

CHAPTER 4 REPRODUCTION

4.1 GENERAL

Reproduction of charts in this series shall be by lithography. The final copy shall conform to the best lithographic standards with respect to clearness of copy, conformance to colors specified and accuracy of registration.

4.2 FILES

Files furnished shall be final color-separated and prescreened binary TIFF (1 Bit), suitable for Computer to Plate, plate making.

Files shall be prepared with uniform screen angles in order to reduce moiré effect to a minimum.

Files shall be appropriately identified by chart name, effective date, and color. A Negative Identification List shall be supplied as a guide for plate identity and screening requirements.

Color blocks, when used, shall be outside the trim line.

Individual chart features required on each color separation file are indicated in Section [3.4](#).

4.3 PAPER REQUIREMENTS

Charts shall be printed on Paper Tyger paper (27 lbs. - Super White - Paper Tyger paper - Map Lithograph Finish).

4.4 PRINTING SCREENS AND COLORS

4.4.1 Files, Screens, and Colors

Table 4.1 Files, Screens and Colors

FILES	TONE	COLOR	PMS
Roads	40%/15°/120L	Brown	498
Road Type	Solid	Brown	498
Aero Type	Solid	Brown	498
Nondirectional Radio Beacons (NDBs)	Solid	Brown	498
Sporting Event Temporary Flight Restriction Sites	Solid	Brown	498
National Defense Airspace TFR	Solid	Brown	498
Urban Area	10%/60°/120L	Brown	498
Urban Outline	Solid	Brown	498
International Boundary	25%/30°/120L	Brown	498
Class E	60%/30°/120L	Brown	498
Class C	45%/45°/200L	Brown	498
SUA, Mode C	Solid	Brown	498
Banner	Solid	Blue	Reflex Blue
Banner	30%/15°/150L	Blue	Reflex Blue
Drainage	Solid	Blue	Reflex Blue
Drainage Type	45%/Biangle/200L	Blue	Reflex Blue
Open Water	10%/60°/120L	Blue	Reflex Blue
Class D, Compass Roses	60%/30°/120L	Blue	Reflex Blue
Helicopter Routes	60%/30°/120L	Blue	Reflex Blue
Swamp	45%/Biangle/200L	Blue	Reflex Blue
Class B	Solid	Blue	Reflex Blue
Aero Type, MEF	Solid	Blue	Reflex Blue
Special Security Notice Permanent Continuous Flight Restriction Areas	Solid	Blue	Reflex Blue
SUA, Wildlife Areas	Solid	Blue	Reflex Blue
Projection	Solid	Black	Process Black
Railroads and Boundaries	60%/30°/120L	Black	Process Black
Type	Solid	Black	Process Black
Landmarks	Solid	Black	Process Black
Man-Made Shorelines	Solid	Black	Process Black
Transmission Lines	Solid	Black	Process Black
Class B, Class C, and TRSA Surface Areas	10%/60°/120L	Black	Process Black
Topographic Type	45%/Biangle/200L	Black	Process Black

Table 4.1 Files, Screens and Colors (Continued)

FILES	TONE	COLOR	PMS
Police Zone	60%/30°/120L	Black	Process Black
Banner	30%/45°/150L	Black	Process Black
TRSA	45%/45°/200L	Black	Process Black
Military Training Route Type	Solid	Black	Process Black
Military Training Routes	25%/15°/120L	Black	Process Black
National Security SFRA and TFR	Solid	Green	354U
National Security SFRA and TFR Type	Solid	Green	354U
Special Event Areas	35%/30°/120L	Green	354U
Special Event Area Type	Solid	Green	354U

4.4.2 Screens

All screen angles are measured in degrees, starting with zero at 3 o'clock and progressing counter-clockwise.

4.5 BINDERY INSTRUCTIONS

4.5.1 Trimming

Due to the difference in the area of coverage for each chart, the trim size shall vary.

4.5.2 Folding

Charts shall be folded in vertical panels and horizontal folds, with legends on the outside panels. Folded size shall be approximately 5" x 10".

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