



## **NGA STANDARDIZATION DOCUMENT**

### **DATA PRODUCT SPECIFICATION (DPS)**

**1:50,000 and 1:100,000 Scale**

**Topographic Map (TM) -**

**Annotation Catalog (AC)**

**(2015-06-11)**

**Version 1.0**

**Author:** NGA/Foundation GEOINT Group

**Distribution:** Approved for public release; distribution is unlimited.

**Usage:** This TM DPS Annotation Catalog, along with the TM DPS Portrayal Catalog and TM Data Product Specification, has been approved for use by the NSG Community to produce 1:50,000 and 1:100,000 Scale Topographic Maps.

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## Foreword

The Data Product Specification for Topographic Maps consists of three parts:

- **NGA.STND.0035-1\_1.0\_DPSTM** - The Topographic Map Data Product Specification (TM DPS), which defines the requirements for a Topographic Map product at 1:50,000 or 1:100,000 scale.
- **NGA.STND.0035-2\_1.0\_DPSTMPC** - The Topographic Map Data Product Specification Portrayal Catalog (TM DPS PC), which defines requirements for the portrayal of feature data on Topographic Maps.
- **NGA.STND.0035-3\_1.0\_DPSTMAC** - This Topographic Map Data Product Specification Annotation Catalog (TM DPS AC), which defines requirements for the portrayal of non-feature (marginalia) data on Topographic Maps.

**Note:** *All three of the above documents are required to produce a topographic map product.*

Comments, questions, or suggestions to improve this document should be addressed to the National Geospatial-Intelligence Agency, Foundation GEOINT Group, Standards Branch, Mail Stop N22, 7500 GEOINT Drive, Springfield, VA 22150-7500 or e-mail: **DataProductSpecs@nga.mil**

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# 1 Overview

This Topographic Map Annotation Catalog (TM AC) defines requirements for the portrayal of non-feature data (“metadata”) on a 1:50,000 or 1:100,000 scale Topographic Map.

## 1.1 Annotations within the Cartographic Process

As described in the Topographic Map Data Product Specification (TM DPS), section 12, an Annotation is a graphic presentation of map display metadata (“non-feature data”) upon a cartographic product in order to provide necessary context for the display and comprehension of geographic features.

ISO 19117 defines the overall geographic portrayal process by which *features* are associated with *symbols* via the use of *portrayal rules* and *rule sets*. These symbols, rules and rule sets, along with additional process elements such as generalization and finishing rules, are contained in a Portrayal Catalog - here the Topographic Map Portrayal Catalog (TM PC).

The concept of an Annotation, as developed by NCGIS, extends the geographic portrayal process defined in ISO 19117. While *features* are associated with *symbols* in a Portrayal Catalog, *metadata* elements (about a data product) are associated with *annotation symbols* by the use of *annotation rules* and *rule sets*. The annotation process thus coexists with the geographic portrayal process within the larger cartographic process (see Figure 1).

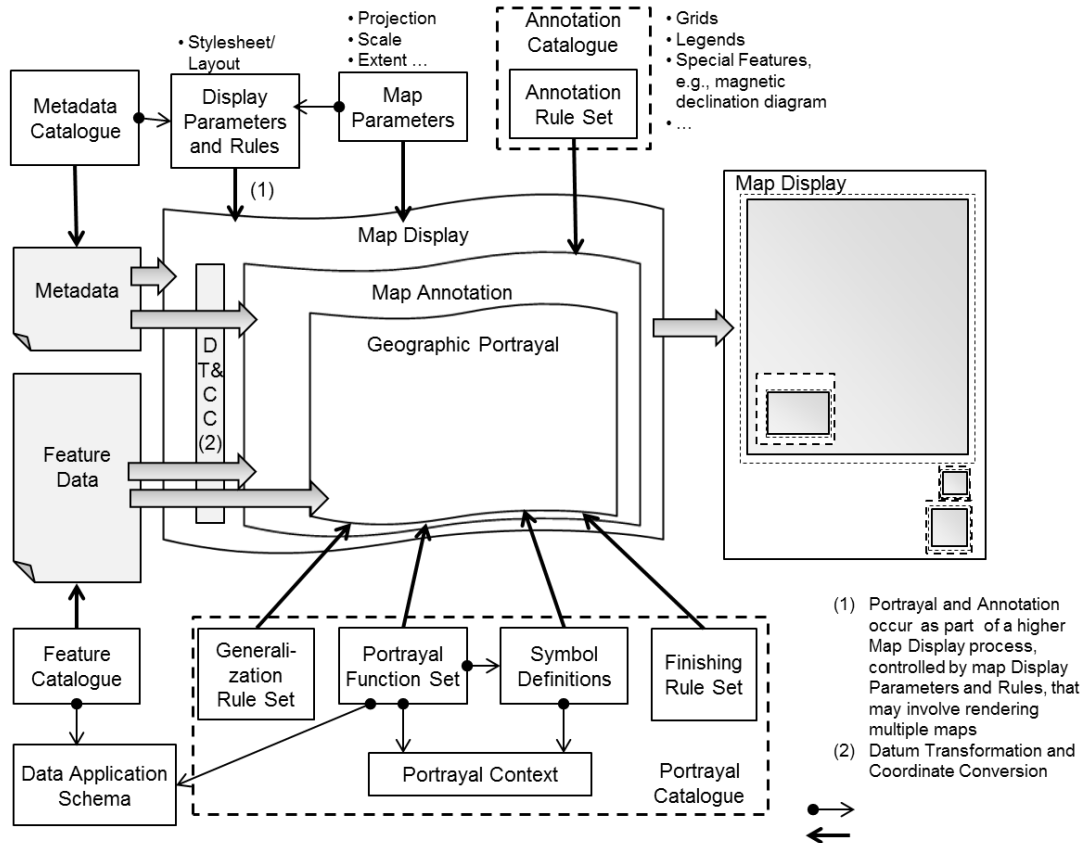


Figure 1. The cartographic process for a complete map display.

Annotations take many forms depending on the contextual elements or metadata they communicate, as well as their placement within, and relationship to, the larger Map Display context.

## 2 Basic principles of annotation

Information is included in the map margin which is necessary for map identification, feature identification, evaluation of map information and its intended purposes, identification of publishing elements, and releasability restrictions.

### 2.1 Design and location

The design of margin items and their locations on the sheet shall be graphically illustrated in Annex B - Style Sheets. There are four style sheets and they are organized as follows:

- Annex B.1 – 1:50,000 Scale, Arrangement “A” – single language/single grid
- Annex B.2 – 1:50,000 Scale, Arrangement “B” – multiple languages/overlapping grid
- Annex B.3 – 1:100,000 Scale, Arrangement “A” – single language/single grid

- Annex B.4 – 1:100,000 Scale, Arrangement “B” – multiple languages/overlapping grid

All four style sheets show the same preferred work limits and paper/trim size. Arrangement A shows the normal size and positioning of margin elements. Arrangement B shows a reduced size of some margin elements in order to adhere to the preferred work limits. However, if necessary, these work limits may be expanded to allow for the inclusion of the normal sized elements in the margin, as well as other items requiring additional space (i.e. extensive glossary, additional “NOTES”, etc.). See TM DPS, section 7.2.3 for further information.

### **2.1.1 Repositioning or deleting of elements**

When necessary, items of smaller areal extent (for example: users note, miscellaneous notes, producer seal, publication note, slope guide, etc.) may be repositioned.

If encountering significant space limitations in the south margin area, the following adjustments may be made (in order of priority): 1) delete the slope guide; 2) convert the grid declination diagram from a large to small diagram (matching the specifications for 2 declination diagram portrayal).

When the margin data cannot be effectively repositioned and the interior of the map includes expanses of open water areas, selected margin items (glossary, grid reference box, miscellaneous notes, slope guide, etc.) may be positioned therein. Remaining items should then be repositioned in the available margin space.

### **2.1.2 Font and style information**

All margin data shall be shown in Zurich Condensed type. Refer to Annex B - Style Sheets for proper color and specific type size, style and case. Use the style sheet as a guide for any items that do not contain exact type specifications.

## **2.2 Language**

When required by international map standardization agreements or bilateral cooperative mapping arrangements, certain margin items shall be translated. The language or languages to be shown, in addition to English, shall be indicated in supplementary instructions for the project.

See Annex B - Style Sheets, Arrangement B for guidance on items in the margin requiring translation. Additional margin items requiring translation shall be specified in supplemental instructions for the project.

Whereas a Topographic Map may show a maximum of three languages, glossaries shall be exempt from this rule.

### **2.2.1 Language presentation sequence**

Except for glossaries, the sequence of presentation of the languages shall be governed by the following guidelines:

- On a series of maps which predominantly cover the territory of only one member country of a treaty organization (for example NATO), the native language shall be listed first, followed by English; a third language, if required, shall be listed last.
- The English language shall be listed first in all other circumstances where additional languages are required.

### **3 Annotation Guidance for Topographic Maps**

This section presents guidance for constructing the annotations that are required or optional for NGA Topographic Maps. It is meant to supplement the detailed specifications found in Annexes A and B – Style Sheets.

#### **3.1 Identification Annotations**

##### **3.1.1 Map Sheet Name**

The name of the map sheet (as defined in the TM DPS, Section 3.2) shall be displayed at the center top of the map display.

###### **3.1.1.1 Presentation of alternate sheet name**

An alternate sheet name spelling (provided it appears in the map interior) is enclosed in parentheses, located immediately following the sheet name.

##### **3.1.2 Map Series Name, Product Name and Scale**

The name of the map series (as defined in the TM DPS, Section 3.14.1.1), followed by the product name “TOPOGRAPHIC MAP” and the scale of the map series (1:50,000 or 1:100,000, as defined in the TM DPS, Section 3.8), shall be displayed at the upper left of the map display.

##### **3.1.3 Identification Banner - Upper**

The title of the map sheet, consisting of the edition designation (preceded by “Edition” and followed by the producer code), the series number (preceded by “Series”), and the sheet number (preceded by “Sheet”; as defined in the TM DPS, Section 3.1), shall be displayed at the upper right of the map display.

##### **3.1.4 Identification Banner - Lower**

At the lower left of the map display, a banner shall be displayed consisting of the following:

- Sheet name, followed by a comma.
- A listing of all country names covered by the map sheet.

- The country containing the feature for which the sheet is named is shown first. Other country names are listed in descending order of their areal extent on the map and are separated by semi-colons.
- In cases where map information has been expurgated, only the remaining country name(s) will be shown.
- When the map covers an area including the domestic United States, it shall be identified by the applicable state name only, i.e. Virginia or Missouri, versus "United States". However, if the map covers both the United States and the bordering countries of Canada or Mexico, it shall be identified by both the state name and the country name. Example:

"El Paso, Texas, United States; Mexico"

- Sheet number.
- Series number.
- Edition designation with producer code.

### 3.1.5 Bar Code Box

The lower right corner of the map display shall contain a bar code box in which are displayed the human-readable and bar code forms of the National Stock Number (NSN) and Edition Number, as well as the NGA Reference Number (see Figure 2).



Figure 2. Sample National Stock Number (NSN), NGA Reference Number (NRN), Edition Number, and bar codes.

Detailed information and portrayal standards for bar codes can be found in MIL-STD-2414A, "Bar Coding for Geospatial Products".

#### 3.1.5.1 National Stock Number

The National Stock Number (NSN) consists of a 13 digit number and is used to uniquely identify the map in the Defense Logistics Information Service (DLIS). For details on the construction of the NSN, see the TM DPS, Section 3.14.4.

The letters "NSN" are shown in front of the human-readable National Stock Number to distinguish it from the NGA Reference Number.

#### 3.1.5.2 NGA Reference Number

The NGA Reference Number (NRN) consists of an alphanumeric designation not to exceed 15 characters. For details on the construction of the NRN, see the TM DPS, Section 3.14.5.

The abbreviation “NGA REF. NO.” is shown in front of the NGA Reference Number. Hyphens, virgules (dashes), commas and spaces are not shown.

### **3.1.5.3 Edition Number**

The Edition Number shall be presented in bar code and in human-readable form. The human-readable presentation shall consist of a 3-digit number and shall be preceded by the abbreviation “ED. NO.”.

For details on the construction and advancement of the Edition Number, see the TM DPS, Section 3.14.3.

### **3.1.6 Producer Seal**

The National Geospatial-Intelligence Agency seal shall be shown on maps prepared by or for NGA.

The NGA seal shall be shown on maps prepared by NGA for another agency or country, unless specific directions to the contrary are stated in supplementary instructions for the project. The seal(s) of other agencies, countries, or mapping organizations may also be shown when stated in supplementary instructions for the project.

### **3.1.7 Publication Annotations**

#### **3.1.7.1 Publication note and credit listings**

##### **3.1.7.1.1 NGA publications**

Each map produced by or for the National Geospatial-Intelligence Agency shall contain the following publication note, to include the production date of the file used to make the map:

Prepared and published in [YYYY] by the National Geospatial-Intelligence Agency

##### **3.1.7.1.2 Cooperative mapping agreements**

When a map is produced under a cooperative mapping agreement, with another agency or country, the note shall be patterned after the following:

Prepared and published in [YYYY] by the National Geospatial-Intelligence Agency  
in cooperation with [Country/Agency concerned]

##### **3.1.7.1.3 Other topographic units/cooperating agencies**

When specified in supplementary project instructions, credit shall be given to other topographic units and cooperating agencies for their contributions to certain phases of a mapping project.

#### **3.1.7.2 Users note**

Each map shall contain a “users note” that provides information to users on how to contact the map producer for corrections, additions or comments. A sample “users note” may read:

“Users should refer corrections, additions and comments for improving this product to:  
<insert contact information here>.”

The contact information for the map producer is subject to change more frequently than this specification; accordingly, the wording of the users note may also be subject to change. Refer to current guidance and/or supplementary project instructions for the text of this note.

### **3.1.7.3 Printing/plotting note**

A note identifying the agency which printed or plotted the map shall be shown along with the respective month and year. It shall be placed at the bottom of the geodetic information and composite notes.

#### **3.1.7.3.1 DLA printed/plotted maps**

For maps printed or plotted by the Defense Logistics Agency (DLA), the note shall be shown as follows:

PRINTED/PLOTTED BY ..... DLA 06-12

#### **3.1.7.3.2 Maps printed/plotted by another agency**

For maps printed or plotted by another agency or organization, the note shall be shown as follows:

PRINTED/PLOTTED BY ..... [PRINTING AGENCY NAME] 06-12

### **3.1.7.4 Copyright note**

A copyright note shall be applied to the map when required by the producing country. The date for the copyright note shall match the year in the Publication note (see section 3.1.7.1). The note shall be placed at the bottom center of the margin directly under the users note. A sample copyright note may read:

©COPYRIGHT [YYYY] BY THE UNITED STATES GOVERNMENT  
NO COPYRIGHT CLAIMED UNDER TITLE 17 U.S.C.

## **3.2 Security Classification Annotation**

### **3.2.1 Classification marking**

For maps classified CONFIDENTIAL or higher, the degree of classification of the map (see the TM DPS section 3.10.1) shall be shown in two locations on the map display:

- In the upper right margin, centered between the map sheet name and edition number;
- In the lower right margin below the declination diagram(s).

#### **3.2.1.1 Downgrading/declassification note**

Each map bearing a security classification marking shall also bear a downgrading/declassification note. This shall be shown below the classification marking in the lower right margin.

### **3.2.1.2 Restricted Dissemination/LIMITED DISTRIBUTION note**

If a Restricted Dissemination or LIMITED DISTRIBUTION Note is required on an unclassified map of an area outside the United States, this note shall be shown instead of the classification marking in the lower right margin.

### **3.2.1.3 Caveat or Special handling notes**

If a Caveat or Special Handling Note applies, this note shall be shown below the classification or restricted dissemination marking in the lower right margin.

### **3.2.1.4 Classification note printing color**

The security classification and restricted dissemination notes are printed in Dk-Brown 1815 (“red-brown”).

## **3.3 Georeferencing Annotations**

### **3.3.1 Geodetic information**

#### **3.3.1.1 Geodetic information and composite notes**

Identification of the ellipsoid, projection, grid(s) and datums used on a map (as specified in the TM DPS section 5.1) shall be included in a geodetic information composited note in the margin.

#### **3.3.1.2 Horizontal datum note**

The horizontal datum used on the map shall be denoted in large Dk-Brown1815 text in the lower right margin below the declination diagram(s).

#### **3.3.1.3 Declination diagram(s)**

A declination diagram(s) showing magnetic, grid and true north information specific to the map shall be portrayed in the margin. The information for this diagram shall be derived from the latest isogonic data for a standard epoch; i.e., a year that is divisible by five, such as 2010, 2015, etc. When a map contains more than one grid, a reduced size diagram shall be shown for each respective grid zone.

Detailed specifications pertaining to the composition and portrayal of declination diagrams are contained in Annex B – Style Sheets, section B.6.

#### **3.3.1.4 Grid reference box**

A grid reference box showing the grid zone designation(s) and 100,000m square identifiers specific to the map, as well how to read and report a UTM grid reference, shall be portrayed in the margin.

### 3.3.1.5 Grid and graticule values/information

Grid values, graticule values, 100,000m square ID's (when applicable) and grid zone designations (when applicable) shall be labeled according to Annex B - Style Sheets.

All grid and graticule values along the neatline shall be positioned so that they are centered to the line or tick they are referencing. In cases of overprints, the graticule values take precedence and shall not be moved off of center. Grid values may be moved laterally or vertically in order to avoid overprinting graticule values.

See also Annex B.9 for portrayal and labeling requirements of when a grid zone junction is contained within the map extent.

### 3.3.1.6 Latitude and longitude equivalency notes

Notes providing the equivalency of one second of latitude and one second of longitude in meters shall be portrayed along all four sides of the sheet neatline.

### 3.3.1.7 Geodetic information for insets

Certain basic geodetic information representing an inset area shall be portrayed in the lower margin of the inset box, even if it is the same as the primary map information.

#### 3.3.1.7.1 Inset grid note

Identification of the grid(s) used for an inset area shall be included in a note. The full grid zone designation (grid zone number and latitude band letter) shall be used in the inset grid notes.

#### 3.3.1.7.2 Inset declination information

In lieu of declination diagrams, grid to magnetic and grid to true north information for the inset area shall be included in notes. Example:

GRID TO MAGNETIC DECLINATION FOR 2010 IS  $1\frac{1}{2}^{\circ}$  (30 MILS) WESTERLY OVER THE ENTIRE INSET

GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS  $1^{\circ}54'$  (34 MILS) EASTERLY

When an inset area has a major and minor grid zone or two major grid zones, the grid to magnetic and grid to true north information for both zones are combined into one note respectively. Example:

GRID TO MAGNETIC DECLINATION FOR 2010 IS: ZONE 37Q IS  $9\frac{1}{2}^{\circ}$  (170 MILS) WESTERLY; ZONE 38Q IS  $5\frac{1}{2}^{\circ}$  (100 MILS) EASTERLY OVER THE ENTIRE INSET.

GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS: ZONE 37Q IS  $1^{\circ}37'$  (29 MILS) EASTERLY; ZONE 38Q IS  $1^{\circ}43'$  (31 MILS) WESTERLY.

3.3.1.7.3 Inset 100,000-meter square identification

The 100,000-meter square identification(s) covering the inset area shall be included in the interior of the inset.

3.3.1.7.4 Inset grid and graticule values/information

Grid values, graticule values, and 100,000-meter square identification(s) of the inset area shall be labeled according to Annex B - Style Sheets.

3.3.1.7.5 Inset grid zone

If an inset area falls outside of the grid zone of the map proper, all corresponding grid lines, overlapping grid ticks and grid values shall be portrayed per the grid zone covering the inset.

**3.3.2 Scale note and bar scale**

**3.3.2.1 Scale note**

The scale note is a representative fraction which gives the ratio of a map distance to the corresponding distance on the Earth’s surface. The scale 1:50,000 indicates that one unit of measure on the map equals 50,000 units of the same measure on the ground. The scale 1:100,000 indicates that one unit of measure on the map equals 100,000 units of the same measure on the ground. The scale note shall be displayed in the lower margin, centered below the map interior and above the standard bar scales, as in Figure 3.

**3.3.2.2 Bar scale**

Bar scales are graphic expressions of the map scale which provide means for making measurements. A combination of three bar scales, consisting of kilometers, statute miles and nautical miles units of measure, shall be established with the zero points of the bar scales vertically aligned. The bar scales shall be displayed in the lower margin, centered beneath the scale note, as in Figure 3.

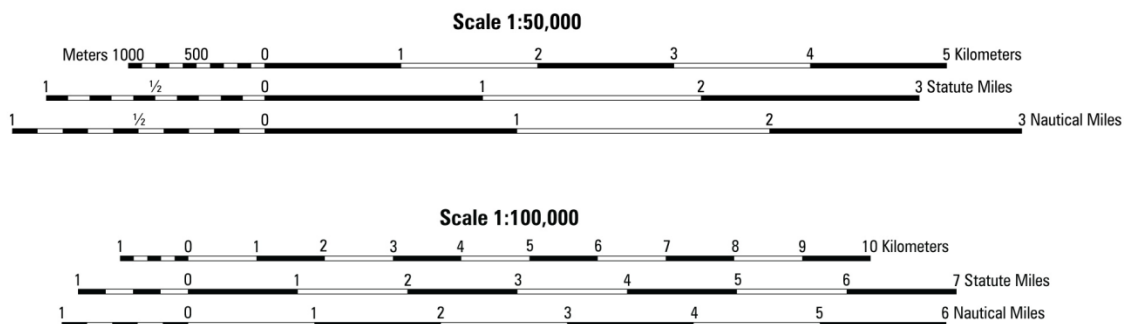


Figure 3. Scale note and representative bar scales.

### 3.3.2.3 Scale verification note

The following note, which provides an exact measurement that can be used to verify proper plotting or printing scale of the map, shall be placed near the bar scale:

For a 1:50,000 TM:

"TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 10,000 METERS (10 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS (7.87 INCHES)."

For a 1:100,000 TM:

"TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 20,000 METERS (20 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS (7.87 INCHES)."

### 3.3.3 Unit of elevation note

The unit of elevation note shall give the unit of vertical measure and shall read:

ELEVATIONS IN METERS

The unit of elevation note shall be displayed in the lower margin of the map display, centered under the bar scales.

### 3.3.4 Elevation contour information notes

An elevation contour information note shall give the elevation difference between successive intermediate elevation contour lines. The note shall further indicate, when applicable, the use of supplementary (auxiliary) elevation contours and combinations thereof.

The elevation contour information note shall be displayed in the lower margin of the map display, centered under the unit of elevation note.

Examples of various conditions and the appropriate notes are given below:

#### 3.3.4.1 Intermediate elevation contour interval note

The elevation contour interval note for the intermediate elevation contours shall read:

CONTOUR INTERVAL 20 METERS

#### 3.3.4.2 Supplementary (auxiliary) elevation contour interval note

When the map contains one-half supplementary (auxiliary) elevation contours, the interval notes shall read:

CONTOUR INTERVAL 20 METERS  
SUPPLEMENTARY CONTOURS 10 METERS

When the map contains one-half and one-quarter supplementary (auxiliary) elevation contours, the interval notes shall read:

CONTOUR INTERVAL 20 METERS  
SUPPLEMENTARY CONTOURS AT 10 AND 5 METERS

### 3.3.4.3 Maximum elevation note

If the highest elevation on a map is lower than the elevation contour interval specified for the map series, or for the surrounding maps, the following note shall be shown in lieu of the elevation contour interval note (while matching the type specifications):

MAXIMUM ELEVATION 9 METERS

### 3.3.4.4 No elevation contours note

When no elevation contours fall on a sheet because the range of elevation is within the elevation contour interval, the value of the elevation contours between which the elevation of the sheet falls shall be included in a note. The note shall be shown in lieu of the elevation contour interval note (while matching the type specifications) and be patterned after the following:

THE TERRAIN ON THIS MAP IS BETWEEN 1040 AND 1060 METERS ABOVE MEAN SEA LEVEL

## 3.3.5 Slope guide

### 3.3.5.1 Slope guide diagram

A Slope Guide (diagram) shall be shown for ascertaining terrain slope graphically as a percentage and as a gradient (degree). The range of the guide shall be from 5 percent (2.9°) to 15 percent (8.5°).

The slope guide shall be displayed in the lower right margin of the map display.

### 3.3.5.2 Slope guide in flat areas

The slope guide shall not be shown on a map that does not contain slopes greater than 5 percent. In this case, a note shall be shown in the miscellaneous “NOTES” section that reads:

SLOPES ON THIS MAP ARE LESS THAN 5%.

### 3.3.5.3 Content of slope guide diagram

The guide shall consist of 11 horizontal lines (5 percent through 15 percent) and 6 vertical lines (representing a span of 6 elevation contours). The intersections of these lines shall communicate the distances at the scale of the map between elevation contours for the given percent (degrees).

### 3.3.5.4 Slope guides for varying scale and elevation contour interval

Standard slope guide diagrams shall be based on the scale and elevation contour interval shown on the map. As an example, the slope guide for a 1:50,000 scale map with 20 meter elevation contour interval/1:100,000 scale map with 40 meter elevation contour interval is shown in Figure 4. All 4 possible variations of slope guides for 1:50,000 and 1:100,000 scale maps are shown in Annex B – Style Sheets, section B.8.

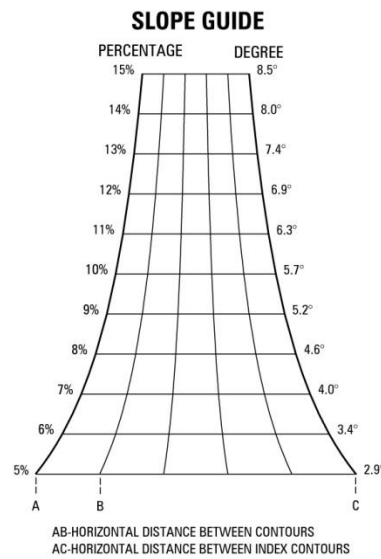


Figure 4. Sample slope guide.

## 3.3.6 Secondary (reference) map annotations

### 3.3.6.1 Adjoining sheets diagram

The adjoining sheets diagram shall consist of as many rectangles, representing adjoining sheets, as are necessary to surround the rectangle which represents the sheet under consideration (which is accentuated by a heavy line). All represented sheets shall be identified by their sheet numbers. Adjacent sheets within the same series, whether published or planned, shall be represented. Geographic coordinates of the represented sheets shall not be shown.

The adjoining sheets diagram shall be displayed in the lower right margin of the map display.

The diagram usually contains nine rectangles, but the number may vary depending on the locations of the adjoining sheets. In all instances, the entire limits of any adjoining sheet containing a landmass shall be represented (Figure 5 and Figure 6). When the sheet under consideration adjoins an open water area, the diagram (Figure 7) shall be shown in the same overall size as for a nine-sheet representation. The diagram may not necessarily be symmetrical as in Figure 9.

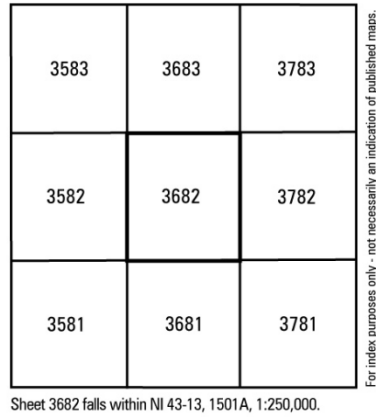


Figure 5. Sample 1:100,000 nine sheet diagram (including notes).

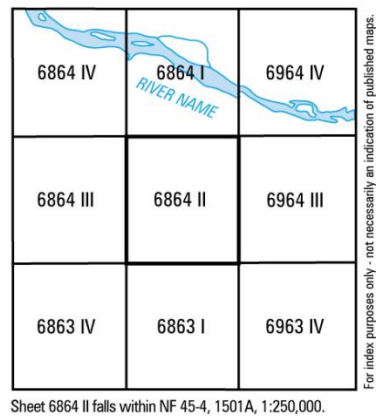


Figure 6. Sample 1:50,000 nine sheet diagram (including notes).

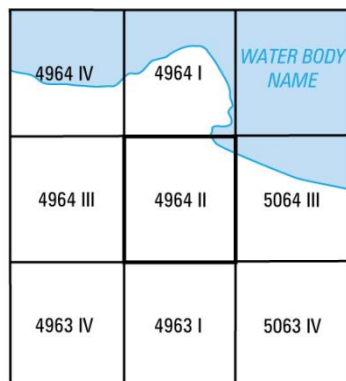


Figure 7. Sample 1:50,000 nine sheet diagram with adjoining open water.

### 3.3.6.1.1 Depiction of administrative boundaries, hydrography and islands

Administrative boundaries, tidal water bodies, major rivers, major inland water bodies and islands shall be represented in the diagram. The prime consideration for including these features is the value they afford for the relative geographic location of the sheets. Because of the small scale of the diagram, delineations of the features shall be generalized.

#### 3.3.6.1.1.1 Administrative boundaries and names

Administrative (international and equivalent) boundaries appearing in the adjoining sheets diagram shall be symbolized in accordance with Annex B - Style Sheets. Country names shall be shown centered within the areas defined and aligned parallel to the bottom work limits. Boundary symbols and sheet lines should be broken to avoid conflict with country names, sheet numbers or series number identification. If there are no administrative boundaries within the adjoining sheets diagram, the country name shall not be shown.

#### 3.3.6.1.1.2 Other lines of separation

In certain areas, information concerning other lines of separation, etc., may be included in the diagram. When required, the boundaries data and descriptive type may be shown within the diagram printed in Dk-Brown 1815 ("red-brown"); related notes may be positioned to the left of the Boundaries diagram and are printed in Dk-Brown 1815 ("red-brown"). The appropriate boundaries, their labels, and related notes to be used shall be specified in supplementary instructions for the project. See Annex B - Style Sheets for specifications of boundaries diagram items.

#### 3.3.6.1.1.3 Hydrography and islands

Space permitting, the names of major rivers and major bodies of water shall be shown to aid the map user in locating the geographical region portrayed (excluding those features that are already named within the map interior). Because of the small scale of the diagram, delineations of the features shall be generalized. When a river plots 0.5 mm or wider at the scale of the diagram it shall be shown with a surface river symbol. Islands that plot less than 0.5 mm wide at the scale of the diagram shall not be shown. All hydrologic persistence attribution [ZIO24\_HYP] and land water boundary symbolization of the main map's hydrography shall be represented in the guide. Features such as salt flats, sabkhas, land subject to inundation, glaciers, snow/ice fields, etc. shall not be portrayed in the diagram.

### 3.3.6.1.2 Portrayal of sheets of adjoining or overlapping series

Sheets of an adjoining or overlapping series (Figure 8 and Figure 9), whether published or planned, that are within the same scale range shall be represented by dashed lines. The series number(s) of the adjoining series shall be indicated along the appropriate side of the division line between their series. The series number of the map itself is not shown in the diagram.

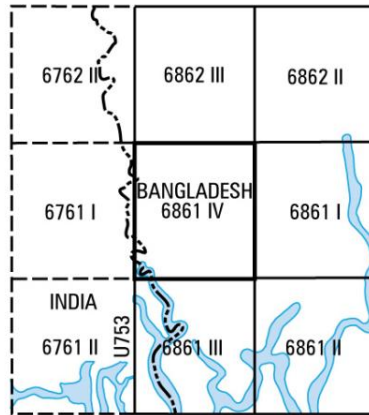


Figure 8. Adjoining series diagram.

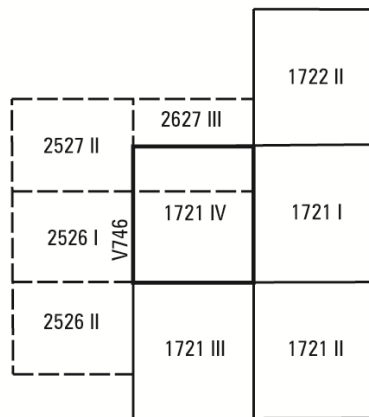


Figure 9. Adjoining or overlapping series diagram.

### 3.3.6.1.3 Portrayal of absence of adjoining sheets

If a land area adjoins the series of the sheet being represented and no series exists or is planned for the area at the same scale, no attempt shall be made to show hypothetical sheet lines (see Figure 10).



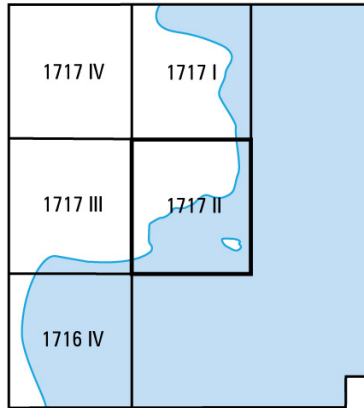


Figure 12. Irregular shaped diagram.

### 3.3.6.1.5 Insets on sheet diagrams

Insets which are shown on sheets to be included in the diagram shall also be represented.

#### 3.3.6.1.5.1 Sheet diagram with inset within

When the true geographic location of the inset area and the sheet containing the inset are both included within the limits of the diagram (Figure 13), the inset area shall be shown in its true geographic location within the diagram. An identical representation of the inset area shall also be shown in the sheet containing the inset within the diagram. An arrow shall be shown pointing from the geographic location to the position of the inset on the applicable sheet.

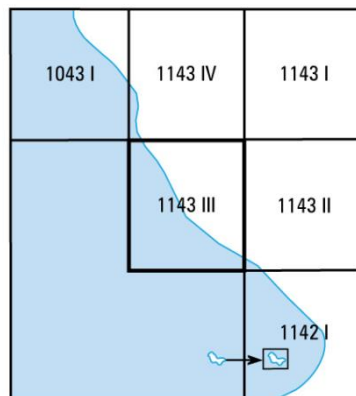


Figure 13. Inset area moved to sheet within diagram.

### 3.3.6.1.5.2 Inset beyond sheet diagram

When the true geographic location of the inset area is beyond the limits of the diagram, the inset (Figure 14) shall be shown in the sheet containing the inset within the diagram. An arrow shall be shown pointing from the general geographic location of the inset area to the inset on the applicable sheet.

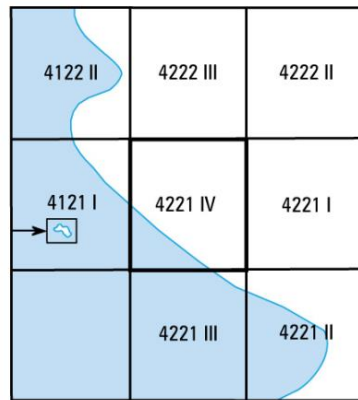


Figure 14. Inset area outside diagram moved to sheet within diagram.

### 3.3.6.1.5.3 Inset on sheet outside the sheet diagram

When the true geographic location of the inset area is within the limits of the diagram, but the sheet containing the inset is not, the inset area shall be shown in its true geographic location within the diagram (Figure 15). An arrow shall be shown pointing from the geographic location of the inset area in the direction of the sheet containing the inset.

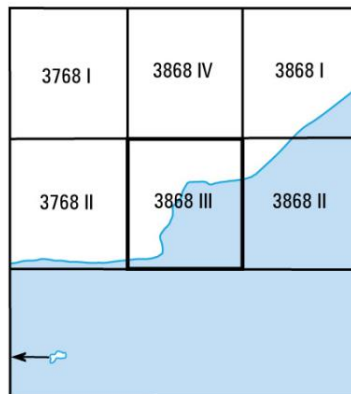


Figure 15. Inset area moved to sheet outside diagram.

### 3.3.6.1.6 Overlapping map sheets in sheet diagram

When one sheet overlaps another (Figure 16), the sheet which is nearest to the normal position in the diagram shall be represented by full lines. The area of overlap of the second sheet shall be shown by dashed lines.

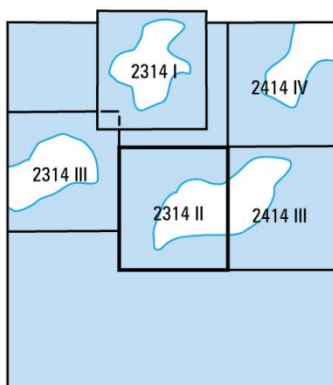


Figure 16. Diagram with overlapping sheets.

### 3.3.6.1.7 Exceptions to standard nine-sheet diagram

Circumstances will arise where the normal nine-sheet diagram is not practical for the portrayal of the relationship of the sheet under consideration to the other sheets. This condition may occur when the sheet under consideration contains all or part of a group of islands and it is desirable to reflect the relative position of all islands in the group, or is part of a group of sheets which cover a region which is peninsular in shape.

Under these and similar circumstances the diagram may be shown at a reduced scale and may include the representation of as many sheets as is necessary to reflect the relationship of the sheet under construction to the surrounding sheets. A common diagram may be shown on all sheets concerned, with the sheet under consideration accentuated by a heavy line (Figure 17).

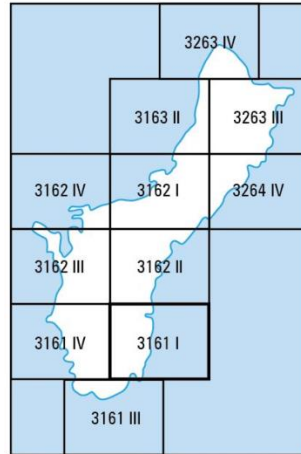


Figure 17. Exceptions to nine-sheet diagram.

### 3.3.6.1.8 Expurgated areas and sheets

Examples of adjoining sheets diagrams containing expurgated areas and sheets are shown in Figure 18. Series number(s) of an adjoining or overlapping series in an expurgated area (country) shall not be shown. Sheet lines and sheet number(s) for sheets completely within an expurgated area shall not be shown. The name(s) of the expurgated countries shall be shown, along with the outer limit line of a standard adjoining sheets diagram (non-dashed). Tidal water and the shoreline between tidal water areas and the expurgated land area shall be shown.

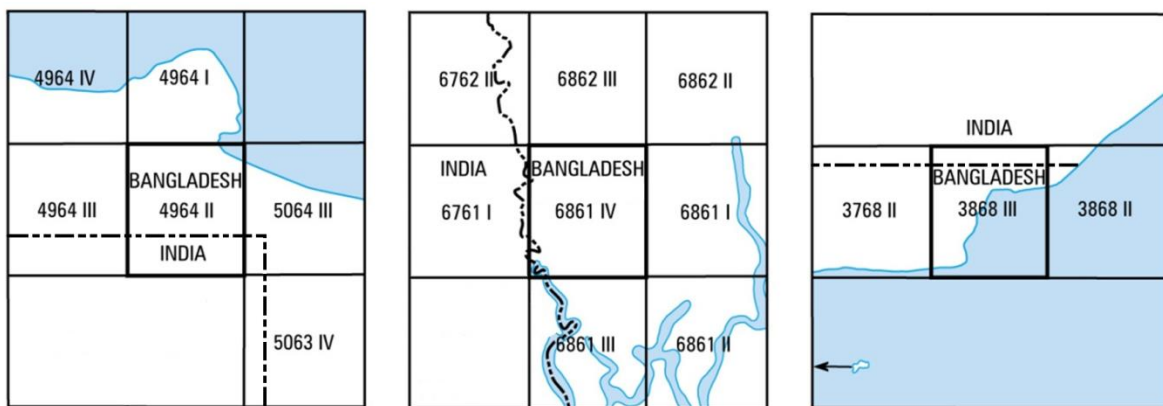


Figure 18. Expurgated areas and sheets in diagram.

### 3.3.6.1.9 JOG-A note

A note shall be centered under the adjoining sheets diagram identifying the 1:250,000 scale Joint Operations Graphic-Air (JOG-A) series 1501A sheet(s) covering the 1:50,000 or 1:100,000 scale sheet (see Figure 5). Example:

Sheet 2890 II falls within NL 34-1, 1501A, 1:250,000.

### 3.3.6.1.10 'For index purposes only' note

The note "For index purposes only - not necessarily an indication of published maps." shall be placed vertically along the right side of the adjoining sheets diagram (see Figure 5).

## 3.3.6.2 Boundaries diagram

The boundaries diagram (Figure 19) illustrates the boundary information of the map. The diagram shall include the administrative boundaries, administrative divisions and geopolitical entities which appear on the map. A boundary disclaimer note shall also be included where applicable (see section 3.4.1.1).

The boundaries diagram shall be displayed in the lower right margin of the map display, adjacent to the adjoining sheets diagram.

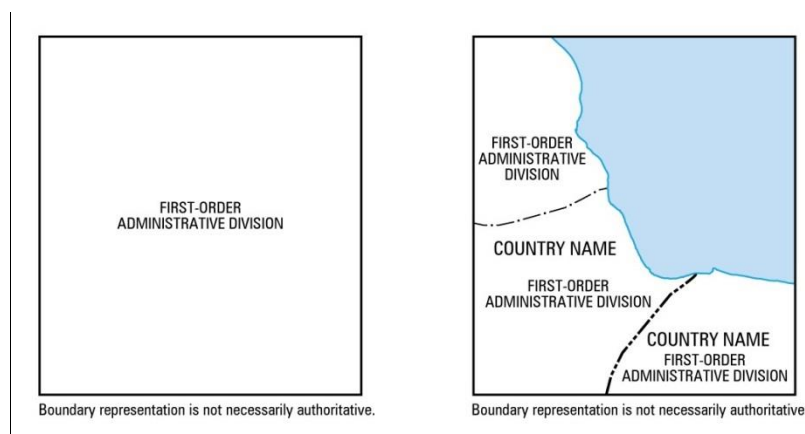


Figure 19. Boundary diagrams.

### 3.3.6.2.1 Administrative boundaries and divisions

When possible, administrative boundaries and divisions should be labeled within the diagram as shown in Figure 19.

#### 3.3.6.2.1.1 Country names in boundary diagram

If the sheet contains more than one country name, the names shall be shown in the diagram with capital letters. When the map falls within one country, the country name shall be omitted from the diagram.

### 3.3.6.2.1.2 Administrative subdivision names in boundary diagram

Names of other administrative subdivisions shall be placed within their areas of the diagram.

### 3.3.6.2.1.3 Administrative division names when no boundaries fall within map sheet

If no boundaries occur within the limits of the map, the names of the administrative divisions covering the sheet shall be centered in the diagram in descending order of importance.

### 3.3.6.2.2 Alternative treatment

On sheets where the above treatment is not feasible due to space constraints, administrative divisions and country names may be listed to the left of the diagram and keyed by letters and numbers to the diagram (see Figure 20). The first-order administrative divisions shall be keyed with capital letters. Further administrative breakdowns shall be keyed consecutively by Arabic numerals and by lower case letters. Letter and number designations shall not be repeated. The entire listing shall be arranged in a logical manner with lesser administrative divisions indented below their respective higher administrative divisions.

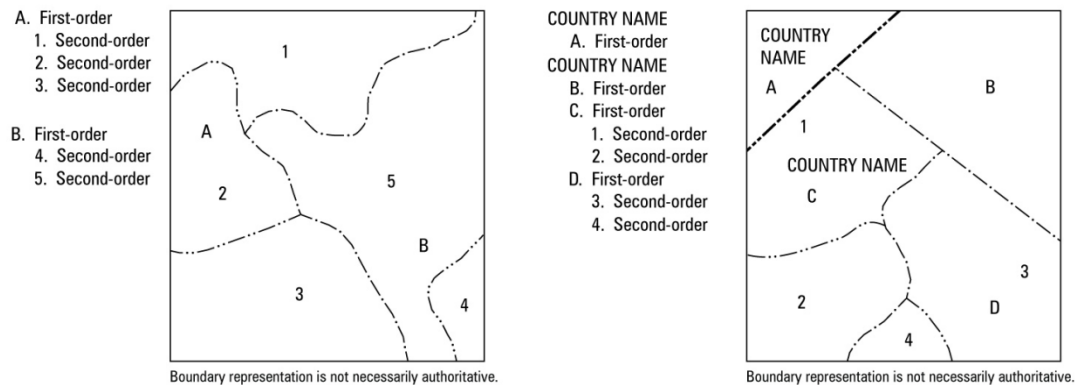


Figure 20. Alternate boundary diagrams.

### 3.3.6.2.3 Approximate boundaries

Where source material is insufficient to permit delineation of an approximate boundary, no boundary shall be shown in the Boundaries diagram. An appropriately worded note explaining the condition shall be shown in lieu of the normal boundary disclaimer note under the Boundaries diagram (while matching the type specifications). Example:

Boundary between Provincia de Estramadura and Provincia de Ribatejo omitted since location cannot be determined.

#### 3.3.6.2.4 Expurgated areas

If any portion of the map contains areas that are expurgated, the Administrative Division boundaries and associated names in the expurgated area shall not be shown. The name(s) of the expurgated countries shall be shown. Tidal water and the shoreline between tidal water areas and the expurgated land area shall be shown.

#### 3.3.6.2.5 Third-order administrative division boundaries

Third-order administrative division boundaries shall be shown only when specified in supplementary instructions for the project.

#### 3.3.6.2.6 Other lines of separation

In certain areas, information concerning other lines of separation, etc., may be included in the diagram. When required, the boundaries data and descriptive type may be shown within the diagram printed in Dk-Brown 1815 ("red-brown"); related notes may be positioned to the left of the diagram and are printed in Dk-Brown 1815 ("red-brown"). The appropriate boundaries, their labels, and related notes to be used shall be specified in supplementary instructions for the project. See Annex B - Style Sheets for specifications of boundaries diagram items.

#### 3.3.6.2.7 Hydrography and islands

Tidal water bodies, major rivers, major inland water bodies and islands shall be represented in the diagram. The prime consideration for including these features is the value they afford for the relative geographic location of the boundaries. Names of these features are not required since they already appear in the map under consideration. Because of the small scale of the diagram, delineations of the features shall be generalized. When a river plots 0.5 mm or wider at the scale of the diagram, it shall be shown with the surface river symbol. Islands that plot less than 0.5 mm wide at the scale of the diagram shall not be shown. All hydrologic persistence attribution [ZIO24\_HYP] and land water boundary symbolization of the main map's hydrography shall be represented in the guide. Features such as salt flats, sabkhas, land subject to inundation, glaciers, snow/ice fields, etc. shall not be portrayed in the diagram.

### 3.3.6.3 Elevation guide diagram

The elevation guide (Figure 21) is designed to provide a rapid evaluation of general landforms and to accentuate the highest and lowest terrain on a map. The guide includes selected elevation bands, spot elevations, and hydrographic features. The guide shall be constructed on a sheet-by-sheet basis. No effort shall be made to match or tie the drainage or elevation bands shown on the elevation guides of adjoining sheets. The guide is not intended to be a stand-alone map.

The elevation guide diagram shall be displayed in the lower right margin of the map display.

A proportional turnback of the elevation band line(s) in the guide, matching the appearance of the elevation contour turnbacks in the map face, is desirable. Tint band areas shall be  $\geq 2.5\text{mm}$  in diameter/minimum dimension.

The guide's shape and proportions shall match the base map. If the base map contains departures from standard sheet lines (extensions, border breaks and insets) those shall be mirrored in the Guide. Extensions or border breaks  $\leq 1.2\text{mm}$  at guide scale may not be shown.

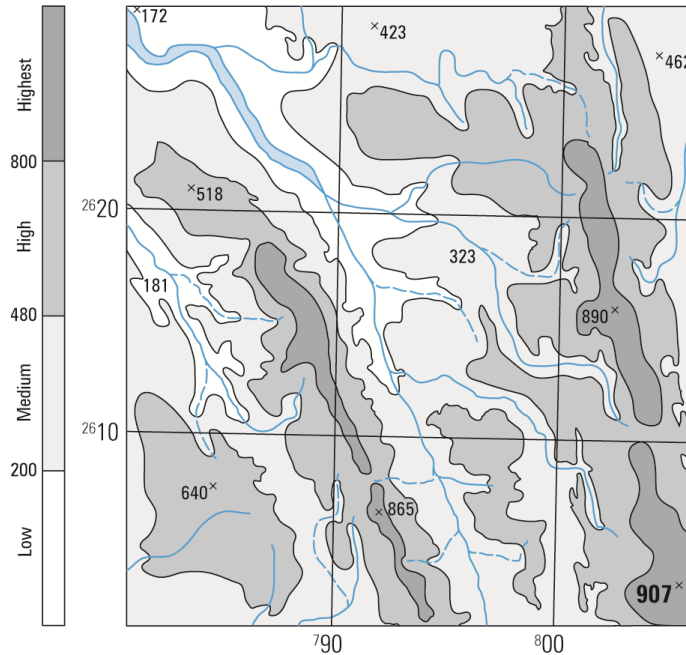


Figure 21. Sample elevation guide.

### 3.3.6.3.1 Hydrography and islands

The diagram shall include tidal water bodies, rivers, inland water bodies and islands. Sufficient hydrography shall be shown to enhance the portrayal of the landforms. Arid and polar hydrographic features such as salt flats, sabkhas, glaciers, and snow/ice fields may be shown in the absence of other hydrographic features. At a minimum, all hydrography shown in the boundaries diagram shall be shown in the elevation guide diagram; additionally, other hydrographic features shall be added to point out high areas and land slopes. It is not necessary to depict the drainage lines to the “top” of the relief shown by the elevation bands. All hydrologic persistence attribution [ZI024\_HYP] and land water boundary symbolization of the main map's hydrography shall be represented in the guide.

### 3.3.6.3.1.1 Rivers

Rivers which plot greater than 0.5 mm wide at the scale of the diagram shall be shown with the surface river symbol. Rivers whose length at main map scale is less than 125 mm shall not be shown. Disappearing and dissipating stream symbols shall not be shown.

### 3.3.6.3.1.2 Islands

Islands which plot less than 0.5 mm wide at the scale of the diagram shall not be shown.

### 3.3.6.3.1.3 Inland water bodies

Inland water bodies which plot less than 2.5 mm in diameter or/minimum dimension shall not be shown.

### 3.3.6.3.2 Elevation bands

Elevation bands shall be selected so that the high ground is immediately evident. The bands shall be selected at intervals to permit the best representation of the landforms. The depiction of the elevation band lines should avoid excessive character or generalization.

#### 3.3.6.3.2.1 Selection of elevation bands

Guidance for selection of the limiting elevation band lines and the number of elevation bands is provided in Table 1. The number of elevation bands that shall be shown is based on the difference in elevation between the lowest and highest point of the sheet.

Range of Elevation	100m. and less	100- 600m.	600m and more
Number of Elevation Bands	None *	3	4

\* Two elevation bands may be necessary to point out land slope.

Table 1. Table for determination of the number of elevation bands to be shown.

#### 3.3.6.3.2.2 Area coverage of elevation bands

The elevation bands should be sufficiently wide to lend some significance to the overall landforms. Table 2 is provided to assist in the selection of the area coverage of the elevation bands, and is used primarily in areas of uniform slope and rugged relief. Consideration should be given to all components of elevation, including spot elevations, when compiling the guide.

The figure shall not apply to sheets containing large valley floors, coastal plains or extensive low and flat areas. In such cases, the limit of the low area shall be the elevation band which includes the greatest portion of the area. In effect, the low area might constitute 50 percent of the map. In this situation, the

number of bands may be reduced to 2 even if the elevation range calls for 3 or 4 bands. Similar treatment shall be applied when selecting the elevation band lines for extensive plateaus. A tint band bounding line shall not be shown coincident with a land water boundary or inland water body.

Number of Elevation Bands	% Area Ratio			
	Low	Medium	High	Highest
2	60	—	40	—
3	30	40	30	—
4	20	30	30	20

Table 2. Percent area ratio for elevation bands.

### 3.3.6.3.2.3 Elevation band index

An index identifying the applicable elevation band tints shall be shown to the left of the diagram. The elevation values representing the limiting line between each band shall be shown with the index.

### 3.3.6.3.3 Spot elevations in the elevation guide diagram

Spot elevations shall be extracted from the map interior and included in the diagram to augment the terrain presentation. The highest and lowest elevations on the sheet plus the highest of major relief formations shall be shown. It is not necessary to place a spot elevation in each elevation tint band.

#### 3.3.6.3.3.1 Water surface elevations

Where the information is available and the area of an inland water body is sufficiently large to accommodate the type, water surface elevations may be shown. The values shall be the same size and style of type as is used for the spot elevations but are shown in cyan.

#### 3.3.6.3.3.2 Snow/Ice area elevations

Important spot elevations located in snow/ice areas may be shown. The values shall be the same size and style of type as is used for the spot elevations but are shown in cyan.

#### 3.3.6.3.3.3 Elevation values and limiting elevation band lines

The limiting elevation band lines shall be broken for overprinting elevation values.

#### 3.3.6.3.3.4 Below sea level elevations

Below sea level elevations shall be preceded by a minus sign (e.g., -10).

#### 3.3.6.3.3.5 Maximum number of spot elevations

A maximum of ten spot elevations, including the highest and lowest spot elevations, may be shown in the diagram. All spot elevations shown in the diagram shall be on the map.

#### 3.3.6.3.4 Insignificant relief

When the range of elevation is insignificant, generally less than 50 meters, the elevation guide shall show only selected spot elevations and drainage patterns; the index of elevation bands shall not be shown.

- In flat coastal plains where there are no pronounced landforms, it is not required to add additional elevations in the elevation guide. The prime purpose of the elevation guide is to point out to the user major relief forms and the highest areas on the sheet. The value of the guide is reduced in the flat areas where the slope of the land is evident on the map.
- In flat coastal and delta areas, when the highest point's location cannot be determined because of lack of relief, it is not required to show any spot elevations in the elevation guide.

#### 3.3.6.3.5 Incomplete or unreliable relief

On sheets having areas of incomplete relief, the elevation guide shall be treated in the following manner:

- For sheets having small areas of incomplete relief information, an effort should be made to complete the tint bands by logically extending the limiting lines across these areas. The bands should never be extended where they would possibly misrepresent the actual landforms.
- For sheets having large areas of incomplete relief information, the tint bands shall be omitted when the limiting lines are not readily interpretable or when the tints would not portray the landforms and their relative heights. The limits of the area shall be delineated within the elevation guide with a black dashed line 1.0 mm in length, 0.3 mm space, and 0.1 mm line weight.
- Incomplete or unreliable relief areas should not be considered in the areal percentage computation figures in the determination of the number of elevation bands shown in the guide.

#### 3.3.6.3.6 Grid lines

To aid in referencing points in the diagram to points on the map, the 10,000 meter lines of the major UTM grid shall be included in the diagram (including expurgated areas). The lines are labeled on the west and south sides of the diagram. Grid lines are not required within inset areas.

#### 3.3.6.3.6.1 Expurgated areas

The elevation bands shall be calculated for the entire sheet. However, elevation data, spot elevations, and hydrography shall not be shown for expurgated areas. A 0.15 mm solid black limiting line shall be

shown coincident with the administrative boundary alignment as represented in the map interior. Tidal water and the shoreline between tidal water areas and the expurgated land area shall be shown.

## **3.4 Data Quality Annotations**

### **3.4.1 Disclaimer notes**

#### **3.4.1.1 Boundary disclaimer note**

The following note shall appear on all maps below the boundaries diagram (see also Figure 19) except for those maps wholly contained within the United States, or meet the conditions contained in section 3.3.6.2.3 “Approximate boundaries”:

Boundary representation is not necessarily authoritative.

#### **3.4.1.2 Names disclaimer note**

The following note shall be included in the “NOTES” section of maps which contain names that do not necessarily reflect the officially recognized political status or sovereignty of the areas concerned:

GEOGRAPHIC NAMES OR THEIR SPELLING DO NOT NECESSARILY REFLECT RECOGNITION  
OF THE POLITICAL STATUS OF AN AREA BY THE UNITED STATES GOVERNMENT.

The requirement for this note shall be indicated in supplementary instructions for the project.

### **3.4.2 Currency notes**

Currency notes are statements that aid the map user in evaluating the currency of the sources or data used to prepare the map. The notes shall be shown immediately below the publication note.

#### **3.4.2.1 Standard currency note**

The standard currency note for topographic maps shall be shown as follows:

MAP INFORMATION AS OF [YYYY]

##### **3.4.2.1.1 Currency note date**

The year [YYYY] shown in the currency note shall refer to the significant date of the source data used to produce the map.

Typically, the date of the imagery used in the extraction of the feature data portrayed on the map shall be the significant date shown in the note. If there are multiple years of imagery, the range of dates shall be used in the note. For example:

MAP INFORMATION AS OF 2011-2013

If non-imagery source data was used (i.e. commodity data, native map source, etc.), the date(s) of that source shall be the significant date shown in the note.

### **3.4.2.2 Limited updates currency note**

If a revision of a map was accomplished for a limited number of features/information, the standard currency note is expanded to identify the significant date of the source used in the update. For example:

MAP INFORMATION AS OF 2010 WITH LIMITED UPDATES AS OF 2014

### **3.4.2.3 International boundary currency note**

If a non-US Administrative Boundary appears in the map interior, a currency note shall be shown indicating the year the boundary data was reviewed and verified. For example:

INTERNATIONAL BOUNDARY INFORMATION AS OF [YYYY]

## **3.5 Symbol legend**

### **3.5.1 Overview**

The symbol legend defines and illustrates features represented on a map. A typical legend should include the basic themes of: populated places, roads, railways, boundaries, cultural features, vertical obstructions, aeronautical features, hydrographic features, coastal hydrographic features, vegetation features and hypsographic features. Space permitting, all symbols on the map that require explanation shall be shown in the legend. The symbol legend shall be displayed in the lower left margin of the map display.

Annex B – Style Sheets, section B.5 illustrates the design and composition of a standard symbol legend. This standard legend contains most of the common topographic map symbols needing explanation (to include coastal hydrographic features). Arid and frozen region symbol subsets are also included in section B.5 and can be inserted into the standard legend as appropriate.

Certain annotated metric ground distances will vary based on map scale and shall be tailored in the legend where applicable. These are denoted for surface river widths and dash/space increments on symbols for all weather/loose surface/one lane road, cart track and trail. See section B.5 for more detailed information.

#### **3.5.1.1 Standard legend for a series of maps**

For map projects consisting of a series or group of maps of a particular geographical area, a standard legend may be used for all of the sheets. All the symbols included on the standard legend may not appear on each sheet; however these symbols are not deleted unless space is needed for modifying the legend or margin.

### **3.5.1.2 Additions to standard legend**

The standard legend may be modified on a sheet-by-sheet basis as necessary to incorporate any additional symbols appearing on the map that require explanation.

### **3.5.1.3 Labeling in lieu of legend symbol**

If a feature, not included in the standard legend, appears only once or a few times and is symbolized by a unique symbol, it may be labeled in the map interior rather than added to the legend.

### **3.5.1.4 Highest spot elevation in legend**

The sample value shown in the Legend for “Spot Elevation: Highest” shall be the actual maximum elevation value contained within the geographic extent of the respective map sheet.

### **3.5.1.5 Translation of symbol legend**

When required, the terminology of a legend shall be expressed in other languages in addition to English.

## **3.6 Glossary**

Glossaries shall be prepared for maps that contain foreign generic terms and related foreign language terminology. They may also contain definitions of abbreviations for generic descriptive terms used in the map (see also TM PC 3.4.6).

### **3.6.1 Standard glossary**

For map projects consisting of a series or group of maps of a particular geographical area, a standard glossary may be used for all of the sheets. All of the foreign generic terms included in the standard glossary need not appear on each sheet. However, foreign generic terms shall not be deleted unless space is needed for modifying the glossary or margin.

#### **3.6.1.1 False generic terms**

Care shall be taken to not include in the glossary false generic terms (pseudo generics), which are misleading to the map reader. A false generic term is that part of a toponym that has lost its original meaning and no longer expresses the nature of the feature it names. Examples of false generic terms in American toponyms are as follows:

"Fort" in Fort Worth (city)

"River" in Fall River (city)

"Vineyard" in Martha's Vineyard (island)

"Forest" in Wake Forest (city)

### **3.6.1.2 Translation principles**

Glossary translations need not be literal or linguistically reliable. Its purpose is to identify features on the map for the map user. Therefore, deviations may be made from dictionary translations, when required, to bring the tailored glossary into accord with map conditions.

### **3.6.1.3 Natural linear drainage features**

In identifying all natural linear drainage features that are characterized by running water, the general term “river” shall be used, and translations such as “stream”, “brook”, “creek”, “run”, “rill”, and so forth shall be avoided. This helps to unify glossary translations from the various foreign languages and to standardize usage. The same principles shall be applied to all other translations where a single general term can be used rather than numerous words that exhibit minor semantic differences or local linguistic peculiarities.

### **3.6.1.4 Polysemantics**

In the treating of polysemantics (words that have more than one meaning), only the specific definition or definitions that apply to the features depicted on the map shall be shown on the glossary. For example, the Spanish term "arroyo" refers to both streams and ravines, but if the map in question shows only ravines, then that shall be the sole translation that is to appear in the glossary.

## **3.6.2 Foreign generic terms**

Foreign generic terms shall be listed alphabetically in the glossary according to English rules, regardless of the language. The initial letter of a foreign generic term shall always be shown with a capital letter. However, it may be shown with a lower case letter if the term is used as a hyphenated suffix (see Figure 25). When the term in the interior appears in all capitals, it shall be shown in the glossary in mixed case. All variations of a term which appear in the map shall be listed.

## **3.6.3 Limited glossary space**

When translation to English-only is required and available space in the map margin is a critical factor, terms which occur least may be translated in the interior of the map. The translations shall be positioned immediately below or alongside the native term; they shall be enclosed in parentheses and shown in lower case descriptive type. This practice is permissible until the number of terms remaining can be accommodated in the margin.

## **3.6.4 Multiple translations**

When other translations in addition to English are required, all terms, regardless of the frequency with which they appear on the map, shall be listed in the glossary. If space in the map margin becomes a factor, the provisions of 3.6.3 apply.

### 3.6.5 Arrangement of generic terms

The generic terms within the glossary shall be arranged as follows:

#### 3.6.5.1 Glossaries with one foreign language

The foreign generic terms appearing in the map interior shall be arranged alphabetically and shown as the first column (Figure 22).

<b>GLOSSARY</b>	
Akna .....	mine shaft
Banya .....	mine
Berc .....	peak
Domb .....	hill
Erdo .....	forest
Hegy .....	mountain
Hora .....	mountain
Menedekhaz .....	inn
Myslivna .....	hunting lodge
Oldal .....	slope
Orhaz .....	peak
Orom .....	river
Pusta, puszta .....	estate
Taro .....	mine shaft
Tele .....	settlement

Figure 22. Glossary with foreign generic terms.

#### 3.6.5.2 Glossaries with multiple foreign languages

When more than one foreign language appears in the map interior, the generic terms shall be arranged alphabetically in the same column and shown as the first column (Figure 23).

<b>GLOSSARY</b>	
Alomas .....	railroad station
Dolina .....	valley
Domb .....	hill
Dvoe .....	estate
Erdo .....	forest
Forras .....	spring
Hegy .....	mountain
Hora .....	mountain
Kut .....	well
Major .....	estate
Megallo .....	railroad stop
Patak, potok .....	river
Pusta, puszta .....	estate

Figure 23. Glossary with multiple foreign language generic terms.

### 3.6.5.3 Glossaries for multilingual margins

For multilingual margins which include a foreign language(s) (Figure 24) which does not appear in the map interior, the generic terms of that language(s) shall be shown to the right of their English equivalents.

<b>GLOSSARY</b>		
Berg, bergl	.....mountain	.Berg ..... monte
Doline	.....valley	.Tal ..... valle
Dvar	.....estate	.Gut ..... proprieta
Erad	.....forest	.Wald ..... basco
Hajovna	.....foresters lodge	.Foresters ..... casa forestaie
Hora	.....mountain	.Berg ..... monte
Hostinec	.....inn	.Wirtshaus ..... osteria
Kmyba	.....hut	.Hutte ..... capanna
Les	.....forest	.Wald ..... bosco
Lnky	.....meadows	.Wiesen ..... prati
Patak	.....river	.Bach ..... rio
Ruine	.....ruins	.Runie ..... runic
Schloss	.....castle	.Schloss ..... castello
Vrch	.....peak	.Berggipfel ..... picco
Wald	.....forest	.Wald ..... bosco
Wiese	.....meadow	.Wiese ..... prato

Figure 24. Glossary for multilingual margins.

### 3.6.5.4 Glossaries with foreign characters

When project specifications require the use of foreign characters (Figure 25) in addition to the Romanized terms, generic terms shall be treated as previously stated. Descriptive terms used in the map interior and their corresponding characters shall be listed alphabetically following the generic forms in the map glossary. Multiple cognate terms (-xxx) that share a common meaning, but are spelled differently in the Romanized text, may be listed on the same line in the glossary.

<b>GLOSSARY</b>		
-bong	.....peak	-ho .....lake, pond
-chae, -jae	.....pass	-ji ..... lake, pond, reservoir
-ch on	.....river	-kagae ..... pass
-dong, -tong	.....settlement	-li, -ni, -ri ..... settlement
-gang	.....river	-ryong ..... pass
-gol, -kol	.....settlement	-san ..... hill, mountain
caves	.....굴	
destroyed	.....파괴	
ford	.....여울목	
wood	.....목교	

Figure 25. Glossary with foreign characters.

### 3.6.5.5 Glossaries with variants of generic terms

When there are two or more variants of the same generic term (including abbreviations), that mean the same thing and begin with the same letter, the terms may be shown on a single glossary line (Figure 26).

**GLOSSARY**

Clla, Cuchilla .....	ridge
Darah, Darreh .....	valley
Koh, Kowh, Kuh .....	mountain
Potay, Powtay .....	hill
Q, Qda, Quebrada .....	river

Figure 26. Glossary with variants of generic terms.

**3.6.5.6 Glossaries with variants of translations**

When a single generic term has more than one meaning as applied to the map or series of maps, the terms may be shown on a single glossary line (Figure 27).

**GLOSSARY**

Bagh .....	garden, orchard
Kamar .....	cliff, ridge, slope
Loma .....	hill, mountain
Nahr .....	canal, ditch

Figure 27. Glossary with variants of translations.

Combinations of the examples in Figure 24 and Figure 25 may also be applied. For example:

Nawar, Nawer, Nawor.....lake, reservoir

**3.7 Miscellaneous notes**

A miscellaneous note provides any information which relates specifically to the mapped area and has a bearing on the operational usefulness of the map. These notes shall be grouped together in the “NOTES” section of the margin and shall be stated as briefly as clarity permits.

**3.7.1 Standard notes**

Each map margin shall include the following standard notes regardless of the presence or absence of the feature in the map face:

A LANE ON THIS MAP IS CONSIDERED TO BE AT LEAST 2.5 METERS (8.2 FEET) WIDE.

ROAD CLASSIFICATION SHOULD BE REFERRED TO WITH CAUTION.  
SEE LEGEND FOR LINEAR MEASUREMENTS ALONG SOME SYMBOLS.

ONLY FORDS ALONG ROADS CROSSING PERENNIAL DRAINAGE ARE SHOWN.

ONLY THROUGH ROUTES ARE CLASSIFIED IN BUILT-UP AREAS.

CAUTION: NOT ALL COMMUNICATION AND POWER DISTRIBUTION LINES ARE SHOWN.

THE NORMAL RAILWAY GAUGE IS [0.00] METERS [(0' 0")].

TO CONVERT METERS TO FEET USE THIS FACTOR: 1 METER = 3.28 FEET.

### 3.7.2 Less common notes

Pertinent special notes should be included based on data content conditions and may also be specified in supplementary instructions for the project. Examples of less common notes that may be included if applicable (for a given sheet or project):

THE NUMBER IN PARENTHESES, "(1)", FOLLOWING A POPULATED PLACE NAME INDICATES THAT MORE THAN ONE PLACE IS SO NAMED ON THIS MAP.

*[Shown on sheets containing the usage of numbers denoting same place names]*

BUILT-UP AREAS CONTAIN NUMEROUS WALLS.

*[Shown on sheets where the Wall symbol has been suppressed or not extracted within BUAs]*

RICE PADDIES ARE SUBJECT TO INUNDATION; HOWEVER, THEY MAY BE SEASONALLY DRY.

*[Shown on sheets containing Rice]*

NOT TO BE USED FOR SURFACE OR SUBSURFACE NAVIGATION.

*[Shown on sheets containing Tidal Water]*

SLOPES ON THIS MAP ARE LESS THAN 5%.

*[Shown on sheets in flat areas in lieu of slope guide]*

ELEVATION DATA WITHIN EXTRACTION MINES AND SAND DUNE AREAS IS SUBJECT TO CHANGE AND SHOULD BE REFERRED TO WITH CAUTION.

*[Shown on sheets containing Sand Dunes and/or Extraction Mines]*

THE NORMAL RAILWAY GAUGE IN [COUNTRY OR AREA] IS [0.00] METERS [(0' 0")].

THE NORMAL RAILWAY GAUGE IN [COUNTRY OR AREA] IS [0.00] METERS [(0' 00")].

*[Shown on sheets containing more than one normal Railway gauge]*

CAUTION: CABLE/CABLEWAY PYLONS, INDICATED BY AN UNLABELED VERTICAL OBSTRUCTION SYMBOL, RANGE FROM XXX TO XXX METERS IN HEIGHT ABOVE MEAN SEA LEVEL AND FROM (XXX) TO (XXX) METERS ABOVE GROUND LEVEL OVER THE ENTIRE SHEET.

*[Shown on sheets containing cable/cableway pylons >= 46 meters with variable heights above ground level]*

CAUTION: CABLE/CABLEWAY PYLONS, INDICATED BY AN UNLABELED VERTICAL OBSTRUCTION SYMBOL, RANGE FROM XXX TO XXX METERS IN HEIGHT ABOVE MEAN SEA LEVEL AND (XXX) METERS ABOVE GROUND LEVEL OVER THE ENTIRE SHEET.

*[Shown on sheets containing cable/cableway pylons >= 46 meters with non-variable heights above ground level]*

CAUTION: CABLE/CABLEWAY LINES, INDICATED BY AN UNLABELED VERTICAL OBSTRUCTION SYMBOL, RANGE FROM XXX TO XXX METERS IN HEIGHT ABOVE

MEAN SEA LEVEL AND FROM (XXX) TO (XXX) METERS ABOVE GROUND LEVEL OVER THE ENTIRE SHEET.

*[Shown on sheets containing cable/cableway sections  $\geq$  46 meters with variable heights above ground level]*

CAUTION: CABLE/CABLEWAY LINES, INDICATED BY AN UNLABELED VERTICAL OBSTRUCTION SYMBOL, RANGE FROM XXX TO XXX METERS IN HEIGHT ABOVE MEAN SEA LEVEL AND (XXX) METERS ABOVE GROUND LEVEL OVER THE ENTIRE SHEET.

*[Shown on sheets containing cable/cableway sections  $\geq$  46 meters with non-variable heights above ground level]*

CAUTION: WITHIN THE BUILT-UP AREA OF [CITY NAME(S)], ONLY THE HIGHEST VERTICAL OBSTRUCTION PER 1,000M GRID SQUARE IS PORTRAYED.

*[Shown on sheets containing one or more large cities with a dense concentration of vertical obstructions]*

GEOGRAPHIC NAMES OR THEIR SPELLING DO NOT NECESSARILY REFLECT RECOGNITION OF THE POLITICAL STATUS OF AN AREA BY THE UNITED STATES GOVERNMENT.

*[Shown only when indicated in project instructions, see section 3.4.1.2]*

### **3.8 Colored light readable notes**

#### **3.8.1 Red-Light readable note**

The following note shall be shown in the lower right margin to indicate the map should be readable under Red-Light conditions:

CAUTION: VERIFY RED-LIGHT READABILITY

#### **3.8.2 Red-Light and Blue/Green-Light readable notes**

When special mapping projects require that a map should be red-light and blue/green-light readable, the following note shall be shown:

CAUTION: VERIFY RED-LIGHT AND BLUE/GREEN-LIGHT READABILITY

### **3.9 Road and Railway objectives**

#### **3.9.1 Definition**

A road or railway objective is a selected destination and distance thereto, of a road or railway that continues beyond the limits of the map.

#### **3.9.2 Destinations**

A destination should usually be the nearest populated place, numbered or named road or railway, named railway station, named aerodrome, or prominent landmark feature on the adjacent sheet; however, in sparsely developed areas it may be necessary to select an objective two or more sheets away from the map under consideration.

### **3.9.3 Double objectives**

Double road or railway objectives may be shown, space permitting, for primary routes. A double objective shall consist of the nearest destination and a distant, more important destination. Double objectives shall not be shown in densely developed areas.

### **3.9.4 Selection of objectives**

The selection of road and railway objectives shall be based on the density of the road and railway network.

#### **3.9.4.1 General practice for road/railway objectives**

Objectives should normally be shown for primary all weather roads and railways. In developed areas with a dense concentration of railways and all weather roads, objectives should be shown only for railways and multiple lane or numbered roads, with railway objectives given preference over road objectives where applicable.

#### **3.9.4.2 Objectives in underdeveloped areas**

In underdeveloped areas, objectives should be shown for main transportation routes regardless of classification. This may include cart tracks and trails, where appropriate.

#### **3.9.4.3 Road objectives to populated places**

A populated place may be designated as a road objective even though the road in question actually bypasses the populated place, so long as the road in question and the populated place are connected by another road, cart track or trail. The distance shall be computed to the town and not to the nearby road junction.

#### **3.9.4.4 Road/railway objectives to populated places on neatline**

If a road or railway enters a populated place which straddles a sheet neatline, no objective shall be shown.

#### **3.9.4.5 Ferry route objectives**

Ferry route destinations beyond the neatlines of a sheet shall be shown in the same manner as road and railway objectives.

#### **3.9.4.6 Number of objectives portrayed**

Whenever possible, a minimum of three and a maximum of six objectives should be shown on each sheet edge.

### **3.9.5 Portrayal of road and railway objectives**

The design and positioning of road and railway objectives are illustrated on Annex B - Style Sheets.

Road and railway distances shall be expressed in kilometers and are always abbreviated as "km".

- Distances of 10 or more kilometers shall be shown to the nearest full kilometer; decimal fractions are omitted. Example: 12 km
- Distances of less than 10 kilometers shall be shown to the nearest tenth of a kilometer. Examples: 8.3 km; 7.0 km
- Distances of less than one kilometer shall be expressed in zero kilometers and tenths of a kilometer. Example: 0.3 km

#### **3.9.5.1 Road/railroad objective leader arrows**

A leader arrow shall represent the directional extension of the road or railway. If the road or railway branches at the neatline, two arrows shall be shown emanating from a common point.

#### **3.9.5.2 Roads and/or railways with common objective**

When two roads or railways (or a combination of both) have a common destination, and are parallel and a short distance apart at the neatline, a single objective shall be shown for both lines of transportation. A leader arrow shall be shown for each line of transportation.

#### **3.9.5.3 Roads/railways with double objectives**

A single arrow shall be shown for double objectives. Both destinations shall be centered over the arrow with the nearest destination shown closer to the map neatline.

#### **3.9.5.4 Objectives that are numbered highways**

If the road objective is a numbered highway, the objective shall read: 12 km. to MEXICO 75.

#### **3.9.5.5 Objectives that are named roads or railways**

If the objective is a named road or railway, the objective shall read: "ALCAN HIGHWAY 20 km"; or "UNION PACIFIC RAILWAY 40 km"

#### **3.9.5.6 Objectives that are both named and numbered roads**

If the objective is both a numbered and named road, the numbered designation shall be used as the objective.

## **4 Annotation Catalog Report Organization**

The TM AC Report is organized into the following annexes:

- Annex A – Annotations: presents all annotations from the TM AC. These annotations (along with portrayed feature data) constitute the basic components of a TM map display. Previously, text and style sheets conveyed the entirety of this information.
- Annex B – Style Sheets: presents the graphic illustration and design of annotation elements and their locations on the map. Included in Annex B are subsections that provide more detailed versioning and information related to certain annotation elements.

## 4.1 Annotations Report (Annex A)

### 4.1.1 Annotation Header

Each annotation is identified by a yellow header that provides the name of the annotation (corresponding to the particular section that describes that annotation within the TM AC). Directly below this header is a reference to the section of the TM AC text that describes the annotation (Figure 28).

#### Bar Scale

TM DPS AC Section: 3.3.2.2

Figure 28. Annotation header from Annex A.

### 4.1.2 Annotation Metadata Elements

Annotations represent map display metadata and are defined by such metadata. The “Metadata Elements” section identifies the metadata elements associated with the annotation. Every metadata element that is used in an annotation rule, or whose value is used in the display of that annotation, is identified (Figure 29). Metadata elements identified in this section correspond to TM metadata elements as listed in the TM DPS, Section 8.

For each metadata element, the following information is provided:

- The **name** of the metadata element.
- The **substitution value** used to indicate where the metadata element’s value is to be substituted into rule clauses, etc.
- The **description** of the metadata element.

Metadata Elements		
Name:	Substitution Value:	Description:
Sheet Scale	displayScale	The scale (representative fraction) of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Figure 29. Metadata elements from Annex A.

### 4.1.3 Annotation Rules

Rules consist of expressions involving metadata values that provide context or conditions and guide annotation appearance. Rules in the “Annotation Rules” section govern when the annotation will be shown within the TM map display. For each Annotation Rule, the following information is presented (Figure 30):

- The **reference number** of the rule (AC-XXXX);
- A **human-readable description** of the rule;
- The **criteria** to be evaluated.
  - The criteria for each rule are a series of clauses that together evaluate to a Boolean value (TRUE/FALSE); an evaluation of TRUE indicates that the annotation will be shown, while FALSE means that it will not appear.
  - The rule criteria may take into account the value of the various metadata elements for the given TM instance. The metadata element’s substitution value (see section 4.1.2) will be used as a placeholder for the actual value of the element.

Annotation Rules		
Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'

Figure 30. Sample annotation rules from Annex A.

### 4.1.4 Annotation Versions

Just as a feature symbol may have variations that are applicable to given attribute values or display considerations, each annotation may have variant forms that are used under particular conditions (governed by annotation metadata). The remainder of the information about each annotation is listed in the version section (shown in total in Figure 31, and discussed more completely in the remainder of this section).

**Bar Scale (1:50K, Multiple Language)**

## Style Sheet References:

TM 50: Arrangement B

TM 100: (n/a)

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0007	1:50K	[displayScale.equivalentScale] = 1:50,000
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index: 1    Ref #: 203002    Name: Bar Scale (1:50K, Translated)    Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM 50 Arrangement B Style Sheet for detailed instructions and specifications on the construction of the bar scale.

**Bar Scale (1:100K, Single Language)**

## Style Sheet References:

TM 50: (n/a)

TM 100: Arrangement A

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0008	1:100K	[displayScale.equivalentScale] = 1:100,000
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index: 1    Ref #: 203003    Name: Bar Scale (1:100K)    Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM 100 Arrangement A Style Sheet for detailed instructions and specifications on the construction of the bar scale.

Figure 31. Annotation versions from Annex A.

**4.1.4.1 Annotation Version Header**

If an annotation consists of more than one version, the name of the version is provided in blue. The name of the version typically (but not universally) consists of the name of the annotation, with variant information provided in parentheses (Figure 32).

**Bar Scale (1:50K, Single Language)**

Figure 32. Annotation version header from Annex A.

If an annotation has only a single version, this header is omitted, as the name of the single version is identical to the name of the annotation as a whole.

#### 4.1.4.2 Style Sheet References and Version Notes

Directly below the annotation version header (if present) are references to the TM 1:50K and 1:100K style sheets on which the annotation version can be found (if applicable).

Additionally, any specific notes pertaining to the version are given; these notes may provide clarification on the construction or location of the annotation, or references to external documents (see Figure 33).

Style Sheet References:	Version Notes:
TM 50: Arrangement A	Shown below the boundaries diagram.
TM 100: Arrangement A	

Figure 33. Annotation style sheet references and version notes.

#### 4.1.4.3 Annotation Version Rules

Version rules identify when a particular annotation version will be used, and are listed after that version's blue header (see Figure 34). The format and presentation of these rules matches that of the "Annotation Rules" as a whole (as presented in section 4.1.3).

If all of the criteria for a given Version Rule evaluate to TRUE for a TM instance, that particular version of the annotation should be used for the instance. Version rules are constructed so that only one version of each annotation will evaluate to TRUE in this way.

If there is only a single version of an annotation (i.e. there are no blue headers for separate annotation versions), the Version Rules section will not appear – the Annotation Rules alone govern the appearance of the annotation.

Version Rules		
Reference #:	Description:	Criteria:
AC-0007	1:50K	[displayScale.equivalentScale] = 1:50,000
AC-0003	Multiple-language	[displayLanguage.count] > 1

Figure 34. Annotation version rules from Annex A.

#### 4.1.4.4 Annotation Components

The Components section describes in detail the components that make up the annotation version. Like feature symbols, each annotation is made up of multiple graphical (lines and other geometric symbols) and textual elements. Components are not inherently annotation-specific: they may be reused among annotations or annotation versions, although most components are only used in one annotation/version.

Figure 35 provides an example of a complete components section. For each component (regardless of type), the following characteristics are listed:

- The **index** of the component within the annotation version (for quick reference and sorting);
- The full **reference number** of the component, a 6-digit number that uniquely identifies the component regardless of the annotation/version it is a part of;
- The descriptive **name** of the component; and
- The **type** of the component (text, graphic, map, or other);
- (at bottom) Additional **notes** on the component (if needed).

Components			
Index: 1	Ref #: 200411	Name: Ellipsoid Note	Type: Text
Text Content:		"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note:		The ellipsoid used for all TM instances is World Geodetic System 1984.	
Index: 2	Ref #: 202200	Name: Primary Map Multiple Grid Note	Type: Text
Text Content:		"GRID...1,000 METER UTM ZONE [primaryMapMajorGridZone] (BLACK NUMBERED LINES)" 1,000 METER UTM ZONE [primaryMapMinorGridZone] (BLUE NUMBERED TICKS)"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note:		For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the TM DPS AC.	
Index: 3	Ref #: 200413	Name: Projection Note	Type: Text
Text Content:		"PROJECTION...TRANSVERSE MERCATOR"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note:		The projection for all TM instances is Transverse Mercator.	
Index: 4	Ref #: 200414	Name: Vertical Datum Note	Type: Text
Text Content:		"VERTICAL DATUM...MEAN SEA LEVEL"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note:		The vertical datum for all TM instances is Mean Sea Level.	
Index: 5	Ref #: 200415	Name: Horizontal Datum Note	Type: Text
Text Content:		"HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note:		The horizontal datum for all TM instances is World Geodetic System 1984.	

Figure 35. Annotation components section example from Annex A.

#### 4.1.4.4.1 Text components

Text components consist of any amount of text with associated color and type specification information (see Figure 36 for an example).

The parameters of a text component are as follows:

- The **text content** of the component (the literal text to be displayed). Substitution values of metadata elements (see section 4.1.2) may be used within this text string to indicate that the metadata element value should be inserted as appropriate.
- The **color** of the text.
- The **type specification** of the text, including font, size, weight, and case (upper or mixed case).

---

Index: 1	Ref #: 202701	Name: JOG-A Note	Type: Text
Text Content:		"Sheet [sheetNumber] falls within [jogSheetNumber], 1501A, 1:250,000."	
Color:		Black	
Type Specification:		Zurich Condensed (5 point, Medium, Mixed Case)	

Figure 36. Type component specification from Annex A.

#### 4.1.4.4.2 Graphic components

Graphic components consist of graphical elements, analogous to the points/lines/polygons that make up feature symbols. Current graphic component specifications are limited to references to external symbols or graphics.

The parameters of a graphic component (Figure 37) are as follows:

- The **symbol graphic reference**, which may (in future editions of the Annotation Catalog), be a path to an included symbol graphic. (Currently the component note indicates the reference.)

---

Index: 1	Ref #: 203001	Name: Bar Scale (1:50K)	Type: Graphic
Symbol Graphic Reference			
Note: Refer to TM 50 Arrangement A Style Sheet for detailed instructions and specifications on the construction of the bar scale.			

Figure 37. Graphic component specification from Annex A.

## 4.2 Style Sheets and supporting sections (Annex B)

The following sections are included in Annex B - Style Sheets:

- B.1 – 1:50,000 Scale Topographic Maps Style Sheet Arrangement “A” – single language/single grid (attached).
- B.2 – 1:50,000 Scale Topographic Maps Style Sheet, Arrangement “B” – multiple languages/overlapping grid (attached).
- B.3 – 1:100,000 Scale Topographic Maps Style Sheet, Arrangement “A” – single language/single grid (attached).
- B.4 – 1:100,000 Scale Topographic Maps Style Sheet, Arrangement “B” – multiple languages/overlapping grid (attached).
- B.5 – Master Legend: illustrates the design and composition of a standard symbol legend to be used on a TM.
- B.6 – Grid Declination Diagrams: provides detailed specifications pertaining to the composition and portrayal of declination diagram arrangements.
- B.7 – Margin Symbol Detailed Drawing Instructions: provides detailed drawing instructions of unique marginalia symbols (road designation and box arrow, grid declination star, grid declination full and half arrow).
- B.8 – Slope Guides: provides graphic samples of all variations of Slope Guides.
- B.9 – Grid Zone Junctions: provides specific portrayal and labeling information for when a major grid junction falls within sheet limits.

## **Annex A - Annotations**

This annex presents all annotations from the TM DPS Annotation Catalog. These annotations (along with portrayed feature data) constitute the basic components of a TM map display.

**NOTE** – The bookmark tool on the left panel of the PDF also provides hyperlinks to each annotation and annotation version.

## Adjoining Sheets Diagram

TM DPS AC Section: 3.3.6.1

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Sheet Line System	sheetLineSystem	The sheet line system used to define the borders of the TM map sheet.
Sheet Extent	sheetGeographicExtent	The geographic extent of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0001	Always Include	TRUE

## Adjoining Sheets Diagram (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

(none)

### Version Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

<b>Index:</b> 1	<b>Ref #:</b> 202601	<b>Name:</b> Adjoining Sheets Diagram Title	<b>Type:</b> Text
<b>Text Content:</b>		"ADJOINING SHEETS"	
<b>Color:</b>		Black	
<b>Type Specification:</b>		Zurich Condensed (9 point, Bold, Upper Case)	

<b>Index:</b> 2	<b>Ref #:</b> 202603	<b>Name:</b> Adjoining Sheets Diagram Graphic	<b>Type:</b> Map
-----------------	----------------------	---	------------------

**Note:** Refer to TM DPS AC section 3.3.6.1 for detailed instructions and specifications on the construction of the adjoining sheets diagram.

<b>Index:</b> 3	<b>Ref #:</b> 202604	<b>Name:</b> For Index Purposes Only Note	<b>Type:</b> Text
<b>Text Content:</b>		"For index purposes only - not necessarily an indication of published maps."	
<b>Color:</b>		Black	
<b>Type Specification:</b>		Zurich Condensed (4 point, Medium, Mixed Case)	

## Adjoining Sheets Diagram (Multiple Language)

#### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

#### Version Notes:

(none)

### Version Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

<b>Index:</b> 1	<b>Ref #:</b> 202601	<b>Name:</b> Adjoining Sheets Diagram Title	<b>Type:</b> Text
-----------------	----------------------	---	-------------------

Text Content: "ADJOINING SHEETS"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Bold, Upper Case)

Index: 2 Ref #: 202602 Name: Adjoining Sheets Diagram Title (Translated) Type: Text

Text Content: "ADJOINING SHEETS" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

Index: 3 Ref #: 202603 Name: Adjoining Sheets Diagram Graphic Type: Map

Note: Refer to TM DPS AC section 3.3.6.1 for detailed instructions and specifications on the construction of the adjoining sheets diagram.

Index: 4 Ref #: 202604 Name: For Index Purposes Only Note Type: Text

Text Content: "For index purposes only - not necessarily an indication of published maps."  
 Color: Black  
 Type Specification: Zurich Condensed (4 point, Medium, Mixed Case)

Index: 5 Ref #: 202605 Name: For Index Purposes Only Note (Translated) Type: Text

Text Content: "For index purposes only - not necessarily an indication of published maps." (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (4 point, Light, Mixed Case)

## Bar Code Box

TM DPS AC Section: 3.1.5

### Metadata Elements

Name:	Substitution Value:	Description:
NGA Reference Number	nrn	The unique NGA Reference Number (NRN) of the map sheet.
National Stock Number	nsn	The unique National Stock Number (NSN) of the map sheet.
Edition Number	editionNumber	The edition number of the TM map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

#### Style Sheet References:

TM 50: Arrangement A  
 TM 100: Arrangement A

#### Version Notes:

(none)

### Components

Index: 1 Ref #: 201501 Name: NSN Bar Code Type: Bar Code

Note: Detailed information and portrayal standards for bar codes can be found in MIL-STD-2414A, "Bar Coding for Geospatial Products".

Index: 2 Ref #: 201502 Name: NSN Note Type: Text

Text Content: "NSN [nsn]"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

---

Index: 3 Ref #: 201503 Name: NGA Ref Number Label Type: Text

Text Content: "NGA REF. NO."  
 Color: Black  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)  
 Note: The producing agency (if not NGA) may substitute its own label and stock/reference number.

---

Index: 4 Ref #: 201504 Name: NGA Ref Number Type: Text

Text Content: "[nrn]"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)  
 Note: The producing agency (if not NGA) may substitute its own label and stock/reference number.

---

Index: 5 Ref #: 201505 Name: Edition Bar Code Type: Bar Code

Note: Detailed information and portrayal standards for bar codes can be found in MIL-STD-2414A, "Bar Coding for Geospatial Products".

---

Index: 6 Ref #: 201506 Name: Edition Bar Code Label Type: Text

Text Content: "ED. NO."  
 Color: Black  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

---

Index: 7 Ref #: 201507 Name: Edition Bar Code Number Type: Text

Text Content: "[editionNumber]"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

## Bar Scale

TM DPS AC Section: 3.3.2.2

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Scale	displayScale	The scale (representative fraction) of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Bar Scale (1:50K, Single Language)

Style Sheet References:

Version Notes:

TM 50: Arrangement A

(none)

TM 100: (n/a)

### Version Rules

Reference #:	Description:	Criteria:
AC-0007	1:50K	[displayScale.equivalentScale] = 1:50,000
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1 Ref #: 203001 Name: Bar Scale (1:50K) Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM 50 Arrangement A Style Sheet for detailed instructions and specifications on the construction of the bar scale.

## Bar Scale (1:50K, Multiple Language)

### Style Sheet References:

TM 50: Arrangement B

TM 100: (n/a)

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0007	1:50K	[displayScale.equivalentScale] = 1:50,000
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index: 1 Ref #: 203002 Name: Bar Scale (1:50K, Translated) Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM 50 Arrangement B Style Sheet for detailed instructions and specifications on the construction of the bar scale.

## Bar Scale (1:100K, Single Language)

### Style Sheet References:

TM 50: (n/a)

TM 100: Arrangement A

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0008	1:100K	[displayScale.equivalentScale] = 1:100,000
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1 Ref #: 203003 Name: Bar Scale (1:100K) Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM 100 Arrangement A Style Sheet for detailed instructions and specifications on the construction of the bar scale.

## Bar Scale (1:100K, Multiple Language)

### Style Sheet References:

TM 50: (n/a)

TM 100: Arrangement B

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0008	1:100K	[displayScale.equivalentScale] = 1:100,000
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index: 1 Ref #: 203004 Name: Bar Scale (1:100K, Translated) Type: Graphic

## Symbol Graphic Reference

**Note:** Refer to TM 100 Arrangement B Style Sheet for detailed instructions and specifications on the construction of the bar scale.

## Boundaries Diagram

TM DPS AC Section: 3.3.6.2

### Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Boundaries Diagram (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index:	Ref #:	Name:	Type:
1	202401	Boundaries Diagram Title	Text
Text Content:		"BOUNDARIES"	
Color:		Black	
Type Specification:		Zurich Condensed (9 point, Bold, Upper Case)	

Index:	Ref #:	Name:	Type:
2	202402	Boundaries Diagram Graphic	Map

**Note:** Refer to TM DPS AC section 3.3.6.2 for detailed instructions and specifications on the construction of the boundaries diagram.

## Boundaries Diagram (Multiple Language)

#### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index:	Ref #:	Name:	Type:
1	202401	Boundaries Diagram Title	Text
Text Content:		"BOUNDARIES"	
Color:		Black	
Type Specification:		Zurich Condensed (9 point, Bold, Upper Case)	

Index:	Ref #:	Name:	Type:
2	202403	Boundaries Diagram Title (Translated)	Text

Text Content: "BOUNDARIES" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

Index: 3 Ref #: 202402 Name: Boundaries Diagram Graphic Type: Map

Note: Refer to TM DPS AC section 3.3.6.2 for detailed instructions and specifications on the construction of the boundaries diagram.

## Boundary Disclaimer Note

TM DPS AC Section: 3.4.1.1

### Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the TM map sheet.
Sheet Extent	sheetGeographicExtent	The geographic extent of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0036	International	[[sheetGeographicExtent] includes any area outside the US.)

## Boundary Disclaimer Note (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

Shown below the boundaries diagram.

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1 Ref #: 200804 Name: Boundary Disclaimer Note Type: Text

Text Content: "Boundary representation is not necessarily authoritative."  
 Color: Black  
 Type Specification: Zurich Condensed (5 point, Medium, Mixed Case)

Index: 2 Ref #: 202402 Name: Boundaries Diagram Graphic Type: Map

Note: Refer to TM DPS AC section 3.3.6.2 for detailed instructions and specifications on the construction of the boundaries diagram.

## Boundary Disclaimer Note (Multiple Language)

#### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

#### Version Notes:

Shown below the boundaries diagram.

### Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index: 1 Ref #: 200804 Name: Boundary Disclaimer Note Type: Text

Text Content: "Boundary representation is not necessarily authoritative."  
 Color: Black  
 Type Specification: Zurich Condensed (5 point, Medium, Mixed Case)

Index: 2 Ref #: 200806 Name: Boundary Disclaimer Note (Translated) Type: Text

Text Content: "Boundary representation is not necessarily authoritative." (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (6 point, Light, Mixed Case)

## Classification Marking - Lower

TM DPS AC Section: 3.2.1

### Metadata Elements

Name:	Substitution Value:	Description:
Classification (Code)	sheetClassificationCode	The security classification of the TM map sheet.
Special Handling Information	sheetSpecialHandlingInfo	Any security caveats or special handling instructions related to the TM map sheet.
Declassification Information	sheetDeclassInfo	Declassification information for the (classified) TM map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'

## Main Classification Box (Classified, No Special Handling)

#### Style Sheet References:

TM 50: Keyed Notes

TM 100: Keyed Notes

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'
AC-0023	No Special Handling	[sheetSpecialHandlingInfo] Is Null

### Components

Index: 1 Ref #: 200211 Name: Classification Note Type: Text

Text Content: "[sheetClassificationCode]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (20 point, Bold, Upper Case)

Index: 2 Ref #: 200213 Name: Downgrading/Declassification Note Type: Text

Text Content: "[sheetDeclassInfo]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (10 point, Bold, Upper Case)

## Main Classification Box (Classified, Special Handling)

#### Style Sheet References:

TM 50: Keyed Notes

TM 100: Keyed Notes

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
--------------	--------------	-----------

AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'
AC-0033	Special Handling	[sheetSpecialHandlingInfo] Is Not Null

**Components**

<b>Index:</b> 1	<b>Ref #:</b> 200211	<b>Name:</b> Classification Note	<b>Type:</b> Text
<b>Text Content:</b>		"[sheetClassificationCode]"	
<b>Color:</b>		Dk-Brown1815	
<b>Type Specification:</b>		Zurich Condensed (20 point, Bold, Upper Case)	
<b>Index:</b> 2	<b>Ref #:</b> 200212	<b>Name:</b> Caveat/Special Handling Note	<b>Type:</b> Text
<b>Text Content:</b>		"[sheetSpecialHandlingInfo]"	
<b>Color:</b>		Dk-Brown1815	
<b>Type Specification:</b>		Zurich Condensed (10 point, Bold, Upper Case)	
<b>Index:</b> 3	<b>Ref #:</b> 200213	<b>Name:</b> Downgrading/Declassification Note	<b>Type:</b> Text
<b>Text Content:</b>		"[sheetDeclassInfo]"	
<b>Color:</b>		Dk-Brown1815	
<b>Type Specification:</b>		Zurich Condensed (10 point, Bold, Upper Case)	

**Classification Marking - Upper**

TM DPS AC Section: 3.2.1

**Metadata Elements**

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Classification (Code)	sheetClassificationCode	The security classification of the TM map sheet.

**Annotation Rules**

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'

**Style Sheet References:**

- TM 50: Keyed Notes
- TM 100: Keyed Notes

**Version Notes:**

(none)

**Components**

<b>Index:</b> 1	<b>Ref #:</b> 200004	<b>Name:</b> Upper Classification Note	<b>Type:</b> Text
<b>Text Content:</b>		"[sheetClassificationCode]"	
<b>Color:</b>		Dk-Brown1815	
<b>Type Specification:</b>		Zurich Condensed (20 point, Bold, Upper Case)	

## Colored Light Readable Notes

TM DPS AC Section: 3.8

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Viewing Conditions - Red- and Blue/Green-Light Readability	redBlueGreenLightReadable	Whether or not the TM map sheet is blue/green-light readable in addition to red-light readable.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0001	Always Include	TRUE

## Red-Light Readable Note (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

(none)

### Version Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0009	Red-Light Readable Only	[redBlueGreenLightReadable] = FALSE
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

<b>Index:</b> 1	<b>Ref #:</b> 202100	<b>Name:</b> Red-light Readability Caveat Note	<b>Type:</b> Text
<b>Text Content:</b>		"CAUTION: VERIFY RED-LIGHT READABILITY"	
<b>Color:</b>		Dk-Brown1815	
<b>Type Specification:</b>		Zurich Condensed (8 point, Bold, Upper Case)	

## Red-Light Readable Note (Multiple Language)

#### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

#### Version Notes:

(none)

### Version Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0009	Red-Light Readable Only	[redBlueGreenLightReadable] = FALSE
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

<b>Index:</b> 1	<b>Ref #:</b> 202100	<b>Name:</b> Red-light Readability Caveat Note	<b>Type:</b> Text
<b>Text Content:</b>		"CAUTION: VERIFY RED-LIGHT READABILITY"	
<b>Color:</b>		Dk-Brown1815	
<b>Type Specification:</b>		Zurich Condensed (8 point, Bold, Upper Case)	
<b>Index:</b> 2	<b>Ref #:</b> 202101	<b>Name:</b> Red-light Readability Caveat Note (Translated)	<b>Type:</b> Text
<b>Text Content:</b>		"CAUTION: VERIFY RED-LIGHT READABILITY" (translated)	
<b>Color:</b>		Dk-Brown1815	
<b>Type Specification:</b>		Zurich Condensed (8 point, Medium, Upper Case)	

## Red- and Blue/Green-Light Readable Note (Single Language)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0010	Red- and Blue/Green-Light Readable	[redBlueGreenLightReadable] = TRUE
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

**Index:** 1    **Ref #:** 202102    **Name:** Red-light and Blue/Green-Light Readability Caveat Note    **Type:** Text

**Text Content:** "CAUTION: VERIFY RED-LIGHT AND BLUE/GREEN-LIGHT READABILITY"

**Color:** Dk-Brown1815

**Type Specification:** Zurich Condensed (8 point, Medium, Mixed Case)

## Red- and Blue/Green-Light Readable Note (Multiple Language)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0010	Red- and Blue/Green-Light Readable	[redBlueGreenLightReadable] = TRUE
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

**Index:** 1    **Ref #:** 202102    **Name:** Red-light and Blue/Green-Light Readability Caveat Note    **Type:** Text

**Text Content:** "CAUTION: VERIFY RED-LIGHT AND BLUE/GREEN-LIGHT READABILITY"

**Color:** Dk-Brown1815

**Type Specification:** Zurich Condensed (8 point, Medium, Mixed Case)

**Index:** 2    **Ref #:** 202103    **Name:** Red-light and Blue/Green-Light Readability Caveat Note (Translated)    **Type:** Text

**Text Content:** "CAUTION: VERIFY RED-LIGHT AND BLUE/GREEN-LIGHT READABILITY" (translated)

**Color:** Dk-Brown1815

**Type Specification:** Zurich Condensed (8 point, Medium, Upper Case)

## Contour Information Note

TM DPS AC Section: 3.3.4

### Metadata Elements

Name:	Substitution Value:	Description:
Data Content - Intermediate Contour Interval	contourInterval.intermediate	The primary (intermediate) contour interval represented by the contour data for the TM map sheet.
Data Content - Maximum Elevation	dataContent.maxElevation	The maximum elevation value over the geographic extent of the TM map sheet.
Data Content - Minimum Elevation	dataContent.minElevation	The minimum elevation value over the geographic extent of the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Contour Interval Note (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0029	Intermediate contours present	([dataContent] includes intermediate contours.)
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index:	1	Ref #:	200511	Name:	Intermediate Contour Interval Note	Type:	Text
Text Content:	"CONTOUR INTERVAL [contourInterval.intermediate] METERS"						
Color:	Black						
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)						

## Contour Interval Note (Multiple Language)

#### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0029	Intermediate contours present	([dataContent] includes intermediate contours.)
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index:	1	Ref #:	200511	Name:	Intermediate Contour Interval Note	Type:	Text
Text Content:	"CONTOUR INTERVAL [contourInterval.intermediate] METERS"						
Color:	Black						
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)						

Index:	2	Ref #:	200513	Name:	Intermediate Contour Interval Note (translated)	Type:	Text
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Text Content:	"CONTOUR INTERVAL [contourInterval.intermediate] METERS" (translated)
Color:	Black
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)

## Maximum Elevation Note (Single Language)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0031	Maximum elevation less than contour interval	[dataContent.maxElevation] < [contourInterval.intermediate]
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1	Ref #: 200515	Name: Maximum Elevation Note	Type: Text
Text Content:	"MAXIMUM ELEVATION [dataContent.maxElevation] METERS"		
Color:	Black		
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)		

## Maximum Elevation Note (Multiple Language)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0031	Maximum elevation less than contour interval	[dataContent.maxElevation] < [contourInterval.intermediate]
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index: 1	Ref #: 200515	Name: Maximum Elevation Note	Type: Text
Text Content:	"MAXIMUM ELEVATION [dataContent.maxElevation] METERS"		
Color:	Black		
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)		
Index: 2	Ref #: 200517	Name: Maximum Elevation Note (translated)	Type: Text
Text Content:	"MAXIMUM ELEVATION [dataContent.maxElevation] METERS" (translated)		
Color:	Black		
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)		

## No Contour Note (Single Language)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0030	No intermediate contours present	([[dataContent] does not include intermediate contours.)
AC-0032	Maximum elevation greater than contour interval	[dataContent.maxElevation] >= [contourInterval.intermediate]
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index:	Ref #:	Name:	Type:
1	200516	No Contour Note	Text
Text Content:		"THE TERRAIN ON THIS MAP IS BETWEEN [dataContent.minElevation] AND [dataContent.maxElevation] METERS ABOVE MEAN SEA LEVEL"	
Color:		Black	
Type Specification:		Zurich Condensed (9 point, Bold, Upper Case)	

### No Contour Note (Multiple Language)

#### Style Sheet References:

TM 50: (none)

TM 100: (none)

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0030	No intermediate contours present	([[dataContent] does not include intermediate contours.)
AC-0032	Maximum elevation greater than contour interval	[dataContent.maxElevation] >= [contourInterval.intermediate]
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index:	Ref #:	Name:	Type:
1	200516	No Contour Note	Text
Text Content:		"THE TERRAIN ON THIS MAP IS BETWEEN [dataContent.minElevation] AND [dataContent.maxElevation] METERS ABOVE MEAN SEA LEVEL"	
Color:		Black	
Type Specification:		Zurich Condensed (9 point, Bold, Upper Case)	
2	200518	No Contour Note (translated)	Text
Text Content:		"THE TERRAIN ON THIS MAP IS BETWEEN [dataContent.minElevation] AND [dataContent.maxElevation] METERS ABOVE MEAN SEA LEVEL" (translated)	
Color:		Black	
Type Specification:		Zurich Condensed (9 point, Medium, Upper Case)	

### Contour Interval Note - Supplementary

TM DPS AC Section: 3.3.4.2

### Metadata Elements

Name:	Substitution Value:	Description:
Data Content - Supplementary Contour Interval	contourInterval.supplementary	The supplementary contour interval(s) represented by the contour data for the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0022	Supplementary contours present	([[dataContent] includes supplementary contours.)

### Single Supplementary Contour Note (Single Language)

#### Style Sheet References:

#### Version Notes:

TM 50: Arrangement A

(none)

TM 100: Arrangement A

## Version Rules

Reference #:	Description:	Criteria:
AC-0038	Single supplementary contour interval	[contourInterval.supplementary.count] = 1
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index: 1 Ref #: 200512 Name: Single Supplementary Contour Interval Note Type: Text

Text Content: "SUPPLEMENTARY CONTOUR INTERVAL [contourInterval.supplementary] METERS"

Color: Black

Type Specification: Zurich Condensed (6 point, Bold, Upper Case)

## Single Supplementary Contour Note (Multiple Language)

Style Sheet References:

Version Notes:

TM 50: Arrangement B

(none)

TM 100: Arrangement B

## Version Rules

Reference #:	Description:	Criteria:
AC-0038	Single supplementary contour interval	[contourInterval.supplementary.count] = 1
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index: 1 Ref #: 200512 Name: Single Supplementary Contour Interval Note Type: Text

Text Content: "SUPPLEMENTARY CONTOUR INTERVAL [contourInterval.supplementary] METERS"

Color: Black

Type Specification: Zurich Condensed (6 point, Bold, Upper Case)

Index: 2 Ref #: 200514 Name: Single Supplementary Contour Interval Note (translated) Type: Text

Text Content: "SUPPLEMENTARY CONTOUR INTERVAL [contourInterval.supplementary] METERS" (translated)

Color: Black

Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

## Multiple Supplementary Contour Note (Single Language)

Style Sheet References:

Version Notes:

TM 50: (none)

(none)

TM 100: (none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0037	Multiple supplementary contour intervals	[contourInterval.supplementary.count] > 1
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index: 1 Ref #: 202301 Name: Multiple Supplementary Contour Interval Note Type: Text

Text Content: "SUPPLEMENTARY CONTOURS AT [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] METERS"

Color: Black

Type Specification: Zurich Condensed (6 point, Bold, Upper Case)

## Multiple Supplementary Contour Note (Multiple Language)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0037	Multiple supplementary contour intervals	[contourInterval.supplementary.count] > 1
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index: 1 Ref #: 202301 Name: Multiple Supplementary Contour Interval Note Type: Text

Text Content: "SUPPLEMENTARY CONTOURS AT [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] METERS"

Color: Black

Type Specification: Zurich Condensed (6 point, Bold, Upper Case)

Index: 2 Ref #: 202302 Name: Multiple Supplementary Contour Interval Note (Translated) Type: Text

Text Content: "SUPPLEMENTARY CONTOURS AT [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] METERS" (translated)

Color: Black

Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

## Copyright Note

TM DPS AC Section: 3.1.7.4

## Metadata Elements

Name:	Substitution Value:	Description:
Copyright Date	copyrightDate	The copyright date (YYYY) of the map sheet.
Copyright Note Text	copyrightNoteText	The text of the Copyright Note as required by individual producing nations.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

## Annotation Rules

Reference #:	Description:	Criteria:
AC-0044	Copyright required	(Sheets requiring a copyright per producing nation.)

## Copyright Note (Single Language)

### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

### Version Notes:

(none)

## Version Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

<b>Index:</b> 1	<b>Ref #:</b> 200111	<b>Name:</b> Copyright Note	<b>Type:</b> Text
<b>Text Content:</b>	"© COPYRIGHT [copyrightDate] [copyrightNoteText]"		
<b>Color:</b>	Black		
<b>Type Specification:</b>	Zurich Condensed (7 point, Medium, Upper Case)		

## Copyright Note (Multiple Language)

<b>Style Sheet References:</b>	<b>Version Notes:</b>
TM 50: Arrangement B	(none)
TM 100: Arrangement B	

### Version Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

<b>Index:</b> 1	<b>Ref #:</b> 200111	<b>Name:</b> Copyright Note	<b>Type:</b> Text
<b>Text Content:</b>	"© COPYRIGHT [copyrightDate] [copyrightNoteText]"		
<b>Color:</b>	Black		
<b>Type Specification:</b>	Zurich Condensed (7 point, Medium, Upper Case)		
<b>Index:</b> 2	<b>Ref #:</b> 200113	<b>Name:</b> Copyright Note (translated)	<b>Type:</b> Text
<b>Text Content:</b>	"© COPYRIGHT [copyrightDate] [copyrightNoteText]" (translated)		
<b>Color:</b>	Black		
<b>Type Specification:</b>	Zurich Condensed (7 point, Light, Upper Case)		

## Currency Notes

TM DPS AC Section: 3.4.2

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Data Content	dataContent	The data content represented on the TM map sheet.
Data Content Lineage - Imagery Source Date	[lineage.source[imagery].sourceCitation.date]	The date (YYYY) of the imagery used to create the TM.
Data Content Lineage - Boundary Source Date	[lineage.source[boundaryData].sourceCitation.date]	The date (YYYY) of the boundary data used to create the TM.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0001	Always Include	TRUE

## Currency Note Box (International Boundaries, Single Language)

<b>Style Sheet References:</b>	<b>Version Notes:</b>
TM 50: Arrangement A	This specification only covers the most common examples of the Currency Notes. See TM DPS AC section 3.4.2.3 for additional variations.
TM 100: Arrangement A	

### Version Rules

Reference #:	Description:	Criteria:
AC-0005	Non-US Boundaries Displayed	[[dataContent] includes non-US FA000 (Administrative Boundary) data.)
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1    Ref #: 201001    Name: Standard Currency Note    Type: Text

Text Content: "MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]"

Color: Black

Type Specification: Zurich Condensed (7 point, Bold, Upper Case)

Index: 2    Ref #: 201002    Name: International Boundary Currency Note    Type: Text

Text Content: "INTERNATIONAL BOUNDARY DATA AS OF [lineage.source[boundaryData].sourceCitation.date]"

Color: Black

Type Specification: Zurich Condensed (7 point, Bold, Upper Case)

## Currency Note Box (International Boundaries, Multiple Language)

### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

### Version Notes:

This specification only covers the most common examples of the Currency Notes. See TM DPS AC section 3.4.2.3 for additional variations.

### Version Rules

Reference #:	Description:	Criteria:
AC-0005	Non-US Boundaries Displayed	[[dataContent] includes non-US FA000 (Administrative Boundary) data.)
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index: 1    Ref #: 201001    Name: Standard Currency Note    Type: Text

Text Content: "MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]"

Color: Black

Type Specification: Zurich Condensed (7 point, Bold, Upper Case)

Index: 2    Ref #: 201002    Name: International Boundary Currency Note    Type: Text

Text Content: "INTERNATIONAL BOUNDARY DATA AS OF [lineage.source[boundaryData].sourceCitation.date]"

Color: Black

Type Specification: Zurich Condensed (7 point, Bold, Upper Case)

Index: 3    Ref #: 201003    Name: Standard Currency Note (translated)    Type: Text

Text Content: "MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]" (translated)

Color: Black

Type Specification: Zurich Condensed (7 point, Medium, Upper Case)

Index: 4    Ref #: 201004    Name: International Boundary Currency Note (translated)    Type: Text

Text Content: "INTERNATIONAL BOUNDARY DATA AS OF [lineage.source[boundaryData].sourceCitation.date]" (translated)

Color: Black

Type Specification: Zurich Condensed (7 point, Medium, Upper Case)

## Currency Note Box (No International Boundaries, Single Language)

### Style Sheet References:

### Version Notes:

TM 50: (none)

This specification only covers the most common examples of the Currency Notes. See TM DPS AC section 3.4.2.3 for additional variations.

TM 100: (none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0024	Non-US Boundaries Not Displayed	[[dataContent] does not include non-US FA000 (Administrative Boundary) data.)
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index:	Ref #:	Name:	Type:
1	201001	Standard Currency Note	Text
Text Content:		"MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]"	
Color:		Black	
Type Specification:		Zurich Condensed (7 point, Bold, Upper Case)	

## Currency Note Box (No International Boundaries, Multiple Language)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

This specification only covers the most common examples of the Currency Notes. See TM DPS AC section 3.4.2.3 for additional variations.

### Version Rules

Reference #:	Description:	Criteria:
AC-0024	Non-US Boundaries Not Displayed	[[dataContent] does not include non-US FA000 (Administrative Boundary) data.)
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index:	Ref #:	Name:	Type:
1	201001	Standard Currency Note	Text
Text Content:		"MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]"	
Color:		Black	
Type Specification:		Zurich Condensed (7 point, Bold, Upper Case)	
2	201003	Standard Currency Note (translated)	Text
Text Content:		"MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]" (translated)	
Color:		Black	
Type Specification:		Zurich Condensed (7 point, Medium, Upper Case)	

## Declination Diagram

TM DPS AC Section: 3.3.1.3

### Metadata Elements

Name:	Substitution Value:	Description:
Primary Map Major Grid Zone	primaryMapMajorGridZone	The major grid zone(s) to be shown on the TM primary map.
Primary Map Minor Grid Zone	primaryMapMinorGridZone	The minor grid zone(s) to be shown on the TM primary map.
Primary Map Major Grid Convergence Info	primaryMapMajorGridConvergenceInfo	The convergence info for the major grid(s) on the primary map.
Primary Map Minor Grid Convergence Info	primaryMapMinorGridConvergenceInfo	The convergence info for the minor grid(s) on the primary map.
Primary Map Major Grid Magnetic Angle Info	primaryMapMajorGridMagneticAngleInfo	The magnetic angle(s) for the major grid(s) on the primary map.
Primary Map Minor Grid Magnetic Angle Info	primaryMapMinorGridMagneticAngleInfo	The magnetic angle(s) for the minor grid(s) on the primary map.
Epoch Date	epochDate	The standard epoch year (divisible by five, such as 2010, 2015, etc.) of latest isogonic data.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

#### Style Sheet References:

TM 50: Arrangement A/B  
 TM 100: Arrangement A/B

#### Version Notes:

Refer to TM Annotation Catalog B.6 for detailed instructions and specifications on the construction of declination diagrams.

For more detail about the NGA display standards for grids and graticules, refer to:  
 NGA.STND.0037\_2.0\_GRIDS  
 NGA STANDARDIZATION DOCUMENT  
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

## Elevation Guide Diagram

TM DPS AC Section: 3.3.6.3

### Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the TM map sheet.
Major Grid System	gridSystem	The grid system used for TM map sheets.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Elevation Guide Diagram (Single Language)

#### Style Sheet References:

TM 50: Arrangement A  
 TM 100: Arrangement A

#### Version Notes:

Refer to TM DPS AC section 3.3.6.3 for detailed instructions and specifications on the construction of the elevation guide diagram.

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index:	1	Ref #:	202901	Name:	Elevation Guide Title	Type:	Text
Text Content:	"ELEVATION GUIDE"						
Color:	Black						
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)						

Index:	2	Ref #:	202903	Name:	Elevation Guide Graphic	Type:	Map
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**Note:** Refer to TM DPS AC section 3.3.6.3 for detailed instructions and specifications on the construction of the elevation guide diagram.

## Elevation Guide Diagram (Multiple Language)

### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

### Version Notes:

Refer to TM DPS AC section 3.3.6.3 for detailed instructions and specifications on the construction of the elevation guide diagram.

## Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index:	1	Ref #:	202901	Name:	Elevation Guide Title	Type:	Text
Text Content:	"ELEVATION GUIDE"						
Color:	Black						
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)						

Index:	2	Ref #:	202902	Name:	Elevation Guide Title (Translated)	Type:	Text
Text Content:	"ELEVATION GUIDE" (translated)						
Color:	Black						
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)						

Index:	3	Ref #:	202903	Name:	Elevation Guide Graphic	Type:	Map
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**Note:** Refer to TM DPS AC section 3.3.6.3 for detailed instructions and specifications on the construction of the elevation guide diagram.

## Geodetic Information and Composite Notes

TM DPS AC Section: 3.3.1.1

## Metadata Elements

Name:	Substitution Value:	Description:
Ellipsoid	ellipsoid	The ellipsoid to be used for the TM instance.
Primary Map Major Grid Zone	primaryMapMajorGridZone	The major grid zone(s) to be shown on the TM primary map.
Primary Map Minor Grid Zone	primaryMapMinorGridZone	The minor grid zone(s) to be shown on the TM primary map.
Projection	projection	The projection to be used for TM map sheets.
Horizontal Datum	horizontalDatum	The horizontal datum to be applied to the TM instance/map sheet.
Vertical Datum	verticalDatum	The vertical datum to be applied to the TM instance/map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

## Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Composite Note Box (Single Language, Single Grid)

### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

### Version Notes:

The Printing Note (defined elsewhere) will be shown at the very bottom of this box.

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0011	Single Grid Zone (Primary Map)	[primaryMapMinorGridZone] is Null

### Components

Index:	Ref #:	Name:	Type:
1	200411	Ellipsoid Note	Text
Text Content:		"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The ellipsoid used for all TM instances is World Geodetic System 1984.			
2	200412	Grid Note (Single)	Text
Text Content:		"GRID...1,000 METER UTM ZONE [primaryMapMajorGridZone]"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
3	200413	Projection Note	Text
Text Content:		"PROJECTION...TRANSVERSE MERCATOR"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The projection for all TM instances is Transverse Mercator.			
4	200414	Vertical Datum Note	Text
Text Content:		"VERTICAL DATUM...MEAN SEA LEVEL"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The vertical datum for all TM instances is Mean Sea Level.			
5	200415	Horizontal Datum Note	Text
Text Content:		"HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The horizontal datum for all TM instances is World Geodetic System 1984.			

## Composite Note Box (Single Language, Multiple Grid)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

The Printing Note (defined elsewhere) will be shown at the very bottom of this box.

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0012	Multiple Grid Zone (Primary Map)	[primaryMapMinorGridZone] is Not Null

## Components

Index: 1	Ref #: 200411	Name: Ellipsoid Note	Type: Text
Text Content:		"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The ellipsoid used for all TM instances is World Geodetic System 1984.			
Index: 2	Ref #: 202200	Name: Primary Map Multiple Grid Note	Type: Text
Text Content:		"GRID...1,000 METER UTM ZONE [primaryMapMajorGridZone] (BLACK NUMBERED LINES) 1,000 METER UTM ZONE [primaryMapMinorGridZone] (BLUE NUMBERED TICKS)"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the TM DPS AC.			
Index: 3	Ref #: 200413	Name: Projection Note	Type: Text
Text Content:		"PROJECTION...TRANSVERSE MERCATOR"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The projection for all TM instances is Transverse Mercator.			
Index: 4	Ref #: 200414	Name: Vertical Datum Note	Type: Text
Text Content:		"VERTICAL DATUM...MEAN SEA LEVEL"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The vertical datum for all TM instances is Mean Sea Level.			
Index: 5	Ref #: 200415	Name: Horizontal Datum Note	Type: Text
Text Content:		"HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The horizontal datum for all TM instances is World Geodetic System 1984.			

## Composite Note Box (Multiple Language, Single Grid)

## Style Sheet References:

TM 50: (none)

TM 100: (none)

## Version Notes:

The Printing Note (defined elsewhere) will be shown at the very bottom of this box.

## Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0011	Single Grid Zone (Primary Map)	[primaryMapMinorGridZone] is Null

## Components

Index: 1	Ref #: 200411	Name: Ellipsoid Note	Type: Text
Text Content:		"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The ellipsoid used for all TM instances is World Geodetic System 1984.			
Index: 2	Ref #: 200412	Name: Grid Note (Single)	Type: Text

Text Content: "GRID...1,000 METER UTM ZONE [primaryMapMajorGridZone]"  
 Color: Black  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

---

Index: 3    Ref #: 200413    Name: Projection Note    Type: Text

Text Content: "PROJECTION...TRANSVERSE MERCATOR"  
 Color: Black  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

Note: The projection for all TM instances is Transverse Mercator.

---

Index: 4    Ref #: 200414    Name: Vertical Datum Note    Type: Text

Text Content: "VERTICAL DATUM...MEAN SEA LEVEL"  
 Color: Black  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

Note: The vertical datum for all TM instances is Mean Sea Level.

---

Index: 5    Ref #: 200415    Name: Horizontal Datum Note    Type: Text

Text Content: "HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"  
 Color: Black  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

Note: The horizontal datum for all TM instances is World Geodetic System 1984.

---

Index: 6    Ref #: 200417    Name: Ellipsoid Note (translated)    Type: Text

Text Content: "ELLIPSOID...WORLD GEODETIC SYSTEM 1984" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (5 point, Light, Upper Case)

Note: The ellipsoid used for all TM instances is World Geodetic System 1984.

---

Index: 7    Ref #: 200418    Name: Grid Note (translated)    Type: Text

Text Content: "GRID...1,000 METER UTM ZONE [primaryMapMajorGridZone]" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (5 point, Light, Upper Case)

---

Index: 8    Ref #: 200419    Name: Projection Note (translated)    Type: Text

Text Content: "PROJECTION...TRANSVERSE MERCATOR" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (5 point, Light, Upper Case)

Note: The projection for all TM instances is Transverse Mercator.

---

Index: 9    Ref #: 200420    Name: Vertical Datum Note (translated)    Type: Text

Text Content: "VERTICAL DATUM...MEAN SEA LEVEL" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (5 point, Light, Upper Case)

Note: The vertical datum for all TM instances is Mean Sea Level.

---

Index: 10    Ref #: 200421    Name: Horizontal Datum Note (translated)    Type: Text

Text Content: "HORIZONTAL DATUM...[horizontalDatum]" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (5 point, Light, Upper Case)

Note: The horizontal datum for all TM instances is World Geodetic System 1984.

## Composite Note Box (Multiple Language, Multiple Grid)

## Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

## Version Notes:

The Printing Note (defined elsewhere) will be shown at the very bottom of this box.

## Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0012	Multiple Grid Zone (Primary Map)	[primaryMapMinorGridZone] is Not Null

## Components

Index: 1	Ref #: 200411	Name: Ellipsoid Note	Type: Text
Text Content:		"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The ellipsoid used for all TM instances is World Geodetic System 1984.			
Index: 2	Ref #: 202200	Name: Primary Map Multiple Grid Note	Type: Text
Text Content:		"GRID...1,000 METER UTM ZONE [primaryMapMajorGridZone] (BLACK NUMBERED LINES)" 1,000 METER UTM ZONE [primaryMapMinorGridZone] (BLUE NUMBERED TICKS)"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the TM DPS AC.			
Index: 3	Ref #: 200413	Name: Projection Note	Type: Text
Text Content:		"PROJECTION...TRANSVERSE MERCATOR"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The projection for all TM instances is Transverse Mercator.			
Index: 4	Ref #: 200414	Name: Vertical Datum Note	Type: Text
Text Content:		"VERTICAL DATUM...MEAN SEA LEVEL"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The vertical datum for all TM instances is Mean Sea Level.			
Index: 5	Ref #: 200415	Name: Horizontal Datum Note	Type: Text
Text Content:		"HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: The horizontal datum for all TM instances is World Geodetic System 1984.			
Index: 6	Ref #: 200417	Name: Ellipsoid Note (translated)	Type: Text
Text Content:		"ELLIPSOID...WORLD GEODETIC SYSTEM 1984" (translated)	
Color:		Black	
Type Specification:		Zurich Condensed (5 point, Light, Upper Case)	
Note: The ellipsoid used for all TM instances is World Geodetic System 1984.			
Index: 7	Ref #: 202201	Name: Primary Map Multiple Grid Note (Translated)	Type: Text

**Text Content:** "GRID...1,000 METER UTM ZONE [primaryMapMajorGridZone] (BLACK NUMBERED LINES)"  
1,000 METER UTM ZONE [primaryMapMinorGridZone] (BLUE NUMBERED TICKS)" (translated)

**Color:** Black

**Type Specification:** Zurich Condensed (5 point, Light, Upper Case)

**Note:** For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the TM DPS AC.

---

**Index:** 8    **Ref #:** 200419    **Name:** Projection Note (translated)    **Type:** Text

**Text Content:** "PROJECTION...TRANSVERSE MERCATOR" (translated)

**Color:** Black

**Type Specification:** Zurich Condensed (5 point, Light, Upper Case)

**Note:** The projection for all TM instances is Transverse Mercator.

---

**Index:** 9    **Ref #:** 200420    **Name:** Vertical Datum Note (translated)    **Type:** Text

**Text Content:** "VERTICAL DATUM...MEAN SEA LEVEL" (translated)

**Color:** Black

**Type Specification:** Zurich Condensed (5 point, Light, Upper Case)

**Note:** The vertical datum for all TM instances is Mean Sea Level.

---

**Index:** 10    **Ref #:** 200421    **Name:** Horizontal Datum Note (translated)    **Type:** Text

**Text Content:** "HORIZONTAL DATUM...[horizontalDatum]" (translated)

**Color:** Black

**Type Specification:** Zurich Condensed (5 point, Light, Upper Case)

**Note:** The horizontal datum for all TM instances is World Geodetic System 1984.

## Glossary

TM DPS AC Section: 3.6

### Metadata Elements

Name:	Substitution Value:	Description:
Glossary Terms and Definitions	termDefinition	The terms and definitions to be displayed in the glossary.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0039	Foreign Names/Terms Present	(Sheet contains foreign names or generic terms requiring translation.)

## Glossary (Single Language)

### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

### Version Notes:

A glossary consists of a Title followed by one or more Glossary Entries, as needed. Refer to TM DPS AC section 3.6 for further details on the contents of a glossary.

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

---

**Index:** 1    **Ref #:** 201201    **Name:** Glossary Title    **Type:** Text

**Text Content:** "GLOSSARY"

**Color:** Black

**Type Specification:** Zurich Condensed (9 point, Bold, Upper Case)

---

**Index:** 2    **Ref #:** 201202    **Name:** Glossary Entry    **Type:** Text

Text Content:	"[termDefinition.term]...[termDefinition.definition]"
Color:	Black
Type Specification:	Zurich Condensed (6 point, Light, Mixed Case)

## Glossary (Multiple Language)

### Style Sheet References:

TM 50: Arrangement B  
 TM 100: Arrangement B

### Version Notes:

A glossary consists of a Title followed by one or more Glossary Entries, as needed. Refer to TM DPS AC section 3.6 for further details on the contents of a glossary.

### Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index: 1	Ref #: 201201	Name: Glossary Title	Type: Text
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Text Content:	"GLOSSARY"
Color:	Black
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)

Index: 2	Ref #: 201203	Name: Glossary Title (translated)	Type: Text
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Text Content:	"GLOSSARY" (translated)
Color:	Black
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)

Index: 3	Ref #: 201202	Name: Glossary Entry	Type: Text
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Text Content:	"[termDefinition.term]...[termDefinition.definition]"
Color:	Black
Type Specification:	Zurich Condensed (6 point, Light, Mixed Case)

## Graticule - Inset

TM DPS AC Section: 3.3.1.7.4

### Metadata Elements

Name:	Substitution Value:	Description:
Inset Map Extent	insetMapExtent	The geographic extent(s) of the inset map(s).
Sheet Extent	sheetGeographicExtent	The geographic extent of the map sheet.
Projection	projection	The projection to be used for TM map sheets.
Ellipsoid	ellipsoid	The ellipsoid to be used for the TM instance.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0019	Inset present	([sheetGeographicExtent] includes inset.)

### Style Sheet References:

TM 50: Arrangement A  
 TM 100: Arrangement A

### Version Notes:

For TM geodetic reference information, refer to TM DPS AC section 3.3.1.

For more detail about the NGA display standards for grids and graticules, refer to:  
 NGA.STND.0037\_2.0\_GRIDS  
 NGA STANDARDIZATION DOCUMENT  
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

For more detail about the mathematic properties of the standard grid systems, refer to:

## Graticule - Primary Map

TM DPS AC Section: 3.3.1.5

### Metadata Elements

Name:	Substitution Value:	Description:
Primary Map Extent	primaryMapExtent	The geographic extent of the primary map.
Projection	projection	The projection to be used for TM map sheets.
Ellipsoid	ellipsoid	The ellipsoid to be used for the TM instance.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

For TM geodetic reference information, refer to TM DPS AC section 3.3.1.

For more detail about the NGA display standards for grids and graticules, refer to:  
 NGA.STND.0037\_2.0\_GRIDS  
 NGA STANDARDIZATION DOCUMENT  
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

For more detail about the mathematic properties of the standard grid systems, refer to:  
 NGA.RP.0002\_2.0\_UTMUPS  
 NGA STANDARDIZATION DOCUMENT  
 The Universal Grids Based on the Transverse Mercator and Polar Stereographic Map-  
 Projections (2013-09-07) Version 2.0

## Grid - Inset

TM DPS AC Section: 3.3.1.7.4

### Metadata Elements

Name:	Substitution Value:	Description:
Major Grid System	gridSystem	The grid system used for TM map sheets.
Sheet Extent	sheetGeographicExtent	The geographic extent of the map sheet.
Inset Map Extent	insetMapExtent	The geographic extent(s) of the inset map(s).
Inset Map Major Grid Zone	insetMapMajorGridZone	The major grid zone(s) to be shown on the TM inset map(s).
Inset Map Minor Grid Zone	insetMapMinorGridZone	The minor grid zone(s) to be shown on the TM inset map.
100,000m Grid Square Identifier	100kGridSquare	The 100,000m grid square identifier(s) overlapping this map extent.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0019	Inset present	([sheetGeographicExtent] includes inset.)

#### Style Sheet References:

#### Version Notes:

TM 50: Arrangement A

For TM geodetic reference information, refer to TM DPS AC section 3.3.1.

TM 100: Arrangement A

For more detail about the NGA display standards for grids and graticules, refer to:  
 NGA.STND.0037\_2.0\_GRIDS  
 NGA STANDARDIZATION DOCUMENT  
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

For more detail about the mathematic properties of the standard grid systems, refer to:  
 NGA.RP.0002\_2.0\_UTMUPS  
 NGA STANDARDIZATION DOCUMENT  
 The Universal Grids Based on the Transverse Mercator and Polar Stereographic Map-Projections (2013-09-07) Version 2.0

## Grid - Primary Map

TM DPS AC Section: 3.3.1.5

### Metadata Elements

Name:	Substitution Value:	Description:
Major Grid System	gridSystem	The grid system used for TM map sheets.
Primary Map Extent	primaryMapExtent	The geographic extent of the primary map.
Primary Map Major Grid Zone	primaryMapMajorGridZone	The major grid zone(s) to be shown on the TM primary map.
Primary Map Minor Grid Zone	primaryMapMinorGridZone	The minor grid zone(s) to be shown on the TM primary map.
100,000m Grid Square Identifier	100kGridSquare	The 100,000m grid square identifier(s) overlapping this map extent.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

For TM geodetic reference information, refer to TM DPS AC section 3.3.1.

For more detail about the NGA display standards for grids and graticules, refer to:  
 NGA.STND.0037\_2.0\_GRIDS  
 NGA STANDARDIZATION DOCUMENT  
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

For more detail about the mathematic properties of the standard grid systems, refer to:  
 NGA.RP.0002\_2.0\_UTMUPS  
 NGA STANDARDIZATION DOCUMENT  
 The Universal Grids Based on the Transverse Mercator and Polar Stereographic Map-Projections (2013-09-07) Version 2.0

For information on portrayal of grid zone junctions, refer to sub-annex B.9 of the TM DPS AC.

## Grid Reference Box

TM DPS AC Section: 3.3.1.4

### Metadata Elements

Name:	Substitution Value:	Description:
Primary Map Major Grid Zone Designation	primaryMapMajorGridZoneDesignation	The full designation, including latitude band, of the major grid zone(s) to be shown on the TM primary map.
100,000m Grid Square Identifier	100kGridSquare	The 100,000m grid square identifier(s) overlapping this map extent.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Grid Reference Box (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1    Ref #: 203101    Name: Grid Reference Box Graphic    Type: Graphic

[Symbol Graphic Reference](#)

**Note:** Refer to the following document for details on the construction of the grid reference box:

NGA.STND.0037\_2.0\_GRIDS  
 NGA STANDARDIZATION DOCUMENT  
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

## Grid Reference Box (Multiple Language)

#### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index: 1    Ref #: 203102    Name: Grid Reference Box Graphic (Translated)    Type: Graphic

[Symbol Graphic Reference](#)

**Note:** Refer to the following document for details on the construction of the grid reference box:

NGA.STND.0037\_2.0\_GRIDS  
 NGA STANDARDIZATION DOCUMENT  
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

## Horizontal Datum Note

TM DPS AC Section: 3.3.1.2

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Horizontal Datum	horizontalDatum	The horizontal datum to be applied to the TM instance/map sheet.

### Annotation Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0001	Always Include	TRUE

#### Style Sheet References:

TM 50: Arrangement A  
TM 100: Arrangement A

#### Version Notes:

(none)

### Components

<b>Index:</b> 1	<b>Ref #:</b> 200035	<b>Name:</b> Horizontal Datum Banner (Abbreviation)	<b>Type:</b> Text
<b>Text Content:</b>	"WGS 84"		
<b>Color:</b>	Dk-Brown1815		
<b>Type Specification:</b>	Zurich Condensed (20 point, Bold, Upper Case)		

## Identification Banner - Lower

TM DPS AC Section: 3.1.4

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Sheet Name	sheetName	The (unique) name of the TM map sheet.
Data Content - Countries Depicted	countriesShownOnSheet	The countries shown on the TM map sheet
Sheet Number	sheetNumber	The sheet number uniquely identifying a TM map sheet.
Series Number	seriesNumber	The series number uniquely identifying a TM map series.
Edition Number	editionNumber	The edition number of the TM map sheet.
Producing Agency Code	producingAgencyCode	The abbreviation for the producing agency.

### Annotation Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0001	Always Include	TRUE

#### Style Sheet References:

TM 50: Arrangement A  
TM 100: Arrangement A

#### Version Notes:

(none)

### Components

<b>Index:</b> 1	<b>Ref #:</b> 200036	<b>Name:</b> Lower Left Identification Banner	<b>Type:</b> Text
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Text Content: "[sheetName], [countriesShownOnSheet] [sheetNumber] [seriesNumber] EDITION [editionNumber]-[producingAgencyCode]"  
 Color: Black  
 Type Specification: Zurich Condensed (16 point, Bold, Upper Case)

## Identification Banner - Upper

TM DPS AC Section: 3.1.3

### Metadata Elements

Name:	Substitution Value:	Description:
Edition Number	editionNumber	The edition number of the TM map sheet.
Series Number	seriesNumber	The series number uniquely identifying a TM map series.
Sheet Number	sheetNumber	The sheet number uniquely identifying a TM map sheet.
Producing Agency Code	producingAgencyCode	The abbreviation for the producing agency.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Upper Right Identification Banner (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1	Ref #: 200106	Name: Edition Label	Type: Text
Text Content:	"EDITION"		
Color:	Black		
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)		
Index: 2	Ref #: 200105	Name: Edition Number	Type: Text
Text Content:	"[editionNumber]-[producingAgencyCode]"		
Color:	Black		
Type Specification:	Zurich Condensed (16 point, Bold, Upper Case)		
Index: 3	Ref #: 200104	Name: Series Label	Type: Text
Text Content:	"SERIES"		
Color:	Black		
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)		
Index: 4	Ref #: 200103	Name: Series Number	Type: Text
Text Content:	"[seriesNumber]"		
Color:	Black		
Type Specification:	Zurich Condensed (16 point, Bold, Upper Case)		
Index: 5	Ref #: 200102	Name: Sheet Label	Type: Text

Text Content: "SHEET"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

---

Index: 6 Ref #: 200101 Name: Sheet Number Type: Text

Text Content: "[sheetNumber]"  
 Color: Black  
 Type Specification: Zurich Condensed (16 point, Bold, Upper Case)

## Upper Right Identification Banner (Multiple Language)

### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

---

Index: 1 Ref #: 200106 Name: Edition Label Type: Text

Text Content: "EDITION"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

---

Index: 2 Ref #: 200107 Name: Edition Label (Translated) Type: Text

Text Content: "EDITION" (translation)  
 Color: Black  
 Type Specification: Zurich Condensed (8 point, Light, Upper Case)

---

Index: 3 Ref #: 200105 Name: Edition Number Type: Text

Text Content: "[editionNumber]-[producingAgencyCode]"  
 Color: Black  
 Type Specification: Zurich Condensed (16 point, Bold, Upper Case)

---

Index: 4 Ref #: 200104 Name: Series Label Type: Text

Text Content: "SERIES"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

---

Index: 5 Ref #: 200108 Name: Series Label (Translated) Type: Text

Text Content: "SERIES" (translation)  
 Color: Black  
 Type Specification: Zurich Condensed (8 point, Light, Upper Case)

---

Index: 6 Ref #: 200103 Name: Series Number Type: Text

Text Content: "[seriesNumber]"  
 Color: Black  
 Type Specification: Zurich Condensed (16 point, Bold, Upper Case)

---

Index: 7 Ref #: 200102 Name: Sheet Label Type: Text

Text Content: "SHEET"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

---

Index: 8 Ref #: 200109 Name: Sheet Label (Translated) Type: Text

Text Content: "SHEET" (translation)  
 Color: Black  
 Type Specification: Zurich Condensed (8 point, Light, Upper Case)

---

Index: 9 Ref #: 200101 Name: Sheet Number Type: Text

Text Content: "[sheetNumber]"  
 Color: Black  
 Type Specification: Zurich Condensed (16 point, Bold, Upper Case)

## Inset Declination Information

TM DPS AC Section: 3.3.1.7.2

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Extent	sheetGeographicExtent	The geographic extent of the map sheet.
Inset Map Major Grid Zone Designation	insetMapMajorGridZoneDesignation	The full designation, including latitude band, of the major grid zone(s) to be shown on the TM inset map.
Inset Map Minor Grid Zone Designation	insetMapMinorGridZoneDesignation	The full designation, including latitude band, of the minor grid zone(s) to be shown on the TM inset map.
Inset Map Major Grid Convergence Info	insetMapMajorGridConvergenceInfo	The grid convergence information for the major grid zone shown on the inset map(s).
Inset Map Minor Grid Convergence Info	insetMapMinorGridConvergenceInfo	The grid convergence information for the minor grid zone shown on the inset map(s).
Inset Map Major Grid Magnetic Angle Info	insetMapMajorGridMagneticAngleInfo	The magnetic angle(s) for the major grid(s) on the inset map.
Inset Map Minor Grid Magnetic Angle Info	insetMapMinorGridMagneticAngleInfo	The magnetic angle(s) for the minor grid(s) on the inset map.
Epoch Date	epochDate	The standard epoch year (divisible by five, such as 2010, 2015, etc.) of latest isogonic data.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0019	Inset present	([sheetGeographicExtent] includes inset.)

## Inset Declination Notes (Single Grid, Single Language)

Style Sheet References:	Version Notes:
TM 50: Arrangement A	(none)
TM 100: Arrangement A	

### Version Rules

Reference #:	Description:	Criteria:
AC-0014	Single Grid Zone (Inset Map)	[insetMapMinorGridZoneDesignation] is Null
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

---

Index: 1 Ref #: 201601 Name: Inset Grid Convergence Note (Single Grid) Type: Text

Text Content: "GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS [insetMapMajorGridConvergenceInfo]"

Color: Black

Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

---

Index: 2    Ref #: 201605    Name: Inset Grid Magnetic Note (Single Grid)    Type: Text

Text Content: "GRID TO MAGNETIC DECLINATION FOR [epochDate] IS [insetMapMajorGridMagneticAngleInfo] OVER THE ENTIRE INSET"

Color: Black

Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

## Inset Declination Notes (Single Grid, Multiple Language)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0014	Single Grid Zone (Inset Map)	[insetMapMinorGridZoneDesignation] is Null
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

---

Index: 1    Ref #: 201601    Name: Inset Grid Convergence Note (Single Grid)    Type: Text

Text Content: "GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS [insetMapMajorGridConvergenceInfo]"

Color: Black

Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

---

Index: 2    Ref #: 201602    Name: Inset Grid Convergence Note (Single Grid, Translated)    Type: Text

Text Content: "GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS [insetMapMajorGridConvergenceInfo]" (translated)

Color: Black

Type Specification: Zurich Condensed (6 point, Light, Upper Case)

---

Index: 3    Ref #: 201605    Name: Inset Grid Magnetic Note (Single Grid)    Type: Text

Text Content: "GRID TO MAGNETIC DECLINATION FOR [epochDate] IS [insetMapMajorGridMagneticAngleInfo] OVER THE ENTIRE INSET"

Color: Black

Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

---

Index: 4    Ref #: 201606    Name: Inset Grid Magnetic Note (Single Grid, Translated)    Type: Text

Text Content: "GRID TO MAGNETIC DECLINATION FOR [epochDate] IS [insetMapMajorGridMagneticAngleInfo] OVER THE ENTIRE INSET" (translated)

Color: Black

Type Specification: Zurich Condensed (6 point, Light, Upper Case)

## Inset Declination Notes (Multiple Grid, Single Language)

### Style Sheet References:

TM 50: (none)

### Version Notes:

(none)

TM 100: (none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0015	Multiple Grid Zone (Inset Map)	[insetMapMinorGridZoneDesignation] is Not Null
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index:	Ref #:	Name:	Type:
1	201603	Inset Grid Convergence Note (Multiple Grid)	Text
Text Content:		"GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS: [insetMapMajorGridZoneDesignation] IS [insetMapMajorGridConvergenceInfo] ; [insetMapMinorGridZoneDesignation] IS [insetMapMinorGridConvergenceInfo]"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
2	201607	Inset Grid Magnetic Note (Multiple Grid)	Text
Text Content:		"GRID TO MAGNETIC DECLINATION FOR [epochDate] IS: [insetMapMajorGridZoneDesignation] IS [insetMapMajorGridMagneticAngleInfo]; [insetMapMinorGridZoneDesignation] IS [insetMapMinorGridMagneticAngleInfo] OVER THE ENTIRE INSET."	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	

## Inset Declination Notes (Multiple Grid, Multiple Language)

## Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0015	Multiple Grid Zone (Inset Map)	[insetMapMinorGridZoneDesignation] is Not Null
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index:	Ref #:	Name:	Type:
1	201603	Inset Grid Convergence Note (Multiple Grid)	Text
Text Content:		"GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS: [insetMapMajorGridZoneDesignation] IS [insetMapMajorGridConvergenceInfo] ; [insetMapMinorGridZoneDesignation] IS [insetMapMinorGridConvergenceInfo]"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
2	201604	Inset Grid Convergence Note (Multiple Grid, Translated)	Text
Text Content:		"GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS: [insetMapMajorGridZoneDesignation] IS [insetMapMajorGridConvergenceInfo] ; [insetMapMinorGridZoneDesignation] IS [insetMapMinorGridConvergenceInfo]" (translated)	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Light, Upper Case)	
3	201607	Inset Grid Magnetic Note (Multiple Grid)	Text

Text Content:	"GRID TO MAGNETIC DECLINATION FOR [epochDate] IS: [insetMapMajorGridZoneDesignation] IS [insetMapMajorGridMagneticAngleInfo]; [insetMapMinorGridZoneDesignation] IS [insetMapMinorGridMagneticAngleInfo] OVER THE ENTIRE INSET."
Color:	Black
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)

Index: 4 Ref #: 201608 Name: Inset Grid Magnetic Note (Multiple Grid, Translated) Type: Text

Text Content:	"GRID TO MAGNETIC DECLINATION FOR [epochDate] IS: [insetMapMajorGridZoneDesignation] IS [insetMapMajorGridMagneticAngleInfo]; [insetMapMinorGridZoneDesignation] IS [insetMapMinorGridMagneticAngleInfo] OVER THE ENTIRE INSET." (translated)
Color:	Black
Type Specification:	Zurich Condensed (6 point, Light, Upper Case)

## Inset Grid Note

TM DPS AC Section: 3.3.1.7.1

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Extent	sheetGeographicExtent	The geographic extent of the map sheet.
Inset Map Major Grid Zone Designation	insetMapMajorGridZoneDesignation	The full designation, including latitude band, of the major grid zone(s) to be shown on the TM inset map.
Inset Map Minor Grid Zone Designation	insetMapMinorGridZoneDesignation	The full designation, including latitude band, of the minor grid zone(s) to be shown on the TM inset map.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0019	Inset present	([sheetGeographicExtent] includes inset.)

## Inset Grid Note (Single Grid, Single Language)

### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0014	Single Grid Zone (Inset Map)	[insetMapMinorGridZoneDesignation] is Null
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1 Ref #: 201702 Name: Inset Grid Note (Single Grid) Type: Text

Text Content:	"GRID...1,000 METER UTM ZONE [insetMapMajorGridZoneDesignation]"
Color:	Black
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)

## Inset Grid Note (Single Grid, Multiple Language)

### Style Sheet References:

TM 50: (none)

TM 100: (none)

### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0014	Single Grid Zone (Inset Map)	[insetMapMinorGridZoneDesignation] is Null
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index:	Ref #:	Name:	Type:
1	201702	Inset Grid Note (Single Grid)	Text
Text Content:		"GRID...1,000 METER UTM ZONE [insetMapMajorGridZoneDesignation]"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	

Index:	Ref #:	Name:	Type:
2	201704	Inset Grid Note (Single Grid, Translated)	Text
Text Content:		"GRID...1,000 METER UTM ZONE [insetMapMajorGridZoneDesignation]" (translated)	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Light, Upper Case)	

### Inset Grid Note (Multiple Grid, Single Language)

#### Style Sheet References:

TM 50: (none)

TM 100: (none)

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0015	Multiple Grid Zone (Inset Map)	[insetMapMinorGridZoneDesignation] is Not Null
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index:	Ref #:	Name:	Type:
1	202203	Inset Map Multiple Grid Note	Text
Text Content:		"GRID...1,000 METER UTM ZONE [insetMapMajorGridZoneDesignation] (BLACK NUMBERED LINES) 1,000 METER UTM ZONE [insetMapMinorGridZoneDesignation] (BLUE NUMBERED TICKS)"	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
Note: For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the TM DPS AC.			

### Inset Grid Note (Multiple Grid, Multiple-Language)

#### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0015	Multiple Grid Zone (Inset Map)	[insetMapMinorGridZoneDesignation] is Not Null
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index:	Ref #:	Name:	Type:
1	202203	Inset Map Multiple Grid Note	Text

**Text Content:** "GRID...1,000 METER UTM ZONE [insetMapMajorGridZoneDesignation] (BLACK NUMBERED LINES) 1,000 METER UTM ZONE [insetMapMinorGridZoneDesignation] (BLUE NUMBERED TICKS)"

**Color:** Black

**Type Specification:** Zurich Condensed (6 point, Medium, Upper Case)

**Note:** For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the TM DPS AC.

---

**Index:** 2    **Ref #:** 202204    **Name:** Inset Map Multiple Grid Note (Translated)    **Type:** Text

**Text Content:** "GRID...1,000 METER UTM ZONE [insetMapMajorGridZoneDesignation] (BLACK NUMBERED LINES) 1,000 METER UTM ZONE [insetMapMinorGridZoneDesignation] (BLUE NUMBERED TICKS)" (translate

**Color:** Black

**Type Specification:** Zurich Condensed (6 point, Light, Upper Case)

**Note:** For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the TM DPS AC.

## JOG-A Note

TM DPS AC Section: 3.3.6.1.9

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Number	sheetNumber	The sheet number uniquely identifying a TM map sheet.
JOG Sheet Number	jogSheetNumber	The JOG sheet number to which the area of the TM map sheet corresponds.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

### Version Notes:

The JOG-A note will be shown below the Adjoining Sheets Diagram.

### Components

---

**Index:** 1    **Ref #:** 202701    **Name:** JOG-A Note    **Type:** Text

**Text Content:** "Sheet [sheetNumber] falls within [jogSheetNumber], 1501A, 1:250,000."

**Color:** Black

**Type Specification:** Zurich Condensed (5 point, Medium, Mixed Case)

## Latitude Equivalency Note

TM DPS AC Section: 3.3.1.6

### Metadata Elements

Name:	Substitution Value:	Description:
Latitude Second Equivalence	latSecondEquiv	The equivalent distance in meters for one second of latitude, given the extent/geodetic information of the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Latitude Equivalency Note (Single Language)

### Style Sheet References:

### Version Notes:

TM 50: Arrangement A (none)

TM 100: Arrangement A

## Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index: 1	Ref #: 200038	Name: Latitude Equivalency Note	Type: Text
Text Content:	"One second of latitude equals [latSecondEquiv]m"		
Color:	Black		
Type Specification:	Zurich Condensed (6 point, Light Italic, Mixed Case)		

## Latitude Equivalency Note (Multiple Language)

## Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index: 1	Ref #: 200038	Name: Latitude Equivalency Note	Type: Text
Text Content:	"One second of latitude equals [latSecondEquiv]m"		
Color:	Black		
Type Specification:	Zurich Condensed (6 point, Light Italic, Mixed Case)		
Index: 2	Ref #: 202009	Name: Latitude Equivalency Note (Translated)	Type: Text
Text Content:	"One second of latitude equals [latSecondEquiv]m" (translated)		
Color:	Black		
Type Specification:	Zurich Condensed (6 point, Light Italic, Mixed Case)		

## Longitude Equivalency Note

TM DPS AC Section: 3.3.1.6

## Metadata Elements

Name:	Substitution Value:	Description:
Longitude Second Equivalence	lonSecondEquiv	The equivalent distance in meters for one second of longitude, given the extent/geodetic information of the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

## Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Longitude Equivalency Note (Single Language)

## Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index:	1	Ref #:	200039	Name:	Longitude Equivalency Note	Type:	Text
Text Content:	"One second of longitude equals [lonSecondEquiv]m"						
Color:	Black						
Type Specification:	Zurich Condensed (6 point, Light Italic, Mixed Case)						

## Longitude Equivalency Note (Multiple Language)

## Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index:	1	Ref #:	200039	Name:	Longitude Equivalency Note	Type:	Text
Text Content:	"One second of longitude equals [lonSecondEquiv]m"						
Color:	Black						
Type Specification:	Zurich Condensed (6 point, Light Italic, Mixed Case)						
Index:	2	Ref #:	202010	Name:	Longitude Equivalency Note (Translated)	Type:	Text
Text Content:	"One second of longitude equals [lonSecondEquiv]m" (translated)						
Color:	Black						
Type Specification:	Zurich Condensed (6 point, Light Italic, Mixed Case)						

## Map Series Name and Scale

TM DPS AC Section: 3.1.2

## Metadata Elements

Name:	Substitution Value:	Description:
Series Name	seriesName	The name of the map series.
Sheet Scale	displayScale	The scale (representative fraction) of the map sheet.

## Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

## Version Notes:

(none)

## Components

Index: 1 Ref #: 200002 Name: Series Name and Scale Note Type: Text

Text Content: "[seriesName] TOPOGRAPHIC MAP 1:[displayScale.equivalentScale.denominator]"

Color: Black

Type Specification: Zurich Condensed (16 point, Bold, Upper Case)

## Map Sheet Name

TM DPS AC Section: 3.1.1

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Name	sheetName	The (unique) name of the TM map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

(none)

### Components

Index: 1 Ref #: 200001 Name: Sheet Name Note Type: Text

Text Content: "[sheetName]"

Color: Black

Type Specification: Zurich Condensed (24 point, Bold, Upper Case)

## Miscellaneous Notes

TM DPS AC Section: 3.7

### Metadata Elements

Name:	Substitution Value:	Description:
Miscellaneous Note Text	noteText	The text of the miscellaneous notes to appear on the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Miscellaneous Notes Box (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

The Miscellaneous Notes Box consists of a series of standard notes and less common notes, as needed. Refer to TM DPS AC section 3.7.2 for the conditions and text of various less common notes.

When needed, the following Notes will be placed in the Miscellaneous Notes Box:

- Names Disclaimer Note
- Slope Guide Flat Area Note

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index: 1	Ref #: 201301	Name: Miscellaneous Notes Box Title	Type: Text
Text Content:	"NOTES"		
Color:	Black		
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)		
Index: 2	Ref #: 201305	Name: Standard Notes	Type: Text
Text Content:	<p>"A LANE ON THIS MAP IS CONSIDERED TO BE AT LEAST 2.5 METERS (8.2 FEET) WIDE.</p> <p>ROAD CLASSIFICATION SHOULD BE REFERRED TO WITH CAUTION. SEE LEGEND FOR LINEAR MEASUREMENTS ALONG SOME SYMBOLS.</p> <p>ONLY FORDS ALONG ROADS CROSSING PERENNIAL DRAINAGE ARE SHOWN.</p> <p>ONLY THROUGH ROUTES ARE CLASSIFIED IN BUILT-UP AREAS.</p> <p>CAUTION: NOT ALL COMMUNICATION AND POWER DISTRIBUTION LINES ARE SHOWN.</p> <p>THE NORMAL RAILWAY GAUGE IS [0.00] METERS [(0' 0")].</p> <p>TO CONVERT METERS TO FEET USE THIS FACTOR: 1 METER = 3.28 FEET."</p>		
Color:	Black		
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)		
Index: 3	Ref #: 201302	Name: Less Common Note	Type: Text
Text Content:	"[noteText[...]]"		
Color:	Black		
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)		
Note:	If the "CAUTION: CABLE/CABLEWAY PYLONS INDICATED BY THE VERTICAL OBSTRUCTION SYMBOL..." note is present, it shall be portrayed in Blue072 (aero blue) color.		

## Miscellaneous Notes Box (Multiple Language)

## Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

## Version Notes:

The Miscellaneous Notes Box consists of a series of standard notes and less common notes, as needed. Refer to TM DPS AC section 3.7.2 for the conditions and text of various less common notes.

When needed, the following Notes will be placed in the Miscellaneous Notes Box:

- Names Disclaimer Note
- Slope Guide Flat Area Note

## Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index: 1	Ref #: 201301	Name: Miscellaneous Notes Box Title	Type: Text
Text Content:	"NOTES"		
Color:	Black		
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)		
Index: 2	Ref #: 201303	Name: Miscellaneous Notes Box Title (Translated)	Type: Text
Text Content:	"NOTES" (translated)		
Color:	Black		
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)		

Index: 3	Ref #: 201305	Name: Standard Notes	Type: Text
Text Content:	<p>"A LANE ON THIS MAP IS CONSIDERED TO BE AT LEAST 2.5 METERS (8.2 FEET) WIDE.</p> <p>ROAD CLASSIFICATION SHOULD BE REFERRED TO WITH CAUTION. SEE LEGEND FOR LINEAR MEASUREMENTS ALONG SOME SYMBOLS.</p> <p>ONLY FORDS ALONG ROADS CROSSING PERENNIAL DRAINAGE ARE SHOWN.</p> <p>ONLY THROUGH ROUTES ARE CLASSIFIED IN BUILT-UP AREAS.</p> <p>CAUTION: NOT ALL COMMUNICATION AND POWER DISTRIBUTION LINES ARE SHOWN.</p> <p>THE NORMAL RAILWAY GAUGE IS [0.00] METERS [(0' 0")].</p> <p>TO CONVERT METERS TO FEET USE THIS FACTOR: 1 METER = 3.28 FEET."</p>		
Color:	Black		
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)		
Index: 4	Ref #: 201306	Name: Standard Notes (Translated)	Type: Text
Text Content:	<p>"A LANE ON THIS MAP IS CONSIDERED TO BE AT LEAST 2.5 METERS (8.2 FEET) WIDE.</p> <p>ROAD CLASSIFICATION SHOULD BE REFERRED TO WITH CAUTION. SEE LEGEND FOR LINEAR MEASUREMENTS ALONG SOME SYMBOLS.</p> <p>ONLY FORDS ALONG ROADS CROSSING PERENNIAL DRAINAGE ARE SHOWN.</p> <p>ONLY THROUGH ROUTES ARE CLASSIFIED IN BUILT-UP AREAS.</p> <p>CAUTION: NOT ALL COMMUNICATION AND POWER DISTRIBUTION LINES ARE SHOWN.</p> <p>THE NORMAL RAILWAY GAUGE IS [0.00] METERS [(0' 0")].</p> <p>TO CONVERT METERS TO FEET USE THIS FACTOR: 1 METER = 3.28 FEET." (translated)</p>		
Color:	Black		
Type Specification:	Zurich Condensed (6 point, Light, Upper Case)		
Index: 5	Ref #: 201302	Name: Less Common Note	Type: Text
Text Content:	"[noteText[...]]"		
Color:	Black		
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)		
Note:	If the "CAUTION: CABLE/CABLEWAY PYLONS INDICATED BY THE VERTICAL OBSTRUCTION SYMBOL..." note is present, it shall be portrayed in Blue072 (aero blue) color.		
Index: 6	Ref #: 201304	Name: Less Common Note (Translated)	Type: Text
Text Content:	"[noteText[...]]" (translated)		
Color:	Black		
Type Specification:	Zurich Condensed (6 point, Light, Upper Case)		
Note:	If the "CAUTION: CABLE/CABLEWAY PYLONS INDICATED BY THE VERTICAL OBSTRUCTION SYMBOL..." note is present, it shall be portrayed in Blue072 (aero blue) color.		

## Names Disclaimer Note

TM DPS AC Section: 3.4.1.2

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Data Content	dataContent	The data content represented on the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0016	Name Representation Not Authoritative	((dataContent) contains names that do not necessarily reflect the officially recognized political status or sovereignty of the areas concerned.)

## Names Disclaimer Note (Single Language)

#### Style Sheet References:

TM 50: (none)

TM 100: (none)

#### Version Notes:

When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the type specification and color of other notes there.

### Version Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

<b>Index:</b> 1	<b>Ref #:</b> 200027	<b>Name:</b> Names Disclaimer Note	<b>Type:</b> Text
<b>Text Content:</b>	"GEOGRAPHIC NAMES OR THEIR SPELLING DO NOT NECESSARILY REFLECT RECOGNITION OF THE POLITICAL STATUS OF AN AREA BY THE UNITED STATES GOVERNMENT."		
<b>Color:</b>	Black		
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)		

## Names Disclaimer Note (Multiple Language)

#### Style Sheet References:

TM 50: (none)

TM 100: (none)

#### Version Notes:

When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the type specification and color of other notes there.

### Version Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

<b>Index:</b> 1	<b>Ref #:</b> 200027	<b>Name:</b> Names Disclaimer Note	<b>Type:</b> Text
<b>Text Content:</b>	"GEOGRAPHIC NAMES OR THEIR SPELLING DO NOT NECESSARILY REFLECT RECOGNITION OF THE POLITICAL STATUS OF AN AREA BY THE UNITED STATES GOVERNMENT."		
<b>Color:</b>	Black		
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)		
<b>Index:</b> 2	<b>Ref #:</b> 202007	<b>Name:</b> Names Disclaimer Note (Translated)	<b>Type:</b> Text
<b>Text Content:</b>	"GEOGRAPHIC NAMES OR THEIR SPELLING DO NOT NECESSARILY REFLECT RECOGNITION OF THE POLITICAL STATUS OF AN AREA BY THE UNITED STATES GOVERNMENT." (translated)		
<b>Color:</b>	Black		
<b>Type Specification:</b>	Zurich Condensed (6 point, Light, Upper Case)		

## Printing/Plotting Note

TM DPS AC Section: 3.1.7.3

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Printing Date	printingDate	The printing or plotting date (MM_YY) of the TM map sheet.
Printing Agency	printingAgency	The agency responsible for printing or plotting the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Printing/Plotting Note (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

This note will appear at the bottom of the Composite Notes Box.

### Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index:	Ref #:	Name:	Type:
1	200010	Printing Note	Text
<b>Text Content:</b>		"PRINTED/PLOTTED BY ..... [printingAgency] [printingDate]"	
<b>Color:</b>		Black	
<b>Type Specification:</b>		Zurich Condensed (6 point, Medium, Upper Case)	

## Printing/Plotting Note (Multiple Language)

#### Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

#### Version Notes:

This note will appear at the bottom of the Composite Notes Box.

### Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index:	Ref #:	Name:	Type:
1	200010	Printing Note	Text
<b>Text Content:</b>		"PRINTED/PLOTTED BY ..... [printingAgency] [printingDate]"	
<b>Color:</b>		Black	
<b>Type Specification:</b>		Zurich Condensed (6 point, Medium, Upper Case)	
2	202003	Printing Note (Translated)	Text
<b>Text Content:</b>		"PRINTED/PLOTTED BY ..... [printingAgency] [printingDate]" (translated)	
<b>Color:</b>		Black	
<b>Type Specification:</b>		Zurich Condensed (5 point, Light, Upper Case)	

## Producer Seal

TM DPS AC Section: 3.1.6

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Producing Agency	producingAgency	The agency responsible for producing the TM map sheet.

### Annotation Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0001	Always Include	TRUE

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

(none)

### Components

<b>Index:</b> 1	<b>Ref #:</b> 200007	<b>Name:</b> Producer Seal Graphic	<b>Type:</b> Graphic
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[Symbol Graphic Reference](#)

(Producer Seal graphic filename)

## Publication Note and Credit Listings

TM DPS AC Section: 3.1.7.1

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Producing Agency	producingAgency	The agency responsible for producing the TM map sheet.
Sheet Production Date	productionDate	The production date (YYYY) of the file used to make the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0001	Always Include	TRUE

### Publication Note (Single Language)

#### Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

#### Version Notes:

(none)

### Version Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

<b>Index:</b> 1	<b>Ref #:</b> 200008	<b>Name:</b> Publication Note	<b>Type:</b> Text
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**Text Content:** "Prepared and published in [productionDate] by [producingAgency]"

**Color:** Black

**Type Specification:** Zurich Condensed (8 point, Medium, Mixed Case)

### Publication Note (Multiple Language)

## Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index:	Ref #:	Name:	Type:
1	200008	Publication Note	Text

Text Content: "Prepared and published in [productionDate] by [producingAgency]"

Color: Black

Type Specification: Zurich Condensed (8 point, Medium, Mixed Case)

Index:	Ref #:	Name:	Type:
2	202001	Publication Note (Translated)	Text

Text Content: "Prepared and published in [productionDate] by [producingAgency]" (translated)

Color: Black

Type Specification: Zurich Condensed (8 point, Light, Mixed Case)

## Restricted Dissemination/LIMITED DISTRIBUTION Note

TM DPS AC Section: 3.2.1.2

## Metadata Elements

Name:	Substitution Value:	Description:
Limited Distribution Note Required	sheetLimDisNoteRequired	Whether or not a limited distribution note is required for this TM instance/map sheet.
Limited Distribution Note Text	limDisNoteText	The text of the Limited Distribution Note as required by supplementary instructions.
Special Handling Information	sheetSpecialHandlingInfo	Any security caveats or special handling instructions related to the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

## Annotation Rules

Reference #:	Description:	Criteria:
AC-0025	Limited Distribution	[sheetLimDisNoteRequired] = TRUE

## Restricted Dissemination Marking (No Special Handling, Single Language)

## Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0023	No Special Handling	[sheetSpecialHandlingInfo] Is Null
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index:	Ref #:	Name:	Type:
1	200311	Limited Distribution Heading	Text

Text Content: "LIMITED DISTRIBUTION"

Color: Dk-Brown1815

Type Specification: Zurich Condensed (14 point, Bold, Upper Case)

Index: 2	Ref #: 200312	Name: Limited Distribution Note	Type: Text
Text Content:	"[limDisNoteText]"		
Color:	Dk-Brown1815		
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)		

## Restricted Dissemination Marking (Special Handling, Single Language)

Style Sheet References:	Version Notes:
TM 50: (none)	(none)
TM 100: (none)	

### Version Rules

Reference #:	Description:	Criteria:
AC-0033	Special Handling	[sheetSpecialHandlingInfo] Is Not Null
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1	Ref #: 200311	Name: Limited Distribution Heading	Type: Text
Text Content:	"LIMITED DISTRIBUTION"		
Color:	Dk-Brown1815		
Type Specification:	Zurich Condensed (14 point, Bold, Upper Case)		
Index: 2	Ref #: 200312	Name: Limited Distribution Note	Type: Text
Text Content:	"[limDisNoteText]"		
Color:	Dk-Brown1815		
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)		
Index: 3	Ref #: 200212	Name: Caveat/Special Handling Note	Type: Text
Text Content:	"[sheetSpecialHandlingInfo]"		
Color:	Dk-Brown1815		
Type Specification:	Zurich Condensed (10 point, Bold, Upper Case)		

## Restricted Dissemination Marking (Multiple Language)

Style Sheet References:	Version Notes:
TM 50: Arrangement B	(none)
TM 100: Arrangement B	

### Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index: 1	Ref #: 200311	Name: Limited Distribution Heading	Type: Text
Text Content:	"LIMITED DISTRIBUTION"		
Color:	Dk-Brown1815		
Type Specification:	Zurich Condensed (14 point, Bold, Upper Case)		
Index: 2	Ref #: 200313	Name: Limited Distribution Heading (translated)	Type: Text

Text Content: "LIMITED DISTRIBUTION" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (14 point, Medium, Upper Case)

---

Index: 3    Ref #: 200312    Name: Limited Distribution Note    Type: Text

Text Content: "[limDisNoteText]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

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Index: 4    Ref #: 200314    Name: Limited Distribution Note (translated)    Type: Text

Text Content: "[limDisNoteText]" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (6 point, Light, Upper Case)

## Road and Railway Objectives

TM DPS AC Section: 3.9

### Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the TM map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0018	Lines of transportation present	([dataContent] contains transportation lines.)

#### Style Sheet References:

TM 50: Arrangement A  
 TM 100: Arrangement A

#### Version Notes:

Refer to TM DPS AC section 3.9 for detailed instructions on the display of distant road/railway objectives.

## Scale Note

TM DPS AC Section: 3.3.2.1

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Scale	displayScale	The scale (representative fraction) of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Scale Note (Single Language)

#### Style Sheet References:

TM 50: Arrangement A  
 TM 100: Arrangement A

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
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AC-0002      Single-language      [displayLanguage.count] = 1

### Components

**Index:** 1    **Ref #:** 200018    **Name:** Scale Note    **Type:** Text

**Text Content:** "Scale 1:[displayScale.equivalentScale.denominator]"  
**Color:** Black  
**Type Specification:** Zurich Condensed (9 point, Bold, Mixed Case)

### Scale Note (Multiple Language)

#### Style Sheet References:

TM 50: Arrangement B  
 TM 100: Arrangement B

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

**Index:** 1    **Ref #:** 200018    **Name:** Scale Note    **Type:** Text

**Text Content:** "Scale 1:[displayScale.equivalentScale.denominator]"  
**Color:** Black  
**Type Specification:** Zurich Condensed (9 point, Bold, Mixed Case)

**Index:** 2    **Ref #:** 202004    **Name:** Scale Note (Translated)    **Type:** Text

**Text Content:** "Scale 1:[displayScale.equivalentScale.denominator]" (translated)  
**Color:** Black  
**Type Specification:** Zurich Condensed (9 point, Medium, Mixed Case)

### Scale Verification Note

TM DPS AC Section: 3.3.2.3

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Scale	displayScale	The scale (representative fraction) of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

### Scale Verification Note (1:50K, Single Language)

#### Style Sheet References:

TM 50: Arrangement A  
 TM 100: (none)

#### Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0007	1:50K	[displayScale.equivalentScale] = 1:50,000
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1 Ref #: 202501 Name: Scale Verification Note 1:50K Type: Text

Text Content: "TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 10,000 METERS (10 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS (7.87 INCHES)."

Color: Black

Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

## Scale Verification Note (1:50K, Multiple Language)

### Style Sheet References:

TM 50: Arrangement B

TM 100: (none)

### Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0007	1:50K	$[\text{displayScale.equivalentScale}] = 1:50,000$
AC-0003	Multiple-language	$[\text{displayLanguage.count}] > 1$

## Components

Index: 1 Ref #: 202501 Name: Scale Verification Note 1:50K Type: Text

Text Content: "TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 10,000 METERS (10 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS (7.87 INCHES)."

Color: Black

Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

Index: 2 Ref #: 202502 Name: Scale Verification Note 1:50K (Translated) Type: Text

Text Content: "TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 10,000 METERS (10 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS (7.87 INCHES)." (translated)

Color: Black

Type Specification: Zurich Condensed (6 point, Light, Upper Case)

## Scale Verification Note (1:100K, Single Language)

### Style Sheet References:

TM 50: (none)

TM 100: Arrangement A

### Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0008	1:100K	$[\text{displayScale.equivalentScale}] = 1:100,000$
AC-0002	Single-language	$[\text{displayLanguage.count}] = 1$

## Components

Index: 1 Ref #: 202503 Name: Scale Verification Note 1:100K Type: Text

Text Content: "TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 20,000 METERS (20 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS (7.87 INCHES)."

Color: Black

Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

## Scale Verification Note (1:100K, Multiple Language)

### Style Sheet References:

### Version Notes:

TM 50: (none)

(none)

TM 100: Arrangement B

## Version Rules

Reference #:	Description:	Criteria:
AC-0008	1:100K	[displayScale.equivalentScale] = 1:100,000
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index:	Ref #:	Name:	Type:
1	202503	Scale Verification Note 1:100K	Text
Text Content:		"TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 20,000 METERS (20 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS (7.87 INCHES)."	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
2	202504	Scale Verification Note 1:100K (Translated)	Text
Text Content:		"TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 20,000 METERS (20 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS (7.87 INCHES)." (translated)	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Light, Upper Case)	

## Slope Guide

TM DPS AC Section: 3.3.5

## Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the TM map sheet.
Sheet Scale	displayScale	The scale (representative fraction) of the map sheet.
Data Content - Intermediate Contour Interval	contourInterval.intermediate	The primary (intermediate) contour interval represented by the contour data for the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

## Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Slope Guide Diagram, 5/10 Meter Contours (Single Language)

Style Sheet References:

Version Notes:

TM 50: Arrangement A

(none)

TM 100: Arrangement A

## Version Rules

Reference #:	Description:	Criteria:
AC-0027	Slopes greater than 5% present	([dataContent] includes slopes > 5%.)
AC-0040	Primary Contour Interval 5 (10) Meters	([displayScale.equivalentScale] = 1:50,000 AND [contourInterval.intermediate] = 5) OR ([displayScale.equivalentScale] = 1:100,000 AND [contourInterval.intermediate] = 10))
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index:	Ref #:	Name:	Type:
1	202801	Slope Guide Title	Text

Text Content: "SLOPE GUIDE"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Bold, Upper Case)

Index: 2 Ref #: 202803 Name: Slope Guide Diagram (5/10 m) Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM DPS AC, Appendix B.8, for detailed instructions.

## Slope Guide Diagram, 5/10 Meter Contours (Multiple Language)

Style Sheet References:

Version Notes:

TM 50: (none)

(none)

TM 100: (none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0027	Slopes greater than 5% present	[[dataContent] includes slopes > 5%.)
AC-0040	Primary Contour Interval 5 (10) Meters	[[displayScale.equivalentScale] = 1:50,000 AND [contourInterval.intermediate] = 5) OR [[displayScale.equivalentScale] = 1:100,000 AND [contourInterval.intermediate] = 10))
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

Index: 1 Ref #: 202801 Name: Slope Guide Title Type: Text

Text Content: "SLOPE GUIDE"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Bold, Upper Case)

Index: 2 Ref #: 202802 Name: Slope Guide Title (Translated) Type: Text

Text Content: "SLOPE GUIDE" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

Index: 3 Ref #: 202803 Name: Slope Guide Diagram (5/10 m) Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM DPS AC, Appendix B.8, for detailed instructions.

## Slope Guide Diagram, 10/20 Meter Contours (Single Language)

Style Sheet References:

Version Notes:

TM 50: (none)

(none)

TM 100: (none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0027	Slopes greater than 5% present	[[dataContent] includes slopes > 5%.)
AC-0041	Primary Contour Interval 10 (20) Meters	[[displayScale.equivalentScale] = 1:50,000 AND [contourInterval.intermediate] = 10) OR [[displayScale.equivalentScale] = 1:100,000 AND [contourInterval.intermediate] = 20))
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

Index: 1 Ref #: 202801 Name: Slope Guide Title Type: Text

Text Content:	"SLOPE GUIDE"
Color:	Black
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)

---

Index: 2    Ref #: 202804    Name: Slope Guide Diagram (10/20 m)    Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM DPS AC, Appendix B.8, for detailed instructions.

## Slope Guide Diagram, 10/20 Meter Contours (Multiple Language)

Style Sheet References:

TM 50: (none)

TM 100: (none)

Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0027	Slopes greater than 5% present	[[dataContent] includes slopes > 5%.)
AC-0041	Primary Contour Interval 10 (20) Meters	[[displayScale.equivalentScale] = 1:50,000 AND [contourInterval.intermediate] = 10) OR [[displayScale.equivalentScale] = 1:100,000 AND [contourInterval.intermediate] = 20))
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

---

Index: 1    Ref #: 202801    Name: Slope Guide Title    Type: Text

Text Content:	"SLOPE GUIDE"
Color:	Black
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)

---

Index: 2    Ref #: 202802    Name: Slope Guide Title (Translated)    Type: Text

Text Content:	"SLOPE GUIDE" (translated)
Color:	Black
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)

---

Index: 3    Ref #: 202804    Name: Slope Guide Diagram (10/20 m)    Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM DPS AC, Appendix B.8, for detailed instructions.

## Slope Guide Diagram, 20/40 Meter Contours (Single Language)

Style Sheet References:

TM 50: (none)

TM 100: (none)

Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0027	Slopes greater than 5% present	[[dataContent] includes slopes > 5%.)
AC-0042	Primary Contour Interval 20 (40) Meters	[[displayScale.equivalentScale] = 1:50,000 AND [contourInterval.intermediate] = 20) OR [[displayScale.equivalentScale] = 1:100,000 AND [contourInterval.intermediate] = 40))
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

---

Index: 1    Ref #: 202801    Name: Slope Guide Title    Type: Text

Text Content:	"SLOPE GUIDE"
Color:	Black
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)

---

Index: 2    Ref #: 202805    Name: Slope Guide Diagram (20/40 m)    Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM DPS AC, Appendix B.8, for detailed instructions.

## Slope Guide Diagram, 20/40 Meter Contours (Multiple Language)

Style Sheet References:

Version Notes:

TM 50: (none)

(none)

TM 100: (none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0027	Slopes greater than 5% present	[[dataContent] includes slopes > 5%.)
AC-0042	Primary Contour Interval 20 (40) Meters	[[displayScale.equivalentScale] = 1:50,000 AND [contourInterval.intermediate] = 20) OR [[displayScale.equivalentScale] = 1:100,000 AND [contourInterval.intermediate] = 40))
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

---

Index: 1    Ref #: 202801    Name: Slope Guide Title    Type: Text

Text Content:	"SLOPE GUIDE"
Color:	Black
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)

---

Index: 2    Ref #: 202802    Name: Slope Guide Title (Translated)    Type: Text

Text Content:	"SLOPE GUIDE" (translated)
Color:	Black
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)

---

Index: 3    Ref #: 202805    Name: Slope Guide Diagram (20/40 m)    Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM DPS AC, Appendix B.8, for detailed instructions.

## Slope Guide Diagram, 40/80 Meter Contours (Single Language)

Style Sheet References:

Version Notes:

TM 50: (none)

(none)

TM 100: (none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0027	Slopes greater than 5% present	[[dataContent] includes slopes > 5%.)
AC-0043	Primary Contour Interval 40 (80) Meters	[[displayScale.equivalentScale] = 1:50,000 AND [contourInterval.intermediate] = 40) OR [[displayScale.equivalentScale] = 1:100,000 AND [contourInterval.intermediate] = 80))
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

---

Index: 1    Ref #: 202801    Name: Slope Guide Title    Type: Text

Text Content:	"SLOPE GUIDE"
Color:	Black
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)

---

Index: 2    Ref #: 202806    Name: Slope Guide Diagram (40/80 m)    Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM DPS AC, Appendix B.8, for detailed instructions.

## Slope Guide Diagram, 40/80 Meter Contours (Multiple Language)

Style Sheet References:

TM 50: (none)

TM 100: (none)

Version Notes:

(none)

### Version Rules

Reference #:	Description:	Criteria:
AC-0027	Slopes greater than 5% present	[[dataContent] includes slopes > 5%.]
AC-0043	Primary Contour Interval 40 (80) Meters	[[displayScale.equivalentScale] = 1:50,000 AND [contourInterval.intermediate] = 40] OR [[displayScale.equivalentScale] = 1:100,000 AND [contourInterval.intermediate] = 80))
AC-0003	Multiple-language	[displayLanguage.count] > 1

### Components

---

Index: 1    Ref #: 202801    Name: Slope Guide Title    Type: Text

Text Content:	"SLOPE GUIDE"
Color:	Black
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)

---

Index: 2    Ref #: 202802    Name: Slope Guide Title (Translated)    Type: Text

Text Content:	"SLOPE GUIDE" (translated)
Color:	Black
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)

---

Index: 3    Ref #: 202806    Name: Slope Guide Diagram (40/80 m)    Type: Graphic

[Symbol Graphic Reference](#)

Note: Refer to TM DPS AC, Appendix B.8, for detailed instructions.

## Slope Guide Flat Area Note (Single Language)

Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

Version Notes:

When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the type specification and color of other notes there.

### Version Rules

Reference #:	Description:	Criteria:
AC-0028	No slopes greater than 5% present	[[dataContent] does not include slopes > 5%.]
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

---

Index: 1    Ref #: 200022    Name: Slope Guide Flat Area Note    Type: Text

Text Content:	"SLOPES ON THIS MAP ARE LESS THAN 5%."
Color:	Black
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)

## Slope Guide Flat Area Note (Multiple Language)

### Style Sheet References:

TM 50: (none)  
TM 100: (none)

### Version Notes:

When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the type specification and color of other notes there.

## Version Rules

Reference #:	Description:	Criteria:
AC-0028	No slopes greater than 5% present	[[dataContent] does not include slopes > 5%.)
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index:	Ref #:	Name:	Type:
1	200022	Slope Guide Flat Area Note	Text
Text Content:		"SLOPES ON THIS MAP ARE LESS THAN 5%."	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Medium, Upper Case)	
2	202006	Slope Guide Flat Area Note (Translated)	Text
Text Content:		"SLOPES ON THIS MAP ARE LESS THAN 5%." (translated)	
Color:		Black	
Type Specification:		Zurich Condensed (6 point, Light, Upper Case)	

## Symbol Legend

TM DPS AC Section: 3.5

## Metadata Elements

Name:	Substitution Value:	Description:
Portrayal Catalogue	portrayalCatalogue	The TM portrayal catalogue.
Data Content - Maximum Elevation	dataContent.maxElevation	The maximum elevation value over the geographic extent of the TM map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

## Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Symbol Legend (Single Language)

### Style Sheet References:

TM 50: Arrangement A  
TM 100: Arrangement A

### Version Notes:

Refer to TM DPS AC section B.5 for details on the standard symbol legend.

## Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

## Symbol Legend (Multiple Language)

### Style Sheet References:

### Version Notes:

TM 50: Arrangement B

Refer to TM DPS AC section B.5 for details on the standard symbol legend.

TM 100: Arrangement B

## Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Unit of Elevation Note

TM DPS AC Section: 3.3.3

## Metadata Elements

Name:	Substitution Value:	Description:
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

## Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

## Unit of Elevation Note (Single Language)

## Style Sheet References:

TM 50: Arrangement A

TM 100: Arrangement A

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

## Components

Index: 1	Ref #: 200020	Name: Unit of Elevation Note	Type: Text
Text Content:	"ELEVATIONS IN METERS"		
Color:	Dk-Brown1815		
Type Specification:	Zurich Condensed (10 point, Medium, Upper Case)		

## Unit of Elevation Note (Multiple Language)

## Style Sheet References:

TM 50: Arrangement B

TM 100: Arrangement B

## Version Notes:

(none)

## Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

## Components

Index: 1	Ref #: 200020	Name: Unit of Elevation Note	Type: Text
Text Content:	"ELEVATIONS IN METERS"		
Color:	Dk-Brown1815		
Type Specification:	Zurich Condensed (10 point, Medium, Upper Case)		

Index: 2	Ref #: 202005	Name: Unit of Elevation Note (Translated)	Type: Text
----------	---------------	---	------------

Text Content: "ELEVATIONS IN METERS" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (10 point, Light, Upper Case)

## Users Note

TM DPS AC Section: 3.1.7.2

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
Users Note Text	usersNoteText	The text of the Users Note as required by supplementary instructions.

### Annotation Rules

<b>Reference #:</b>	<b>Description:</b>	<b>Criteria:</b>
AC-0001	Always Include	TRUE

### Style Sheet References:

TM 50: Arrangement A  
 TM 100: Arrangement A

### Version Notes:

(none)

### Components

<b>Index:</b> 1	<b>Ref #:</b> 200009	<b>Name:</b> Users Note	<b>Type:</b> Text
<b>Text Content:</b>	"[usersNoteText]"		
<b>Color:</b>	Black		
<b>Type Specification:</b>	Zurich Condensed (6 point, Light, Upper Case)		

## Annex B - Style Sheets

This annex presents the graphic illustration and design of annotation elements and their locations on the map. Included in Annex B are sub-sections that provide more detailed versioning and information related to certain annotation elements.

The following sections are included in Annex B:

- B.1 – 1:50,000 Scale Topographic Maps Style Sheet Arrangement “A” (attached)
- B.2 – 1:50,000 Scale Topographic Maps Style Sheet, Arrangement “B” (attached)
- B.3 – 1:100,000 Scale Topographic Maps Style Sheet, Arrangement “A” (attached)
- B.4 – 1:100,000 Scale Topographic Maps Style Sheet, Arrangement “B” (attached)
- B.5 – Master Legend
- B.6 – Grid Declination Diagrams
- B.7 – Margin Symbol Detailed Drawing Instructions
- B.8 – Slope Guide
- B.9 – Grid Zone Junctions

# B.5 - Master Legend

## POPULATED PLACES

- Built-up areas: Dense
- Sparse or moderate
- Not intact
- Shantytown; Settlement
- Buildings

## ROADS

- All weather, hard surface:
  - Divided highway: Wide median
  - Narrow median
  - Not intact with median
  - Four or more lanes wide
  - Two or three lanes wide
  - One lane wide
- All weather, loose surface:
  - Four or more lanes wide
  - Two or three lanes wide
  - One lane wide
- Fair-weather road/Street
- Not intact without median
- Cart track; Trail

## RAILWAYS

- Standard/Broad gauge
  - Single Track
  - Multi-track
- Narrow < 1.44 (4' 8.5")
- Electrified (standard gauge)
- Station; Turntable

## BOUNDARIES

- International; Boundary mon.
- First-order administrative
- Military installation
- Conservation area

## CULTURAL FEATURES

- Building: Important
  - Christian; Islam; Judaism
  - Minaret; Pagoda; Stupa; Temple
  - School; Diplomatic; Motor vehicle
  - Hospital; Health station; Not intact
  - Fortified building; Castle; Fountain
  - Hut; Holding pen; Monument; Ruins
  - Greenhouse: Point; Surface

## LEGEND

25m for 1:50,000;  
50m for 1:100,000

- Cemetery: Christian; Islam; Judaism
- Unknown; Buddhism; Shinto
- Tower: Communication/Aerial; Non-communication; Water
- Dish aerial; Cooling tower; Flare pipe
- Lighthouse; Water intake tower; Crane
- Windmill; Wind turbine; Smokestack
- Mooring mast; Ski jump; Water mill
- Checkpoint; Gate; Power substation
- Storage tank; Non-water well; Rig
- Bunker: Surface; Underground
- Extraction mine: Intact; Not intact
- Dam: Hard; Loose
- Lock; Sluice gate
- Tunnel: Road; Railway
- Bridge:
  - Pedestrian; Road; Railway
- Culvert: Road; Railway
- Wall; Fence
- Pipeline:
  - Surface: Not water; Water
  - Underground
  - Elevated
- Sports ground; Vehicle lot

## VERTICAL OBSTRUCTIONS (VO) (>=46m)

- Elevation of obstruction top above sea level
- Height of obstruction top above ground level
- VO Pylon
- VO Cable/Cableway

## CABLES (<46m)

- Power transmission line
- Communication/power distribution line

## AERONAUTICAL FEATURES

- Aerodrome beacon
- Apron
- Taxiway
- Intact runway; Stopway
- Not intact runway
- Helipad: Non-hospital; Hospital

## HYDROGRAPHIC FEATURES

- River: Less than 25m wide
- 25m wide or more
- Disappearing; Dissipating
- Ditch
- Natural pool
- Water well
- Inland waterbody:
  - Natural shoreline
  - Man-made shoreline
  - Underground aqueduct with qanats
  - Cistern; Salt evaporator
- Rice; Land subject to inundation; Bog/Marsh
- Swamp; Cypress
- Nipa/Palm; Mangrove

## COASTAL HYDROGRAPHIC FEATURES

- Anchorage; Rock (exposed); Wreck
- Light vessel; Offshore structure (<46m)
- Aquatic vegetation
- Foreshore; Reef

## VEGETATION

- Forest: Deciduous; Evergreen; Mixed
- Unknown; Scattered trees; Brush/Thicket
- Vineyard; Cane
- Tropical grass
- Orchard; Cropland; Other
- Permanent irrigation
- Row of trees; Hedgerow
- Tree: Deciduous; Evergreen; Other

## HYPSOGRAPHIC FEATURES

- Spot elevation:
  - Highest; Normal; Water
- Survey point:
  - Geodetic; Benchmark
  - Cave mouth; Mountain pass
- Rock formation; Steep terrain face
- Cut; Fill; Levee/Dyke
- Distorted surface; Sand; Gravel/Moraine

250m for 1:50,000;  
500m for 1:100,000

200m for 1:50,000;  
400m for 1:100,000

3.5.1.4

3.5.1.4

## Arid Region Symbols

- Sand dunes:
  - Crescent; Dome; Linear
  - Ripple; Star; Transverse
- Oasis; Sabkha

## Frozen Region Symbols

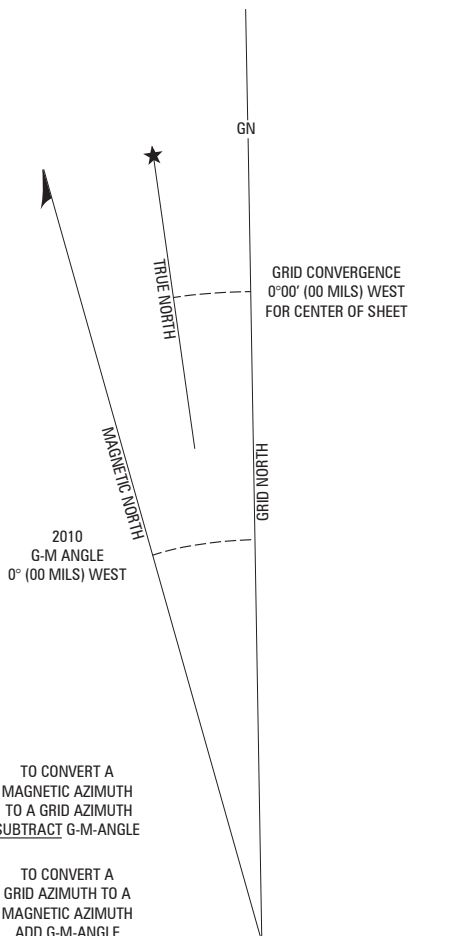
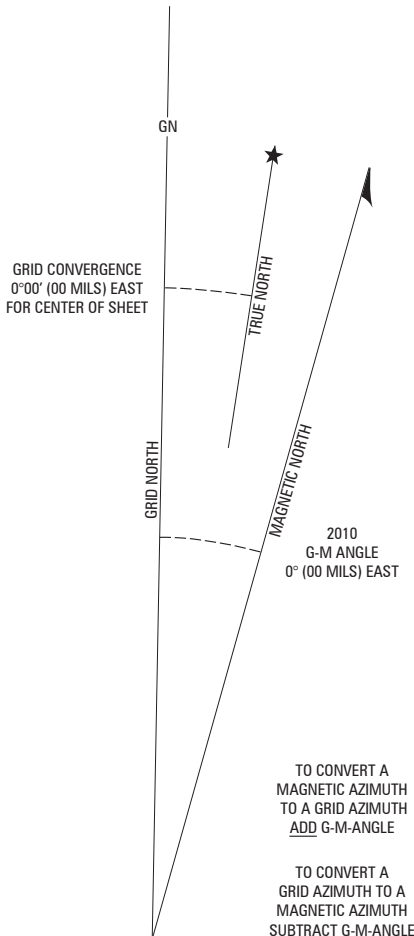
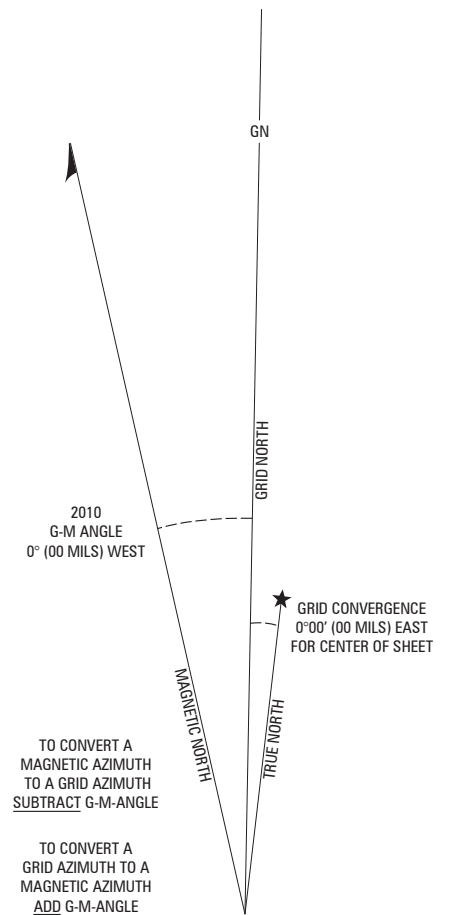
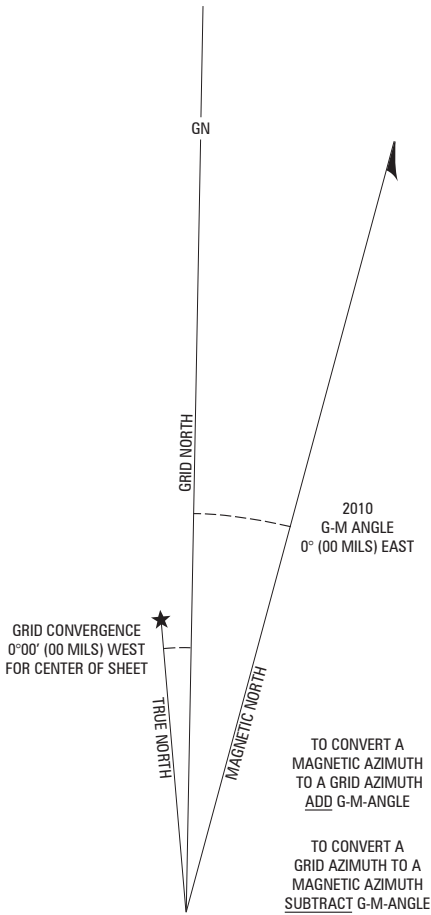
- Glacier; Snow/Ice field
- Ice peak: Non-frozen; Frozen
- Ice cliff
- Spot elevation (snow/ice):
  - Highest; Normal

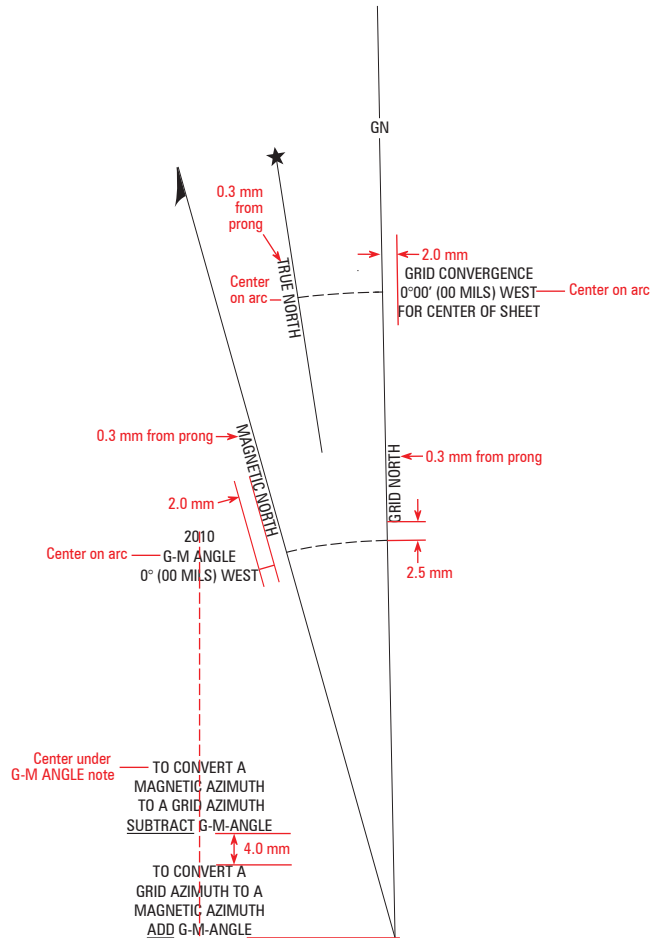
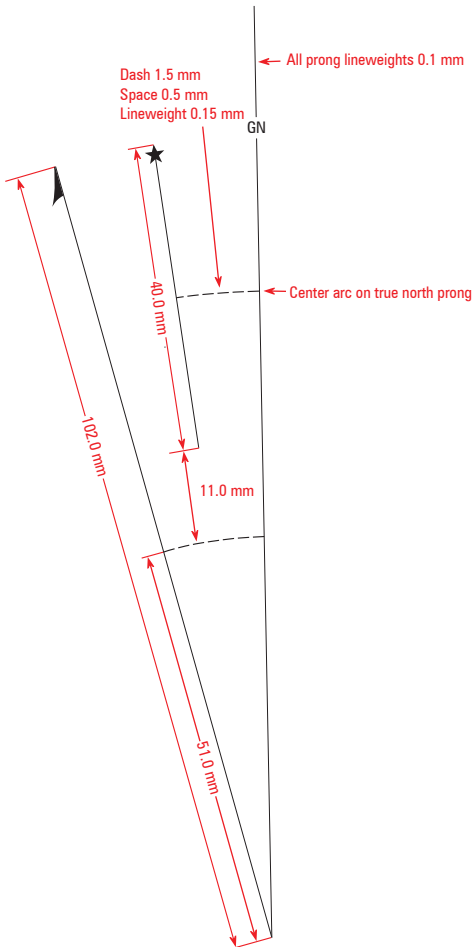
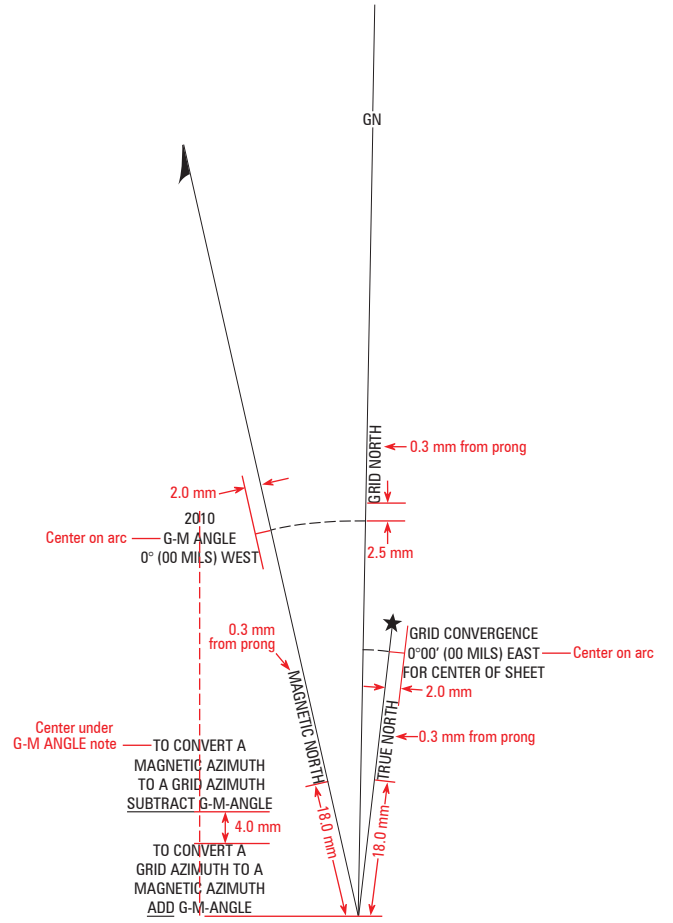
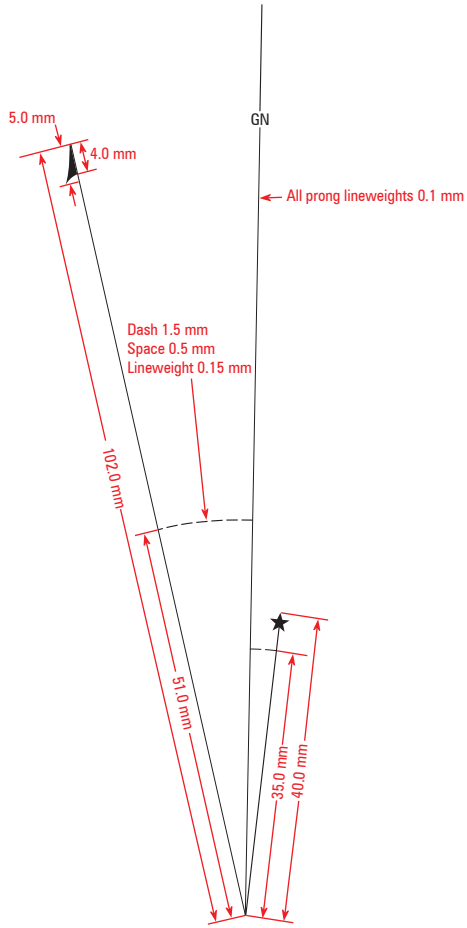
# B.6 - Grid Declination Diagrams

If the angles between Grid North and Magnetic North are less than 3 degrees, they shall be plotted as 3 degrees. For angles greater than 3 degrees, they shall be plotted as called for in the declination data furnished.

The angle between True North and Grid North is plotted as close as possible to its actual value, without having the star touch the GN prong.

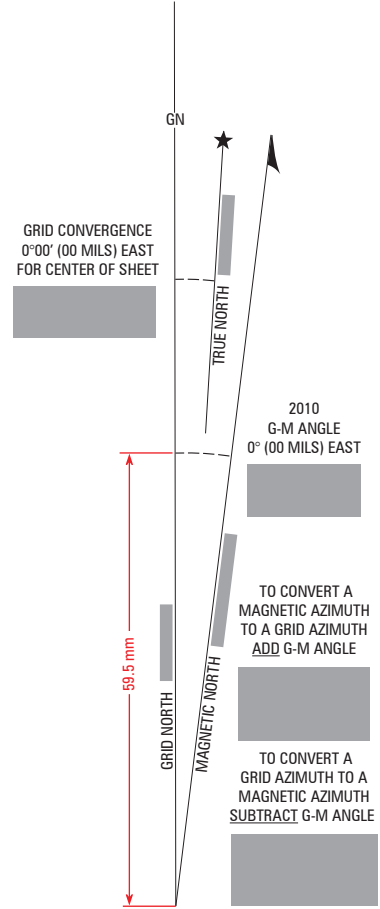
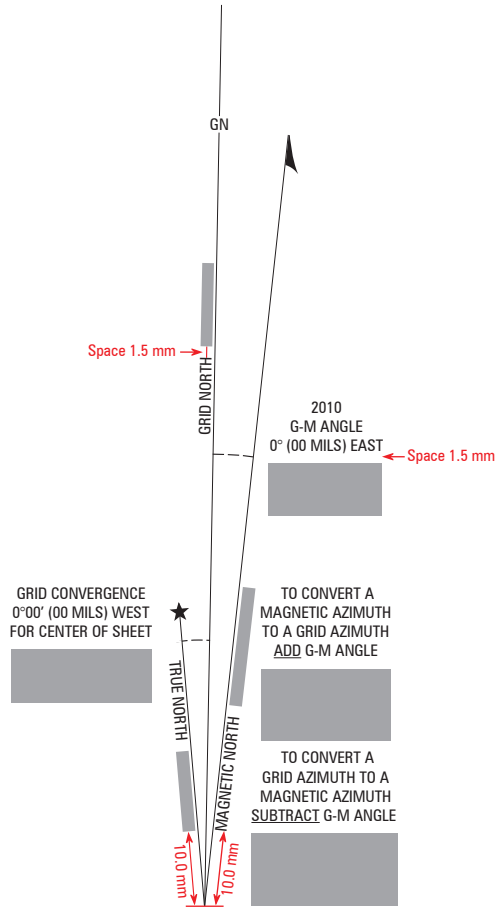
The Grid North prong is an extension of an easting (vertical) grid line; the extension is a continuous line which stops at the central point near the bottom work limits of the sheet. The prong is blocked out a distance of 0.5mm from the letters "GN" and from the grid value near the neatline.



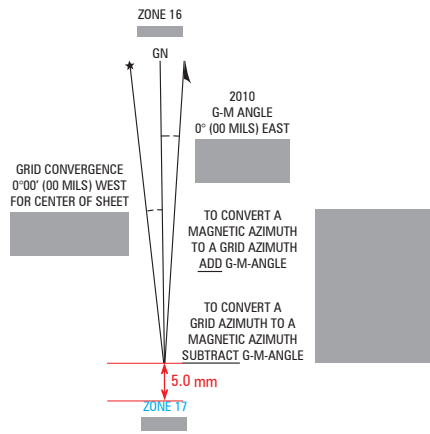




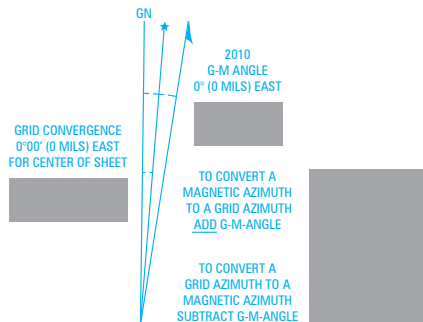
When requirements exist for multilingual treatment of marginal data, items accompanied by a dark gray tint are translated.



**MAJOR**  
Print same color as grid values

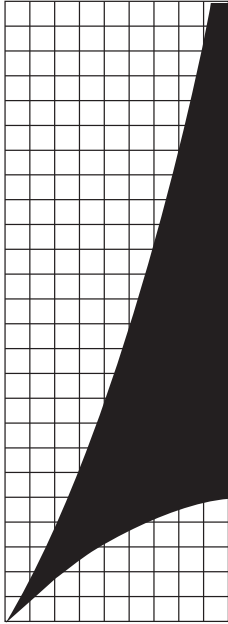


**OVERLAPPING**  
Print same color as grid values



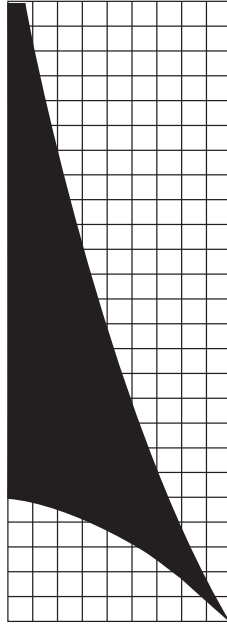
# B.7 - Margin Symbol Detailed Drawing Instructions

**Large Left Arrow - Black**



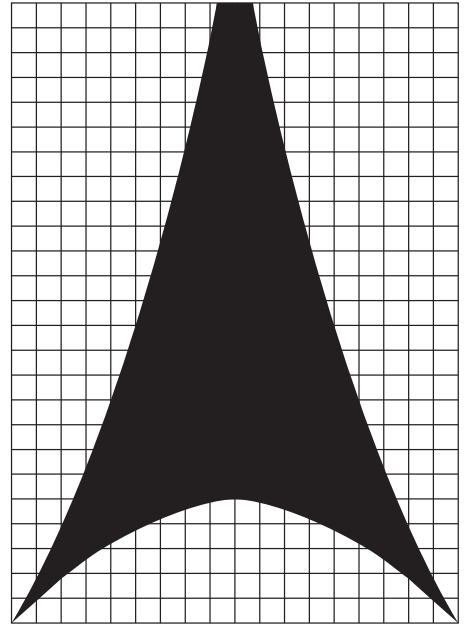
Symbol should closely approximate the shape as indicated above.  
Grid squares: 0.2 mm x 0.2 mm  
Overall height: 5.0 mm  
Overall width: 1.8 mm

**Large Right Arrow - Black**



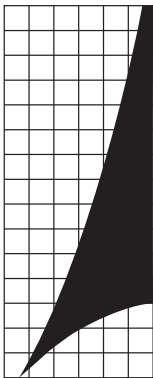
Symbol should closely approximate the shape as indicated above.  
Grid squares: 0.2 mm x 0.2 mm  
Overall height: 5.0 mm  
Overall width: 1.8 mm

**Large Full Arrow - Black**



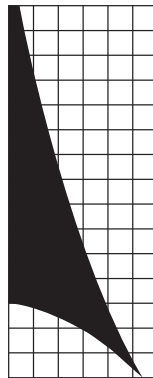
Symbol should closely approximate the shape as indicated above.  
Grid squares: 0.2 mm x 0.2 mm  
Overall height: 5.0 mm  
Overall width: 3.6 mm

**Small Left Arrow - Black**



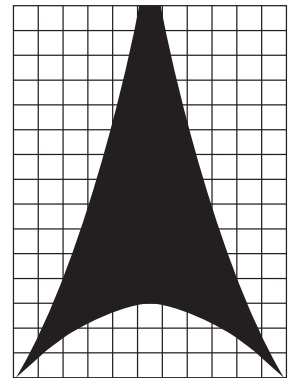
Symbol should closely approximate the shape as indicated above.  
Grid squares: 0.2 mm x 0.2 mm  
Overall height: 3.0 mm  
Overall width: 1.1 mm

**Small Right Arrow - Black**



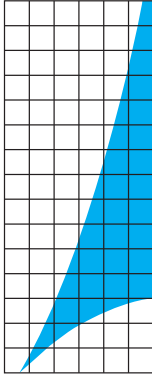
Symbol should closely approximate the shape as indicated above.  
Grid squares: 0.2 mm x 0.2 mm  
Overall height: 3.0 mm  
Overall width: 1.1 mm

**Small Full Arrow - Black**



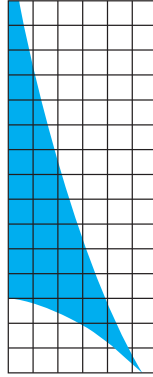
Symbol should closely approximate the shape as indicated above.  
Grid squares: 0.2 mm x 0.2 mm  
Overall height: 3.0 mm  
Overall width: 2.2 mm

**Small Left Arrow - Cyan**



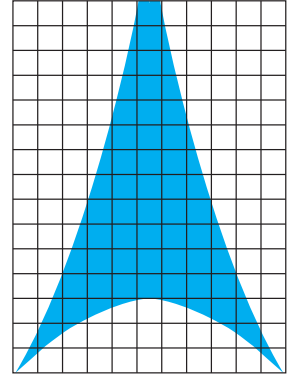
Symbol should closely approximate the shape as indicated above.  
 Grid squares: 0.2 mm x 0.2 mm  
 Overall height: 3.0 mm  
 Overall width: 1.1 mm

**Small Right Arrow - Cyan**



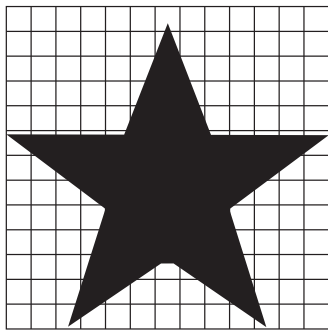
Symbol should closely approximate the shape as indicated above.  
 Grid squares: 0.2 mm x 0.2 mm  
 Overall height: 3.0 mm  
 Overall width: 1.1 mm

**Small Full Arrow - Cyan**



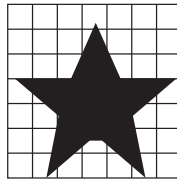
Symbol should closely approximate the shape as indicated above.  
 Grid squares: 0.2 mm x 0.2 mm  
 Overall height: 3.0 mm  
 Overall width: 2.2 mm

**Large Star - Black**



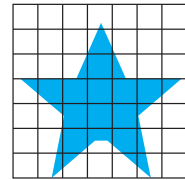
Symbol should closely approximate the shape as indicated above.  
 Grid squares: 0.2 mm x 0.2 mm  
 Overall height: 2.45 mm  
 Overall width: 2.6 mm

**Small Star - Black**



Symbol should closely approximate the shape as indicated above.  
 Grid squares: 0.2 mm x 0.2 mm  
 Overall height: 1.25 mm  
 Overall width: 1.3 mm

**Small Star - Cyan**



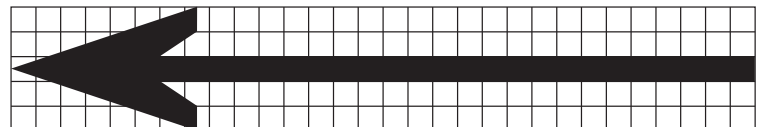
Symbol should closely approximate the shape as indicated above.  
 Grid squares: 0.2 mm x 0.2 mm  
 Overall height: 1.25 mm  
 Overall width: 1.3 mm

**Elevation Guide Spot Elevation**



Lineweight: 0.1 mm Length of lines: 0.8 mm  
 Lines intersect at a 45 degree angles to form an "X"  
 Intersection is at the center of the two line segments

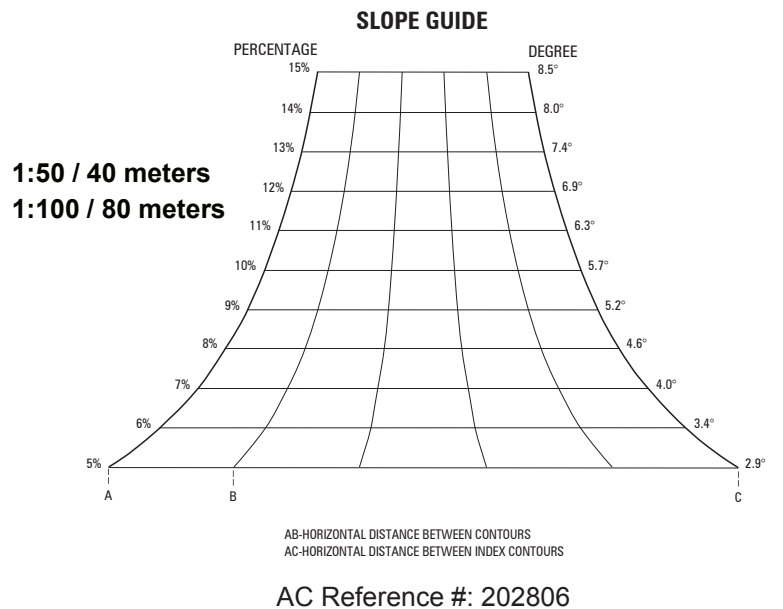
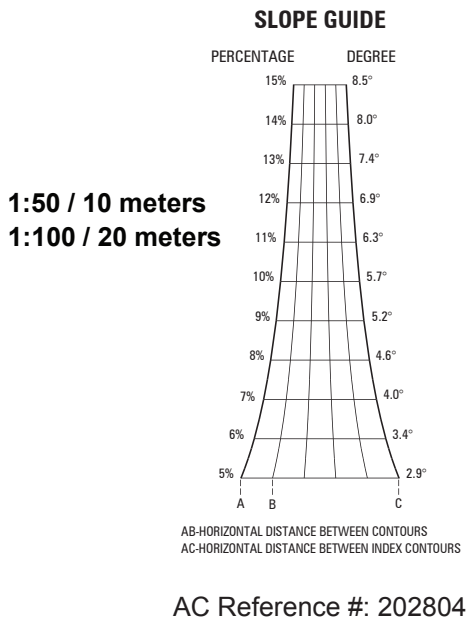
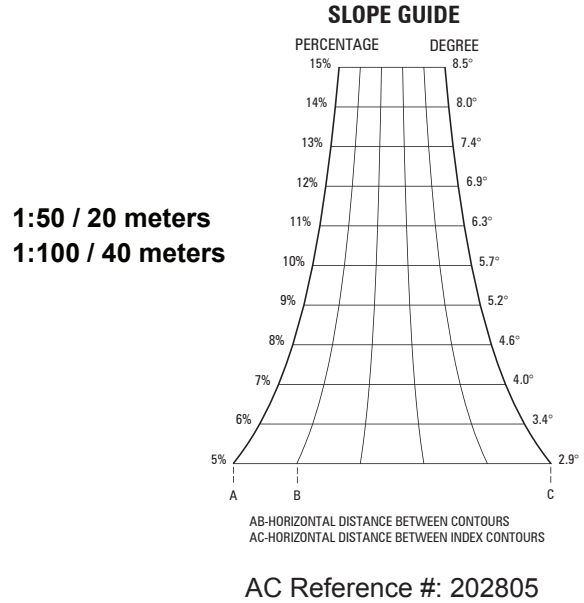
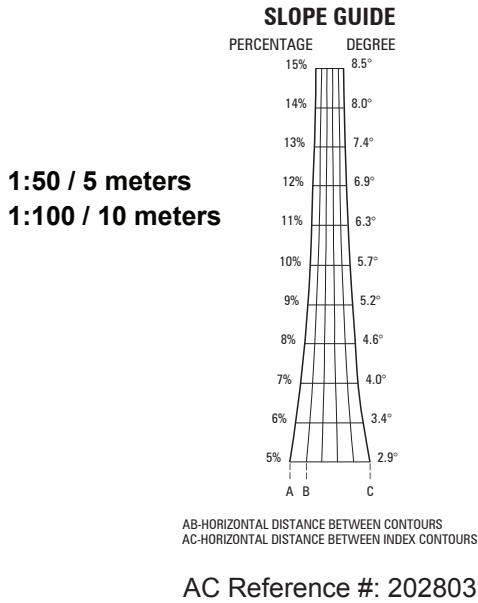
**Road Destination and Diagrams Arrow**



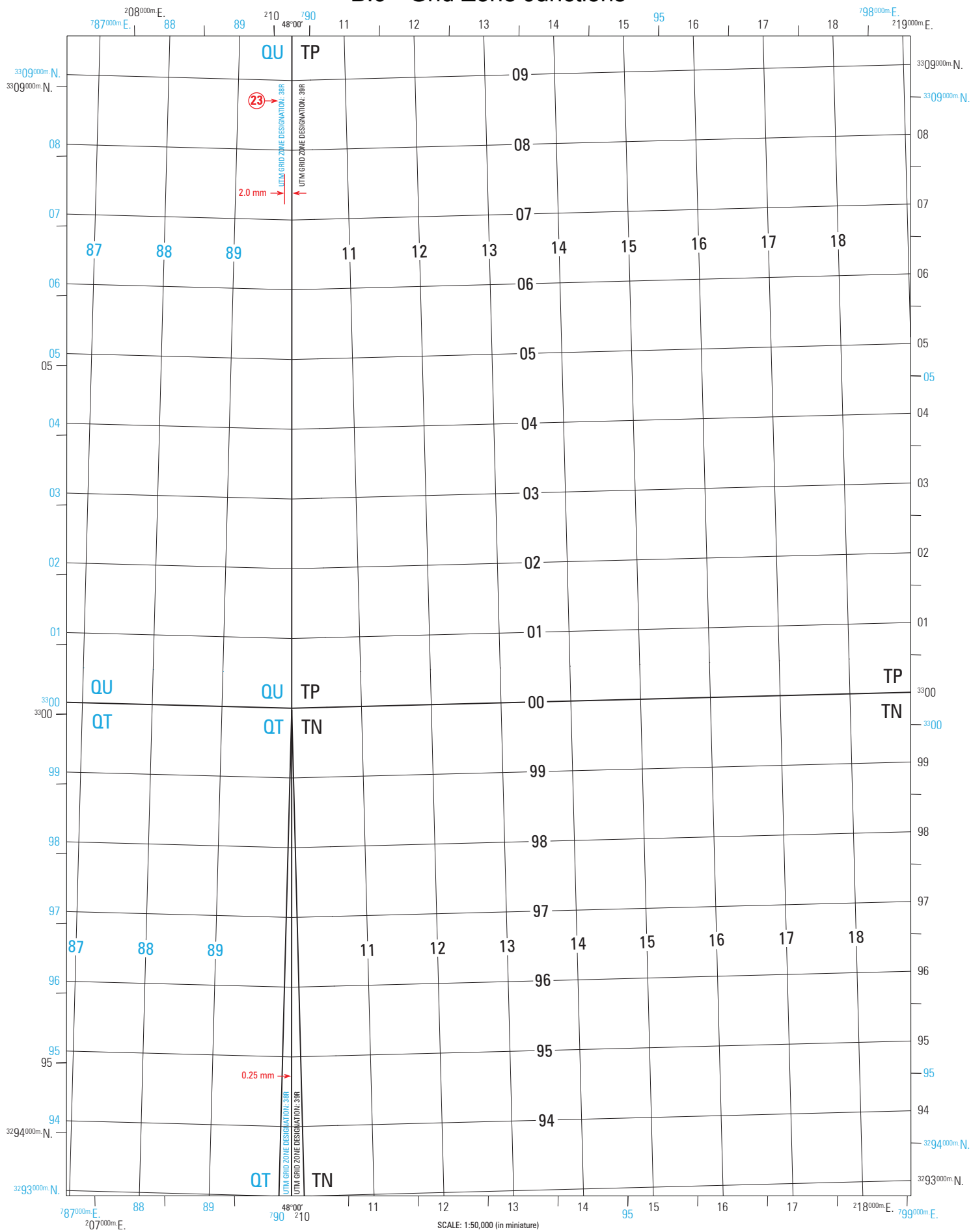
Symbol should closely approximate the shape as indicated above.  
 Grid squares: 0.2 mm x 0.2 mm  
 Arrow staff lineweight: 0.2 mm  
 Overall height: 1.0 mm  
 Overall length: 6.0 mm  
 (Length of diagram arrows may be adjusted as needed)

# B.8 - Slope Guides

Each diagram is based on the scale and contour interval (in meters) of the map.



# B.9 - Grid Zone Junctions



Notes identifying each grid appear in the Geodetic Information and Composite Notes in lower margin of the sheet and are modeled after the following:

GRID ..... 1,000 METER UTM ZONE 39 (BLACK NUMBERED LINES AND TICKS)  
1,000 METER UTM ZONE 38 (BLUE NUMBERED LINES AND TICKS)