

METRIC

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Note - The cover page of this standard has been changed for administrative reasons. There are no other changes to this document.

DEPARTMENT OF DEFENSE STANDARD PRACTICE

DMA SINGLE COLOR OVERPRINT LIMITED REVISION UPDATES (SCO)

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FOREWORD

1. This Military Standard is approved for use by all Departments and Agencies of the Department of Defense.
2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Director, Defense Mapping Agency, ATTN: PR, 8613 Lee Highway, Fairfax, VA 22031-2137, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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1. SCOPE

1.1 Scope. This standard defines the requirements for the compilation, color separation, and reproduction of the Defense Mapping Agency's (DMA) Single Color Overprint Limited Revision Update (SCO) program.

1.2 Purpose. Conformance to this standard will assure uniformity of treatment among all mapping and charting elements engaged in this production process.

1.3 Application. This standard shall be used for the production of all SCOs of 1:50,000 and 1:100,000 topographic line maps (TLM) and city graphics (including environs insets) unless otherwise directed by project instructions. Each section of this standard shall be applicable to all three products, unless otherwise indicated. In this standard the term "map" shall include each of the above products unless otherwise indicated. This standard shall be used in conjunction with the applicable specifications and generally contains only information which deviates from those specifications.

1.4 Security. This standard is unclassified.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards and handbooks form a part of this document to the extent specified here in. Unless otherwise specified, the issues of these documents are those listed in the current Department of Defense Index of Specifications and Standards (DODISS) and the supplement thereto, cited in the solicitation (see 6.2).

MIL-T-89301 1:50,000 SCALE TOPOGRAPHIC MAPS OF FOREIGN AREAS
30 OCT 1990

MIL-C-89303 CITY GRAPHICS 30 NOVEMBER 1990

MIL-T-89306 DEFENSE MAPPING AGENCY SPECIFICATIONS FOR
TOPOGRAPHIC MAPS 1:100,000 SCALE

MIL-STD-600010 STANDARD DEPARTMENT OF DEFENSE DMA STOCK NUMBER
BAR CODING

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center, (ATTN: STANDARDIZATION DOCUMENTS ORDER DESK, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents, drawings, and publications.

DMATM 8358.1 DMA TECHNICAL MANUAL DATUMS, ELLIPSOIDS, GRIDS, and
GRID REFERENCE SYSTEMS

DMATM 8358.2 DMA TECHNICAL MANUAL UNIVERSAL TRANSVERSE MERCATOR
(UTM) and UNIVERSAL POLAR STEREOGRAPHIC (UPS)

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center, (ATTN: STANDARDIZATION DOCUMENTS ORDER DESK, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.2 Non-government publications.

This section is not applicable to this standard.

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. DEFINITIONS

3.1 Landmark area or object. An area or object which, because of its significance, is used for rapid and positive orientation when size, shape, or location make it prominent in relation to its surroundings. Easily recognized by line-of-sight from the ground, the water, or the air.

3.2 Major lines of communication. Transportation routes (such as roads and railroads), powerlines, major drainage, or similar features that connect landmark significant areas or features.

3.3 Single color overprint limited revision update map. A SCO is a method of updating existing maps, showing only major lines of communication, landmark areas and objects, and significant changes to existing features using a single color (hydro purple) red light readable overprint.

3.4 Standard size building. An individual building which would be too small to plot to scale.

3.5 Through route. Through routes are the main arteries for traffic through a populated place which may include both the direct route and alternate routes that by-pass the congested areas of the populated place.

3.6 Major connector streets. Major streets (other than through routes) that form a planned or systemized street pattern.

3.7 Project instructions. The instructional documents provided, in addition to the specifications and this standard, for the compilation and color separation of one or a series of SCOs. These documents may include General and Technical Procedures (G&T), Project Assignment Letter (PAL), Product Preparation Guide (PPG), other documents, and oral instructions.

4. GENERAL REQUIREMENTS

4.1 General. This standard shall be used for the production of all SCOs in conjunction with the project instructions and the applicable specifications listed in section 2.1.1. In the event of conflict between these documents, the order of precedence shall be followed: (1) the project instructions, (2) this standard, and (3) the applicable specifications.

4.2 Compilation. The compilation principle for a SCO is to produce a skeletonized product. Only major lines of communications, significant landmark features, and substantial changes to existing features are compiled. Features which are under construction are appropriately labeled. Existing features on the map are retained unless the features no longer exist or they conflict with newly added or revised features. Generally, it is not necessary to verify the existence of minor non-landmark features, nor to delete them. The density of the compilation depends on the amount of detail shown on the previous edition. For example, if the preceding edition already has a heavy concentration of a feature (such as streets, buildings, or drainage) in an area, it is not necessary to compile more, unless the new features are of landmark importance. Conversely, if the previous edition contains only a relatively few instances of a feature and more now exist, it becomes essential that at least some of these new features be compiled. Refer to section 5 of this standard and the project instructions for more specific information.

4.3 Margin information. All margin information is updated, and margin items are added or deleted to conform to current specifications. Margin information which is still correct but not in the current style or format is generally retained, unless otherwise specified.

4.4 Color separation. All additions and changes compiled, including labeling, are color separated as a single color (hydro purple) overprint, unless otherwise specified. Deletions are made directly on the previous edition reproduction negatives. Area features masked on the previous edition, to prevent overprinting other features, need not be restored when the feature for which it was masked is deleted.

5. DETAILED REQUIREMENTS

5.1 General. This section primarily provides specifications for the portrayal of those features shown differently from the regular specifications. For detailed definitions and characteristics of features and items being portrayed, see the appropriate specification document listed in 2.1.1. Features shall be shown only when the necessary information is available. Compilation overlays will show additions, changes, and deletions. Colors to be used for additions and changes are indicated in the appendix; deletions are compiled in orange. Color separation symbology of those features shown differently from the applicable specifications, is also indicated in the appendix. All new or changed features are color separated in hydro purple unless otherwise indicated in this standard or the project instructions.

5.2 Roads, railroads, and related data.

5.2.1 Roads. Compile only major new transportation routes. It is not necessary to compile minor connector routes or short streets. Insignificant alignment changes are not compiled. The road classification of existing roads, on the previous edition, shall be retained unless they have definitely changed or there is an inconsistency in the road classification between matching sheets. If it is doubtful that the road classification has changed, retain the original classification. Roads under construction shall be appropriately labeled.

5.2.1.1 Roads and streets (1:50,000 & 1:100,000 TLM). Three classifications of roads shall be compiled: All weather, hard surface; all weather, loose surface; and fair/dry weather roads, tracks, and streets. All weather hard surface and all weather loose surface roads include all such roads regardless of the number of lanes. If a road is more than two lanes wide, add the appropriate labeling. Divided highways are compiled as all weather hard surface roads with the label "DIVIDED" and the number of lanes added. No distinction is made among fair/dry weather roads, tracks, and streets. Do not attempt to change roads, on the previous edition, among these classifications. Delete all roads which no longer exist. Trails and footpaths are not added but those on the previous edition may be upgraded, if warranted. Trail and footpath symbols on the previous edition need not be deleted unless they are upgraded or conflict with other added or revised features.

5.2.1.2 Roads and streets (city graphic). Four classifications of roads shall be compiled: Divided highway or boulevard, primary road or through street, secondary road or street, and track or trail. All new divided highways, boulevards, primary roads and through streets shall be compiled. A representative pattern of new secondary roads and streets shall be added, with an emphasis on streets connecting major routes and those for which street names have been provided. Drives in parks and narrow streets shall be included in this classification. Avoid compiling numerous parallel streets, short dead end streets, and streets in areas with a dense existing street pattern. Only the most prominent tracks or trails shall be compiled in areas devoid of other roads. Delete all roads that no longer exist. Add, change, or delete street names, as needed, from the source materials provided.

5.2.2 Railroads. Compile only significant new railroads (including narrow gauge railroads and car lines). It is not necessary to compile minor feeder lines, spurs, sidings, or small railroad yards. Portray railroads using the symbols from the appropriate specifications. Generally the gauge of a new railroad is the same as the existing railroad to which it connects, unless otherwise specified. When in doubt as to the gauge of a new railroad, not connecting to an existing railroad, portray it as a normal gauge railroad. Delete any railroads that no longer exist or add the label "ABANDONED", "DESTROYED", or "DISMANTLED" as appropriate.

5.2.2.1 Railroad features. All significant railroad yards, stations, turntables, and snowsheds are compiled. Delete any of these features that no longer exist.

5.2.3 Road and railroad information. All new or changed road names, railroad names, and route markers will be shown. Any new or changed road lane information (1:50,000 & 1:100,000 TLM) and road width information (city graphic) shall also be shown.

5.2.4 Road and railroad objectives. Road and railroad objectives on the previous edition are updated, as needed. The objective is deleted if the road or railroad is deleted or the destination no longer exists. Only the most prominent new roads and railroads compiled shall have objectives added. On city graphics, objectives are shown only to and from large scale insets.

5.2.5 Bridges. A bridge symbol is shown for all roads and railroads crossing double line drainage. Bridges over single line drainage are shown only if they are prominent. Delete any bridges that no longer exist. If a bridge is destroyed or is under construction, label it as such. Drainage, open water tint, and other existing features shall be masked to prevent

overprinting new bridges. New or changed bridge characteristics shall be shown on city graphics when information is available.

5.2.6 Tunnels and causeways. Within populated places only those tunnels that relate to through routes are shown. Outside of populated places all tunnels are shown. All landmark significant causeways are also shown. All tunnels and causeways are labeled.

5.2.7 Ferries and fords. Vehicular and railroad ferries and vehicular fords are portrayed, if significant. Fords are shown across all double line drainage. It is not necessary to identify fords crossing single line drainage.

5.3 Populated places.

5.3.1 Built-up area. Compile any new built-up areas (or new alignments to existing built-up areas) and delete any built-up areas (or parts thereof) that no longer exist. A single built-up area tint shall be used for all new or revised built-up areas. A limiting line shall not be shown. Only significant additions and deletions to the built-up areas on the previous edition will be compiled. The built up area tint shall be used in lieu of compiling areas of standard size buildings. In areas on the previous edition containing buildings, it is not necessary to change them to a built-up area unless the density of buildings has significantly increased. The symbolization of towns on 1:50,000 and 1:100,000 TLMs, which are portrayed by a representative pattern of buildings on the previous edition, should be retained; significant additions to these towns shall be shown as a built-up area. Existing buildings which fall within new built-up areas need not be deleted. Retain any landmark buildings that are still present in these areas. Delete all area features within new built-up areas.

5.3.2 Shantytowns. Compile only landmark new shantytowns and only significant additions and deletions to existing shantytowns. Shantytowns shall be shown using the landmark area symbol and labeled, see 5.5.14. Delete any area features within new shantytowns that no longer exist.

5.3.3 Destroyed populated places (1:50,000 & 1:100,000 TLM). Built-up areas and areas with a concentration of buildings on the previous edition, which are now destroyed, shall be portrayed using the landmark area symbol and labeled; see 5.5.14. Only landmark significant areas need to be shown. Populated place names and any buildings or landmark objects which still exist within the destroyed area shall be retained. The remaining buildings and all built-up area tints shall be deleted.

5.3.4 Destroyed populated places (city graphics). Built-up areas which are now destroyed and all areas shown by the destroyed populated area symbol on the previous edition, shall be portrayed using the landmark area symbol and labeled; see 5.5.14. Populated place names and any landmark objects which still exist within the destroyed area shall be retained. Built-up area tints and destroyed, populated area symbols shall be deleted. Destroyed buildings shall be shown as indicated in 5.4.6.

5.4 Buildings and installations.

5.4.1 Buildings (1:50,000 & 1:100,000 TLM). Only landmark buildings that are plotable to scale are compiled. Standard size buildings are to be compiled only in sparse areas and, if necessary, an area containing buildings may be shown by a representative pattern. Do not over compile. The deletion of individual non-landmark buildings that no longer exist is not required. However, delete any of these buildings which conflict with newly added or revised features.

5.4.2 Buildings and installations (city graphic). Add, revise or delete important buildings, installation outlines, and identification numbers using the source materials provided. Compile all new or changed buildings within new or existing installation outlines. Show each of these features in hydro purple. Delete all buildings that no longer exist. If all or part of an installation outline is deleted, the buildings previously within the outlined area may be retained if they still exist. Delete built-up area tints within new or revised installation outlines. The identification number for all important buildings and installations (and its color) must match that shown in the existing, revised, and/or new Guide to Numbered Features. See 5.14.15.

5.4.3 Government Buildings (city graphics). No color distinction shall be made between new or revised government buildings and other important buildings on SCOs; all are shown in hydro purple. These buildings can be identified in the Guide to Numbered Features.

5.4.4 Hospitals, schools, and religious buildings. Compile only the most prominent hospitals, schools, and religious buildings in built-up areas. Outside built-up areas and on city graphics, all of these features are considered prominent and shall be shown. Delete any of these buildings that no longer exist. On city graphics, these buildings are generally included in the Guide to Numbered Features.

5.4.5 Embassies and consulates (city graphic). Add or delete embassies and consulates from the source materials provided. Generally these shall be included in the Guide to Numbered Features.

5.4.6 Destroyed buildings (city graphic). Destroyed buildings on the previous edition shall be retained unless the buildings have been razed and/or replaced with new buildings or other features. The color of these existing buildings shall be changed to black to avoid confusion with newly compiled buildings or other features. The label "Destroyed building(s)" shall be placed adjacent to these buildings to distinguish them from other buildings on the previous edition. Buildings on the previous edition which are now destroyed shall also be labeled. Destroyed important buildings, not shown on the previous edition, shall be compiled, labeled, and shown in hydro purple. The color of the labels in all cases shall be hydro purple.

5.4.7 Other dwellings (1:50,000 & 1:100,000 TLM). Compile only other (non-building) dwellings of landmark significance. Other dwellings include cave dwellings, underground dwellings, tents, and huts. Use the landmark object symbol(s) for a single dwelling and for groups of two or three dwellings. For larger groups, use the landmark area symbol. Add appropriate labeling. On sheets with many of these features, the appropriate symbol for the particular feature in the specifications may be used. In this case, add the symbol(s) to the purple symbol legend.

5.5 Miscellaneous cultural features.

5.5.1 Boundaries. Only international boundaries and other lines of separation of sovereignty or control need to be shown in the map interior. Update these boundaries and the appropriate boundary labeling, as needed, from the source materials provided. Boundaries of subordinate administrative divisions (first-, second-, and third-order) are identified in the Boundary diagram only. If administrative division boundaries are shown in the map interior on the previous edition, and have not changed, they shall be retained. If any additions or revisions are required to these boundaries, all shall be deleted from the map interior. If the only changes to administrative division boundaries are deletions, the remaining boundaries may be retained. The treatment of boundaries in the Boundary diagram is discussed in 5.14.9.

5.5.2 Powerlines. Compile all significant powerlines. It is not necessary to compile short feeder lines, telephone, or telegraph lines. Delete any powerlines that no longer exist.

5.5.3 Pipelines. Only significant pipelines shall be compiled. It is not necessary to show short feeder lines. The product carried by the pipeline shall be indicated by labeling, if known. Delete any pipelines that no longer exist.

5.5.4 Aerial cableways, conveyors, and similar features. These features are compiled if they are of landmark importance.

Add appropriate labeling. Delete any of them that no longer exist.

5.5.5 Tanks and wells (other than water). Compile only landmark significant tanks and wells. Add appropriate labeling. Delete tanks and wells that no longer exist.

5.5.6 Walls and fences. Walls and fences shall be compiled only if they are of landmark significance. Walls around cities and fortifications are always shown. Delete any walls or fences that no longer exist.

5.5.7 Dams. Compile only new dams of landmark significance. Dams across single-line drains without backed-up water should not be shown. The distinction between earthen and masonry construction is indicated by labeling. Adjust drainage to fit the new dams.

5.5.8 Levees and embankments. Areas containing new landmark levees or embankments are identified by labeling only. Individual levees are not portrayed unless they are of landmark significance or unless otherwise directed by project instructions.

5.5.9 Harbor and coastal structures. Landmark significant harbor and coastal structures are compiled such as breakwaters, jetties, and piers. Delete any of these features that no longer exist.

5.5.10 Airfields and heliports. Compile all new airfields and heliports, as well as any additions to existing airfields, including runways, taxiways, aprons, hardstands, and related features. Add or revise labeling per appropriate specifications. It is not necessary to show airfield limits. Abandoned airfields and heliports shall be labeled as such. Delete any airfields or heliports that no longer exist. Delete or revise all features that conflict with new airfields or heliports.

5.5.11 Obstructions (1:50,000 & 1:100,000 TLM). When information is provided, obstructions and obstruction information will be added, revised, or deleted per appropriate specifications. Verify the existence of all obstructions and delete those which no longer exist.

5.5.12 Racetracks and stadiums (city graphic). Add all landmark racetracks and stadiums and label appropriately. Delete any racetracks or stadiums which no longer exist.

5.5.13 Landmark objects. Compile only the most prominent new landmark objects, not otherwise symbolized, (such as towers, masts, chimneys, monuments, power transformer stations, lighthouses, etc.) in areas of dense cultural development on the

previous edition. In other areas, all such features should be shown. Delete any of these features that no longer exist. The landmark object symbol shall be used for these features.

5.5.14 Landmark areas. A landmark area is a locality (other than a built-up area) which is prominent in relation to its surroundings. Landmark areas include storage areas, mining areas, antenna fields, water and sewage treatment plants, golf courses, cemeteries, sports centers, and similar areas. Compile all significant new landmark areas and changes to existing areas, and any new buildings and landmark objects within them. Outline and label these features per appropriate specifications. Appropriately label any landmark areas on the previous edition that have been abandoned or destroyed and delete all landmark areas which no longer exist. Delete or revise all features that conflict with new or revised landmark areas.

5.5.15 Other cultural features. Add any other cultural features of landmark significance. Use the landmark object or area symbol or the symbolization from the appropriate specifications and label appropriately. Delete any such features that no longer exist.

5.6 Drainage (Inland hydrography).

5.6.1 General. Only major landmark significant shoreline and drainage feature changes and additions are compiled. Do not show minor alignment differences. No distinction is made between newly compiled intermittent or perennial drainage, or among definite, indefinite or intermittent shorelines. Delete or revise all existing drainage features that conflict with new or revised drainage or other features. Except for shorelines, streams, and open water bodies, all drainage features shall be appropriately labeled if not identified by a unique symbol in the hydro purple legend. The color of all new or revised drainage features, including the open water tint, shall be hydro purple. Any major drainage additions or changes will be reflected in the Boundary diagram, Adjoining Sheets diagram, and Elevation Guide (1:50,000 and 1:100,000 TLM).

5.6.2 Shoreline. It is only necessary to compile major shoreline changes. Verify that the shoreline difference is not due to tidal changes. No symbol distinction is made between natural or man-made shorelines. An open water tint is added to new open water areas and deleted from new land areas. Delete all features, including coastal hydrography, that no longer exist due to the shoreline change.

5.6.3 Lakes, ponds, and reservoirs. Compile only new lakes, ponds, and reservoirs of landmark significance. Adjust the shoreline of existing landmark lakes, ponds, and reservoirs when they have changed configuration a significant amount. Delete any of these features that no longer exist.

5.6.4 Streams. Compile only major double line stream (river) additions and changes. Single line streams are normally not updated on SCOs unless there is a major change to the existing drainage pattern, or there are new streams in areas where there was a limited amount of water resources on the previous edition map.

5.6.5 Canals. Compile only major double line canal additions and changes. Single line canals are not normally updated on SCOs unless there is a major change to an existing landmark canal, or there are new single line canals in areas where there was a limited amount of water resources on the previous edition. All new canals are labeled and, when identifiable, the labels navigable, abandoned, dry, or under construction are also added. Verify the classification of existing canals from the previous edition. Delete canals from the previous edition that no longer exist.

5.6.6 Ditches. Ditches are not normally updated on SCOs. However, major changes to the existing pattern of ditches or new landmark significant ditches will be compiled and labeled. In areas where there are numerous new ditches, it is only necessary to show a representative pattern of the major ditches and add the label "Numerous ditches" to the area. No symbol distinction is made between major and minor ditches.

5.6.7 Water conduits. Compile only landmark water conduits. These may include flumes, water pipelines, penstocks, or similar features. They may occur at ground level or underground, or they may be elevated. Water conduits may also pass through tunnels. No distinction is made between traversable and non-traversable tunnels. Identify these features by labeling. Delete any of these features that no longer exist.

5.6.8 Karez (underground waterway). Compile only landmark karezes. It is not necessary to show the location of the shafts. Delete any karezes that no longer exist. Karezes are not shown on city graphics unless otherwise specified in project instructions.

5.6.9 Salt evaporators and fish ponds or hatcheries. Only landmark salt evaporators, fish ponds or hatcheries are added or revised. A representative pattern of the major separations shall be shown. Delete any of these features that no longer exist.

5.6.10 Sewage disposal and filtration beds. It is only necessary to compile landmark sewage disposal and filtration beds. The separations between beds shall not be shown. Delete any of these features that no longer exist.

5.6.11 Swimming pools and man-made reservoirs. Swimming pools and man-made reservoirs are not normally shown on SCOs, however, if they are of landmark significance they shall be shown. It is not necessary to show the separations. Delete any swimming pools or man-made reservoirs that no longer exist.

5.6.12 Wells, springs, and cisterns. Compile only wells, springs, and cisterns of landmark significance. No distinction is made between perennial and intermittent wells or springs. Add appropriate labeling. Delete any of these features when it can be determined that they no longer exist.

5.6.13 Drainage area features. Drainage area features (swamp, rice, sabkha, and land subject to inundation) are not normally updated on SCOs. However, if landmark significant changes in these features have occurred, new drainage area features shall be depicted by adding the appropriate labeling to the area. No limiting line is required. Significant drainage area features which no longer exist shall be deleted. Deletions are also made, as needed, when drainage area features from the previous edition conflict with the newly compiled features. If directed in project instructions, drainage area features may be shown using their respective symbols, from the appropriate specifications, in lieu of labeling. In this case, the drainage area features will be shown in hydro purple and added to the purple symbol.

5.7 Relief.

5.7.1 Contours. The predominant relief change shown on SCOs is adjustments made to contours for new drainage additions or changes. Delete all contours, spot elevations, and relief area features within new open water areas. If an entire contour can not be logically deleted, the contour will be stopped at the new shoreline. Contours are also adjusted for new airfields. Any contours which conflict with new runways, taxiways, etc shall be deleted within the limits of the new features. No new contours will be shown unless specified in project instructions. Cuts, fills, and related features are not added or revised on SCOs but may be deleted, when necessary. Contours are generally not shown on city graphics.

5.7.2 Spot elevations. On 1:50,000 & 1:100,000 TLMs, the highest and lowest spot elevation on the sheet is added, if not shown on the previous edition. If the highest spot elevation is not shown in the larger type size, as called for in the appropriate specifications, the type shall be changed. Corresponding revisions to the Elevation Guide shall also be made. On city graphics, spot elevations are generally not shown. For all products, spot elevations shall be deleted when inconsistent with newly added or revised features.

5.7.3 Relief area features. Relief area features such as sand, gravel, sand dunes, and terraces as well as all arctic relief features are not updated on SCOs. Delete these features, when necessary, to avoid conflict with newly added features.

5.8 Vegetation. Vegetation is not updated on SCOs unless otherwise specified in project instructions. Vegetation is deleted, as needed, when it conflicts with newly compiled features.

5.9 Coastal hydrography. Coastal hydrography is not added or updated on SCOs unless specified in project instructions. Deletions are made, as needed, when coastal hydrographic features conflict with newly compiled features.

5.10 Interior type. All interior type added or changed shall be shown in hydro purple. The type size and style used shall match, as close as possible, the type on the previous edition. If the type necessary to do this is not available, the type size and style from the current appropriate specifications may be used, unless otherwise stated in the project instructions. Type to be added or revised includes descriptive terms that help identify new features and any names information provided with the source materials (i.e., names overlays). If named features shown on the names sources can not be verified during compilation, these features shall not be added. Position new names so that they do not overprint existing terms and features. When necessary, existing names may be repositioned to avoid overprinting new features. These names shall also be shown in hydro purple. The new interior type may be haloed if the type is difficult to read when overprinting new or existing linear or area features.

5.11 Registration and edge match requirements. All new features shall register with the existing features on the previous edition, and shall be edge matched with the data on adjoining sheets, whenever possible. While new features may not always edge match those on older adjoining sheets, all features on sheets compiled contemporaneously shall be edge matched.

5.12 Projection and grid. The projection and grid(s) shown on the previous edition are not normally changed on SCOs. However, when the datum of the previous edition is not the current preferred datum for the area, new projection and/or grid data may be required. This will be indicated in the project instructions. The preferred datum may be shown by the addition of a secondary grid. In this case, the interior secondary grid ticks and exterior grid values shall be shown in hydro purple, unless otherwise specified. On 1:100,000 TLMS, when grids on two datums are required and the 100,000 meter square identification letters are not the same for both datums, the letters for each datum shall be shown. The color of the letters

shall match the color of the respective grid values. Refer to project instructions for additional information.

5.13 Insets.

5.13.1 Large scale inset. Update the large scale inset of any sheet which contains one on the previous edition, in the same fashion as the interior of the sheet. Normally, large scale insets are not added or deleted on SCOs. However, if project instructions call for the deletion of a large scale inset shown in the interior of a sheet, compile and color separate the resultant blank area from the source materials provided and this standard unless otherwise directed in project instructions. Similarly, add large scale inset(s) in the same manner. Refer to the appropriate specifications and the project instructions for further information.

5.13.2 Environs inset (city graphic). Add, delete, or revise an environs inset in the same manner as a large scale inset. Scale permitting, all significant changes made to the interior of the graphic shall be reflected in the environs inset. See the specifications for the symbols depicted on the interior of the graphic which are not shown in the environs inset or which are shown differently. Refer to the specifications and the project instructions for further information.

5.14 Margin information.

5.14.1 Location of margin information. The location of the margin information that is added or revised shall adhere to the appropriate specification style sheet format. However, this may not always be possible due to space limitations and the position of data on the previous edition that does not need to be revised. When necessary, existing margin data may be repositioned and new margin data may be placed where space is available. The repositioning of features on the previous edition may be done directly on the reproduction negatives. In this case the original color of these features may be retained.

5.14.2 Style and size of margin type. All margin type, added or revised, shall conform to the type style and size on the current appropriate specification style sheet, unless otherwise stated in the project instructions. It is not necessary to change the style and size of type on the previous edition that is not being revised. Unless repositioned as indicated in 5.14.1 or otherwise specified, all margin type shall be shown in hydro purple.

5.14.3 Map identifications. Map identifications are those items appearing in the map margin which serve to identify the map sheet. These items shall be updated, as necessary, using the current appropriate specifications style sheet format, including type style and size. Any reference to these items not

in the current appropriate specification style sheet format shall be deleted. All changes to these items, except the stock number bar code, shall be shown in hydro purple.

5.14.3.1 Series name and scale. The type size and style should be updated only when the series name or scale has changed.

5.14.3.2 Series, sheet, and edition number. Update the series and sheet number when source materials indicate that these have changed. The edition number is increased by one. The type size and style of these items, in the upper right corner of the sheet, need not be updated if only the edition number has changed. The format (including type size and style) of these items and the sheet name, in the lower left corner of the sheet, shall be updated, if needed, to conform to the current specifications. On city graphics, a sheet number is shown only when the city is covered by more than one sheet.

5.14.3.3 Sheet name. The sheet name should be updated, if necessary, using the source materials provided. The type size and style of the sheet name, in the top center of the sheet, should be updated only when the sheet name has changed. See 5.14.2 for the style and format of the sheet name in the lower left corner of the sheet. On 1:50,000 and 1:100,000 TLMs, be sure any change in the sheet name is reflected in the name of the feature, in the map interior, for which the sheet is named. On city graphics, the sheet name is the city name and is shown in the interior of the graphic only when the location of the city is not readily apparent. The city name is always shown in the environs inset.

5.14.3.4 Stock number bar code. Delete the old stock number and/or bar code and add a new stock number bar code. If there is limited room to properly place the bar code, move the necessary items and show them in hydro purple. If the elevation band boxes below the Elevation Guide need to be repositioned, retain them in their original color. The color of the stock number bar code shall always be black.

5.14.4 Symbol legend. The existing symbol legend on the previous edition shall be retained. A separate legend shall be added to show the new hydro purple symbols with the word "LEGEND" directly above it. This legend shall include each of the road classifications, whether or not all are shown on the interior of the map. Other symbols added to the map shall be shown in the legend. However, symbols which are labeled in the interior of the map need not be included in the legend. Typically, the legend will include: built-up area, building, bridge, landmark object, landmark area, and shoreline/drainage. On city graphics, installation outlines and identification numbers are also shown in the legend.

5.14.5 Glossary. Update the glossary on the previous edition with any names information provided. The addition or deletion of names or terms in the map interior or margin should be reflected in the glossary. Minor changes can be incorporated into the existing glossary. When significant changes are required, the existing glossary is deleted and replaced with a new glossary. In either case, the color of all type added will be hydro purple.

5.14.6 DMA seal. Add the DMA seal if not on the previous edition. Delete any other organizational seal(s) unless otherwise directed in project instructions.

5.14.7 Grid reference box (1:50,000 & 1:100,000 TLM). The grid reference box shall be updated, if necessary, to conform to current specifications. If no grid or datum changes are required on the sheet, the color of the new grid reference box shall be hydro purple. However, if a secondary grid is added, the color of the grid reference box shall be the color of the major grid (lines) on the map. If the 100,000 meter grid square identification letters for the major and secondary grids are not the same, the letters for both datums shall be shown in the grid reference box. The color of the letters shall match the color of the respective grid values. A transition note shall also be required in this situation. Refer to the source materials and project instructions for additional information.

5.14.8 Declination diagram (1:50,000 & 1:100,000 TLM). Revise the declination diagram data, if necessary, using the most current information provided. Do not revise the declination diagram(s) themselves unless the relative position of the prongs have changed. If they have, replace the entire diagram(s) per the appropriate specifications. The color of all added or replaced data shall be hydro purple. If there are two declination diagrams, be sure that each is labeled with the grid zone to which it refers.

5.14.9 Boundary diagram. All boundaries are identified in the Boundary diagram. Update these boundaries, as needed, from the source materials provided. Any major additions or changes in the drainage pattern on the interior of the map shall also be reflected in the Boundary diagram. If extensive changes are required to the Boundary diagram, the entire diagram may be replaced. Add a Boundary diagram if omitted on previous edition. See the appropriate specifications for Boundary diagram symbols and labeling. The color of all new or revised Boundary diagram information shall be hydro purple. The treatment of boundaries on the interior of the map is discussed in 5.5.1.

5.14.10 Adjoining Sheets diagram. Update all information, as needed, in the Adjoining Sheets diagram using the source

materials provided. Any major additions or changes in the drainage compiled on the interior of the map shall be reflected in the Adjoining Sheets diagram. All bodies of water and major drainage shown in the diagram that are not identified in the map interior shall be named in this diagram. The color of all new or revised information in the Adjoining Sheets diagram shall be hydro purple. On city graphics, an Adjoining Sheets diagram is shown only when the city is covered by more than one sheet.

5.14.11 City Location diagram (city graphic). Normally, the City Location diagram will not require alteration if it was shown on the previous edition using the current specifications. However, make any needed changes using the source materials provided. If the previous edition contains no City Location diagram or if the diagram is not in the format shown in the current specifications, add or replace the diagram according to these specifications. The color of a new City Location diagram, and all new or revised information in the existing diagram, shall be hydro purple.

5.14.12 Elevation Guide (1:50,000 & 1:100,000 TLM). Verify all information in the existing Elevation Guide but do not alter the elevation bands unless a major change is required. Be sure that the highest and lowest elevation on the sheet is included in the guide and that all elevations in the guide are shown in the interior of the map. Portray the highest spot elevation in a larger and/or bolder type size if not shown that way on the previous edition. Any major additions or changes in the drainage pattern on the interior of the map shall be reflected in the guide. Add 10,000 meter grid lines and values to the guide if not shown on the previous edition. The color of all new or revised information in the Elevation Guide shall be hydro purple except as follows. If an elevation guide box was not included on the previous edition map or if a significant change is required in the elevation bands, a new Elevation Guide shall be compiled and color separated using the standard colors, lineweights, and type as specified in the appropriate specifications. However, the Elevation Guide shall not be replaced just to enlarge it to meet current specifications. If any portion of the Elevation Guide must be repositioned, its color shall not be changed.

5.14.13 Conversion graph (1:50,000 & 1:100,000 TLM). Add a conversion graph if not on the previous edition or revise the conversion graph on the previous edition, if necessary. When the margin has a limited amount of space, the conversion graph may be reduced by 25%.

5.14.14 Slope guide (1:50,000 TLM). Add a slope guide if not on the previous edition. Should the margin have a limited amount of space, the slope guide need not be added. The slope guide may be deleted when there is limited room for the other additions. However, every attempt should be made to add or retain the slope guide.

5.14.15 Guide to Numbered Features (city graphic). Update the items in the Guide to Numbered Features to reflect changes made on the interior of the graphic using the source materials provided. If the guide requires only a minor update, such as deletions of guide items, changes in the grid reference or spelling, and/or the addition of only a few guide items, this can be done by modifying the existing guide. Items in the guide may be repositioned, where necessary. When many items must be added and/or changed in the guide, a separate Guide to Numbered Features, containing these new items, shall be added. The existing guide shall be modified, as needed, to avoid duplication of guide items. In extreme cases, the existing guide may be replaced by the new guide. In all cases, new or revised items in the existing and/or new guide must be placed in their appropriate categories and correctly referenced to the corresponding features in the interior of the graphic. Whenever possible, guide items should be placed in alphabetical order within each category. When a new guide must be added, it should be placed either in the margin or the interior of the graphic as close as possible to the existing guide. The color of a new Guide to Numbered Features, and all new or revised information in the existing guide, shall be hydro purple. Be sure that the color of the identification number for each guide item is the same as its identification number in the interior of the graphic. In the assignment of new identification numbers, every attempt shall be made to retain the numbering scheme from the existing guide. Where this is not possible, start with the next number, ending with the digit "1", that follows the last identification number used in the existing guide. Refer to the specifications for further guidance.

5.14.16 Index to Streets (city graphic). Update the items in the Index to Streets to reflect changes made to street names on the interior of the graphic using the source materials provided. If the index requires only a minor update, such as deletions of street names, changes in the grid reference or spelling, and/or the addition of only a few new street names, this can be done by modifying the existing index. Items in the index may be

repositioned, where necessary. When many street names must be added and/or changed in the index, a separate Index to Streets, containing these new items, shall be added. The existing index shall be modified, as needed, to avoid duplication of items between the two indexes. In extreme cases, the existing index may be replaced by the new index. Street identification numbers, used in the index to reference streets numbered in the interior of the graphic due to space constraints, should be in numerical order in the revised and/or new index, if possible. However, the existing index should not be rearranged or replaced solely to retain the street identification numbers in numerical order. In all cases, each new or revised street name and/or street identification number in the existing and/or new index must be correctly referenced to the corresponding street in the interior of the graphic. The street names in the revised and/or new Index to Streets must be in alphabetical order. When a new index must be added, it should be placed either in the margin or the interior of the graphic as close as possible to the existing index. The color of a new Index to Streets, and all new or revised information in the existing index, shall be hydro purple.

5.14.17 Margin notes.

5.14.17.1 Revisions in purple note. The note "REVISIONS IN PURPLE" is added above the hydro purple symbol legend.

5.14.17.2 Publication note. The "Prepared and published by..." note is added or revised if necessary.

5.14.17.3 Compilation history note. Retain all information pertaining to the date the previous edition map was compiled and the compilation method used.

5.14.17.4 Limited revisions note. The note "LIMITED REVISIONS AS OF (year)" shall be added or updated. This note should be placed above the compilation history note of the previous edition, or as close to it as as possible.

5.14.17.5 Scale note and bar scales. The scale note and the bar scales are not revised on SCOs unless otherwise specified in project instructions.

5.14.17.6 Elevations note. This note is shown on all sheets containing contours and/or spot elevations. Add or delete this note, if necessary. Except for sheets with elevations in feet, this note should read "ELEVATIONS IN METERS".

5.14.17.7 Contour interval notes. Add, delete, or revise the contour interval and/or supplementary contour interval note, as needed. This note is shown on city graphics only on sheets with contours.

5.14.17.8 Ellipsoid and datum notes. Update ellipsoid and datum notes to reflect changes in grid and datum information as specified in project instructions.

5.14.17.9 Coordinate Conversion notes. Add or revise the coordinate conversion note(s) if a secondary grid is shown and as specified in project instructions.

5.14.17.10 Boundary disclaimer notes. Add the note "BOUNDARY REPRESENTATION IS NOT NECESSARILY AUTHORITATIVE" on all sheets containing any type of boundary in the interior of the map, the Boundary diagram, or the Adjoining Sheets diagram, if the note is not on the previous edition. Delete this note if all boundaries are deleted. Also delete any old boundary disclaimer notes. Add additional boundary or other disclaimer notes if specified in project instructions.

5.14.17.11 Users note. Update users note, when necessary, to the current DMA users note unless otherwise specified in project instructions.

5.14.17.12 Security classification note. Update security classification note(s), if needed, and as specified in project instructions. On unclassified sheets, the current "LIMITED DISTRIBUTION..." note is usually required.

5.14.17.13 Red-light readable note. Add the note "THIS MAP IS RED-LIGHT READABLE", if necessary and applicable. This note is not shown on city graphics unless otherwise directed in project instructions.

5.14.17.14 One second notes (1:50,000 & 1:100,000 TLM). One second of longitude notes and one second of latitude notes shall be added when not on the previous edition map. Update the existing one second notes, when needed, unless otherwise directed in project instructions.

5.14.17.15 Medium and large scale reference notes. Add or revise the medium (JOG) and/or large scale reference notes per appropriate specifications, when needed, and as specified in project instructions.

5.14.17.16 Street name notes (city graphics). Add, delete or revise the street name notes associated with the Index to Streets, shown on the style sheet, when applicable and necessary.

5.14.17.17 Other notes. Add, delete, or revise any other notes when specified in project instructions.

5.15 Language requirements. When required, certain margin items are shown in one or more languages in addition to English. Items which require translation are indicated on the applicable

specification style sheet. On some projects, other margin information is also translated and/or interior descriptive terms are shown in a language other than English. Refer to project instructions for all language requirements.

5.16 Standard printing color. The standard printing color for the additions and revisions shown on SCOs is SPC 96532 Hydro Purple unless otherwise specified in project instructions.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory).

6.1 Intended use. SCOs are designed as an update of major, militarily significant, features on existing out of date products in the shortest time period possible.

6.2 Issue of DODISS. When this standard is used in acquisition, the applicable issue of DODISS must be cited in the solicitation (see 2.1.1).

APPENDIX

SYMBOLOLOGY

10. GENERAL

10.1 Scope. This appendix describes the specific symbology to be used in the compilation and color separation of SCOs. Generally, only compilation and color separation symbology which differs from that shown in the appropriate specifications is detailed in this appendix.

20. APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

30. SPECIFIC INSTRUCTIONS

30.1 General. The compilation and color separation symbology listed in this section shall be used for all SCOs, unless otherwise directed in project instructions. Use the symbols in the appropriate specifications for all features not otherwise described in this standard or appendix, except that the minimum lineweight of all linear symbols added shall be 0.15 mm (.006 in). Unless otherwise noted in this standard or appendix, hydro purple shall be used for all color separation symbology.

30.2 Compilation and color separation symbology. The symbology listed in the following section shall apply to all products included in this standard, except as noted. While some symbology not differing from the specifications may be listed herein, the current specifications of the product to be revised and the applicable project instructions must be used in conjunction with this document. Refer to the applicable section of this standard for additional information.

30.3 SCO symbology table.

Feature <u>Description</u>	<u>Compilation Color</u>	<u>Color Separation Lineweight/Symbol</u>
%*Roads:		
All weather hard surface	Red	1.0 mm (.040 in)
All weather loose surface	Green	0.6 mm (.025 in)
Fair/dry weather, track, street	Brown	0.4 mm (.016 in)
%#Roads:		
Divided highway or boulevard	Purple	@See specs.
Primary road or through street	Green	@1.0 mm (.040 in)
Secondary road or street	Brown	@0.5 mm (.020 in)
Track or trail	Yellow	@0.5 mm (.020 in)
%Railroad	Black(1)	@See specs.(1)
+Railroad yard	Black(2)	Landmark area(2)

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<u>Feature Description</u>	<u>Compilation Color</u>	<u>Color Separation Lineweight/Symbol</u>
+Railroad station	Black	Building symbol
+Railroad turntable	Black	Landmark object
+Snowshed	Black	Landmark area
%Bridge	Black	@See specs.
+Tunnel	Black	@See specs.
+Ferries & fords	Black	@See specs.
%Built-up area	Blue(3)	42%-120D-45°(3)
+Shantytown	Black	Landmark area
+Destroyed populated places	Black	Landmark area
%Building, standard (minimum) size	Black	0.5 mm (.02 in)
%Building, other than standard size	Black(4)	@See specs.(4)
Government building	Black(4)	@See specs.(4)
%Hospital & School	Black(4)	@See specs.(4)
%Religious building	Black(4)	@See specs.(4)
+#Destroyed building	Black(4)	See specs.(4)
%#Identification outline	Red	See specs.(5)
+*Other dwellings (less than three)	Black	Landmark object
+*Other dwellings (more than three)	Black	Landmark area
%+Boundaries	Black	@See specs.
%*Powerlines	Green	@See specs.
%#Powerlines	Black	@See specs.
+Pipelines	Black(6)	@See specs.(6)
+Aerial cableway, conveyor, etc.	Black	@See specs.
+Tank or well (other than water)	Black(7)	See specs.(7)
%+Walls	Black(8)	@See specs.(8)
%Fence	Black(9)	See specs.(9)
+Dam	Black(10)	See specs.(10)
Harbor and coastal structures	Black	@See specs.
+Airfield	Green(11)	See specs.(11)
%Heliport	Green	@See specs.
+*Obstruction	Green	@See specs.
+Racetrack and stadium	Black	@See specs.
%+Landmark object	Black(12)	See specs.(12)
%+Landmark area	Black(13)	0.15 mm (.006 in) (13)
%Shoreline	Green	@0.2 mm (.008 in)
Lakes, ponds, etc. (shoreline)	Green	@0.2 mm (.008 in)
Streams, single line	Green	@0.2 mm (.008 in)
Streams, double line (shoreline)	Green	@0.2 mm (.008 in)
+Canal, single line	Green	@0.2 mm (.008 in)
+Canal, double line (shoreline)	Green	@0.2 mm (.008 in)
%Open water tint	Green(14)	12%-120D-45°
+Ditch	Green	0.2 mm (.008 in)
+Water conduit	Green	0.25 mm (.01 in)
+*Karez	Green(15)	@See specs.
+Salt evaporator	Green	@See specs.
+Fish pond or hatchery	Green	@See specs.
+Sewage disposal & filtration bed	Green	@See specs.
+Swimming pool & man-made reservoir	Green	@See specs.
+Wells & cisterns	Green(16)	See specs.(16)
+Springs	Green(17)	@See specs.
+Drainage area features	Yellow	Label only

APPENDIX

30.3.1 Legend for reference marks used in the SCO symbology table.

- + Descriptive label required for this feature on both the compilation and the finished product.
 - % Include this symbol in the symbol legend if shown on the map. All road classifications are shown on every sheet. Other symbols may be omitted from the legend if the symbol is labeled on the interior of the map.
 - * 1:50,000 & 1:100,000 TLM only.
 - # City graphic only.
 - @ Portray symbol as shown in specifications except that the minimum linewidth is 0.15 mm (.006 in) and the symbol color is hydro purple.
- (1) Use the appropriate symbol(s) for the type of railroad added or revised. Each railroad symbol used shall be included in the symbol legend.
 - (2) The railroad yard symbol in the applicable specifications may be used in lieu of the landmark area symbol.
 - (3) Compile the outline of the built-up area and lightly shade. The built-up area outline is not shown on the finished map.
 - (4) Compile and color separate all buildings, larger than the standard size building, to scale.
 - (5) Screen identification outline 67% - 240D - 30°/60°.
 - (6) The pipeline symbol(s) may be added to the symbol legend (and not labeled in the interior of the map) if many new pipelines are added and if features using a similar symbol are not also portrayed.
 - (7) Compile all wells and tanks to scale if larger than the standard size. Portray them with a solid circle symbol and label.
 - (8) Walls need to be labeled on city graphics only. On city graphics with new numerous new walls, the wall symbol used on 1:50,000 and 1:100,000 TLMs may be substituted, unless otherwise directed by project instructions.
 - (9) Lineweight (dash & cross) .0.15 mm (.006 in); Dash length 4.0 mm (.16 in); Cross length 1.0 mm (.04 in); Space between dash and cross 1.5 mm (.06 in). Existing type cut, lineweight 1.0 mm (.004 in), may be used for this symbol.
 - (10) Use the appropriate masonry dam symbol from the specifications. Add appropriate labeling.
 - (11) Outline all new or revised runways, taxiways, etc. to scale on the compilation. Portray these these features as a solid purple symbol.
 - (12) Compile landmark objects with a small open circle with a dot at its center. Color separate this symbol: Circle lineweight .0.15 mm (.006 in); Circle diameter 1.0 mm (.04 in); Dot 0.2 mm (.008 in). Existing type cut, circle lineweight 0.1 mm (.004 in), may be used for this symbol.
 - (13) Compile an outline around the landmark area except when coincident with a linear feature. Dash outline: Dash 0.8 mm (.032 in); 0.4 mm (.016 in).
 - (14) Lightly shade or label areas of open water on the compilation.

APPENDIX

Adjust new purple open water tint to the existing blue open water tint, where needed.

- (15) Compile as a dashed line and label.
- (16) Compile and color separate cisterns using the well symbol.
- (17) Label new springs only if the symbol is not shown in the legend

30.4 Road classifications change (1:50,000 & 1:100,000 TLM).

30.4.1 Downgrading an existing road. If a road is downgraded to a lower classification, delete the original road, and any fill, and replace the road with a new purple road of the appropriate classification. The following method for downgrading an existing road (with a road fill) may be used, at the option of the cartographer, unless otherwise specified in the project instructions.

30.4.1.1 Hard surface to loose surface. An all weather hard surface road on the previous edition may be downgraded to an all weather loose surface road (with the same number of lanes) by dashing road fill on the appropriate negative.

30.4.1.2 Hard or loose surface to fair/dry weather. An all weather hard surface one lane road or an all weather loose surface one lane road on the previous edition may be downgraded to a fair/dry weather road by deleting the road fill on the appropriate negative.

30.4.2 Upgrading an existing road. If a road is upgraded to a higher classification, delete the original road that has changed, and any fill, and replace the road with a new purple road of the appropriate classification. The following alternate method for upgrading short portions of cased roads may be used only when specified in the project instructions.

30.4.2.1 Alternate road upgrading method. If a short portion of a cased road requires upgrading, the road fills may be added directly to the appropriate negative by removing the emulsion in the area. This method may be used only if specified in the project instructions.

30.5 Descriptive labeling of named features. Descriptive labels are added to many existing and newly added features, as needed. Except for road and railroad labeling, the first letter of the first word of all descriptive terms (of features without a proper name) shall be capitalized. The remaining letters shall be lower case. Descriptive terms added to features with a proper name shall be shown in all lower case letters and within parenthesis. Road and railroad names and descriptive labels are shown in all capital letters. Descriptive terms shall be shown directly below or to the right of proper names, whenever possible. See the appropriate specification for further guidance.

APPENDIX

30.6 Sample Legends. The symbol legends in the following sections are a sample of purple symbol legends shown on SCOs. They are examples only and are not all inclusive. Do not take measurements from the sample legend symbols. The SCO legend should show all road classifications for the product and each symbol shown on the map which is not labeled. Legends may be tailored to an individual sheet or project. All symbols included in the legend need not be shown on every sheet. The format and width of the purple symbol legend should match that of the legend on the previous edition and should be placed adjacent to it, whenever possible. The format of the legend may be modified due to space limitations. Refer to the appropriate specifications, project instructions, and section 30.3 for further guidance in constructing the SCO symbol legend.

APPENDIX

30.6.1 Sample legend (1:50,000 & 1:100,000 TLM). The symbol legend below is for illustrative purposes only. Tailor the actual legend to the particular sheet or project.

LEGEND

- Built-up area.....
- Buildings.....
- All weather hard surface road.....
- All weather loose surface road.....
- Fair/dry weather road, track, street.....
- Railroad: single track; multiple track.....
- Wall.....
- Fence.....
- Powerline.....
- Bridge.....
- Landmark object.....
- Landmark area.....
- Shoreline and drainage.....

APPENDIX

30.6.2 Sample legend (city graphic). The symbol legend below is for illustrative purposes only. Tailor the actual legend to the particular city graphic.

LEGEND

Built-up area.....

Complex outline and number.....

Important building and number.....

Divided highway or boulevard.....

Primary road or through street.....

Secondary road or street.....

Track or trail.....

Railroad: single track; multiple track.....

Fence.....

Powerline.....

Bridge.....

Landmark object.....

Landmark area.....

Shoreline and drainage.....

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CONCLUDING MATERIAL

Custodian:
DMA-MP

Preparing activity:
DMA-MP

Review activities:
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Army - PO
Navy - NO, MC

(Project MCGT-0076)

User activities:
Air Force - 09
Army - PO
Navy - NO, MC

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3. DOCUMENT TITLE Military Standard for DMA Single Color Overprint Limited Revision Updates (SCO)		
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
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