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## CORRECTIONS, COMMENTS AND/OR PROCUREMENT

### FOR CHARTING ERRORS, OR FOR CHANGES, ADDITIONS, RECOMMENDATIONS ON PROCEDURAL ASPECTS CONTACT:

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### FOR PROCUREMENT:

Contact an Authorized FAA Chart Sales Agent. Visit our website at http://aeronav.faa.gov for an agent near you.
For digital products, contact FAA, AeroNav Products at 1-800-638-8972.

Frequently asked questions (FAQ) are answered on our website at http://aeronav.faa.gov. 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.

Published by the
U.S. Department of Transportation
Federal Aviation Administration
AeroNav Products
http://aeronav.faa.gov


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## INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE

Landing minimums published on instrument approach procedure charts are based upon full operation of all components and visual aids associated with the particular instrument 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 glide slope inoperative minimums are published on the instrument approach charts as localizer minimums. This table may be amended by notes on the approach chart. Such notes apply only to the particular approach category(ies) as stated. See legend page for description of components indicated below.

(1) ILS, MLS, PAR and RNAV (LPV line of minima)

| Inoperative Component or Aid | Approach Category | Increase Visibility |
|---|---|---|
| ALSF 1 & 2, MALSR, & SSALR | ABCD | ¼ mile |

(2) ILS with visibility minimum of 1,800 RVR

| | | |
|---|---|---|
| ALSF 1 & 2, MALSR, & SSALR | ABCD | To 4000 RVR |
| TDZL RCLS | ABCD | To 2400 RVR* |
| RVR | ABCD | To ½ mile |

*1800 RVR authorized with the use of FD or AP or HUD to DA.

(3) VOR, VOR/DME, TACAN, LOC, LOC/DME, LDA, LDA/DME, SDF, SDF/DME, GPS, ASR and RNAV (LNAV/VNAV, LP, LNAV lines of minima)

| Inoperative Visual Aid | Approach Category | Increase Visibility |
|---|---|---|
| ALSF 1 & 2, MALSR, & SSALR | ABCD | ½ mile |
| SSALS,MALS, & ODALS | ABC | ¼ mile |

(4) NDB

| | | |
|---|---|---|
| ALSF 1 & 2, MALSR, & SSALR | C | ½ mile |
| | ABD | ¼ mile |
| MALS, SSALS, ODALS | ABC | ¼ mile |

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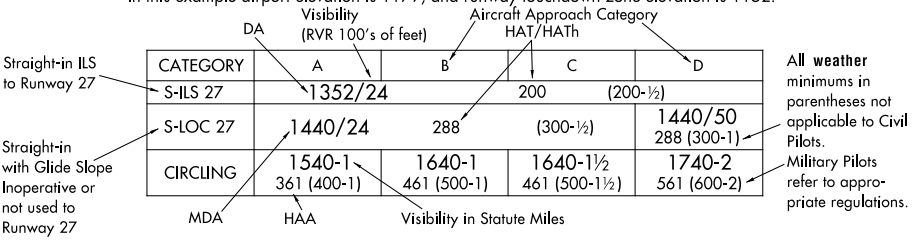
## IFR LANDING MINIMA

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.




| CATEGORY | A | B | C | D |
|---|---|---|---|---|
| S-ILS 27 | 1352/24 | | 200 (200-½) | |
| S-LOC 27 | 1440/24 | 288 (300-½) | | 1440/50<br>288 (300-1) |
| CIRCLING | 1540-1<br>361 (400-1) | 1640-1<br>461 (500-1) | 1640-1½<br>461 (500-1½) | 1740-2<br>561 (600-2) |

### COPTER MINIMA ONLY

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

Copter Approach Direction

Height of MDA/DA Above Landing Area (HAL)

No circling minimums are provided

### RNAV (GPS) MINIMA EXAMPLE

| CATEGORY | A | B | C | D |
|---|---|---|---|---|
| LPV DA | 1540/24 258 (300-½) | | | |
| LNAV/VNAV DA | 1600/24 318 (400-½) | | | 1600/40<br>318 (400-¾) |
| LNAV MDA | 1840/24 558 (600-½) | | 1840/50<br>558 (600-1) | 1840/60<br>558 (600-1¼) |
| CIRCLING | 1840-1 545 (600-1) | | 1840-1½<br>545 (600-1½) | 1860-2<br>565 (600-2) |

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.

### 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. However, if it is necessary to operate at a speed in excess of the upper limit of the speed range for an aircraft's category, the minimums for the category for that speed shall be used. For example, an airplane which fits into Category B, but is circling to land at a speed of 145 knots, shall use the approach Category D minimums. As an additional example, a Category A airplane (or helicopter) which is operating at 130 knots on a straight-in approach shall use the approach Category C minimums. 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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# TERMS/LANDING MINIMA DATA

## CIRCLING APPROACH OBSTACLE PROTECTED AIRSPACE

The circling MDA provides vertical clearance from obstacles when conducting a circle-to-land maneuver within the obstacle protected area. Circling approach obstacle protected areas extend laterally and longitudinally from the centerlines and ends of all runways at an airport by the distances shown in the following tables. The areas are technically defined by the tangential connection of arcs drawn at the radius distance shown from each runway end.

### 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 1800 RVR, use 2400 RVR with the resultant visibility of ½ mile.

| RVR (feet) | Visibility (statute miles) | RVR (feet) | Visibility (statute miles) |
|---|---|---|---|
| 1600 | ¼ | 4500 | ⅞ |
| 2400 | ½ | 5000 | 1 |
| 3200 | ⅝ | 6000 | 1¼ |
| 4000 | ¾ | | |

## RADAR MINIMA

| | RWY | GS/TCH/RPI | CAT | DA/ MDA-VIS | HAT/ HATh/ HAA | CEIL-VIS | CAT | DA/ MDA-VIS | HAT/ HATh/ 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 Takeoff Minimums not standard and/or Departure Procedures are published. Refer to 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 Airport/Facility Directory contains information on civil operations at military airports.

### 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).

**RNAV DP and STAR.** Effective March 15,2007, these procedures, formerly identified as Type-A and Type-B, will be designated as RNAV 1 in accordance with amended Advisory Circular (AC) and ICAO terminology.

Refer to AC 90-100A U.S. TERMINAL AND EN ROUTE AREA NAVIGATION (RNAV) OPERATIONS and the Aeronautical Information Manual for additional guidance regarding these procedures.

#### Standard RNAV 1 Procedure Chart Notes

NOTE: RNAV 1
NOTE: DME/DME/IRU or GPS required

Some procedures may require use of GPS and will be identified by a "GPS required" note.

#### RNAV 1 Procedure Characteristics and Operations

1. Require use of an RNAV system with DME/DME/IRU, and/or GPS inputs.
2. Require use of a CDI, flight director, and/or autopilot, in lateral navigation mode, for flight guidance while operating on RNAV paths (track, course, or direct leg). Other methods providing an equivalent level of performance may be acceptable.
3. RNAV paths may start as low as 500 feet above airport elevation.

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## 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 Directory/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) |

## 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.

FAA Procedure Amendment Number → Orig 31DEC09 / Amdt 2B 12MAR09 ← Procedure Amendment Effective Date

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.

NOTE: Inclusion of the "Procedure Amendment Effective Date" will be phased in as procedures are amended. As this occurs, the Julian date will be relocated to the upper right corner of the chart.

## MISCELLANEOUS

★ Indicates a non-continuously operating facility, see A/FD or flight 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 in nautical miles (except visibility in statute miles and Runway Visual Range in hundreds of feet). Runway Dimensions in feet. Elevations in feet. Mean Sea Level (MSL). Ceilings 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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## AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

Hard Surface | Other Than Hard Surface | Stopways,Taxiways, Parking Areas, Water Runways | Displaced Threshold

Closed Runway | Closed Taxiway | Under Construction | Metal Surface

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

REFERENCE FEATURES

Buildings.....
24-Hour Self-Serve Fuel ##.....
Tanks.....
Obstructions.....
Airport Beacon #.....
Runway
Radar Reflectors.....
Hot Spot .....
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 A/FD, Alaska or Pacific Supplement for information.

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 A/FD, Alaska or Pacific Supplement for distance information.

Helicopter Alighting Areas

Negative Symbols used to identify Copter Procedures

landing point.....

Runway Threshold elevation.....THRE 123
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.

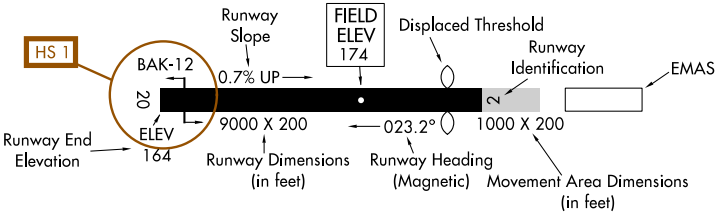
True/magnetic North orientation may vary from diagram to diagram

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 noted on the chart.

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




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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## ABBREVIATIONS

AAUP....Attention All Users Page
ADF....Automatic Direction Finder
AFIS....Automatic Flight Information Service
ALS....Approach Light System
ALSF....Approach Light System with Sequenced Flashing Lights
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
CIR....Circling
CLNC DEL....Clearance Delivery
CNF....Computer Navigation Fix
CTAF....Common Traffic Advisory Frequency
CW....Clockwise
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
GCO....Ground Communications Outlet
GLS....Ground Based Augmentation System Landing System
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
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
INT....Intersection
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
MALSR....Medium Intensity Approach Light System with RAIL
MAP....Missed Approach Point
MDA....Minimum Descent Altitude
MIRL....Medium Intensity Runway Lights
MLS....Microwave Landing System
MM....Middle Marker
MRA....Minimum Reception Altitude
N/A....Not Applicable
NA....Not Authorized
NDB....Non-directional Radio Beacon
NFD....National Flight Database
NM....Nautical Mile
NoPT....No Procedure Turn Required (Procedure Turn shall not be executed without ATC clearance)
ODALS....Omnidirectional Approach Light System
ODP....Obstacle Departure Procedure
OM....Outer Marker
PRM....Precision Runway Monitor


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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
SSALR..... Simplified Short Approach Light System with RAIL
SDF..... Simplified Directional Facility
SM..... Statute Mile
SOIA.....Simultaneous Offset Instrument Approach
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
THRE..... Threshold Elevation
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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# 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 Altitude
2000
155°
Feeder Route
(15.1)
Mileage

## HOLDING PATTERNS

Missed Approach
360°
180°

In lieu of Procedure Turn
270°
(IAS)
090°

HOLD 8000
Arrival
360°
180°

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.
Limits will only be specified when they deviate from the standard. 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)
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 | 120K | 250K | 180K |
|---|---|---|---|
| Mandatory Airspeed | Minimum Airspeed | Maximum Airspeed | Recommended Airspeed |

## RADIO AIDS TO NAVIGATION

110.1 Underline indicates No Voice transmitted on this frequency

VOR (Compulsory)
VORTAC (Compulsory)
NDB (Compulsory)
VOR/DME (Compulsory)
TACAN (Compulsory)
NDB/DME (Compulsory)

VOR (Non-Compulsory)
TACAN (Non-Compulsory)
VOR/DME (Non-Compulsory)
NDB (Non-Compulsory)
VORTAC (Non-Compulsory)
NDB/DME (Non-Compulsory)

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

Marker Beacon

Marker beacons that are not specifically part of the procedure but underlie the final approach course are shown in screened color.

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

SDF Course

180° MLS Approach Azimuth

MLS Identifier
MICROWAVE
Chan 514
M-VDZ
Glidepath 6.20°
DME 111.5 Chan 48(Y)
(Y) TACAN must be in "Y" mode to receive distance information.

SCOTT
Chan 59
SKE
(112.2)
VHF Paired Frequency

LOC/DME

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

Waypoint Data
Coordinates
PRAYS
N38°58.30′ W89°51.50′
Waypoint Name
Frequency
112.7 CAP 187.1°-56.2
Identifier
590
Reference Facility Elevation
Radial-Distance (Facility to Waypoint)

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

Secondary Navaid
LMM
LIMA
248 NT



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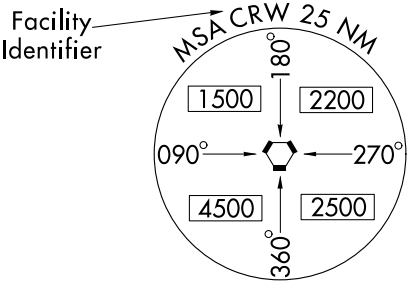
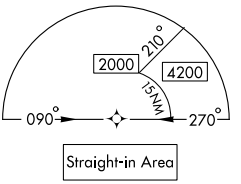
## PLANVIEW SYMBOLS

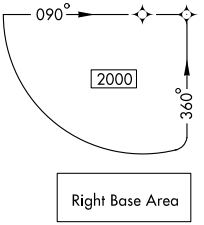
### MINIMUM SAFE ALTITUDE (MSA)

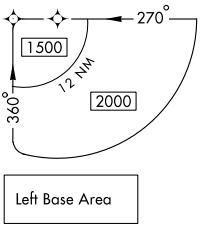



(arrows on distance circle identify sectors)

### 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

### SPECIAL USE AIRSPACE

R-352

R-Restricted W-Warning
P-Prohibited A-Alert

### AIRPORTS

Primary and Secondary (named in planview)

Seaplane Base

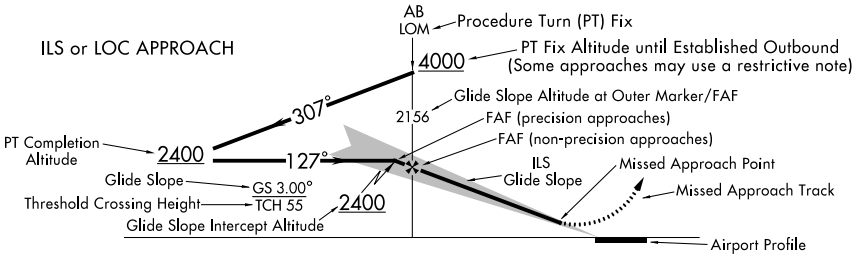
### OBSTACLES

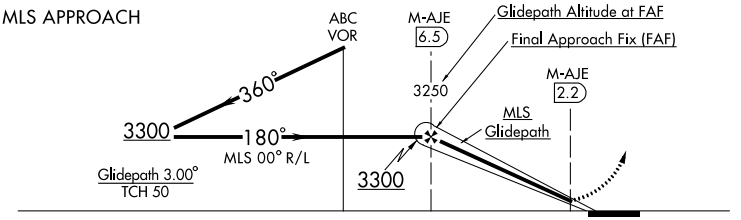
- Spot Elevation
- Highest Spot Elevation
- Obstacle
- Group of Obstacles
- Highest Obstacle
- ± Doubtful accuracy

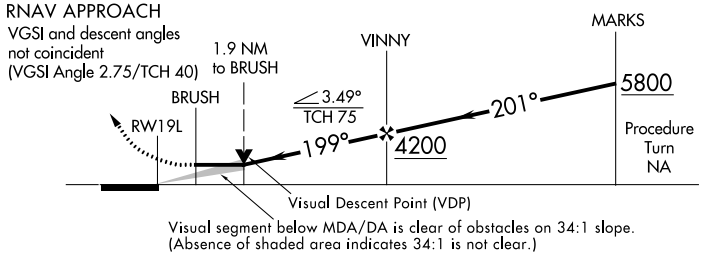
## PROFILE VIEW

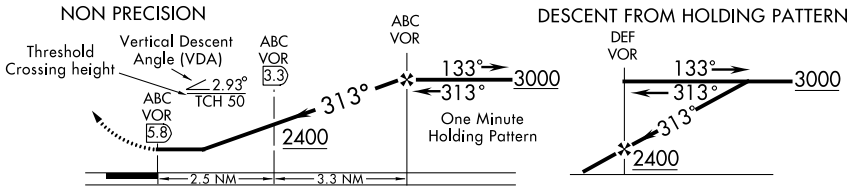
Two different methods are used for vertical guidance:
a. "GS" indicates an electronic glide slope or barometric vertical guidance is present. In the case of an Instrument Landing System (ILS) and Wide Area Augmentation System (WAAS) LPV approach procedures, an electronic signal provides vertical guidance. Barometric vertical guidance is provided for RNP and LNAV/VNAV instrument approach procedures. All ILS, LPV, RNP, and LNAV/VNAV will be in this format GS 3.00°/TCH 55, located in the lower left or right corner.

b. Other charts without electronic or barometric vertical guidance will be in this format ∠3.00°/TCH 55, indicating a non-precision vertical descent angle 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.




### ALTITUDES

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

### PROFILE SYMBOLS

- 2400 — Glide Slope/Glide Path 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.

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# LEGEND

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

Applies to both STAR and DP Charts unless otherwise noted.

### RADIO AIDS TO NAVIGATION

VOR (Compulsory)
VORTAC (Compulsory)
NDB (Compulsory)
VOR/DME (Compulsory)
TACAN (Compulsory)
NDB/DME (Compulsory)
VOR (Non-Compulsory)
TACAN (Non-Compulsory)
VOR/DME (Non-Compulsory)
NDB (Non-Compulsory)
VORTAC (Non-Compulsory)
NDB/DME (Non-Compulsory)
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

(T) indicates frequency protection range (STAR)
Identifier
(Y) TACAN must be placed in "Y" mode to receive distance information
Frequency
ORLANDO
112.25 (T) ORL
Chan 59 (Y)
N28°32.56′ - W81°20.10′
Geographic Position
L-19, H-5
DME or TACAN Channel
Underline indicates no voice transmitted on this frequency
Enroute Chart Reference

Coordinates
PRAYS
Waypoint Name
N38°58.30′ W89°51.50′
Frequency
112.7 CAP 187.1°-56.2
590
Identifier
Reference Facility Elevation
Radial-Distance (Facility to Waypoint)

### 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)
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
V12 J80 Airway/Jet Route Identification
DP Holding Pattern
STAR Holding Pattern
(IAS)
(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
P-Prohibited
W-Warning
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)
Civil
Military
Joint Civil-Military

### MISCELLANEOUS

Changeover Point
Distance not to scale (DP)
International Boundary (DP)
Takeoff Minimums and (Obstacle) Departure Procedures entry published. (DP)

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## CORRECTIONS, COMMENTS AND/OR PROCUREMENT

FOR CHARTING ERRORS, OR FOR CHANGES, ADDITIONS, RECOMMENDATIONS ON PROCEDURAL ASPECTS CONTACT:

FAA, AeroNav Products
SSMC-4 Sta. #4503
1305 East West Highway
Silver Spring, MD 20910-3281
Telephone 1-800-626-3677
Email 9-AMC-Aerochart@faa.gov

FOR PROCUREMENT:

Contact an Authorized FAA Chart Sales Agent. Visit our website at http://aeronav.faa.gov for an agent near you.
For digital products, contact FAA, AeroNav Products at 1-800-638-8972.

Frequently asked questions (FAQ) are answered on our website at http://aeronav.faa.gov. 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.

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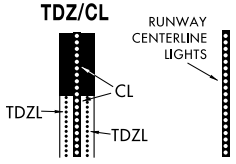
Approach lighting and visual glide slope systems are indicated on the airport sketch by an identifier, e.g., (A2), (V), etc.

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).

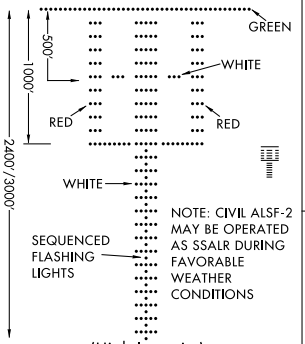
## RUNWAY TOUCHDOWN ZONE AND CENTERLINE LIGHTING SYSTEMS




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

## APPROACH LIGHTING SYSTEM

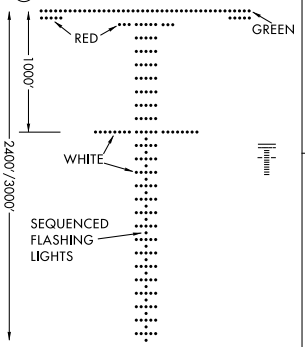
(A) **ALSF-2**




(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**

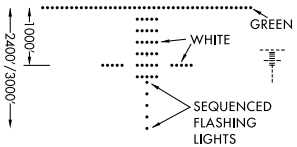
(High Intensity)

SAME AS INNER 1500' OF ALSF-1

## SIMPLIFIED SHORT APPROACH LIGHTING SYSTEM

with Runway Alignment Indicator Lights

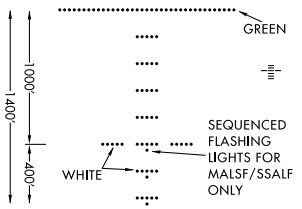
(A3) **SSALR**




(High Intensity)
LENGTH 2400/3000 FEET

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

(A4)




LENGTH 1400 FEET

## MEDIUM INTENSITY APPROACH LIGHTING SYSTEM

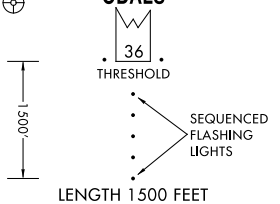
with Runway Alignment Indicator Lights

(A5) **MALSR**

SAME LIGHT CONFIGURATION AS SSALR.

## OMNIDIRECTIONAL APPROACH LIGHTING SYSTEM

**ODALS**



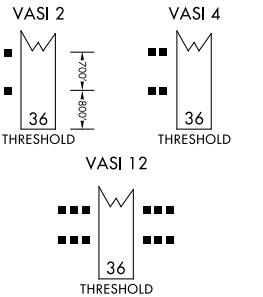

LENGTH 1500 FEET

## (V) VISUAL APPROACH SLOPE INDICATOR

**VASI**

VISUAL APPROACH SLOPE INDICATOR WITH STANDARD THRESHOLD CLEARANCE PROVIDED.

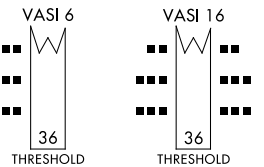
ALL LIGHTS WHITE — TOO HIGH
FAR LIGHTS RED, NEAR LIGHTS WHITE — ON GLIDE SLOPE
ALL LIGHTS RED — TOO LOW




## (V3) VISUAL APPROACH SLOPE INDICATOR

**VASI**

VISUAL APPROACH SLOPE INDICATOR WITH A THRESHOLD CROSSING HEIGHT TO ACCOMODATE LONG BODIED OR JUMBO AIRCRAFT.



INSTRUMENT APPROACH PROCEDURES (CHARTS)

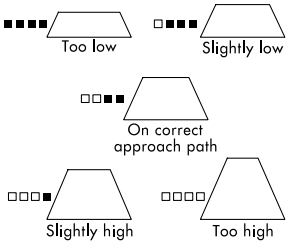
# APPROACH LIGHTING SYSTEM - UNITED STATES

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

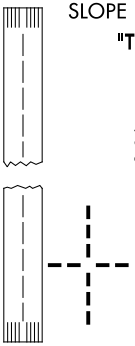
**PAPI**




Legend: □ White ■ Red

## (V1) "T"-VISUAL APPROACH SLOPE INDICATOR

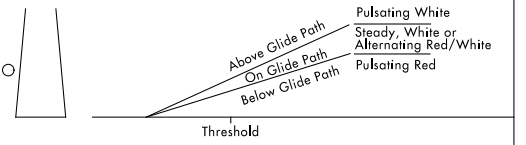
**"T"-VASI**



"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

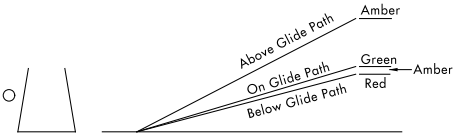
**PVASI**




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

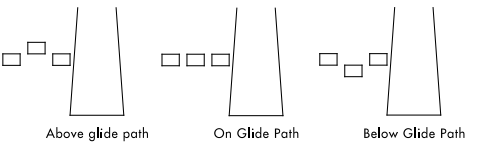
**TRCV**




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.



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## MLS CHANNELING AND FREQUENCY PAIRING TABLE

| MLS CHANNEL | VHF FREQUENCY | TACAN CHANNEL | MLS CHANNEL | VHF FREQUENCY | TACAN CHANNEL | MLS CHANNEL | VHF FREQUENCY | TACAN CHANNEL |
|---|---|---|---|---|---|---|---|---|
| 500 | 108.10 | 18X | 568 | 109.45 | 31Y | 636 | 114.15 | 88Y |
| 502 | 108.30 | 20X | 570 | 109.55 | 32Y | 638 | 114.25 | 89Y |
| 504 | 108.50 | 22X | 572 | 109.65 | 33Y | 640 | 114.35 | 90Y |
| 506 | 108.70 | 24X | 574 | 109.75 | 34Y | 642 | 114.45 | 91Y |
| 508 | 108.90 | 26X | 576 | 109.85 | 35Y | 644 | 114.55 | 92Y |
| 510 | 109.10 | 28X | 578 | 109.95 | 36Y | 646 | 114.65 | 93Y |
| 512 | 109.30 | 30X | 580 | 110.05 | 37Y | 648 | 114.75 | 94Y |
| 514 | 109.50 | 32X | 582 | 110.15 | 38Y | 650 | 114.85 | 95Y |
| 516 | 109.70 | 34X | 584 | 110.25 | 39Y | 652 | 114.95 | 96Y |
| 518 | 109.90 | 36X | 586 | 110.35 | 40Y | 654 | 115.05 | 97Y |
| 520 | 110.10 | 38X | 588 | 110.45 | 41Y | 656 | 115.15 | 98Y |
| 522 | 110.30 | 40X | 590 | 110.55 | 42Y | 658 | 115.25 | 99Y |
| 524 | 110.50 | 42X | 592 | 110.65 | 43Y | 660 | 115.35 | 100Y |
| 526 | 110.70 | 44X | 594 | 110.75 | 44Y | 662 | 115.45 | 101Y |
| 528 | 110.90 | 46X | 596 | 110.85 | 45Y | 664 | 115.55 | 102Y |
| 530 | 111.10 | 48X | 598 | 110.95 | 46Y | 666 | 115.65 | 103Y |
| 532 | 111.30 | 50X | 600 | 111.05 | 47Y | 668 | 115.75 | 104Y |
| 534 | 111.50 | 52X | 602 | 111.15 | 48Y | 670 | 115.85 | 105Y |
| 536 | 111.70 | 54X | 604 | 111.25 | 49Y | 672 | 115.95 | 106Y |
| 538 | 111.90 | 56X | 606 | 111.35 | 50Y | 674 | 116.05 | 107Y |
| 540 | 108.05 | 17Y | 608 | 111.45 | 51Y | 676 | 116.15 | 108Y |
| 542 | 108.15 | 18Y | 610 | 111.55 | 52Y | 678 | 116.25 | 109Y |
| 544 | 108.25 | 19Y | 612 | 111.65 | 53Y | 680 | 116.35 | 110Y |
| 546 | 108.35 | 20Y | 614 | 111.75 | 54Y | 682 | 116.45 | 111Y |
| 548 | 108.45 | 21Y | 616 | 111.85 | 55Y | 684 | 116.55 | 112Y |
| 550 | 108.55 | 22Y | 618 | 111.95 | 56Y | 686 | 116.65 | 113Y |
| 552 | 108.65 | 23Y | 620 | 113.35 | 80Y | 688 | 116.75 | 114Y |
| 554 | 108.75 | 24Y | 622 | 113.45 | 81Y | 690 | 116.85 | 115Y |
| 556 | 108.85 | 25Y | 624 | 113.55 | 82Y | 692 | 116.95 | 116Y |
| 558 | 108.95 | 26Y | 626 | 113.65 | 83Y | 694 | 117.05 | 117Y |
| 560 | 109.05 | 27Y | 628 | 113.75 | 84Y | 696 | 117.15 | 118Y |
| 562 | 109.15 | 28Y | 630 | 113.85 | 85Y | 698 | 117.25 | 119Y |
| 564 | 109.25 | 29Y | 632 | 113.95 | 86Y | | | |
| 566 | 109.35 | 30Y | 634 | 114.05 | 87Y | | | |


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# 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 |

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# GENERAL INFORMATION/INSTRUCTIONS

# CHANGE NOTICE (CN) FOR UNITED STATES GOVERNMENT

# TERMINAL PROCEDURES PUBLICATION

GENERAL : The United States Terminal Procedures are published in 25 Bound Volumes on a 56-day cycle. This CN is published at the mid 28-day point and contains revisions, additions and deletions to the last complete issue of the 24 volumes covering the conterminous U.S. There is no CN published for airports in the states of Alaska, Hawaii, or Pacific Islands.

OPERATIONAL USE OF THE CHANGE NOTICE : During flight planning or in the case of an in-flight diversion, it is imperative that the pilot first consult this CN before making any decision as to which procedures are current at the airport of intended landing. If the airport of intended landing is not listed in the supplementary information or Index of Charts then the airport information in the basic 24 volumes has not changed.

INDEX OF TERMINAL PROCEDURES : All civil airports which have revised, added or deleted procedures are listed alphabetically by city in the Index. In addition to the airport name, the Index includes the CN page number, the current procedure designation, the affected page and volume number in the last issue of the 24 conterminous US volumes and an indicaton whether the procedure is new, has been deleted, or replaces an existing procedure.

EFFECTIVE DATES: All procedures in this CN are effective on the dates shown on the front cover unless indicated otherwise in the Index, i.e., if the procedure revision is effective on a date other than the CN publication date, this will be noted in the Index instructions by "Effective (date)". This will also be shown on the planview of the affected Chart(s)

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