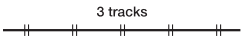
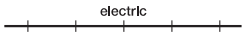
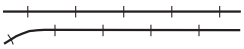
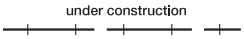
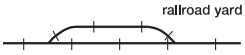
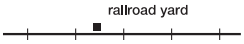
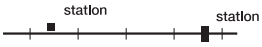
# APPENDIX 1 SYMBOLS APPENDIX

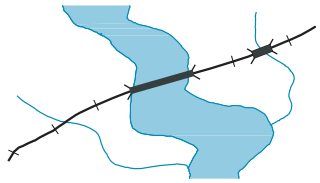
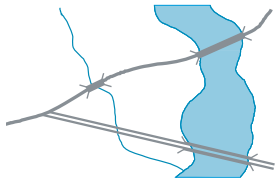
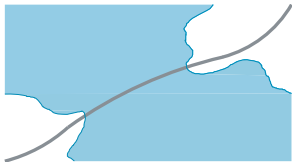
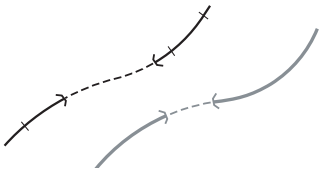
## PART 1: TOPOGRAPHICAL INFORMATION

| CULTURE | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| RAILROADS<br>*All gauges*<br>Single Track | <br>.012" line, crossties .06" long<br>.006" lineweight at .25" intervals.<br>Through cities .008" lineweight without crossties | <br>.010" line, crossties .06" long,<br>.006" lineweight at .4" intervals |
| Double Track | <br>.012" line, crossties .06" long,<br>.006" lineweight spaced .02"<br>apart at .25" intervals.<br>Through Cities .008" lineweight without crossties | <br>.010" line crossties .06" long,<br>.006" lineweight spaced .02"<br>apart at .4" intervals |
| More Than Two Tracks<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* |  <br>Label double track symbol appropriately. | SAME |
| Electric<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* |  | SAME |
| RAILROADS IN JUXTAPOSITION<br>*Separate rail lines which are closely parallel.* |  | SAME |
| RAILROAD - NON-OPERATING, ABANDONED, DESTROYED, OR UNDER CONSTRUCTION<br>*Label appropriately: 5.5 pt Helvetica 65 Medium (l.c.)* |  <br>.06" space between segments | SAME |
| RAILROAD YARDS<br>Limiting Tracks - To Scale<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* |  | SAME |
| Location Only<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* |  <br>.04" square | SAME |
| RAILROAD STATIONS<br>*Label or name required when symbol is centered or adjacent to railroad.*<br>*Name or Label : 5.5 pt Helvetica 65 Medium (l.c.)* |  <br>.04" square adjacent to track<br>.04" by .08" rectangle centered<br>on track when location is not known | SAME |

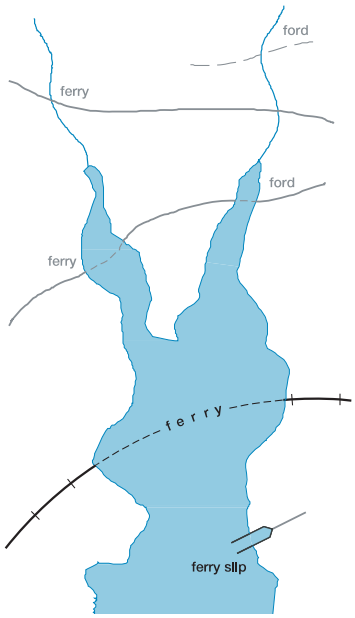
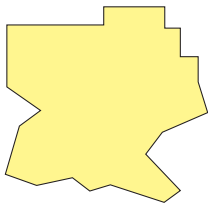
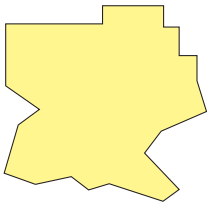
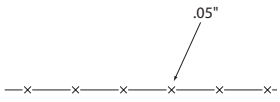
# PART 1: TOPOGRAPHICAL INFORMATION

| CULTURE | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| RAILROAD SIDINGS AND SHORT SPURS | | SAME |
| ROADS<br>Category 1<br>Dual Lane Divided Highways | .012" line, .036" overall | .008" lines, .010" apart, .026" overall |
| Category 2<br>Other Roads<br>Primary | .018" line | .010" line |
| Secondary | .010" line | SAME |
| Category 3<br>Tracks and Trails<br>*Provides symbolization for dismantled railroad when combined with label "dismantled railroad."*<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* | .010" line, .16" dash, .015" space | SAME |
| ROAD MARKERS<br>U.S. route no.<br>*Label: 6 pt Trade Gothic Condensed*<br>Interstate route no.<br>*Label: 5 pt Helvetica 65 Medium*<br>Air Marked Identification label<br>*Label: 6 pt Futura Medium* | 40<br>80<br>13 | N/A |
| ROAD NAMES<br>*Label: 4.5 pt Helvetica 65 Medium (Caps)* | LINCOLN HIGHWAY | LINCOLN HIGHWAY |
| ROADS - UNDER CONSTRUCTION<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* | under construction<br>Appropriate road symbol dashed-<br>.13" dash, .02" space | SAME |

# PART 1: TOPOGRAPHICAL INFORMATION

| CULTURE | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| BRIDGES AND VIADUCTS<br><br>Railroad |  | SAME |
| Road |  | SAME |
| OVERPASSES AND UNDERPASSES | <br>.02" space on each side | SAME |
| CAUSEWAYS |  <br>Appropriate road or railroad symbol | SAME |
| TUNNELS - ROAD AND RAILROAD<br><br>*Omit dashes when symbol is less than .10" in length* |  <br>.010" line, .04" dash, .02" space | SAME |

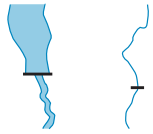
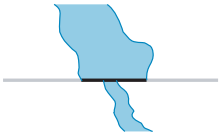
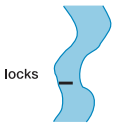
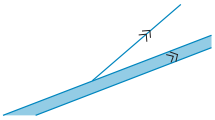
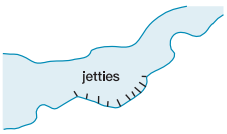
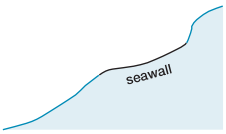
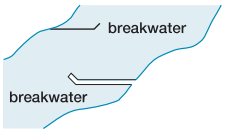
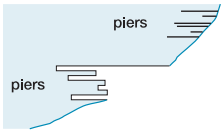
# PART 1: TOPOGRAPHICAL INFORMATION

| CULTURE | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| FERRIES, FERRY SLIPS AND FORDS<br>*Label appropriately: 5.5 pt Helvetica 65 Medium (l.c.)* |  <br>.006" line, .04" dash, .02" space<br>ferry slips: .008" line | SAME |
| POPULATED PLACES OUTLINED<br>Large Cities<br>Category 1 |  <br>.006" line |  <br>.006" line. .10 inch square |
| POPULATED PLACES OUTLINED<br>Cities and Large Towns<br>Category 2 | <br>.06" square, .006" line | <br>.07" square , .006" line |
| POPULATED PLACES<br>Towns and Villages<br>Category 3 | <br>.05" diameter , .006" line | <br>.04" square , .006" line |
| PROMINENT FENCES |  <br>.005" line, .20" dash, .05" space | SAME |

# PART 1: TOPOGRAPHICAL INFORMATION

| CULTURE | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| BOUNDARIES<br>*Interval between dashes/dots may be increased where symbol coincides with other linear symbols.*<br>International | .012" line, .3" dash, .05" space, .10" dash overprint .04" wide | SAME |
| State and Provincial | .015" line, .3" dash, .05" space, .10" dash | SAME |
| US/RUSSIA Maritime Boundary | RUSSIA<br>UNITED STATES<br>.02" line, .20" dash, .06" space, .12" cross tick | SAME |
| Date Line | INTERNATIONAL (Monday)<br>DATE LINE (Sunday)<br>.02" line, .25" dash, .15" space<br>Date on East side of line one (1) day earlier | SAME |
| Time Zone | PST +8 (+7DT) = UTC<br>MST +7 (+6DT) = UTC<br>Screened .015" dot, .015" space, 17% triangle | NOT SHOWN |
| MINES AND QUARRIES<br>Shaft Mines and Quarries | | SAME |
| POWER TRANSMISSION & TELE-COMMUNICATION LINES | .008" line (Shown in Blue on Military Format) | .010" line, .04" dash, .02" space, .03" dot |
| PIPELINES<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* | pipeline<br>.006" line | SAME |
| Underground<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* | underground pipeline<br>.006" line, .10" dash, .02" space | SAME |

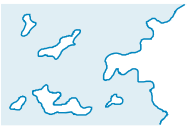
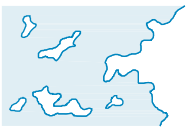
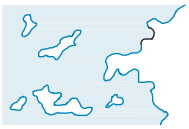
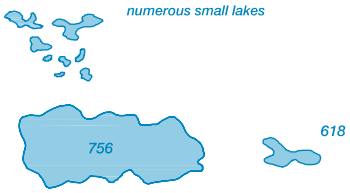
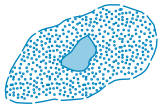
# PART 1: TOPOGRAPHICAL INFORMATION

| CULTURE | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| DAMS |  .015" line, .05" minimum length | SAME |
| DAM CARRYING ROAD |  Use appropriate road symbol | SAME |
| PASSABLE LOCKS<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* |   .015" line; label | SAME |
| SMALL LOCKS |  .005" line, .04" minimum length at 45° angle- Point up-stream | SAME |
| WEIRS AND JETTIES<br>*Label appropriately: 5.5 pt Helvetica 65 Medium (l.c.)* |   .008" line, to scale and shape | SAME |
| SEAWALLS<br>*Label: 5.5 pt to 7 pt Helvetica 65 Medium (l.c.)* |   .008" line | SAME |
| BREAKWATERS<br>*Label: 5.5 pt to 7 pt Helvetica 65 Medium (l.c.)* |   .008" line, plotted length and shape. To scale: .005" line | SAME |
| PIERS, WHARFS, QUAYS, ETC.<br>*Label appropriately: 5.5 pt to 7 pt Helvetica 65 Medium (l.c.)* |   .008" line, plotted length and shape. To scale: .005" line | SAME |

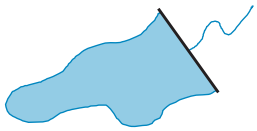
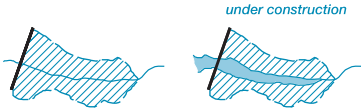
# PART 1: TOPOGRAPHICAL INFORMATION

| CULTURE | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| MISCELLANEOUS CULTURE FEATURES<br>*Label appropriately: 5.5 pt Helvetica 65 Medium (l.c.)*<br>church, monument, aerial cableway, athletic field, outdoor theater, school, shrine, silo, fort, cemetery | fort<br>cemetery<br>.04" square | SAME |
| OUTDOOR THEATER | | SAME |
| WELLS<br>Other Than Water<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* | oil<br>.005" line, .04" diameter | SAME |
| RACE TRACKS | | SAME |
| LOOKOUT TOWERS<br>*Air marked identification*<br>*Label: Site number: 6 pt Helvetica Condensed Bold (Caps & figs);*<br>*Elevation no: 6 pt Helvetica 66 Medium Italic (figs)* | P-17 (Site number)<br>*618* (Elevation at base of tower) | *618* (Elevation at base of tower) |
| LANDMARK AREAS<br>*Label appropriately: 5.5 pt to 9 pt Helvetica 65 Medium (l.c.)* | dark area<br>.005" line, .04" dash, .02" space | SAME |
| TANKS<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)*<br>water<br>gas<br>oil | water<br>gas<br>.04" diameter | SAME |
| COAST GUARD STATION<br>*Label: 6 pt Helvetica Condensed Bold (Caps)* | CG<br>orient bar along shoreline | NOT SHOWN |
| AERIAL CABLEWAYS, CONVEYORS, ETC.<br>*Label appropriately: 5.5 pt Helvetica 65 Medium (l.c.)* | aerial cableway<br>Dashes: .010" line, .04" long, .02" space<br>Terminals: .04" square | aerial cableway<br>.005" line, .04" dash, .02"space<br>Terminals: .04" square |

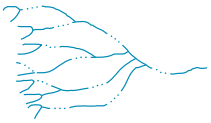
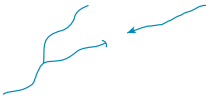
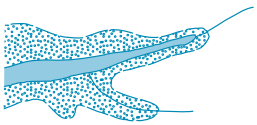
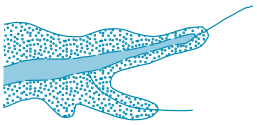
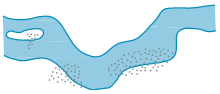
# PART 1: TOPOGRAPHICAL INFORMATION

| HYDROGRAPHY | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| OPEN WATER |  | SAME |
| INLAND WATER | | SAME |
| SHORELINES<br>Definite |  <br>.007" line | SAME |
| Fluctuating | <br>.007" line, .04" dash, .02" space | SAME |
| Unsurveyed<br>*Indefinite* | <br>.007" line, .12" dash, .015" space | SAME |
| Man-made |  <br>.008" line<br>To scale .005" line | SAME |
| LAKES<br>Label as required<br>Perennial<br>*When too numerous to show individual lakes, show representative pattern and descriptive note. Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* |  <br>.007" line | SAME |
| Non-Perennial<br>*(dry, intermittent, etc.) Illustration includes small perennial lake* |  <br>.007" line, .12" dash, .015" space | SAME |

# PART 1: TOPOGRAPHICAL INFORMATION

| HYDROGRAPHY | TAC-SECTIONAL/TPC<br>1:250,000-1:500,000 | WAC/ONC<br>1:1,000,000 |
|---|---|---|
| RESERVOIRS<br>Natural Shorelines<br>*(to scale)* |  | SAME |
| Man-Made Shorelines<br>*(to scale)*<br>*Label when necessary for clarity:*<br>*5.5 pt Helvetica 66 Medium Italic (l.c.)* | <br>.007" line | SAME |
| *Too small to show to scale*<br>*Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* | <br>.04" square | SAME |
| Under Construction<br>*Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* |  <br>NO. 66 line pattern (LP-15 screen) oriented at 45° angle from upper right to lower left. Shoreline .007" , .12" dash, .015" space | SAME |

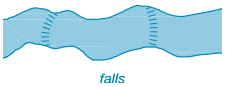
# PART 1: TOPOGRAPHICAL INFORMATION

| HYDROGRAPHY | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| STREAMS<br>Perennial | <br>SINGLE LINE STREAM: Normal line weight .007" line, tapering to .004" at source with maximum .015" at point of conversion with double line stream<br>DOUBLE LINE STREAM: .007" line each side. Where accentuation of drainage for a specific chart series is required tapering shall be in accordance with specific instructions for the series | |
| Non-Perennial | <br>Double line<br>.007", .12" dash, .015" space<br>Single line<br>.007" line, .20" dash, three dots in a 10" space | |
| Fanned Out<br>*Alluvial fan* |  <br>.007" line, .20" dash,<br>three dots in .10" space | SAME |
| Braided | <br>.007" line | SAME |
| Disappearing |  <br>.007" line | SAME |
| Seasonally Fluctuating<br>*with undefined limits* |  <br>.007", .12" dash, .015" space | SAME |
| *with maximum bank limits, prominent and constant* |  <br>.007" line | SAME |
| Sand Deposits In and Along Riverbeds |  | SAME |
| WET SAND AREAS<br>*Within and adjacent to desert areas* | | SAME |

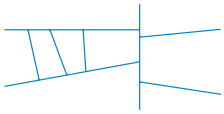
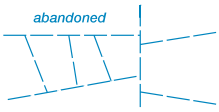
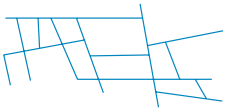
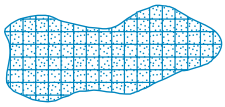
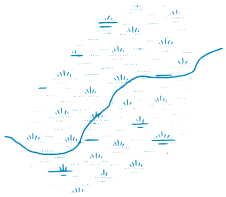
# PART 1: TOPOGRAPHICAL INFORMATION

| HYDROGRAPHY | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| AQUEDUCTS<br>*Label as required: 5.5 pt Helvetica 66 Medium Italic (l.c.)* | *aqueduct*<br>.012" line | SAME |
| Abandoned or Under Construction | *abandoned aqueduct*<br>.012" line, .12" dash, .02" space | SAME |
| Underground | *underground aqueduct*<br>.012" line, .06" dash, .02 space | SAME |
| Suspended or Elevated | .012" line. Supports: .007" line, .028" long at 45° angles | SAME |
| Tunnels | .007" line, .06" dash, .02" space. Wing ticks: .007" line, .028" long at 45° angles. Dashes optional | SAME |
| Kanats<br>*Underground aqueduct with air vents* | *underground aqueduct*<br>.012" line, .06" dash, .02" space. Circle: .005" line, .04" diameter. Show vents in true position if known | SAME |
| FLUMES, PENSTOCKS AND SIMILAR FEATURES<br>*Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* | *flume*<br>.007" line | SAME |
| Elevated | *flume*<br>.007" line<br>Supports: .007" line, .028" long at 45° angles. Break underpassing features .02" from each side. | SAME |
| Underground | *underground flume*<br>.007" line, .06" dash, .02" space | SAME |

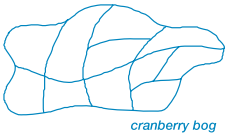
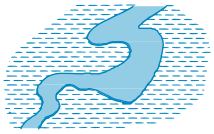
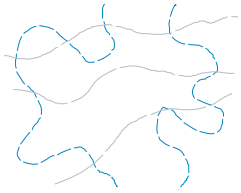
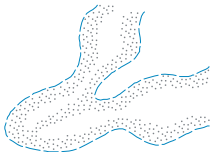
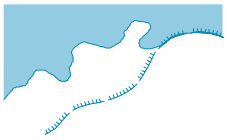
# PART 1: TOPOGRAPHICAL INFORMATION

| HYDROGRAPHY | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| FALLS<br>*Label when necessary for clarity:*<br>*5.5 pt Helvetica 66 Medium Italic (l.c.)*<br>Double Line Stream |  <br>.005" line, .04" length, .02" space | SAME |
| Single Line Stream | <br>.007" line, .05" length | SAME |
| RAPIDS<br>*Label when necessary for clarity:*<br>*5.5 pt Helvetica 66 Medium Italic (l.c.)*<br>Double Line Stream | <br>.005" line, .04" length, .02" space | SAME |
| Single Line Stream | <br>.007" line, .05" length, .03" space | SAME |
| CANALS<br>*Label as required: 5.5 pt Helvetica 66 Medium Italic (Caps or l.c.)* | <br>.015" line | SAME |
| To Scale | <br>.007" line each side | SAME |
| Abandoned or Under Construction | <br>.015" line, .12" dash, .02" space | SAME |
| To Scale | <br>.007" line each side, .12" dash, .02" space | SAME |

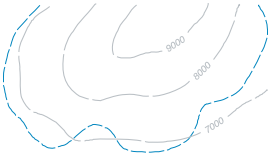
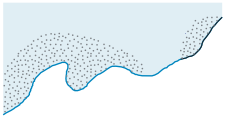
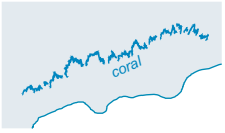
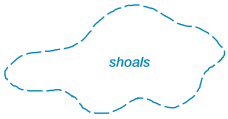
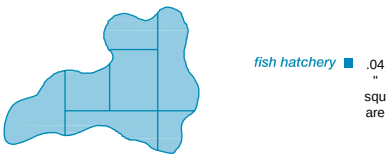
# PART 1: TOPOGRAPHICAL INFORMATION

| HYDROGRAPHY | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| SMALL CANALS AND DRAINAGE/IRRIGATION DITCHES<br>Perennial |  <br>.007" line | SAME |
| Non-Perennial | <br>.007" line, .20" dash, three (3) dots in .10" space | SAME |
| Abandoned or Ancient<br>*Label appropriately:*<br>*5.5 pt Helvetica 66 Medium Italic (l.c.)* |  <br>.007" line, .12" dash, .02" space | SAME |
| Numerous<br>*Representative pattern and/or descriptive note.* |  | SAME |
| Numerous<br>*Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* | *numerous canals and ditches* | SAME |
| SALT EVAPORATORS AND SALT PANS MAN EXPLOITED<br>*Pictorial pattern when from photography or equivalent source.*<br>*Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* | *salt pans*<br>  <br>.007" line,<br>with No. 22 dot pattern (AP-41 at 45°)<br>superimposed when pattern is arbitrary | SAME |
| SWAMPS, MARSHES AND BOGS |  | SAME |
| HUMMOCKS AND RIDGES | <br>.01" dot, .03" interval | SAME |
| MANGROVE AND NIPA<br>*Label appropriately: 5.5 pt Helvetica 66 Medium Italic (l.c.)* | | SAME |

# PART 1: TOPOGRAPHICAL INFORMATION

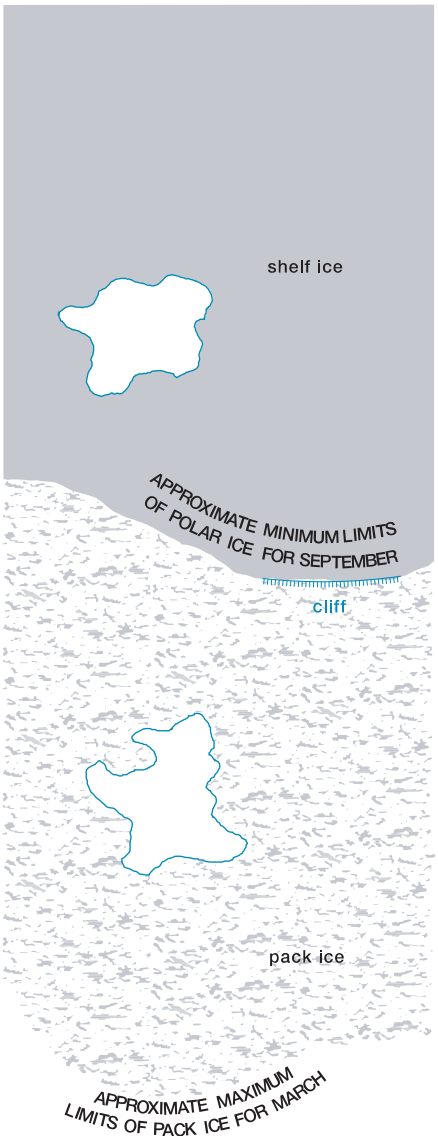
| HYDROGRAPHY | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| PEAT BOGS<br>*Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* | | SAME |
| TUNDRA<br>*Label: 5.5 pt to 9 pt Helvetica 65 Medium (l.c.)* | tundra | SAME |
| CRANBERRY BOGS<br>*Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* |  <br>.007" line | SAME |
| RICE PADDIES<br>*Extensive areas indicated by label only.*<br>*Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* | | SAME |
| LAND SUBJECT TO INUNDATION |  | SAME |
| SPRINGS, WELLS AND WATERHOLES | .04" diameters<br>DO NOT LABEL | SAME |
| GLACIERS |  <br>Limits: .005" line, .08" dash, .015" space | SAME |
| Glacial Moraines |  | SAME |
| ICE CLIFFS |  <br>.005" line. Dashes: .15" to .2" spaced<br>.02" apart. Ticks: .02" long, .02" space | SAME |

# PART 1: TOPOGRAPHICAL INFORMATION

| HYDROGRAPHY | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| SNOWFIELDS, ICE FIELDS, AND ICE CAPS |   Limits: .005" line, .08" dash, .015" space | SAME |
| ICE PEAKS | .006" to .008" line; NW light source shading | SAME |
| FORESHORE FLATS<br>*Tidal flats exposed at low tide* |  | SAME |
| ROCKS - ISOLATED<br>*Bare or Awash* |  Orient one line with latitude. | SAME |
| WRECKS<br>*Exposed* | Location to indicate direction and position of wreck when information available. | SAME |
| REEFS - ROCKY OR CORAL<br>*Label appropriately: 5.5 pt Helvetica 66 Medium Italic (l.c.)* |   .007" line | SAME |
| MISCELLANEOUS UNDERWATER FEATURES NOT OTHERWISE SYMBOLIZED<br>*Label: 5.5 pt Helvetica 66 Medium Italic (l.c.)* |   .007" line, .08" dash, .02" space | SAME |
| FISH PONDS AND HATCHERIES<br>*To scale when possible*<br>*Label when necessary for clarity:*<br>*5.5 pt Helvetica 66 Medium Italic (l.c.)* |   .007" line<br>Major divisions .007" lines<br>Major divisions to scale: .005" lines | SAME |

# PART 1: TOPOGRAPHICAL INFORMATION

| HYDROGRAPHY | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| ICE<br>*Label appropriately* | | |
| Permanent Polar Ice | | |
| Pack Ice | | |




*7 pt Helvetica 65 Medium (Caps)

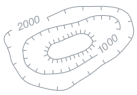
7 pt Helvetica 65 Medium (l.c.)

7 pt Helvetica 65 Medium (l.c.)

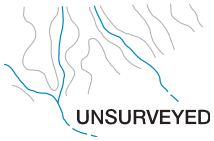
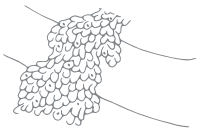
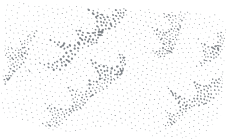
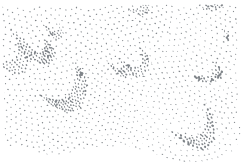
*7 pt Helvetica 65 Medium (Caps)

* Type size may be reduced to 6.5 pt or 5.5 pt for smaller areas

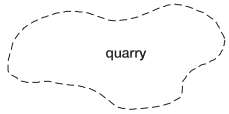
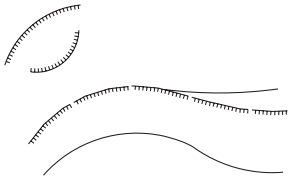
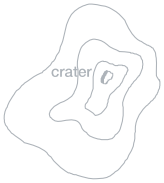
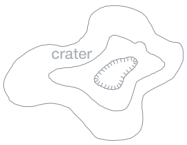
# PART 1: TOPOGRAPHICAL INFORMATION

| RELIEF | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| CONTOURS<br>Basic | <br>.006" line | SAME |
| Intermediate | <br>.006" line | <br>.004" line |
| Auxiliary | <br>.006" line | <br>.004" line .15" dash .02" space |
| Approximate | Approximate Basic<br>.006" line<br>.30" dash<br>.02" space<br><br>Approximate Intermediate<br>.006" line<br>.30" dash<br>.02" space<br><br>Approximate Auxiliary<br>.006" line<br>.15" dash<br>.02" space | Approximate Basic<br>.006" line<br>.30" dash<br>.02" space<br><br>Approximate Intermediate<br>.004" line<br>.30" dash<br>.02" space<br><br>Approximate Auxiliary<br>.004" line<br>.15" dash<br>.02" space |
| Depression<br>*Illustration includes mound within depression* |  <br>Spurs: .02" long. Space: .02", .04", .08" and .15", as applicable | SAME |
| Values<br>*Label: 4.5 pt Helvetica 66 Medium Italic* | | SAME |
| SPOT ELEVATIONS<br>Position Accurate | <br>.025" diameter dot | SAME |
| Position Accurate<br>Elevation approximate | <br>.005" line, .05" overall | SAME |
| Position Approximate | <br>Center over approximate location<br>Omit point indicator | SAME |
| Highest in general area | Symbolization (dot or "x") depends upon accuracy determination<br> <br>.04" diameter dot | <br>.025" diameter dot |
| Highest on chart | Symbolization (dot or "x") depends upon accuracy determination<br> <br>.04" diameter dot | SAME |

# PART 1: TOPOGRAPHICAL INFORMATION

| RELIEF | TAC-SECTIONAL/TPC<br>1:250,000-1:500,000 | WAC/ONC<br>1:1,000,000 |
|---|---|---|
| HACHURING | <br>.006" to .008" lines. NW light source shading | SAME |
| UNCONTOURED AREAS<br>*Label appropriately as required* | <br>**RELIEF DATA INCOMPLETE**<br>No tint. The note "RELIEF DATA INCOMPLETE" (8 pt News Gothic Caps) shall be centered in the area, and/or "LIMITS OF RELIABLE RELIEF INFORMATION" (6 pt Trade Gothic Caps) shall be positioned adjacent to the limits of reliable relief coverage on the black plate. | SAME |
| UNSURVEYED AREAS<br>*Label: 5.5 pt to 9 pt Helvetica 65 Medium (Caps)* |  <br>UNSURVEYED | SAME |
| DISTORTED SURFACE AREAS<br>*Label appropriately: 5.5 pt to 9 pt Helvetica 65 Medium (l.c.)* | <br> | SAME |
| LAVA FLOWS |  <br>.006" line | SAME |
| SAND OR GRAVEL AREAS<br>*Large and indefinite areas shall be indicated by label only* | | SAME |
| SAND RIDGES<br>*Large and indefinite areas shall be indicated by label only*<br>To Scale |  | SAME |
| SAND DUNES<br>*Large and indefinite areas shall be indicated by label only*<br>To Scale |  | SAME |
| SHADED RELIEF | | SAME |

# PART 1: TOPOGRAPHICAL INFORMATION

| RELIEF | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | WAC/ONC 1:1,000,000 |
|---|---|---|
| ROCK STRATA OUTCROP<br>*When actual shape is known*<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* | <br>.006" line | SAME |
| QUARRIES TO SCALE<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* |  <br>.005" line, .04" dash, .02" space. | SAME |
| STRIP MINES, MINE DUMPS AND TAILINGS<br>*Label appropriately: 5.5 pt Helvetica 65 Medium (l.c.)*<br>To Scale | | SAME |
| | | SAME |
| ESCARPMENTS,<br>BLUFFS, CLIFFS,<br>DEPRESSIONS, ETC. |  <br>.006" line, .15" to .20" dash, spaced .02" apart. Spurs: .02" long. .02" space | SAME |
| LEVEES AND ESKERS<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* | <br>.018" line. | SAME |
| CRATERS<br>*Label: 5.5 pt Helvetica 65 Medium (l.c.)* |  <br>.006" line, increased at NW for shaded effect | SAME |
| |  <br>.006" line. Spurs .02" long. .02" space | SAME |
| MOUNTAIN PASSES<br>*Label with name and elevation of pass.* | | SAME |

## TYPE STYLES & SIZES

| ITEM | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | TYPE SAMPLES | WAC/ONC 1:1,000,000 | TYPE SAMPLES |
|---|---|---|---|---|
| CITIES AND TOWNS<br>THREE CATEGORY BREAKDOWN<br>1. Large Cities<br>2. Cities and Large Towns<br>3. Towns and villages | 9 pt New Century Schoolbook Roman<br>6.5 pt Helvetica 65 Medium (Caps)<br>6.5 pt Helvetica 65 Medium (Caps and l.c.) | ST LOUIS<br>NASHVILLE<br>Frankfort | 9 pt New Century Schoolbook Roman<br>6.5 pt Helvetica 65 Medium (Caps)<br>6.5 pt Helvetica 65 Medium (Caps and l.c.) | ST LOUIS<br>NASHVILLE<br>Frankfort |
| COUNTRY, STATE, AND PROVINCE NAMES<br>Centered Over Area<br>Along Boundaries<br>Under Island Names (Denoting Possessions) | 8 pt to18 pt New Century SchoolBook Bold<br>5.5 pt to 7 pt Helvetica 65 Medium (Caps)<br>5.5 pt to 24 pt Helvetica 65 Medium (Caps) | MEXICO<br>UNITED STATES (ARIZONA)<br>CANADA | 8 pt to 18 pt New Century SchoolBook Bold<br>5.5 pt to 7 pt Helvetica 65 Medium (Caps)<br>5.5 pt to 24 pt Helvetica 65 Medium (Caps) | MEXICO<br>UNITED STATES (ARIZONA)<br>CANADA |
| DATE LINE | 8 pt New Century SchoolBook Bold | INTERNATIONAL DATE LINE | 8 pt New Century SchoolBook Bold | INTERNATIONAL DATE LINE |
| US/ RUSSIA MARITIME BOUNDARY | 5.5 pt to 7 pt Helvetica 65 Medium (Caps) | RUSSIA<br>UNITED STATES | 5.5 pt to 7 pt Helvetica 65 Medium (Caps) | RUSSIA<br>UNITED STATES |
| MOUNTAIN PEAKS | 5.5 pt to 7 pt Helvetica 65 Medium (Caps) | MOUNT SHASTA | 5.5 pt to 7 pt Helvetica 65 Medium (Caps) | MOUNT SHASTA |
| MOUNTAIN RANGES AND RIDGES; DESERTS | 8 pt to 36 pt Helvetica 65 Medium (Caps) (Spaced Proportionately) | J U R A M O U N T A I N S | 8 pt to 36 pt Helvetica 65 Medium (Caps) (Spaced Proportionately) | J U R A M O U N T A I N S |
| MOUNTAIN PASSES<br>PASS ELEVATION | 5.5 pt Helvetica 65 Medium (Caps)<br>6 pt Helvetica 66 Medium Italic | BRENNER<br>*12632* | 5.5 pt Helvetica 65 Medium (Caps)<br>6 pt Helvetica 66 Medium Italic | BRENNER<br>*12632* |
| RESERVATIONS, NATIONAL FORESTS, PARKS, ETC. | 5.5 pt to 36 pt Helvetica 65 Medium (Caps) | YELLOWSTONE | 5.5 pt to 36 pt Helvetica 65 Medium (Caps) | YELLOWSTONE |
| ROAD NAMES | 4.5 pt Helvetica 65 Medium (Caps) | LINCOLN HIGHWAY | 4.5 pt Helvetica 65 Medium (Caps) | LINCOLN HIGHWAY |
| ELEVATIONS<br>Elevation and Position Accurate | 6 pt Helvetica 66 Medium Italic | *1412* | 6 pt Helvetica 66 Medium Italic | *1412* |
| Position Accurate, Elevation Approximate | 6 pt Helvetica 66 Medium Italic | *1412* | 6 pt Helvetica 66 Medium Italic | *1412* |
| Approximate or Doubtful Location | 6 pt Helvetica 66 Medium Italic | *1412* | 6 pt Helvetica 66 Medium Italic | *1412* |
| Highest in General Area | 7 pt Helvetica 66 Medium Italic | *12770* | 7 pt Helvetica 66 Medium Italic | *12770* |
| Highest Elevation on the Chart | 8 pt Helvetica 66 Medium Italic | *13770* | 8 pt Helvetica 66 Medium Italic | *13770* |

## TYPE STYLES & SIZES

| ITEM | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | TYPE SAMPLES | WAC/ONC 1:1,000,000 | TYPE SAMPLES |
|---|---|---|---|---|
| 1000' Maximum Elevation Figure (MEF) | 24 pt Helvetica Condensed Bold | 12 | 24 pt Helvetica Condensed Bold | 12 |
| 100' Maximum Elevation Figure | 18 pt Helvetica Condensed Bold | 4 | 18 pt Helvetica Condensed Bold | 4 |
| Stream Elevation | 5 pt Helvetica 66 Medium Italic | *670* | 5 pt Helvetica 66 Medium Italic | *670* |
| Lake Elevation | 6 pt Helvetica 66 Medium Italic | *520* | 6 pt Helvetica 66 Medium Italic | *520* |
| CONTOUR VALUES | 4.5 pt Helvetica 66 Medium Italic | *1000* | 4.5 pt Helvetica 66 Medium Italic | *1000* |
| ISLANDS, ISLAND GROUPS, ARCHIPELAGOS, PENINSULAS POINTS AND CAPES | 5.5 pt to 36 pt Helvetica 65 Medium (Caps or Caps & l.c.) | SEYCHELLES ISLANDS | 5.5 pt to 36 pt Helvetica 65 Medium (Caps or Caps & l.c.) | SEYCHELLES ISLANDS |
| UNUSUAL LAND AREAS (rock outcrop, lava, light or dark areas, etc.) | 5.5 pt to 9 pt Helvetica 65 Medium (l.c.) (Spaced Proportionately) | dark area | 5.5 pt to 9 pt Helvetica 65 Medium (l.c.) (Spaced Proportionately) | dark area |
| MISCELLANEOUS CULTURAL FEATURES (towers, tanks, wharfs, fishing stakes, cable areas, etc.) | 5.5 pt Helvetica 65 Medium (l.c.) | athletic field | 5.5 pt Helvetica 65 Medium (l.c.) | athletic field |
| OCEANS, SEAS, GULFS, BAYS, SOUNDS, HARBORS, CHANNELS, STRAITS, RIVERS, LAKES, RESERVOIRS. | 5.5 pt to 36 pt Helvetica 66 Medium Italic (Caps or Caps & l.c.) | *PACIFIC* | 5.5 pt to 36 pt Helvetica 66 Medium Italic (Caps or Caps & l.c.) | *PACIFIC* |
| CANALS | 5.5 pt to 7 pt Helvetica 66 Medium Italic (Caps or Caps & l.c.) | *ERIE* | 5.5 pt to 7 pt Helvetica 66 Medium Italic (Caps or Caps & l.c.) | *ERIE* |
| HYDROGRAPHIC DESCRIPTIVE NOTES (falls, rapids, springs, wells, waterholes, etc.) | 5.5 pt Helvetica 66 Medium Italic (l.c.) | *numerous wells* | 5.5 pt Helvetica 66 Medium Italic (l.c.) | *numerous wells* |
| VARIOUS OFFSHORE AREA NOTES AND FEATURES | 5.5 pt to 7 pt Helvetica 65 Medium (l.c.) | breakwater | 5.5 pt to 7 pt Helvetica 65 Medium (l.c.) | breakwater |
| LABELING FOR ROADS AND RAILROADS (under construction, approximate alignment, etc. | 5.5 pt Helvetica 65 Medium (l.c.) | railroad-under construction<br>road-under construction | 5.5 pt Helvetica 65 Medium (l.c.) | railroad-under construction<br>road-under construction |
| LABELING FOR LOOKOUT TOWERS Air Marked Identification Label | 6 pt Helvetica Condensed Bold (Caps & figs) | P-17 | N/A | |

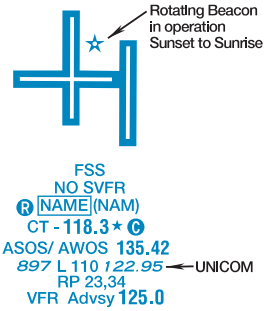
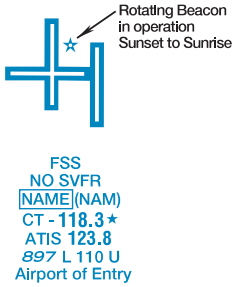
TYPE STYLES & SIZES

| ITEM | TAC-SECTIONAL/TPC 1:250,000-1:500,000 | TYPE SAMPLES | WAC/ONC 1:1,000,000 | TYPE SAMPLES |
|---|---|---|---|---|
| LABELING FOR TRANSMISSION LINES | 9 pt Helvetica 65 Medium (Caps) | CAUTION | N/A | |
| LABELING FOR FERRY | 5.5 pt Helvetica 65 Medium (l.c.) | ferry | 5.5 pt Helvetica 65 Medium (l.c.) | ferry |
| LABELING FOR FISH HATCHERY | 5.5 pt Helvetica 66 Medium Italic (l.c.) | ■ *fish hatchery* | 5.5 pt Helvetica 66 Medium Italic (l.c.) | ■ *fish hatchery* |
| DESIGNATED VFR CHECKPOINTS | 6.5 pt Trade Gothic Bold (Caps) | STATE CAPITOL | N/A | |
| LABELING FOR COAST GUARD STATION | 6 pt Helvetica Condensed Bold (Caps) | ✦ CG | N/A | |
| TIME ZONE AND CONVERSION FACTOR | 6 pt Helvetica 65 Medium (Caps & figs) | MST<br>+7 (+6DT) = UTC | N/A | |

# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| AIRPORTS | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| LANDPLANE-MILITARY<br>*Refueling and repair facilities for normal traffic.*<br>*All recognizeable runways, including some which may be closed, are shown for visual identification.*<br>*Airports having control towers (CT) are shown in blue, all others in magenta.* | | PATTERN 20% reduction of 1:500,000 |
| LANDPLANE-CIVIL<br>*Refueling and repair facilities for normal traffic.* | | |
| SEAPLANE-CIVIL<br>*Refueling and repair facilities for normal traffic.* | | |
| LANDPLANE CIVIL-MILITARY<br>*Refueling and repair facilities for normal traffic.* | | |
| LANDPLANE-EMERGENCY<br>*No facilities or complete information is not available.*<br>*Add appropriate notes as required:*<br>*"closed, approximate position, existence unconfirmed".* | PUBLIC USE - Limited attendance or no service available<br>RESTRICTED OR PRIVATE - Use only in emergency, or by specific authorization<br>UNVERIFIED - A landing area available but warranting more than ordinary precaution due to:<br>(1) lack of current information on field conditions, and / or<br>(2) available information indicates peculiar operating limitations.<br>ABANDONED - Depicted for landmark value or to prevent confusion with an adjacent usable landing area. (Normally at least 3000' paved) | |
| SEAPLANE-EMERGENCY<br>*No facilities or complete information is not available* | | |
| HELIPORT<br>*(Selected)* | | |

# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| AIRPORTS | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| ULTRALIGHT FLIGHT PARK<br>*(Selected)* | Ⓕ | NOT SHOWN |
| AIRPORT DATA GROUPING |  |  |

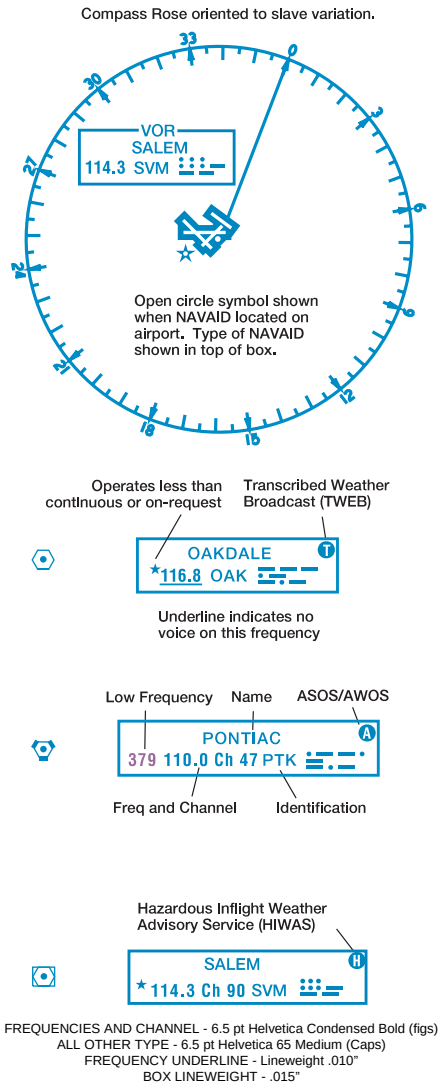
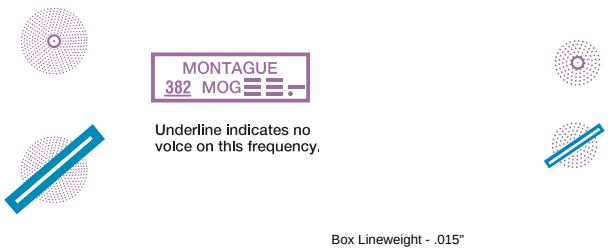
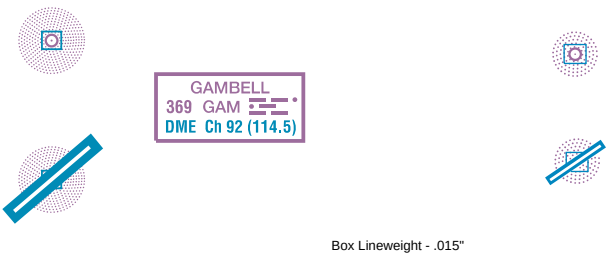
FSS - Flight Service Station on field
NO SVFR - Airports where fixed wing special visual flight rules operations are prohibited (shown above airport name) F.A.R. 91
[ ] - Indicates F.A.R. 93 Special Air Traffic Rules and Airport Traffic Patterns
Ⓡ - Airport Surveillance Radar (Not shown on WAC)
(NAM) - Location Identifier (Not shown on WAC)
CT - 118.3 - Control Tower (CT) - primary frequency
★ - Star indicates operation part-time. See tower frequencies tabulation for hours of operation
Ⓒ - Indicates Common Traffic Advisory Frequencies (CTAF) (Not shown on WAC)
ATIS 123.8 - Automatic Terminal Information Service
ASOS/ AWOS 135.42 - Automated Surface Weather Observing Systems (Shown when full-time ATIS is not available) Some ASOS/AWOS facilities may not be located at airport. (Not shown on WAC)
897 - Elevation in feet
L - Lighting in operation Sunset to Sunrise
*L - Lighting limitations exist; refer to Airport/Facility Directory.
110 - Length of longest runway in hundreds of feet; usable length may be less.
UNICOM - Aeronautical advisory station ("U" only on WAC)
RP 23,34 - Runways with Right Traffic Patterns (public use) (Not shown on WAC)
RP★ - (See Airport/Facility Directory)
VFR Advsy 125.0 - VFR Advisory Service shown where ATIS is not available and frequency is other than primary CT frequency.

When lighting is not available, the respective character is replaced by a dash. All lighting codes refer to runway lights. Lighted runway may not be the longest or lighted full length.

TYPE STYLES AND SIZE

NAME - 6.5 pt Helvetica 65 Medium
CONTROL TOWER FREQUENCY - 7.5 pt Helvetica Condensed Bold (figs)
ATIS and AWOS FREQUENCIES - 7 pt Helvetica Condensed Bold (figs)
LENGTH OF RUNWAY - 6.5 pt Helvetica 65 Medium (Caps, lc & figs)
AIRPORT OF ENTRY - 6.5 pt Helvetica 65 Medium (Caps, lc)
ELEVATION - 5.5 pt Copperplate 31 AB Italic (figs)
LIGHTING - 6.5 pt Helvetica 65 Medium (Caps, figs)
UNICOM FREQUENCY - 5.5 pt Copperplate 31 AB Italic (figs)
VFR ADV FREQUENCY - 7.5 pt Helvetica Condensed Bold (figs)
OTHER DATA - 6.5 pt Helvetica 65 Medium (Caps, lc & figs)

# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| RADIO AIDS TO NAVIGATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| VHF OMNI-DIRECTIONAL RANGE (VOR) |   | |
| VOR | | |
| VORTAC | | |
| VOR-DME | | |
| NON-DIRECTIONAL RADIOBEACON (NDB) |   | |
| NDB-DME |   | |

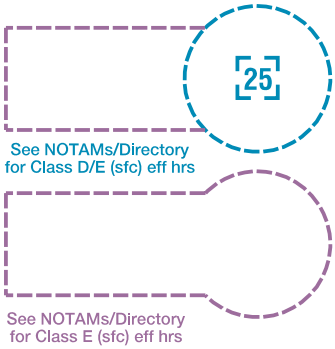
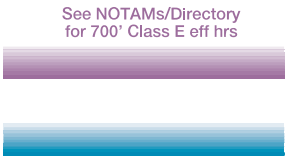
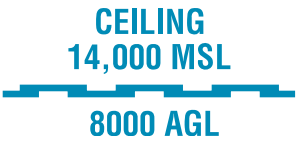
# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| RADIO AIDS TO NAVIGATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| ILS COMPONENTS<br><br>*Shown when component of airway system or used in the description of Class B airspace.* | Localizer ..... LCZR<br>OR<br>LOCALIZER 109.5 I-BED<br><br>Locator Beacon..... LOM<br>OR<br>LOM 388 DT<br>(WAC Only)<br><br>ILS-DME..... SALT LAKE CITY DME ANT (I-BNT) Ch 52 (111.5) | |
| BROADCAST STATIONS (BS)<br><br>*Shown when requested by proper authority or designated as a VFR Checkpoint.* | KFTM<br>BS KFTM 1400<br><br>FREQUENCY - 6.5 pt Helvetica Condensed Bold<br>CALL LETTERS - 6.5 pt Helvetica 65 Medium (Caps)<br>Box Lineweight - .006" | |
| FLIGHT SERVICE STATION (FSS)<br><br>REMOTE COMMUNICATIONS OUTLET (RCO) | Heavy line box indicates Flight Service Station (FSS). Frequencies 121.5, 122.2, 243.0, and 255.4 (Canada - 121.5, 126.7, and 243.0) are normally available at all FSSs and are not shown above boxes. All other frequencies are shown. Frequencies transmit and receive except those followed by an R.<br>R - receive only.<br><br>PONTIAC PTK<br>No NAVAID of the same name as FSS<br>OR<br>122.1R<br>IDAHO FALLS 109.0 Ch 27 IDA<br>FSS oper 0500-2300 Boise FSS other times.<br>NAVAID same name as FSS but not an RCO<br>FSS Box Lineweight - .030"<br><br>Frequencies above thin line box are remoted to NAVAID site. Other frequencies at FSS providing voice communication may be available determined by altitude and terrain. Consult Airport / Facility Directory for complete information.<br><br>Thin line box without frequencies and controlling FSS name indicates no FSS frequency available.<br><br>123.6<br>OLYMPIA RCO<br>McCHORD<br>122.35 ST PAUL 108.6 STP MINNEAPOLIS<br>122.35 HUMPHREY 275 HPY MILES CITY<br>FSS providing voice communication<br><br>FREQUENCY AND CHANNEL - 6.5 pt Helvetica Condensed Bold<br>ALL OTHER TYPE - 6.5 pt Helvetica 65 Medium (Caps & lc)<br>FREQUENCY UNDERLINE - Lineweight .010"<br>BRACKET - Lineweight .010"<br>RCO Box Lineweight - .015" | |
| AIR FORCE STATION (AFS)<br><br>LONG RANGE RADAR STATION (LRRS) | 122.0 AFS 123.6 POINT BARROW<br>122.4 AFS 123.6 CAPE LEWISTON 206 LWS<br>AFS at airport with NDB<br><br>122.4 LRRS 122.55 BARTER ISLAND<br>122.4 LRRS 123.6 CAPE LISBURNE 385 LUR<br>LRRS at airport with NDB | |
| OFF AIRPORT AWOS/ASOS | SANDBERG ASOS 120.625 | |

# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| AIRSPACE INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| CLASS B AIRSPACE<br>*Appropriate notes as required may be shown.*<br>*Only the airspace effective below 18,000 feet MSL are shown.*<br>*(Mode C see FAR 91.215/AIM)* | LAS VEGAS CLASS B<br>NAVAID identifier and distance from facility (TAC Only).<br>LAS 20 NM<br>LAS 031°<br>NAVAID identifier and radial from facility (TAC Only).<br>Line Screened - .060"<br>Class B internal segments on Sectional -.040"<br>TYPE - 9 pt Trade Gothic Bold (Caps)<br>ARC AND RADIAL TYPE - 7 pt to 10 Helvetica 65 Medium (Caps & figs) | Outer limit only, segments not shown<br>Line Screened - .050"<br>FOR FLIGHTS AT AND BELOW 8000' MSL SEE KANSAS CITY VFR TERMINAL AREA CHART<br>TYPE - 7 pt to 10 pt Copperplate Gothic 31 AB (Caps & figs)<br>Box Lineweight - .030" |
| | 80 - Ceiling of Class B in hundreds of feet MSL<br>40 - Floor of Class B in hundreds of feet MSL<br>TYPE - 8 pt to 24 pt Helvetica Condensed Bold (Caps & figs).<br>CTC LAS VEGAS APP ON 121.1 OR 257.8<br>(TAC only)<br>TYPE - 7 pt to 10 pt Helvetica 65 Medium (Caps & figs)<br>Box Lineweight - .030" | NOT SHOWN |
| CLASS C AIRSPACE<br>*Appropriate notes as required may be shown.*<br>*(Mode C see FAR 91.215/AIM)* | BURBANK CLASS C<br>See NOTAMs/Directory for Class C eff hrs<br>Line Screened - .060"<br>TYPE - 9 pt Trade Gothic Bold (Caps)<br>PART-TIME TYPE - 6.5 pt Helvetica 65 Medium (Caps & l.c.) | BOISE CLASS C<br>See NOTAMs/Directory for Class C eff hrs<br>Outer limit only, segments not shown<br>FOR FLIGHTS AT OR BELOW 6600' MSL SEE PHOENIX VFR SECTIONAL CHART<br>Line Screened - .050"<br>TYPE - 6 pt to 8 pt Helvetica 65 Medium (Caps & figs)<br>PART-TIME TYPE - 6.5 pt Helvetica 65 Medium (Caps & l.c.)<br>Box Lineweight - .030" |
| | 48 - Ceiling of Class C in hundreds of feet MSL<br>30 - Floor of Class C in hundreds of feet MSL<br>TYPE - 8 pt to 24 pt Helvetica Condensed Bold (Caps & figs)<br>CTC BURBANK APP WITHIN 20 NM ON 124.6 395.9<br>TYPE - 7 pt to 10 pt Helvetica 65 Medium (Caps & figs)<br>Box Lineweight - .030" | NOT SHOWN |
| CLASS D AIRSPACE | See NOTAMs/Directory for Class D eff hrs<br>27<br>See NOTAMs/Directory for Class D/E (sfc) eff hrs<br>-27<br>(A minus in front of the figure is used to indicate "from surface to but not including...")<br>ALTITUDE IN HUNDREDS OF FEET MSL<br>CEILING TYPE - 8 pt to 12 pt Helvetica Condensed Bold (figs)<br>PART TIME TYPE - 6.5 pt Helvetica 65 Medium (Caps and l.c.)<br>Lineweight - .020" | NOT SHOWN |

# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| AIRSPACE INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| CLASS E AIRSPACE<br><br>*The limits of Class E airspace shall be shown by narrow vignettes or by the dashed magenta symbol. Individual units of designated airspace are not necessarily shown, instead, the aggregate lateral and vertical limits shall be defined by the following:*<br><br>*Airspace beginning at the surface designated around airports ...*<br><br>*Airspace beginning at 700 feet AGL ...*<br><br>*Airspace beginning at 1200 feet AGL or greater that abuts uncontrolled airspace (Class G) ...*<br><br>*Differentiates floors of airspace greater than 700 feet above the surface...*<br><br>*When the ceiling is less than 18,000 feet MSL, the value, prefixed by the word "ceiling", shall be shown along the limits.* |  <br>CEILING TYPE - 8 pt to 12 pt Helvetica Condensed Bold (figs)<br>PART TIME TYPE - 6.5 pt Helvetica 65 Medium (Caps and l.c.)<br>Lineweight - .020"<br><br>  <br>Tint Width - .110"<br><br>  <br>TYPE - 6 pt to 18 pt Helvetica Condensed Bold (Caps & figs)<br>AGL - Above Ground Level<br>MSL - Mean Sea Level | NOT SHOWN |
| OFFSHORE CONTROL AREAS | <br><br> <br>Lineweight - .035"<br>Line length - .35"<br>Line Overlap - .1" each side<br>TYPE - 7 pt Copperplate Gothic 31 AB (Caps & figs)<br>FLOOR & CEILING TYPE - 6 pt to 18 pt Alternate Gothic (Caps & figs) | <br><br> <br>Lineweight - .015"<br>TYPE - 7 pt Copperplate Gothic 31 AB (Caps & figs) |

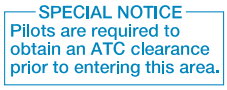
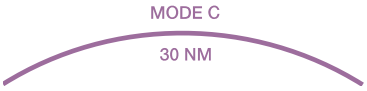
# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| AIRSPACE INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| CANADIAN AIRSPACE<br><br>*Individual units of designated Canadian airspace are not necessarily shown; instead, the aggregate lateral and vertical limits shall be portrayed as closely as possible to the comparable U.S. airspace.*<br><br>*Appropriate notes as required may be shown.* | TCA Class C/D<br><br>Line - Screened .060"<br>Class C internal segments on Sectional - .040"<br><br>125 - Ceiling of TCA Class C/D in hundreds of feet MSL<br>25 - Floor of TCA Class C/D in hundreds of feet MSL<br><br>TYPE - 8 pt to 24 pt Helvetica Condensed Bold (Caps & figs) | TCA Class C/D<br><br>Outer limit only, segments not shown<br><br>Line - Screened .050" |
| | Class D CZ<br>30<br>Class C or D Control Zone<br><br>Class E Control Zone<br><br>ALTITUDE IN HUNDREDS OF FEET MSL<br><br>CEILING TYPE - 8 pt to 12 pt Helvetica Condensed Bold (figs)<br>OTHER TYPE - 6.5 pt Helvetica 65 Medium (Caps and l.c.)<br>Lineweight - .020" | NOT SHOWN |
| FLIGHT INFORMATION REGIONS (FIR) AND /OR (CTA)<br><br>OCEANIC CONTROL AREAS (OCA) | No FIR exists this side - No ticks<br>MONCTON FIR CZQM<br>WINNIPEG FIR CZWG<br>EDMONTON FIR CZEG<br>OAKLAND OCEANIC CONTROL AREA<br><br>Size of type varies with size of area from 6 pt to 24 pt Futura Book (Caps)<br>Lineweight - .015"<br>Spacing of ticks - .30" | |
| AIR DEFENSE IDENTIFICATION ZONE (ADIZ)<br><br>*Note. Delimiting line not shown when it coincides with International Boundary, projection lines or other linear features.* | ALASKA ADIZ<br><br>TYPE - Size varies with size of area from 8 pt to 32 pt Copperplate Gothic 31 AB (Caps)<br>Lineweight - .015"<br>Dot Size - .025"<br>Width of symbol - .10" | |
| LOW ALTITUDE AIRWAYS VOR AND LF / MF (CLASS E AIRSPACE)<br><br>*Low altitude Federal Airways are indicated by centerline.*<br><br>*Only the controlled airspace effective below 18,000 feet MSL is shown.*<br><br>*Only direct routes will be depicted with total mileages between NAVAIDS.* | V2N ← 270°<br>Alternate Airway radial<br>Total mileage between NAVAIDS on direct Airways. 25<br>V2 ← 255°<br>Enroute Airway radial<br>R40<br>LF / MF Airway<br><br>BEARINGS - 9 pt Helvetica 66 Medium Italic (figs)<br>AIRWAY DESIGNATIONS - 7 pt Helvetica Condensed Black (Caps & figs)<br>AIRWAY WIDTH - Screened .060"<br>MILEAGE - 7 pt Helvetica Bold (figs)<br>Lineweight of mileage box - .010" | V2N ← 270°<br>Alternate Airway radial<br>V2 ← 255°<br>Enroute Airway radial<br>R40<br>LF / MF Airway<br><br>BEARINGS - 7 pt Helvetica 66 Medium Italic (figs)<br>AIRWAY DESIGNATIONS - 6 pt Helvetica Condensed Black (Caps & figs)<br>AIRWAY WIDTH - Screened .040" |

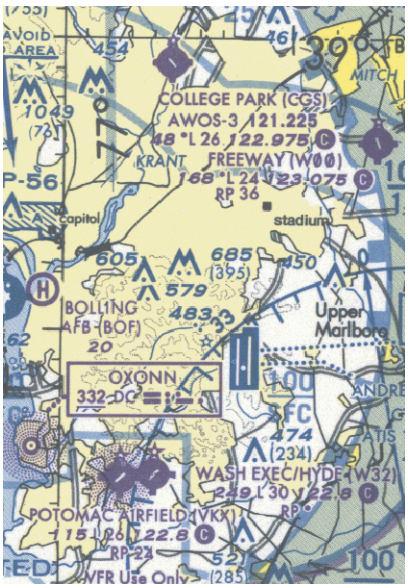
# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| AIRSPACE INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| MISCELLANEOUS AIR ROUTES<br><br>*Only direct routes will be depicted with total mileages between NAVAIDS.* | BR 63V ← 265°<br>125 Bahama Route<br>A 301<br>Oceanic & ATS Route<br>AR5<br>Atlantic Route<br>GULF RTE 26<br>Gulf Route<br>B ROUTE 2<br>Class G Route<br><br>BEARINGS - 9 pt Helvetica 66 Medium Italic (figs)<br>AIRWAY DESIGNATIONS -7 pt Helvetica Condensed Black (Caps & figs)<br>AIRWAY WIDTH - Screened .060"<br>MILEAGE - 7 pt Helvetica Bold (figs)<br>Lineweight of mileage box - .010" | BR 63V ← 265°<br>Bahama Route<br>A 301<br>Oceanic & ATS Route<br>AR5<br>Atlantic Route<br>GULF RTE 26<br>Gulf Route<br>B ROUTE 2<br>Class G Route<br><br>BEARINGS - 7 pt Helvetica 66 Medium Italic (figs)<br>AIRWAY DESIGNATIONS - 6 pt Helvetica Condensed Black (Caps & figs)<br>AIRWAY WIDTH - Screened .040" |
| SPECIAL USE AIRSPACE<br><br>*Only the airspace effective below 18,000 feet MSL are shown.*<br><br>*The type of area shall be spelled out in large areas if space permits.* | P-56 OR R-6401 OR W-518<br>PROHIBITED, RESTRICTED OR WARNING AREA<br><br>VANCE 2 MOA<br>MILITARY OPERATIONS AREA (MOA) | ALERT AREA A-631<br>CONCENTRATED STUDENT HELICOPTER TRAINING<br>ALERT AREA<br><br>TYPE - 5 to 14 pt Copperplate Gothic 31 AB (Caps & figs)<br>Boundary Outline - .015"<br>Width of Cross Hatching - .10"<br>Lineweight of Cross Hatching - .007" |
| MILITARY TRAINING ROUTES (MTR) | ←VR269<br><br>Center Line of Route - Screened .030"<br>ROUTE DESIGNATIONS - 6 pt Copperplate Gothic 31 AB (Caps & figs) | NOT SHOWN |
| SPECIAL MILITARY ACTIVITY ROUTES (SMAR)<br><br>*Boxed notes shown adjacent to route.* | SPECIAL MILITARY ACTIVITY CONTACT MOBILE FSS ON 123.6 FOR ACTIVITY STATUS<br><br>40 / 05 AGL<br>45 / 05 AGL<br><br>40 — Ceiling of SMAR in hundreds of feet MSL<br>05 AGL — Floor of SMAR in hundreds of feet AGL<br><br>TYPE - 10 pt to 24 pt Helvetica Condensed Bold (figs)<br>Boundary Outline - .015"<br>Width of Cross Hatching - .10"<br>Segment Lineweight - .030" | NOT SHOWN |

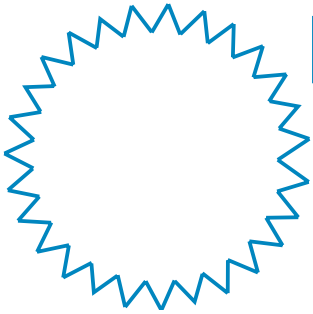
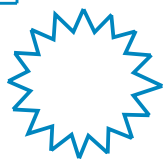
# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| AIRSPACE INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| SPECIAL AIR TRAFFIC RULES / AIRPORT TRAFFIC PATTERNS (FAR 93)<br><br>*Appropriate boxed note as required shown adjacent to area.* | <br>Boundary outline - .015"<br>Width of cross hatching - .10"<br>  <br><br>TYPE - 7 pt Helvetica 65 Medium (Caps & lc<br>Box Lineweight - .006" | |
| SPACE OPERATIONS AREAS (FAR 91.143) | <br><br>Boundary - .015"<br>Area - Screened<br>TYPE - 6 pt to 11 pt Helvetica 65 Medium (Caps) | NOT SHOWN |
| MODE C (FAR 91.215)<br><br>*Appropriate notes as required may be shown.*<br><br>*Additional MODE C requirements FAR 91 Appendix D.* |  <br><br>Line - .025"<br>TYPE - 7 pt to 9 pt Helvetica 65 Medium (Caps & figs) | |
| SPECIAL ACTIVITY AREAS<br><br>Parachute Jumping Area<br><br>*Frequency Label: 7 pt Helvetica Condensed Bold*<br><br>Glider Operating Area<br><br>Ultralight Activity<br><br>Hang Glider Activity | <br> | NOT SHOWN |
| SPECIAL CONSERVATION AREAS<br><br>National Park, Wildlife Refuge, Primitive and Wilderness Areas, Etc. | <br><br>TYPE - 4.5 pt Copperplate Gothic 31 AB (Caps) | NOT SHOWN |

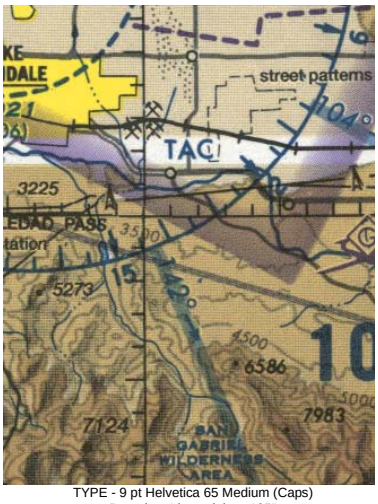
# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| AIRSPACE INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| SPECIAL AIRSPACE AREAS<br><br>*Appropriate notes as required may be shown*<br><br>SPECIAL FEDERAL AVIATION REGULATIONS (SFAR) AREAS<br><br>*Appropriate notes as required may be shown.* | <br>Lineweight - .030"<br>Square - .10"<br>Spacing - .25"<br>Screened - 60%/30°/120L<br><br>SPECIAL FEDERAL AVIATION REGULATIONS (SFAR)<br>14 CFR Part 93, Subpart U and SFAR 50,2 - GRAND CANYON NATIONAL PARK SPECIAL FLIGHT RULES AREA. Special regulations apply to all aircraft operations below 18,000 feet MSL.<br><br>TYPE - 7 pt to 20 pt Helvetica 65 Medium (Caps, l.c. and figs) | |
| SFAR AREA RELATING TO NATIONAL SECURITY<br><br>*Example: Washington, DC*<br><br>*Appropriate notes as required may be shown.* |  <br><br>WASHINGTON, DC METROPOLITAN AREA SPECIAL FLIGHT RULES AREA IN EFFECT (See SFAR 94 description in chart border).<br><br>TYPE - 7 pt Helvetica 65 Medium (Caps & figs) | NOT SHOWN |
| NATIONAL SECURITY AREA | <br>NOTICE<br>FOR REASONS OF NATIONAL SECURITY PILOTS ARE REQUESTED TO AVOID FLIGHT BELOW 1200' MSL IN THIS AREA<br><br>TYPE - 7 pt Helvetica 65 Medium (Caps & figs)<br>Lineweight - Screened .060" | NOT SHOWN |

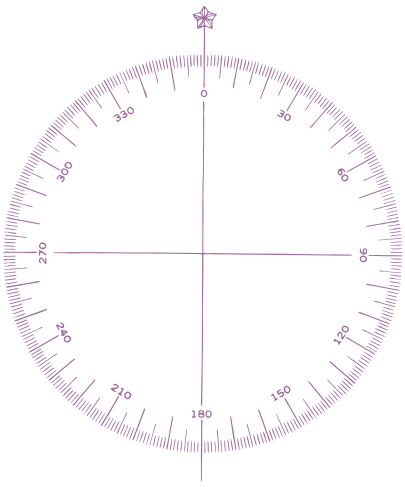
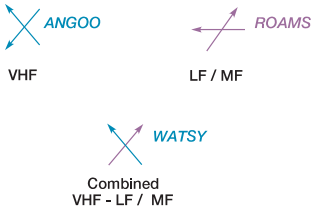
# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| AIRSPACE INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| TEMPORARY FLIGHT RESTRICTION (TFR) RELATING TO NATIONAL SECURITY<br><br>*Example: P-40 / R-4009*<br><br>*Appropriate notes as required may be shown.* | <br>CAUTION<br>P-40 AND R-4009 EXPANDED BY TEMPORARY FLIGHT RESTRICTION. CONTACT AFSS FOR LATEST STATUS AND NOTAMS<br><br>TYPE - 7 pt Helvetica 65 Medium (Caps & figs) | NOT SHOWN |
| HIGH ENERGY RADIATION AREAS/ PERMANENT LASER LIGHT DEMONSTRATIONS<br><br>*Appropriate notes as required may be shown.* |  <br>HAZARDOUS LASER TRANSMISSIONS SFC to infinity See Airport Facility/Directory<br><br>TYPE -7 pt to 11 pt Helvetica 65 Medium (Caps & figs)<br>Lineweight - .020"<br>Width of pattern - .15" |  <br>WAC<br><br>Type - 7 pt to 11 pt Helvetica 65 Medium (Caps & figs)<br>Lineweight - .020"<br>The inner portion of the symbol represents the limits |
| TERMINAL RADAR SERVICE AREA (TRSA)<br><br>*Appropriate notes as required may be shown.* | PALM SPRINGS TRSA<br><br> <br>TYPE - 9 pt Trade Gothic Bold<br>Line Screen - .060"<br><br>80 - Ceiling of TRSA in hundreds of feet MSL<br>40 - Floor of TRSA In hundreds of feet MSL<br><br>TYPE - 8 pt to 24 pt Helvetica Condensed Bold<br><br>SEE TWR FREQ TAB<br><br>TYPE - 7 pt to 9 pt Helvetica 65 Medium | NOT SHOWN |

# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| CHART LIMITS | TAC-SECTIONAL<br>1:250,000-1:500,000 | WAC<br>1:1,000,000 |
|---|---|---|
| OUTLINE OF TERMINAL AREA CHART ON THE SECTIONAL CHART |  <br><br>TYPE - 9 pt Helvetica 65 Medium (Caps)<br>Boundary Lineweight - .125"<br><br>LOS ANGELES TERMINAL AREA<br>Pilots are encouraged to use the Los Angeles VFR Terminal Area Chart for flights at or below 10,000'<br><br>TYPE - Terminal Area Name 7 pt to 9 pt Helvetica 65 Medium (Caps)<br>Text of note 7 pt to 9 pt Helvetica 65 Medium (Caps & l.c.)<br>Box Lineweight - .030" | NOT SHOWN |
| OUTLINE OF INSET CHART ON THE SECTIONAL CHART | <br><br>TYPE - 9 pt Helvetica 65 Medium (Caps)<br>Boundary Lineweight - .125"<br><br>If inset chart is on a different chart:<br><br>INDIANAPOLIS INSET<br>See inset chart on the St. Louis Sectional for additional information<br><br>If inset chart is on the same chart as outline:<br><br>INDIANAPOLIS INSET<br>See inset chart for additional detail<br><br>TYPE - Inset Chart Name 7 pt to 9 pt Helvetica 65 Medium (Caps)<br>Text of note 7 pt to 9 pt Helvetica 65 Medium (Caps & l.c.)<br>Box Lineweight - .030" | NOT SHOWN |

# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| NAVIGATIONAL AND PROCEDURAL INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| ISOGONIC LINE & VALUE<br><br>*Value will be placed in center of line and on each end, one dash from neatline. In addition, at least once in each fold.*<br><br>*Isogonic lines and values shall be based on the five year epoch magenetic variation model.* | <br>VALUE - 11 pt Helvetica 66 Medium Italic<br>Dashed Lineweight - .018" | <br>VALUE - 11 pt Helvetica 66 Medium Italic<br>Dashed Lineweight - .012" |
| LOCAL MAGNETIC NOTES<br><br>Unreliability Notes | Magnetic disturbance of as much as 78° exists at ground level and 10° or more at 3000 feet above ground level in this vicinity.<br><br>TYPE - 7 pt Helvetica 65 Medium | |
| COMPASS ROSETTE<br><br>*Shown only in areas void of VOR roses.*<br><br>*Compass Rosette will be based on five year epoch magnetic variation model.* |  | |
| INTERSECTIONS<br><br>*Named intersections used as reporting points.*<br><br>*Arrows are directed toward facilities which establish intersection.* |  <br>NAME - 6 pt Helvetica Bold Oblique (Caps) | NOT SHOWN |

PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| NAVIGATIONAL AND PROCEDURAL INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| AERONAUTICAL LIGHTS | Rotating or Oscillating<br>Located at Aerodrome<br> <br>In isolated location<br> <br>Rotating Light with Flashing Code Identification Light<br> <br>Rotating Light with Course Lights and Site Number<br> <br>TYPE - 7 pt Copperplate Gothic 31 AB<br>Flashing Light<br> <br>TYPE - 6 pt Helvetica 65 Medium | Rotating or Oscillating<br>Located at Aerodrome<br> <br>In isolated location<br> <br>Rotating Light with Flashing Code Identification Light<br> <br>Rotating Light with Course Lights and Site Number<br> <br>TYPE - 7 pt Copperplate Gothic 31 AB<br>Flashing Light<br> <br>TYPE - 6 pt Helvetica 65 Medium |

# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| NAVIGATIONAL AND PROCEDURAL INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| MARINE LIGHTS<br><br>Light Characteristics<br><br>R Red<br>*W White<br>G Green<br>B Blue<br>SEC Sector<br>F Fixed<br>Oc Single Occulting<br>Oc (2) Group Occulting<br>Oc (2+1) Composite Group Occulting<br>Iso Isophase<br>Fl Flashing<br>Fl (2) Group Flashing<br>Fl (2+1) Composite Group Flashing<br>Q Quick<br>IQ Interrupted Quick<br>Mo (A) Morse Code<br>FFl Fixed and Flashing<br>Al Alternating<br>Gp Group<br>LFl Long Flash<br>Q (3) Group Quick Flashing<br>IQ Interrupted Quick Flashing<br>VQ Very Quick Flashing<br>VQ (3) Group Very Quick Flashing<br>IVQ Interrupted Very Quick Flashing<br>UQ Ultra Quick Flashing<br>IUQ Interrupted Ultra Quick Flashing<br><br>*Marine Lights are white unless otherwise noted. Alternating lights are red and white unless otherwise noted. | Oc<br>R SEC<br><br>TYPE - 6 pt Helvetica 65 Medium | |
| VISUAL GROUND SIGNS<br><br>Shore and Landmarkers | A33<br>Arrow points to location of marker<br><br>M<br>Actual location of ground sign<br>TYPE - 8 pt Futura Book (Caps & figs) | |
| VFR CHECKPOINTS | Pictorial STATE CAPITOL<br><br>SIGNAL HILL<br><br>NORTHBROOK<br>113.0 Ch 77 OBK<br><br>R LEWIS (Pvt)<br>989 - 27<br><br>TYPE - 6.5 pt Trade Gothic Bold (Caps)<br>UNDERLINE - .010" | NOT SHOWN |
| VFR WAYPOINTS<br><br>Stand-alone<br><br>Collocated with VFR Checkpoint | VPXYZ<br><br>NAME<br>(VPXYZ)<br><br>TYPE- 6.5 Helvetica Bold Oblique (Caps) | NOT SHOWN |

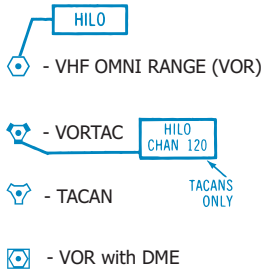
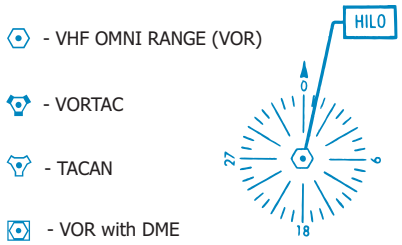
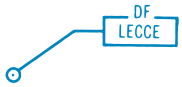
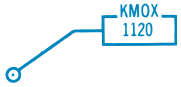
# PART 2: AERONAUTICAL INFORMATION - CIVIL FORMAT

| NAVIGATIONAL AND PROCEDURAL INFORMATION | TAC-SECTIONAL 1:250,000-1:500,000 | WAC 1:1,000,000 |
|---|---|---|
| OBSTRUCTION | 1473 (394) bldg — Less than 1000' (AGL)<br>628 UC — Under Construction or reported and position / elevation unverified<br>3368 (1529) — 1000' & higher (AGL)<br>DESCRIPTIVE TYPE - 6 pt Helvetica 65 Medium<br>MSL ELEVATION - 6.5 pt Copperplate 31 AB Italic<br>AGL ELEVATION - 7 pt Helvetica 65 Medium<br>UC - 6 pt Helvetica 65 Medium | 1158 (253) stack — Less than 1000' (AGL)<br>507 UC — Under Construction or reported and position / elevation unverified<br>2967 (1697) — 1000' & higher (AGL)<br>DESCRIPTIVE TYPE - 6 pt Helvetica 65 Medium<br>MSL ELEVATION - 6 pt Copperplate 31 AB Italic<br>AGL ELEVATION - 6 pt Helvetica 65 Medium<br>UC - 6 pt Helvetica 65 Medium |
| GROUP OBSTRUCTION | 1062 (227) — Less than 1000' (AGL)<br>4977 (1432) — 1000' and higher (AGL)<br>2889 (1217) — At least two in group over 1000' (AGL) | 524 (367) — Less than 1000' (AGL)<br>3483 (1634) — 1000' and higher (AGL)<br>4892 (1573) — At least two in group over 1000' (AGL) |
| HIGH INTENSITY OBSTRUCTION LIGHTS<br>*High intensity lights may operate part-time.* | Less than 1000' (AGL) — 1000' and higher (AGL)<br>Group Obstruction | Less than 1000' (AGL) — 1000' and higher (AGL)<br>Group Obstruction |
| MAXIMUM ELEVATION FIGURE (MEF) | 135 — 1000' digits 24 pt Helvetica Condensed Bold<br>100' digits 18 pt Helvetica Condensed Bold | |
| WARNING, CAUTION NOTES<br>*Used when specifc area is not demarcated.* | WARNING<br>Extensive fleet and air operations being conducted in offshore areas to approximately 100 miles seaward.<br>CAUTION: Be prepared for loss of horizontal reference at low altitude over lake during hazy conditions and at night.<br>TYPE - 5 pt to 7 pt Helvetica 65 Medium<br>Box Lineweight - .006" to .030" | |

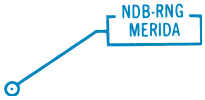
# PART 3: AERONAUTICAL INFORMATION - MILITARY FORMAT

| AIRPORTS | TPC 1:500,000 | ONC 1:1,000,000 |
|---|---|---|
| LANDPLANE- MILITARY<br>*Refueling and repair facilities for normal traffic.*<br>*Name and statistical data* | 1. Major airports..... SMITH AFB 700<br>2. Major airports, Runway pattern not available EDNA/42 312<br>3. Minor airports..... DEXHEIM/30 190<br>1. Diam. of circle .20"<br>2. Diam. of circle .20"<br>3. Outer diam. of circle .140" Lineweight .020"<br>Runway width .016"<br>When runway pattern extends beyond the circle, the runways will be outlined with a .016" lineweight.<br>NAME - 8 pt News Gothic Condensed (Caps)<br>LENGTH OF RUNWAY - 8 pt News Gothic Condensed<br>ELEVATION - 7 pt Alternate Gothic No. 3 | 1. Major airports..... SMITH AFB 900<br>2. Major airports, Runway pattern not available EDNA/30 742<br>3. Minor airports..... DEXHEIM/30 320<br>1. Diam. of circle .144" Lineweight .008"<br>2. Diam. of circle .144" Lineweight .022"<br>3. Diam. of circle .09" Lineweight .018"<br>Multiple Runways .014" lineweight<br>Single Runway .017" lineweight<br>NAME - 6 pt Techno Medium<br>LENGTH OF RUNWAY -6 pt Techno Medium<br>ELEVATION - 6 pt Techno Medium Italic |
| LANDPLANE-CIVIL<br>*Refueling and repair facilities for normal traffic.*<br>*Name and statistical data* | 1. Major airports..... SMITH AFB 700<br>2. Major airports, Runway pattern not available EDNA/42 312<br>3. Minor airports..... DEXHEIM/30 190<br>1. Diam. of circle .20"<br>2. Diam. of circle .20"<br>3. Outer diam. of circle .140" Lineweight .020"<br>Runway width .016"<br>When runway pattern extends beyond the circle, the runways will be outlined with a .016" lineweight.<br>NAME - 8 pt News Gothic Condensed (Caps)<br>LENGTH OF RUNWAY - 8 pt News Gothic Condensed (Caps)<br>ELEVATION - 7 pt Alternate Gothic No. 3 | 1. Major airports..... SMITH AFB 900<br>2. Major airports, Runway pattern not available EDNA/30 742<br>3. Minor airports..... DEXHEIM/30 320<br>1. Diam. of circle .144" Lineweight .008"<br>2. Diam. of circle .144" Lineweight .022"<br>3. Diam. of circle .09" Lineweight .018"<br>Multiple Runways .014" lineweight<br>Single Runway .017" lineweight<br>NAME - 6 pt Techno Medium<br>LENGTH OF RUNWAY -6 pt Techno Medium<br>ELEVATION - 6 pt Techno Medium Italic |
| LANDPLANE - JOINT CIVIL AND MILITARY<br>*Refueling And Repair Facilities For Normal Traffic.* | 1. Major airports..... SMITH AFB 700<br>2. Major airports, Runway pattern not available EDNA/42 312<br>3. Minor airports..... DEXHEIM/30 190<br>1. Diam. of circle .20"<br>2. Diam. of circle .20"<br>3. Outer diam. of circle .140" Lineweight .020"<br>Runway width .016"<br>When runway pattern extends beyond the circle, the runways will be outlined with a .016" lineweight.<br>NAME - 8 pt News Gothic Condensed<br>LENGTH OF RUNWAY - 8 pt News Gothic Condensed<br>ELEVATION - 7 pt Alternate Gothic No. 3 | 1. Major airports..... SMITH AFB 900<br>2. Major airports, Runway pattern not available EDNA/30 742<br>3. Minor airports..... DEXHEIM/30 320<br>1. Diam. of circle .144" Lineweight .008"<br>2. Diam. of circle .144" Lineweight .022"<br>3. Diam. of circle .09" Lineweight .018"<br>Multiple Runways .014" lineweight<br>Single Runway .017" lineweight<br>NAME - 6 pt Techno Medium<br>LENGTH OF RUNWAY -6 pt Techno Medium<br>ELEVATION - 6 pt Techno Medium Italic |
| LANDPLANE - EMERGENCY<br>*No facilities or complete information is not available.*<br>*Add appropriate notes as required: abandoned, closed, approximate position, existence uncomfirmed.* | 1. Major airports..... ABANDONED SMITH AFB 700<br>2. Major airports, Runway pattern not available ABANDONED EDNA/42 312<br>3. Minor airports..... ABANDONED DEXHEIM/30 190<br>1. Diam. of circle .20"<br>2. Diam. of circle .20"<br>3. Outer diam. of circle .140" Lineweight .020"<br>Runway width .016"<br>When runway pattern extends beyond the circle, the runways will be outlined with a .016" lineweight.<br>NAME - 8 pt News Gothic Condensed (Caps)<br>LENGTH OF RUNWAY - 8 pt News Gothic Condensed<br>ELEVATION - 7 pt Alternate Gothic No. 3<br>NOTE - 7 pt News Gothic Condensed | 1. Major airports..... ABANDONED SMITH AFB 900<br>2. Major airports, Runway pattern not available ABANDONED EDNA/30 742<br>3. Minor airports..... ABANDONED DEXHEIM/30 320<br>1. Diam. of circle .144" Lineweight .008"<br>2. Diam. of circle .144" Lineweight .022"<br>3. Diam. of circle .09" Lineweight .018"<br>Multiple Runways .014" lineweight<br>Single Runway .017" lineweight<br>NAME - 6 pt Techno Medium<br>LENGTH OF RUNWAY -6 pt Techno Medium<br>ELEVATION - 6 pt Techno Medium Italic<br>Note - 5pt Techno Medium |

# PART 3: AERONAUTICAL INFORMATION - MILITARY FORMAT

| RADIO AIDS TO NAVIGATION | TPC<br>1:500,000 | ONC<br>1:1,000,000 |
|---|---|---|
| OMNI-RANGE<br>“VOR”<br>“VORTAC”<br>“TACAN” |  <br>Use appropriate symbol with leader line to boxed name facility.<br>Box and leader line .012” lineweight<br>LABEL: 7 pt News Gothic Condensed (Caps) |  <br>Use appropriate symbol with leader line to boxed name facility.<br>Box and leader line .012” lineweight<br>LABEL: 7 pt News Gothic Condensed (Caps)<br>Compass Rose Symbol 1-24, RM-859 |
| RADIO RANGE LF/MF | <br>Circle: .012” lineweight, .080” outer diameter<br>Dot: .012” diameter<br>Box and leader line .012” lineweight<br>LABEL: 7 pt News Gothic Condensed (caps) | SAME |
| DIRECTION FINDERS<br>(DF) |  | SAME |
| RADIO BEACON<br>(NDB OR R BN) | | SAME |
| CONSOLAN | | SAME |
| MARINE RADIO BEACON<br>(MNDB or MR Bn) | | NOT SHOWN |
| BROADCAST STATIONS<br>(BS) |  | SAME |

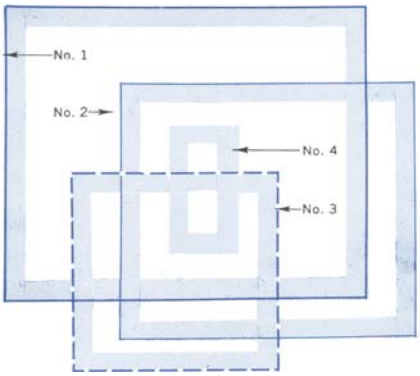
## PART 3: AERONAUTICAL INFORMATION - MILITARY FORMAT

| RADIO AIDS TO NAVIGATION | TPC 1:500,000 | ONC 1:1,000,000 |
|---|---|---|
| OCEAN STATION VESSEL | NOT SHOWN | |
| MULTIPLE RADIO FACILITIES |  | SAME |

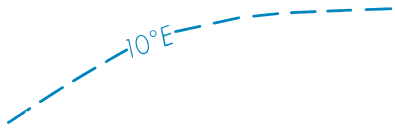
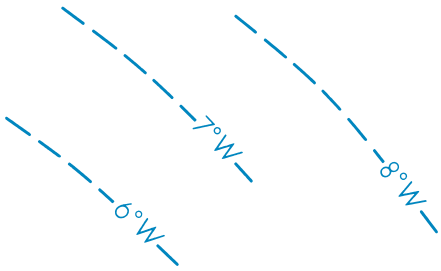
## PART 3: AERONAUTICAL INFORMATION - MILITARY FORMAT

| AIRSPACE INFORMATION | TPC 1:500,000 | ONC 1:1,000,000 |
|---|---|---|
| AIR DEFENSE IDENTIFICATION ZONE (ADIZ) | <br>Lineweight .01”<br>Width of band .10”<br>AP-98 screen<br>Type varies from 10 to 36 pt Formal Gothic Demi-Bold (Caps)<br><br>Note: Delimiting line not shown when it coincides with International Boundary, projection lines or other linear features. | SAME |
| BUFFER ZONES | <br>Lineweight .01”<br>Width of band .10”<br>AP-98 screen, in segments 1” long with .5” space between segments<br>Type varies from 6 pt to 12 pt Century Schoolbook (Caps) | SAME |
| PROHIBITED AREA<br>*Flight of aircraft prohibited*<br>*Label appropriately* | <br>Number indicates internationally recognized numerical identification.<br><br>Lineweight .01”<br>Width of band .10”<br>31%-120D-15° screen<br>Type varies from 6 pt to 30 pt Formal Gothic Demi-Bold (Caps)<br>Type varies with size of area | SAME |
| DANGER, RESTRICTED OR WARNING AREA<br>*Invisible hazards to air navigation.*<br>*Label appropriately* | | SAME |

# PART 3: AERONAUTICAL INFORMATION - MILITARY FORMAT

| AIRSPACE INFORMATION | TPC 1:500,000 | ONC 1:1,000,000 |
|---|---|---|
| ALERT OR CAUTION AREA<br>*Visible hazards to air navigation.*<br>*Label appropriately* | | SAME |
| OVERLAPPING AIRSPACES |  <br>No. 1 The lineweight of the entire Special Use Airspace outline is a solid .01" line with a .10" wide screen band*.<br><br>No. 2 When a second Special Use Airspace overlaps another, the lineweight of its entire outline is reduced to a solid .006" line with a .10" wide screenband.<br><br>No. 3 When three Special Use Airspaces overlap the same common area, the entire outline of the third Special Use Airspace is dashed (.01" lineweight, .10" dash, .02" space) with a .10" wide screen band*.<br><br>No. 4 When four Special Use Airspaces overlap the same common area, the entire limits of the fourth Special Use Airspace are bounded by only a .10" wide screen band*.<br><br>* 31% - 120D-15° screen | SAME |
| WARNING NOTES<br>*Used when specific area is not demarcated*<br>*(supply city name or area location)* | **WARNING**<br>**Aircraft infringing upon Non-Free Flying Territory may be fired on without warning. Consult NOTAMS and Flight Information Publications for the latest air information.**<br><br>WARNING - 8 pt to 24 pt Alternate Gothic No. 3 (Caps)<br>Body of Note - 8 pt to 24 pt Alternate Gothic No. 3 (Caps & Lc)<br>Selection of type size is dependent upon area (available space).<br>Box Lineweight - .01" | SAME |
| POWER TRANSMISSION LINES<br>Catenaries | <br>.012 line | <br>.010" line, .04" dash, .02" space, .03" dot |
| | <br>.030" line | NOT SHOWN |
| SPECIAL CONSERVATION AREA | <br>5 to 12 pt Alternate Gothic #3 (Caps) | NOT SHOWN |

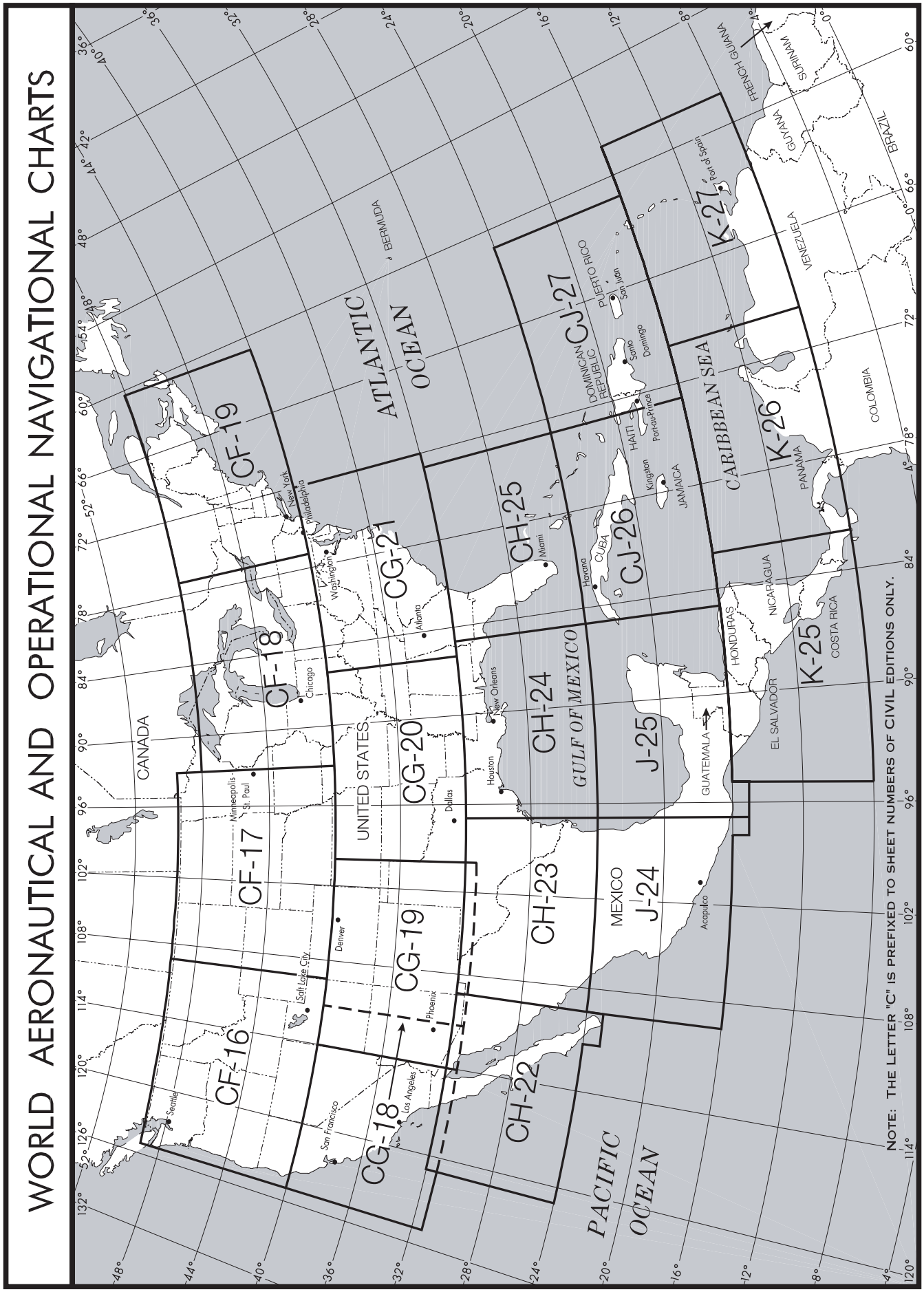
# PART 3: AERONAUTICAL INFORMATION - MILITARY FORMAT

| NAVIGATIONAL AND PROCEDURAL INFORMATION | TPC 1:500,000 | ONC 1:1,000,000 |
|---|---|---|
| ISOGONIC LINE & VALUE<br><br>*Values will be placed on each end, one dash from neatline, and at approximately 4" to 6" intervals along the line for lines that exceed 12".* |  <br>.012" line .15" dash, .05" interval<br>12 pt Techno Bold italic | SAME |
| ISOGONIC LINE CUT BACK |  <br>Cut back is the limited extension of an isogonic line from an overlapping chart. This is done in cases where the isogonic sequence has been changed due to the number of isogonic lines present in the area covered by the chart<br>. | SAME |
| MAGNETIC UNRELIABILITY NOTE FOR NORTH POLAR AREA. | *MAGNETIC NOTE*<br>*Because of weak directive force and magnetic storms, the compass becomes increasingly unreliable approaching the magnetic pole from a distance of approximately 1000 MILES.*<br><br>SHOW ON ALL CHARTS FALLING WITHIN 1000 MILE RADIUS OF NORTH POLE<br>MAGNETIC NOTE - 8 pt Techno Bold Italic (Caps)<br>Body of Note - 8 pt Techno Bold Italic (Caps & l.c.)<br>Box Lineweight - .01" | |
| LOCAL MAGNETIC NOTES | Magnetic disturbance of as much as 78° exists at ground level and 10° or more at 3000 feet above level in this vicinity.<br><br>TYPE - 8 pt News Gothic Condensed (Caps & l.c.)<br>Box lineweight - .006" | *CAUTION*<br>*Compass deviations of 10° to 15° reported to exist in this area*<br><br>*CAUTION*<br>*Variations of 8°W to 13°W reported to exist in this area*<br><br>CAUTION - 10 pt Techno Bold Italic (Caps)<br>Body of Note - 10 pt Techno Bold Italic (Caps & l.c.) |
| ISOGONIC DATA NOTES<br><br>*When the annual magnetic change is more than 12' algebraically, a note is added to the four quadrants of the chart.* | LINES OF EQUAL MAGNETIC VARIATION FOR 1975<br>Annual rate of change – no change<br><br>8 pt Techno Bold (Caps)<br>7 pt Techno Bold (Caps & l.c.) | SAME |

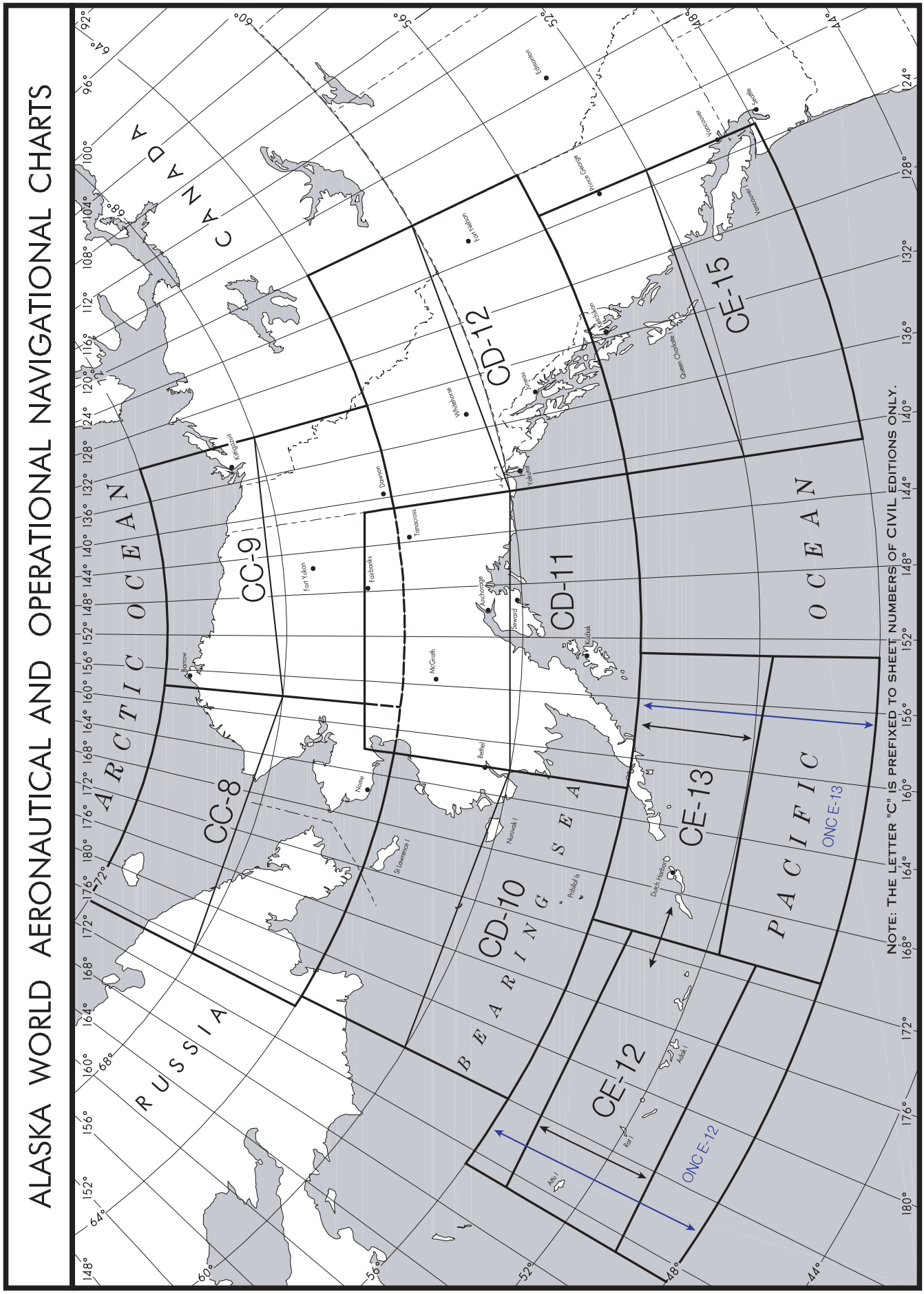
# PART 3: AERONAUTICAL INFORMATION - MILITARY FORMAT

| NAVIGATIONAL AND PROCEDURAL INFORMATION | TPC 1:500,000 | ONC 1:1,000,000 |
|---|---|---|
| AERONAUTICAL LIGHTS<br><br>Rotating or Oscillating | If located on aerodrome or within 1 mile of limits<br>Symbol 1-20 RM-859<br><br>In isolated location<br>Symbol 1-19 RM-859 | If located on aerodrome or within 1 mile of limits<br>Symbol 1-20 RM-859<br><br>In isolated location<br>Symbol 1-19 RM-859 |
| Flashing Light | Fl<br>If located on aerodrome or within 1 mile of limits<br>Fl<br>7 pt Techno Medium | Fl<br>If located on aerodrome or within 1 mile of limits<br>Fl<br>7 pt Techno Medium |
| VISUAL GROUND SIGNS<br><br>Shore and landmarkers | A33<br>Arrow points to location of marker<br>9 pt Techno Medium<br><br>M<br>Actual location of ground sign<br>9 pt Techno Medium | SAME |
| OBSTRUCTIONS | 961<br>(230)<br>1476<br>(686)<br><br>MSL ELEVATION- 7 pt Techno Medium Italic<br>AGL ELEVATION- 7 pt Techno Medium<br>Type sizes shall be increased to 8 pt (Techno Medium Italic and Techno Medium) for the highest obstruction within each area bounded by ticked lines of the graticule. | SAME |
| GROUP OBSTRUCTION | 961<br>(230)<br>1476<br>(686) | SAME |
| MAXIMUM ELEVATION FIGURES | 125<br><br>100' Maximum Elevation Figures - 18 pt Alternate Gothic No. 3<br>1000' Maximum Elevation Figures - 30 pt Alternate Gothic No. 3 | SAME |

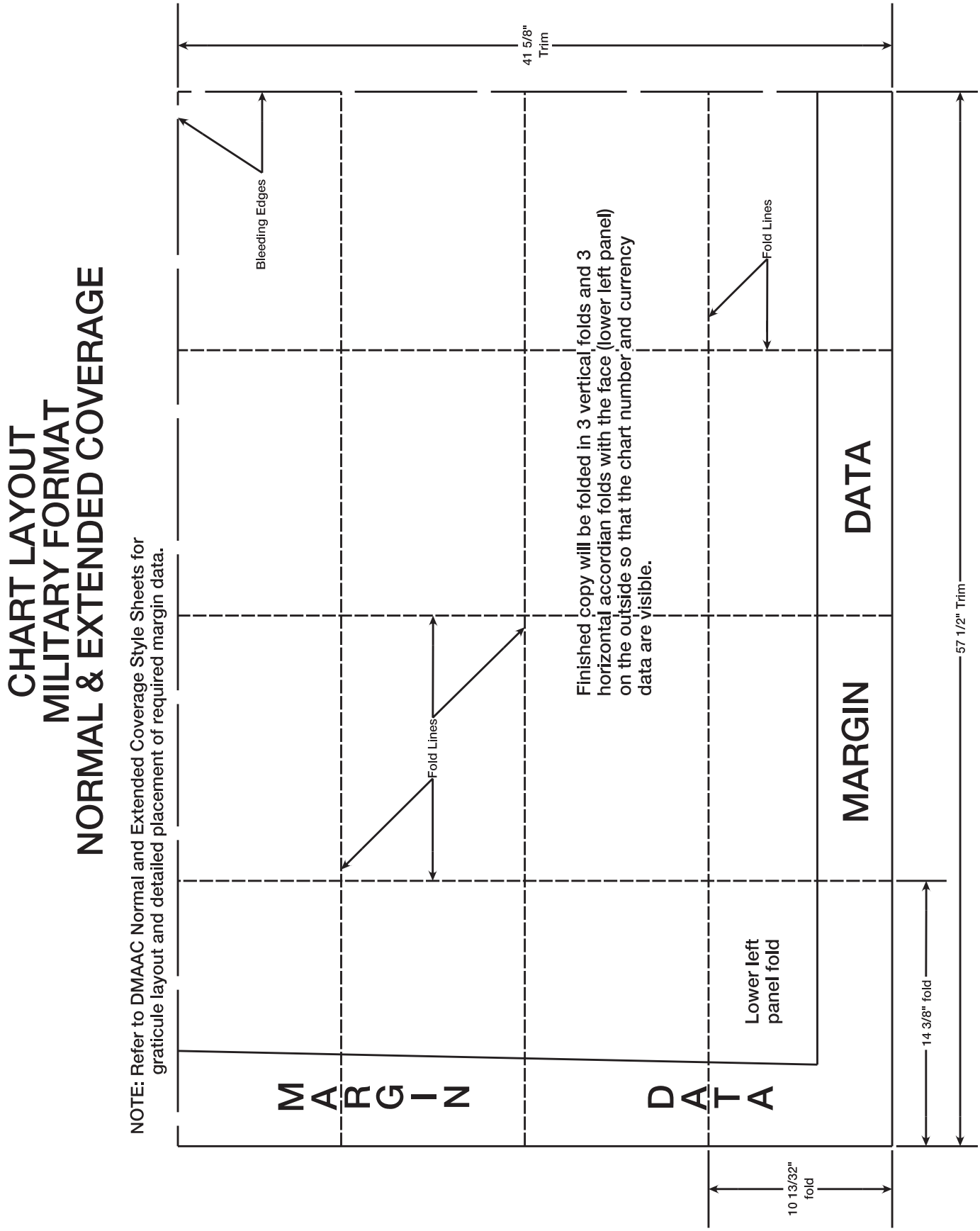
## APPENDIX 2 CHART INDEX, UNITED STATES



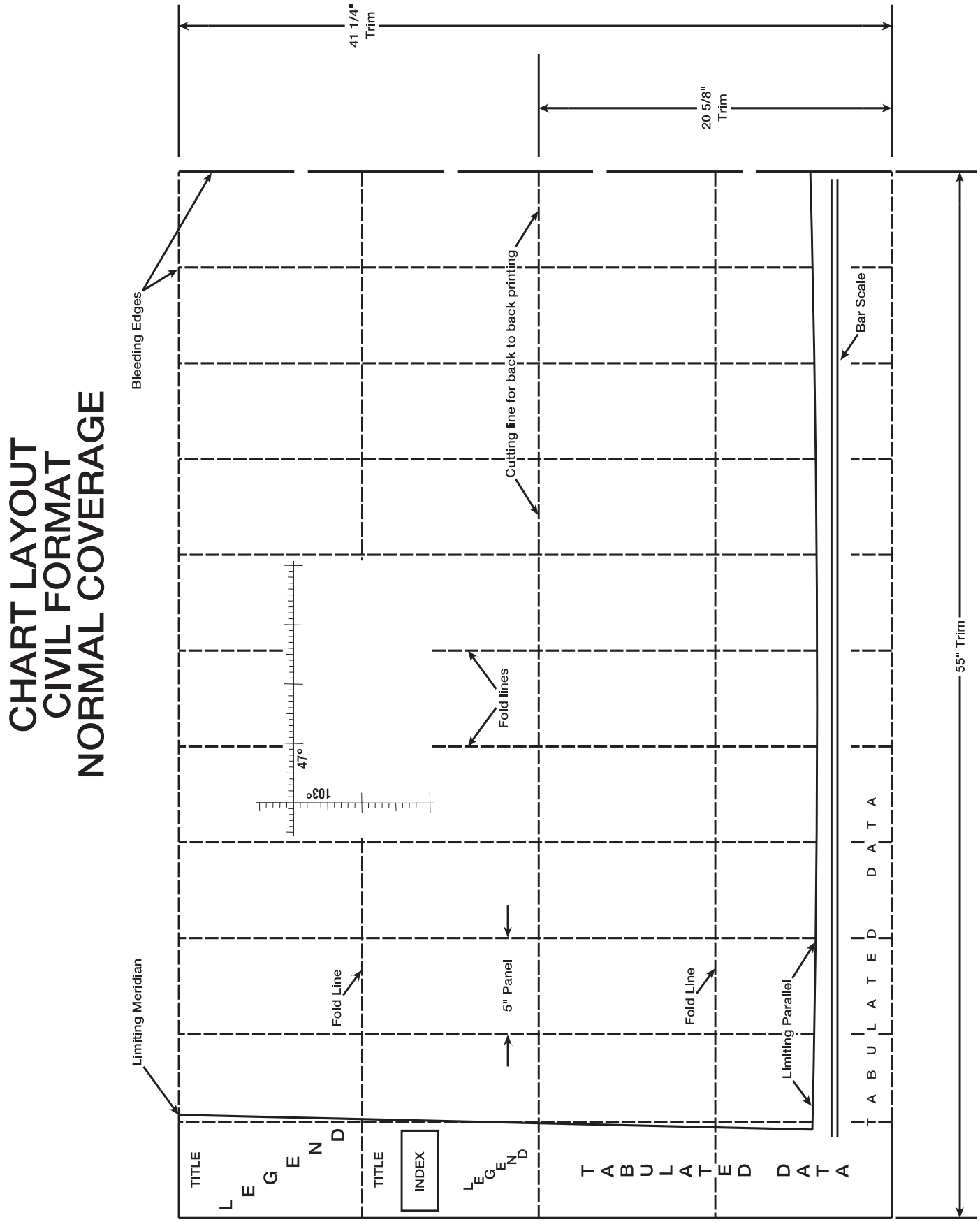
# APPENDIX 3 CHART INDEX, ALASKA



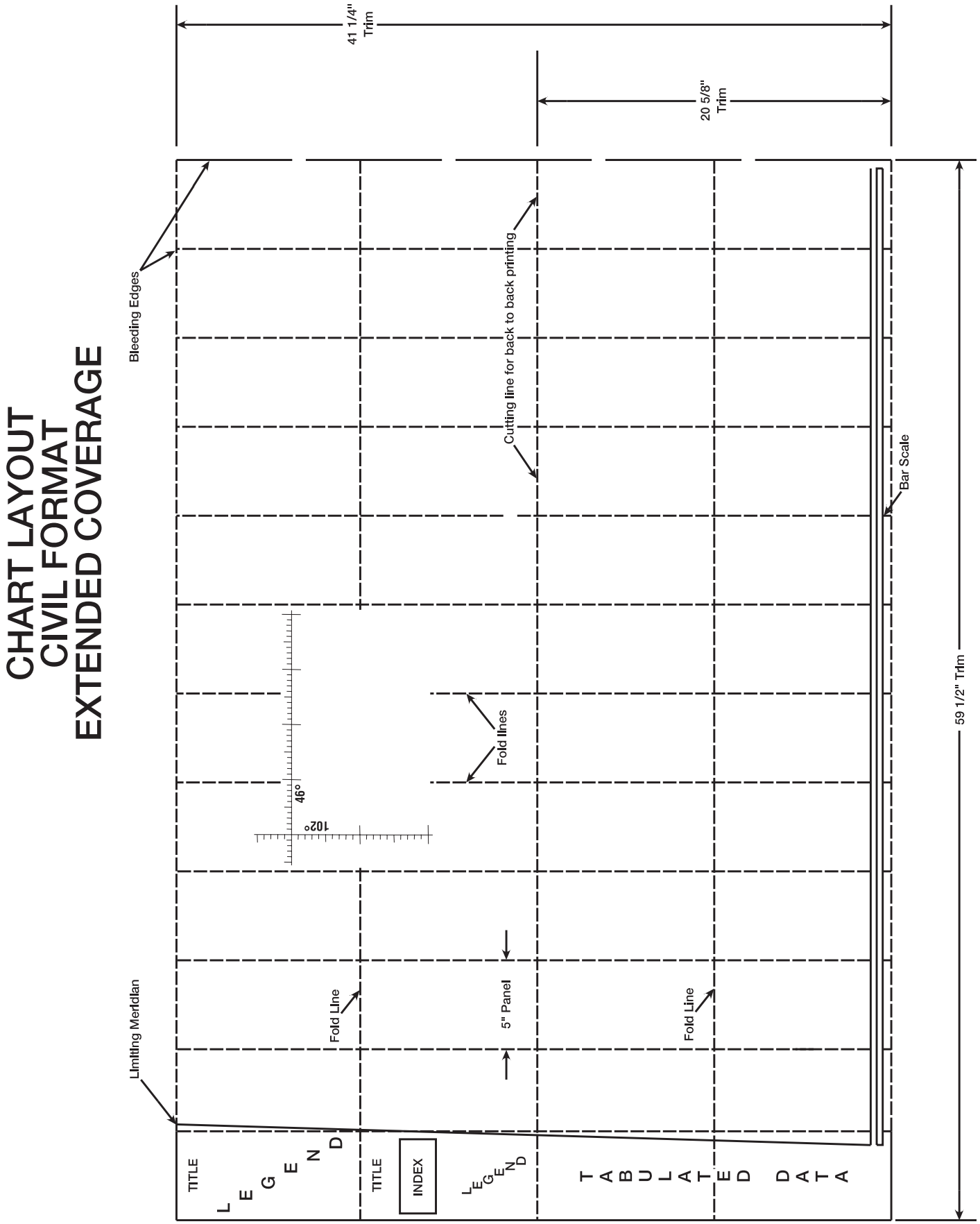
# APPENDIX 4 STYLE SHEET - MILITARY FORMAT, NORMAL & EXTENDED COVERAGE



## APPENDIX 5 STYLE SHEET - CIVIL FORMAT, NORMAL COVERAGE



## APPENDIX 6 STYLE SHEET - CIVIL FORMAT, EXTENDED COVERAGE



# APPENDIX 7 SPECIAL USE AIRSPACE TAB

## SPECIAL USE AIRSPACE ON ANY VISUAL CHART

Unless otherwise noted altitudes are MSL and in feet. Time is local.
NO A/G - No air to ground communications.
Contact nearest FSS for information.
"TO" an altitude means "To and including."

FL - Flight Level.
† - Other times by NOTAM.
Use of the term NOTAM in Restricted Areas indicates FAA and DoD NOTAM Systems. Use of this term in all other Special Use areas indicates the DoD NOTAM system.

### U.S. P-PROHIBITED, R-RESTRICTED, A-ALERT, W-WARNING, MOA-MILITARY OPERATIONS AREA

| NUMBER | ALTITUDE | TIME OF USE | CONTROLLING AGENCY/ CONTACT FACILITY | FREQUENCIES |
|---|---|---|---|---|
| R-2102 B | TO BUT NOT INCL 10,000 | 0700-1800 MON-FRI† | ANCHORAGE CNTR<br>TOLEDO ATCT | 127.9 284.625<br>126.1 307.01 |
| R-2202 C | 10,000 TO FL 310 | INTERMITTENT BY NOTAM | ANCHORAGE CNTR | |
| R-2205 | TO 20,000 | 0700-1900 MON-FRI† | FAIRBANKS APP CON | 126.5 |
| R-2206 | TO 8800 | CONTINUOUS | NO A/G | |
| R-2211 | TO 18,000 | 0800-1800 MON-FRI O/T BY NOTAM FROM THE USING AGENCY | FAIRBANKS APP CON | |
| R-2501 S | UNLIMITED | CONTINUOUS | LOS ANGELES CNTR | 133.65 120.25 |
| R-2505 | UNLIMITED | CONTINUOUS | LOS ANGELES CNTR | |

| MOA NAME | ALTITUDE* | TIME OF USE † | CONTROLLING AGENCY/ CONTACT FACILITY | FREQUENCIES |
|---|---|---|---|---|
| BIRCH | 500 AGL TO 5000 | 0800-1800 MON-FRI | ANCHORAGE CNTR | 124.2 270.3 |
| DEVILS LAKE EAST, WEST | 100 AGL | 0800-1800 MON-FRI | ANCHORAGE CNTR | |
| REVEILLE NORTH, SOUTH | 500 AGL TO 10,000 | INTERMITTENT 0700-2200 MON-FRI | FAIRBANKS ATCT | 127.9 284.625<br>126.1 307.01 |
| CHEYENNE HIGH, LOW | 10,000 | INTERMITTENT 0700-2200 MON-FRI | ANCHORAGE CNTR | 132.5 379.15 (W)<br>133.4 387.15 (E) |
| YUKON 1 | 100 AGL | 0800-1800 MON-FRI | ANCHORAGE CNTR | |
| YUKON 2 | 100 AGL | 0800-1800 MON-FRI | ANCHORAGE CNTR | |

*Altitudes indicate floor of MOA. All MOAs extend to but do not include FL 180 unless otherwise indicated in tabulation or on chart.
† - Other times by DoD NOTAM.