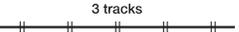
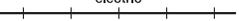
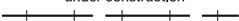
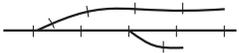
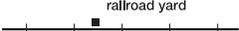
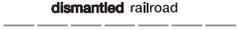
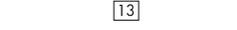


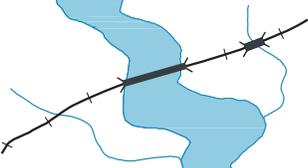
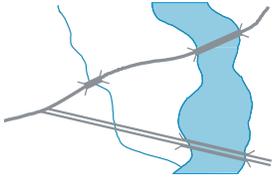
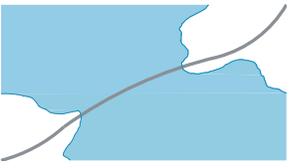
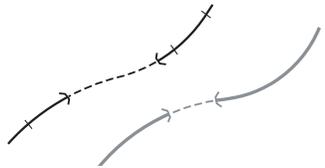
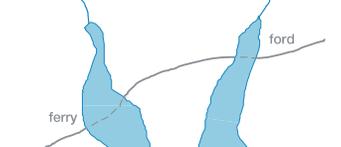
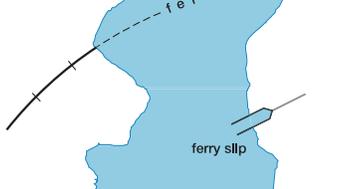
**APPENDIX 1
TOPOGRAPHICAL INFORMATION - CULTURE**

RAILROADS			
Single Track			
Lineweight		.012"	
Crossties			
Lineweight		.006"	
Length		.060"	
Interval between crossties		.250"	
Through Cities			
Lineweight		.008" without crossties	
Double Track			
Lineweight		.012"	
Crossties			
Lineweight		.006"	
Length		.060"	
Spacing between crossties		.020"	
Interval between dual crossties		.250"	
Through Cities			
Lineweight		.008" without crossties	
Multiple Tracks			
Text	L/C	5.5 pt Helvetica 65 Medium	
Electric			
Text	L/C	5.5 pt Helvetica 65 Medium	
Nonoperating, Abandoned, or Under Construction			
Space between Segments		.060"	
Text	L/C	5.5 pt Helvetica 65 Medium	
Railroad Sidings and Short Spurs			
Railroad Yards			
Text	L/C	5.5 pt Helvetica 65 Medium	
Location Only			
Text	L/C	5.5 pt Helvetica 65 Medium	
Symbol		.040" square	
Railroad Stations			
Text	L/C	5.5 pt Helvetica 65 Medium	
Symbol - known location		.040" square	
Symbol - unknown location		.040" x .080" rectangle centered on track	

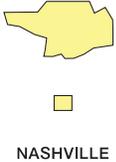
**APPENDIX 1
TOPOGRAPHICAL INFORMATION - CULTURE (CONTINUED)**

ROADS			
Category 1			
Dual Lane Divided Highways			
Lineweight		.012"	
Spacing between lines		.012"	
Overall		.036"	
Category 2			
Other Roads			
Primary Roads			
Lineweight		.018"	
Secondary Roads			
Lineweight		.010"	
Category 3			
Tracks and Trails			
Lineweight		.010"	
Dash length		.160"	
Spacing between Dashes		.015"	
<i>Provides symbolization for dismantled railroad when combined with label "dismantled railroad".</i>			
Text	L/C	5.5 pt Helvetica 65 Medium	
Roads Under Construction			
Text	L/C	5.5 pt Helvetica 65 Medium	
Lineweight		Per category of Road	
Spacing Between Lines		.012"	
Dash length		.130"	
Spacing between Dashes		.020"	
Road Markers			
Interstate Route Number			
Text		5 pt Helvetica 65 Medium	
U.S. Route Number			
Text		6 pt Trade Gothic Condensed	
Air Marked Identification			
Text		6 pt Futura Medium	
Road Names			
Text	CAPS	4.5 pt Helvetica 65 Medium	

**APPENDIX 1
TOPOGRAPHICAL INFORMATION - CULTURE (CONTINUED)**

RELATED FEATURES TO RAILROADS AND ROADS			
Bridges and Viaducts Railroad			
Road			
Overpasses and Underpasses Spacing		.020" on each side	
Causeways		Appropriate road or railroad symbol	
Tunnels Road and Railroad Lineweight Dash Length Spacing <i>* Omit dashes when symbol is less than .100" in length.</i>		.010" .040" .020"	
Ferries, Ferry Slips and Fords Text	L/C	5.5 pt Helvetica 65 Medium	
Ferries Lineweight Dash Length Spacing		.006" .040" .020"	
Ferry Slips Lineweight		.008"	
Fords Lineweight		.008"	

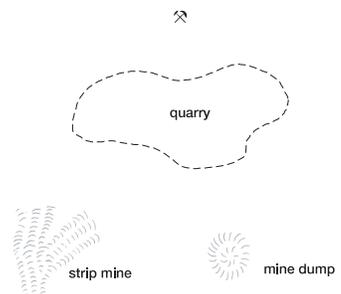
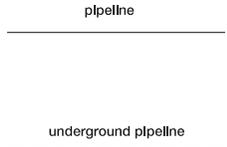
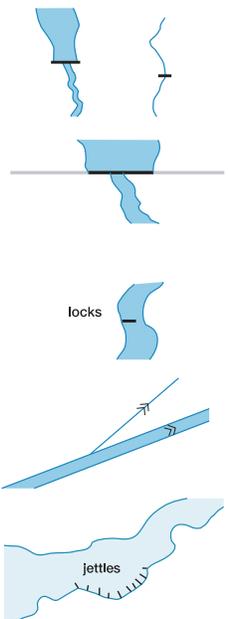
**APPENDIX 1
TOPOGRAPHICAL INFORMATION - CULTURE (CONTINUED)**

POPULATED PLACES			
Large Cities - Category 1 Lineweight Tint (Fill Color) Text	CAPS	.006" Yellow 9 pt New Century Schoolbook Roman	
Cities and Large Towns - Category 2 Lineweight Square Tint (Fill Color) Text	CAPS	.006" .060" Yellow 6.5 pt Helvetica 65 Medium	
Towns and Villages - Category 3 Lineweight Circle Tint (Fill Color) Text	C/L	.006" .050" diameter None 6.5 pt Helvetica 65 Medium	

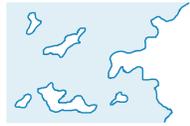
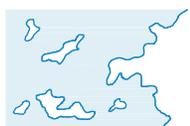
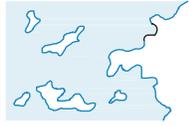
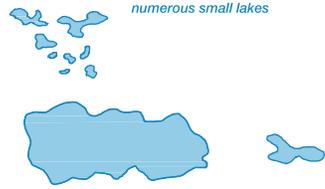
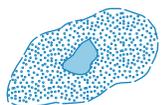
**APPENDIX 1
TOPOGRAPHICAL INFORMATION - CULTURE (CONTINUED)**

BOUNDARIES			
<i>Interval between dashes may be increased where symbol coincides with other linear symbols.</i>			
International Boundaries			
Lineweight		.012"	
Long Dash		.300"	
Short Dash		.100"	
Spacing		.050"	
Overprint Width		.040"	
Text (Centered over area)	CAPS	8 to 18 pt New Century Schoolbook Bold	MEXICO
State and Provincial Boundaries			
Lineweight		.015"	
Long Dash		.300"	
Short Dash		.100"	
Spacing		.050"	
Text (along boundaries)	CAPS	5.5 to 7 pt Helvetica 65 Medium	ARIZONA
US/Russia Maritime Boundary			
Lineweight		.020"	
Dash		.200"	
Space		.060"	
Cross tick		.120"	
Text	CAPS	5.5 to 7 pt Helvetica 65 Medium	RUSSIA UNITED STATES
International Date Line			
Lineweight		.020"	
Dash		.250"	
Space		.150"	
"Date Line" Placement	CAPS	on East Side of line one (1) day earlier	INTERNATIONAL (Monday)
Text	CAPS	8 pt New Century Schoolbook Bold	DATE LINE (Sunday)
Text - day	C/L	8 pt New Century Schoolbook Bold	
Time Zones			
Dots		.015"	
Space		.015"	
Text	CAPS & Figs	6 pt Helvetica 65 Medium	PST (+7DT) = UTC MST (+6DT) = UTC
Country and Sovereignty			
Designation			SEYCHELLES ISLANDS
Text	CAPS	5.5 to 36 pt Helvetica 65 Medium	
<i>Islands, Island Groups, Archipelagos, Peninsulas, Points and Capes</i>	or C/L		
<i>Under Island Names (Denoting Possessions)</i>	CAPS	5.5 to 24 pt Helvetica 65 Medium	SAINT CROIX (UNITED STATES)

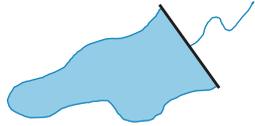
**APPENDIX 1
TOPOGRAPHICAL INFORMATION - CULTURE (CONTINUED)**

MISCELLANEOUS CULTURAL FEATURES			
Pictorial Symbols Text Located Object Symbols <i>church, monument, aerial cableway, athletic field, outdoor theater, school, shrine, silo, fort, cemetery</i> Object Symbol Text	C/L L/C	5.5 pt Helvetica 65 Medium .040" square 5.5 pt Helvetica 65 Medium	 State Capitol ■ fort ■ cemetery
Mining Features Symbol Quarries to Scale Lineweight Dash Space Text Strip Mines, Mine Dumps and Tailings (to scale) Text	L/C L/C	.008" .040" .020" 5.5 pt Helvetica 65 Medium 5.5 pt Helvetica 65 Medium	
Power Transmission and Telecommunication Lines Lineweight Text	CAPS CAPS	.008" 9 pt Helvetica 65 Medium	 CAUTION
Pipelines Above Ground Lineweight Text Underground Lineweight Dash Space Text	L/C L/C	.006" 5.5 pt Helvetica 65 Medium .006" .100" .020" 5.5 pt Helvetica 65 Medium	
Dams and Similiar Features Lineweight Minimum Length Dam Carrying Road Road Symbology Passable Locks Lineweight Text Small Locks Lineweight Minimum Length Lines form Weirs and Jetties Lineweight Text	L/C L/C	.015" .050" Use appropriate road symbol .015" 5.5 pt Helvetica 65 Medium .005" .040" at 45°, Point upstream .008"- to scale and shape 5.5 pt Helvetica 65 Medium	

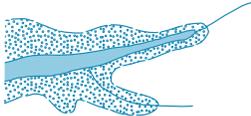
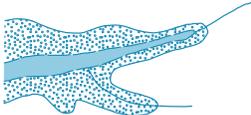
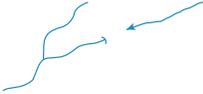
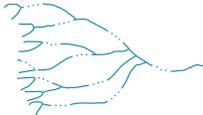
**APPENDIX 2
TOPOGRAPHICAL INFORMATION - HYDROGRAPHY**

WATER SURFACE ELEVATIONS			
Stream Elevation Text		5 pt Helvetica 66 Medium Italic	670
Lake Elevation Text		6 pt Helvetica 66 Medium Italic	520
DISTINCTION BETWEEN "OPEN" AND "INLAND" WATER			
Open Water			
Inland Water			
SHORELINES			
Definite Lineweight		.007"	
Fluctuating Lineweight		.007"	
Dash		.040"	
Space		.020"	
Unsurveyed - Indefinite Lineweight		.007"	
Dash		.120"	
Space		.015"	
Man-made Lineweight		.008"/black	
Lineweight - To scale		.005"/black	
LAKES			
Perennial Lineweight		.007"	
Text(descriptive note) <i>When too numerous to show individual lakes, show representative pattern and descriptive note.</i>	CAPS, C/L or L/C	5.5 to 36 pt Helvetica 66 Medium Italic	
Non-Perennial Lineweight		.007"	
Dash		.120"	
Space		.015"	
<i>(dry, intermittent, etc.) Illustration includes small perennial lake</i>			

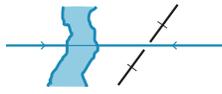
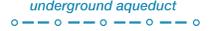
**APPENDIX 2
TOPOGRAPHICAL INFORMATION - HYDROGRAPHY (CONTINUED)**

RESERVOIRS			
Natural Shorelines <i>(to scale)</i>			
Man-made Shorelines <i>(to scale)</i>			
Lineweight Text <i>(Label when necessary for clarity)</i>	CAPS, C/L or L/C	.007" 5.5 pt Helvetica 66 Medium Italic	
Too small to show to scale			
Symbol Text	L/C	.040" Square 5.5 pt Helvetica 66 Medium Italic	
Under Construction			
Shoreline Lineweight Dash Space Text	L/C	.007" .120" .015" 5.5 pt Helvetica 66 Medium Italic	
Line Pattern (Hatching) Lineweight Line Spacing Orientation		.007" .020" 45° angle from upper right to lower left	

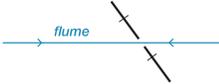
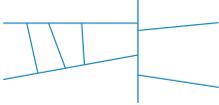
**APPENDIX 2
TOPOGRAPHICAL INFORMATION - HYDROGRAPHY (CONTINUED)**

STREAMS			
Perennial Streams			
Single-Line Stream Normal Lineweight Tapering to at source with Maximum		.007" .004" .015" at conversion with double-line stream	
Double-Line Stream Lineweight		.007" (each side)	
<i>Where accentuation of drainage for a specific chart series is required, tapering shall be in accordance with specific instructions for the series.</i>			
Non-Perennial Streams			
Single-Line Stream Lineweight Dash Spacing (three .015" diameter dots within space)		.007" .200" .100"	
Double-Line Stream Lineweight Dash Space		.007" .120" .015"	
Seasonally Fluctuating			
- with undefined limits		.007" .120" .015"	
- with maximum bank limits, prominent and constant		.007"	
Disappearing Lineweight		.007"	
Fanned Out (Alluvial fan) Lineweight Dash Spacing (three .015" diameter dots within space)		.007" .200" .100"	
Braided Lineweight		.007"	
Sand Deposits in and along Riverbeds			
Wet Sand Areas - Within and adjacent to desert areas			

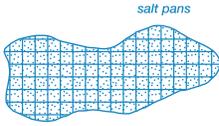
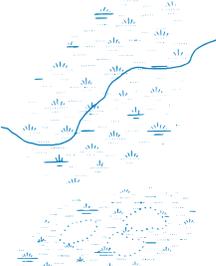
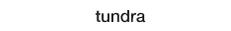
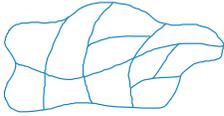
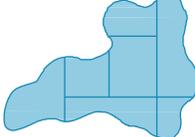
**APPENDIX 2
TOPOGRAPHICAL INFORMATION - HYDROGRAPHY (CONTINUED)**

FALLS AND RAPIDS			
Text (as required)	L/C	5.5 pt Helvetica 66 Medium Italic	
Falls - Double-Line Stream			
Lineweight		.005"	
Length		.040"	
Space		.020"	
Falls - Single-Line Stream			
Lineweight		.007"	
Length		.050"	
Rapids - Double-Line Stream			
Lineweight		.005"	
Length		.040"	
Space		.020"	
Rapids - Single-Line Stream			
Lineweight		.007"	
Length		.050"	
Space		.030"	
AQUEDUCTS			
Lineweight		.012"	
Text (as required)	L/C	5.5 pt Helvetica 66 Medium Italic	
Abandoned or Under Construction Aqueduct			
Lineweight		.012"	
Dash		.120"	
Space		.020"	
Underground Aqueduct			
Lineweight		.012"	
Dash		.060"	
Space		.020"	
Tunnels			
Lineweight		.007"	
Dash		.060"	
Space		.020"	
Wing ticks			
Lineweight		.007"	
Length		.028" long at 45° angles	
<i>* Dashes optional</i>			
Suspended or Elevated			
Lineweight		.012"	
Supports			
Lineweight		.070"	
Length		.028" long at 45° angles	
Kanats - Underground Aqueduct with Air Vents			
Lineweight		.012"	
Dash		.060"	
Space		.020"	
Circle			
Lineweight		.005"	
Diameter		.040"	
<i>* Show vents in true position if known.</i>			

**APPENDIX 2
TOPOGRAPHICAL INFORMATION - HYDROGRAPHY (CONTINUED)**

FLUMES, PENSTOCKS AND SIMILAR FEATURES			
Lineweight Text	L/C	.007" 5.5 pt Helvetica 66 Medium Italic	
Elevated Lineweight Supports Lineweight Length Show underpassing features		.007" .007" .028" long at 45° angles Break .020" from each side	
Underground Lineweight Dash Space		.007" .060" .020"	
CANALS			
Lineweight Text	CAPS or C/L	.015" 5.5 pt Helvetica 66 Medium Italic	
To Scale Lineweight		.007" on each side	
Abandoned or Under Construction Lineweight Dash Space		.015" .120" .020"	
Abandoned or Under Construction - To Scale Lineweight Dash Space		.007" on each side .120" .020"	
Small Canals & Drainage/ Irrigation Ditches			
Perennial Lineweight		.007"	
Non-Perennial Lineweight Dash Space (3 dots within space) Dot Diameter		.007" .200" .100" .015"	
Abandoned or Ancient Lineweight Dash Space Text	L/C	.007" .120" .020" 5.5 pt Helvetica 66 Medium Italic	
Numerous Text <i>*Representative pattern and/or descriptive note.</i>	L/C	5.5 pt Helvetica 66 Medium Italic	 <i>numerous canals and ditches</i>

**APPENDIX 2
TOPOGRAPHICAL INFORMATION - HYDROGRAPHY (CONTINUED)**

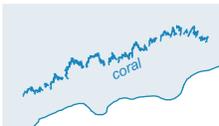
SALT PANS AND SALT EVAPORATORS			
Man Exploited Lineweight Text Pictorial Pattern	L/C	.007" 5.5 pt Helvetica 66 Medium Italic Pictorial pattern when from imagery.	 salt pans
SWAMPS, MARSHES AND BOGS			
Hummocks and Ridges Dot Diameter Space		.010" .030"	
Mangrove and Nipa Text	L/C	5.5 pt Helvetica 66 Medium Italic	 mangrove
Peat Bog Text	L/C	5.5 pt Helvetica 66 Medium Italic	 peat bog
Tundra (Permafrost Areas) Text	L/C	5.5 to 9 pt Helvetica 66 Medium Italic	 tundra
RICE PADDIES AND CRANBERRY BOGS			
Cranberry Bogs Lineweight Text	L/C	.007" 5.5 pt Helvetica 66 Medium Italic	 cranberry bog
Rice Paddies Text	L/C	5.5 pt Helvetica 66 Medium Italic <i>* Extensive areas indicated by label only.</i>	
LAND SUBJECT TO INUNDATION			
			
SPRINGS, WELLS AND WATERHOLES			
Diameter Text		.040" DO NOT LABEL	
FISH PONDS AND HATCHERIES			
(To scale when possible) Lineweight Major Division Lineweight Major Divisions to Scale Lineweight Symbol Text	L/C	.007" .007" .005" .040" square 5.5 pt Helvetica 66 Medium Italic	 fish hatchery ■

**APPENDIX 2
TOPOGRAPHICAL INFORMATION - HYDROGRAPHY (CONTINUED)**

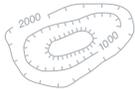
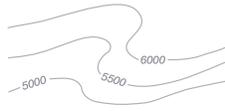
PERMANENT SNOW AND ICE AREAS			
Glaciers			
Limits			
Lineweight		.005"	
Dash		.080"	
Space		.015"	
Glacial Moraines			
Snowfield, Ice Fields & Ice Caps			
Limits			
Lineweight		.005"	
Dash		.080"	
Space		.015"	
Ice Peaks			
Lineweight		.006" to .008"	
Light source shading		NW light source shading	
Ice Cliffs			
Lineweight		.005"	
Dash		.150" to .200"	
Space		.020"	
Ticks			
Length		.020"	
Space		.020"	

PERMANENT SNOW AND ICE AREAS			
<i>* Label appropriately</i>		<i>* Type size may be reduced to 6.5 or 5.5 pt for smaller areas</i>	
Shelf Ice			
Text	L/C	7 pt Helvetica 65 Medium	
Limits			
Minimum Limits			
Text	CAPS	7 pt Helvetica 65 Medium	
"Cliff"			
Text	L/C	7 pt Helvetica 65 Medium	
Pack Ice			
Text	L/C	7 pt Helvetica 65 Medium	
Maximum Limits			
Text	CAPS	7 pt Helvetica 65 Medium	

**APPENDIX 2
TOPOGRAPHICAL INFORMATION - HYDROGRAPHY (CONTINUED)**

COASTAL HYDROGRAPHY			
Foreshore Flats Tidal flats exposed at low tide			
Reefs - Rocky or Coral Lineweight Text	L/C	.007" 5.5 pt Helvetica 66 Medium Italic	
Unusual Hydrographic Features Lineweight Dash Space Text (as required)	L/C	.007" .080" .020" 5.5 pt Helvetica 66 Medium Italic	
Isolated Rocks - Bare or Awash		Orient one line with latitude.	*
Wrecks - Exposed		Location to indicate direction and position of wreck when information available.	
LABELING OF HYDROGRAPHIC FEATURES			
Oceans, Seas, Gulfs, Bays, Sounds, Harbors, Channels, Straits, Rivers, Lakes and Reservoirs	CAPS or C/L	5.5 to 36 pt Helvetica 66 Medium Italic	<i>PACIFIC</i>
Hydrographic Descriptive Notes (falls, rapids, springs, wells, waterholes, etc.)	L/C	5.5 pt Helvetica 66 Medium Italic	<i>numerous wells</i>
Various Offshore Area Notes and features	L/C	5.5 to 7 pt Helvetica 65 Medium	breakwater

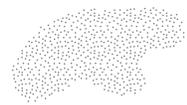
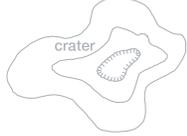
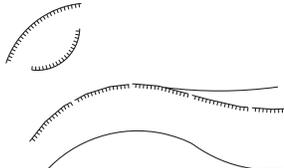
**APPENDIX 3
TOPOGRAPHICAL INFORMATION - RELIEF**

CONTOURS			
Basic Lineweight		.006"	
Intermediate Lineweight		.006"	
Auxiliary Contour Lineweight		.006"	
Approximate Contours			
Basic Lineweight Dash Space		.006" .300" .020"	
Intermediate Lineweight Dash Space		.006" .300" .020"	
Auxiliary Lineweight Dash Space		.006" .150" .020"	
Depression Spurs Long Space <i>* Illustration includes mound within depression.</i>		.020" .020", .040", .080" & .150" as applicable	
Values Text		4.5 pt Helvetica 66 Medium Italic	

**APPENDIX 3
TOPOGRAPHICAL INFORMATION - RELIEF (CONTINUED)**

RELIEF LABELS			
Mountain Peaks	CAPS	5.5 to 7 pt Helvetica 65 Medium	
Mountain Ranges & Ridges; Deserts	CAPS	8 to 36 pt Helvetica 65 Medium <i>(Spaced Proportionately)</i>	
Reservations, National Forests, Parks, etc.	CAPS	5.5 to 36 pt Helvetica 65 Medium	
SPOT ELEVATIONS			
Elevation and Position Accurate Dot Diameter Text		.025" 6 pt Helvetica 66 Medium Italic	
Position Accurate, Elevation Approximate Lineweight Text		.005", .050" overall 6 pt Helvetica 66 Medium Italic	
Highest in General Area Dot Diameter Symbolization Text		.040" Dot or "x" depends upon accuracy determination 7 pt Helvetica 66 Medium Italic	
Highest on Chart Dot Diameter Symbolization Text		.040" Dot or "x" depends upon accuracy determination 8 pt Helvetica 66 Medium Italic	
UNRELIABLE RELIEF			
Hachuring Lineweight Light Source Shading		.006" to .008" Northwest	
Unsurveyed Areas Text	CAPS	5.5 to 9 pt Helvetica 66 Medium	
Uncontoured Areas <i>(Label appropriately as required)</i> Tint		No Tint	
Label - "RELIEF DATA INCOMPLETE"	CAPS	8 pt News Gothic	
Label - "LIMITS OF RELIABLE RELIEF INFORMATION"	CAPS	6 pt Trade Gothic	
Positioning of Text		<i>Text shall be positioned adjacent to the limits of reliable coverage on the black plate.</i>	
TERRAIN PORTRAYAL (SHADED RELIEF)			

**APPENDIX 3
TOPOGRAPHICAL INFORMATION - RELIEF (CONTINUED)**

AREA RELIEF FEATURES			
Distorted Surface Areas			
Text	L/C	5.5 to 9 pt Helvetica 65 Medium	
Lava Flows Lineweight		.006	
Sand or Gravel Areas Use of Label		Large and indefinite areas shall be indicated by text only. 6 pt Helvetica 65 Medium	
Text	L/C		
Sand Ridges (to scale) Use of Label		Large and indefinite areas shall be indicated by text only. 6 pt Helvetica 66 Medium Italic	
Text	L/C		
Sand Dunes (to scale) Use of Label		Large and indefinite areas shall be indicated by text only. 6 pt Helvetica 66 Medium Italic	
Text	L/C		
Miscellaneous Relief Features			
Craters Lineweight		.006" increased at NW for shaded effect	
Text	L/C	5.5 pt Helvetica 65 Medium	
Craters - Depression Line Lineweight		.006"	
Spurs		.020" long	
Space		.020"	
Text	L/C	5.5 pt Helvetica 65 Medium	
Mountain Passes Label with name and elevation of pass. Mountain Pass Text Pass Elevation	CAPS	5.5 pt Helvetica 65 Medium 6 pt Helvetica 66 Medium Italic	
Rock Strata Outcrop When actual shape is known. Lineweight		.006"	
Text	L/C	5.5 pt Helvetica 65 Medium	
Escarments, Bluffs, Cliffs, Depressions, etc. Lineweight		.006"	
Dash		.150 to .200"	
Space		.020"	
Spurs Long		.020"	
Space		.020"	
Levees and Eskers Lineweight		.018"	
Text	L/C	5.5 pt Helvetica 65 Medium	
Islands, Island Groups, Archipelagos, Peninsulas, Points and Capes	CAPS or C/L	5.5 to 36 pt Helvetica 66 Medium Italic	

**APPENDIX 4
TYPE STYLES & SIZES**

TYPE STYLES & SIZES			TAC-SECTIONAL 1:250,000 - 1:500,000
ITEM			TYPE SAMPLES
DESIGNATED VFR CHECKPOINTS	CAPS	6.5 pt Trade Gothic Bold	STATE CAPITOL
LABELING FOR ROADS AND RAILROADS <i>(under construction, approximate alignment, etc.)</i>	L/C	5.5 pt Helvetica 65 Medium	railroad under construction road under construction
ROAD NAMES	CAPS	4.5 pt Helvetica 65 Medium	LINCOLN HIGHWAY
LABELING OF FERRY (Automotive)	L/C	5.5 pt Helvetica 65 Medium	ferry
POPULATED PLACES THREE CATEGORY BREAKDOWN			
Large Cities - Category 1	CAPS	9 pt New Century Schoolbook Roman	ST LOUIS
Cities and Large Towns - Category 2	CAPS	6.5 pt Helvetica 65 Medium	NASHVILLE
Towns and Villeages - Category 3	C/L	6.5 pt Helvetica 65 Medium	Frankfort
BOUNDARIES			
Country - Centered over area	CAPS	8 to 18 pt New Century Schoolbook Bold	MEXICO
Country, State and Provincial - Along boundaries	CAPS	5.5 to 7 pt Helvetica 65 Medium	OHIO UNITED STATES (ARIZONA)
US/Russia Martime Boundary	CAPS	5.5 to 7 pt Helvetica 65 Medium	RUSSIA UNITED STATES
International Date Line (Day)	CAPS C/L	8 pt New Century Schoolbook Bold 8 pt New Century Schoolbook Bold	INTERNATIONAL DATE LINE (Monday)
Time Zones	CAPS & Figs	6 pt Helvetica 65 Medium	MST +7 (+6DT) = UTC
Islands, Island Groups, Archipelagos, Peninsulas, Points and Capes	CAPS or C/L	5.5 to 36 pt Helvetica 65 Medium	SEYCHELLES ISLANDS
Under Island Names (Denoting Possessions)	CAPS	5.5 to 24 pt Helvetica 65 Medium	SAINT CROIX (UNITED STATES)
PICTORIAL SYMBOLS	C/L	5.5 pt Helvetica 65 Medium	State Capitol
UNUSUAL LAND AREAS <i>rock outcrop, lava, light or dark areas, etc.</i>	L/C	5.5 to 9 pt Helvetica 65 Medium (Spaced Proportionally)	lava dark area
MISCELLANEOUS CULTURAL FEATURES <i>church, monument, aerial cableway, athletic field, outdoor theater, school, shrine, silo, fort, cemetery, towers, tanks, wharfs, fishing stakes, cable areas, etc.</i>	L/C	5.5 pt Helvetica 65 Medium	fort cemetery
LABELING FOR TRANSMISSION LINES	CAPS	9 pt Helvetica 65 Medium	CAUTION
LABELING OF COAST GUARD STATION	CAPS	6 pt Helvetica Condensed Bold	CG

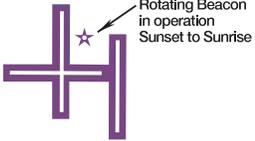
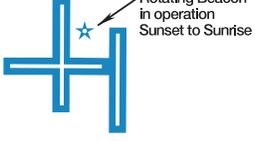
**APPENDIX 4
TYPE STYLES & SIZES (CONTINUED)**

TYPE STYLES & SIZES			TAC-SECTIONAL 1:250,000 - 1:500,000
ITEM			TYPE SAMPLES
WATER SURFACE ELEVATIONS			
Stream Elevation		5 pt Helvetica 66 Medium Italic	670
Lake Elevation		6 pt Helvetica 66 Medium Italic	520
LABELING OF HYDROGRAPHIC FEATURES			
Oceans, Seas, Gulfs, Bays, Sounds, Harbors, Channels, Straits, Rivers, Lakes and Reservoirs	CAPS or C/L	5.5 to 36 pt Helvetica 66 Medium Italic	PACIFIC
Canals	CAPS or C/L	5.5 pt Helvetica 66 Medium Italic	ERIE
Hydrographic Descriptive Notes (falls, rapids, springs, wells, waterholes, etc.)	L/C	5.5 pt Helvetica 66 Medium Italic	numerous wells
Various Offshore Area Notes and Features	L/C	5.5 to 7 pt Helvetica 65 Medium	breakwater
LABELING OF FISH HATCHERY	L/C	5.5 pt Helvetica 66 Medium Italic	fish hatchery
CONTOUR VALUES		4.5 pt Helvetica 66 Medium Italic	6000
RELIEF LABELS			
Mountain Peaks	CAPS	5.5 to 7 pt Helvetica 65 Medium	MOUNT SHASTA
Mountain Ranges & Ridges; Deserts	CAPS	8 to 36 pt Helvetica 65 Medium (Spaced Proportionately)	JURA MOUNTAINS
Reservations, National Forests, Parks, etc.	CAPS	5.5 to 36 pt Helvetica 65 Medium	YELLOWSTONE
ELEVATIONS			
Elevation and Position Accurate		6 pt Helvetica 66 Medium Italic	2216
Position Accurate, Elevation Approximate		6 pt Helvetica 66 Medium Italic	2216
Highest in General Area		7 pt Helvetica 66 Medium Italic	6973
Highest Elevation on Chart		8 pt Helvetica 66 Medium Italic	12770
MISCELLANEOUS RELIEF FEATURES			
Mountain Passes	CAPS	5.5 pt Helvetica 65 Medium	BRENNER PASS
Pass Elevation		6 pt Helvetica 66 Medium Italic	12632
MAXIMUM ELEVATION FIGURE (MEF)			
1000' Figure		24 pt Helvetica Condensed Bold	135
100' Figure		18 pt Helvetica Condensed Bold	

APPENDIX 5
AERONAUTICAL INFORMATION - AIRPORTS

AIRPORTS				
Symbology		<i>Airports having control towers (CT) are shown in blue, all others in magenta.</i>	Non Towered	Towered
Landplane - Military		All runways that exist in the authoritative source database are shown.	 	 
Landplane - Civil		Fuel Available.	  	  
Seaplane - Civil		Fuel Available.		
		<i>Fuel not available or complete information is not available.</i>		
Landplane Civil - Military		Fuel Available.	Non Towered	Towered
			 	 
Landplane - Emergency		<i>Fuel not available or complete information is not available.</i> <i>Add appropriate notes as required:</i> <i>"closed, approximate position, existence unconfirmed"</i>	 PUBLIC USE - Limited attendance or no service available  RESTRICTED OR PRIVATE - Use only in emergency, or by specific authorization  UNVERIFIED - A landing area available but warranting more than ordinary precaution due to: (1) lack of current information on field conditions, and / or (2) available information indicates peculiar operating limitations.  ABANDONED - Depicted for landmark value or to prevent confusion with an adjacent usable landing area. (Normally at least 3000' paved)	
Public-Use				
Restricted or Private				
Unverified				
Abandoned				
Helicopter - (Selected)			Non Towered	Towered
				
Ultralight Flight Park - (Selected)				

APPENDIX 5
AERONAUTICAL INFORMATION - AIRPORTS (CONTINUED)

AIRPORT DATA BLOCK			
<i>Color</i> Airports having control towers (CT) are shown in blue, all others in magenta.		Non Towered	Towered
		 <p style="text-align: center;"> NAME (NAM) (PNAM) ATIS 123.8 285 L 72 122.95 RP 23, 34 </p>	 <p style="text-align: center;"> FSS NO SVFR NAME (NAM) (PNAM) CT - 118.3 *  ATIS 123.8 285 L 72 122.95 RP 23, 34 VFR Advsy 125.0 AOE </p>
Flight Service Stations	CAPS	6.5 pt Helvetica 65 Medium	FSS
NO SVFR	CAPS	6.5 pt Helvetica 65 Medium	NO SVFR
SFAR Part 93 Lineweight		.006"	
Airport Identifiers			
Airport Name	CAPS	6.5 pt Helvetica 65 Medium	NAME
Airport Identifier (FAA)	CAPS	6.5 pt Helvetica 65 Medium	(NAM)
Airport Identifier (ICAO)* <i>*Airports outside CONUS</i>	CAPS	6.5 pt Helvetica 65 Medium	(PNAM)
Control Tower			
"CT"	CAPS	6.5 pt Helvetica 65 Medium	CT - 118.3
Frequency (figs)		7.5 pt Helvetica Condensed Bold	
Part-time Operation			*
ATIS/AFIS			
"ATIS" or "AFIS"	CAPS	6.5 pt Helvetica 65 Medium	ATIS 123.8
Frequency (figs)		7 pt Helvetica Condensed Bold	
AWOS/ASOS			
"AWOS" or "ASOS"	CAPS	6.5 pt Helvetica 65 Medium	ASOS/AWOS 135.42
Frequency (figs)		7 pt Helvetica Condensed Bold	
Airport Elevation		5.5 pt Copperplate 31 A-B Italic	897
Runway Lighting System			
Pilot Controlled Lighting or Part-Time Lighting	CAPS	6.5 pt Helvetica 65 Medium	L *L
Runway Length		6.5 pt Helvetica 65 Medium	72
UNICOM		5.5 pt Copperplate 31 A-B Italic	122.95
CTAF			
Non-Standard Traffic Patterns Special Conditions Exist		6.5 pt Helvetica 65 Medium	RP 23,34 *RP
Non-radar VFR Advisory Service "VFR Advsy"	C/L	6.5 pt Helvetica 65 Medium	VFR Advsy 125.0
Frequency (figs)		7.5 pt Helvetica Condensed Bold	
On-Airport Alaska Wx Cam	CAPS	6.5 pt Helvetica 65 Medium	WX CAM
Airport of Entry	CAPS	6.5 pt Helvetica 65 Medium	AOE

**APPENDIX 6
AERONAUTICAL INFORMATION - RADIO AIDS TO NAVIGATION**

NAVAID DATA			
NAVAID Name Frequency/ies VHF/UHF LF/MF Channel Number (if applicable) Identification Letters Morse Code Frequency Underline Lineweight Box Lineweight All other text NAVAIDs Operating Less than Continuous	CAPS CAPS CAPS	6.5 pt Helvetica 65 Medium 6.5 pt Helvetica Condensed Bold/blue 6.5 pt Helvetica Condensed Bold/magenta 6.5 pt Helvetica Condensed Bold 6.5 pt Helvetica 65 Medium .010" .015" 6.5 pt Helvetica 65 Medium	<p align="center">Operates less than continuous or on-request</p> <p align="center">★</p>
SHUTDOWN NAVAIDS			
VHF/UHF LF/MF			Crosshatch indicates Shutdown status.
MULTIPLE NAVAIDS WITH THE SAME NAME AND IDENTIFIER, DIFFERENT NAVAI DATA			
MULTIPLE NAVAIDS WITH THE SAME NAME, DIFFERENT IDENTIFIER AND DIFFERENT NAVAI DATA			
NAVAID COLLOCATED ON AIRPORTS			
Symbol Type of NAVAI VOR, VOR-DME or VORTAC Compass Roses	CAPS	.040" Diameter Dot 6 pt Helvetica Bold	<p align="center">Compass Rose oriented to slave variation.</p>
COMPASS ROSETTE			
Shown only in area void of VOR roses. Compass Rosette shall be based on five year epoch magnetic variation model.			

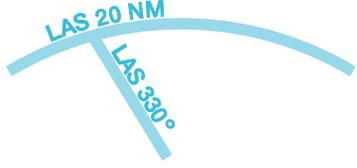
**APPENDIX 6
AERONAUTICAL INFORMATION - RADIO AIDS TO NAVIGATION (CONTINUED)**

NAVAIDS FOR VFR USE ONLY			
Text	C/L	6.5 pt Helvetica 65 Medium Italic	VFR Use Only 
AUTOMATED WEATHER BROADCAST SERVICE			
Automated Weather Observing System (AWOS)/ Automated Surface Observing System (ASOS)	VHF/UHF		LF/MF
	A		A
NAVAIDS TYPES			
VHF/UHF VOR VOR - DME VORTAC DME			       
LF/MF NDB NDB-DME			     <p align="center">Underline indicates no voice on this frequency</p>  
ILS Components ILS - DME (1 and 2 Systems) <i>TAC - Shown when used in the description of Class B airspace.</i>			  

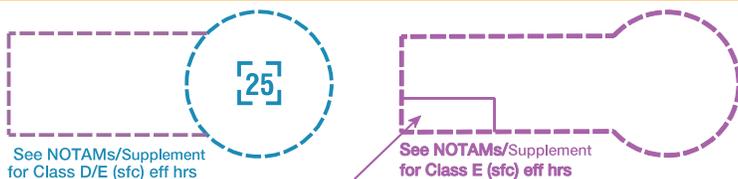
**APPENDIX 6
AERONAUTICAL INFORMATION - RADIO AIDS TO NAVIGATION (CONTINUED)**

NAVAID TYPES (CONTINUED)			
Broadcast Stations (BS) Call Letters Frequency Box Lineweight	CAPS	6.5 pt Helvetica 65 Medium 6.5 pt Helvetica Condensed Bold .006"	
FLIGHT SERVICE STATIONS (FSS)			
Lineweight		.030" Heavy line box indicates Flight Service Station (FSS). Frequencies 122.2 and 255.4 (Conterminous U.S.); 121.5, 122.2, 243.0 and 255.4 (Alaska); and 121.5, 126.7, and 243.0 (Canada) 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. R - received only	 No NAVAID of the same name as FSS OR FSS oper 0500-2300 Boise FSS other times. NAVAID same name as FSS but not an RCO
Remote Communications Outlet (RCO) Frequency and Channel All Other Text Frequency Underline Lineweight Box Lineweight Brackets Lineweight	CAPS C/L	6.5 pt Helvetica Condensed Bold 6.5 pt Helvetica 65 Medium .010" .015" .010" 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 Chart Supplement for complete information. Thin line box without frequencies and controlling FSS name indicates no FSS frequency available.	
International Flight Service Station Box Lineweight Text Frequencies	CAPS	.015" 6.5 pt Helvetica 65 Medium 6.5 pt Helvetica Condensed Bold	
OFF-AIRPORT AUTOMATED WEATHER REPORTING FACILITIES (AWOS/ASOS)			
Box Lineweight Text Frequencies	CAPS	.015" 6.5 pt Helvetica 65 Medium 6.5 pt Helvetica Condensed Bold	
OFF-AIRPORT ALASKA WEATHER CAMERA LOCATIONS			
Text	CAPS	6.5 pt Helvetica 65 Medium	

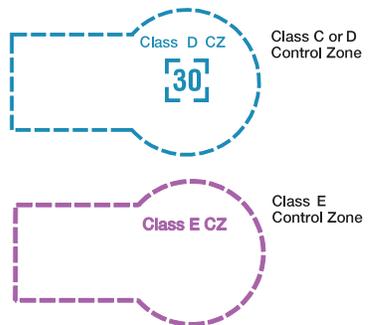
**APPENDIX 7
AERONAUTICAL INFORMATION - AIRSPACE INFORMATION**

CLASS B AIRSPACE			
		Sectional	TAC
		 <p>LAS VEGAS CLASS B</p>	 <p>LAS VEGAS CLASS B</p>
Line		.060"	.060"
Internal Line Segments		.040"	.060"
Class B "Title" Text	CAPS	9 pt Trade Gothic Bold	9 pt Trade Gothic Bold
Arc and Radial Text	CAPS		7 to 10 pt Helvetica 65 Medium
Class B Ceiling and Floor Values <i>(A plus in front of the floor value is used to indicate upward from above "the altitude.")</i>		$\frac{80}{+40}$ - Ceiling of Class B in hundreds of feet MSL - Floor of Class B in hundreds of feet MSL	
Text	CAPS	8 to 24 pt Helvetica Condensed Bold	
Class B Contact Information Box (TAC only)			<div style="border: 1px solid black; padding: 2px; display: inline-block;"> CTC LAS VEGAS APP ON 121.1 OR 257.8 </div>
Text	CAPS	Not Applicable	7 to 10 pt Helvetica 65 Medium
Box Lineweight			.030"
CLASS C AIRSPACE			
		 <p>BURBANK CLASS C</p> <p>See NOTAMs/Supplement for Class C eff hrs</p>	
Line		.060"	
Class C "Title" Text	CAPS	9 pt Trade Gothic Bold	
Part Time Text	C/L	6.5 pt Helvetica 65 Medium	
Class C Ceiling and Floor Values		$\frac{48}{30}$ - Ceiling of Class C in hundreds of feet MSL - Floor of Class C in hundreds of feet MSL	
Text	CAPS	8 to 24 pt Helvetica Condensed Bold	
Class C Contact Information Box			<div style="border: 1px solid black; padding: 2px; display: inline-block;"> CTC BURBANK APP WITHIN 20 NM ON 124,6 395,9 </div>
Text	CAPS	7 to 10 pt Helvetica 65 Medium	
Box Lineweight			.030"
CLASS D AIRSPACE			
ALTITUDE IN HUNDREDS OF FEET MSL <i>(A minus in front of the figure is used to indicate "from surface to but not including...")</i>		 <p>See NOTAMs/Supplement for Class D eff hrs</p> <p>Class D excluded below 1500' MSL</p> <p>See NOTAMs/Supplement for Class D/E (sfc) eff hrs</p>	
Ceiling Text		8 to 12 pt Helvetica Condensed Bold	
Part Time and Exclusion Text	C/L	6.5 pt Helvetica 65 Medium	
Lineweight		.020"	
Exclusion Lineweight		.015"	

**APPENDIX 7
AERONAUTICAL INFORMATION - AIRSPACE INFORMATION (CONTINUED)**

CLASS E AIRSPACE			
<p><i>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:</i></p> <p><i>Airspace beginning at the surface designated around airports ...</i></p>			
<p>Ceiling Text Part Time and Exclusion Text Lineweight Exclusion Lineweight</p>	<p>C/L C/L</p>	<p>8 to 12 pt Helvetica Condensed Bold 6.5 pt Helvetica 65 Medium .020" .015</p>	
<p>Airspace beginning at 700' AGL that laterally abuts 1200' or higher Class E Airspace</p>	<p>C/L</p>	<p>.1875" 6.5 pt Helvetica 65 Medium</p>	 <p>700' Class E eff 0600-2300</p>
<p>Airspace beginning at 700' AGL that laterally abuts uncontrolled (Class G) airspace</p>	<p>CAPS</p>	<p>6 to 18 pt Helvetica Condensed Bold</p>	 <p>CLASS G</p>
<p>Airspace beginning at 1200' AGL or greater that laterally abuts uncontrolled (Class G) airspace</p>	<p>CAPS</p>	<p>.1875"</p>	
<p>Differentiates floors of airspace greater than 700' above the surface</p>	<p>CAPS</p>	<p>6 to 18 pt Helvetica Condensed Bold</p>	 <p>CEILING 14,000 MSL</p>
<p>Text AGL - Above Ground Level MSL - Mean Sea Level</p>			<p>8000 AGL</p>
<p><i>When the ceiling is less than 18,000 feet MSL, the value, prefixed by the word "CEILING", shall be shown along the limits.</i></p>			
OFFSHORE CONTROL AREAS			
<p>Text Lineweight Line Length Line Overlap Floor and Ceiling Text</p>	<p>CAPS CAPS</p>	<p>7 pt Copperplate Gothic 31 A-B screened .035" .350" .100" each side 6 to 18 pt Alternate Gothic</p>	

**APPENDIX 7
AERONAUTICAL INFORMATION - AIRSPACE INFORMATION (CONTINUED)**

CANADIAN AIRSPACE			
<p><i>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.</i></p> <p><i>Appropriate notes as required may be shown.</i></p> <p>Line TCA Class B/C/D internal segments on Sectional</p> <p>Text</p>	CAPS	.060"	<p align="right">TCA Class B/C/D</p> 
		.040"	
<p>Ceiling Text</p> <p>Other Text</p> <p>Lineweight</p>	C/L	<p>8 to 12 pt Helvetica Condensed Bold</p> <p>6.5 pt Helvetica 65 Medium</p> <p>.020"</p>	 <p align="center">ALTITUDE IN HUNDREDS OF FEET MSL</p>
FLIGHT INFORMATION REGIONS (FIR) AND/OR CONTROL AREAS (CTA)			
<p>Text</p> <p>Lineweight</p> <p>Spacing of ticks</p> <p>Length</p>	CAPS	<p>6 to 24 pt Futura Book <i>(Size of Type varies with size of area)</i></p> <p>.015"</p> <p>.300"</p> <p>.035"</p>	<p align="center">No FIR exists this side - No ticks</p> 
OCEANIC CONTROL AREAS (OCA)			
			 <p align="center">OAKLAND OCEANIC CONTROL AREA</p>
AIR DEFENSE IDENTIFICATION ZONES (ADIZ, CADIZ, ETC.)			
<p><i>Delimiting line not shown when it coincides with International Boundary, Projection Lines or other linear features.</i></p> <p>Text</p> <p>Lineweight</p> <p>Dot Size</p> <p>Width of symbol</p>	CAPS	<p>8 to 32 pt Copperplate Gothic 31 A-B <i>(Size of Type varies with size of area)</i></p> <p>.015"</p> <p>.025" diameter</p> <p>.100"</p>	<p align="center">ALASKA ADIZ</p> 

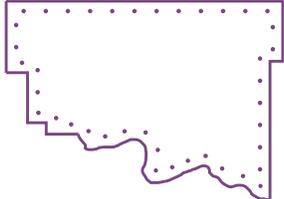
**APPENDIX 7
AERONAUTICAL INFORMATION - AIRSPACE INFORMATION (CONTINUED)**

AIRWAYS & AIRWAY DATA (CLASS E)			
<p>Class E Airways (Low Altitude Airways VOR and LF/MF)</p> <p>Bearings Airway Text Airway Width Mileage Lineweight - Mileage Box</p> <p><i>Low altitude Federal Airways are indicated by centerline.</i></p> <p><i>Only the controlled airspace effective below 18,000 feet MSL is shown.</i></p> <p><i>Only direct routes shall be depicted with total mileages between NAVAIDs.</i></p>	CAPS	<p>9 pt Helvetica 66 Medium Italic 7 pt Helvetica Condensed Bold .060" 7 pt Helvetica 65 Medium .010"</p>	
<p>RNAV Waypoints Name</p>	CAPS	6 pt Helvetica Bold Oblique	
<p>Miscellaneous Air Routes Bearings Airway Text Airway Width Mileage Lineweight - Mileage Box</p> <p><i>Only direct routes shall be depicted with total mileages between NAVAIDs.</i></p>	CAPS	<p>9 pt Helvetica 66 Medium Italic 7 pt Helvetica Condensed Bold .060" 7 pt Helvetica 65 Medium .010"</p>	
<p>Airway Data Intersections Name <i>(Named intersections used as reporting points.)</i> <i>Arrows are directed toward facilities which establish intersection.</i></p>	CAPS	6 pt Helvetica Bold Oblique	
<p>(TAC) Arrival and Departure Routes Arrival Routes Arrowhead Spacing Text</p> <p>Departure Routes Arrowhead Spacing Text</p> <p>Arrival/Departure Routes Arrowhead Spacing Text</p>		<p>.100" 8 pt Helvetica Condensed Bold</p> <p>.100" 8 pt Helvetica Condensed Bold</p> <p>.100" 8 pt Helvetica Condensed Bold</p>	

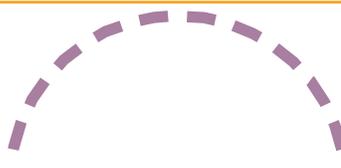
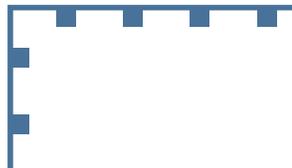
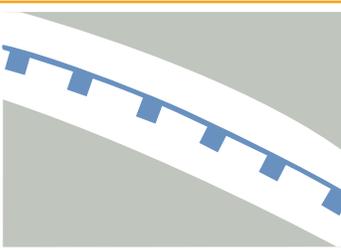
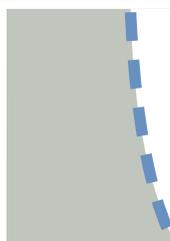
**APPENDIX 7
AERONAUTICAL INFORMATION - AIRSPACE INFORMATION (CONTINUED)**

SPECIAL USE AIRSPACE (SUA)			
Text Boundary Cross Hatching Width Cross Hatching Lineweight Cross Hatching Spacing	CAPS	5 to 14 pt Copperplate Gothic 31 A-B .015" .100" .007" .025"	
Exclusions Text Lineweight	CAPS	5 to 6 pt Copperplate Gothic 31 A-B .015"	PROHIBITED, RESTRICTED OR WARNING AREA
<i>Only the airspace effective below 18,000 feet MSL are shown.</i>			
<i>The type of area shall be spelled out in large areas if space permits.</i>		MILITARY OPERATIONS AREA (MOA)	ALERT AREA
MILITARY TRAINING ROUTES (MTRs)			
Lineweight of Route Route Text	CAPS	.030" 6 pt Copperplate Gothic 31 A-B	
SPECIAL MILITARY ACTIVITY ROUTES (SMARs)			
<i>Boxed notes shown adjacent to route.</i> Text Boundary Cross Hatching Width Cross Hatching Lineweight Cross Hatching Spacing Segment Lineweight	CAPS	10 to 24 pt Helvetica Condensed Bold .015" .100" at 45° angle .007" .025" .030"	
Box Lineweight Text	CAPS	.015" 7 pt Helvetica 65 Medium	
Ceiling of SMAR in hundreds of feet MSL Floor of SMAR in hundreds of feet AGL			40/05 AGL
SPECIAL AIR TRAFFIC RULES/AIRPORT TRAFFIC PATTERNS (FAR PART 93)			
Boundary Cross Hatching Width Cross Hatching Lineweight Cross Hatching Spacing		.015" .100" at 45° angle .007" .100"	
Text Box Lineweight <i>Appropriate boxed note as required shown adjacent to area.</i>	CAPS or C/L	7 to 11 pt Helvetica 65 Medium .006"	
SPACE OPERATIONS AREAS (FAR PART 91.143)			
Text Boundary	CAPS	6 to 11 pt Helvetica 65 Medium .015"	

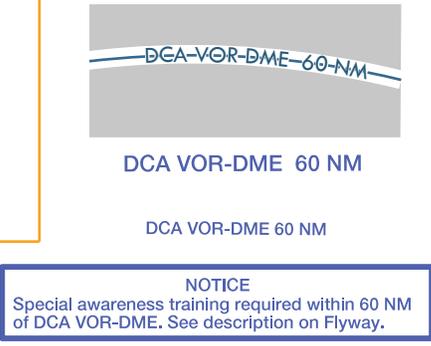
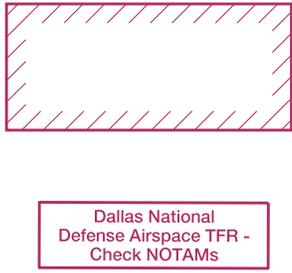
**APPENDIX 7
AERONAUTICAL INFORMATION - AIRSPACE INFORMATION (CONTINUED)**

MODE C (FAR PART 91.215)			
Line Text <i>Appropriate notes as required may be shown. Additional MODE C requirements FAR 91 Appendix D.</i>	CAPS & Figs	.025" 7 to 9 pt Helvetica 65 Medium	MODE C 
SPECIAL ACTIVITIES AREAS			
Parachute Jumping Areas Text Glider Operations Areas Ultralight Activity Areas Hang Gliding Activity Areas Unmanned Aircraft Activity Areas Aerobatic Practice Areas Space Launch Activity Areas		7 pt Helvetica Condensed Bold	      
SPECIAL CONSERVATION AREAS			
<i>National Park, Wildlife Refuge, Primitive and Wilderness Areas, etc.</i> Lineweight Dot Size (Diameter) Dot Spacing Text	CAPS	.015" .025" .080" 4.5 pt Copperplate Gothic 31 A-B	
NOAA REGULATED MARINE SANCTUARY DESIGNATED AREAS			
Lineweight Dot Size (Diameter) Dot Spacing Text (Note) Text (Web Address) Lineweight Text	CAPS L/C C/L	.015" .025" .080" 10 pt Helvetica Condensed Bold 6pt Helvetica 65 Medium .015" 6.5 pt Helvetica 65 Medium	 NOAA REGULATED NATIONAL MARINE SANCTUARY DESIGNATED AREAS <small>(see http://sanctuaries.noaa.gov/flight)</small> <div style="border: 1px solid black; padding: 5px; width: fit-content;"><small>Flight operations below 2000' AGL over the designated areas within the Olympic Coast National Marine Sanctuary violate NOAA regulations. (see 15 CFR 922)</small></div>

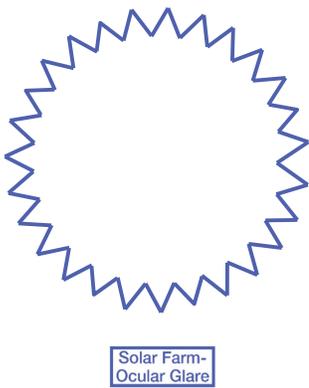
**APPENDIX 7
AERONAUTICAL INFORMATION - AIRSPACE INFORMATION (CONTINUED)**

NATIONAL SECURITY AREAS (NSA)			
Lineweight Dash length Spacing		.060" .150" .100"	 <p>Small Area </p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p align="center">NOTICE</p> <p align="center">FOR REASONS OF NATIONAL SECURITY PILOTS ARE REQUESTED TO AVOID FLIGHT BELOW 1200' MSL IN THIS AREA</p> </div>
Text Box Lineweight	CAPS	7 pt Helvetica 65 Medium .015"	
SPECIAL FLIGHT RULES AREAS (SFRA)			
<i>Appropriate notes as required may be shown.</i>			
Lineweight Square Spacing		.030" .100" .250"	 <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>SPECIAL FEDERAL AVIATION REGULATIONS (SFAR) 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.</p> </div>
Text Box lineweight	C/L	7 to 20 pt Helvetica 65 Medium .015"	
NATIONAL SECURITY SPECIAL FLIGHT RULES AREA (SFRA)			
<i>Example: See Washington DC area charts</i>			
<i>Appropriate notes as required may be shown.</i>			
Lineweight Square Spacing		.030" .100" .250"	 <p align="center">WASHINGTON DC METROPOLITAN AREA SFRA</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>Washington DC Metropolitan Area Special Flight Rules Area/Flight Restricted Zone (DC SFRA & DC FRZ) (See description in Atlantic Ocean).</p> </div>
Width of Masking		.500" (TAC) .300" (Sectional)	
Text Text Box lineweight	CAPS C/L	9 pt Copperplate Gothic 7 pt Helvetica 65 Medium .030"	
NATIONAL SECURITY TEMPORARY FLIGHT RESTRICTION (TFR) AREA			
<i>Example: See P-40/R-4009</i>			
<i>- Baltimore/Washington charts</i>			
<i>Appropriate notes as required may be shown.</i>			
Lineweight Dash Length Spacing		.060" .150" .100"	 <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p align="center">CAUTION</p> <p align="center">P-40 AND R-4009 EXPANDED BY TEMPORARY FLIGHT RESTRICTION. CONTACT AFSS FOR LATEST STATUS AND NOTAMS</p> </div>
Text Box lineweight	CAPS	7 pt Helvetica 65 Medium .030"	

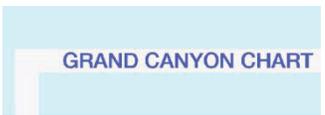
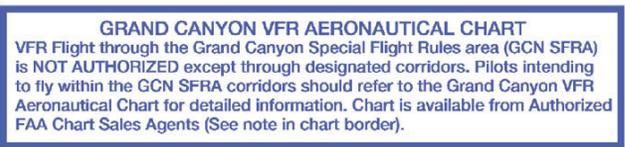
**APPENDIX 7
AERONAUTICAL INFORMATION - AIRSPACE INFORMATION (CONTINUED)**

NATIONAL SECURITY FLIGHT RESTRICTED ZONE (FRZ)			
Example: See Washington DC area charts Appropriate notes as required may be shown. Text Boundary Lineweight Cross Hatching Width Lineweight Spacing Topographical and City Tint	CAPS	6.5 pt Copperplate Gothic 31 A-B .015" .100" .007" .025" Screened by 20%	
SPECIAL AWARENESS TRAINING AREAS			
Example: See Washington DC area charts Lineweight Width of Masking Text (TAC) Text (Sectional) Text Box lineweight	CAPS CAPS CAPS C/L	.010" .150" (TAC) .120" (Sectional) 9 pt Helvetica 65 Medium 7 pt Helvetica 65 Medium 7 pt Helvetica 65 Medium .030"	
SPECIAL SECURITY NOTICE PERMANENT CONTINUOUS FLIGHT RESTRICTION AREAS			
Boundary Lineweight Text Box Lineweight	C/L	.015" 7 pt Helvetica 65 Medium .030"	
SPORTING EVENT TEMPORARY FLIGHT RESTRICTION SITES			
Text	CAPS	5.5 pt Helvetica 65 Medium	
NATIONAL DEFENSE AIRSPACE TEMPORARY FLIGHT RESTRICTION (TFR) AREAS			
Boundary Cross Hatching Width Cross Hatching Lineweight Cross Hatching Spacing Text Box Lineweight Appropriate boxed note as required shown adjacent to area.	CAPS or C/L	.015" .100" at 45° angle .007" .100" 7 to 11 pt Helvetica 65 Medium .015"	

**APPENDIX 7
AERONAUTICAL INFORMATION - AIRSPACE INFORMATION (CONTINUED)**

HIGH ENERGY RADIATION AREAS/PERMANENT LASER LIGHT DEMONSTRATIONS			
Lineweight Width of Pattern The inner portion of the pattern represents the limits. Appropriate notes as required may be shown. Text Box Lineweight	C/L	.020" .150" 7 to 11 pt Helvetica 65 Medium .015"	
TERMINAL RADAR SERVICE AREA (TRSA)			
TRSA Text TRSA Boundaries (TACs & Sectionals) Outer Line width TRSA Sectors (Sectionals ONLY) Sector Line width Ceiling/Floor Text Advisory Text	CAPS CAPS	9 pt Trade Gothic Bold .060" .040" 8 to 24 pt Helvetica Condensed Bold 7 to 9 pt Helvetica 65 Medium	<p>PALM SPRINGS TRSA</p>  <p>80 - Ceiling of TRSA in hundreds of feet MSL 40 - Floor of TRSA in hundreds of feet MSL</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">SEE TWR FREQ TAB</div>

**APPENDIX 8
AERONAUTICAL INFORMATION - CHART LIMITS**

CHART LIMITS			
Outline of Terminal Area Chart on the Sectional Chart			
Text Boundary Lineweight	CAPS	9 pt Helvetica 65 Medium .125"	
Terminal Area Name Text Note Text Box Lineweight	CAPS C/L	7 to 9 pt Helvetica 65 Medium 7 to 9 pt Helvetica 65 Medium .030"	
Outline of Inset Chart on the Sectional Chart			
Text Boundary Lineweight	CAPS	9 pt Helvetica 65 Medium .125"	
Inset Name Text Note Text Box Lineweight	CAPS C/L	7 to 9 pt Helvetica 65 Medium 7 to 9 pt Helvetica 65 Medium .030"	<p>If inset chart is on the same chart as outline:</p>  <p>If inset chart is on a different chart:</p>  <p><i>Notes may vary to identify insets which do not meet the above situation.</i></p>
Outline of Special Chart on the Sectional and Area Terminal Chart			
Text Boundary Lineweight	CAPS	9 pt Helvetica 65 Medium .125"	
Special Chart Name Text Note Text Box Lineweight	CAPS C/L	7 to 9 pt Helvetica 65 Medium 7 to 9 pt Helvetica 65 Medium .030"	

**APPENDIX 9
AERONAUTICAL INFORMATION - NAVIGATIONAL & PROCEDURAL INFORMATION**

ISOGONIC LINE AND VALUE			
Text Dashed Lineweight <i>Value shall be placed in center of line and on each end, one dash from neatline. In addition, at least once in each fold.</i> <i>Isogonic lines and values shall be based on the five year epoch magnetic variation model.</i>	CAPS	11 pt Helvetica 66 Medium Italic .018"	
Local Magnetic Notes Unreliability Notes Text Box Lineweight	C/L	7 pt Helvetica 65 Medium .006"	<div style="border: 1px solid purple; padding: 5px; width: fit-content;">Magnetic disturbance of as much as 78° exists at ground level and 10° or more at 3000 feet above ground level in this vicinity</div>
AERONAUTICAL LIGHTS			
Rotating or Oscillating Located at Aerodrome Isolated Location Text		6.5 pt Copperplate 31A-B Italic	 ★ 2520
Rotating Light with Flashing Code Identification Light Located at Aerodrome Isolated Location			 ★ · · ·
Rotating Light with Course Lights and Site Number Text Located at Aerodrome Isolated Location		7 pt Copperplate Gothic 31A-B	 Site 5 18 4B
Flashing Light Text Located at Aerodrome Isolated Location	C/L	6 pt Helvetica 65 Medium	 FI FI

**APPENDIX 9
AERONAUTICAL INFORMATION - NAVIGATIONAL & PROCEDURAL INFORMATION**

MARINE LIGHTS			
Text	C/L	6 pt Helvetica 65 Medium	<p align="right">Oc R SEC</p> <p><i>Red</i> R <i>White</i> *W <i>Green</i> G <i>Blue</i> BU <i>Orange</i> OR <i>Black</i> B <i>Yellow</i> Y <i>Sector</i> SEC <i>Fixed</i> F <i>Single Occulting</i> Oc <i>Group Occulting</i> Oc (2) <i>Composite Group Occulting</i> Oc (2+1) <i>Isophase</i> Iso <i>Flashing</i> FI <i>Group Flashing</i> FI (2) <i>Composite Group Flashing</i> FI (2+1) <i>Quick</i> Q <i>Interrupted Quick</i> IQ <i>Morse Code</i> Mo (A) <i>Fixed and Flashing</i> FFI <i>Alternating</i> AI <i>Group</i> Gp <i>Long Flash</i> LFI <i>Group Quick Flashing</i> Q (3) <i>Interrupted Quick Flashing</i> IQ <i>Very Quick Flashing</i> VQ <i>Group Very Quick Flashing</i> VQ (3) <i>Interrupted Very Quick Flashing</i> IVQ <i>Ultra Quick Flashing</i> UQ <i>Interrupted Ultra Quick Flashing</i> IUQ</p>
Light Characteristics			
*Marine Lights are white unless otherwise noted. Alternating lights are red and white unless otherwise noted.			
VFR CHECKPOINTS			
Text	CAPS	6.5 pt Trade Gothic Bold	<p>Pictorial  STATE CAPITOL</p> <p> SIGNAL HILL</p> <p> NORTHBROOK 113.0 Ch 77 OBK </p> <p> LEWIS (Pvt) 989 - 27</p>
Underline		.010"	
VFR WAYPOINTS			
Text	CAPS	6 pt Helvetica Bold Oblique	<p>Stand-alone  VPXYZ</p> <p>Collected with VFR Checkpoint  NAME (VPXYZ)</p>

APPENDIX 9

AERONAUTICAL INFORMATION - NAVIGATIONAL & PROCEDURAL INFORMATION

OBSTRUCTIONS									
Descriptive Text MSL Text AGL Text UC Group Obstructions	C/L CAPS	6 pt Helvetica 65 Medium 6.5 pt Copperplate 31 A-B Italic 7 pt Helvetica 65 Medium 6 pt Helvetica 65 Medium	<p>1473 (394) bldg Less than 1000' (AGL) 628 UC Under Construction or reported and position / elevation unverified 3368 (1529) 1000' & higher (AGL) 1062 (227) Less than 1000' (AGL) 4977 (1432) 1000' and higher (AGL) 2889 (1217) At least two in group 1000' and higher (AGL)</p>						
High Intensity Obstruction Lights <i>High intensity lights may operate part-time.</i>			Less than 1000' (AGL) 1000' and higher (AGL) <p>Group Obstruction</p>						
Wind Turbines Windmill/Wind Turbines Symbols MSL Text AGL Text UC Concentrated Groups or "Farm" of Wind Turbines MSL Text UC Box Lineweight Outline Lineweight Dash Length Dash Spacing	CAPS	6.5 pt Copperplate 31 A-B Italic 7 pt Helvetica 65 Medium 6 pt Helvetica 65 Medium 7 pt Helvetica 65 Medium 6 pt Helvetica 65 Medium .015" .015" .100" .030"	<table border="1"> <thead> <tr> <th>Individual</th> <th>Group</th> <th>High Intensity Lighting</th> </tr> </thead> <tbody> <tr> <td> 2179 (315)</td> <td> 2735 (415)</td> <td></td> </tr> </tbody> </table>	Individual	Group	High Intensity Lighting	2179 (315)	2735 (415)	
Individual	Group	High Intensity Lighting							
2179 (315)	2735 (415)								
MAXIMUM ELEVATION FIGURES (MEFs)									
Unreliable Relief Note Text MEF Text 1000' digits 100' digits	CAPS & Figs	9 to 36 pt Helvetica Condensed Bold 24 pt Helvetica Condensed Bold 18 pt Helvetica Condensed Bold	<p>MAXIMUM ELEVATION FIGURES ARE BELIEVED NOT TO EXCEED 7600 FEET.</p> <p>135</p>						
WARNING & CAUTION NOTES									
<i>Used when specific area is not demarcated.</i> Text Box Lineweight	C/L	5 to 7 pt Helvetica 65 Medium .006" to .030"	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>WARNING Extensive fleet and air operations being conducted in offshore areas to approximately 100 miles seaward.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>CAUTION: Be prepared for loss of horizontal reference at low altitude over lake during hazy conditions and at night.</p> </div>						

APPENDIX 10 SECTIONAL CHART PANEL



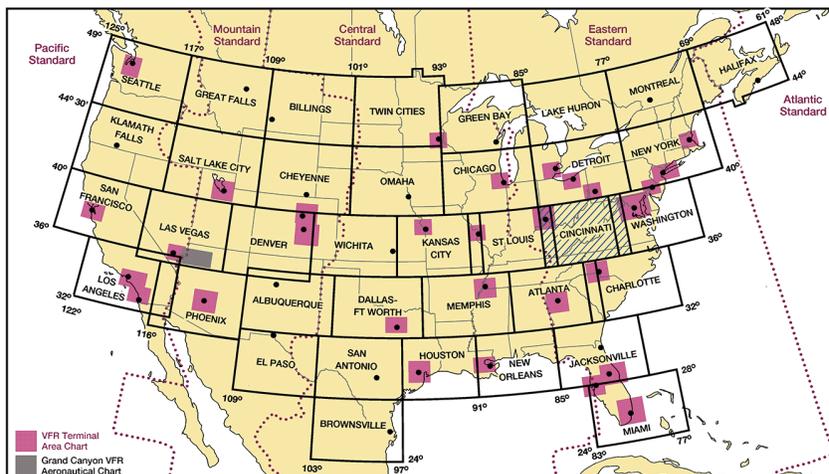
CINCINNATI SECTIONAL

SECTIONAL AERONAUTICAL CHART SCALE 1:500,000



EFFECTIVE 0901Z **25 FEB 2021**
TO 0901Z **22 APRIL 2021**

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



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

Warning: Refer to current foreign charts and flight information publications for information within foreign airspace.



FAA Product ID: SCIN



NSN 7641014100161

NGA REF. NO. SECXXCINNATI



EFF. DATE 21056

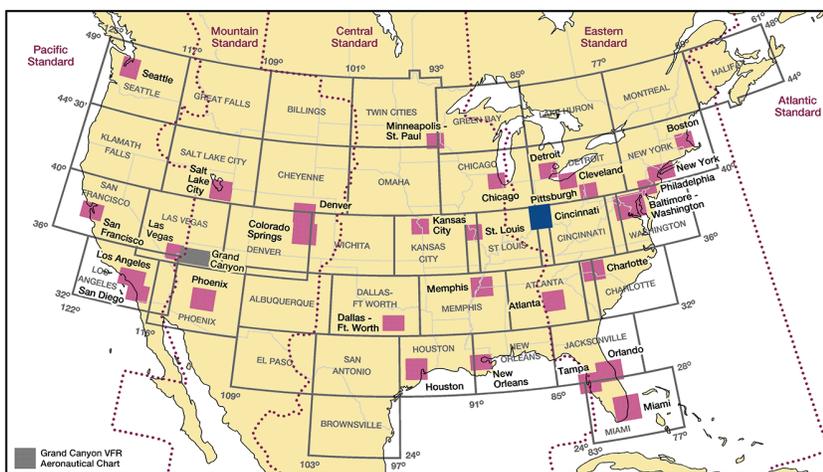
APPENDIX 11 TERMINAL AREA CHART PANEL

CINCINNATI TAC VFR TERMINAL AREA CHART SCALE 1:250,000



EFFECTIVE 0901Z **25 FEB 2021**
TO 0901Z **22 APRIL 2021**

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



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

Warning: Refer to current foreign charts and flight information publications for information within foreign airspace.



FAA Product ID: TCIN



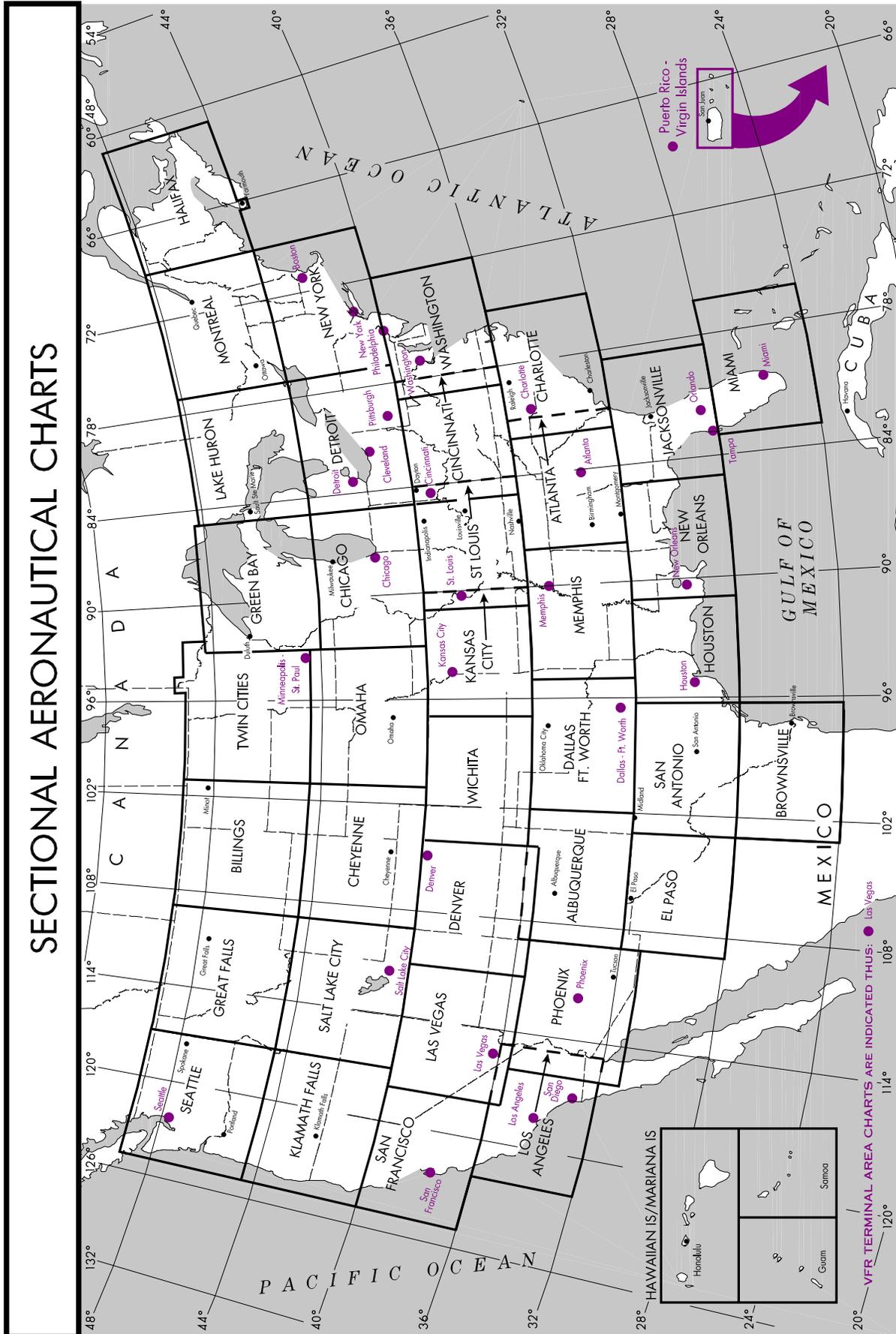
NSN 7641014607683

NGA REF. NO. VVRTACINCINNATI

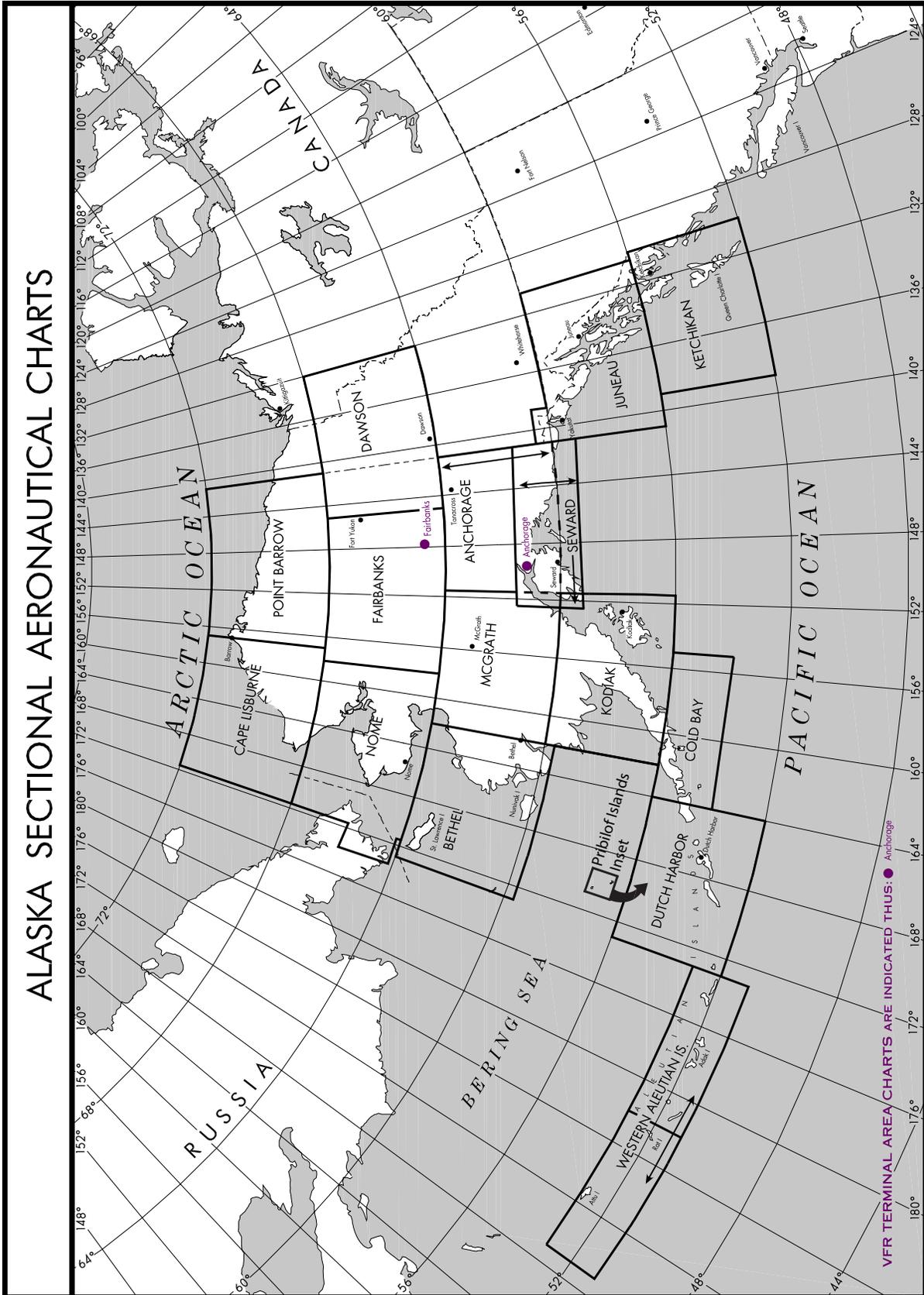


EFF. DATE 21056

APPENDIX 12 CHART INDEX - U.S.

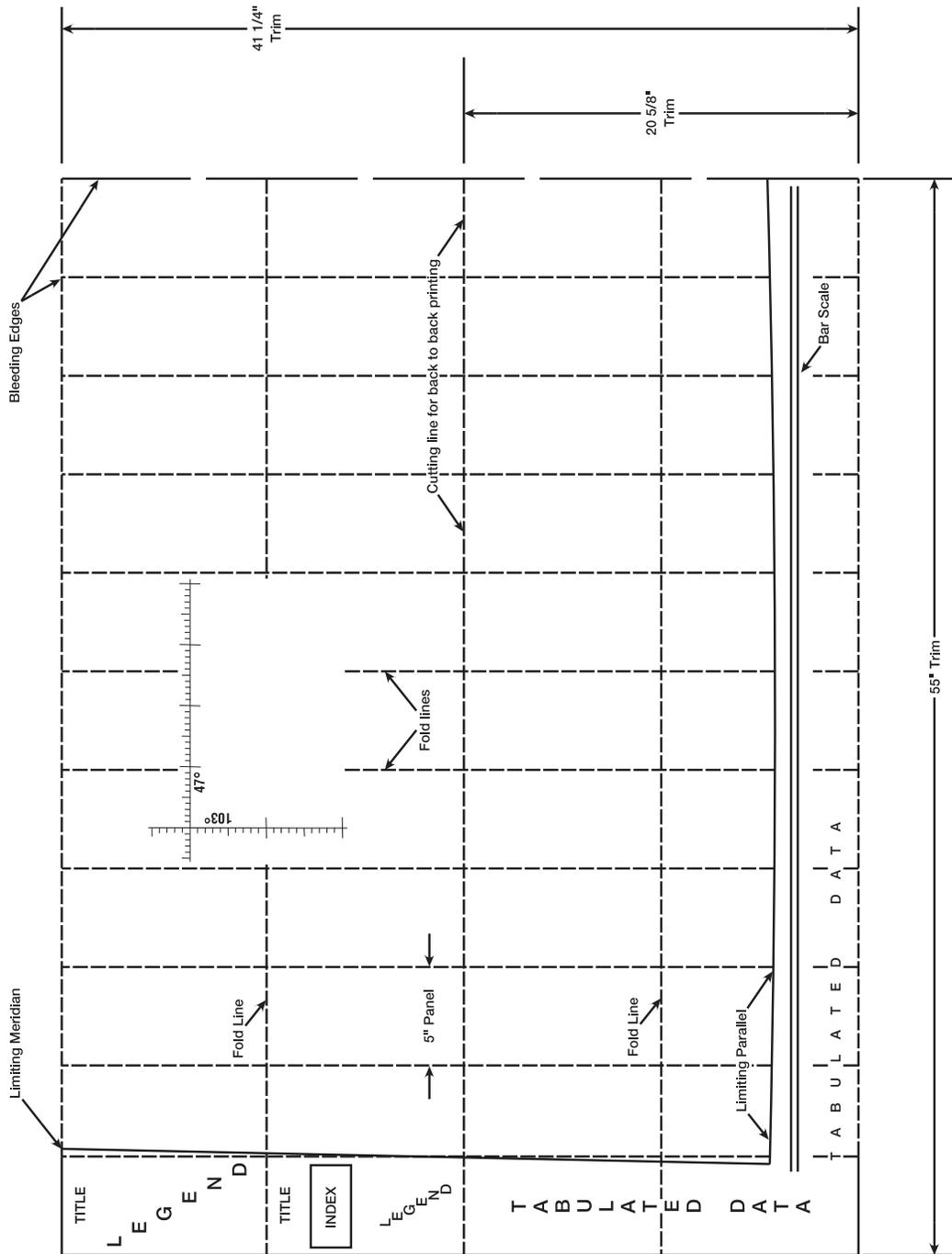


APPENDIX 13
CHART INDEX - ALASKA



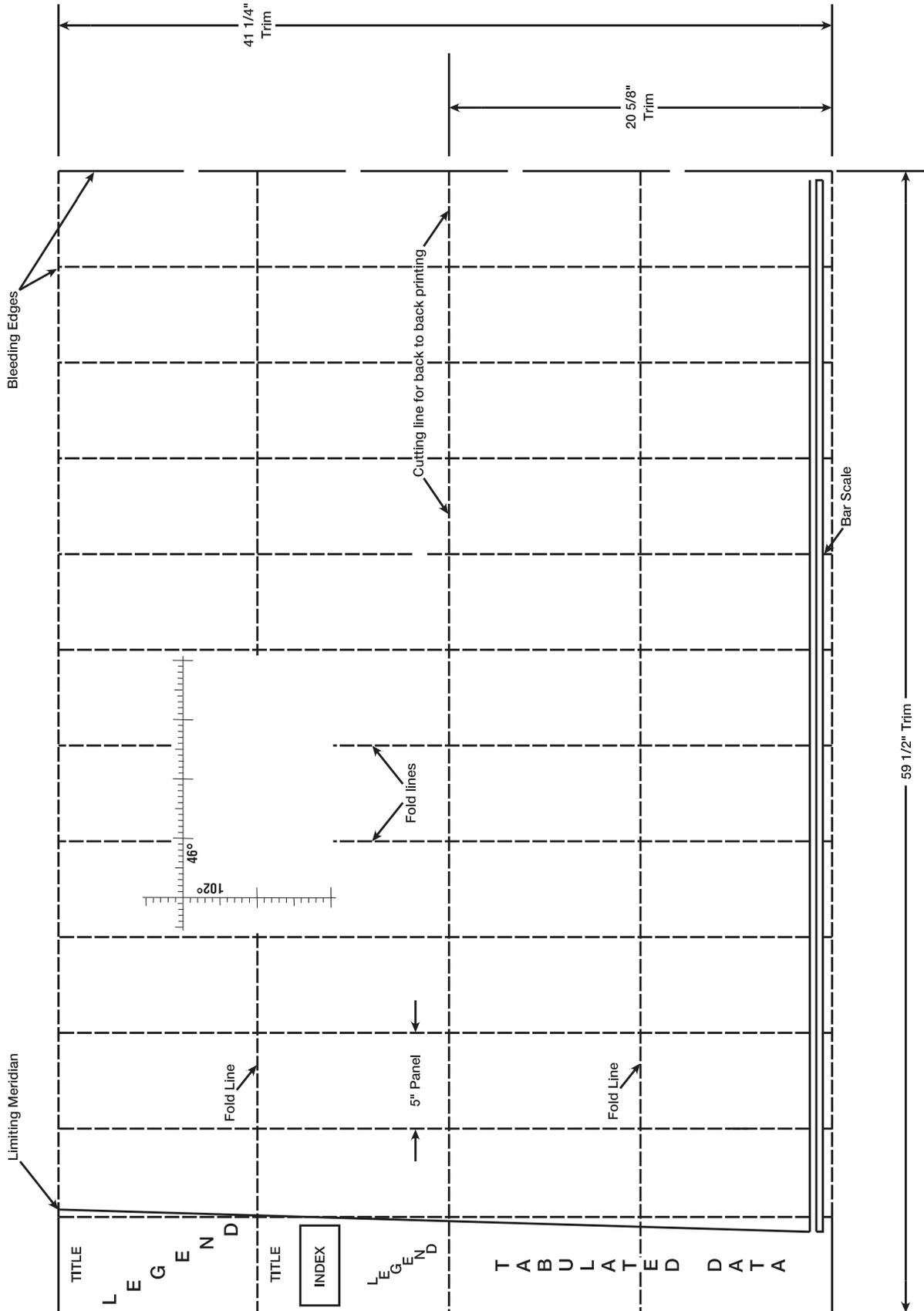
APPENDIX 14 STYLE SHEET - NORMAL COVERAGE

CHART LAYOUT NORMAL COVERAGE



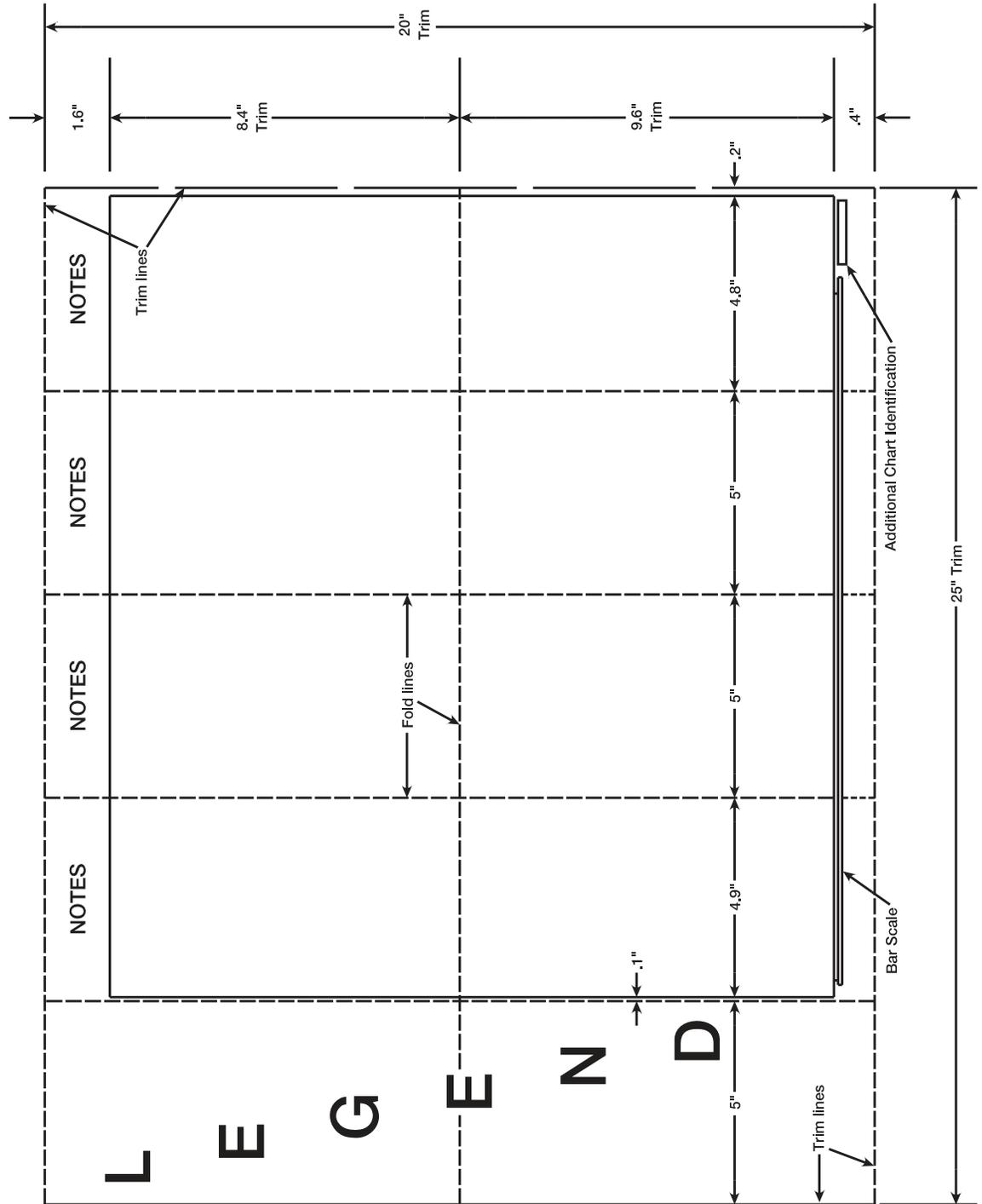
APPENDIX 15
STYLE SHEET - EXTENDED COVERAGE

CHART LAYOUT
EXTENDED COVERAGE



APPENDIX 16
 STYLE SHEET - VFR TERMINAL AREA CHART

CHART LAYOUT
 VFR TERMINAL AREA CHART



APPENDIX 17

SPECIAL USE AIRSPACE - U.S. SECTIONAL CHART

SPECIAL USE AIRSPACE ON DENVER SECTIONAL CHART

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

† Other times by NOTAM.
NOTAM - Use of this term 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, W-WARNING, A-ALERT, MOA-MILITARY OPERATIONS AREA

NUMBER	ALTITUDE	TIME OF USE	CONTROLLING AGENCY/ CONTACT FACILITY	FREQUENCIES
R-2601 A	TO BUT NOT INCL 12,500	0500-2400 MON-FRI † 1 HR IN ADVANCE	DENVER CNTR	128.375 379.95
R-2601 B	12,500 TO BUT NOT INCL 22,500	BY NOTAM 1 HR IN ADVANCE	DENVER CNTR	128.375 379.95
R-2602	TO 1000 AGL	CONTINUOUS	DENVER CNTR	
R-2603	TO BUT NOT INCL 10,000	BY NOTAM 24 HRS IN ADVANCE	DENVER CNTR	
R-5101	TO 12,000	CONTINUOUS	NO A/G	
R-6413	UNLIMITED	BY NOTAM 48 HRS IN ADVANCE	DENVER CNTR	134.5 327.8

A-260	TO 17,500	SR-SS	NO A/G
A-639 A, B	3000 AGL TO 12,000	SR-SS MON-FRI EXC HOL SR-SS SAT-SUN BY NOTAM	NO A/G

Alert Areas do not extend into Class A, B, C and D airspace, or Class E airport surface areas.

MOA NAME	ALTITUDE*	TIME OF USE†	CONTROLLING AGENCY/ CONTACT FACILITY	FREQUENCIES
AIRBURST X	1500 AGL	SR-SS TUE-SAT EXC 2200-0700	DENVER CNTR	128.37 379.95
AIRBURST Y	500 AGL	SR-SS TUE-SAT EXC 2200-0700	DENVER CNTR	128.37 379.95
AIRBURST Z	500 AGL TO BUT NOT INCL 8500	SR-SS TUE-SAT EXC 2200-0700	DENVER CNTR	128.37 379.95
LA VETA HIGH	13,000	0700-1600 MON-FRI EXC HOL	DENVER CNTR	128.375 379.95
LA VETA LOW	1500 AGL TO BUT NOT INCL 13,000	INTERMITTENT BY NOTAM	DENVER CNTR	128.375 379.95
MT DORA NORTH HIGH, WEST HIGH	11,000	BY NOTAM	ALBUQUERQUE CNTR	127.85 285.47 (E) 132.8 346.35 (W)
MT DORA NORTH LOW, WEST LOW	1500 AGL TO BUT NOT INCL 11,000	BY NOTAM	ALBUQUERQUE CNTR	127.85 285.47 (E) 132.8 346.35 (W)
PINON CANYON	100 AGL TO 10,000	0700-2200 MON-SUN INTERMITTENT BY NOTAM	DENVER CNTR	128.375 379.95
SUNNY	12,000	BY NOTAM 24 HRS IN ADVANCE	ALBUQUERQUE CNTR	124.5 306.2

*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.

APPENDIX 18 SPECIAL USE AIRSPACE - ALASKA SECTIONAL CHART

SPECIAL USE AIRSPACE ON FAIRBANKS SECTIONAL CHART

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

† Other times by NOTAM.
 NOTAM - Use of this term 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, W-WARNING, A-ALERT, MOA-MILITARY OPERATIONS AREA

NUMBER	ALTITUDE	TIME OF USE	CONTROLLING AGENCY/ CONTACT FACILITY	FREQUENCIES
R-2202 A, B	TO BUT NOT INCL 10,000	0700-1800 MON-FRI†	ANCHORAGE CNTR	135.3 322.5
R-2202 C	10,000 TO FL 310	INTERMITTENT BY NOTAM	ANCHORAGE CNTR	135.3 322.5
R-2205	TO 20,000	0700-1900 MON-FRI†	FAIRBANKS INTL ATCT	126.5
R-2206	TO 8600	CONTINUOUS	NO A/G	
R-2211	TO FL 310	0800-1800 MON-FRI † FROM USAF	FAIRBANKS INTL ATCT	126.5

MOA NAME	ALTITUDE*	TIME OF USE†	CONTROLLING AGENCY/ CONTACT FACILITY	FREQUENCIES
BIRCH	500 AGL TO BUT NOT INCL 5000	0800-1800 MON-FRI	ANCHORAGE CNTR	135.3 322.5
BUFFALO	300 AGL TO BUT NOT INCL 7000	0800-1800 MON-FRI	ANCHORAGE CNTR	135.3 322.5
DELTA 1	10,000	BY NOTAM DURING MAJOR FLYING EXERCISES	ANCHORAGE CNTR	125.3
DELTA 2	5000	BY NOTAM DURING MAJOR FLYING EXERCISES	ANCHORAGE CNTR	125.3
DELTA 3	3000 AGL	BY NOTAM DURING MAJOR FLYING EXERCISES	ANCHORAGE CNTR	125.3
DELTA 4	7000	BY NOTAM DURING MAJOR FLYING EXERCISES	ANCHORAGE CNTR	125.3
EIELSON	100 AGL	0800-1800 MON-FRI	ANCHORAGE CNTR	135.3 322.5
GALENA	1000 AGL	0800-1800 INTERMITTENT MON-FRI	ANCHORAGE CNTR	127.0 290.2
VIPER A	500 AGL TO 10,000	0700-2200 INTERMITTENT MON-FRI	FAIRBANKS INTL ATCT	126.5
VIPER B	10,000	0700-2200 INTERMITTENT MON-FRI	ANCHORAGE CNTR	133.1 285.4
YUKON 1, 2	100 AGL	0800-1800 MON-FRI	ANCHORAGE CNTR	133.1 285.4
YUKON 5	5000 AGL	BY NOTAM	ANCHORAGE CNTR	132.7 381.6

*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 contact USAF SUAIS or FAA FSS, see SUAIS in Supplement Alaska.

Page Intentionally Left Blank