



**DGIWG – 252-3**  
**Defence Topographic Map for 1:50,000 Scale (DTM50)**  
**Data Product Specification (DPS) -**  
**Annotation Catalogue (AC)**

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<b>Abstract:</b>	This is the Annotation Catalogue (AC) of the Defence Topographic Map for 1:50,000 Scale (DTM50) Data Product Specification (DPS)
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### Document history

Version	Date	Comments	Authors
1.1	01 March 2023	First version of the DTM50 to be ratified. V1.1 is used, instead of v1.0 in order to indicate the content alignment between MTM v1.1 and this DTM50 v1.1	Chad Wettlaufer (CAN)

## Foreword

The purpose of this document is to describe the content and arrangement of a Defence Topographic Map for 1:50,000 Scale (DTM50). A DTM50 is a hardcopy map characterized by a high level of planimetric detail and quantitative representation of relief using elevation contour lines. The various features shown on the map are represented by standard symbols. These symbols are explained in the margin of the map along with other information about the map and its content. Topographic map content includes symbolization of transportation and cultural features, vertical obstructions, hydrography, hypsography, vegetation, boundaries, geographic place-names, along with a Military Grid Reference System (MGRS) grid.

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

- **DGIWG-252-1\_DTM50\_DPS** - This Defence Topographic Map Data Product Specification (DTM DPS), which defines the requirements for a hardcopy topographic map product at 1:50,000 scale.
- **DGIWG-252-2\_DTM50\_DPS\_PC** - The Defence Topographic Map Data Product Specification Portrayal Catalogue (DTM DPS PC), which defines requirements for the portrayal of feature data on hardcopy topographic maps.
- **DGIWG-252-3\_DTM50\_DPS\_AC** - The Defence Topographic Map Data Product Specification Annotation Catalogue (DTM DPS AC), which defines requirements for the portrayal of non-feature (marginalia) data on hardcopy 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 Defence Geospatial Information Working Group [secretariat@dgiwg.org](mailto:secretariat@dgiwg.org)

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# 1 Overview

This Defence Topographic Map for 1:50,000 Scale Annotation Catalogue (DTM50 AC) defines requirements for the portrayal of non-feature data (“metadata”) on a 1:50,000 scale Defence Topographic Map.

## 1.1 Annotations within the Cartographic Process

As described in the Defence Topographic Map for 1:50,000 Scale Data Product Specification (DTM50 DPS), section 12.4, 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 Catalogue - here the Defence Topographic Map for 1:50,000 Scale Portrayal Catalogue (DTM50 PC).

The concept of an Annotation, extends the geographic portrayal process defined in ISO 19117. While *features* are associated with *symbols* in a Portrayal Catalogue, *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).

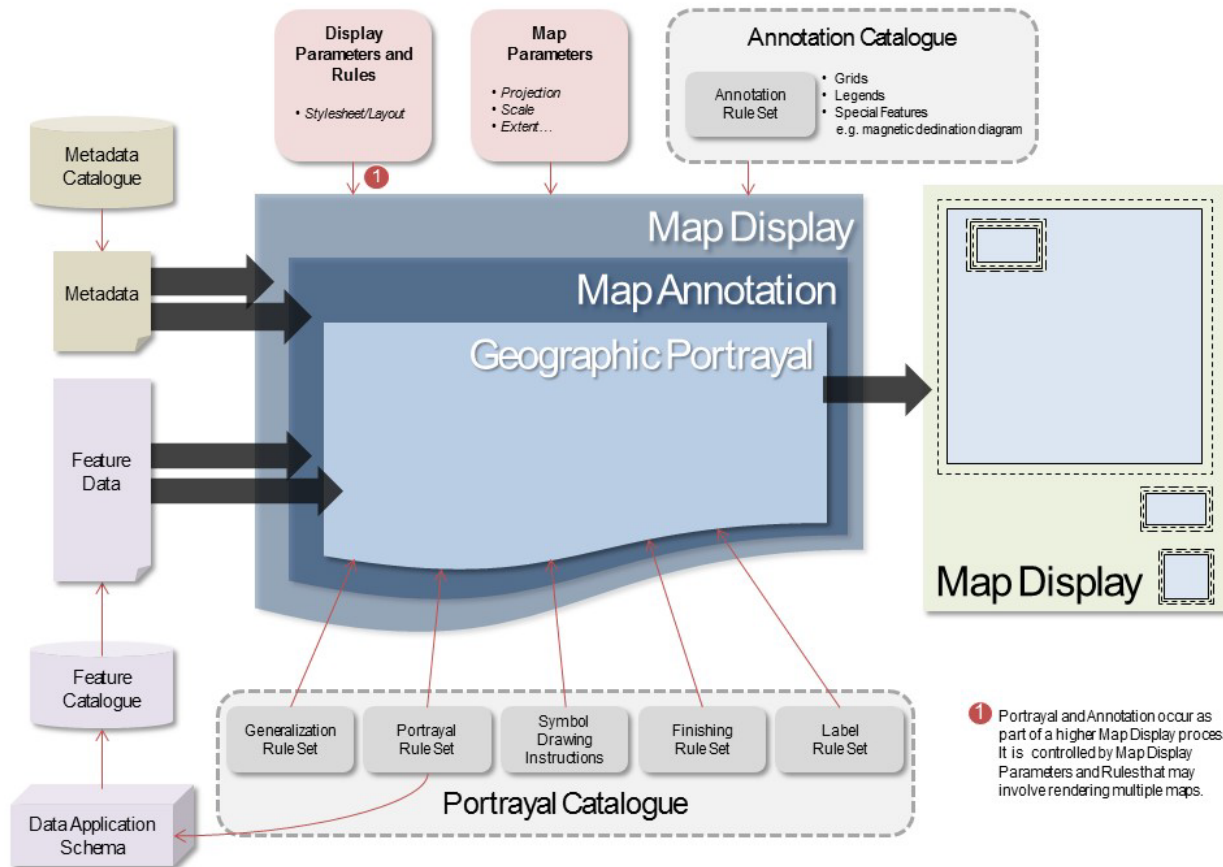


Figure 1. The cartographic process for a complete map display.

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 two 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

Both 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 DTM50 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 lower 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 colour 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, bilateral cooperative mapping arrangements or national mapping requirements, 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 A and Annex B - Style Sheets, Arrangement B for guidance on items in the margin requiring translation. Additional margin items requiring translation may be specified in supplemental instructions for the project.

Except for glossaries, the English language shall be listed first 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 Defence Topographic Maps for 1:50,000 Scale. 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 DTM50 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 DTM50 DPS, Section 3.14.1.1), followed by the product name “DEFENCE TOPOGRAPHIC MAP” and the scale of the map series (1:50,000), 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 DTM50 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 name(s) of remaining countries will be shown.
- 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 NATO Stock Number (NSN) and Edition Number, as well as the Reference Number (RN) (see Figure 2).



Figure 2. Sample NATO Stock Number (NSN), Reference Number (RN), 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 NATO Stock Number (NSN)**

The NATO Stock Number (NSN) consists of a 13 digit number and is used to uniquely identify the map in the NATO distribution system. For details on the construction of the NSN, see the DTM50 DPS, Section 3.14.4.

The letters "NSN" are shown in front of the human-readable NATO Stock Number to distinguish it from the Reference Number (RN).

### **3.1.5.2 Reference Number (RN)**

The Reference Number (RN) consists of an alphanumeric designation not to exceed 15 characters. For details on the construction of the RN, see the DTM50 DPS, Section 3.14.5.

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

If an additional identification number is required by the producing nation/agency, it shall be placed to the right of the RN below the edition number.

### **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 DTM50 DPS, Section 3.14.3.

## **3.1.6 Producer Seal**

The official seal of the producing agency shall be shown on the map. 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 Publication and data source credit note**

Each map shall contain a publication and credit note, which identifies the map producing agency, the production date of the map sheet, and the data producing agency or agencies. The note shall be placed adjacent to the producer seal and is patterned after the following:

Prepared and published in [MM-YYYY] by [Producing Agency]  
using data produced by [Data Producing Agency]

#### **3.1.7.1.2 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 national guidance and/or supplementary project instructions for the text of this note.

### **3.1.7.3 File preparation note**

A note identifying the agency which prepared the production file used to make the map, along with the respective month and year, shall be shown. The note shall be placed at the bottom of the composite geodetic information notes. The file preparation note shall be patterned after the following:

FILE PREPARED BY ..... [PRODUCING AGENCY CODE] [MM-YYYY]

### **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. For example, copyright notes may read:

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

©2009. Her Majesty the Queen in Right of Canada.



## 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 DTM50 DPS section 3.11.1) shall be shown in two locations on the map display:

- In the upper right margin, centred 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, 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 colour

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, grid(s), projection, and datums used on a map (as specified in the DTM50 DPS section 5.1) shall be included in a geodetic information composited note in the margin. Example:

ELLIPSOID.....WORLD GEODETIC SYSTEM 1984  
 GRID.....1,000 METER UTM ZONE 45  
 PROJECTION .....TRANSVERSE MERCATOR  
 VERTICAL DATUM.....MEAN SEA LEVEL  
 HORIZONTAL DATUM..... WORLD GEODETIC SYSTEM 1984

**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 Slope Guide or declination diagram(s). This note may be repositioned to the top margin if space is limited.

**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 (see Figure 3) showing the grid zone designation(s) and 100,000m square identifiers specific to the map, as well how to read and report a Universal Transverse Mercator (UTM) grid reference, shall be portrayed in the margin.

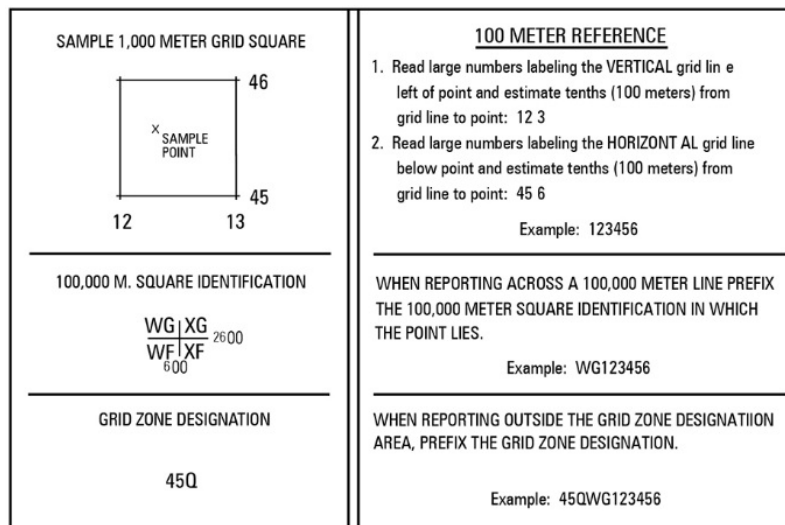


Figure 3. Grid reference box

**3.3.1.5 Graticule and UTM grid values/information**

Graticule (projection) lines, ticks and values; UTM grid lines, ticks (when applicable) and values; 100,000m square ID's (when applicable); and grid zone designations (when applicable) shall be portrayed according to Annex B - Style Sheets.

All grid and graticule values along the neatline shall be positioned so that they are centred to the line or tick they are referencing. In cases of overprints, the graticule values take precedence and shall not be moved off of centre. Grid value labels may be moved laterally (along the left and right sheet margin) or vertically (along the top and bottom sheet margin) in order to avoid overprinting graticule values.

#### 3.3.1.5.1 Graticule information

All graticule neatlines and one minute graticule ticks shall print in black. The graticule ticks shall be distinguishable from any UTM grid ticks by the fact that they cross the neatline (small part of the tick within the sheet neatline and the remainder extending outside the neatline).

The four corners of the sheet neatline shall be labelled with their respective latitude/longitude geographic values. The graticule ticks shall be labelled every 5 minutes on a 1:50,000 sheet and every 10 minutes on a 1:100,000 sheet. All geographic values shall print black.

#### 3.3.1.5.2 UTM grid information

All UTM grid lines and ticks (when applicable) shall print black, regardless of UTM grid zone. For sheets with a single UTM grid, such as that shown on Annex B.1 style sheet, the UTM grid values shall also print black.

For sheets near or adjacent to a UTM grid zone, UTM grid ticks of the adjacent (or “overlapping”) UTM grid zone shall be shown extending outside the neatline. While the ticks of the adjacent UTM grid zone print black, the UTM grid values of the adjacent grid zone shall print cyan. An example of this is shown in Annex B.2 style sheet where the sheet is in UTM grid zone 45 but the sheet is adjacent to UTM grid zone 46. The 1,000 meter grid of the adjacent UTM grid zone shall be shown as ticks along the neatlines and every 5,000 meter tick shall be labelled and print cyan.

#### 3.3.1.5.3 Grid zone junctions

See Annex B.9 for specific portrayal and labelling requirements of when a grid zone junction is contained within the map extent. Note: for simplicity, the graticule (geographic) values and ticks are not shown on the sample in Annex B.9, except for the 40 degree line forming the boundary between the two UTM grid zones. All other graticule information shall be portrayed per 3.3.1.5.1 above.

When a UTM grid zone junction falls within a sheet, the grid lines and values of the predominant zone (that zone covering the majority of the sheet) shall print black. In the example in Annex B.9, this is UTM zone 39. For the part of the sheet which falls in the other grid zone (in Annex B.9 this is UTM zone 38), the grid lines print black but the grid values shall print cyan. Since each part of the sheet is adjacent to the grid zone junction, the grid ticks for the adjacent zone shall be shown and their values printed in the respective colour.

The grid ladder values shown in the interior of the sheet shall print the same colour as their respective exterior UTM grid values. In the example in Annex B.9, the grid values (exterior and interior) of UTM zone 39 print black and those for UTM zone 38 print cyan.

The associated 100,000 meter square identification letters, as well as the “UTM GRID ZONE DESIGNATION” label, shall print the same colour as the values for the respective UTM grid zone.

### **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 labelled 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 note shall be displayed in the lower margin, centred below the map interior and above the standard bar scales, as in Figure 4.

**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 kilometres, 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, centred beneath the scale note, as in Figure 4.

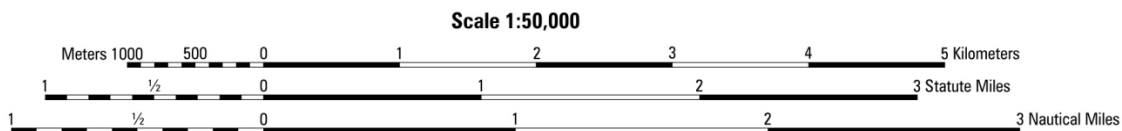


Figure 4. Scale note and representative bar scales.

**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:

"TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 10,000 METERS (10 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS IN BOTH THE HORIZONTAL AND VERTICAL DIMENSIONS."

**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, centred 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, centred 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, for example, 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, for example, 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 is shown in Figure 5. All possible variations of Slope Guides are shown in Annex B – Style Sheets, section B.8.

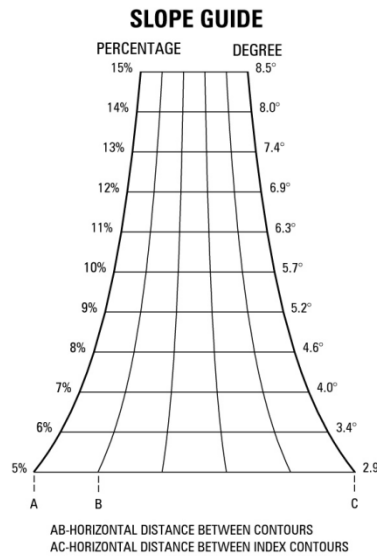


Figure 5. Sample Slope Guide.

### 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 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.



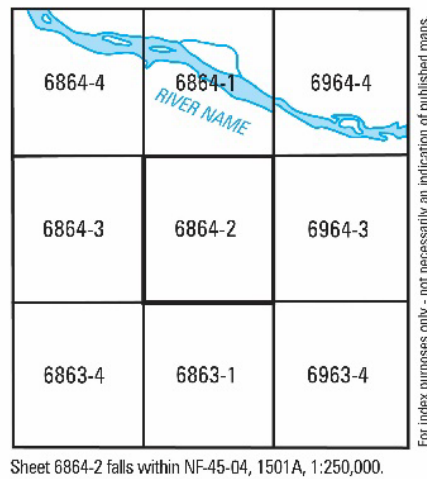


Figure 6. Sample nine sheet diagram (including notes).

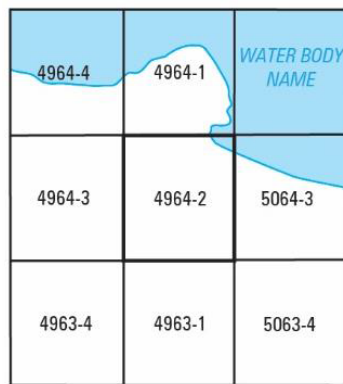


Figure 7. Sample nine sheet diagram with adjoining open water.

### 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 centred 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 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.

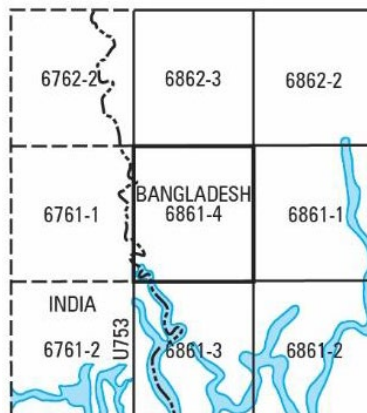


Figure 8. Adjoining series diagram.

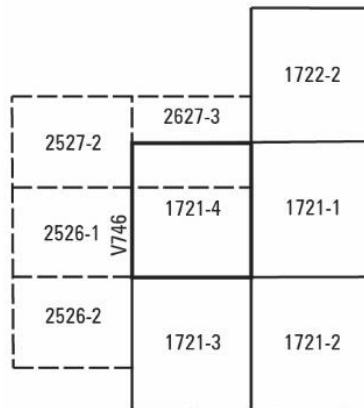


Figure 9. Adjoining or overlapping series diagram.

### 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).

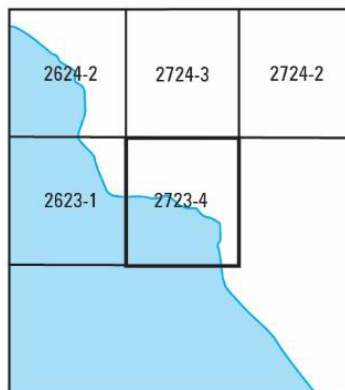


Figure 10. Diagram with no existing series for adjoining area.

### 3.3.6.1.4 Displaced map sheet

In certain instances, a sheet may be displaced from its normal position within a series to include an island or group of islands.

#### 3.3.6.1.4.1 Displaced map in standard sheet diagram

If more than half of the sheet occurs within the area of the standard nine-sheet diagram (Figure 11), the entire sheet shall be represented.

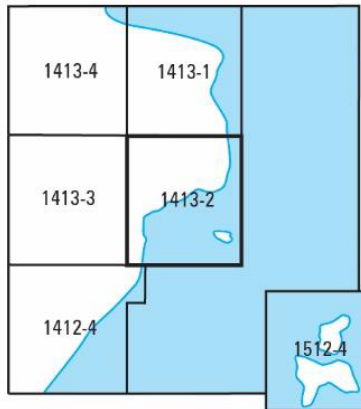


Figure 11. Displaced sheet within diagram area.

#### 3.3.6.1.4.2 Displaced map in irregular sheet diagram

If less than half of the displaced sheet occurs within the area of the standard nine-sheet diagram, the sheet shall not be portrayed or identified. However, the outline of the diagram shall still account for the omitted sheet by representing its partial limits that fall within the diagram proper (Figure 12).



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.

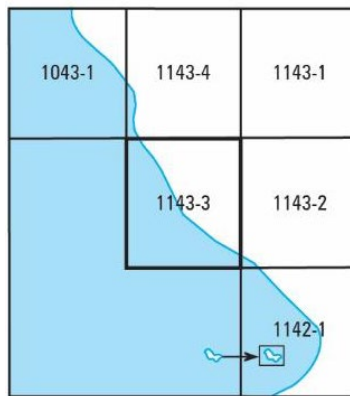


Figure 13. Inset area moved to sheet within diagram.

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.

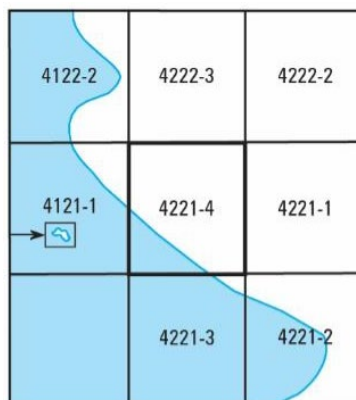


Figure 14. Inset area outside diagram moved to sheet within diagram.

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.

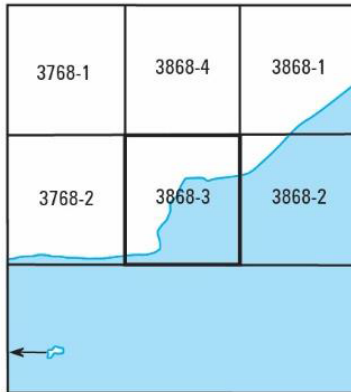


Figure 15. Inset area moved to sheet outside diagram.

### 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.

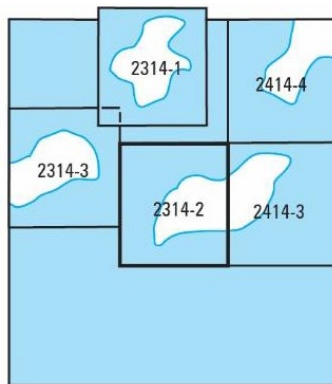


Figure 16. Diagram with overlapping sheets.

### 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 consideration 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).

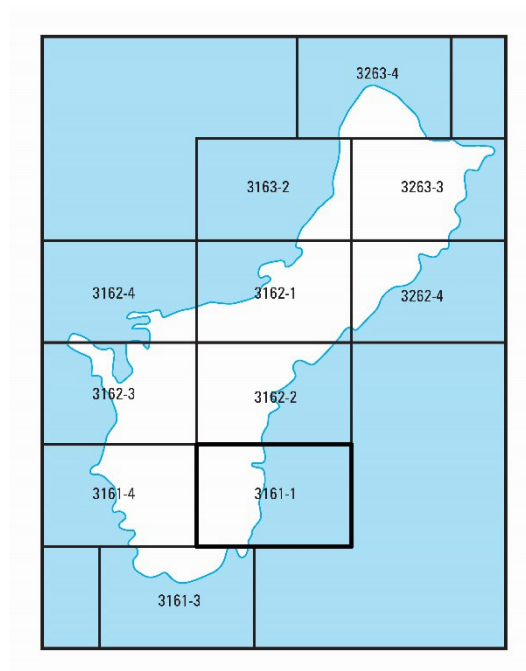


Figure 17. Exceptions to nine-sheet diagram.

### 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.

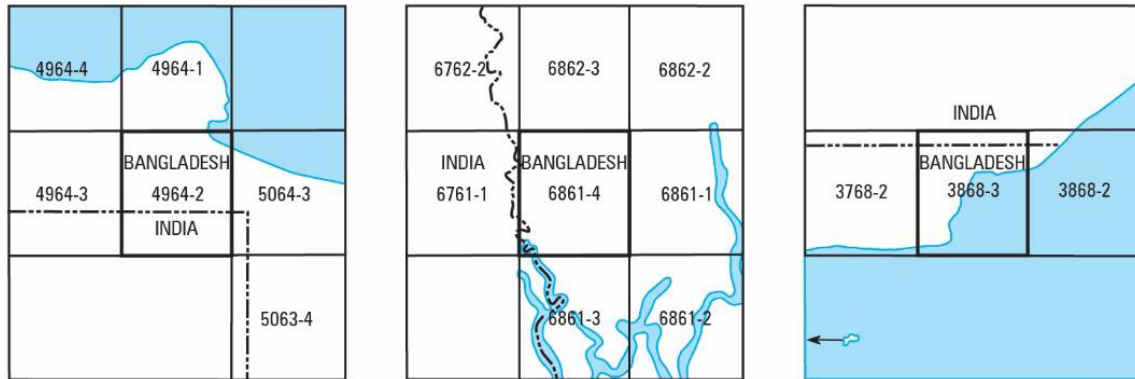


Figure 18. Expurgated areas and sheets in diagram.

3.3.6.1.9 JOG-A note

A note shall be placed under the Adjoining Sheets diagram identifying the 1:250,000 scale Joint Operations Graphic-Air (JOG-A) series 1501A sheet(s) covering the sheet (see Figure 6). Example:

Sheet 2890-2 falls within NL-34-01, 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 6).

**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 below the diagram (see also 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.

All available first and second order administrative division boundary information shall be shown in the Boundaries diagram.



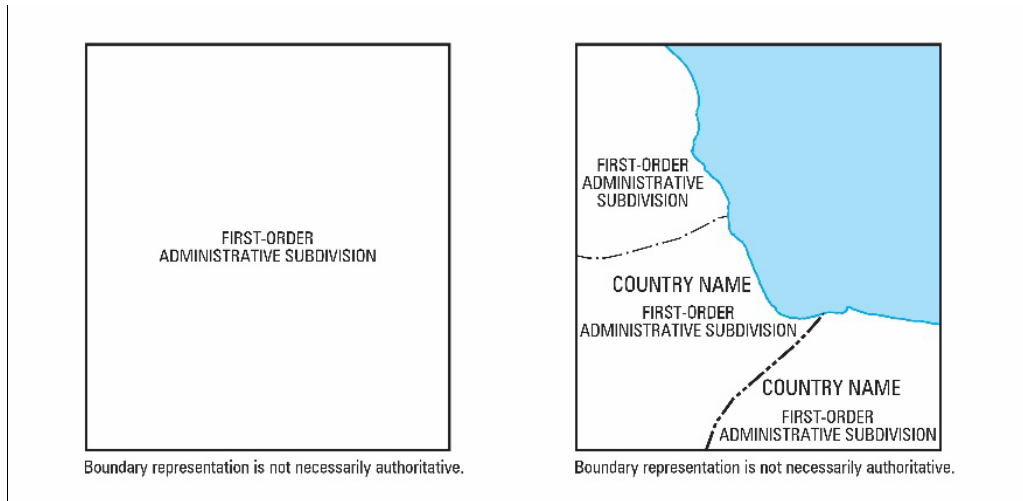


Figure 19. Boundary diagrams.

### 3.3.6.2.1 Administrative boundaries and divisions

When possible, administrative boundaries and divisions should be labelled 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 divisions shall be placed within their areas of the diagram.

#### 3.3.6.2.1.3 Administrative subdivision 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 centred 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.

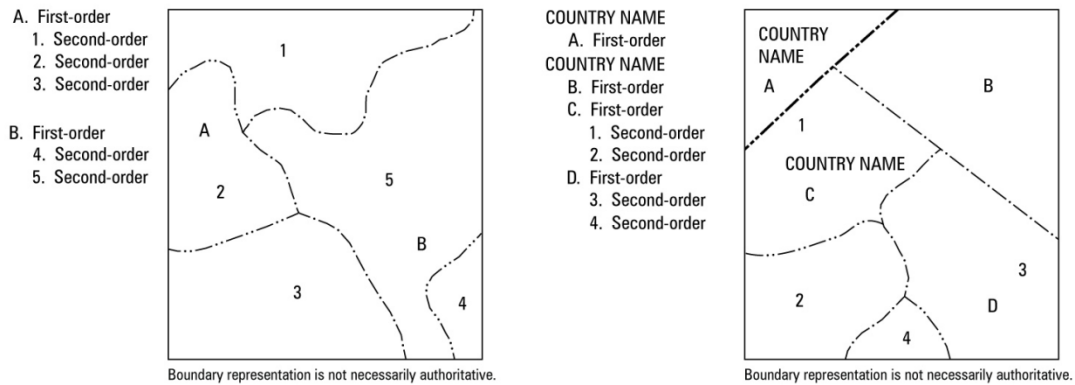


Figure 20. Alternate boundary diagrams.

### 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 Subdivision 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 subdivision boundaries

Third-order administrative subdivision 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 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 or 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.

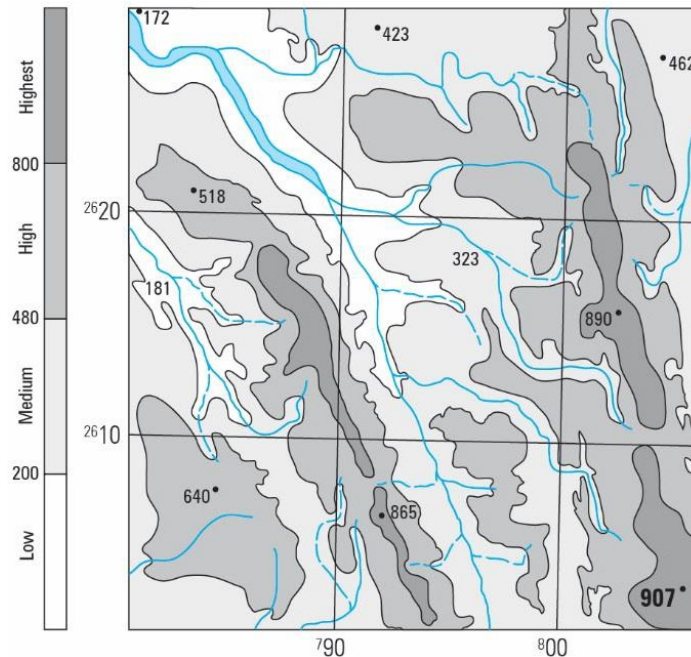


Figure 21. Sample Elevation Guide.

### 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. The elevation band lines shall be consistent with the elevation contour interval on the map and, where possible, the index elevation contour interval.

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 (one or more spot heights may exist with the identical value) 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. Maps containing large areas of tidal water or very flat terrain should have fewer than ten spot elevations.

#### 3.3.6.3.4 Insignificant relief

When the range of elevation is insignificant, generally less than 100 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 labelled 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) that contain any/all types of administrative boundaries and administrative divisions or administrative division name(s):

Boundary representation is not necessarily authoritative.

See also section 3.3.6.2.3 for the application of a disclaimer note for “Approximate boundaries”.

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

A 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. For example:

GEOGRAPHIC NAMES OR THEIR SPELLING DO NOT NECESSARILY REFLECT RECOGNITION  
OF THE POLITICAL STATUS OF AN AREA BY THE [COUNTRY NAME] GOVERNMENT.

A note shall be included in the “NOTES” section of maps which contain names that may not conform to this product specification or geographic name organizations. For example:

PROPER NAMES ON THIS MAP MAY NOT CONFORM TO PRODUCT SPECIFICATIONS.

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 an international 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 BOUNDARIES 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 as well as other less common legend entries.

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 Labelling 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 labelled 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. The highest elevation value may be “land” (black) or “snow, ice” (cyan).

### **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 DTM50 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. 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 (curve and surface) 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). 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).

Akna .....	mine shaft
Banya .....	mine
Berc .....	peak
Domb .....	hill
Erdo .....	forest
Hegy .....	mountain
Hora .....	mountain
Menedekház .....	inn
Myslivna .....	hunting lodge
Oldal .....	slope
Orhaz .....	peak
Órom .....	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).

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.

Berg, bergl	.....	mountain	.....	Berg	.....	monte
Doline	.....	valley	.....	Tal	.....	valle
Dvar	.....	estate	.....	Gut	.....	proprietà
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	.....	Ruine	.....	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.

-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).

Cila, 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).

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 26 and Figure 27 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. All notes print black except those referring to vertical obstructions. Vertical obstruction notes print Blue072 (aero blue).

### 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 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 (PREDOMINANT) RAILWAY GAUGE IS [0.00] METERS.  
*[Not shown on sheets in countries with no known Railways]*

### 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 MAY 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 MARITIME 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, SAND DUNE AREAS, AND SNOW/ICE FIELDS IS SUBJECT TO CHANGE AND SHOULD BE REFERRED TO WITH CAUTION.  
*[Shown on sheets containing Sand Dunes and/or Extraction Mines]*

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

THE NORMAL (PREDOMINANT) RAILWAY GAUGE IN [COUNTRY OR AREA] IS [0.00] METERS.  
*[Shown on sheets containing more than one normal Railway gauge]*

NARROW GAUGE RAILWAYS ON THIS MAP ARE [0.00] METERS.  
*[Shown on sheets containing unlabelled narrow gauge Railways with a single narrow Railway gauge in a country or area where the normal Railway gauge is not narrow gauge]*

NARROW GAUGE RAILWAYS IN [COUNTRY OR AREA] ARE [0.00] METERS.  
 NARROW GAUGE RAILWAYS IN [COUNTRY OR AREA] ARE [0.00] METERS.  
*[Shown on sheets containing unlabelled narrow gauge Railways with a single narrow Railway gauge in each country or area where the normal Railway gauge is not narrow gauge]*

CAUTION: CABLE/CABLEWAY PYLONS, INDICATED BY AN UNLABELLED 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  $\geq$  46 meters with variable heights above ground level]*

CAUTION: CABLE/CABLEWAY PYLONS, INDICATED BY AN UNLABELLED 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  $\geq$  46 meters with non-variable heights above ground level]*

CAUTION: CABLE/CABLEWAY LINES, INDICATED BY AN UNLABELLED 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 UNLABELLED 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 LARGE BUILT-UP AREAS, 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 [COUNTRY NAME] GOVERNMENT.  
*[Shown only when indicated in project instructions, see section 3.4.1.2]*



PROPER NAMES ON THIS MAP MAY NOT CONFORM TO PRODUCT SPECIFICATIONS.  
*[Shown only when indicated in project instructions, see section 3.4.1.2]*

### **3.8 Coloured 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 & Blue/Green-Light readable notes**

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

CAUTION: VERIFY RED-LIGHT & 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. This allows flexibility to the cartographic finisher to determine the most appropriate target objective.

#### **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.

For less developed locations, e.g. regional island areas in the South Pacific Ocean, ferry objectives should be shown as the "Port" or "Town" followed by the applicable "Island name" shown in parenthesis.

Example: "Vunisea (Kadavu Island) 43 km."

#### **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 centred 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 Catalogue Report Organization**

The DTM50 AC Report is organized into the following annexes:

- Annex A – Annotations: presents all annotations from the DTM50 AC. These annotations (along with portrayed feature data) constitute the basic components of a DTM50 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 DTM50 AC). Directly below this header is a reference to the section of the DTM50 AC text that describes the annotation (Figure 28).



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 DTM50 metadata elements as listed in the DTM50 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 DTM50 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.
  - o 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.
  - o The rule criteria may take into account the value of the various metadata elements for the given DTM50. 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).

Boundary Disclaimer Note (Multiple Language)			
Style Sheet References:		Version Notes:	
Arrangement B		Shown below the boundaries diagram.	
Version Rules			
Reference #:	Description:	Criteria:	
AC-0003	Multiple-language	[displayLanguage.count] > 1	
Components			
Reference #:	200804	Name:	Boundary Disclaimer Note
Symbol Graphic Reference:		Type:	Text
Color:		"Boundary representation is not necessarily authoritative."	
Type Specification:		Black	
		Zurich Condensed (5 point, Medium, Mixed Case)	
Reference #:	200806	Name:	Boundary Disclaimer Note (Translated)
Symbol Graphic Reference:		Type:	Text
Color:		"Boundary representation is not necessarily authoritative." (translated)	
Type Specification:		Black	
		Zurich Condensed (6 point, Light, Mixed Case)	

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).

#### Boundary Disclaimer Note (Multiple 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 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).

<p>Style Sheet References:</p> <p>Arrangement B</p>	<p>Version Notes:</p> <p>Shown below the boundaries diagram.</p>
-----------------------------------------------------	------------------------------------------------------------------

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 DTM50 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-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 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

Reference #: 200411	Name: Ellipsoid Note	Type: Text
Symbol Graphic Reference:	"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The ellipsoid used for all maps is the World Geodetic System 1984.	
Reference #: 202200	Name: Primary Map Multiple Grid Note	Type: Text
Symbol Graphic Reference:	"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:	The grid system used for all maps is UTM. For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the DPS AC.	
Reference #: 200413	Name: Projection Note	Type: Text
Symbol Graphic Reference:	"PROJECTION...TRANSVERSE MERCATOR"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The projection for all maps is Transverse Mercator.	
Reference #: 200414	Name: Vertical Datum Note	Type: Text
Symbol Graphic Reference:	"VERTICAL DATUM...MEAN SEA LEVEL"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The vertical datum for all maps is Mean Sea Level.	
Reference #: 200415	Name: Horizontal Datum Note	Type: Text
Symbol Graphic Reference:	"HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The horizontal datum for all maps is the 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 colour 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 **colour** of the text.
- The **type specification** of the text, including font, size, weight, and case (upper or mixed case).



---

Reference #: 202701	Name: JOG-A Note	Type: Text
Symbol Graphic Reference:	"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**, normally a **note** that indicates the external reference.

---

Reference #: 203001	Name: Bar Scale	Type: Graphic
Symbol Graphic Reference:	(none)	
Note:	Refer to 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 – Defence Topographic Map Style Sheet Arrangement “A” – single language/single grid (attached).
- B.2 – Defence Topographic Map Style Sheet, Arrangement “B” – multiple languages/overlapping grid (attached).
- B.3 & B.4 - *intentionally excluded*
- B.5 – Master Legend: illustrates the design and composition of a standard symbol legend to be used on a DTM50.
- 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 labelling information for when a major grid junction falls within sheet limits.

## **Annex A - Annotations**

This annex presents all annotations from the DTM50 DPS Annotation Catalogue. 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

DPS AC Section: 3.3.6.1

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Line System	sheetLineSystem	The sheet line system used to define the borders of the 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-0001	Always Include	TRUE

## Adjoining Sheets Diagram (Single Language)

#### Style Sheet References:

1:50,000: Arrangement A  
1:100,000: Arrangement A

#### Version Notes:

(none)

### Version Rules

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

### Components

Reference #: 202601	Name: Adjoining Sheets Diagram Title	Type: Text
Symbol Graphic Reference:	"ADJOINING SHEETS"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	
Reference #: 202603	Name: Adjoining Sheets Diagram Graphic	Type: Map
Note:	Refer to DPS AC section 3.3.6.1 for detailed instructions and specifications on the construction of the adjoining sheets diagram.	
Reference #: 202604	Name: For Index Purposes Only Note	Type: Text
Symbol Graphic Reference:	"For index purposes only - not necessarily an indication of published maps."	
Color:	Black	
Type Specification:	Zurich Condensed (4 point, Medium, Mixed Case)	

## Adjoining Sheets Diagram (Multiple Language)

#### Style Sheet References:

1:50,000: Arrangement B  
1:100,000: Arrangement B

#### Version Notes:

(none)

### Version Rules

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

### Components

Reference #: 202601	Name: Adjoining Sheets Diagram Title	Type: Text
Symbol Graphic Reference:	"ADJOINING SHEETS"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	
Reference #: 202602	Name: Adjoining Sheets Diagram Title (Translated)	Type: Text

Symbol Graphic Reference: "ADJOINING SHEETS" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

Reference #: 202603      Name: Adjoining Sheets Diagram Graphic      Type: Map

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

Reference #: 202604      Name: For Index Purposes Only Note      Type: Text  
 Symbol Graphic Reference: "For index purposes only - not necessarily an indication of published maps."  
 Color: Black  
 Type Specification: Zurich Condensed (4 point, Medium, Mixed Case)

Reference #: 202605      Name: For Index Purposes Only Note (Translated)      Type: Text  
 Symbol Graphic Reference: "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

DPS AC Section: 3.1.5

### Metadata Elements

Name:	Substitution Value:	Description:
Reference Number	rn	The unique Reference Number (RN) of the map sheet.
NATO/National Stock Number	nsn	The unique NATO/National Stock Number (NSN) of the map sheet.
Edition Number	editionNumber	The edition number of the map sheet.

### Annotation Rules

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

Style Sheet References:	Version Notes:
1:50,000: Arrangement A	(none)
1:100,000: Arrangement A	

### Components

Reference #: 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".

Reference #: 201502      Name: NSN Note      Type: Text  
 Symbol Graphic Reference: "NSN [nsn]"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

Reference #: 201503      Name: Ref Number Label      Type: Text  
 Symbol Graphic Reference: "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.

Reference #: 201504      Name: Ref Number      Type: Text  
 Symbol Graphic Reference: "[rn]"  
 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.

Reference #: 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".		
Reference #: 201506	Name: Edition Bar Code Label	Type: Text
Symbol Graphic Reference:	"ED. NO."	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Reference #: 201507	Name: Edition Bar Code Number	Type: Text
Symbol Graphic Reference:	"[editionNumber]"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

## Bar Scale

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:
1:50,000: Arrangement A	(none)
1:100,000: (n/a)	

### Version Rules

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

### Components

Reference #: 203001	Name: Bar Scale (1:50K)	Type: Graphic
Symbol Graphic Reference:	(none)	
Note: Refer to 1:50,000 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:	Version Notes:
1:50,000: Arrangement B	(none)
1:100,000: (n/a)	

### Version Rules

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

### Components

Reference #: 203002	Name: Bar Scale (1:50K, Translated)	Type: Graphic
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Symbol Graphic Reference: (none)

Note: Refer to 1:50,000 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:

Version Notes:

1:50,000: (n/a)

(none)

1:100,000: Arrangement A

#### Version Rules

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

#### Components

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

Symbol Graphic Reference: (none)

Note: Refer to 1:100,000 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:

Version Notes:

1:50,000: (n/a)

(none)

1:100,000: Arrangement B

#### Version Rules

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

#### Components

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

Symbol Graphic Reference: (none)

Note: Refer to 1:100,000 Arrangement B Style Sheet for detailed instructions and specifications on the construction of the bar scale.

## Boundaries Diagram

DPS AC Section: 3.3.6.2

#### Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on 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

### Boundaries Diagram (Single Language)

Style Sheet References:

Version Notes:

1:50,000: Arrangement A

(none)

1:100,000: Arrangement A

#### Version Rules

Reference #:	Description:	Criteria:
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AC-0002 Single-language

[displayLanguage.count] = 1

### Components

Reference #:	202401	Name:	Boundaries Diagram Title	Type:	Text
Symbol Graphic Reference:			"BOUNDARIES"		
Color:			Black		
Type Specification:			Zurich Condensed (9 point, Bold, Upper Case)		

Reference #:	202402	Name:	Boundaries Diagram Graphic	Type:	Map
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Note: Refer to 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:

1:50,000: Arrangement B

1:100,000: Arrangement B

### Version Notes:

(none)

### Version Rules

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

### Components

Reference #:	202401	Name:	Boundaries Diagram Title	Type:	Text
Symbol Graphic Reference:			"BOUNDARIES"		
Color:			Black		
Type Specification:			Zurich Condensed (9 point, Bold, Upper Case)		

Reference #:	202403	Name:	Boundaries Diagram Title (Translated)	Type:	Text
Symbol Graphic Reference:			"BOUNDARIES" (translated)		
Color:			Black		
Type Specification:			Zurich Condensed (9 point, Medium, Upper Case)		

Reference #:	202402	Name:	Boundaries Diagram Graphic	Type:	Map
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Note: Refer to DPS AC section 3.3.6.2 for detailed instructions and specifications on the construction of the boundaries diagram.

## Boundary Disclaimer Note

DPS AC Section: 3.4.1.1

### Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the 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:

1:50,000: Arrangement A

1:100,000: Arrangement A

### Version Notes:

Shown below the boundaries diagram.

### Version Rules

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

### Components

<b>Reference #:</b> 200804	<b>Name:</b> Boundary Disclaimer Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"Boundary representation is not necessarily authoritative."	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Mixed Case)	

### Boundary Disclaimer Note (Multiple Language)

<b>Style Sheet References:</b>	<b>Version Notes:</b>
1:50,000: Arrangement B	Shown below the boundaries diagram.
1:100,000: Arrangement B	

### Version Rules

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

<b>Reference #:</b> 200804	<b>Name:</b> Boundary Disclaimer Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"Boundary representation is not necessarily authoritative."	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Mixed Case)	

<b>Reference #:</b> 200806	<b>Name:</b> Boundary Disclaimer Note (Translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"Boundary representation is not necessarily authoritative." (translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Light, Mixed Case)	

### Classification Marking - Lower

DPS AC Section: 3.2.1

### Metadata Elements

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

### Annotation Rules

<b>Reference #:</b> AC-0004	<b>Description:</b> Classified	<b>Criteria:</b> [sheetClassificationCode] is not 'unclassified'
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### Main Classification Box (Classified, No Special Handling, Single Language)

<b>Style Sheet References:</b>	<b>Version Notes:</b>
1:50,000: Keyed Notes	(none)
1:100,000: Keyed Notes	

### Version Rules

<b>Reference #:</b> AC-0004	<b>Description:</b> Classified	<b>Criteria:</b> [sheetClassificationCode] is not 'unclassified'
AC-0023	No Special Handling	[sheetSpecialHandlingInfo] Is Null
AC-0002	Single-language	[displayLanguage.count] = 1



Components

Reference #: 200211      Name: Classification Note      Type: Text  
 Symbol Graphic Reference: "[sheetClassificationCode]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (20 point, Bold, Upper Case)

Reference #: 200213      Name: Downgrading/Declassification Note      Type: Text  
 Symbol Graphic Reference: "[sheetDeclassInfo]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (10 point, Bold, Upper Case)

**Main Classification Box (Classified, No Special Handling, Multiple Language)**

Style Sheet References:

Version Notes:

1:50,000: Keyed Notes

(none)

1:100,000: Keyed Notes

Version Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'
AC-0023	No Special Handling	[sheetSpecialHandlingInfo] Is Null
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203108      Name: Classification Note (translated)      Type: Text  
 Symbol Graphic Reference: "[sheetClassificationCode]" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (14 point, Medium, Upper Case)

Reference #: 203109      Name: Downgrading/Declassification Note (translated)      Type: Text  
 Symbol Graphic Reference: "[sheetDeclassInfo]" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

**Main Classification Box (Classified, Special Handling, Single Language)**

Style Sheet References:

Version Notes:

1:50,000: Keyed Notes

(none)

1:100,000: Keyed Notes

Version Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'
AC-0033	Special Handling	[sheetSpecialHandlingInfo] Is Not Null
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 200211      Name: Classification Note      Type: Text  
 Symbol Graphic Reference: "[sheetClassificationCode]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (20 point, Bold, Upper Case)

Reference #: 200212      Name: Caveat/Special Handling Note      Type: Text

Symbol Graphic Reference: "[sheetSpecialHandlingInfo]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (10 point, Bold, Upper Case)

Reference #: 200213      Name: Downgrading/Declassification Note      Type: Text  
 Symbol Graphic Reference: "[sheetDeclassInfo]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (10 point, Bold, Upper Case)

### Main Classification Box (Classified, Special Handling, Multiple Language)

Style Sheet References:      Version Notes:  
 1:50,000: Keyed Notes      (none)  
 1:100,000: Keyed Notes

#### Version Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'
AC-0033	Special Handling	[sheetSpecialHandlingInfo] Is Not Null
AC-0003	Multiple-language	[displayLanguage.count] > 1

#### Components

Reference #: 203108      Name: Classification Note (translated)      Type: Text  
 Symbol Graphic Reference: "[sheetClassificationCode]" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (14 point, Medium, Upper Case)

Reference #: 203110      Name: Caveat/Special Handling Note (translated)      Type: Text  
 Symbol Graphic Reference: "[sheetSpecialHandlingInfo]" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203109      Name: Downgrading/Declassification Note (translated)      Type: Text  
 Symbol Graphic Reference: "[sheetDeclassInfo]" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

### Classification Marking - Upper

DPS AC Section: 3.2.1

#### Metadata Elements

Name:	Substitution Value:	Description:
Classification (Code)	sheetClassificationCode	The security classification of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

#### Annotation Rules

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

### Upper Classification Note (Single Language)

Style Sheet References:      Version Notes:  
 1:50,000: Keyed Notes      (none)  
 1:100,000: Keyed Notes

Version Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #:	Name:	Type:
200004	Upper Classification Note	Text
Symbol Graphic Reference:	"[sheetClassificationCode]"	
Color:	Dk-Brown1815	
Type Specification:	Zurich Condensed (20 point, Bold, Upper Case)	

Upper Classification Note (Multiple Language)

Style Sheet References:	Version Notes:
1:50,000: Keyed Notes	(none)
1:100,000: Keyed Notes	

Version Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #:	Name:	Type:
203111	Upper Classification Note (translated)	Text
Symbol Graphic Reference:	"[sheetClassificationCode]" (translated)	
Color:	Dk-Brown1815	
Type Specification:	Zurich Condensed (14 point, Medium, Upper Case)	

Colored Light Readable Notes

DPS AC Section: 3.8

Metadata Elements

Name:	Substitution Value:	Description:
Viewing Conditions - Red- and Blue/Green-Light Readability	redBlueGreenLightReadable	Whether or not the 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

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

Red-Light Readable Note (Single Language)

Style Sheet References:	Version Notes:
1:50,000: Arrangement A	(none)
1:100,000: Arrangement A	

Version Rules

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

Components

Reference #:	Name:	Type:
202100	Red-light Readability Caveat Note	Text

Symbol Graphic Reference: "CAUTION: VERIFY RED-LIGHT READABILITY"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (8 point, Bold, Upper Case)

**Red-Light Readable Note (Multiple Language)**

**Style Sheet References:** 1:50,000: Arrangement B  
 1:100,000: Arrangement B  
**Version Notes:** (none)

**Version Rules**

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

**Components**

Reference #:	Name:	Type:
202100	Red-light Readability Caveat Note	Text
Symbol Graphic Reference: "CAUTION: VERIFY RED-LIGHT READABILITY"		
Color: Dk-Brown1815		
Type Specification: Zurich Condensed (8 point, Bold, Upper Case)		
202101	Red-light Readability Caveat Note (Translated)	Text
Symbol Graphic Reference: "CAUTION: VERIFY RED-LIGHT READABILITY" (translated)		
Color: Dk-Brown1815		
Type Specification: Zurich Condensed (8 point, Medium, Upper Case)		

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

**Style Sheet References:** 1:50,000: (none)  
 1:100,000: (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**

Reference #:	Name:	Type:
202102	Red-light and Blue/Green-Light Readability Caveat Note	Text
Symbol Graphic Reference: "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:** 1:50,000: (none)  
 1:100,000: (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

Reference #: 202102	Name: Red-light and Blue/Green-Light Readability Caveat Note	Type: Text
Symbol Graphic Reference:	"CAUTION: VERIFY RED-LIGHT AND BLUE/GREEN-LIGHT READABILITY"	
Color:	Dk-Brown1815	
Type Specification:	Zurich Condensed (8 point, Medium, Mixed Case)	
Reference #: 202103	Name: Red-light and Blue/Green-Light Readability Caveat Note (Translated)	Type: Text
Symbol Graphic Reference:	"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

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 map sheet.
Data Content - Maximum Elevation	dataContent.maxElevation	The maximum elevation value over the geographic extent of the map sheet.
Data Content - Minimum Elevation	dataContent.minElevation	The minimum elevation value over 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-0001	Always Include	TRUE

## Contour Interval Note (Single Language)

Style Sheet References:	Version Notes:
1:50,000: Arrangement A	(none)
1:100,000: Arrangement A	

### Version Rules

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

### Components

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

## Contour Interval Note (Multiple Language)

Style Sheet References:	Version Notes:
1:50,000: Arrangement B	(none)
1:100,000: Arrangement B	

### Version Rules

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

### Components

Reference #: 200511	Name: Intermediate Contour Interval Note	Type: Text
Symbol Graphic Reference:	"CONTOUR INTERVAL [contourInterval.intermediate] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	
Reference #: 200513	Name: Intermediate Contour Interval Note (translated)	Type: Text
Symbol Graphic Reference:	"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:	Version Notes:
1:50,000: (none)	(none)
1:100,000: (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

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

### Maximum Elevation Note (Multiple Language)

Style Sheet References:	Version Notes:
1:50,000: (none)	(none)
1:100,000: (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

Reference #: 200515	Name: Maximum Elevation Note	Type: Text
Symbol Graphic Reference:	"MAXIMUM ELEVATION [dataContent.maxElevation] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	
Reference #: 200517	Name: Maximum Elevation Note (translated)	Type: Text
Symbol Graphic Reference:	"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:	Version Notes:
1:50,000: (none)	(none)

1:100,000: (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

Reference #: 200516	Name: No Contour Note	Type: Text
Symbol Graphic Reference:	"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:	Version Notes:
1:50,000: (none)	(none)
1:100,000: (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

Reference #: 200516	Name: No Contour Note	Type: Text
Symbol Graphic Reference:	"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)	
Reference #: 200518	Name: No Contour Note (translated)	Type: Text
Symbol Graphic Reference:	"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

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 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:
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1:50,000: Arrangement A (none)

1:100,000: 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

Reference #:	Name:	Type:
200512	Single Supplementary Contour Interval Note	Text
<b>Symbol Graphic Reference:</b>	"SUPPLEMENTARY CONTOUR INTERVAL [contourInterval.supplementary] METERS"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Bold, Upper Case)	

Single Supplementary Contour Note (Multiple Language)

Style Sheet References: Version Notes:

1:50,000: Arrangement B (none)

1:100,000: 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

Reference #:	Name:	Type:
200512	Single Supplementary Contour Interval Note	Text
<b>Symbol Graphic Reference:</b>	"SUPPLEMENTARY CONTOUR INTERVAL [contourInterval.supplementary] METERS"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Bold, Upper Case)	
200514	Single Supplementary Contour Interval Note (translated)	Text
<b>Symbol Graphic Reference:</b>	"SUPPLEMENTARY CONTOUR INTERVAL [contourInterval.supplementary] METERS" (translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)	

Multiple Supplementary Contour Note (Single Language)

Style Sheet References: Version Notes:

1:50,000: (none) (none)

1:100,000: (none)

Version Rules

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

Components

Reference #:	Name:	Type:
202301	Multiple Supplementary Contour Interval Note	Text



Symbol Graphic Reference: "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: 1:50,000: (none)  
 1:100,000: (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**

Reference #: 202301	Name: Multiple Supplementary Contour Interval Note	Type: Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOURS AT [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Bold, Upper Case)	
Reference #: 202302	Name: Multiple Supplementary Contour Interval Note (Translated)	Type: Text
Symbol Graphic Reference:	"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**

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: 1:50,000: Arrangement A  
 1:100,000: Arrangement A  
 Version Notes: (none)

**Version Rules**

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

**Components**

Reference #: 200111	Name: Copyright Note	Type: Text
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Symbol Graphic Reference: "© COPYRIGHT [copyrightDate] [copyrightNoteText]"  
 Color: Black  
 Type Specification: Zurich Condensed (7 point, Medium, Upper Case)

### Copyright Note (Multiple Language)

Style Sheet References: Version Notes:

1:50,000: Arrangement B (none)  
 1:100,000: Arrangement B

### Version Rules

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

### Components

Reference #:	200111	Name:	Copyright Note	Type:	Text
Symbol Graphic Reference:	"© COPYRIGHT [copyrightDate] [copyrightNoteText]"				
Color:	Black				
Type Specification:	Zurich Condensed (7 point, Medium, Upper Case)				
Reference #:	200113	Name:	Copyright Note (translated)	Type:	Text
Symbol Graphic Reference:	"© COPYRIGHT [copyrightDate] [copyrightNoteText]" (translated)				
Color:	Black				
Type Specification:	Zurich Condensed (7 point, Light, Upper Case)				

### Currency Notes

DPS AC Section: 3.4.2

### Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the map sheet.
Data Content Lineage - Imagery Source Date	[lineage.source[imagery].sourceCitation.date]	The date (YYYY) of the imagery used to create the map sheet.
Data Content Lineage - Boundary Source Date	[lineage.source[boundaryData].sourceCitation.date]	The date (YYYY) of the boundary data used to create 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

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

Style Sheet References: Version Notes:

1:50,000: Arrangement A This specification only covers the most common examples of the Currency Notes. See DPS AC section 3.4.2.3 for additional variations.  
 1:100,000: 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

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

Reference #: 201002      Name: International Boundary Currency Note      Type: Text  
 Symbol Graphic Reference: "INTERNATIONAL BOUNDARIES 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:

Version Notes:

1:50,000: Arrangement B  
 1:100,000: Arrangement B

This specification only covers the most common examples of the Currency Notes. See 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

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

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Reference #: 201002      Name: International Boundary Currency Note      Type: Text  
 Symbol Graphic Reference: "INTERNATIONAL BOUNDARIES AS OF [lineage.source[boundaryData].sourceCitation.date]"  
 Color: Black  
 Type Specification: Zurich Condensed (7 point, Bold, Upper Case)

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Reference #: 201003      Name: Standard Currency Note (translated)      Type: Text  
 Symbol Graphic Reference: "MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (7 point, Medium, Upper Case)

---

Reference #: 201004      Name: International Boundary Currency Note (translated)      Type: Text  
 Symbol Graphic Reference: "INTERNATIONAL BOUNDARIES 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:

1:50,000: (none)  
 1:100,000: (none)

This specification only covers the most common examples of the Currency Notes. See 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-0002	Single-language	[displayLanguage.count] = 1

#### Components

Reference #: 201001      Name: Standard Currency Note      Type: Text

Symbol Graphic Reference: "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:

1:50,000: (none)  
 1:100,000: (none)

Version Notes:

This specification only covers the most common examples of the Currency Notes. See 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

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

### Declination Diagram

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 primary map.
Primary Map Minor Grid Zone	primaryMapMinorGridZone	The minor grid zone(s) to be shown on the 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

### Declination Diagram (Single Grid, Single Language)

Style Sheet References:

1:50,000: Arrangement A  
 1:100,000: Arrangement A

Version Notes:

Refer to Annotation Catalog B.6 and B.7 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

Version Rules

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

Declination Diagram (Multiple Grid, Single Language)

Style Sheet References:

- 1:50,000: Arrangement A/B
- 1:100,000: Arrangement A/B

Version Notes:

Refer to Annotation Catalog B.6 and B.7 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

Version Rules

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

Declination Diagram (Single Grid, Multiple Language)

Style Sheet References:

- 1:50,000: Arrangement A/B
- 1:100,000: Arrangement A/B

Version Notes:

Refer to Annotation Catalog B.6 and B.7 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

Version Rules

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

Declination Diagram (Multiple Grid, Multiple Language)

Style Sheet References:

- 1:50,000: Arrangement B
- 1:100,000: Arrangement B

Version Notes:

Refer to Annotation Catalog B.6 and B.7 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

Version Rules

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

# Elevation Guide Diagram

DPS AC Section: 3.3.6.3

## Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the map sheet.
Grid System	gridSystem	The grid system to be used for 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:

- 1:50,000: Arrangement A
- 1:100,000: Arrangement A

### Version Notes:

Refer to 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

Reference #:	Name:	Type:
202901	Elevation Guide Title	Text
Symbol Graphic Reference:	"ELEVATION GUIDE"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Reference #:	Name:	Type:
202903	Elevation Guide Graphic	Map

Note: Refer to 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:

- 1:50,000: Arrangement B
- 1:100,000: Arrangement B

### Version Notes:

Refer to 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

Reference #:	Name:	Type:
202901	Elevation Guide Title	Text
Symbol Graphic Reference:	"ELEVATION GUIDE"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Reference #:	Name:	Type:
202902	Elevation Guide Title (Translated)	Text
Symbol Graphic Reference:	"ELEVATION GUIDE" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

Reference #:	Name:	Type:
202903	Elevation Guide Graphic	Map

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

## File Preparation Note

DPS AC Section: 3.1.7.3

### Metadata Elements

Name:	Substitution Value:	Description:
File Preparation Date	preparationDate	The preparation date (MM-YYYY) of the file used to make the 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

## File Preparation Note (Single Language)

#### Style Sheet References:

1:50,000: Arrangement A  
 1:100,000: 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

Reference #: 203112	Name: File Preparation Note	Type: Text
Symbol Graphic Reference:	"FILE PREPARED BY.....[producingAgencyCode] [preparationDate]"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

## File Preparation Note (Multiple Language)

#### Style Sheet References:

1:50,000: Arrangement B  
 1:100,000: 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

Reference #: 203112	Name: File Preparation Note	Type: Text
Symbol Graphic Reference:	"FILE PREPARED BY.....[producingAgencyCode] [preparationDate]"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Reference #: 203113	Name: File Preparation Note (Translated)	Type: Text
Symbol Graphic Reference:	"FILE PREPARED BY.....[producingAgencyCode] [preparationDate]" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

## Geodetic Information and Composite Notes

DPS AC Section: 3.3.1.1

### Metadata Elements

Name:	Substitution Value:	Description:
Ellipsoid	ellipsoid	The ellipsoid to be used for the map sheet.
Grid System	gridSystem	The grid system to be used for map sheets.
Primary Map Major Grid Zone	primaryMapMajorGridZone	The major grid zone(s) to be shown on the primary map.
Primary Map Minor Grid Zone	primaryMapMinorGridZone	The minor grid zone(s) to be shown on the primary map.
Projection	projection	The projection to be used for map sheets.
Horizontal Datum	horizontalDatum	The horizontal datum to be applied to the map sheet.
Vertical Datum	verticalDatum	The vertical datum to be applied to 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

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

#### Style Sheet References:

1:50,000: Arrangement A  
1:100,000: Arrangement A

#### Version Notes:

The File Preparation 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

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



Symbol Graphic Reference: "HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"  
 Color: Black  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)  
 Note: The horizontal datum for all maps is the World Geodetic System 1984.

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

Style Sheet References:

Version Notes:

1:50,000: (none)

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

1:100,000: (none)

#### Version Rules

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

#### Components

Reference #:	Name:	Type:
200411	Ellipsoid Note	Text
Symbol Graphic Reference: "ELLIPSOID...WORLD GEODETIC SYSTEM 1984"		
Color: Black		
Type Specification: Zurich Condensed (6 point, Medium, Upper Case)		
Note: The ellipsoid used for all maps is the World Geodetic System 1984.		
202200	Primary Map Multiple Grid Note	Text
Symbol Graphic Reference: "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: The grid system used for all maps is UTM. For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the DPS AC.		
200413	Projection Note	Text
Symbol Graphic Reference: "PROJECTION...TRANSVERSE MERCATOR"		
Color: Black		
Type Specification: Zurich Condensed (6 point, Medium, Upper Case)		
Note: The projection for all maps is Transverse Mercator.		
200414	Vertical Datum Note	Text
Symbol Graphic Reference: "VERTICAL DATUM...MEAN SEA LEVEL"		
Color: Black		
Type Specification: Zurich Condensed (6 point, Medium, Upper Case)		
Note: The vertical datum for all maps is Mean Sea Level.		
200415	Horizontal Datum Note	Text
Symbol Graphic Reference: "HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"		
Color: Black		
Type Specification: Zurich Condensed (6 point, Medium, Upper Case)		
Note: The horizontal datum for all maps is the World Geodetic System 1984.		

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

Style Sheet References:

Version Notes:

1:50,000: (none)

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

1:100,000: (none)

#### Version Rules

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

## Components

<b>Reference #:</b> 203114	<b>Name:</b> Ellipsoid Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (5 point, Medium, Upper Case)	
<b>Note:</b> The ellipsoid used for all maps is the World Geodetic System 1984.		
<b>Reference #:</b> 203115	<b>Name:</b> Primary Map Multiple Grid Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"GRID...1,000 METER UTM ZONE [primaryMapMajorGridZone] (BLACK NUMBERED LINES)" 1,000 METER UTM ZONE [primaryMapMinorGridZone] (BLUE NUMBERED TICKS)"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (5 point, Medium, Upper Case)	
<b>Note:</b> The grid system used for all maps is UTM. For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the DPS AC.		
<b>Reference #:</b> 203116	<b>Name:</b> Projection Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"PROJECTION...TRANSVERSE MERCATOR"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (5 point, Medium, Upper Case)	
<b>Note:</b> The projection for all maps is Transverse Mercator.		
<b>Reference #:</b> 203117	<b>Name:</b> Vertical Datum Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"VERTICAL DATUM...MEAN SEA LEVEL"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (5 point, Medium, Upper Case)	
<b>Note:</b> The vertical datum for all maps is Mean Sea Level.		
<b>Reference #:</b> 203118	<b>Name:</b> Horizontal Datum Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (5 point, Medium, Upper Case)	
<b>Note:</b> The horizontal datum for all maps is the World Geodetic System 1984.		
<b>Reference #:</b> 200417	<b>Name:</b> Ellipsoid Note (translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"ELLIPSOID...WORLD GEODETIC SYSTEM 1984" (translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (5 point, Light, Upper Case)	
<b>Note:</b> The ellipsoid used for all maps is the World Geodetic System 1984.		
<b>Reference #:</b> 200418	<b>Name:</b> Grid Note (translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"GRID...1,000 METER UTM ZONE [primaryMapMajorGridZone]" (translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (5 point, Light, Upper Case)	
<b>Note:</b> The grid system used for all maps is UTM.		
<b>Reference #:</b> 200419	<b>Name:</b> Projection Note (translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"PROJECTION...TRANSVERSE MERCATOR" (translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (5 point, Light, Upper Case)	
<b>Note:</b> The projection for all maps is Transverse Mercator.		
<b>Reference #:</b> 200420	<b>Name:</b> Vertical Datum Note (translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"VERTICAL DATUM...MEAN SEA LEVEL" (translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (5 point, Light, Upper Case)	
<b>Note:</b> The vertical datum for all maps is Mean Sea Level.		
<b>Reference #:</b> 200421	<b>Name:</b> Horizontal Datum Note (translated)	<b>Type:</b> Text

Symbol Graphic Reference: "HORIZONTAL DATUM...[horizontalDatum]" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (5 point, Light, Upper Case)  
 Note: The horizontal datum for all maps is the World Geodetic System 1984.

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

Style Sheet References:

Version Notes:

1:50,000: Arrangement B

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

1:100,000: Arrangement B

Version Rules

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

Components

Reference #:	203114	Name:	Ellipsoid Note	Type:	Text
Symbol Graphic Reference:	"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"				
Color:	Black				
Type Specification:	Zurich Condensed (5 point, Medium, Upper Case)				
Note:	The ellipsoid used for all maps is the World Geodetic System 1984.				
Reference #:	203115	Name:	Primary Map Multiple Grid Note	Type:	Text
Symbol Graphic Reference:	"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 (5 point, Medium, Upper Case)				
Note:	The grid system used for all maps is UTM. For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the DPS AC.				
Reference #:	203116	Name:	Projection Note	Type:	Text
Symbol Graphic Reference:	"PROJECTION...TRANSVERSE MERCATOR"				
Color:	Black				
Type Specification:	Zurich Condensed (5 point, Medium, Upper Case)				
Note:	The projection for all maps is Transverse Mercator.				
Reference #:	203117	Name:	Vertical Datum Note	Type:	Text
Symbol Graphic Reference:	"VERTICAL DATUM...MEAN SEA LEVEL"				
Color:	Black				
Type Specification:	Zurich Condensed (5 point, Medium, Upper Case)				
Note:	The vertical datum for all maps is Mean Sea Level.				
Reference #:	203118	Name:	Horizontal Datum Note	Type:	Text
Symbol Graphic Reference:	"HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"				
Color:	Black				
Type Specification:	Zurich Condensed (5 point, Medium, Upper Case)				
Note:	The horizontal datum for all maps is the World Geodetic System 1984.				
Reference #:	200417	Name:	Ellipsoid Note (translated)	Type:	Text
Symbol Graphic Reference:	"ELLIPSOID...WORLD GEODETIC SYSTEM 1984" (translated)				
Color:	Black				
Type Specification:	Zurich Condensed (5 point, Light, Upper Case)				
Note:	The ellipsoid used for all maps is the World Geodetic System 1984.				
Reference #:	202201	Name:	Primary Map Multiple Grid Note (Translated)	Type:	Text

**Symbol Graphic Reference:** "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:** The grid system used for all maps is UTM. For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.9 of the DPS AC.

---

**Reference #:** 200419      **Name:** Projection Note (translated)      **Type:** Text  
**Symbol Graphic Reference:** "PROJECTION...TRANSVERSE MERCATOR" (translated)  
**Color:** Black  
**Type Specification:** Zurich Condensed (5 point, Light, Upper Case)  
**Note:** The projection for all maps is Transverse Mercator.

---

**Reference #:** 200420      **Name:** Vertical Datum Note (translated)      **Type:** Text  
**Symbol Graphic Reference:** "VERTICAL DATUM...MEAN SEA LEVEL" (translated)  
**Color:** Black  
**Type Specification:** Zurich Condensed (5 point, Light, Upper Case)  
**Note:** The vertical datum for all maps is Mean Sea Level.

---

**Reference #:** 200421      **Name:** Horizontal Datum Note (translated)      **Type:** Text  
**Symbol Graphic Reference:** "HORIZONTAL DATUM...[horizontalDatum]" (translated)  
**Color:** Black  
**Type Specification:** Zurich Condensed (5 point, Light, Upper Case)  
**Note:** The horizontal datum for all maps is the World Geodetic System 1984.

## Glossary

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:

Version Notes:

1:50,000: Arrangement A  
 1:100,000: Arrangement A

A glossary consists of a Title followed by one or more Glossary Entries, as needed. Refer to 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

---

**Reference #:** 201201      **Name:** Glossary Title      **Type:** Text  
**Symbol Graphic Reference:** "GLOSSARY"  
**Color:** Black  
**Type Specification:** Zurich Condensed (9 point, Bold, Upper Case)

---

**Reference #:** 201202      **Name:** Glossary Entry      **Type:** Text  
**Symbol Graphic Reference:** "[termDefinition.term]...[termDefinition.definition]"  
**Color:** Black  
**Type Specification:** Zurich Condensed (6 point, Light, Mixed Case)

## Glossary (Multiple Language)

Style Sheet References:

1:50,000: Arrangement B  
 1:100,000: Arrangement B

Version Notes:

A glossary consists of a Title followed by one or more Glossary Entries, as needed. Refer to 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

Reference #:	201201	Name:	Glossary Title	Type:	Text
Symbol Graphic Reference:			"GLOSSARY"		
Color:			Black		
Type Specification:			Zurich Condensed (9 point, Bold, Upper Case)		
Reference #:	201203	Name:	Glossary Title (translated)	Type:	Text
Symbol Graphic Reference:			"GLOSSARY" (translated)		
Color:			Black		
Type Specification:			Zurich Condensed (9 point, Medium, Upper Case)		
Reference #:	201202	Name:	Glossary Entry	Type:	Text
Symbol Graphic Reference:			"[termDefinition.term]...[termDefinition.definition]"		
Color:			Black		
Type Specification:			Zurich Condensed (6 point, Light, Mixed Case)		

Graticule - Inset

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 map sheets.
Ellipsoid	ellipsoid	The ellipsoid to be used for the map sheet.

Annotation Rules

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

Style Sheet References:

1:50,000: Arrangement A  
 1:100,000: Arrangement A

Version Notes:

For geodetic reference information, refer to 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

## Graticule - Primary Map

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 map sheets.
Ellipsoid	ellipsoid	The ellipsoid to be used for the map sheet.

### Annotation Rules

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

#### Style Sheet References:

- 1:50,000: Arrangement A
- 1:100,000: Arrangement A

#### Version Notes:

For geodetic reference information, refer to 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

DPS AC Section: 3.3.1.7.4

### Metadata Elements

Name:	Substitution Value:	Description:
Grid System	gridSystem	The grid system to be used for 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 inset map(s).
Inset Map Minor Grid Zone	insetMapMinorGridZone	The minor grid zone(s) to be shown on the 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:

- 1:50,000: Arrangement A
- 1:100,000: Arrangement A

#### Version Notes:

For geodetic reference information, refer to 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 - Primary Map

DPS AC Section: 3.3.1.5

### Metadata Elements

Name:	Substitution Value:	Description:
Grid System	gridSystem	The grid system to be used for 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 primary map.
Primary Map Minor Grid Zone	primaryMapMinorGridZone	The minor grid zone(s) to be shown on the 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:

- 1:50,000: Arrangement A
- 1:100,000: Arrangement A

#### Version Notes:

For geodetic reference information, refer to 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 DPS AC.

## Grid Reference Box

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 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:

- 1:50,000: Arrangement A
- 1:100,000: 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>Reference #:</b> 203101	<b>Name:</b> Grid Reference Box Graphic	<b>Type:</b> Graphic
<b>Symbol Graphic Reference:</b>	(none)	

**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)**

<b>Style Sheet References:</b>	<b>Version Notes:</b>
1:50,000: Arrangement B	(none)
1:100,000: Arrangement B	

**Version Rules**

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

**Components**

<b>Reference #:</b> 203102	<b>Name:</b> Grid Reference Box Graphic (Translated)	<b>Type:</b> Graphic
<b>Symbol Graphic Reference:</b>	(none)	

**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**

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 map sheet.

**Annotation Rules**

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

<b>Style Sheet References:</b>	<b>Version Notes:</b>
1:50,000: Arrangement A	(none)
1:100,000: Arrangement A	

**Components**

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



## Identification Banner - Lower

DPS AC Section: 3.1.4

### Metadata Elements

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

### Annotation Rules

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

#### Style Sheet References:

1:50,000: Arrangement A  
 1:100,000: Arrangement A

#### Version Notes:

(none)

### Components

Reference #: 200036	Name: Lower Left Identification Banner	Type: Text
Symbol Graphic Reference:	"[sheetName], [countriesShownOnSheet] [sheetNumber] [seriesNumber] EDITION [editionNumber]-[producingAgencyCode]"	
Color:	Black	
Type Specification:	Zurich Condensed (16 point, Bold, Upper Case)	

## Identification Banner - Upper

DPS AC Section: 3.1.3

### Metadata Elements

Name:	Substitution Value:	Description:
Edition Number	editionNumber	The edition number of the map sheet.
Series Number	seriesNumber	The series number identifying a map series.
Sheet Number	sheetNumber	The sheet number identifying a 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:

1:50,000: Arrangement A  
 1:100,000: Arrangement A

#### Version Notes:

(none)

### Version Rules

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

Components

Reference #: 200106	Name: Edition Label	Type: Text
Symbol Graphic Reference:	"EDITION"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	
Reference #: 200105	Name: Edition Number	Type: Text
Symbol Graphic Reference:	"[editionNumber]-[producingAgencyCode]"	
Color:	Black	
Type Specification:	Zurich Condensed (16 point, Bold, Upper Case)	
Reference #: 200104	Name: Series Label	Type: Text
Symbol Graphic Reference:	"SERIES"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	
Reference #: 200103	Name: Series Number	Type: Text
Symbol Graphic Reference:	"[seriesNumber]"	
Color:	Black	
Type Specification:	Zurich Condensed (16 point, Bold, Upper Case)	
Reference #: 200102	Name: Sheet Label	Type: Text
Symbol Graphic Reference:	"SHEET"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	
Reference #: 200101	Name: Sheet Number	Type: Text
Symbol Graphic Reference:	"[sheetNumber]"	
Color:	Black	
Type Specification:	Zurich Condensed (16 point, Bold, Upper Case)	

Upper Right Identification Banner (Multiple Language)

Style Sheet References:

1:50,000: Arrangement B  
 1:100,000: Arrangement B

Version Notes:

(none)

Version Rules

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

Components

Reference #: 200106	Name: Edition Label	Type: Text
Symbol Graphic Reference:	"EDITION"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	
Reference #: 200107	Name: Edition Label (Translated)	Type: Text
Symbol Graphic Reference:	"EDITION" (translation)	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Light, Upper Case)	
Reference #: 200105	Name: Edition Number	Type: Text
Symbol Graphic Reference:	"[editionNumber]-[producingAgencyCode]"	
Color:	Black	
Type Specification:	Zurich Condensed (16 point, Bold, Upper Case)	
Reference #: 200104	Name: Series Label	Type: Text

Symbol Graphic Reference: "SERIES"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

Reference #: 200108      Name: Series Label (Translated)      Type: Text  
 Symbol Graphic Reference: "SERIES" (translation)  
 Color: Black  
 Type Specification: Zurich Condensed (8 point, Light, Upper Case)

Reference #: 200103      Name: Series Number      Type: Text  
 Symbol Graphic Reference: "[seriesNumber]"  
 Color: Black  
 Type Specification: Zurich Condensed (16 point, Bold, Upper Case)

Reference #: 200102      Name: Sheet Label      Type: Text  
 Symbol Graphic Reference: "SHEET"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

Reference #: 200109      Name: Sheet Label (Translated)      Type: Text  
 Symbol Graphic Reference: "SHEET" (translation)  
 Color: Black  
 Type Specification: Zurich Condensed (8 point, Light, Upper Case)

Reference #: 200101      Name: Sheet Number      Type: Text  
 Symbol Graphic Reference: "[sheetNumber]"  
 Color: Black  
 Type Specification: Zurich Condensed (16 point, Bold, Upper Case)

## Inset Declination Information

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 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 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:
1:50,000: Arrangement A	(none)
1:100,000: 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

Reference #:	201601	Name:	Inset Grid Convergence Note (Single Grid)	Type:	Text
Symbol Graphic Reference:	"GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS [insetMapMajorGridConvergenceInfo]"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Reference #:	201605	Name:	Inset Grid Magnetic Note (Single Grid)	Type:	Text
Symbol Graphic Reference:	"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:	Version Notes:
1:50,000: (none)	(none)
1:100,000: (none)	

Version Rules

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

Components

Reference #:	201601	Name:	Inset Grid Convergence Note (Single Grid)	Type:	Text
Symbol Graphic Reference:	"GRID TO TRUE NORTH CONVERGENCE FOR THE CENTER OF THE INSET IS [insetMapMajorGridConvergenceInfo]"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Reference #:	201602	Name:	Inset Grid Convergence Note (Single Grid, Translated)	Type:	Text
Symbol Graphic Reference:	"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)				
Reference #:	201605	Name:	Inset Grid Magnetic Note (Single Grid)	Type:	Text
Symbol Graphic Reference:	"GRID TO MAGNETIC DECLINATION FOR [epochDate] IS [insetMapMajorGridMagneticAngleInfo] OVER THE ENTIRE INSET"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Reference #:	201606	Name:	Inset Grid Magnetic Note (Single Grid, Translated)	Type:	Text
Symbol Graphic Reference:	"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:

Version Notes:

1:50,000: (none)

(none)

1:100,000: (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

Reference #:	203112	Name:	File Preparation Note	Type:	Text
Symbol Graphic Reference:	"FILE PREPARED BY.....[producingAgencyCode] [preparationDate]"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Reference #:	201603	Name:	Inset Grid Convergence Note (Multiple Grid)	Type:	Text
Symbol Graphic Reference:	"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)				
Reference #:	203113	Name:	File Preparation Note (Translated)	Type:	Text
Symbol Graphic Reference:	"FILE PREPARED BY.....[producingAgencyCode] [preparationDate]" (translated)				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Reference #:	201607	Name:	Inset Grid Magnetic Note (Multiple Grid)	Type:	Text
Symbol Graphic Reference:	"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:

Version Notes:

1:50,000: Arrangement B

(none)

1:100,000: Arrangement B

Version Rules

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

Components

Reference #:	201603	Name:	Inset Grid Convergence Note (Multiple Grid)	Type:	Text
Symbol Graphic Reference:	"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)				
Reference #:	201604	Name:	Inset Grid Convergence Note (Multiple Grid, Translated)	Type:	Text

**Symbol Graphic Reference:** "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)

---

**Reference #:** 201607      **Name:** Inset Grid Magnetic Note (Multiple Grid)      **Type:** Text

**Symbol Graphic Reference:** "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)

---

**Reference #:** 201608      **Name:** Inset Grid Magnetic Note (Multiple Grid, Translated)      **Type:** Text

**Symbol Graphic Reference:** "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

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 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 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:	Version Notes:
1:50,000: Arrangement A	(none)
1:100,000: 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

---

**Reference #:** 201702      **Name:** Inset Grid Note (Single Grid)      **Type:** Text

**Symbol Graphic Reference:** "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:	Version Notes:
1:50,000: (none)	(none)

1:100,000: (none)

Version Rules

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

Components

Reference #:	201702	Name:	Inset Grid Note (Single Grid)	Type:	Text
Symbol Graphic Reference:	"GRID...1,000 METER UTM ZONE [insetMapMajorGridZoneDesignation]"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Reference #:	201704	Name:	Inset Grid Note (Single Grid, Translated)	Type:	Text
Symbol Graphic Reference:	"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:	Version Notes:
1:50,000: (none)	(none)
1:100,000: (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

Reference #:	202203	Name:	Inset Map Multiple Grid Note	Type:	Text
Symbol Graphic Reference:	"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 DPS AC.				

Inset Grid Note (Multiple Grid, Multiple-Language)

Style Sheet References:	Version Notes:
1:50,000: Arrangement B	(none)
1:100,000: Arrangement B	

Version Rules

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

Components

Reference #:	202203	Name:	Inset Map Multiple Grid Note	Type:	Text
Symbol Graphic Reference:	"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 DPS AC.				

Reference #: 202204	Name: Inset Map Multiple Grid Note (Translated)	Type: Text
Symbol Graphic Reference:	"GRID...1,000 METER UTM ZONE [insetMapMajorGridZoneDesignation] (BLACK NUMBERED LINES) 1,000 METER UTM ZONE [insetMapMinorGridZoneDesignation] (BLUE NUMBERED TICKS)" (translatec	
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 DPS AC.	

## JOG-A Note

DPS AC Section: 3.3.6.1.9

### Metadata Elements

Name:	Substitution Value:	Description:
Sheet Number	sheetNumber	The sheet number identifying a map sheet.
JOG-A Sheet Number	jogSheetNumber	The Joint Operations Graphic - Air (JOG-A) sheet number to which the area of the map sheet corresponds.

### Annotation Rules

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

#### Style Sheet References:

- 1:50,000: Arrangement A
- 1:100,000: Arrangement A

#### Version Notes:

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

### Components

Reference #: 202701	Name: JOG-A Note	Type: Text
Symbol Graphic Reference:	"Sheet [sheetNumber] falls within [jogSheetNumber], 1501A, 1:250,000."	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Mixed Case)	

## Latitude Equivalency Note

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 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:

- 1:50,000: Arrangement A
- 1:100,000: Arrangement A

#### Version Notes:

(none)

### Version Rules

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

### Components



Reference #: 200038	Name: Latitude Equivalency Note	Type: Text
Symbol Graphic Reference:	"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:	Version Notes:
1:50,000: Arrangement B	(none)
1:100,000: Arrangement B	

#### Version Rules

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

#### Components

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

Reference #: 202009	Name: Latitude Equivalency Note (Translated)	Type: Text
Symbol Graphic Reference:	"One second of latitude equals [latSecondEquiv]m" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Light Italic, Mixed Case)	

### Longitude Equivalency Note

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 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:	Version Notes:
1:50,000: Arrangement A	(none)
1:100,000: Arrangement A	

#### Version Rules

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

#### Components

Reference #: 200039	Name: Longitude Equivalency Note	Type: Text
Symbol Graphic Reference:	"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:	Version Notes:
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1:50,000: Arrangement B (none)

1:100,000: Arrangement B

### Version Rules

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

### Components

<b>Reference #:</b> 200039	<b>Name:</b> Longitude Equivalency Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"One second of longitude equals [lonSecondEquiv]m"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Light Italic, Mixed Case)	
<b>Reference #:</b> 202010	<b>Name:</b> Longitude Equivalency Note (Translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"One second of longitude equals [lonSecondEquiv]m" (translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Light Italic, Mixed Case)	

## Map Series Name and Scale

DPS AC Section: 3.1.2

### Metadata Elements

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

### Annotation Rules

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

Style Sheet References:	Version Notes:
1:50,000: Arrangement A	(none)
1:100,000: Arrangement A	

### Components

<b>Reference #:</b> 203103	<b>Name:</b> Series Name and Scale Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"[seriesName] MGCP TOPOGRAPHIC MAP 1:[displayScale.equivalentScale.denominator]"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (16 point, Bold, Upper Case)	

## Map Sheet Name

DPS AC Section: 3.1.1

### Metadata Elements

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

### Annotation Rules

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

Style Sheet References:	Version Notes:
1:50,000: Arrangement A	(none)

1:100,000: Arrangement A

### Components

Reference #:	200001	Name:	Sheet Name Note	Type:	Text
Symbol Graphic Reference:			"[sheetName]"		
Color:			Black		
Type Specification:			Zurich Condensed (24 point, Bold, Upper Case)		

## Miscellaneous Notes

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 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:

1:50,000: Arrangement A

1:100,000: Arrangement A

#### Version Notes:

The Miscellaneous Notes Box consists of a series of standard notes and less common notes, as needed. Refer to 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

Reference #:	201301	Name:	Miscellaneous Notes Box Title	Type:	Text
Symbol Graphic Reference:			"NOTES"		
Color:			Black		
Type Specification:			Zurich Condensed (9 point, Bold, Upper Case)		

Reference #:	201305	Name:	Standard Notes	Type:	Text
Symbol Graphic Reference:			"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."		
Color:			Black		
Type Specification:			Zurich Condensed (6 point, Medium, Upper Case)		

Reference #:	203104	Name:	Less Common Note	Type:	Text
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Symbol Graphic Reference: "[noteText[...]]"  
 Color: Black  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)  
 Note: If the "POWER/COMMUNICATION LINE 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:

1:50,000: Arrangement B  
 1:100,000: Arrangement B

Version Notes:

The Miscellaneous Notes Box consists of a series of standard notes and less common notes, as needed. Refer to 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**

Reference #: 201301	Name: Miscellaneous Notes Box Title	Type: Text
Symbol Graphic Reference:	"NOTES"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	
Reference #: 201303	Name: Miscellaneous Notes Box Title (Translated)	Type: Text
Symbol Graphic Reference:	"NOTES" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	
Reference #: 201305	Name: Standard Notes	Type: Text
Symbol Graphic Reference:	"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."	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Reference #: 201306	Name: Standard Notes (Translated)	Type: Text

**Symbol Graphic Reference:** "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." (translated)

**Color:** Black

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

<b>Reference #:</b> 203104	<b>Name:</b> Less Common Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"[noteText[...]]"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)	
<b>Note:</b> If the "POWER/COMMUNICATION LINE PYLONS INDICATED BY THE VERTICAL OBSTRUCTION SYMBOL..." note is present, it shall be portrayed in Blue072 (aero blue) color.		

<b>Reference #:</b> 203105	<b>Name:</b> Less Common Note (Translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"[noteText[...]]" (translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Light, Upper Case)	
<b>Note:</b> If the "POWER/COMMUNICATION LINE PYLONS INDICATED BY THE VERTICAL OBSTRUCTION SYMBOL..." note is present, it shall be portrayed in Blue072 (aero blue) color.		

## Names Disclaimer Note

DPS AC Section: 3.4.1.2

### Metadata Elements

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

### Annotation Rules

Reference #:	Description:	Criteria:
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:	Version Notes:
1:50,000: (none)	When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the type specification and color of other notes there.
1:100,000: (none)	

### Version Rules

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

### Components

<b>Reference #:</b> 200027	<b>Name:</b> Names Disclaimer Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</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:

Version Notes:

1:50,000: (none)

When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the type specification and color of other notes there.

1:100,000: (none)

Version Rules

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

Components

Reference #:	Name:	Type:
200027	Names Disclaimer Note	Text
Symbol Graphic Reference:	"GEOGRAPHIC NAMES OR THEIR SPELLING DO NOT NECESSARILY REFLECT RECOGNITION OF THE POLITICAL STATUS OF AN AREA BY THE UNITED STATES GOVERNMENT."	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

Reference #:	Name:	Type:
202007	Names Disclaimer Note (Translated)	Text
Symbol Graphic Reference:	"GEOGRAPHIC NAMES OR THEIR SPELLING DO NOT NECESSARILY REFLECT RECOGNITION OF THE POLITICAL STATUS OF AN AREA BY THE UNITED STATES GOVERNMENT." (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Light, Upper Case)	

Producer Seal

DPS AC Section: 3.1.6

Metadata Elements

Name:	Substitution Value:	Description:
Producing Agency	producingAgency	The agency responsible for producing the map sheet.

Annotation Rules

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

Style Sheet References:

Version Notes:

1:50,000: Arrangement A

(none)

1:100,000: Arrangement A

Components

Reference #:	Name:	Type:
200007	Producer Seal Graphic	Graphic
Symbol Graphic Reference:	(Producer Seal graphic filename)	

## Publication Note and Credit Listings

DPS AC Section: 3.1.7.1

### Metadata Elements

Name:	Substitution Value:	Description:
Producing Agency	producingAgency	The agency responsible for producing the map sheet.
Data Producing Agency	dataproducingAgency	The agency responsible for producing the MGCP data used to make the map sheet.
Sheet Production Date	productionDate	The production date (YYYY) 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

### Publication Note (Single Language)

#### Style Sheet References:

1:50,000: Arrangement A  
 1:100,000: Arrangement A

#### Version Notes:

(none)

### Version Rules

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

### Components

Reference #: 200008	Name: Publication Note	Type: Text
Symbol Graphic Reference:	"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:

1:50,000: Arrangement B  
 1:100,000: Arrangement B

#### Version Notes:

(none)

### Version Rules

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

### Components

Reference #: 200008	Name: Publication Note	Type: Text
Symbol Graphic Reference:	"Prepared and published in [productionDate] by [producingAgency]"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Mixed Case)	
Reference #: 202001	Name: Publication Note (Translated)	Type: Text
Symbol Graphic Reference:	"Prepared and published in [productionDate] by [producingAgency]" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Light, Mixed Case)	

## Restricted Dissemination/LIMITED DISTRIBUTION Note

DPS AC Section: 3.2.1.2

### Metadata Elements

<b>Name:</b> Limited Distribution Note Required	<b>Substitution Value:</b> sheetLimDisNoteRequired	<b>Description:</b> Whether or not a limited distribution note is required for this 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 map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

### Annotation Rules

<b>Reference #:</b> AC-0025	<b>Description:</b> Limited Distribution	<b>Criteria:</b> [sheetLimDisNoteRequired] = TRUE
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## Restricted Dissemination Marking (No Special Handling, Single Language)

<b>Style Sheet References:</b>  1:50,000: Arrangement A  1:100,000: Arrangement A	<b>Version Notes:</b>  (none)
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### Version Rules

<b>Reference #:</b> AC-0023	<b>Description:</b> No Special Handling	<b>Criteria:</b> [sheetSpecialHandlingInfo] Is Null
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

<b>Reference #:</b> 200311	<b>Name:</b> Limited Distribution Heading	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"LIMITED DISTRIBUTION"	
<b>Color:</b>	Dk-Brown1815	
<b>Type Specification:</b>	Zurich Condensed (14 point, Bold, Upper Case)	
<b>Reference #:</b> 200312	<b>Name:</b> Limited Distribution Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"[limDisNoteText]"	
<b>Color:</b>	Dk-Brown1815	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)	

## Restricted Dissemination Marking (Special Handling, Single Language)

<b>Style Sheet References:</b>  1:50,000: (none)  1:100,000: (none)	<b>Version Notes:</b>  (none)
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### Version Rules

<b>Reference #:</b> AC-0033	<b>Description:</b> Special Handling	<b>Criteria:</b> [sheetSpecialHandlingInfo] Is Not Null
AC-0002	Single-language	[displayLanguage.count] = 1

### Components

<b>Reference #:</b> 200311	<b>Name:</b> Limited Distribution Heading	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"LIMITED DISTRIBUTION"	
<b>Color:</b>	Dk-Brown1815	
<b>Type Specification:</b>	Zurich Condensed (14 point, Bold, Upper Case)	
<b>Reference #:</b> 200312	<b>Name:</b> Limited Distribution Note	<b>Type:</b> Text



Symbol Graphic Reference: "[limDisNoteText]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

Reference #: 200212      Name: Caveat/Special Handling Note      Type: Text  
 Symbol Graphic Reference: "[sheetSpecialHandlingInfo]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (10 point, Bold, Upper Case)

### Restricted Dissemination Marking (Multiple Language)

Style Sheet References:

Version Notes:

1:50,000: Arrangement B (none)  
 1:100,000: Arrangement B

#### Version Rules

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

#### Components

Reference #: 200311      Name: Limited Distribution Heading      Type: Text  
 Symbol Graphic Reference: "LIMITED DISTRIBUTION"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (14 point, Bold, Upper Case)

Reference #: 200313      Name: Limited Distribution Heading (translated)      Type: Text  
 Symbol Graphic Reference: "LIMITED DISTRIBUTION" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (14 point, Medium, Upper Case)

Reference #: 200312      Name: Limited Distribution Note      Type: Text  
 Symbol Graphic Reference: "[limDisNoteText]"  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)

Reference #: 200314      Name: Limited Distribution Note (translated)      Type: Text  
 Symbol Graphic Reference: "[limDisNoteText]" (translated)  
 Color: Dk-Brown1815  
 Type Specification: Zurich Condensed (6 point, Light, Upper Case)

### Road and Railway Objectives

DPS AC Section: 3.9

#### Metadata Elements

Name: Data Content      Substitution Value: dataContent      Description: The data content represented on the map sheet.

#### Annotation Rules

Reference #: AC-0018      Description: Lines of transportation present      Criteria: ([dataContent] contains transportation lines.)

Style Sheet References:

Version Notes:

1:50,000: Arrangement A      Refer to DPS AC section 3.9 and Annex B.7 for detailed instructions on the display of distant road/railway objectives.  
 1:100,000: Arrangement A

## Scale Note

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:

1:50,000: Arrangement A  
 1:100,000: Arrangement A

Version Notes:

(none)

### Version Rules

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

### Components

Reference #: 200018	Name: Scale Note	Type: Text
Symbol Graphic Reference:	"Scale 1:[displayScale.equivalentScale.denominator]"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Mixed Case)	

## Scale Note (Multiple Language)

Style Sheet References:

1:50,000: Arrangement B  
 1:100,000: Arrangement B

Version Notes:

(none)

### Version Rules

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

### Components

Reference #: 200018	Name: Scale Note	Type: Text
Symbol Graphic Reference:	"Scale 1:[displayScale.equivalentScale.denominator]"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Mixed Case)	
Reference #: 202004	Name: Scale Note (Translated)	Type: Text
Symbol Graphic Reference:	"Scale 1:[displayScale.equivalentScale.denominator]" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Mixed Case)	

## Scale Verification Note

DPS AC Section: 3.3.2.3

### Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
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

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

## Scale Verification Note (1:50K, Single Language)

#### Style Sheet References:

1:50,000: Arrangement A  
1:100,000: (none)

#### Version Notes:

(none)

### Version Rules

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

### Components

<b>Reference #:</b> 202501	<b>Name:</b> Scale Verification Note 1:50K	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"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)."	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)	

## Scale Verification Note (1:50K, Multiple Language)

#### Style Sheet References:

1:50,000: Arrangement B  
1:100,000: (none)

#### Version Notes:

(none)

### Version Rules

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

### Components

<b>Reference #:</b> 202501	<b>Name:</b> Scale Verification Note 1:50K	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"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)."	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)	
<b>Reference #:</b> 202502	<b>Name:</b> Scale Verification Note 1:50K (Translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"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)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Light, Upper Case)	

## Scale Verification Note (1:100K, Single Language)

Style Sheet References:

Version Notes:

1:50,000: (none)

(none)

1:100,000: Arrangement A

Version Rules

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

Components

Reference #:	Name:	Type:
202503	Scale Verification Note 1:100K	Text
<b>Symbol Graphic Reference:</b>	"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)."	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)	

Scale Verification Note (1:100K, Multiple Language)

Style Sheet References:

Version Notes:

1:50,000: (none)

(none)

1:100,000: Arrangement B

Version Rules

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

Components

Reference #:	Name:	Type:
202503	Scale Verification Note 1:100K	Text
<b>Symbol Graphic Reference:</b>	"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)."	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)	
202504	Scale Verification Note 1:100K (Translated)	Text
<b>Symbol Graphic Reference:</b>	"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)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Light, Upper Case)	

Slope Guide

DPS AC Section: 3.3.5

Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the 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 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:

1:50,000: Arrangement A

(none)

1:100,000: 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

Reference #:	202801	Name:	Slope Guide Title	Type:	Text
Symbol Graphic Reference:			"SLOPE GUIDE"		
Color:			Black		
Type Specification:			Zurich Condensed (9 point, Bold, Upper Case)		
Reference #:	202803	Name:	Slope Guide Diagram (5/10 m)	Type:	Graphic
Symbol Graphic Reference:			(none)		
Note:	Refer to DPS AC, Appendix B.8, for detailed instructions.				

### Slope Guide Diagram, 5/10 Meter Contours (Multiple Language)

Style Sheet References:

Version Notes:

1:50,000: (none)

(none)

1:100,000: (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

Reference #:	202801	Name:	Slope Guide Title	Type:	Text
Symbol Graphic Reference:			"SLOPE GUIDE"		
Color:			Black		
Type Specification:			Zurich Condensed (9 point, Bold, Upper Case)		
Reference #:	202802	Name:	Slope Guide Title (Translated)	Type:	Text
Symbol Graphic Reference:			"SLOPE GUIDE" (translated)		
Color:			Black		
Type Specification:			Zurich Condensed (9 point, Medium, Upper Case)		
Reference #:	202803	Name:	Slope Guide Diagram (5/10 m)	Type:	Graphic
Symbol Graphic Reference:			(none)		
Note:	Refer to DPS AC, Appendix B.8, for detailed instructions.				

### Slope Guide Diagram, 10/20 Meter Contours (Single Language)

Style Sheet References:

Version Notes:

1:50,000: (none)

(none)

1:100,000: (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

Reference #: 202801	Name: Slope Guide Title	Type: Text
Symbol Graphic Reference:	"SLOPE GUIDE"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	
Reference #: 202804	Name: Slope Guide Diagram (10/20 m)	Type: Graphic
Symbol Graphic Reference:	(none)	
Note:	Refer to DPS AC, Appendix B.8, for detailed instructions.	

Slope Guide Diagram, 10/20 Meter Contours (Multiple Language)

Style Sheet References:	Version Notes:
1:50,000: (none)	(none)
1:100,000: (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

Reference #: 202801	Name: Slope Guide Title	Type: Text
Symbol Graphic Reference:	"SLOPE GUIDE"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	
Reference #: 202802	Name: Slope Guide Title (Translated)	Type: Text
Symbol Graphic Reference:	"SLOPE GUIDE" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	
Reference #: 202804	Name: Slope Guide Diagram (10/20 m)	Type: Graphic
Symbol Graphic Reference:	(none)	
Note:	Refer to DPS AC, Appendix B.8, for detailed instructions.	

Slope Guide Diagram, 20/40 Meter Contours (Single Language)

Style Sheet References:	Version Notes:
1:50,000: (none)	(none)
1:100,000: (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))

Components

Reference #: 202801	Name: Slope Guide Title	Type: Text
Symbol Graphic Reference:	"SLOPE GUIDE"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Reference #: 202805	Name: Slope Guide Diagram (20/40 m)	Type: Graphic
Symbol Graphic Reference:	(none)	
Note:	Refer to DPS AC, Appendix B.8, for detailed instructions.	

Slope Guide Diagram, 20/40 Meter Contours (Multiple Language)

Style Sheet References:	Version Notes:
1:50,000: (none)	(none)
1:100,000: (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

Reference #: 202801	Name: Slope Guide Title	Type: Text
Symbol Graphic Reference:	"SLOPE GUIDE"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Reference #: 202802	Name: Slope Guide Title (Translated)	Type: Text
Symbol Graphic Reference:	"SLOPE GUIDE" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

Reference #: 202805	Name: Slope Guide Diagram (20/40 m)	Type: Graphic
Symbol Graphic Reference:	(none)	
Note:	Refer to DPS AC, Appendix B.8, for detailed instructions.	

Slope Guide Diagram, 40/80 Meter Contours (Single Language)

Style Sheet References:	Version Notes:
1:50,000: (none)	(none)
1:100,000: (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

Reference #: 202801	Name: Slope Guide Title	Type: Text
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Symbol Graphic Reference: "SLOPE GUIDE"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Bold, Upper Case)

Reference #: 202806      Name: Slope Guide Diagram (40/80 m)      Type: Graphic  
 Symbol Graphic Reference: (none)  
 Note: Refer to DPS AC, Appendix B.8, for detailed instructions.

### Slope Guide Diagram, 40/80 Meter Contours (Multiple Language)

Style Sheet References:      Version Notes:  
 1:50,000: (none)      (none)  
 1:100,000: (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

Reference #: 202801      Name: Slope Guide Title      Type: Text  
 Symbol Graphic Reference: "SLOPE GUIDE"  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Bold, Upper Case)

Reference #: 202802      Name: Slope Guide Title (Translated)      Type: Text  
 Symbol Graphic Reference: "SLOPE GUIDE" (translated)  
 Color: Black  
 Type Specification: Zurich Condensed (9 point, Medium, Upper Case)

Reference #: 202806      Name: Slope Guide Diagram (40/80 m)      Type: Graphic  
 Symbol Graphic Reference: (none)  
 Note: Refer to DPS AC, Appendix B.8, for detailed instructions.

### Slope Guide Flat Area Note (Single Language)

Style Sheet References:      Version Notes:  
 1:50,000: Arrangement A      When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the  
 1:100,000: Arrangement A      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

Reference #: 200022      Name: Slope Guide Flat Area Note      Type: Text  
 Symbol Graphic Reference: "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:      Version Notes:



1:50,000: (none)

When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the type specification and color of other notes there.

1:100,000: (none)

### 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

<b>Reference #:</b> 200022	<b>Name:</b> Slope Guide Flat Area Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"SLOPES ON THIS MAP ARE LESS THAN 5%."	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Medium, Upper Case)	
<b>Reference #:</b> 202006	<b>Name:</b> Slope Guide Flat Area Note (Translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"SLOPES ON THIS MAP ARE LESS THAN 5%." (translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (6 point, Light, Upper Case)	

## Symbol Legend

DPS AC Section: 3.5

### Metadata Elements

Name:	Substitution Value:	Description:
Data Content - Maximum Elevation	dataContent.maxElevation	The maximum elevation value over 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-0001	Always Include	TRUE

## Symbol Legend (Single Language)

Style Sheet References:	Version Notes:
1:50,000: Arrangement A	(none)
1:100,000: Arrangement A	

### Version Rules

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

### Components

<b>Reference #:</b> 200011	<b>Name:</b> Legend Title	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"LEGEND"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (9 point, Bold, Upper Case)	
<b>Reference #:</b> 200012	<b>Name:</b> Legend Graphic	<b>Type:</b> Graphic
<b>Note:</b> Refer to DPS AC section 3.5 and Annex B.5 for detailed instructions and specifications on the construction of the legend.		

## Symbol Legend (Multiple Language)

Style Sheet References:	Version Notes:
1:50,000: Arrangement B	(none)
1:100,000: Arrangement B	

Version Rules

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

Components

<b>Reference #:</b> 200011	<b>Name:</b> Legend Title	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"LEGEND"	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (9 point, Bold, Upper Case)	
<b>Reference #:</b> 200013	<b>Name:</b> Legend Title (Translated)	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"LEGEND" (Translated)	
<b>Color:</b>	Black	
<b>Type Specification:</b>	Zurich Condensed (9 point, Medium, Upper Case)	
<b>Reference #:</b> 200012	<b>Name:</b> Legend Graphic	<b>Type:</b> Graphic

**Note:** Refer to DPS AC section 3.5 and Annex B.5 for detailed instructions and specifications on the construction of the legend.

Unit of Elevation Note

DPS AC Section: 3.3.3

Metadata Elements

<b>Name:</b>	<b>Substitution Value:</b>	<b>Description:</b>
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

Unit of Elevation Note (Single Language)

<b>Style Sheet References:</b>	<b>Version Notes:</b>
1:50,000: Arrangement A	(none)
1:100,000: Arrangement A	

Version Rules

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

Components

<b>Reference #:</b> 200020	<b>Name:</b> Unit of Elevation Note	<b>Type:</b> Text
<b>Symbol Graphic Reference:</b>	"ELEVATIONS IN METERS"	
<b>Color:</b>	Dk-Brown1815	
<b>Type Specification:</b>	Zurich Condensed (10 point, Medium, Upper Case)	

Unit of Elevation Note (Multiple Language)

<b>Style Sheet References:</b>	<b>Version Notes:</b>
1:50,000: Arrangement B	(none)
1:100,000: Arrangement B	

Version Rules

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

Components

Reference #: 200020	Name: Unit of Elevation Note	Type: Text
Symbol Graphic Reference:	"ELEVATIONS IN METERS"	
Color:	Dk-Brown1815	
Type Specification:	Zurich Condensed (10 point, Medium, Upper Case)	

Reference #: 202005	Name: Unit of Elevation Note (Translated)	Type: Text
Symbol Graphic Reference:	"ELEVATIONS IN METERS" (translated)	
Color:	Dk-Brown1815	
Type Specification:	Zurich Condensed (10 point, Light, Upper Case)	

## Users Note

DPS AC Section: 3.1.7.2

### Metadata Elements

Name:	Substitution Value:	Description:
Point of Contact	pointOfContact	The point of contact for the map sheet.
Users Note Text	usersNoteText	The text of the Users Note as required by supplementary instructions.

### Annotation Rules

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

#### Style Sheet References:

1:50,000: Arrangement A  
 1:100,000: Arrangement A

#### Version Notes:

(none)

### Components

Reference #: 200009	Name: Users Note	Type: Text
Symbol Graphic Reference:	"[usersNoteText]"	
Color:	Black	
Type Specification:	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 two style sheets (B.1 & B.2), and subsections (B.5 -B.9) which provide more detailed versioning and information related to certain annotation elements.

The following sections are included in Annex B:

- B.1 – Defence Topographic Map Style Sheet Arrangement “A” (see included DTM50\_DPS\_AC\_Annex B.1.pdf)
- B.2 – Defence Topographic Map Style Sheet, Arrangement “B” (see included DTM50\_DPS\_AC\_Annex B.2.pdf)
- B.3 – *Intentionally excluded*
- B.4 – *Intentionally excluded*
- B.5 – Master Legend
- B.6 – Grid Declination Diagrams
- B.7 – Margin Symbol Detailed Drawing Instructions
- B.8 – Slope Guides
- B.9 – Grid Zone Junctions

# Master Legend

**LEGEND**

**POPULATED PLACES**

Built-up areas: Dense  
Sparse or moderate  
Not intact

Shanty Town; Settlement  
Buildings

**ROADS**

All-weather, hard surface:  
Divided highway: Wide separation  
Narrow separation  
Not intact, divided  
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, not divided  
Cart track; Trail  
Route markers: International; National  
National motorway; Local

**RAILWAYS**

Standard/Broad gauge  
>= 1.44m (4' 8.5")  
Narrow < 1.44m (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

Cemetery: Christian; Islam; Judaism  
Unknown; Buddhism; Shinto  
Tower: Communication;  
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  
UNESCO World Heritage Site  
Dam: Hard; Loose  
Lock; Sluice gate  
Tunnel: Road; Railway  
Bridge:  
Pedestrian; Road; Railway  
Culvert: Road; Railway  
Wall; Fence  
Pipeline:  
Surface  
Underground  
Elevated  
Sports ground; Vehicle lot

**VERTICAL OBSTRUCTIONS (VO) (>=46m)**

Elevation of obstruction top above sea level  
430  
Height of obstruction top above ground level  
(70)

Vertical Obstruction with Helipad  
Wind turbine VO: Single; Multiple  
VO Cable/Cableway

**CABLES**

Power transmission line; Pylon VO  
Communication/power distribution line

**AERONAUTICAL FEATURES**

Water aerodrome  
Apron; Aerodrome beacon  
Taxiway  
Intact runway; Stopway  
Not intact runway  
Helipad: Non-hospital; Hospital

**HYDROGRAPHIC FEATURES** Perennial Intermittent/Dry

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; Other  
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 grassland  
Orchard; Cropland; Other;  
Permanent irrigation  
Row of trees; Hedgerow  
Tree: Deciduous; Evergreen; Other

**HYSOGRAPHIC FEATURES**

Spot elevation:  
Highest; Normal; Water  
Survey point:  
Geodetic; Benchmark  
Cave mouth; Mountain pass  
Rock formation; Steep terrain face  
Cut line; Fill; Levee/Dyke  
Distorted surface;  
Sand; Gravel/Moraine

3.5.1 → Additional legend entries: Red clarifying Text (see B.5 -9): Note: Text with gray tinted backgrounds indicate variable margin data.

Corresponding legend section. → **RAILWAYS**

Intact Not intact

Railway in road  
Railway carline

**HYDROGRAPHIC FEATURES**

Rapids  
Geothermal outlet

**ARID REGION FEATURES**

**ARID REGION FEATURES**

Sand dunes:  
Crescent; Dome; Linear  
Ripple; Star; Transverse  
Oasis; Sabkha

**CULTURAL FEATURES**

Cairn; Camp/Campsite  
Dragon's teeth  
Geophysical prospecting grid  
Peat cuttings  
Swimming pool  
Protection shed

**FROZEN REGION FEATURES**

**FROZEN REGION FEATURES**

Glacier; Snow/Ice field  
Ice peak; Ice cliff  
Spot elevation (snow/ice):  
Highest; Normal

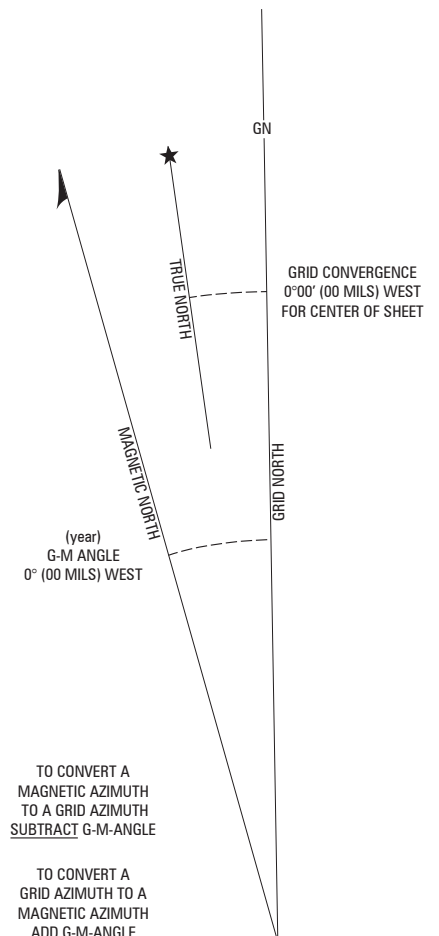
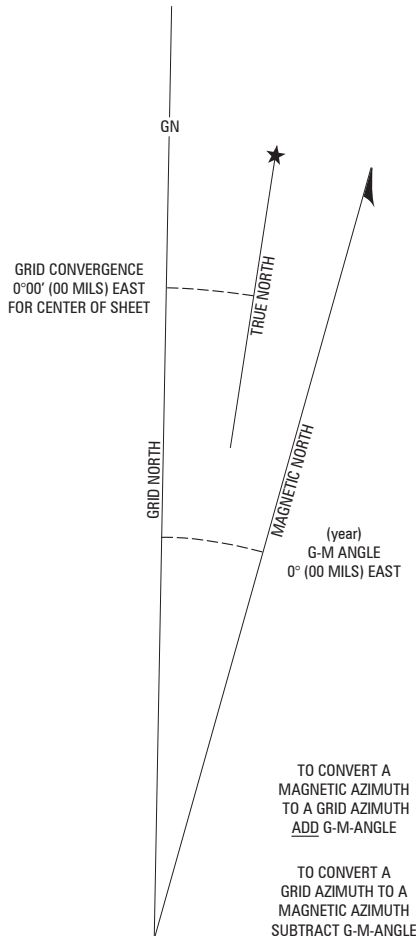
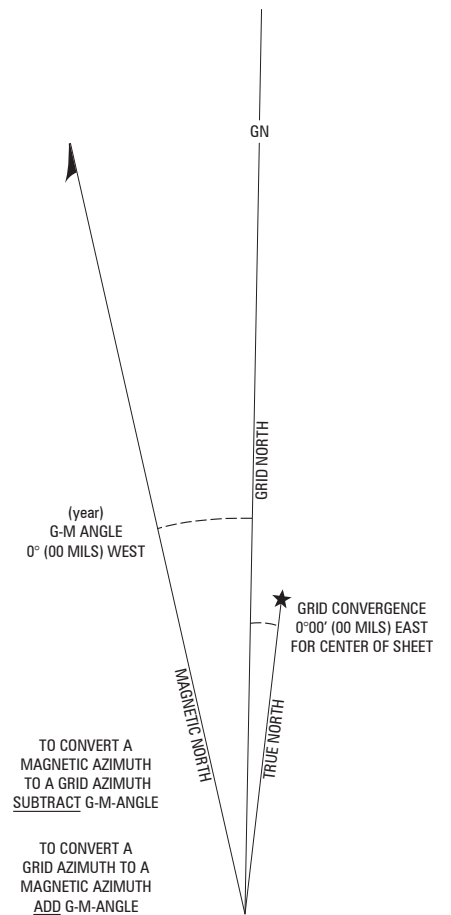
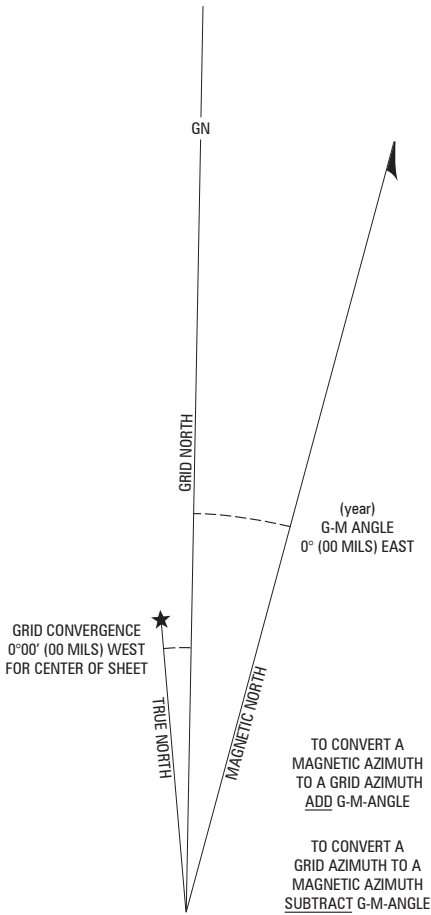
Note: Individual symbols may be added to a legend as needed. The additional legend entries are examples of some of the additional features that may be included that are not required in a standard legend. Inclusion of features may be due to their prominence, importance, uniqueness, or scarcity. Features should be placed into the appropriate legend feature section. Added legend entries should generally be added at the end of their appropriate legend feature section.

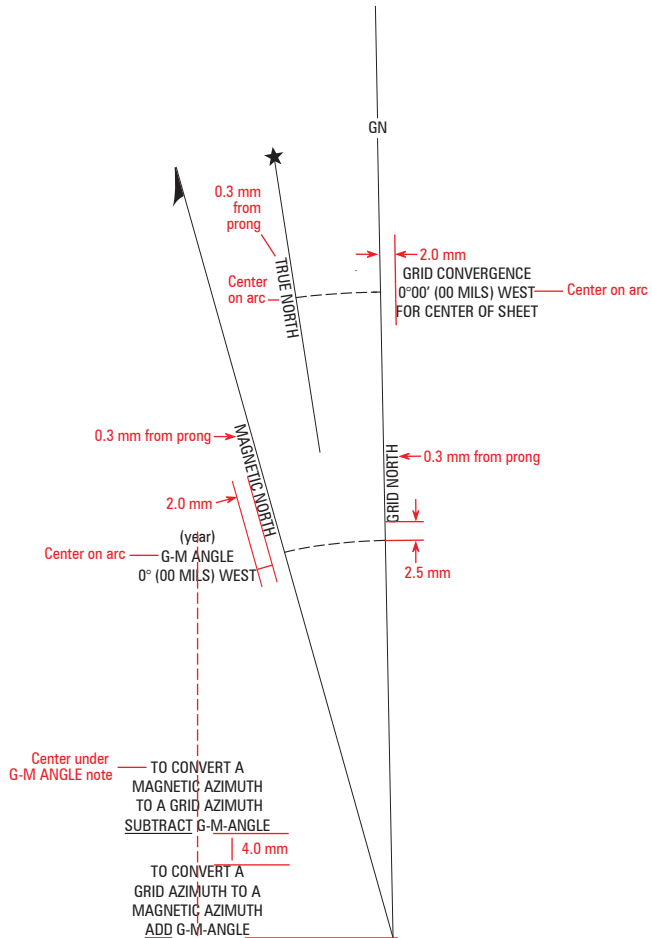
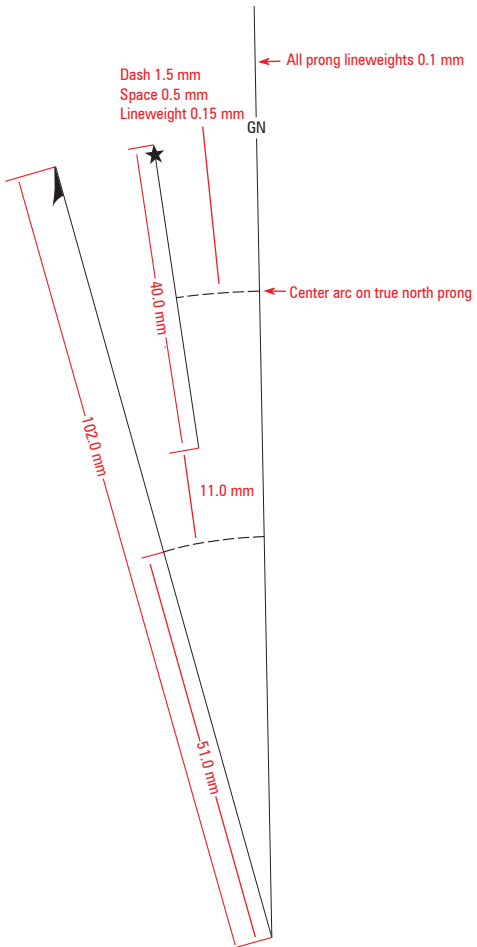
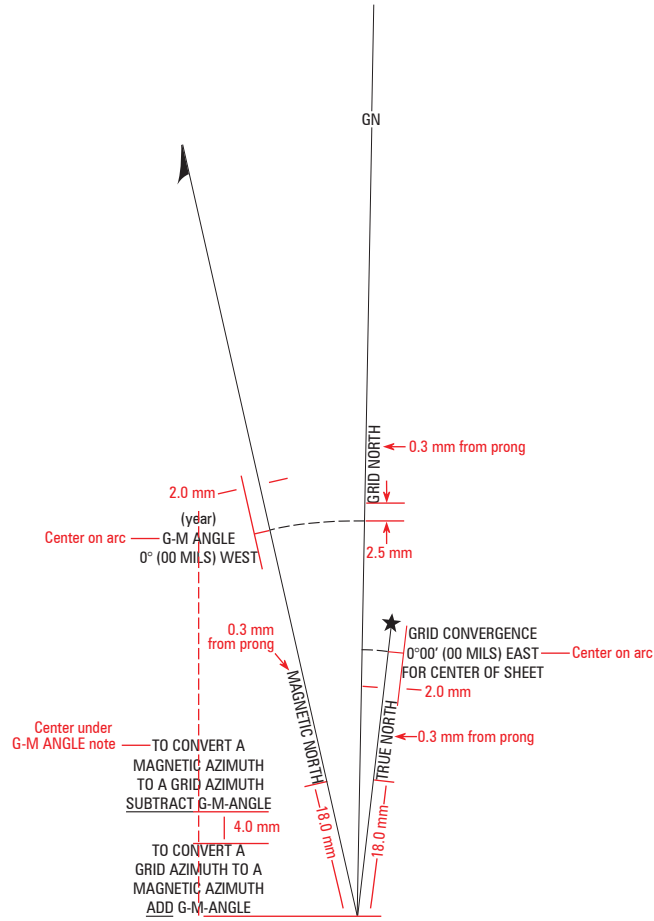
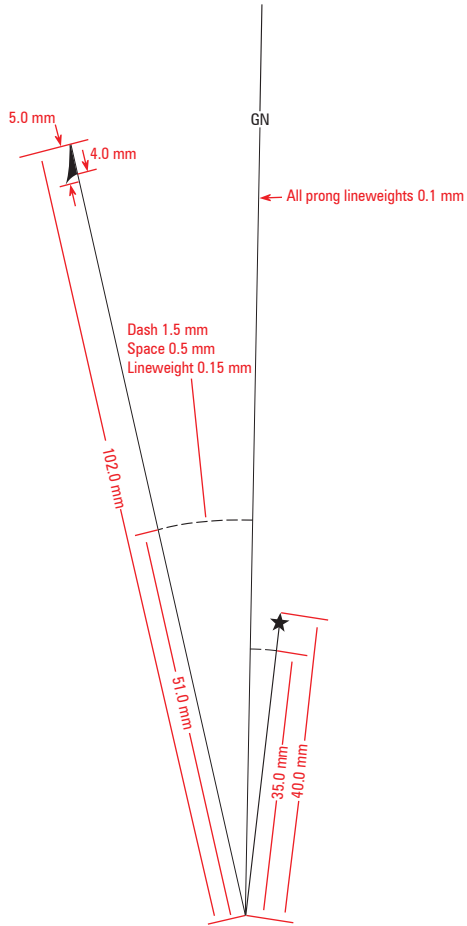
## B.6 - Grid Declination Diagrams

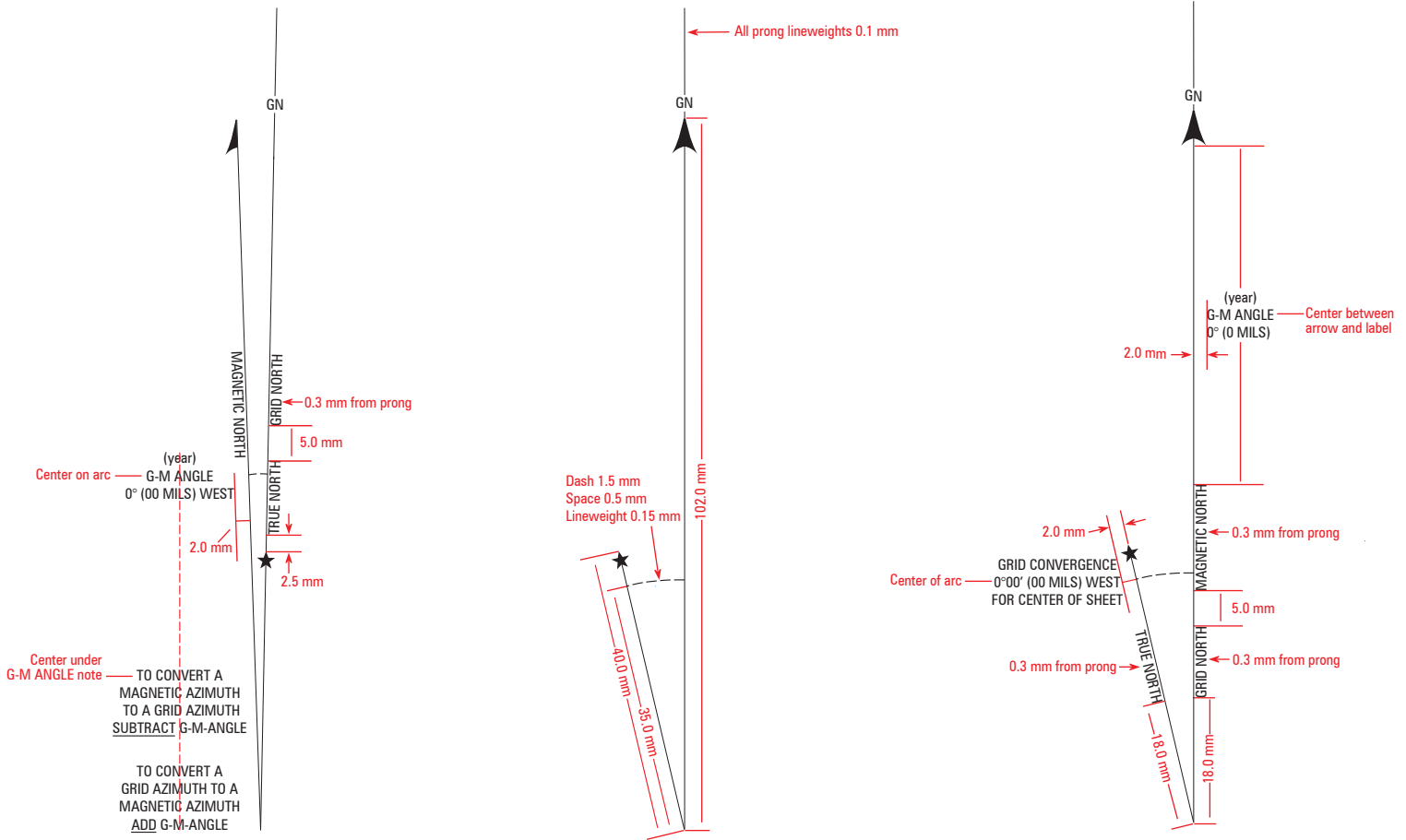
If the angles between Grid North and Magnetic North are less than 3 degrees, they shall be plotted as 3 degrees. For angles greater than 3 degrees, they shall be plotted as called for in the declination data furnished.

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.

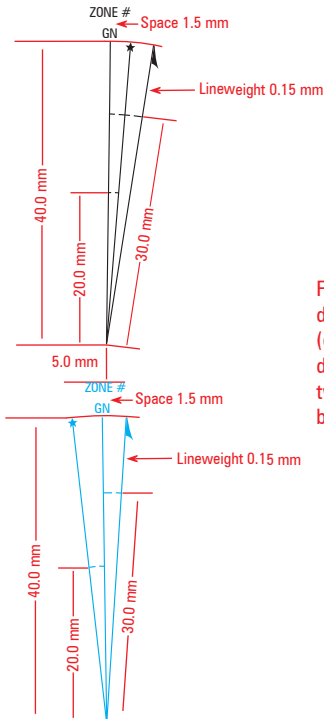
The Grid North prong is an extension of an easting (vertical) grid line; the extension is a continuous line which stops at the central point near the bottom work limits of the sheet. The prong is blocked out a distance of 0.5mm from the letters "GN" and from the grid value near the neatline.







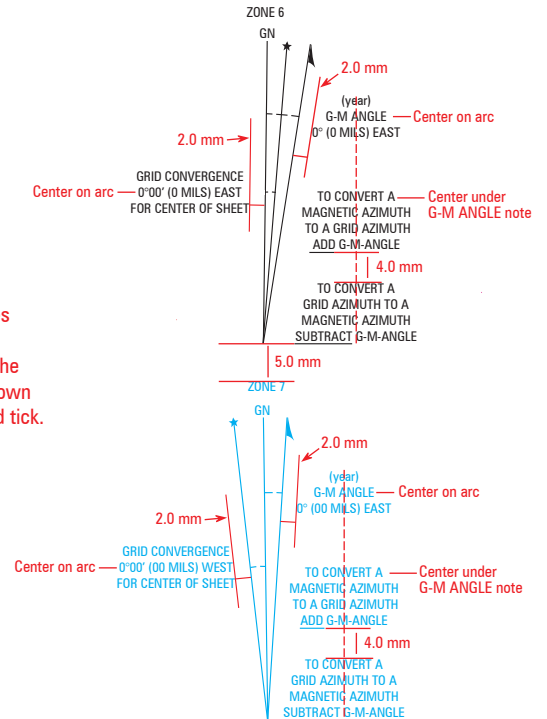
For all diagrams, the Grid North prong is aligned with the easting (vertical) grid lines or grid ticks of the grid to which it pertains.



**MAJOR**  
Print same color as grid values

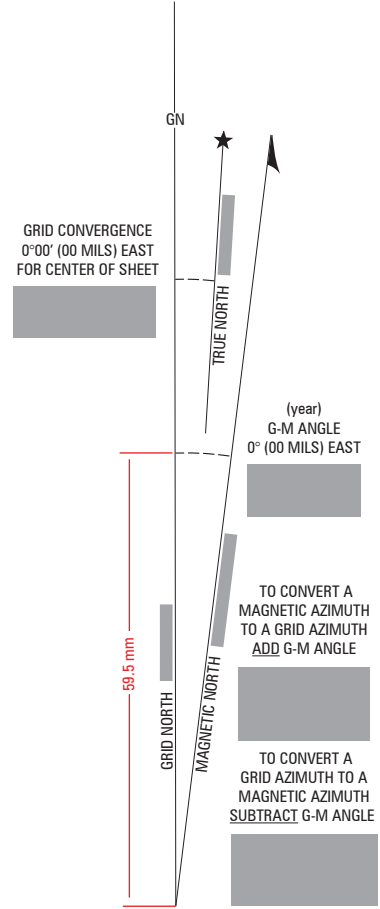
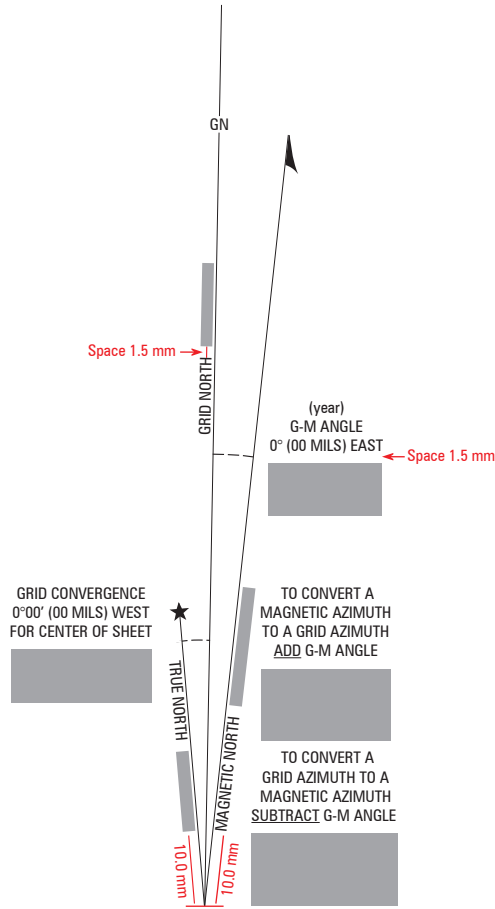
For the small declination diagrams only, the minimum drawn angle between any two prongs is three degrees (even if the actual degree declination is one or two degrees) with relative symmetry maintained, unless the two prongs overlap. No connection (extension) is shown between the Grid North prong and any grid line or grid tick.

**OVERLAPPING**  
Print same color as grid values

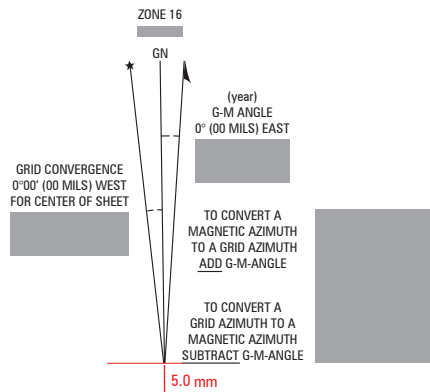




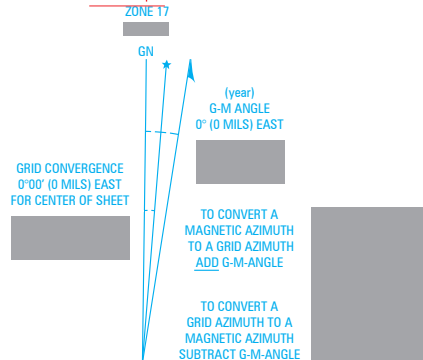
When requirements exist for multilingual treatment of marginal data, items accompanied by a dark gray tint are translated.



**MAJOR**  
Print same color as grid values



**OVERLAPPING**  
Print same color as grid values



Note example when approaching or within the magnetic blackout zone:

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### **MAGNETIC NOTE**

This location is either approaching or within the magnetic blackout zone (BoZ) defined by the World Magnetic Model (WMM) in military specification MIL-PRF-89500B.

Compass accuracy is increasingly unreliable approaching the BoZ, where declination errors exceed 1 degree; and highly degraded within the BoZ, where declination errors of up to 180 degrees will occur.

The large declination errors are a result of weak horizontal magnetic intensity and proximity to the magnetic pole.

Box: 0.60 mm lineweight, Blue 072

Box height: 40.5 mm

Box width: 54.7 mm

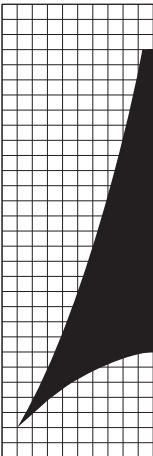
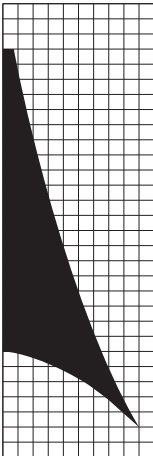
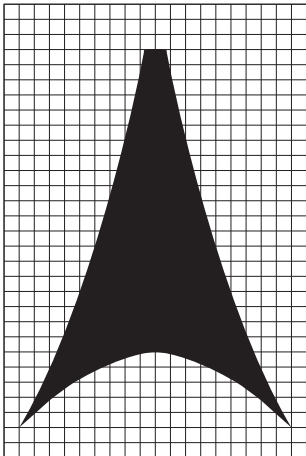
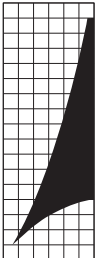
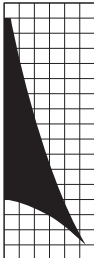
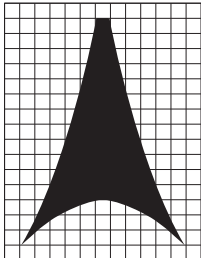
Note header: 12 pt, bold, upper case, Blue 072, centered

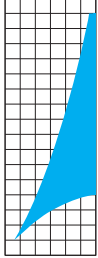
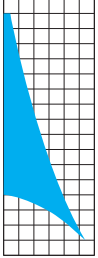
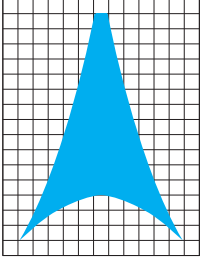
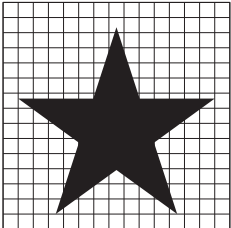

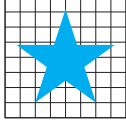

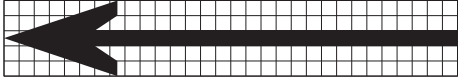
Note body: 8 pt, regular, mixed case, Blue 072, centered

The magnetic note should be present within the left margin of the chart. The note is present on all charts within the approach area or magnetic blackout zone. Refer to the World Magnetic Model (WMM) shapefile and guidance in military specification MIL-PRF-89500B.

# B.7 - Margin Symbol Detailed Drawing Instructions

All symbols have been enlarged at a scale of ten times (10x) portrayal in addition to their true scale portrayal. Grid squares represent 0.2mm x 0.2mm spacing.

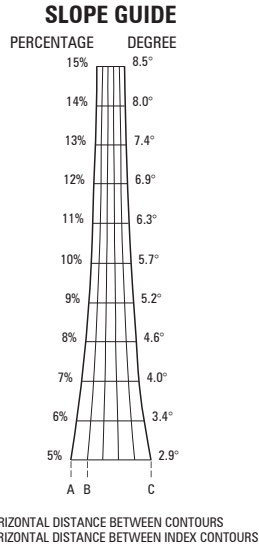
<p><b>Large Left Arrow - Black</b></p>  <p>Overall height: 5.0 mm Overall width: 1.8 mm</p>	<p><b>Large Right Arrow - Black</b></p>  <p>Overall height: 5.0 mm Overall width: 1.8 mm</p>	<p><b>Large Full Arrow - Black</b></p>  <p>Overall height: 5.0 mm Overall width: 3.6 mm</p>
<p><b>Small Left Arrow - Black</b></p>  <p>Overall height: 3.0 mm Overall width: 1.08 mm</p>	<p><b>Small Right Arrow - Black</b></p>  <p>Overall height: 3.0 mm Overall width: 1.08 mm</p>	<p><b>Small Full Arrow - Black</b></p>  <p>Overall height: 3.0 mm Overall width: 2.16 mm</p>

<p><b>Small Left Arrow - Cyan</b></p>  <p>Overall height: 3.0 mm Overall width: 1.08 mm</p>	<p><b>Small Right Arrow - Cyan</b></p>  <p>Overall height: 3.0 mm Overall width: 1.08 mm</p>	<p><b>Small Full Arrow - Cyan</b></p>  <p>Overall height: 3.0 mm Overall width: 2.16 mm</p>
<p><b>Large Star - Black</b></p>  <p>Overall height: 2.472 mm Overall width: 2.6 mm</p>	<p><b>Small Star - Black</b></p>  <p>Overall height: 1.236 mm Overall width: 1.3 mm</p>	<p><b>Small Star - Cyan</b></p>  <p>Overall height: 1.236 mm Overall width: 1.3 mm</p>
<p><b>Elevation Guide Spot Elevation</b></p>  <p>Lineweight: 0.1 mm Length of lines: 0.8 mm Notes: Lines intersect at 45 degree angles to form an "X".</p>	<p><b>Road Destination and Diagrams Arrow</b></p>  <p>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)</p>	

# B.8 - Slope Guides

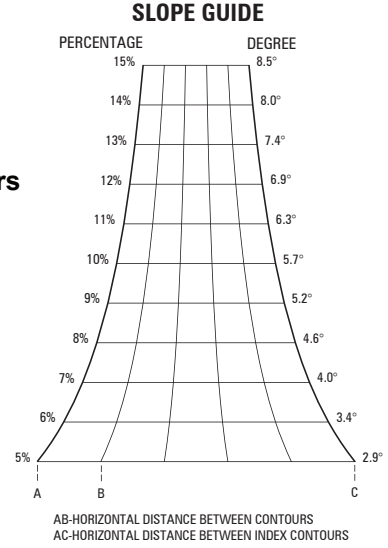
Each diagram is based on the scale and contour interval (in meters) of the map.

**1:50 / 5 meters**



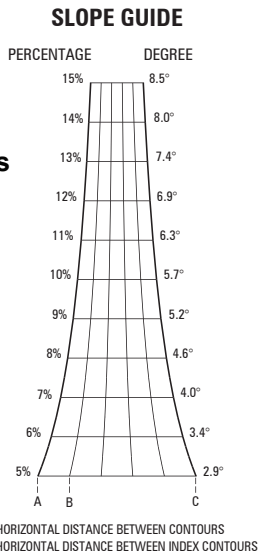
AC Reference #: 202803

**1:50 / 20 meters**



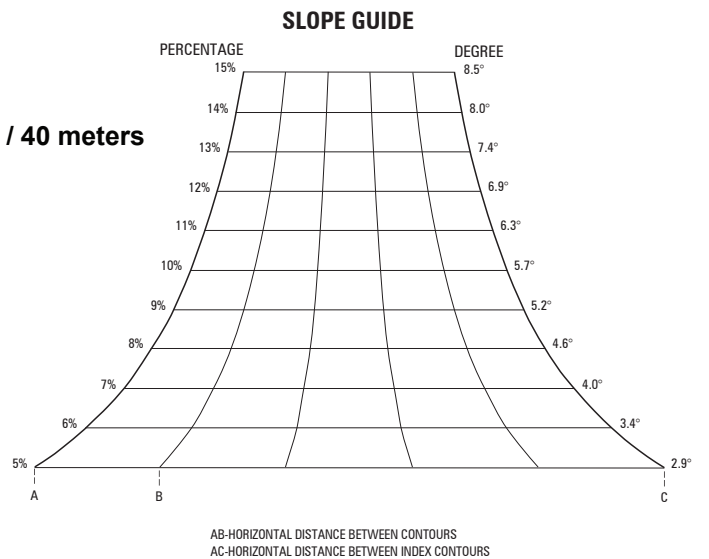
AC Reference #: 202805

**1:50 / 10 meters**



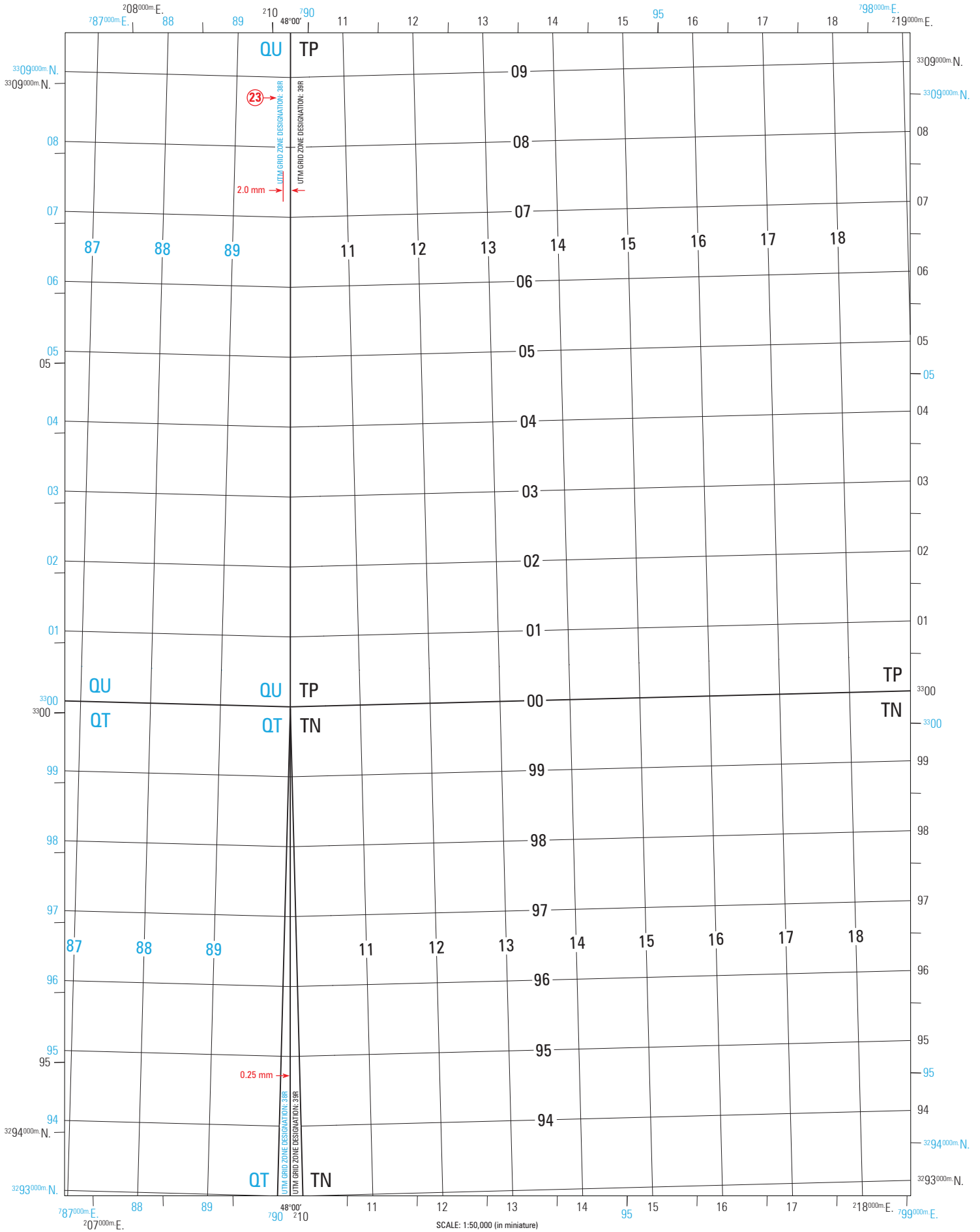
AC Reference #: 202804

**1:50 / 40 meters**



AC Reference #: 202806

# 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)