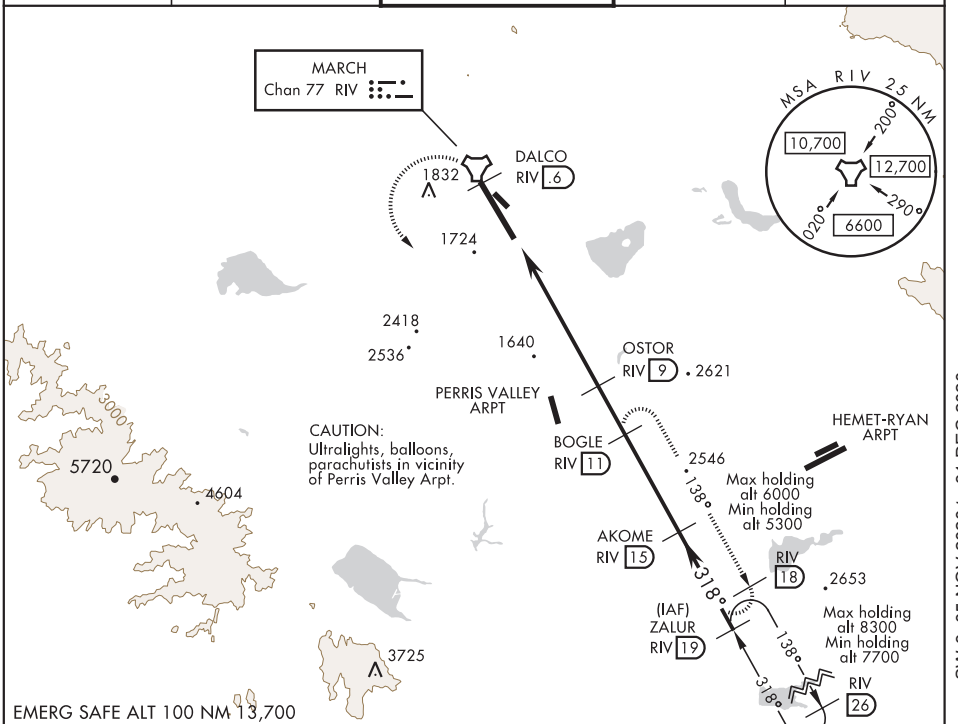
TACAN	APCH CRS	Rwy ldg / TDZE / Arpt Elev	AL-348 [USAF]	MARCH ARB (KRIV)
RIV Chan 77	318°	13,302 / 1497 / 1536		

▼ *When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1⅝ miles.
**Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

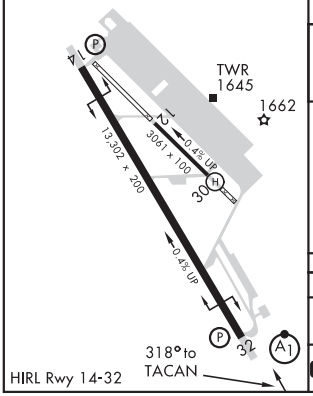
ALSF-1 (A1)

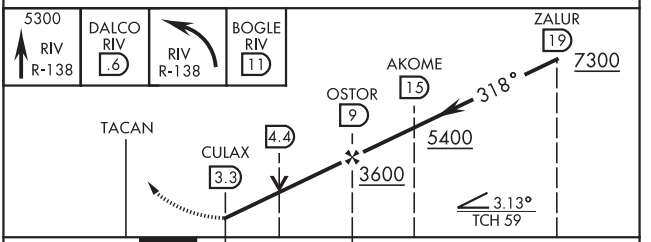
MISSED APPROACH: Climb to 5300 on RIV TACAN R-138 to DALCO, then turn left to intercept RIV R-138 direct BOGLE, continue climb in hold to 5300.

ATIS	SOCAL APP CON	MARCH TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8



ELEV 1536 | TDZE 1497





CATEGORY	A	B	C	D	E
S-32*	2040/24 543 (600-½)		2040/60 543 (600-1⅛)		
C CIRCLING**	2180-1 644 (700-1)	2260-1 724 (800-1)	2300-2¼ 764 (800-2¼)	2440-3 904 (1000-3)	2840-3 1304(1400-3)

RIVERSIDE, CALIFORNIA
Amdt 14 02FEB17

33°53'N-117°16'W

MARCH ARB (KRIV)

TACAN Y RWY 32

SW-3, 05 NOV 2020 to 31 DEC 2020

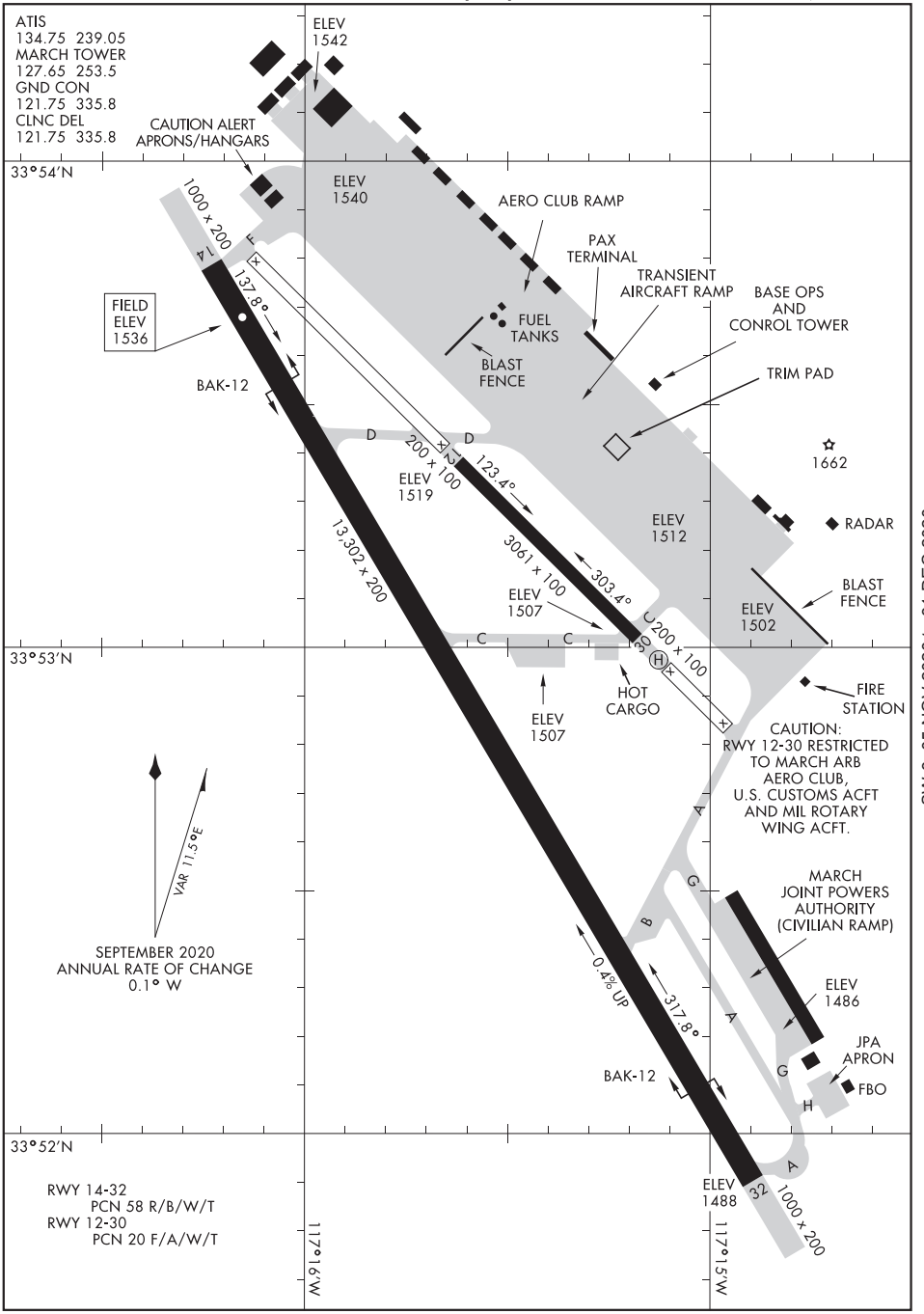
20254

AIRPORT DIAGRAM

MARCH ARB (KRIV)

AFD-348 [USAF]

RIVERSIDE, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

RIVERSIDE, CALIFORNIA

MARCH ARB (KRIV)

SKYES-FOUR DEPARTURE (SKYES 4•SKYES)

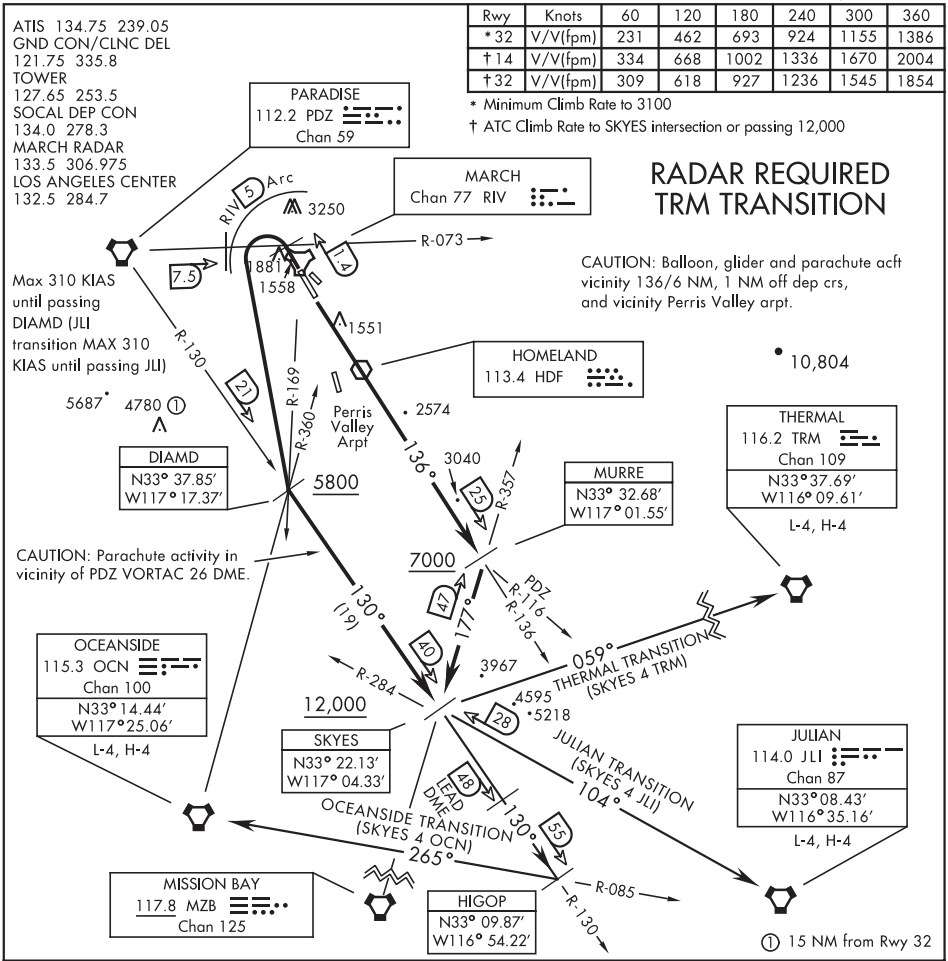
SHL-348 [USAF]

RIVERSIDE, CALIFORNIA

Rwy	Knots	60	120	180	240	300	360
*32	V/V(fpm)	231	462	693	924	1155	1386
†14	V/V(fpm)	334	668	1002	1336	1670	2004
†32	V/V(fpm)	309	618	927	1236	1545	1854

* Minimum Climb Rate to 3100

† ATC Climb Rate to SKYES intersection or passing 12,000



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Climb via RIV TACAN R-136 or climb direct HDF VOR, then via HDF R-136 to MURRE, intercept MZB VORTAC R-357 to SKYES, cross MURRE at or above 7000, and SKYES at or above 12,000. Thence via transition or assigned route.

TAKE-OFF RWY 32: Climb on track 315°, then turn left crossing PDZ VORTAC R-073/RIV TACAN 1.4 DME direct DIAMD, proceed no closer than 7.5 DME PDZ. Remain within 5 DME RIV. Cross DIAMD at or above 5800. Intercept PDZ R-130 to SKYES, cross SKYES at or above 12,000. Thence via transition or assigned route.

JULIAN TRANSITION (SKYES 4 JLI): From over SKYES via JLI VORTAC R-284 direct JLI. MAX 310 KIAS until passing JULIAN VORTAC.

OCEANSIDE TRANSITION (SKYES 4 OCN): From over SKYES via PDZ VORTAC R-130 direct HIGOP, intercept OCN VORTAC R-085 direct OCN.

THERMAL TRANSITION (SKYES 4 TRM): From over SKYES track 059° to TRM. (Radar required)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA

ILS or LOC/DME RWY 24R

LOC I-NKX	APCH CRS		24L	24R
111.15	243°	Rwy ldg	8001	12,000
		TDZE	477	475
		Arpt Elev	477	477

AL-903 [USN] MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

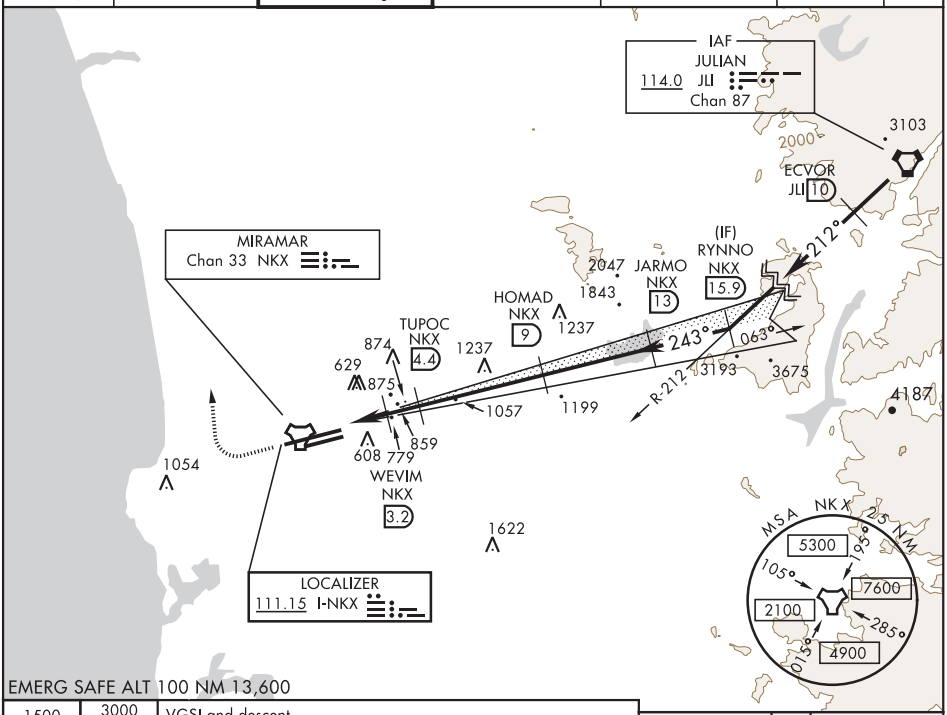
RADAR required.

* When ALS inop, increase CAT ABCDE vis to ¾ mile.
** When ALS inop, increase CAT AB vis to 1 mile, CAT CDE vis to 1⅜ miles.
*** CAT E circling not authorized S of Rwy 6R-24L.

ALSF-1

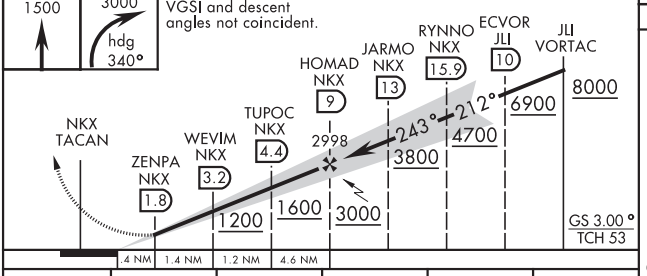
MISSED APPROACH: Climb to 1500, then climbing right turn to 3000 via heading 340°. Expect radar vectors.

ATIS ★	SOCAL APP CON	FOSS TOWER ★	GND CON	CLNC DEL	LA CENTER	ASR/PAR
133.475 352.0	132.2 269.1	135.2 298.925 L	128.625 307.325	125.975 254.325	291.7	



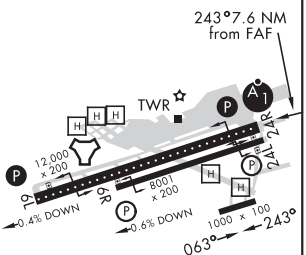
1500 | 3000 hdg 340°

VGSI and descent angles not coincident.



ELEV 477

TDZE 24L 477
TDZE 24R 475



CATEGORY	A	B	C	D	E
S-ILS 24R *	675 - ½		200	(200-½)	
S-LOC/DME 24R **	920-½	445 (500-½)	920-⅞	445 (500-⅞)	
SIDESTEP 24L	920-1	443 (500-1)	920-1⅜	443 (500-1⅜)	
CIRCLING ***	940-1 463 (500-1)	960-1 483 (500-1)	960-1½ 483 (500-1½)	1180-2¼ 703 (800-2¼)	1360-3 883 (900-3)

HIRL Rwy 6L-24R L
HIRL Rwy 6R-24L

SAN DIEGO, CALIFORNIA 32°52'N-117°09'W MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

Amdt 3 13SEP18

ILS or LOC/DME RWY 24R

SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA

RNAV (GPS) RWY 24L

WAAS	APCH CRS	Rwy ldg	8001
CH 54028	243°	TDZE	477
W24A		Arpt Elev	477

AL-903 [USN] MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

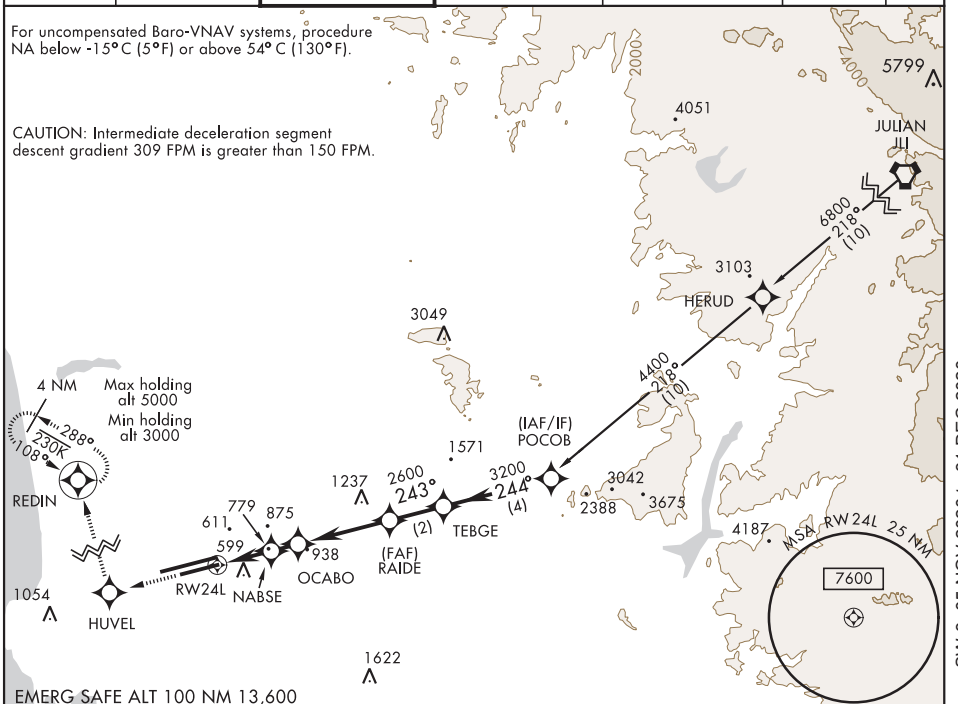
DME/DME RNP-0.3 NA.

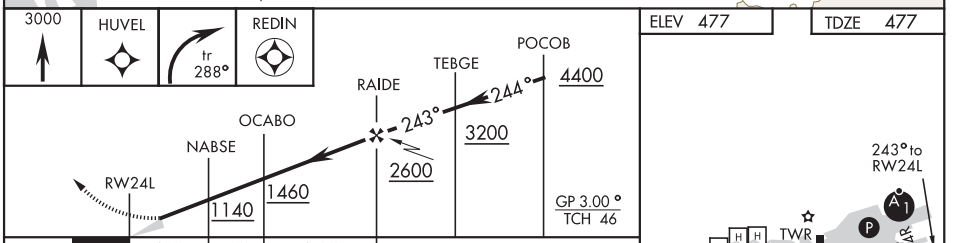
MISSED APPROACH: Climb to 3000 direct HUVEL, 288° track to REDIN and hold.

ATIS ★	SOCAL APP CON	FOSS TOWER ★	GND CON	CLNC DEL	LA CENTER	ASR/PAR
133.475 352.0	132.2 269.1	135.2 298.925 L	128.625 307.325	125.975 254.325	291.7	

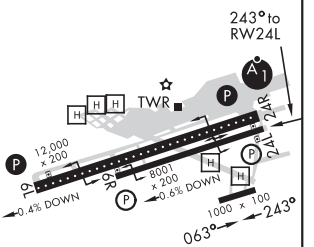
For uncompensated Baro-VNAV systems, procedure NA below -15°C (5°F) or above 54° C (130°F).

CAUTION: Intermediate deceleration segment descent gradient 309 FPM is greater than 150 FPM.





ELEV 477 TDZE 477



CATEGORY	A	B	C	D
LPV DA	677-¾ 200 (200-¾)			
LNAV/VNAV DA	733-⅞ 256 (300-⅞)	744-⅞ 267 (300-⅞)	752-⅞ 275 (300-⅞)	763-⅞ 286 (300-⅞)
LNAV MDA	1040-1 563 (600-1)		1040-1⅝ 563 (600-1⅝)	
CIRCLING	1040-1 563 (600-1)		1040-1⅝ 563 (600-1⅝)	1180-2¼ 703 (800-2¼)

HIRL Rwy 6L-24R L
HIRL Rwy 6R-24L

SAN DIEGO, CALIFORNIA 32°52'N-117°09'W MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

Amdt 3 13SEP18

RNAV (GPS) RWY 24L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA

RNAV (GPS) RWY 24R

WAAS	APCH CRS	Rwy ldg 12,000
CH 61450	243°	TDZE 475
W24B		Arpt Elev 477

AL-903 [USN] MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

DME/DME RNP-0.3 NA.

▼ *When ALS inop, increase CAT ABCD vis to ¾ mile.
**When ALS inop, increase CAT ABCD vis to ¾ mile.
***When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 2 miles.

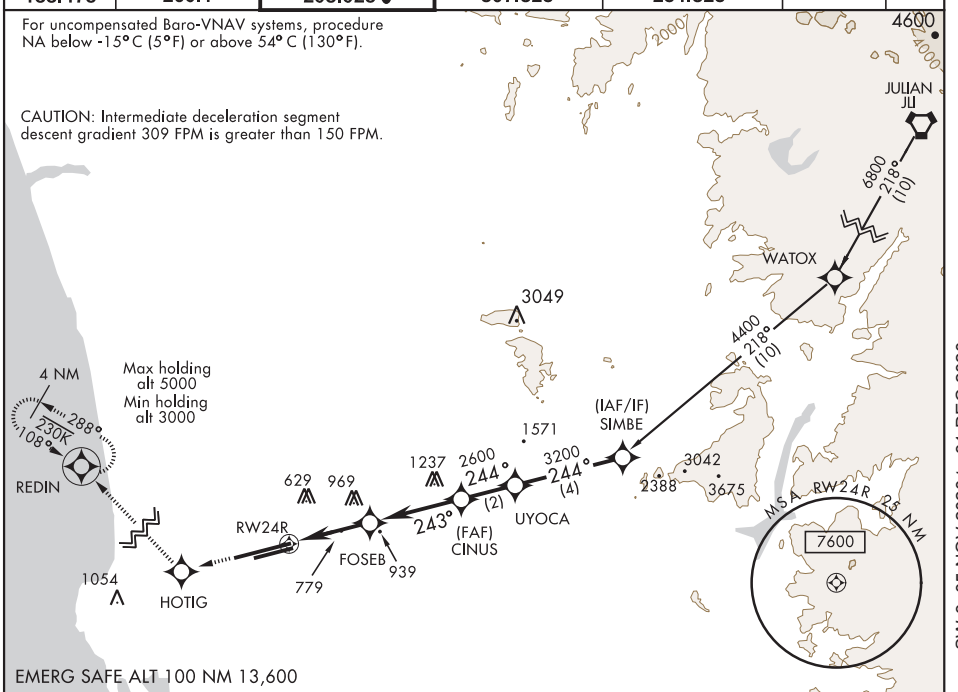
ALSF-1

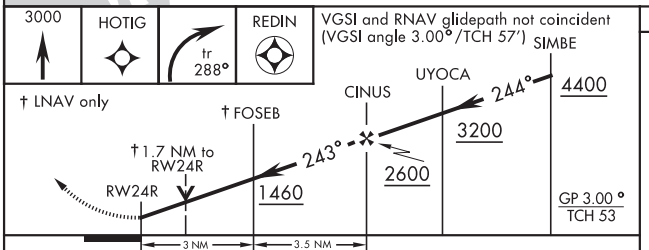
MISSED APPROACH: Climb to 3000 direct HOTIG, 288° track to REDIN and hold.

ATIS ★	SOCAL APP CON	FOSS TOWER ★	GND CON	CLNC DEL	LA CENTER	ASR/PAR
352.0 133.475	132.2 269.1	135.2 298.925 L	128.625 307.325	125.975 254.325	291.7	

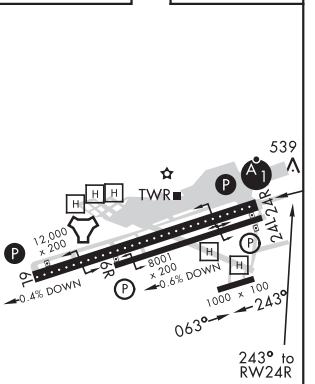
For uncompensated Baro-VNAV systems, procedure NA below -15°C (5°F) or above 54°C (130°F).

CAUTION: Intermediate deceleration segment descent gradient 309 FPM is greater than 150 FPM.





ELEV 477 TDZE 475



CATEGORY	A	B	C	D
LPV DA *	675-½ 200 (200-½)			
LNAV/VNAV DA **	725-½ 250 (300-½)			
LNAV MDA ***	1080-½ 605 (700-½)		1080-1⅜ 605 (700-1⅜)	
CIRCLING	1080-1 603 (700-1)		1080-1¾ 603 (700-1¾)	1180-2¼ 703 (800-2¼)

HIRL Rwy 6L-24R L
HIRL Rwy 6R-24L

SAN DIEGO, CALIFORNIA 32°52'N-117°09'W MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

Amdt 3 13SEP18

RNAV (GPS) RWY 24R

SW-3, 05 NOV 2020 to 31 DEC 2020

TACAN RWY 24R

TACAN NKX Chan 33	APCH CRS 247°	Rwy ldg 24R 12,000 24L 8001 TDZE 24R 475 24L 477 Arpt Elev 477	AL-903 [USN]

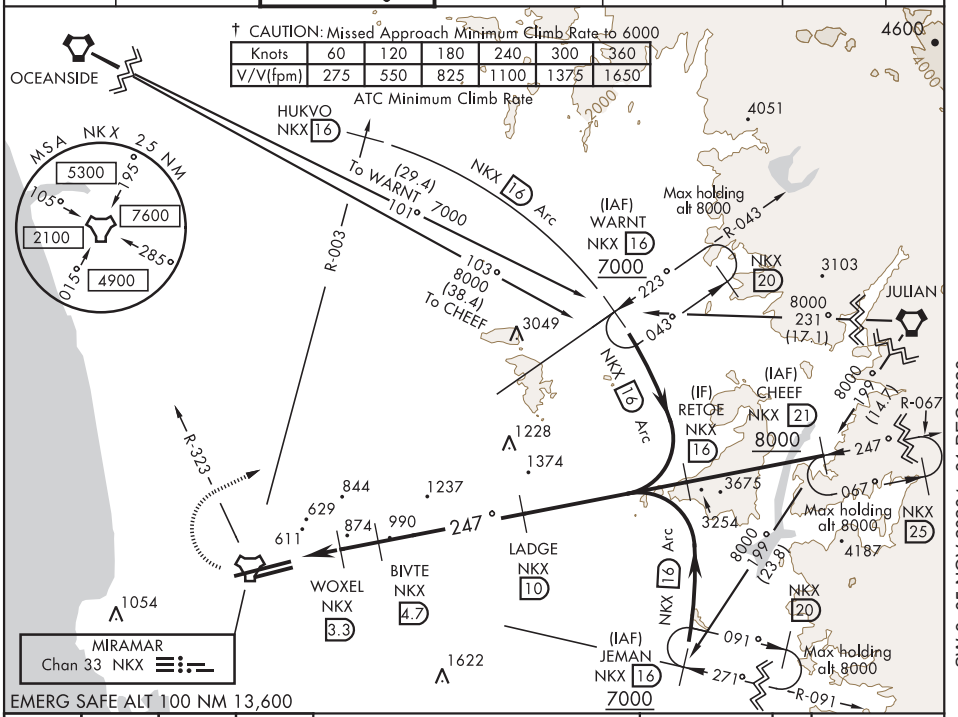
MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

* When ALS inop, increase CAT AB vis to 1 mile, CAT CD to 1⅞ miles.

ALSF-1

† MISSED APPROACH: Climb to 1500, then climbing right turn to 7000 via NKX TACAN R-003 to HUKVO. Arc NE of NKX via the 16 mile arc to WARNT and hold. Cross NKX R-323 at 3000 mandatory, cross HUKVO at 6000 mandatory.

ATIS ★	SOCAL APP CON	FOSS TOWER ★	GND CON	CLNC DEL	LA CENTER	ASR/PAR
133.475 352.0	132.2 269.1	135.2 298.925 (L)	128.625 307.325	125.975 254.325	291.7	



† CAUTION: Missed Approach Minimum Climb Rate to 6000

Knots	60	120	180	240	300	360
V/V(fpm)	275	550	825	1100	1375	1650

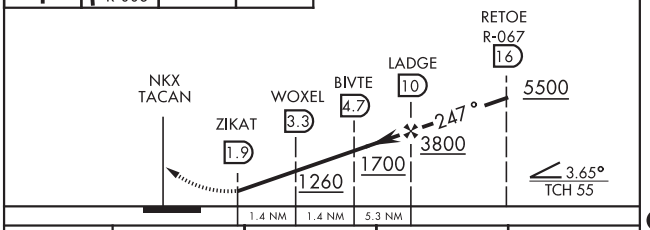
ATC Minimum Climb Rate

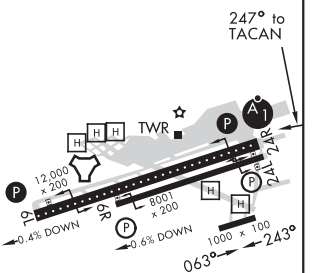
1500	7000 NKX R-003	HUKVO NKX 16	Arc NE 16

VGSI and descent angles not coincident.

ELEV 477

TDZE 24R 475
TDZE 24L 477





CATEGORY	A	B	C	D
S-24R *	1140- ½ 665 (700-½)		1140-1½ 665 (700-1½)	
SIDE-STEP 24L	1140-1 663 (700-1)		1140-1⅞ 663 (700-1⅞)	
CIRCLING	1140-1 663 (700-1)		1140-1⅞ 663 (700-1⅞)	1180-2¼ 703 (800-2¼)

HIRL Rwy 6L-24R (L)
HIRL Rwy 6R-24L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

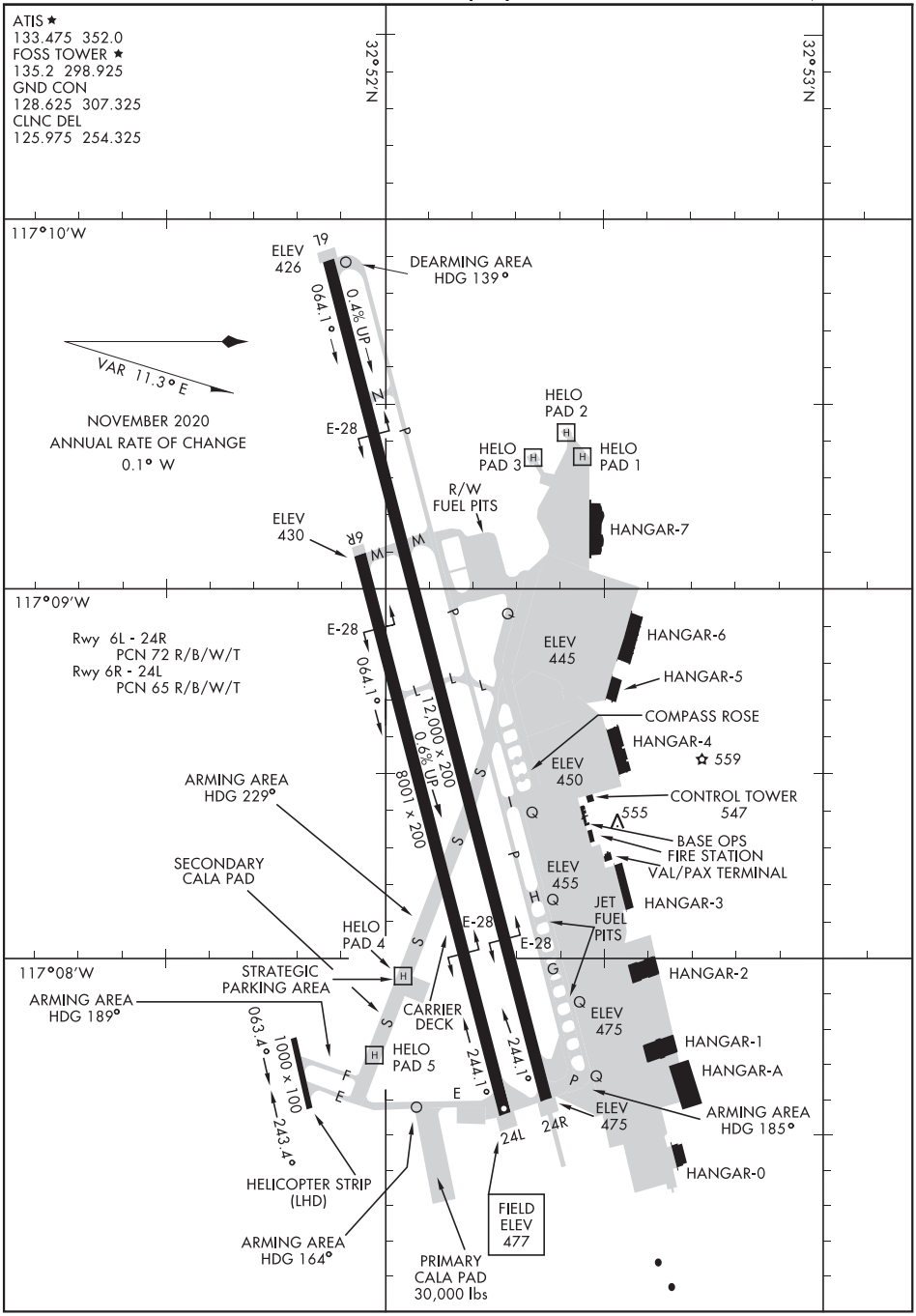
20310

MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

AIRPORT DIAGRAM

AFD-903 [USN]

SAN DIEGO, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

SAN DIEGO, CALIFORNIA

MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

LAKEE-THREE DEPARTURE (LAKEE3 • LAKEE)

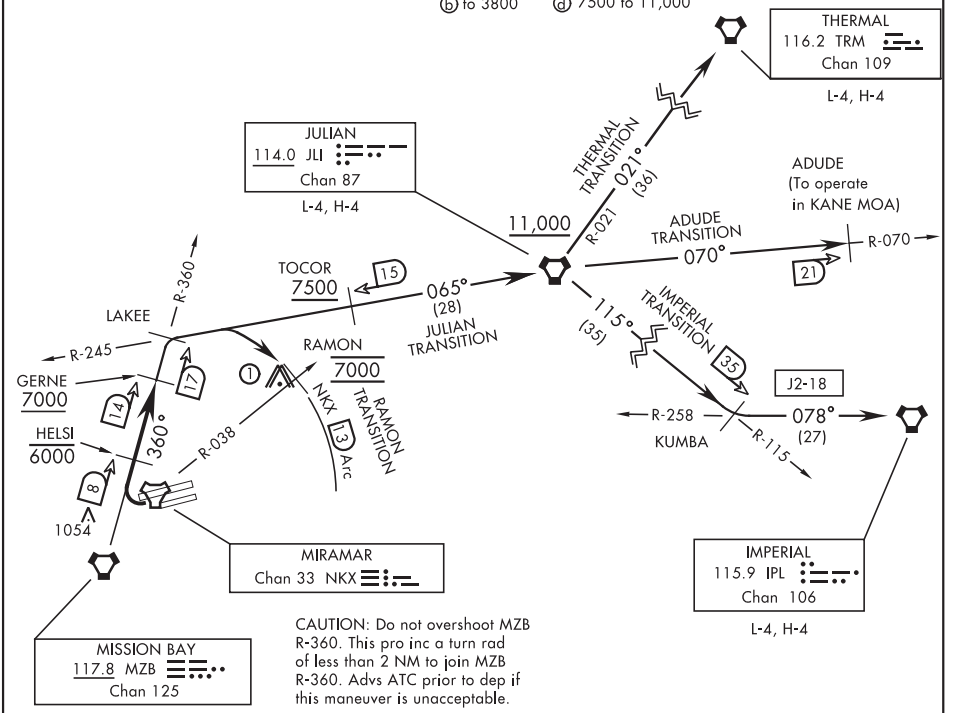
SAN DIEGO, CALIFORNIA

ATIS ★ 133.475 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
FOSS TOWER ★
135.2 298.925
SOCAL DEP CON
132.2 269.1 E

SHL-903 [USN]

Rwy	Knots	60	120	180	240	300	360
* 24L/R ⓐ	V/V(fpm)	260	520	780	1040	1300	1560
** 24L/R ⓑ	V/V(fpm)	280	560	840	1120	1400	1680
† 24L/R ⓒ	V/V(fpm)	678	1356	2034	2712	3390	4068
† 24L/R ⓓ	V/V(fpm)	235	470	705	940	1175	1410

* Military Minimum ** Civil Minimum † ATC Climb Rate
ⓐ to 3600 ⓒ to 7000
ⓑ to 3800 ⓓ 7500 to 11,000



① 3018' Twr 12.5 NM from DER.

EMERG SAFE ALT 100 NM 13,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Turn right to intercept and proceed via MZB VORTAC R-360 to LAKEE INT. Cross HELSI at or below 6000. Cross GERNE at or above 7000. Thence...

ADUDE TRANSITION (LAKEE3•ADUDE): Via JLI VORTAC R-245 to JLI. Then via JLI R-070 to ADUDE. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000. (To operate in KANE MOA.)

IMPERIAL TRANSITION (LAKEE3•IPL): Via JLI VORTAC R-245 to JLI. Then via JLI R-115 to KUMBA INT, then via IPL VORTAC R-258 to IPL. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000.

(Continued on next page)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

JULIAN TRANSITION (LAKEE3 • JLI): Via JLI VORTAC R-245 to JLI. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000.

RAMON TRANSITION (LAKEE3 • RAMON): Via JLI VORTAC R-245 to NKX TACAN 13 DME. Then arc NE of NKX via the 13 DME arc to RAMON. Cross RAMON at 7000 mandatory.

THERMAL TRANSITION (LAKEE3 • TRM): Via JLI VORTAC R-245 to JLI. Then via JLI R-021 to TRM VORTAC. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000.

MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

REDIN-FOUR DEPARTURE (REDIN4 • REDIN)

SAN DIEGO, CALIFORNIA

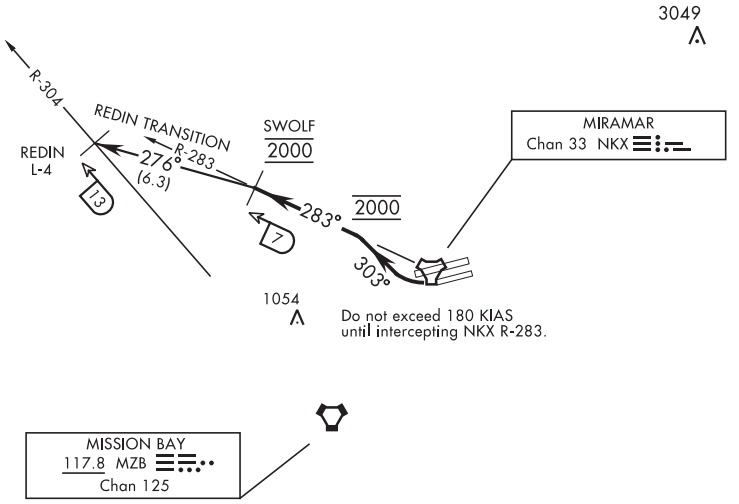
ATIS ★ 133.475 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
FOSS TOWER ★
135.2 298.925
SOCAL DEP CON
119.6 363.1 W

SL-903 [USN]

Rwy	Knots	60	120	180	240	300	360
24L/R	V/V(fpm)	780	1560	2340	3120	3900	4680

ATC Climb Rate to 2000

RESTRICTED TO
CAT A & B ACFT ONLY



EMERG SAFE ALT 100 NM 13,600

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Climbing right turn to 2000 via heading 303° to intercept and proceed via NKX TACAN R-283 to SWOLF. Complete turn within NKX 2 DME. Cross NKX R-283/3 DME at 2000 mandatory. Maintain 2000 at SWOLF mandatory.

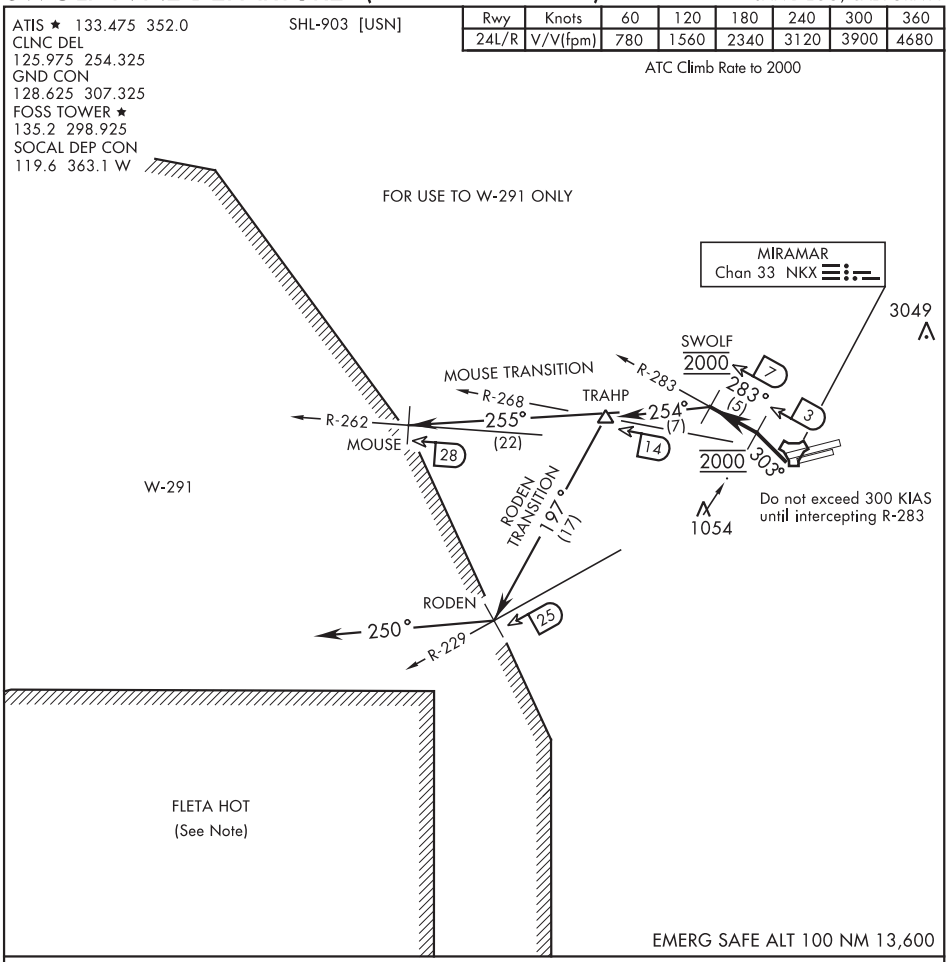
REDIN TRANSITION (REDIN4 • REDIN): Turn left heading 276° to intercept MZB VORTAC R-304 at REDIN.

20310

MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

SWOLF-NINE DEPARTURE (SWOLF9 • SWOLF)

SAN DIEGO, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Climbing right turn to 2000 via heading 303° to intercept and proceed via NKX TACAN R-283 to SWOLF. Complete turn within NKX 2 DME. Cross NKX R-283/3 DME at 2000 mandatory. Maintain 2000 at SWOLF mandatory. Thence...

MOUSE TRANSITION (SWOLF9 • MOUSE): Turn left heading 255° to intercept NKX R-262 at MOUSE. Maintain 2000 for entry into W-291.

(Continued on next page)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

RODEN TRANSITION (SWOLF9 · RODEN): Turn left heading 254 °to intercept NKX R-268 at TRAHP. Then turn left heading 197° to intercept NKX R-229 at RODEN. Maintain 2000 for entry into W-291 via heading 250°.

NOTE:

(1) FLETA HOT-ACTIVE FIRING AREA (DANGER, REMAIN CLEAR).

(2) ALL AIRCRAFT SHOULD MAINTAIN LAST ASSIGNED HEADING/RADIAL AND ALTITUDE TO AVOID INBOUND MILITARY OR CIVIL AIRCRAFT AT HIGHER ALTITUDES!

SW-3, 05 NOV 2020 to 31 DEC 2020

20310

MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

TINNY-FOUR DEPARTURE (TINNY4•TINNY)

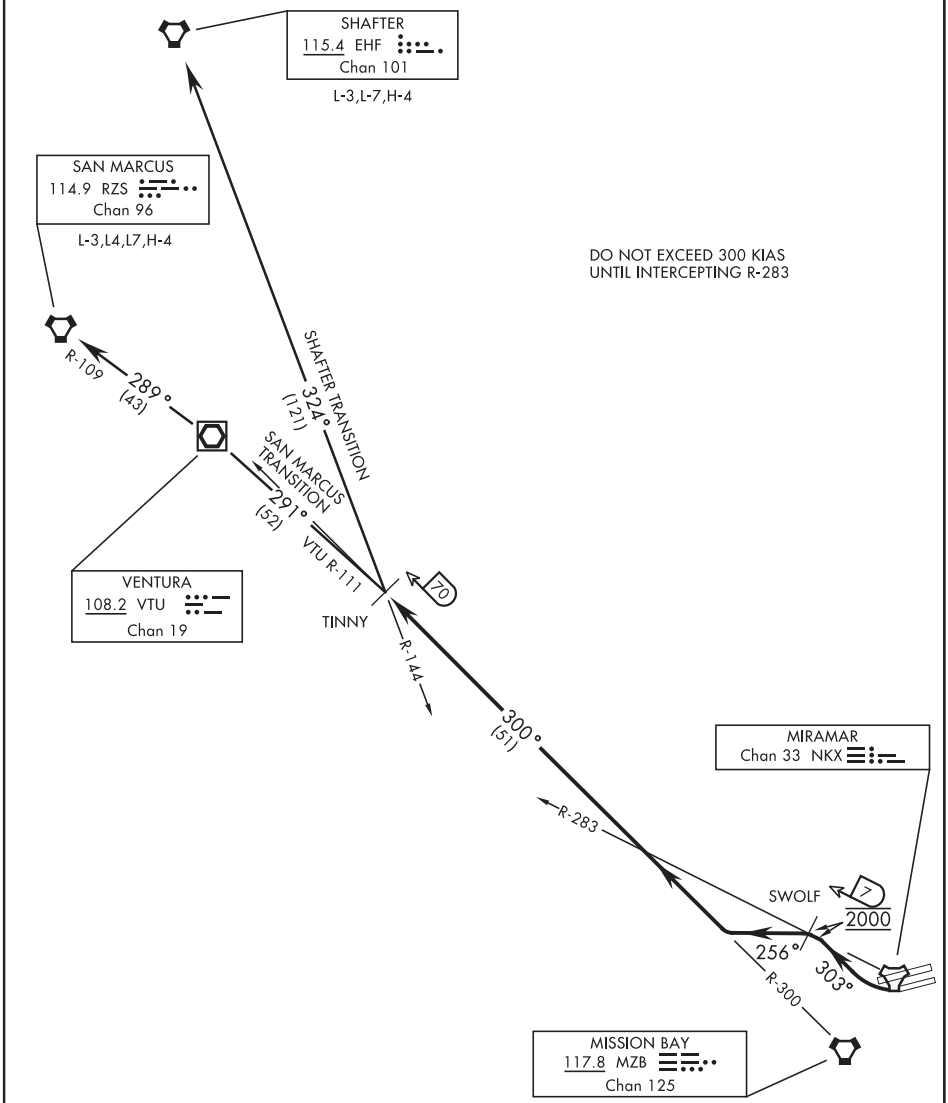
SAN DIEGO, CALIFORNIA

ATIS ★ 133.475 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
FOSS TOWER ★
135.2 298.925
SOCAL DEP CON
119.6 363.1 W

SHL-903 [USN]

Rwy	Knots	60	120	180	240	300	360
24L/R	V/V(fpm)	780	1560	2340	3120	3900	4680

ATC Climb Rate to 2000



EMERG SAFE ALT 100 NM 13,600

NOTE: Chart not to scale

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

TINNY-FOUR DEPARTURE (TINNY4•TINNY)

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Climbing right turn to 2000 heading 303° to intercept and proceed via NKX TACAN R-283 to SWOLF. Complete turn within NKX 2 DME. Cross NKX R-283/3 DME at 2000 mandatory. Maintain 2000 at SWOLF mandatory. Then turn left heading 256 to intercept and proceed via MZB VORTAC R-300 to TINNY int. Thence...

SAN MARCUS TRANSITION (TINNY4·RZS): Via VTU VOR/DME R-111 to VTU, then via RZS VORTAC R-109 to RZS.

SHAFTER TRANSITION (TINNY4·EHF): Via EHF VORTAC R-144 to EHF.

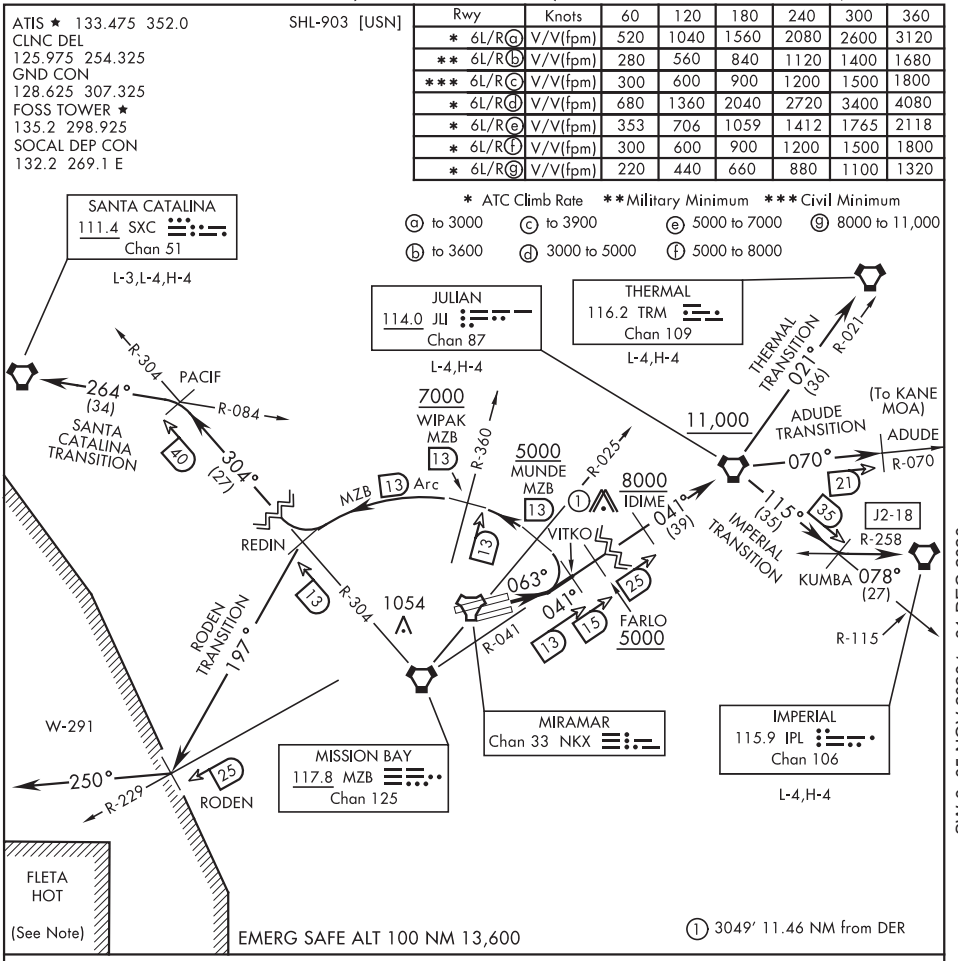
SW-3, 05 NOV 2020 to 31 DEC 2020

20310

MIRAMAR MCAS (JOE FOSS FLD) (KNKX)

VITKO-THREE DEPARTURE (VITKO3 • VITKO)

SAN DIEGO, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 6L/R: Climb via heading 063° to intercept and proceed via MZB VORTAC R-041 to VITKO. Join MZB R-041 at or above 3000. Thence...

ADUDE TRANSITION (VITKO3 • ADUDE): Via MZB R-041 to JLI VORTAC. Then JLI R-070 to ADUDE. Cross FARLO at or above 5000. Cross IDIME at or above 8000. Cross JLI VORTAC at or above 11,000. (To operate in KANE MOA.)

IMPERIAL TRANSITION (VITKO3 • IPL): Via MZB R-041 to JLI VORTAC. Then via JLI R-115 to KUMBA INT, then via IPL VORTAC R-258 to IPL. Cross FARLO at or above 5000. Cross IDIME at or above 8000. Cross JLI VORTAC at or above 11,000.

(Continued on next page)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

RODEN TRANSITION (VITKO3 · RODEN): Arc N of MZB VORTAC via the 13 mile arc to REDIN. Then turn left heading 197° to intercept NKX R-229 at RODEN. Then turn right heading 250° for entry into W-291. Cross MUNDE at or above 5000. Cross WIPAK at or above 7000.

SANTA CATALINA TRANSITION (VITKO3 · SXC): Arc N of MZB VORTAC via the 13 mile arc to REDIN. Then via MZB R-304 to PACIF INT. Then via SXC R-084 to SXC VORTAC. Cross MUNDE at or above 5000. Cross WIPAK at or above 7000.

THERMAL TRANSITION (VITKO3 · TRM): Via MZB R-041 to JLI VORTAC. Then via JLI R-021to TRM VORTAC. Cross FARLO at or above 5000. Cross IDIME at or above 8000. Cross JLI VORTAC at or above 11,000.

NOTE:
(1) FLETA HOT-ACTIVE FIRING AREA (DANGER, REMAIN CLEAR).
(2) ALL AIRCRAFT SHOULD MAINTAIN LAST ASSIGNED HEADING/RADIAL AND ALTITUDE TO AVOID INBOUND MILITARY OR CIVIL AIRCRAFT AT HIGHER ALTITUDES!

SW-3, 05 NOV 2020 to 31 DEC 2020

MOJAVE, CALIFORNIA | AL-9353 (FAA) | 20086

WAAS	APP CRS	Rwy Idg	4747
CH 77743	029°	TDZE	2780
W04A		Apt Elev	2801

RNAV (GPS) RWY 4

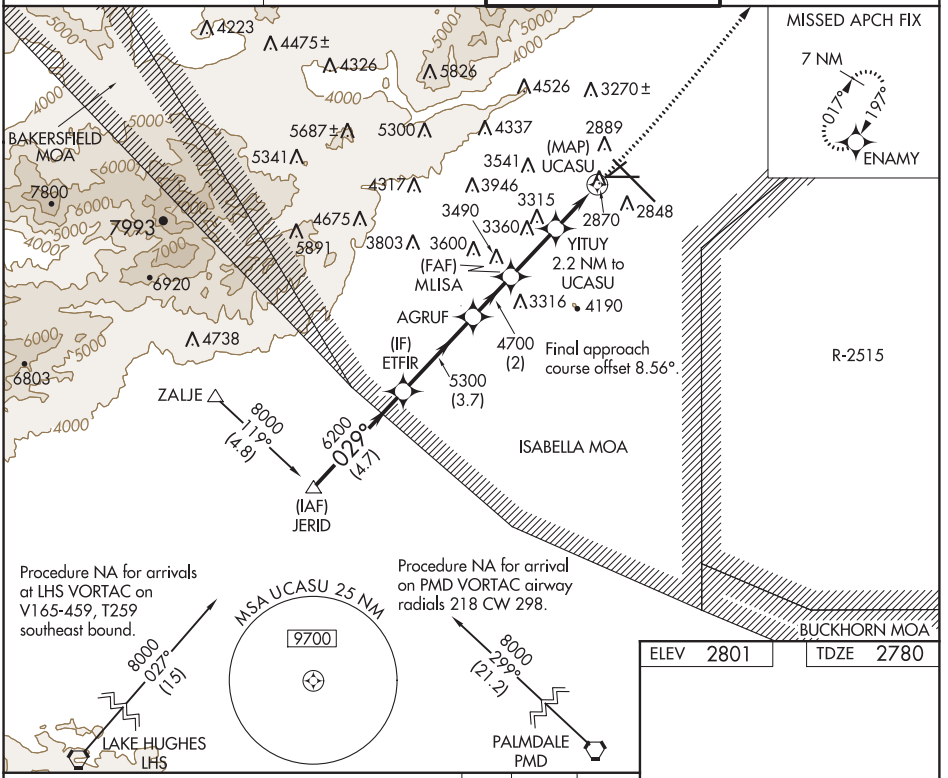
MOJAVE AIR AND SPACE PORT (MHV)

RNP APCH.

Circling NA southeast of Rwy 4 and south of Rwy 26 .
Rwy 4 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3300 then climbing left turn to 7000 direct ENAMY and hold, continue climb-in-hold to 7000.

AWOS-3	JOSHUA APP CON	MOJAVE TOWER★	GND CON
132.225	133.65 348.7	127.6 (CTAF) L 288.35	123.9



CATEGORY	A	B	C	D
LP MDA	3180-1 400 (400-1)		3180-1⅛ 400 (400-1⅛)	
LNAV MDA	3180-1 400 (400-1)		3180-1⅛ 400 (400-1⅛)	
C CIRCLING	3300-1 499 (500-1)	3480-1 679 (700-1)	4140-3 1339 (1400-3)	4500-3 1699 (1700-3)

REIL Rwys 12 and 30 L
MIRL Rwys 8-26 and 4-22 L
HIRL Rwy 12-30 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	4747
218°	TDZE	2780
	Apt Elev	2801

RNAV (GPS) RWY 22

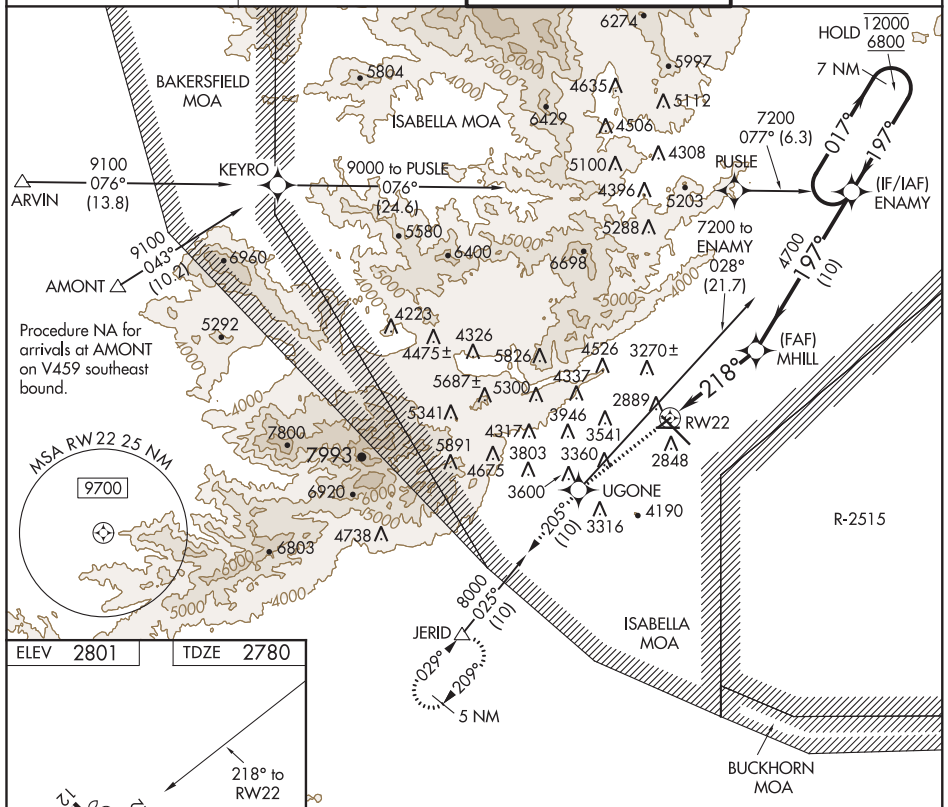
MOJAVE AIR AND SPACE PORT (MHV)

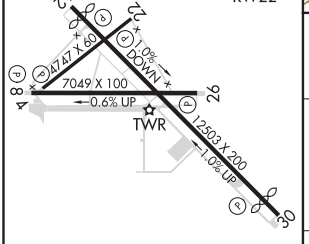
RNP APCH.

Circling NA southeast of runway 4 and south of Rwy 26.

MISSED APPROACH: Climb to 6000 direct UGONE and on track 205° to JERID and hold.

AWOS-3	JOSHUA APP CON	MOJAVE TOWER★	GND CON
132.225	133.65 348.7	127.6 (CTAF) L 288.35	123.9





CATEGORY	A	B	C	D
LNAV MDA	3200-1 420 (400-1)		3200-1⅛ 420 (400-1⅛)	
C CIRCLING	3300-1 499 (500-1)	3480-1 679 (700-1)	4140-3 1339 (1400-3)	4500-3 1699 (1700-3)

REIL Rwys 12 and 30 L
MIRL Rwys 8-26 and 4-22 L
HIRL Rwy 12-30 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

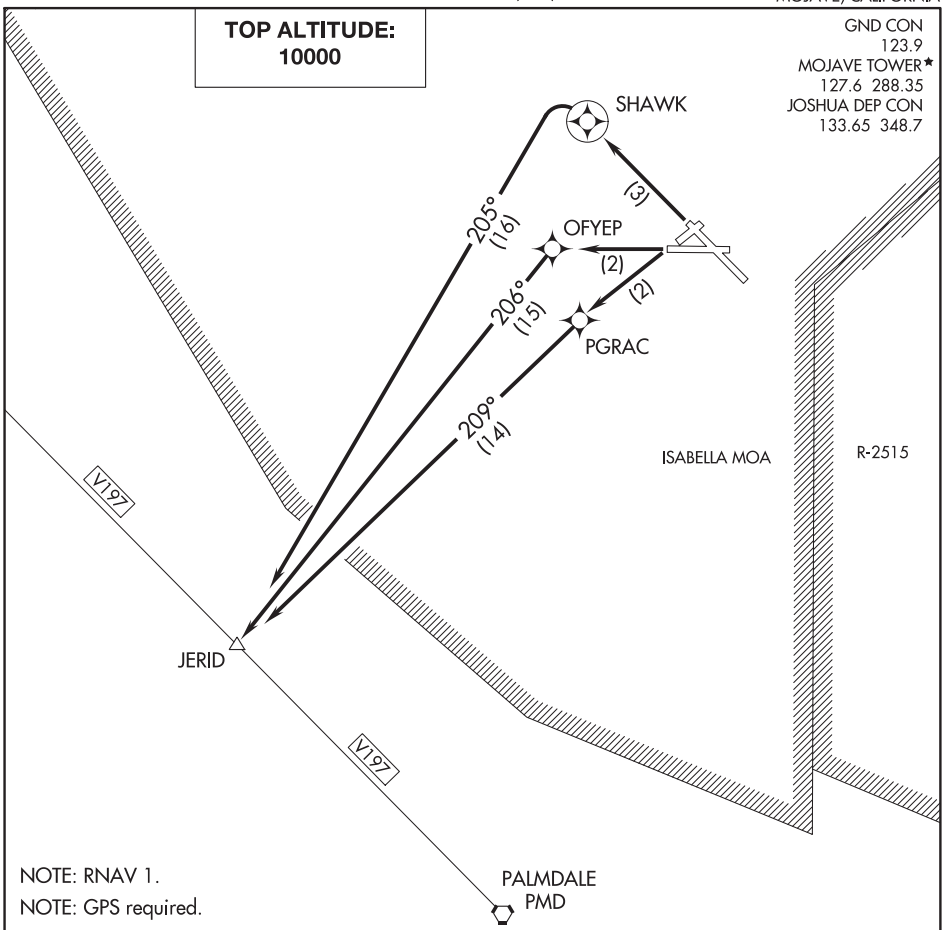
MOJAVE AIR AND SPACE PORT (MHV)

AL-9353 (FAA)

MOJAVE, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020



NOTE: RNAV 1.

NOTE: GPS required.

TAKEOFF MINIMUMS

Rwys 4, 8, 12: NA - restricted airspace.

Rwys 22 and 26: Standard with minimum climb of 480′ per NM to 7600.

Rwy 30: Standard with minimum climb of 497′ per NM to 7000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 22: Climb direct PGRAC, then on track 209° to JERID, thence. . . .

TAKEOFF RUNWAY 26: Climb direct OFYEP, then on track 206° to JERID, thence. . . .

TAKEOFF RUNWAY 30: Climb direct SHAWK, then climbing left turn on track 205° to JERID, thence. . . .

. . . .maintain 10000, expect filed altitude 10 minutes after departure.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS	Rwy Idg	6000
CH 78135	179°	TDZE	1350
W18A		Apt Elev	1350

RNAV (GPS) RWY 18

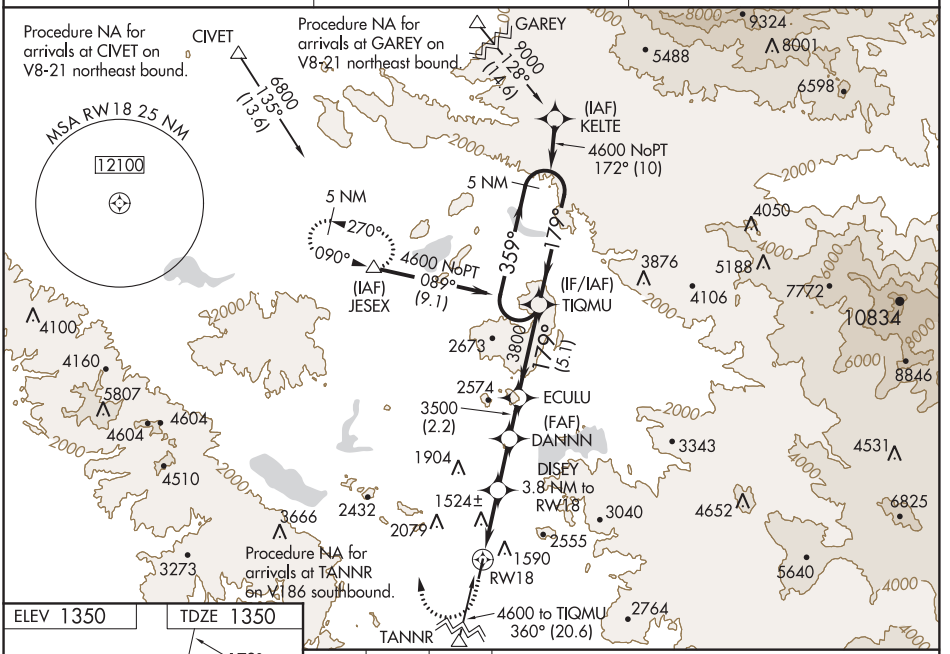
FRENCH VALLEY (F70)

DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA with Ramona altimeter setting. Circling NA west of Rwy 18-36. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). When local altimeter setting not received use Ramona altimeter setting: increase LPV DA to 1685 feet and all visibilities ¼ mile, LNAV/VNAV DA to 1955 feet and all visibilities ¾ mile, all MDA 80 feet and LNAV visibility Cat B ¼ mile, Cat C ⅛ mile, and Circling visibility Cat C ¼ mile. Helicopter visibility reduction below ¾ SM NA.

NA

MISSED APPROACH: Climb to 2500 then climbing right turn to 5000 direct JESEX and hold.

AWOS-3	MARCH APP CON ★	UNICOM
119.025	133.5 306.975	122.8 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	1600-⅞ 250 (300-⅞)			NA
LNAV/VNAV DA	1871-1¾ 521 (600-1¾)			NA
LNAV MDA	1780-1 430 (500-1)		1780-1¼ 430 (500-1¼)	NA
C CIRCLING	2020-1 670 (700-1)		2060-2 710 (800-2)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

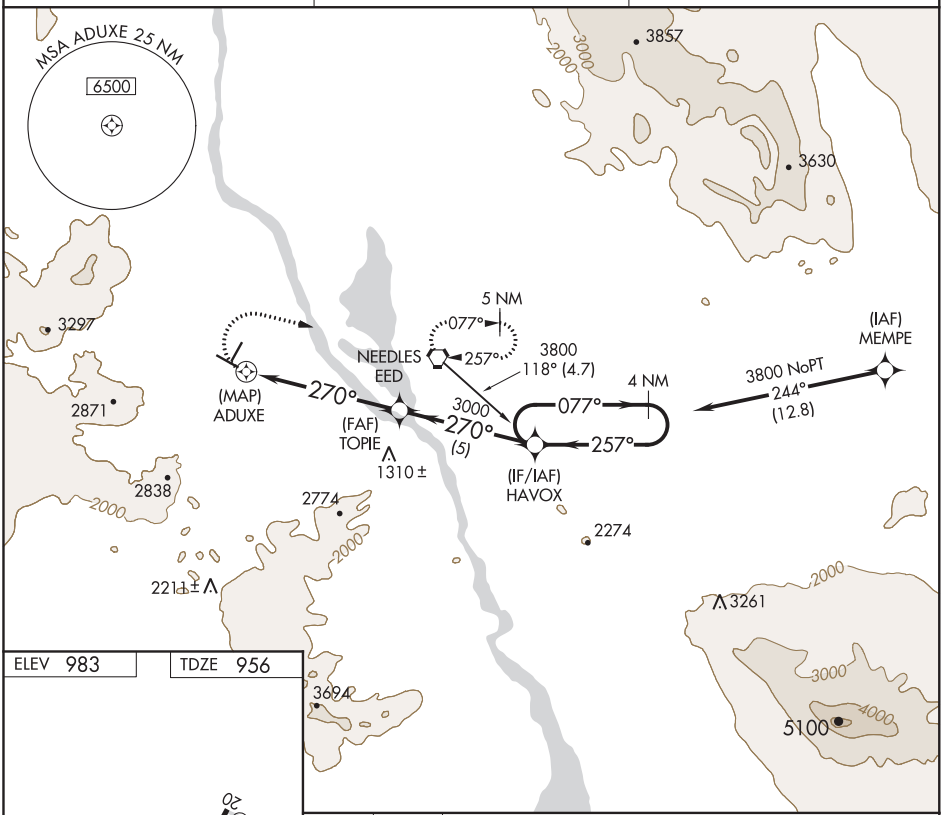
APP CRS	Rwy Idg	5005
270°	TDZE	956
	Apt Elev	983

RNAV (GPS) RWY 29
NEEDLES (EED)

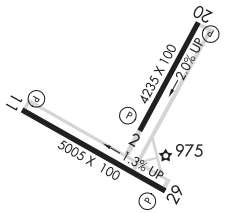
T NA — Straight-in minimums not authorized at night. GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 6000 direct to EED VORTAC and hold.

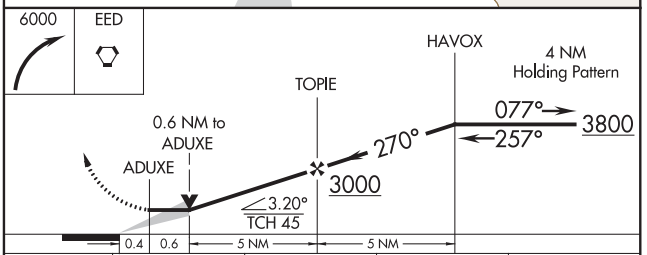
ASOS	LOS ANGELES CENTER	UNICOM
128.325	134.65 360.65	123.0 (CTAF) L



ELEV 983 | TDZE 956



MIRL Rwys 2-20 and 11-29 L
REIL Rwys 11 and 29 L



CATEGORY	A	B	C	D
LNAV MDA	1300-1 344 (400-1)			1300-1¼ 344 (400-1¼)
CIRCLING	1560-1 577 (600-1)	1600-1 617 (700-1)	1620-1¾ 637 (700-1¾)	1780-2½ 797 (800-2½)

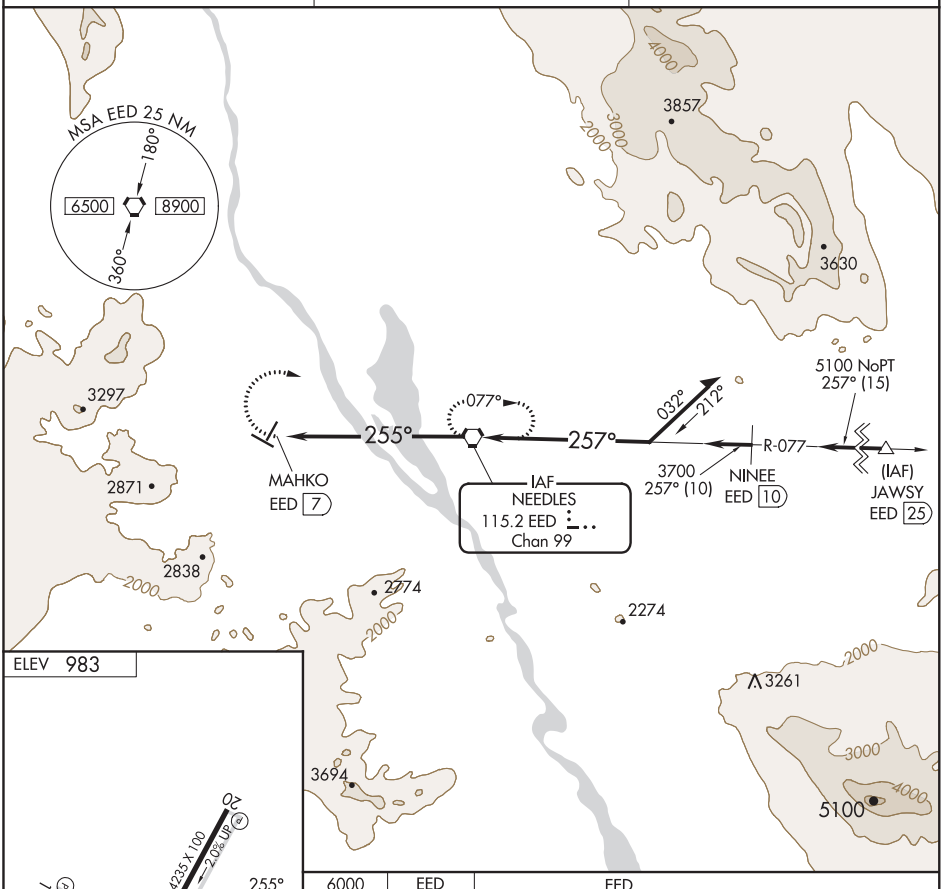
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC EED	APP CRS	Rwy Idg	N/A
115.2	255°	TDZE	N/A
Chan 99		Apt Elev	983

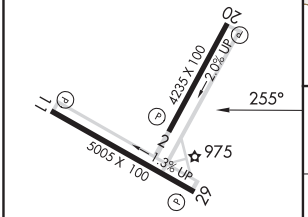
VOR-A
NEEDLES (EED)

MISSED APPROACH: Climbing right turn to 6000 direct EED VORTAC and hold.

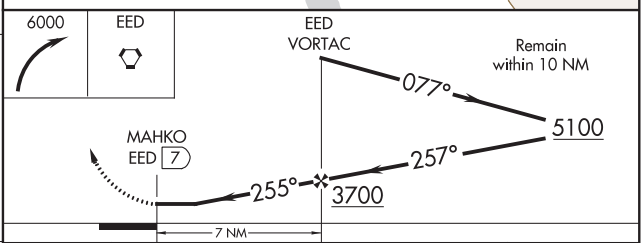
ASOS	LOS ANGELES CENTER	UNICOM
128.325	134.65 360.65	123.0 (CTAF) L



ELEV 983



MIRL Rwys 2-20 and 11-29 L
REIL Rwys 11 and 29 L



FAF to MAP 7 NM					
Knots	60	90	120	150	180
Min:Sec	7:00	4:40	3:30	2:48	2:20

CATEGORY	A	B	C	D
CIRCLING	1560-1 577 (600-1)	1600-1 617 (700-1)	1620-1¾ 637 (700-1¾)	1780-2½ 797 (800-2½)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA

RNAV (GPS) RWY 36

APCH CRS	Rwy ldg	8000
357°	TDZE	19
	Arpt Elev	26

AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

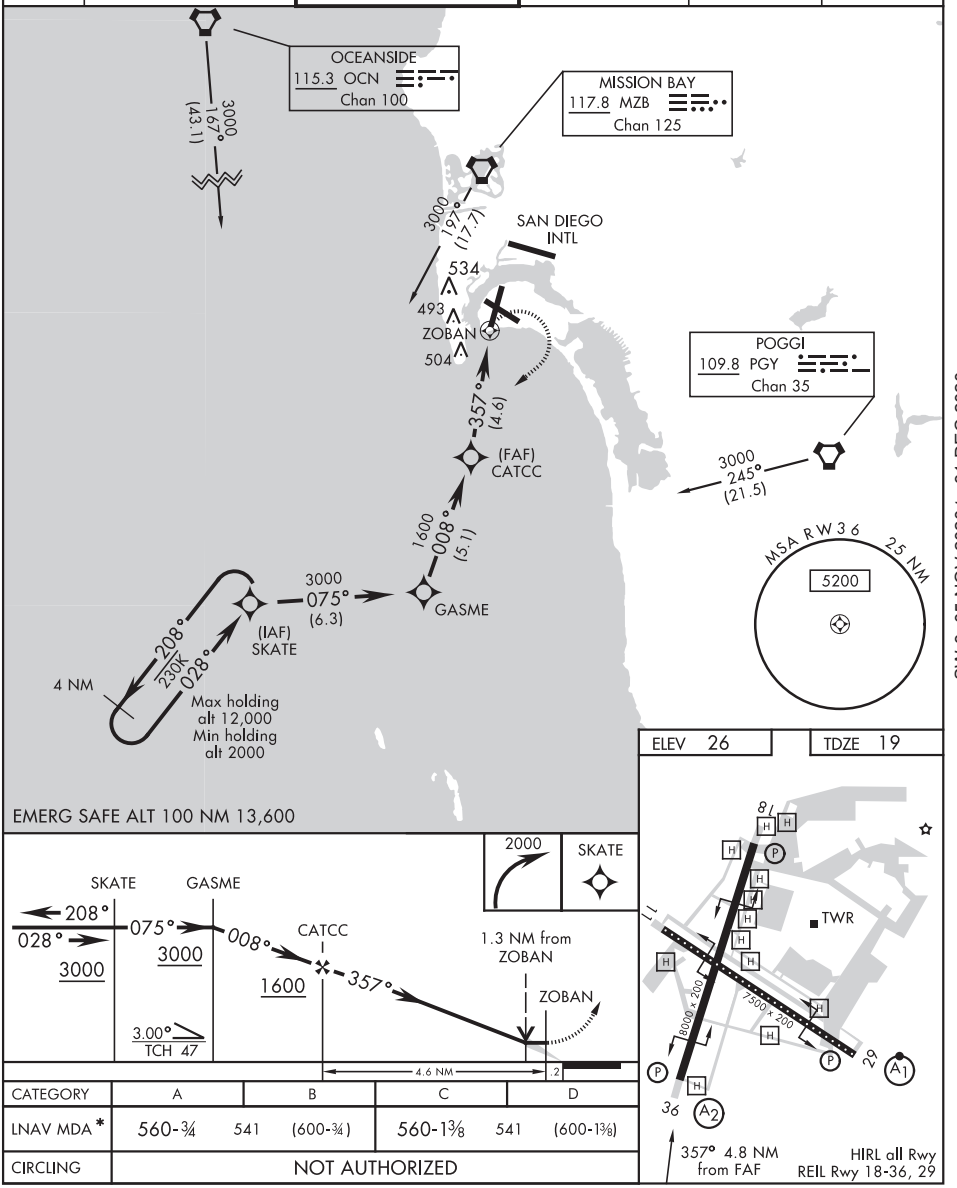
RNP APCH.

* When ALS inop, increase CAT AB vis to 1 mile; CAT CD vis to 1⅝ miles.

SALS

MISSED APPROACH: Climbing right turn to 2000 direct SKATE and hold.

ATIS ★	SOCAL APP CON	NORTH ISLAND TOWER ★	GND CON	CLNC DEL	PAR/ASR
317.8	125.15 317.55	135.1 336.4	118.0 360.675	128.4 288.25	



CATEGORY	A	B	C	D
LNAV MDA *	560-¾ 541	(600-¾)	560-1⅜ 541	(600-1⅜)
CIRCLING	NOT AUTHORIZED			

ELEV 26 TDZE 19

SAN DIEGO, CALIFORNIA
Amdt 5 05NOV20

32°42'N-117°13'W

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

RNAV (GPS) RWY 36

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20310

SAN DIEGO, CALIFORNIA

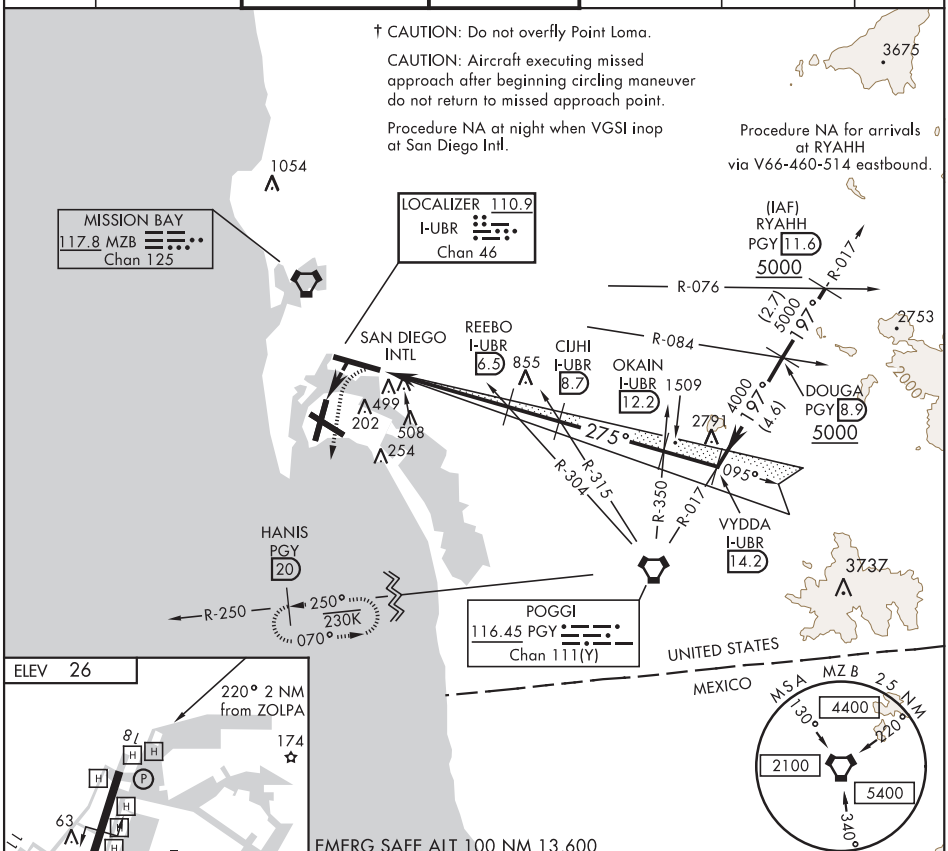
LOC/DME-A

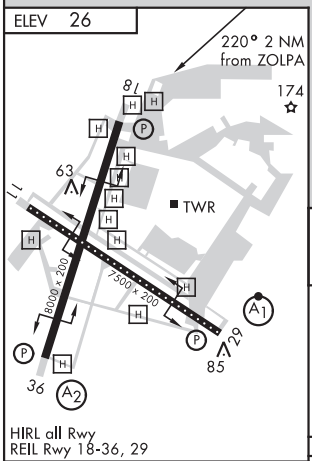
LOC/DME I-UBR 110.9 Chan 46	APCH CRS 275°	Rwy ldg N/A THRE N/A Arpt Elev 26	AL-374 [USN]	NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

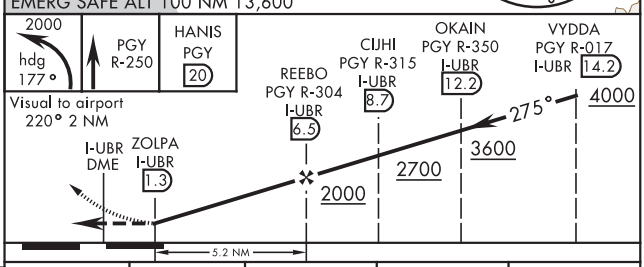
* CAUTION: Maneuvering for circling approach not authorized W of Rwy18-36 centerline. Approach authorized for Rwy 18 or left downwind approach to Rwy 29 after flying down Rwy 18.

†MISSED APPROACH: Climb and maintain 2000 via hdg 177°, intercept PGY VORTAC R-250 to HANIS and hold.

ATIS ★	SOCAL APP CON	NORTH ISLAND TOWER ★	LINDBERGH TOWER	GND CON	CLNC DEL	PAR/ASR
317.8	125.15 317.55	135.1 336.4	118.3 338.225	118.0 360.675	128.4 288.25	







FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

CATEGORY	A	B	C	D
C CIRCLING *	860-2½	834 (900-2½)	880-2½ 854 (900-2½)	880-2¾ 854 (900-2¾)

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA 32°42'N-117°13'W NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

Amdt 6 05NOV20

LOC/DME-A

SAN DIEGO, CALIFORNIA

LOC/DME-B

LOC/DME I-SAN	APCH CRS	Rwy Idg	N/A
111.55	095°	THRE	N/A
Chan 52(Y)		Arpt Elev	26

AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

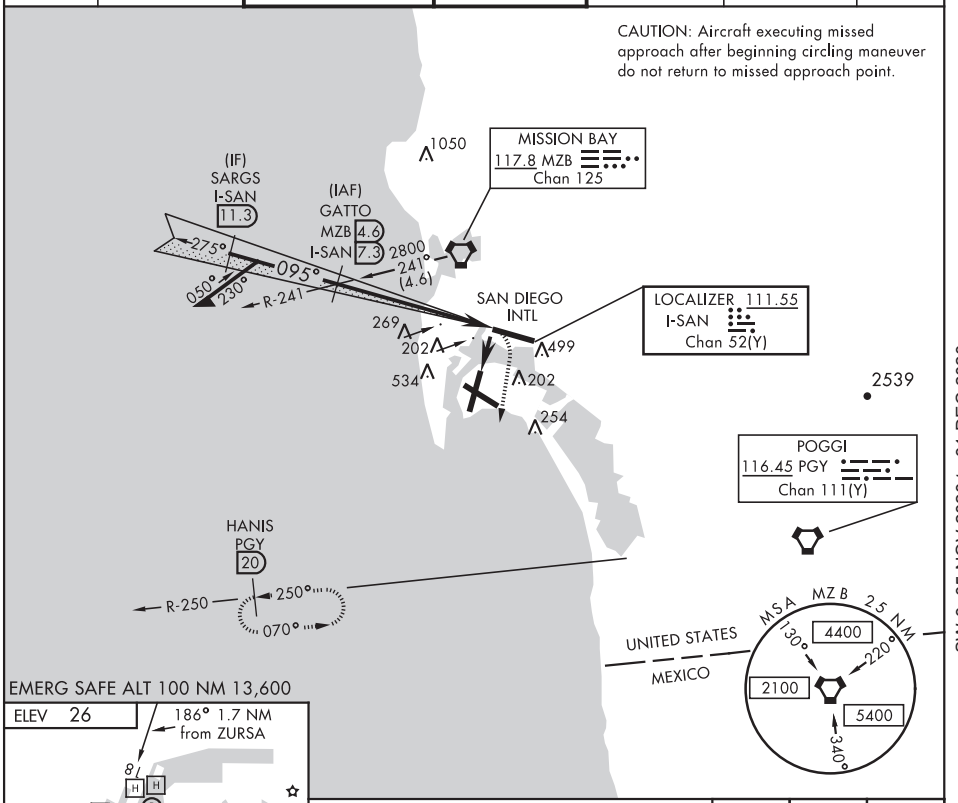
RADAR required at SARGS.

* CAUTION: Maneuvering for circling approach not authorized W of Rwy18-36 centerline. Approach authorized for Rwy 18 or left downwind approach to Rwy 29 after flying down Rwy 18.

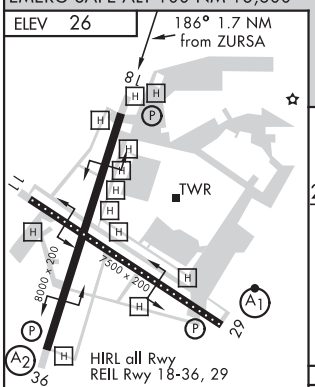
MISSED APPROACH: Climb and maintain 2000 via hdg 177°, intercept PGY VORTAC R-250 to HANIS and hold.

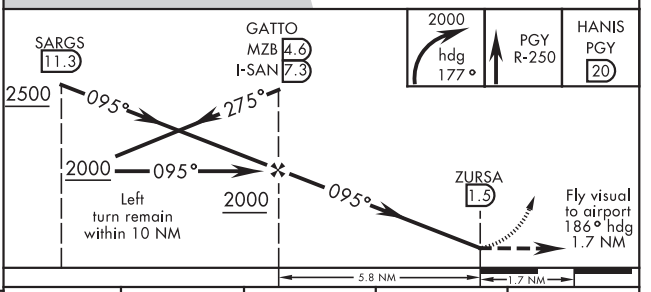
ATIS ★	SOCAL APP CON	NORTH ISLAND TOWER ★	LINDBERGH TOWER	GND CON	CLNC DEL	PAR/ASR
317.8	125.15 317.55	135.1 336.4	118.3 338.225	118.0 360.675	128.4 288.25	

CAUTION: Aircraft executing missed approach after beginning circling maneuver do not return to missed approach point.



EMERG SAFE ALT 100 NM 13,600





FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:52

CATEGORY	A	B	C	D
C CIRCLING*	860-2	834 (900-2)	880-2½ 854 (900-2½)	880-2¾ 854 (900-2¾)

SAN DIEGO, CALIFORNIA

Amdt 7 05NOV20

32°42'N-117°13'W NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

LOC/DME-B

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

20310

SAN DIEGO, CALIFORNIA

VOR/DME RWY 29

VORTAC PGY	APCH CRS	Rwy ldg 7500
116.45	279°	TDZE 26
Chan 111(Y)		Arpt Elev 26

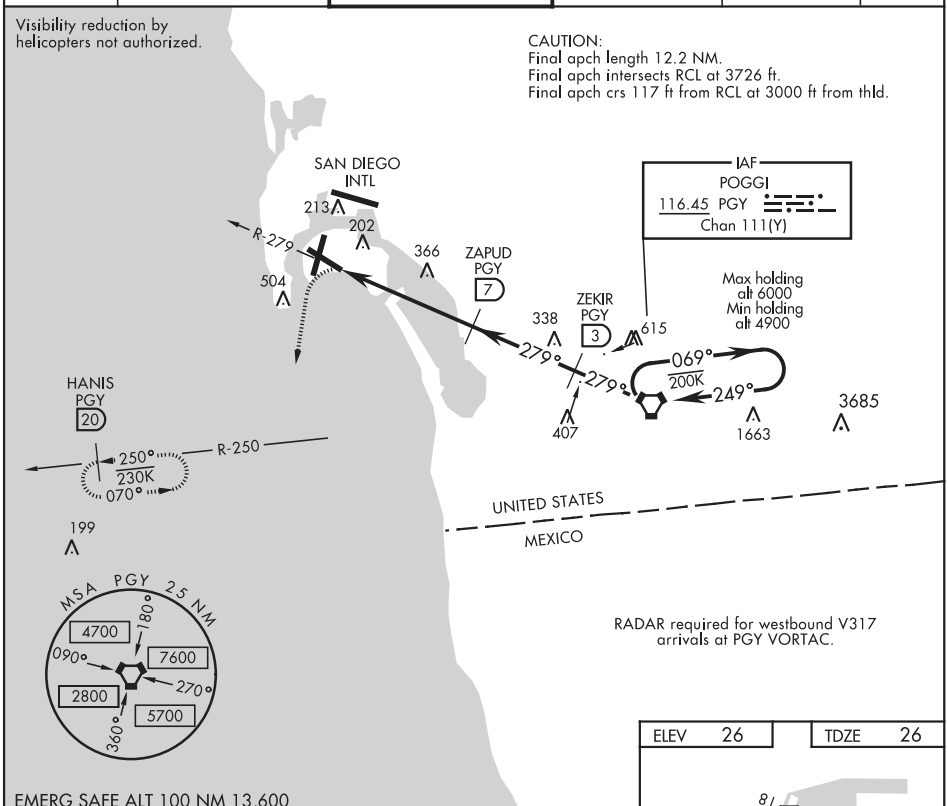
AL-374 [USN] NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

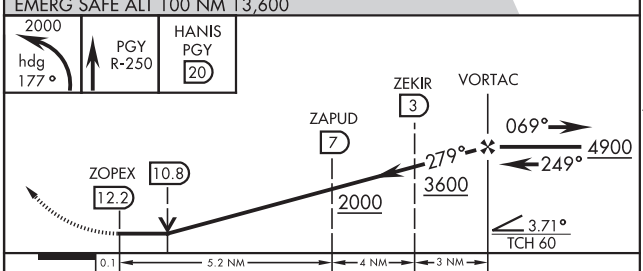
* When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1¾ miles.
** Circling not authorized W of Rwy 18-36. Circling authorized to Rwy 18 only.

ALSF-1 (A1)

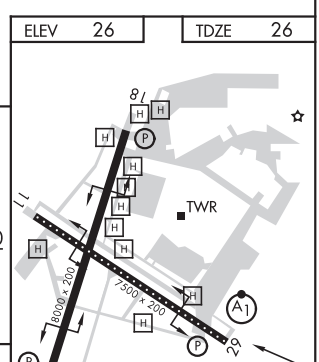
MISSED APPROACH: Climbing left turn to 2000 via hdg 177° intercept PGY VORTAC R-250 to HANIS and hold.

ATIS ★	SOCAL APP CON	NORTH ISLAND TOWER ★	GND CON	CLNC DEL	PAR/ASR
317.8	125.15 317.55	135.1 336.4	118.0 360.675	128.4 288.25	





CATEGORY	A	B	C	D
S-29 *	660-¾	634 (700-¾)	660-1⅜	634 (700-1⅜)
C CIRCLING **	660-1	634 (700-1)	NOT AUTHORIZED	



HIRL all Rwy
REIL Rwy 18-36, 29

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA 32°42′N-117°13′W NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

Amdt 8 05NOV20

VOR/DME RWY 29

SAN DIEGO, CALIFORNIA

TACAN RWY 29

TACAN NZY Chan 117	APCH CRS 299°	Rwy ldg 7500 TDZE 26 Arpt Elev 26

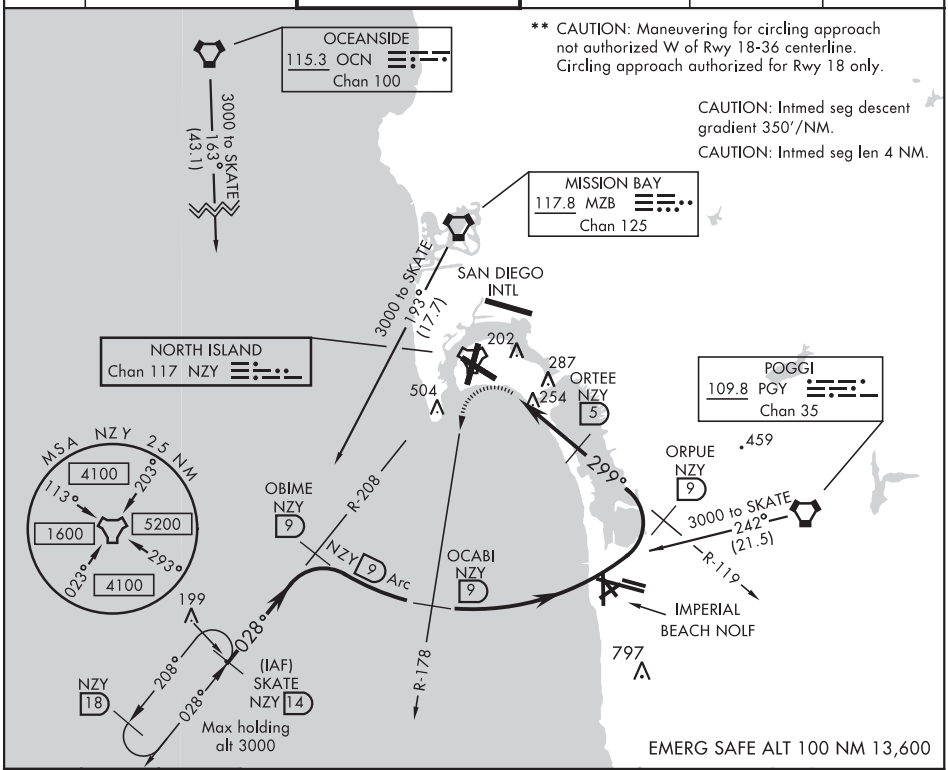
AL-374 [USN] NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

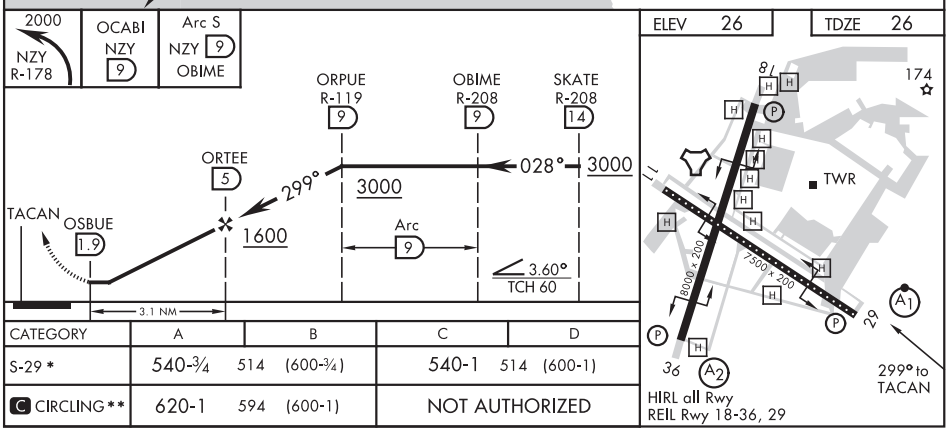
* When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1⅜ mile.

ALSF-1 (A1)

MISSED APPROACH: Climbing left turn to 2000 via NZY TACAN R-178 to OCABI. Arc S on NZY 9 DME arc to OBIME, then via NZY R-208 to SKATE and hold.

ATIS ★	SOCAL APP CON	NORTH ISLAND TOWER ★	GND CON	CLNC DEL	PAR/ASR
317.8	125.15 317.55	135.1 336.4	118.0 360.675	128.4 288.25	





CATEGORY	A	B	C	D
S-29 *	540-¾	514 (600-¾)	540-1	514 (600-1)
C CIRCLING **	620-1	594 (600-1)	NOT AUTHORIZED	

SAN DIEGO, CALIFORNIA 32°42'N-117°13'W NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

Amdt 4 05NOV20

TACAN RWY 29

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

20310

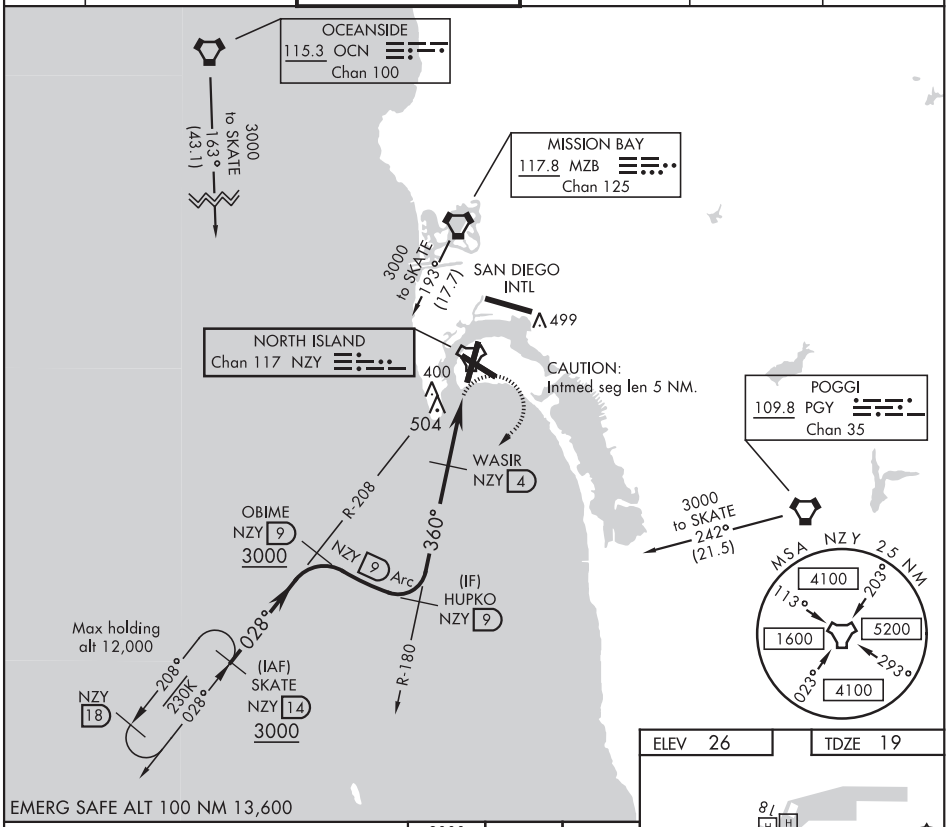
SAN DIEGO, CALIFORNIA

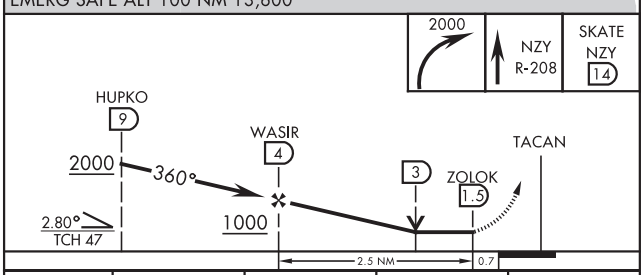
TACAN RWY 36

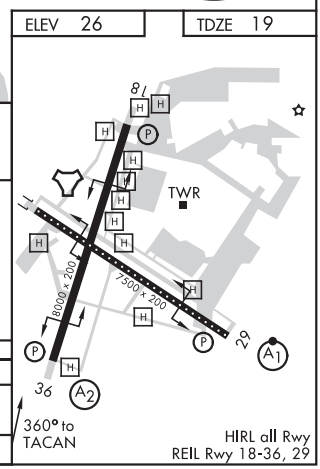
TACAN NZY Chan 117	APCH CRS 360°	Rwy ldg 8000 TDZE 19 Arpt Elev 26	AL-374 [USN]	NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

*When ALS inop, increase CAT A vis to 1 mile, CAT B vis to 1¼ miles, CAT CD vis to 2 miles.	SALS A2	MISSED APPROACH: Climbing right turn to 2000 intercept the NZY TACAN R-208 to SKATE and hold.

ATIS ★	SOCAL APP CON	NORTH ISLAND TOWER ★	GND CON	CLNC DEL	PAR/ASR
317.8	125.15 317.55	135.1 336.4	118.0 360.675	128.4 288.25	







CATEGORY	A	B	C	D
S-36 *	760 ¾ 741 (800-¾)	760-1 741 (800-1)	760-1⅞ 741 (800-1⅞)	
CIRCLING	NOT AUTHORIZED			

SW-3, 05 NOV 2020 to 31 DEC 2020

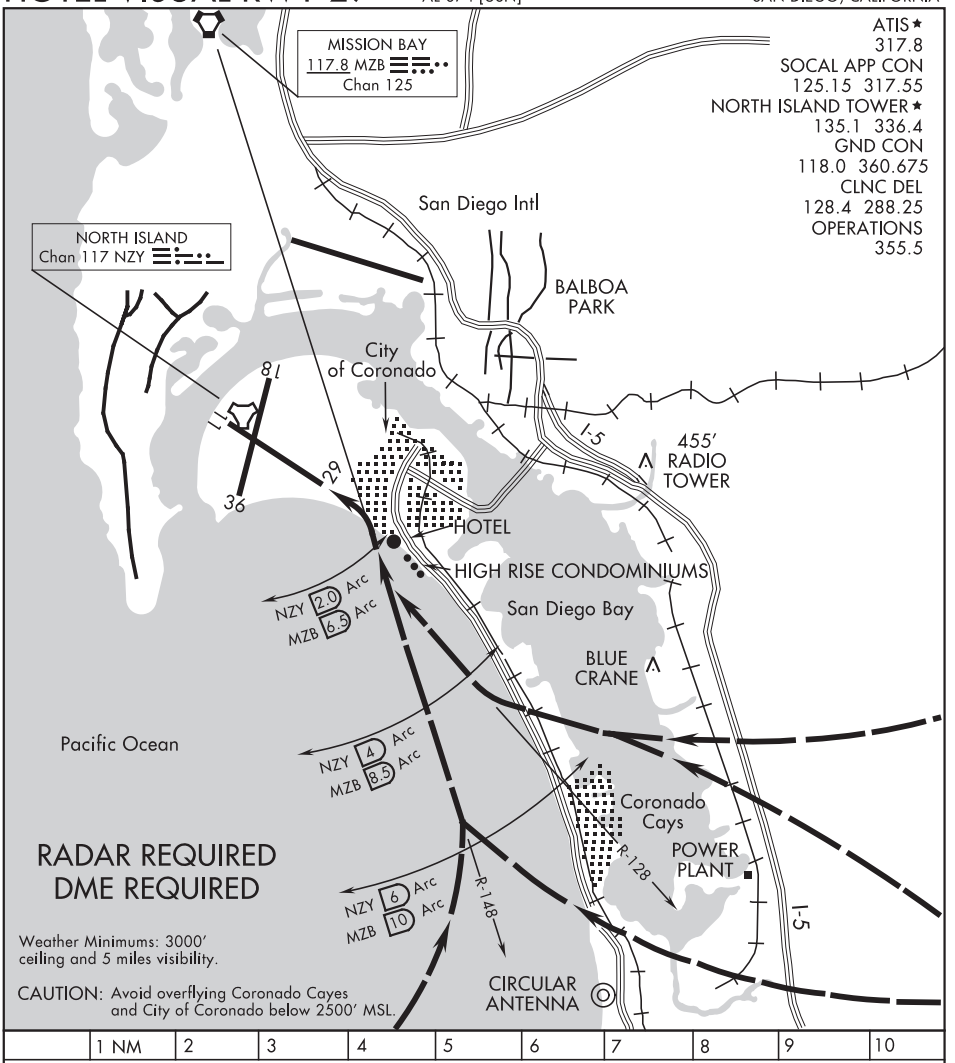
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA 32°42′N-117°13′W NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

Amdt 4 05NOV20

TACAN RWY 36

HOTEL VISUAL RWY 29



HOTEL VISUAL RWY 29

Aircraft avoid overflying Coronado Cayes and City of Coronado below 2500' MSL. Proceed visually via the NZY R-128 or MZB R-148 until reaching NZY 2 DME / MZB 6.5 DME, then maneuver to runway centerline for straight-in Runway 29.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

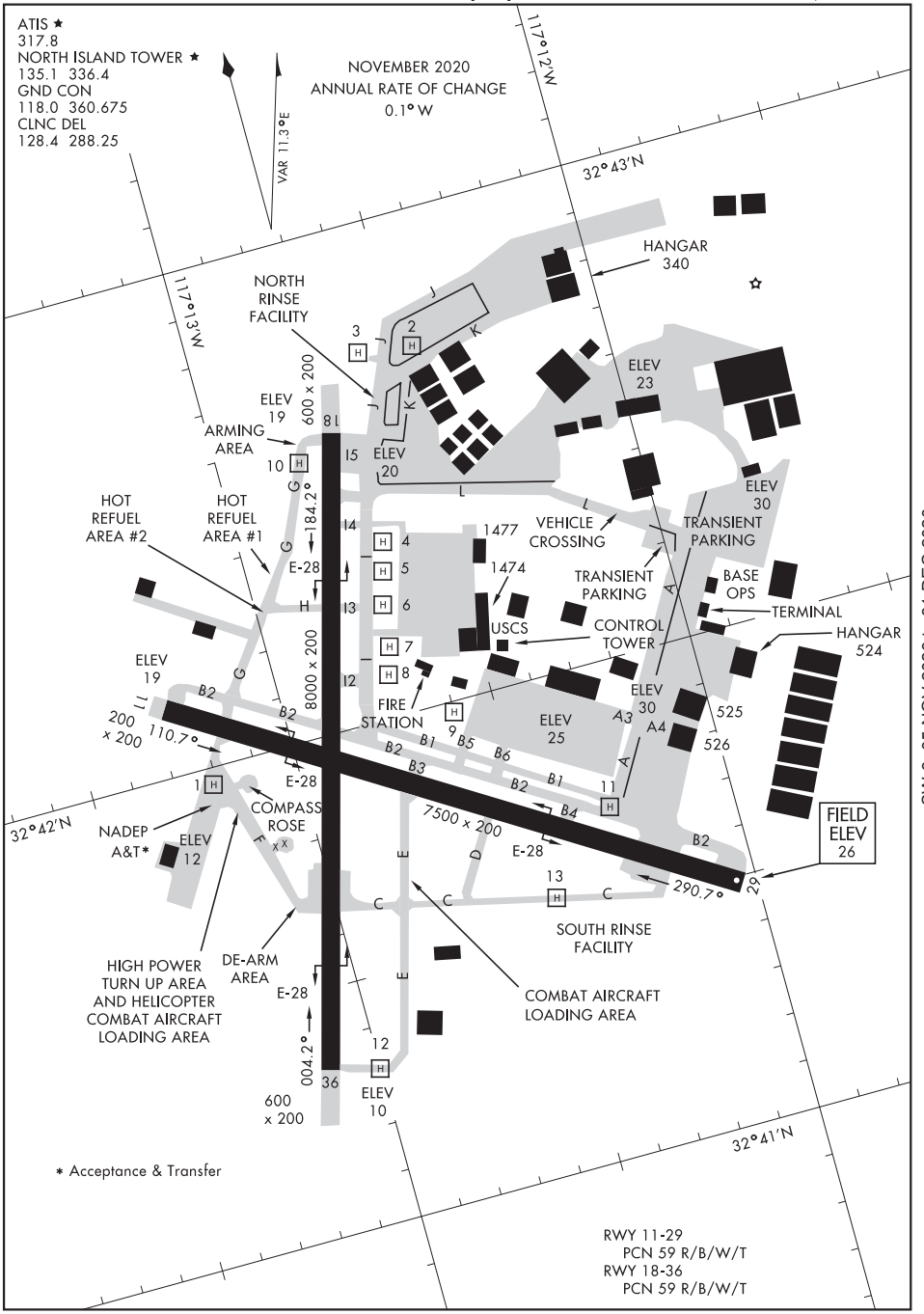
20310

AIRPORT DIAGRAM

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

AFD-374 [USN]

SAN DIEGO, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

SAN DIEGO, CALIFORNIA

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

NASNI NINE DEPARTURE (OBSTACLE) (NASNI 9 • NASNI)

ATIS ★
317.8
CLNC DEL
128.4 288.25
GND CON
118.0 360.675
NORTH ISLAND TOWER ★
135.1 336.4
SOCAL DEP CON
125.15 317.55

SHL-374 [USN]

Rwy	Knots	60	120	180	240	300	360
11 ⓐ	V/V(fpm)	275	550	825	1100	1375	1650
11 ⓑ	V/V(fpm)	290	580	870	1160	1450	1740
29 ⓒ	V/V(fpm)	420	840	1260	1680	2100	2520
29 ⓓ	V/V(fpm)	490	980	1470	1960	2450	2940

Minimum Climb Rate

ⓐ Military climb to 700 or 600-2¼ authorized in lieu of climb rate.
ⓑ Civil climb to 700 or 600-2¼ authorized in lieu of climb rate.
ⓒ Military climb to 700 or 600-2½ authorized in lieu of climb rate.
ⓓ Civil climb to 700 or 600-2½ authorized in lieu of climb rate.

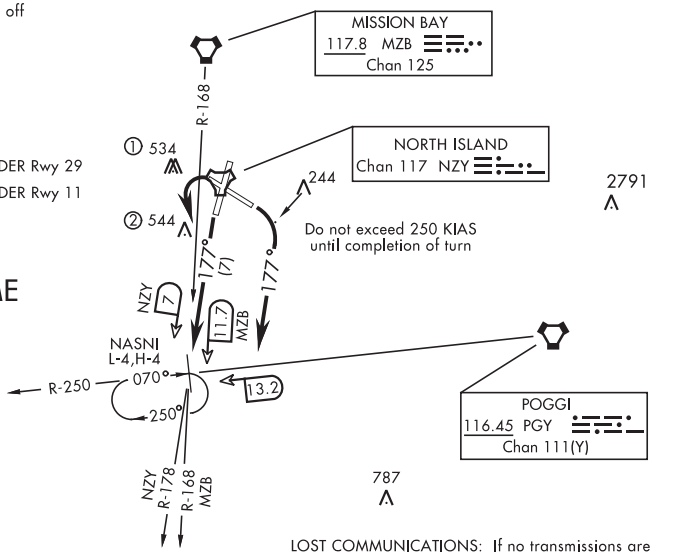
CAUTION: Rwy 29 Cross DER at or above 35'

CAT E aircraft not authorized off Rwy 11 and 29

Rwy 29 CIVIL departure dual DME required

① 1.4 NM from DER Rwy 29
② 2.4 NM from DER Rwy 11

RADAR and DME REQUIRED



Advise ATC prior to taxi if unable to meet climb gradients, DER crossing restrictions or remain within turn restrictions of published departure for an alternate runway assignment.

LOST COMMUNICATIONS: If no transmissions are received prior to crossing the PGY VORTAC R-250 Southbound, turn direct on PGY R-250 to NASNI and hold as published, if no transmissions received within five minutes afterentering holding, proceed on course, climb to filed altitude.

W-291

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 11: Turn right as soon as practicable climbing to 2000 via heading 177°, remain within NZY TACAN 1.4 DME to not overfly the City of Coronado, thence...

TAKE-OFF RWY 18: Climbing left turn to 2000 intercept the NZY R-178 (MZB R-168) to NASNI, thence...

TAKE-OFF RWY 29 (CIVIL): Turn left as soon as practicable climbing to 2000, remain within NZY TACAN 1 DME to not overfly Point Loma, intercept the MZB R-168 to NASNI, thence...

TAKE-OFF RWY 29 (MILITARY): Turn left as soon as practicable climbing to 2000, remain within NZY TACAN 1 DME to not overfly Point Loma, intercept the NZY R-178 to NASNI, thence...

....Expect RADAR vectors to join assigned route.

OCEANSIDE, CALIFORNIA | AL-5666 (FAA) | 20310

APP CRS	Rwy Idg	2712
062°	TDZE	28
	Apt Elev	28

GPS RWY 6

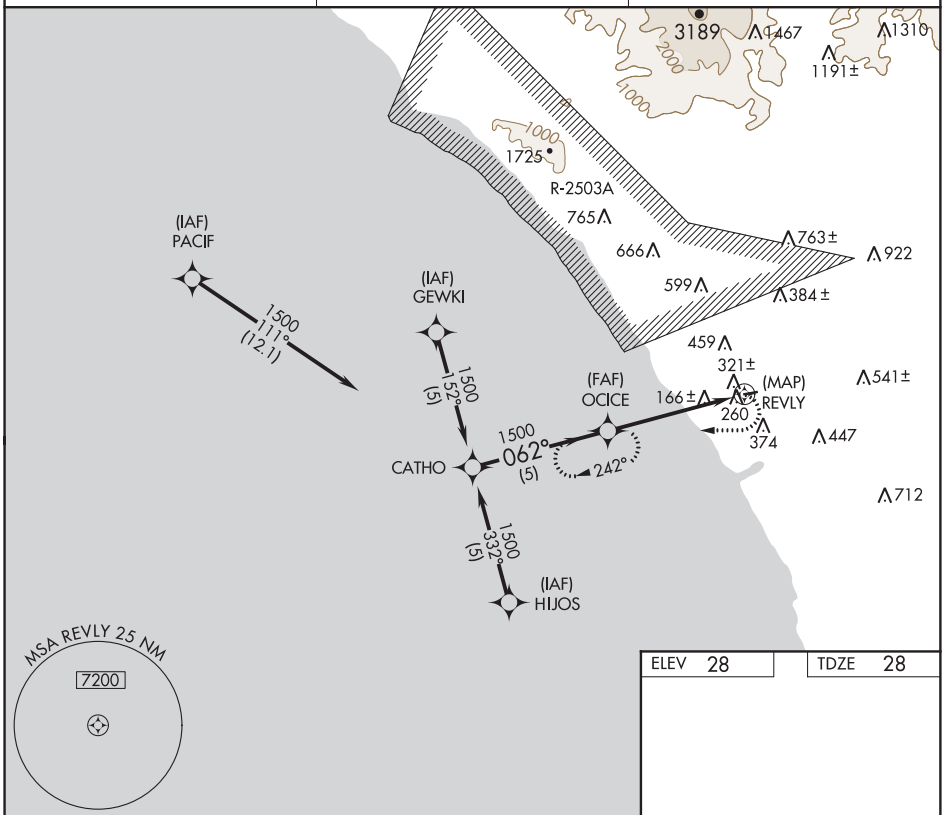
BOB MAXWELL MEMORIAL AIRFIELD (OKB)

NA

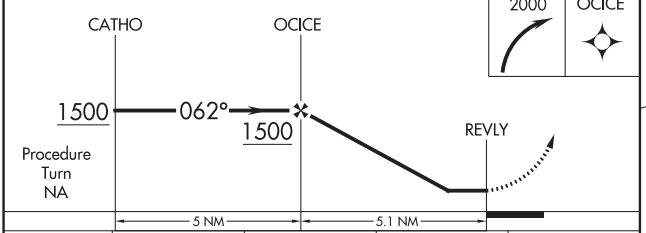
Night Landing: Rwy 6 NA.
Helicopter visibility reduction below 1 SM NA.

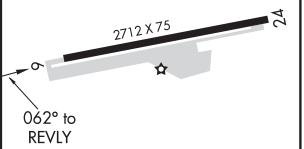
MISSED APPROACH: Climbing right turn to 2000 direct OCICE WP and hold.

ASOS	SOCAL APP CON	UNICOM
127.8	127.3 323.0	122.725 (CTAF) L



ELEV	28	TDZE	28





CATEGORY	A	B	C	D
S-6	720-1	692 (700-1)	NA	
CIRCLING	880-1 852 (900-1)	880-1¼ 852 (900-1¼)	NA	

MIRL Rwy 6-24 L
REIL Rwy 24

OCEANSIDE, CALIFORNIA | 33°13'N-117°21'W | BOB MAXWELL MEMORIAL AIRFIELD (OKB)

Orig-C 31MAR16

GPS RWY 6

SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	2712
247°	TDZE	28
	Apt Elev	28

GPS RWY 24

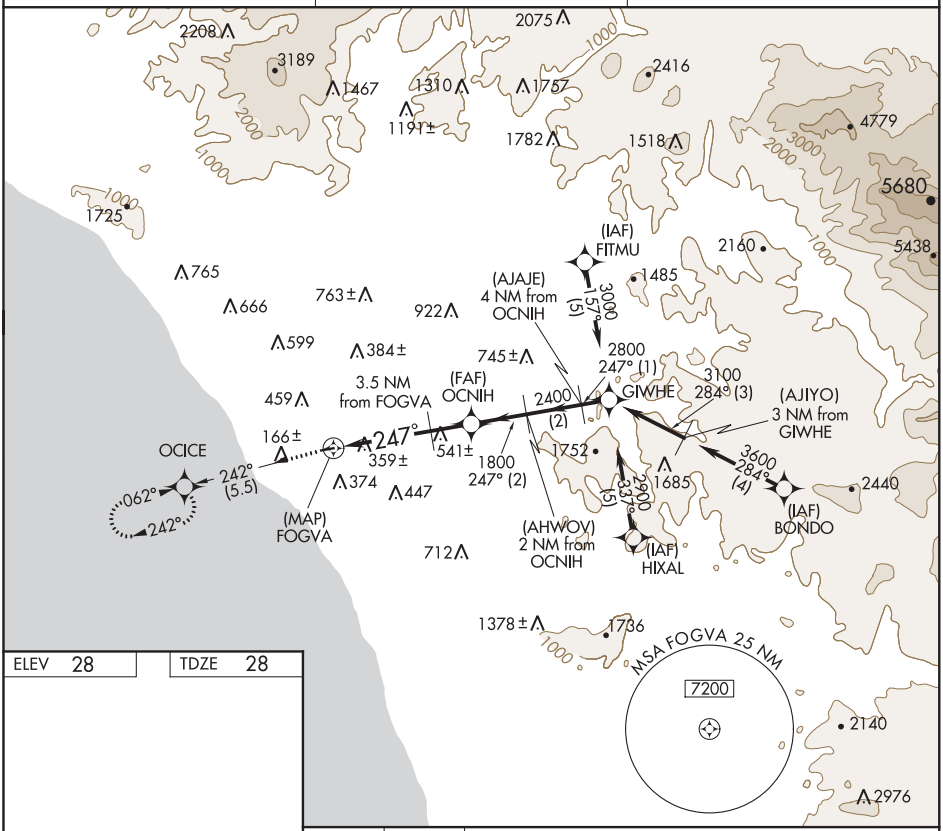
BOB MAXWELL MEMORIAL AIRFIELD (OKB)

NA

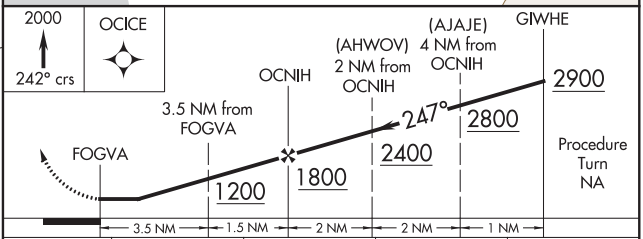
Night Landing: Rwy 6 NA.

MISSED APPROACH: Climb to 2000 via 242° course to OCICE WP and hold.

ASOS	SOCAL APP CON	UNICOM
127.8	127.3 323.0	122.725 (CTAF)



ELEV	28	TDZE	28



CATEGORY	A	B	C	D
S-24	740-1 712 (800-1)		NA	
CIRCLING	880-1 852 (900-1)	880-1¼ 852 (900-1¼)	NA	

MIRL Rwy 6-24 (L)
REIL Rwy 24

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

OCEANSIDE, CALIFORNIA | AL-5666 (FAA) | 20310

VORTAC OCN 115.3 Chan 100	APP CRS 096°	Rwy Idg N/A TDZE N/A Apt Elev 28

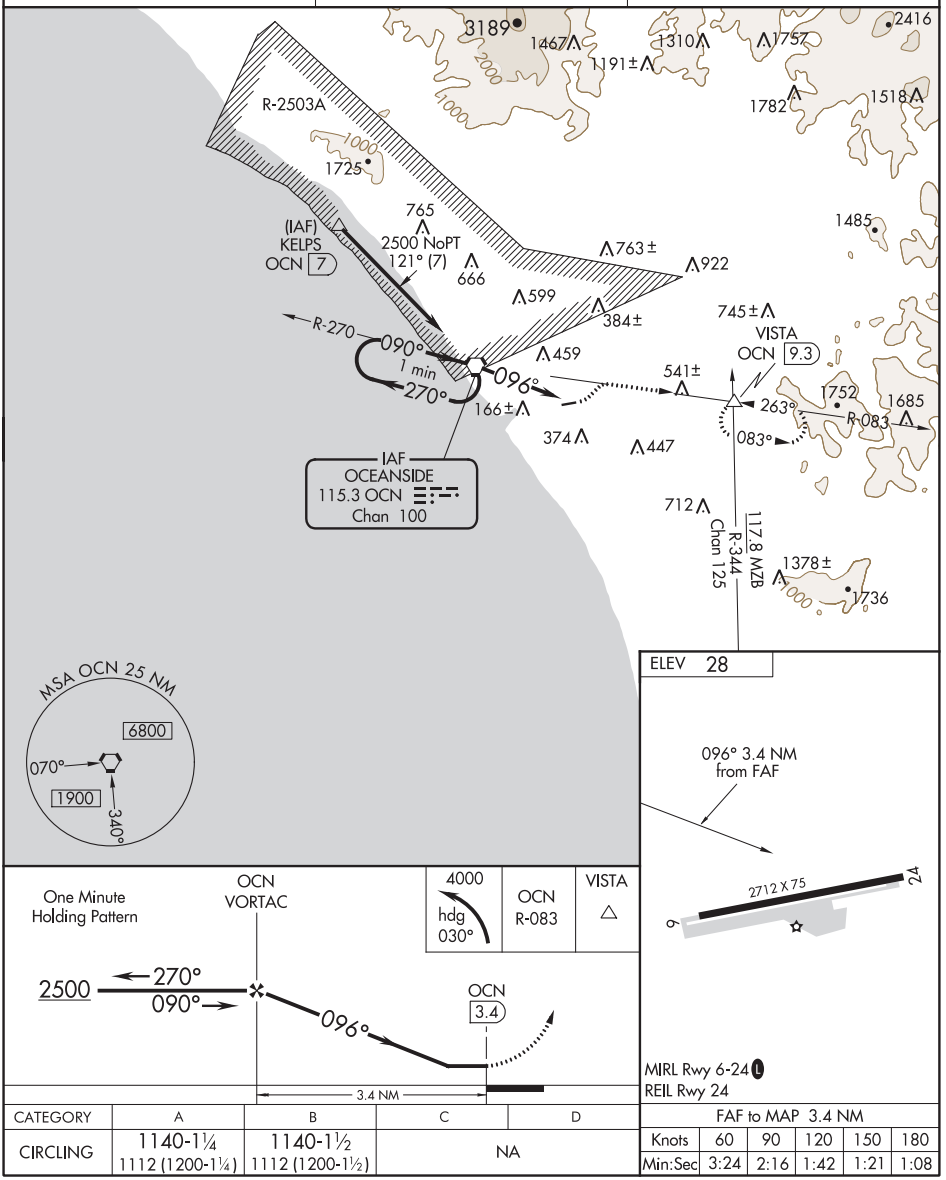
VOR-A

BOB MAXWELL MEMORIAL AIRFIELD (OKB)

Helicopter visibility reduction below 1 SM NA.
Night Landing: Rwy 6 NA.

MISSED APPROACH: Climbing left turn to 4000 via heading 030° and OCN R-083 to VISTA INT/OCN 9.3 DME and hold.

ASOS	SOCAL APP CON	UNICOM
127.8	127.3 323.0	122.725 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	1140-1¼ 1112 (1200-1¼)	1140-1½ 1112 (1200-1½)	NA	

FAF to MAP 3.4 NM					
Knots	60	90	120	150	180
Min:Sec	3:24	2:16	1:42	1:21	1:08

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

ILS or LOC RWY 8L
ONTARIO INTL (ONT)

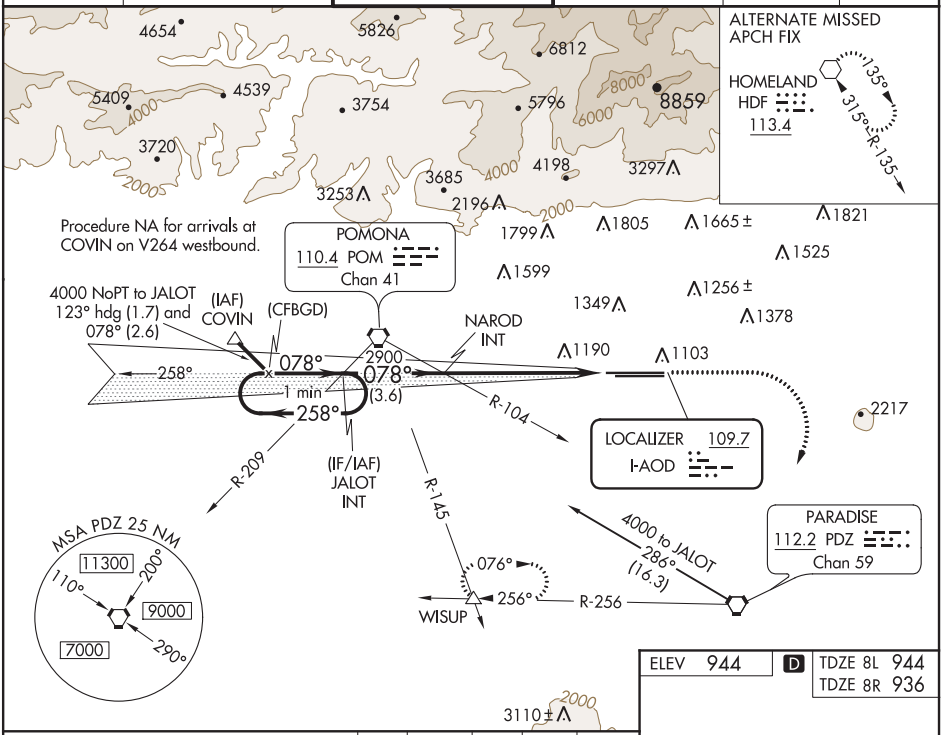
LOC I-AOD	APP CRS		8L	8R
109.7	078°	Rwy Idg	11200	10200
		TDZE	944	936
		Apt Elev	944	944

Circling NA north of Rwy 8L-26R.
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR Rwy 8L

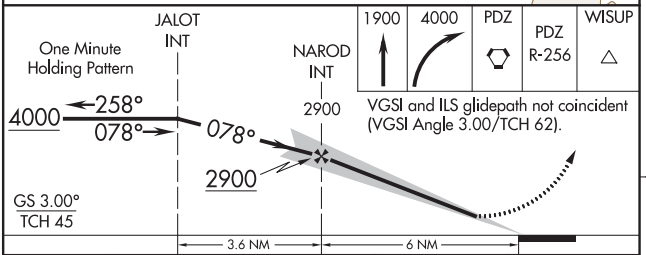
MISSED APPROACH: Climb to 1900 then climbing right turn to 4000 direct PDZ VORTAC then on PDZ R-256 to WISUP INT and hold.

D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	



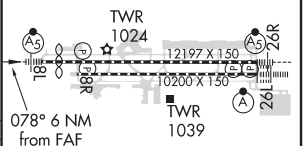
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020



CATEGORY	A	B	C	D
S-ILS 8L*	1144/24 200 (200-½)			
S-LOC 8L	1440/24 496 (500-½)		1440/50 496 (500-1)	
SIDESTEP 8R	1440-1 504 (500-1)		1440-1⅜ 504 (500-1⅜)	
C CIRCLING	1440-1 496 (500-1)		1540-1½ 596 (600-1½)	1600-2 656 (700-2)

ELEV 944 D TDZE 8L 944 TDZE 8R 936



TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

FAF to MAP 6 NM

Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

ONTARIO, CALIFORNIA

AL-965 (FAA)

20310

ILS or LOC RWY 26L

ONTARIO INTL (ONT)

LOC/DME I-TWO	APP CRS		26L	26R
111.35	258°	Rwy Idg	10200	12197
Chan 50 (Y)		TDZE	926	932
		Apt Elev	944	944

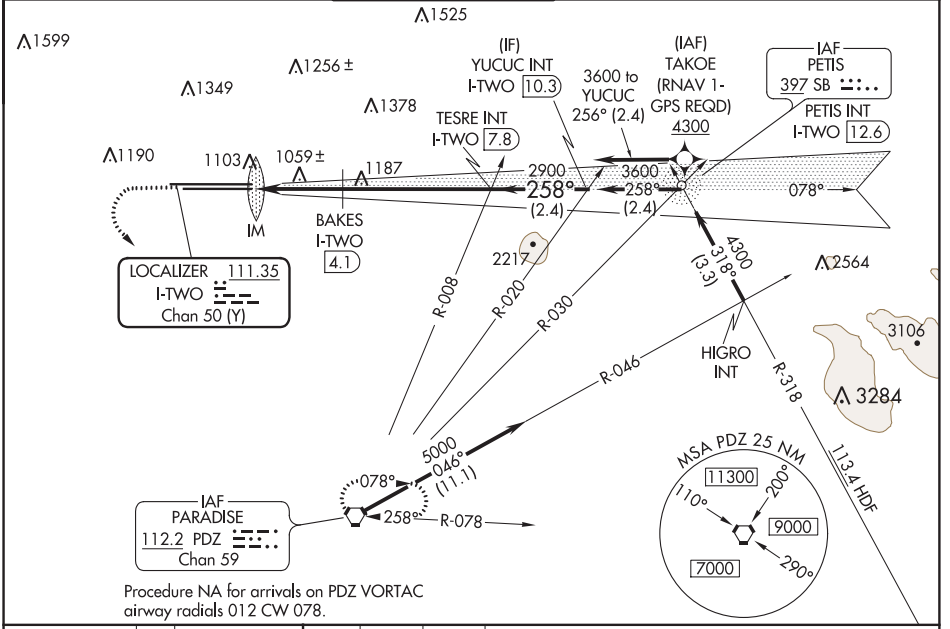
Circling NA north of Rwy 8L-26R. Inop table does not apply to Sidestep 26R Cat A. For inop ALS, increase S-LOC Rwy 26L Cat C/D and Sidestep 26R Cat C visibility to 2½ SM, and Sidestep 26R Cat B visibility to 1¼ SM, and BAKES DME minimums S-LOC 26L Cat C/D to RVR 6000.

ALSF-2 Rwy 26L (A)

MALSR Rwy 26R (A5)

MISSED APPROACH: Climb to 2200 then climbing left turn to 4000 direct PDZ VORTAC and hold.

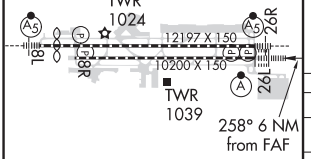
D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	



Procedure NA for arrivals on PDZ VORTAC airway radials 012 CW 078.

ELEV 944 D

TDZE 26L 926
TDZE 26R 932

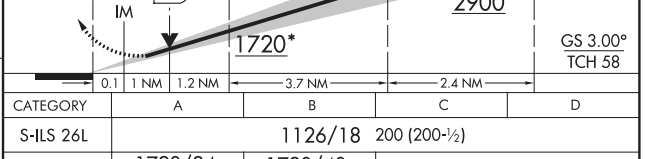


TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

FAF to MAP	6 NM				
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

2200 | 4000 | PDZ

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 74).



CATEGORY	A	B	C	D
S-ILS 26L	1126/18 200 (200-½)			
S-LOC 26L	1720/24 794 (800-½)	1720/40 794 (800-¾)	1720-1¾ 794 (800-1¾)	
SIDESTEP 26R	1720/55 788 (800-1)		1720-1¾ 788 (800-1¾)	1720-2 788 (800-2)
BAKES DME MINIMUMS				
S-LOC 26L	1340/24 414 (400-½)		1340/40 414 (400-¾)	
C CIRCLING	1720-1 776 (800-1)	1720-1¼ 776 (800-1¼)	1720-2½ 776 (800-2½)	

ONTARIO, CALIFORNIA

Amdt 8C 26MAR20

34°03'N-117°36'W

ONTARIO INTL (ONT)

ILS or LOC RWY 26L

SW-3, 05 NOV 2020 to 31 DEC 2020

ILS or LOC RWY 26R

ONTARIO INTL (ONT)

LOC/DME I-ONT 109.7 Chan 34	APP CRS 258°	Rwy Idg	26R 12197	26L 10200
		TDZE	932	926
		Apt Elev	944	944

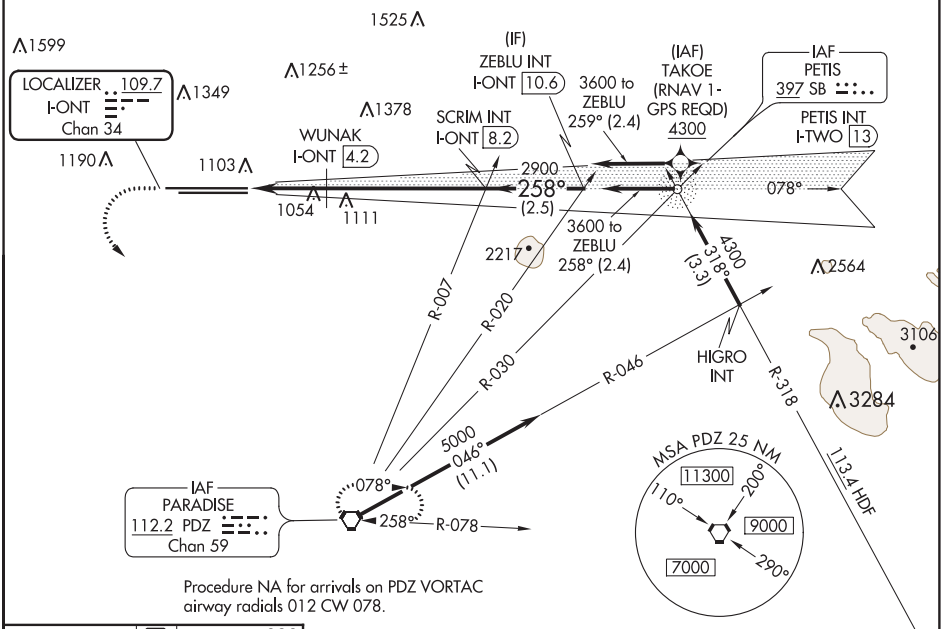
Circling NA north of Rwy 8L-26R. Inop table does not apply to Sidestep 26L Cat A. For inop ALS, increase Sidestep 26L Cat B visibility to 1¼ SM and Sidestep 26L Cat C to 2½ SM. #RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR Rwy 26R

ALSF-2 Rwy 26L

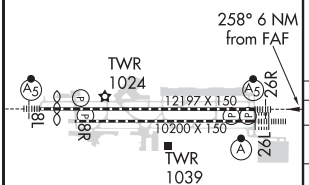
MISSED APPROACH: Climb to 2200 then climbing left turn to 4000 direct PDZ VORTAC and hold.

D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	



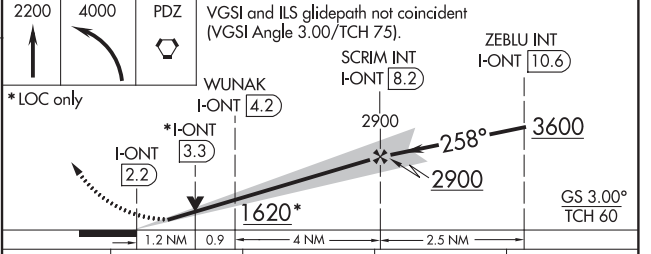
Procedure NA for arrivals on PDZ VORTAC airway radials 012 CW 078.

ELEV 944 D TDZE 26R 932 TDZE 26L 926



TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

FAF to MAP	6 NM				
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00



CATEGORY	A	B	C	D
S-ILS 26R#	1132/24	200 (200-½)		
S-LOC 26R	1620/24	688 (700-½)	1620-1½	688 (700-1½)
SIDESTEP 26L	1720/55	794 (800-1)	1720-1¾ 794 (800-1¾)	1720-2 794 (800-2)
WUNAK FIX MINIMUMS (DME REQUIRED)				
S-LOC 26R	1360/24	428 (500-½)	1360/40	428 (500-¾)
C CIRCLING	1620-1	676 (700-1)	1620-2 676 (700-2)	1620-2¼ 676 (700-2¼)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

ONTARIO, CALIFORNIA | AL-965 (FAA) | 20310

LOC/DME I-TWO	APP CRS	Rwy Idg	10200
111.35	258°	TDZE	926
Chan 50 (Y)		Apt Elev	944

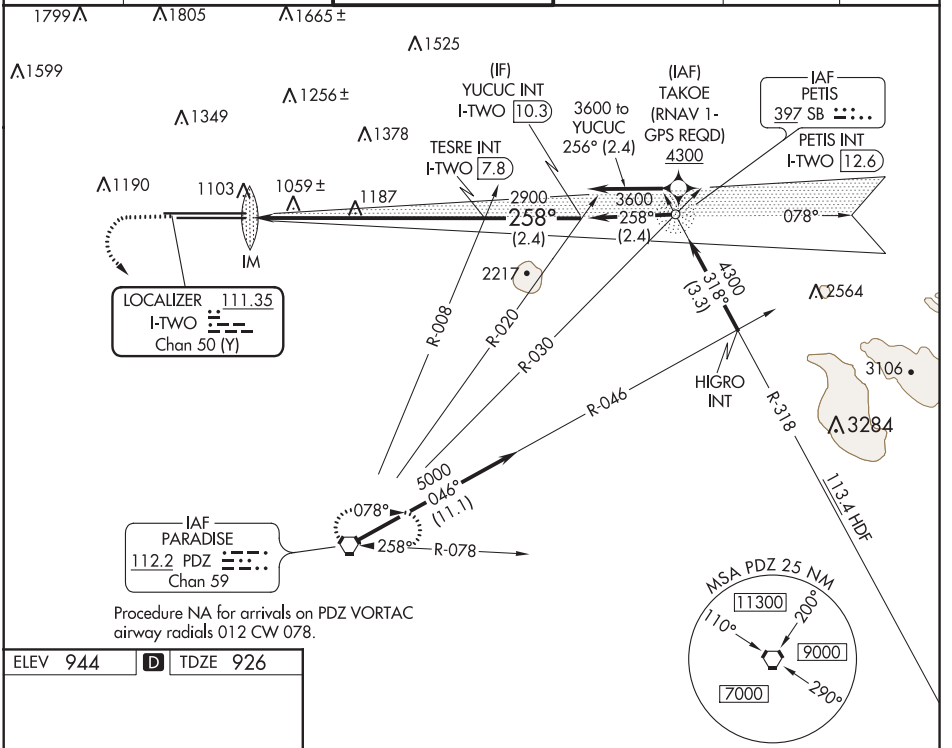
ILS RWY 26L (CAT II & III)

ONTARIO INTL (ONT)

ALSF-2

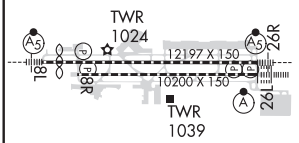
MISSED APPROACH: Climb to 2200 then climbing left turn to 4000 direct PDZ VORTAC and hold.

D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	

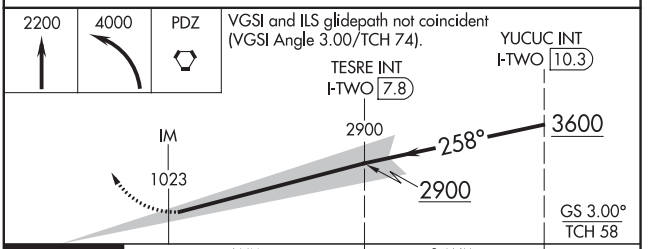


Procedure NA for arrivals on PDZ VORTAC airway radials 012 CW 078.

ELEV 944 | D | TDZE 926



TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L



CATEGORY	A	B	C	D
S-ILS 26L	CAT II RA 103/12 100 DA 1026			
S-ILS 26L	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ONTARIO, CALIFORNIA
Amdt 8C 26MAR20

34°03'N-117°36'W

ONTARIO INTL (ONT)

ILS RWY 26L (CAT II & III)

SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	11200
078°	TDZE	944
	Apt Elev	944

RNAV (RNP) Z RWY 8L

ONTARIO INTL (ONT)

For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F).

MALSR

MISSED APPROACH: Climb to 5300 direct CABUB on track 161° to DLIUS and hold, continue climb-in-hold to 5300.

D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	

GPS REQUIRED

3253 2196 ICWEB 180K (RNP 0.30) 1799 1805 PRMNT 1665± (IF) OUTCH 1821 1525 5600 258° (6.6) (IAF) NUTZO 6000 (RF REQD) 3700 258° (3.2) 4500 258° (3.9) 1599 1256± 1349 1378 2800 (3.6) UGIVE 2000 078° (3) 2000 (2.5) 1190 1103 2900 078° (3.4) (IAF) JALOT (RNP 0.60) (IF) LEAGE 078° (3.2) RW08L CABUB (FAF) LOGJM 2000 (3.4) IMANE 190K (RNP 0.30) 2900 348° (1.4) UNLAY (RNP 0.70) 3300 (3.1) COLTN 4200 267° (3.5) (IF) RUKKY 5100 267° (4) (IAF) EFFXX 6000 210K (RF REQD) 161° (8.4) 2217 5 NM 080° 260° DLIUS

MSA RW08L 25 NM 11300

2000 3110±

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 62).

5300	CABUB	tr 161°	DLIUS

LOGJM 2000 2000 078° RW08L GP 3.00° TCH 45 See planview for multiple IF locations. 3.2 NM

CATEGORY	A	B	C	D
RNP 0.30 DA	1490-1⅜	546 (600-1⅜)		

AUTHORIZATION REQUIRED

ELEV 944 D TDZE 944

TWR 1024 18L 18R 12197 X 150 10200 X 150 26L 26R TWR 1039 078° to RW08L

TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ONTARIO, CALIFORNIA | AL-965 (FAA) | 19283

APP CRS	Rwy Idg	10200
078°	TDZE	936
	Apt Elev	944

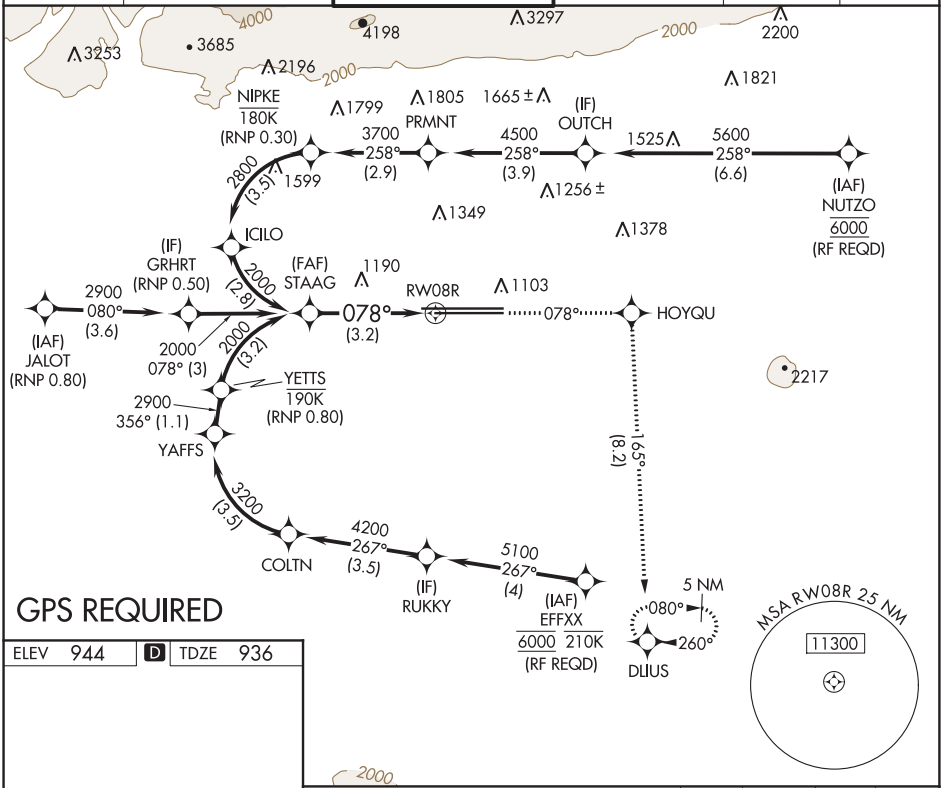
RNAV (RNP) Z RWY 8R

ONTARIO INTL (ONT)

NA — For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F).

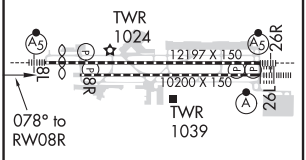
MISSED APPROACH: Climb to 5300 on track 078° to HOYQU and on track 165° to DLIUS and hold, continue climb-in-hold to 5300.

D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	



GPS REQUIRED

ELEV 944 | D | TDZ 936

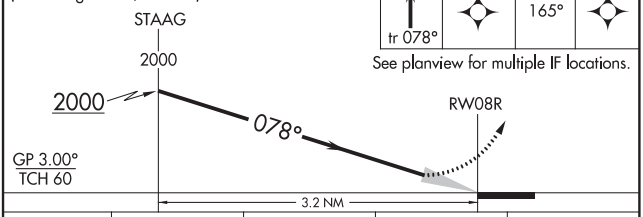


TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 65).

5300 tr 078°	HOYQU	tr 165°	DLIUS

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.30 DA	1342-1⅜	406 (400-1⅜)		

AUTHORIZATION REQUIRED

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	10200
258°	TDZE	926
	Apt Elev	944

RNAV (RNP) Z RWY 26L

ONTARIO INTL (ONT)

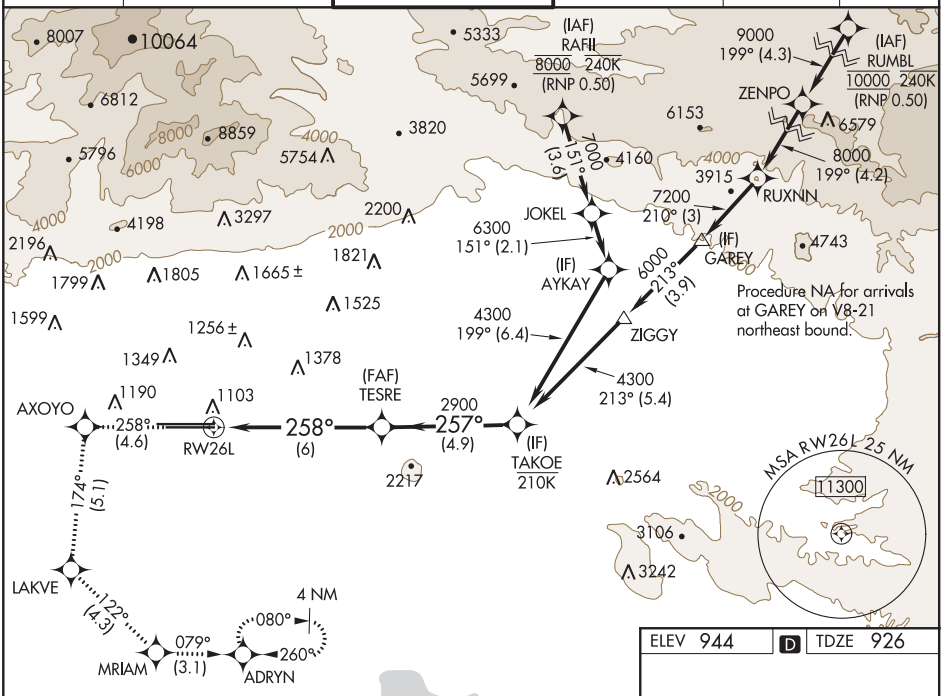
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below 1°C or above 54°C. For inop ALS, increase RNP 0.15 visibility all Cats to RVR 4500, RNP 0.18 visibility all Cats to RVR 5500, RNP 0.30 visibility all Cats to RVR 6000.

ALSF-2

MISSED APPROACH: Climb to 3400 on track 258° to AXOYO and track 174° to LAKVE and track 122° to MRIAM and track 079° to ADRYN and hold.

D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	



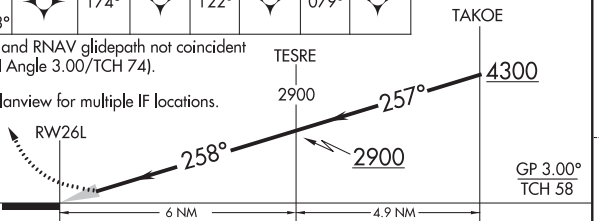
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

3400 ↑ tr 258°	AXOYO	tr 174°	LAKVE	tr 122°	MRIAM	tr 079°	ADRYN

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 74).

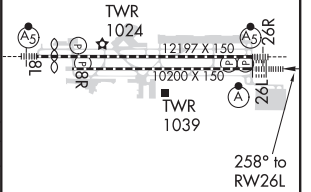
See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.15 DA	1218/24	292 (300-½)		
RNP 0.18 DA	1274/30	348 (400-⅝)		
RNP 0.30 DA	1340/40	414 (400-¾)		

AUTHORIZATION REQUIRED

ELEV 944 D TDZE 926



TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

ONTARIO, CALIFORNIA | AL-965 (FAA) | 19339

APP CRS	Rwy Idg	12197
258°	TDZE	932
	Apt Elev	944

RNAV (RNP) Z RWY 26R

ONTARIO INTL (ONT)

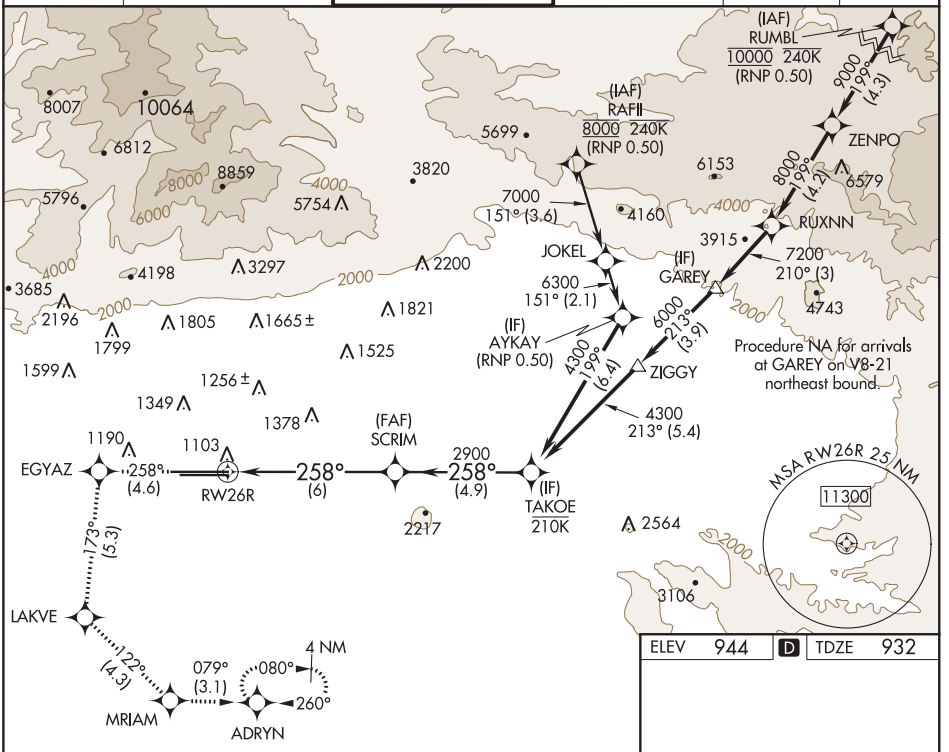
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below 1°C or above 54°C. For inop ALS, increase RNP 0.30 visibility all Cats to RVR 6000.

MALSR

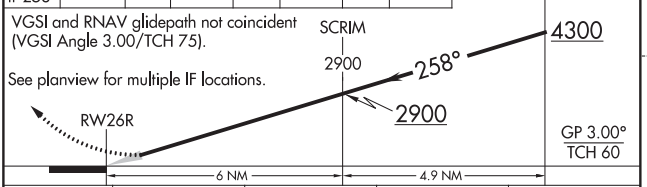
MISSED APPROACH: Climb to 3400 on track 258° to EGYAZ and track 173° to LAKVE and track 122° to MRIAM and track 079° to ADRYN and hold.

D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	



ELEV 944 D TDZE 932

3400 tr 258°	EGYAZ	tr 173°	LAKVE	tr 122°	MRIAM	tr 079°	ADRYN

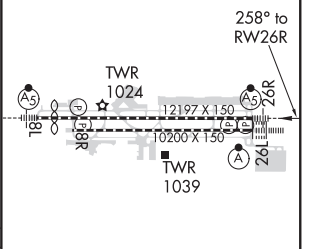


VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).

See planview for multiple IF locations.

CATEGORY	A	B	C	D
RNP 0.12 DA	1265/26	333 (400-½)		
RNP 0.30 DA	1340/40	408 (400-¾)		

AUTHORIZATION REQUIRED



TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS		
CH **45807**	**078°**	Rwy Idg	**11200**
W08B		TDZE	**944**
		Apt Elev	**944**

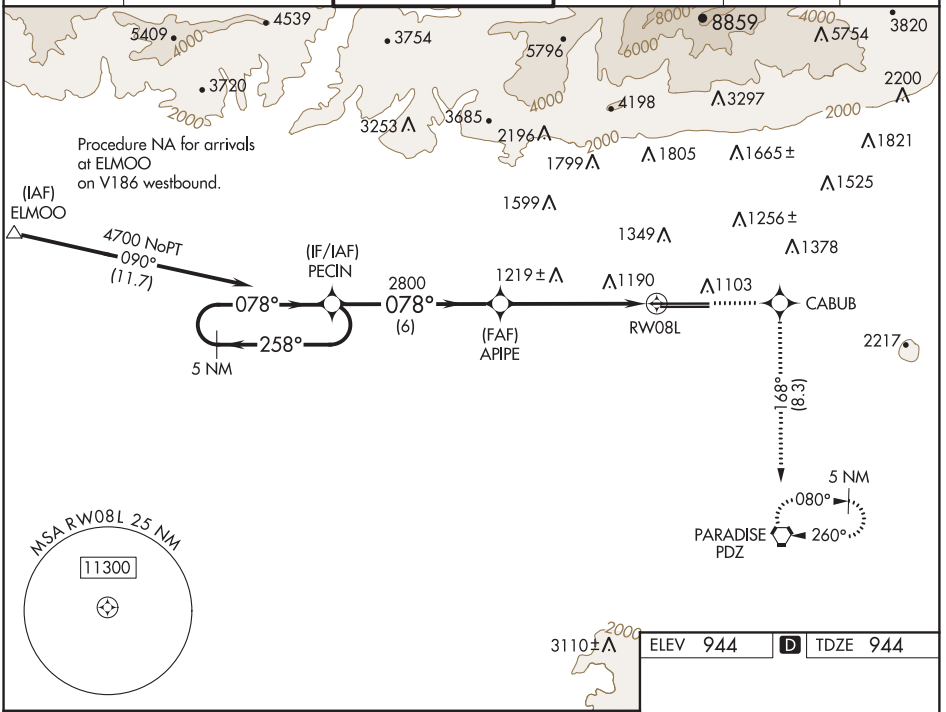
RNAV (GPS) Y RWY 8L
ONTARIO INTL (ONT)

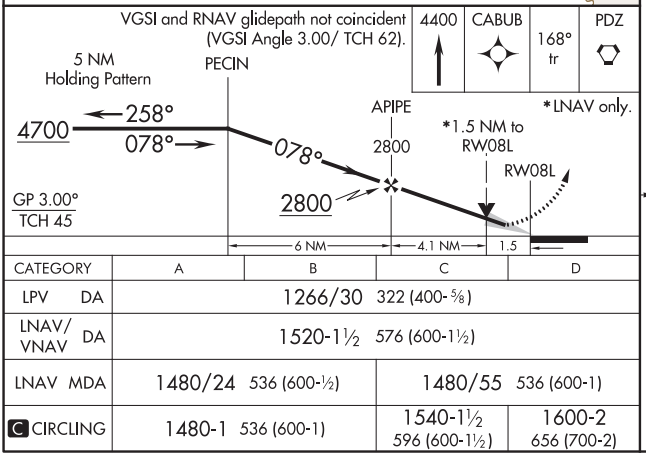
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). Circling NA north of Rwy 8L-26R. DME/DME RNP -0.3 NA. For inoperative MALSR increase LPV visibility all Cats to RVR 6000.

MALSR

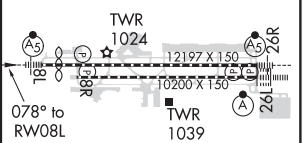
MISSED APPROACH: Climb to 4400 direct CABUB and on track 168° to PDZ VORTAC and hold, continue climb-in-hold to 4700.

D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	**127.0 318.2**	**120.6 360.775**	**121.9 257.8**	**118.1**	





CATEGORY	A	B	C	D
LPV DA	1266/30 322 (400-⅝)			
LNAV/VNAV DA	1520-1½ 576 (600-1½)			
LNAV MDA	1480/24 536 (600-½)		1480/55 536 (600-1)	
C CIRCLING	1480-1 536 (600-1)		1540-1½ 596 (600-1½)	1600-2 656 (700-2)



TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

ONTARIO, CALIFORNIA AL-965 (FAA) 19283

WAAS	APP CRS	Rwy Idg	10200
CH 70329	078°	TDZE	936
W08A		Apt Elev	944

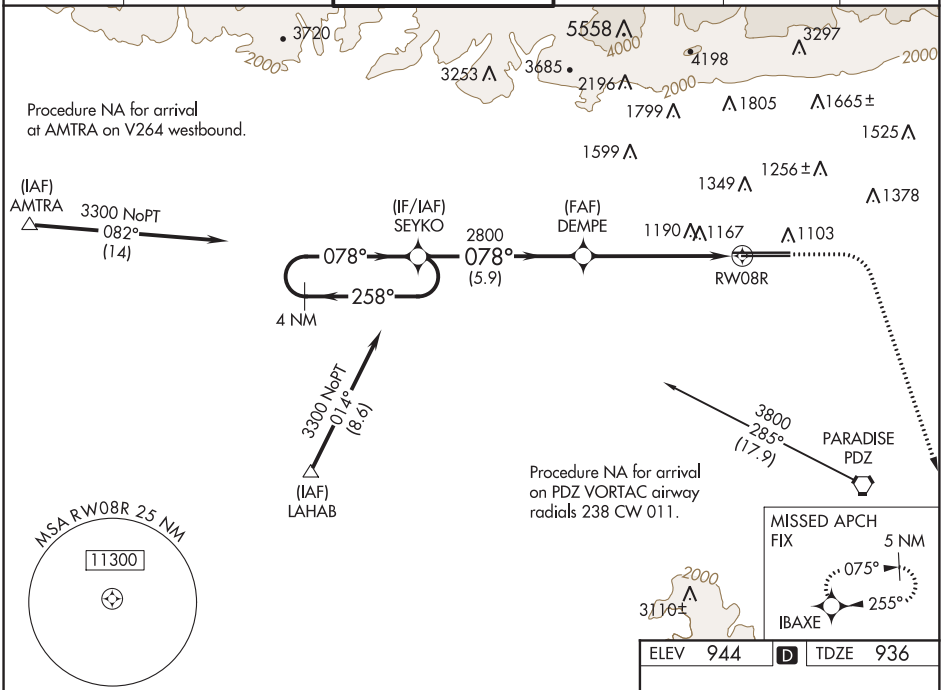
RNAV (GPS) Y RWY 8R

ONTARIO INTL (ONT)

For uncompensated Baro-VNAV systems, procedure NA below 2° C (36°F) or above 54°C (130°F). Circling NA north of Rwy 8L-26R. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 1500 then climbing right turn to 5000 direct IBAXE and hold, continue climb-in-hold to 5000.

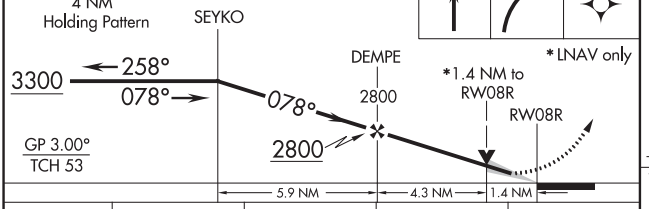
D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	

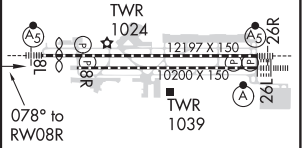


ELEV 944 D TDZE 936

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 65)

1500 5000 IBAXE





CATEGORY	A	B	C	D
LPV DA	1220/45 284 (300-⅞)			
LNAV/VNAV DA	1494-1⅞ 558 (600-1⅞)			
LNAV MDA	1440/55 504 (500-1)		1440-1⅜ 504 (500-1⅜)	
C CIRCLING	1440-1 496 (500-1)		1540-1½ 596 (600-1½)	1600-2 656 (700-2)

TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS	Rwy Idg	10200
CH 90407	258°	TDZE	926
W26B		Apt Elev	944

RNAV (GPS) Y RWY 26L

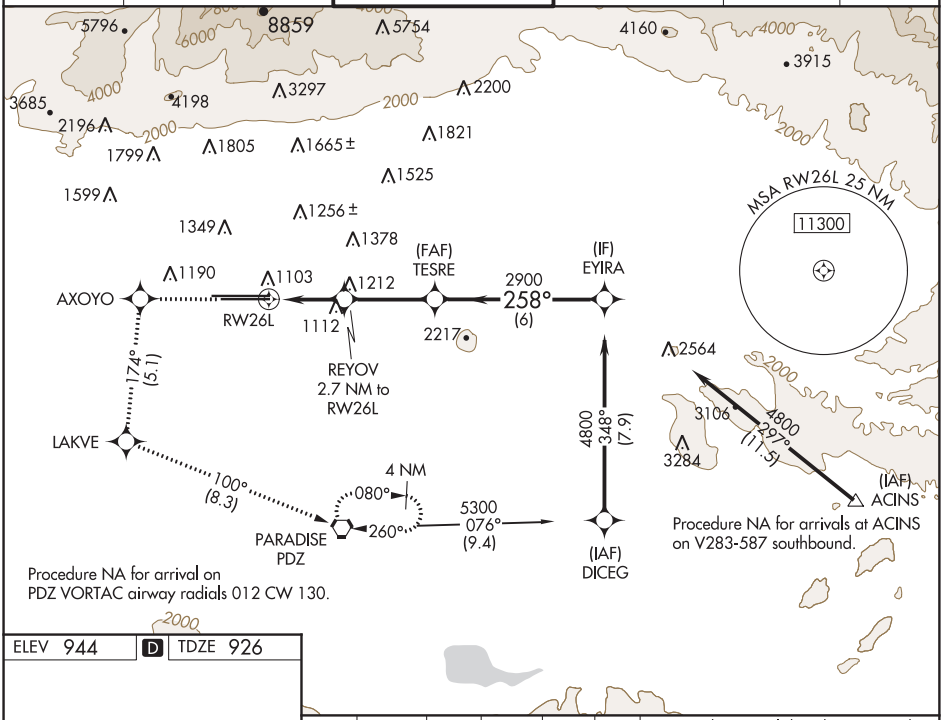
ONTARIO INTL (ONT)

For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). Circling NA north of Rwy 8L-26R. DME/DME RNP-0.3 NA.

ALSF-2

MISSED APPROACH: Climb to 3700 direct AXOYO and on track 174° to LAKVE and on track 100° to PDZ VORTAC and hold.

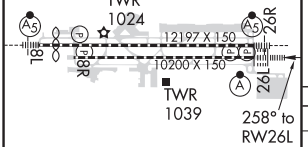
D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	



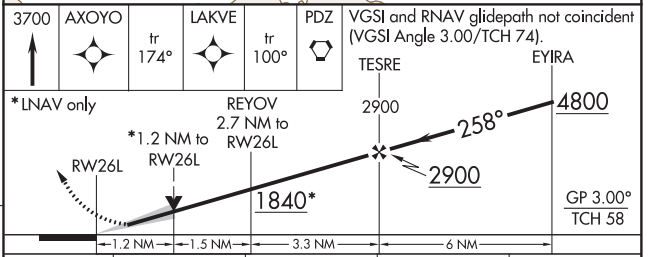
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ELEV 944 | D | TDZE 926



TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L



CATEGORY	A	B	C	D
LPV DA	1126/24 200 (200-½)			
LNAV/VNAV DA	1264/30 338 (400-⅝)			
LNAV MDA	1380/24 454 (500-½)		1380/45 454 (500-⅞)	
C CIRCLING	1400-1 456 (500-1)		1500-1½ 556 (600-1½)	1540-2 596 (600-2)

ONTARIO, CALIFORNIA | AL-965 (FAA) | 19283

RNAV (GPS) Y RWY 26R

ONTARIO INTL (ONT)

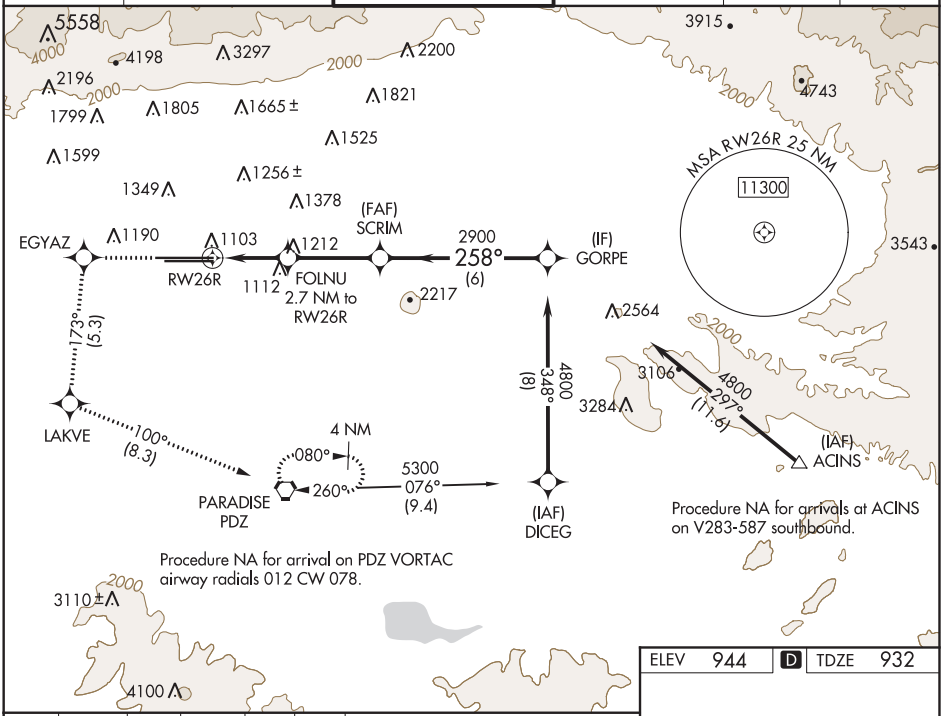
WAAS CH 53406 W26A	APP CRS 258°	Rwy Idg 12197 TDZE 932 Apt Elev 944

For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). Circling NA north of Rwy 8L-26R. DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 3700 direct EGYAZ and on track 173° to LAKVE and on track 100° to PDZ VORTAC and hold.

D-ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL	CPDLC
124.25	127.0 318.2	120.6 360.775	121.9 257.8	118.1	

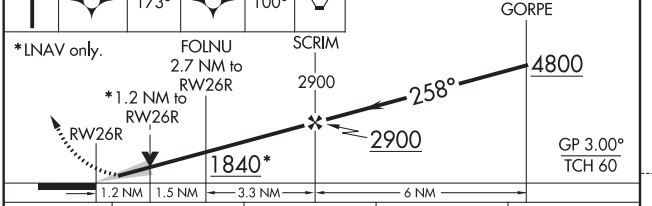


SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

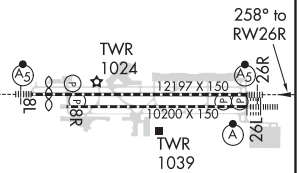
3700	EGYAZ	tr 173°	LAKVE	tr 100°	PDZ

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).



CATEGORY	A	B	C	D
LPV DA	1132/24 200 (200-½)			
LNAV/VNAV DA	1264/30 332 (400-⅝)			
LNAV MDA	1380/24 448 (500-½)		1380/45 448 (500-⅞)	
C CIRCLING	1400-1 456 (500-1)		1500-1½ 556 (600-1½)	1540-2 596 (600-2)

ELEV 944 | D | TDZE 932



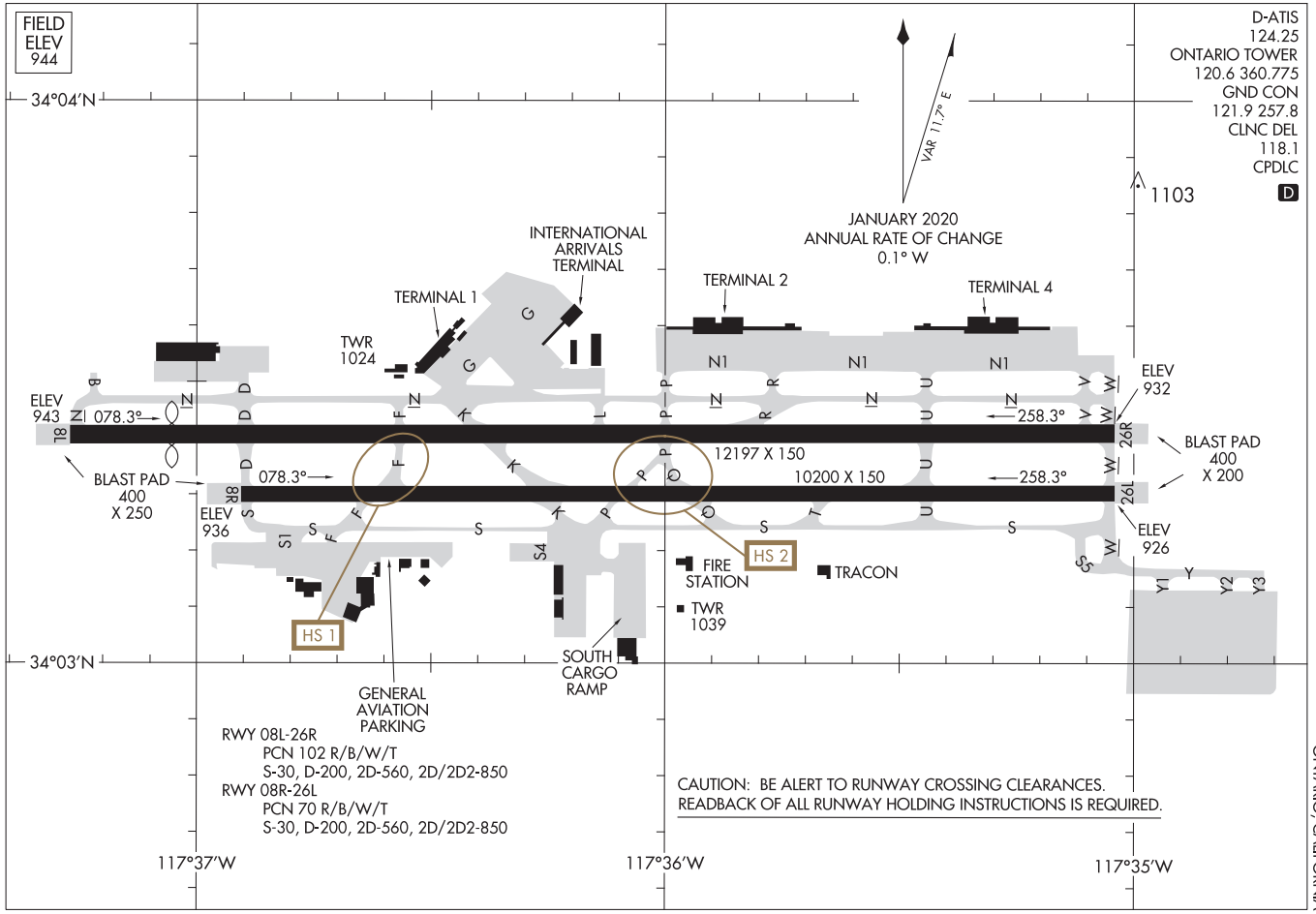
TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

ONTARIO, CALIFORNIA
Amdt 2 27APR17

34°03'N-117°36'W

ONTARIO INTL (ONT)

RNAV (GPS) Y RWY 26R



AIRPORT DIAGRAM
20086

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

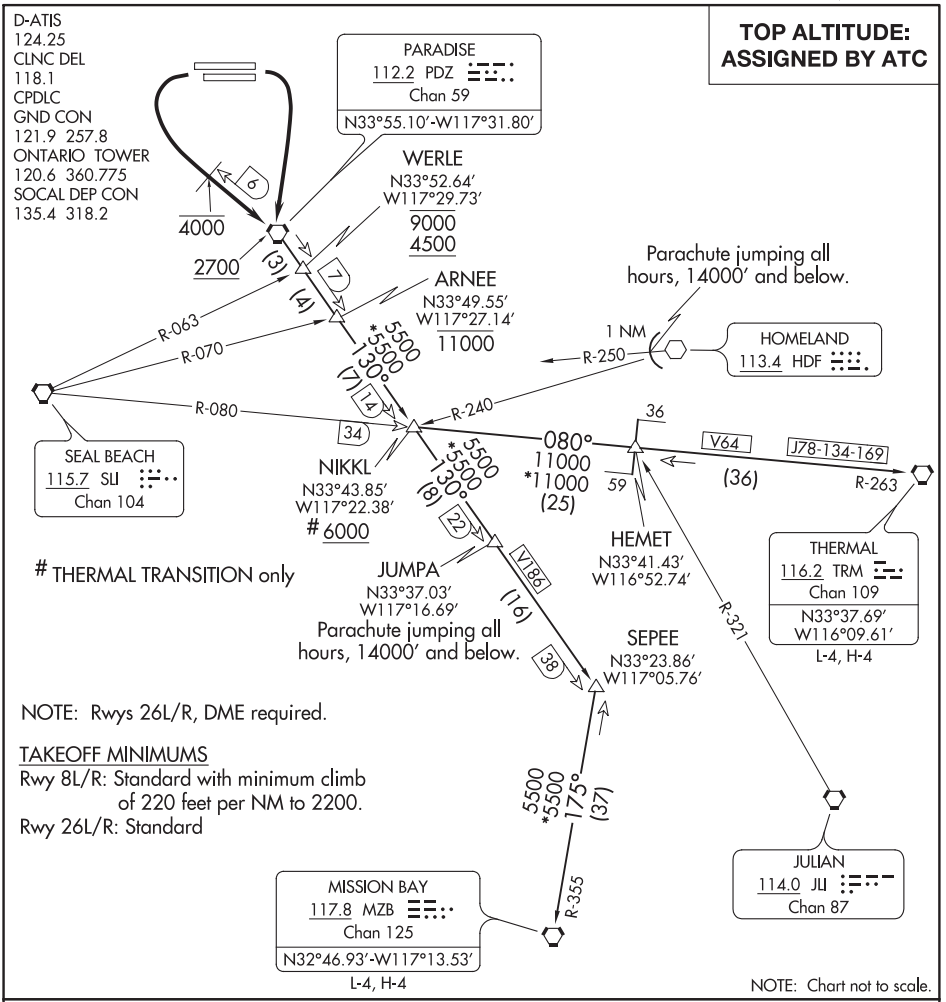
AL-965 (FAA)

(NIKKL1.PDZ) 20310

NIKKL ONE DEPARTURE

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R: Climbing right turn direct PDZ VORTAC. Thence. . . .

TAKEOFF RUNWAYS 26L/R: Climbing left turn direct PDZ VORTAC, cross 6 DME northwest of PDZ VORTAC at or below 4000'. Thence. . . .

. . . .on (assigned transition) or (assigned route). Cross PDZ VORTAC at or above 2700. Expect filed altitude 10 minutes after departure.

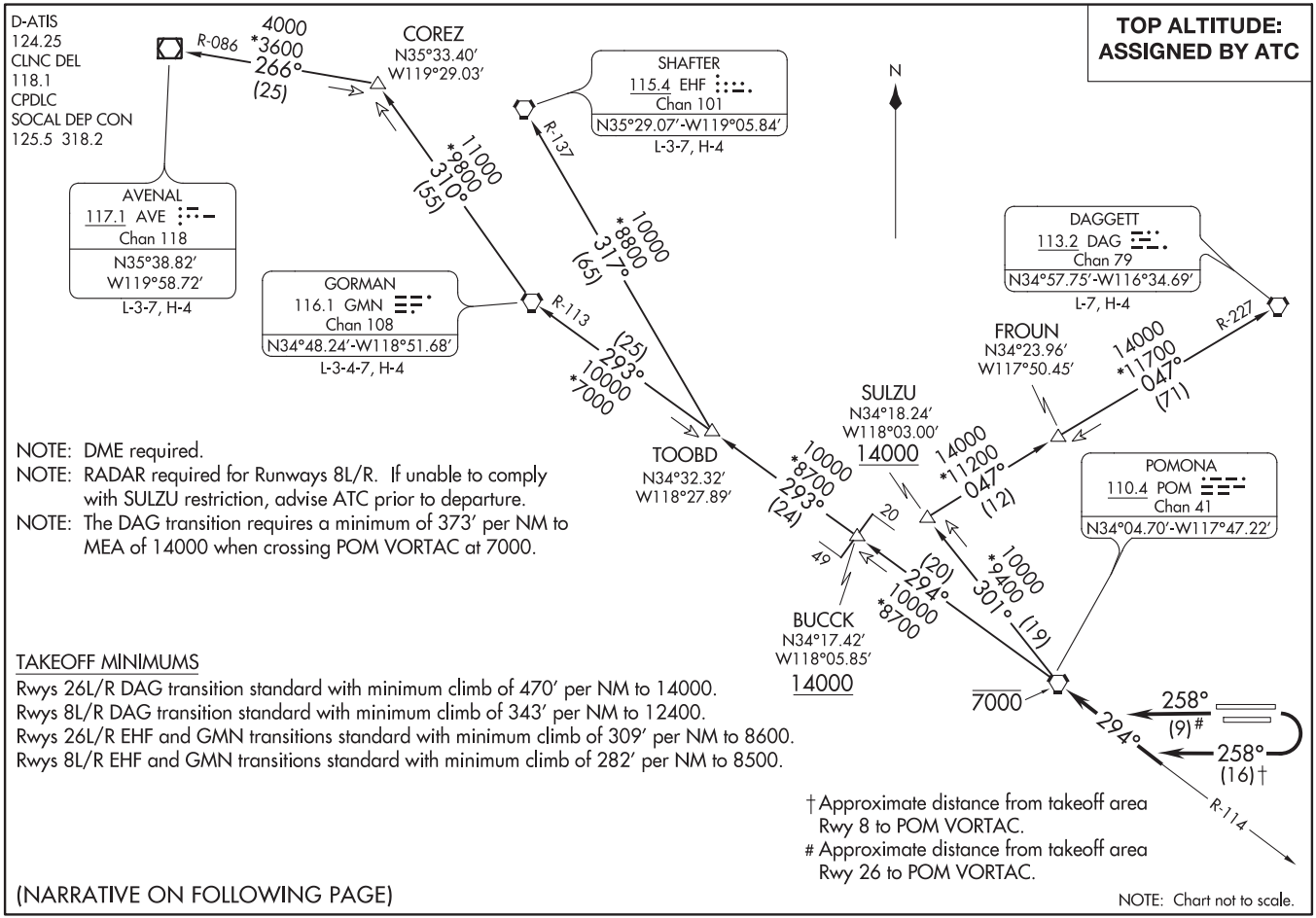
MISSION BAY TRANSITION (NIKKL1.MZB): From over PDZ VORTAC on PDZ R-130 and MZB R-355 to MZB VORTAC.

THERMAL TRANSITION (NIKKL1.TRM): From over PDZ VORTAC on PDZ R-130, SLI R-080 and TRM R-263 to TRM VORTAC.

POMONA ONE DEPARTURE

(POM1.POM) 03JAN19

ONTARIO, CALIFORNIA
ONTARIO INTL (ONT)



(POM1.POM) 19003

POMONA ONE DEPARTURE

ONTARIO, CALIFORNIA
ONTARIO INTL (ONT)

AL-965 (FAA)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R: Climbing right turn heading 258° to intercept and proceed on POM R-114 to POM VORTAC, cross POM VORTAC at or below 7000. Thence. . . .
TAKEOFF RUNWAYS 26L/R: Climb heading 258° to intercept and proceed on POM R-114 to POM VORTAC, cross POM VORTAC at or below 7000. Thence. . . .

. . . .on (transition). Expect filed altitude ten minutes after departure.

AVENAL TRANSITION (POM1.AVE): From over POM VORTAC on POM R-294 to BUCCK, then on GMN R-113 to GMN VORTAC, then on GMN R-310 to COREZ, then on AVE R-086 to AVE VOR/DME.
DAGGETT TRANSITION (POM1.DAG): From over POM VORTAC on POM R-301 to SULZU then on DAG R-227 to DAG VORTAC.
GORMAN TRANSITION (POM1.GMN): From over POM VORTAC on POM R-294 to BUCCK, then on GMN R-113 to GMN VORTAC.
SHAFTER TRANSITION (POM1.EHF): From over POM VORTAC on POM R-294 to BUCCK, then on GMN R-113 to TOOBD, then on EHF R-137 to EHF VORTAC.

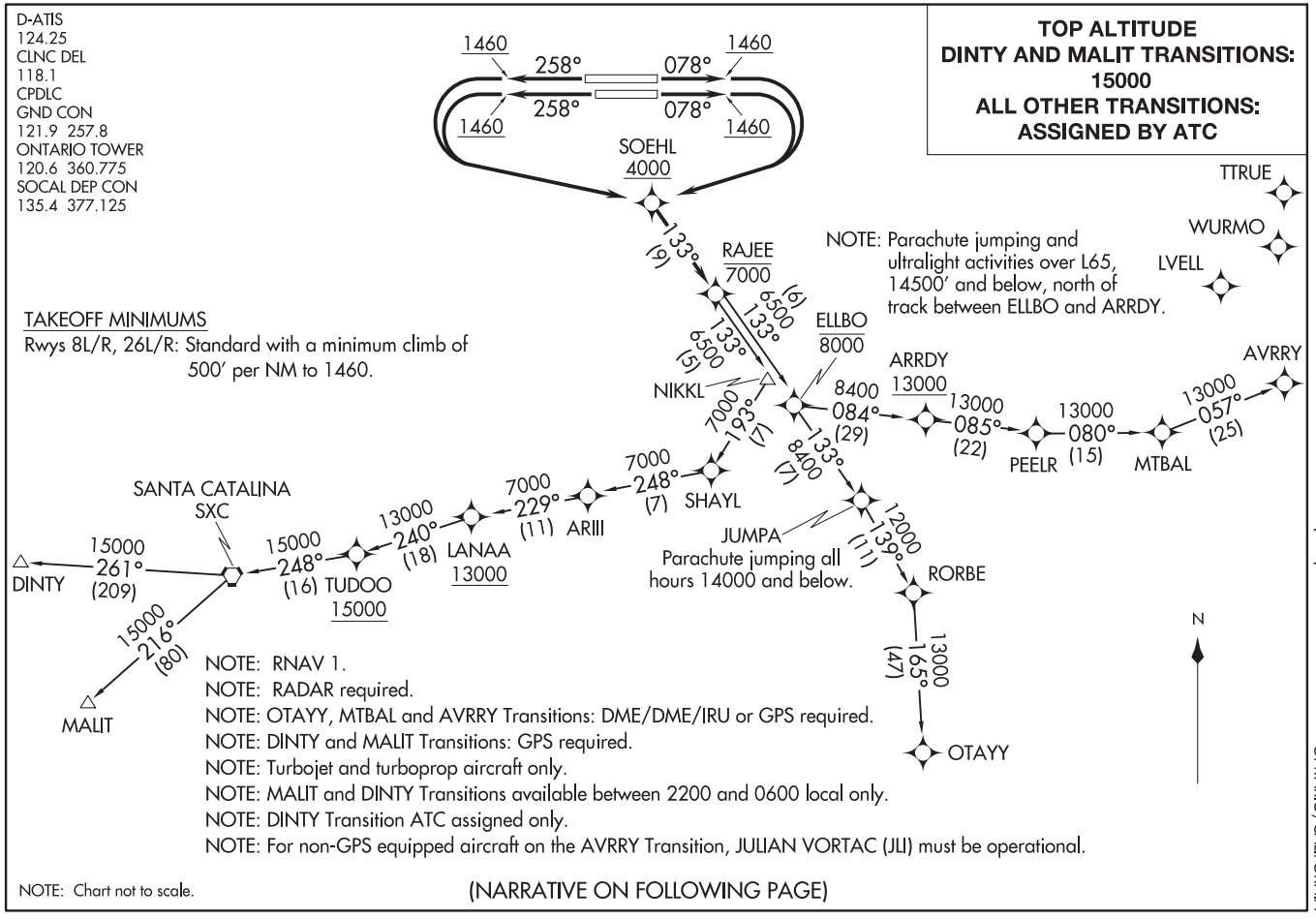
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

RAJEE THREE DEPARTURE (RNAV)

(RAJEE3.RAJEE) 01FEB18

ONTARIO, CALIFORNIA
ONTARIO INTL (ONT)



(RAJEE3.RAJEE) 18032

RAJEE THREE DEPARTURE (RNAV)

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R: Climb heading 078° to 1460, then right turn direct to cross SOEHL at or above 4000, then on track 133° to cross RAJEE at or below 7000, thence . . . .

TAKEOFF RUNWAYS 26L/R: Climb heading 258° to 1460, then left turn direct to cross SOEHL at or above 4000, then on track 133° to cross RAJEE at or below 7000, thence . . . .

. . . . on transition. DINTY and MALIT transitions: Maintain 15000. All other transitions: maintain ATC-assigned altitude. Expect higher altitude 10 minutes after departure.

AVRRY TRANSITION (RAJEE3.AVRRY)

DINTY TRANSITION (RAJEE3.DINTY)

MALIT TRANSITION (RAJEE3.MALIT)

MTBAL TRANSITION (RAJEE3.MTBAL)

OTAYY TRANSITION (RAJEE3.OTAYY)

SW-3, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE:
FL230
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: MISEN transition restricted to aircraft landing LAS terminal area.
NOTE: HAILO/BEALE/YELAH transition ATC only.
NOTE: Maintain at or below 250K unless otherwise directed by ATC.
D-ATIS 124.25
CLNC DEL 118.1
CPDLC
GND CON 121.9 257.8
ONTARIO TOWER 120.6 360.775
SOCAL DEP CON 125.5 349.0
COREZ
SHAFTER EHF
MDWAY
SHORS
TUNAY
NLAND 14000
LIVVI 14000
BROOQ 12000
GUNNR
ARRMY
HAILO
MISEN
NNAVY
YELAH
ARCUS
XBBOX 17000
BLAZN
WYZEE
BEALE
LAS VEGAS LAS
SNSHN
POMONA POM 8000
DINNK
LEESI 5000
TAKEOFF MINIMUMS
Rwys 8L/R, 26L/R: Standard with minimum climb of 500' per NM to 1460, then a minimum climb of 400' per NM to 11200.
(NARRATIVE ON FOLLOWING PAGE)
N
NOTE: Chart not to scale.

(SNSHN5.SNSHN) 20254

SNSHN FIVE DEPARTURE (RNAV)

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R: Climb on heading 078° to 1460 at or below 210K, then right turn direct to cross LEESI at or above 5000, then on track 285° to cross POM VORTAC at or below 8000, then on track 300° to SNSHN, thence. . . .

TAKEOFF RUNWAYS 26L/R: Climb on heading 258° to 1460, then direct DINNK, then on track 274° to cross POM VORTAC at or below 8000, then on track 300° to SNSHN, thence. . . .

. . . .on (transition) maintain FL230, expect filed altitude 10 minutes after departure.

BEALE TRANSITION (SNSHN5.BEALE)

COREZ TRANSITION (SNSHN5.COREZ)

HAILO TRANSITION (SNSHN5.HAILO)

LAS VEGAS TRANSITION (SNSHN5.LAS)

MISEN TRANSITION (SNSHN5.MISEN)

SHAFTER TRANSITION (SNSHN5.EHF)

YELAH TRANSITION (SNSHN5.YELAH)

LOC I-OXR	APP CRS	Rwy Idg	5500
108.7	256°	TDZE	44
		Apt Elev	45

ILS or LOC RWY 25

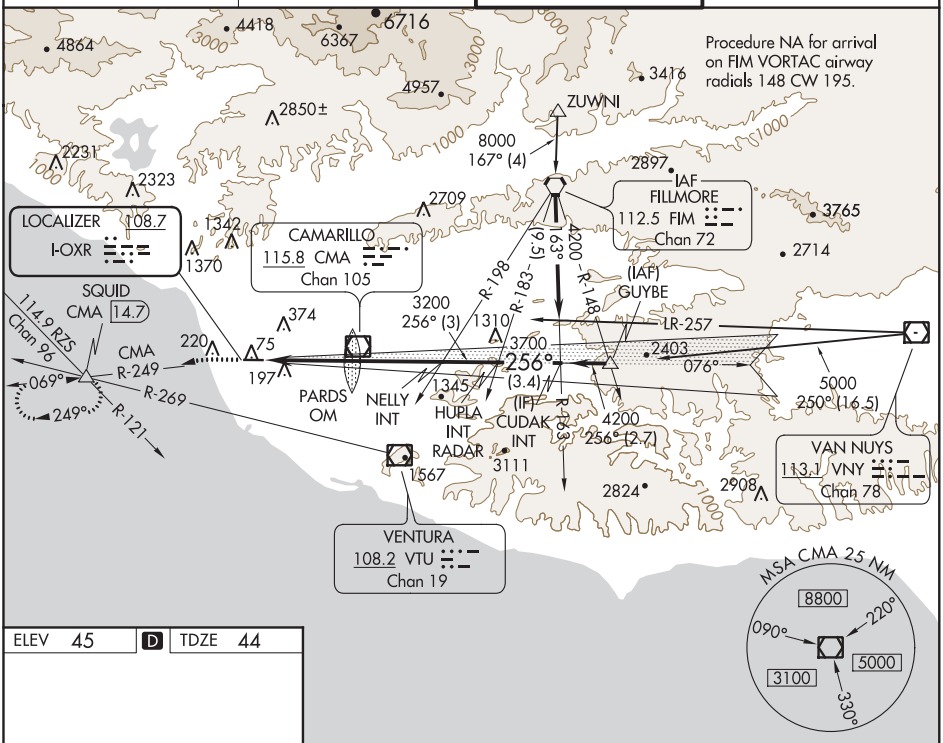
OXNARD (OXR)

T A Rwy 25 helicopter visibility reduction below ¾ SM NA. Autopilot coupled approach NA below 867. Inop table does not apply. When local altimeter setting not received, use Camarillo altimeter setting and increase S-ILS 25 DA to 312 and all MDA 20 feet, increase S-LOC 25 Cat C/D visibility ⅛ mile, and Circling Cat C visibility ⅛ mile, Cat D ¼ mile.

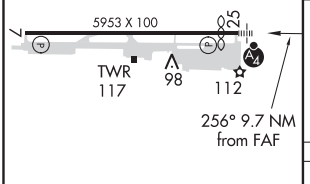
MALSF

MISSED APPROACH: Climb to 520 then climbing left turn to 2000 on CMA VOR/DME R-249 to SQUID INT/14.7 DME and hold.

ATIS	POINT MUGU APP CON ★	OXNARD TOWER ★	GND CON
118.05	124.7 335.5	134.95 (CTAF) L 257.8	121.9

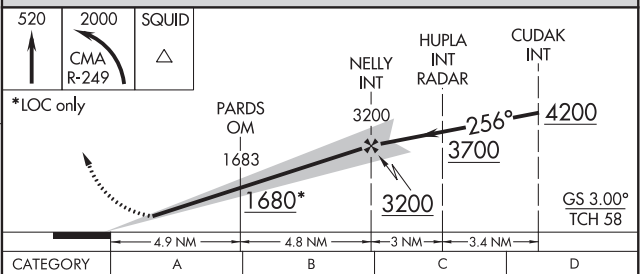


ELEV 45	D	TDZE 44



REIL Rwy 7 L
MIRL Rwy 7-25 L

FAF to MAP 9.7 NM					
Knots	60	90	120	150	180
Min:Sec	9:42	6:28	4:51	3:53	3:14



CATEGORY	A	B	C	D
S-ILS 25	294-1 250 (300-1)			
S-LOC 25	580-1 536 (600-1)		580-1½ 536 (600-1½)	
CIRCLING	580-1 535 (600-1)		580-1½ 535 (600-1½)	700-2 655 (700-2)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

OXNARD, CALIFORNIA | AL-674 (FAA) | 18088

WAAS CH 72623 W07A	APP CRS 075°	Rwy Idg 5954 TDZE 37 Apt Elev 45

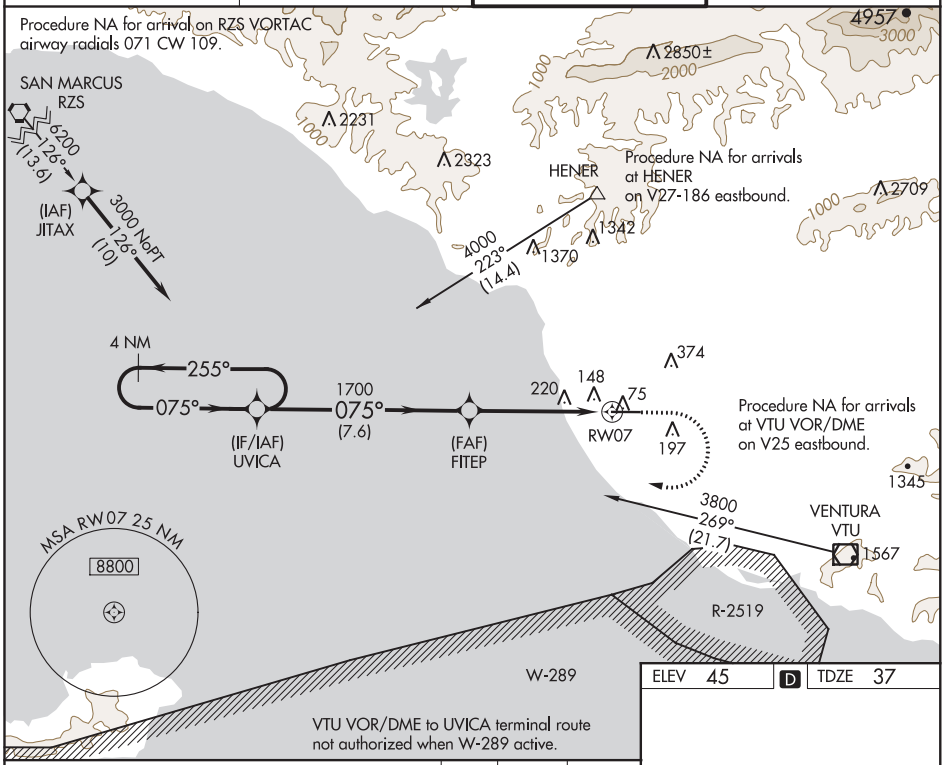
RNAV (GPS) RWY 7

OXNARD (OXR)

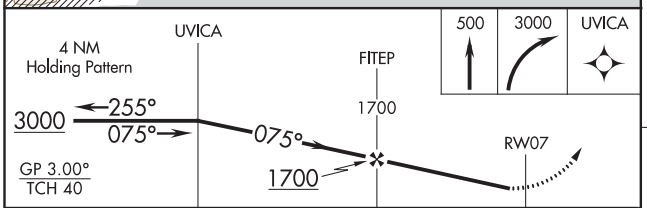
Baro-VNAV NA when using Camarillo altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). DME/DME RNP -0.3 NA. When local altimeter setting not received, use Camarillo altimeter setting and increase all DA 18 feet and all MDA 20 feet, increase Circling Cat D visibility ¼ mile.

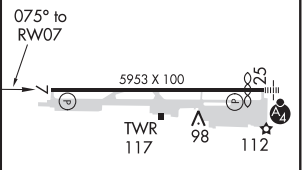
MISSED APPROACH: Climb to 500, then climbing right turn to 3000 direct UVICA and hold.

ATIS	POINT MUGU APP CON★	OXNARD TOWER★	GND CON
118.05	124.7 335.5	134.95 (CTAF) L 257.8	121.9



ELEV 45 | D | TDZE 37





CATEGORY	A	B	C	D
LPV DA		287-1	250 (300-1)	
LNAV/VNAV DA		319-1	282 (300-1)	
LNAV MDA	480-1	443 (500-1)	480-1⅜	443 (500-1⅜)
CIRCLING	500-1	455 (500-1)	500-1½ 455 (500-1½)	700-2 655 (700-2)

REIL Rwy 7 L
MIRL Rwy 7-25 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 25

OXNARD (OXR)

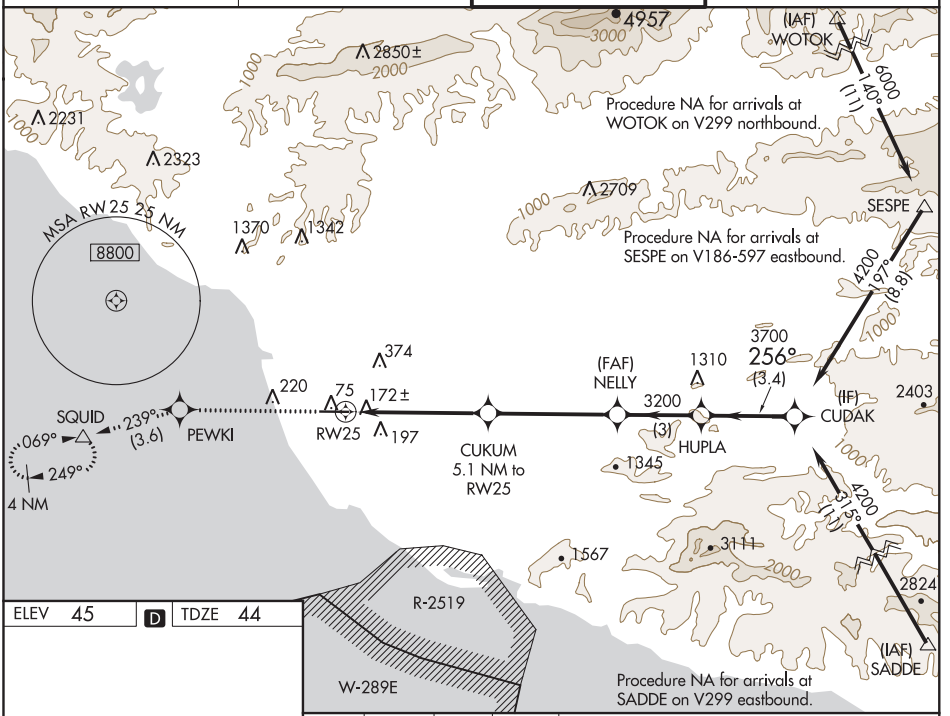
WAAS CH 86299 W25A	APP CRS 256°	Rwy Idg 5500 TDZE 44 Apt Elev 45

T A Inoperative table does not apply. Baro-VNAV NA when using Camarillo altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). DME/DME RNP -0.3 NA. When local altimeter setting not received, use Camarillo altimeter setting and increase all DA 18 feet, all MDA 20 feet, and Circling Cat D visibility ¼ mile. Helicopter visibility reduction below ¾ SM NA.

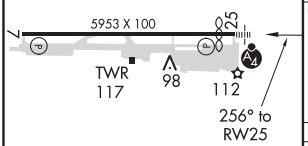
MALSF A4

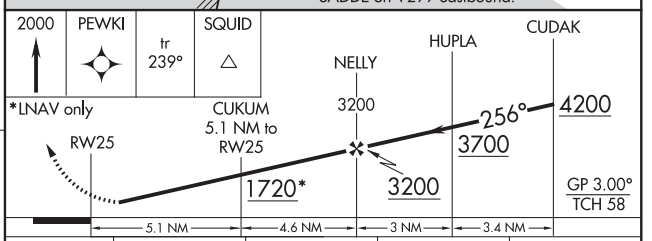
MISSED APPROACH: Climb to 2000 direct PEWKI and on track 239° to SQUID and hold.

ATIS	POINT MUGU APP CON*	OXNARD TOWER*	GND CON
118.05	124.7 335.5	134.95 (CTAF) L 257.8	121.9



ELEV 45 D TDZE 44





CATEGORY	A	B	C	D
LPV DA	294-1 250 (300-1)			
LNAV/VNAV DA	333-1 289 (300-1)			
LNAV MDA	520-1 476 (500-1)		520-1⅜ 476 (500-1⅜)	
CIRCLING	520-1 475 (500-1)		520-1½ 475 (500-1½)	700-2 655 (700-2)

REIL Rwy 7 L
MIRL Rwy 7-25 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

OXNARD, CALIFORNIA | AL-674 (FAA) | 18340

VOR RWY 25

OXNARD (OXR)

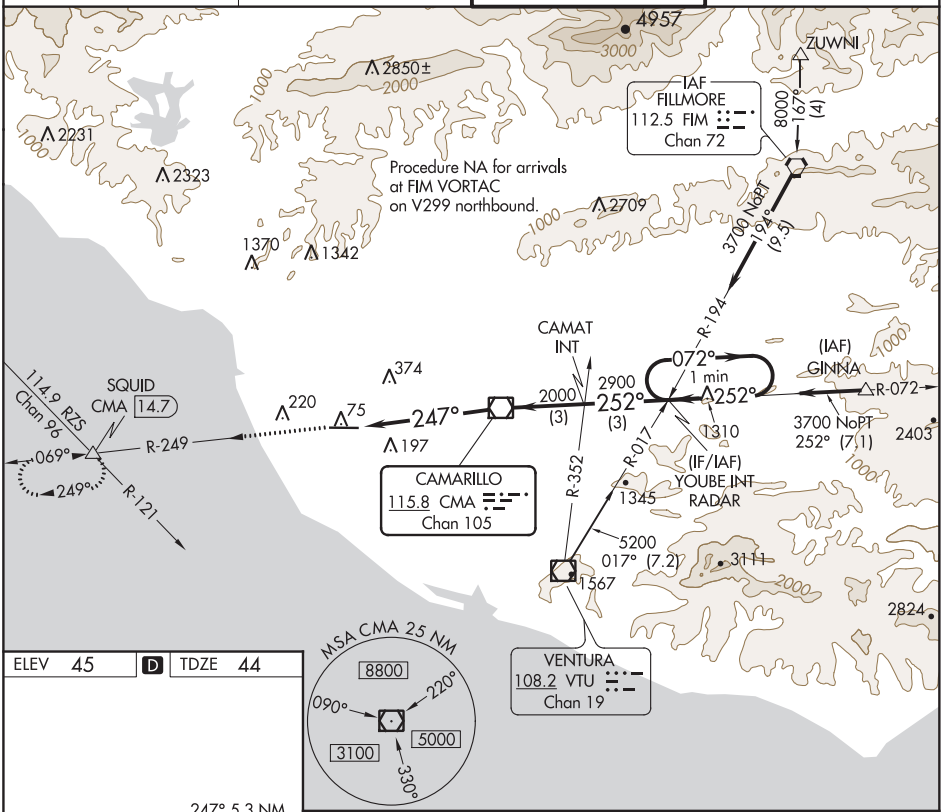
VOR/DME CMA	APP CRS	Rwy Idg	5500
115.8	247°	TDZE	44
Chan 105		Apt Elev	45

T A Inop table does not apply. When local altimeter setting not received, use Camarillo altimeter setting and increase all MDA 20 feet, increase Circling Cat D visibility ¼ mile. Rwy 25 helicopter visibility reduction below ¾ SM NA.

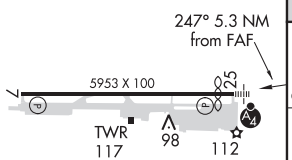
MALSF

MISSED APPROACH: Climb to 2000 on CMA R-249 to SQUID INT/14.7 DME and hold.

ATIS	POINT MUGU APP CON★	OXNARD TOWER★	GND CON
118.05	124.7 335.5	134.95 (CTAF) L 257.8	121.9



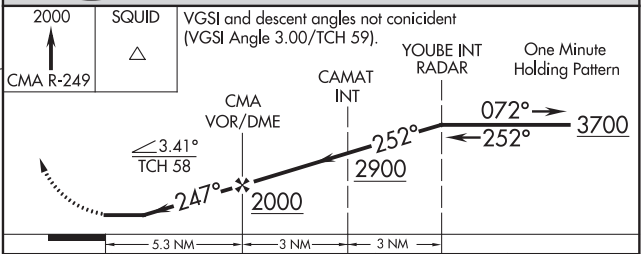
ELEV 45	D	TDZE 44



REIL Rwy 7 L

MIRL Rwy 7-25 L

FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46



CATEGORY	A	B	C	D
S-25	540-1	496 (500-1)	540-1⅜	496 (500-1⅜)
CIRCLING	540-1	495 (500-1)	540-1½ 495 (500-1½)	700-2 655 (700-2)

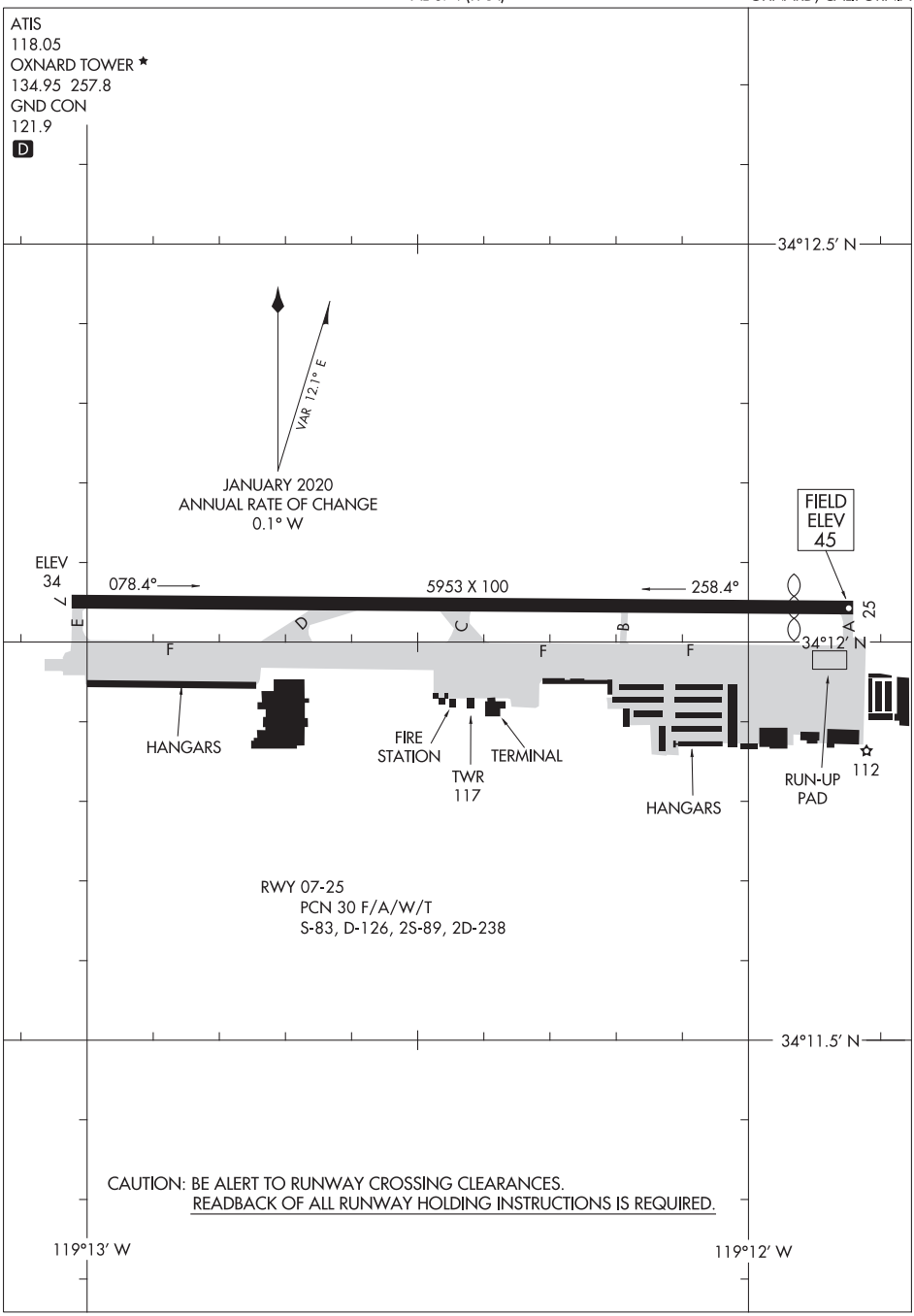
OXNARD, CALIFORNIA
Amdt 10C 06DEC18

34°12′N-119°12′W

OXNARD (OXR)

VOR RWY 25

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020

CAMARILLO SIX DEPARTURE

(CMA6.CMA) 15SEP16

OXNARD, CALIFORNIA
OXNARD (OXR)

CAMARILLO SIX DEPARTURE

(CMA6.CMA) 16259

OXNARD, CALIFORNIA
OXNARD (OXR)

TAKEOFF MINIMUMS

Rwy 7: 2000-5 or Standard with minimum climb of 320′ per NM to 4100.

Rwy 25: 2100-5 or Standard with a minimum climb of 300′ per NM to 4100.

TAKEOFF OBSTACLE NOTES

Rwy 7: Tree 527′ from DER, 501′ left of centerline, 59′ AGL/108′ MSL.

NOTE: Aircraft proceeding on FILLMORE TRANSITION- If not at MCA/MEA prior to reaching FIM VORTAC, continue climbing in depicted holding pattern to MCA or assigned altitude.

NOTE: RADAR required.

TOP ALTITUDE: 8000

ATIS 118.05
GND CON 121.9
OXNARD TOWER★ 134.95 (CTAF) 257.8
POINT MUGU DEP CON★ 124.7 335.5
LOS ANGELES CENTER 135.5 327.1

FILLMORE
112.5 FIM
Chan 72
N34°21.40′-W118°52.88′
L-3-4-7, H-4

VAN NUYS
113.1 VNY
Chan 78

1700
(for Ventura Transition)

120°
069°
R-249
072° (6)
072° (7)
R-195
195°
015° (10)
V299
R-148
R-255
N
13

ACRAT
N34°13.03′
W118°58.71′

GINNA
N34°13.38′
W118 °49.92′
L-3-4-7

CAMARILLO
115.8 CMA
Chan 105
N34°12.75-W119°05.66′

144° (6)
R-324

VENTURA
108.2 VTU
Chan 19
N34°06.90′-W119°02.97′
L-3-4-7, H-4

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb to 8000 (or assigned altitude) on CMA R-249 to CMA VOR/DME, thence. . . .

TAKEOFF RUNWAY 25: Climbing right turn to 8000 (or assigned altitude) on heading 120° to intercept CMA R-249 to CMA VOR/DME, thence. . . . . .on (assigned route) or (transition).

FILLMORE TRANSITION (CMA6.FIM): From over CMA VOR/DME via CMA R-072 to ACRAT INT then via FIM R-195 to FIM VORTAC.

GINNA TRANSITION (CMA6.GINNA): From over CMA VOR/DME via CMA R-072 to GINNA INT.

VENTURA TRANSITION (CMA6.VTU): From over CMA VOR/DME via VTU R-324 to VTU VOR/DME.

298

SL-67A (FAA)

ATIS 118.05
GND CON 121.9
OXNARD TOWER★ 134.95 (CTAF) 257.8
POINT MUGU DEP CON★ 124.7 335.5
LOS ANGELES CENTER 135.5 327.1
TOP ALTITUDE: 6000
TAKEOFF MINIMUMS
Rwy 7: 2100-5 or Standard with minimum climb of 290' per NM to 2600.
Rwy 25: Standard except KWANG TRANSITION requires a minimum climb of 370' per NM to 600.
SAN MARCUS 114.9 RZS Chan 96
GAVIOTA 113.8 GVO Chan 85
FILLMORE 112.5 FIM Chan 72
CAMARILLO 115.8 CMA Chan 105
VENTURA 108.2 VTU Chan 19
N34°06.90' W119°02.97'
L-3-4-7, H-4
KWANG N34°18.55' W119°30.85' L-3-4-7
SKIFF N34°11.90' W119°14.88' 600
SQUID N34°11.11' W119°23.27' L-3-4-7
GOLET N34°16.88' W119°51.86' L-3-4-7
(SUPNY) N34°09.04' W119°44.79'
ROBOR N34°08.91' W119°12.01'
3000
2000
R-2519
R-119
R-250
R-127
R-185
R-121
R-249
R-219
R-282
R-269
R-270
090° (8)
040°
282° (15)
249° (7)
249° (18)
307° (10)
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RUNWAY 7: Climbing left turn to 6000 (or assigned altitude) to intercept CMA R-249 westbound to SKIFF INT . . . .
TAKEOFF RUNWAY 25: Climb to 6000 (or assigned altitude) on CMA R-249 to cross SKIFF INT at or above 600 . . . .
. . . . thence on (transition) or (assigned route).
GOLET TRANSITION (SKIFF7.GOLET): From over SKIFF INT via CMA R-249 to (SUPNY), then via GVO R-127 to GOLET INT.
KWANG TRANSITION (SKIFF7.KWANG): From over SKIFF INT via VTU R-282 to KWANG INT.
SQUID TRANSITION (SKIFF7.SQUID): From over SKIFF INT via CMA R-249 to SQUID INT.
VENTURA TRANSITION (SKIFF7.VTU): From over SKIFF INT via CMA R-249 to 2000, then turn left heading 040° to intercept VTU R-270 to VTU VOR/DME.
TAKEOFF OBSTACLE NOTES
Rwy 7: Tree 527' from DER, 501' left of centerline, 59' AGL/108' MSL.
NOTE: Chart not to scale.
SW-3, 05 NOV 2020 to 31 DEC 2020

PALM SPRINGS, CALIFORNIA | AL-5848 (FAA) | 19283

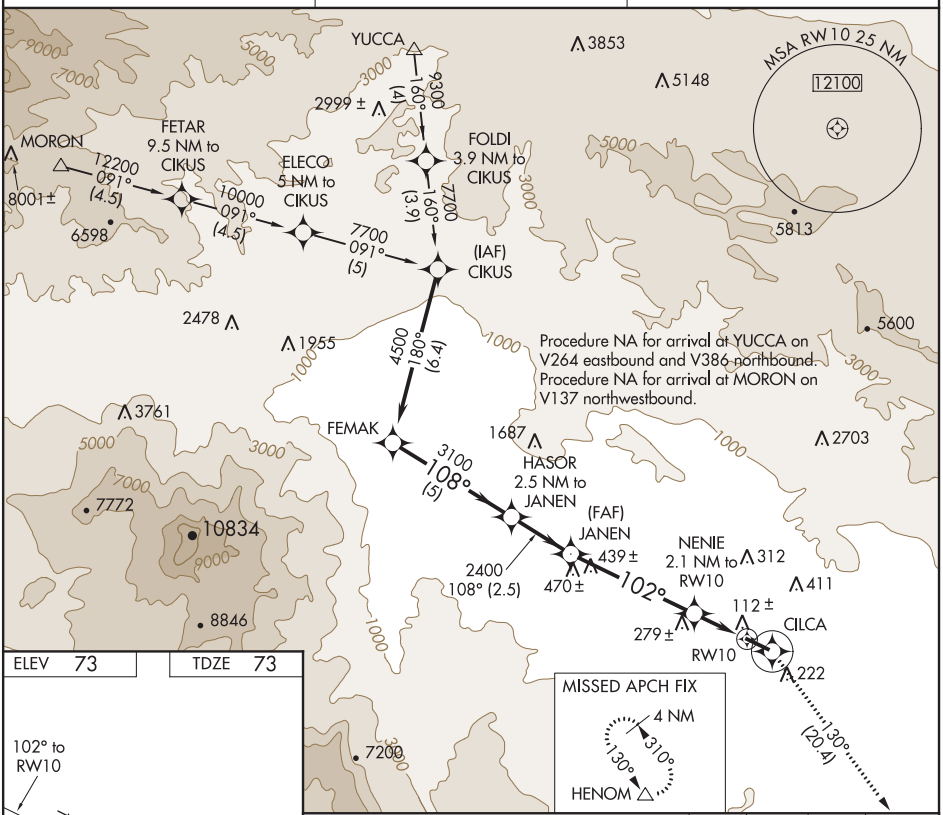
APP CRS	Rwy Idg	5002
102°	TDZE	73
	Apt Elev	73

RNAV (GPS) RWY 10
BERMUDA DUNES (UDD)

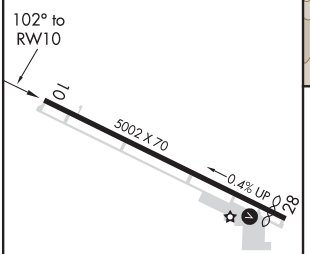
NA — GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA. Use Jacqueline Cochran Rgnl altimeter setting.

MISSED APPROACH: Climb to 3700 direct CILCA and via 130° track to HENOM and hold.

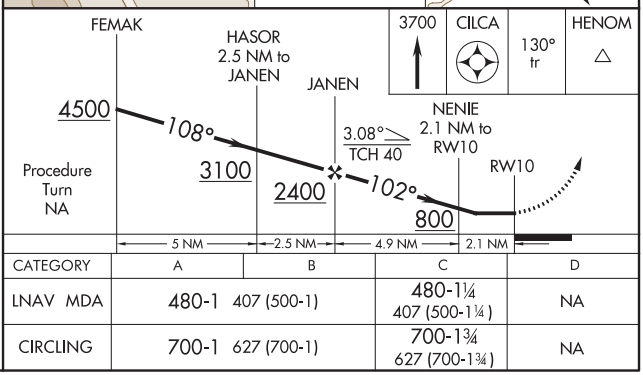
TRM ASOS	SOCAL APP CON ★	UNICOM
118.325	135.275 251.1	122.8 (CTAF) L



ELEV 73 | TDZE 73



REIL Rwy 28
LIRL Rwy 10-28 L



CATEGORY	A	B	C	D
LNAV MDA	480-1 407 (500-1)		480-1¼ 407 (500-1¼)	NA
CIRCLING	700-1 627 (700-1)		700-1¾ 627 (700-1¾)	NA

PALM SPRINGS, CALIFORNIA
Orig-B 25NOV04

33°45'N-116°16'W

BERMUDA DUNES (UDD)
RNAV (GPS) RWY 10

SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 28

BERMUDA DUNES (UDD)

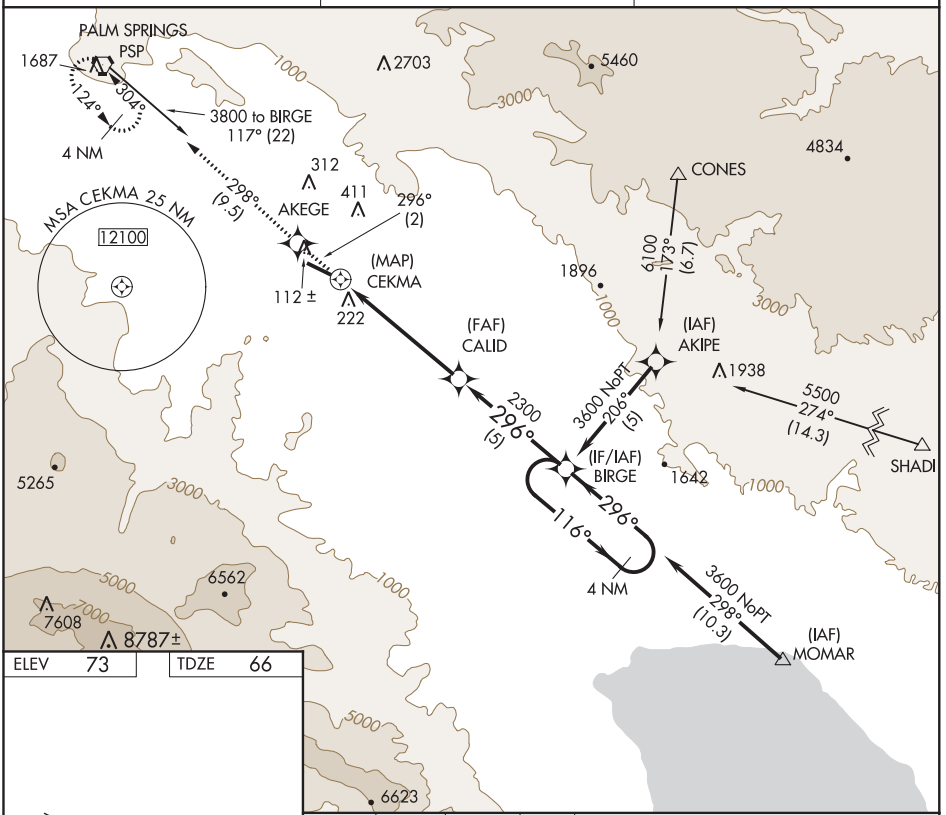
APP CRS	Rwy Idg	4702
296°	TDZE	66
	Apt Elev	73

RNP APCH.

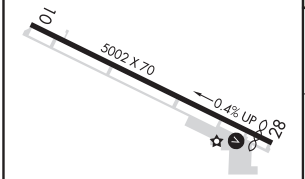
T NA Use Jacqueline Cochran Rgnl altimeter setting. Rwy 28 Straight-in and Circling minimums NA at night. Rwy 28 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3300 via course 296° to AKEGE WP then right turn via course 298° to PSP VORTAC and hold.

TRM ASOS	SOCAL APP CON ★	UNICOM
118.325	135.275 251.1	122.8 (CTAF) L



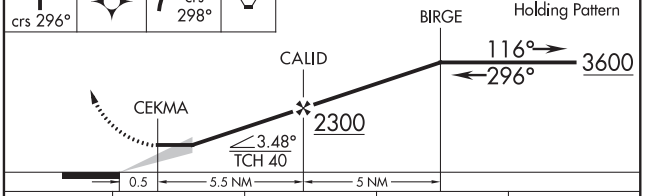
ELEV	73	TDZE	66



REIL Rwy 28
LIRL Rwy 10-28 L

3300	AKEGE	crs 298°	PSP
crs 296°			

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 33).



CATEGORY	A	B	C	D
LNAV MDA	1020-1¼ 954 (1000-1¼)	1020-1½ 954 (1000-1½)	1020-3 954 (1000-3)	NA
CIRCLING	1020-1¼ 947 (1000-1¼)	1020-1½ 947 (1000-1½)	1020-3 947 (1000-3)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

PALM SPRINGS, CALIFORNIA | AL-5848 (FAA) | 20310

VORTAC TRM	APP CRS	Rwy Idg	N/A
116.2	310°	TDZE	N/A
Chan 109		Apt Elev	73

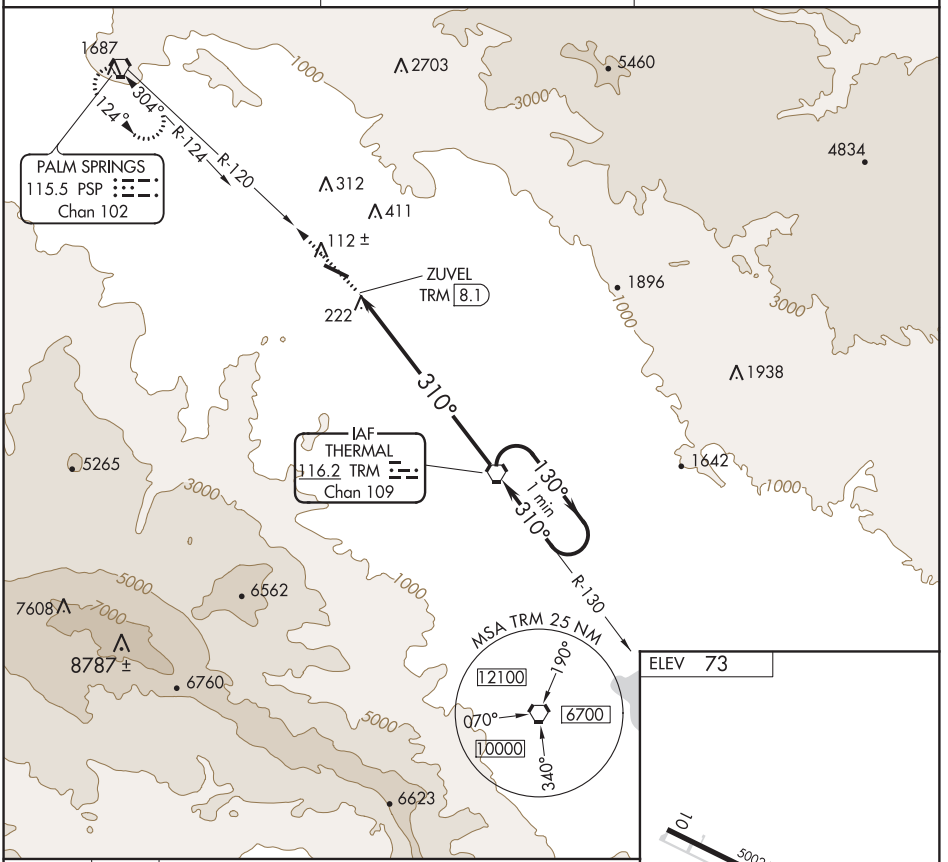
VOR-C

BERMUDA DUNES (UDD)

T NA — Use Jacqueline Cochran Rgnl altimeter setting. Circling to Rwy 28 NA at night.

MISSED APPROACH: Climb to 3300 via PSP R-120 to PSP VORTAC and hold.

TRM ASOS	SOCAL APP CON ★	UNICOM
118.325	135.275 251.1	122.8 (CTAF) L

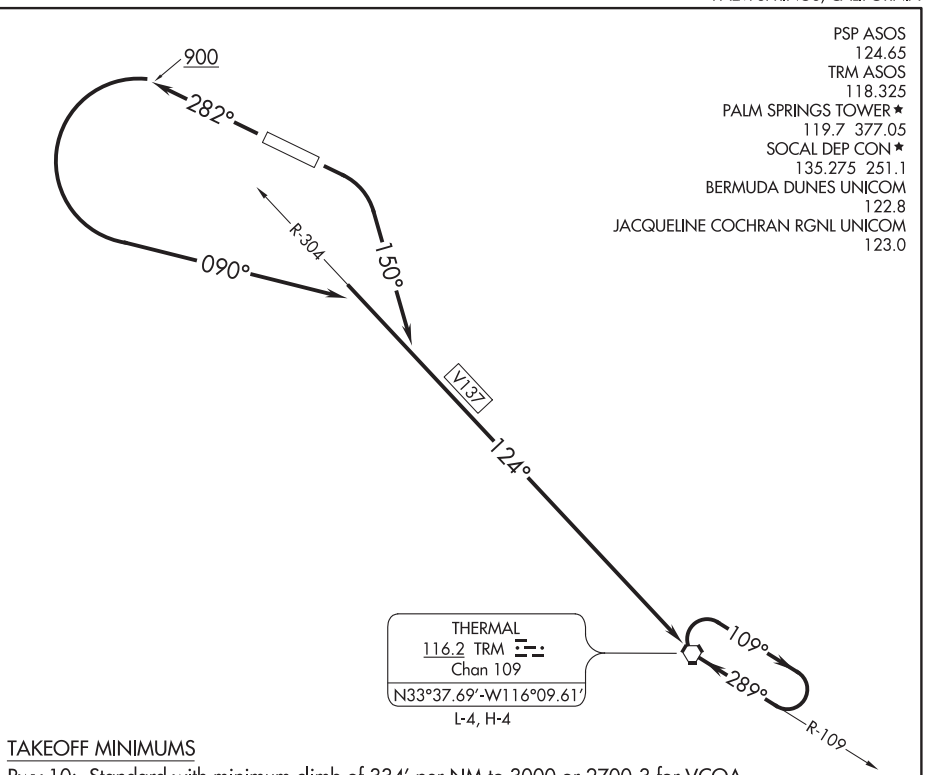


CATEGORY	A	B	C	D
CIRCLING	960-1¼	887 (900-1¼)	960-2¾ 887 (900-2¾)	NA

FAF to MAP 8.1 NM					
Knots	60	90	120	150	180
Min:Sec	8:06	5:24	4:03	3:14	2:42

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020



TAKEOFF MINIMUMS

Rwy 10: Standard with minimum climb of 334′ per NM to 3000 or 2700-3 for VCOA.
Rwy 28: Standard with minimum climb of 490′ per NM to 2300 or 2700-3 for VCOA.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 10: Climbing right turn heading 150° to intercept TRM R-304 to TRM VORTAC, thence . . . . or, obtain ATC approval for VCOA when requesting IFR clearance; climb in visual conditions to cross Bermuda Dunes Airport at or above 2600, then on TRM R-304 to TRM VORTAC, thence . . . .

TAKEOFF RUNWAY 28: Climb heading 282° to 900 then climbing left turn heading 090° to intercept TRM R-304 to TRM VORTAC, thence . . . . or, obtain ATC approval for VCOA when requesting IFR clearance; climb in visual conditions to cross Bermuda Dunes Airport at or above 2600, then on TRM R-304 to TRM VORTAC, thence . . . .

. . . . continue climbing in TRM VORTAC holding pattern to cross TRM VORTAC at or above MEA/MCA for route of flight.

PALM SPRINGS, CALIFORNIA | AL-529 (FAA) | 18200

WAAS	APP CRS	Rwy Idg	4995
CH 77941	302°	TDZE	-121
W30A		Apt Elev	-115

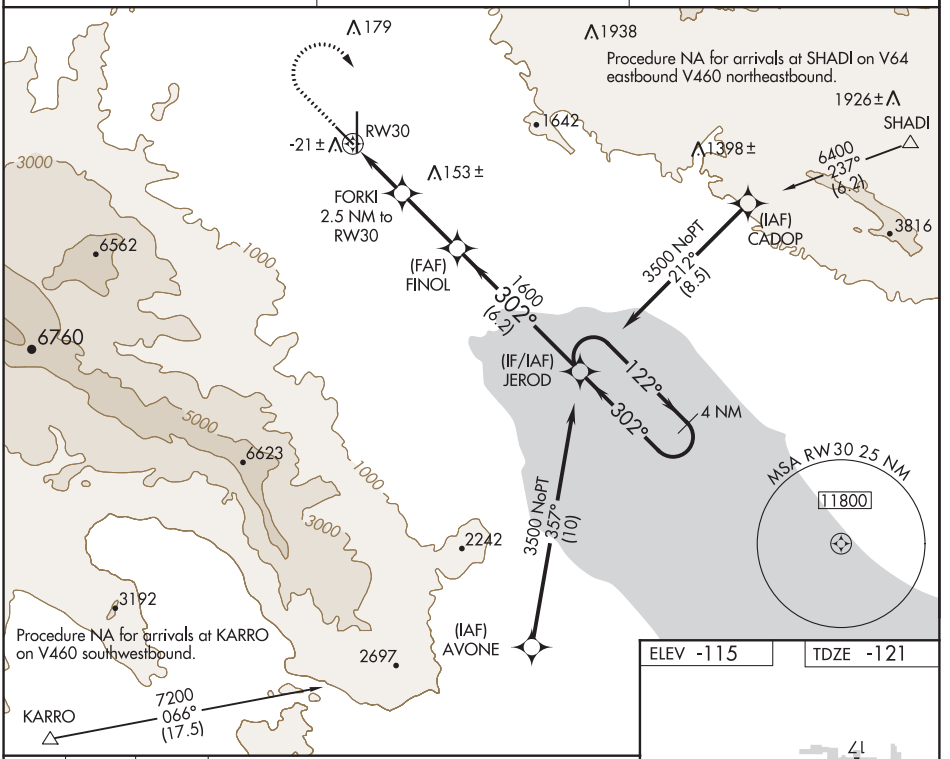
RNAV (GPS) RWY 30
JACQUELINE COCHRAN RGNL (TRM)

RNP APCH.

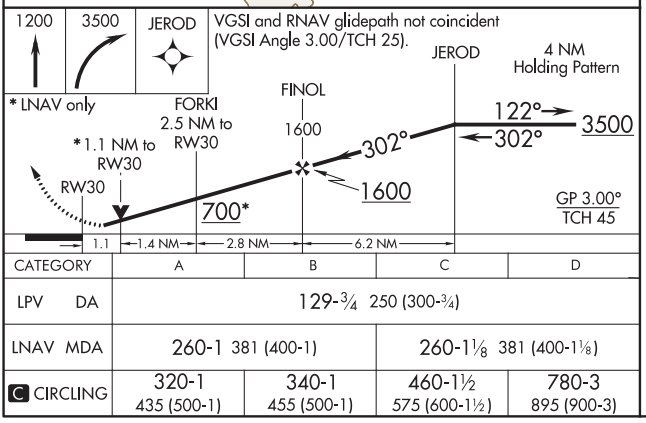
T A Rwy 30 helicopter visibility reduction below ¾ SM NA.

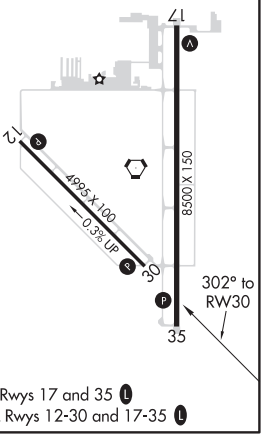
MISSED APPROACH: (Do not exceed 230K until JEROD) Climb to 1200 then climbing right turn to 3500 direct JEROD and hold.

ASOS	SOCAL APP CON ★	UNICOM
118.325	135.275 251.1	123.0 (CTAF) L



ELEV -115 | TDZE -121





CATEGORY	A	B	C	D
LPV DA	129-¾ 250 (300-¾)			
LNAV MDA	260-1 381 (400-1)		260-1⅛ 381 (400-1⅛)	
C CIRCLING	320-1 435 (500-1)	340-1 455 (500-1)	460-1½ 575 (600-1½)	780-3 895 (900-3)

REIL Rwys 17 and 35 L
MIRL Rwys 12-30 and 17-35 L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

PALM SPRINGS, CALIFORNIA
Amdt 1 19JUL18

33°38′N-116°10′W

JACQUELINE COCHRAN RGNL (TRM)
RNAV (GPS) RWY 30

APP CRS	Rwy Idg	8500
336°	TDZE	-128
	Apt Elev	-115

RNAV (GPS) RWY 35

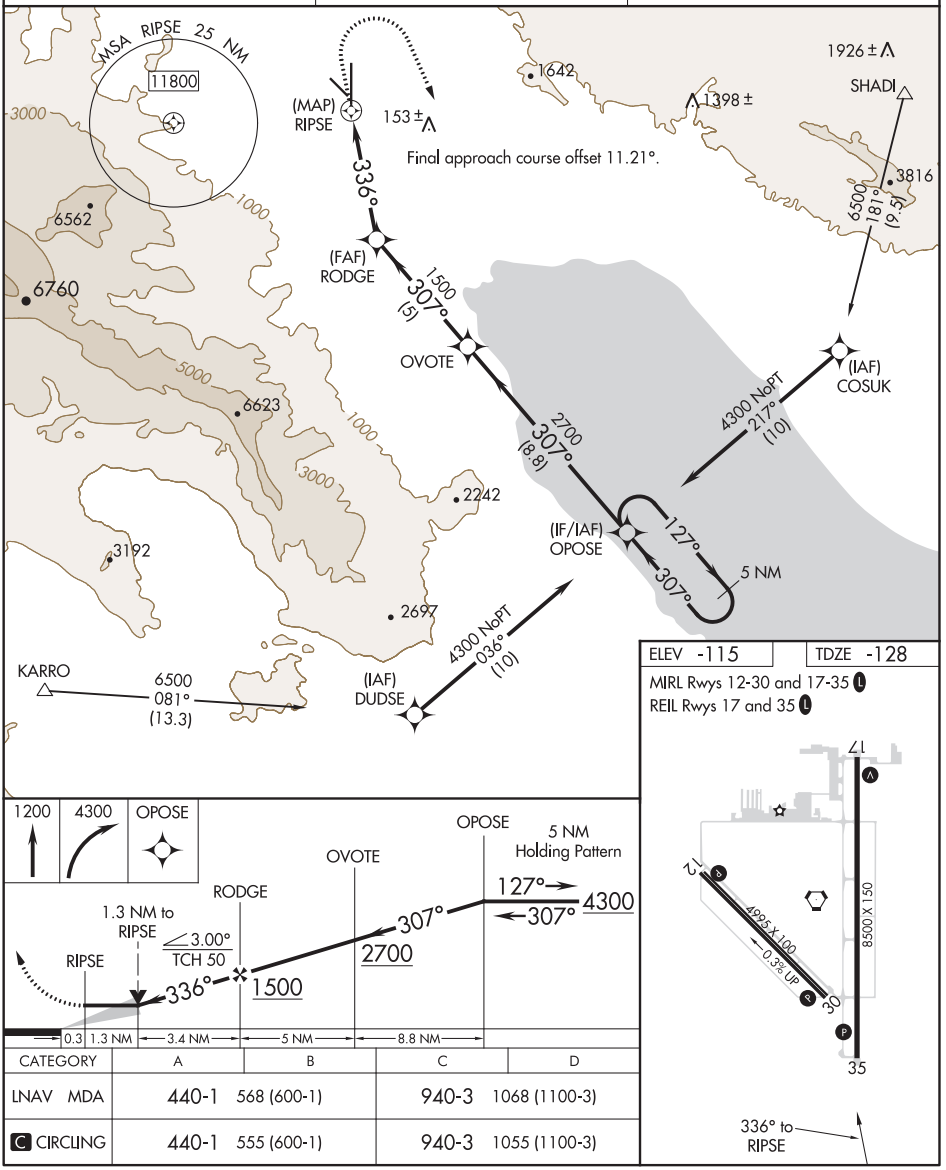
JACQUELINE COCHRAN RGNL (TRM)

RNP APCH.

T
A

MISSED APPROACH: Climb to 1200 then climbing right turn to 4300 direct OPOSE and hold.

ASOS	SOCAL APP CON ★	UNICOM
118.325	135.275 251.1	123.0 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	440-1	568 (600-1)	940-3	1068 (1100-3)
C CIRCLING	440-1	555 (600-1)	940-3	1055 (1100-3)

ELEV -115	TDZE -128

MIRL Rwys 12-30 and 17-35 L
REIL Rwys 17 and 35 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

PALM SPRINGS, CALIFORNIA | AL-529 (FAA) | 20030

VORTAC TRM	APP CRS	Rwy Idg	4995
116.2	316°	TDZE	-121
Chan 109		Apt Elev	-115

VOR RWY 30

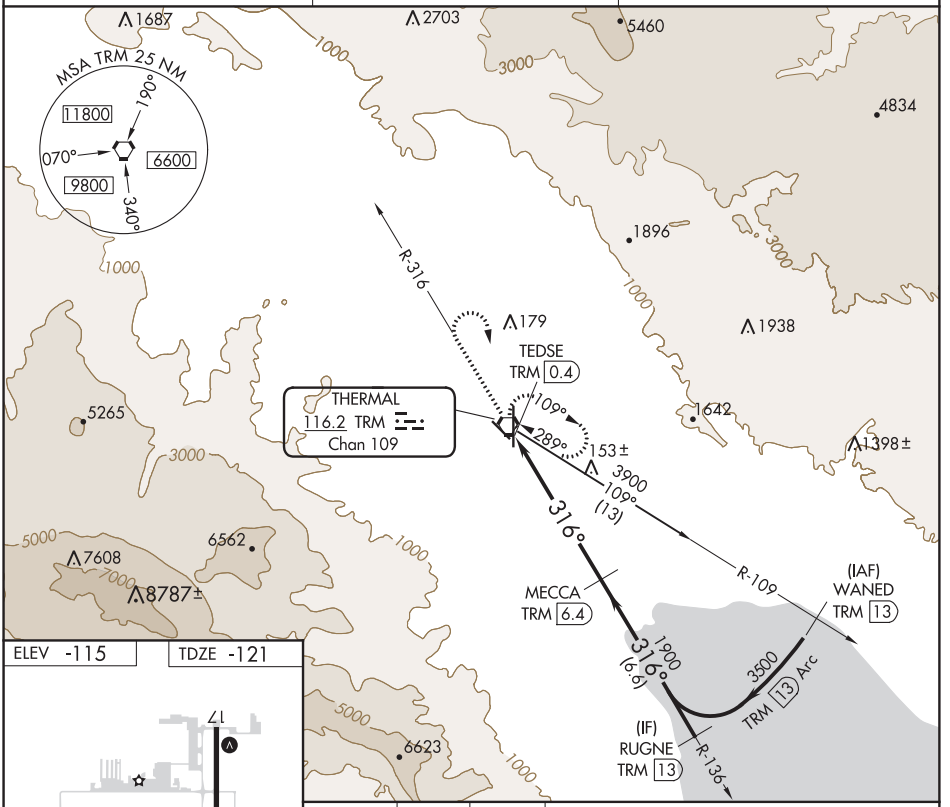
JACQUELINE COCHRAN RGNL (TRM)

DME required.

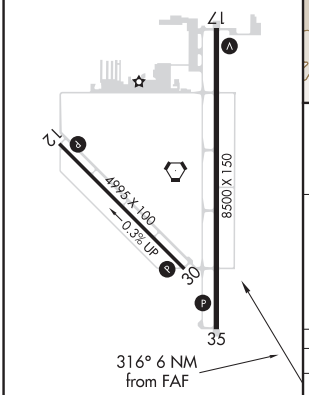
Rwy 30 helicopter visibility reduction below ¾ SM NA.

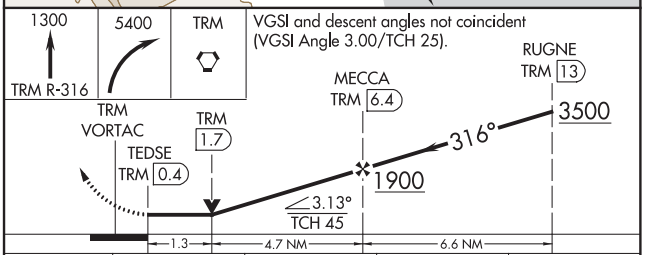
MISSED APPROACH: Climb to 1300 on TRM VORTAC R-316 then climbing right turn to 5400 direct TRM VORTAC and hold, continue climb-in-hold to 5400.

ASOS	SOCAL APP CON ★	UNICOM
118.325	135.275 251.1	123.0 (CTAF) L



ELEV -115 | TDZE -121





CATEGORY	A	B	C	D
S-30	300-1 421 (500-1)		300-1¼ 421 (500-1¼)	
C CIRCLING	320-1 435 (500-1)	340-1 455 (500-1)	460-1½ 575 (600-1½)	780-3 895 (900-3)

REIL Rwys 17 and 35 L
MIRL Rwys 12-30 and 17-35 L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC TRM	APP CRS	Rwy Idg	N/A
116.2	307°	TDZE	N/A
Chan 109		Apt Elev	-115

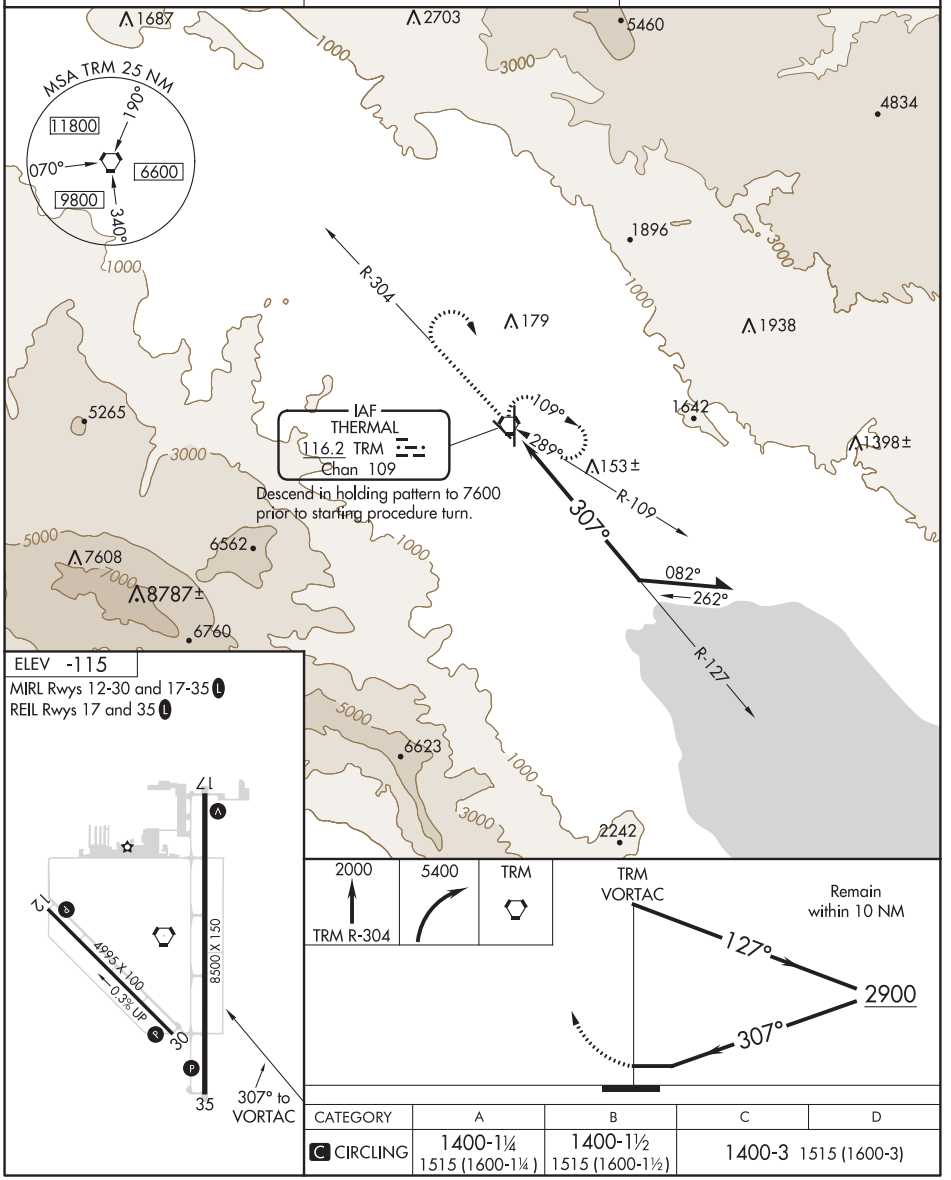
VOR-A

JACQUELINE COCHRAN RGNL (TRM)

T
A

MISSED APPROACH: Climb to 2000 on TRM VORTAC R-304 then climbing right turn to 5400 direct TRM VORTAC and hold, continue climb-in-hold to 5400.

ASOS	SOCAL APP CON ★	UNICOM
118.325	135.275 251.1	123.0 (CTAF) L



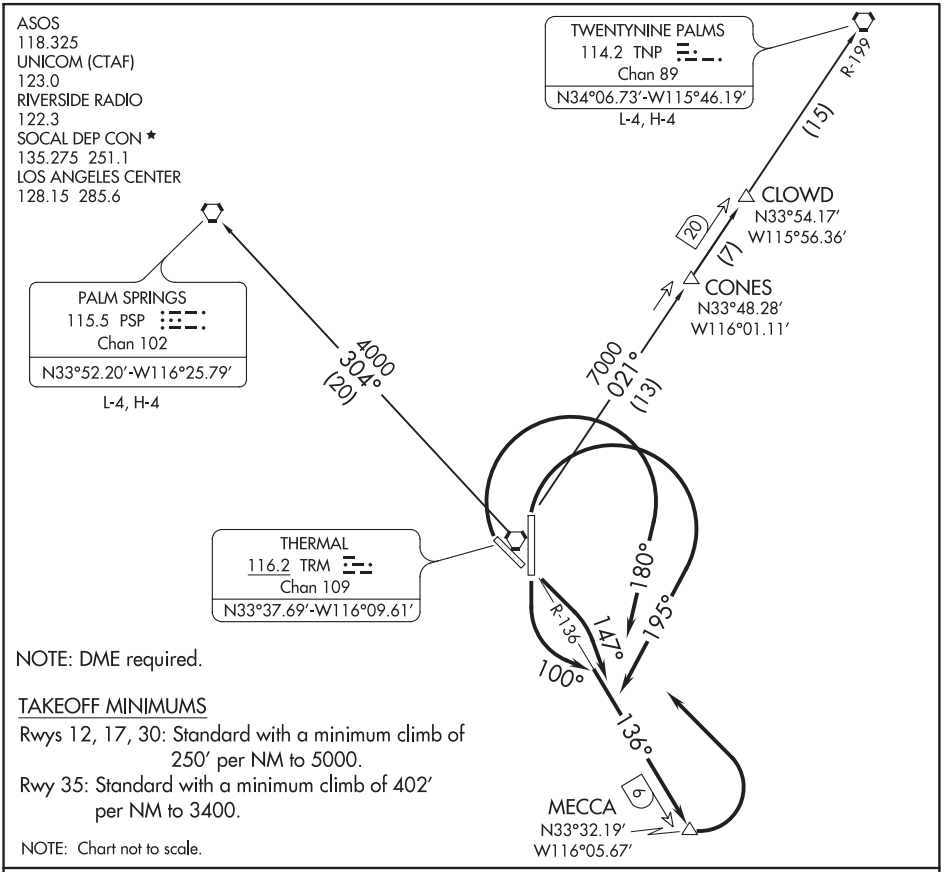
CATEGORY	A	B	C	D
C CIRCLING	1400-1¼ 1515 (1600-1¼)	1400-1½ 1515 (1600-1½)	1400-3 1515 (1600-3)	

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(MECCA1.TRM) 20198

MECCA ONE DEPARTURE

JACQUELINE COCHRAN RGNL (TRM)
PALM SPRINGS, CALIFORNIA
AL-529 (FAA)



NOTE: DME required.

TAKEOFF MINIMUMS

Rwys 12, 17, 30: Standard with a minimum climb of 250' per NM to 5000.

Rwy 35: Standard with a minimum climb of 402' per NM to 3400.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 12: Climbing right turn heading 147° to intercept TRM VORTAC R-136 to MECCA, then climbing left turn direct TRM VORTAC. Thence. . . .

TAKEOFF RUNWAY 17: Climbing left turn heading 100° to intercept TRM VORTAC R-136 to MECCA, then climbing left turn direct TRM VORTAC. Thence. . . .

TAKEOFF RUNWAY 30: Climbing right turn heading 180° to intercept TRM VORTAC R-136 to MECCA, then climbing left turn direct TRM VORTAC. Thence. . . .

TAKEOFF RUNWAY 35: Climbing right turn heading 195° to intercept TRM VORTAC R-136 to MECCA, then climbing left turn direct TRM VORTAC. Thence. . . .

. . . .then on (assigned transition). Expect filed altitude 10 minutes after departure.

PALM SPRINGS TRANSITION (MECCA1.PSP): From over TRM VORTAC on TRM R-304 to PSP VORTAC.

TWENTY NINE PALMS TRANSITION (MECCA1.TNP): From over TRM VORTAC on TRM R-021 and TNP R-199 to TNP VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS		
309°	Rwy Idg	8500
	TDZE	430
	Apt Elev	477

RNAV (RNP) Y RWY 31L

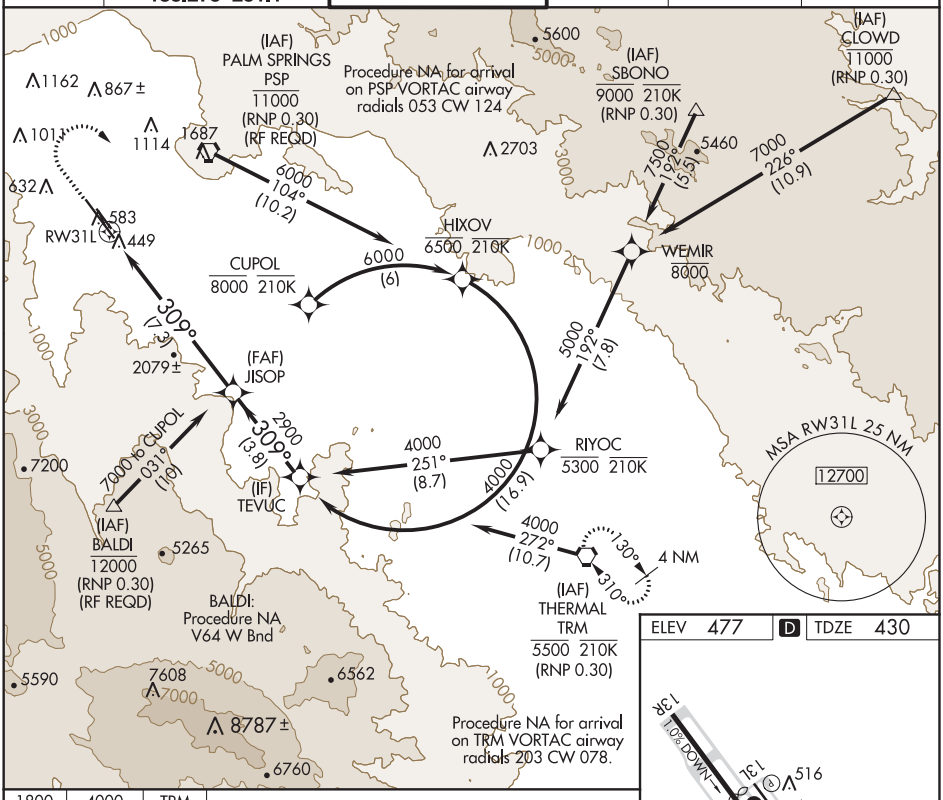
PALM SPRINGS INTL (PSP)

RNP AR APCH.

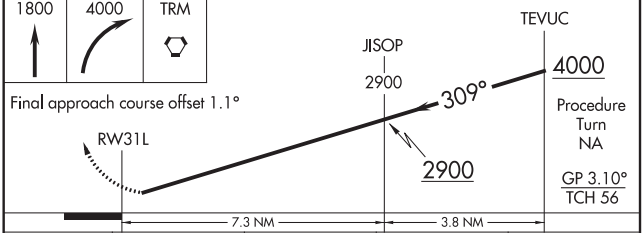
Missed approach requires minimum climb of 340' per NM to 3000. For uncompensated Baro-VNAV systems, procedure NA below 2°C or above 54°C.

MISSED APPROACH: Climb to 1800, then climbing right turn to 4000 direct TRM VORTAC and hold.

ATIS	SOCAL APP CON ★	PALM SPRINGS TOWER ★	GND CON	CLNC DEL	UNICOM
124.65	126.7 370.95 135.275 251.1	119.7 (CTAF) L 377.05	121.9	128.35	122.95

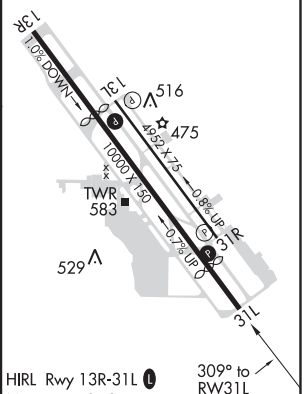


ELEV	477	D	TDZE	430



CATEGORY	A	B	C	D
RNP 0.30 DA	734-1 304 (300-1)			

AUTHORIZATION REQUIRED



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

PALM SPRINGS, CALIFORNIA | AL-545 (FAA) | 19339

APP CRS	Rwy Idg	6857
130°	TDZE	451
	Apt Elev	476

RNAV (RNP) Z RWY 13R

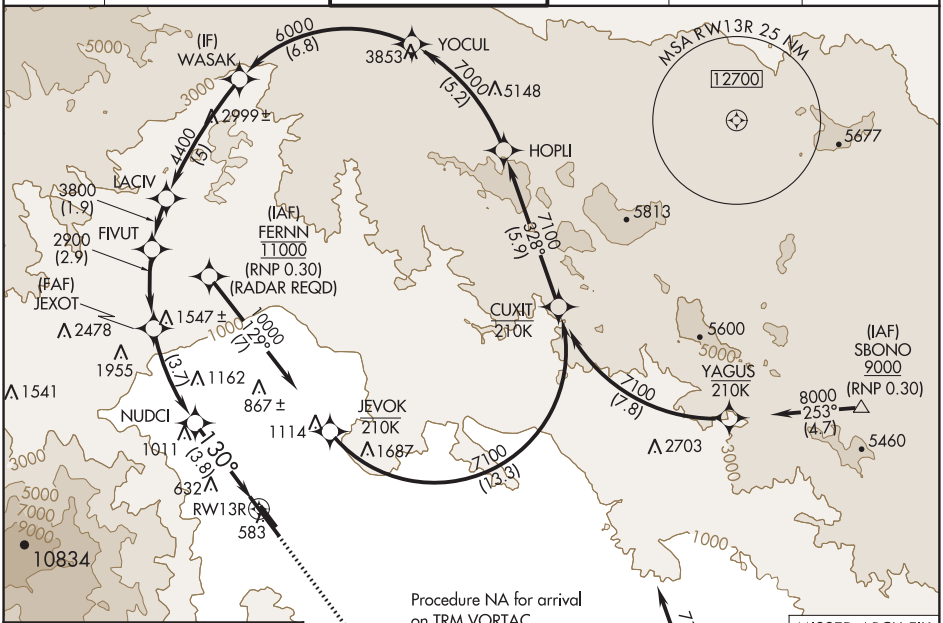
PALM SPRINGS INTL (PSP)

RNP AR APCH, RF required.

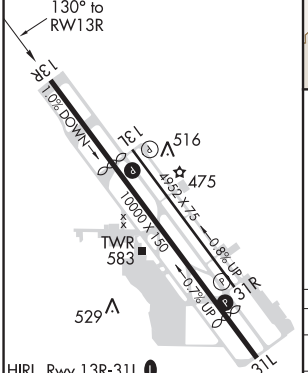
For uncompensated Baro-VNAV systems, procedure NA below 1°C or above 54°C.

MISSED APPROACH: Climb to 900 then climbing left turn to 4000 direct TRM VORTAC and hold.

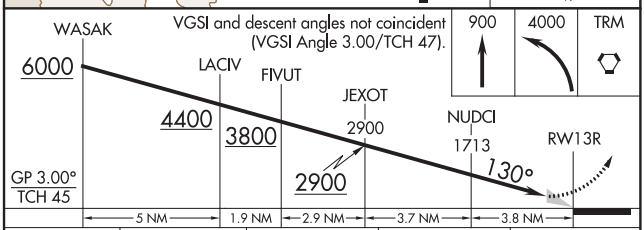
ATIS	SOCAL APP CON ★	PALM SPRINGS TOWER ★	GND CON	CLNC DEL	UNICOM
124.65	126.7 370.95 135.275 251.1	119.7 (CTAF) Ⓛ 377.05	121.9	128.35	122.95



ELEV 476 Ⓓ TDZE 451



HIRL Rwy 13R-31L Ⓛ
MIRL Rwy 13L-31R
REIL Rwys 13R and 31L Ⓛ
REIL Rwys 13L and 31R



CATEGORY	A	B	C	D
RNP 0.17 DA		812-1¼	361 (400-1¼)	
RNP 0.30 DA		882-1½	431 (500-1½)	

AUTHORIZATION REQUIRED

PALM SPRINGS, CALIFORNIA
Amdt 1A 05DEC19

33°50'N-116°30'W

PALM SPRINGS INTL (PSP)

RNAV (RNP) Z RWY 13R

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

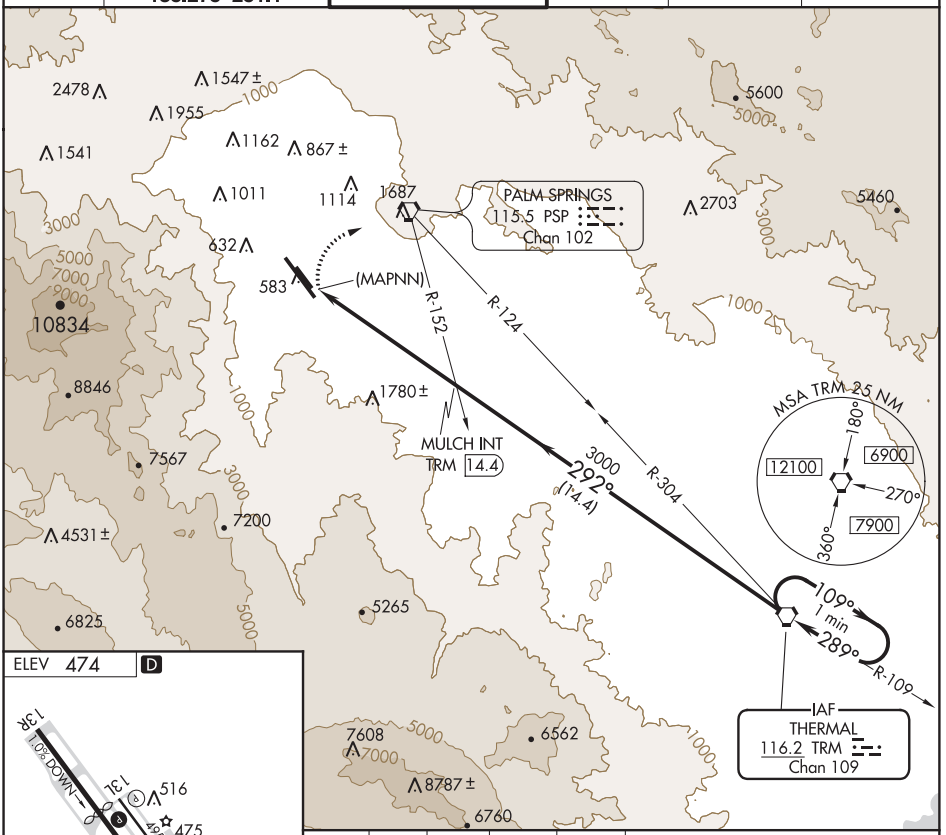
VORTAC TRM	APP CRS	Rwy Idg	N/A
116.2	292°	TDZE	N/A
Chan 109		Apt Elev	474

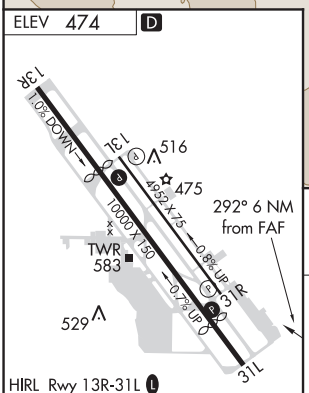
VOR or GPS-B
PALM SPRINGS INTL (PSP)

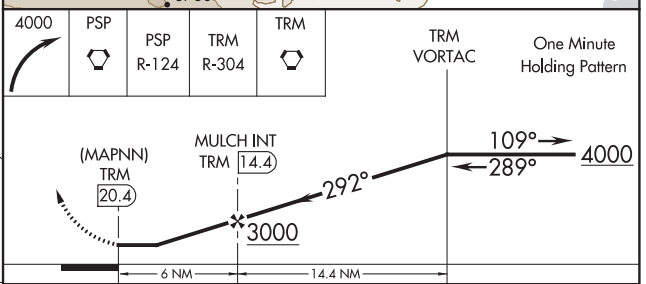
T A Circling not authorized southwest of Rwy 13R-31L.

MISSED APPROACH: Climbing right turn to 4000 direct PSP VORTAC then via PSP R-124 and TRM R-304 to TRM VORTAC and hold.

ATIS	SOCAL APP CON ★	PALM SPRINGS TOWER ★	GND CON	CLNC DEL	UNICOM
124.65	126.7 370.95 135.275 251.1	119.7 (CTAF) L 377.05	121.9	128.35	122.95







FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

CATEGORY	A	B	C	D
CIRCLING	2300-1¼ 1826 (1900-1¼)	2300-1½ 1826 (1900-1½)	2300-3 1826 (1900-3)	

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

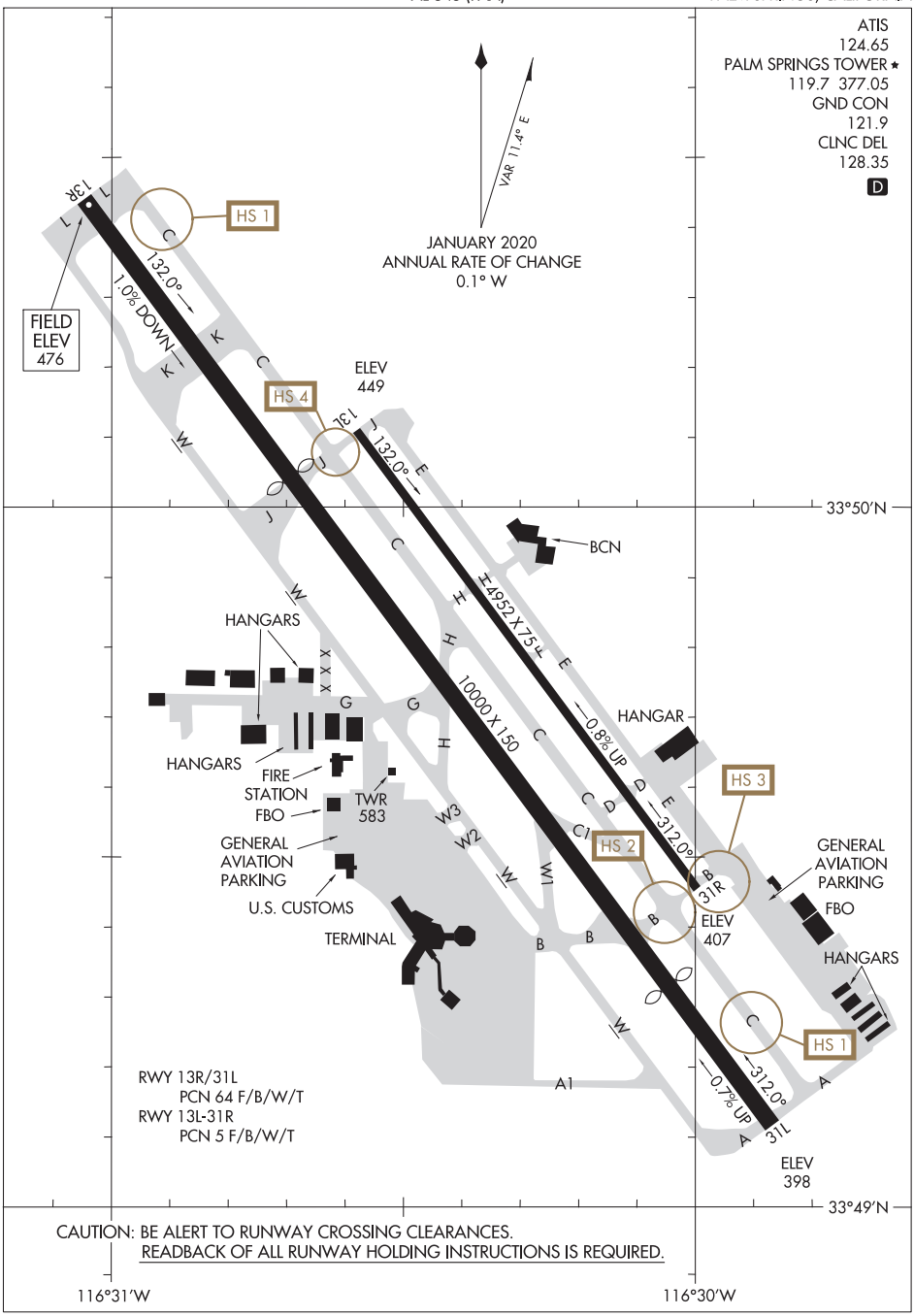
20086

AIRPORT DIAGRAM

PALM SPRINGS INTL (PSP)

PALM SPRINGS, CALIFORNIA

AL-545 (FAA)



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

PALM SPRINGS, CALIFORNIA

PALM SPRINGS INTL (PSP)

20086

TAKEOFF MINIMUMS

Rwy 13L, Standard with minimum climb of 440' per NM to 2300.
Rwy 13R, Standard with minimum climb of 422' per NM to 2300.
Rwy 31R, Standard with minimum climb of 405' per NM to 2700.
Rwy 31L, Standard with minimum climb of 386' per NM to 2700.

(TRM6.TRM) 20030

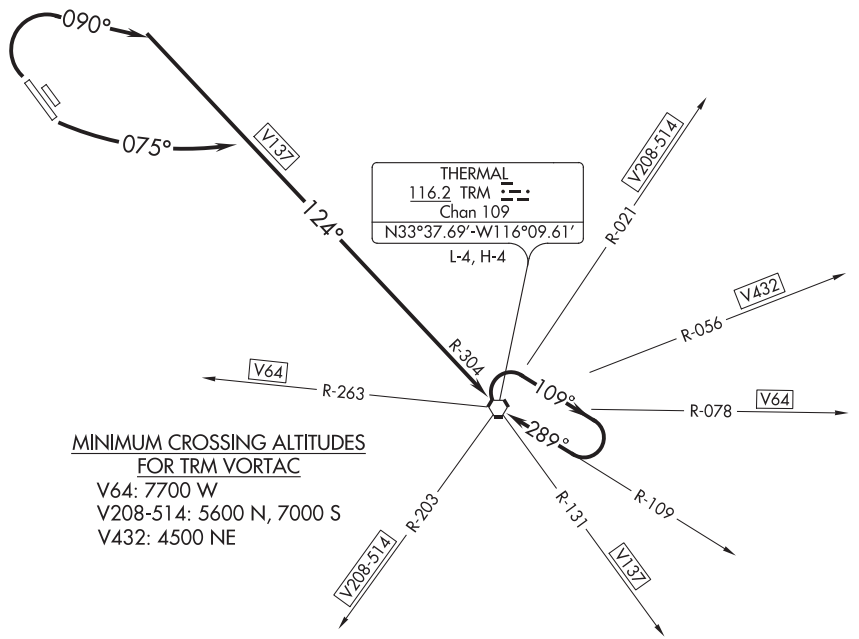
THERMAL SIX DEPARTURE

AL-545 (FAA)

PALM SPRINGS INTL (PSP)
PALM SPRINGS, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

ATIS
124.65
GND CON
121.9
SOCAL DEP CON ★
126.7 370.95
135.275 251.1



MINIMUM CROSSING ALTITUDES
FOR TRM VORTAC
V64: 7700 W
V208-514: 5600 N, 7000 S
V432: 4500 NE

TAKEOFF MINIMUMS
Rwy 13L: Minimum climb of 440' per NM to 2300.
Rwy 13R: Minimum climb of 422' per NM to 2300.
Rwy 31L: Minimum climb of 386' per NM to 2700.
Rwy 31R: Minimum climb of 405' per NM to 2700.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13L/R: Climbing left turn heading 075° to intercept TRM R-304 to TRM VORTAC. Thence . . . .

TAKEOFF RUNWAYS 31L/R: Climb heading 090° to intercept TRM R-304 to TRM VORTAC. Thence . . . .

. . . .If not at MEA/MCA at TRM VORTAC, climb in TRM holding pattern until reaching the MEA/MCA for assigned route of flight.

LOC I-PMD	APP CRS	Rwy Idg	12002
110.7	254°	TDZE	2503
		Apt Elev	2543

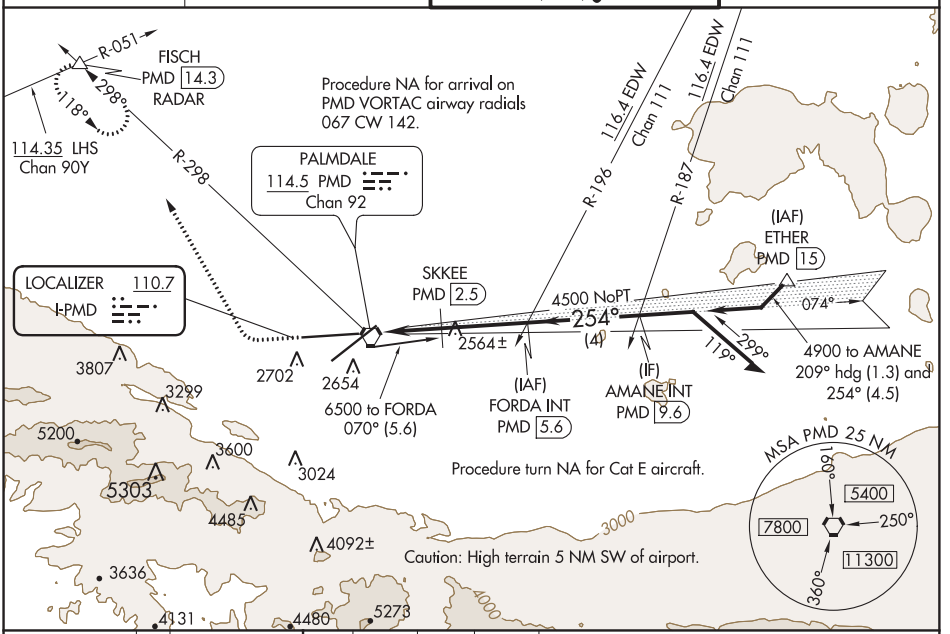
ILS or LOC RWY 25

PALMDALE USAF PLANT 42 (PMD)

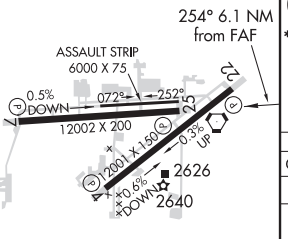
DME from PMD VORTAC.
Simultaneous reception of I-PMD and PMD DME required.
Circling NA for Cats C, D, and E south of Rwys 4 and 25.

MISSED APPROACH: Climb to 3000 then climbing right turn to 6700 on heading 318° and on PMD VORTAC R-298 to FISCH INT/PMD 14.3 DME/RADAR and hold, continue climb-in-hold to 6700.

ATIS	JOSHUA APP CON	PALMDALE TOWER ★	GND CON
118.275	124.55 363.0	123.7 (CTAF) 317.6	121.9 317.6



ELEV 2543 TDZE 2503



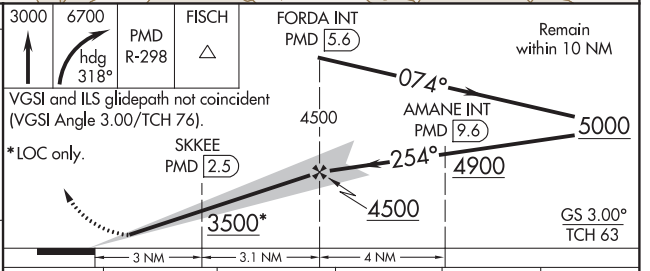
REIL Rwys 4, 7, 22 and 25 (L)
HIRL Rwys 4-22 and 7-25 (L)

FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

3000	6700 hdg 318°	PMD R-298	FISCH △

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 76).
*LOC only.



CATEGORY	A	B	C	D	E
S-ILS 25	2703-¾ 200 (200-¾)				
S-LOC 25	3500-1¼ 997 (1000-1¼)	3500-1½ 997 (1000-1½)	3500-3 997 (1000-3)		
C CIRCLING	3500-1¼ 957 (1000-1¼)	3500-1½ 957 (1000-1½)	3500-3 957 (1000-3)	3740-3 1197 (1200-3)	3760-3 1217 (1300-3)
SKKEE FIX MINIMUMS (DME REQUIRED)					
S-LOC 25	2820-1 317 (300-1)		2820-⅞ 317 (300-⅞)		
C CIRCLING	3020-1 477 (500-1)	3060-1 517 (600-1)	3140-1½ 597 (600-1½)	3740-3 1197 (1200-3)	3760-3 1217 (1300-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

PALMDALE, CALIFORNIA AL-310 (FAA) 20142

WAAS	APP CRS	Rwy Idg 12002
CH 53441	077°	TDZE 2540
W07A		Apt Elev 2543

RNAV (GPS) RWY 7

PALMDALE USAF PLANT 42 (PMD)

RNP APCH.

Circling NA for Cats C and D south of Rwys 4 and 25.

MISSED APPROACH: Climbing right turn to 7000 direct IMSIJ and hold.

ATIS	JOSHUA APP CON	PALMDALE TOWER ★	GND CON
118.275	124.55 363.0	123.7 (CTAF) L 317.6	121.9 317.6

Procedure NA for arrivals at JEFFY on V165-459 and V137 northwest bound.

MSA RW07 25 NM 10600

(IAF) JEFFY 3000 7100 107° (5.3) YUGKU 7000 107° (6.6) (IF) RGAMI RADAR 6200 092° (3) 5500 (3) (FAF) JITLA 077°

HIVYU 3795 UWEJO 5 NM to RW07 ZENAB 1.6 NM to RW07 2629± RW07

Final approach course offset 3.00°

5788 4000 3926 4333 3807 2649± 2659± 2702 2654 3299 4850 5200 3600 3024 5303 4485 4092 3636 4131 4480

Caution: high terrain 5 NM southwest of airport.

MISSED APCH FIX IMSIJ 276° 096° 7 NM

ELEV 2543 TDZE 2540

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 78).

JEFFY 8000 107° 7100 YUGKU 7000 092° 6200 RGAMI 5500 HIVYU 077° 4440 JITLA 3180 UWEJO 5 NM to RW07 ZENAB 1.6 NM to RW07 0.8 NM to RW07 3.50° TCH 50 RW07

7000 IMSIJ

5.3 NM 6.6 NM 3 NM 3 NM 2.8 NM 3.4 NM 0.8 NM 0.8 NM

077° to RW07 ASSAULT STRIP 6000 X 75 0.5% DOWN 072° 252° 12002 X 200 0.5% UP 2626 2640 0.6% DOWN

CATEGORY	A	B	C	D
LP MDA	2880-1 340 (400-1)			
LNAV MDA	2920-1 380 (400-1)			
C CIRCLING	3020-1 477 (500-1)	3060-1 517 (600-1)	3140-1½ 597 (600-1½)	3740-3 1197 (1200-3)

REIL Rwys 4, 7, 22 and 25 L

HIRL Rwys 4-22 and 7-25 L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

PALMDALE, CALIFORNIA

Orig-A 21MAY20

34°38'N-118°05'W

PALMDALE USAF PLANT 42 (PMD)

RNAV (GPS) RWY 7

WAAS	APP CRS	Rwy Idg	12001
CH 45741	223°	TDZE	2498
W22A		Apt Elev	2543

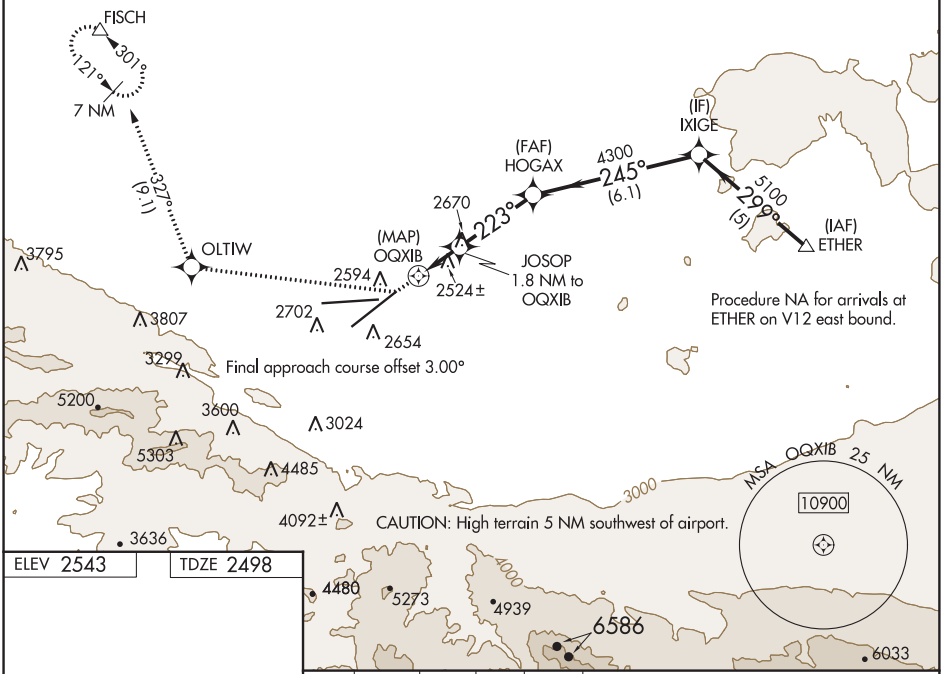
RNAV (GPS) RWY 22

PALMDALE USAF PLANT 42 (PMD)

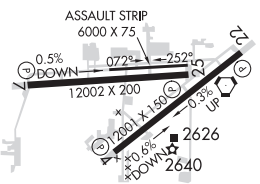
Circling NA for Cats C and D south of Rwys 4 and 25.
DME/DME RNP-0.3 NA.

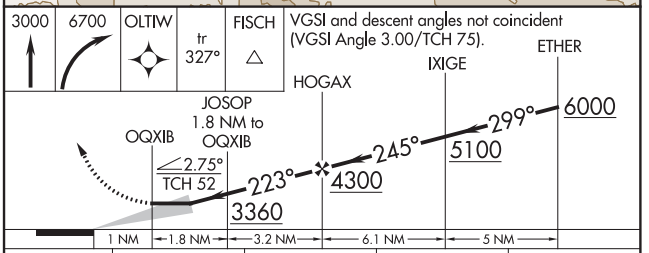
MISSED APPROACH: Climb to 3000 then climbing right turn to 6700 direct OLTIW and on track 327° to FISCH and hold, continue climb-in-hold to 6700.

ATIS	JOSHUA APP CON	PALMDALE TOWER ★	GND CON
118.275	124.55 363.0	123.7 (CTAF) L 317.6	121.9 317.6



ELEV 2543 TDZE 2498





CATEGORY	A	B	C	D
LP MDA	2780-1¼ 282 (300-1¼)			
LNAV MDA	2860-1¼ 362 (400-1¼)			
C CIRCLING	3020-1¼ 477 (500-1¼)	3060-1¼ 517 (600-1¼)	3140-1½ 597 (600-1½)	3740-3 1197 (1200-3)

REIL Rwys 4, 7, 22 and 25 L
HIRL Rwys 4-22 and 7-25 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

PALMDALE, CALIFORNIA | AL-310 (FAA) | 20142

WAAS CH 86520 W25A	APP CRS 254°	Rwy Idg 12002 TDZE 2503 Apt Elev 2543

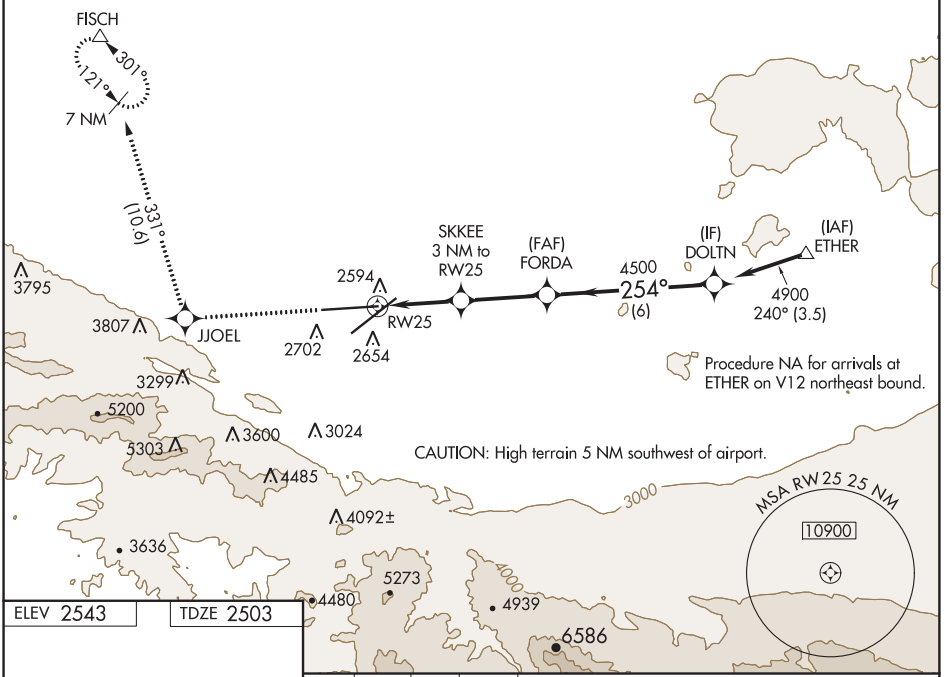
RNAV (GPS) RWY 25

PALMDALE USAF PLANT 42 (PMD)

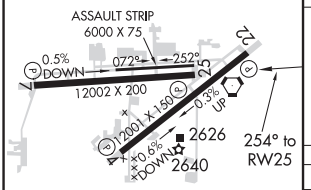
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -6°C (22°F) or above 50°C (123°F). Circling NA for Cats C and D south of Rwys 4 and 25. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb 6700 direct JJOEL and on track 331° direct FISCH and hold, continue climb-in-hold to 6700.

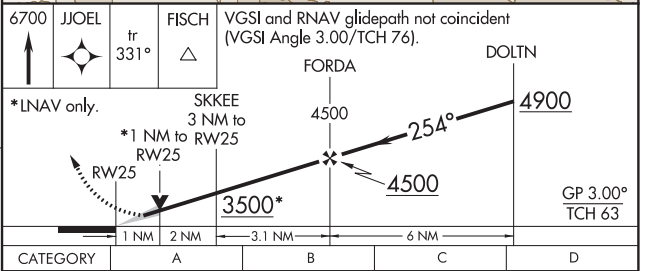
ATIS	JOSHUA APP CON	PALMDALE TOWER ★	GND CON
118.275	124.55 363.0	123.7 (CTAF) L 317.6	121.9 317.6



ELEV 2543 | TDZE 2503



REIL Rwys 4, 7, 22 and 25 L
HIRL Rwys 4-22 and 7-25 L



CATEGORY	A	B	C	D
LPV DA	2703-¾ 200 (200-¾)			
LNAV/VNAV DA	2806-1 303 (300-1)			
LNAV MDA	2880-1 377 (400-1)			
C CIRCLING	3020-1 477 (500-1)	3060-1 517 (600-1)	3140-1½ 597 (600-1½)	3740-3 1197 (1200-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC PMD	APP CRS	Rwy Idg	12002
114.5	265°	TDZE	2503
Chan 92		Apt Elev	2543

VOR or TACAN RWY 25

PALMDALE USAF PLANT 42 (PMD)

Circling NA for Cats C, D, and E south of Rwys 4 and 25.
DME required.

MISSED APPROACH: Climb to 5000 on PMD VORTAC R-282 then climbing right turn to 7000 direct PMD VORTAC and hold (TACAN aircraft climbing right turn to 6700 on PMD VORTAC R-298 to FISCH INT/ 14.3 DME and hold SE left turn 298° inbound, continue climb-in-hold to 6700).

ATIS	JOSHUA APP CON	PALMDALE TOWER ★	GND CON
118.275	124.55 363.0	123.7 (CTAF) L 317.6	121.9 317.6

DME REQUIRED

FISCH PMD 14.3
114.35 LHS Chan 90Y R-051 118° 298°
R-298
Procedure NA for arrival on PMD VORTAC airway radials 067 CW 142.
R-282
EKOTY PMD 0.3
STRAS PMD 2.5
THERO PMD 4
104°
284°
070°
R-070
4000
265° (3)
4300
265° (5)
R-085
(IF)
R-104
WUGIT PMD 7
CIVOK PMD 12
IAF PALMDALE 114.5 PMD Chan 92
2702
2654
2589±
2599±
3024
3600
3795
3926
3807
4333
3289
5200
4850
5303
4485
4092±
3636
4131
4480
5273
4939
6586
3000
4000
CAUTION: High terrain 5 NM southwest of airport.

MSA PMD 25 NM
160°
5400
7800
250°
11300
360°

ELEV 2543 TDZE 2503

5000	7000	PMD
PMD R-282		

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 76).

ASSAULT STRIP 6000 X 75
0.5% DOWN 072° 252° 25
12002 X 200
12001 X 150
0.3% UP
0.6% DOWN
2626
2640
22
265° 4.5 NM from FAF

PMD VORTAC 5200
070°
EKOTY PMD 0.3
STRAS PMD 2.5
THERO PMD 4
3.00° TCH 58
WUGIT PMD 7
CIVOK PMD 12
5200
265°
4000
4300
5200
3500
Remain within 15 NM of PMD VORTAC

0.5 | 0.3 | 2.2 NM | 1.5 NM | 3 NM | 5 NM

CATEGORY	A	B	C	D	E
S-25	2840-1 337 (300-1)				
C CIRCLING	3020-1 477 (500-1)	3060-1 517 (600-1)	3140-1½ 597 (600-1½)	3740-3 1197 (1200-3)	3760-3 1217 (1300-3)

REIL Rwys 4, 7, 22 and 25 L
HIRL Rwys 4-22 and 7-25 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

PALMDALE USAF PLANT 42 (PMD)

PALMDALE, CALIFORNIA

AL-310 (FAA)

SW-3, 06 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
PALMDALE, CALIFORNIA
PALMDALE USAF PLANT 42 (PMD)

WAAS	APP CRS	Rwy Idg	6008
CH 93843	194°	TDZE	812
W19A		Apt Elev	839

RNAV (GPS) RWY 19

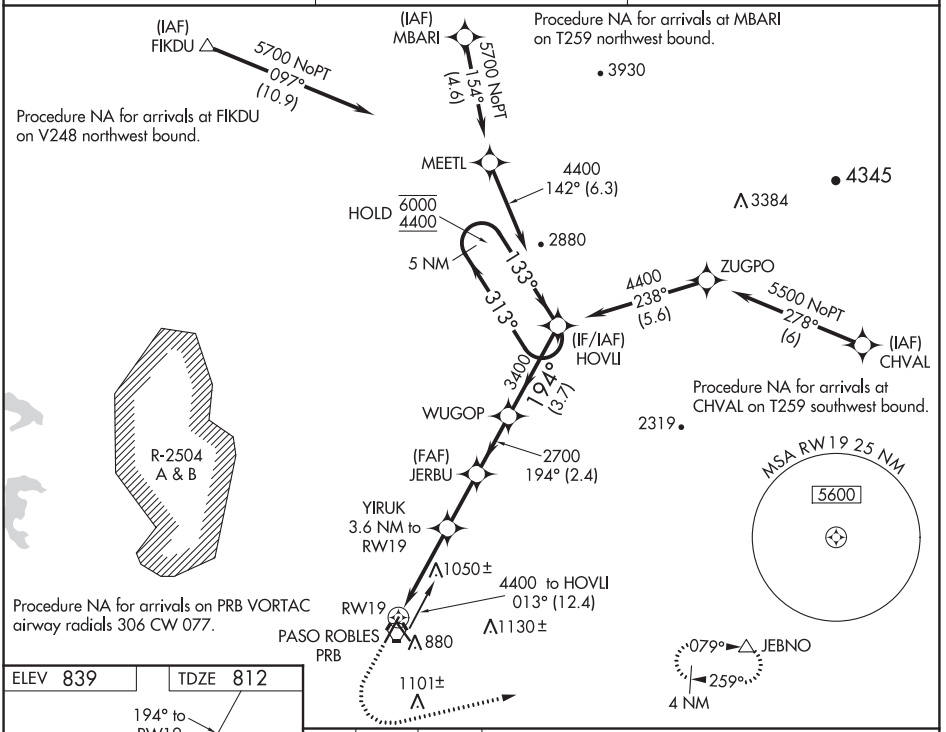
PASO ROBLES MUNI (PRB)

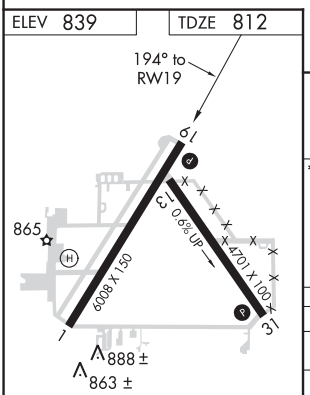
RNP APCH.

T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -5°C or above 54°C.

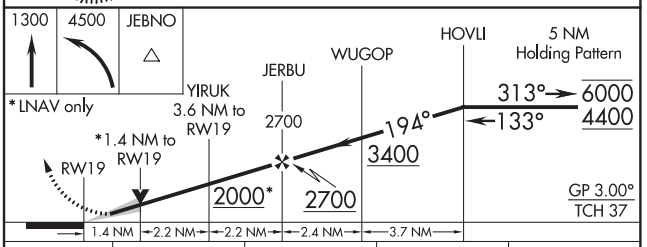
MISSED APPROACH: Climb to 1300 then climbing left turn to 4500 direct JEBNO and hold, continue climb-in-hold to 4500.

ASOS	OAKLAND CENTER	UNICOM
120.125	128.7 307.0	123.0 (CTAF) L





REIL Rwy 19
MIRL Rwy 13-31 L
HIRL Rwy 1-19 L



CATEGORY	A	B	C	D
LPV DA	1062-¾ 250 (300-¾)			
LNAV/VNAV DA	1109-⅞ 297 (300-⅞)			
LNAV MDA	1300-1 488 (500-1)		1300-1⅜ 488 (500-1⅜)	
C CIRCLING	1300-1 461 (500-1)	1380-1 541 (600-1)	1440-1¾ 601 (700-1¾)	1700-2¾ 861 (900-2¾)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

PASO ROBLES, CALIFORNIA | AL-858 (FAA) | 20254

APP CRS	Rwy Idg	4701
309°	TDZE	839
	Apt Elev	839

RNAV (GPS) RWY 31

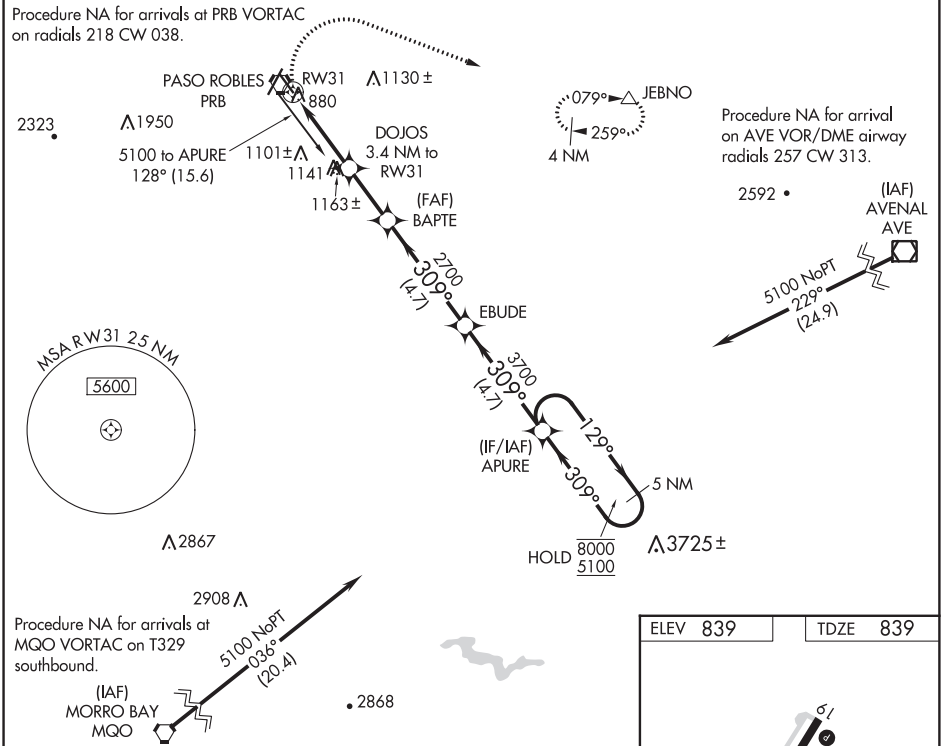
PASO ROBLES MUNI (PRB)

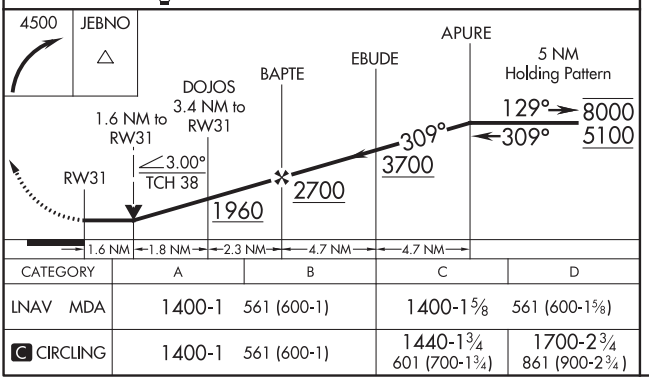
RNP APCH.

Rwy 31 helicopter visibility reduction below ¾ SM NA.

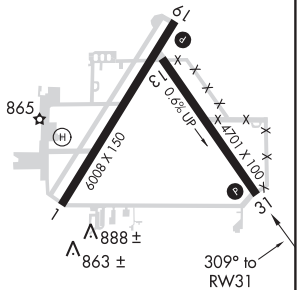
MISSED APPROACH: Climbing right turn to 4500 direct JEBNO and hold, continue to climb-in-hold to 4500.

ASOS	OAKLAND CENTER	UNICOM
120.125	128.7 307.0	123.0 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1400-1	561 (600-1)	1400-1⅝	561 (600-1⅝)
C CIRCLING	1400-1	561 (600-1)	1440-1¾ 601 (700-1¾)	1700-2¾ 861 (900-2¾)



REIL Rwy 19
MIRL Rwy 13-31 L
HIRL Rwy 1-19 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC PRB	APP CRS	Rwy Idg	6008
114.3	172°	TDZE	812
Chan 90		Apt Elev	839

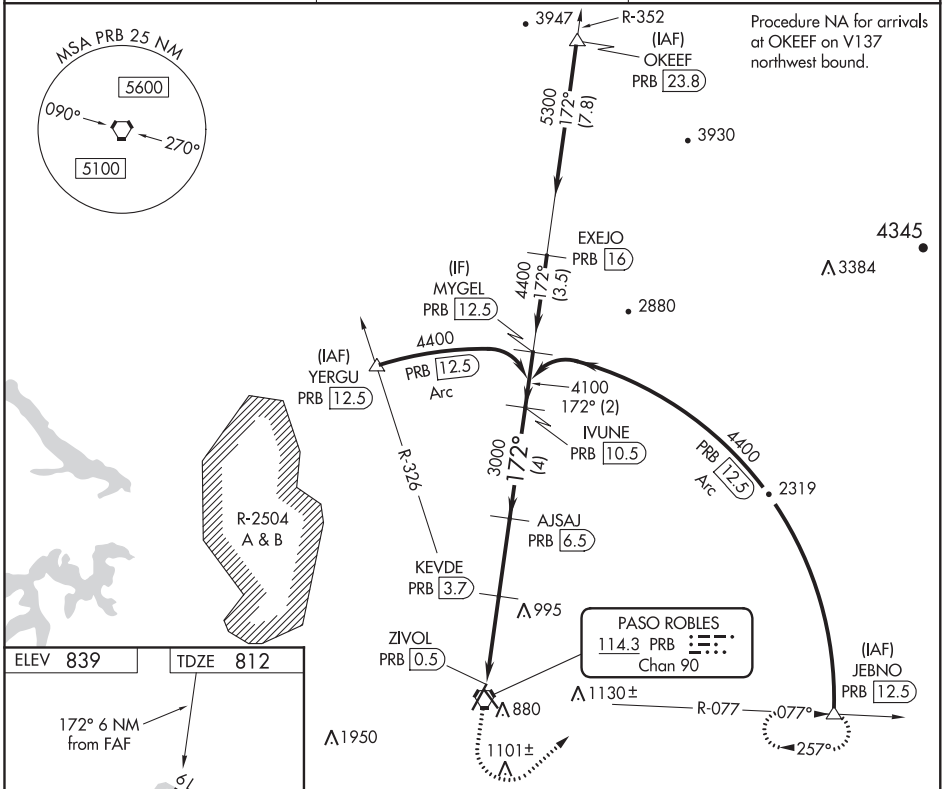
VOR RWY 19

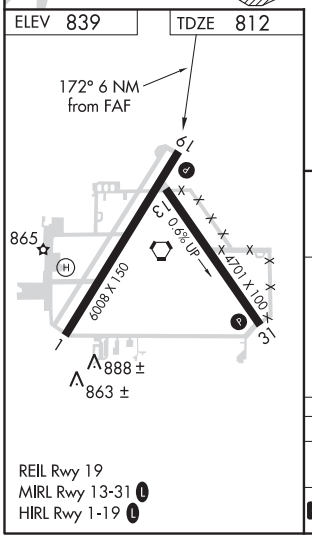
PASO ROBLES MUNI (PRB)

DME required.

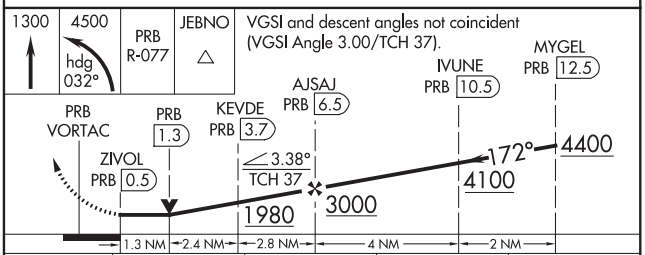
MISSED APPROACH: Climb to 1300 then climbing left turn to 4500 on heading 032° and PRB R-077 to JEBNO/PRB 12.5 DME and hold, continue climb-in-hold to 4500.

ASOS	OAKLAND CENTER	UNICOM
120.125	128.7 307.0	123.0 (CTAF) L





REIL Rwy 19
MIRL Rwy 13-31 L
HIRL Rwy 1-19 L



CATEGORY	A	B	C	D
S-19	1260-1 448 (500-1)		1260-1⅜ 448 (500-1⅜)	
C CIRCLING	1300-1 461 (500-1)	1380-1 541 (600-1)	1440-1¾ 601 (700-1¾)	1720-3 881 (900-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

PASO ROBLES, CALIFORNIA | AL-858 (FAA) | 20254

VORTAC PRB	APP CRS	Rwy Idg	N/A
114.3	313°	TDZE	N/A
Chan 90		Apt Elev	839

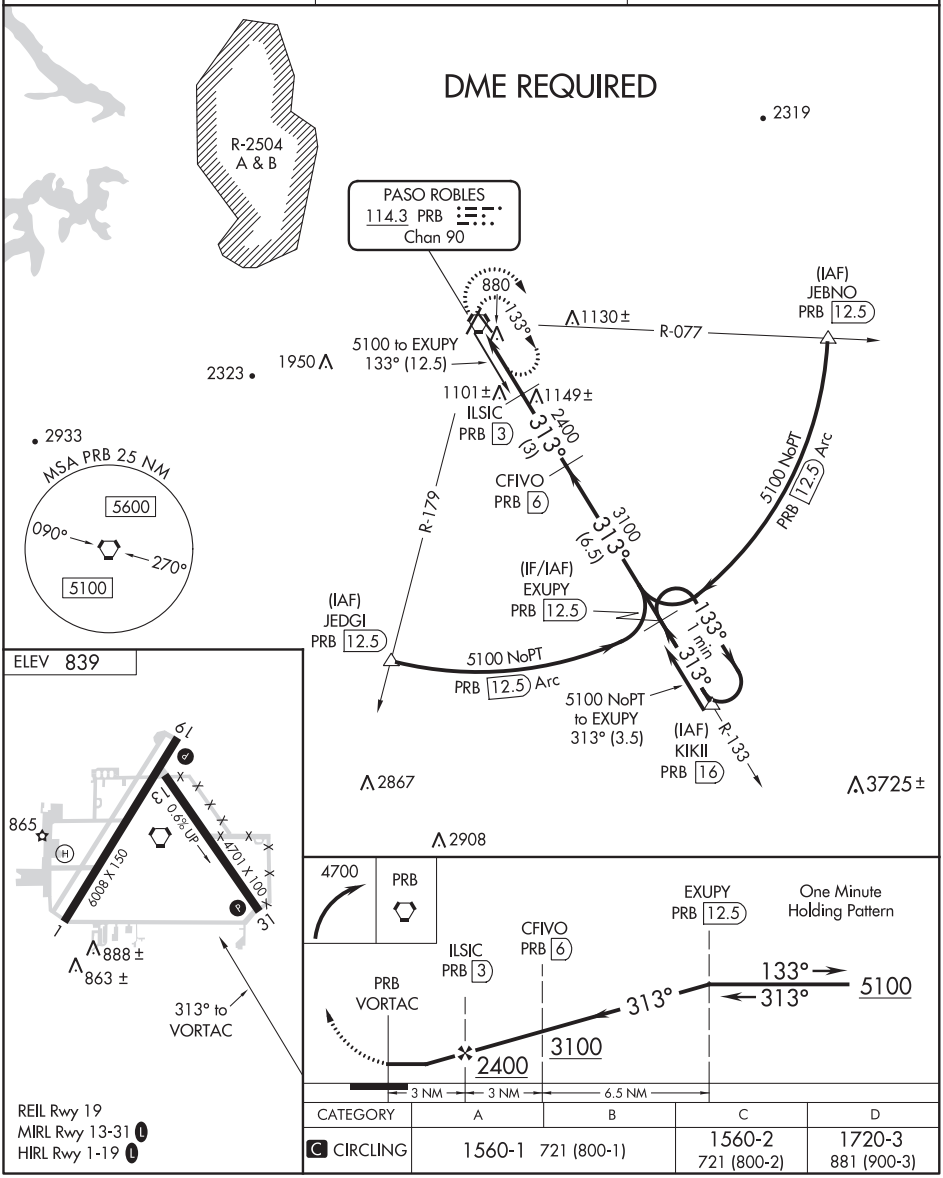
VOR-B

PASO ROBLES MUNI (PRB)

DME required.

MISSED APPROACH: Climbing right turn to 4700 in PRB VORTAC holding pattern, continue climb-in hold to 4700.

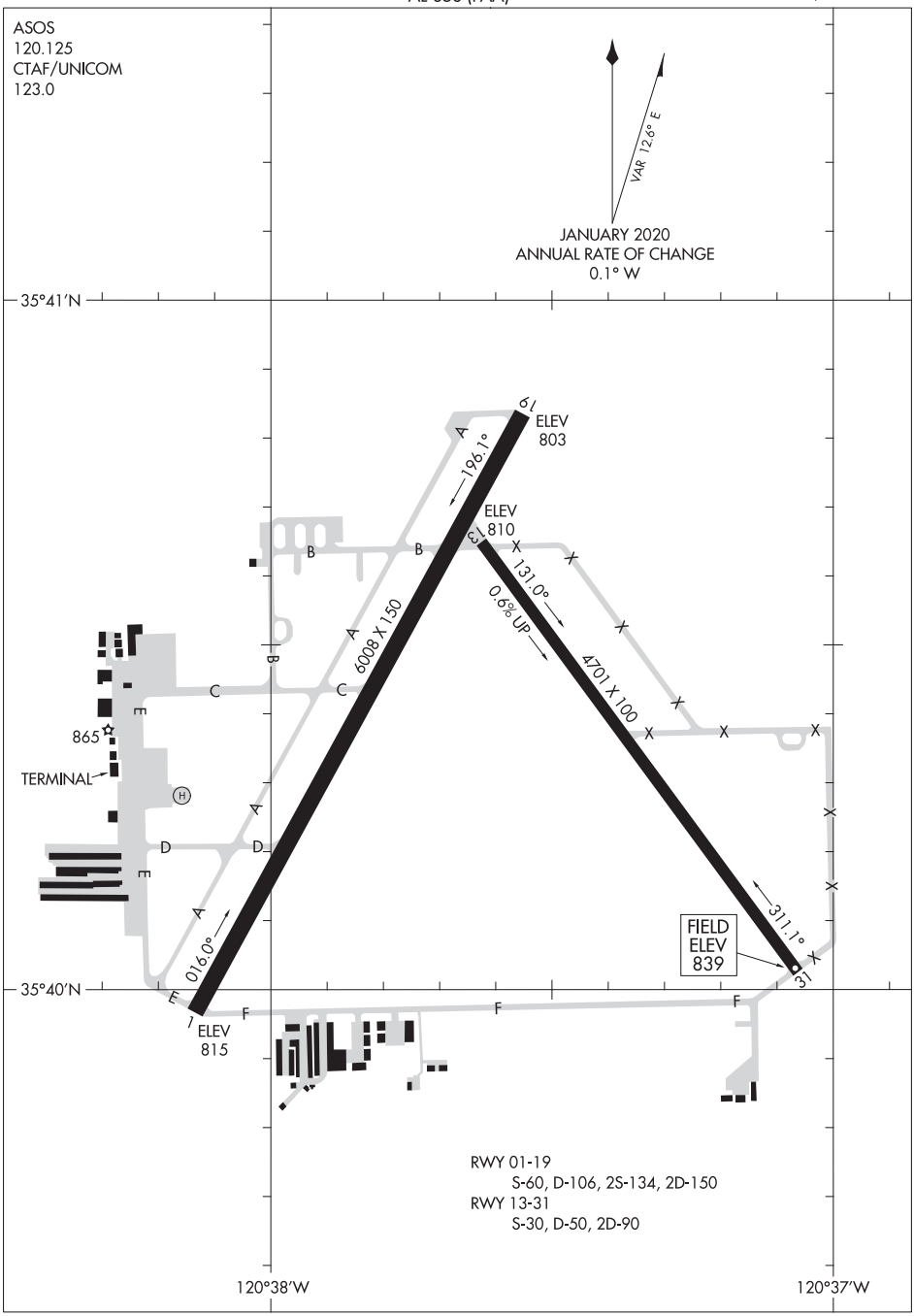
ASOS	OAKLAND CENTER	UNICOM
120.125	128.7 307.0	123.0 (CTAF) L



REIL Rwy 19
MIRL Rwy 13-31 L
HIRL Rwy 1-19 L

CATEGORY	A	B	C	D
C CIRCLING	1560-1	721 (800-1)	1560-2 721 (800-2)	1720-3 881 (900-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020



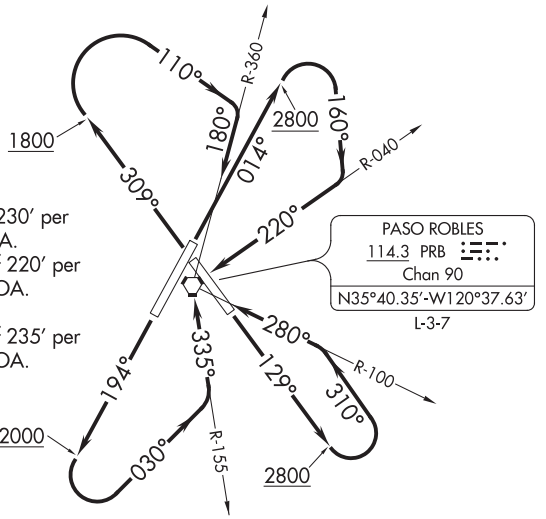
SW-3, 05 NOV 2020 to 31 DEC 2020

(PRB1.PRB) 20142

PASO ROBLES ONE DEPARTURE (OBSTACLE)

PASO ROBLES MUNI (PRB)
AL-858 (FAA) PASO ROBLES, CALIFORNIA

ASOS
120.125
OAKLAND CENTER
128.7 307.0
CTAF
123.0



TAKEOFF MINIMUMS

Rwy 1: Standard with minimum climb of 230' per NM to 2200, or 1500-3 for VCOA.
Rwy 13: Standard with minimum climb of 220' per NM to 1700, or 1500-3 for VCOA.
Rwy 19: Standard.
Rwy 31: Standard with minimum climb of 235' per NM to 2200, or 1500-3 for VCOA.

TAKEOFF OBSTACLE NOTES

Rwy 1: Lighting 9' from DER, 115' right of centerline, 804' MSL.
Lighting 10' from DER, 113' left of centerline, 805' MSL.
Tree 301' from DER, 425' left of centerline, 812' MSL.
Rwy 13: Pole 34' from DER, 29' left of centerline, 840' MSL.
Trees, pole beginning 766' from DER, 395' left of centerline, up to 900' MSL.
Trees beginning 1656' from DER, 389' left of centerline, up to 906' MSL.
Trees beginning 1746' from DER, 13' left of centerline, up to 910' MSL.
Tree 1948' from DER, 1' right of centerline, 907' MSL.
Trees beginning 2045' from DER, 56' left of centerline, up to 911' MSL.
Trees beginning 2256' from DER, 409' left of centerline, up to 915' MSL.
Tree 2581' from DER, 511' left of centerline, 917' MSL.
Trees beginning 2601' from DER, 635' left of centerline, up to 923' MSL.
Tree 3261' from DER, 856' left of centerline, 932' MSL.
Tree 3860' from DER, 952' left of centerline, 944' MSL.
Tree 3961' from DER, 784' left of centerline, 950' MSL.
Rwy 19: Pole 10' from DER, 39' left of centerline, 815' MSL.
Tree 992' from DER, 705' left of centerline, 851' MSL.
Trees beginning 1098' from DER, 618' left of centerline, up to 876' MSL.
Rwy 31: Wind indicator 78' from DER, 334' right of centerline, 823' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

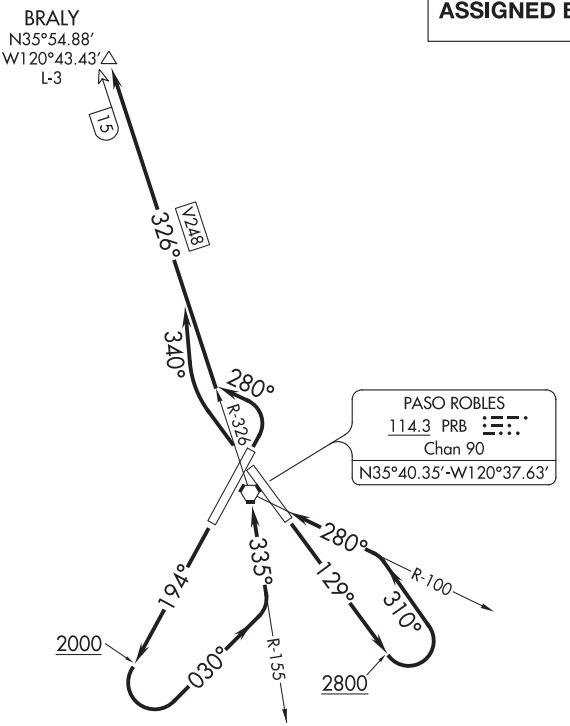
TAKEOFF RUNWAY 1: Climb on heading 014° to 2800 then climbing right turn heading 160° to intercept PRB VORTAC R-040 to PRB VORTAC before proceeding on course.
TAKEOFF RUNWAY 13: Climb on heading 129° to 2800 then climbing left turn heading 310° to intercept PRB VORTAC R-100 to PRB VORTAC before proceeding on course.
TAKEOFF RUNWAY 19: Climb on heading 194° to 2000 then climbing left turn heading 030° to intercept PRB VORTAC R-155 to PRB VORTAC before proceeding on course.
TAKEOFF RUNWAY 31: Climb on heading 309° to 1800 then climbing right turn heading 110° to intercept PRB VORTAC R-360 to PRB VORTAC before proceeding on course.

VCOA RUNWAYS 1, 13, 31: Obtain ATC approval for VCOA when requesting IFR clearance. Climb-in-visual conditions to cross PRB VORTAC at or above 2200 before proceeding on course.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

ASOS
120.125
OAKLAND CENTER
128.7 307.0
CTAF
123.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: DME required.

TAKEOFF MINIMUMS
Rwy 1: Standard with minimum climb of 235' per NM to 2200.
Rwy 13: Standard with minimum climb of 220' per NM to 1700.
Rwy 19: Standard.
Rwy 31: Standard with minimum climb of 235' per NM to 2200.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climbing left turn on heading 280° to intercept PRB VORTAC R-326 to BRALY/PRB 15 DME, thence. . . .

TAKEOFF RUNWAY 13: Climb on heading 129° to 2800 then climbing left turn heading 310° to intercept PRB VORTAC R-100 to PRB VORTAC, then on R-326 to BRALY/PRB 15 DME, thence . . . .

TAKEOFF RUNWAY 19: Climb on heading 194° to 2000 then climbing left turn heading 030° to intercept PRB VORTAC R-155 to PRB VORTAC, then on R-326 to BRALY/PRB 15 DME, thence . . . .

TAKEOFF RUNWAY 31: Climbing right turn heading 340° and PRB VORTAC R-326 to BRALY/PRB 15 DME, thence . . . .

. . . . maintain ATC assigned altitude; expect clearance to filed altitude 10 minutes after departure.

(JEDGI1.JEDGI) 20142

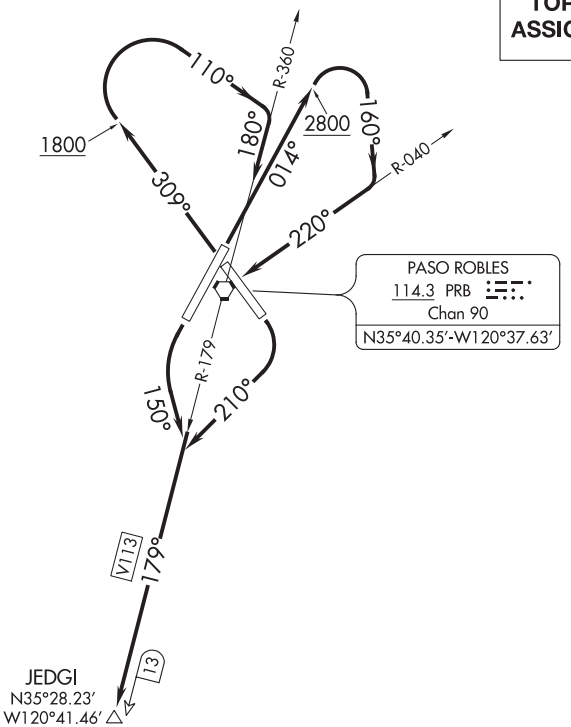
JEDGI ONE DEPARTURE

AL-858 (FAA)

PASO ROBLES MUNI (PRB)
PASO ROBLES, CALIFORNIA

ASOS
120.125
OAKLAND CENTER
128.7 307.0
CTAF
123.0

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS

Rwy 1: Standard with minimum climb of 230' per NM to 2200.
Rwy 13: Standard with minimum climb of 220' per NM to 1700.
Rwy 19: Standard.
Rwy 31: Standard with minimum climb of 235' per NM to 2200.

NOTE: DME required.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb on heading 014° to 2800 then climbing right turn heading 160° to intercept PRB VORTAC R-040 to PRB VORTAC, then on R-179 to JEDGI/PRB 13 DME, thence. . . .

TAKEOFF RUNWAY 13: Climbing right turn on heading 210° to intercept PRB VORTAC R-179 to JEDGI/PRB 13 DME, thence. . . .

TAKEOFF RUNWAY 19: Climbing left turn on heading 150° to intercept PRB VORTAC R-179 to JEDGI/PRB 13 DME, thence. . . .

TAKEOFF RUNWAY 31: Climb on heading 309° to 1800 then climbing right turn heading 110° to intercept PRB VORTAC R-360 to PRB VORTAC, then on R-179 to JEDGI/PRB 13 DME, thence. . . .

. . . .maintain ATC assigned altitude; expect clearance to filed altitude 10 minutes after departure.

OXNARD, CALIFORNIA

ILS Y or LOC/DME RWY 21

POINT MUGU NAS
(NAVAL BASE VENTURA CO)(KNTD)

LOC/DME I-RRG	APCH CRS	Rwy ldg 11,102
109.3	212°	TDZE 13
Chan 30		Arpt Elev 13

AL-925 [USN]

* When ALS inop, increase vis CAT ABCD to ¾ mile.
** When ALS inop, increase vis CAT AB to 1 mile, CAT CD vis to 1⅛ miles.
*** Circling not authorized E of Rwy 3-21.

MALSR (A5)

MISSED APPROACH: Climb to 500 via hdg 212°, then climbing right turn to 3000 via hdg 247°, then climbing right turn to 5000 direct CMA VOR/DME, then via CMA R-071 to CIELO and hold.

ATIS ★	POINT MUGU APP CON	POINT MUGU TOWER ★	GND CON	CLNC DEL	ASR/PAR
125.55 363.05	128.65 307.275	124.85 290.375	121.6 360.2	120.75 279.55	

CAUTION: WCH for B-747/DC-10/C-17 type aircraft 17' AGL.

FILLMORE
112.5 FIM
Chan 72

CAMARILLO
115.8 CMA
Chan 105

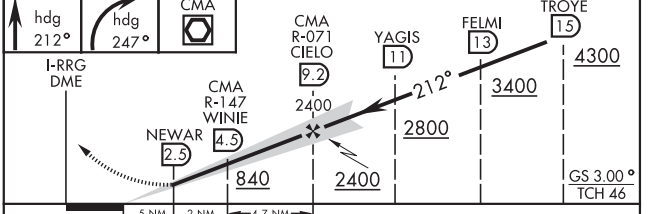
LOCALIZER 109.3
I-RRG
Chan 30

1855
1383
I-RRG 15.2
R-194
4300
194°
(4.8)
032°
1015
Max holding alt 6000
Min holding alt 4300
(IAF)
TROYE
I-RRG 15
230K
032°
212°
FELMI
I-RRG 13
1310
R-071
YAGIS
I-RRG 11
R-147
600
CIELO
I-RRG 9.2
126
186
WINIE
I-RRG 4.5
248
3111

MSA CMA 2.5 NM
8600
210°
090°
5600
4000
320°

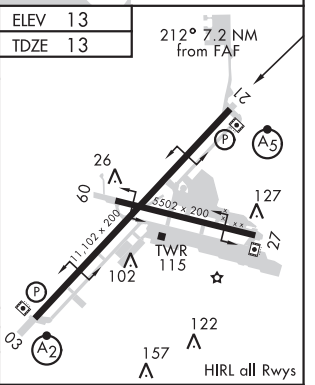
DME or
RADAR REQUIRED
EMERG SAFE ALT 100 NM 12,100

500	3000	5000
hdg 212°	hdg 247°	CMA



ELEV 13
TDZE 13

212° 7.2 NM from FAF



CATEGORY	A	B	C	D
S-ILS 21 *	213-½ 200 (200-½)			
S-LOC 21 **	420-½ 407 (500-½)		420-¾ 407 (500-¾)	
CIRCLING ***	440-1 427 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)

FAF to MAP 6.7 NM

Knots	60	90	120	150	180
Min:Sec	6:42	4:28	3:21	2:41	2:14

OXNARD, CALIFORNIA
Amdt 2 27APR17

34°07'N-119°07'W

POINT MUGU NAS(KNTD)
(NAVAL BASE VENTURA CO)

ILS Y or LOC/DME RWY 21

SW-3, 05 NOV 2020 to 31 DEC 2020

19199

OXNARD, CALIFORNIA

ILS Z or LOC/DME RWY 21

POINT MUGU NAS
(NAVAL BASE VENTURA CO)(KNTD)

AL-925 [USN]

LOC/DME I-RRG	APCH CRS	Rwy ldg 11,102
109.3	212°	TDZE 13
Chan 30		Arpt Elev 13

* When ALS inop, increase vis CAT ABCD to ¾ mile.
** When ALS inop, increase vis CAT AB to 1 mile, CAT CD vis to 1⅛ miles.
*** Circling not authorized E of Rwy 3-21.

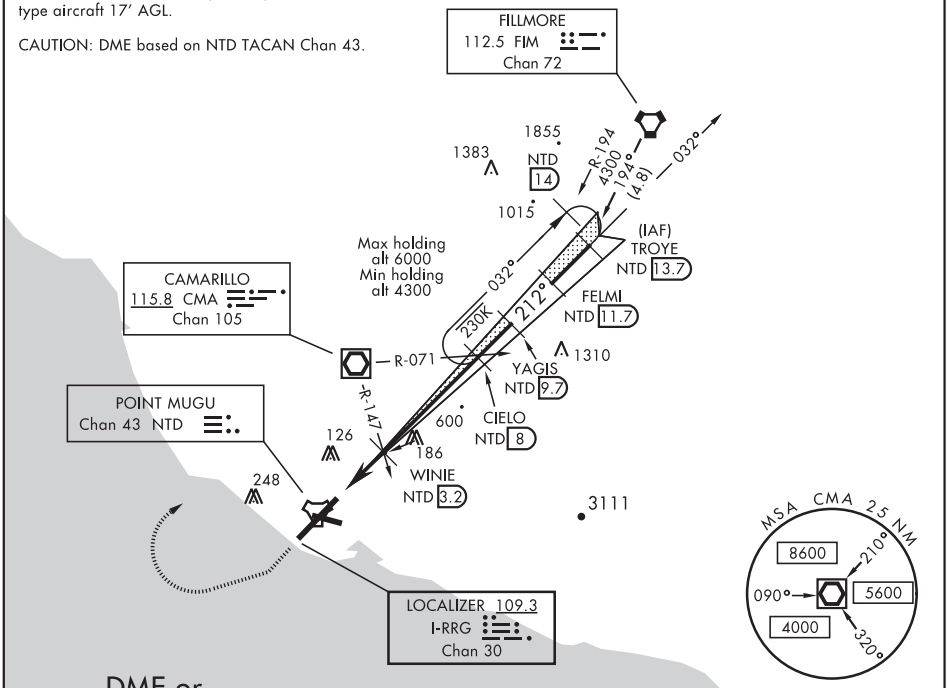
MALSR (A5)

MISSED APPROACH: Climb to 500 via hdg 212°, then climbing right turn to 3000 via hdg 247°, then climbing right turn to 5000 direct CMA VOR/DME, then via CMA R-071 to CIELO and hold.

ATIS ★	POINT MUGU APP CON	POINT MUGU TOWER ★	GND CON	CLNC DEL	ASR/PAR
125.55 363.05	128.65 307.275	124.85 290.375	121.6 360.2	120.75 279.55	

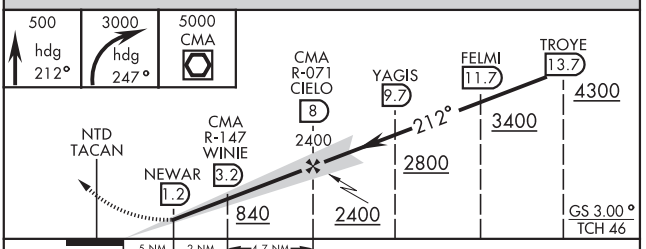
CAUTION: WCH for B-747/DC-10/C-17 type aircraft 17' AGL.

CAUTION: DME based on NTD TACAN Chan 43.



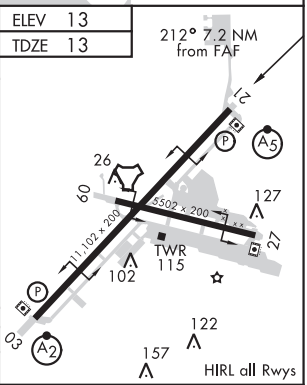
DME or RADAR REQUIRED

EMERG SAFE ALT 100 NM 12,100



CATEGORY	A	B	C	D
S-ILS 21 *	213-½ 200 (200-½)			
S-LOC 21 **	420-½ 407 (500-½)		420-¾ 407 (500-¾)	
CIRCLING ***	440-1 427 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)

ELEV 13
TDZE 13



FAF to MAP 6.7 NM					
Knots	60	90	120	150	180
Min:Sec	6:42	4:28	3:21	2:41	2:14

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

OXNARD, CALIFORNIA

RNAV (GPS) RWY 3

AL-925 (USN)

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

APCH CRS	Rwy ldg	11,102
032°	TDZE	10
	Arpt Elev	13

* When ALS inop, increase CAT D vis to 7/8 mile.
** When ALS inop, increase CAT ABCD vis to 1 mile.
*** Circling not authorized E of Rwy 3-21.

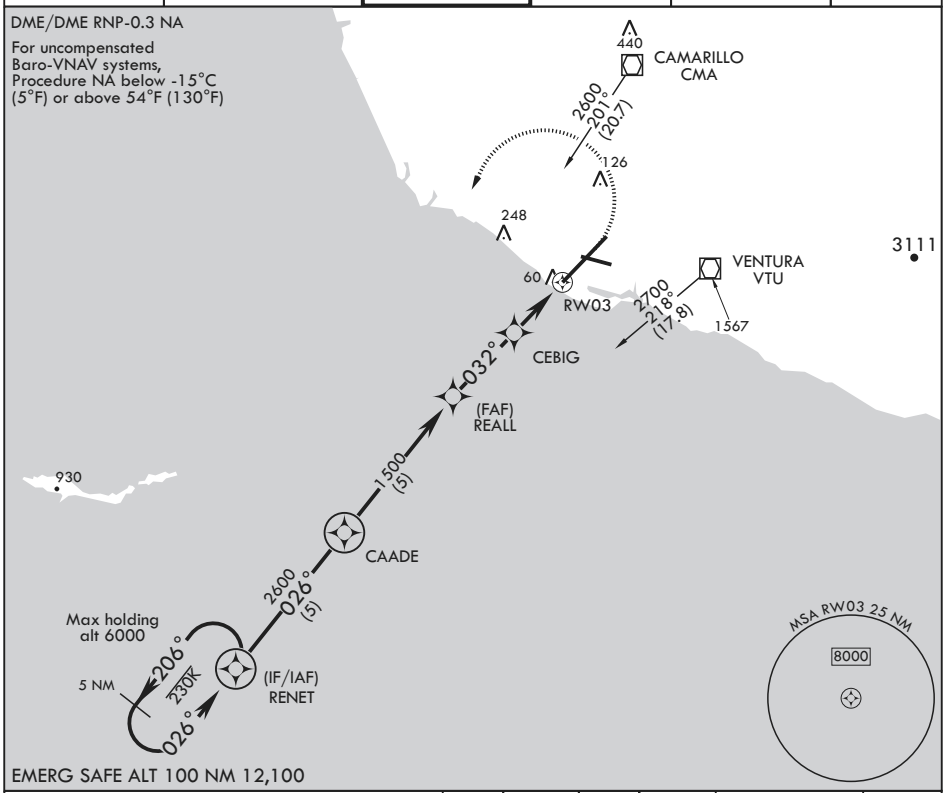
SALS (A2)

MISSED APPROACH: Climb to 500 then climbing left turn to 2600 direct RENET and hold.

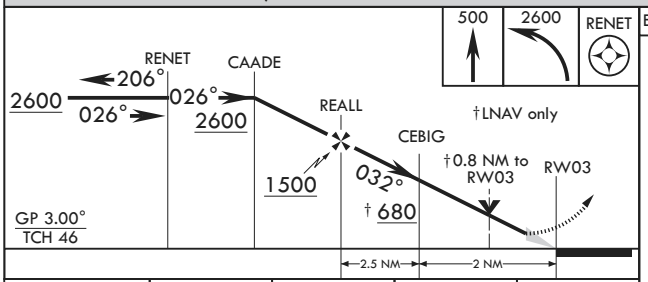
ATIS★	APP CON/DEP CON	TOWER★	GND CON	CLNC DEL	ASR/PAR
125.55 363.05	128.65 307.275	124.85 290.375	121.6 360.2	120.75 279.55	

DME/DME RNP-0.3 NA

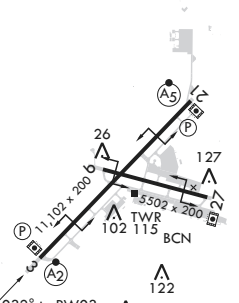
For uncompensated Baro-VNAV systems, Procedure NA below -15°C (5°F) or above 54°F (130°F)



EMERG SAFE ALT 100 NM 12,100



ELEV 13 TDZE 10



CATEGORY	A	B	C	D
LNAV/VNAV DA*	261-¾	251	(300-¾)	266-¾ 256 (300-¾)
LNAV MDA**	320-¾	310	(400-¾)	
CIRCLING***	440-1 427 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

19199

OXNARD, CALIFORNIA

RNAV (GPS) RWY 21

AL-925 (USN)

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

APCH CRS	Rwy ldg	11,102
212°	TDZE	13
	Arpt Elev	13

* When ALS inop increase CAT ABCD vis to 7/8 mile.
** When ALS inop, increase CAT AB vis to 1 mile; CAT CD vis to 1 1/8 miles.
*** Circling not authorized E of Rwy 3-21

MALSR (A5)

MISSED APPROACH: Climb to 500 then climbing left turn to 2600 direct RENET and hold.

ATIS★	APP CON/DEP CON	TOWER★	GND CON	CLNC DEL	ASR/PAR
125.55 363.05	128.65 307.275	124.85 290.375	121.6 360.2	120.75 279.55	

DME/DME RNP-0.3 NA

For uncompensated Baro-VNAV systems, Procedure NA below -15°C (5°F) or above 54°C (130°F)

CAUTION: Intermediate descent gradient (279 fpm) greater than DoD standard.

FILLMORE FIM

1855

4000 NoPT (4.8) 197°

2287

215°

(IAF/IF) TROYE

200K

4 NM

035°

2900

212° (4)

Mand holding alt 4000

4000 050° (9.4)

CIRET

CAMARILLO CMA

1310

(FAF) CIELO

2400 (1.8)

554

KOCKA

248

RW21

2999

930

MSA RW21 25 NM

8000

5 NM

206°

230K

026°

RENET 200K

EMERG SAFE ALT 100 NM 12,100

500 | 2600 | RENET

†LNAV only

TROYE 035° 4000

CIRET 212° 215° 4000

CIELO 2900

KOCKA

RW21 †1.1 NM to RW21

880† 2400

GP 3.06°

TCH 46

2.6 NM 4.6 NM

ELEV 13 TDZE 13

212° to RW21

(A5)

26 25

5502 x 200

11,102 x 200

TWR 102 115

27

122

157

(A2)

HIRL all Rwys

CATEGORY	A	B	C	D
LNAV/VNAV DA*	289-½	276	(300-½)	
LNAV MDA**	420-½ 407 (500-½)		420-¾ 407 (500-¾)	
CIRCLING***	440-1 427 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)

OXNARD, CALIFORNIA

TACAN RWY 21

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

TACAN	APCH CRS	Rwy ldg	11,102
NTD Chan 43	216°	TDZE	13
		Arpt Elev	13

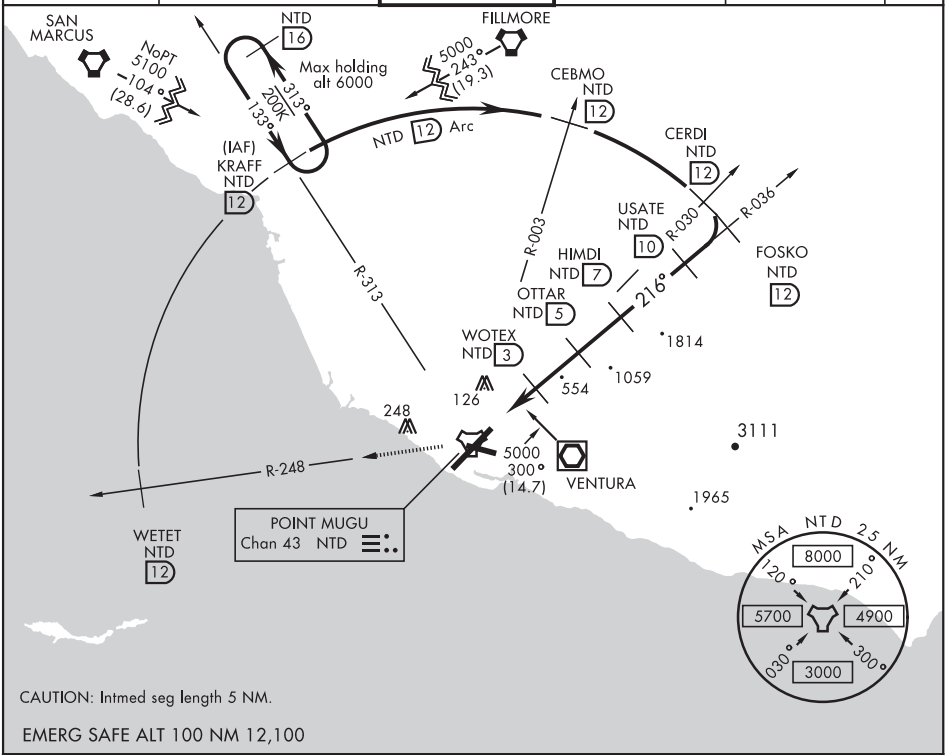
AL-925 [USN]

* When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1⅛ miles.
** Circling not authorized E of Rwy 3-21

MALSR A5

MISSED APPROACH: Climb to 5000 via NTD TACAN R-036 to NTD, then via NTD R-248 to WETET. Arc NW on NTD 12 DME arc to KRAFF and hold.

ATIS ★	POINT MUGU APP CON	POINT MUGU TOWER ★	GND CON	CLNC DEL	ASR/PAR
125.55 363.05	128.65 307.275	124.85 290.375	121.6 360.2	120.75 279.55	

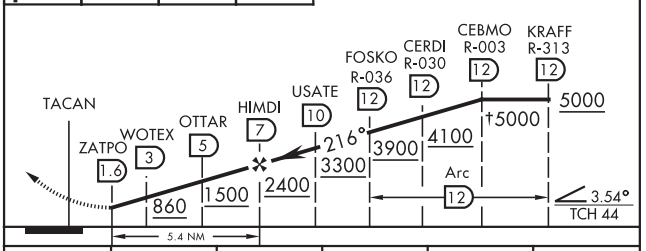


SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

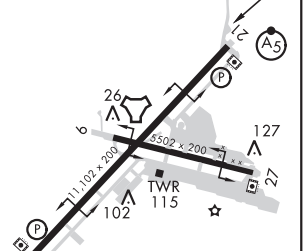
5000 NTD R-036	NTD	WETET NTD 12	Arc NW to KRAFF

† Or as assigned.



CATEGORY	A	B	C	D	E
S-21 *	420-⅝ 407 (500-⅝)		420-¾ 407 (500-¾)		NA
CIRCLING **	440-1 427 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)	NA

ELEV	13
TDZE	13



OXNARD, CALIFORNIA
Amdt 3 14SEP17

34°07'N-119°07'W

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)
TACAN RWY 21

19199

OXNARD, CALIFORNIA

TACAN Y or VOR/DME RWY 3

AL-925 [USN] POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

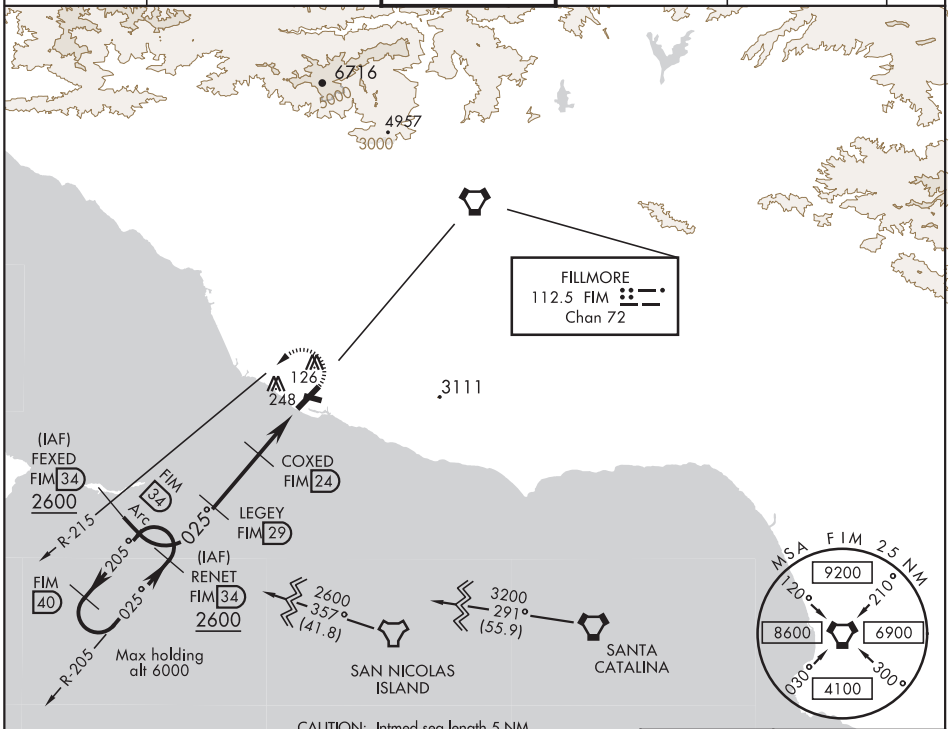
VORTAC FIM 112.5 Chan 72	APCH CRS 025°	Rwy ldg 11,102 TDZE 10 Arpt Elev 13

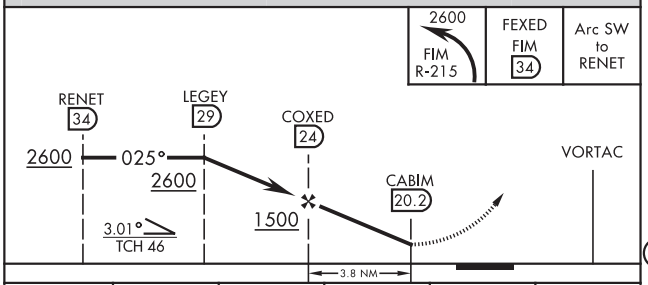
* When ALS inop, increase CAT AB vis to 1 mile, CAT CDE to 1⅜ miles.
** Circling not authorized E of Rwy 3-21.

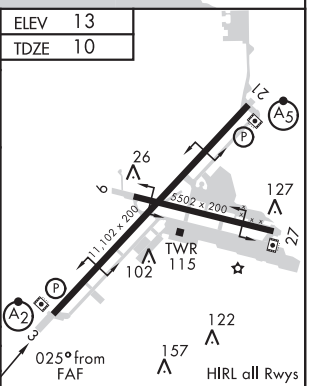
SALSF

MISSED APPROACH: Climbing left turn to 2600. Intercept the FIM VORTAC R-215, then via FIM R-215 to FEXED, Arc SW of FIM via the 34 DME arc to RENET and hold.

ATIS ★	POINT MUGU APP CON	POINT MUGU TOWER ★	GND CON	CLNC DEL	ASR/ PAR
125.55 363.05	128.65 307.275	124.85 290.375	121.6 360.2	120.75 279.55	







CATEGORY	A	B	C	D	E
S-3 *	460-¾ 450 (500-¾)		460-1 450 (500-1)		
CIRCLING **	460-1 447 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)	NA

FAF to MAP 3.8 NM					
Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16

OXNARD, CALIFORNIA 34°07′N-119°07′W POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

Amdt 4 27APR17

TACAN Y or VOR/DME RWY 3

SW-3, 05 NOV 2020 to 31 DEC 2020

OXNARD, CALIFORNIA

TACAN Z RWY 3

POINT MUGU NAS
(NAVAL BASE VENTURA CO)(KNTD)

TACAN	APCH CRS	Rwy Idg	11,102
Chan 43 NTD	026°	TDZE	10
		Arpt Elev	13

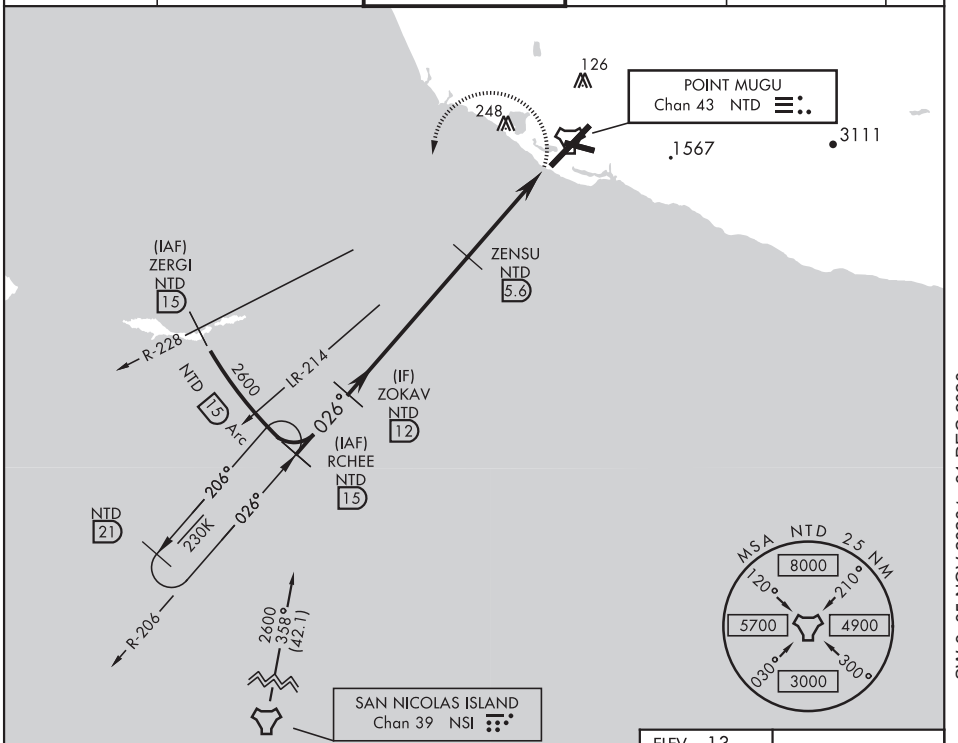
AL-925 [USN]

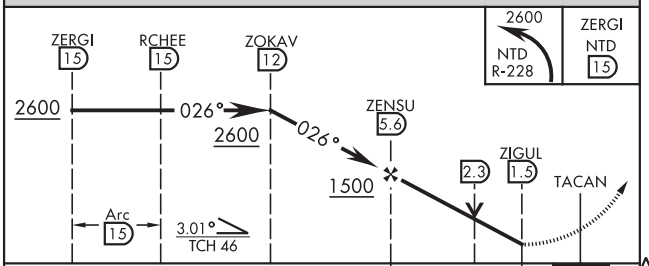
▼ *When ALS inop, increase CAT AB vis to 1 mile, CAT CDE vis to 1⅜ miles.
**Circling not authorized E of Rwy 3-21.

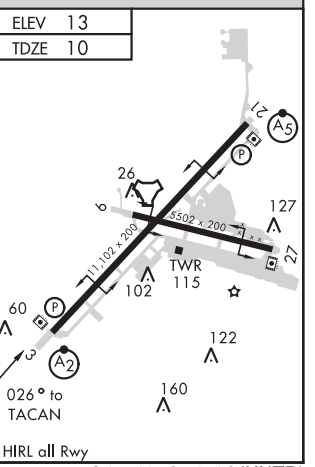
SALSF

MISSED APPROACH: Climbing left turn to 2600. Intercept the NTD TACAN R-228, then via NTD R-228 to ZERGI, Arc SW of NTD via the 15 DME arc to RCHEE and hold.

ATIS ★	POINT MUGU APP CON	POINT MUGU TOWER ★	GND CON	CLNC DEL	ASR/ PAR
125.55 363.05	128.65 307.275	124.85 290.375	121.6 360.2	120.75 279.55	







CATEGORY	A	B	C	D	E
S-3 *	460-¾ 450 (500-¾)		460-1 450 (500-1)		
CIRCLING **	460-1 447 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)	NA

OXNARD, CALIFORNIA
Amdt 2 27APR17

34°07'N-119°07'W

POINT MUGU NAS (KNTD)
(NAVAL BASE VENTURA CO)
TACAN Z RWY 3

SW-3, 05 NOV 2020 to 31 DEC 2020

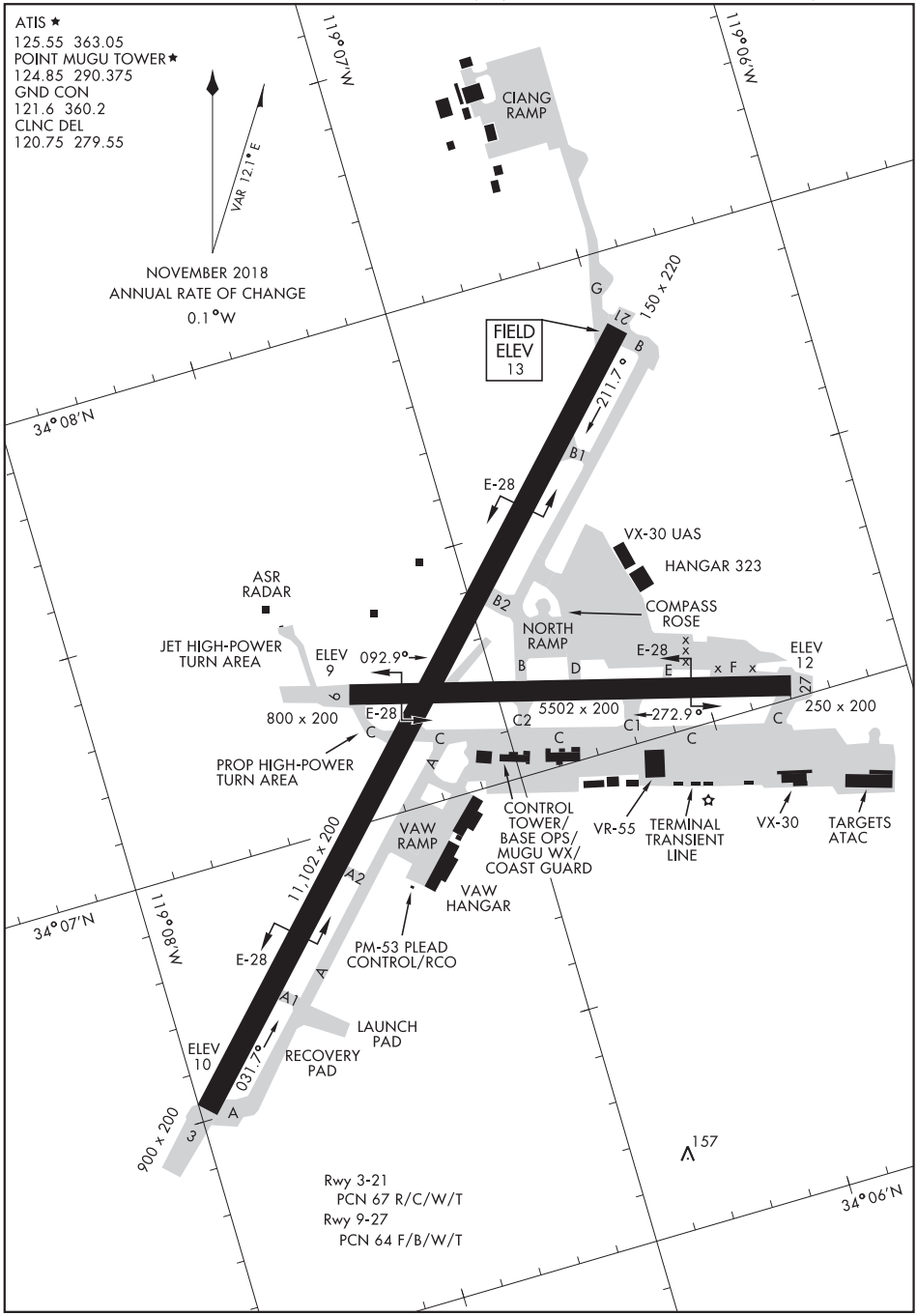
18312

AIRPORT DIAGRAM

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

AFD-925 (MIL)

OXNARD, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

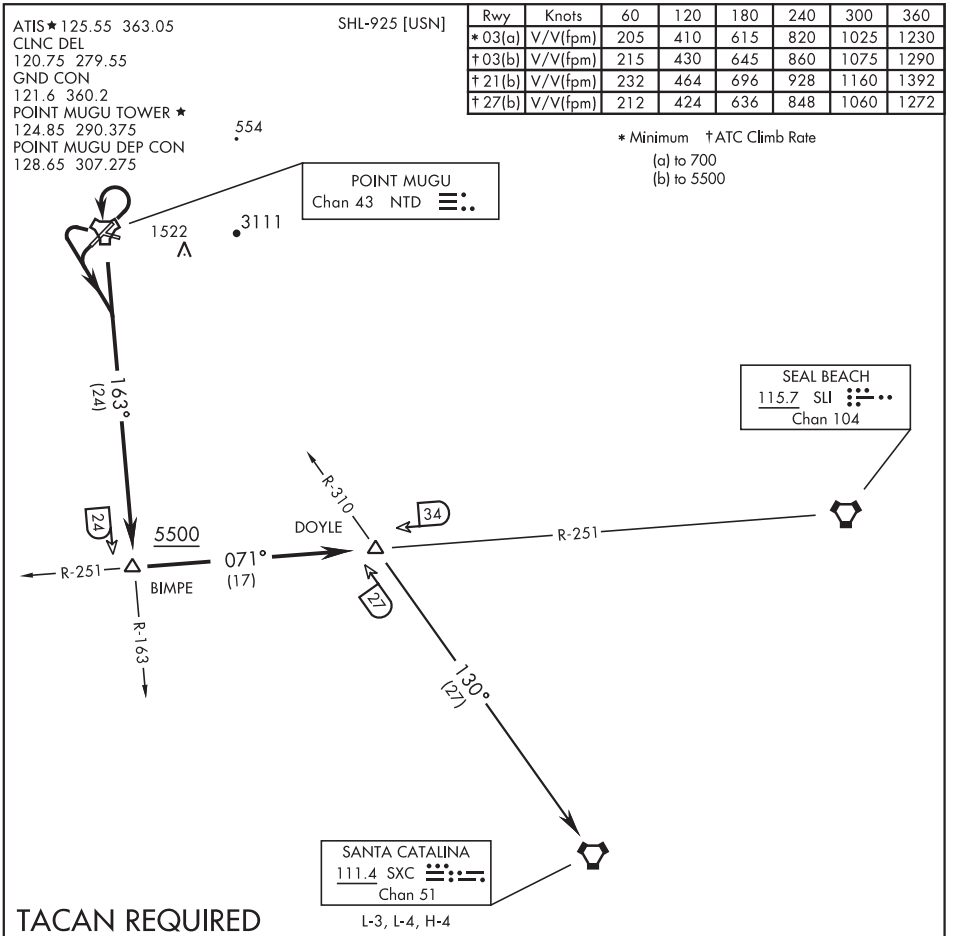
AIRPORT DIAGRAM

OXNARD, CALIFORNIA

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

DOYLE-NINE DEPARTURE (DOYLE 9 • DOYLE)

OXNARD, CALIFORNIA



Rwy	Knots	60	120	180	240	300	360
* 03(a)	V/V(fpm)	205	410	615	820	1025	1230
† 03(b)	V/V(fpm)	215	430	645	860	1075	1290
† 21(b)	V/V(fpm)	232	464	696	928	1160	1392
† 27(b)	V/V(fpm)	212	424	636	848	1060	1272

* Minimum † ATC Climb Rate
(a) to 700
(b) to 5500

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climbing left turn within 3 DME of NTD TACAN, direct NTD, thence...

TAKE-OFF RWY 21, 27: Left turn, thence...

Intercept NTD R-163 and via NTD R-163 to BIMPE (NTD R-163/24 DME), then via SLI VORTAC R-251 to DOYLE, then via assigned routing. Cross BIMPE at or above 5500.

SANTA CATALINA TRANSITION (DOYLE 9 • SXC): DOYLE (SLI R-251/34 DME) to SANTA CATALINA VORTAC via SXC R-310. Then as filed.

DOYLE-NINE DEPARTURE (DOYLE 9 • DOYLE)
OXNARD, CALIFORNIA
POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

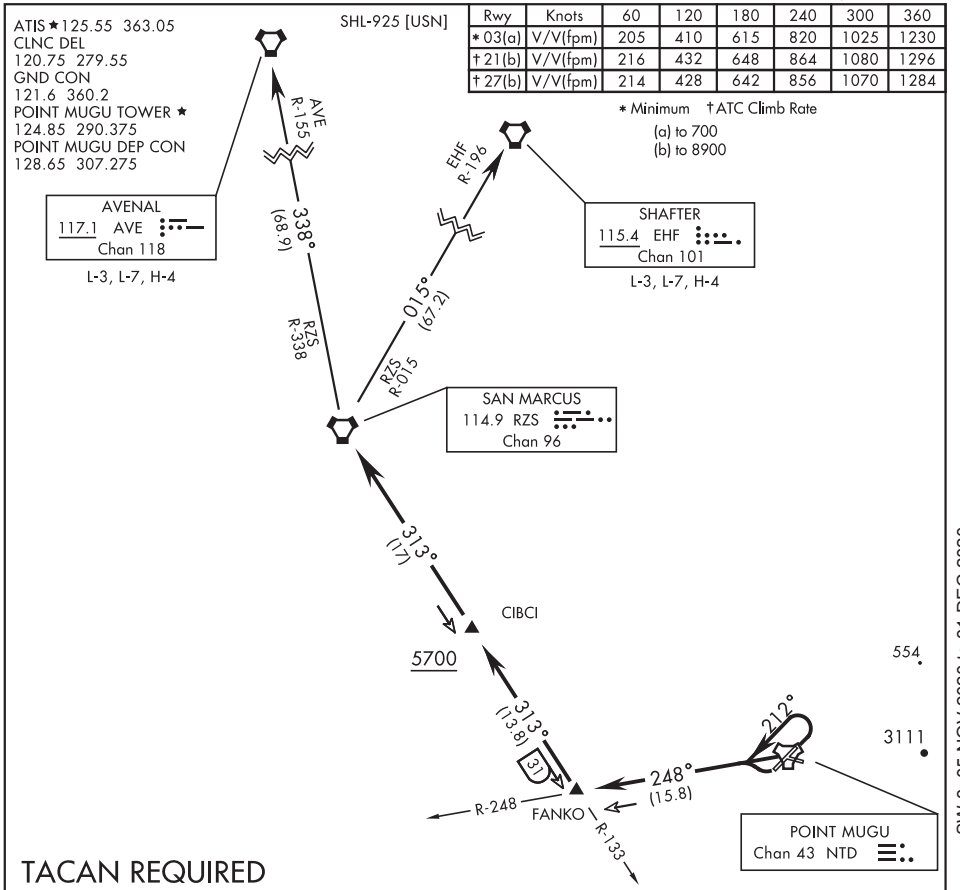
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

17173

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

SAN MARCUS-NINE DEPARTURE (RZS 9 • RZS)

OXNARD, CALIFORNIA



Rwy	Knots	60	120	180	240	300	360
* 03(a)	V/V(fpm)	205	410	615	820	1025	1230
† 21(b)	V/V(fpm)	216	432	648	864	1080	1296
† 27(b)	V/V(fpm)	214	428	642	856	1070	1284

* Minimum † ATC Climb Rate
(a) to 700
(b) to 8900

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climbing left turn to 212° within 3 DME of NTD TACAN, thence...

TAKE-OFF RWY 21: Turn right, thence...

TAKE-OFF RWY 27: Turn left, thence...

Intercept NTD R-248 and via NTD R-248 to FANKO (NTD R-248/16 DME), then via RZS VORTAC R-133 to RZS VORTAC, then via assigned routing. Cross CIBCI (RZS R-133/17 DME) at or above 5700.

AVENAL TRANSITION (RZS 9•AVE): From over SAN MARCUS VORTAC via RZS R-338 to AVENAL VORTAC. Cross SAN MARCUS VORTAC at or above 7900.

SHAFTER TRANSITION (RZS 9•EHF): From over SAN MARCUS VORTAC via RZS R-015 to SHAFTER VORTAC. Cross SAN MARCUS VORTAC at or above 8900.

SAN MARCUS-NINE DEPARTURE (RZS 9 • RZS)

OXNARD, CALIFORNIA

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	5001
088°	TDZE	1389
	Apt Elev	1395

RNAV (GPS) RWY 9

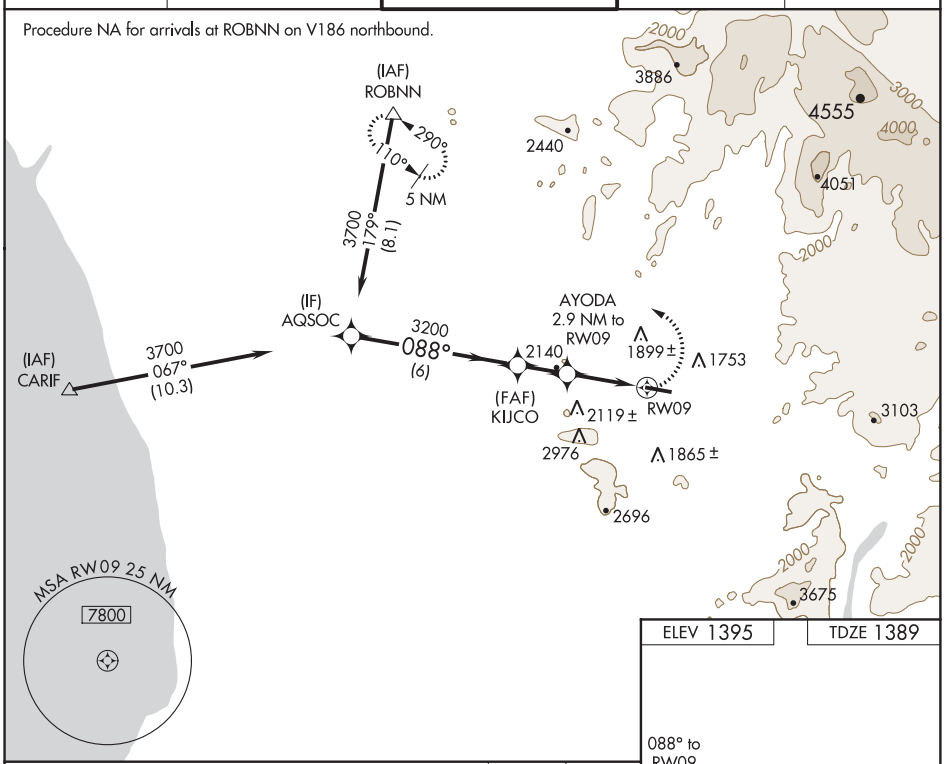
RAMONA (RNM)

Circling NA north of Rwy 9-27. DME/DME RNP -0.3 NA. LNAV minima NA when using Gillespie Field altimeter setting. When local altimeter setting not received, use Gillespie Field altimeter setting and increase all Circling MDA 180 feet and increase Circling visibility Cats A and B ¼ mile and Cat C ½ mile. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing left turn to 5000 direct ROBNN and hold.

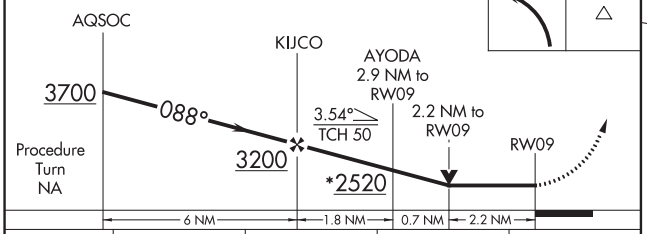
ATIS	SOCAL APP CON	RAMONA TOWER ★	GND CON	UNICOM
132.025	132.2 269.1	119.875 (CTAF) L	121.65	122.95

Procedure NA for arrivals at ROBNN on V186 northbound.

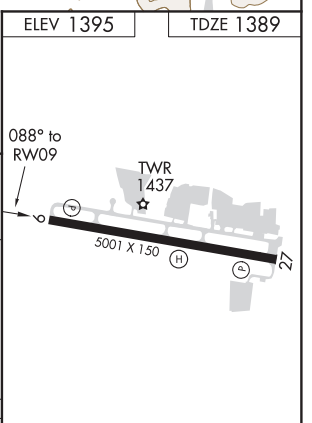


* 2700 when using Gillespie Field altimeter setting.

5000 ROBNN



CATEGORY	A	B	C	D
LNAV MDA	2240-1 851 (900-1)	2240-1¼ 851 (900-1¼)	2240-2½ 851 (900-2½)	NA
CIRCLING	2240-1 845 (900-1)	2240-1¼ 845 (900-1¼)	2240-2½ 845 (900-2½)	NA



REIL Rwy 27 L

MIRL Rwy 9-27 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RAMONA, CALIFORNIA | AL-6667 (FAA) | 20310

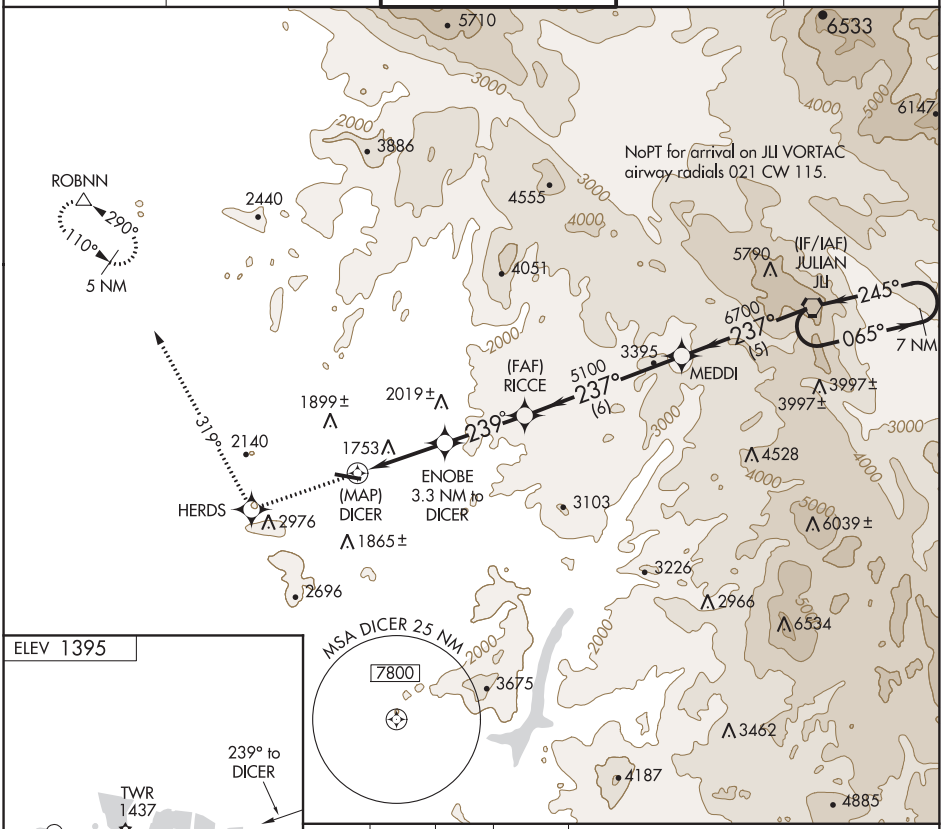
APP CRS	Rwy Idg	N/A
239°	TDZE	N/A
	Apt Elev	1395

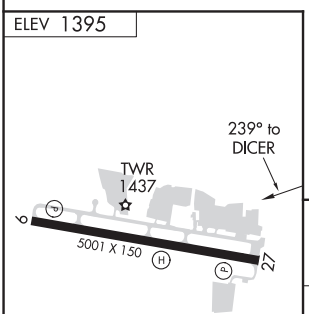
RNAV (GPS)-B
RAMONA (RNM)

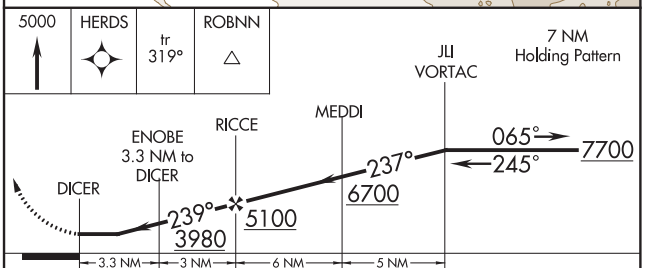
DME/DME RNP- 0.3 NA.
Circling NA north of Rwy 9-27.
When local altimeter setting not received, use Gillespie Field altimeter setting and increase all MDA 180 feet.

MISSED APPROACH: Climb to 5000 direct HERDS and via track 319° to ROBNN and hold.

ATIS	SOCAL APP CON	RAMONA TOWER ★	GND CON	UNICOM
132.025	132.2 269.1	119.875 (CTAF) L	121.65	122.95







CATEGORY	A	B	C	D
CIRCLING	2780-1¼ 1385 (1400-1¼)	2780-1½ 1385 (1400-1½)	2780-3 1385 (1400-3)	NA

REIL Rwy 27 L
MIRL Rwy 9-27 L

SW-3, 05 NOV 2020 to 31 DEC 2020

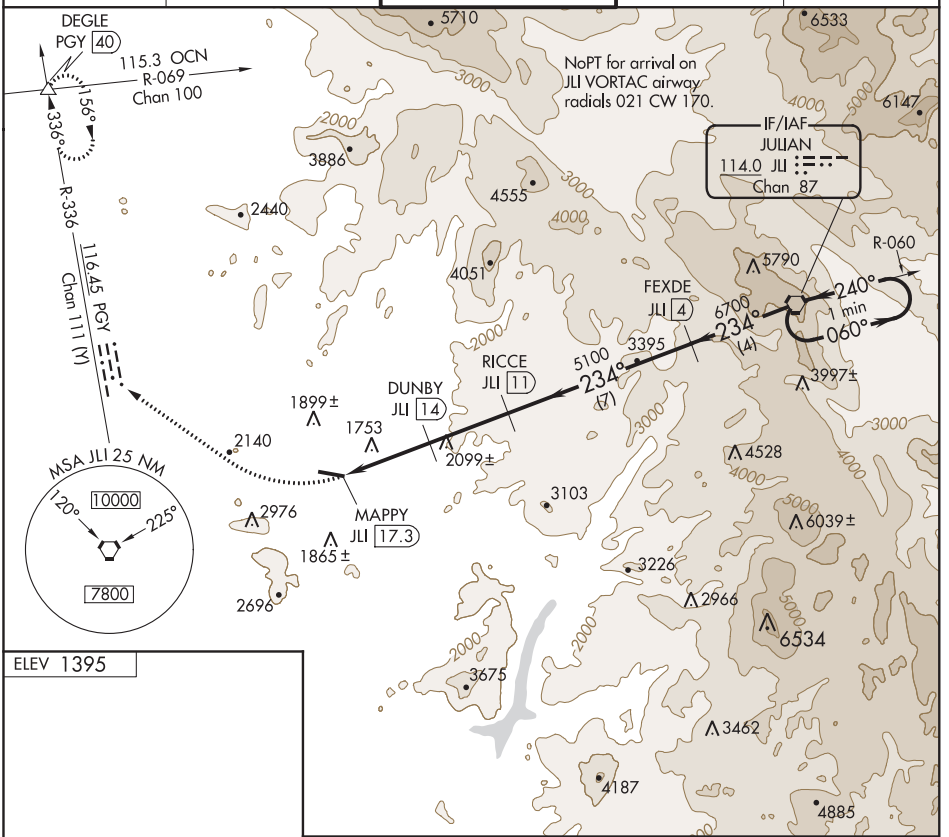
VORTAC JLI	APP CRS	Rwy Idg	N/A
114.0	234°	TDZE	N/A
Chan 87		Apt Elev	1395

VOR/DME-A
RAMONA (RNM)

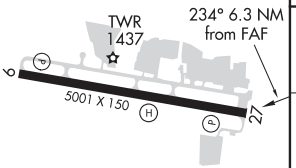
Circling NA north of Rwy 9-27.
When local altimeter setting not received, use Gillespie Field altimeter setting and increase all MDA 180 feet.

MISSED APPROACH: Climbing right turn to 5000 via heading 290° and PGY VORTAC R-336 to DEGLE/PGY 40 DME and hold.

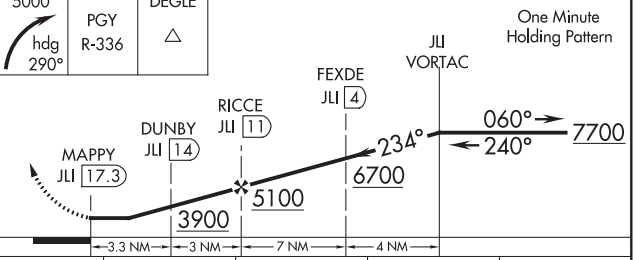
ATIS	SOCAL APP CON	RAMONA TOWER ★	GND CON	UNICOM
132.025	132.2 269.1	119.875 (CTAF) L	121.65	122.95



ELEV 1395



5000 hdg 290°	PGY R-336	DEGLE △



CATEGORY	A	B	C	D
CIRCLING	2580-1¼ 1185 (1200-1¼)	2580-1½ 1185 (1200-1½)	2580-3 1185 (1200-3)	NA

REIL Rwy 27 L
MIRL Rwy 9-27 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

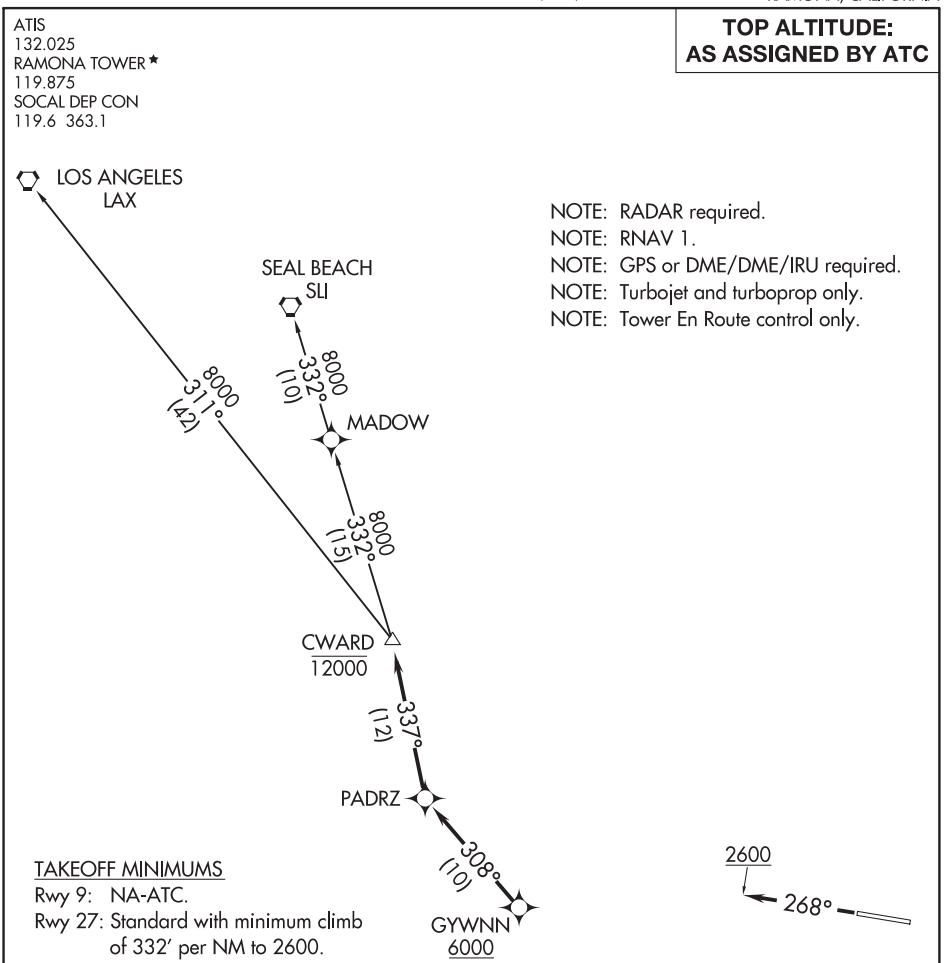
AIRPORT DIAGRAM

AL-6667 (FAA)

RAMONA (RNM)
RAMONA, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 27: Climb heading 268° to 2600, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

. . . .on transition. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

LOS ANGELES TRANSITION (CWARD2.LAX)
SEAL BEACH TRANSITION (CWARD2.SLI)

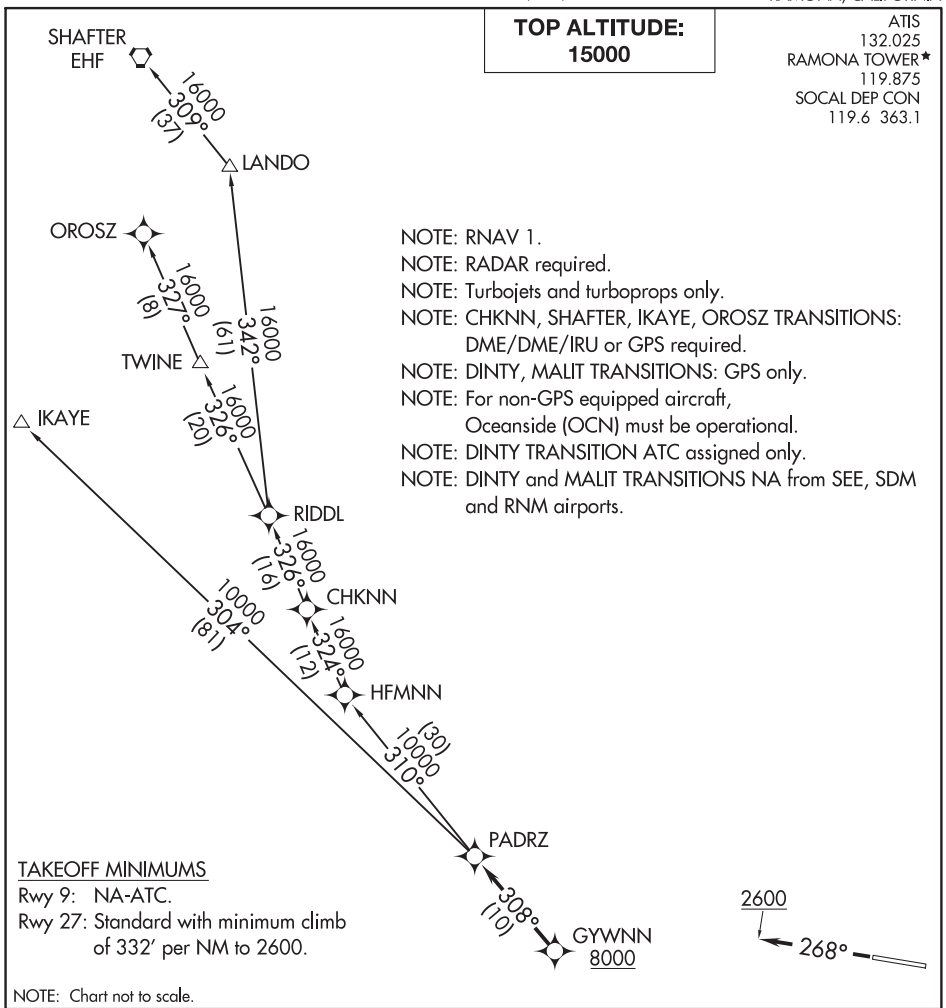
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(PADRZ2.PADRZ) 17341

PADRZ TWO DEPARTURE (RNAV)

AL-6667 (FAA)

RAMONA (RNM)
RAMONA, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 27: Climb heading 268° to 2600, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

. . . .on (transition). Maintain 15000. Expect higher altitude 10 minutes after departure.

CHKNN TRANSITION (PADRZ2.CHKNN)
IKAYE TRANSITION (PADRZ2.IKAYE)
OROSZ TRANSITION (PADRZ2.OROSZ)
SHAFTER TRANSITION (PADRZ2.EHF)

APP CRS	Rwy Idg	N/A
346°	TDZE	N/A
	Apt Elev	1574

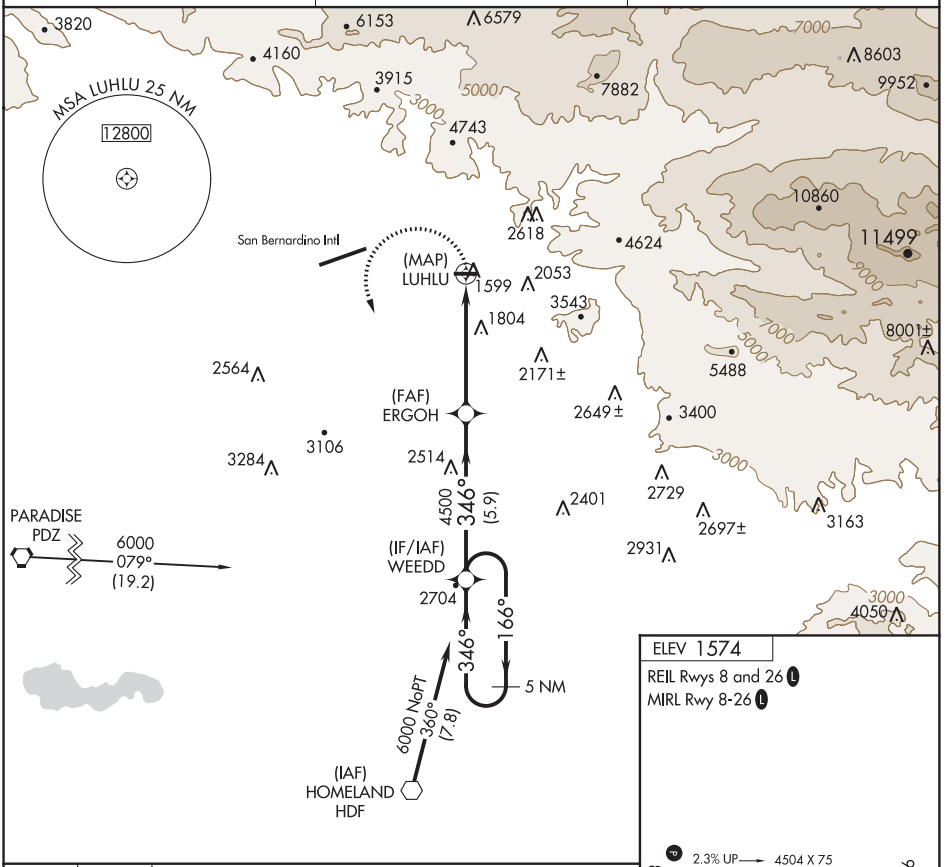
RNAV (GPS)-A

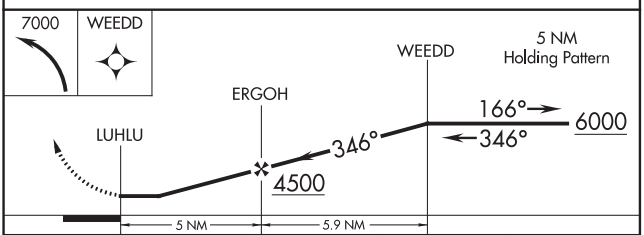
REDLANDS MUNI (REI)

T A NA — Circling Rwy 26 NA at night. Helicopter visibility reduction below 1 SM NA. DME/DME RNP-0.3 NA. Use San Bernardino altimeter setting; when not received, use Ontario altimeter setting and increase all MDA 160 feet.

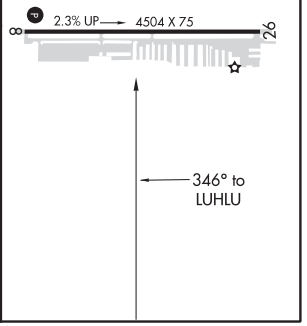
MISSED APPROACH: (Do not exceed 230K until WEEDD) Climbing left turn to 7000 direct WEEDD and hold, continue climb-in-hold to 7000.

SBD AWOS-3	SOCAL APP CON	AUNICOM
124.175	127.0 318.2	123.05 (CTAF) L





ELEV 1574
REIL Rwys 8 and 26 L
MIRL Rwy 8-26 L



CATEGORY	A	B	C	D
C CIRCLING	2740-1¼ 1166 (1200-1¼)	2740-1½ 1166 (1200-1½)	3820-3 2246 (2300-3)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RIVERSIDE, CALIFORNIA | AL-769 (FAA) | 20310

LOC I-RAL	APP CRS	Rwy Idg	5401
110.9	089°	TDZE	795
		Apt Elev	819

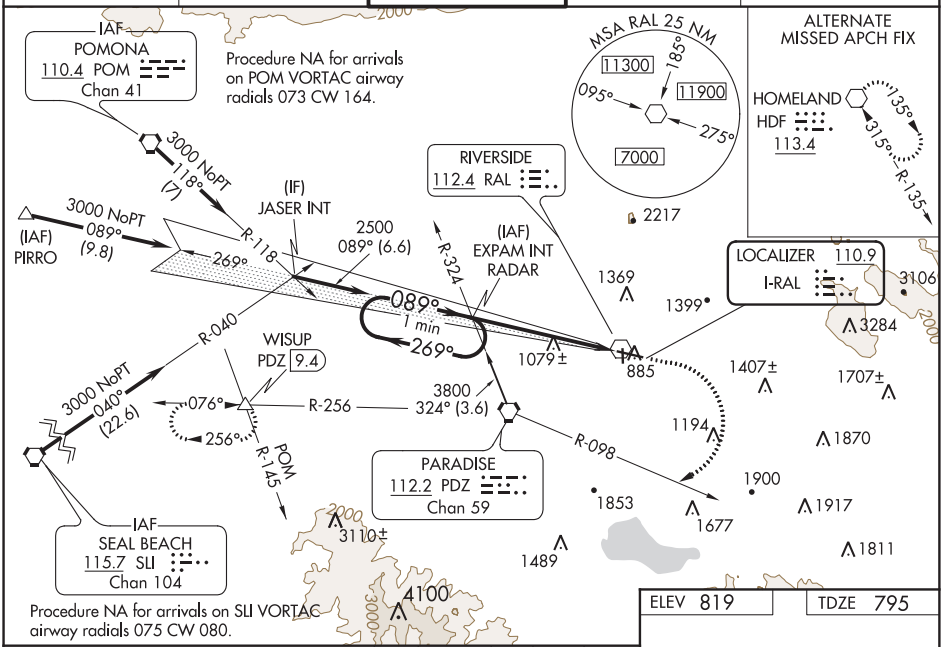
ILS or LOC RWY 9

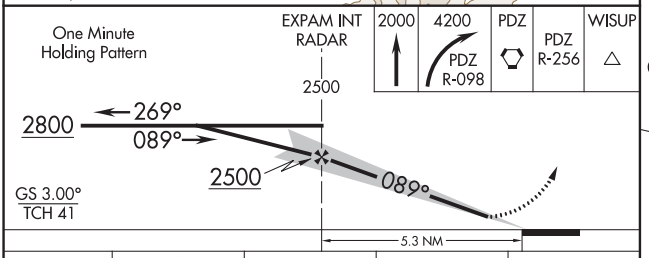
RIVERSIDE MUNI (RAL)

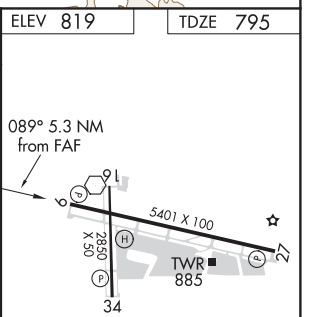
Circling NA north of Rwy 9-27 for Cat D. When local altimeter setting not received, use Chino altimeter setting and increase all DA 46 feet and all MDA 60 feet, increase S-ILS 9 visibility ⅛ mile all Cats, S-LOC 9 Cat C/D visibility ⅛ mile. Autopilot coupled approach NA below 1192.
*Missed approach requires minimum climb of 270 feet per NM to 2500.

MISSED APPROACH: Climb to 2000 then climbing right turn to 4200 on PDZ VORTAC R-098 to PDZ VORTAC then on PDZ VORTAC R-256 to WISUP INT/PDZ VORTAC 9.4 DME and hold.

ATIS	SOCAL APP CON	RIVERSIDE TOWER ★	GND CON	UNICOM
128.8	135.4 377.125	121.0 (CTAF) L 257.8	121.7	122.95







CATEGORY	A	B	C	D
S-ILS 9*		995-¾ 200 (200-¾)		
S-ILS 9		1131-1 336 (400-1)		
S-LOC 9*	1280-1 485 (500-1)		1280-1⅜ 485 (500-1⅜)	
S-LOC 9	1360-1 565 (600-1)		1360-1⅝ 565 (600-1⅝)	
CIRCLING	1360-1 541 (600-1)		1620-2¼ 801 (900-2¼)	1620-2½ 801 (900-2½)

MIRL Rwys 9-27 and 16-34 L

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-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS CH 81921 W09A	APP CRS 089°	Rwy Idg 5401 TDZE 795 Apt Elev 819

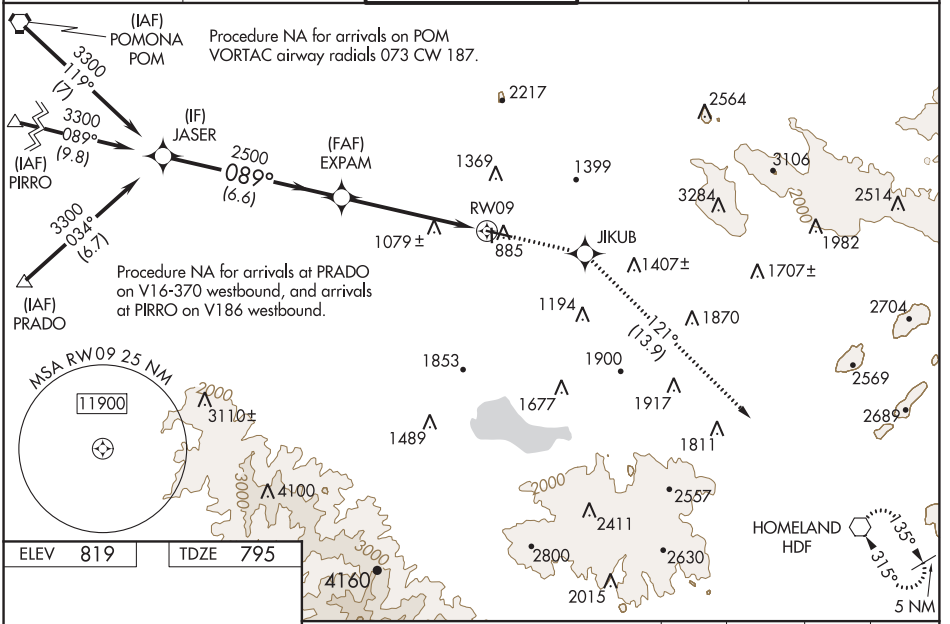
RNAV (GPS) RWY 9

RIVERSIDE MUNI (RAL)

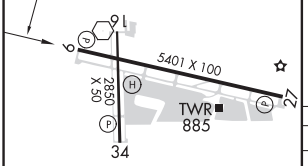
DME/DME RNP-0.3 NA. When local altimeter setting not received, use Chino altimeter setting and increase all DA 46 feet and all MDA 60 feet and increase LPV all Cats and Circling Cats C and D visibility ¼ mile and LNAV/VNAV all Cats and LNAV Cats C and D visibility ⅛ mile. VDP and Baro-VNAV NA with Chino altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Circling NA for Cat D north of Rwy 9-27.

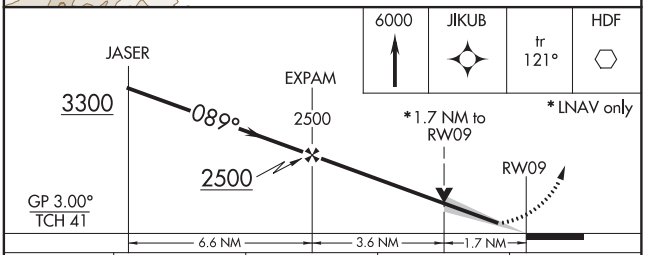
MISSED APPROACH: Climb to 6000 direct JIKUB and on track 121° to HDF VOR and hold, continue climb-in-hold to 6000.

ATIS	SOCAL APP CON	RIVERSIDE TOWER ★	GND CON	UNICOM
128.8	135.4 377.125	121.0 (CTAF) L 257.8	121.7	122.95



ELEV 819	TDZE 795





CATEGORY	A	B	C	D
LPV DA	1127-1⅛ 332 (400-1⅛)			
LNAV/VNAV DA	1461-2½ 666 (700-2½)			
LNAV MDA	1340-1 545 (600-1)		1340-1⅝ 545 (600-1⅝)	
CIRCLING	1340-1 521 (600-1)		1620-2¼ 801 (900-2¼)	1620-2½ 801 (900-2½)

MIRL Rwys 9-27 and 16-34 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RIVERSIDE, CALIFORNIA AL-769 (FAA) 19227

RNAV (GPS) RWY 27

RIVERSIDE MUNI (RAL)

WAAS	APP CRS	Rwy Idg	5401
CH 82201	269°	TDZE	818
W27A		Apt Elev	818

DME/DME RNP -0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 46°C (116°F).
Circling NA for Cat D north of Rwy 9-27.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4000 direct ICIYE and via 246° track to PRADO and hold.

ATIS	SOCAL APP CON	RIVERSIDE TOWER ★	GND CON	UNICOM
128.8	135.4 377.125	121.0 (CTAF) L 257.8	121.7	122.95

MISSED APCH FIX

4 NM
076°
256°
PRADO

Procedure NA for arrivals at BANDS via V372 northeast bound and via V16-370 eastbound.

ICIYE
246° (13.9)
899
RW27
(FAF) LAYEY
1407±
1805±
1880
1707±
PAYIG
4100
269° (3.2)
3100 (3.2)
(IF) WENVA
5100
258° (7)
2704
CUGVI
8600
258° (9.4)
(IAF) BANDS
2931
1194
1853
1900
1677
1917
1489
1811
2569
2689
3876
MSA RW27 25 NM
12100
4100
2411
2557
2630
2800
4160
2015
2673
2618
4624
3543
5488
2649±
3400
3106
3284
2514
1982
2217
2564
1369
1399

ELEV	818	TDZE	818

4000	ICIYE	tr 246°	PRADO

Procedure Turn NA

*LNAV only

*3.9 NM to RW27

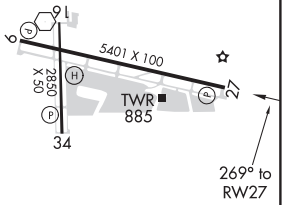
RW27 LAYEY PAYIG WENVA

269° 5100 4100 3100

GP 3.01° TCH 50

3.9 NM 3 NM 3.2 NM 3.2 NM

CATEGORY	A	B	C	D
LPV DA	1236-1½ 418 (500-1½)			
LNAV/VNAV DA	1368-2 550 (600-2)			
LNAV MDA	2100-1¼ 1282 (1300-1¼)	2100-1½ 1282 (1300-1½)	2100-3 1282 (1300-3)	
CIRCLING	2100-2 1282 (1300-2)		2100-3 1282 (1300-3)	



MIRL Rwys 9-27 and 16-34 L

RIVERSIDE, CALIFORNIA
Orig 03AUG06

33°57'N-117°27'W

RIVERSIDE MUNI (RAL)

RNAV (GPS) RWY 27

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

VOR RAL 112.4	APP CRS 079°	Rwy Idg 5401 TDZE 795 Apt Elev 819

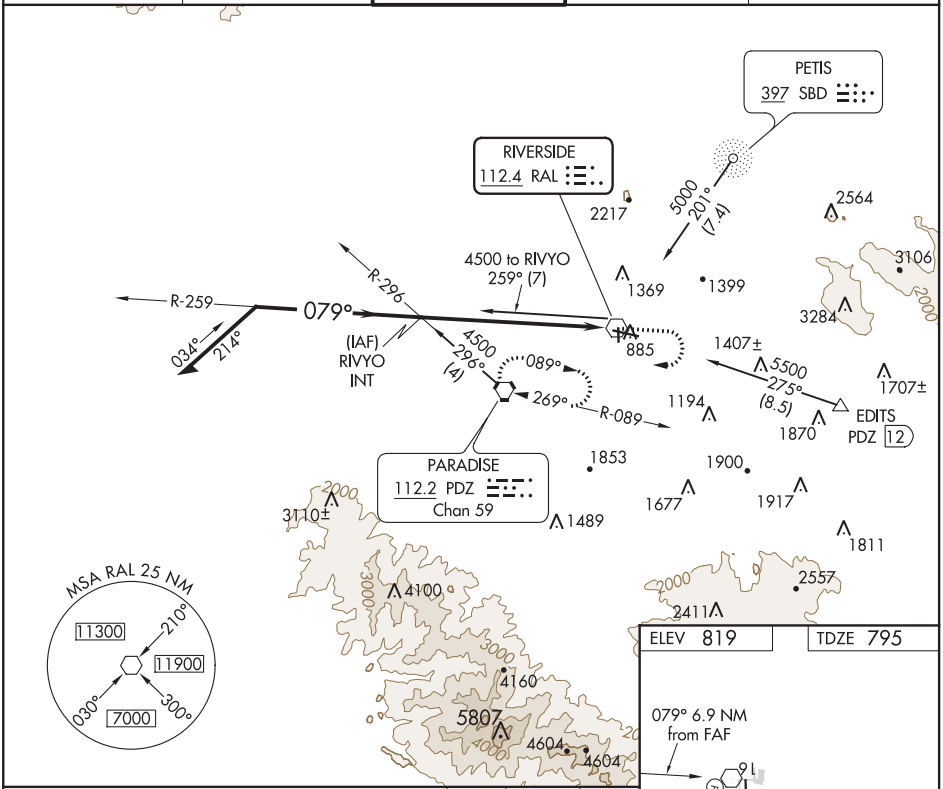
VOR RWY 9

RIVERSIDE MUNI (RAL)

When local altimeter setting not received, use Chino altimeter setting and increase MDA 60 feet.

MISSED APPROACH: Climb to 2800 then climbing right turn to 4600 direct PDZ VORTAC and hold.

ATIS	SOCAL APP CON	RIVERSIDE TOWER ★	GND CON	UNICOM
128.8	135.4 377.125	121.0 (CTAF) L 257.8	121.7	122.95



CATEGORY	A	B	C	D
S-9	2020-1¼ 1225 (1300-1¼)	2020-1½ 1225 (1300-1½)	2020-3 1225 (1300-3)	NA
CIRCLING	2020-1¼ 1201 (1300-1¼)	2020-1½ 1201 (1300-1½)	2020-3 1201 (1300-3)	NA

MIRL Rwys 9-27 and 16-34 L

FAF to MAP 6.9 NM

Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RIVERSIDE, CALIFORNIA | AL-769 (FAA) | 20310

VOR RAL 112.4	APP CRS 270°	Rwy Idg N/A TDZE N/A Apt Elev 819

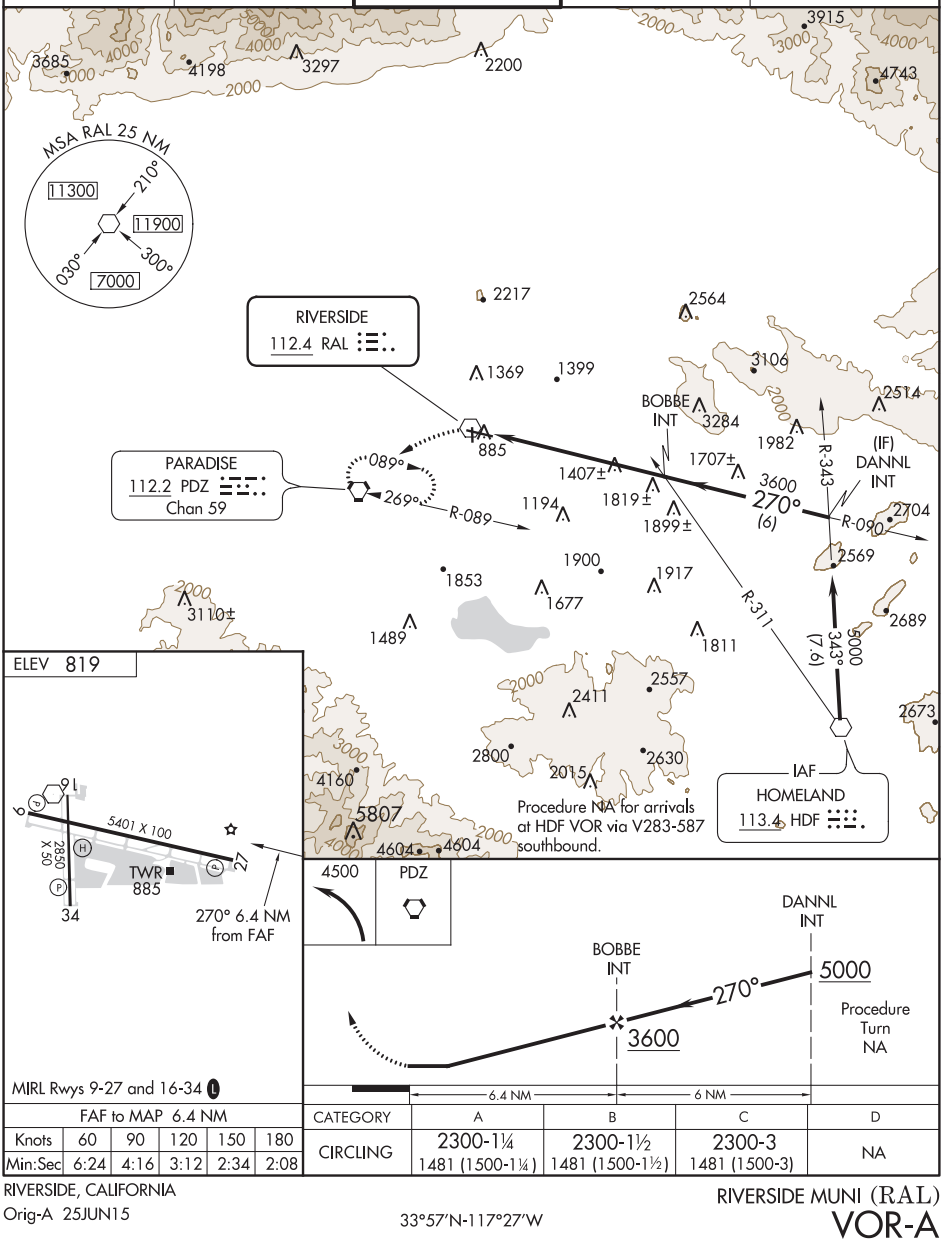
VOR-A

RIVERSIDE MUNI (RAL)

T A When local altimeter setting not received, use Chino altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climbing left turn to 4500 direct PDZ VORTAC and hold, continue climb-in-hold to 4500.

ATIS	SOCAL APP CON	RIVERSIDE TOWER ★	GND CON	UNICOM
128.8	135.4 377.125	121.0 (CTAF) L 257.8	121.7	122.95

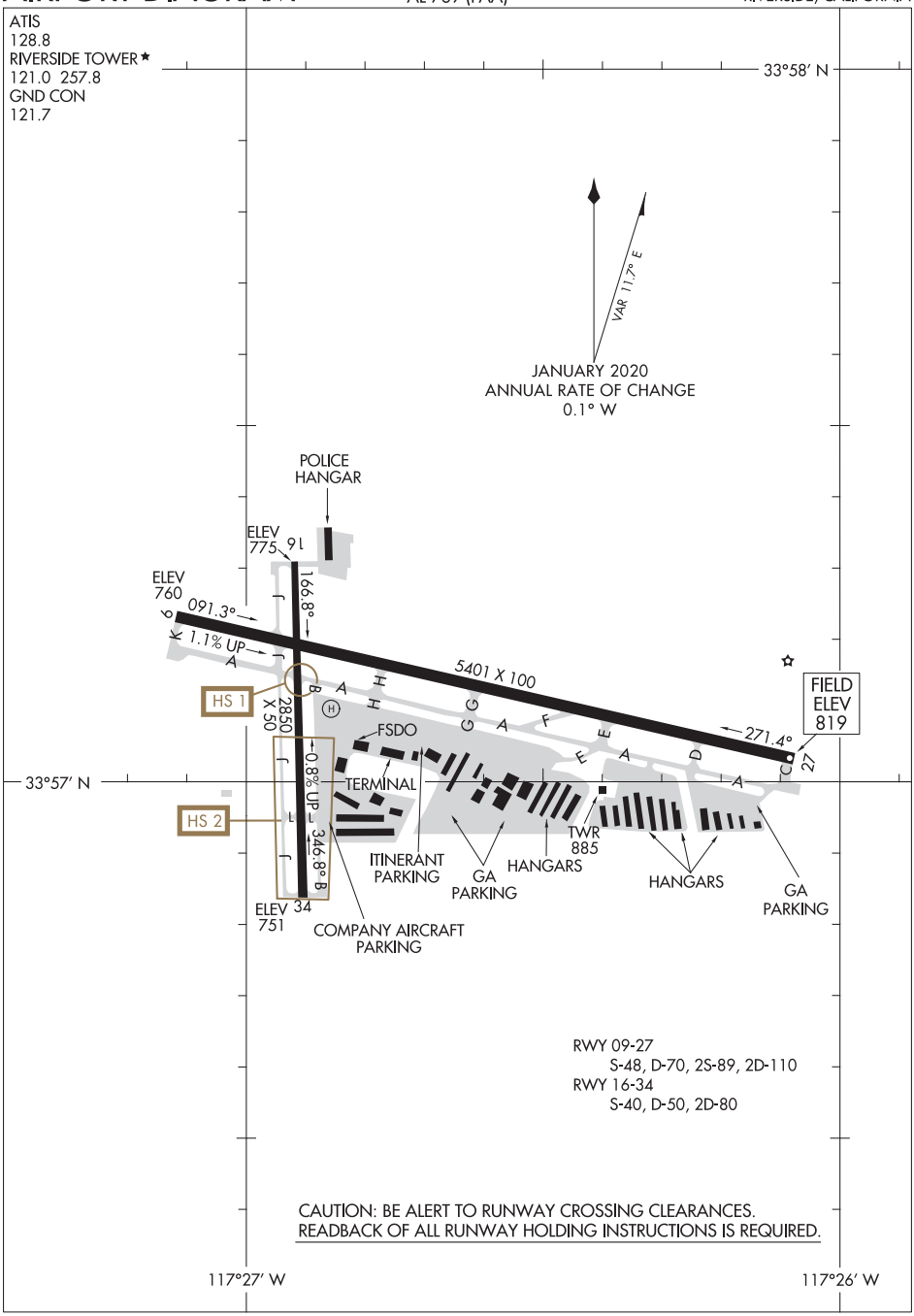


MIRL Rwys 9-27 and 16-34 L

FAF to MAP 6.4 NM					
Knots	60	90	120	150	180
Min:Sec	6:24	4:16	3:12	2:34	2:08

CATEGORY	A	B	C	D
CIRCLING	2300-1¼ 1481 (1500-1¼)	2300-1½ 1481 (1500-1½)	2300-3 1481 (1500-3)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020

(RAL1.PDZ) 20310

RIVERSIDE ONE DEPARTURE (OBSTACLE)

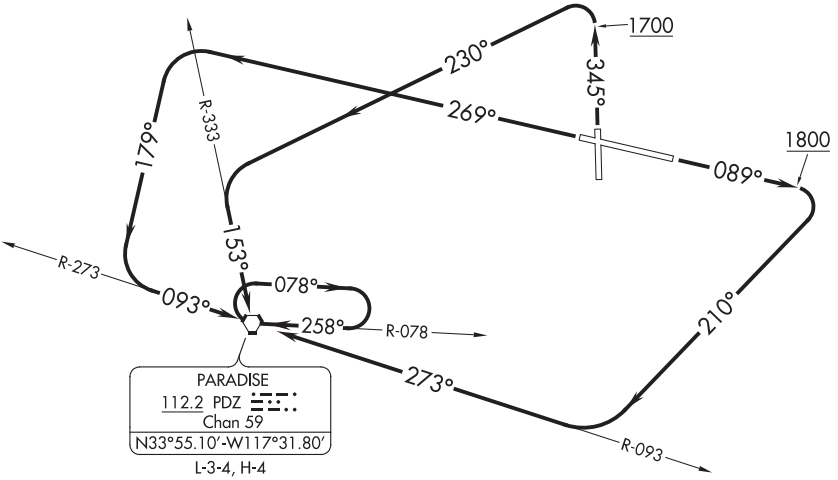
AL-769 (FAA)

RIVERSIDE MUNI (RAL)
RIVERSIDE, CALIFORNIA

ATIS
128.8
GND CON
121.7
RIVERSIDE TOWER ★
121.0 257.8
SOCAL DEP CON
135.4 377.125

TAKEOFF OBSTACLE NOTES

Rwy 9: Terrain 4′ from DER, 497′ left of centerline, 836′ MSL.
Fence, tree, terrain beginning 77′ from DER, 496′ left of centerline, up to 843′ MSL.
Tree 604′ from DER, 590′ right of centerline, 856′ MSL.
Trees beginning 989′ from DER, 594′ right of centerline, up to 867′ MSL.
Rwy 27: Tree 600′ from DER, 548′ right of centerline, 786′ MSL.
Pole 609′ from DER, 484′ left of centerline, 783′ MSL.
Pole 758′ from DER, 680′ right of centerline, 790′ MSL.
Tree 1073′ from DER, 650′ left of centerline, 803′ MSL.
Rwy 34: Building 29′ from DER, 306′ right of centerline, 800′ MSL.
Poles, trees beginning 62′ from DER, 200′ right of centerline, up to 811′ MSL.
Building 62′ from DER, 350′ left of centerline, 796′ MSL.
Pole 300′ from DER, 287′ left of centerline, 799′ MSL.
Tree 543′ from DER, 291′ left of centerline, 814′ MSL.
Tree 829′ from DER, 557′ right of centerline, 854′ MSL.
Building 1214′ from DER, 376′ left of centerline, 832′ MSL.
Transmission line, pole beginning 1914′ from DER, 134′ left of centerline, up to 834′ MSL.
Building 1.7 NM from DER, 1237′ right of centerline, 1369′ MSL.



TAKEOFF MINIMUMS

Rwy 16: NA-terrain.
Rwy 9: Standard with minimum climb of 340′ per NM to 2700.
Rwy 27: Standard with minimum climb of 400′ per NM to 3100.
Rwy 34: Standard with minimum climb of 440′ per NM to 2700.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb on heading 089° to 1800 then climbing right turn heading 210° to intercept PDZ VORTAC R-093 to PDZ VORTAC, thence. . . .
TAKEOFF RUNWAY 27: Climb on heading 269° until PDZ R-333, then climbing left turn heading 179° to intercept PDZ VORTAC R-273 to PDZ VORTAC, thence. . . .
TAKEOFF RUNWAY 34: Climb on heading 345° to 1700 then climbing left turn heading 230° to intercept PDZ VORTAC R-333 to PDZ VORTAC, thence. . . .

. . . . continue climb in PDZ holding pattern to cross PDZ VORTAC at or above 5000 or higher MEA for route of flight before proceeding on course.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	N/A
064°	TDZE	N/A
	Apt Elev	767

RNAV (GPS)-A

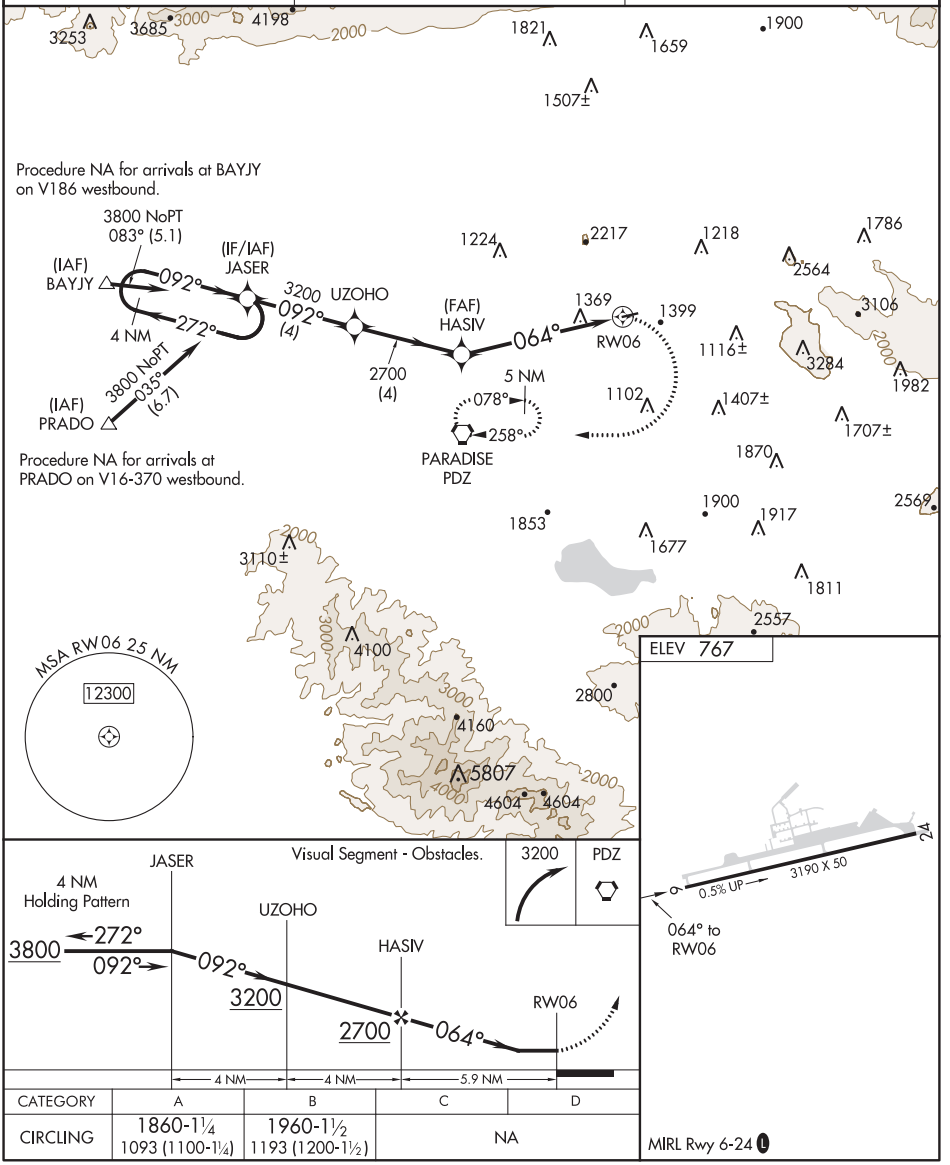
FLABOB (RIR)

RNP APCH.

Procedure NA at night. Use Riverside Muni altimeter setting; when not received, use Ontario altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climbing right turn to 3200 direct PDZ VORTAC and hold.

RAL ASOS	SOCAL APP CON	UNICOM
128.8	135.4 377.125	122.8 (CTAF)



CATEGORY	A	B	C	D
CIRCLING	1860-1¼ 1093 (1100-1¼)	1960-1½ 1193 (1200-1½)	NA	

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

ILS or LOC Z RWY 6

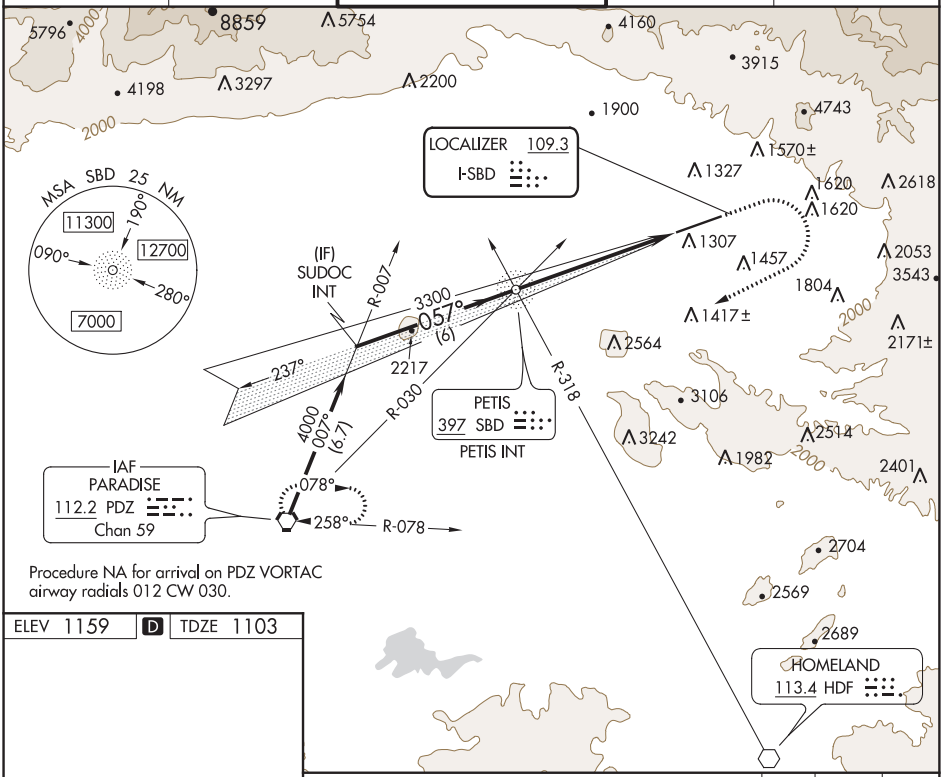
SAN BERNARDINO INTL (SBD)

LOC I-SBD	APP CRS	Rwy Idg	10000
109.3	057°	TDZE	1103
		Apt Elev	1159

Circling NA northwest of Rwy 6-24. When local altimeter setting not received, use Ontario altimeter setting and increase DA to 1426 feet and all visibilities ¼ SM; increase all MDA 80 feet and S-LOC Cats C/D and Circling Cat C visibility ¼ SM.

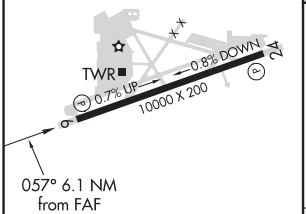
MISSED APPROACH: Climb to 2000 then climbing right turn to 6000 direct PDZ VORTAC and hold, continue climb-in-hold to 6000.
* Missed approach requires minimum climb of 340 feet per NM to 4000; if unable to meet climb gradient, see LOC Y RWY 6.

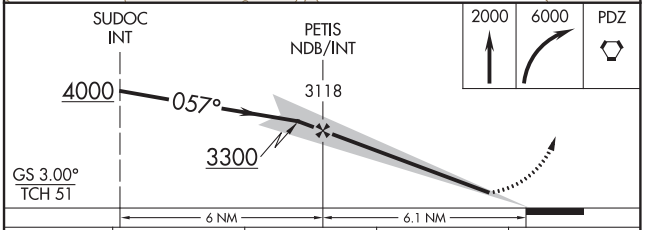
ATIS	SOCAL APP CON	SAN BERNARDINO TOWER *	GND CON	UNICOM
124.175	127.0 318.2	119.45 (CTAF) L	121.8	122.975



Procedure NA for arrival on PDZ VORTAC airway radials 012 CW 030.

ELEV 1159	D	TDZE 1103





HIRL Rwy 6-24 L
REIL Rwys 6 and 24 L

FAF to MAP 6.1 NM						
Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

CATEGORY	A	B	C	D
S-ILS 6*	1353-¾		250 (200-¾)	
S-LOC 6*	1740-1	637 (600-1)	1740-1¾	637 (600-1¾)
C CIRCLING	1740-1	581 (600-1)	1760-1¾ 601 (700-1¾)	2640-3 1481 (1500-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	10000
057°	TDZE	1103
	Apt Elev	1159

RNAV (GPS) Y RWY 6

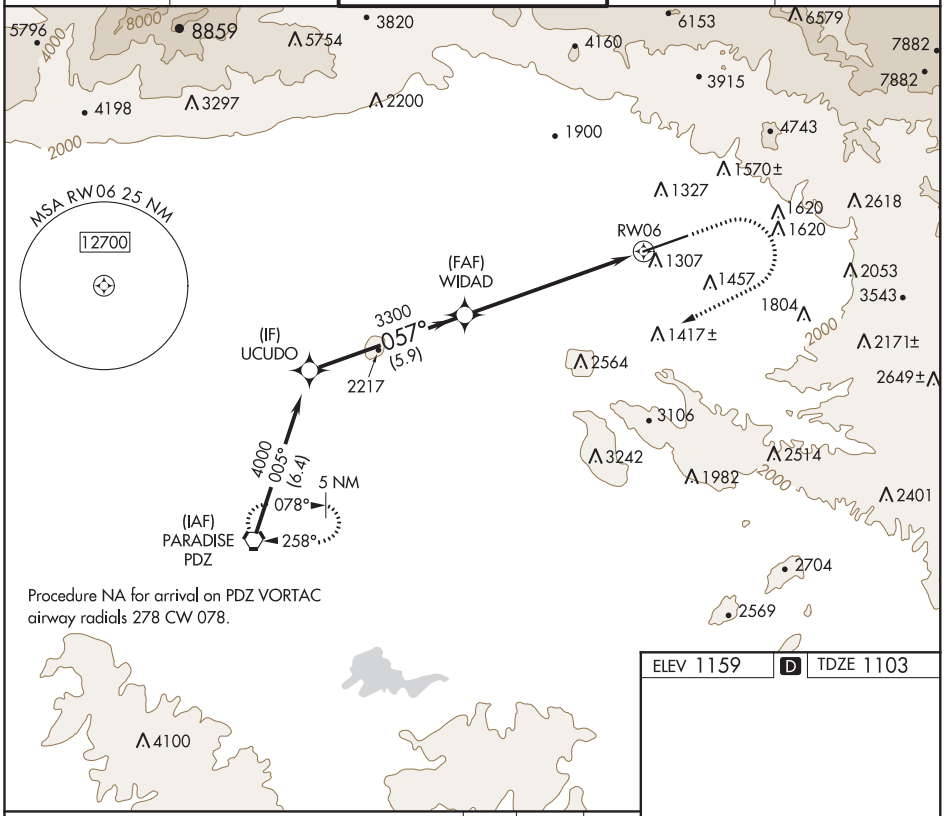
SAN BERNARDINO INTL (SBD)

RNP APCH

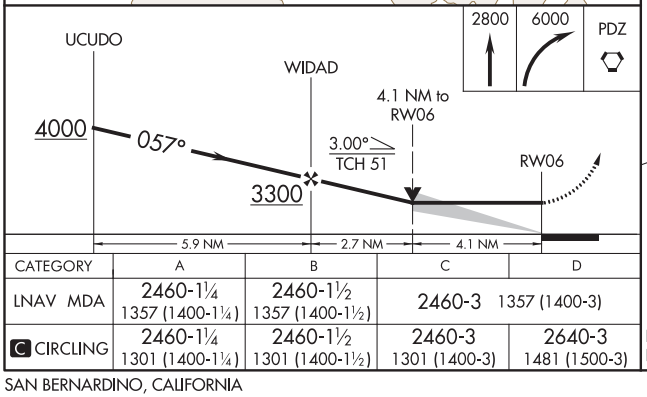
T Circling NA northwest of Rwy 6-24. When local altimeter setting not received, use Ontario altimeter setting and increase all MDA 80 feet.

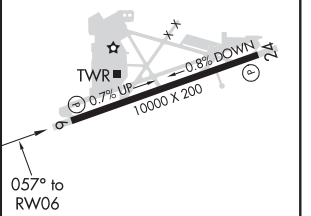
MISSED APPROACH: Climb to 2800 then climbing right turn to 6000 direct PDZ VORTAC and hold, continue climb-in-hold to 6000.

ATIS	SOCAL APP CON	SAN BERNARDINO TOWER ★	GND CON	UNICOM
124.175	127.0 318.2	119.45 (CTAF) L	121.8	122.975



ELEV 1159 D TDZE 1103





CATEGORY	A	B	C	D
LNAV MDA	2460-1¼ 1357 (1400-1¼)	2460-1½ 1357 (1400-1½)	2460-3 1357 (1400-3)	
C CIRCLING	2460-1¼ 1301 (1400-1¼)	2460-1½ 1301 (1400-1½)	2460-3 1301 (1400-3)	2640-3 1481 (1500-3)

HIRL Rwy 6-24 L
REIL Rwys 6 and 24 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN BERNARDINO, CALIFORNIA | AL-547 (FAA) | 19283

RNAV (GPS) Z RWY 6

SAN BERNARDINO INTL (SBD)

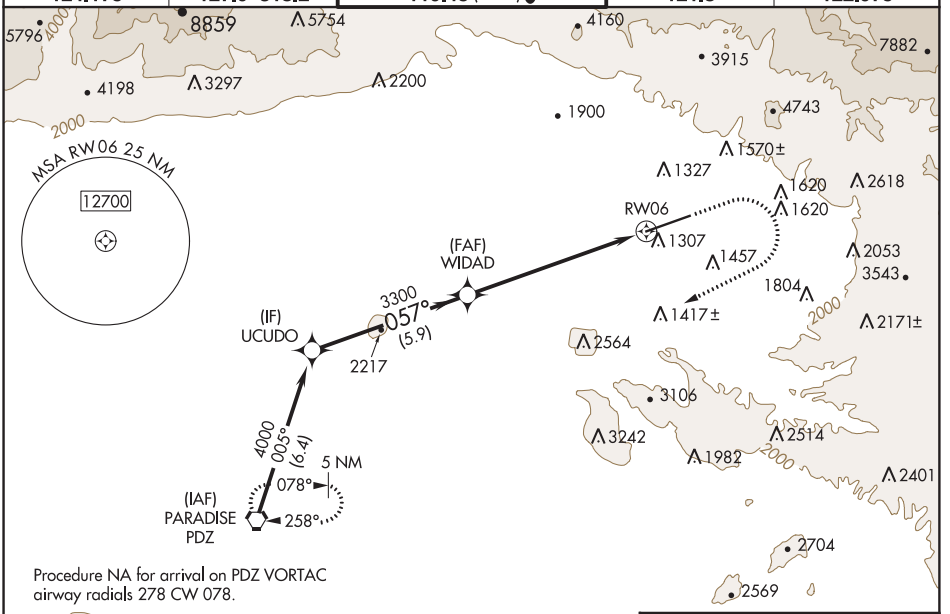
WAAS CH 66041 W06A	APP CRS 057°	Rwy Idg 10000 / TDZE 1103 / Apt Elev 1159

RNP APCH

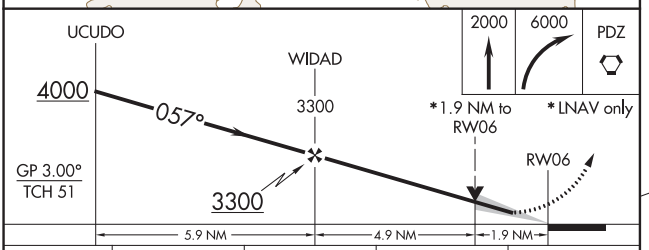
T A Circling NA northwest of Rwy 6-24. When local altimeter setting not received, use Ontario altimeter setting and increase DA to 1426 feet and all visibilities ¼ SM; increase all MDA 80 feet and LNAV Cats C/D and Circling Cat C visibility ¼ SM.

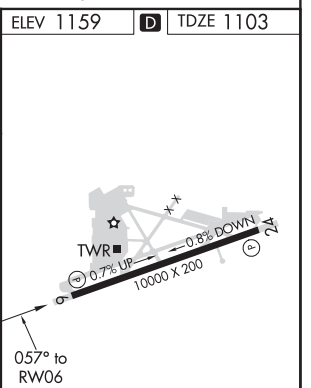
MISSED APPROACH: Climb to 2000 then climbing right turn to 6000 direct PDZ VORTAC and hold, continue climb-in-hold to 6000.
Missed approach requires minimum climb of 340 feet per NM to 4000; if unable to meet climb gradient, see RNAV (GPS) Y RWY 6.

ATIS	SOCAL APP CON	SAN BERNARDINO TOWER ★	GND CON	UNICOM
124.175	127.0 318.2	119.45 (CTAF) L	121.8	122.975



Procedure NA for arrival on PDZ VORTAC airway radials 278 CW 078.





CATEGORY	A	B	C	D
LPV DA #	1353-¾ 250 (200-¾)			
LNAV MDA #	1740-1 637 (600-1)		1740-1¾ 637 (600-1¾)	
C CIRCLING	1740-1 581 (600-1)		1760-1¾ 601 (700-1¾)	2640-3 1481 (1500-3)

HIRL Rwy 6-24 L
REIL Rwys 6 and 24 L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

LOC I-SBD	APP CRS	Rwy Idg	10000
109.3	057°	TDZE	1103
		Apt Elev	1159

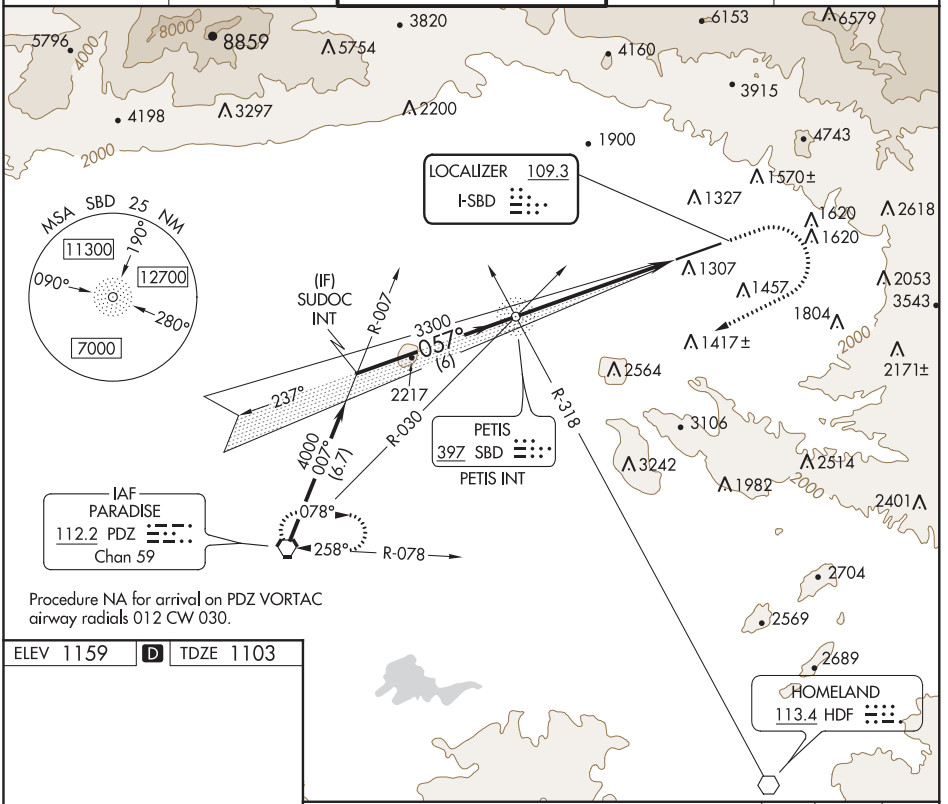
LOC Y RWY 6

SAN BERNARDINO INTL (SBD)

Circling NA northwest of Rwy 6-24. When local altimeter not received, use Ontario altimeter setting and increase all MDA 80 feet; increase S-LOC Cat B and Circling Cat B visibility ¼ SM.

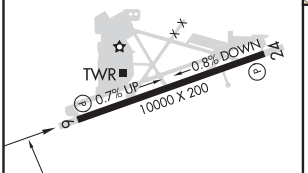
MISSED APPROACH: Climb to 2700 then climbing right turn to 6000 direct PDZ VORTAC and hold, continue climb-in-hold to 6000.

ATIS	SOCAL APP CON	SAN BERNARDINO TOWER ★	GND CON	UNICOM
124.175	127.0 318.2	119.45 (CTAF) L	121.8	122.975



Procedure NA for arrival on PDZ VORTAC airway radials 012 CW 030.

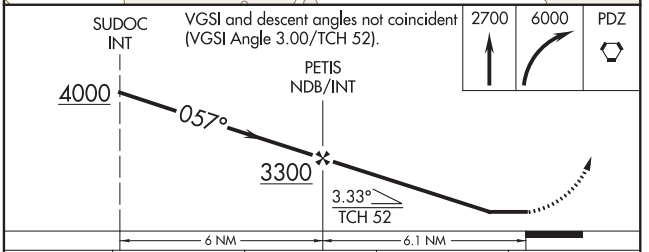
ELEV 1159 D TDZE 1103



HIRL Rwy 6-24 L

REIL Rwys 6 and 24 L

FAF to MAP 6.1 NM					
Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02



CATEGORY	A	B	C	D
S-6	2020-1¼	917 (900-1¼)	2060-3	957 (1000-3)
C CIRCLING	2020-1¼	861 (900-1¼)	2060-3 901 (1000-3)	2640-3 1481 (1500-3)

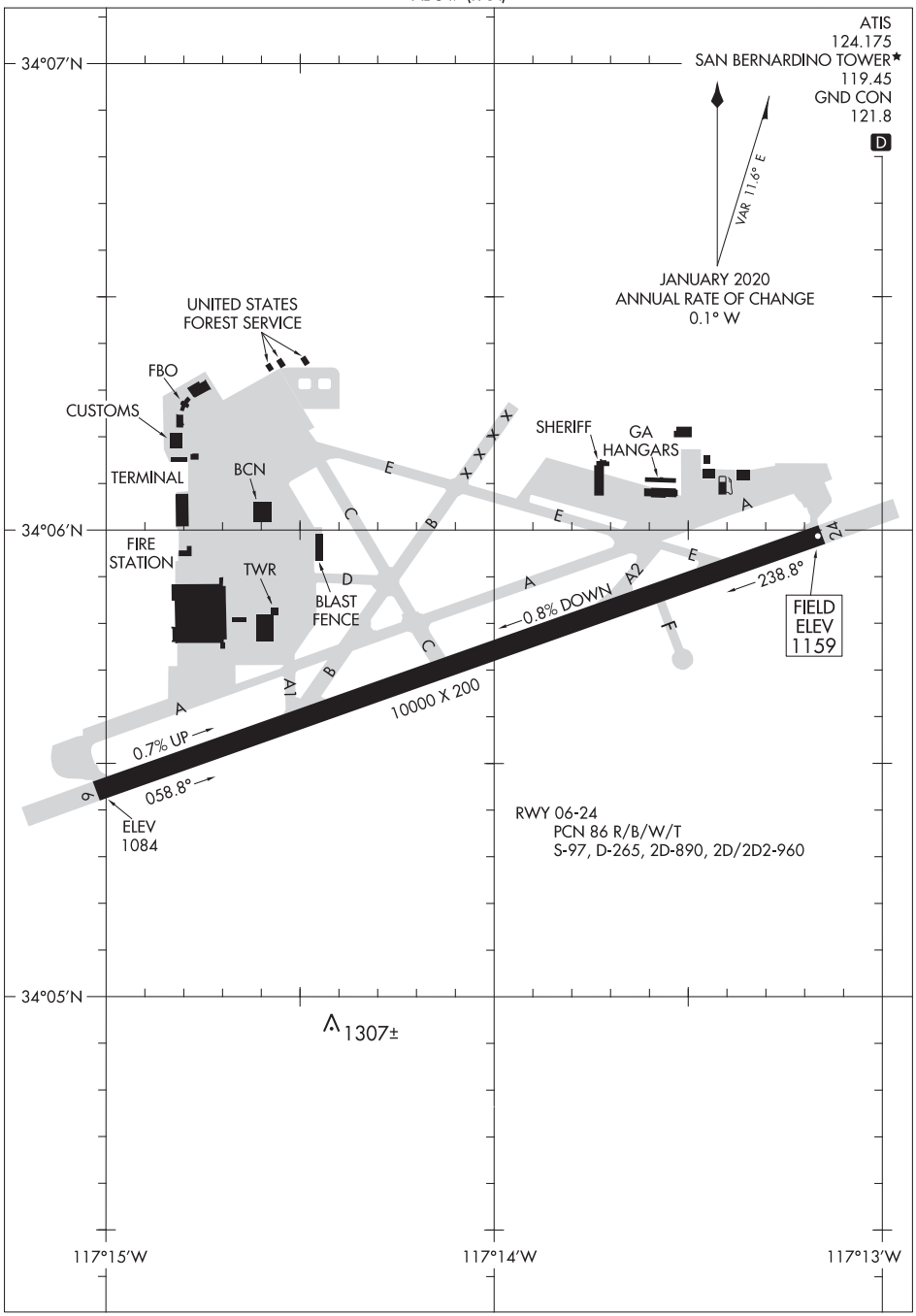
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20198

AIRPORT DIAGRAM

AL-547 (FAA)

SAN BERNARDINO INTL (SBD)
SAN BERNARDINO, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

20198

SAN BERNARDINO, CALIFORNIA
SAN BERNARDINO INTL (SBD)

SAN CLEMENTE, CALIFORNIA

RNAV (GPS) RWY 24

APCH CRS	Rwy ldg	9301
235°	TDZE	184
	Arpt Elev	184

AL-5126 (USN)

SAN CLEMENTE ISLAND NALF (FREDERICK SHERMAN FLD) (KNUC)

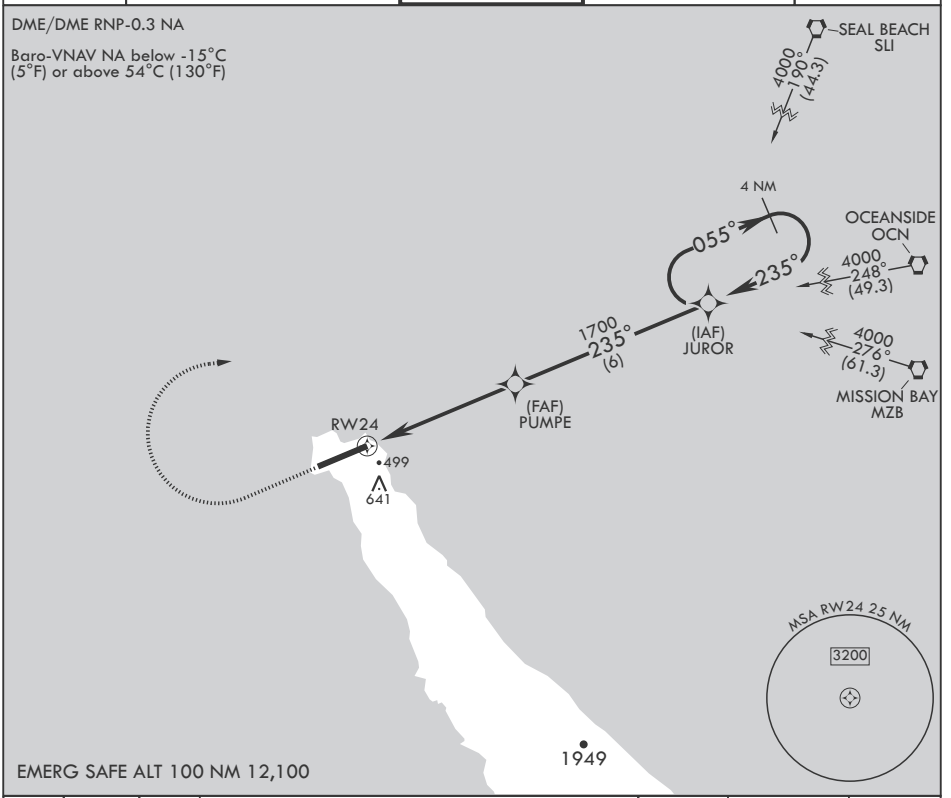
* Circling not authorized S of Rwy 6-24.

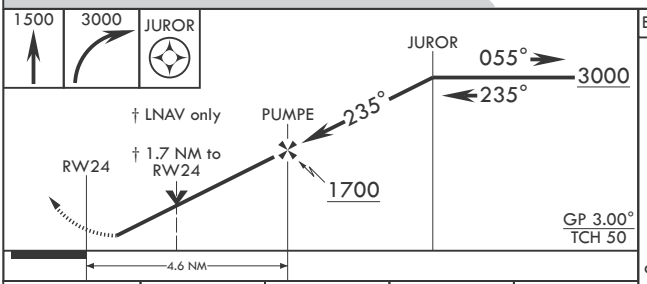
MISSED APPROACH: Climb to 1500, then climbing right turn to 3000 direct JUROR and hold.

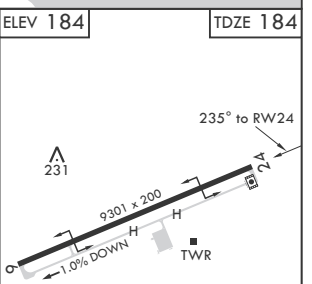
ATIS★	SAN CLEMENTE APP CON	TOWER★	GND CON	ASR/PAR
268.6	127.05 292.15	126.75 278.8	119.55 251.05	

DME/DME RNP-0.3 NA

Baro-VNAV NA below -15°C (5°F) or above 54°C (130°F)







CATEGORY	A	B	C	D
LNAV/VNAV DA	631-1 3/8 447 (500-1 3/8)	642-1 3/8 458 (500-1 3/8)	650-1 3/8 466 (500-1 3/8)	661-1 3/8 477 (500-1 3/8)
LNAV MDA	760-1 576 (600-1)		760-1 5/8 576 (600-1 5/8)	
CIRCLING*	780-1 596 (600-1)		780-1 5/8 596 (600-1 5/8)	780-2 596 (600-2)

REIL Rwy 6
REIL Rwy 24
HIRL Rwy 6-24

SAN CLEMENTE, CALIFORNIA

Amdt 3 25APR19

SAN CLEMENTE ISLAND NALF (FREDERICK SHERMAN FLD) (KNUC)

33°01'N - 118°35'W

RNAV (GPS) RWY 24

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

19115

SAN CLEMENTE ISLAND, CALIFORNIA

TACAN RWY 24

SAN CLEMENTE ISLAND NALF
(FREDERICK SHERMAN FLD) (KNUC)

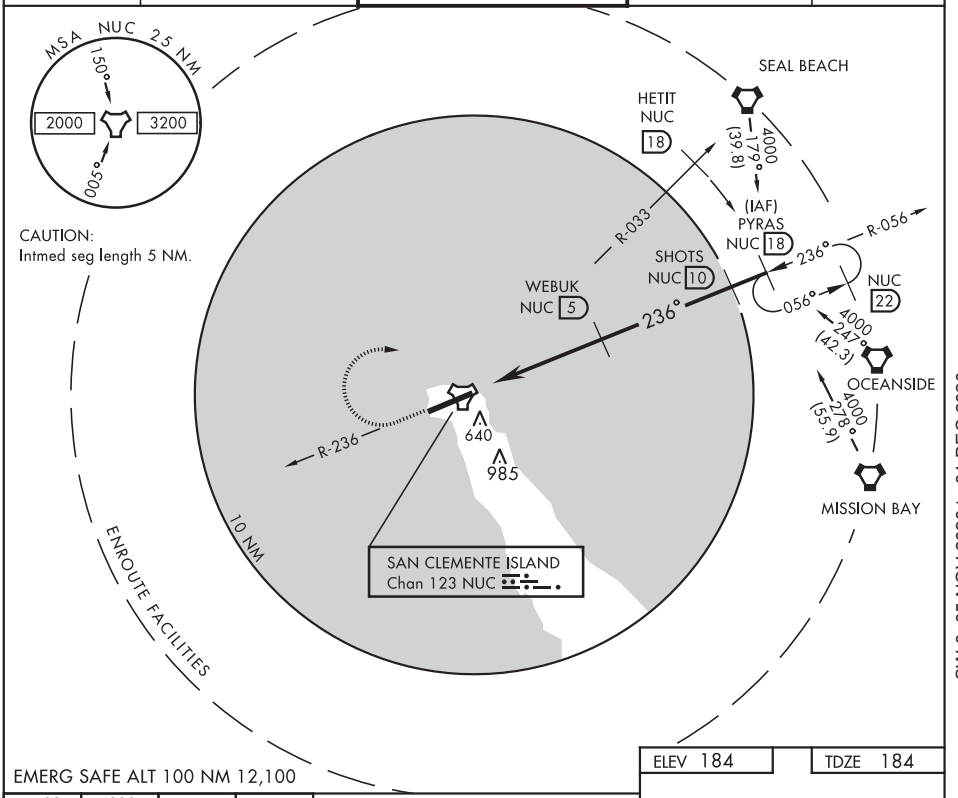
TACAN	APCH CRS	Rwy Idg	9301
Chan 123	236°	TDZE	184
		Arpt Elev	184

AL-5126 [USN]

* Circling not authorized S of Rwy 6-24.

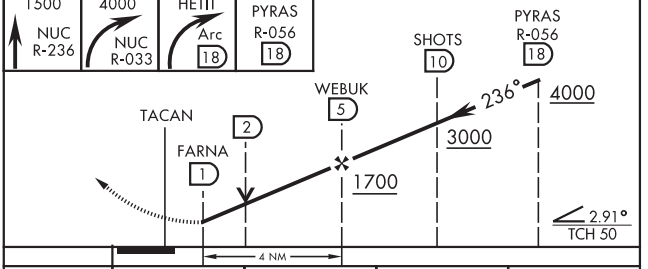
MISSED APPROACH: Climb to 1500 via NUC TACAN R-236 then climbing right turn to 4000 via NUC R-033 to HETIT. Then arc NE of NUC TACAN via the 18 DME arc to PYRAS and hold.

ATIS ★	SAN CLEMENTE APP CON	SAN CLEMENTE ISLAND TOWER ★	GND CON	ASR/PAR
268.6	127.05 292.15	126.75 278.8	(L) 119.55 251.05	

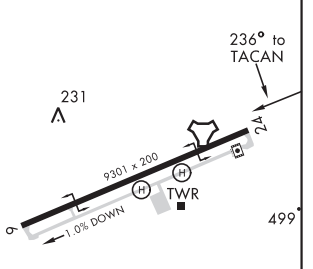


EMERG SAFE ALT 100 NM 12,100

1500	4000	HETIT	PYRAS
NUC R-236	NUC R-033	Arc 18	R-056 18



ELEV 184 TDZE 184



CATEGORY	A	B	C	D
S-24	780-1 596 (600-1)		780-1¾ 596 (600-1¾)	
CIRCLING *	780-1 596 (600-1)		780-1¾ 596 (600-1¾)	780-2 596 (600-2)

REIL Rwy 6
REIL Rwy 24 (L)
HIRL Rwy 6-24 (L)

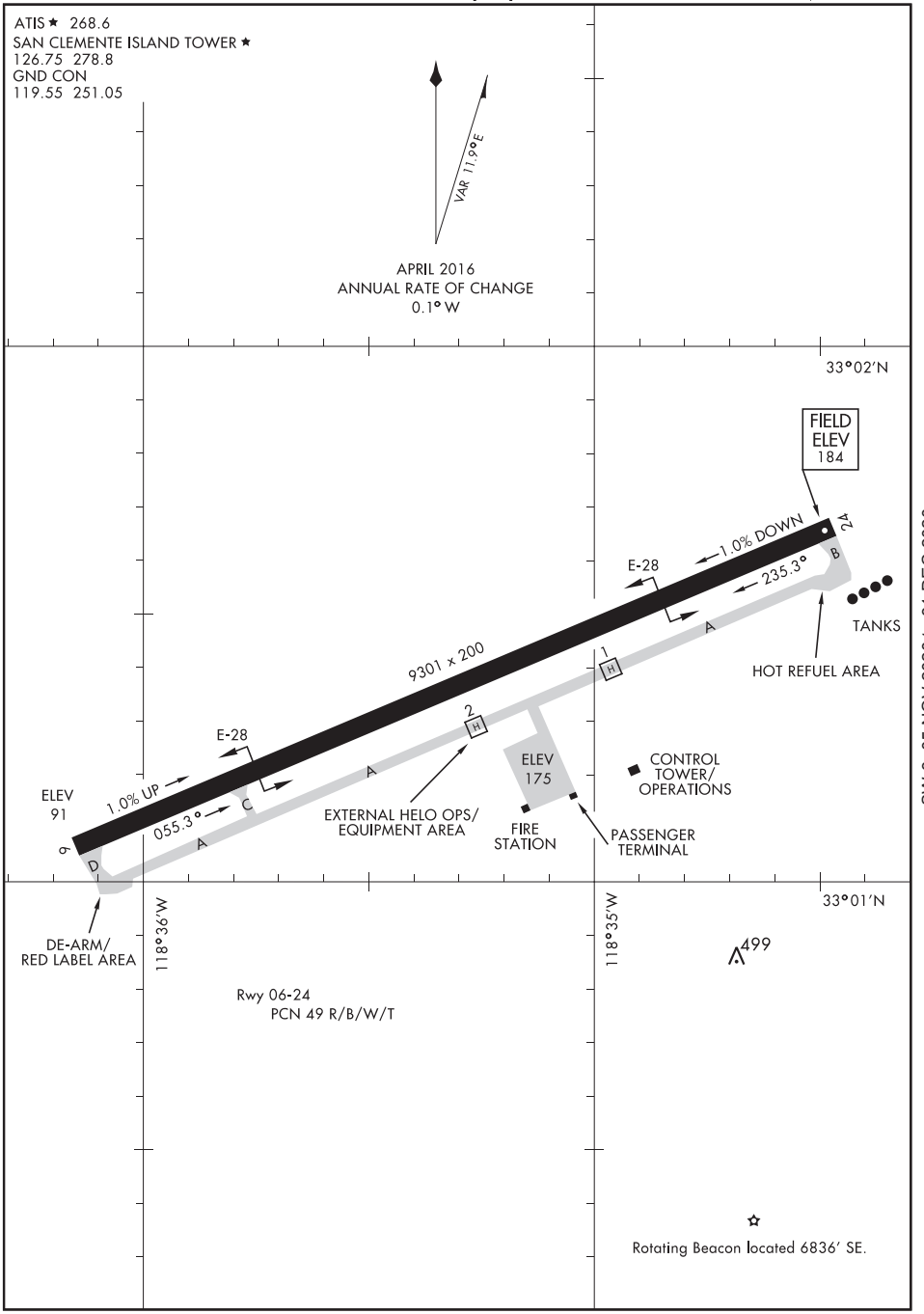
SAN CLEMENTE ISLAND, CALIFORNIA
Amdt 3 25APR19

33°01'N-118°35'W

SAN CLEMENTE ISLAND NALF (KNUC)
(FREDERICK SHERMAN FLD)

TACAN RWY 24

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA AL-5814 (FAA) 19059

WAAS CH 56534 W08A	APP CRS 082°	Rwy Idg 7972 TDZE 526 Apt Elev 526

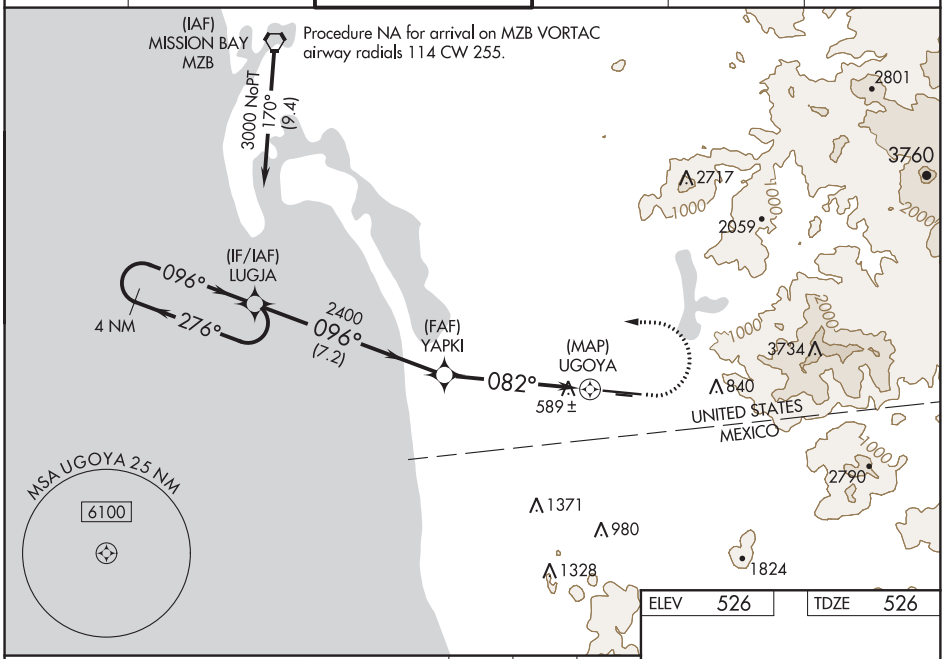
RNAV (GPS) RWY 8L

BROWN FIELD MUNI (SDM)

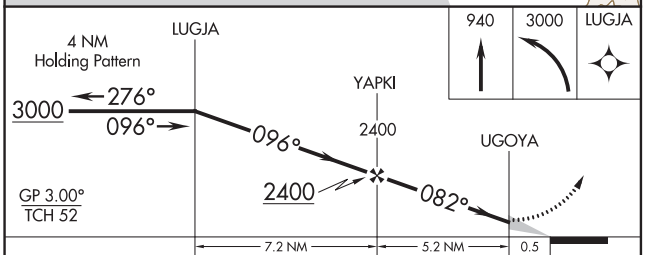
DME/DME RNP-0.3 NA. Circling NA south of Rwy 8R-26L. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2°C (36°F) or above 54°C (130°F). Baro-VNAV NA when using San Diego Intl altimeter setting. When local altimeter setting not received, use San Diego Intl altimeter setting and increase all DA 105 feet and all MDA 120 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats, and LNAV Cats C and D visibility ⅜ mile, and Circling Cat C visibility ½ mile.

MISSED APPROACH: (Do not exceed 210K until LUGJA) Climb to 940 then climbing left turn to 3000 direct LUGJA and hold.

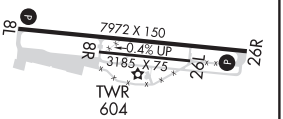
ATIS	SOCAL APP CON	BROWN TOWER ★	GND CON	CLNC DEL	UNICOM
132.35	124.35 279.625	128.25 (CTAF) L 225.4	124.4	124.4	122.95



ELEV	526	TDZE	526



CATEGORY	A	B	C	D
LPV DA	726-¾ 200 (200-¾)			
LNAV/VNAV DA	776-¾ 250 (300-¾)			
LNAV MDA	840-1 314 (400-1)		840-⅞ 314 (400-⅞)	
C CIRCLING	980-1 454 (500-1)	1000-1 474 (500-1)	1180-1¾ 654 (700-1¾)	2260-3 1734 (1800-3)



REIL Rwy 26R
REIL Rwy 8L L
MIRL Rwy 8R-26L L
HIRL Rwy 8L-26R L

SAN DIEGO, CALIFORNIA
Amdt 1B 28APR16

32°34'N-116°59'W

BROWN FIELD MUNI (SDM)
RNAV (GPS) RWY 8L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC PGY	APP CRS	Rwy Idg	N/A
116.45	156°	TDZE	N/A
Chan 111 (Y)		Apt Elev	526

VOR or TACAN-A
BROWN FIELD MUNI (SDM)

T A Circling NA south of Rwy 8R-26L.

MISSED APPROACH: Climbing right turn 4000 to MZB VORTAC and hold. (TACAN aircraft continue on MZB VORTAC R-304 to REDIN INT/MZB VORTAC 13.4 DME and hold NW, LT, 124° inbound)

ATIS	SOCAL APP CON	BROWN TOWER ★	GND CON	CLNC DEL	UNICOM
132.35	124.35 279.625	128.25 (CTAF) L 225.4	124.4	124.4	122.95

Procedure NA for arrival on MZB VORTAC airway radials 076 CW 114.

IAF MISSION BAY 117.8 MZB Chan 125

R-304 R-336 R-076 R-103

256° 076° 4000 076° (10.7)

(IF) HAILE PGY 10.3

156° 2400 (6.1)

FINLE INT PGY 4.2

POGGI 116.45 PGY Chan 111 (Y)

ZEKLU PGY 2

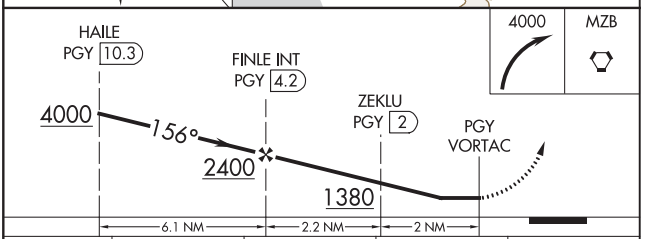
MSA PGY 25 NM 180° 4800 7700 090° 270° 3000 5400 360°

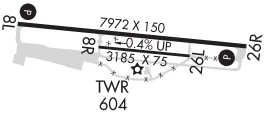
TACAN MISSED APCH FIX 304° 124° REDIN MZB 13.4 R-304 R-162 117.8 MZB Chan 125 115.3 OCN Chan 100

4187 3358± 2458± 2801 3836 3760 2757± 2717 2059 3734 840 3885 2790 1371 980 1824 1328

UNITED STATES MEXICO

ELEV 526





CATEGORY	A	B	C	D
C CIRCLING	1380-2¾ 854 (900-2¾)			2260-3 1734 (1800-3)
ZEKLU FIX MINIMUMS (DME REQUIRED)				
C CIRCLING	1140-2¾ 614 (700-2¾)		1340-2¾ 814 (900-2¾)	2260-3 1734 (1800-3)

REIL Rwy 26R
REIL Rwy 8L L
MIRL Rwy 8R-26L L
HIRL Rwy 8L-26R L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20310

AIRPORT DIAGRAM

BROWN FIELD MUNI (SDM)
SAN DIEGO, CALIFORNIA

AL-5814 (FAA)

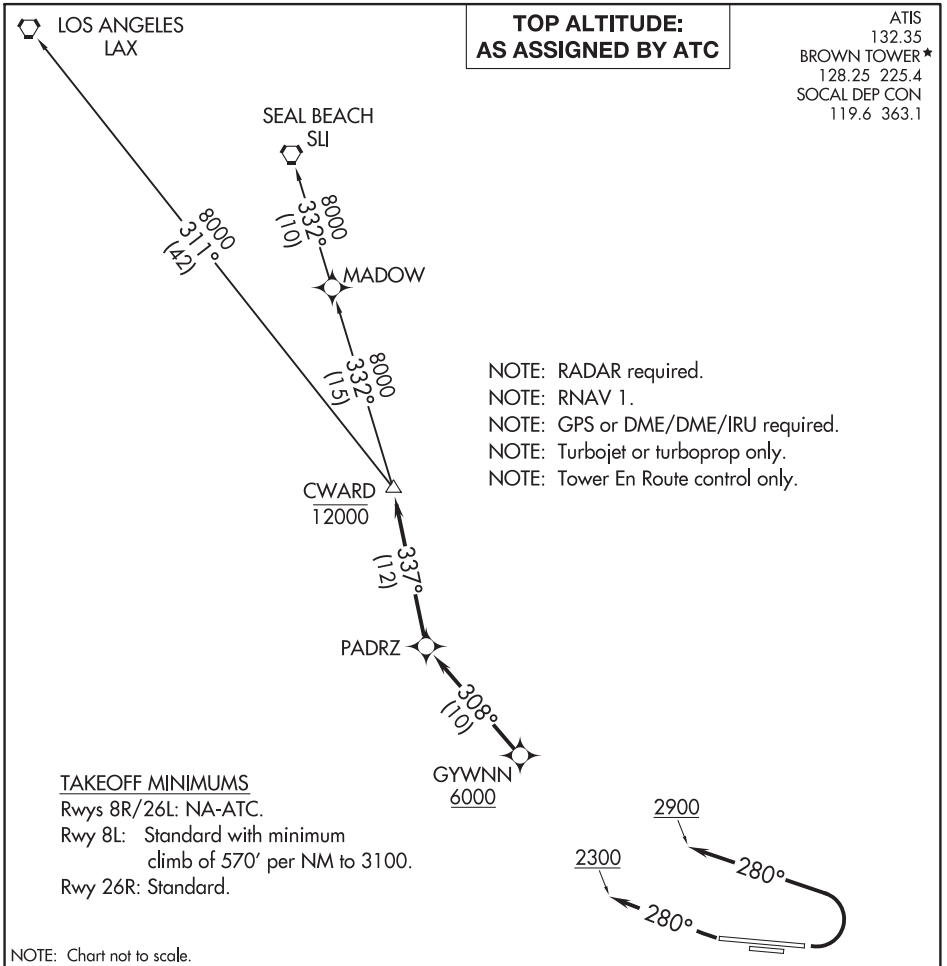
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

20310

SAN DIEGO, CALIFORNIA
BROWN FIELD MUNI (SDM)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8L: Climbing left turn heading 280° to 2900, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

TAKEOFF RUNWAY 26R: Climbing right turn heading 280° to 2300, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

. . . .on transition. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

LOS ANGELES TRANSITION (CWARD2.LAX)
SEAL BEACH TRANSITION (CWARD2.SLI)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(PADRZ2.PADRZ) 17341

PADRZ TWO DEPARTURE (RNAV)

AL-5814 (FAA)

BROWN FIELD MUNI (SDM)
SAN DIEGO, CALIFORNIA

ATIS
132.35
BROWN TOWER ★
128.25 225.4
SOCAL DEP CON
119.6 363.1

TOP ALTITUDE: 15000

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8L: Climbing left turn heading 280° to 2900, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

TAKEOFF RUNWAY 26R: Climbing right turn heading 280° to 2300, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

. . . .on (transition). Maintain 15000. Expect higher altitude 10 minutes after departure.

CHKNN TRANSITION (PADRZ2.CHKNN)
IKAYE TRANSITION (PADRZ2.IKAYE)
OROSZ TRANSITION (PADRZ2.OROSZ)
SHAFTER TRANSITION (PADRZ2.EHF)

SHAFTER
EHF
16000
309°
(37)
LANDO
OROSZ
16000
327°
(8)
16000
342°
(61)
TWINE
16000
326°
(20)
IKAYE
RIDDL
16000
326°
(16)
CHKNN
10000
304°
(81)
16000
324°
(12)
HFMNN
(30)
10000
310°
PADRZ
308°
(10)
GYWNN
8000
2900
280°
2300
280°

TAKEOFF MINIMUMS
Rwys 8R/26L: NA-ATC.
Rwy 8L: Standard with minimum climb of 570' per NM to 3100.
Rwy 26R: Standard.

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: Turbojets and turboprops only.
NOTE: CHKNN, SHAFTER, IKAYE, OROSZ TRANSITIONS: DME/DME/IRU or GPS required.
NOTE: DINTY, MALIT TRANSITIONS: GPS only.
NOTE: For non-GPS equipped aircraft, Oceanside (OCN) must be operational.
NOTE: DINTY TRANSITION ATC assigned only.
NOTE: DINTY and MALIT TRANSITIONS NA from SEE, SDM and RNM airports.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LOC/DME I-MYF	APP CRS	Rwy Idg	3399
111.95	281°	TDZE	423
Chan 56(Y)		Apt Elev	427

ILS or LOC RWY 28R

MONTGOMERY-GIBBS EXECUTIVE (MYF)

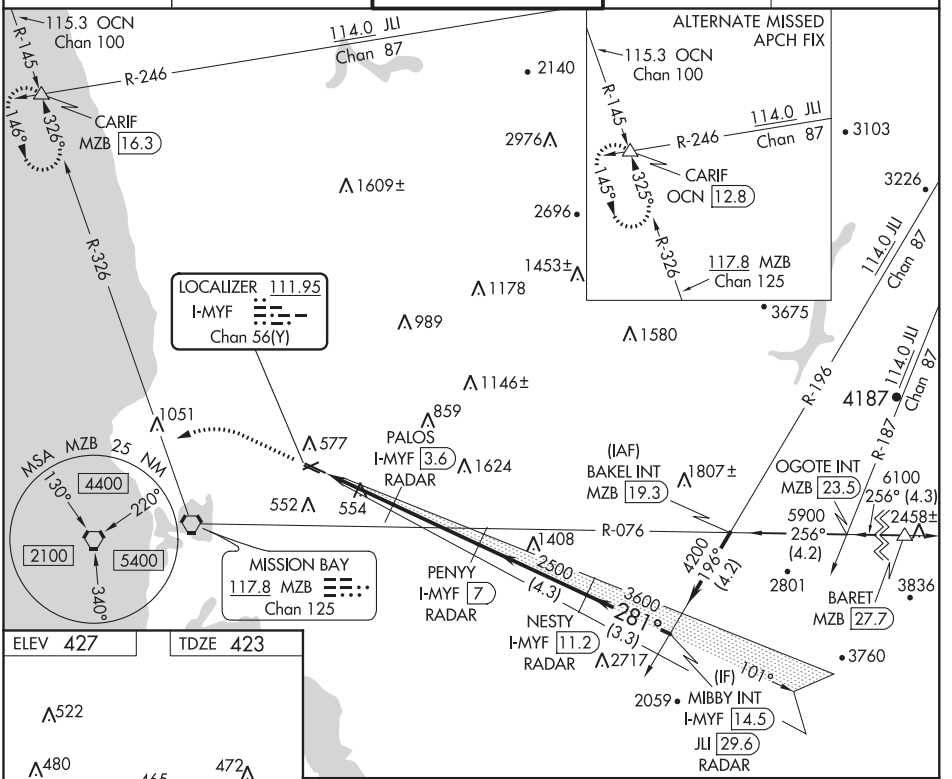
DME or RADAR required.

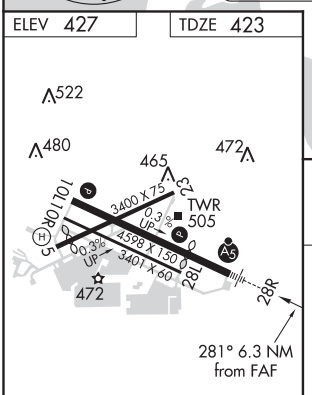
T Rwy 28R helicopter visibility reduction below ¾ SM NA.

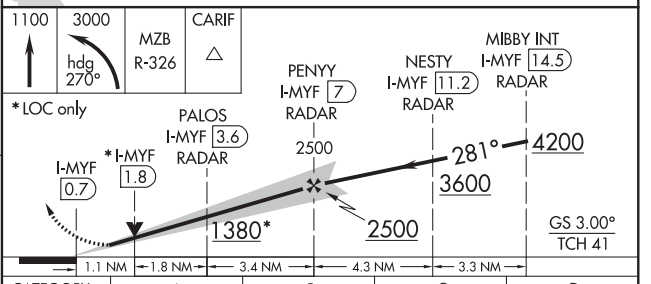
MALSR

MISSED APPROACH: Climb to 1100 then climbing left turn to 3000 on heading 270° and MZB VORTAC R-326 to CARIF INT/MZB 16.3 DME and hold.

ATIS	SOCAL APP CON	MONTGOMERY TOWER ★	GND CON	CLNC DEL
126.9	124.35 279.625	119.2 (CTAF) L 269.4	118.225	123.725







REIL Rwy 28L
MIRL Rwy 10L-28R

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-ILS 28R	673-¾ 250 (300-¾)		NA	
S-LOC 28R	820-¾ 397 (400-¾)		NA	
CIRCLING	920-1 493 (500-1)		NA	

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 28R

MONTGOMERY-GIBBS EXECUTIVE (MYF)

WAAS	APP CRS	Rwy Idg	3399
CH 45710	281°	TDZE	423
W28A		Apt Elev	427

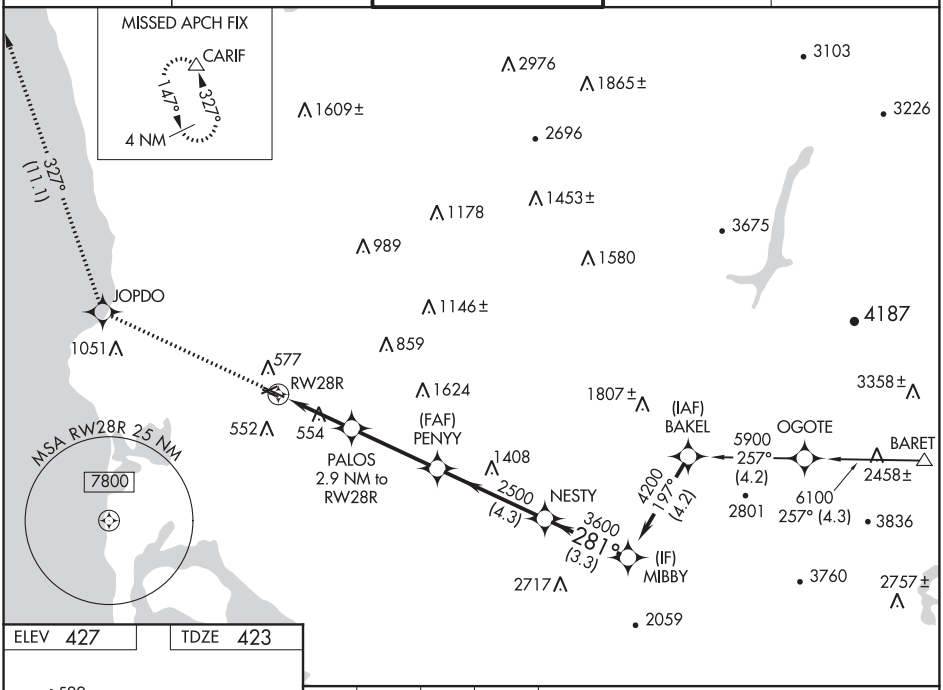
RNP APCH.

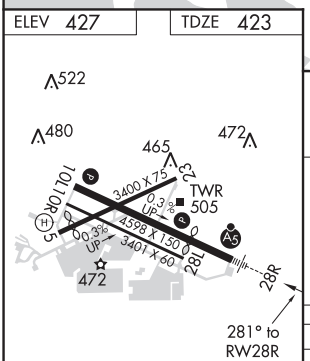
Rwy 28R helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

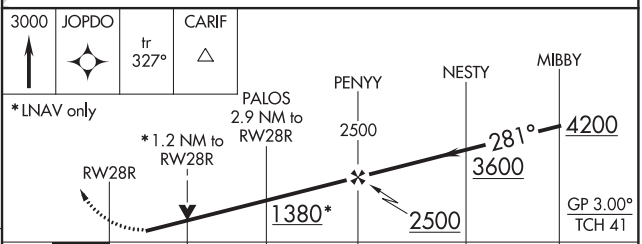
MALSR

MISSED APPROACH: Climb to 3000 direct JOPDO and on track 327° to CARIF and hold.

ATIS	SOCAL APP CON	MONTGOMERY TOWER ★	GND CON	CLNC DEL
126.9	124.35 279.625	119.2 (CTAF) 269.4	118.225	123.725



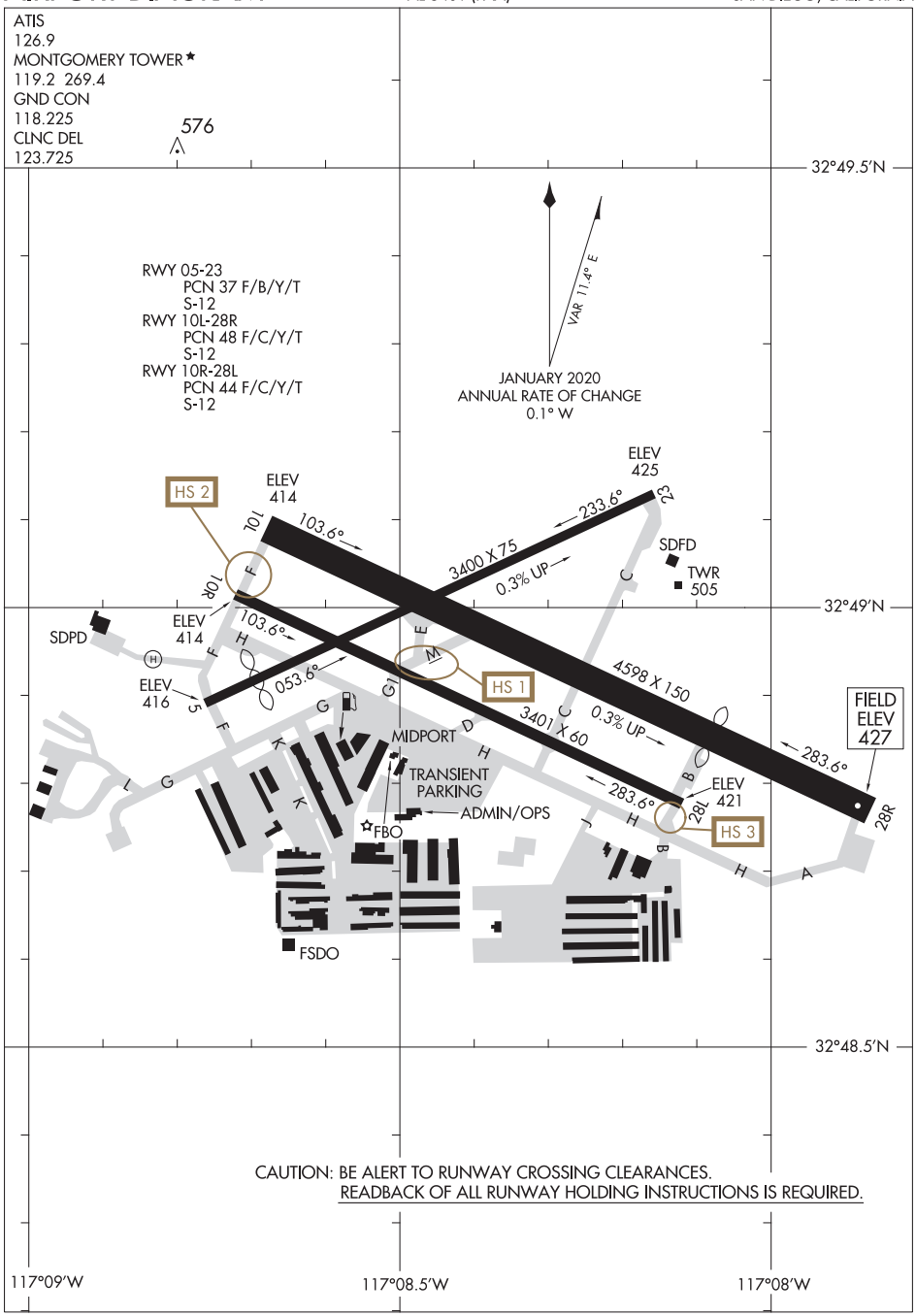




CATEGORY	A	B	C	D
LPV DA	673-¾	250 (300-¾)	NA	
LNAV/VNAV DA	750-¾	327 (400-¾)	NA	
LNAV MDA	840-¾	417 (500-¾)	NA	
CIRCLING	920-1	493 (500-1)	NA	

REIL Rwy 28L
MIRL Rwy 10L-28R

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020

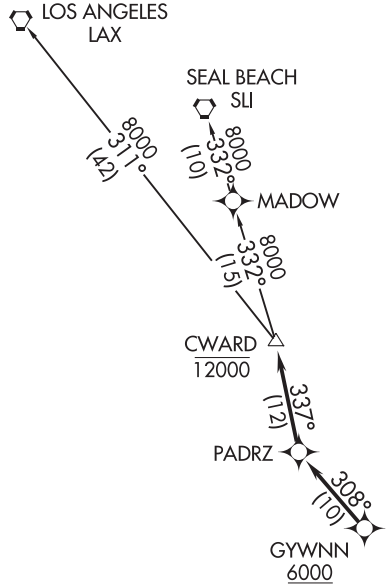
SW-3, 05 NOV 2020 to 31 DEC 2020

(CWARD2.CWARD) 17341

CWARD TWO DEPARTURE (RNAV)

AL-5401 (FAA)

MONTGOMERY-GIBBS EXECUTIVE (MYF)
SAN DIEGO, CALIFORNIA

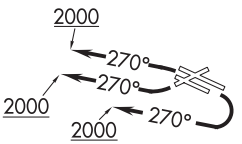


TOP ALTITUDE: AS ASSIGNED BY ATC

ATIS 126.9
MONTGOMERY TOWER★ 119.2 269.4
SOCAL DEP CON 119.6 363.1

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GPS or DME/DME/IRU required.
NOTE: Turbojet and turboprop only.
NOTE: Tower En Route control only.

TAKEOFF MINIMUMS
Rwy 5: NA-ATC.
Rwys 10L/R, 23, 28L/R: Standard.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 10L/R: Climbing right turn heading 270° to 2000, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .
TAKEOFF RUNWAY 23: Climbing right turn heading 270° to 2000, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .
TAKEOFF RUNWAYS 28L/R: Climbing left turn heading 270° to 2000, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

. . . .on transition. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

LOS ANGELES TRANSITION (CWARD2.LAX)
SEAL BEACH TRANSITION (CWARD2.SLI)

SW-3, 05 NOV 2020 to 31 DEC 2020

ATIS
126.9
MONTGOMERY TOWER★
119.2 269.4
SOCAL DEP CON
119.6 363.1

TOP ALTITUDE: 15000

DEPARTURE ROUTE DESCRIPTION

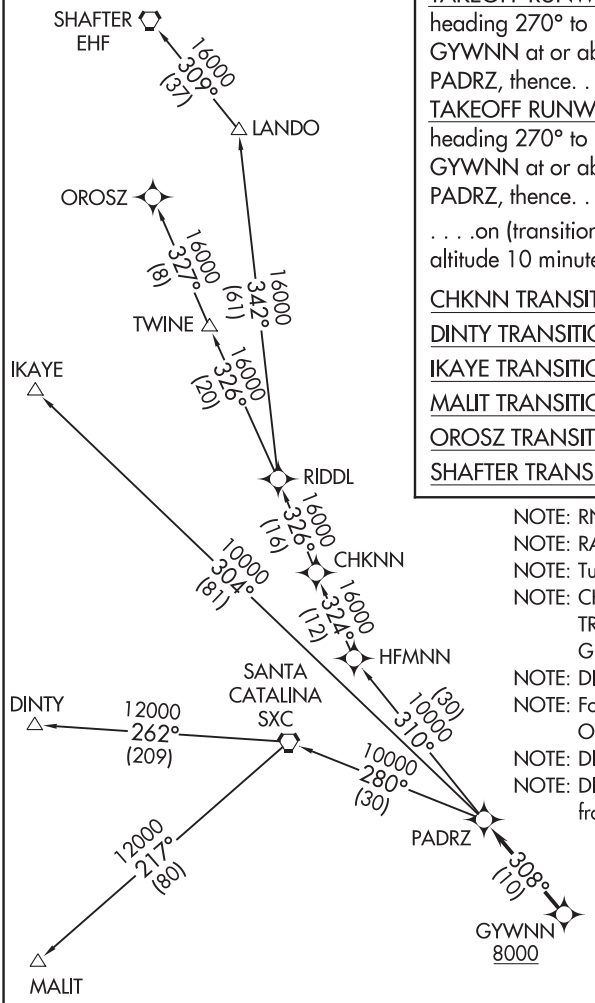
TAKEOFF RUNWAYS 10L/10R: Climbing right turn heading 270° to 2000, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

TAKEOFF RUNWAY 23: Climbing right turn heading 270° to 2000, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

TAKEOFF RUNWAYS 28L/28R: Climbing left turn heading 270° to 2000, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

. . . .on (transition). Maintain 15000. Expect higher altitude 10 minutes after departure.

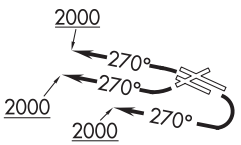
CHKNN TRANSITION (PADRZ2.CHKNN)
DINTY TRANSITION (PADRZ2.DINTY)
IKAYE TRANSITION (PADRZ2.IKAYE)
MALIT TRANSITION (PADRZ2.MALIT)
OROSZ TRANSITION (PADRZ2.OROSZ)
SHAFTER TRANSITION (PADRZ2.EHF)



NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: Turbojets and turboprops only.
NOTE: CHKNN, SHAFTER, IKAYE, OROSZ TRANSITIONS: DME/DME/IRU or GPS required.
NOTE: DINTY, MALIT TRANSITIONS: GPS only.
NOTE: For non-GPS equipped aircraft, Oceanside (OCN) must be operational.
NOTE: DINTY TRANSITION ATC assigned only.
NOTE: DINTY and MALIT TRANSITIONS NA from SEE, SDM and RNM airports.

TAKEOFF MINIMUMS
Rwy 5: NA-ATC.
Rwys 10L/10R, 23, 28L/R: Standard.

NOTE: Chart not to scale.



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA | AL-373 (FAA) | 19227

ILS Y or LOC Y RWY 9

SAN DIEGO INTL (SAN)

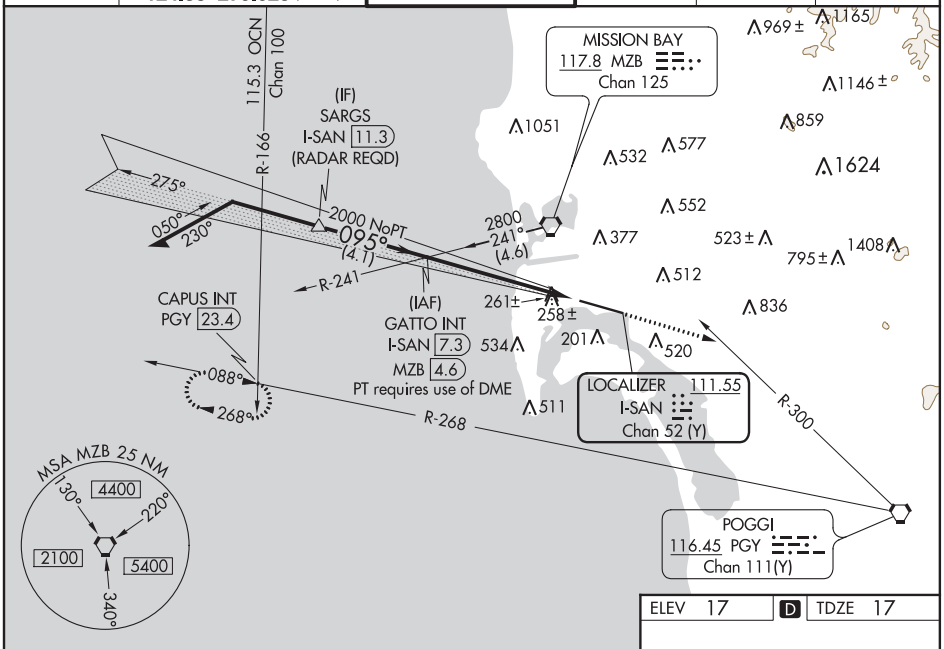
LOC/DME I-SAN	APP CRS	Rwy Idg	7280
111.55	095°	TDZE	17
Chan 52 (Y)		Apt Elev	17

T A Circling NA north of Rwy 9-27. Autopilot coupled approach NA below 530. When Circling to Rwy 27 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. For inop ALS, increase S-ILS 9 all Cats visibility to 2½ SM. Rwy 9 helicopter visibility reduction below RVR 4000 NA.
Inop table does not apply to S-ILS 9.

MALSR (A5)

MISSED APPROACH: Climb to 5000 on heading 095° and on PGY VORTAC R-300 to PGY VORTAC, then right turn on PGY VORTAC R-268 to CAPUS INT/23.4 DME and hold.
Missed approach requires minimum climb of 270 feet per NM to 4000.

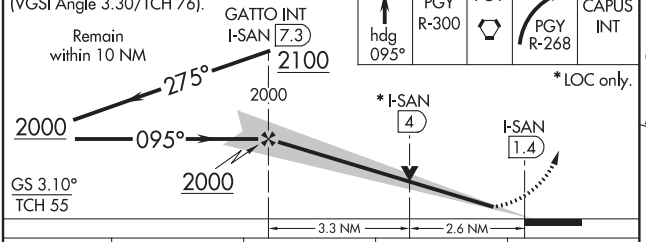
D-ATIS	SOCAL APP CON	LINDBERGH TOWER	GND CON	CLNC DEL	CPDLC
134.8	119.6 363.1 (WEST) 124.35 279.625 (EAST)	118.3 338.225	123.9	125.9	



SW-3, 05 NOV 2020 to 31 DEC 2020

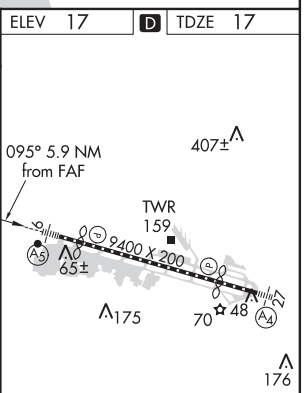
SW-3, 05 NOV 2020 to 31 DEC 2020

VGSI and ILS glidepath not coincident (VGSI Angle 3.30/TCH 76).



5000 hdg 095°	PGY R-300	PGY	PGY R-268	CAPUS INT

* LOC only.



TDZ/CL Rwys 9 and 27
HIRL Rwy 9-27

CATEGORY	A	B	C	D
S-ILS 9#	258/40 241 (300-¾)			
S-ILS 9	751-2 734 (800-2)			
S-LOC 9	960/40 943 (1000-¾)		960-2 943 (1000-2)	
C CIRCLING	960-1¼ 943 (1000-1¼)		960-2¾ 943 (1000-2¾)	960-3 943 (1000-3)

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

SAN DIEGO, CALIFORNIA
Amdt 2B 15AUG19

32°44'N-117°11'W

SAN DIEGO INTL (SAN)
ILS Y or LOC Y RWY 9

ILS Z or LOC Z RWY 9

SAN DIEGO INTL (SAN)

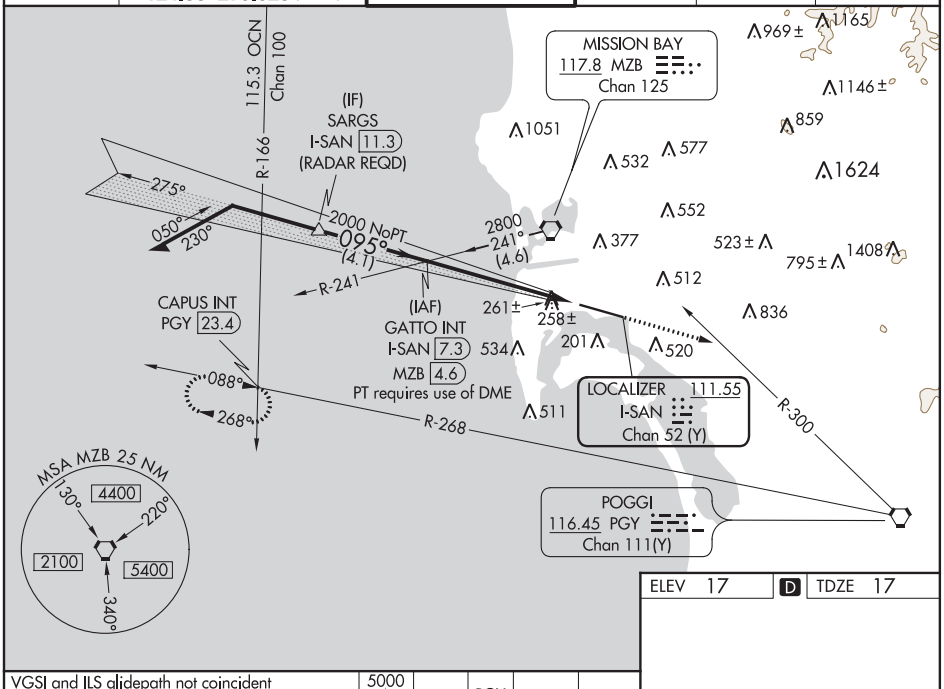
LOC/DME I-SAN	APP CRS	Rwy Idg	7280
111.55	095°	TDZE	17
Chan 52 (Y)		Apt Elev	17

T A Circling NA north of Rwy 9-27. Autopilot coupled approach NA below 530. When Circling to Rwy 27 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. For inop ALS, increase S-LOC Cat A/B visibility to RVR 5500, and Cat C/D to 1⅜ SM. LOC only: Rwy 9 helicopter visibility reduction below RVR 4000 NA.

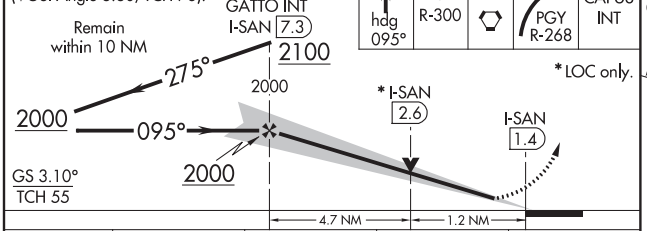
MALSR (A5)

MISSED APPROACH: Climb to 5000 on heading 095° and on PGY VORTAC R-300 to PGY VORTAC, then right turn on PGY VORTAC R-268 to CAPUS INT/23.4 DME and hold.
#Missed approach requires minimum climb of 280 feet per NM to 3800; if unable to meet climb gradient, see ILS Y or LOC Y RWY 9.

D-ATIS	SOCAL APP CON	LINDBERGH TOWER	GND CON	CLNC DEL	CPDLC
134.8	119.6 363.1 (WEST) 124.35 279.625 (EAST)	118.3 338.225	123.9	125.9	

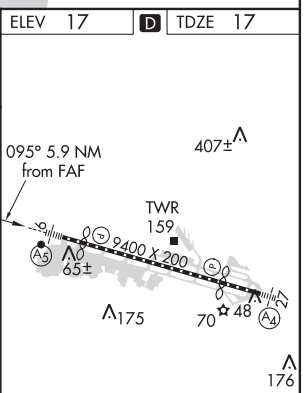


VGSI and ILS glidepath not coincident (VGSI Angle 3.30/TCH 76).



5000 hdg 095°	PGY R-300	PGY	PGY R-268	CAPUS INT

* LOC only.



TDZ/CL Rwys 9 and 27
HIRL Rwy 9-27

CATEGORY	A	B	C	D
S-ILS 9 #	217/18 200 (200-½)			
S-LOC 9	520/40 503 (600-¾)		520/55 503 (600-1)	
C CIRCLING	800-1 783 (800-1)	820-1 803 (900-1)	820-2¼ 803 (900-2¼)	940-3 923 (1000-3)

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA | AL-373 (FAA) | 19227

APP CRS	Rwy Idg	7590
275°	TDZE	17
	Apt Elev	17

RNAV (RNP) Z RWY 27

SAN DIEGO INTL (SAN)

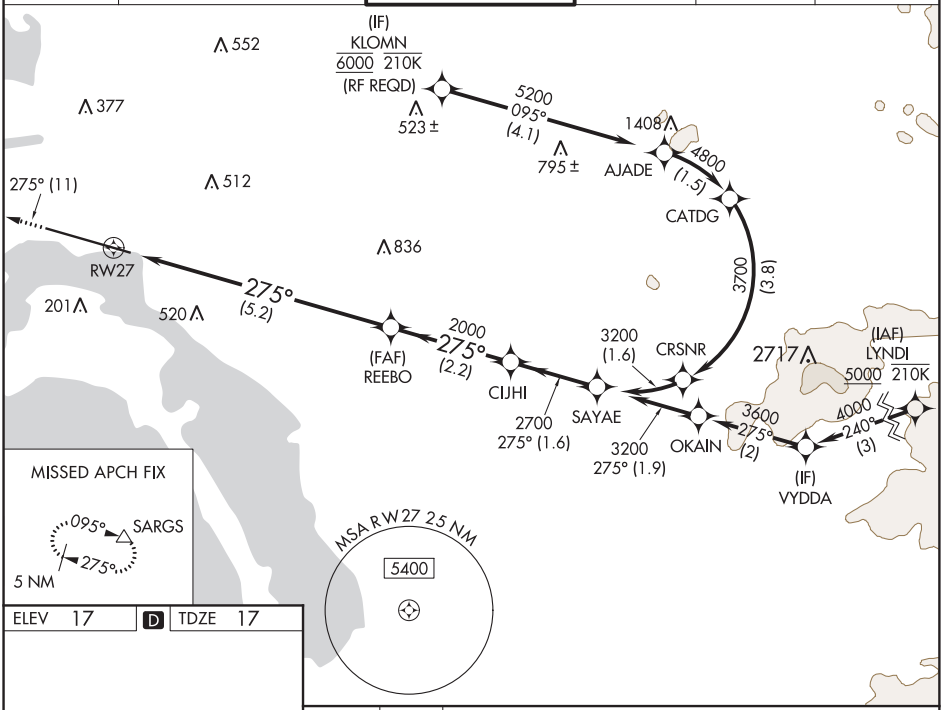
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below 6°C or above 46°C. Straight-in Rwy 27 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. For inop ALS, increase RNP 0.30 all Cats visibility to 2½ SM.

MALS

MISSED APPROACH: Climb to 2500 on track 275° to SARGS and hold.

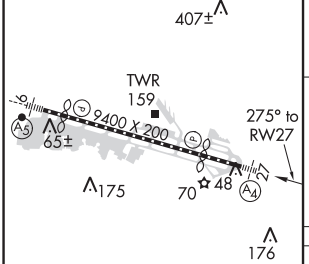
D-ATIS	SOCAL APP CON	LINDBERGH TOWER	GND CON	CLNC DEL	CPDLC
134.8	119.6 363.1 (WEST) 124.35 279.625 (EAST)	118.3 338.225	123.9	125.9	



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

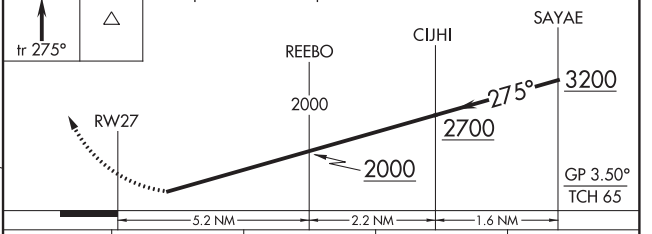
ELEV 17 | D | TDZE 17



TDZ/CL Rwys 9 and 27
HIRL Rwy 9-27

2500 tr 275° | SARGS

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.11 DA	617-1½ 600 (600-1½)			
RNP 0.30 DA	778-2 761 (800-2)			

AUTHORIZATION REQUIRED

SAN DIEGO, CALIFORNIA
Orig-A 15AUG19

32°44'N-117°11'W

SAN DIEGO INTL (SAN)

RNAV (RNP) Z RWY 27

WAAS	APP CRS	Rwy Idg	7280
CH 49237	095°	TDZE	17
W09A		Apt Elev	17

RNAV (GPS) RWY 9

SAN DIEGO INTL (SAN)

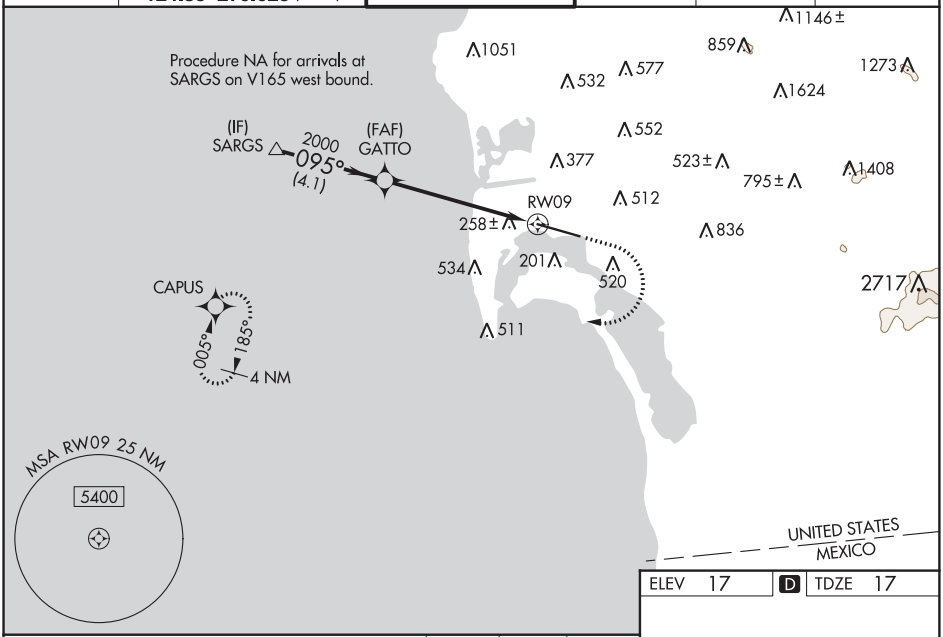
RNP APCH.

Circling NA north of Rwy 9-27. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 6°C or above 47°C. When Circling to Rwy 27 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Rwy 9 helicopter visibility reduction below RVR 4000 NA. Inop table does not apply to LPV all Cats. For inop ALS, increase LNAV Cats A/B visibility to RVR 5500.

MALSR

MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct CAPUS and hold.

D-ATIS	SOCAL APP CON	LINDBERGH TOWER	GND CON	CLNC DEL	CPDLC
134.8	119.6 363.1 (WEST) 124.35 279.625 (EAST)	118.3 338.225	123.9	125.9	

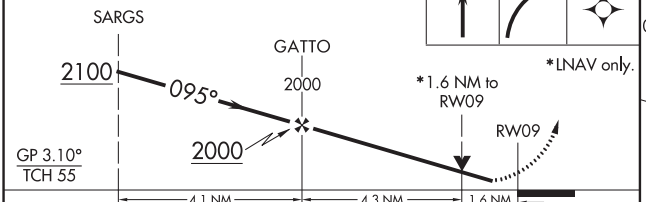


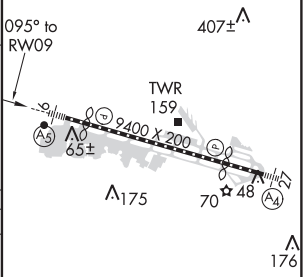
ELEV 17 D TDZE 17

VGSI and RNAV glidepath not coincident (VGSI Angle 3.30/TCH 76).

2000 3000 CAPUS

*LNAV only.





CATEGORY	A	B	C	D
LPV DA	262/40	245 (300-¾)		
LNAV/VNAV DA	621-1½	604 (700-1½)		
LNAV MDA	600/40	583 (600-¾)	600-1¼	583 (600-1¼)
C CIRCLING	800-1 783 (800-1)	820-1 803 (900-1)	820-2¼ 803 (900-2¼)	940-3 923 (1000-3)

TDZ/CL Rwys 9 and 27
HIRL Rwy 9-27

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO, CALIFORNIA | AL-373 (FAA) | 19227

RNAV (GPS) Y RWY 27

SAN DIEGO INTL (SAN)

WAAS	APP CRS	Rwy Idg	7590
CH 82527	275°	TDZE	17
W27A		Apt Elev	17

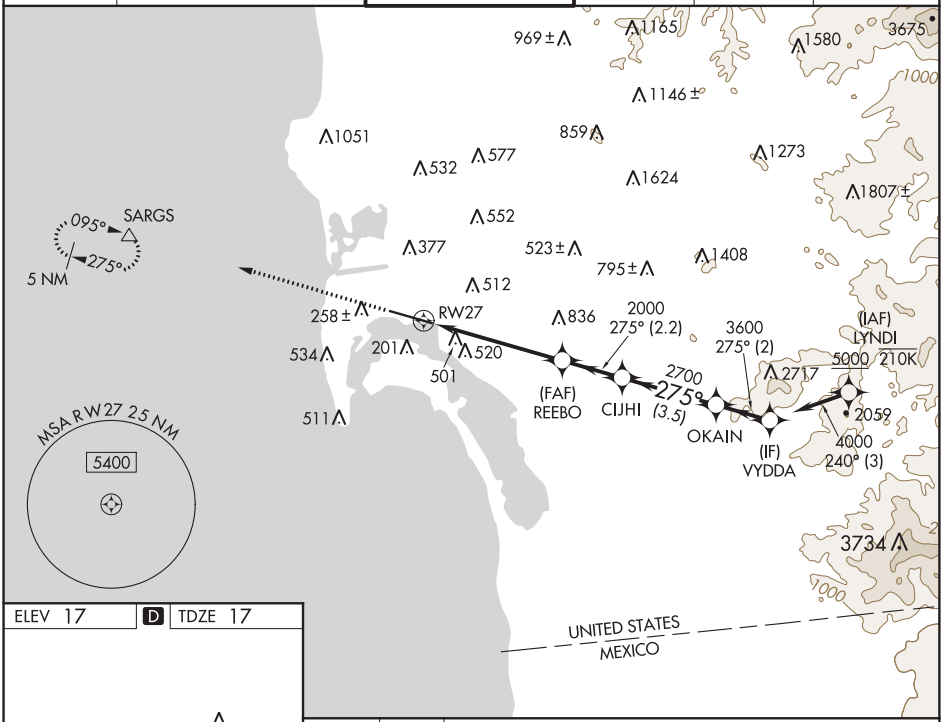
RNP APCH.

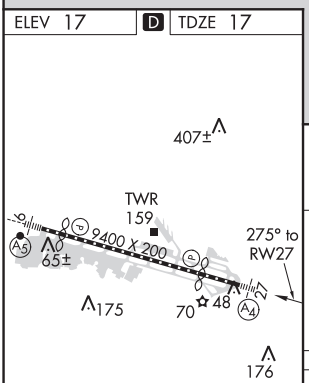
Rwy 27 helicopter visibility reduction below RVR 5000 NA. Straight-in Rwy 27 at night, operational VGSI required, remain on or above VGSI glidepath until threshold. Circling NA north of Rwy 9-27. For inop ALS, increase LNAV Cats C/D visibility to 2 SM. Inop table does not apply to LP Cats A/B and LNAV Cat A.

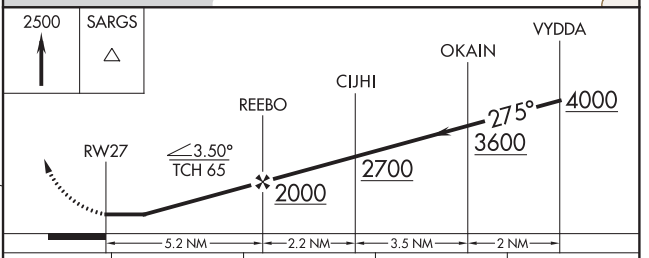
MALS (A4)

MISSED APPROACH: Climb to 2500 direct SARGS and hold.

D-ATIS	SOCAL APP CON	LINDBERGH TOWER	GND CON	CLNC DEL	CPDLC
134.8	119.6 363.1 (WEST) 124.35 279.625 (EAST)	118.3 338.225	123.9	125.9	







CATEGORY	A	B	C	D
LP MDA	680/50 663 (700-1)		680-1¾ 663 (700-1¾)	
LNAV MDA	760/50 743 (800-1)	760/55 743 (800-1)	760-1⅞ 743 (800-1⅞)	
C CIRCLING	820-1 803 (900-1)	820-1¼ 803 (900-1¼)	820-2½ 803 (900-2½)	940-3 923 (1000-3)

TDZ/CL Rwys 9 and 27
HIRL Rwy 9-27

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LOC RWY 27

SAN DIEGO INTL (SAN)

LOC/DME I-UBR	APP CRS	Rwy Idg	7590
110.9	275°	TDZE	17
Chan 46		Apt Elev	17

From LYNDI: RNAV 1-DME/DME/IRU or GPS required.

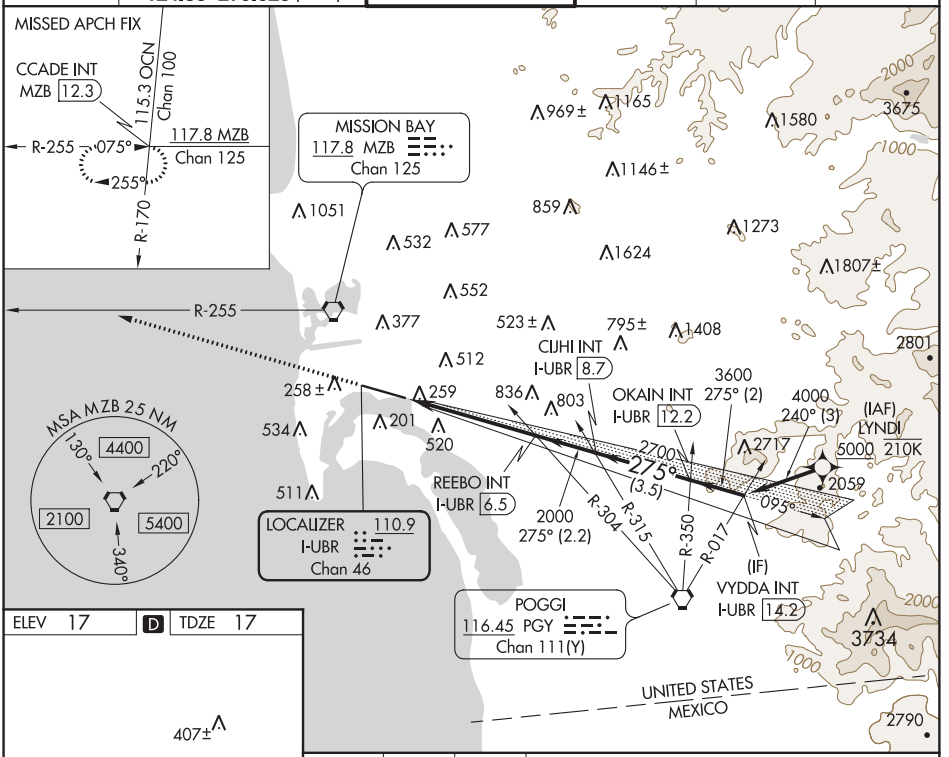
RNAV 1-DME/DME/IRU or GPS required for procedure entry.

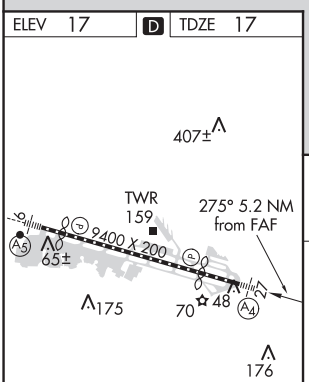
T A Rwy 27 helicopter visibility reduction below 1 SM NA. Circling NA north of Rwy 9-27. Inop table does not apply to Cats A and B. For inop ALS, increase S-27 Cats C and D visibility to 1⅞ SM.

MALS (A4)

MISSED APPROACH: Climb to 2500 on heading 275° and on MZB VORTAC R-255 to CCADE INT/MZB 12.3 DME and hold.

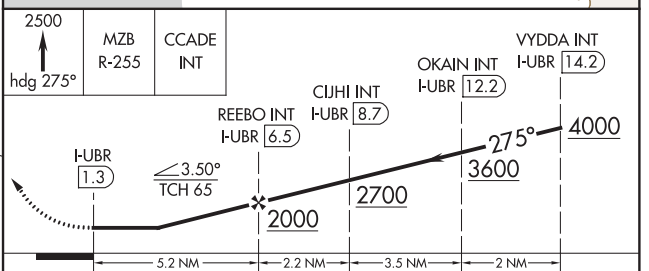
D-ATIS	SOCAL APP CON	LINDBERGH TOWER	GND CON	CLNC DEL	CPDLC
134.8	119.6 363.1 (WEST) 124.35 279.625 (EAST)	118.3 338.225	123.9	125.9	





TDZ/CL Rwys 9 and 27
HIRL Rwy 9-27

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44



CATEGORY	A	B	C	D
S-27	680-1	663 (700-1)	680-1¾	663 (700-1¾)
C CIRCLING	820-1	803 (900-1)	840-2½ 823 (900-2½)	940-3 923 (1000-3)

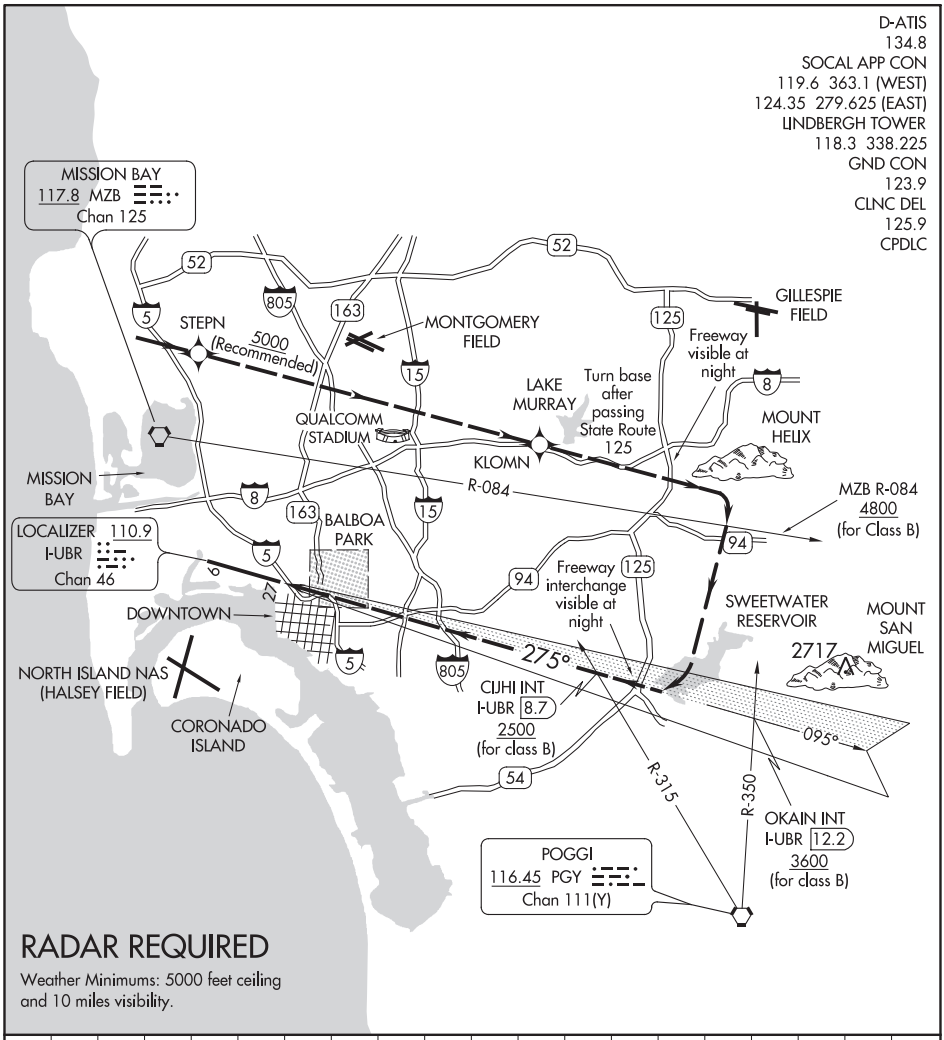
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

19227

SWEETWATER VISUAL RWY 27

AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA



SWEETWATER VISUAL APPROACH RWY 27

SWEETWATER VISUAL RWY 27

SAN DIEGO, CALIFORNIA
SAN DIEGO INTL (SAN)

Amdt 1 31MAR16

32°44'N-117°11'W

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

BORDER SEVEN DEPARTURE

(BRDR7.BROWS) 20AUG15

SAN DIEGO, CALIFORNIA

SAN DIEGO INTL (SAN)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb on heading 093° to intercept MZB VORTAC R-096 to BROWS INT. Thence. . . .

TAKEOFF RUNWAY 27: Climb on heading 278° until PGY 19 DME, then left turn on heading 123° to intercept PGY VORTAC R-260 and R-069 to BROWS INT. Thence. . . .

. . . . (transition) or (assigned route). Maintain assigned altitude. Expect filed altitude/flight level 10 minutes after departure.

IMPERIAL TRANSITION (BRDR7.IPL): From over BROWS INT on PGY R-069 and IPL R-250 to IPL VORTAC.

JULIAN TRANSITION (BRDR7.JLI): From over BROWS INT on JLI R-182 to JLI VORTAC.

TOP ALTITUDE: ASSIGNED BY ATC

D-ATIS 134.8
CLNC DEL 125.9
CPDLC
GND CON 123.9
LINDBERGH TOWER 118.3 338.225
SOCAL DEP CON
EAST 124.35 279.625
WEST 119.6 363.1

N

JULIAN
114.0 JLI
Chan 87
N33°08.43′-W116°35.16′
L-4, H-4

R-182

8500
*7800
002°
(32)

TAKEOFF MINIMUMS

Rwy 9: 400-1 with minimum climb of 610′ per NM to 1900 or standard with minimum climb of 686′ per NM to 1900.

Rwy 27: 400-2½ or standard with minimum climb of 353′ per NM to 400.

PGY
19

MISSION BAY
117.8 MZB
Chan 125

R-096

278°

093°

096°

123°

080°

R-260

069°
(11)

25

BROWS
N32°37.87′
W116°46.20′

7000
*6100
069°
(64)

50

25

V317

IMPERIAL
115.9 IPL
Chan 106
N32°44.93′-W115°30.51′
L-4, H-4

R-250

POGGI
116.45 PGY
Chan 111(Y)
N32°36.62′-W116°58.75′

NOTE: Rwy 9- RADAR required.

NOTE: Rwy 27- DME required.

NOTE: Chart not to scale.

(BRDR7.BROWS) 19227

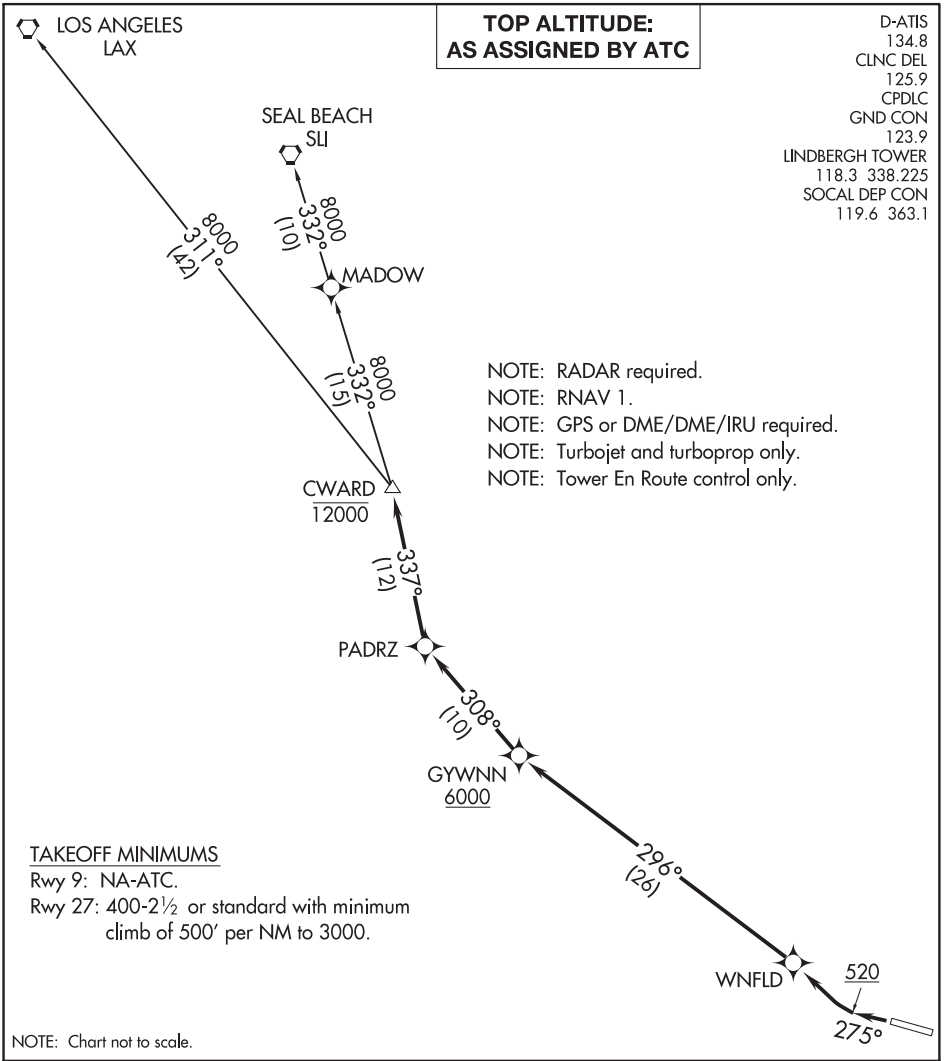
BORDER SEVEN DEPARTURE

AL-373 (FAA)

SAN DIEGO, CALIFORNIA

SAN DIEGO INTL (SAN)

380



SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 27: Climb heading 275° to 520, then right turn direct WNFLD, then on track 296° to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

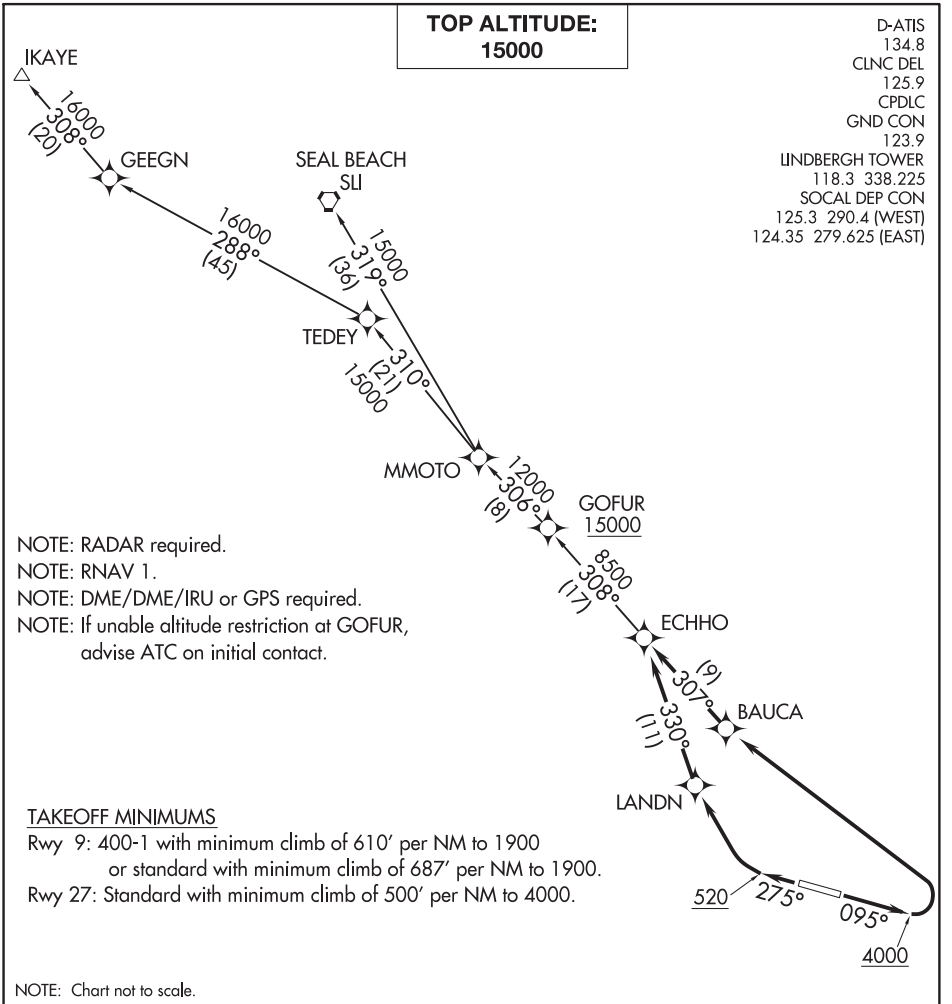
. . . .on transition. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

LOS ANGELES TRANSITION (CWARD2.LAX)
SEAL BEACH TRANSITION (CWARD2.SLI)

(ECHHO2.ECHHO) 17285

ECHHO TWO DEPARTURE (RNAV) AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA



NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb heading 095° to 4000, then left turn direct BAUCA, then on track 307° to ECHHO, thence. . . .

TAKEOFF RUNWAY 27: Climb heading 275° to 520, then right turn direct LANDN, then on track 330° to ECHHO, thence. . . .

. . . .on (transition), maintain 15000. Expect filed altitude 10 minutes after departure.

IKAYE TRANSITION (ECHHO2.IKAYE)

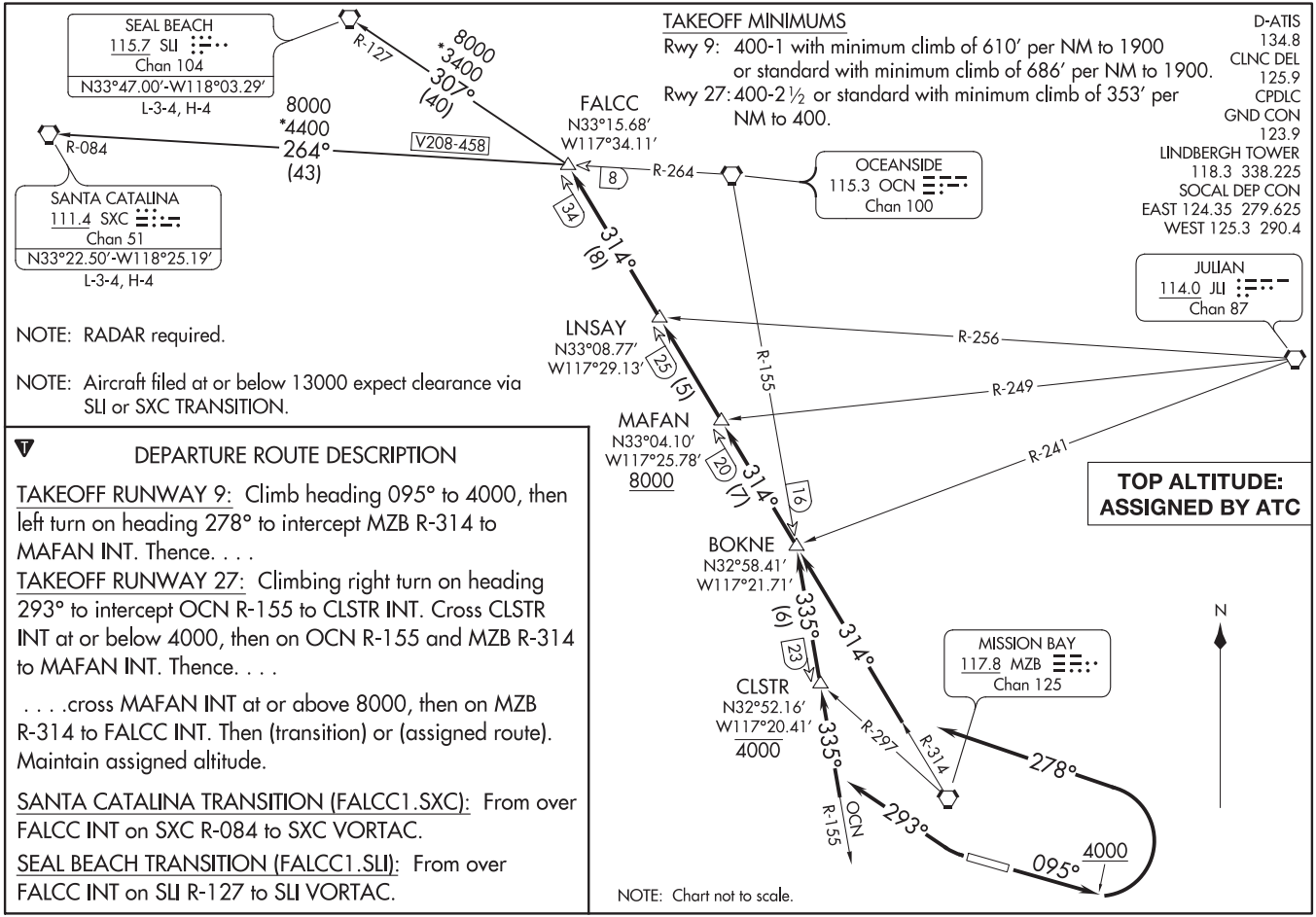
SEAL BEACH TRANSITION (ECHHO2.SLI)

FALCC ONE DEPARTURE

(FALCC1.FALCC) 10NOV16

SAN DIEGO, CALIFORNIA

SAN DIEGO INTL (SAN)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb heading 095° to 4000, then left turn on heading 278° to intercept MZB R-314 to MAFAN INT. Thence. . . .

TAKEOFF RUNWAY 27: Climbing right turn on heading 293° to intercept OCN R-155 to CLSTR INT. Cross CLSTR INT at or below 4000, then on OCN R-155 and MZB R-314 to MAFAN INT. Thence. . . .

. . . .cross MAFAN INT at or above 8000, then on MZB R-314 to FALCC INT. Then (transition) or (assigned route). Maintain assigned altitude.

SANTA CATALINA TRANSITION (FALCC1.SXC): From over FALCC INT on SXC R-084 to SXC VORTAC.

SEAL BEACH TRANSITION (FALCC1.SLI): From over FALCC INT on SLI R-127 to SLI VORTAC.

(FALCC1.FALCC) 19939

SAN DIEGO INTL (SAN)

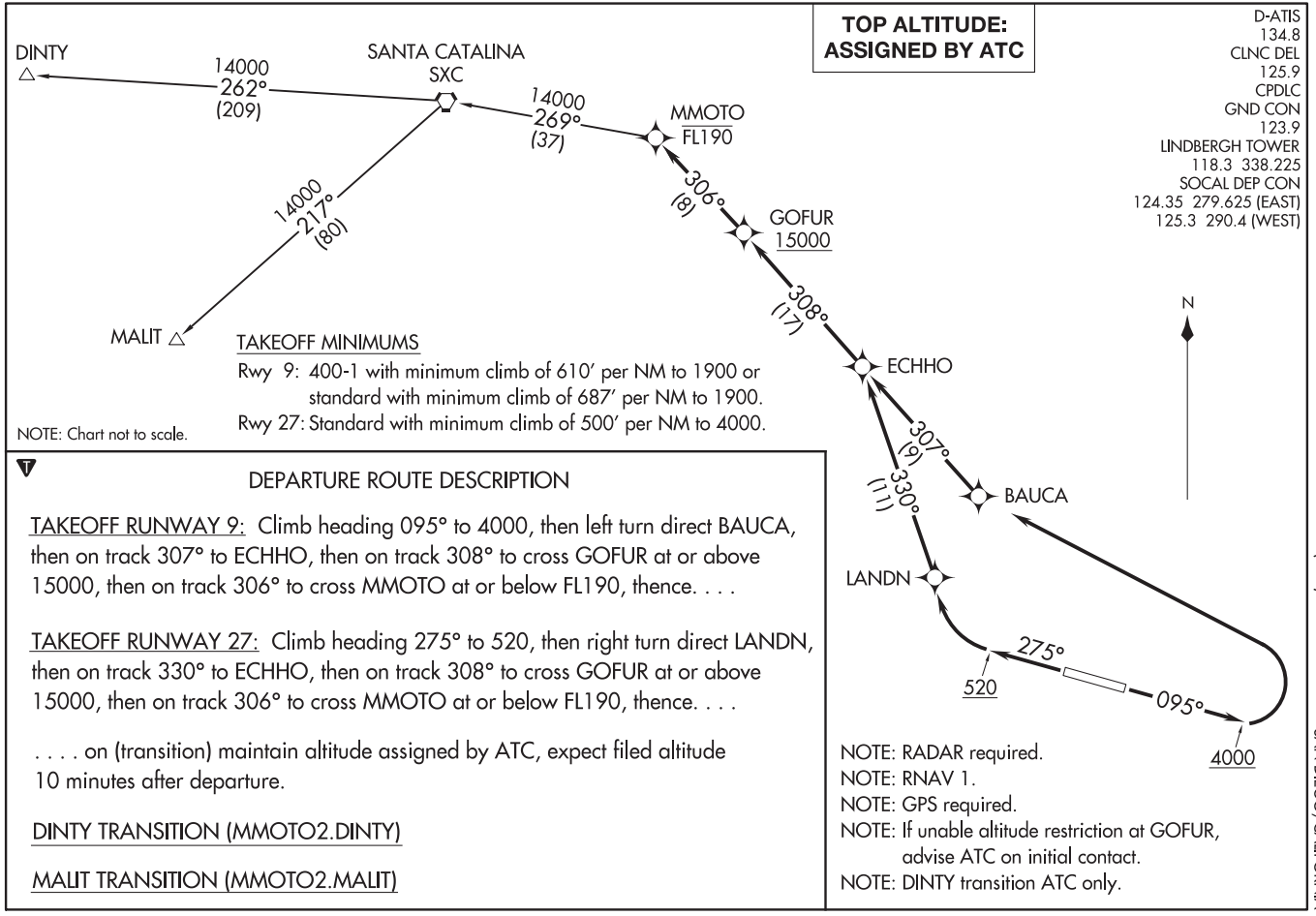
SAN DIEGO, CALIFORNIA

AL-373 (FAA)

MMOTO TWO DEPARTURE (RNAV)

(MMOTO2.MMOTO) 12OCT17

SAN DIEGO, CALIFORNIA
SAN DIEGO INTL (SAN)



TAKEOFF MINIMUMS

Rwy 9: 400-1 with minimum climb of 610′ per NM to 1900 or standard with minimum climb of 687′ per NM to 1900.

Rwy 27: Standard with minimum climb of 500′ per NM to 4000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb heading 095° to 4000, then left turn direct BAUCA, then on track 307° to ECHHO, then on track 308° to cross GOFUR at or above 15000, then on track 306° to cross MMOTO at or below FL190, thence. . . .

TAKEOFF RUNWAY 27: Climb heading 275° to 520, then right turn direct LANDN, then on track 330° to ECHHO, then on track 308° to cross GOFUR at or above 15000, then on track 306° to cross MMOTO at or below FL190, thence. . . .

. . . . on (transition) maintain altitude assigned by ATC, expect filed altitude 10 minutes after departure.

DINTY TRANSITION (MMOTO2.DINTY)

MALIT TRANSITION (MMOTO2.MALIT)

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GPS required.
NOTE: If unable altitude restriction at GOFUR, advise ATC on initial contact.
NOTE: DINTY transition ATC only.

(MMOTO2.MMOTO) 17285

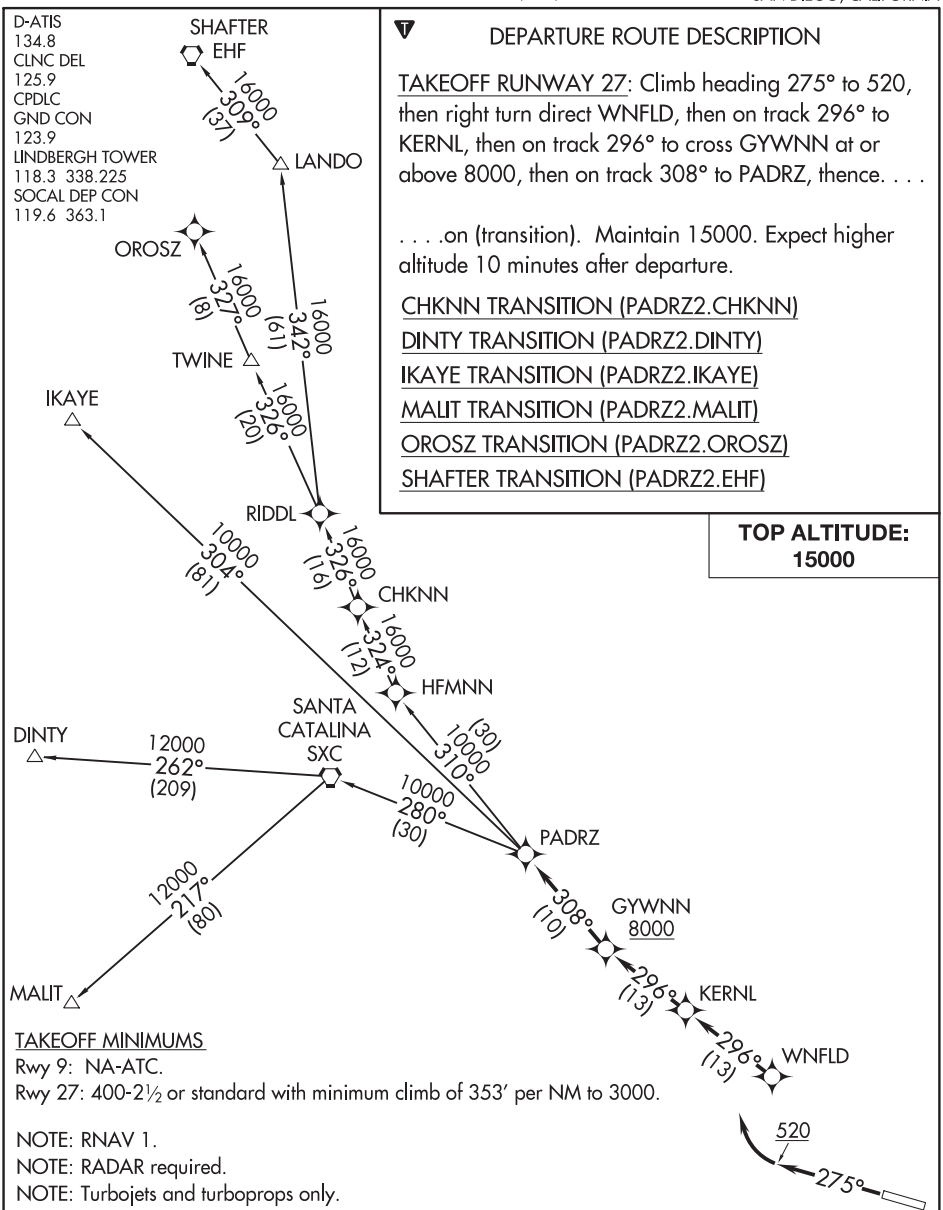
MMOTO TWO DEPARTURE (RNAV)

AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA

PADRZ TWO DEPARTURE (RNAV)

AL-373 (FAA)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 27: Climb heading 275° to 520, then right turn direct WNFLD, then on track 296° to KERNL, then on track 296° to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

. . . .on (transition). Maintain 15000. Expect higher altitude 10 minutes after departure.

CHKNN TRANSITION (PADRZ2.CHKNN)
DINTY TRANSITION (PADRZ2.DINTY)
IKAYE TRANSITION (PADRZ2.IKAYE)
MALIT TRANSITION (PADRZ2.MALIT)
OROSZ TRANSITION (PADRZ2.OROSZ)
SHAFTER TRANSITION (PADRZ2.EHF)

TOP ALTITUDE: 15000

TAKEOFF MINIMUMS
Rwy 9: NA-ATC.
Rwy 27: 400-2½ or standard with minimum climb of 353' per NM to 3000.

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: Turbojets and turboprops only.
NOTE: CHKNN, SHAFTER, IKAYE, OROSZ TRANSITIONS: DME/DME/IRU or GPS required.
NOTE: DINTY, MALIT TRANSITIONS: GPS only.
NOTE: For non-GPS equipped aircraft, Oceanside (OCN) must be operational.
NOTE: DINTY TRANSITION ATC assigned only.
NOTE: DINTY and MALIT TRANSITIONS NA from SEE, SDM and RNM airports.

NOTE: Chart not to scale.

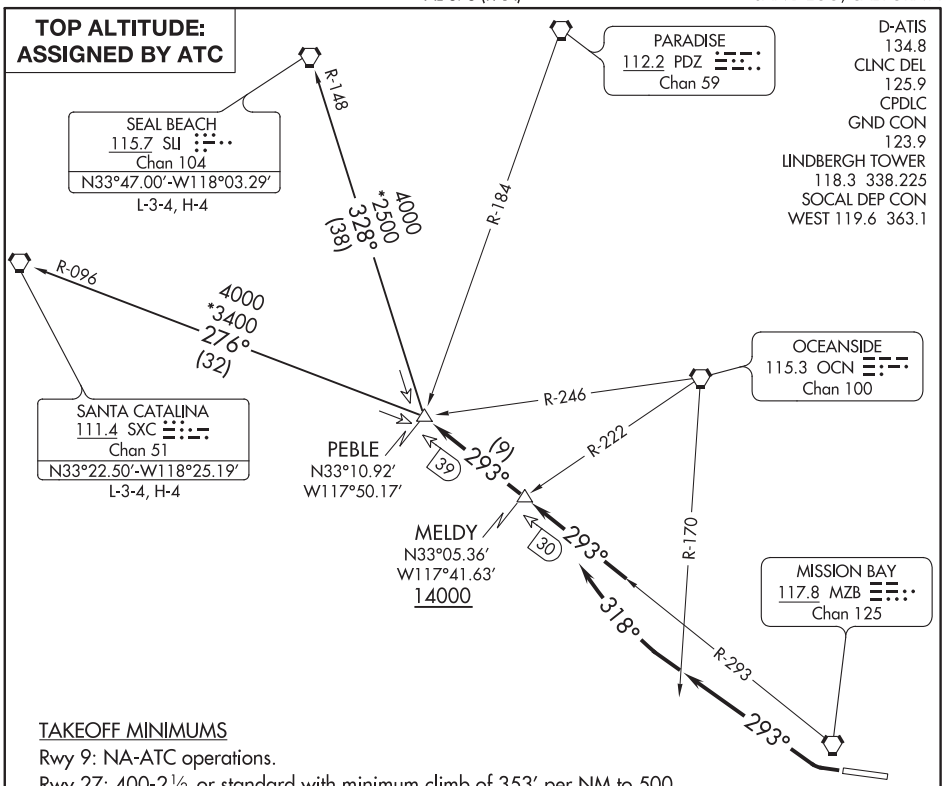
SW-3, 05 NOV 2020 to 31 DEC 2020

(PEBLE6.PEBLE) 20310

PEBLE SIX DEPARTURE

AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA



TAKEOFF MINIMUMS
Rwy 9: NA-ATC operations.
Rwy 27: 400-2½ or standard with minimum climb of 353' per NM to 500.

NOTE: RADAR required.
NOTE: Aircraft climbing above 13000 expect RADAR vectors northwest bound prior to PEBLE INT.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

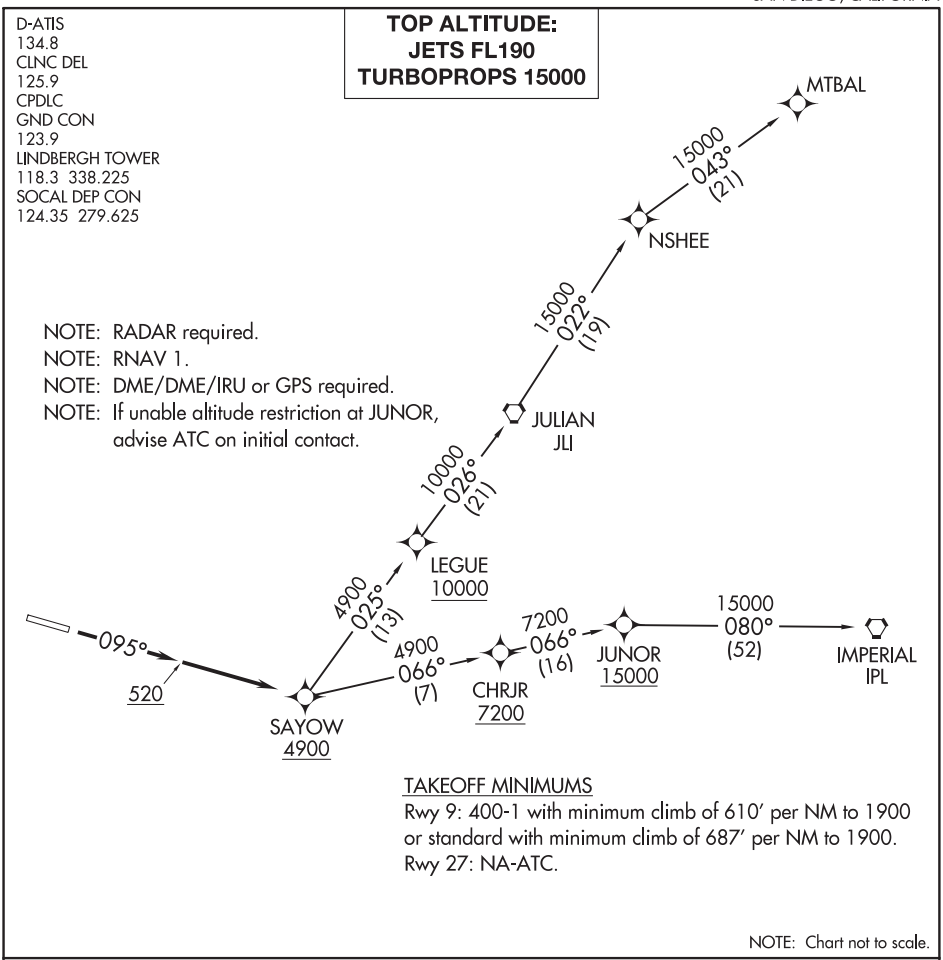
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 27: Climbing right turn heading 293° until crossing OCN VORTAC R-170, then turn right heading 318° to intercept MZB VORTAC R-293 to cross MELDY INT/MZB 30 DME at or above 14000 (or lower ATC assigned altitude) then on MZB R-293 to PEBLE INT/MZB 39 DME, thence. . . .

. . . . via (transition) or (assigned route). Maintain assigned altitude.

SANTA CATALINA TRANSITION (PEBLE6.SXC): From over PEBLE INT on SXC R-096 to SXC VORTAC.

SEAL BEACH TRANSITION (PEBLE6.SLI): From over PEBLE INT on SLI R-148 to SLI VORTAC.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb heading 095° to 520, then direct to cross SAYOW at or above 4900, thence . . . .

. . . . on (transition) jets maintain FL190, turboprops maintain 15000, expect filed altitude 10 minutes after departure.

IMPERIAL TRANSITION (SAYOW2.IPL)

MTBAL TRANSITION (SAYOW2.MTBAL)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

ZZOOO TWO DEPARTURE (RNAV)

(ZZOOO2.ZZOOO) 01FEB18

SAN DIEGO, CALIFORNIA
SAN DIEGO INTL (SAN)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 27: Climb heading 275° to 520 then direct to cross JETTI at or below 12000, then left turn direct ZZOOO, thence . . . .

. . . . on (transition). Turbojets maintain FL230, turboprops maintain 15000, expect filed altitude 10 minutes after departure.

CENZA TRANSITION (ZZOOO2.CENZA)

IMPERIAL TRANSITION (ZZOOO2.IPL)

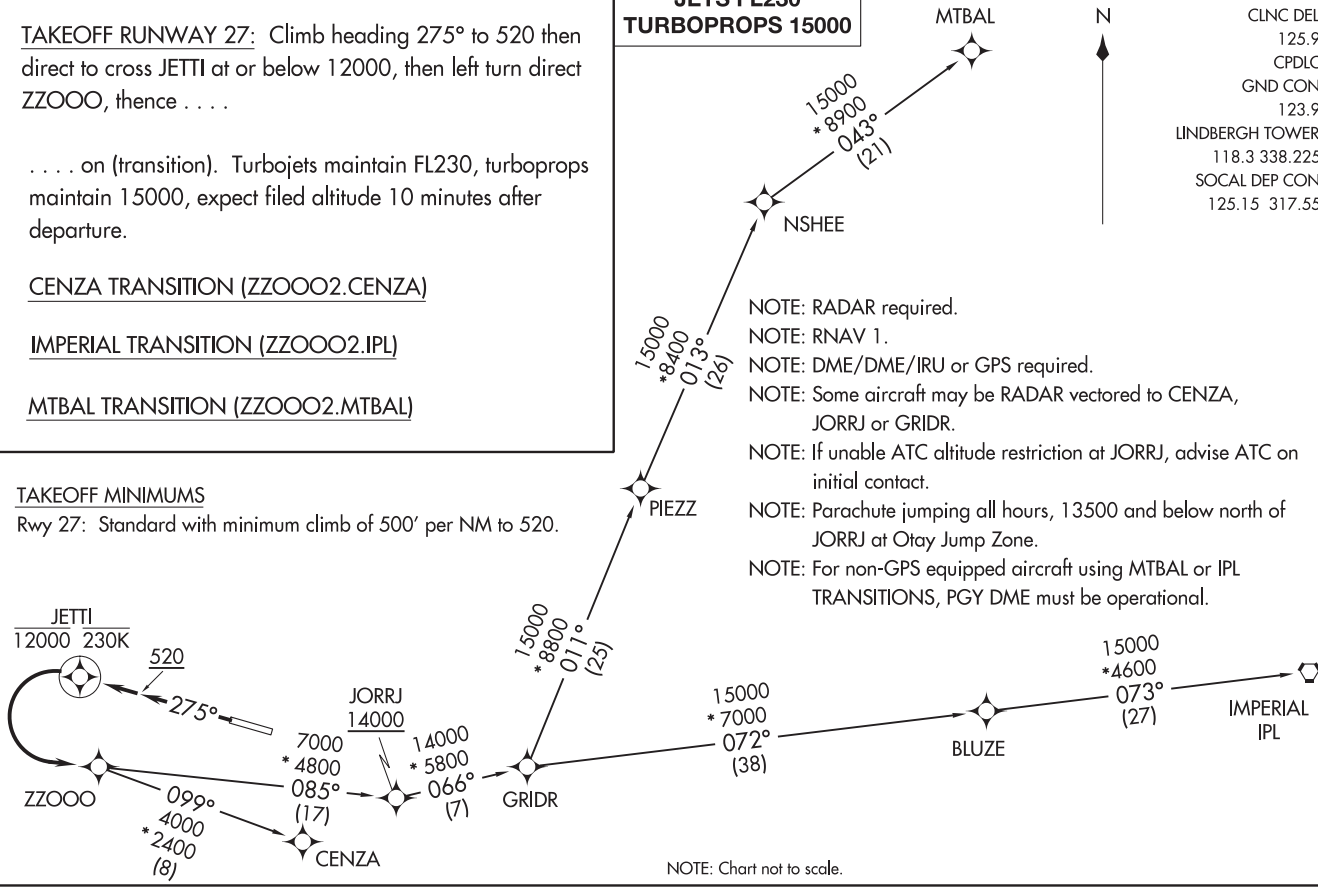
MTBAL TRANSITION (ZZOOO2.MTBAL)

TOP ALTITUDE:
JETS FL230
TURBOPROPS 15000

TAKEOFF MINIMUMS
Rwy 27: Standard with minimum climb of 500′ per NM to 520.

D-ATIS 134.8
CLNC DEL 125.9
CPDLC
GND CON 123.9
LINDBERGH TOWER 118.3 338.225
SOCAL DEP CON 125.15 317.55

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Some aircraft may be RADAR vectored to CENZA, JORRJ or GRIDR.
NOTE: If unable ATC altitude restriction at JORRJ, advise ATC on initial contact.
NOTE: Parachute jumping all hours, 13500 and below north of JORRJ at Otay Jump Zone.
NOTE: For non-GPS equipped aircraft using MTBAL or IPL TRANSITIONS, PGY DME must be operational.



(ZZOOO2.ZZOOO) 18032

ZZOOO TWO DEPARTURE (RNAV)

AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA

RNAV (GPS) RWY 9L

GILLESPIE FIELD (SEE)

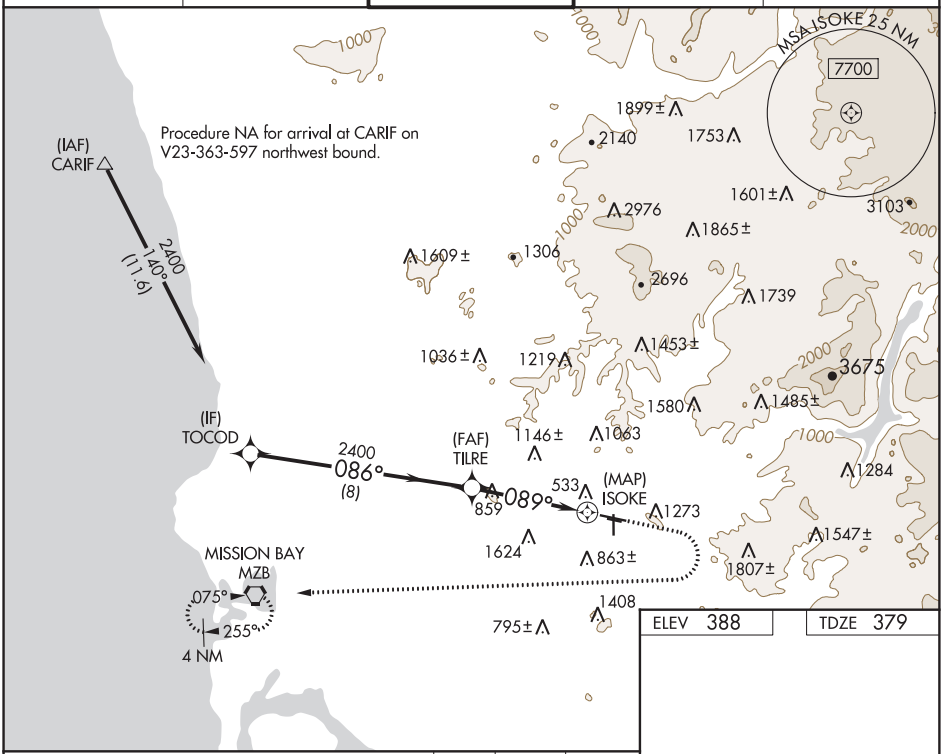
APP CRS	Rwy Idg	5342
089°	TDZE	379
	Apt Elev	388

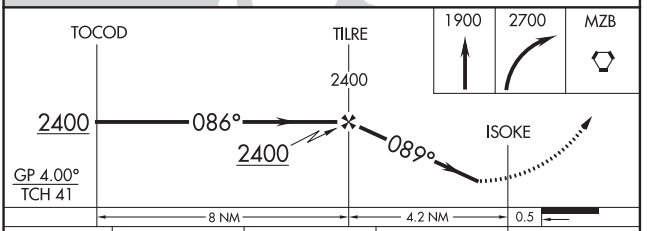
RNP APCH.

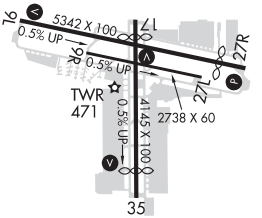
T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C or above 14°C. Circling NA northeast of Rwys 17 and 27R. Circling Rwy 27R, 35 NA at night. Rwy 9L helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 1900 then climbing right turn to 2700 direct MZB VORTAC and hold.

ATIS	SOCAL APP CON	GILLESPIE TOWER★	GND CON	CLNC DEL
125.45	124.35 279.625	120.7 (CTAF) L 257.8	121.7	125.1







CATEGORY	A	B	C	D
LNAV/VNAV DA	1350-3 971 (1000-3)		NA	
LNAV MDA	1720-1¼ 1341 (1400-1¼)	1720-1½ 1341 (1400-1½)	NA	
C CIRCLING	1720-1¼ 1332 (1400-1¼)	1720-1½ 1332 (1400-1½)	NA	

MIRL Rwys 9L-27R and 17-35 L
REIL Rwy 27R L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO/EL CAJON, CALIFORNIA AL-5402 (FAA) 20198

WAAS CH 86928 W17A	APP CRS 147°	Rwy Idg 3695 TDZE 379 Apt Elev 388

RNAV (GPS) RWY 17

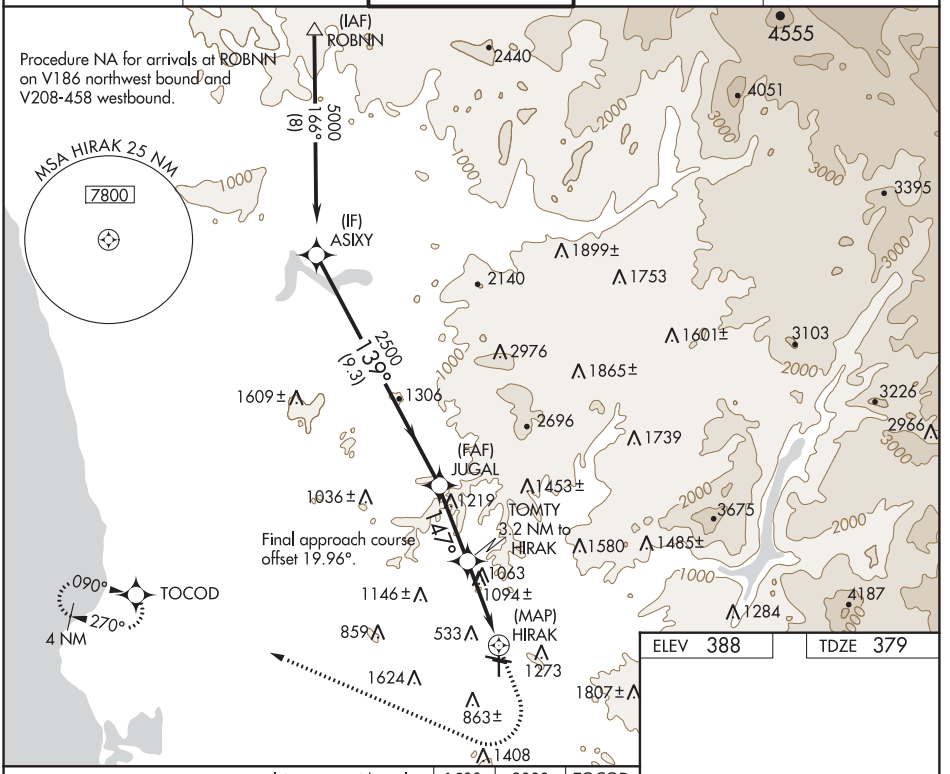
GILLESPIE FIELD (SEE)

RNP APCH.

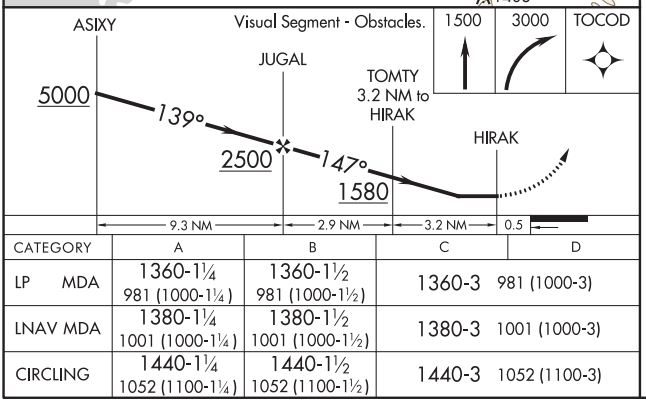
Circling NA northeast of Rwys 17 and 27R. When local altimeter setting not received, use Miramar MCAS altimeter setting and increase all MDA 40 feet. Rwy 17 helicopter visibility reduction below 1 SM NA. Circling Rwy 27R, 35 NA at night.

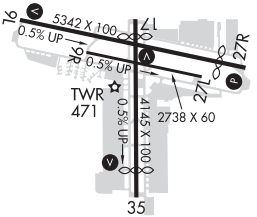
MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct TOCOD and hold.

ATIS	SOCAL APP CON	GILLESPIE TOWER★	GND CON	CLNC DEL
125.45	124.35 279.625	120.7 (CTAF) L 257.8	121.7	125.1



ELEV 388 TDZE 379





CATEGORY	A	B	C	D
LP MDA	1360-1¼ 981 (1000-1¼)	1360-1½ 981 (1000-1½)	1360-3	981 (1000-3)
LNAV MDA	1380-1¼ 1001 (1000-1¼)	1380-1½ 1001 (1000-1½)	1380-3	1001 (1000-3)
CIRCLING	1440-1¼ 1052 (1100-1¼)	1440-1½ 1052 (1100-1½)	1440-3	1052 (1100-3)

MIRL Rwys 9L-27R and 17-35 L
REIL Rwy 27R L

SAN DIEGO/EL CAJON, CALIFORNIA GILLESPIE FIELD (SEE)

Amdt 2F 20JUN19 32°50'N-116°58'W

RNAV (GPS) RWY 17

SW-3, 05 NOV 2020 to 31 DEC 2020

LOC/DME I-SEE	APP CRS	Rwy ldg	N/A
110.5	269°	TDZE	N/A
Chan 42		Apt Elev	388

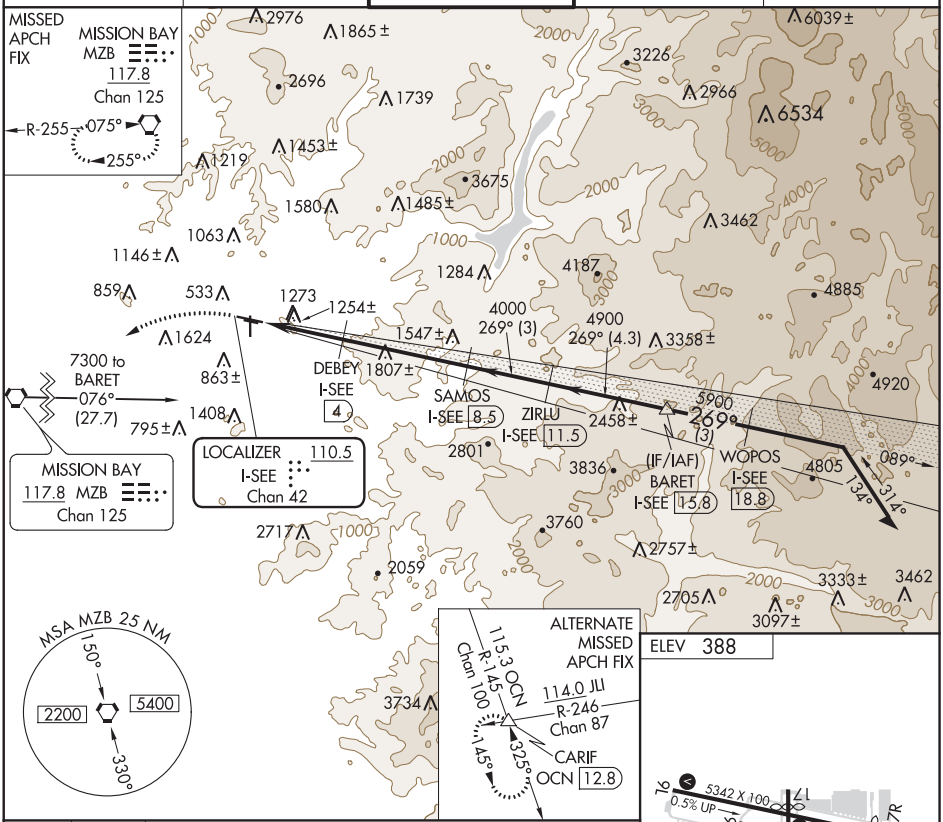
LOC-D
GILLESPIE FIELD (SEE)

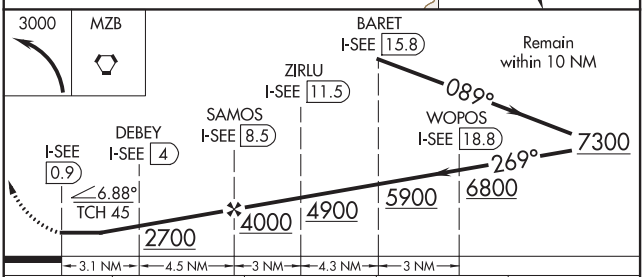
DME required.

When local altimeter setting not received, use Miramar MCAS altimeter setting and increase all MDA 40 feet. Circling NA northeast of Rwy 27R-17. Circling Rwy 27R, 35 NA at night.

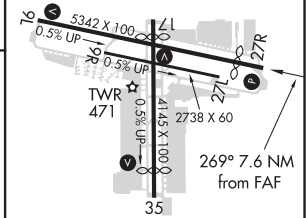
MISSED APPROACH: Climbing left turn to 3000 direct to MZB VORTAC and hold.

ATIS	SOCAL APP CON	GILLESPIE TOWER★	GND CON	CLNC DEL
125.45	124.35 279.625	120.7 (CTAF) L 257.8	121.7	125.1





ELEV 388



CATEGORY	A	B	C	D
C CIRCLING	1500-1¼ 1112 (1200-1¼)	1500-1½ 1112 (1200-1½)	1940-3 1552 (1600-3)	

MIRL Rwys 9L-27R and 17-35 L
REIL Rwy 27R L

SW-3, 05 NOV 2020 to 31 DEC 2020

SAN DIEGO/EL CAJON, CALIFORNIA
Amdt 11D 20JUN19
32°50'N-116°58'W
GILLESPIE FIELD (SEE)
LOC-D
391

20086

AIRPORT DIAGRAM

GILLESPIE FIELD (SEE)
SAN DIEGO/EL CAJON, CALIFORNIA

AL-5402 (FAA)

AIRPORT DIAGRAM

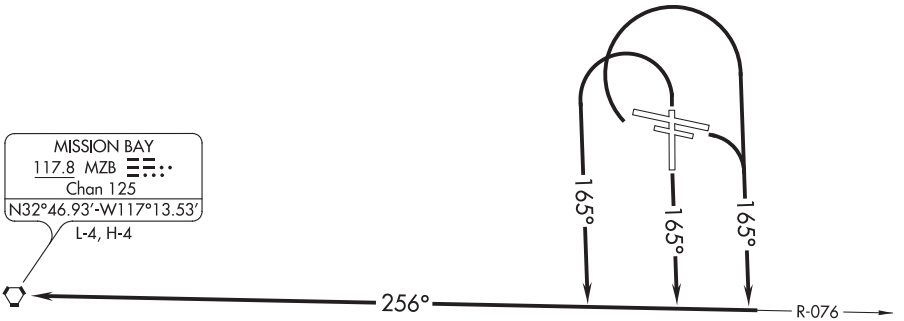
SAN DIEGO/EL CAJON, CALIFORNIA
GILLESPIE FIELD (SEE)

20086

SW-3, 05 NOV 2020 to 31 DEC 2020

MISSION BAY ONE DEPARTURE (OBSTACLE)

GILLESPIE TOWER ★
120.7 257.8
SOCAL DEP CON
124.35 279.625



TAKEOFF MINIMUMS

Rwy 9R: 900-2¾ with minimum climb of 405' per NM to 3600, or 4400-3 for VCOA.
Rwy 9L: 900-2¾ with minimum climb of 400' per NM to 3600, or 4400-3 for VCOA.
Rwy 17: Standard with minimum climb gradient of 480' per NM to 2200, or 4400-3 for VCOA.
Rwy 27L: Standard with minimum climb gradient of 600' per NM to 2200, or 4400-3 for VCOA.
Rwy 27R: Standard with minimum climb gradient of 645' per NM to 2200, or 4400-3 for VCOA.
Rwy 35: Standard with minimum climb gradient of 440' per NM to 2000, or 4400-3 for VCOA.

(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 9L/R, 27L/R: Climbing right turn on heading 165°. Thence. . . .
TAKEOFF RUNWAY 17: Climb on heading 165°. Thence. . . .
TAKEOFF RUNWAY 35: Climbing left turn on heading 165°. Thence. . . .

. . . .on MZB R-076 to MZB VORTAC.

ALL RUNWAYS: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Gillespie Field Airport at or above 4600 before proceeding on assigned route of flight.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

TAKEOFF OBSTACLE NOTES

Rwy 9L: Rising terrain beginning 11′ from DER, 202′ left of centerline, up to 398′ MSL.
Vehicle on road beginning 604′ from DER, 3′ right of centerline, up to 17′ AGL/450′ MSL.
Sign 739′ from DER, 442′ right of centerline, 40′ AGL/448′ MSL.
Bridge 784′ from DER, on centerline, 10′ AGL/408′ MSL.
Building 916′ from DER, 355′ left of centerline, 40′ AGL/448′ MSL.
Trees beginning 940′ from DER, 28′ left of centerline, up to 100′ AGL/557′ MSL.
Poles beginning 1101′ from DER, 153′ right of centerline, 40′ AGL/455′ MSL.
Poles beginning 1173′ from DER, 314′ left of centerline, up to 42′ AGL/462′ MSL.
Trees beginning 1259′ from DER, 66′ right of centerline, up to 100′ AGL/628′ MSL.
Building 1418′ from DER, 421′ left of centerline, 40′ AGL/451′ MSL.

Rwy 9R: Poles beginning 921′ from DER, 68′ right of centerline, up to 50′ AGL/422′ MSL.
Vehicle on road beginning 1544′ from DER, 404′ left of centerline, up to 17′ AGL/450′ MSL.
Sign 1679′ from DER, 25′ right of centerline, 40′ AGL/448′ MSL.
Buildings beginning 1855′ from DER, 772′ left of centerline, up to 40′ AGL/450′ MSL.
Trees beginning 1879′ from DER, 65′ left of centerline, up to 100′ AGL/691′ MSL.
Poles beginning 2112′ from DER, 263′ left of centerline, up to 42′ AGL/462′ MSL.
Trees beginning 2490′ from DER, 258′ right of centerline, up to 100′ AGL/505′ MSL.

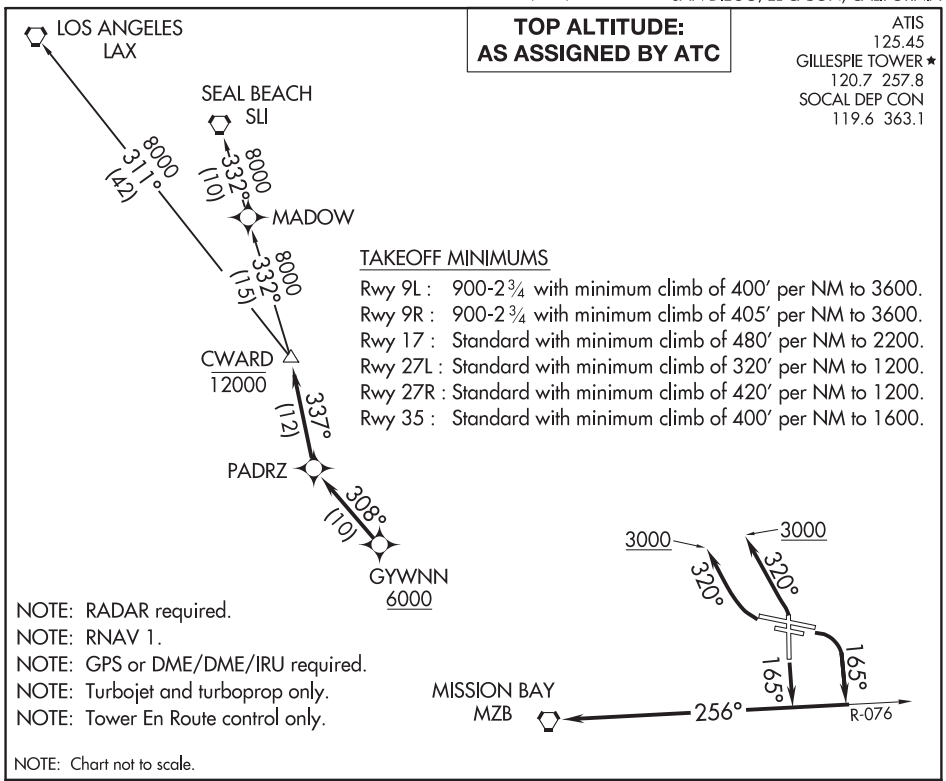
Rwy 17: Fence 14′ from DER, 42′ right of centerline, 10′ AGL/393′ MSL.
Poles beginning 50′ from DER, 33′ right of centerline, up to 40′ AGL/428′ MSL.
Buildings beginning 240′ from DER, 290′ right of centerline, up to 70′ AGL/463′ MSL.
Poles beginning 266′ from DER, 150′ left of centerline, up to 40′ AGL/440′ MSL.
Antenna on hangar 282′ from DER, 325′ left of centerline, 40′ AGL/421′ MSL.
Trees beginning 390′ from DER, 377′ right of centerline, up to 100′ AGL/473′ MSL.
Buildings beginning 670′ from DER, 57′ left of centerline, 40′ AGL/429′ MSL.
Trees beginning 1068′ from DER, 54′ left of centerline, up to 100′ AGL/472′ MSL.

Rwy 27L: Aircraft on taxiway 9′ from DER, 195′ left of centerline, 15′ AGL/384′ MSL.
Trees beginning 1548′ from DER, 700′ right of centerline, up to 100′ AGL/470′ MSL.

Rwy 27R: Trees beginning 179′ from DER, 54′ right of centerline, up to 100′ AGL/453′ MSL.
Poles beginning 316′ from DER, 161′ right of centerline, 40′ AGL/390′ MSL.
Railroad 511′ from DER, 412′ left of centerline, 23′ AGL/379′ MSL.
Obstruction light on RR signal 799′ from DER, 83′ left of centerline, 30′ AGL/390′ MSL.
Trees beginning 2069′ from DER, 71′ left of centerline, up to 100′ AGL/470′ MSL.
Pole 2142′ from DER, 95′ left of centerline, 30′ AGL/420′ MSL.

Rwy 35: Poles beginning 50′ from DER, 29′ right of centerline, up to 50′ AGL/431′ MSL.
Buildings beginning 61′ from DER, 134′ right of centerline, up to 10′ AGL/388′ MSL.
Trees beginning 179′ from DER, 67′ right of centerline, up to 100′ AGL/447′ MSL.
Pole 593′ from DER, 336′ left of centerline, 35′ AGL/396′ MSL.
Trees beginning 670′ from DER, 118′ left of centerline, up to 100′ AGL/439′ MSL.

SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 9L/R: Climbing right turn heading 165° and on MZB R-076 to MZB VORTAC to 3000, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

TAKEOFF RUNWAY 17: Climb heading 165° and MZB R-076 to MZB VORTAC to 2800, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

TAKEOFF RUNWAYS 27L/R: Climbing right turn heading 320° to 3000, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

TAKEOFF RUNWAY 35: Climbing left turn heading 320° to 3000, expect vectors to cross GYWNN at or above 6000, then on track 308° to PADRZ, then on track 337° to cross CWARD at or below 12000, thence. . . .

. . . .on transition. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

LOS ANGELES TRANSITION (CWARD2.LAX)
SEAL BEACH TRANSITION (CWARD2.SLI)

(PADRZ2.PADRZ) 17341

PADRZ TWO DEPARTURE (RNAV)

AL-5402 (FAA)

GILLESPIE FIELD (SEE)
SAN DIEGO/EL CAJON, CALIFORNIA

ATIS
125.45
GILLESPIE TOWER★
120.7 257.8
SOCAL DEP CON
119.6 363.1

TOP ALTITUDE: 15000

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 9L/9R: Climbing right turn heading 165° and on MZB R-076 to MZB VORTAC to 3000, expect vectors to cross GYWNN at or above, 8000, then on track 308° to PADRZ, thence. . . .

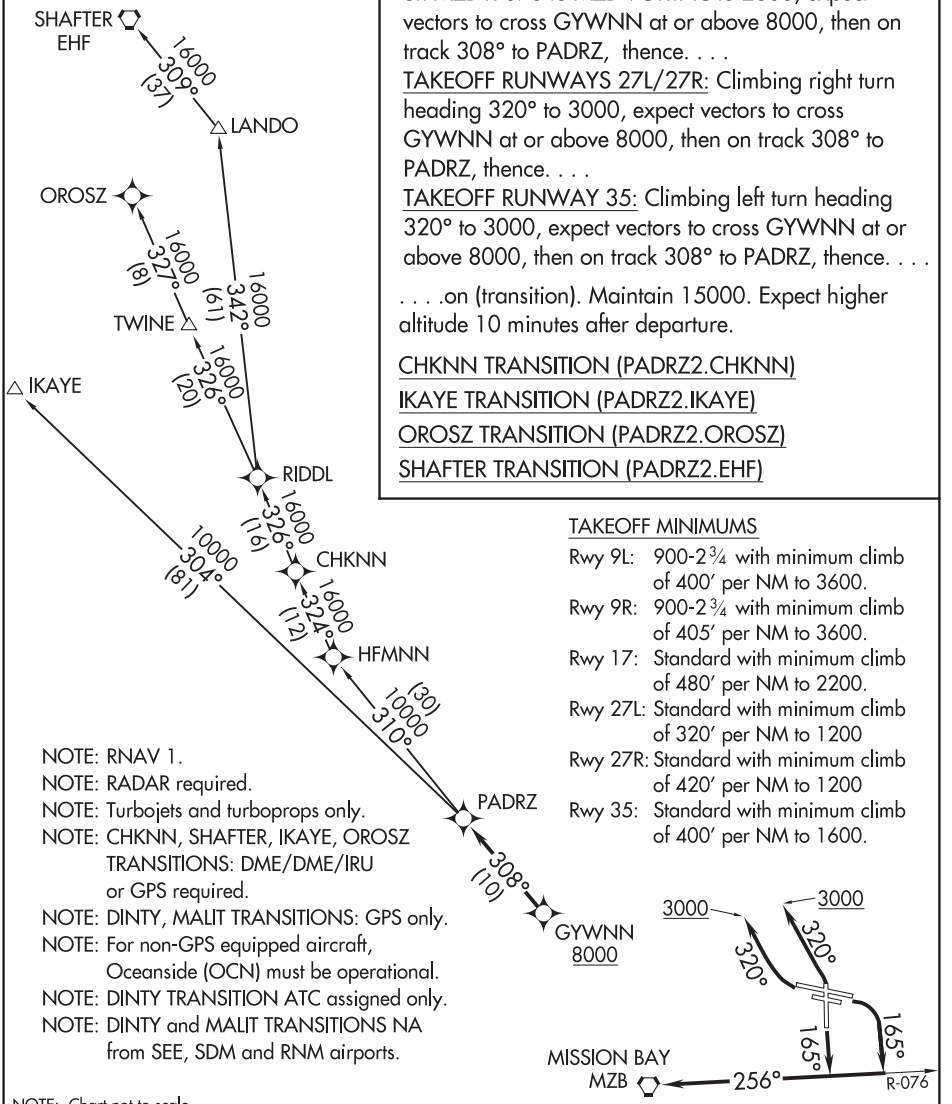
TAKEOFF RUNWAY 17: Climb heading 165° and on MZB R-076 to MZB VORTAC to 2800, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

TAKEOFF RUNWAYS 27L/27R: Climbing right turn heading 320° to 3000, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

TAKEOFF RUNWAY 35: Climbing left turn heading 320° to 3000, expect vectors to cross GYWNN at or above 8000, then on track 308° to PADRZ, thence. . . .

. . . .on (transition). Maintain 15000. Expect higher altitude 10 minutes after departure.

CHKNN TRANSITION (PADRZ2.CHKNN)
IKAYE TRANSITION (PADRZ2.IKAYE)
OROSZ TRANSITION (PADRZ2.OROSZ)
SHAFTER TRANSITION (PADRZ2.EHF)



TAKEOFF MINIMUMS

Rwy 9L: 900-2¾ with minimum climb of 400′ per NM to 3600.
Rwy 9R: 900-2¾ with minimum climb of 405′ per NM to 3600.
Rwy 17: Standard with minimum climb of 480′ per NM to 2200.
Rwy 27L: Standard with minimum climb of 320′ per NM to 1200
Rwy 27R: Standard with minimum climb of 420′ per NM to 1200
Rwy 35: Standard with minimum climb of 400′ per NM to 1600.

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: Turbojets and turboprops only.
NOTE: CHKNN, SHAFTER, IKAYE, OROSZ TRANSITIONS: DME/DME/IRU or GPS required.
NOTE: DINTY, MALIT TRANSITIONS: GPS only.
NOTE: For non-GPS equipped aircraft, Oceanside (OCN) must be operational.
NOTE: DINTY TRANSITION ATC assigned only.
NOTE: DINTY and MALIT TRANSITIONS NA from SEE, SDM and RNM airports.

NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

LOC I-SBP	APP CRS	Rwy Idg	5300
109.7	110°	TDZE	198
		Apt Elev	212

ILS RWY 11

SAN LUIS COUNTY RGNL (SBP)

T A

MALSR

MISSED APPROACH: Climb to 900 then climbing right turn to 3300 on heading 175° and on MQO VORTAC R-126 to MQO VORTAC and hold, continue climb-in-hold to 3300.

ATIS	SANTA BARBARA APP CON★	SAN LUIS TOWER★	GND CON	UNICOM
120.6	127.725 244.575	124.0 (CTAF) L 379.9	121.6	122.95

PASO ROBLES 114.3 PRB Chan 90

4000 NoPT 196° (2.2)

4000 NoPT to CREPE 048° hdg (2.2) and 110° (2.1)

(CFFFC)

(IAF) FRAMS MQO 11.2

(IF/IAF) CREPE MQO 8.5

(IAF) OXUNE PRB 19.7

2400 to GS INTCP

DOBRA OM

MORRO BAY 112.4 MQO Chan 71

LOCALIZER 109.7 I-SBP

MSA MQO 25 NM

4700 3100 5300 3700

When GS not used, use LOC RWY 11 procedure.

ELEV 212 D TDZE 198

110° 6.1 NM from OM

TWR 271

REIL Rwy 29 L

HIRL Rwy 11-29 L

One Minute Holding Pattern

CREPE INT MQO 8.5

900	3300	MQO	MQO
	hdg 175°	R-126	

4000 ←290° 110°→ 110° 2400

DOBRA OM 2186

GS 3.00° TCH 49

6.9 NM 6.1 NM

CATEGORY	A	B	C	D
S-ILS 11	398-½	200 (200-½)		

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SAN LUIS OBISPO, CALIFORNIA

AL-989 (FAA)

20030

RNAV (GPS) RWY 11

SAN LUIS COUNTY RGNL (SBP)

WAAS	APP CRS	Rwy Idg	5300
CH 50328	110°	TDZE	198
W11A		Apt Elev	212

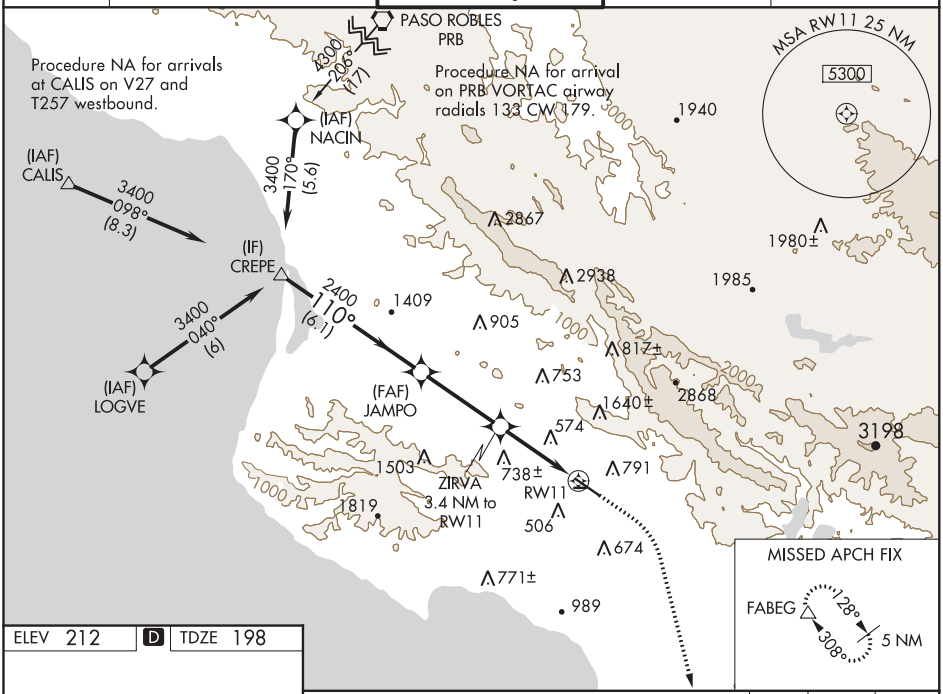
RNP APCH.

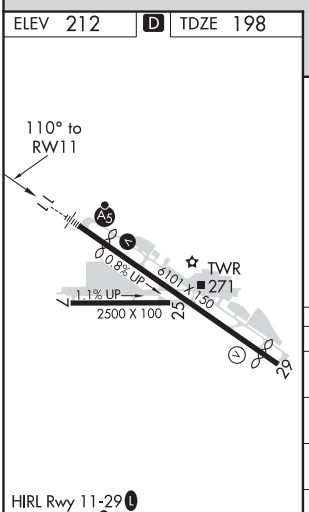
T A Circling NA north of Rwy 11-29. Circling Rwy 25 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to 2 SM.

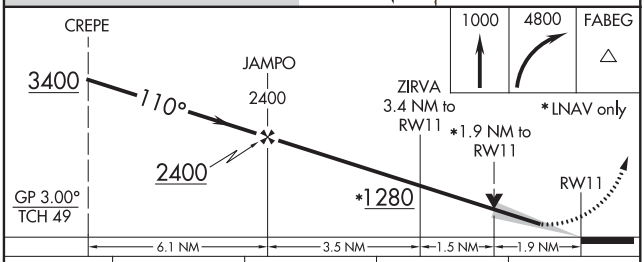
MALSR A5

MISSED APPROACH: Climb to 1000 then climbing right turn to 4800 direct FABEG and hold, continue climb-in-hold to 4800.

ATIS	SANTA BARBARA APP CON★	SAN LUIS TOWER★	GND CON	UNICOM
120.6	127.725 244.575	124.0 (CTAF) L 379.9	121.6	122.95







CATEGORY	A	B	C	D
LPV DA	398-½	200 (200-½)		
LNAV/VNAV DA	946-1¾	748 (800-1¾)		
LNAV MDA	840-½	642 (700-½)	840-1⅜	642 (700-1⅜)
C CIRCLING	840-1 628 (700-1)	1220-1½ 1008 (1100-1½)	1460-3 1248 (1300-3)	1560-3 1348 (1400-3)

HIRL Rwy 11-29 L
REIL Rwy 29 L

SAN LUIS OBISPO, CALIFORNIA
Amdt 2 30JAN20

35°14′N-120°39′W

SAN LUIS COUNTY RGNL (SBP)
RNAV (GPS) RWY 11

SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 29
SAN LUIS COUNTY RGNL (SBP)

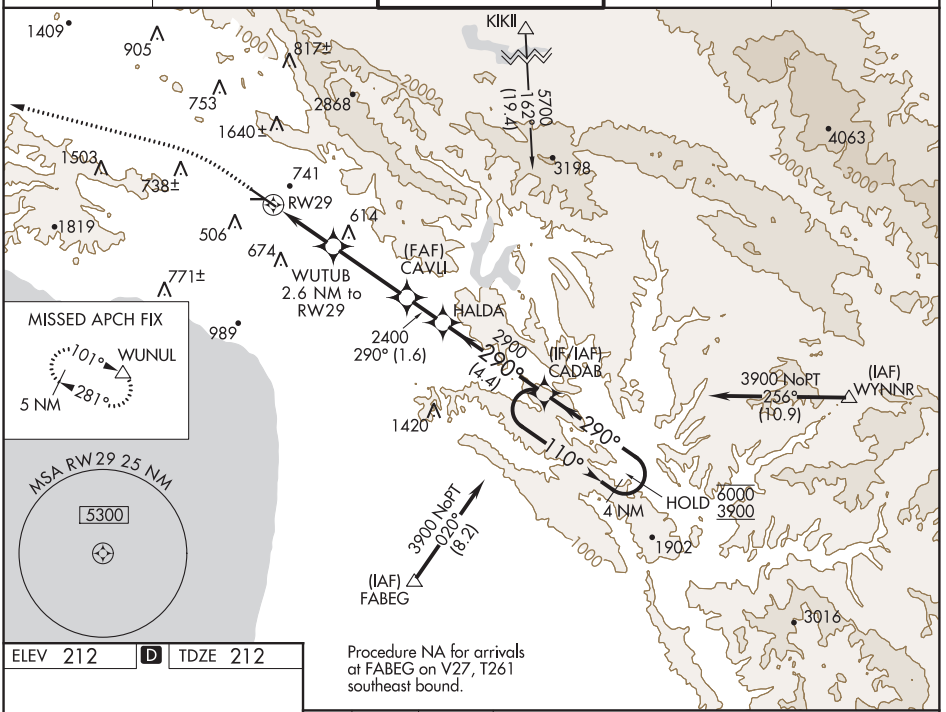
WAAS	APP CRS	Rwy Idg	5600
CH 53443	290°	TDZE	212
W29A		Apt Elev	212

RNP APCH.

T Circling to Rwy 25 NA at night. Circling NA north of Rwy 11-29.
A Rwy 29 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0° C or above 52° C.

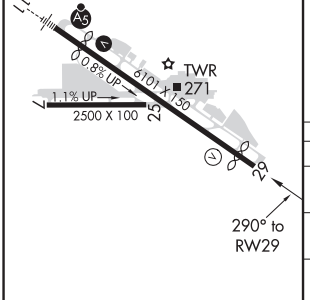
MISSED APPROACH: Climb to 1100 then climbing left turn to 4100 direct WUNUL and hold, continue climb-in-hold to 4100.

ATIS	SANTA BARBARA APP CON*	SAN LUIS TOWER*	GND CON	UNICOM
120.6	127.725 244.575	124.0 (CTAF) L 379.9	121.6	122.95

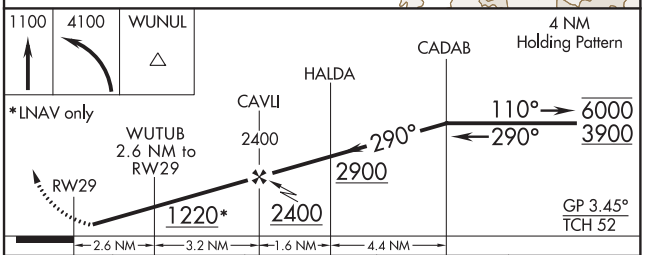


Procedure NA for arrivals at FABEG on V27, T261 southeast bound.

ELEV 212 | D | TDZE 212



HIRL Rwy 11-29 L
REIL Rwy 29 L



CATEGORY	A	B	C	D
LPV DA	831-1¾ 619 (700-1¾)			
LNAV/VNAV DA	835-1¾ 623 (700-1¾)			
LNAV MDA	1000-1 788 (800-1)	1000-1¼ 788 (800-1¼)	1000-2½ 788 (800-2½)	
C CIRCLING	1000-1 788 (800-1)	1220-1½ 1008 (1100-1½)	1460-3 1248 (1300-3)	1560-3 1348 (1400-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN LUIS OBISPO, CALIFORNIA

AL-989 (FAA)

19227

LOC RWY 11

SAN LUIS COUNTY RGNL (SBP)

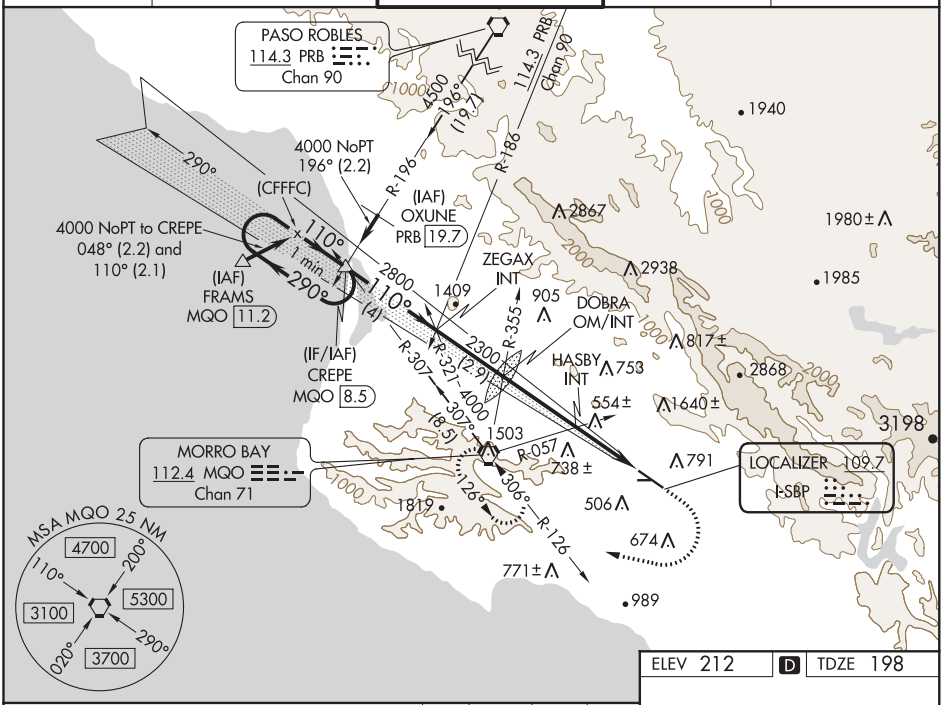
LOC I-SBP	APP CRS	Rwy Idg	5300
109.7	110°	TDZE	198
		Apt Elev	212

T A — Circling NA north of Rwy 11-29.

MALSR (A5)

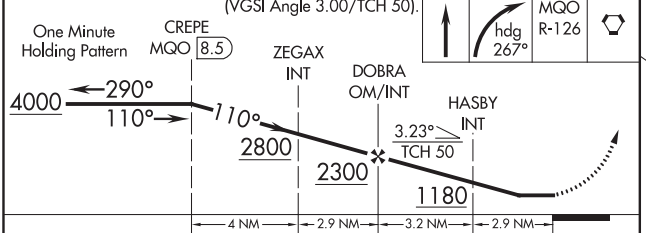
MISSED APPROACH: Climb to 1200 then climbing right turn to 3300 on heading 267° and on MQO VORTAC R-126 to MQO VORTAC and hold.

ATIS	SANTA BARBARA APP CON★	SAN LUIS TOWER★	GND CON	UNICOM
120.6	127.725 244.575	124.0 (CTAF) L 379.9	121.6	122.95



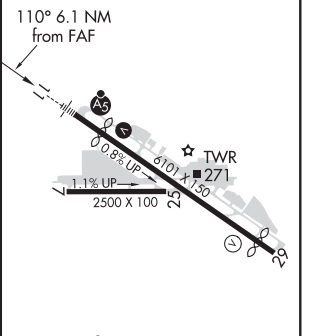
VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 50).

1200	3300	MQO	MQO
	hdg 267°	R-126	



CATEGORY	A	B	C	D
S-11	1180-¾ 982 (1000-¾)	1180-1 982 (1000-1)	1180-2½ 982 (1000-2½)	
CIRCLING	1180-1¼ 968 (1000-1¼)	1180-1½ 968 (1000-1½)	1180-3 968 (1000-3)	1240-3 1028 (1100-3)
HASBY INT MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-11	760-½ 562 (600-½)		760-1¼ 562 (600-1¼)	
CIRCLING	840-1 628 (700-1)	960-1 748 (800-1)	1160-2¾ 948 (1000-2¾)	1240-3 1028 (1100-3)

ELEV 212 D TDZE 198



REIL Rwy 29 L
HIRL Rwy 11-29 L

FAF to MAP 6.1 NM					
Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

SAN LUIS OBISPO, CALIFORNIA

Orig-B 29MAY14

35°14′N-120°39′W

SAN LUIS COUNTY RGNL (SBP)

LOC RWY 11

SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC MQO 112.4 Chan 71	APP CRS 084°	Rwy Idg N/A TDZE N/A Apt Elev 209

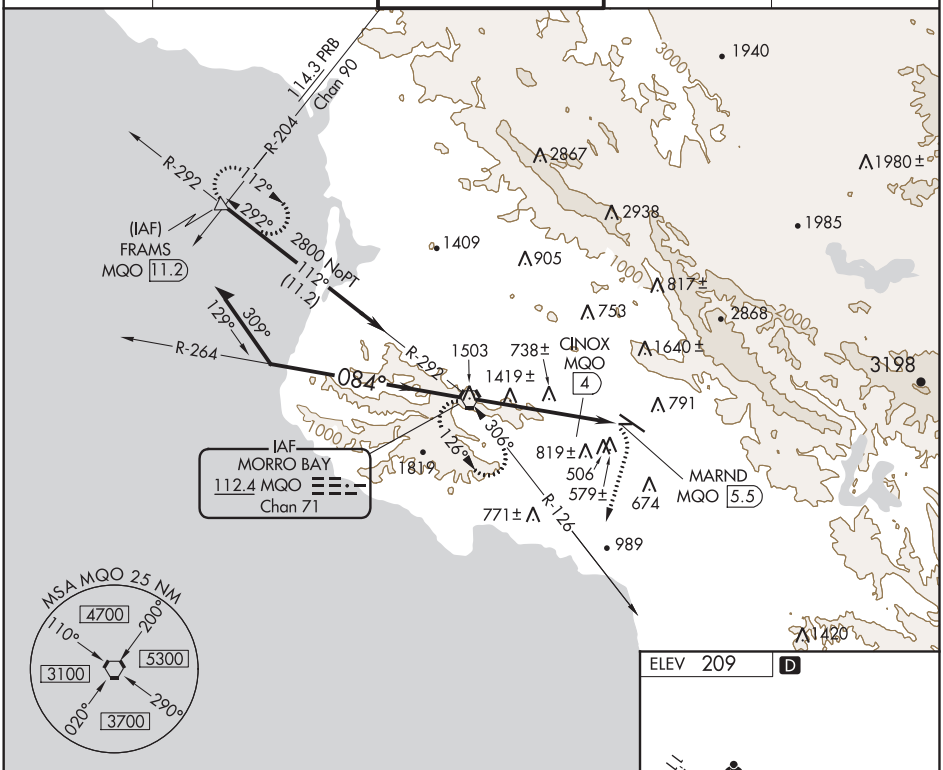
VOR or TACAN-A

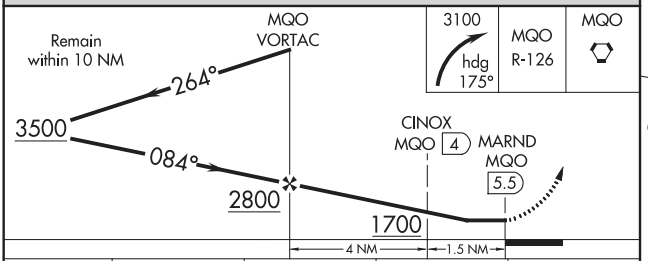
SAN LUIS COUNTY RGNL (SBP)

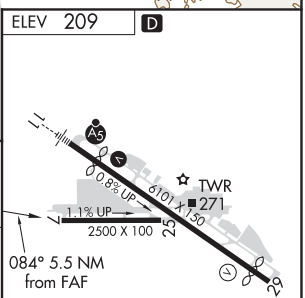
T A Circling NA north of Rwy 11-29.

MISSED APPROACH: Climbing right turn to 3100 via heading 175° and MQO R-126 to MQO VORTAC and hold. (TACAN Aircraft continue climb to 4000 via MQO R-292 to FRAMS 11.2 DME and hold east, right turns, 292° inbound.)

ATIS	SANTA BARBARA APP CON ★	SAN LUIS TOWER ★	GND CON	UNICOM
120.6	127.725 244.575	124.0 (CTAF) L 379.9	121.6	122.95







CATEGORY	A	B	C	D
CIRCLING	1700-1¼ 1491 (1500-1¼)	1700-1½ 1491 (1500-1½)	1700-3 1491 (1500-3)	
TACAN OR DME MINIMA				
CIRCLING	1120-1¼ 911 (1000-1¼)		1160-2¾ 951 (1000-2¾)	1280-3 1071 (1100-3)

HIRL Rwy 11-29 L
REIL Rwy 29 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

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20142

AIRPORT DIAGRAM

AL-989 (FAA)

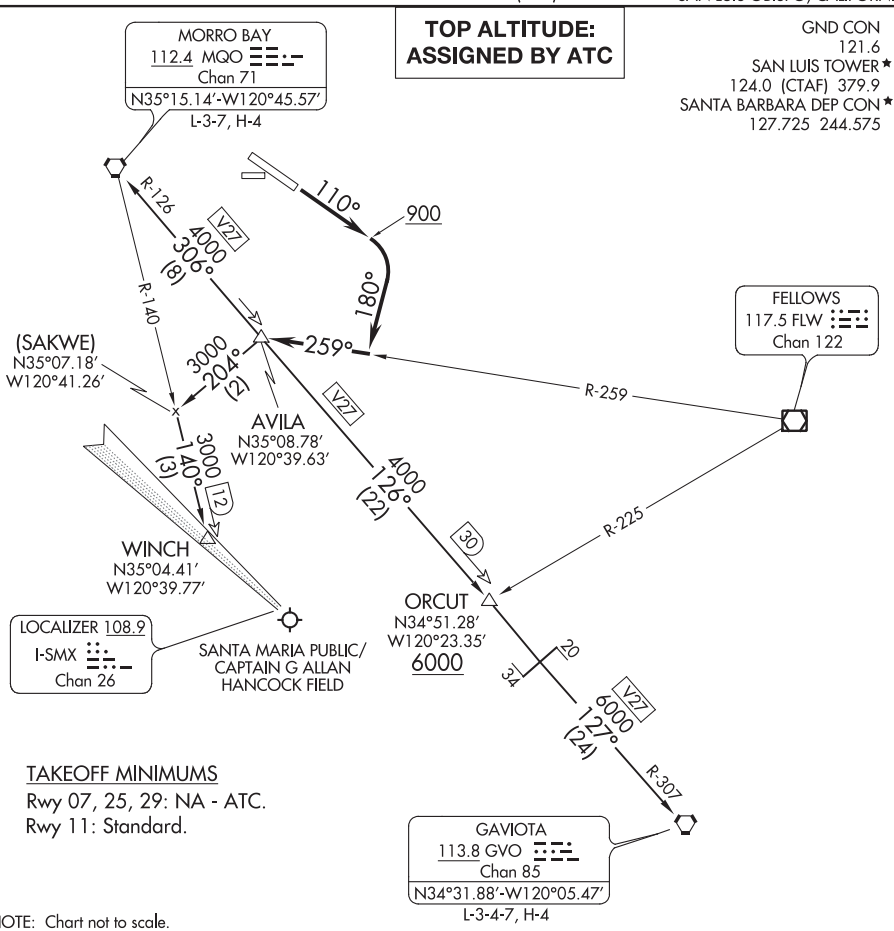
SAN LUIS COUNTY RGNL (SBP)
SAN LUIS OBISPO, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20142
SAN LUIS OBISPO, CALIFORNIA
SAN LUIS COUNTY RGNL (SBP)

AVILA FOUR DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb on heading 110° to 900, then climbing right turn heading 180° to intercept the FLW VOR/DME R-259 to AVILA INT, then on assigned transition or assigned route. Maintain ATC assigned altitude.

GAVIOTA TRANSITION (AVILA4.GVO): From over AVILA on MQO R-126 to ORCUT , then on MQO R-126 and GVO R-307 to GVO VORTAC.

MORRO BAY TRANSITION (AVILA4.MQO): From over AVILA on MQO R-126 to MQO VORTAC.

WINCH TRANSITION (AVILA4.WINCH): From over AVILA on heading 204° to SAKWE, then on MQO R-140 to WINCH.

AVILA FOUR DEPARTURE

SW-3, 05 NOV 2020 to 31 DEC 2020

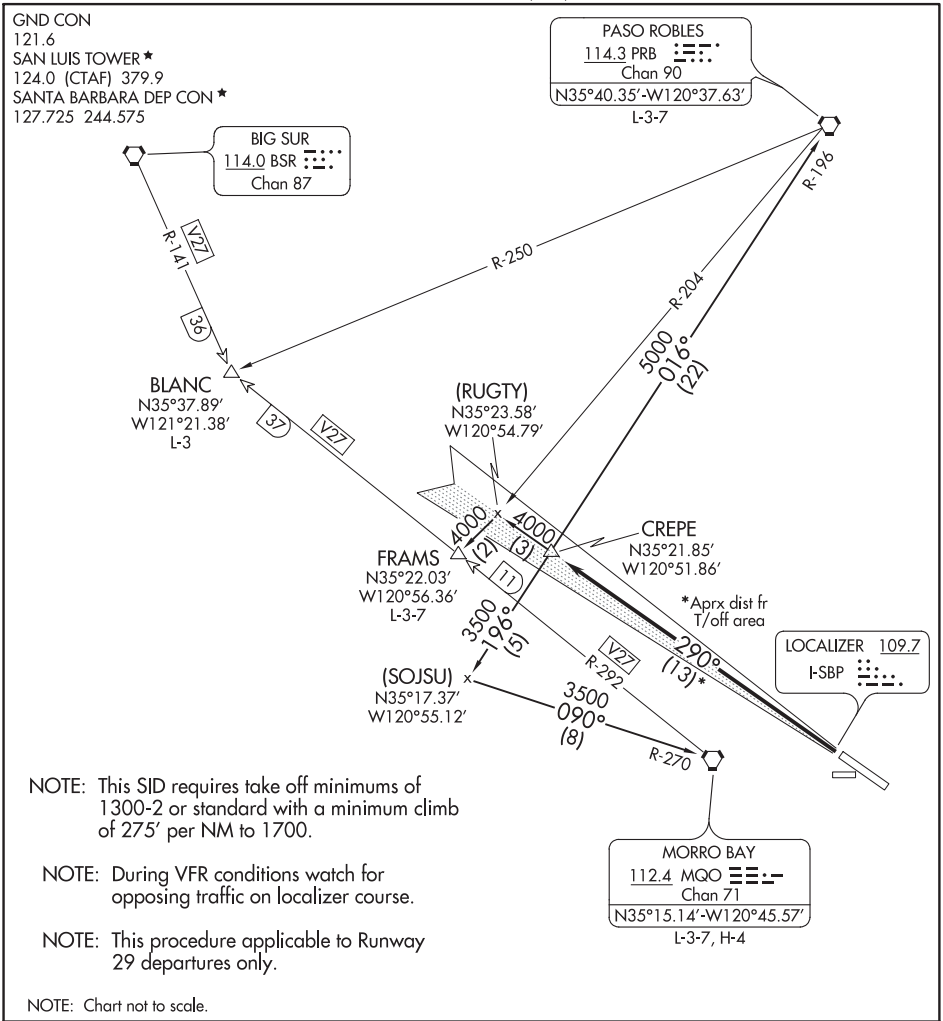
SW-3, 05 NOV 2020 to 31 DEC 2020

(CREPE3.CREPE) 16091

CREPE THREE DEPARTURE

SL-989 (FAA)

SAN LUIS COUNTY RGNL (SBP)
SAN LUIS OBISPO, CALIFORNIA



NOTE: This SID requires take off minimums of 1300-2 or standard with a minimum climb of 275' per NM to 1700.

NOTE: During VFR conditions watch for opposing traffic on localizer course.

NOTE: This procedure applicable to Runway 29 departures only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

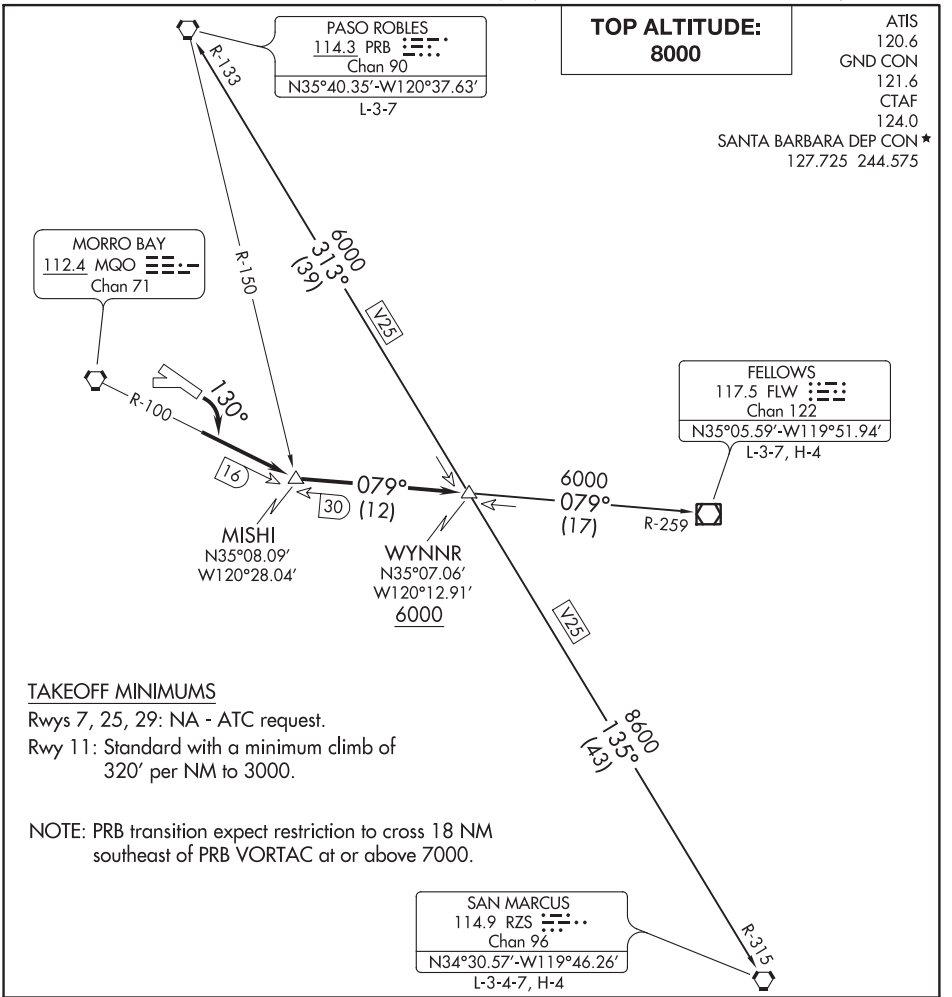
TAKEOFF RUNWAY 29: Climb via San Luis Obispo localizer I-SBP west course to CREPE INT; thence via (transition) or (assigned route).

FRAMS TRANSITION (CREPE3.FRAMS): From over CREPE INT via I-SBP LOC west course and PRB R-204 to FRAMS INT.

MORRO BAY TRANSITION (CREPE3.MQO): From over CREPE INT via PRB R-196 and MQO R-270 to MQO VORTAC.

PASO ROBLES TRANSITION (CREPE3.PRB): From over CREPE INT via PRB R-196 to PRB VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020



TAKEOFF MINIMUMS

Rwys 7, 25, 29: NA - ATC request.

Rwy 11: Standard with a minimum climb of 320′ per NM to 3000.

NOTE: PRB transition expect restriction to cross 18 NM southeast of PRB VORTAC at or above 7000.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Turn right heading 130° to intercept and proceed on MQO R-100 to MISHI INT, then on FLW R-259 to WYNNR INT; thence on (transition) or (assigned route.)

FELLOWS TRANSITION (WYNNR4.FLW): From over WYNNR INT on FLW R-259 to FLW VOR/DME.

PASO ROBLES TRANSITION (WYNNR4.PRB): From over WYNNR INT on PRB R-133 to PRB VORTAC.

SAN MARCUS TRANSITION (WYNNR4.RZS): From over WYNNR INT on RZS R-315 to RZS VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SAN NICOLAS ISLAND, CALIFORNIA

ILS Y or LOC/DME RWY 30

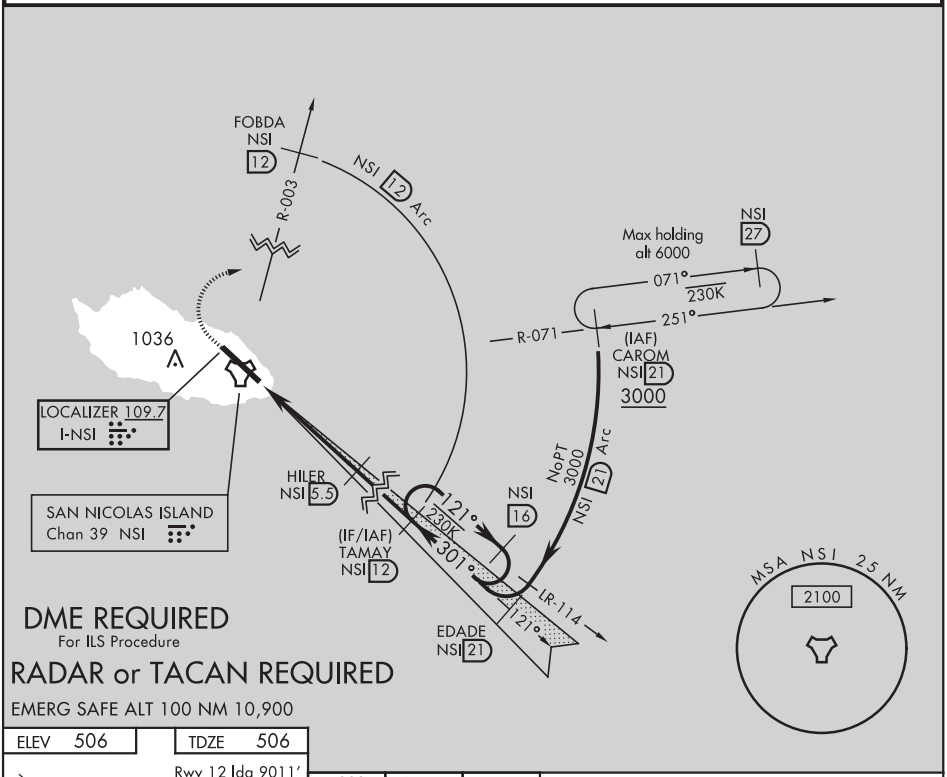
LOC I-NSI	APCH CRS	Rwy ldg 10,002
109.7	301°	TDZE 506
		Arpt Elev 506

AL-5162 [USN] SAN NICOLAS ISLAND NOLF (KNSI)

*Circling not authorized W of Rwy 12-30.

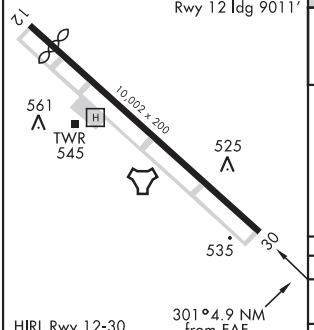
MISSED APPROACH: Climb to 1000 via heading 301°, then climbing right turn to 3000 to intercept NSI TACAN R-003 to FOBDA, then arc E of NSI 12 mile arc to TAMAY and hold.

SAN NICOLAS TOWER ★
126.85 379.3

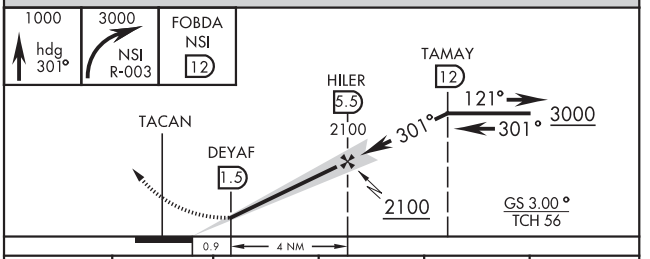


ELEV 506	TDZE 506

Rwy 12 ldg 9011'



FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20



CATEGORY	A	B	C	D	E
S-ILS 30	706-¾		200	(200-¾)	
S-LOC 30	780-1		274	(300-1)	
CIRCLING*	860-1 354 (400-1)	960-1 454 (500-1)	960-1½ 454 (500-1½)	1060-2	554 (600-2)

SAN NICOLAS ISLAND, CALIFORNIA 33°14'N-119°27'W SAN NICOLAS ISLAND NOLF (KNSI)

Amdt 4 03JAN19

ILS Y or LOC/DME RWY 30

SW-3, 05 NOV 2020 to 31 DEC 2020

SAN NICOLAS ISLAND, CALIFORNIA

ILS Z or RNAV (GPS) RWY 30

AL-5162 [USN] SAN NICOLAS ISLAND NOLF (KNSI)

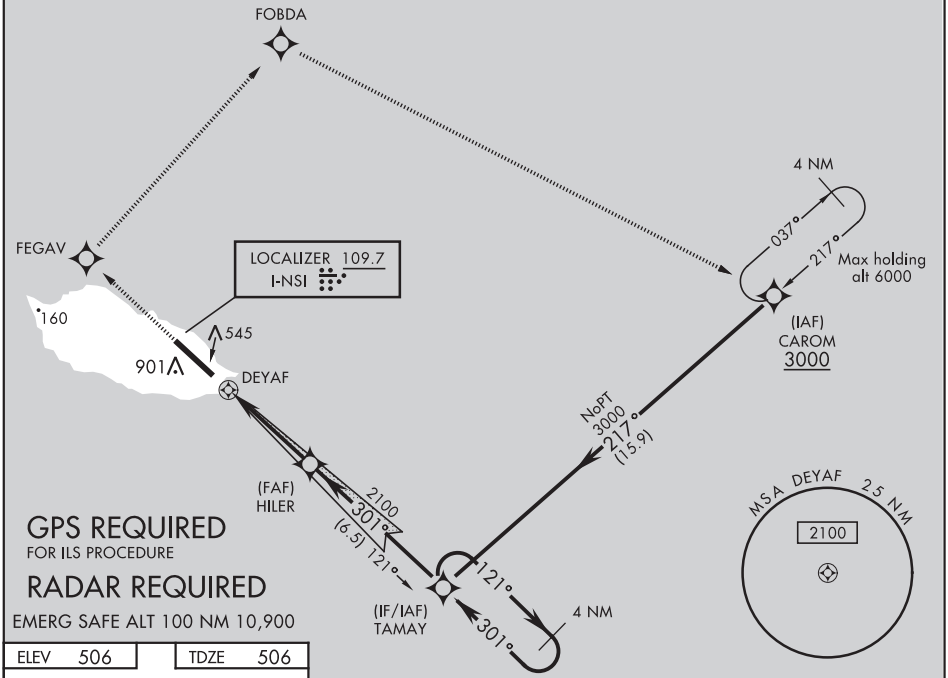
LOC I-NSI	APCH CRS	Rwy ldg 10,002
109.7	301°	TDZE 506
		Arpt Elev 506

* Circling not authorized W of Rwy 12-30.

†MISSED APPROACH: Climb to 3000 direct FEGAV, track 030° to FOBDA, track 105° to CAROM and hold.

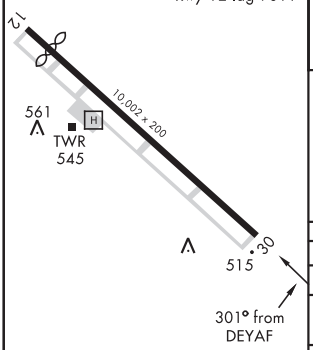
SAN NICOLAS TOWER ★
126.85 379.3

† All acft are restricted to 250 KIAS or less until FEGAV during the missed approach procedure.

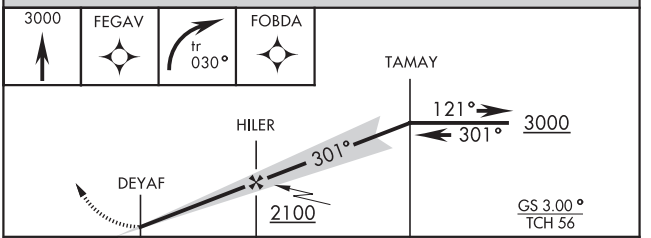


ELEV 506 | TDZE 506

Rwy 12 ldg 9011′



HIRL Rwy 12-30



CATEGORY	A	B	C	D	E
S-ILS 30	706-¾		200	(200-¾)	
LNAV MDA	920-1 414 (500-1)		920-1⅛	414	(500-1⅛)
CIRCLING *	920-1 414 (500-1)	960-1 454 (500-1)	960-1½ 454 (500-1½)	1060-2 554 (600-2)	

SAN NICOLAS ISLAND, CALIFORNIA 33°14′N-119°27′W SAN NICOLAS ISLAND NOLF (KNSI)

Amdt 4 03JAN19

ILS Z or RNAV (GPS) RWY 30

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SAN NICOLAS ISLAND, CALIFORNIA

TACAN RWY 30

TACAN	APCH CRS	Rwy ldg	10,002
Chan 39	292°	TDZE	506
		Arpt Elev	506

AL-5162 [USN]

SAN NICOLAS ISLAND NOLF (KNSI)

*Circling not authorized W of Rwy 12-30.

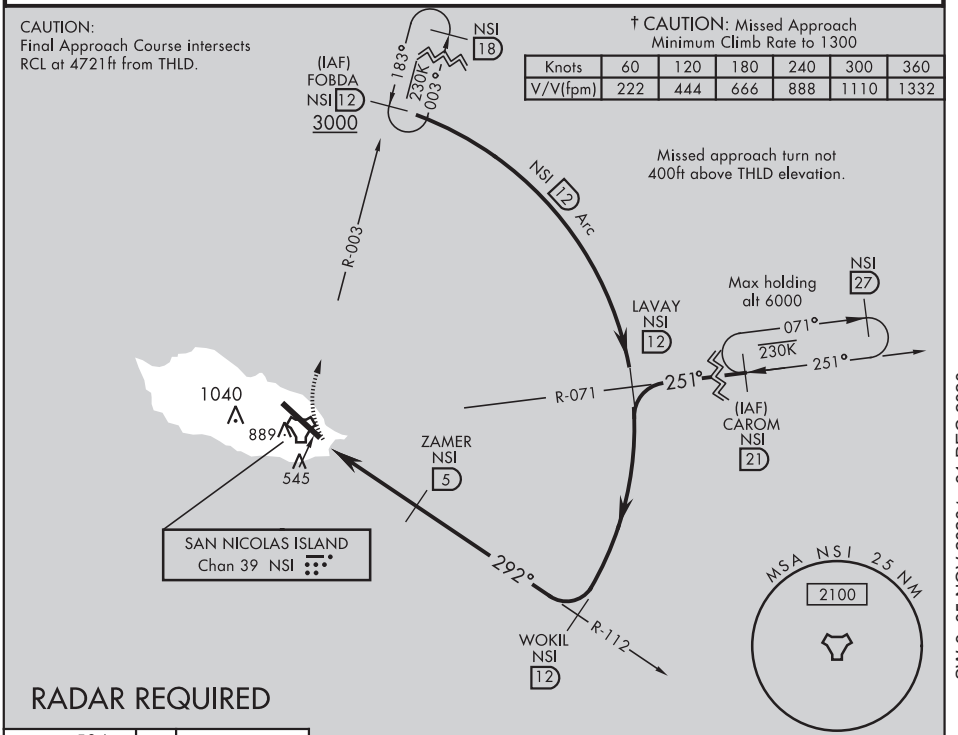
†MISSED APPROACH: Climbing right turn to 3000, intcp the NSI TACAN R-003 to FOBDA and hold.

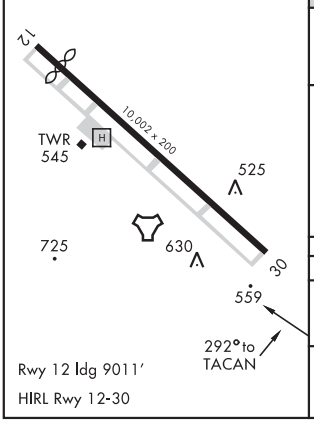
SAN NICOLAS TOWER ★
126.85 379.3

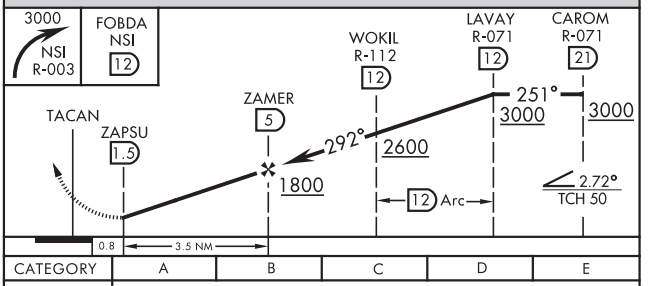
CAUTION:
Final Approach Course intersects RCL at 4721ft from THLD.

† CAUTION: Missed Approach Minimum Climb Rate to 1300

Knots	60	120	180	240	300	360
V/V(fpm)	222	444	666	888	1110	1332







CATEGORY	A	B	C	D	E
S-30	820-1 314 (400-1)				
CIRCLING*	860-1 354 (400-1)	960-1 454 (500-1)	960-1½ 454 (500-1½)	1060-2 554 (600-2)	

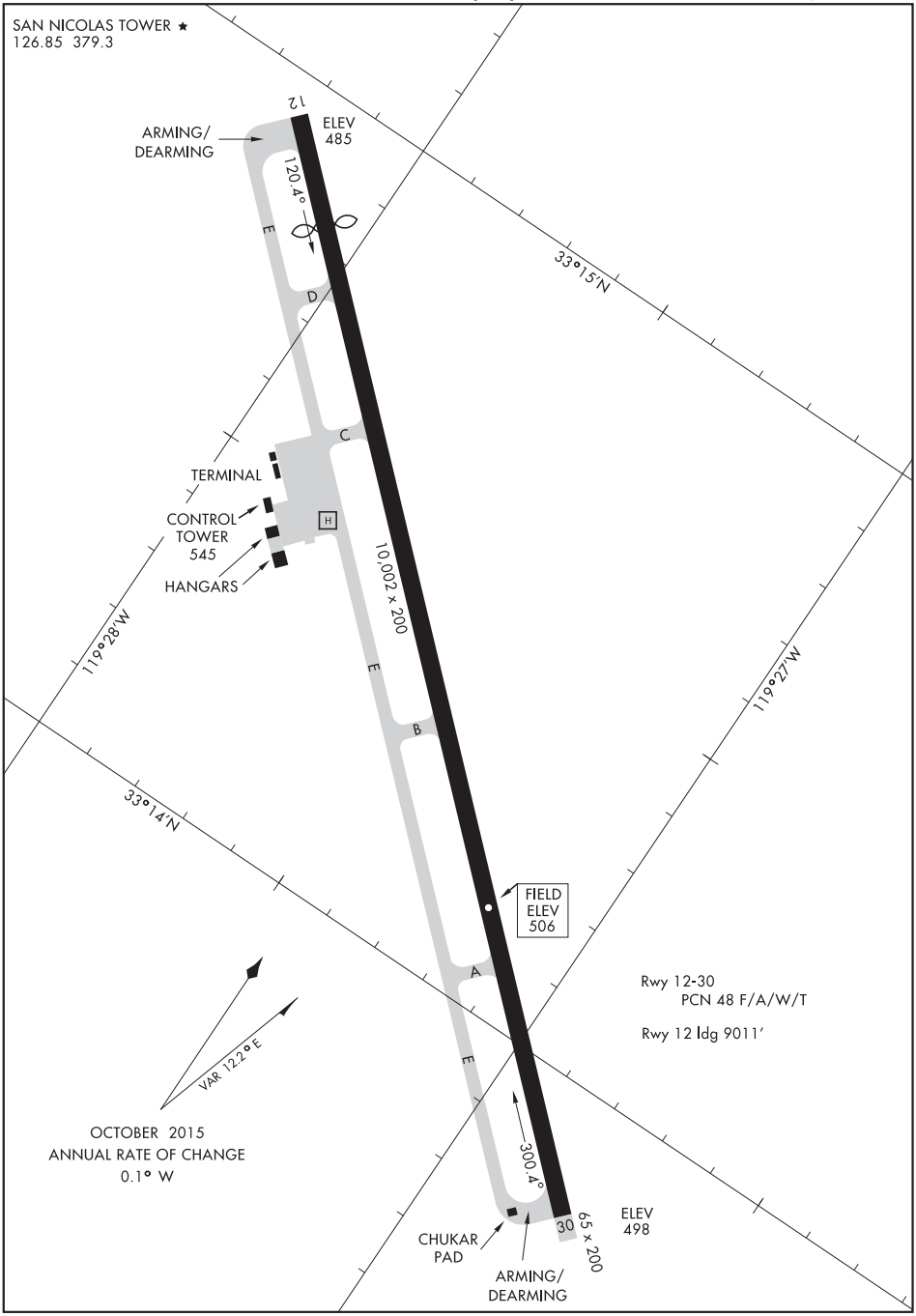
SAN NICOLAS ISLAND, CALIFORNIA 33°14'N-119°27'W SAN NICOLAS ISLAND NOLF (KNSI)

Amdt 4 03JAN19

TACAN RWY 30

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020

SANTA ANA, CALIFORNIA AL-377 (FAA) 19171

LOC/DME I-SNA	APP CRS	Rwy ldg 5701
111.75	196°	TDZE 55
Chan 54(Y)		Apt Elev 56

ILS or LOC RWY 20R

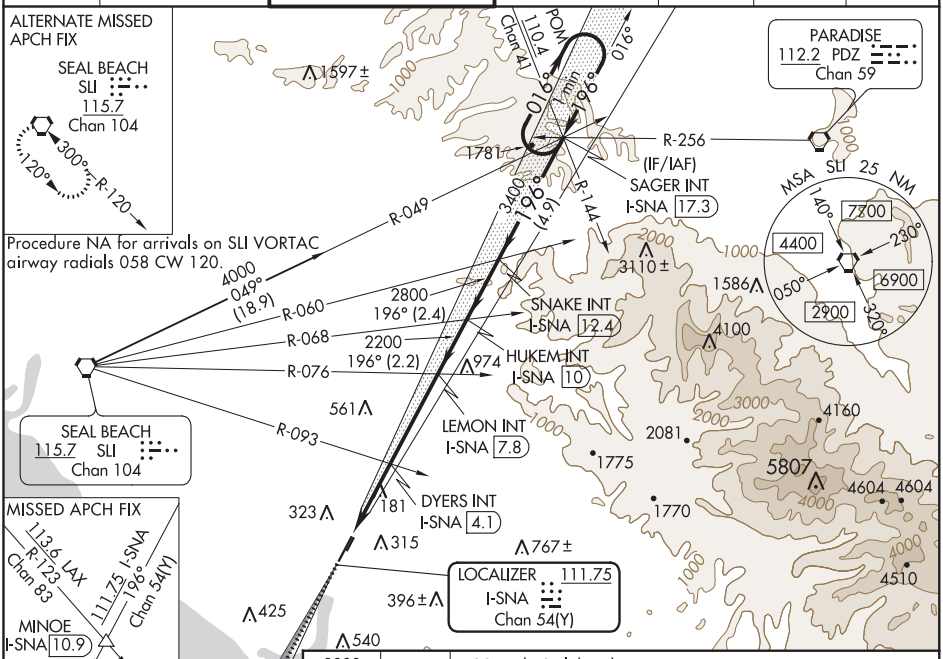
JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

T A * RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR A5

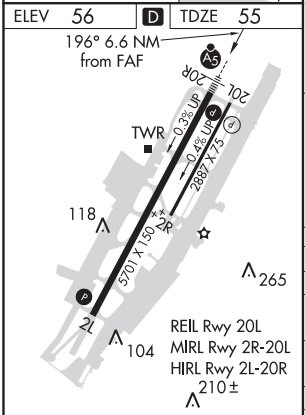
MISSED APPROACH: Climb to 3000 on I-SNA LOC south course (196°) to MINOE INT/I-SNA 10.9 DME.

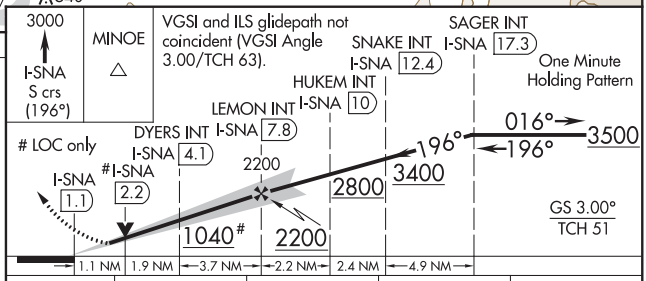
D-ATIS	SOCAL APP CON	JOHN WAYNE TOWER *	GND CON	CLNC DEL	CPDLC	UNICOM
126.0	121.3 263.1	126.8 (CTAF) L 343.625	(EAST) 120.8 (WEST) 132.25	118.0		122.95



SW-3, 05 NOV 2020 to 31 DEC 2020

ELEV 56 D TDZE 55





CATEGORY	A	B	C	D
S-ILS 20R*	255/24 200 (200-½)			
S-LOC 20R	1040/40 985 (1000-¾)	1040/55 985 (1000-1)	1040-2½ 985 (1000-2½)	
C CIRCLING	1040-1¼ 984 (1000-1¼)	1040-1½ 984 (1000-1½)	1040-3 984 (1000-3)	1160-3 1104 (1200-3)
DYERS FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)				
S-LOC 20R	440/24 385 (400-½)		440/35 385 (400-⅝)	
C CIRCLING	640-1 584 (600-1)		840-2¼ 784 (800-2¼)	1160-3 1104 (1200-3)

FAF to MAP 6.6 NM

Knots	60	90	120	150	180
Min:Sec	6:36	4:24	3:18	2:38	2:12

SANTA ANA, CALIFORNIA
Amdt 14 07DEC17

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)
33°41′N-117°52′W

ILS or LOC RWY 20R

LOC/DME I-SNA	APP CRS	Rwy ldg 5701
111.75	196°	TDZE 55
Chan 54(Y)		Apt Elev 56

ILS RWY 20R (SA CAT I)

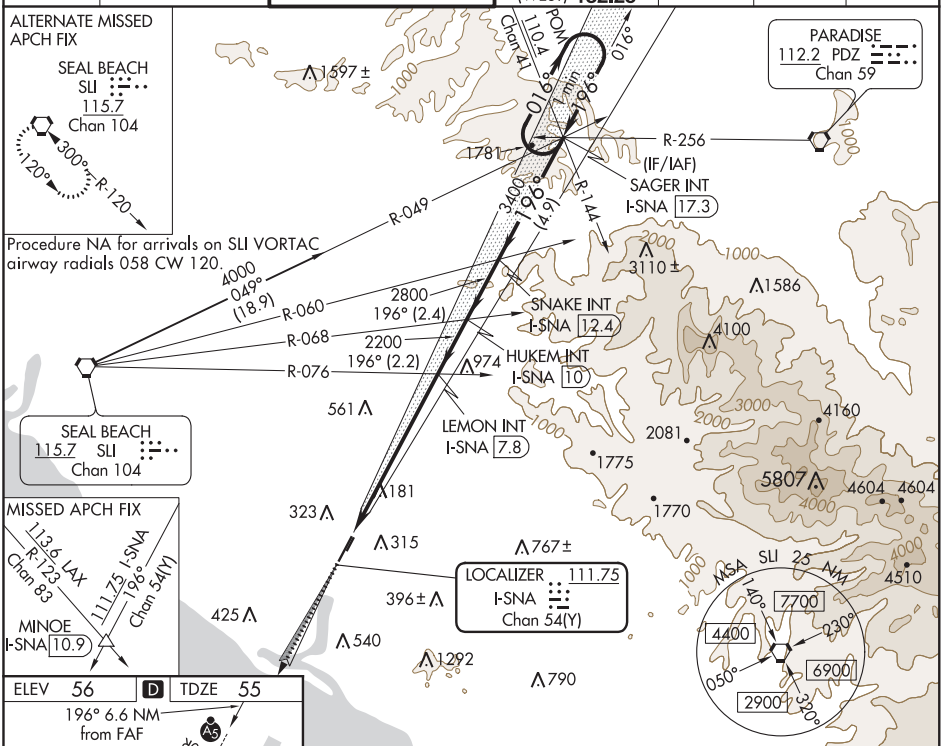
JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

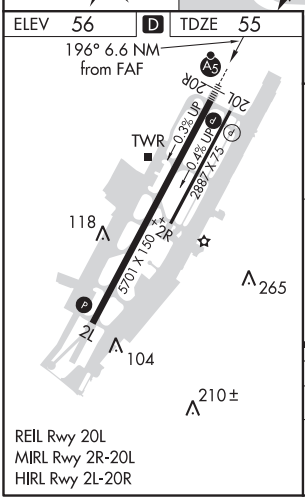
T A Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. Procedure NA when control tower closed.

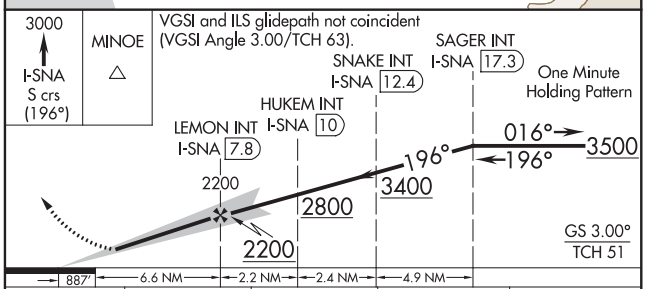
MALSR A5

MISSED APPROACH: Climb to 3000 on I-SNA LOC south course (196°) to MINOE INT/I-SNA 10.9 DME.

D-ATIS	SOCAL APP CON	JOHN WAYNE TOWER ★	GND CON	CLNC DEL	CPDLC	UNICOM
126.0	121.3 263.1	126.8 (CTAF) L 343.625	(EAST) 120.8 (WEST) 132.25	118.0		122.95







CATEGORY	A	B	C	D
S-ILS 20R	RA 201/14 166 DA 221			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (RNP) Z RWY 2L

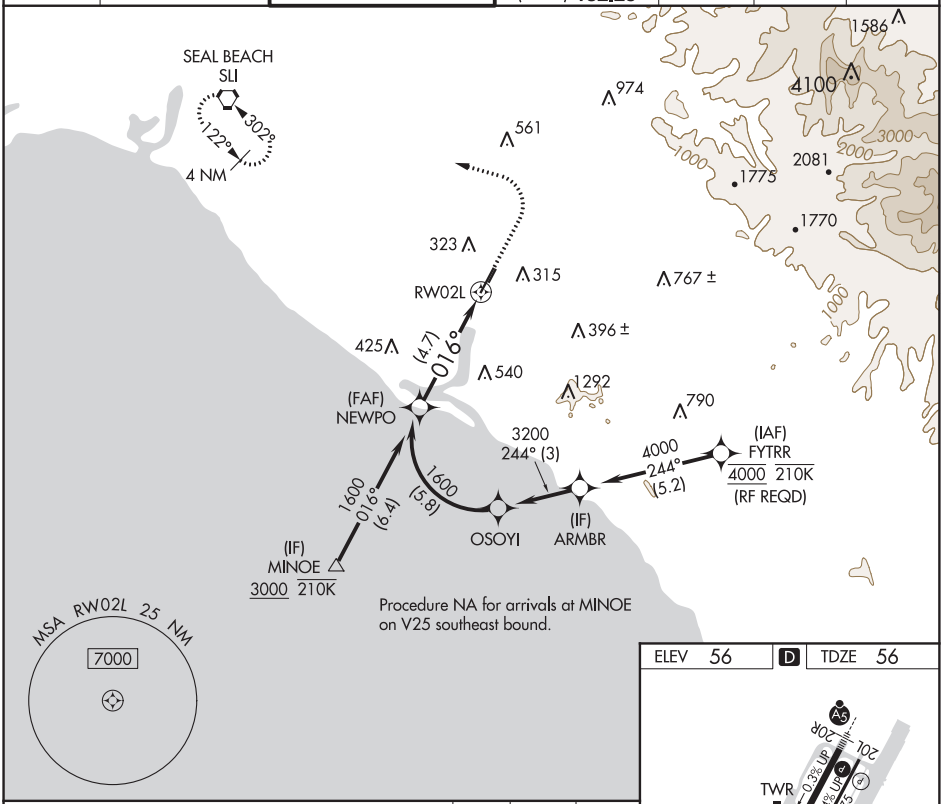
JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

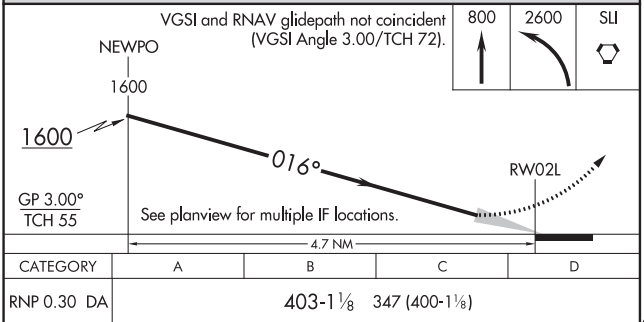
APP CRS	Rwy Idg	5701
016°	TDZE	56
	Apt Elev	56

For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). GPS required.

MISSED APPROACH: Climb to 800 then climbing left turn to 2600 direct SLI VORTAC and hold.

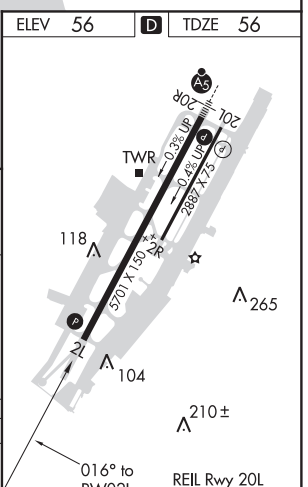
D-ATIS	SOCAL APP CON	JOHN WAYNE TOWER ★	GND CON	CLNC DEL	CPDLC	UNICOM
126.0	121.3 263.1	126.8 (CTAF) Ⓛ 343.625	(EAST) 120.8 (WEST) 132.25	118.0		122.95





CATEGORY	A	B	C	D
RNP 0.30 DA	403-1⅛	347 (400-1⅛)		

AUTHORIZATION REQUIRED



SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (RNP) Z RWY 20R

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

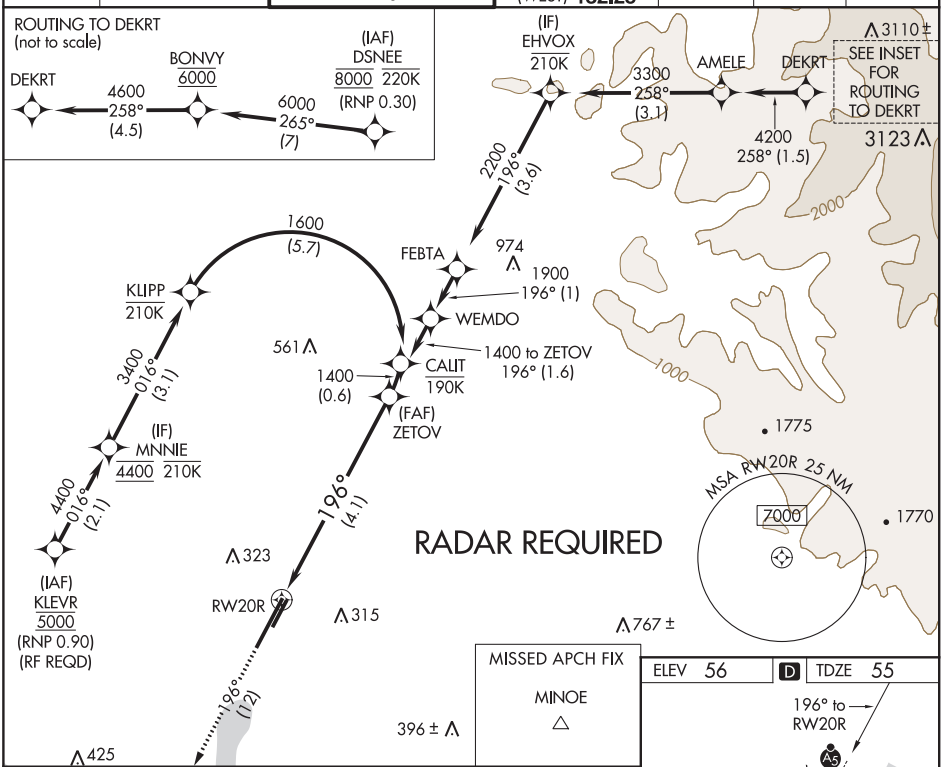
APP CRS	Rwy ldg	5701
196°	TDZE	55
	Apt Elev	56

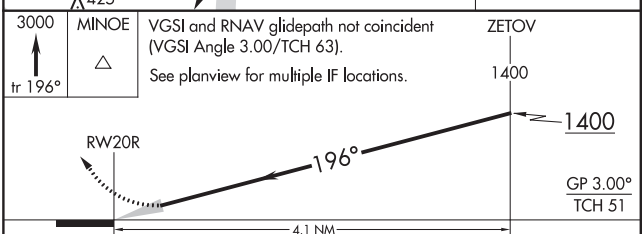
For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). GPS required.

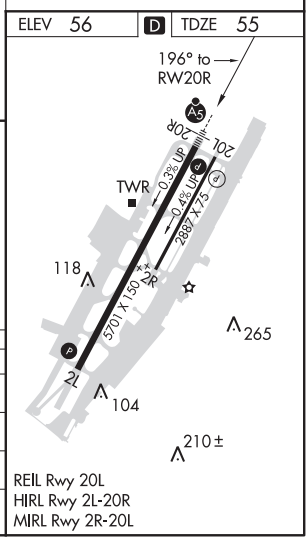
MALSR

MISSED APPROACH: Climb to 3000 on track 196° to MINOE.

D-ATIS	SOCAL APP CON	JOHN WAYNE TOWER ★	GND CON	CLNC DEL	CPDLC	UNICOM
126.0	121.3 263.1	126.8 (CTAF) L 343.625	(EAST) 120.8 (WEST) 132.25	118.0		122.95







CATEGORY	A	B	C	D
RNP 0.11 DA	377/30 322 (400-⅝)			
RNP 0.15 DA	563-1¼ 508 (600-1¼)			
RNP 0.30 DA	619-1½ 564 (600-1½)			

AUTHORIZATION REQUIRED

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SANTA ANA, CALIFORNIA | AL-377 (FAA) | 19171

APP CRS	Rwy Idg	5701
016°	TDZE	56
	Apt Elev	56

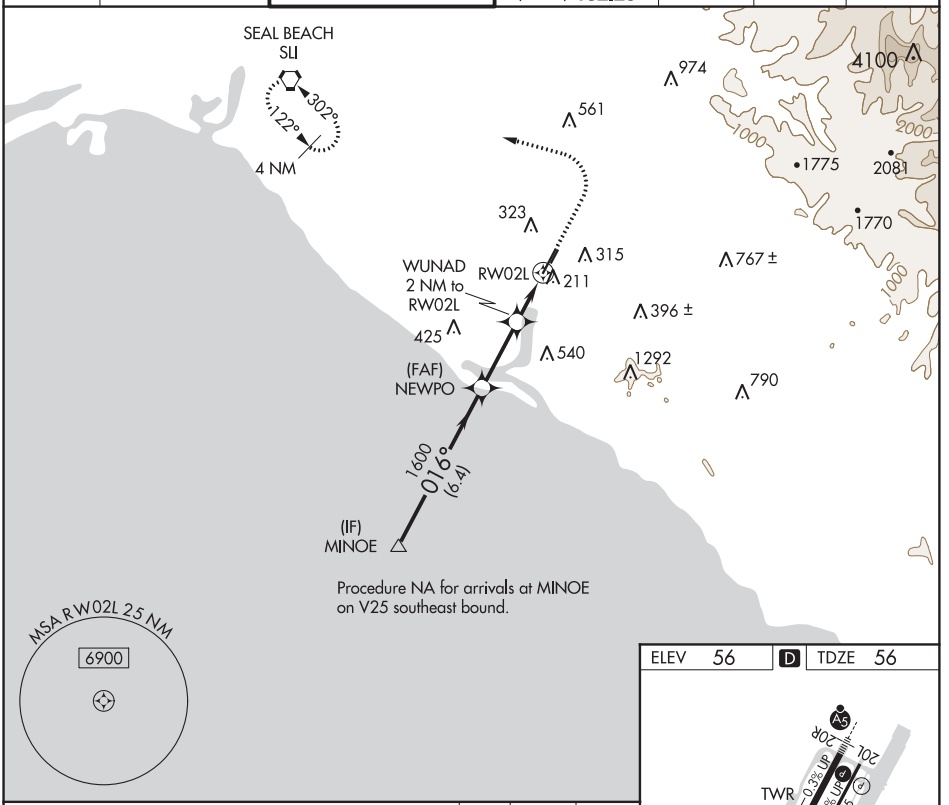
RNAV (GPS) Y RWY 2L

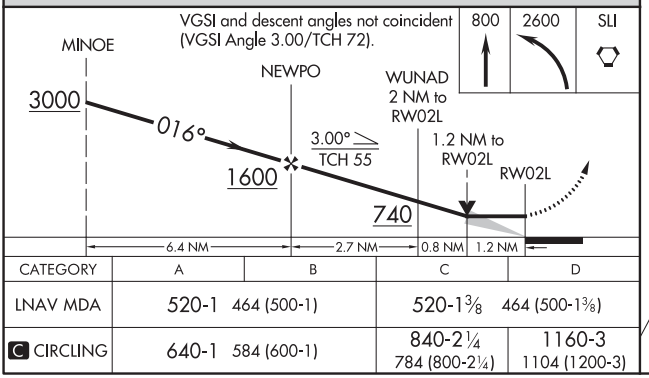
JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

DME/DME RNP-0.3 NA. VDP NA when using Fullerton altimeter setting. When local altimeter setting not received, use Fullerton altimeter setting and increase all MDA 40 feet, increase Circling Cat C visibility ¼ SM.

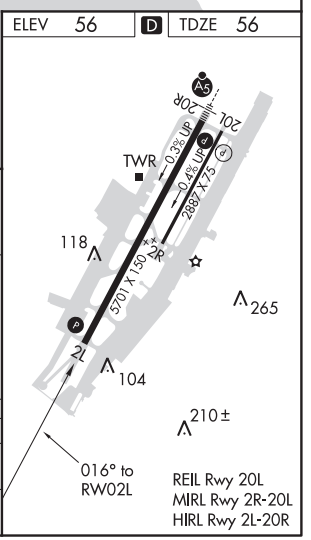
MISSED APPROACH: Climb to 800 then climbing left turn to 2600 direct SLI VORTAC and hold.

D-ATIS	SOCAL APP CON	JOHN WAYNE TOWER ★	GND CON	CLNC DEL	CPDLC	UNICOM
126.0	121.3 263.1	126.8 (CTAF) (L) 343.625	(EAST) 120.8 (WEST) 132.25	118.0		122.95





CATEGORY	A	B	C	D
LNAV MDA	520-1 464 (500-1)		520-1⅜ 464 (500-1⅜)	
C CIRCLING	640-1 584 (600-1)		840-2¼ 784 (800-2¼)	1160-3 1104 (1200-3)



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

SANTA ANA, CALIFORNIA
Amdt 2 10NOV16

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)
33°41′N-117°52′W

RNAV (GPS) Y RWY 2L

WAAS	APP CRS	Rwy Idg	5701
CH 99502	196°	TDZE	55
W20A		Apt Elev	56

RNAV (GPS) Y RWY 20R

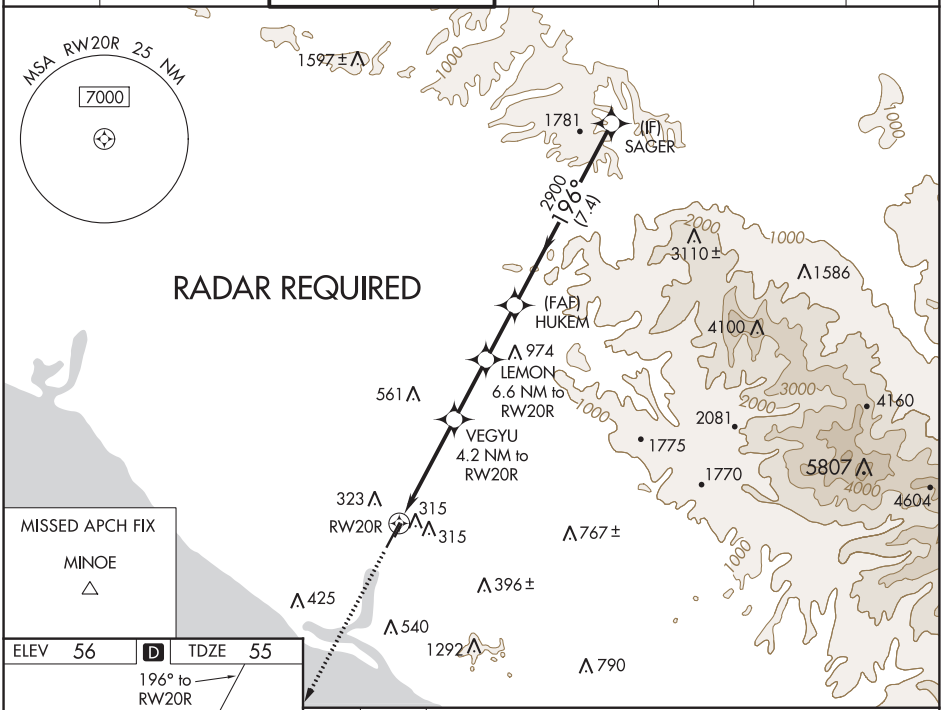
JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°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 to 3000 direct MINOE.

D-ATIS	SOCAL APP CON	JOHN WAYNE TOWER ★	GND CON	CLNC DEL	CPDLC	UNICOM
126.0	121.3 263.1	126.8 (CTAF) L 343.625	(EAST) 120.8 (WEST) 132.25	118.0		122.95



CATEGORY	A	B	C	D
LPV DA#	255/24 200 (200-½)			
LNAV/VNAV DA	516/60 461 (500-1¼)			
LNAV MDA	580/24 525 (600-½)		580/55 525 (600-1)	
C CIRCLING	640-1 584 (600-1)		840-2¼ 784 (800-2¼)	1160-3 1104 (1200-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SANTA ANA, CALIFORNIA | AL-377 (FAA) | 19171

LOC/DME I-SNA	APP CRS	Rwy Idg	5701
111.75	016°	TDZE	56
Chan 54 (Y)		Apt Elev	56

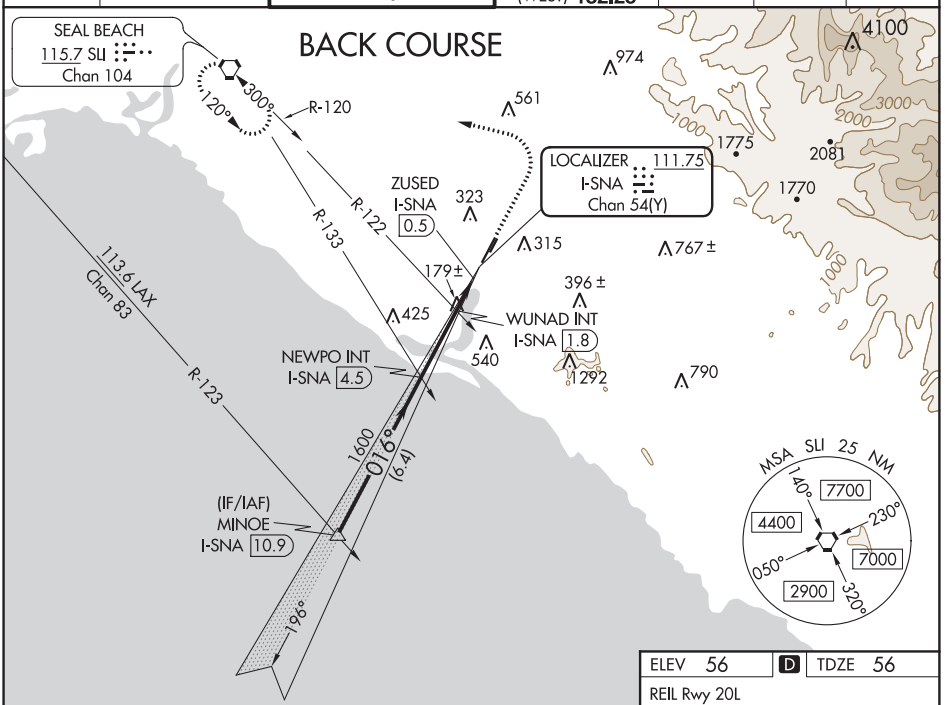
LOC BC RWY 2L

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

When local altimeter setting not received, use Fullerton altimeter setting and increase all MDA 40 feet, increase S-2L Cats C and D and Circling Cat C visibility ¼ SM, and increase WUNAD fix S-2L Cats C and D visibility ⅛ SM; Circling Cat C visibility ¼ SM.

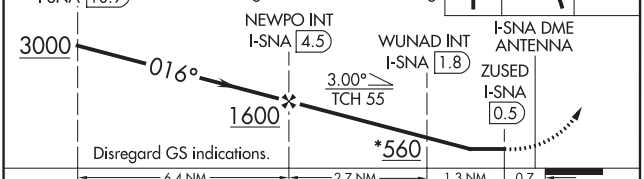
MISSED APPROACH: Climb to 800 then climbing left turn to 2600 direct SLI VORTAC and hold.

D-ATIS	SOCAL APP CON	JOHN WAYNE TOWER ★	GND CON	CLNC DEL	CPDLC	UNICOM
126.0	121.3 263.1	126.8 (CTAF) L 343.625	(EAST) 120.8 (WEST) 132.25	118.0		122.95



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 72).
*600 when using Fullerton altimeter setting.

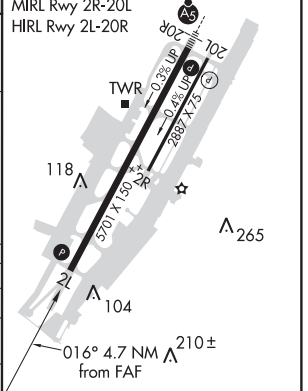
800 | 2600 | SLI



CATEGORY	A	B	C	D
S-2L	560-1	504 (600-1)	560-1⅜	504 (600-1⅜)
C CIRCLING	640-1	584 (600-1)	840-2¼ 784 (800-2¼)	1160-3 1104 (1200-3)
WUNAD FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)				
S-2L	480-1	424 (500-1)	480-1¼	424 (500-1¼)
C CIRCLING	640-1	584 (600-1)	840-2¼ 784 (800-2¼)	1160-3 1104 (1200-3)

ELEV 56 | D | TDZE 56

REIL Rwy 20L
MIRL Rwy 2R-20L
HIRL Rwy 2L-20R



FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

SANTA ANA, CALIFORNIA
Amdt 13 10NOV16

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)
33°41′N-117°52′W
LOC BC RWY 2L

SW-3, 05 NOV 2020 to 31 DEC 2020

LOC/DME I-OJW	APP CRS	Rwy Idg	5701
108.3	183°	TDZE	55
Chan 20		Apt Elev	56

LDA/DME RWY 20R

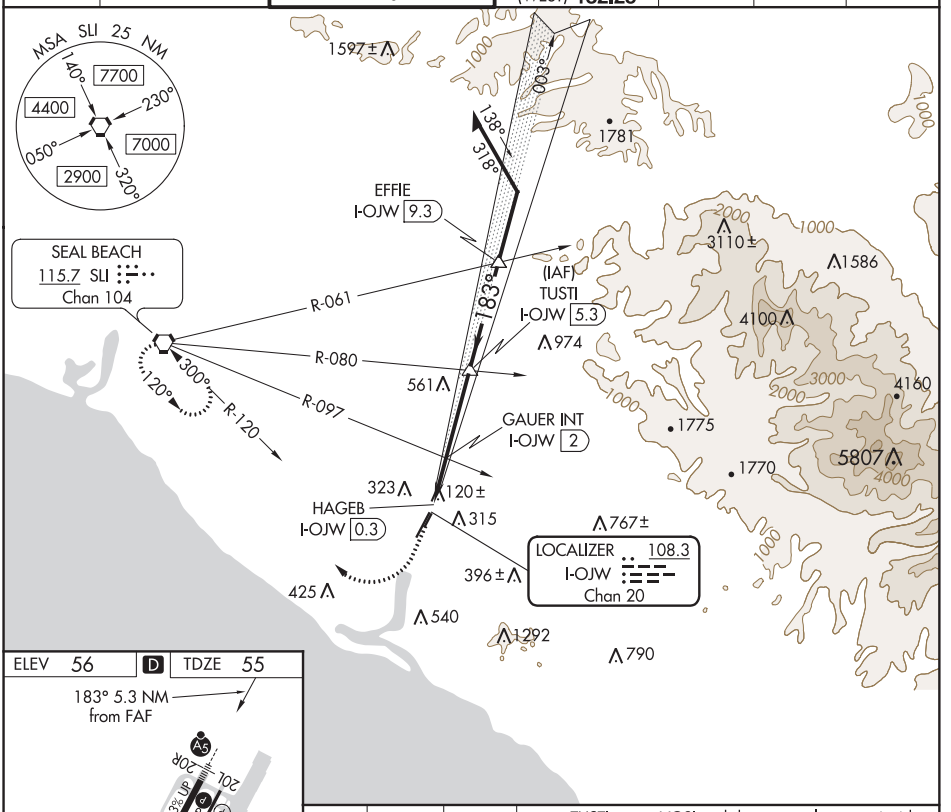
JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

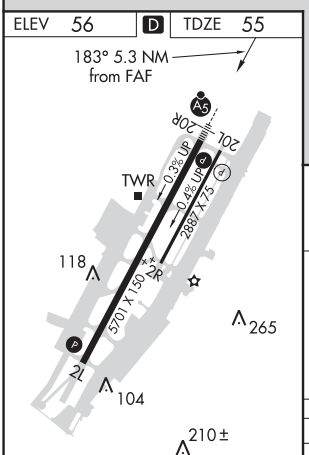
When local altimeter not received, use Fullerton altimeter setting and increase all MDA 40 feet and increase S-20R Cats C/D visibility to RVR 5000 and Circling Cat C visibility ¼ mile. Helicopter visibility reduction below RVR 4000 NA.

MALSR

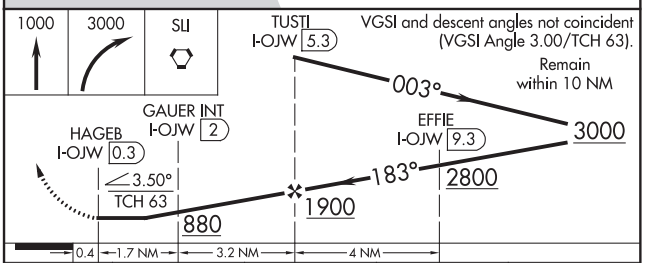
MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct SLI VORTAC and hold.

D-ATIS	SOCAL APP CON	JOHN WAYNE TOWER ★	GND CON	CLNC DEL	CPDLC	UNICOM
126.0	121.3 263.1	126.8 (CTAF) L 343.625	(EAST) 120.8 (WEST) 132.25	118.0		122.95





REIL Rwy 20L
MIRL Rwy 2R-20L
HIRL Rwy 2L-20R



CATEGORY	A	B	C	D
S-20R	400/40 345 (400-¾)			
C CIRCLING	640-1 584 (600-1)		840-2¼ 784 (800-2¼)	1160-3 1104 (1200-3)

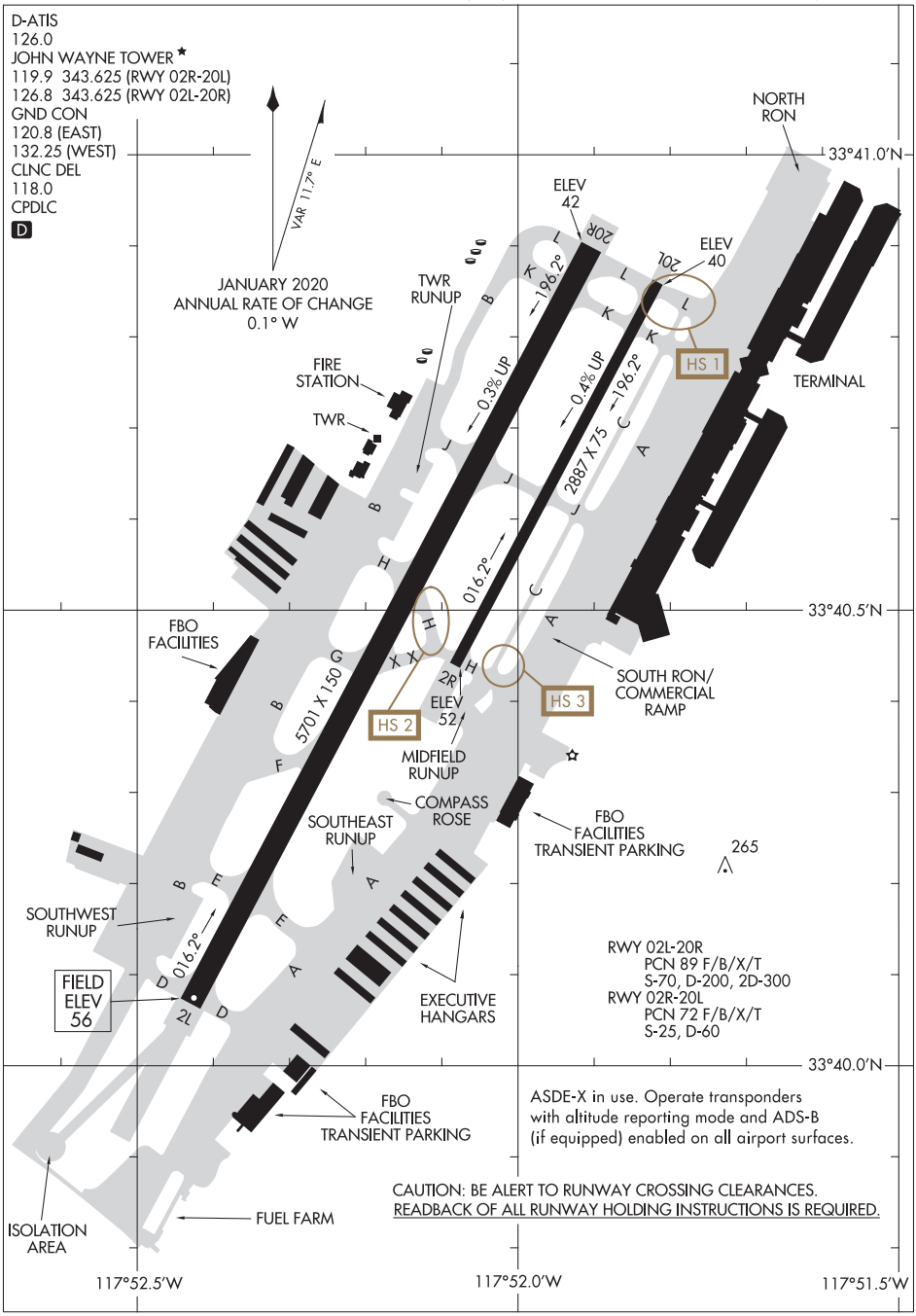
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

JOHN WAYNE ARPT-ORANGE COUNTY (SNA)

AL-377 (FAA) SANTA ANA, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086

SANTA ANA, CALIFORNIA
JOHN WAYNE ARPT-ORANGE COUNTY (SNA)

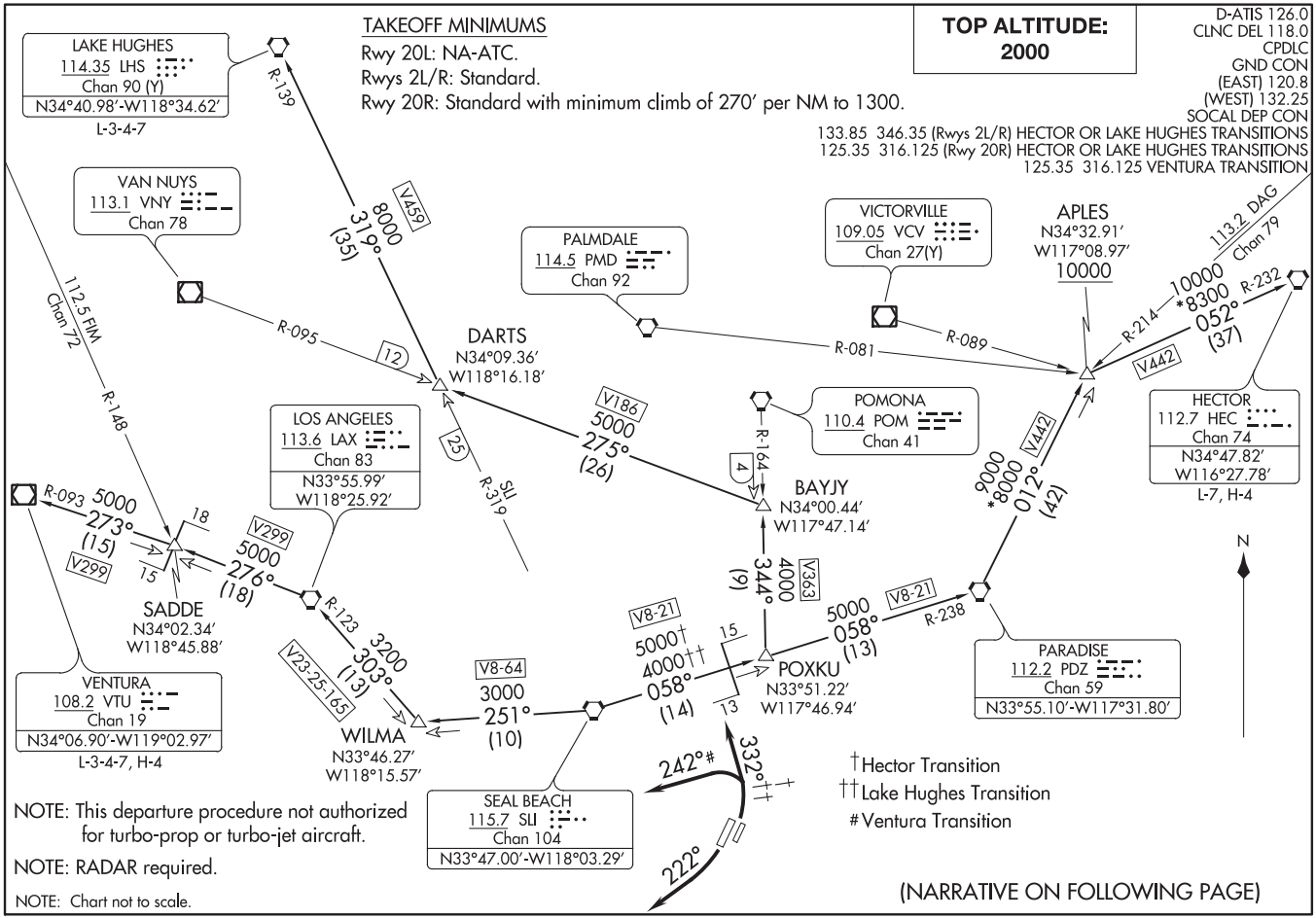
(ANAHM1.SLI) 20310

ANAHEIM ONE DEPARTURE

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

AL-377 (FAA)

SANTA ANA, CALIFORNIA



ANAHEIM ONE DEPARTURE

(ANAHM1.SLI) 19JUL18

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

SANTA ANA, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 20R: Turn right heading 222° for vectors to SLI VORTAC, thence. . . .
TAKEOFF RUNWAYS 2L/R (HECTOR or LAKE HUGHES TRANSITION): Turn left heading 332° for vectors to SLI VORTAC, thence. . . .
TAKEOFF RUNWAYS 2L/R (VENTURA TRANSITION): Turn left heading 242° for vectors to LAX VORTAC, thence. . . .

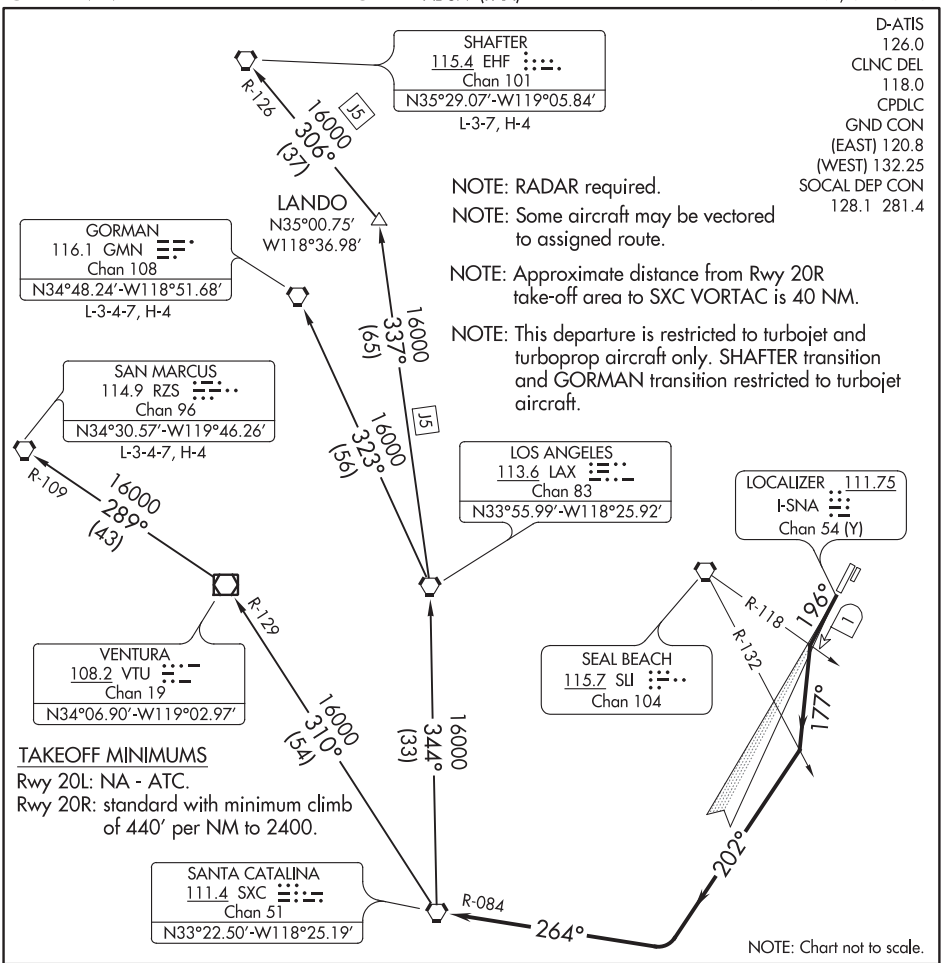
. . . .on (transition) or (assigned route). Maintain 2000 and expect filed altitude 10 minutes after departure.

HECTOR TRANSITION (ANAHM1.HEC): From over SLI VORTAC on SLI R-058 and PDZ R-238 to PDZ VORTAC, then on PDZ R-012 to APLES, then on HEC R-232 to HEC VORTAC.

LAKE HUGHES TRANSITION (ANAHM1.LHS): From over SLI VORTAC on SLI R-058 and PDZ R-238 to POXKU, then on POM R-164 to BAYJY, then on VNY R-095 to DARTS, then on LHS R-139 to LHS VORTAC.

VENTURA TRANSITION (ANAHM1.VTU): From over SLI VORTAC on SLI R-251 to WILMA, then on LAX R-123 to LAX VORTAC, then on LAX R-276 to SADDE, then on VTU R-093 to VTU VOR/DME.

SW-3, 05 NOV 2020 to 31 DEC 2020



SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 20R: Climb heading 196° or I-SNA localizer south course to I-SNA 1 DME fix or SLI R-118, turn left heading 177°, cross SLI R-132 then turn right heading 202°, intercept and proceed via SXC R-084 to SXC VORTAC, thence . . . .

. . . . via (transition) or (assigned route). Expect filed altitude ten minutes after departure.

GORMAN TRANSITION (CHANL3.GMN): From over SXC VORTAC on SXC R-344 to LAX VORTAC, then on LAX R-323 to GMN VORTAC.

SAN MARCUS TRANSITION (CHANL3.RZS): From over SXC VORTAC on SXC R-310 and VTU R-129 to VTU VOR/DME, then on VTU R-289 and RZS R-109 to RZS VORTAC.

SHAFTER TRANSITION (CHANL3.EHF): From over SXC VORTAC on SXC R-344 to LAX VORTAC, then on LAX R-337 to LANDO INT, then on EHF R-126 to EHF VORTAC.

EL TORO FOUR DEPARTURE

(ELB4.ELB) 08JAN15

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

SANTA ANA, CALIFORNIA

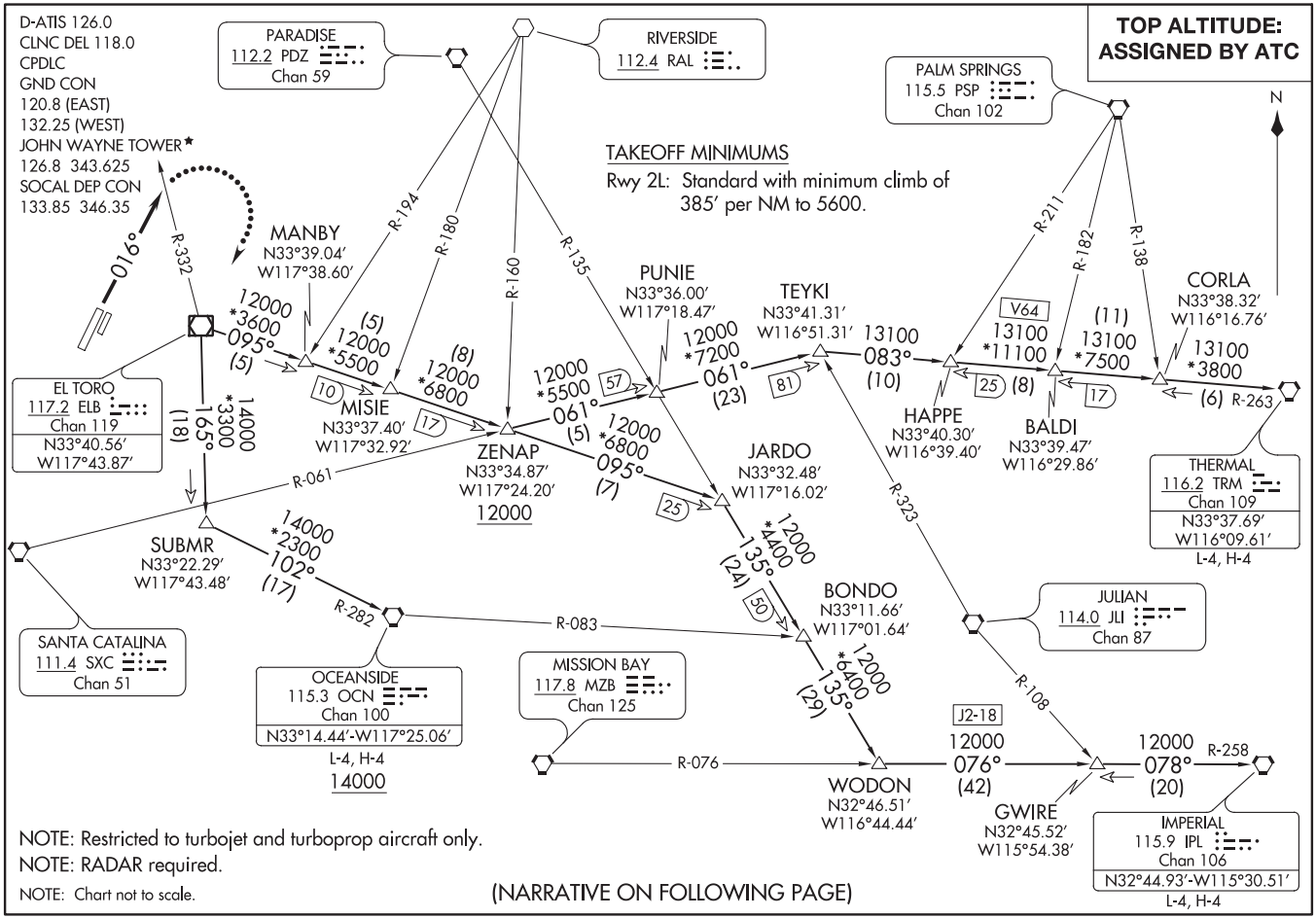
EL TORO FOUR DEPARTURE

(ELB4.ELB) 20310

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

SANTA ANA, CALIFORNIA

AL-377 (FAA)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2L: Climb heading 016° for vectors to ELB VOR/DME, thence . . . . . (transition) or (assigned route). Expect filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control by ELB R-332, turn right direct ELB VOR/DME, climb to 7000 and proceed on assigned transition or route. Climb to filed altitude ten minutes after departure.

IMPERIAL TRANSITION (ELB4.IPL): From over ELB VOR/DME on ELB R-095 to JARDO, then on PDZ R-135 to WODON, then on MZB R-076 and IPL R-258 to GWIRE, then on IPL R-258 to IPL VORTAC.

OCEANSIDE TRANSITION (ELB4.OCN): From over ELB VOR/DME on ELB R-165 to SUBMR, then on OCN R-282 to OCN VORTAC.

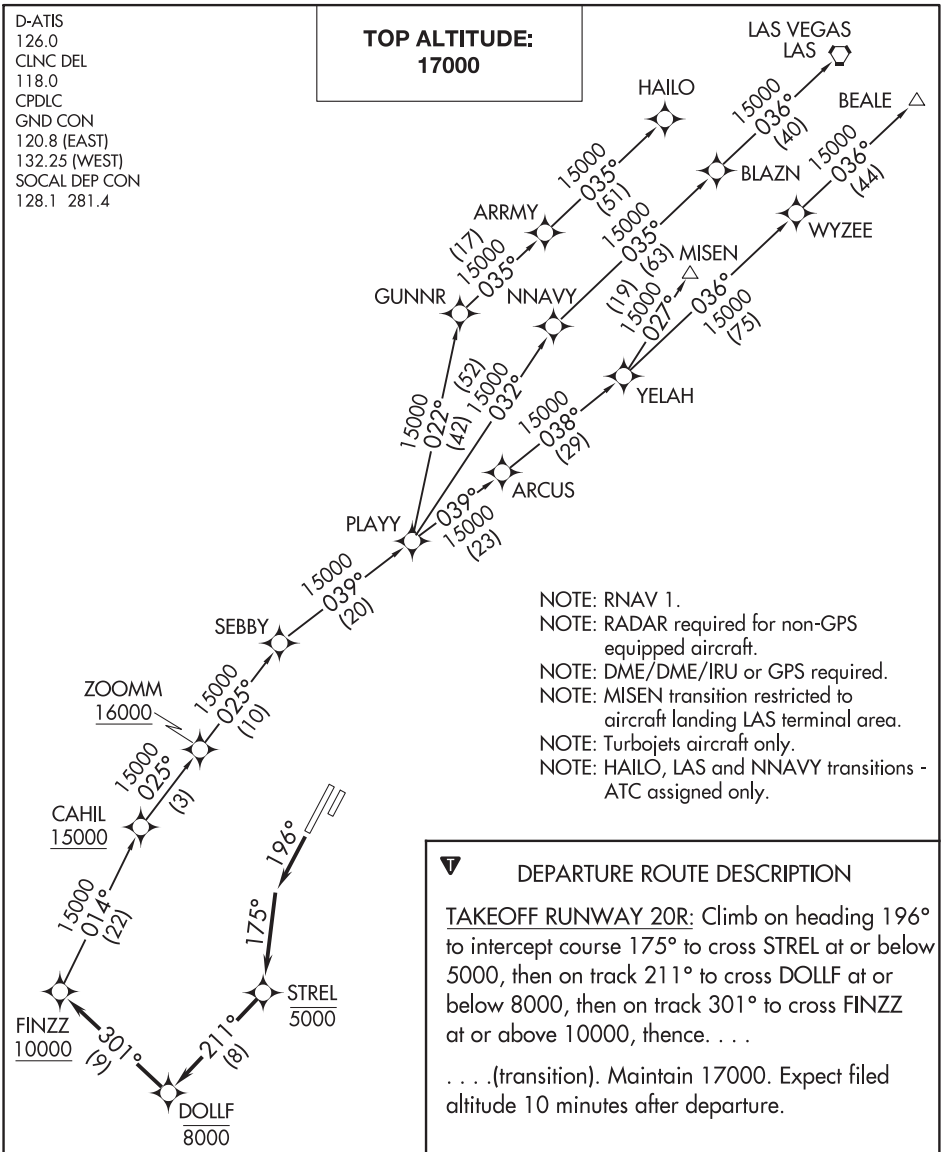
THERMAL TRANSITION (ELB4.TRM): From over ELB VOR/DME on ELB R-095 to ZENAP, then on SXC R-061 to TEYKI, then on TRM R-263 to TRM VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020

(FINZZ3.FINZZ) 20254

FINZZ THREE DEPARTURE (RNAV)

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)
AL-377 (FAA) SANTA ANA, CALIFORNIA



NOTE: RNAV 1.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: DME/DME/IRU or GPS required.
NOTE: MISEN transition restricted to aircraft landing LAS terminal area.
NOTE: Turbojets aircraft only.
NOTE: HAILO, LAS and NNAVY transitions - ATC assigned only.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 20R: Climb on heading 196° to intercept course 175° to cross STREL at or below 5000, then on track 211° to cross DOLLF at or below 8000, then on track 301° to cross FINZZ at or above 10000, thence. . . .

. . . .(transition). Maintain 17000. Expect filed altitude 10 minutes after departure.

BEALE TRANSITION (FINZZ3.BEALE)
HAILO TRANSITION (FINZZ3.HAILO)
LAS VEGAS TRANSITION (FINZZ3.LAS)
MISEN TRANSITION (FINZZ3.MISEN)
NNAVY TRANSITION (FINZZ3.NNAVY)

TAKEOFF MINIMUMS
Rwy 20R: Standard with a minimum climb of 320' per NM to 560.

NOTE: Chart not to scale.

FINZZ THREE DEPARTURE (RNAV)
(FINZZ3.FINZZ) 10SEP20

SANTA ANA, CALIFORNIA
JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

SW-3, 05 NOV 2020 to 31 DEC 2020

HAWWC THREE DEPARTURE (RNAV)

(HAWWC3.HAWWC) 19JUL18

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

SANTA ANA, CALIFORNIA

(HAWWC3.HAWWC) 19171

HAWWC THREE DEPARTURE (RNAV)

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

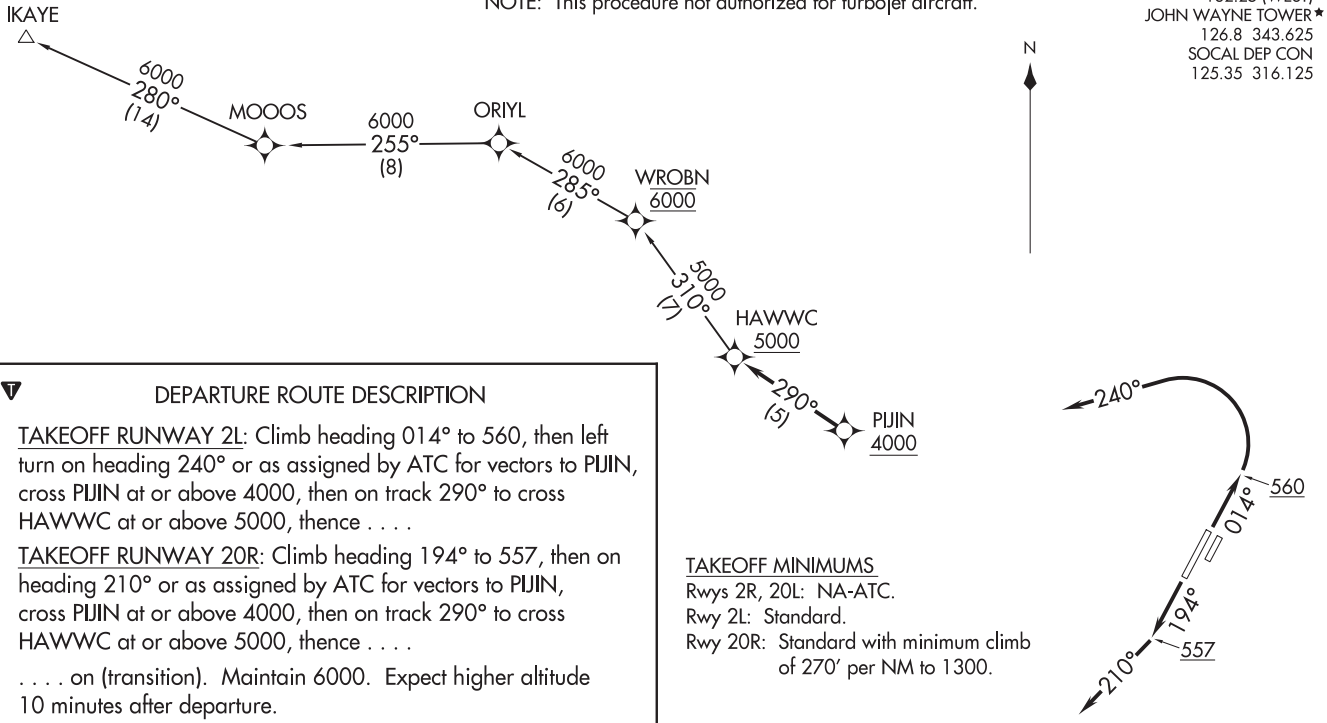
AL-377 (FAA)

SANTA ANA, CALIFORNIA

TOP ALTITUDE: 6000

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: This procedure not authorized for turbojet aircraft.

D-ATIS 126.0
CLNC DEL 118.0
CPDLC
GND CON 120.8 (EAST) 132.25 (WEST)
JOHN WAYNE TOWER ★ 126.8 343.625
SOCAL DEP CON 125.35 316.125



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2L: Climb heading 014° to 560, then left turn on heading 240° or as assigned by ATC for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

TAKEOFF RUNWAY 20R: Climb heading 194° to 557, then on heading 210° or as assigned by ATC for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .

. . . . on (transition). Maintain 6000. Expect higher altitude 10 minutes after departure.

IKAYE TRANSITION (HAWWC3.IKAYE)

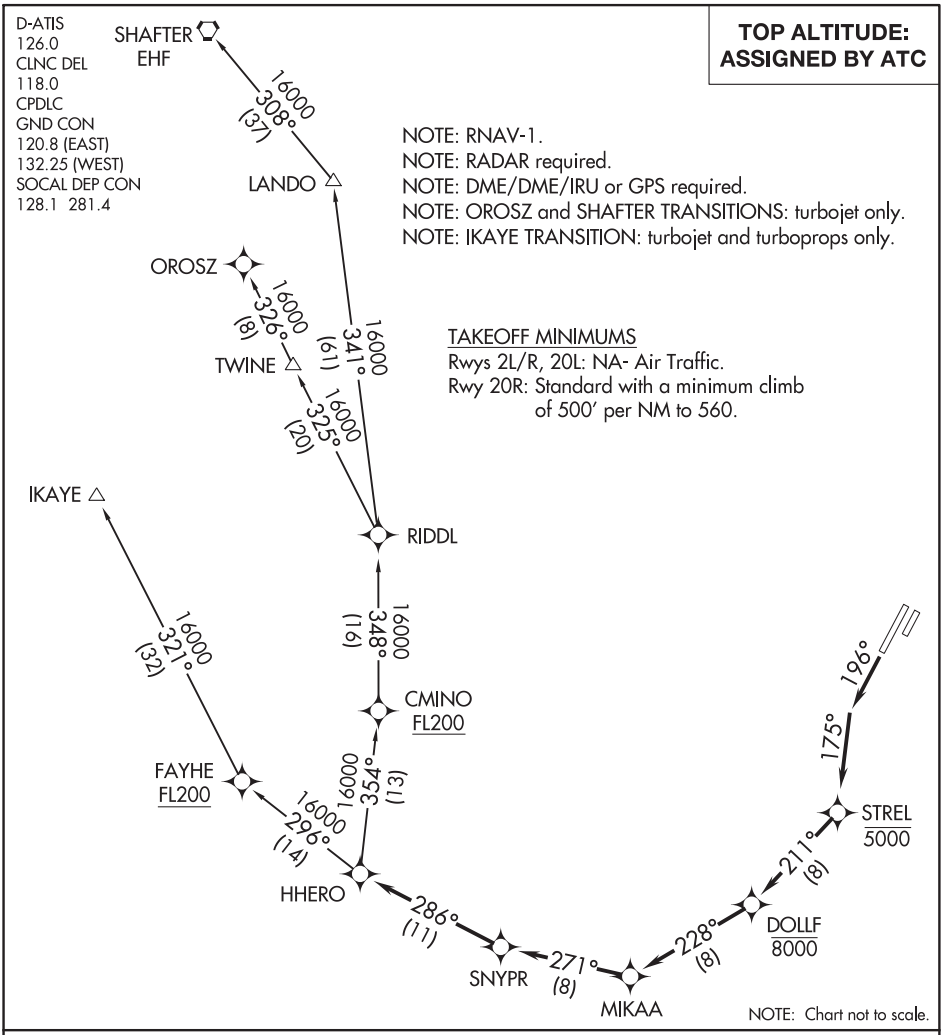
TAKEOFF MINIMUMS
Rwys 2R, 20L: NA-ATC.
Rwy 2L: Standard.
Rwy 20R: Standard with minimum climb of 270′ per NM to 1300.

NOTE: Chart not to scale.

(HHERO3.HHERO) 18200

HHERO THREE DEPARTURE (RNAV)

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)
AL-377 (FAA) SANTA ANA, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 20R: Climb heading 196° to intercept course 175° to cross STREL at or below 5000, then on track 211° to cross DOLLF at or below 8000, then on depicted route to HHERO, thence. . . .

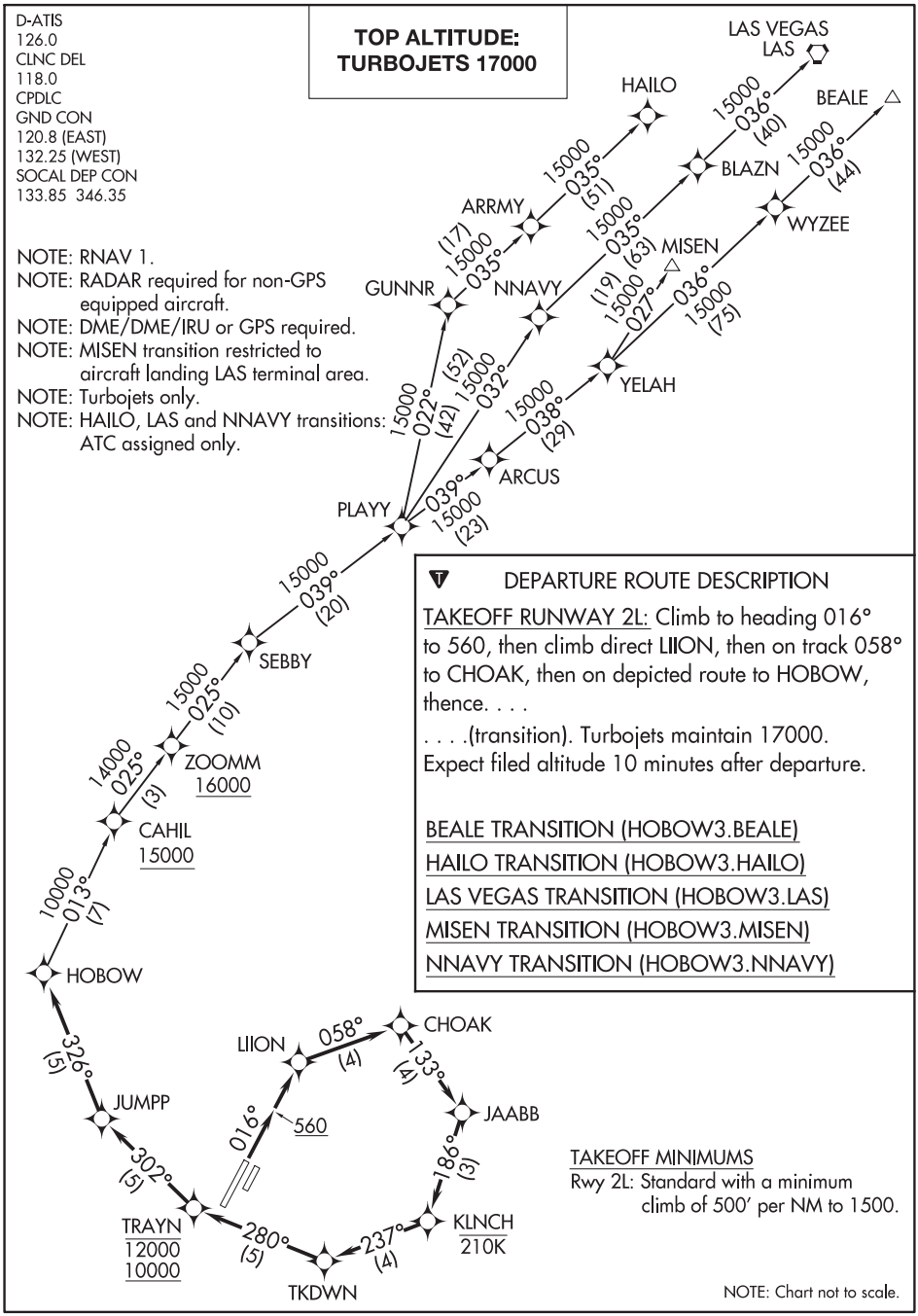
. . . .(transition). Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

IKAYE TRANSITION (HHERO3.IKAYE)

OROSZ TRANSITION (HHERO3.OROSZ)

SHAFTER TRANSITION (HHERO3.EHF)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020



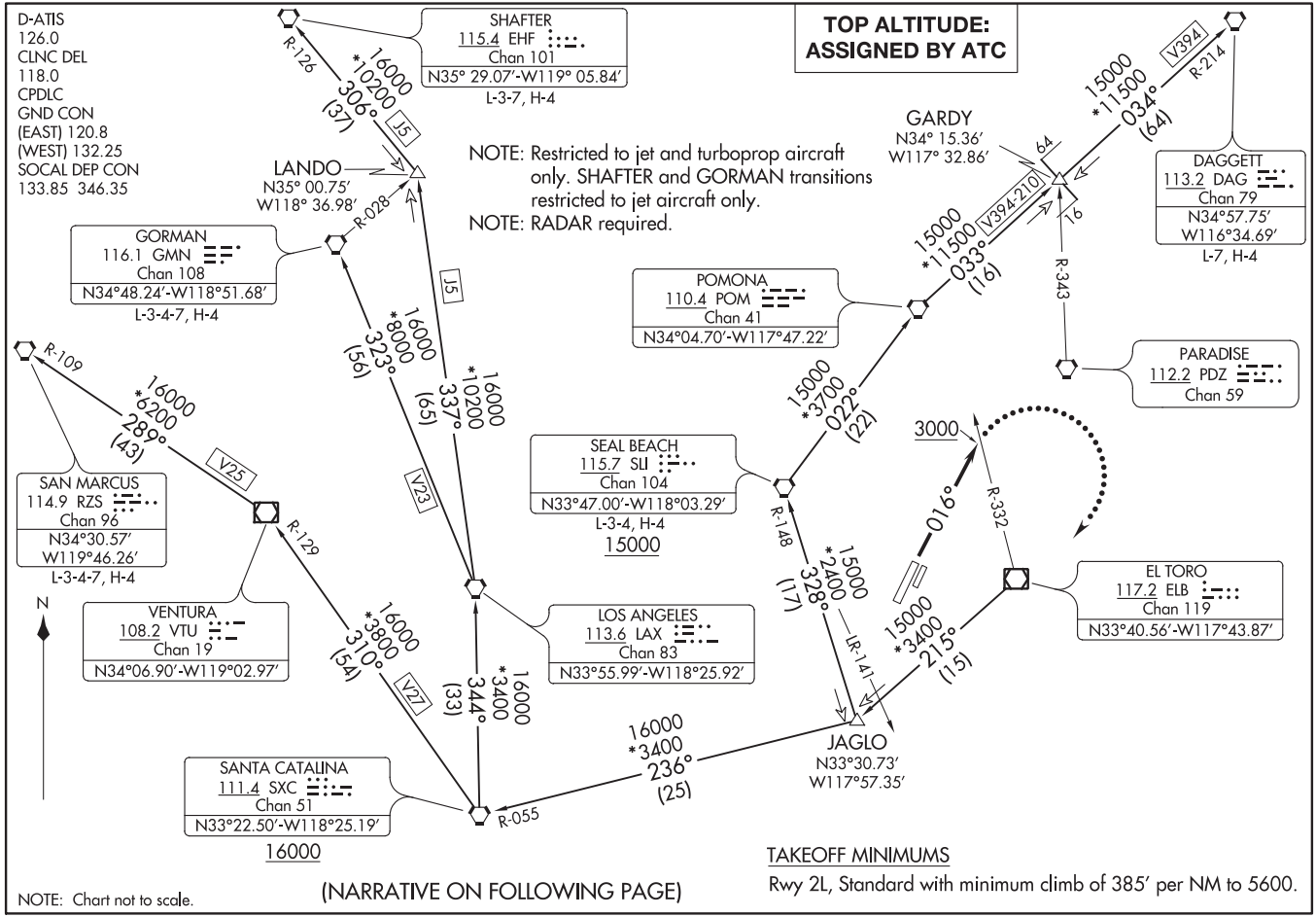
SW-3, 05 NOV 2020 to 31 DEC 2020

IRVINE FIVE DEPARTURE

(IRV5.IRV) 28FEB19

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

SANTA ANA, CALIFORNIA



(IRV5.IRV) 20310

IRVINE FIVE DEPARTURE

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

SANTA ANA, CALIFORNIA

AL-377 (FAA)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2L: Climb heading 016° to 3000, continue climb to assigned altitude on assigned heading for RADAR vectors to ELB VOR/DME R-215. Thence . . . .

. . . . on (transition) or assigned route. Maintain ATC assigned altitude, expect filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control by ELB R-332, turn right direct ELB VOR/DME, climb to 7000 and proceed via assigned transition or route. Climb to filed altitude ten minutes after departure.

DAGGETT TRANSITION (IRV5.DAG): From over ELB VOR/DME on ELB R-215 and SLI R-148 to SLI VORTAC, then on SLI R-022 to POM VORTAC, then on POM R-033 and DAG R-214 to DAG VORTAC.

GORMAN TRANSITION (IRV5.GMN): From over ELB VOR/DME on ELB R-215 and SXC R-055 to SXC VORTAC, then on SXC R-344 to LAX VORTAC, then on LAX R-323 to GMN VORTAC.

SAN MARCUS TRANSITION (IRV5.RZS): From over ELB VOR/DME on ELB R-215 and SXC R-055 to SXC VORTAC, then on SXC R-310 and VTU R-129 to VTU VOR/DME, then on VTU R-289 and RZS R-109 to RZS VORTAC.

SEAL BEACH TRANSITION (IRV5.SLI): From over ELB VOR/DME on ELB R-215 and on SLI R-148 to SLI VORTAC.

SHAFTER TRANSITION (IRV5.EHF): From over ELB VOR/DME on ELB R-215 and SXC R-055 to SXC VORTAC, then on SXC R-344 to LAX VORTAC, then on LAX R-337 and EHF R-126 to EHF VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020

MIKAA ONE DEPARTURE (RNAV)

(MIKAA1.MIKAA) 27APR17

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

SANTA ANA, CALIFORNIA

(MIKAA1.MIKAA) 17285

MIKAA ONE DEPARTURE (RNAV)

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

AL-377 (FAA)

SANTA ANA, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2L: Climb heading 016° to 560, then direct LIION, then on track 058° to CHOAK, then on depicted route to MIKAA thence. . . .

. . . . (transition). Maintain 14000, expect filed altitude within 10 minutes of departure.

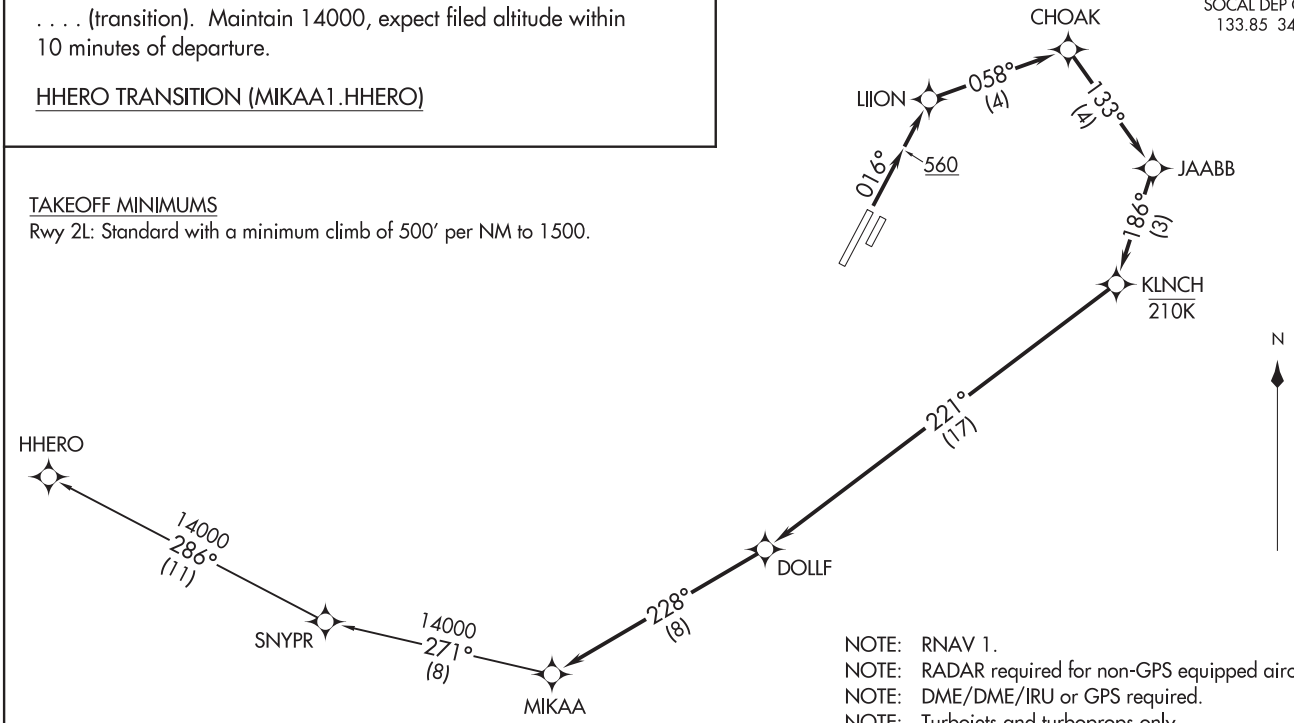
HHERO TRANSITION (MIKAA1.HHERO)

TOP ALTITUDE: 14000

D-ATIS 126.0
CLNC DEL 118.0
CPDLC
GND CON 120.8 (EAST) 132.25 (WEST)
SOCAL DEP CON 133.85 346.35

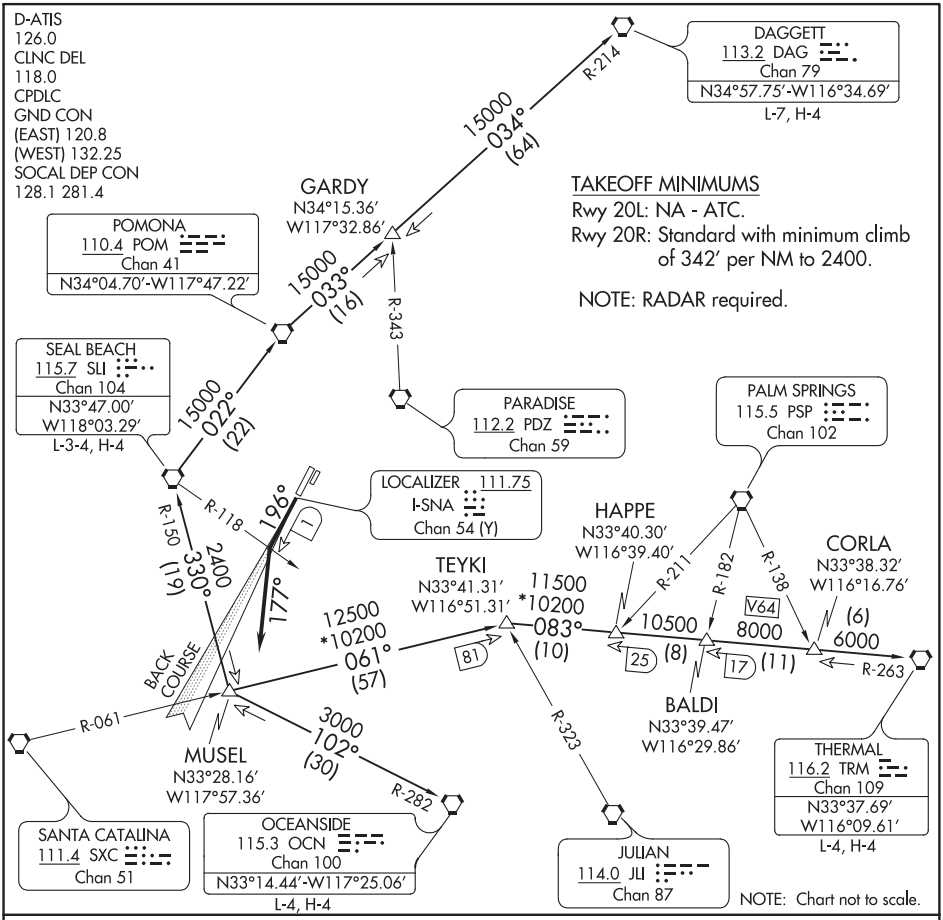
TAKEOFF MINIMUMS

Rwy 2L: Standard with a minimum climb of 500′ per NM to 1500.



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

NOTE: Chart not to scale.



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 20R: Climb heading 196° or I-SNA localizer south course to I-SNA 1 DME fix or SLI R-118, turn left heading 177° for vectors to MUSEL INT. Thence . . . .

. . . . on (transition) or (assigned route). Expect filed altitude ten minutes after departure.

DAGGETT TRANSITION (MUSEL8.DAG): From over MUSEL INT on SLI R-150 to SLI VORTAC, then on SLI R-022 to POM VORTAC, then on POM R-033 to GARDY INT and on DAG R-214 to DAG VORTAC.

OCEANSIDE TRANSITION (MUSEL8.OCN): From over MUSEL INT on OCN R-282 to OCN VORTAC.

SEAL BEACH TRANSITION (MUSEL8.SLI): From over MUSEL INT on SLI R-150 to SLI VORTAC.

THERMAL TRANSITION (MUSEL8.TRM): From over MUSEL INT on SXC R-061 to TEYKI INT and TRM R-263 to TRM VORTAC.

(PIGGN2.PIGGN) 19171

PIGGN TWO DEPARTURE (RNAV)

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)
AL-377 (FAA)
SANTA ANA, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

PIGGN TWO DEPARTURE (RNAV)

(PIGGN2.PIGGN) 17AUG17

SANTA ANA, CALIFORNIA
JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2L: Climb heading 016° to 560, then direct LIION, then on track 058° to CHOAK, then on track 133° to cross JAABB at or above 4100 and at or below 210K, then on track 120° to cross MANBY at or above 7000, then on track 105° to cross PIGGN at or above 9000, thence. . . .

TAKEOFF RUNWAY 20R: Climb heading 196° to intercept course 175° to cross STREL at or below 5000, then on track 140° to TANGL, then on track 103° to cross SHIRR at or above 7000, then on track 073° to DANAH, then on track 048° to cross PIGGN at or above 9000, thence. . . .

. . . . on (transition) maintain 13000. Expect filed altitude 10 minutes after departure.

AVRRY TRANSITION (PIGGN2.AVRRY)

CNERY TRANSITION (PIGGN2.CNERY)

OTAYY TRANSITION (PIGGN2.OTAYY)

TCATE TRANSITION (PIGGN2.TCATE)

SW-3, 05 NOV 2020 to 31 DEC 2020

(STAYY3.STAYY) 19283

STAYY THREE DEPARTURE (RNAV)

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

AL-377 (FAA)

SANTA ANA, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 06 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 20R: Climb on course 196° to cross BIKKL at or above 556, then left turn to HEFAY, then right turn to cross PAPAU at or below 5000 and at or below 220K, then left turn to cross LRREN at or below 5000, then left turn to HTCHR, then on track 140° to TANGL, then on track 103° to cross SHIRR at or above 7000, then on track 073° to DANAH, then on track 048° to cross STAYY at or above 9000, thence. . . .

. . . .on (transition). Maintain 13000. Expect filed altitude 10 minutes after departure.

AVRRY TRANSITION (STAYY3.AVRRY)

CNERY TRANSITION (STAYY3.CNERY)

OTAYY TRANSITION (STAYY3.OTAYY)

TCATE TRANSITION (STAYY3.TCATE)

SW-3, 05 NOV 2020 to 31 DEC 2020

SANTA BARBARA, CALIFORNIA | AL-378 (FAA) | 20310

LOC/DME I-SBA	APP CRS	Rwy Idg	6052
110.3	075°	TDZE	13
Chan 40		Apt Elev	13

ILS or LOC RWY 7

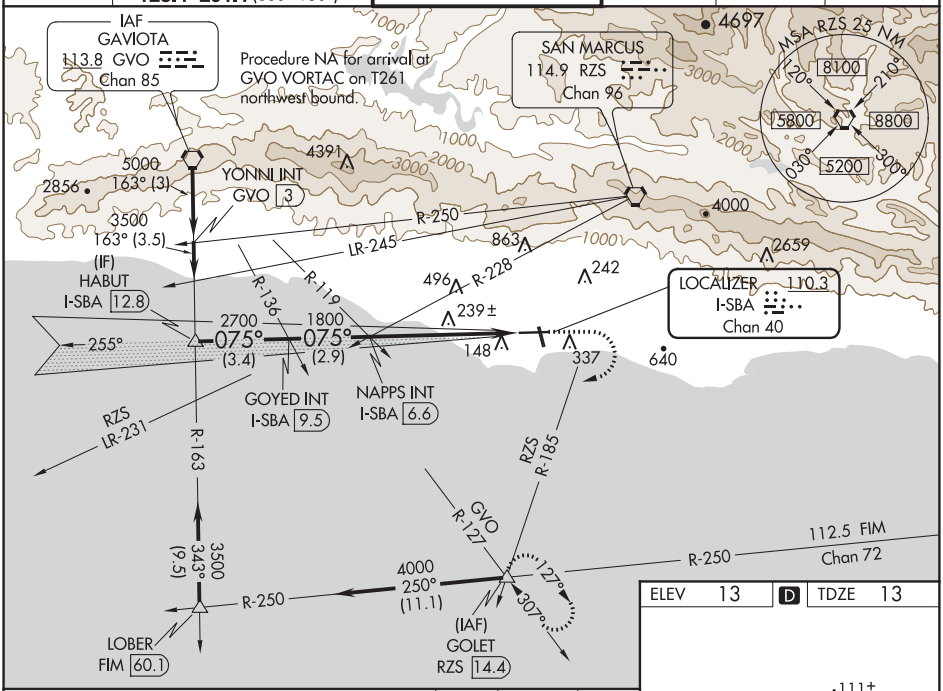
SANTA BARBARA MUNI (SBA)

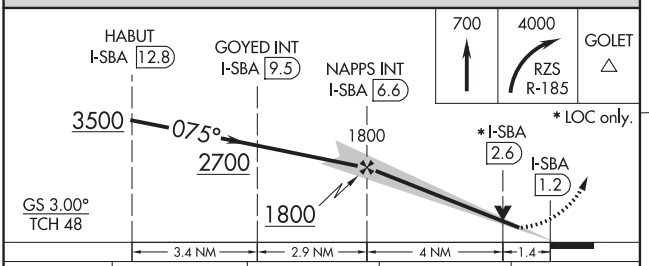
Circling Rwy 15R NA at night. VDP NA when using Oxnard altimeter setting.
When local altimeter setting not received, use Oxnard altimeter setting and increase all DA/MDA 100 feet, and S-LOC Cat C visibility to RVR 5000, Cat D visibility to RVR 6000. Increase Circling Cat A visibility ¼ mile, Cat C visibility ½ mile. For inop ALS when using Oxnard altimeter setting, increase S-ILS 7 all Cats visibility to RVR 5000.
RVR 1800 authorized with use of FD or AP or HUD to DA (NA when using Oxnard altimeter setting).

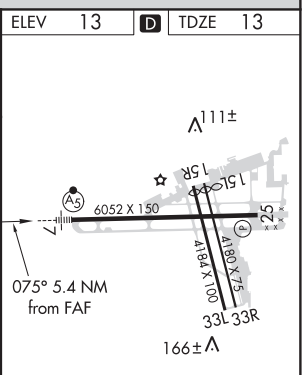
MALSR

MISSED APPROACH: Climb to 700 then climbing right turn to 4000 on RZS VORTAC R-185 to GOLET INT/RZS 14.4 DME and hold, continue climb-in-hold to 4000.

ATIS	SANTA BARBARA APP CON	SANTA BARBARA TOWER★	GND CON	CLNC DEL	UNICOM
132.65	120.55 319.15 (151°-329°) 125.4 291.1 (330°-150°)	119.7 (CTAF) L 254.35	121.7	132.9	122.95







CATEGORY	A	B	C	D
S-ILS 7 #	213/24 200 (200-½)			
S-LOC 7	500/24 487 (500-½)		500/40 487 (500-¾)	500/50 487 (500-1)
CIRCLING	800-1 787 (800-1)	800-1¼ 787 (800-1¼)	800-2 ¼ 787 (800-2 ¼)	1000-3 987 (1000-3)

HIRL Rwy 7-25
MIRL Rwy 15R-33L L
REIL Rwy 15R L
REIL Rwy 25

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-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS	Rwy Idg	6052
CH 78306	074°	TDZE	13
W07A		Apt Elev	14

RNAV (GPS) RWY 7

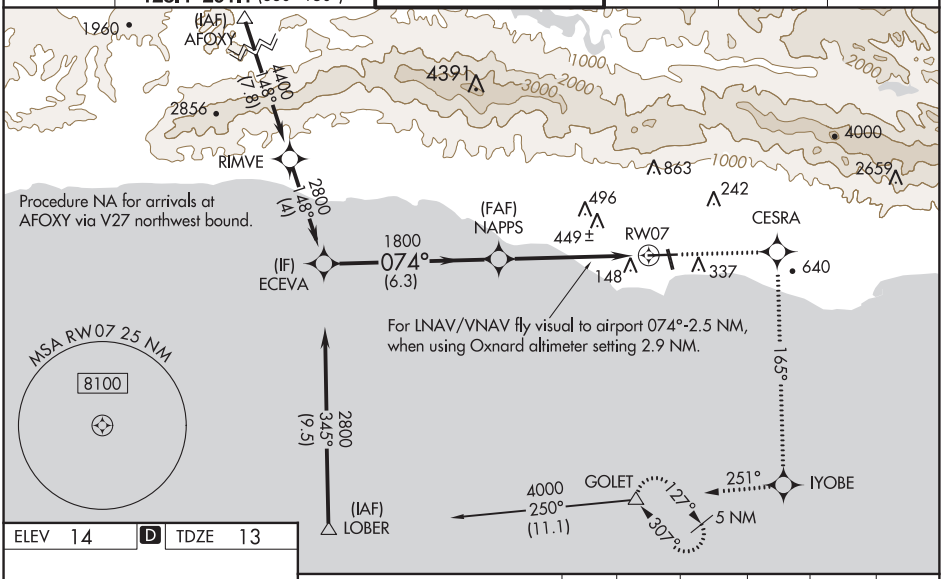
SANTA BARBARA MUNI (SBA)

DME/DME RNP -0.3 NA. Inoperative table does not apply to LNAV/VNAV.
For inoperative MALSR when using Oxnard altimeter setting, increase LPV all Cats visibility to 1½ , and LNAV Cat C to 1¾ , Cat D to 2. For inoperative MALSR, increase LPV all Cats visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). Baro-VNAV NA when using Oxnard altimeter setting. When local altimeter setting not received, use Oxnard altimeter setting and increase all DAs/MDAs 100 feet, and increase, LNAV/VNAV visibility Cat C and D ¼ mile, LNAV Cat C to RVR 6000, Cat D ¼ mile, Circling Cat A visibility ¼ mile, Cat C visibility ½ mile. VDP NA when using Oxnard altimeter setting. Night landing Rwy 15R NA.

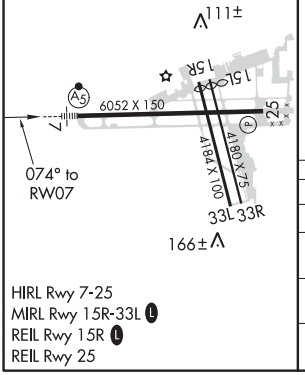
MALSR

MISSED APPROACH: Climb to 4000 direct CESRA and right turn via 165° track to IYOBE and right turn via 251° track to GOLET and hold, continue climb-in-hold to 4000.

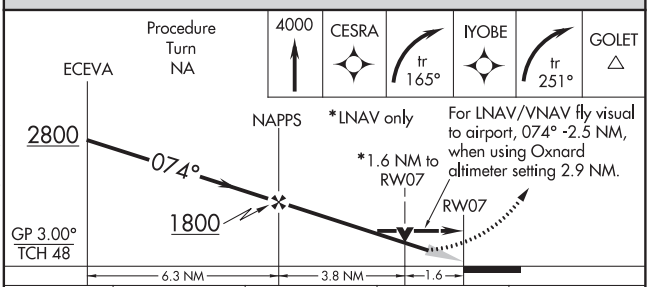
ATIS	SANTA BARBARA APP CON	SANTA BARBARA TOWER*	GND CON	CLNC DEL	UNICOM
132.65	120.55 319.15 (151°-329°) 125.4 291.1 (330°-150°)	119.7 (CTAF) L 254.35	121.7	132.9	122.95



ELEV 14 | D | TDZE 13



HIRL Rwy 7-25
MIRL Rwy 15R-33L L
REIL Rwy 15R L
REIL Rwy 25



CATEGORY	A	B	C	D
LPV DA	380/40 367 (400-¾)			
LNAV/VNAV DA	866-2 853 (900-2)		866-2½ 853 (900-2½)	866-2¾ 853 (900-2¾)
LNAV MDA	560/24 547 (600-½)		560/50 547 (600-1)	560/60 547 (600-1¼)
CIRCLING	800-1 786 (800-1)	800-1¼ 786 (800-1¼)	800-2¼ 786 (800-2¼)	1000-3 986 (1000-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VOR or GPS RWY 25

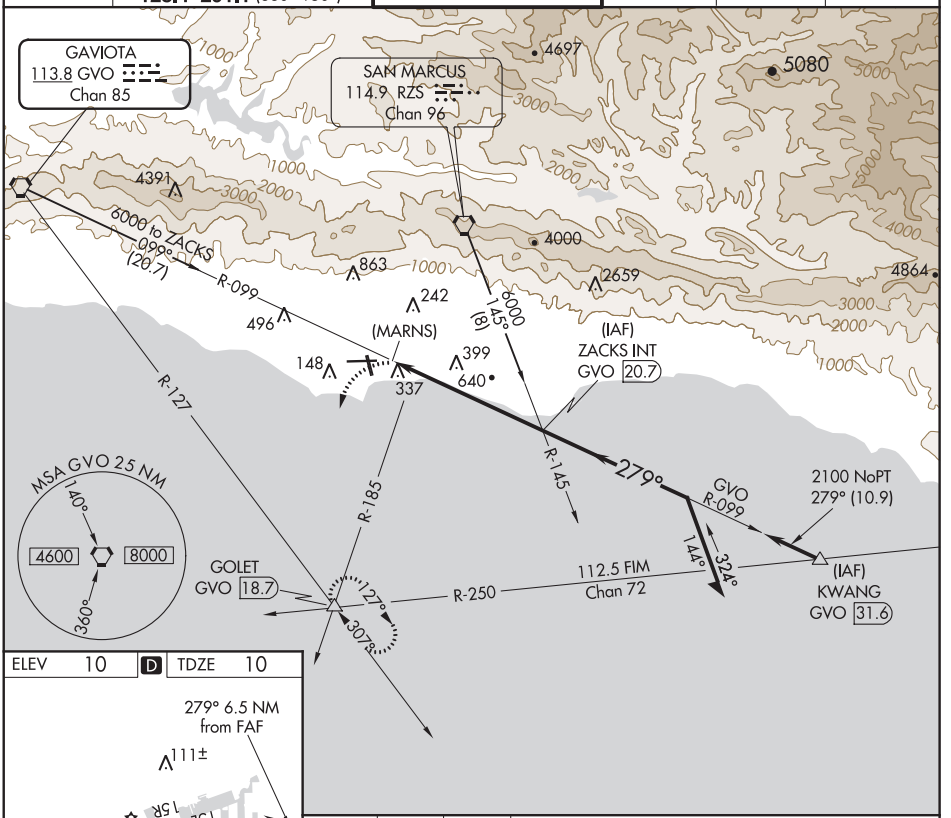
SANTA BARBARA MUNI (SBA)

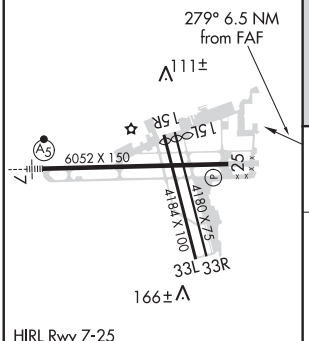
VORTAC GVO 113.8 Chan 85	APP CRS 279°	Rwy Idg 6052 TDZE 10 Apt Elev 10

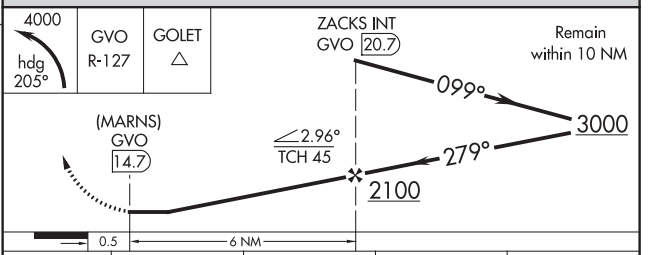
Night landing Rwy 15R NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter not received, use Oxnard altimeter setting and increase all MDA 100 feet and all Cats B and C visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4000 via heading 205° and GVO R-127 to GOLET Int and hold.

ATIS	SANTA BARBARA APP CON	SANTA BARBARA TOWER★	GND CON	CLNC DEL	UNICOM
132.65	120.55 319.15 (151°-329°) 125.4 291.1 (330°-150°)	119.7 (CTAF) L 254.35	121.7	132.9	122.95







HIRL Rwy 7-25
MIRL Rwy 15R-33L L
REIL Rwy 15R L
REIL Rwy 25

FAF to MAP 6 NM

Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

CATEGORY	A	B	C	D
S-25	920-1¼ 910 (1000-1¼)		920-2¾ 910 (1000-2¾)	920-3 910 (1000-3)
CIRCLING	920-1¼ 910 (1000-1¼)		920-2¾ 910 (1000-2¾)	960-3 950 (1000-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 06 NOV 2020 to 31 DEC 2020

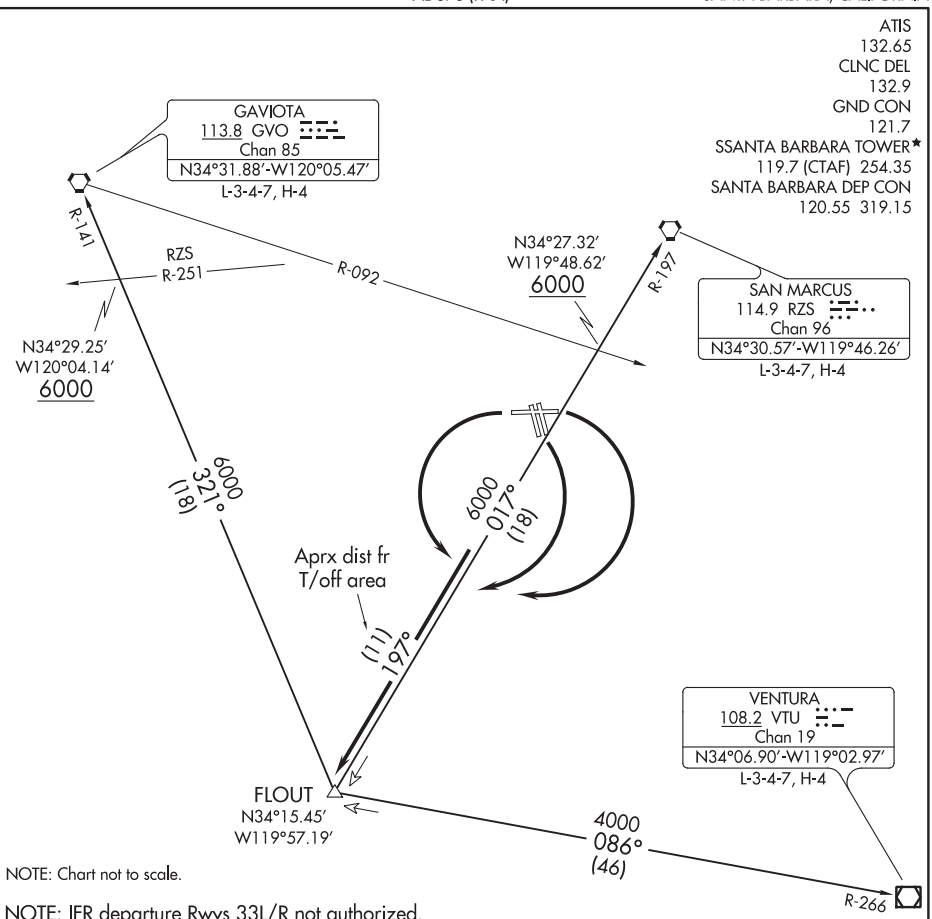
SW-3, 05 NOV 2020 to 31 DEC 2020

(FLOUT5.FLOUT) 18032

FLOUT FIVE DEPARTURE

AL-378 (FAA)

SANTA BARBARA MUNI (SBA)
SANTA BARBARA, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7 and 15L/R: Turn right, thence. . . .

TAKEOFF RUNWAY 25: Turn left, thence. . . .

. . . .intercept and proceed via RZS R-197 to FLOUT INT. Thence via (transition or assigned route.)

GAVIOTA TRANSITION (FLOUT5.GVO): From over FLOUT INT via GVO R-141 to GVO VORTAC. Cross RZS R-251 at or above 6000'.

SAN MARCUS TRANSITION (FLOUT5.RZS): From over FLOUT INT via RZS R-197 to RZS VORTAC. Cross GVO R-092 at or above 6000'.

VENTURA TRANSITION (FLOUT5.VTU): From over FLOUT INT via VTU R-266 to VTU VOR/DME.

SW-3, 05 NOV 2020 to 31 DEC 2020

ATIS
132.65
CLNC DEL
132.9
GND CON
121.7
SANTA BARBARA TOWER★
119.7 254.35
SANTA BARBARA DEP CON
120.55 319.15
TOP ALTITUDE:
ASSIGNED BY ATC
MORRO BAY
MQO
317°
(34)
*6000
*4100
SPEEK
*6000
*4200
308°
(12)
GAUCH
6000
320°
(11)
331°
(19)
GRRRR
255°
(12)
GRPES
520
255°
075°
520
152°
520
OHSHN
210K
CORRK
254°
(12)
KNNZI
N
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RUNWAY 7: Climb on heading 075° to 520, then right turn direct OHSHN, then right turn direct CORRK, then on track 254° to KNNZI, then on track 331° to cross GAUCH at or above 6000, thence . . . .
TAKEOFF RUNWAYS 15L/R: Climb on heading 152° to 520, then right turn direct CORRK, then on track 254° to KNNZI, then on track 331° to cross GAUCH at or above 6000, thence . . . .
TAKEOFF RUNWAY 25: Climb on heading 255° to 520, then direct GRPES, then on track 255° to GRRRR, then on track 320° to cross GAUCH at or above 6000, thence . . . .
. . . .on (transition). Maintain ATC assigned altitude. Expect final altitude 10 minutes after departure.
MORRO BAY TRANSITION (GAUCH2.MQO)
TAKEOFF MINIMUMS
Rwys 7, 15L/R, 25: Standard with a minimum climb of 500' per NM to 520.
Rwys 33L/R: NA-ATC.
NOTE: RNAV-1.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: DME/DME/IRU or GPS required.
NOTE: Rwy 33L/R - IFR Departures NA.
NOTE: For non GPS-equipped aircraft departing Rwys 15L/R, RZS and GVO DMEs must be operational.
NOTE: For non GPS-equipped aircraft departing Rwy 7, GVO DME must be operational.
NOTE: Chart not to scale.

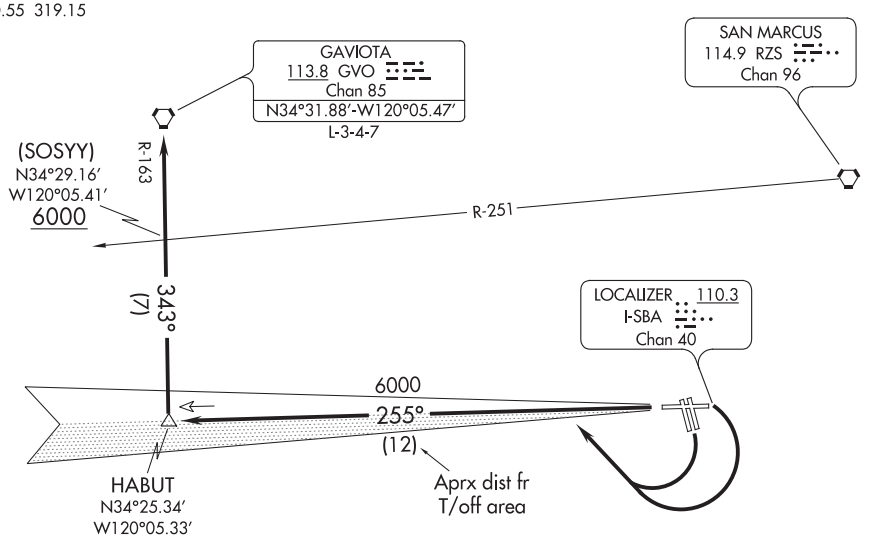
(HABUT4.GVO) 18032

HABUT FOUR DEPARTURE

AL-378 (FAA)

SANTA BARBARA MUNI (SBA)
SANTA BARBARA, CALIFORNIA

ATIS
132.65
CLNC DEL
132.9
GND CON
121.7
SANTA BARBARA TOWER ★
119.7 (CTAF) 254.35
SANTA BARBARA DEP CON
120.55 319.15



NOTE: IFR departure Rwys 33L/R not authorized.

NOTE: Minimum (ATC) climb of 385' per NM to 6000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7 and 15L/R: Turn right, intercept I-SBA west course to HABUT INT, thence via GVO R-163 to GVO VORTAC. Cross RZS R-251 at or above 6000'.

TAKEOFF RUNWAY 25: Intercept I-SBA west course to HABUT INT, thence via GVO R-163 to GVO VORTAC. Cross RZS R-251 at or above 6000'.

SW-3, 05 NOV 2020 to 31 DEC 2020

ATIS 132.65
CLNC DEL 132.9
GND CON 121.7
SANTA BARBARA TOWER★ 119.7 (CTAF) 254.35
SANTA BARBARA DEP CON 120.55 319.15
FILLMORE 112.5 FIM Chan 72
GINNA N34°13.38' W118°49.92' L-3-4-7
HENER N34°19.86' W119°13.66' L-3-4-7
CAMARILLO 115.8 CMA Chan 105 N34°12.75-W119°05.66'
VENTURA 108.2 VTU Chan 19
SAN MARCUS 114.9 RZS Chan 96 N34°30.57'-W119°46.26' L-3-4-7, H-4
GAVIOTA 113.8 GVO Chan 85
KWANG N34°18.55' W119°30.85'
N34°24.59' W119°38.58' 6000
R-119
R-092
R-099
099°
6000 299° (18)
5000 070° (14)
4000 091° (22)
072° (13)
R-250
R-311
R-271
R-282
V27
17
32
32
N
TAKEOFF MINIMUMS
Rwys 33L/R: NA.
Rwys 15L/R, 25: Standard.
Rwy 7: Standard with a minimum climb of 280' per NM to 1200.
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RUNWAY 7: Climbing right turn to intercept GVO VORTAC R-099 to KWANG INT thence. . . .
TAKEOFF RUNWAYS 15L/R and 25: Climbing left turn to intercept GVO VORTAC R-099 to KWANG INT thence. . . .
. . . .via (transition) or (assigned route).
HENER TRANSITION (KWANG5.HENER): From over KWANG INT via FIM R-250 to HENER INT.
SAN MARCUS TRANSITION (KWANG5.RZS): From over KWANG INT via RZS R-119 to RZS VORTAC. Cross GVO R-092 at or above 6000'.
GINNA TRANSITION (KWANG5.GINNA): From over KWANG INT via CMA R-271 to CMA VOR/DME then via CMA R-072 to GINNA.
NOTE: IFR departure Rwys 33L/R not authorized.
NOTE: Chart not to scale.

ATIS 132.65
CLNC DEL 132.9
GND CON 121.7
SANTA BARBARA TOWER★ 119.7 254.35
SANTA BARBARA DEP CON 120.55 319.15

NOTE: Rwy 7: Do not exceed 210K until established direct MISHN.
NOTE: For non-GPS equipped aircraft on NNAVY TRANSITION, TNP DME must be operational.
NOTE: RNAV-1.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojets and turboprops only.
NOTE: KPTIN TRANSITON restricted to aircraft landing KLAX and KHHR.

TAKEOFF MINIMUMS
Rwys 33L/R: NA, ATC.
Rwys 7, 15L/R, 25: Standard with a minimum climb of 500' per NM to 520.

TOP ALTITUDE: 8000

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb on heading 075° to 520, then turn right direct MISHN, thence . . . .

TAKEOFF RUNWAYS 15L/R: Climb on heading 152° to 520, then direct EDDEN, then on track 079° to MISHN, thence . . . .

TAKEOFF RUNWAY 25: Climb on heading 255° to intercept course 175° to SRRRA, then on track 121° to EDDEN, then on track 079° to MISHN, thence . . . .

. . . .on (transition). Maintain 8000. Expect final altitude 10 minutes after departure.

BOILE TRANSITION (MISHN3.BOILE)

KPTIN TRANSITION (MISHN3.KPTIN)

NNAVY TRANSITION (MISHN3.NNAVY)

TOP ALTITUDE: 3000
ATIS 132.65
CLNC DEL 132.9
GND CON 121.7
SANTA BARBARA TOWER ★ 119.7 (CTAF) 254.35
SANTA BARBARA DEP CON 120.55 319.15
LAKE HUGHES 114.35 LHS Chan 90 (Y) N34°40.98′ W118°34.62′ L-3-4-7
PALMDALE 114.5 PMD Chan 92 N34°37.88′ W118°03.83′ L-3-4-7, H-4
VAN NUYS 113.1 VNY Chan 78 N34°13.41′ W118°29.50′ L-3-4-7
SANTA CATALINA 111.4 SXC Chan 51 N33°22.50′ W118°25.19′ L-3-4, H-4
SHAFTER 115.4 EHF Chan 101 N35°29.07′-W119°05.84′ L-3-7, H-4
GORMAN 116.1 GMN Chan 108 N34°48.24′-W118°51.68′ L-3-4-7, H-4
FILLMORE 112.5 FIM Chan 72 N34°21.40′-W118°52.88′ L-3-4-7, H-4
AVENAL 117.1 AVE Chan 118 N35°38.82′-W119°58.72′ L-3-7, H-4
FELLOWS 117.5 FLW Chan 122 N35°05.59′-W119°51.93′ L-3-7, H-4
SAN MARCUS 114.9 RZS Chan 96 N34°30.57′-W119°46.26′ L-3-4-7, H-4
DEANO N34°19.00′ W119°24.99′ L-3-4-7
HENER N34°19.86′ W119°13.66′ L-3-4-7
KWANG N34°18.55′ W119°30.85′ L-3-4-7
CAMARILLO 115.8 CMA Chan 105 N34°12.75-W119°05.66′ L-3-4-7
VENTURA 108.2 VTU Chan 19 N34°06.90′-W119°02.97′ L-3-4-7, H-4
PASO ROBLES 114.3 PRB Chan 90 N35°40.35′ W120°37.63′ L-3-7
MORRO BAY 112.4 MQO Chan 71 N35°15.14′ W120°45.57′ L-3-7, H-4
GAVIOTA 113.8 GVO Chan 85 N34°31.88′-W120°05.47′ L-3-4-7, H-4
HABUT N34°25.34′ W120°05.33′ L-3-4-7
R-2534A
R-2534B
255°
075°
152°
120°
200°
200°
500
500
N
TAKEOFF MINIMUMS
Rwys 33L/R: NA-ATC.
Rwys 15L/R, 25: Standard.
Rwy 7: Standard with minimum climb of 260′ per NM to 1100.
NOTE: This DP to be used only when assigned by ATC.
NOTE: RADAR required.
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

SOUTH OR EAST ROUTE OF FLIGHT:

TAKEOFF RUNWAY 7: Climb heading 075° to 500, then climbing right turn on heading 120°. Thence. . . .

TAKEOFF RUNWAYS 15L/15R: Climb heading 152°. Thence. . . .

TAKEOFF RUNWAY 25: Climb heading 255°. Thence. . . .

. . . .On RADAR vectors, maintain 3000. Expect further clearance to filed altitude 5 minutes after departure.

NORTH OR WEST ROUTE OF FLIGHT:

TAKEOFF RUNWAY 7: Climb heading 075° to 500, then climbing right turn on heading 200°. Thence. . . .

TAKEOFF RUNWAYS 15L/R: Climb heading 152° to 500, then climbing right turn on heading 200°. Thence. . . .

TAKEOFF RUNWAY 25: Climb heading 255°. Thence. . . .

. . . .On RADAR vectors, maintain 3000. Expect further clearance to filed altitude 5 minutes after departure.

SW-3, 05 NOV 2020 to 31 DEC 2020

LOC/DME I-SMX	APP CRS	Rwy Idg 8004
108.9 Chan 26	120°	TDZE 230 Apt Elev 261

ILS or LOC RWY 12

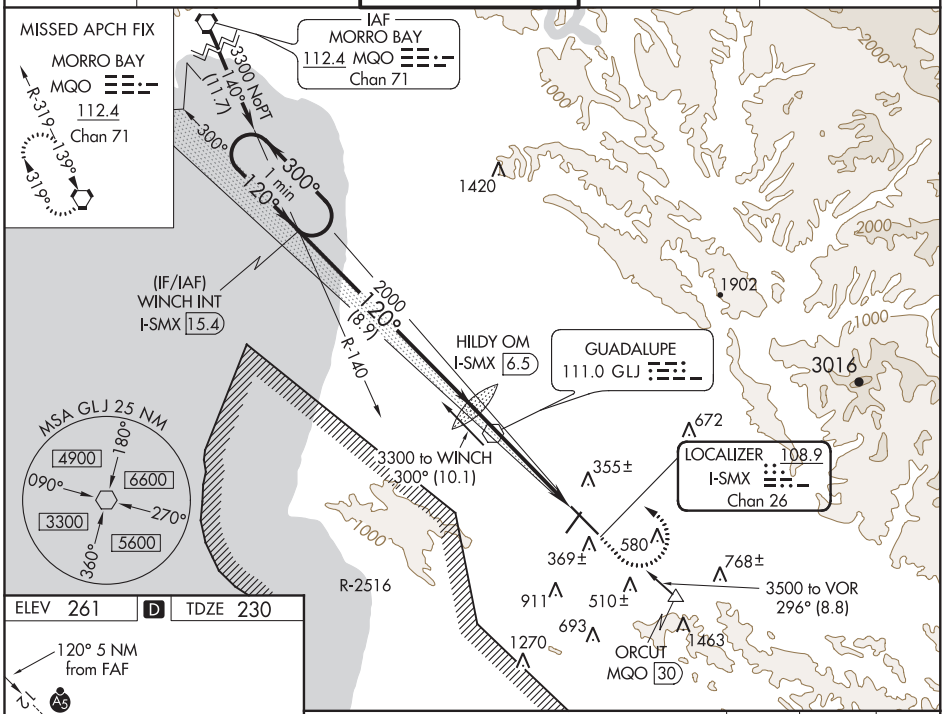
SANTA MARIA PUBLIC/CAPTAIN G ALLAN HANCOCK FIELD (SMX)

T A Night Landing: Rwy 2 NA. VDP NA with Vandenberg altimeter setting. When local altimeter setting not received, use Vandenberg altimeter setting and increase all DA 43 feet, and all MDA 60 feet, increase S-LOC 12 Cat C/D visibility to RVR 5500 and Circling Cat C visibility to 1¾. For inop MALSR, increase S-LOC 12 Cat C/D visibility to 1⅜ mile.
RVR 1800 authorized with the use of FD or AP or HUD to DA.

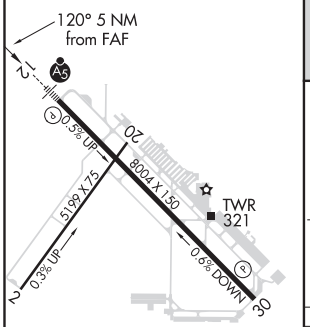
MALSR

MISSED APPROACH: Climb to 800, then climbing left turn to 5000 direct MQO VORTAC and hold.

ATIS	SANTA BARBARA APP CON★	SANTA MARIA TOWER★	GND CON	UNICOM
121.15	124.15 327.8	118.3 (CTAF) L 239.25	121.9	122.95

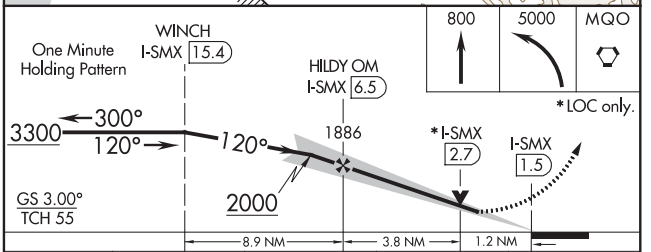


ELEV 261	D	TDZE 230



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-ILS 12#	430/24 200 (200-½)			
S-LOC 12	680/24 450 (500-½)		680/50 450 (500-1)	
CIRCLING	860-1 599 (600-1)		860-1½ 599 (600-1½)	1320-3 1059 (1100-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 12

SANTA MARIA PUBLIC/CAPTAIN G ALLAN HANCOCK FIELD (SMX)

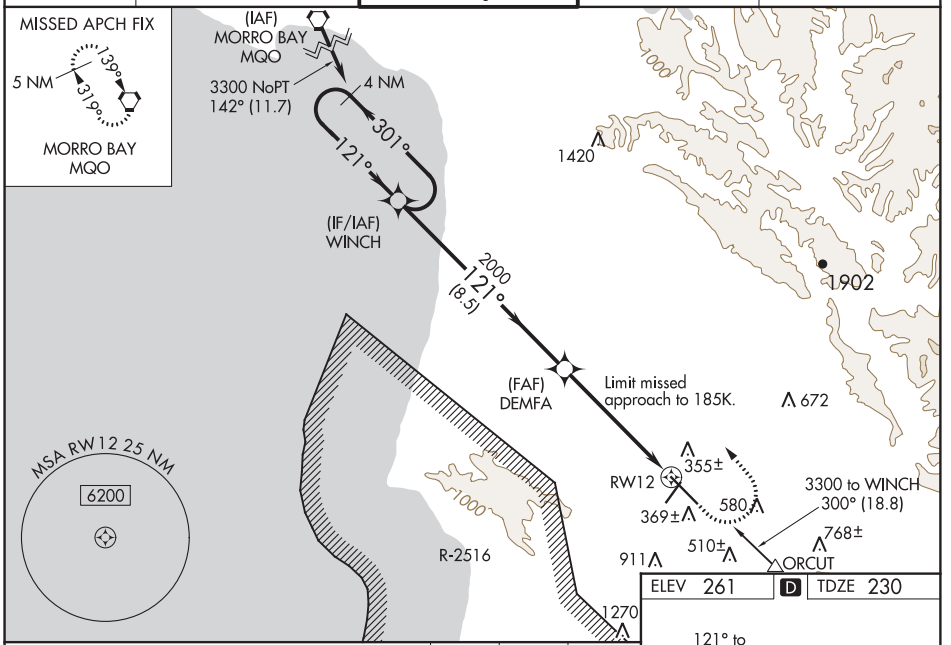
WAAS	APP CRS	Rwy Idg	8004
CH 77927	121°	TDZE	230
W12A		Apt Elev	261

T A Circling Rwy 2 NA at night. Baro-VNAV NA when using Vandenberg altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 42°C (107°F). DME/DME RNP-0.3 NA. VDP NA with Vandenberg altimeter setting. When local altimeter setting not received use Vandenberg altimeter setting and increase all DA 43 feet and all MDAs 60 feet. Increase LNAV/VNAV all Cats visibility to RVR 4000, and increase Circling Cat C visibility to 1¾ mile. For inop MALSR, increase LNAV Cat C/D visibility to 1⅜ mile. #RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using Vandenberg altimeter setting.

MALSR

MISSED APPROACH: Climb to 800 then climbing left turn to 5000 direct MQO VORTAC and hold.

ATIS	SANTA BARBARA APP CON★	SANTA MARIA TOWER★	GND CON	UNICOM
121.15	124.15 327.8	118.3 (CTAF) 239.25	121.9	122.95



CATEGORY	A	B	C	D
LPV DA#	430/24 200 (200-½)			
LNAV/VNAV DA	563/32 333 (400-⅝)			
LNAV MDA	680/24 450 (500-½)		680/50 450 (500-1)	
CIRCLING	860-1 599 (600-1)		860-1½ 599 (600-1½)	1320-3 1059 (1100-3)

HIRL Rwy 12-30 L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	8004
316°	TDZE	261
	Apt Elev	261

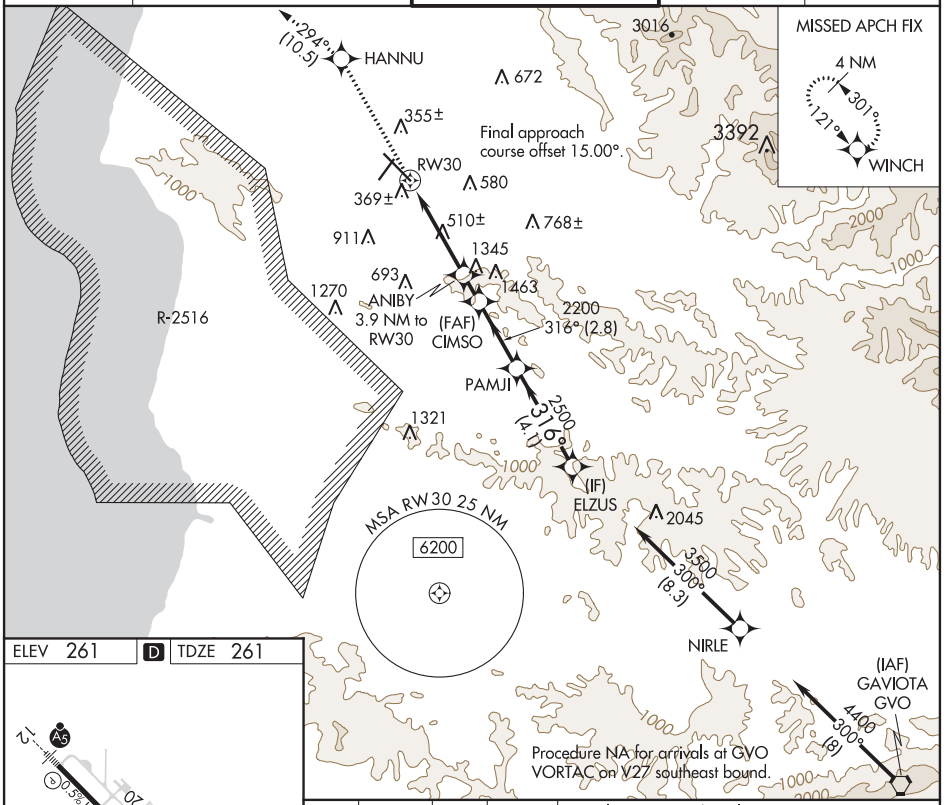
RNAV (GPS) RWY 30

SANTA MARIA PUBLIC/CAPTAIN G ALLAN HANCOCK FIELD (SMX)

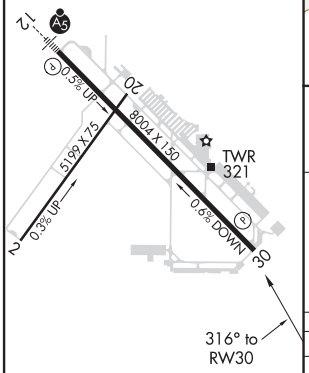
T A DME/DME RNP-0.3 NA. When local altimeter setting not received, use San Luis County Rgnl altimeter setting and increase all MDA 60 feet. Rwy 30 helicopter visibility reduction below 1 SM NA. Straight-in Rwy 30 NA at night, Circling Rwy 2, 30 NA at night.

MISSED APPROACH: Climb to 4000 direct HANNU and on track 294° to WINCH and hold.

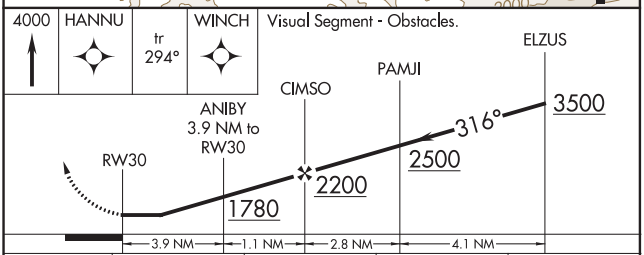
ATIS	SANTA BARBARA APP CON ★	SANTA MARIA TOWER ★	GND CON	UNICOM
121.15	124.15 327.8	118.3 (CTAF) 239.25	121.9	122.95



ELEV 261 D TDZ 261



HIRL Rwy 12-30 L



CATEGORY	A	B	C	D
LNAV MDA	1600-1¼ 1339 (1400-1¼)	1600-1½ 1339 (1400-1½)	1600-3 1339 (1400-3)	NA
CIRCLING	1600-1¼ 1339 (1400-1¼)	1600-1½ 1339 (1400-1½)	1600-3 1339 (1400-3)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020

SANTA MARIA, CALIFORNIA | AL-379 (FAA) | 20310

LOC/DME I-SMX	APP CRS	Rwy Idg	N/A
108.9	300°	TDZE	N/A
Chan 26		Apt Elev	261

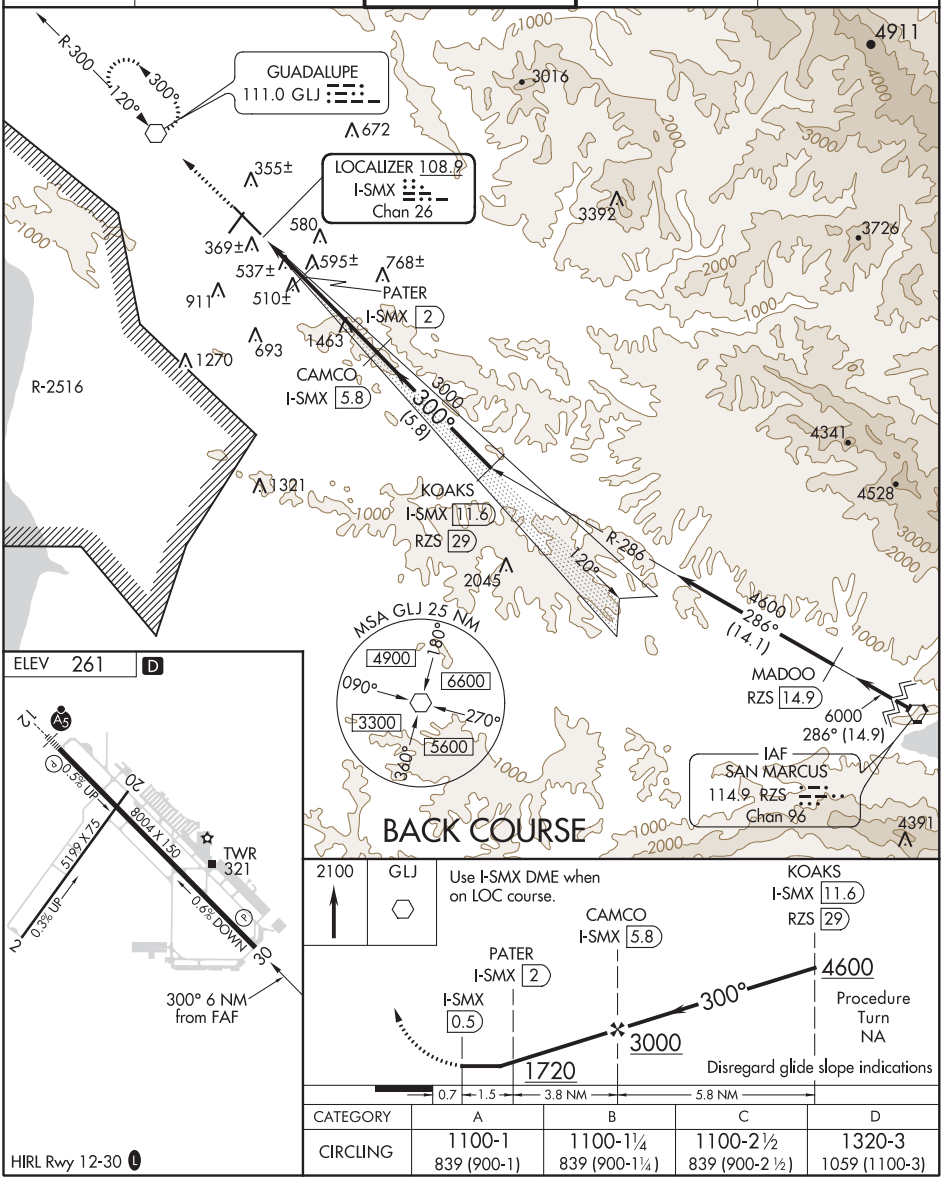
LOC/DME BC-A

SANTA MARIA PUBLIC/CAPTAIN G ALLAN HANCOCK FIELD (SMX)

Circling to Rwy 2 NA at night.
Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2100 direct GLJ VOR and hold.

ATIS	SANTA BARBARA APP CON★	SANTA MARIA TOWER★	GND CON	UNICOM
121.15	124.15 327.8	118.3 (CTAF) 239.25	121.9	122.95



CATEGORY	A	B	C	D
CIRCLING	1100-1 839 (900-1)	1100-1¼ 839 (900-1¼)	1100-2½ 839 (900-2½)	1320-3 1059 (1100-3)

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

VOR GLJ	APP CRS	Rwy Idg	8004
111.0	117°	TDZE	230
		Apt Elev	261

VOR RWY 12

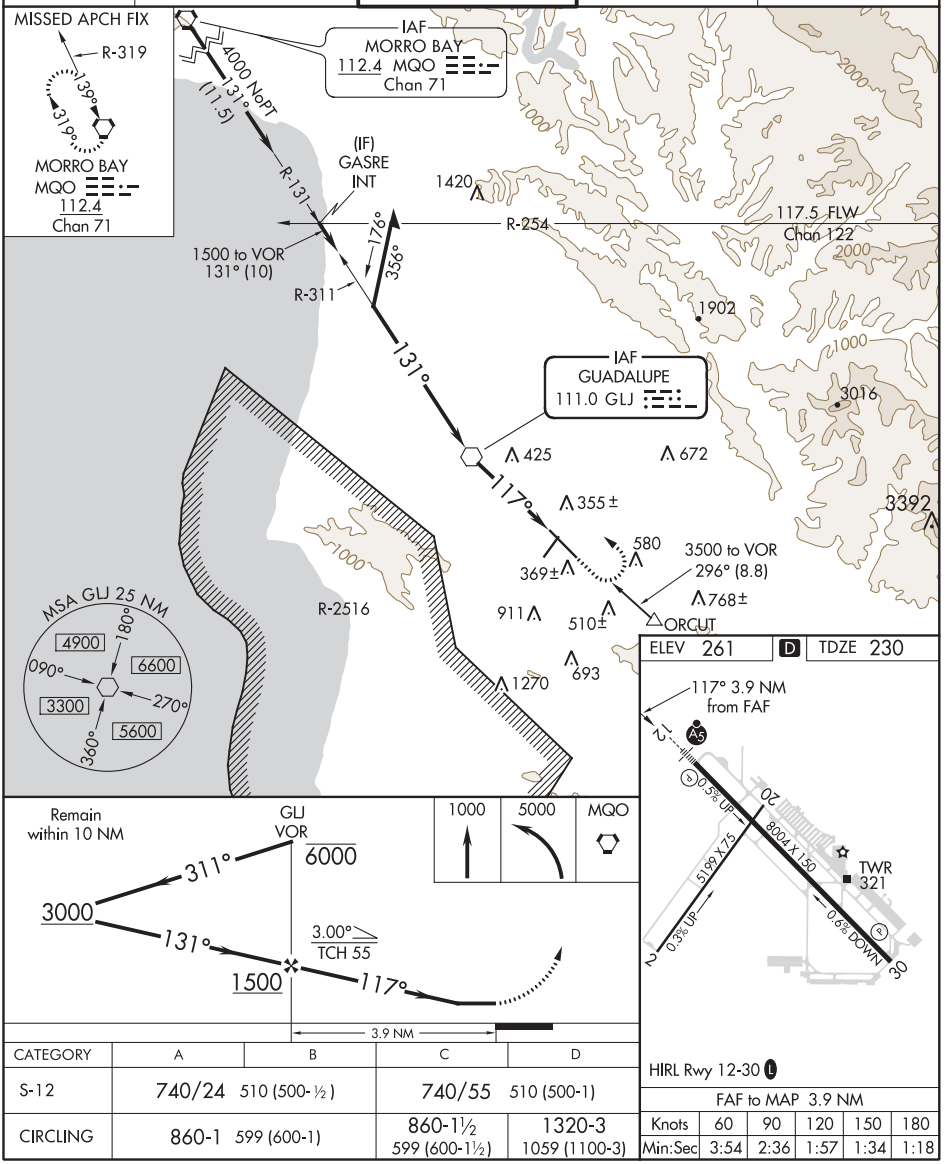
SANTA MARIA PUBLIC/CAPTAIN G ALLAN HANCOCK FIELD (SMX)

T A When local altimeter setting not received, use Vandenberg altimeter setting and increase all MDA 60 feet. Increase S-12 Cat C/D visibility and Circling Cat C visibility ¼ mile. For inop MALSR when using Vandenberg altimeter setting, increase S-12 Cat C/D visibility to 1⅝ miles. Night Landing Rwy 2 NA.

MALSR A5

MISSED APPROACH: Climb to 1000 then climbing left turn to 5000 direct MQO VORTAC and hold.

ATIS	SANTA BARBARA APP CON★	SANTA MARIA TOWER★	GND CON	UNICOM
121.15	124.15 327.8	118.3 (CTAF) L 239.25	121.9	122.95



CATEGORY	A	B	C	D
S-12	740/24	510 (500-½)	740/55	510 (500-1)
CIRCLING	860-1	599 (600-1)	860-1½	1320-3
			599 (600-1½)	1059 (1100-3)

FAF to MAP 3.9 NM

Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18

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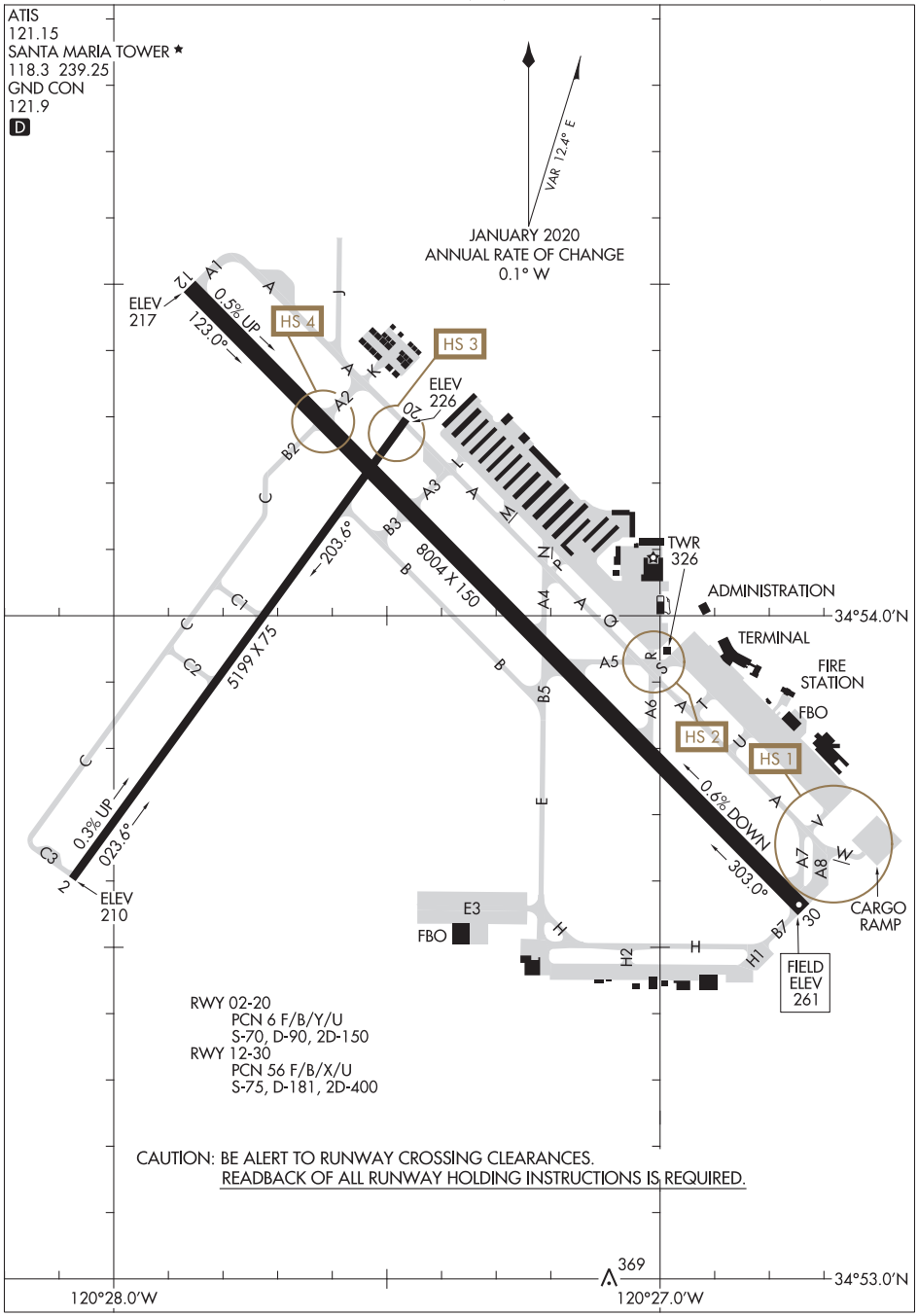
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM — SANTA MARIA PUBLIC/CAPTAIN G ALLAN HANCOCK FIELD (SMX)

AL-379 (FAA) — SANTA MARIA, CALIFORNIA



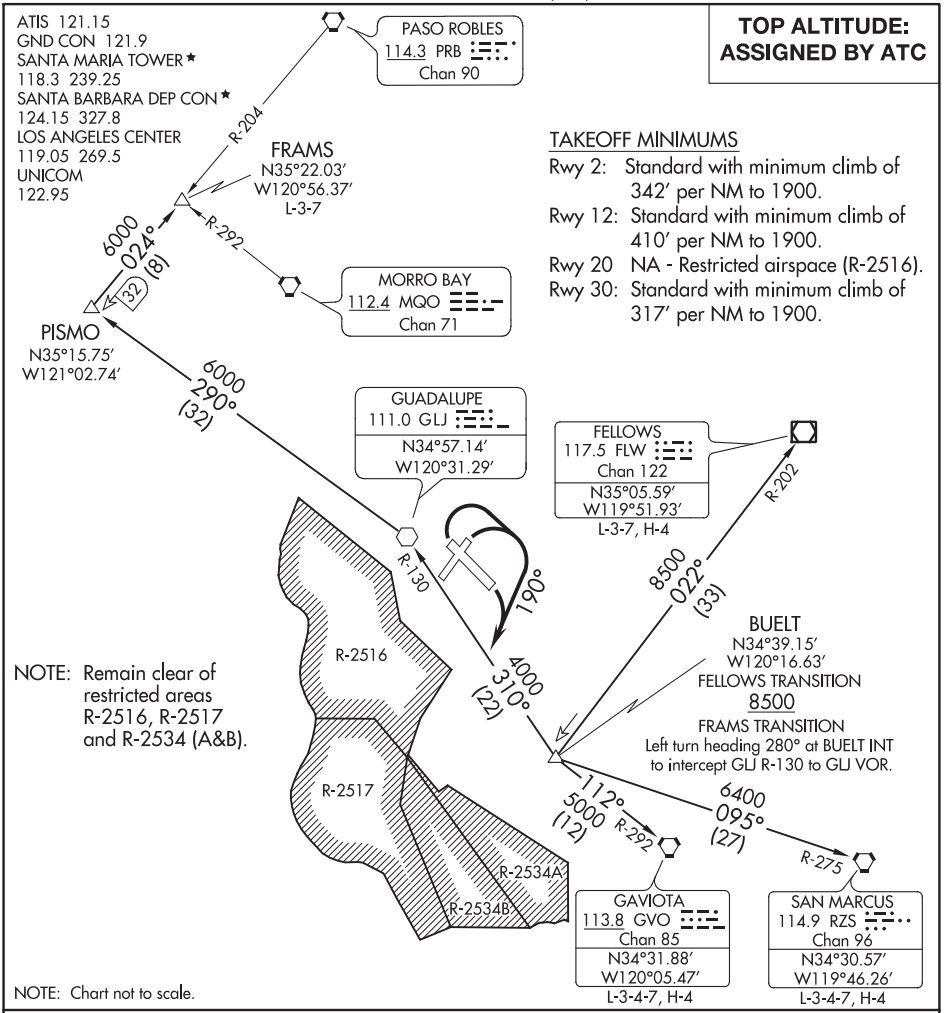
AIRPORT DIAGRAM — SANTA MARIA PUBLIC/CAPTAIN G ALLAN HANCOCK FIELD (SMX)

SANTA MARIA, CALIFORNIA

20086

SW-3, 05 NOV 2020 to 31 DEC 2020

BUELT FOUR DEPARTURE



TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS

Rwy 2: Standard with minimum climb of 342′ per NM to 1900.
Rwy 12: Standard with minimum climb of 410′ per NM to 1900.
Rwy 20 NA - Restricted airspace (R-2516).
Rwy 30: Standard with minimum climb of 317′ per NM to 1900.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 2, 12, 30: Climbing right turn heading 190° to intercept GLJ R-130 to BUELT.

FELLOWS TRANSITION (BUELT4.FLW): From over BUELT INT on FLW R-202 to FLW VOR/DME.

FRAMS TRANSITION (BUELT4.FRAMS): Left turn heading 280° at BUELT INT to intercept GLJ R-130 to GLJ VOR, then on GLJ R-290 to PISMO INT, then on PRB R-204 to FRAMS INT.

GAVIOTA TRANSITION (BUELT4.GVO): From over BUELT INT on GVO R-292 to GVO VORTAC.

SAN MARCUS TRANSITION (BUELT4.RZS): From over BUELT INT on RZS R-275 to RZS VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020
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SANTA MONICA, CALIFORNIA | AL-5023 (FAA) | 18312

RNAV (GPS) RWY 21

SANTA MONICA MUNI (SMO)

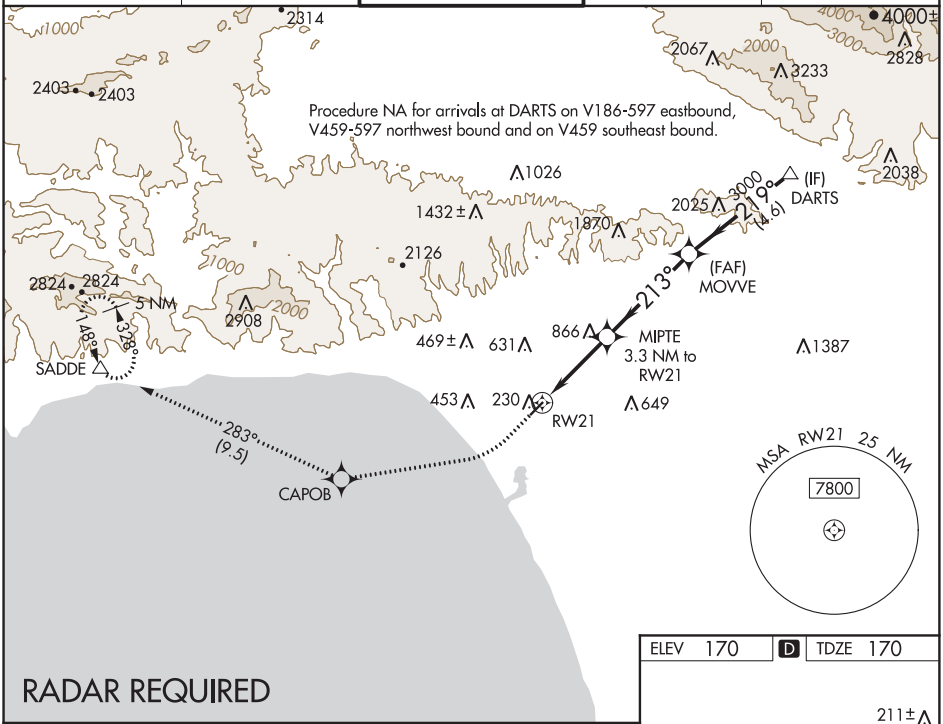
WAAS CH 90339 W21A	APP CRS 213°	Rwy Idg 3500 / TDZE 170 / Apt Elev 170

RNP APCH.

T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 14°C (58°F). Rwy 21 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 600 then climbing right turn to 5000 direct CAPOB and on track 283° to SADDE and hold, continue climb-in-hold to 5000.

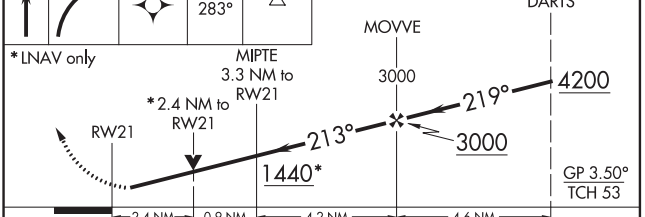
ATIS	SOCAL APP CON	SANTA MONICA TOWER*	GND CON	UNICOM
119.15	128.5 235.975	120.1 (CTAF) L 257.8	121.9	122.95



600	5000	CAPOB	tr 283°	SADDE

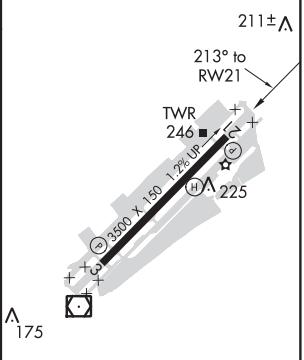
*LNAV only

VGSI and RNAV glidepath not coincident (VGSI Angle 3.50/TCH 45).



CATEGORY	A	B	C	D
LPV DA	440-1 270 (300-1)			
LNAV/VNAV DA	685-1⅜ 515 (600-1⅜)			
LNAV MDA	1120-1¼ 950 (1000-1¼)		1120-2½ 950 (1000-2½)	

ELEV 170 | D | TDZE 170



MIRL Rwy 3-21 L
REIL Rwy 21 L

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) Y RWY 3

SANTA MONICA MUNI (SMO)

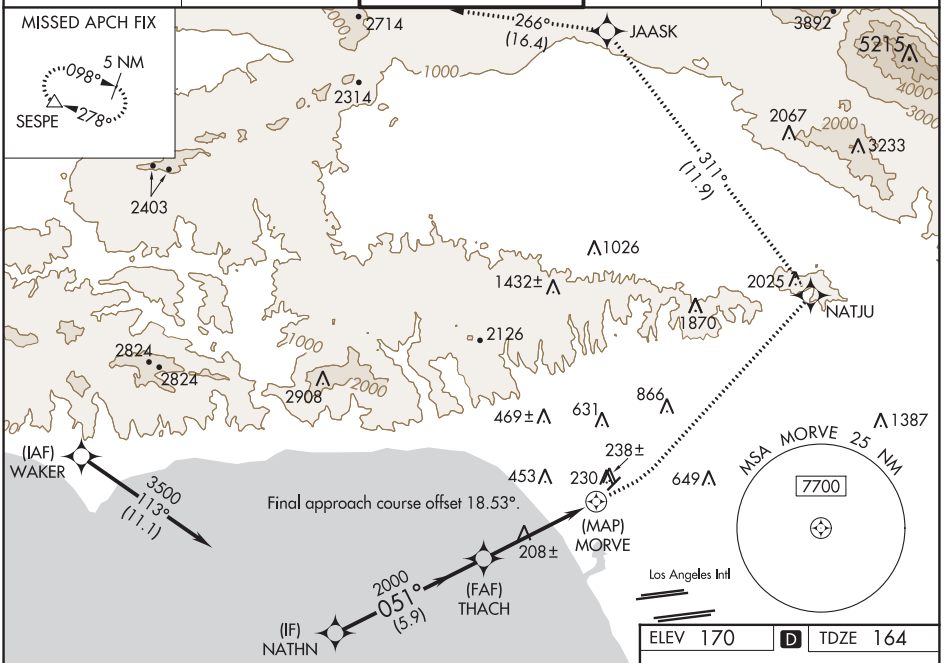
WAAS CH 50339 W03A	APP CRS 051°	Rwy Idg 3500 TDZE 164 Apt Elev 170

RNP APCH.

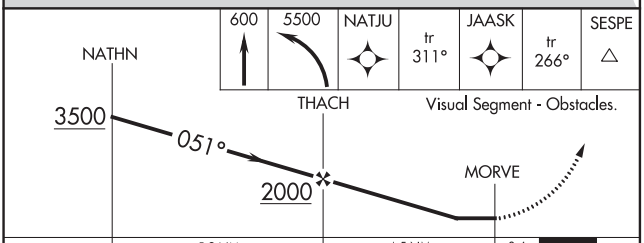
Rwy 3 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 600 then climbing left turn to 5500 direct NATJU and track 311° to JAASK and track 266° to SESPE and hold.
*Missed approach requires minimum climb of 300 feet per NM to 2400.

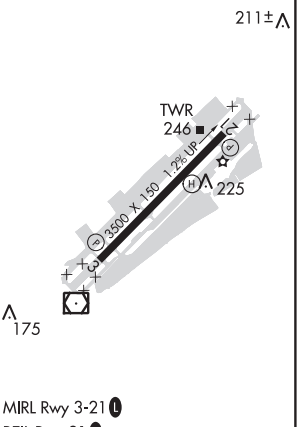
ATIS	SOCAL APP CON	SANTA MONICA TOWER*	GND CON	UNICOM
119.15	128.5 235.975	120.1 (CTAF) L 257.8	121.9	122.95



ELEV 170 D TDZE 164



CATEGORY	A	B	C	D
LP MDA*	460-1 296 (300-1)			
LP MDA	920-1 756 (800-1)	920-1¼ 756 (800-1¼)	920-2½ 756 (800-2½)	
LNAV MDA*	500-1 336 (400-1)	500-1¼ 336 (400-1¼)	500-2½ 336 (400-2½)	
LNAV MDA	1020-1 856 (900-1)	1020-1¼ 856 (900-1¼)	1020-2½ 856 (900-2½)	



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SANTA MONICA, CALIFORNIA | AL-5023 (FAA) | 18312

RNAV (GPS) Z RWY 3

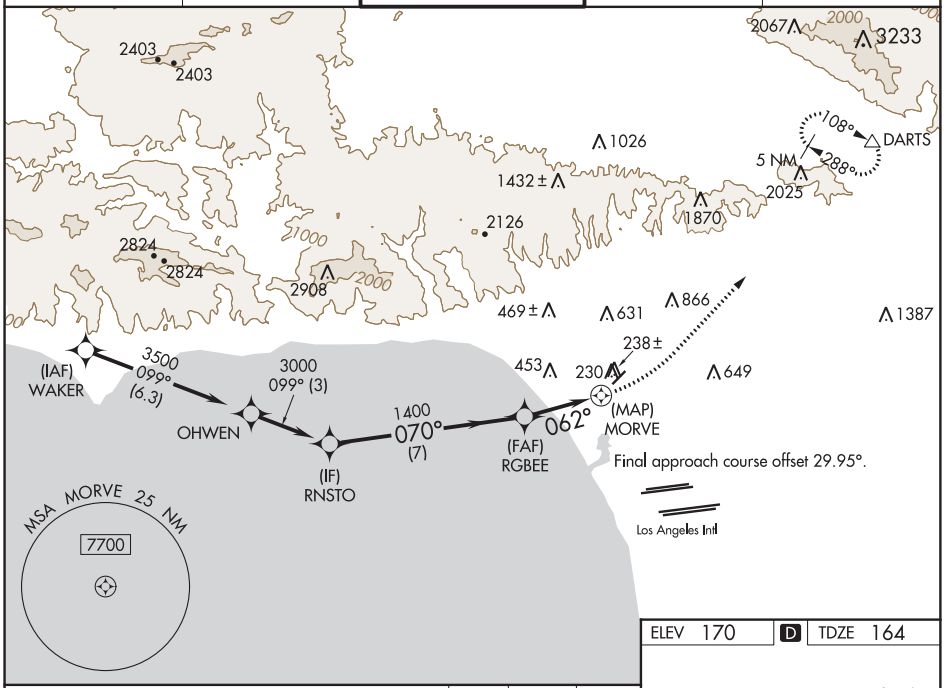
SANTA MONICA MUNI (SMO)

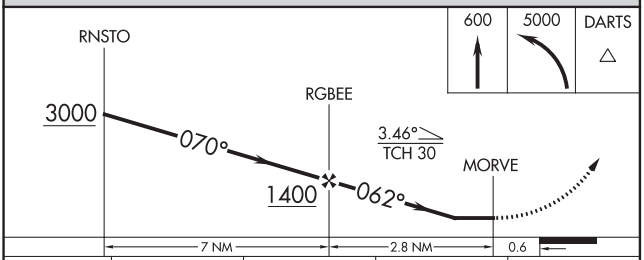
WAAS	APP CRS	Rwy Idg	3500
CH 77839	062°	TDZE	164
W03B		Apt Elev	170

Rwy 3 helicopter visibility reduction below 1 SM NA.
DME/DME RNP-0.3 NA.

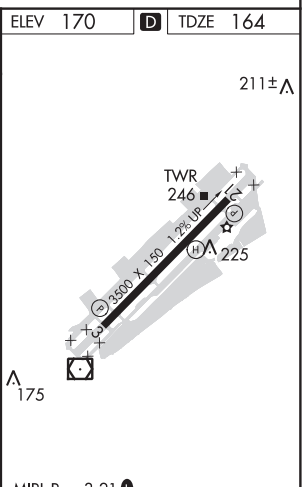
MISSED APPROACH: Climb to 600 then climbing left turn to 5000 direct DARTS and hold, do not exceed 175K when continuing climb-in-hold to 5000.
*Missed approach requires minimum climb of 290 feet per NM to 3800.

ATIS	SOCAL APP CON	SANTA MONICA TOWER*	GND CON	UNICOM
119.15	128.5 235.975	120.1 (CTAF) L 257.8	121.9	122.95





CATEGORY	A	B	C	D
LP MDA*	460-1 296 (300-1)		NA	
LP MDA	1260-1¼ 1096 (1100-1¼)	1260-1½ 1096 (1100-1½)	NA	
LNAV MDA*	500-1 336 (400-1)		NA	
LNAV MDA	1380-1¼ 1216 (1300-1¼)	1380-1½ 1216 (1300-1½)	NA	



SANTA MONICA, CALIFORNIA
Amdt 1 01FEB18

34°01′N-118°27′W

SANTA MONICA MUNI (SMO)

RNAV (GPS) Z RWY 3

SW-3, 05 NOV 2020 to 31 DEC 2020

VOR/DME SMO	APP CRS	Rwy Idg	N/A
110.8	212°	TDZE	N/A
Chan 45		Apt Elev	170

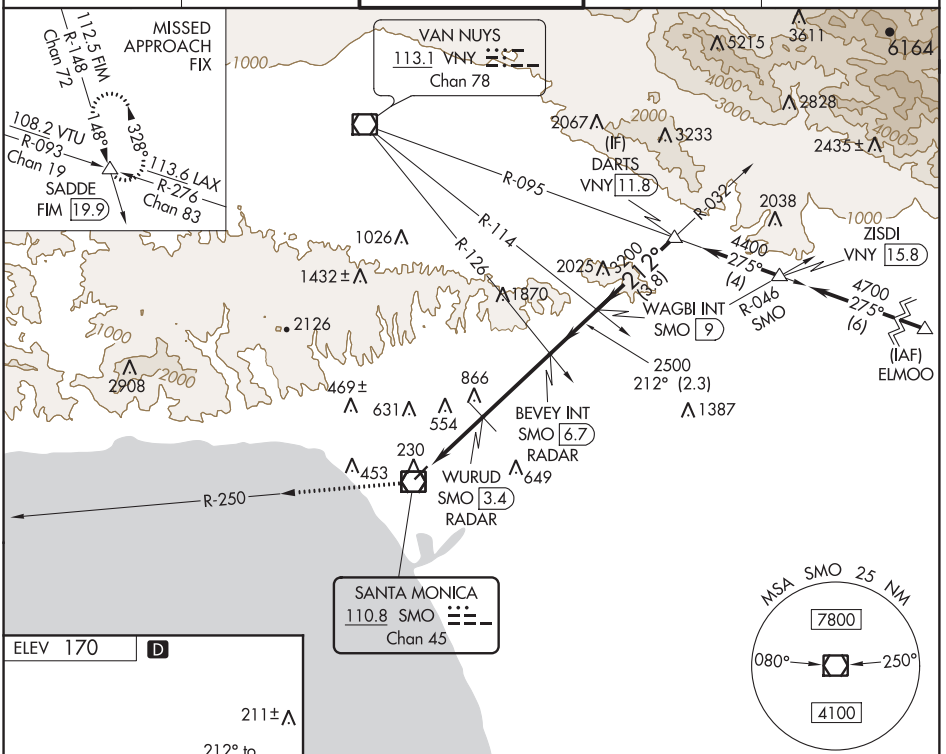
VOR-A

SANTA MONICA MUNI (SMO)

T
NA Procedure NA for arrivals at ELMOO on V186 southeast bound. Circling NA northwest of Rwy 3-21.

MISSED APPROACH: Climb to 5000 on SMO VOR/DME R-250 and on FIM VORTAC R-148 to SADDE INT/19.9 DME and hold, continue climb-in-hold to 5000.

ATIS	SOCAL APP CON	SANTA MONICA TOWER★	GND CON	UNICOM
119.15	128.5 235.975	120.1 (CTAF) L 257.8	121.9	122.95



CATEGORY	A	B	C	D
C CIRCLING	1540-1¼ 1370 (1400-1¼)	1540-1½ 1370 (1400-1½)	1540-3 1370 (1400-3)	
WURUD FIX MINIMUMS				
C CIRCLING	860-1 690 (700-1)		1180-3 1010 (1100-3)	

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SW-3, 05 NOV 2020 to 31 DEC 2020

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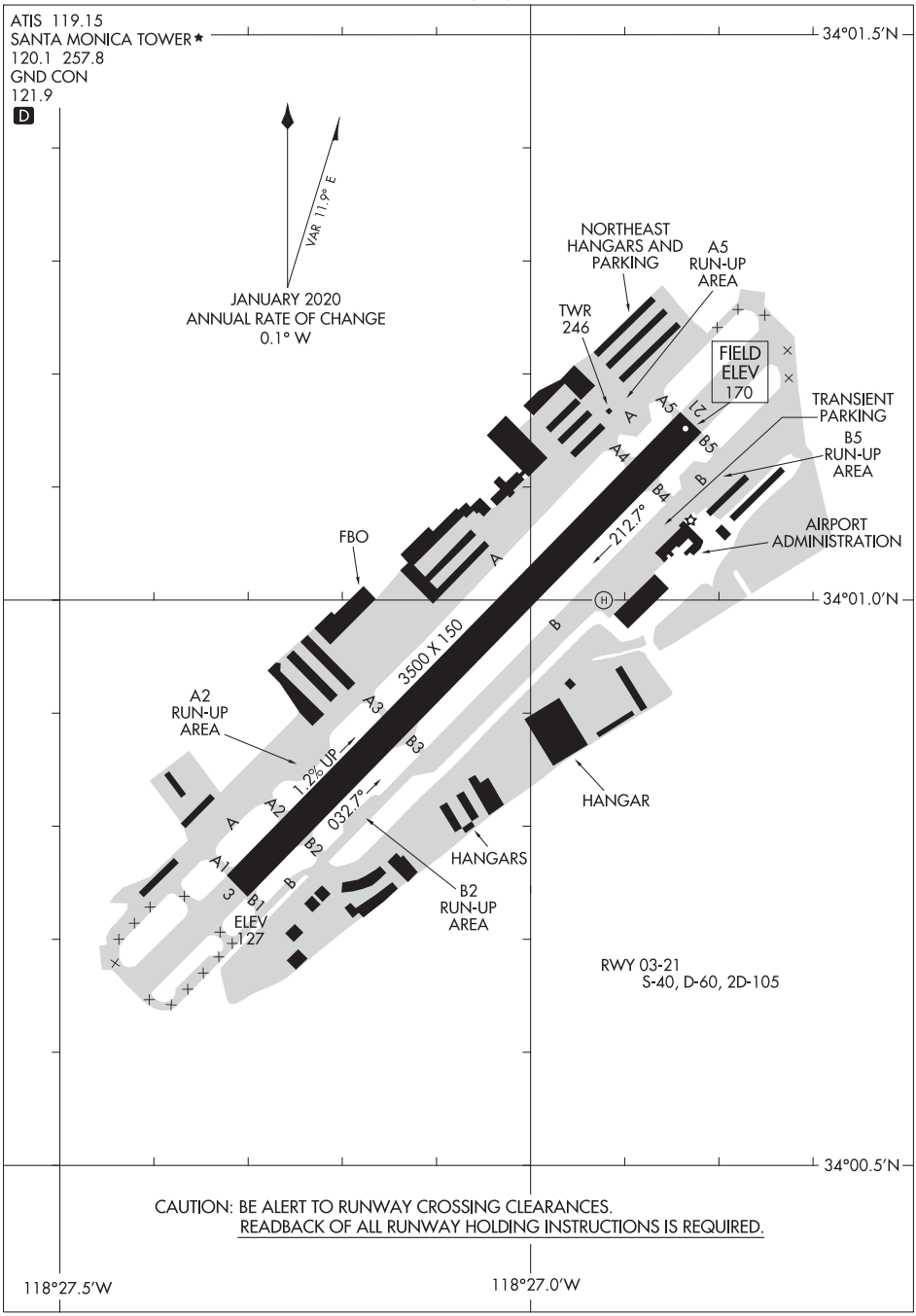
AIRPORT DIAGRAM

AL-5023 (FAA)

SANTA MONICA MUNI (SMO)

SANTA MONICA, CALIFORNIA

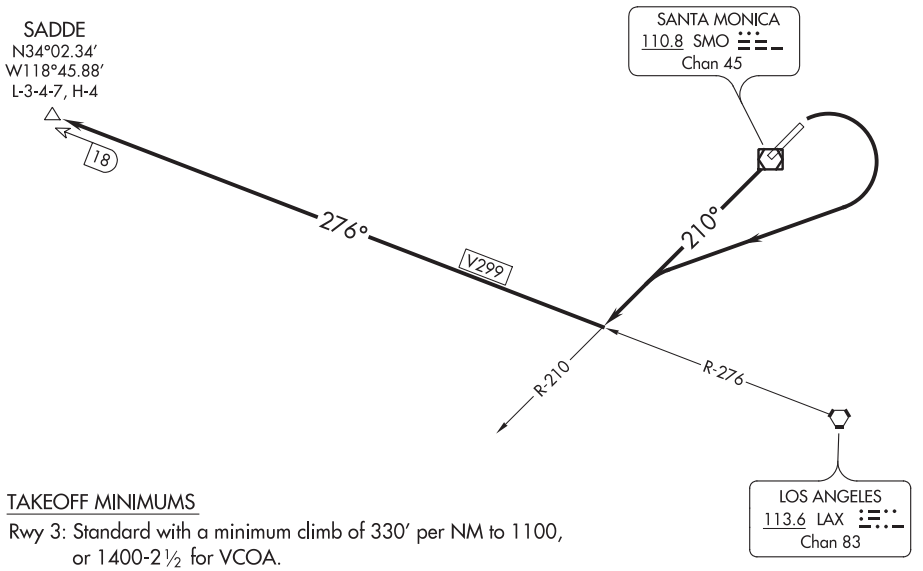


SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
SANTA MONICA, CALIFORNIA
SANTA MONICA MUNI (SMO)

ATIS
119.15
SANTA MONICA TOWER*
120.1 257.8
SOCAL DEP CON
125.2 263.025



TAKEOFF MINIMUMS

Rwy 3: Standard with a minimum climb of 330' per NM to 1100, or 1400-2½ for VCOA.
Rwy 21: Standard.

TAKEOFF OBSTACLE NOTES

Rwy 3: Pole 139' from DER, 159' right of centerline, 26' AGL/196' MSL.
Trees beginning 764' from DER, 478' right of centerline, up to 213' MSL.
Tree 995' from DER, 619' right of centerline, 217' MSL.
Tree 1063' from DER, 236' left of centerline, 206' MSL.
Tree 1102' from DER, 289' left of centerline, 207' MSL.
Trees beginning 1125' from DER, 402' left of centerline, up to 214' MSL.
Rwy 21: Pole, tree beginning 39' from DER, 357' right of centerline, up to 13' AGL/154' MSL.
Pole 214' from DER, 437' right of centerline, 30' AGL/174' MSL.
Trees beginning 409' from DER, 389' right of centerline, up to 191' MSL.
Tree, transmission line beginning 1328' from DER, 506' right of centerline, up to 215' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing right turn to 5000 on SMO R-210 and on LAX R-276 to SADDE INT.

TAKEOFF RUNWAY 21: Climb to 5000 on SMO R-210 and on LAX R-276 to SADDE INT.

VCOA RUNWAY 3: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross SMO VOR/DME at or above 1400, then continue climb to 5000 on SMO R-210 and LAX R-276 to SADDE INT.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(CHOII3.CHOII) 20254

CHOII THREE DEPARTURE (RNAV)

AL-5023 (FAA)

SANTA MONICA MUNI (SMO)
SANTA MONICA, CALIFORNIA

SW-3, 06 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb on heading 033° to 680, then direct to cross TREKK at or above 4000, then on track 036° to DARTS, then on track 329° to cross CHOII at or above 7100, thence. . . .

. . . .on assigned transition, maintain FL230. Expect filed altitude 10 minutes after departure.

BLYTHE TRANSITION (CHOII3.BLH)
COREZ TRANSITION (CHOII3.COREZ)
CSTRO TRANSITION (CHOII3.CSTRO)
FILLMORE TRANSITION (CHOII3.FIM)
HAILO TRANSITION (CHOII3.HAILO)
HECTOR TRANSITION (CHOII3.HEC)
LAS VEGAS TRANSITION (CHOII3.LAS)
MISEN TRANSITION (CHOII3.MISEN)

SW-3, 05 NOV 2020 to 31 DEC 2020

(CTRUS4.CTRUS) 20254

CTRUS FOUR DEPARTURE (RNAV)

AL-5023 (FAA)

SANTA MONICA MUNI (SMO)
SANTA MONICA, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 21: Climb on heading 213° to intercept course 260° to WRASH, then on track 262° to cross CTRUS at or above 5000, thence . . . .

. . . . on assigned transition, IKAYE transition maintain altitude as assigned by ATC, all other transitions maintain FL230. Expect filed altitude 10 minutes after departure.

COREZ TRANSITION (CTRUS4.COREZ)
CSTRO TRANSITION (CTRUS4.CSTRO)
HAILO TRANSITION (CTRUS4.HAILO)
HECTOR TRANSITION (CTRUS4.HEC)
IKAYE TRANSITION (CTRUS4.IKAYE)
LAS VEGAS TRANSITION (CTRUS4.LAS)
MISEN TRANSITION (CTRUS4.MISEN)
SCTRR TRANSITION (CTRUS4.SCTRR)
STOKD TRANSITION (CTRUS4.STOKD)

SW-3, 05 NOV 2020 to 31 DEC 2020

PEVEE SIX DEPARTURE (RNAV)

(PEVEE6.PEVEE) 01FEB18

SANTA MONICA, CALIFORNIA
SANTA MONICA MUNI (SMO)

SANTA MONICA TOWER★
120.1 257.8
SOCAL DEP CON
125.2 323.275

TOP ALTITUDE:
CLEEE and CNERY TRANSITIONS: 17000;
OTAYY and TCATE TRANSITIONS: FL200

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: Turbojet aircraft only.
NOTE: All aircraft expect RADAR vectors to PEVEE prior to PEEER.

TAKEOFF MINIMUMS
Rwy 3: NA - ATC.
Rwy 21: Standard with a minimum climb of 500′ per NM to 680.

PEEER
WRASH
255° (5)
260°
213°
181° (9)
SPRRW
130° (16)
PEVEE
(9) 9000 097°
HOLTZ
10000 078° (27)
DOTSS 15000
15000 065° (29)
EYEDL
15000 079° (13)
HOMER
15000 079° (45)
CLEEE
15000 094° (29)
WIILD
15000 079° (41)
BLCKD
15000 079° (20)
CSTWY
15000 059° (24)
CNERY
105° (21) 9000
TANNN 15000
15000 105° (9)
NNICE
15000 126° (25)
PNDAH FL200
15000 097° (63)
TCATE
15000 125° (41)
OTAYY
LVELL
TTRUE
WURMO
N

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

(PEVEE6.PEVEE) 18032
PEVEE SIX DEPARTURE (RNAV)
AL-5023 (FAA)
SANTA MONICA MUNI (SMO)
SANTA MONICA, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 21: Climb on heading 213° to intercept course 260° to WRASH, then on track 255° to PEEER, then on track 181° to SPRRW, then on track 130° to PEVEE, thence. . . .

. . . .on assigned transitions CLEEE and CNERY maintain 17000, OTAYY and TCATE transitions maintain FL200, expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: In the event of lost communications, proceed via assigned transition.

CLEEE TRANSITION (PEVEE6.CLEEE)
CNERY TRANSITION (PEVEE6.CNERY)
OTAYY TRANSITION (PEVEE6.OTAYY)
TCATE TRANSITION (PEVEE6.TCATE)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

(SMO3.CHOII) 18032 AL-5023 (FAA)

SANTA MONICA THREE DEPARTURE (RNAV)

SANTA MONICA MUNI (SMO)
SANTA MONICA, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SANTA MONICA THREE DEPARTURE (RNAV)
(SMO3.CHOII) 01FEB18
SANTA MONICA, CALIFORNIA
SANTA MONICA MUNI (SMO)

SW-3, 05 NOV 2020 to 31 DEC 2020

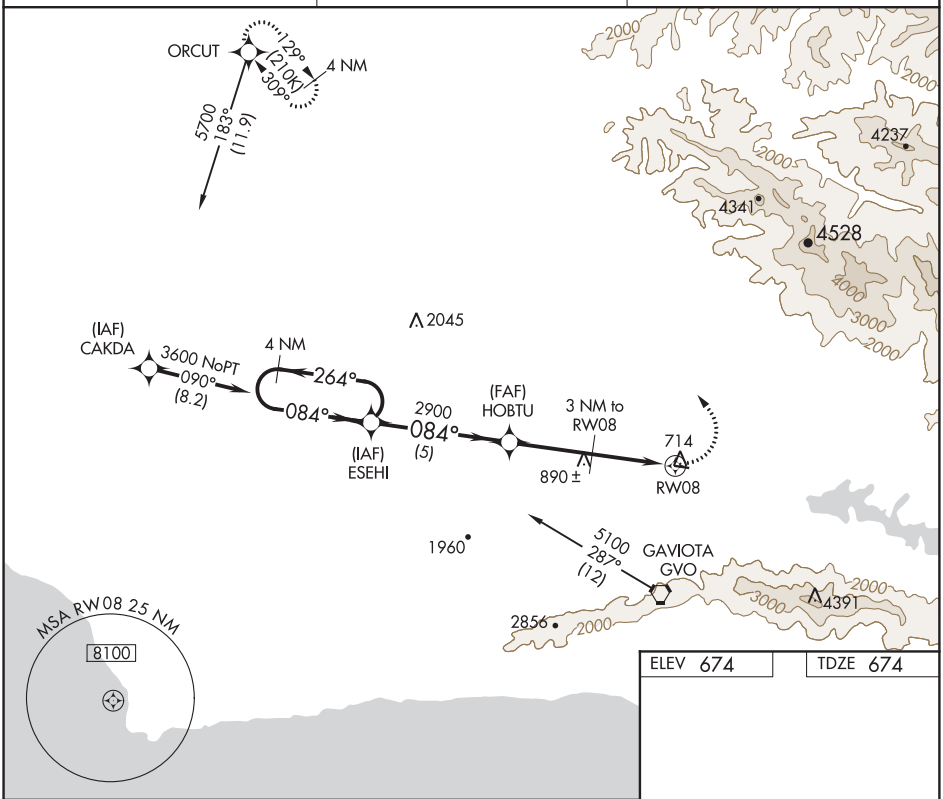
APP CRS	Rwy Idg	2804
084°	TDZE	674
	Apt Elev	674

GPS RWY 8
SANTA YNEZ (IZA)

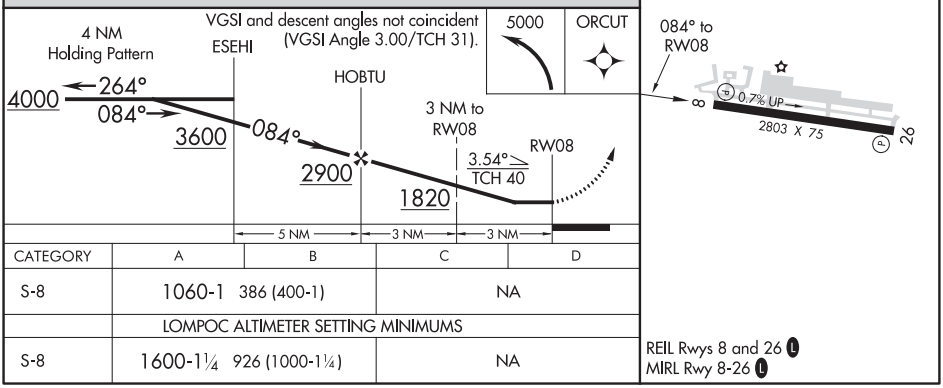
T
NA When local altimeter setting not received, use Lompoc altimeter setting. Rwy 8 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing left turn to 5000 direct ORCUT WP and hold.

AWOS-3	SANTA BARBARA APP CON ★	UNICOM
118.075	124.15 327.8	122.8 (CTAF) L



ELEV 674	TDZE 674



CATEGORY	A	B	C	D
S-8	1060-1	386 (400-1)	NA	
	LOMPOC ALTIMETER SETTING MINIMUMS			
S-8	1600-1¼	926 (1000-1¼)	NA	

REIL Rwys 8 and 26 L
MIRL Rwy 8-26 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SANTA YNEZ, CALIFORNIA | AL-5730 (FAA) | 20310

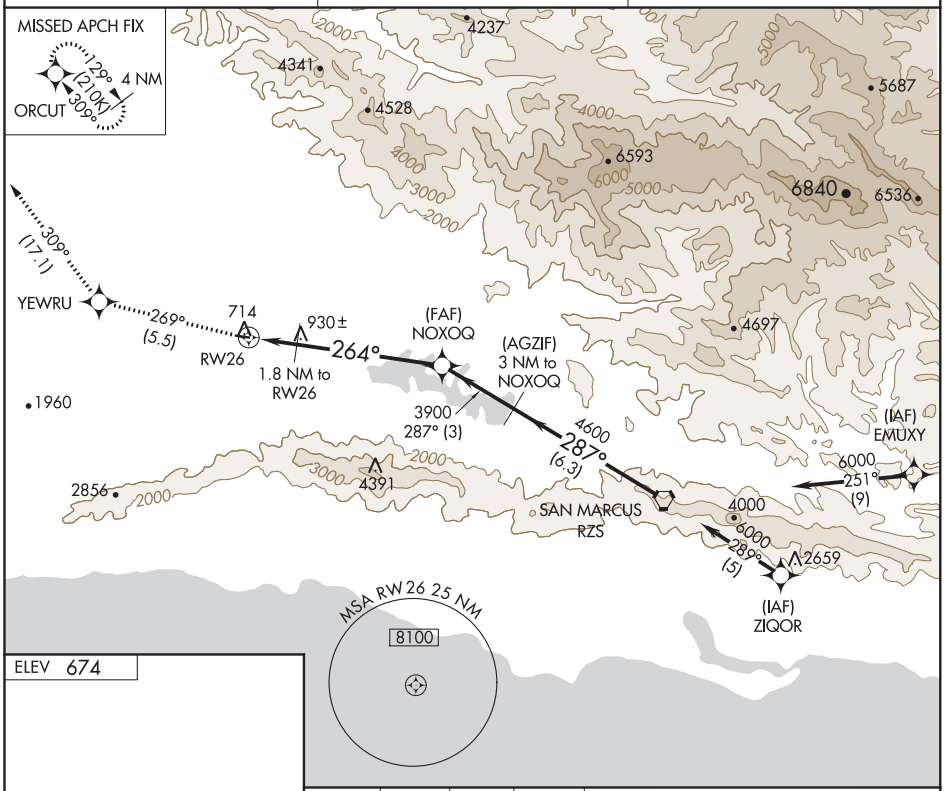
APP CRS	Rwy Idg	N/A
264°	TDZE	N/A
	Apt Elev	674

GPS-A
SANTA YNEZ (IZA)

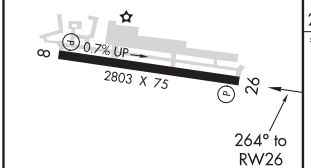
NA — Obtain local altimeter setting on CTAF, when not received, except for operators with approved weather reporting service, use Lompoc altimeter setting.

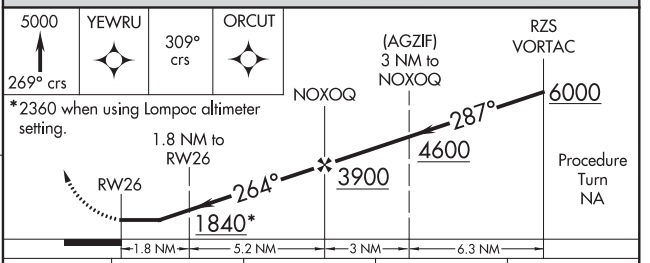
MISSED APPROACH: Climb to 5000 via 269° course to YEWRU WP, then via 309° course to ORCUT WP and hold.

AWOS-3	SANTA BARBARA APP CON*	UNICOM
118.075	124.15 327.8	122.8 (CTAF) L



ELEV 674





CATEGORY	A	B	C	D
CIRCLING	1120-1 446 (500-1)	1160-1 486 (500-1)	NA	
LOMPOC ALTIMETER SETTING MINIMUMS				
CIRCLING	1640-1¼ 966 (1000-1¼)	1680-1½ 1006 (1100-1½)	NA	

REIL Rwys 8 and 26 L
MIRL Rwy 8-26 L

SANTA YNEZ, CALIFORNIA
Orig-C 02JUL09

34°36'N-120°05'W

SANTA YNEZ (IZA)
GPS-A

SW-3, 05 NOV 2020 to 31 DEC 2020

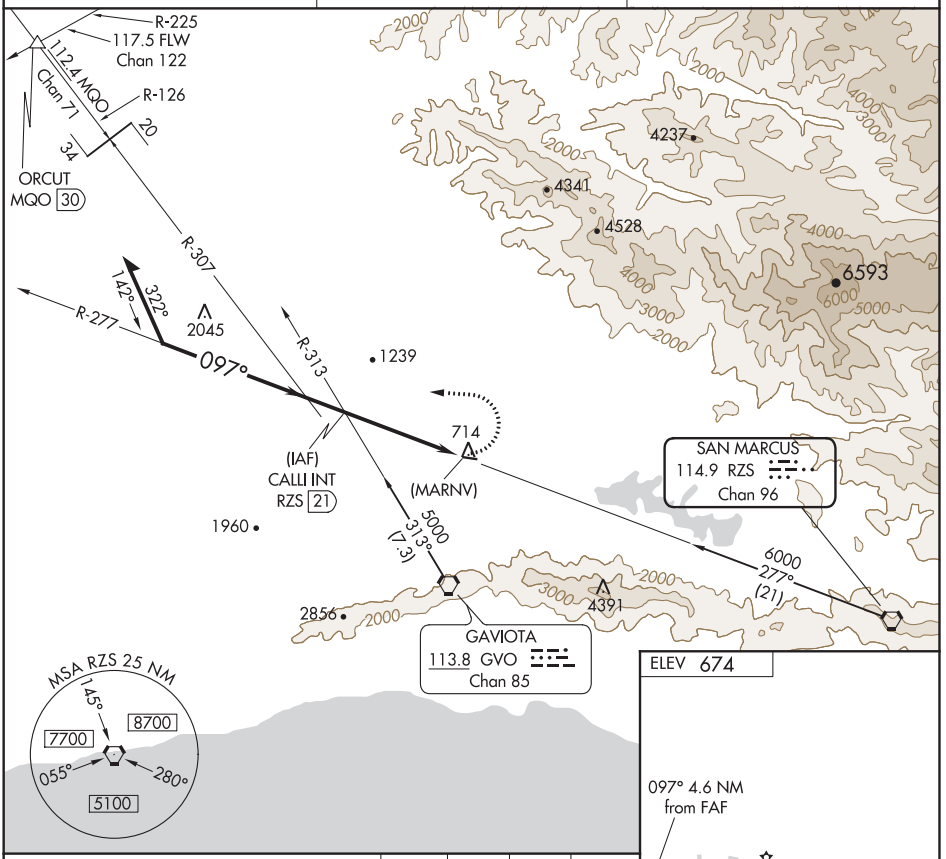
VORTAC RZS	APP CRS	Rwy Idg	N/A
114.9	097°	TDZE	N/A
Chan 96		Apt Elev	674

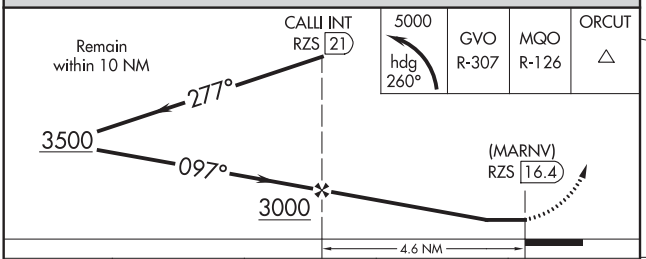
VOR or GPS-B
SANTA YNEZ (IZA)

Obtain local altimeter setting on CTAF, when not received, except for operators with approved weather reporting service, use Lompoc altimeter setting and increase all MDAs 540 feet.

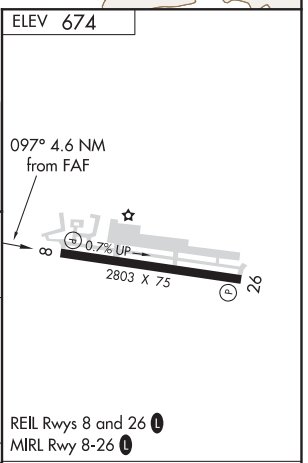
MISSED APPROACH: Climbing left turn to 5000 via heading 260° and GVO R-307 and MQO R-126 to ORCUT INT.

AWOS-3	SANTA BARBARA APP CON*	UNICOM
118.075	124.15 327.8	122.8 (CTAF) L





5000	GVO	MQO	ORCUT
hdg 260°	R-307	R-126	△



CATEGORY	A	B	C	D
CIRCLING	1880-1¼ 1206 (1300-1¼)	1880-1½ 1206 (1300-1½)	NA	

FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

SHAFTER, CALIFORNIA | AL-6926 (FAA) | 20254

WAAS	APP CRS	Rwy Idg	4501
CH 82517	120°	TDZE	413
W12A		Apt Elev	425

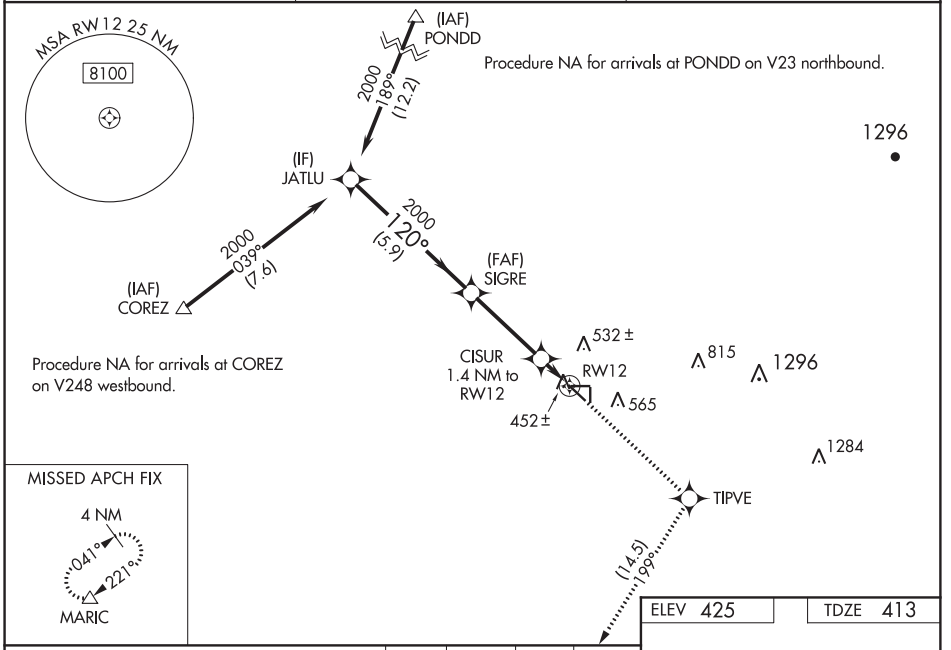
RNAV (GPS) RWY 12

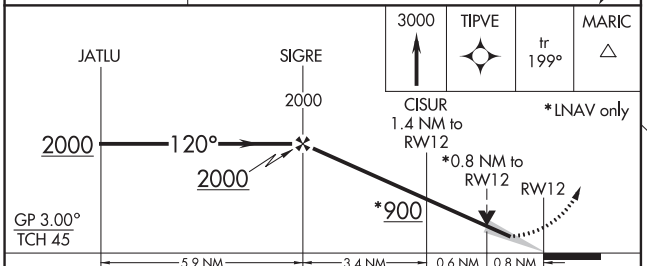
SHAFTER-MINTER FIELD (MIT)

Baro-VNAV NA when using Bakersfield altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). When local altimeter setting not received, use Bakersfield altimeter setting and increase LPV and LNAV/VNAV DA to 694 feet and LNAV/VNAV visibility to ⅞ all Cats; increase all MDA 40 feet. DME/DME RNP-0.3 NA.
Night Landing Rwy 17, 35, 8, 26 NA.

MISSED APPROACH: Climb to 3000 direct TIPVE and on track 199° to MARIC and hold.

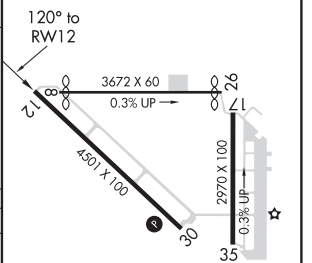
AWOS-3	BAKERSFIELD APP CON	CTAF
121.125	126.45 270.3	122.9 L





CATEGORY	A	B	C	D
LPV DA	663-¾ 250 (300-¾)			NA
LNAV/VNAV DA	663-¾ 250 (300-¾)			NA
LNAV MDA	720-1 307 (300-1)			NA
CIRCLING	900-1 475 (500-1)		900-1½ 475 (500-1½)	NA

ELEV 425 | TDZE 413



MIRL Rwy 12-30 L
REIL Rwys 12 and 30 L

SHAFTER, CALIFORNIA
Amdt 1A 29MAY14

35°30'N-119°12'W

SHAFTER-MINTER FIELD (MIT)
RNAV (GPS) RWY 12

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VORTAC EHF	APP CRS	Rwy Idg	N/A
115.4	269°	TDZE	N/A
Chan 101		Apt Elev	425

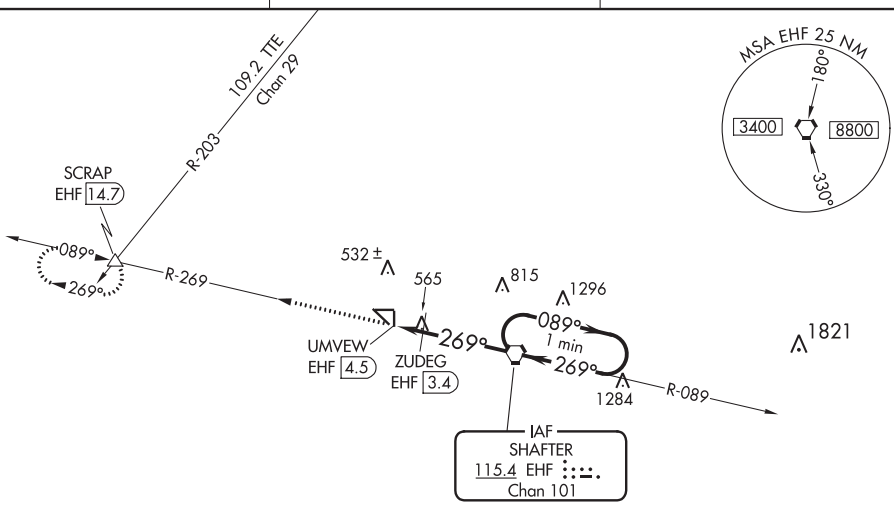
VOR-A

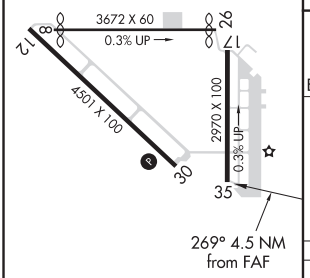
SHAFTER-MINTER FIELD (MIT)

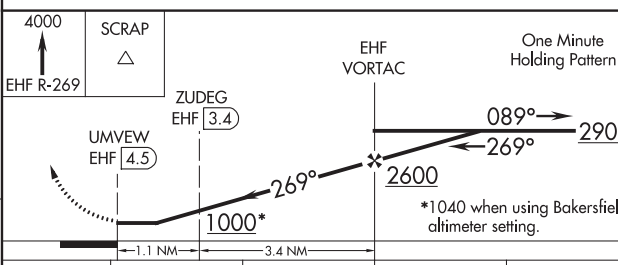
T A NA — Circling to Rwy 17, 35, 8 and 26 NA at night. When local altimeter setting not received, use Bakersfield altimeter setting and increase all MDAS 40 feet and increase Cat C visibility to 1¾.

MISSED APPROACH: Climb to 4000 on EHF VORTAC R-269 to SCRAP INT/EHF 14.7 DME and hold, continue climb-in-hold to 4000.

AWOS-3	BAKERSFIELD APP CON	CTAF
121.125	126.45 270.3	122.9 L







MIRL Rwy 12-30 L
REIL Rwys 12 and 30 L

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
CIRCLING	1000-1 575 (600-1)		1000-1½ 575 (600-1½)	NA

ZUDEG FIX MINIMUMS				
CIRCLING	900-1 475 (500-1)		900-1½ 475 (500-1½)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

TORRANCE, CALIFORNIA | AL-5179 (FAA) | 20198

ILS or LOC RWY 29R

ZAMPERINI FIELD (TOA)

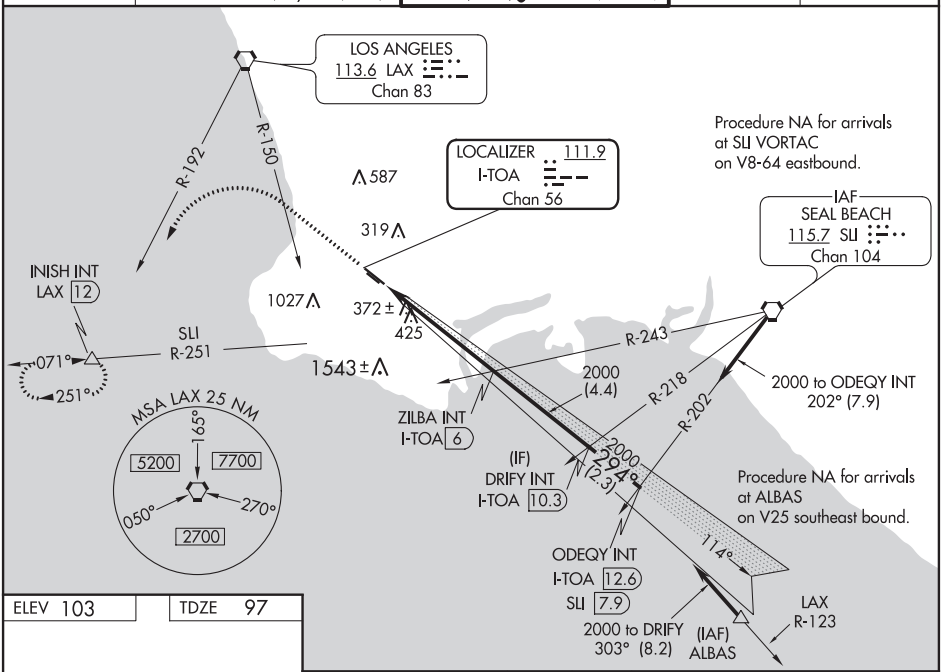
LOC/DME I-TOA	APP CRS	Rwy Idg	4461
111.9	294°	TDZE	97
Chan 56		Apt Elev	103

Circling NA SW of Rwy 11R-29L. When local altimeter setting not received, except for operators with approved weather reporting service, use Los Angeles Intl altimeter setting and increase all DA to 405 feet and increase all MDA 40 feet; Increase S-LOC 29R and Circling Cat C visibility ⅛ SM. For inop ALS, increase S-ILS 29R all Cats visibility to ⅞ SM. For inop ALS when using Los Angeles Intl altimeter setting increase S-ILS 29R all Cats visibility to ⅞ SM. VDP NA when using Los Angeles altimeter setting.

MALSR

MISSED APPROACH: Climb to 3000 on heading 294° to cross LAX VORTAC R-150 then climbing left turn on heading 250° and on LAX VORTAC R-192 to INISH INT/ LAX 12 DME and hold.

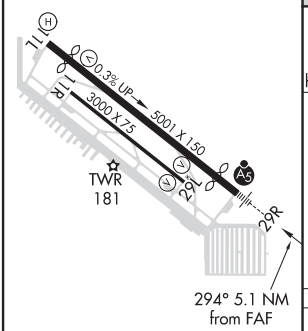
ATIS	SOCAL APP CON	TORRANCE TOWER★	GND CON	UNICOM
125.6	124.3 363.2 (Rwys 11L, 11R) 127.2 269.6 (Rwys 29L, 29R)	133.075 257.8 (NORTH) 124.0 (CTAF) L 257.8 (SOUTH)	120.9	122.95



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ELEV 103 | TDZE 97



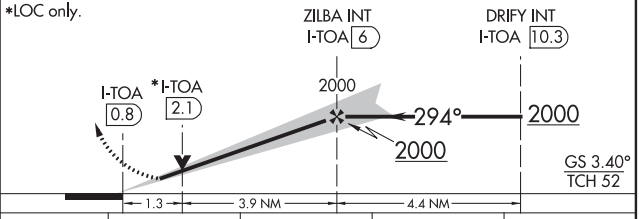
REIL Rwy 29L
MIRL Rwys 11L-29R and 11R-29L

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:08	3:25	2:34	2:03	1:43

3000 hdg 294°	LAX R-150	hdg 250°	LAX R-192	INISH △

VGSI and ILS glidepath not coincident (VGSI Angle 4.00/TCH 11).

*LOC only.



CATEGORY	A	B	C	D
S-ILS 29R	381-½ 284 (300-½)			NA
S-LOC 29R	640-½ 543 (600-½)		640-1⅛ 543 (600-1⅛)	NA
C CIRCLING	640-1 537 (600-1)	680-1 577 (600-1)	680-1⅝ 577 (600-1⅝)	NA

TORRANCE, CALIFORNIA
Amdt 3 15SEP16

33°48′N-118°20′W

ZAMPERINI FIELD (TOA)

ILS or LOC RWY 29R

WAAS	APP CRS	Rwy Idg	4460
CH 61125	114°	TDZE	96
W11A		Apt Elev	103

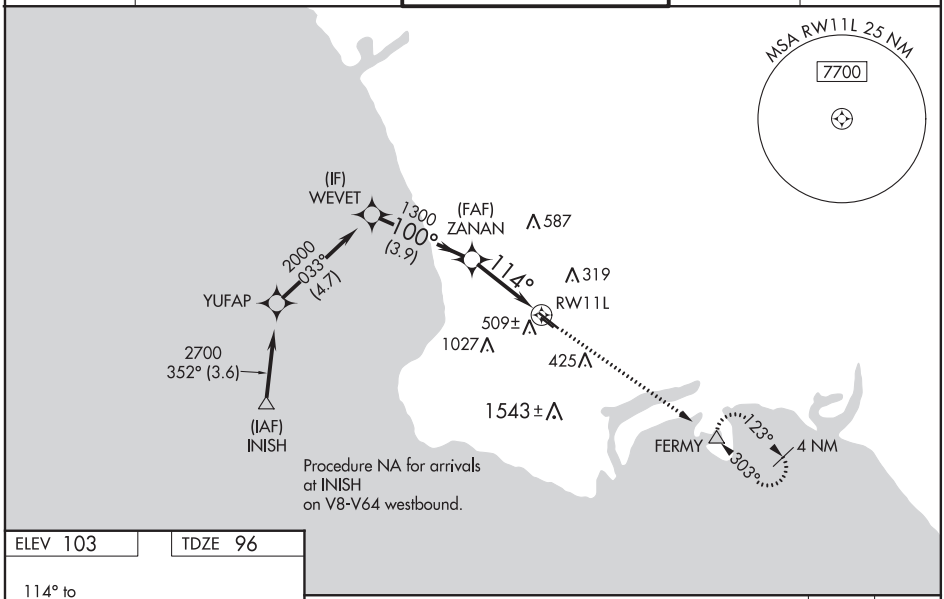
RNAV (GPS) RWY 11L

ZAMPERINI FIELD (TOA)

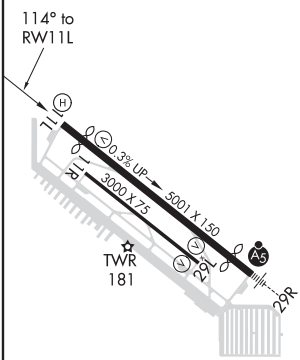
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 3°C (38°F) or above 54°C (130°F). Circling NA southwest of Rwy 11R-29L. Baro-VNAV and VDP NA when using Los Angeles Intl altimeter setting. DME/DME RNP-0.3 NA. When local altimeter setting not received, except for operators with approved weather reporting service, use Los Angeles Intl altimeter setting: increase LPV DA to 390 feet and LNAV/VNAV DA to 714 feet and all MDA 40 feet; increase LNAV/VNAV all Cats visibility, LNAV Cat C visibility and Circling Cat C visibility 1/8 SM. Rwy 11L helicopter visibility reduction below 3/4 SM NA.

MISSED APPROACH: Climb to 2700 direct FERMY and hold, continue climb-in-hold to 2700.

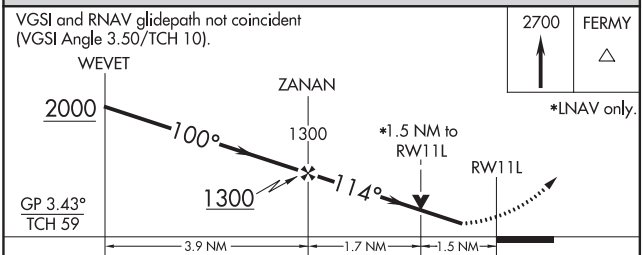
ATIS	SOCAL APP CON	TORRANCE TOWER★	GND CON	UNICOM
125.6	124.3 363.2 (Rwys 11L, 11R) 127.2 269.6 (Rwys 29L, 29R)	133.075 257.8 (NORTH) 124.0 (CTAF) L 257.8 (SOUTH)	120.9	122.95



ELEV 103 TDZE 96



REIL Rwy 29L
MIRL Rwys 11L-29R and 11R-29L



CATEGORY	A	B	C	D
LPV DA	366-7/8 270 (300-7/8)			NA
LNAV/VNAV DA	690-1 3/4 594 (600-1 3/4)			NA
LNAV MDA	640-1 544 (600-1)		640-1 5/8 544 (600-1 5/8)	NA
C CIRCLING	640-1 537 (600-1)	680-1 577 (600-1)	680-1 5/8 577 (600-1 5/8)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 29R

ZAMPERINI FIELD (TOA)

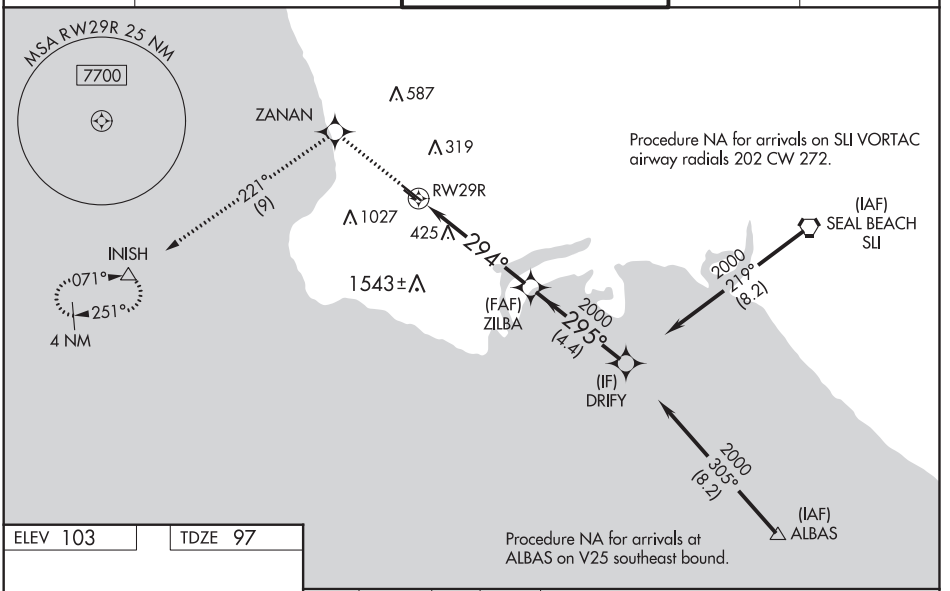
WAAS	APP CRS	Rwy Idg	4461
CH 56425	294°	TDZE	97
W29A		Apt Elev	103

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 3°C (38°F) or above 54°C (130°F). Circling NA southwest of Rwy 11R-29L. DME/DME RNP-0.3 NA. For inop ALS, increase LPV all Cats visibility to ⅞ SM. For inop ALS when using Los Angeles Intl altimeter setting, increase LPV all Cats visibility to ⅞ SM, LNAV/VNAV all Cats visibility to 2 SM, and LNAV Cat C visibility to 1¾ SM. Baro-VNAV and VDP NA when using Los Angeles Intl altimeter setting. When local altimeter setting not received, except for operators with approved weather reporting service, use Los Angeles Intl setting: increase LPV DA to 391 feet and LNAV/VNAV DA to 763 feet and all MDA 40 feet; increase LNAV/VNAV all Cats visibility and LNAV Cat C visibility ⅛ SM.

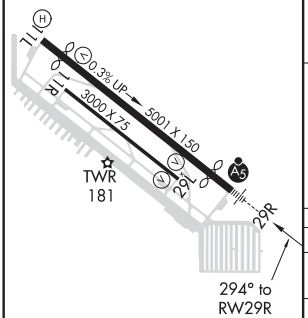
MALSR

MISSED APPROACH: (Do not exceed 185 KIAS until ZANAN) Climb to 3000 direct ZANAN and on track 221° to INISH and hold, continue climb-in-hold to 3000.

ATIS	SOCAL APP CON	TORRANCE TOWER*	GND CON	UNICOM
125.6	124.3 363.2 (Rwys 11L, 11R) 127.2 269.6 (Rwys 29L, 29R)	133.075 257.8 (NORTH) 124.0 (CTAF) L 257.8 (SOUTH)	120.9	122.95



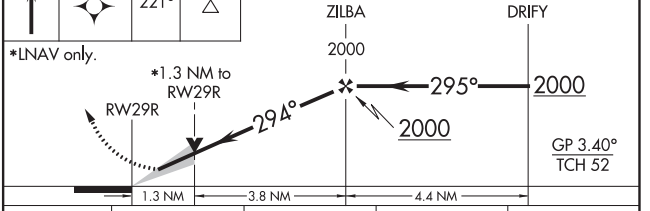
ELEV 103 | TDZE 97



REIL Rwy 29L
MIRL Rwys 11L-29R and 11R-29L

3000	ZANAN	tr 221°	INISH

VGSI and RNAV glidepath not coincident (VGSI Angle 4.00/TCH 11).



CATEGORY	A	B	C	D
LPV DA	367-½ 270 (300-½)			NA
LNAV/VNAV DA	739-1½ 642 (700-1½)			NA
LNAV MDA	680-½ 583 (600-½)		680-1¼ 583 (600-1¼)	NA
C CIRCLING	680-1 577 (600-1)		680-1¾ 577 (600-1¾)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

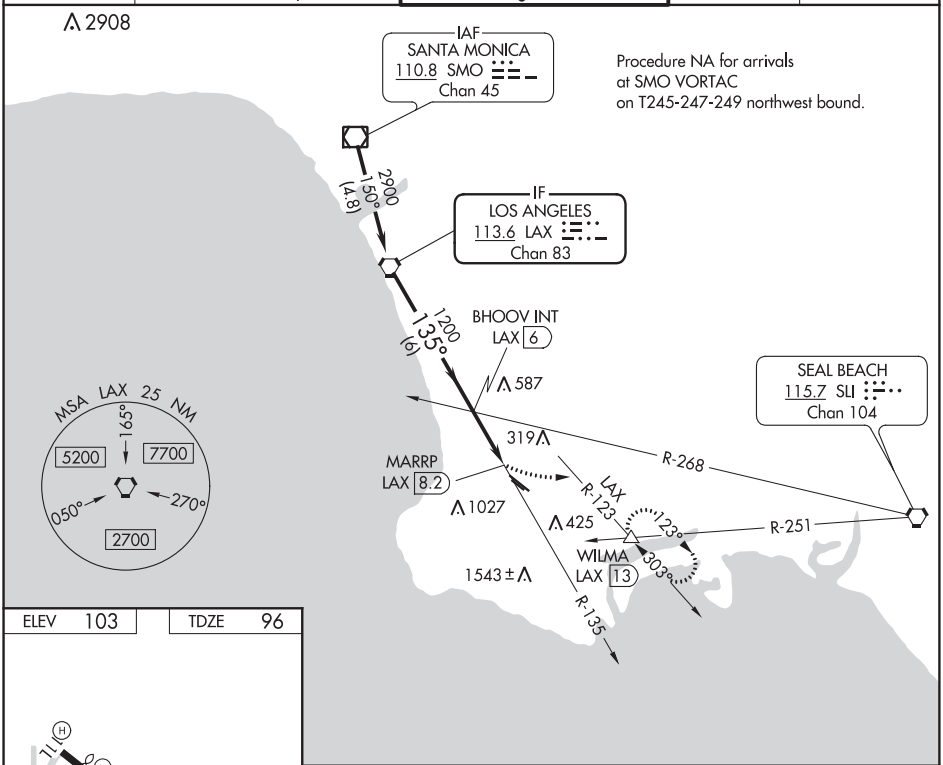
VORTAC LAX	APP CRS	Rwy Idg	4460
113.6	135°	TDZE	96
Chan 83		Apt Elev	103

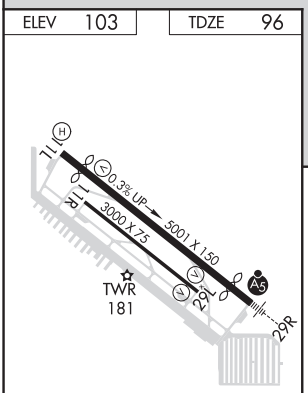
VOR RWY 11L
ZAMPERINI FIELD (TOA)

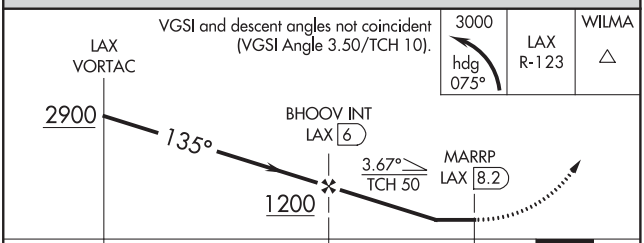
Circling NA southwest of Rwy 11R-29L. When local altimeter setting not received, except for operators with approved weather reporting service, use Los Angeles Intl altimeter setting and increase all MDA 40 feet and increase S-11L Cat A visibility and Circling Cat C visibility ¼ SM. Rwy 11L helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing left turn to 3000 on heading 075° and on LAX VORTAC R-123 to WILMA INT/LAX 13 DME and hold, continue climb-in-hold to 3000.

ATIS	SOCAL APP CON	TORRANCE TOWER★	GND CON	UNICOM
125.6	124.3 363.2 (Rwys 11L, 11R) 127.2 269.6 (Rwys 29L, 29R)	133.075 257.8 (NORTH) 124.0 (CTAF) L 257.8 (SOUTH)	120.9	122.95







REIL Rwy 29L
MIRL Rwys 11L-29R and 11R-29L

FAF to MAP 2.2 NM

Knots	60	90	120	150	180
Min:Sec	2:12	1:28	1:06	0:53	0:44

CATEGORY	A	B	C	D
S-11L	980-1 884 (900-1)	980-1¼ 884 (900-1¼)	980-2½ 884 (900-2½)	NA
C CIRCLING	980-1¼ 877 (900-1¼)		980-2½ 877 (900-2½)	NA

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20198

AIRPORT DIAGRAM

AL-5179 (FAA)

ZAMPERINI FIELD (TOA)

TORRANCE, CALIFORNIA

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20198

TORRANCE, CALIFORNIA
ZAMPERINI FIELD (TOA)

TOP ALTITUDE:
6000
GND CON
120.9
TORRANCE TOWER★
133.075 257.8 (NORTH)
124.0 257.8 (SOUTH)
SOCAL DEP CON
127.2 269.6 (11L/R)
134.9 360.7 (29L/R)
N
IKAYE
6000
280°
(14)
MOOOS
6000
255°
(8)
ORIYL
6000
285°
(6)
WROBN
6000
5000
310°
(7)
HAWWC
5000
290°
(5)
PIJIN
4000
114°
2700
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: This procedure not authorized for turbojet aircraft.
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RUNWAYS 11L/R: Climb heading 114° to 2700 for vectors to PIJIN, cross PIJIN at or above 4000, then on track 290° to cross HAWWC at or above 5000, thence . . . .
. . . . on (transition). Maintain 6000. Expect higher altitude 10 minutes after departure.
IKAYE TRANSITION (HAWWC3.IKAYE)
TAKEOFF MINIMUMS
Rwys 11L/R: Standard with minimum climb of 325 feet per NM to 1600.
Rwys 29L/R: NA-ATC.
NOTE: Chart not to scale.

HUNTER LIGGETT, CALIFORNIA

COPTER RNAV (GPS) RWY 32

APCH CRS	Rwy ldg	570
301°	TDZE	1017
	Arpt Elev	1017

[USA] AL-3073 (MIL)

TUSI AHP (KHGT)

Procedure NA when Fort Hunter-Liggett altimeter setting not available.

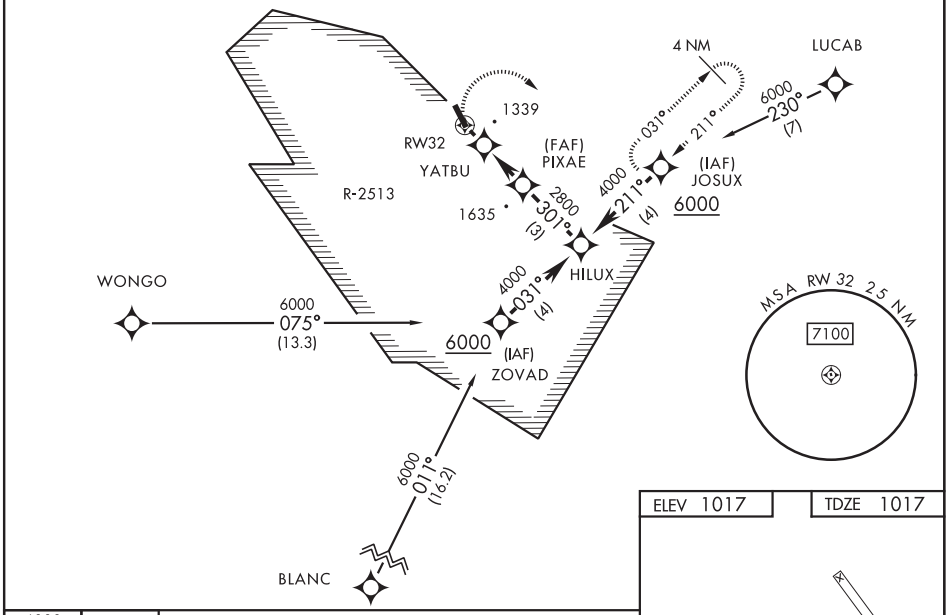
NA Limit final and missed approach to 90 KIAS.

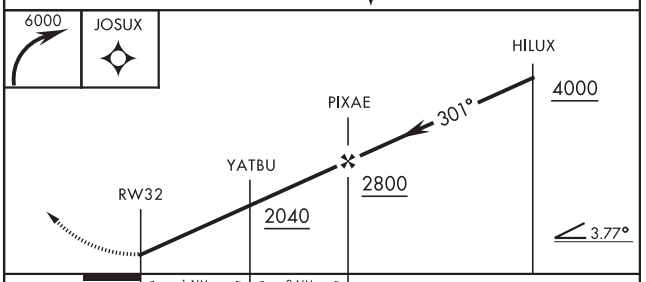
MISSED APPROACH: Climbing right turn to 6000 direct JOSUX and hold.

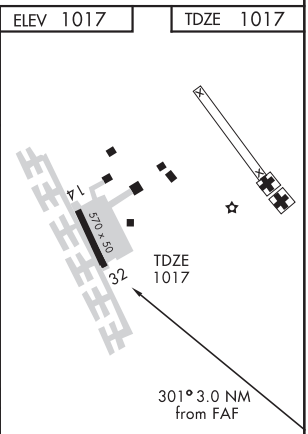
OAKLAND CENTER	RANGE CON/OPS
128.7 307.0	41.05 126.2 229.5

NOT FOR CIVIL USE

DME/DME RNP-0.3 NA







CATEGORY	COPTER		
LNAV MDA	1660-½	643	(700-½)

MIRL Rwys 14-32

HUNTER LIGGETT, CALIFORNIA 36°00'N - 121°14'W TUSI AHP (KHGT)

Orig A 16JUL20
PANS-OPS

COPTER RNAV (GPS) RWY 32

SW-3, 05 NOV 2020 to 31 DEC 2020

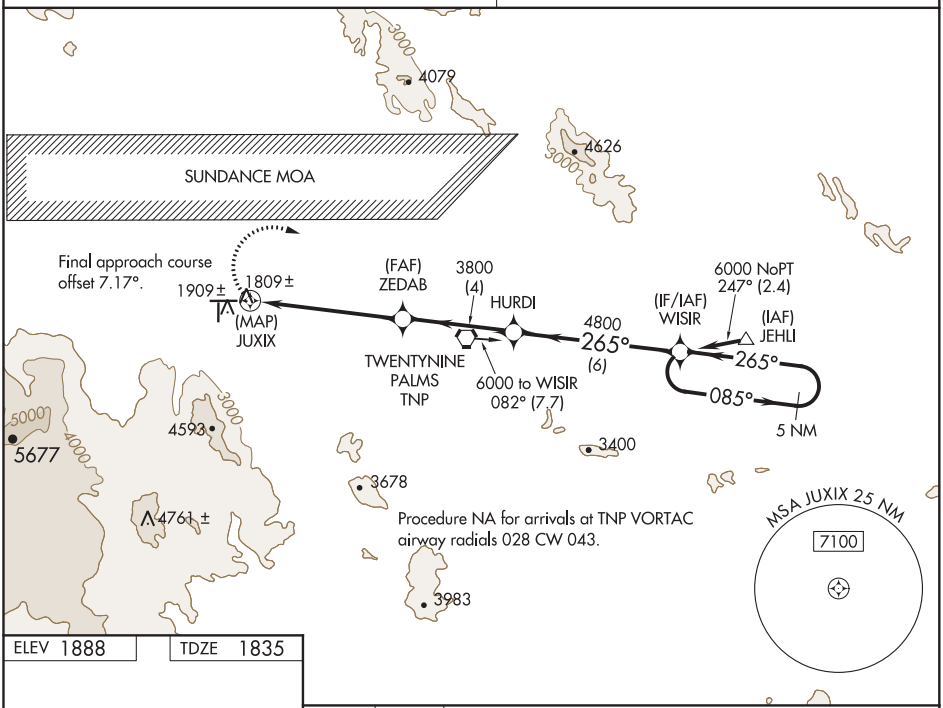
WAAS	APP CRS	Rwy Idg	5531
CH 70634	265°	TDZE	1835
W26A		Apt Elev	1888

RNAV (GPS) RWY 26
TWENTYNINE PALMS (TNP)

Use Palm Springs Intl altimeter setting; when not received, procedure NA.
Circling NA south of Rwy 8-26. DME/DME RNP-0.3 NA.
*Missed approach requires minimum climb of 425 feet per NM to 3900.

MISSED APPROACH: Climbing right turn to 6000 direct WISIR and hold.

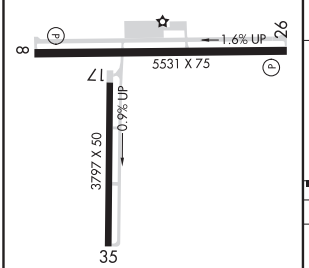
LOS ANGELES CENTER	AUNICOM
128.15 285.6	122.8 (CTAF) L



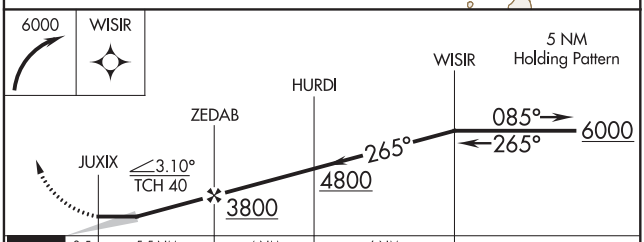
SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

ELEV 1888	TDZE 1835



REIL Rwys 8 and 26 L
MIRL Rwys 8-26 and 17-35 L



CATEGORY	A	B	C	D
LP MDA	2940-1¼ 1105 (1100-1¼)	2940-1½ 1105 (1100-1½)	NA	
*LNAV MDA	3080-1¼ 1245 (1200-1¼)	3080-1½ 1245 (1200-1½)	NA	
LNAV MDA	3180-1¼ 1345 (1300-1¼)	3180-1½ 1345 (1300-1½)	NA	
C CIRCLING	3300-1¼ 1412 (1500-1¼)	3340-1½ 1452 (1500-1½)	NA	

TWENTYNINE PALMS, CALIFORNIA AL-6489 (FAA) 20002

VORTAC TNP 114.2 Chan 89	APP CRS 264°	Rwy Idg 5531 TDZE 1835 Apt Elev 1888

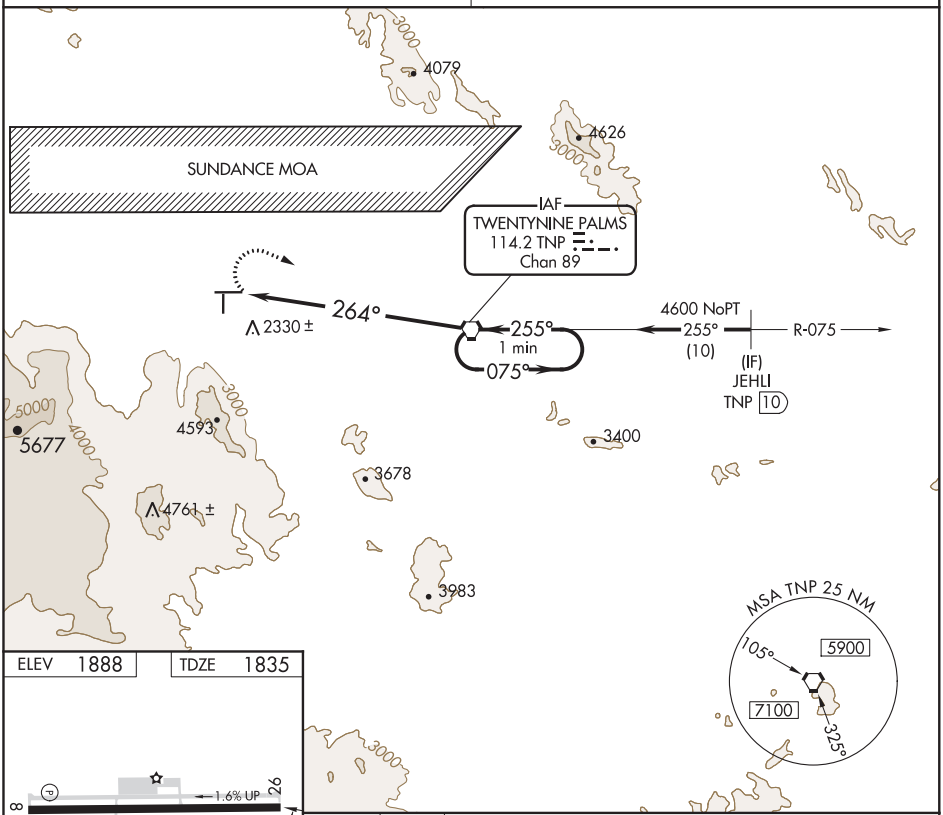
VOR RWY 26
TWENTYNINE PALMS (TNP)

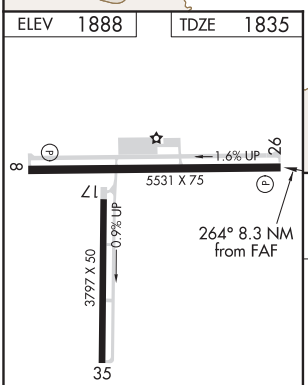
When Palm Springs Intl altimeter setting not received, procedure NA. Circling NA south of Rwy 8-26. Use Palm Springs Intl altimeter setting.

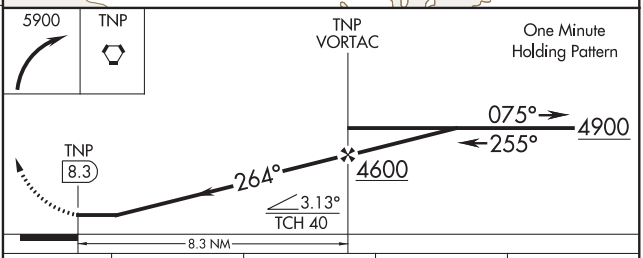
MISSED APPROACH: Climbing right turn to 5900 direct TNP VORTAC and hold, continue climb-in-hold to 5900.

LOS ANGELES CENTER **128.15 285.6**

AUNICOM **122.8** (CTAF) L







REIL Rwys 8 and 26 L
MIRL Rwys 8-26 and 17-35 L

FAF to MAP 8.3 NM

Knots	60	90	120	150	180
Min:Sec	8:18	5:32	4:09	3:19	2:46

CATEGORY	A	B	C	D
S-26	3580-1¼ 1745 (1700-1¼)	3580-1½ 1745 (1700-1½)	NA	
C CIRCLING	3580-1¼ 1692 (1700-1¼)	3580-1½ 1692 (1700-1½)	NA	

TWENTYNINE PALMS, CALIFORNIA
Amdt 2B 02JAN20

34°08′N-115°57′W

TWENTYNINE PALMS (TNP)
VOR RWY 26

SW-3, 05 NOV 2020 to 31 DEC 2020

WAAS	APP CRS	Rwy Idg	3757
CH 45934	054°	TDZE	1430
W06A		Apt Elev	1444

RNAV (GPS) RWY 6

CABLE (CCB)

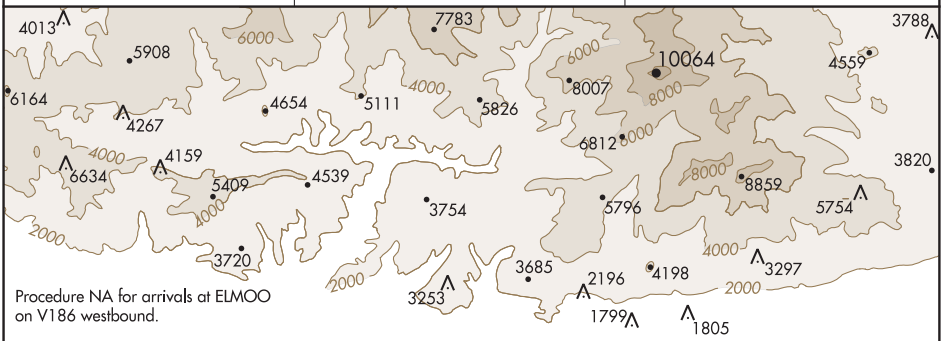
RNP APCH.

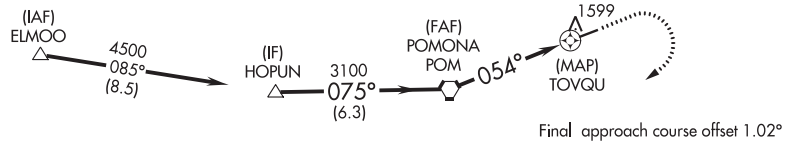
Circling NA northwest of Rwy 6-24. Rwy 6 helicopter visibility reduction below ¾ SM NA. Circling Rwy 24 NA at night. When local altimeter setting not received, use Ontario altimeter setting and increase all MDA 100 feet.

NA

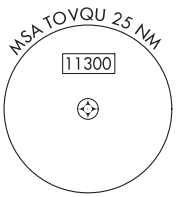
MISSED APPROACH: Climb to 1900 then climbing right turn to 5500 direct ADAMM and hold, continue climb-in-hold to 5500.

AWOS-3P	SOCAL APP CON	UNICOM
119.525	125.5 349.0	123.0 (CTAF) L



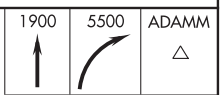


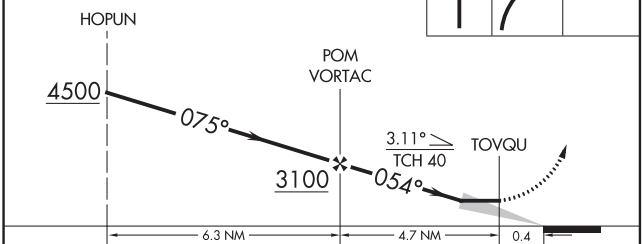
Final approach course offset 1.02°

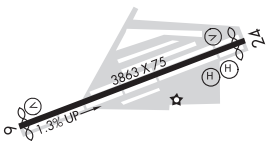


ELEV 1444 TDZE 1430

VGSI and descent angles not coincident (VGSI Angle 4.00/TCH 34).







CATEGORY	A	B	C	D
LP MDA	1780-1	350 (400-1)	1780-1⅛ 350 (400-1⅛)	NA
LNAV MDA	1940-1	510 (500-1)	1940-1⅝ 510 (500-1⅝)	NA
C CIRCLING	2020-1	576 (600-1)	2140-2 696 (700-2)	NA

MIRL Rwy 6-24 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

UPLAND, CALIFORNIA

AL-5203 (FAA)

20310

VOR-A

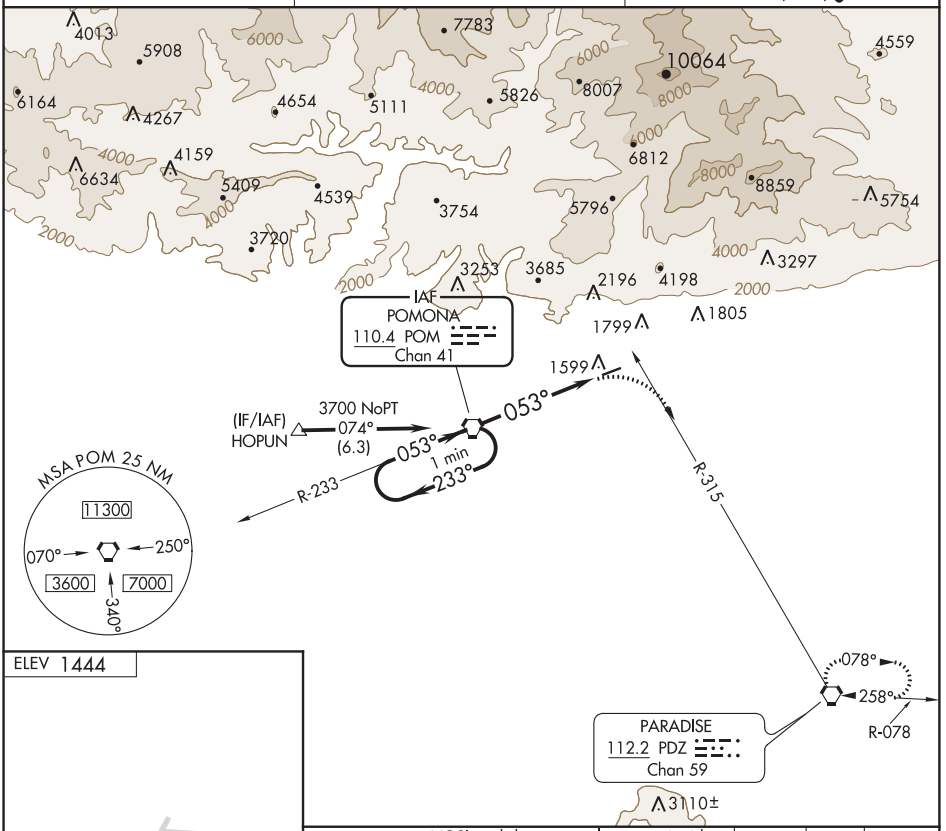
CABLE (CCB)

VORTAC POM	APP CRS	Rwy Idg	N/A
110.4	053°	TDZE	N/A
Chan 41		Apt Elev	1444

T NA — Circling NA northwest of Rwy 6-24. Procedure NA at night. When local altimeter setting not received, use Ontario altimeter setting and increase all MDA 100 feet and all visibilities ½ SM. Rwy 24 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 4000 via heading 105° and PDZ R-315 to PDZ VORTAC and hold.

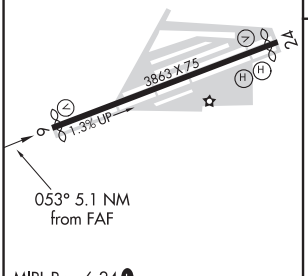
AWOS-3P	SOCAL APP CON	UNICOM
119.525	125.5 349.0	123.0 (CTAF) L



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

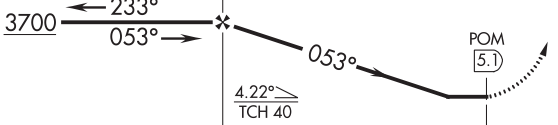
ELEV 1444



MIRL Rwy 6-24 L

VGSI and descent angles not coincident (VGSI Angle 4.00/ TCH 34).

One Minute Holding Pattern



4000 hdg 105° | PDZ R-315 | PDZ

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

CATEGORY	A	B	C	D
C CIRCLING	2240-1 796 (800-1)		2240-2¼ 796 (800-2¼)	NA

UPLAND, CALIFORNIA

Orig-C 26MAR20

34°07'N-117°41'W

CABLE (CCB)

VOR-A

ILS Y RWY 16R

VAN NUYS (VNY)

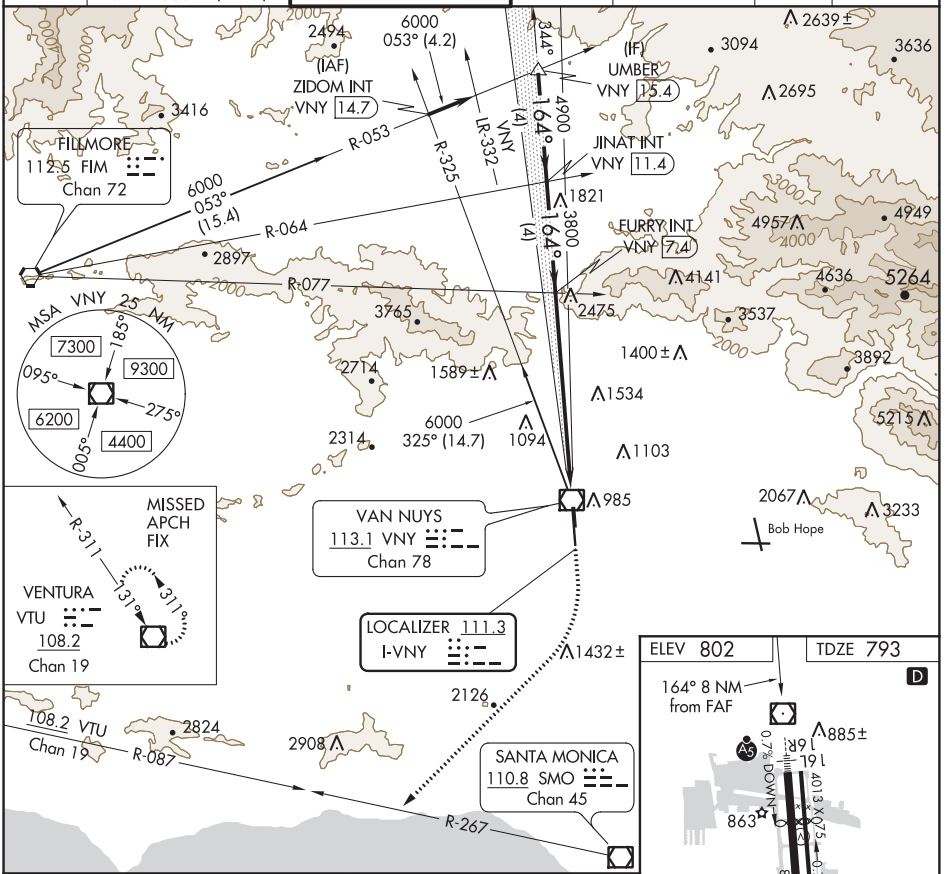
LOC I-VNY	APP CRS	Rwy Idg	6569
111.3	164°	TDZE	793
		Apt Elev	802

T For inop MALSR, increase S-ILS all Cats visibility to 2 SM. When A local altimeter setting not received, use Burbank altimeter setting and increase DA to 1480 feet and all Cats visibility to 1⅝ SM.

MALSR

MISSED APPROACH: Climb to 1700 then climbing right turn to 4600 on heading 210° and on SMO VOR/DME R-267 and on VTU VOR/DME R-087 to VTU VOR/DME and hold.

ATIS	SOCAL APP CON	VAN NUYS TOWER★	GND CON	CLNC DEL	CPDLC	UNICOM
127.55	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	119.3 (CTAF) L 239.0	121.7	126.6 239.0		122.95



CATEGORY	A	B	C	D
S-ILS 16R	1461-1½	668 (700-1½)		

HIRL Rwy 16R-34L L
MIRL Rwy 16L-34R

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VAN NUYS, CALIFORNIA | AL-552 (FAA) | 19339

ILS Z RWY 16R

VAN NUYS (VNY)

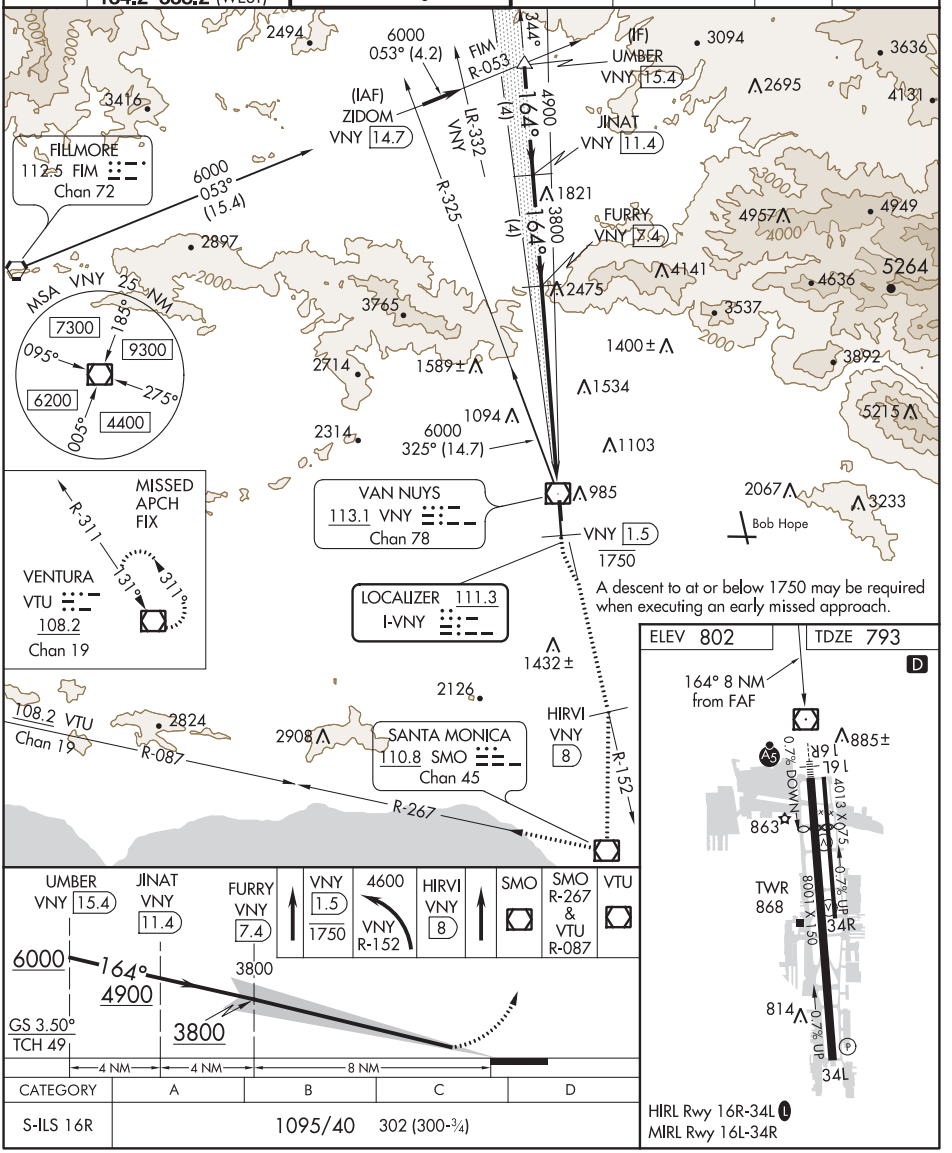
LOC I-VNY	APP CRS	Rwy Idg	6569
111.3	164°	TDZE	793
		Apt Elev	802

DME required. RADAR required for monitoring of missed approach. When local altimeter setting not received, use Burbank altimeter setting and increase DA to 1114. Rwy 16R helicopter visibility reduction below RVR 4000 NA. For inop ALS, increase S-ILS 16R all Cats visibility to RVR 5000.

MALSR

MISSED APPROACH: Climb to cross VNY 1.5 DME south of VNY VOR/DME at or below 1750 then climbing left turn to 4600 on VNY VOR/DME R-152 to HIRVI/VNY VOR/DME 8 DME, direct SMO VOR/DME then on SMO VOR/DME R-267 then on VTU VOR/DME R-087 to VTU VOR/DME and hold.

ATIS	SOCAL APP CON	VAN NUYS TOWER★	GND CON	CLNC DEL	CPDLC	UNICOM
127.55	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	119.3 (CTAF) L 239.0	121.7	126.6 239.0		122.95



VAN NUYS, CALIFORNIA
Amdt 1 15SEP16

34°13′N-118°29′W

VAN NUYS (VNY)

ILS Z RWY 16R

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LOC I-BUR	APP CRS	Rwy Idg	N/A
109.5	079°	TDZE	N/A
		Apt Elev	802

LDA-C
VAN NUYS (VNY)

T A Circling Rwy 16L NA at night.

MISSED APPROACH: Climb to 1900 then climbing right turn to 4600 on heading 210° and on SMO VOR/DME R-267 and on VTU VOR/DME R-087 to VTU VOR/DME and hold.

ATIS	SOCAL APP CON	VAN NUYS TOWER*	GND CON	CLNC DEL	CPDLC	UNICOM
127.55	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	119.3 (CTAF) L 239.0	121.7	126.6 239.0		122.95

IAF FILLMORE 112.5 FIM Chan 72

Procedure NA for arrivals on FIM VORTAC airway radials 087 CW 148.

ALTERNATE MISSED APCH FIX 113.1 VNY R-101 Chan 78 AMTRA VNY 20.2

MSA VNY 25 NM 7300 9300 6200 4400 185° 095° 275° 005°

4600 NoPT 136° (10.5)

VAN NUYS 113.1 VNY Chan 78

VNY LR-257 R-054

(IAF) SILEX INT VNY 6.1 4400 242° (6.1)

259° VNY LR-248 3400 079° (8.3) 079° 1 min 259° 079° R-242

4600 NoPT 054° (14.5)

(IF) TOAKS VTU 14.5 R-136

BUDDE OM/INT R-164 R-316

IAF VENTURA 108.2 VTU Chan 19

LOCALIZER 109.5 I-BUR

108.2 VTU R-087 Chan 19

SANTA MONICA 110.8 SMO Chan 45

MISSED APCH FIX R-311 131° 311°

VENTURA VTU 108.2 Chan 19

4600 316° (18.4)

LOS ANGELES 113.6 LAX Chan 83

ELEV 802 D

TWR 868

079° 6 NM from FAF

BUDDE OM/INT

HIRL Rwy 16R-34L L
MIRL Rwy 16L-34R

1900	4600	SMO R-267 & VTU R-087	VTU
	hdg 210°		

One Minute Holding Pattern

SILEX INT VNY 6.1

3700 259° 079° 3400 079°

BUDDE OM/INT

Disregard glide slope indications

6 NM

FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

CATEGORY	A	B	C	D
C CIRCLING	1500-1	698 (700-1)	1500-2 698 (700-2)	2060-3 1258 (1300-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VAN NUYS, CALIFORNIA | AL-552 (FAA) | 20310

VOR-A

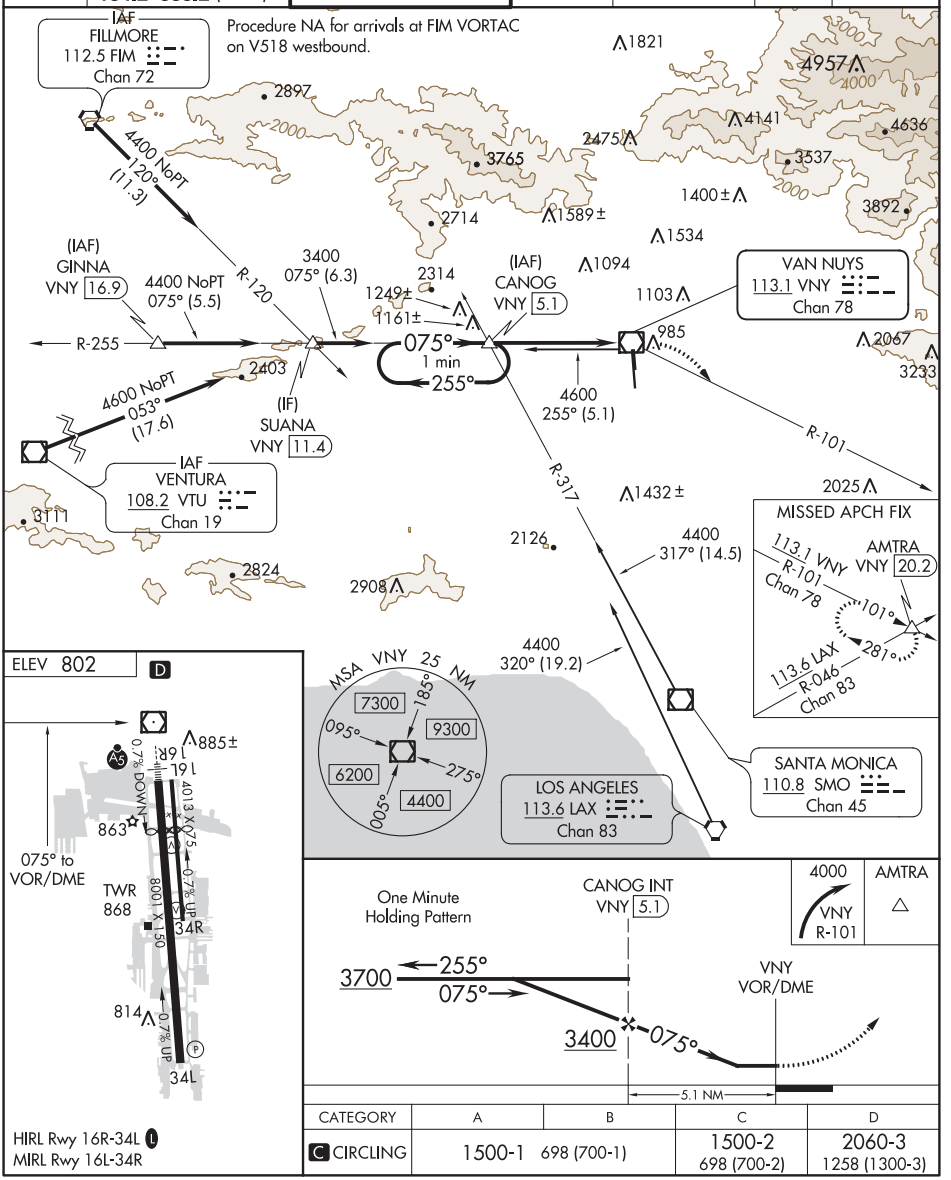
VAN NUYS (VNY)

VOR/DME VNY 113.1 Chan 78	APP CRS 075°	Rwy Idg N/A TDZE N/A Apt Elev 802

Circling Rwy 16L NA at night.

MISSED APPROACH: Climbing right turn to 4000 on VNY VOR/DME R-101 to AMTRA INT/20.2 DME and hold.

ATIS	SOCAL APP CON	VAN NUYS TOWER*	GND CON	CLNC DEL	CPDLC	UNICOM
127.55	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	119.3 (CTAF) L 239.0	121.7	126.6 239.0		122.95



CATEGORY	A	B	C	D
C CIRCLING	1500-1	698 (700-1)	1500-2 698 (700-2)	2060-3 1258 (1300-3)

HIRL Rwy 16R-34L L
MIRL Rwy 16L-34R

VAN NUYS, CALIFORNIA
Amdt 4D 20JUN19

34°13′N-118°29′W

VAN NUYS (VNY)
VOR-A

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VOR/DME VNY	APP CRS	Rwy Idg	N/A
113.1	155°	TDZE	N/A
Chan 78		Apt Elev	802

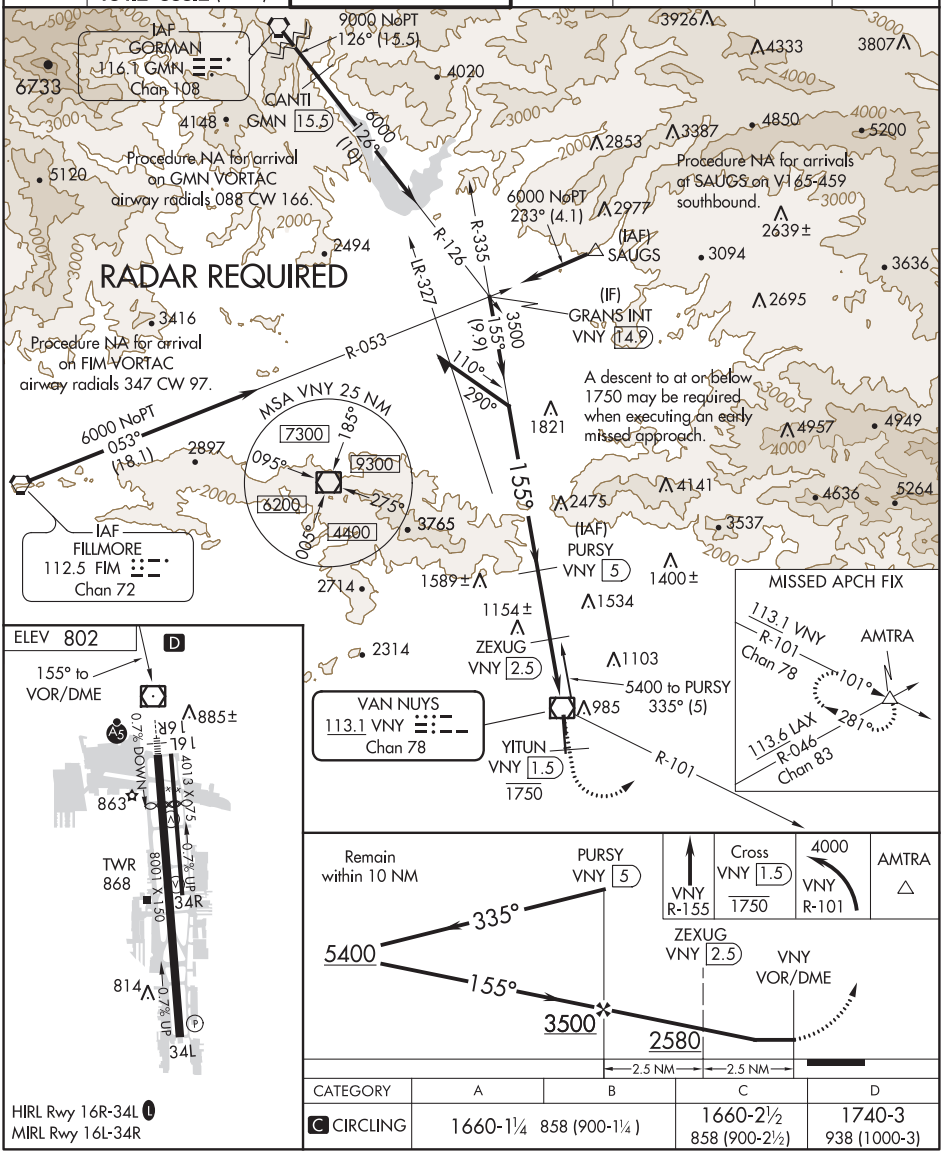
VOR-B

VAN NUYS (VNY)

DME required and RADAR required for monitoring of missed approach.
Circling Rwy 16L NA at night. Circling NA for Cat D west of Rwy 16R-34L. When local altimeter setting not received, use Burbank altimeter setting and increase all MDAs 20 feet.

MISSED APPROACH: Climb on VNY VOR/DME R-155 to cross YITUN/VNY 1.5 DME at or below 1750 then climbing left turn to 4000 on VNY VOR/DME R-101 to AMTRA INT and hold.

ATIS	SOCAL APP CON	VAN NUYS TOWER★	GND CON	CLNC DEL	CPDLC	UNICOM
127.55	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	119.3 (CTAF) L 239.0	121.7	126.6 239.0		122.95



CATEGORY	A	B	C	D
C CIRCLING	1660-1¼ 858 (900-1¼)		1660-2½ 858 (900-2½)	1740-3 938 (1000-3)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

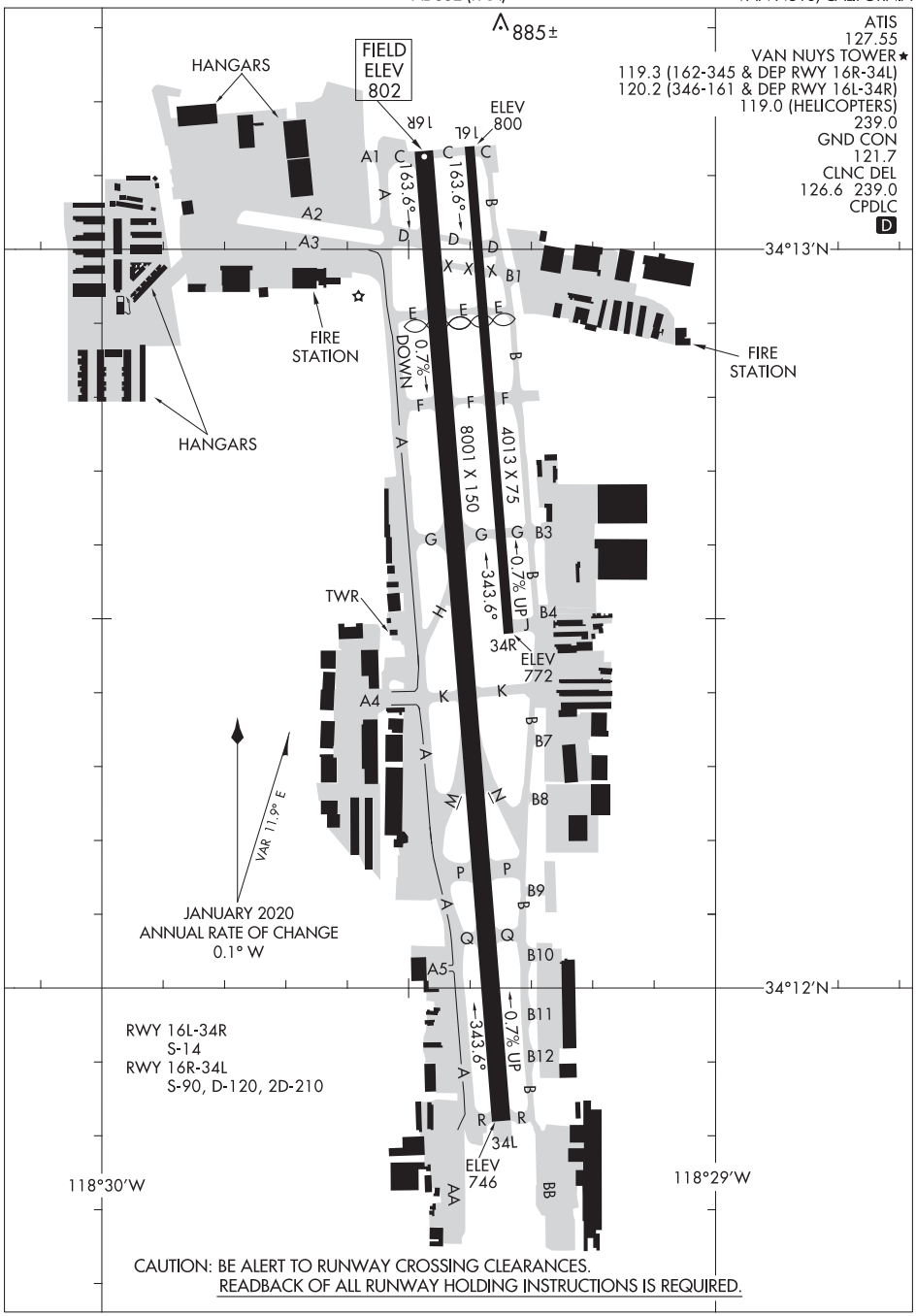
20198

AIRPORT DIAGRAM

AL-552 (FAA)

VAN NUYS (VNY)

VAN NUYS, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

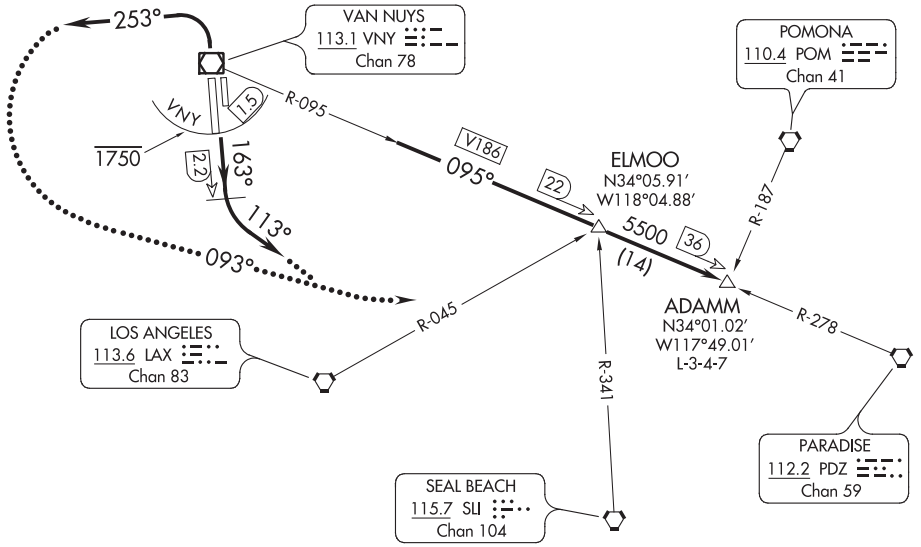
20198

VAN NUYS, CALIFORNIA
VAN NUYS (VNY)

ATIS
127.55
CLNC DEL
126.6 239.0
CPDLC
GND CON
121.7
SOCAL DEP CON
124.6 298.85

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 16L: Standard with minimum climb of 380′ per NM to 2600.
Rwy 16R: Standard with minimum climb of 450′ per NM to 2600.
Rwys 34L/R: Standard with minimum climb of 480′ per NM to 4200.



NOTE: RADAR required.
NOTE: DME required.
NOTE: Cross VNY DME 1.5 DME south at or below 1750.
NOTE: Chart not to scale.

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R: Climb on heading 163° until VNY 2.2 DME, then climbing left turn heading 113°, FOR RADAR VECTORS to VNY R-095 to ADAMM, thence. . . .

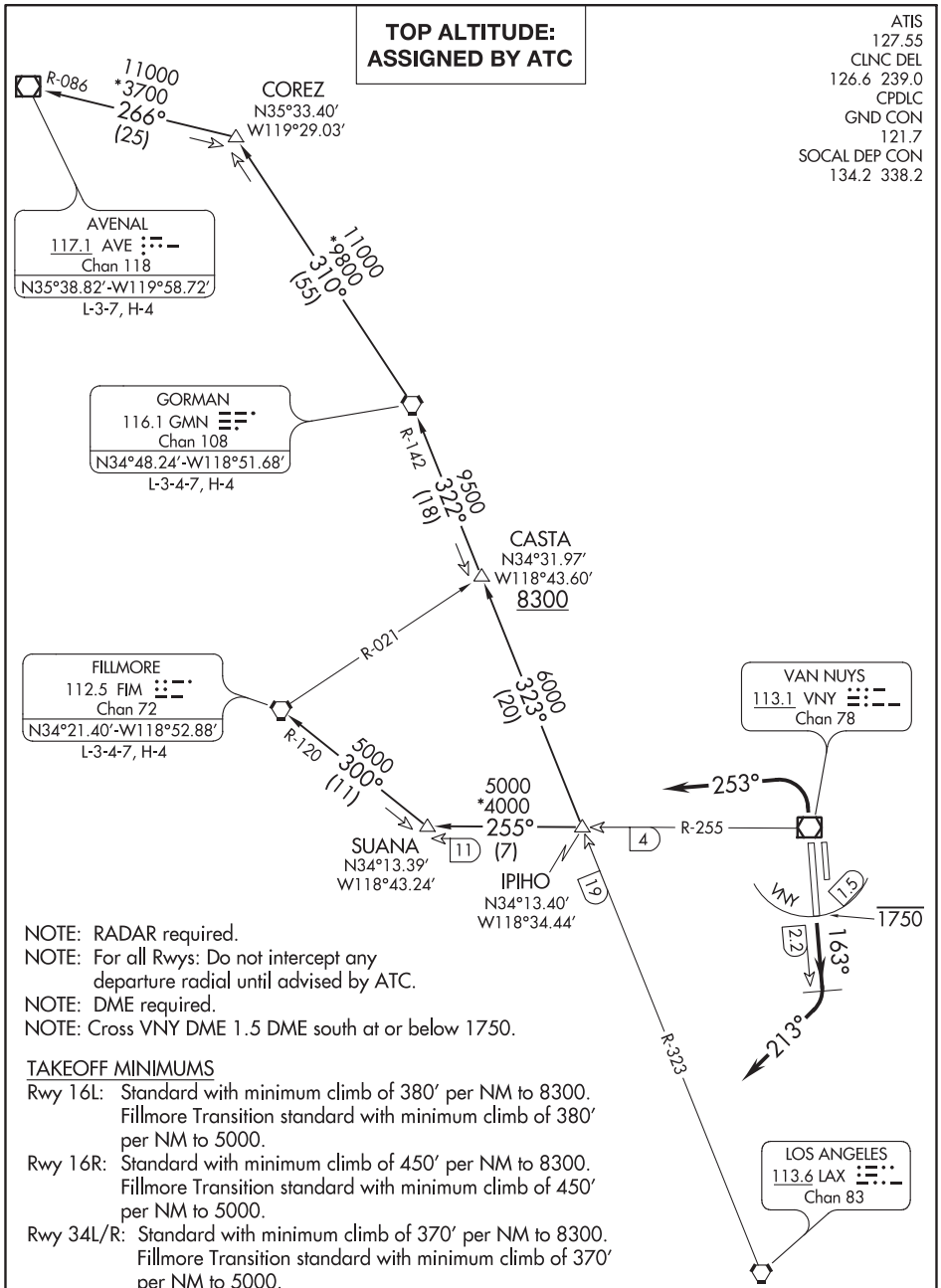
TAKEOFF RUNWAYS 34L/R: Climbing left turn heading 253°, FOR RADAR VECTORS to VNY R-095 to ADAMM, thence. . . .

. . . .on (transition) or (assigned route). Maintain ATC assigned altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within 3 NM, turn left heading 093° to intercept VNY R-095 to ADAMM INT maintain 5500′ or as assigned.

(CANOG3.IPIHO) 20030
CANOGA THREE DEPARTURE
AL-552 (FAA)

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA



NOTE: RADAR required.
NOTE: For all Rwys: Do not intercept any departure radial until advised by ATC.
NOTE: DME required.
NOTE: Cross VNY DME 1.5 DME south at or below 1750.

TAKEOFF MINIMUMS
Rwy 16L: Standard with minimum climb of 380′ per NM to 8300. Fillmore Transition standard with minimum climb of 380′ per NM to 5000.
Rwy 16R: Standard with minimum climb of 450′ per NM to 8300. Fillmore Transition standard with minimum climb of 450′ per NM to 5000.
Rwy 34L/R: Standard with minimum climb of 370′ per NM to 8300. Fillmore Transition standard with minimum climb of 370′ per NM to 5000.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-3, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R: Climb on heading 163° until VNY 2.2 DME, then climbing right turn heading 213°, FOR RADAR VECTORS to IPIHO, thence . . .

TAKEOFF RUNWAYS 34L/R: Climbing left turn heading 253°, FOR RADAR VECTORS to IPIHO, thence . . .

. . . on (transition) or (assigned route). Maintain ATC assigned altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within 3 NM:
Rwys 16L/R intercept the LAX R-323 and GMN R-142. Then as assigned.
Rwys 34L/R intercept VNY R-255. Then as assigned.

AVENAL TRANSITION (CANOG3.AVE): From over IPIHO on LAX R-323 and GMN R-142 to CASTA, then on GMN R-142 to GMN VORTAC, then on GMN R-310 to COREZ, then on AVE R-086 to AVE VOR/DME.

FILLMORE TRANSITION (CANOG3.FIM): From over IPIHO on VNY R-255 to SUANA, then on FIM VORTAC R-120 to FIM VORTAC.

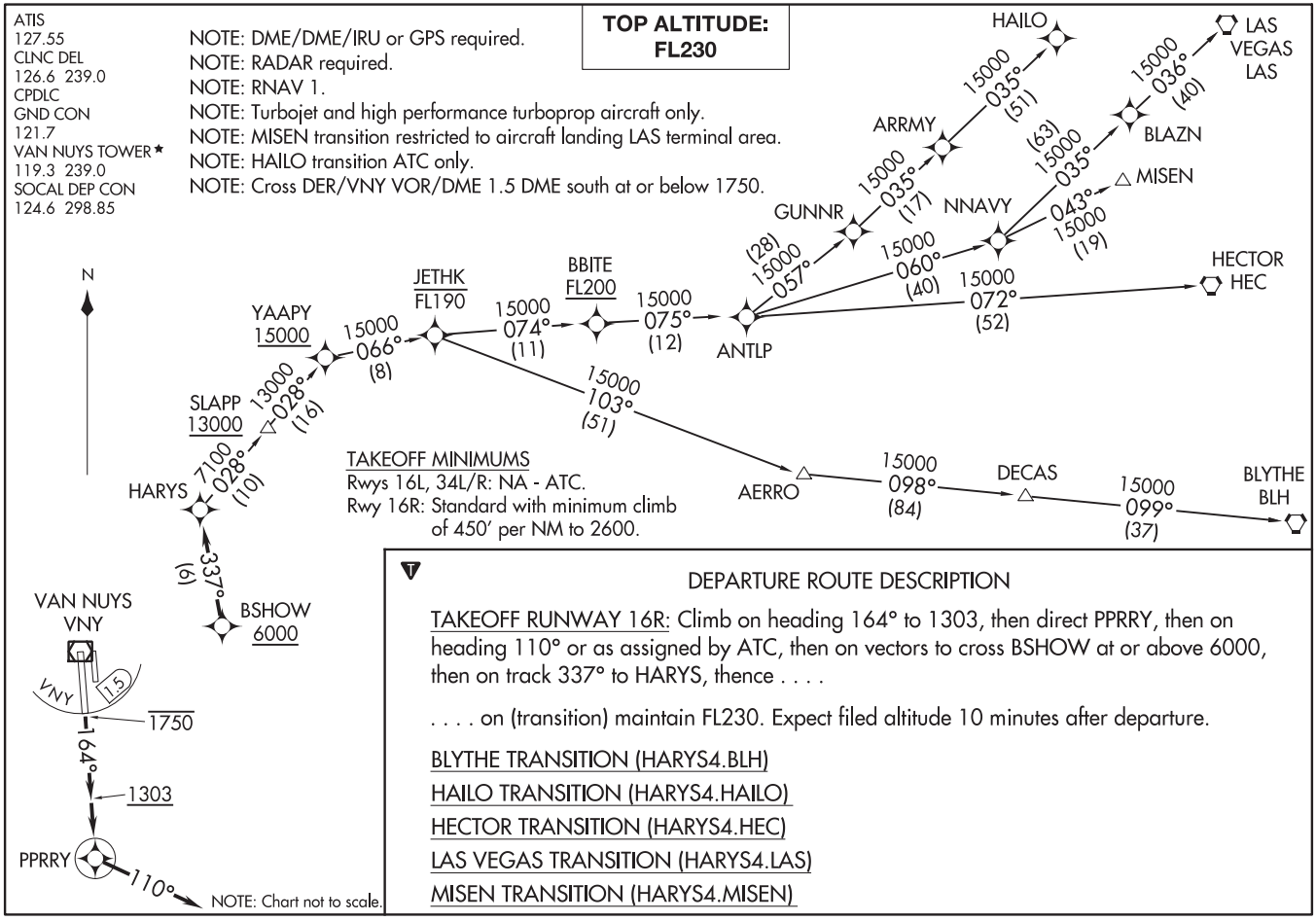
GORMAN TRANSITION (CANOG3.GMN): From over IPIHO on LAX R-323 and GMN R-142 to CASTA, then on GMN R-142 to GMN VORTAC.

SW-3, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: FL230

ATIS
127.55
CLNC DEL
126.6 239.0
CPDLC
GND CON
121.7
VAN NUYS TOWER★
119.3 239.0
SOCAL DEP CON
124.6 298.85

NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Turbojet and high performance turboprop aircraft only.
NOTE: MISEN transition restricted to aircraft landing LAS terminal area.
NOTE: HAILO transition ATC only.
NOTE: Cross DER/VNY VOR/DME 1.5 DME south at or below 1750.



TAKEOFF MINIMUMS
Rwys 16L, 34L/R: NA - ATC.
Rwy 16R: Standard with minimum climb of 450′ per NM to 2600.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16R: Climb on heading 164° to 1303, then direct PPRRY, then on heading 110° or as assigned by ATC, then on vectors to cross BSHOW at or above 6000, then on track 337° to HARYS, thence . . . .

. . . . on (transition) maintain FL230. Expect filed altitude 10 minutes after departure.

BLYTHE TRANSITION (HARYS4.BLH)
HAILO TRANSITION (HARYS4.HAILO)
HECTOR TRANSITION (HARYS4.HEC)
LAS VEGAS TRANSITION (HARYS4.LAS)
MISEN TRANSITION (HARYS4.MISEN)

SW-3, 05 NOV 2020 to 31 DEC 2020
HARYS FOUR DEPARTURE (RNAV)
(HARYS4.HARYS) 10SEP20
VAN NUYS, CALIFORNIA
VAN NUYS (VNY)

HAYEZ NINE DEPARTURE (RNAV)

(HAYEZ9.HAYEZ) 20254

HAYEZ NINE DEPARTURE (RNAV)

AL-552 (FAA)

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 34L: Climb on heading 344° to 1303, then climb direct to cross CONDS at or above 2400, then on track 337° to cross TRAFF at or above 3500, then on track 338° to cross LYDEY at or above 5000, then on track 338° to cross HAYEZ at or above 6100 and at or below 250K, thence . . . .

. . . . on (transition) maintain FL230. Expect filed altitude ten minutes after departure.

BLYTHE TRANSITION (HAYEZ9.BLH)

COREZ TRANSITION (HAYEZ9.COREZ)

CSTRO TRANSITION (HAYEZ9.CSTRO)

FILLMORE TRANSITION (HAYEZ9.FIM)

HAILO TRANSITION (HAYEZ9.HAILO)

HECTOR TRANSITION (HAYEZ9.HEC)

LAS VEGAS TRANSITION (HAYEZ9.LAS)

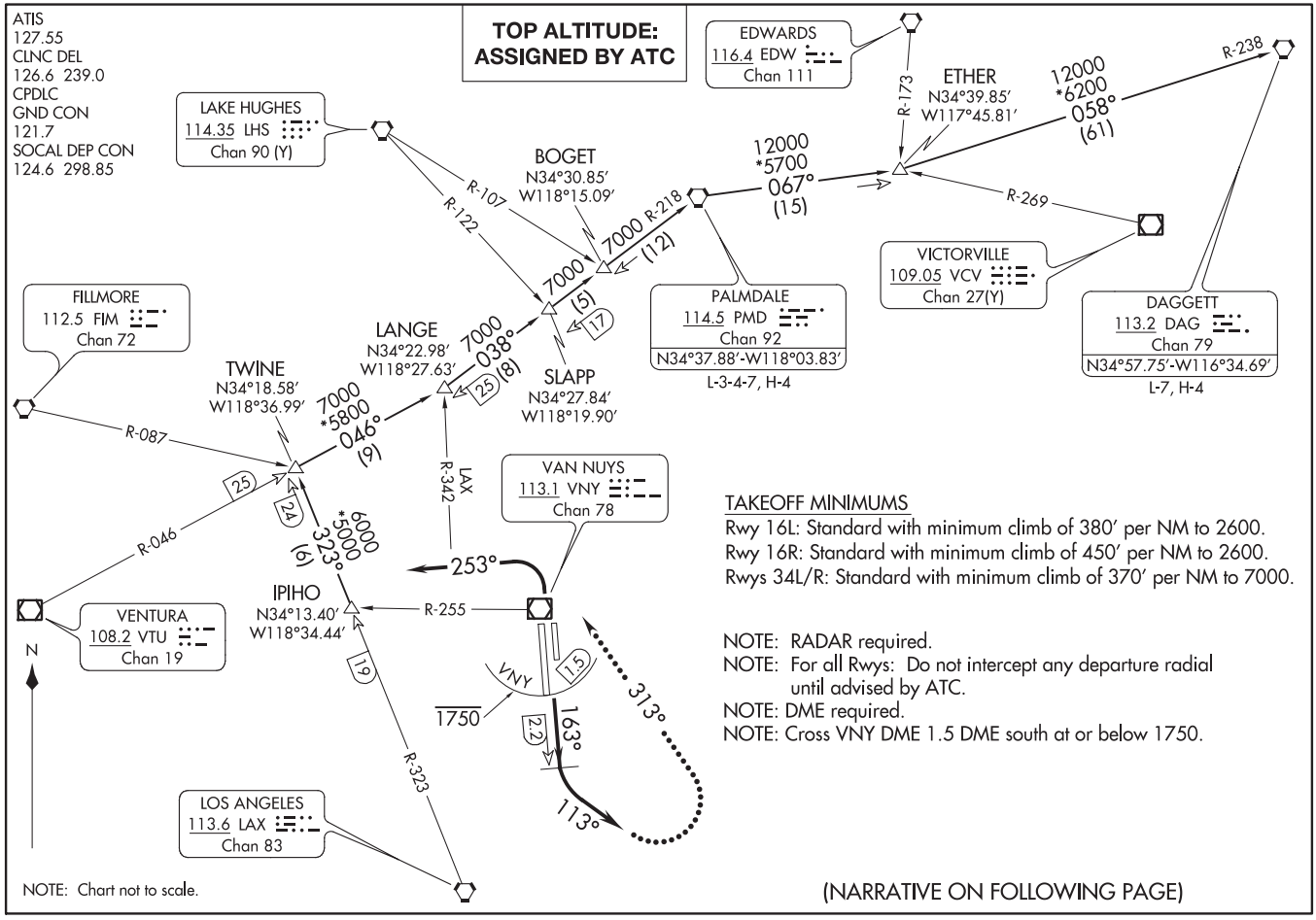
MISEN TRANSITION (HAYEZ9.MISEN)

SW-3, 05 NOV 2020 to 31 DEC 2020

NEWHALL ONE DEPARTURE

(NUAL1.IPIHO) 30JAN20

VAN NUYS, CALIFORNIA
VAN NUYS (VNY)



TAKEOFF MINIMUMS

Rwy 16L: Standard with minimum climb of 380′ per NM to 2600.
Rwy 16R: Standard with minimum climb of 450′ per NM to 2600.
Rwys 34L/R: Standard with minimum climb of 370′ per NM to 7000.

NOTE: RADAR required.
NOTE: For all Rwys: Do not intercept any departure radial until advised by ATC.
NOTE: DME required.
NOTE: Cross VNY DME 1.5 DME south at or below 1750.

(NARRATIVE ON FOLLOWING PAGE)

NEWHALL ONE DEPARTURE
(NUAL1.IPIHO) 20310
AL-552 (FAA)
VAN NUYS (VNY)
VAN NUYS, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R: Climb on heading 163° until VNY 2.2 DME, then climbing left turn heading 113°, FOR RADAR VECTORS to IPIHO, thence. . . .

TAKEOFF RUNWAYS 34L/R: Climbing left turn heading 253°, FOR RADAR VECTORS to IPIHO thence. . . .

. . . .on (transition) or (assigned route). Maintain ATC assigned altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within 5 DME from VNY VOR/DME, Rwys 16L/R; turn left heading 313° to intercept the LAX R-342; and continue the published procedure.

DAGGETT TRANSITION (NUAL1.DAG): From over IPIHO on LAX R-323 to TWINE, then on VTU R-046 to LANGE, then on PMD R-218 to PMD VORTAC, then on PMD R-067 to ETHER, then on DAG R-238 to DAG VORTAC.

PALMDALE TRANSITION (NUAL1.PMD): From over IPIHO on LAX R-323 to TWINE, then on VTU R-046 to LANGE, then on PMD R-218 to PMD VORTAC.

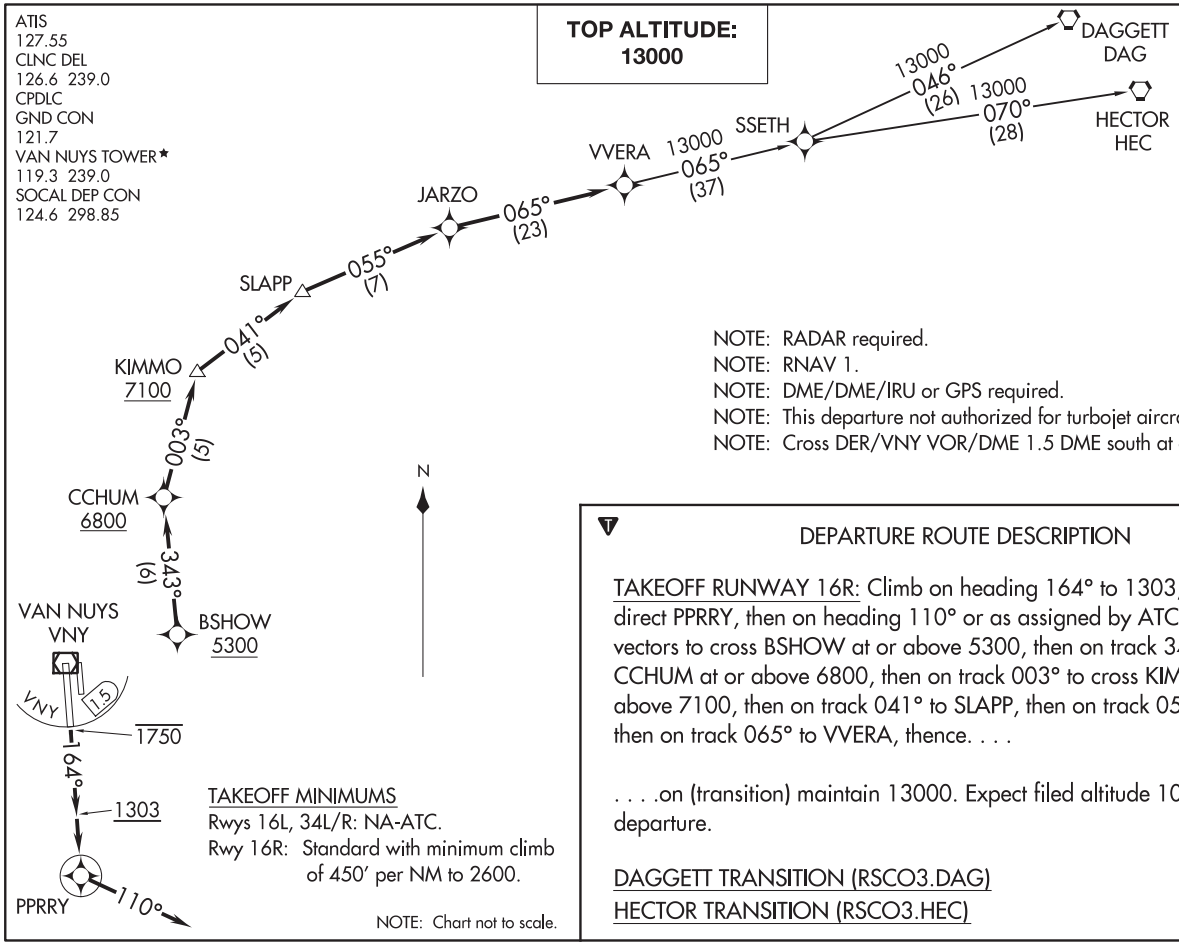
SW-3, 05 NOV 2020 to 31 DEC 2020

ROSCOE THREE DEPARTURE (RNAV)

(RSCO3.VVERA) 05DEC19

(RSCO3.VVERA) 19339

ROSCOE THREE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16R: Climb on heading 164° to 1303, then climb direct PPRRY, then on heading 110° or as assigned by ATC, then on vectors to cross BSHOW at or above 5300, then on track 343° to cross CCHUM at or above 6800, then on track 003° to cross KIMMO at or above 7100, then on track 041° to SLAPP, then on track 055° to JARZO, then on track 065° to VVERA, thence. . . .

. . . .on (transition) maintain 13000. Expect filed altitude 10 minutes after departure.

DAGGETT TRANSITION (RSCO3.DAG)
HECTOR TRANSITION (RSCO3.HEC)

VAN NUYS, CALIFORNIA
VAN NUYS (VNY)

AL-552 (FAA)

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA

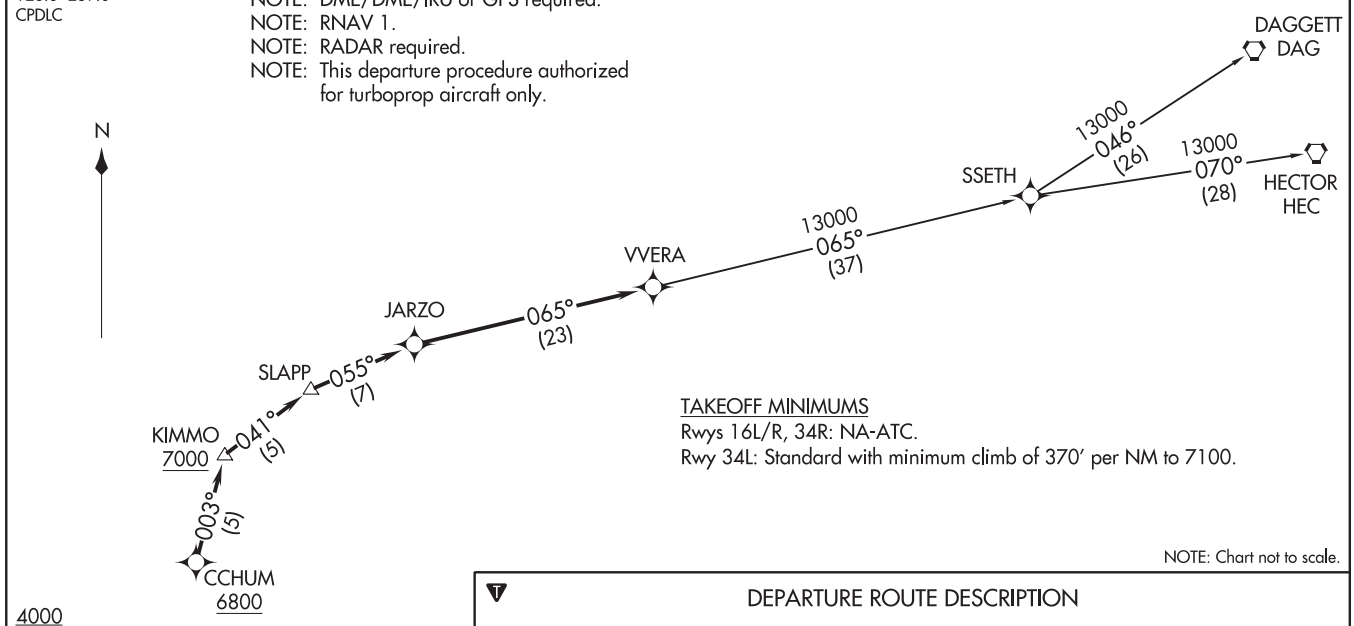
VVERA TWO DEPARTURE (RNAV)

(VVERA2.VVERA) 12OCT17

SOCAL DEP CON
134.2 338.2
CLNC DEL
126.6 239.0
CPDLC

TOP ALTITUDE: 13000

NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: This departure procedure authorized for turboprop aircraft only.



TAKEOFF MINIMUMS
Rwys 16L/R, 34R: NA-ATC.
Rwy 34L: Standard with minimum climb of 370' per NM to 7100.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 34L: Climbing left turn heading 250° to 4000, expect vectors to cross CCHUM at or above 6800, then on track 003° to cross KIMMO at or above 7000, then on depicted route to VVERA, thence . . . .

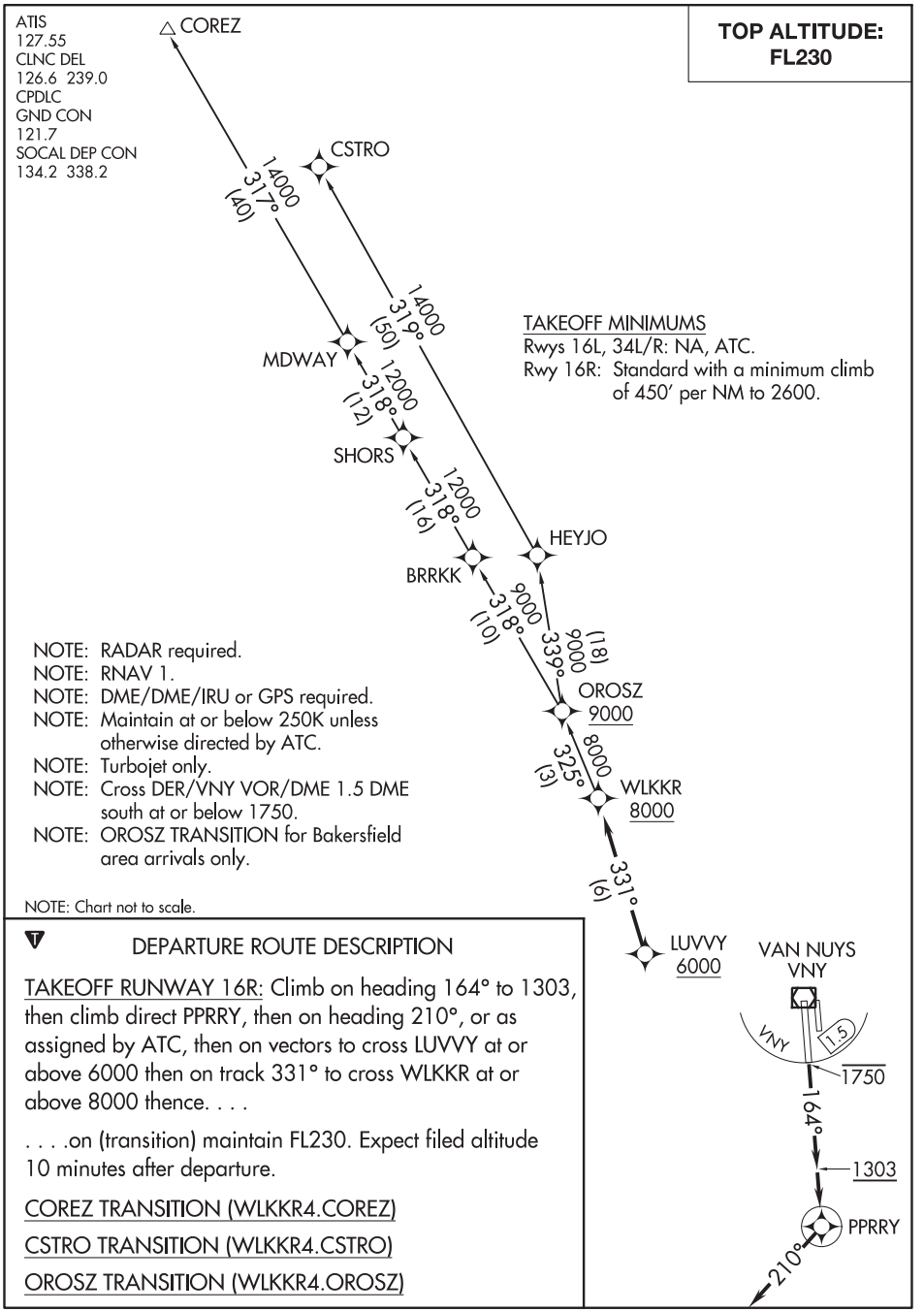
. . . . on (transition). Maintain 13000. Expect filed altitude 10 minutes after departure.

DAGGETT TRANSITION (VVERA2.DAG)
HECTOR TRANSITION (VVERA2.HEC)

VAN NUYS, CALIFORNIA
VAN NUYS (VNY)

(VVERA2.VVERA) 19339
VVERA TWO DEPARTURE (RNAV)
VAN NUYS (VNY)
VAN NUYS, CALIFORNIA

AL-552 (FAA)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16R: Climb on heading 164° to 1303, then climb direct PPRRY, then on heading 210°, or as assigned by ATC, then on vectors to cross LUVVY at or above 6000 then on track 331° to cross WLKKR at or above 8000 thence. . . .

. . . .on (transition) maintain FL230. Expect filed altitude 10 minutes after departure.

COREZ TRANSITION (WLKKR4.COREZ)

CSTRO TRANSITION (WLKKR4.CSTRO)

OROSZ TRANSITION (WLKKR4.OROSZ)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LOMPOC, CALIFORNIA

ILS or LOC/DME RWY 12

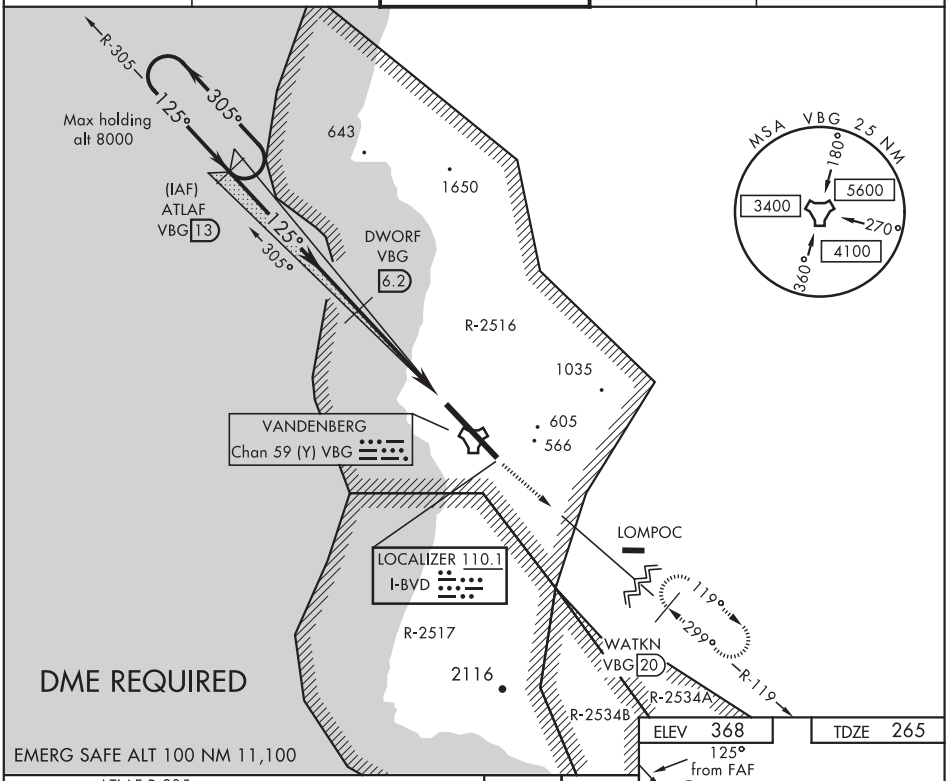
LOC I-BVD	APCH CRS	Rwy Idg / TDZE / Arpt Elev	AL-770 [USAF]	VANDENBERG AFB (KVBG)
110.1	125°	15,000 / 265 / 368		

T * 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 1¼ miles.

ALSF-2

MISSED APPROACH: Climb out VBG TACAN R-119 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.

ATIS	SANTA BARBARA APP/DEP CON	VANDENBERG TOWER ★	GND CON	CLNC DEL
133.125 257.975	124.15 327.8	124.95 L (CTAF) 326.2	121.75 275.8	121.75 275.8



CATEGORY	A	B	C	D	E
S-ILS 12 *	465/24		200 (100-½)		
S-LOC/DME 12 **	700/24 435 (400-½)		700/40 435 (400-¾)		
CIRCLING	980-1 612 (700-1)	1000-1 632 (700-1)	1020-1¾ 652 (700-1¾)	1180-2¾ 812 (900-2¾)	1560-3 1192(1200-3)

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-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LOMPOC, CALIFORNIA

ILS or LOC/DME RWY 30

VANDENBERG AFB (KVBG)

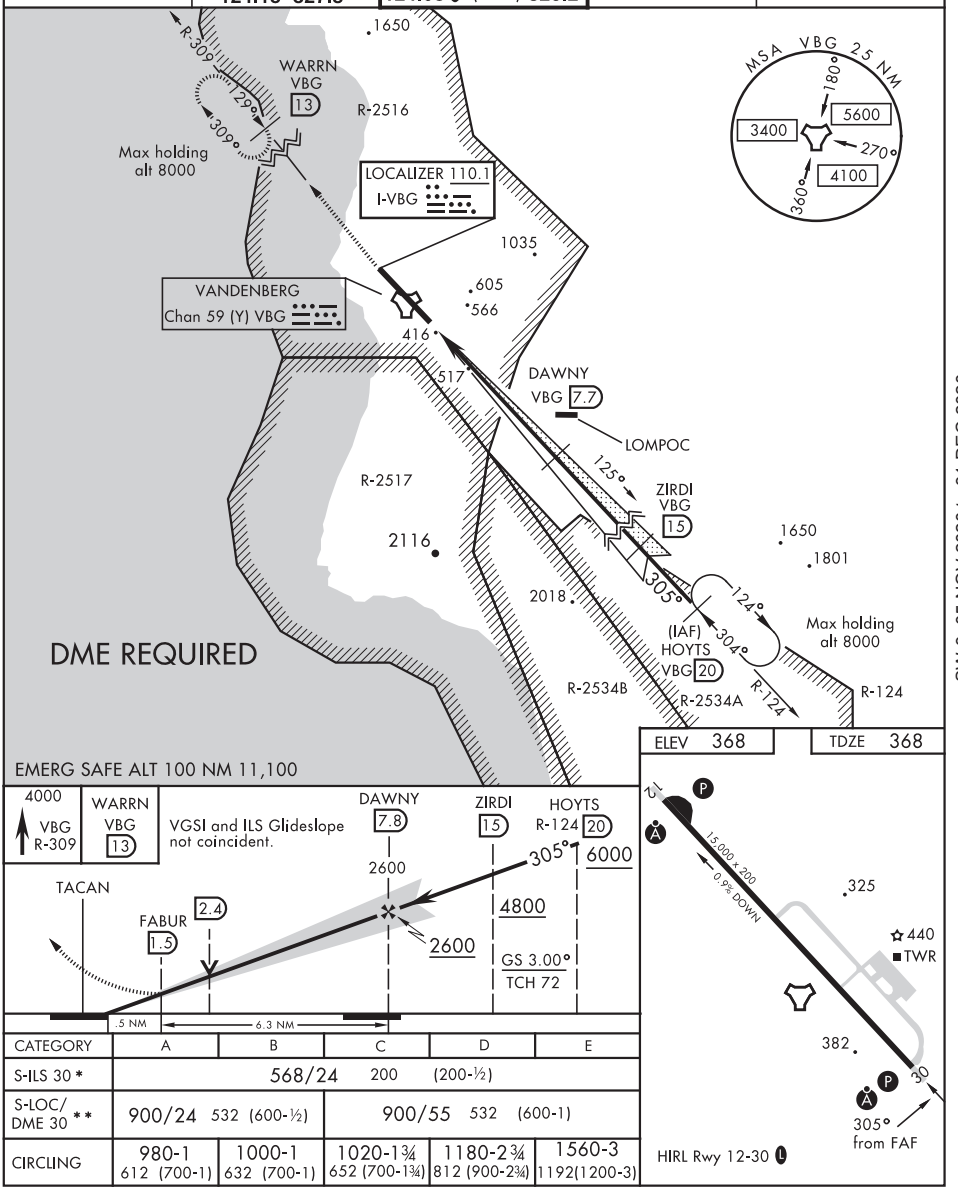
LOC I-VBG	APCH CRS	Rwy ldg 15,000 TDZE 368 Arpt Elev 368
110.1	305°	AL-770 [USAF]

▼ * When ALS inop, increase CAT ABCDE 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 1½ miles.

ALSF-2

MISSED APPROACH: Climb out VBG TACAN R-309 to WARRN and hold. Continue climb in hold maintain 4000.

ATIS	SANTA BARBARA APP/DEP CON	VANDENBERG TOWER ★	GND CON	CLNC DEL
133.125 257.975	124.15 327.8	124.95 (L) (CTAF) 326.2	121.75 275.8	121.75 275.8



CATEGORY	A	B	C	D	E
S-ILS 30 *	568/24 200 (200-½)				
S-LOC/DME 30 **	900/24 532 (600-½)		900/55 532 (600-1)		
CIRCLING	980-1 612 (700-1)	1000-1 632 (700-1)	1020-1¾ 652 (700-1¾)	1180-2¾ 812 (900-2¾)	1560-3 1192(1200-3)

LOMPOC, CALIFORNIA

Amdt 3 28FEB19

34°44'N-120° 35'W

VANDENBERG AFB (KVBG)

ILS or LOC/DME RWY 30

SW-3, 05 NOV 2020 to 31 DEC 2020

LOMPOC, CALIFORNIA

TACAN RWY 12

TACAN	APCH CRS	Rwy ldg	15,000
Chan 59(Y)	129°	TDZE	265
		Arpt Elev	368

AL-770 [USAF]

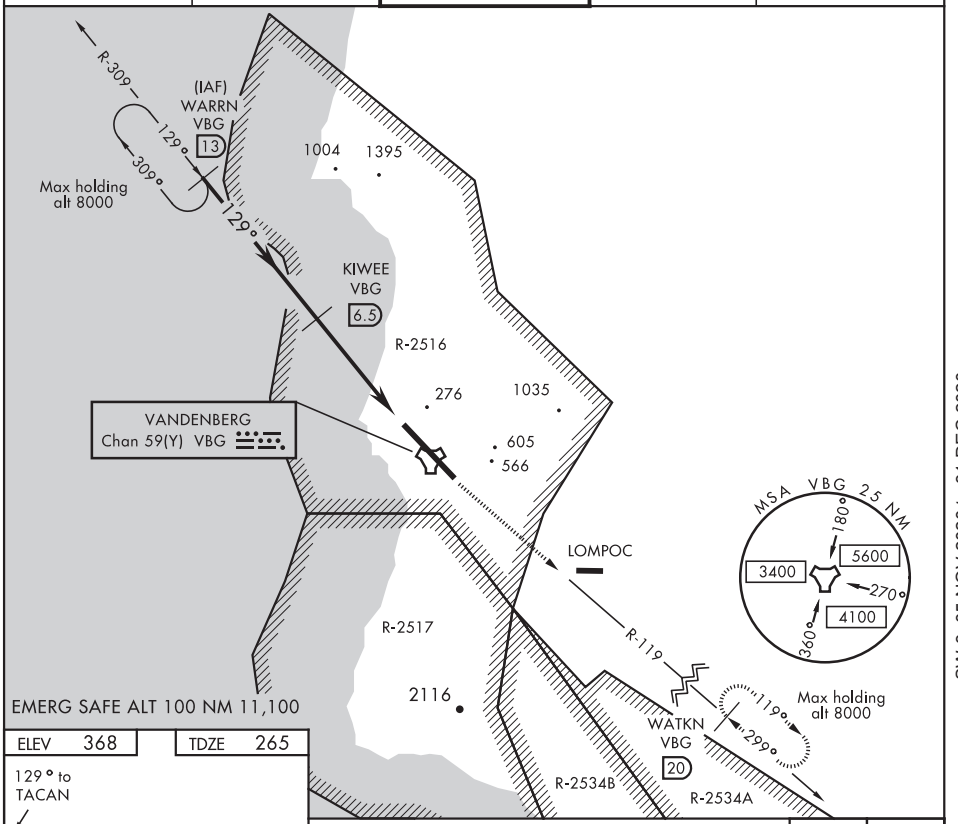
VANDENBERG AFB (KVBG)

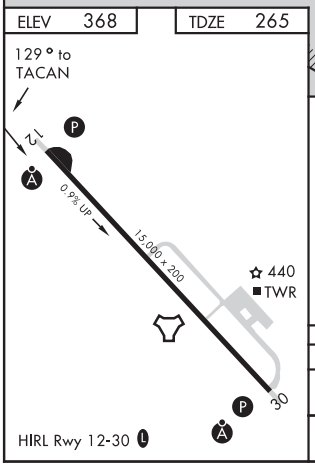
* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile; CAT CDE vis to 1⅜ miles.

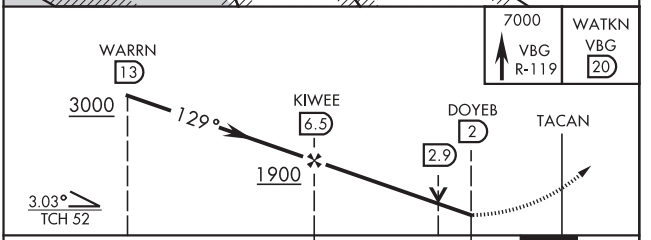
ALSF-2

MISSED APPROACH: Climb out VBG TACAN R-119 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.

ATIS	SANTA BARBARA APP/DEP CON	VANDENBERG TOWER ★	GND CON	CLNC DEL
133.125 257.975	124.15 327.8	124.95 (CTAF) 326.2	121.75 275.8	121.75 275.8







CATEGORY	A	B	C	D	E
S-12 *	740/24 475 (400-½)		740/50 475 (400-1)		
CIRCLING	980-1 612 (700-1)	1000-1 632 (700-1)	1020-1¾ 652 (700-1¾)	1180-2¾ 812 (900-2¾)	1560-3 1192(1200-3)

34°44'N-120°35'W

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

LOMPOC, CALIFORNIA

TACAN RWY 30

VANDENBERG AFB (KVBG)

TACAN VBG Chan 59(Y)	APCH CRS 299°	Rwy Idg 15,000 TDZE 368 Arpt Elev 368

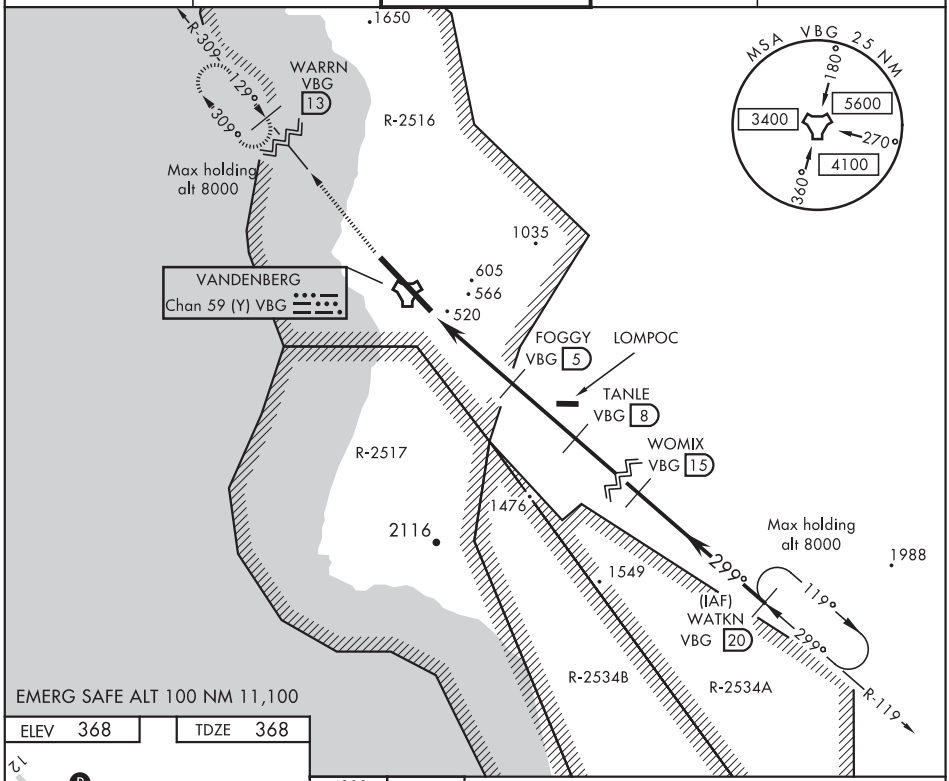
AL-770 [USAF]

* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1⅝ miles.

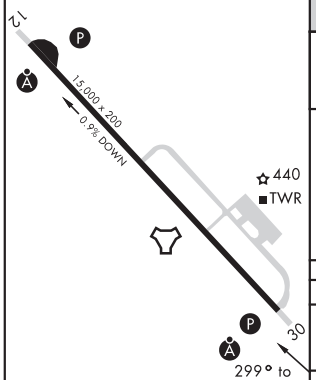
ALSF-2

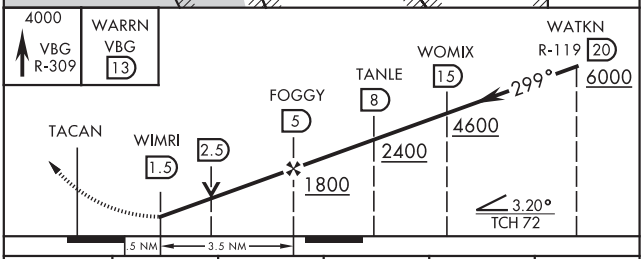
MISSED APPROACH: Climb out VBG TACAN R-309 to WARRN and hold. Continue climb in hold maintain 4000.

ATIS	SANTA BARBARA APP/DEP CON	VANDENBERG TOWER ★	GND CON	CLNC DEL
133.125 257.975	124.15 327.8	124.95 (L) (CTAF) 326.2	121.75 275.8	121.75 275.8



ELEV 368	TDZE 368





CATEGORY	A	B	C	D	E
S-30 *	920/24 552 (600-½)		920/60 552 (600-1⅛)		
CIRCLING	980-1 612 (700-1)	1000-1 632 (700-1)	1020-1¾ 652(700-1¾)	1180-2¾ 812(900-2¾)	1560-3 1192(1200-3)

LOMPOC, CALIFORNIA

Amdt 4 28FEB19

34°44'N-120°35'W

VANDENBERG AFB (KVBG)

TACAN RWY 30

SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

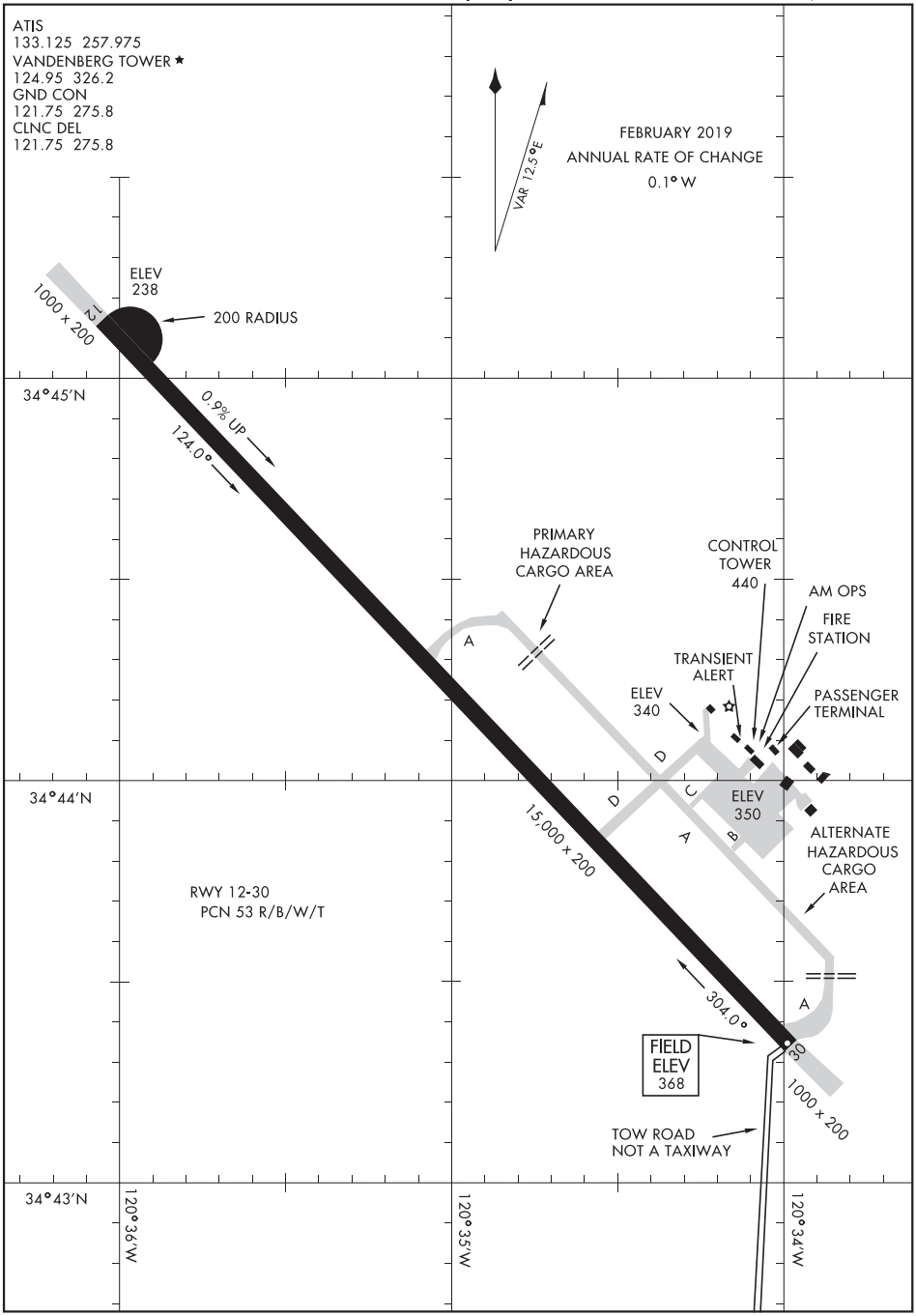
19059

AIRPORT DIAGRAM

VANDENBERG AFB (KVBG)

AFD-770 [USAF]

LOMPOC, CALIFORNIA



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

LOMPOC, CALIFORNIA

VANDENBERG AFB (KVBG)

GAVIOTA THREE DEPARTURE (GVO3·GVO)

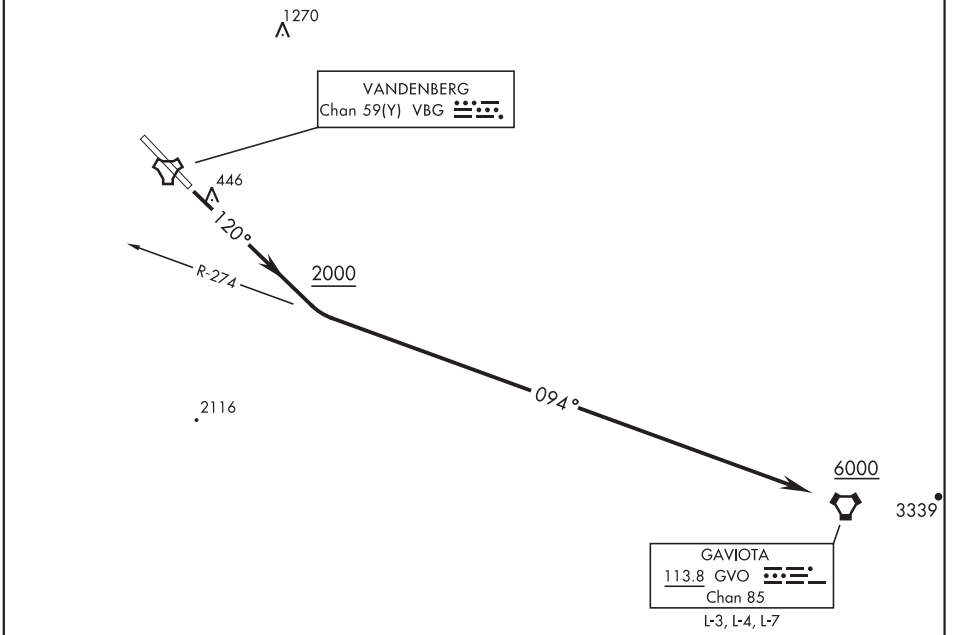
LOMPOC, CALIFORNIA

SL-770 [USAF]

Rwy	Knots	60	120	180	240	300	360
12	V/V(fpm)	330	660	990	1320	1650	1980

Minimum Climb Rate to 1500.

ATIS
133.125 257.975
GND CON
121.75 275.8
CLNC DEL
121.75 275.8
VANDENBERG TOWER ★
124.95 326.2
SANTA BARBARA DEP CON
124.15 327.8



Use extreme caution for extensive UAS ops in the vicinity

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 12: Climb on track 120° to 2000. Then climbing left turn to intercept the GVO VORTAC R-274 inbound to GVO. Cross GVO at or above 6000. Expect vectors to first filed fix/route prior to GVO.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

19059

VANDENBERG AFB (KVBG)

VANDENBERG THREE DEPARTURE (VBG3·MQO)

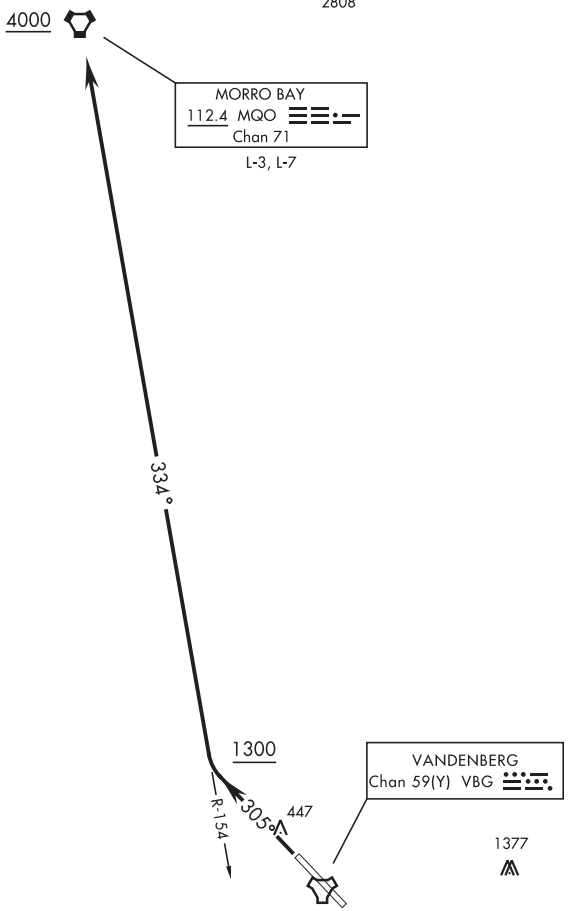
LOMPOC, CALIFORNIA

ATIS
133.125 257.975
GND CON
121.75 275.8
CLNC DEL
121.75 275.8
VANDENBERG TOWER ★
124.95 326.2
SANTA BARBARA DEP CON
124.15 327.8

SL-770 [USAF]

Rwy	Knots	60	120	180	240	300	360
30	V/V(fpm)	280	560	840	1120	1400	1680

2808 ● Minimum Climb Rate to 700.



Use extreme caution for extensive UAS ops in the vicinity

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 30: Climb on track 305° to intercept MQO VORTAC R-154 at or above 1300 direct to MQO. Cross MQO at or above 4000. Expect vectors to first filed fix/route prior to MQO.

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

LOC I-VCV	APP CRS	Rwy Idg	15050
108.75	166°	TDZE	2825
		Apt Elev	2885

ILS or LOC RWY 17

SOUTHERN CALIFORNIA LOGISTICS (VCV)

When local altimeter setting not received, use Edwards AFB altimeter setting and increase all DA and MDA 160 feet. Increase all visibilities ½ mile. DME from VCV VOR/DME. Simultaneous reception of I-VCV and VCV DME required.

MISSED APPROACH: Climb to 3500, then climbing right turn to 6000 via heading 300° and VCV VOR/DME R-269 to ETHER INT and hold.

ATIS ★	JOSHUA APP CON	VICTORVILLE TOWER ★	GND CON
135.475	124.55 363.0	118.35 (CTAF) L 282.225	124.45

DME or RADAR REQUIRED

R-2515

BUCKHORN MOA

(IF) SCCAT VCV 12.2

R-346 346° LR-356

5200 VCV 12.2 Arc

BYTHE VCV 12.2

ALTERNATE MISSED APCH FIX 116.4 EDW R-172 Chan 111 081° 261° 114.5 PMD R-081 Chan 92 ZOREN PMD 15

MSA VCV 25 NM 7600 090° 270° 11300 10000 360°

4120

166° (6.1) 4300

R-011

VCV 12.2 6600 Arc

SUZZQ VCV 6.1 RADAR

4896

VICTORVILLE 109.05 VCV Chan 27(Y)

Procedure NA for arrivals at APLES via V394 and V442 southwest bound.

3450 R-269 2829 ± 2859 3098 ± 5000 4325 5273

3897

3114 3168 ± R-089

(IAF) APLES VCV 12.2

MISSED APCH FIX 116.4 EDW R-173 Chan 111 ETHER VCV 19 R-067 269° 109.05 VCV R-269 089° Chan 27(Y) 114.5 PMD Chan 92

LOCALIZER 108.75 I-VCV 3293

ELEV 2885 D TDZ 2825

17 166° 4.4 NM from FAF

0.5% UP 15050 X 150 0.5% DOWN 9138 X 150 0.4% UP 0.3% DOWN TWR 21 3 35

REIL Rwys 3, 21, 17 and 35

HIRL Rwys 3-21 and 17-35 L

SCCAT VCV 12.2 5200 Procedure Turn NA GS 3.00° TCH 54 166° 4300 SUZZQ VCV 6.1 RADAR 4300 VCV 1.7

6.1 NM 4.4 NM

3500	6000	VCV	ETHER
↑	hdg 300°	R-269	△

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 75).

FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

CATEGORY	A	B	C	D
S-ILS 17	3025/40 200 (200-¾)			
S-LOC 17	3080/50 255 (200-1)			
CIRCLING	3360-1 475 (500-1)	3420-1 535 (600-1)	3420-1½ 535 (600-1½)	3580-2¼ 695 (700-2¼)

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VICTORVILLE, CALIFORNIA | AL-794 (FAA) | 19171

WAAS	APP CRS		
CH 77523	166°	Rwy Idg	15050
W17A		TDZE	2825
		Apt Elev	2885

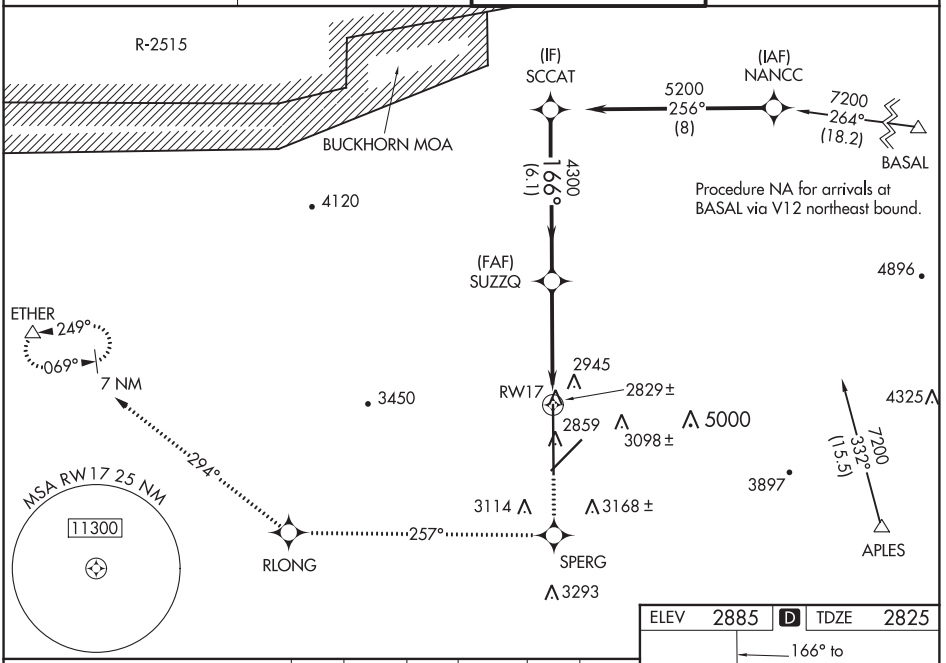
RNAV (GPS) RWY 17

SOUTHERN CALIFORNIA LOGISTICS (VCV)

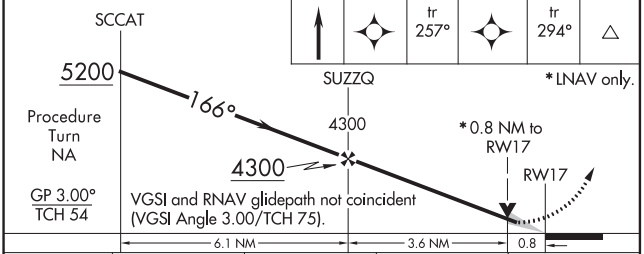
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F).
DME/DME RNP-0.3 NA.
When local altimeter setting not received, use Edwards AFB altimeter setting and increase all DA and MDA 160 feet. Increase all visibilities ¾ mile.
VDP and Baro-VNAV NA when using Edwards AFB altimeter setting.

MISSED APPROACH: Climb to 6000 direct SPERG and via 257° track to RLONG and via 294° track to ETHER and hold.

ATIS ★	JOSHUA APP CON	VICTORVILLE TOWER ★	GND CON
135.475	124.55 363.0	118.35 (CTAF) L 282.225	124.45



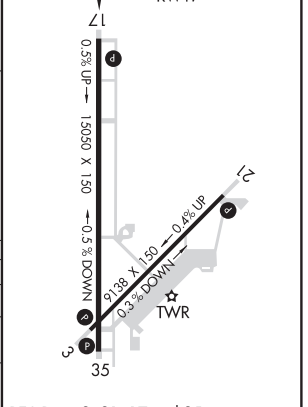
6000	SPERG	tr 257°	RLONG	tr 294°	ETHER



* LNAV only.

CATEGORY	A	B	C	D
LPV DA	3075/40	250 (200-¾)		
LNAV/VNAV DA	3240-1½	415 (400-1½)		
LNAV MDA	3140/50	315 (300-1)		
CIRCLING	3360-1 475 (500-1)	3420-1 535 (600-1)	3420-1½ 535 (600-1½)	3580-2¼ 695 (700-2¼)

ELEV 2885 D TDZE 2825



REIL Rwys 3, 21, 17 and 35
HIRL Rwys 3-21 and 17-35 L

SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

VOR/DME VCV	APP CRS	Rwy Idg	15050
109.05	170°	TDZE	2825
Chan 27(Y)		Apt Elev	2885

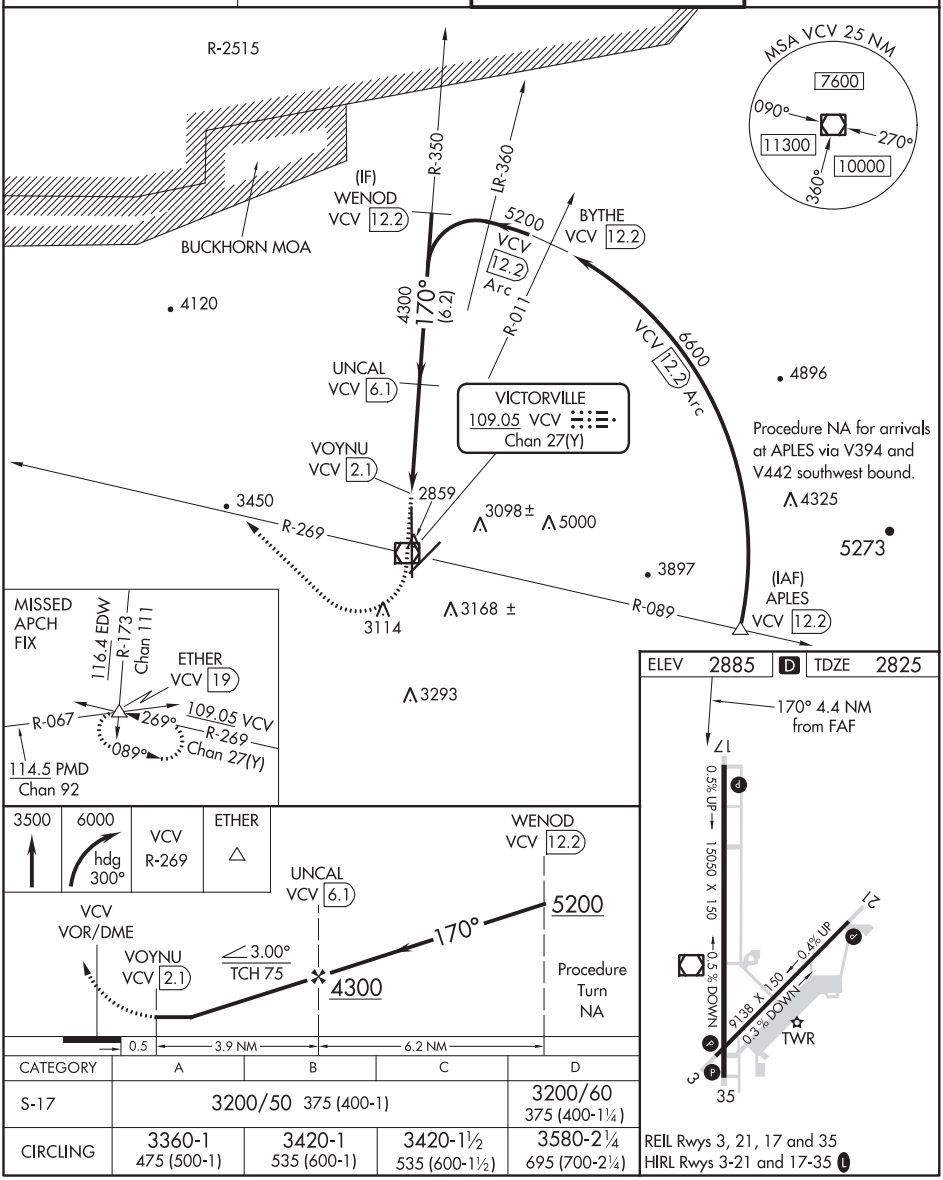
VOR/DME RWY 17

SOUTHERN CALIFORNIA LOGISTICS (VCV)

When local altimeter setting not received, use Edwards AFB altimeter setting and increase all MDA 160 feet. Increase all visibilities ½ mile.

MISSED APPROACH: Climb to 3500, then climbing right turn to 6000 via heading 300° and VCV R-269 to ETHER INT and hold.

ATIS ★	JOSHUA APP CON	VICTORVILLE TOWER ★	GND CON
135.475	124.55 363.0	118.35 (CTAF) L 282.225	124.45



CATEGORY	A	B	C	D
S-17	3200/50 375 (400-1)			3200/60 375 (400-1¼)
CIRCLING	3360-1 475 (500-1)	3420-1 535 (600-1)	3420-1½ 535 (600-1½)	3580-2¼ 695 (700-2¼)

REIL Rwys 3, 21, 17 and 35
HIRL Rwys 3-21 and 17-35 L

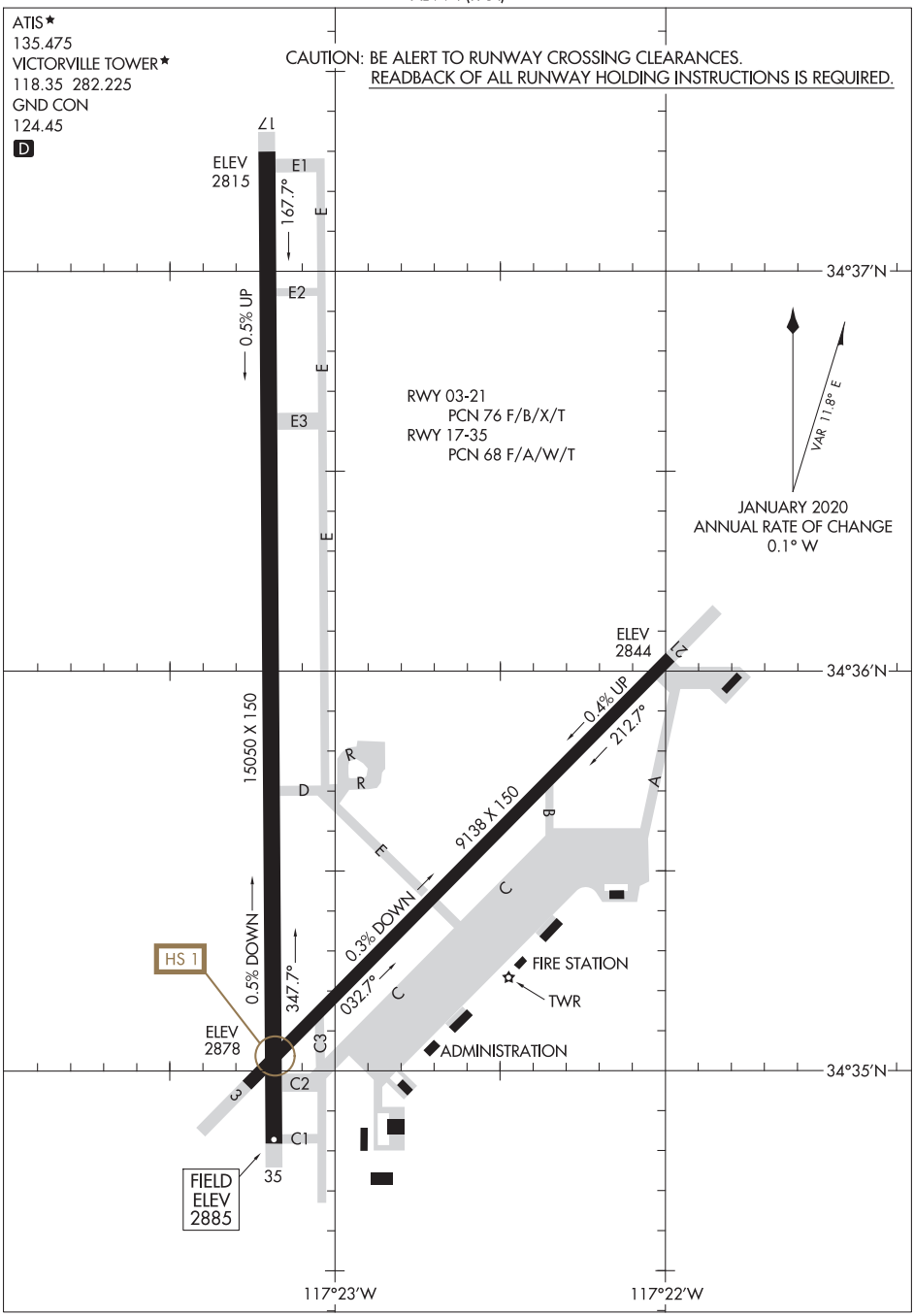
SW-3, 05 NOV 2020 to 31 DEC 2020
SW-3, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

SOUTHERN CALIFORNIA LOGISTICS (VCV)
VICTORVILLE, CALIFORNIA

AL-794 (FAA)



SW-3, 05 NOV 2020 to 31 DEC 2020

SW-3, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
VICTORVILLE, CALIFORNIA
SOUTHERN CALIFORNIA LOGISTICS (VCV)

CLIMB/DESCENT TABLE 10042

INSTRUMENT TAKEOFF OR APPROACH PROCEDURE CHARTS
RATE OF CLIMB/DESCENT TABLE

(ft. per min)

A rate of climb/descent table is provided for use in planning and executing climbs or descents under known or approximate ground speed conditions. It will be especially useful for approaches when the localizer only is used for course guidance. A best speed, power, altitude combination can be programmed which will result in a stable glide rate and altitude favorable for executing a landing if minimums exist upon breakout. Care should always be exercised so that minimum descent altitude and missed approach point are not exceeded.

CLIMB/ DESCENT ANGLE (degrees and tenths)	ft/NM	GROUND SPEED (knots)										
		60	90	120	150	180	210	240	270	300	330	360
2.0	210	210	320	425	530	635	743	850	955	1060	1165	1275
2.5	265	265	400	530	665	795	930	1060	1195	1325	1460	1590
VERTICAL PATH ANGLE 2.7	287	287	430	574	717	860	1003	1147	1290	1433	1576	1720
2.8	297	297	446	595	743	892	1041	1189	1338	1486	1635	1783
2.9	308	308	462	616	770	924	1078	1232	1386	1539	1693	1847
3.0	318	318	478	637	797	956	1115	1274	1433	1593	1752	1911
3.1	329	329	494	659	823	988	1152	1317	1481	1646	1810	1975
3.2	340	340	510	680	850	1020	1189	1359	1529	1699	1869	2039
3.3	350	350	526	701	876	1052	1227	1402	1577	1752	1927	2103
3.4	361	361	542	722	903	1083	1264	1444	1625	1805	1986	2166
3.5	370	370	555	745	930	1115	1300	1485	1670	1860	2045	2230
4.0	425	425	640	850	1065	1275	1490	1700	1915	2125	2340	2550
4.5	480	480	715	955	1195	1435	1675	1915	2150	2390	2630	2870
5.0	530	530	795	1065	1330	1595	1860	2125	2390	2660	2925	3190
5.5	585	585	880	1170	1465	1755	2050	2340	2635	2925	3220	3510
6.0	640	640	960	1275	1595	1915	2235	2555	2875	3195	3510	3830
6.5	690	690	1040	1385	1730	2075	2425	2770	3115	3460	3805	4155
7.0	745	745	1120	1490	1865	2240	2610	2985	3355	3730	4105	4475
7.5	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
8.0	855	855	1280	1710	2135	2560	2990	3415	3845	4270	4695	5125
8.5	910	910	1360	1815	2270	2725	3180	3630	4085	4540	4995	5450
9.0	960	960	1445	1925	2405	2885	3370	3850	4330	4810	5295	5775
9.5	1015	1015	1525	2035	2540	3050	3560	4065	4575	5085	5590	6100
10.0	1070	1070	1605	2145	2680	3215	3750	4285	4820	5355	5890	6430

CLIMB/DESCENT TABLE 10042

FAA Product ID: BTPSW3

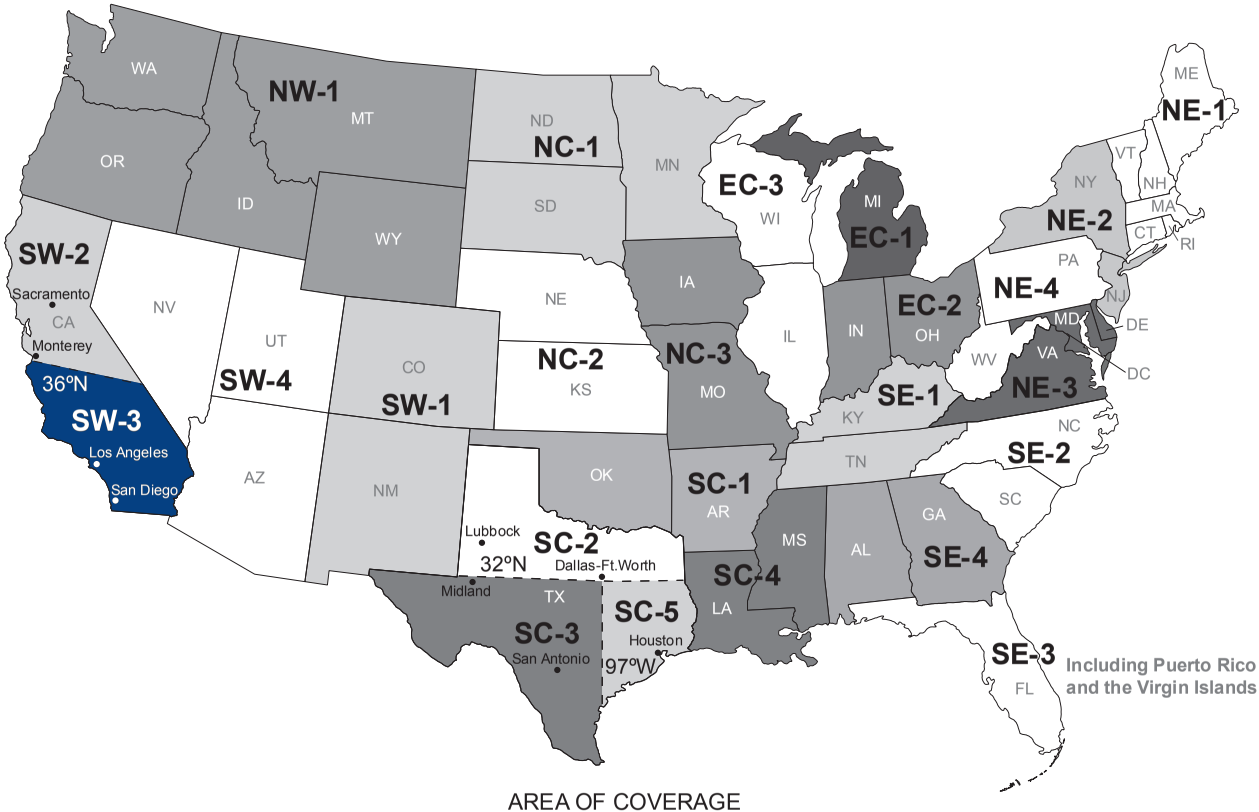
NSN 7641015059599

NGA REF. NO. OK-10-2859

TERMXFAABTPPSW3

EFF. DATE 20310

U.S. TERMINAL PUBLICATION VOLUMES



AREA OF COVERAGE