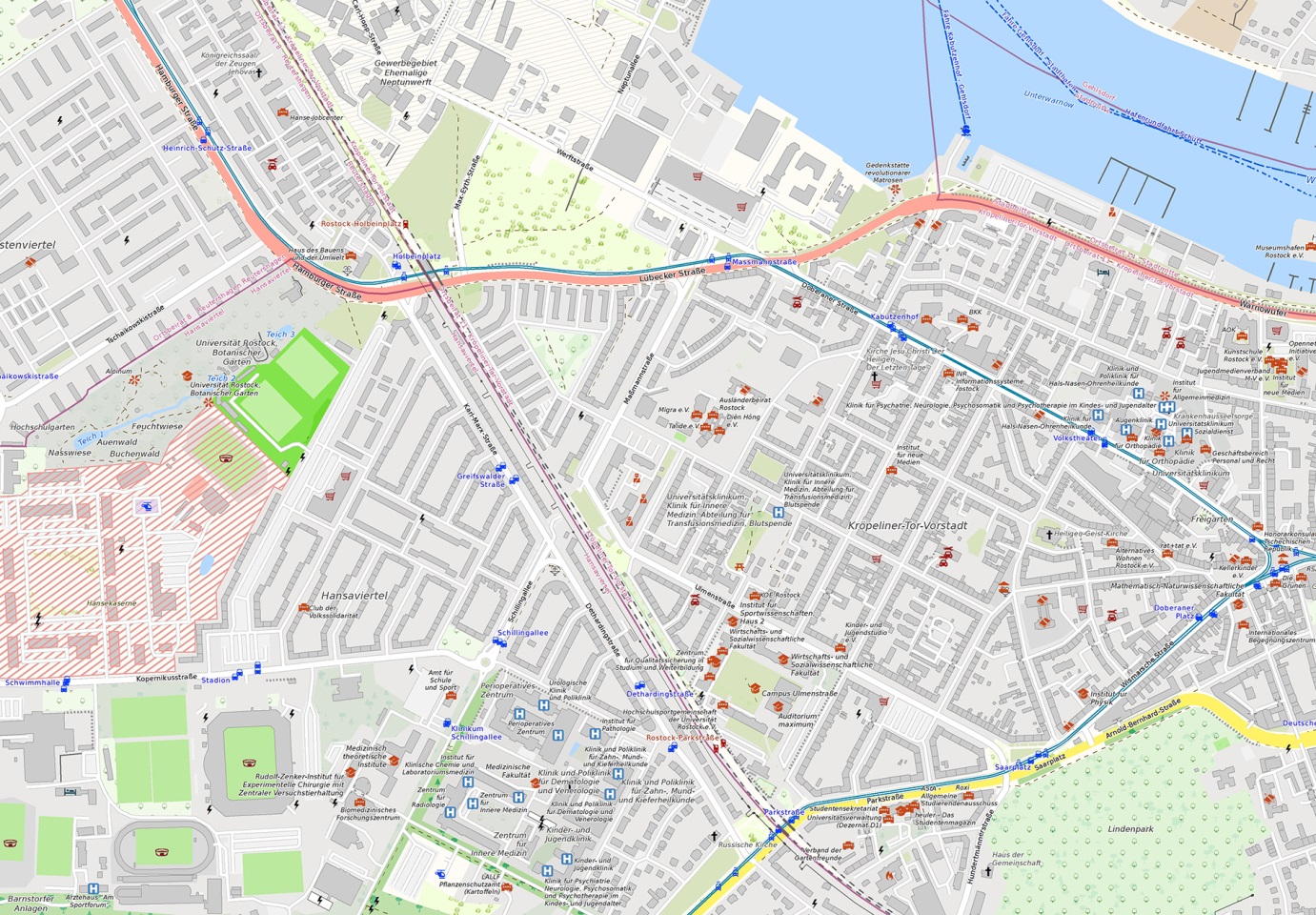
**Documentation of styles for OSMaxx  
standard visualizations using ArcGIS**



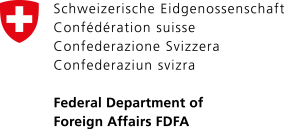
[](https://osmaxx.hsr.ch/)

**Style documentation for three map scales:**

**1 : 2 500 (M1)  
1 : 10 000 (M3)**

**1 : 25 000 (M4)**

State: 7/7/2016

[](https://www.staatskalender.admin.ch/navigate.html?dn=ou=Geodienste,ou=Krisenmanagement-Zentrum,ou=Staatssekretariat,ou=Eidg.%20Dep.%20fuer%20auswaertige%20Angelegenheiten,ou=bundesrat&cutname=cn=Stoessel%20Franz%20HDTHMH)

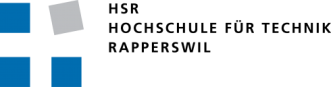
[FTFA STS Geoservices, Effingerstrasse 43, 3003 Bern](https://www.staatskalender.admin.ch/navigate.html?dn=ou=Geodienste,ou=Krisenmanagement-Zentrum,ou=Staatssekretariat,ou=Eidg.%20Dep.%20fuer%20auswaertige%20Angelegenheiten,ou=bundesrat&cutname=cn=Stoessel%20Franz%20HDTHMH)

**[](http://www.cde.unibe.ch/index_eng.html)Author of ArcGIS templates, styles and documentation:**

Ursula Gämperli Krauer  
University of Bern  
Center for Development and Environment  
Hallerstrasse 10  
3012 Bern

E-mail: [ulla.gaemperli@cde.unibe.ch](mailto:ulla.gaemperli@cde.unibe.ch)

<http://www.cde.unibe.ch/>

[](https://www.hsr.ch/Home.home.0.html?&L=4)Further information on OSMaxx project:

[Wiki GISpunktHSR](http://giswiki.hsr.ch/OSMaxx)  
[www.hsr.ch/geometalab](http://www.hsr.ch/geometalab)

**Content Page**

**[Preliminary information](#A)**[…………………………………………………………….](#A)**[4](#A)**

**[[](#B)](#A)[Point styles](#B)**[………………………………………………………………………………..](#B) **[7](#B)**

**[[](#C)](#B)[Line styles](#C)**[………………………………………………………………………………](#C) **[11](#C)**

**[[](#D)](#C)[Area styles](#D)**[……………………………………………………………………………….](#D)**[16](#D)**

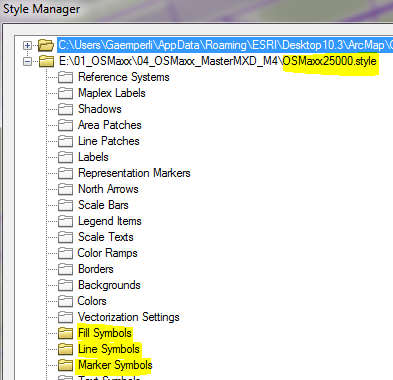
**Preliminary information**[(back to Contents)](#E) [(go to Point styles)](#B) [(go to Line styles)](#C) [(go to Area styles)](#D)

The present documentation provides general information about all symbols and styles for the OSMaxx ArcGIS application. These styles are more or less part of the MasterMXD templates for standard visualization and apply to three map scales:

* **MasterMXD\_M1\_scale\_2500.mxd** for scale **1 : 2 500 (M1)\***
* **MasterMXD\_M3\_scale\_10000.mxd** for scale **1 : 10 000 (M3)\***
* **MasterMXD\_M4\_scale\_25000.mxd** for scale **1 : 25 000 (M4)\*  
    
  \****Applied coordinate system: WGS\_1984\_Web\_Mercator / WKID: 3785 / Authority: EPSG*

Please always apply one of these three templates to map OSMaxx data excerpts in ArcGIS. This ensures that all relevant parameters are included (*e.g. symbol level hierarchy, label placement properties, data frame properties such as general reference scale, Maplex label activation, etc.*)*.* For OSMaxx standard visualization purposes, we do not recommend applying layer files (\*.lyr) taken from MasterMXD styles because parameters will get lost (*including e.g. label placement properties*)!

**Style Manager Files**

All relevant symbols and labels are included in specific Style Manager Files corresponding to specific scales:

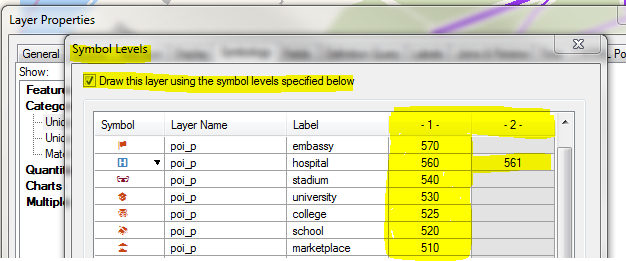
* For MasterMXD\_M1: 🡪 **OSMaxx2500.style**
* For MasterMXD\_M3: 🡪 **OSMaxx10000.style**
* For MasterMXD\_M4: 🡪 **OSMaxx25000.style**

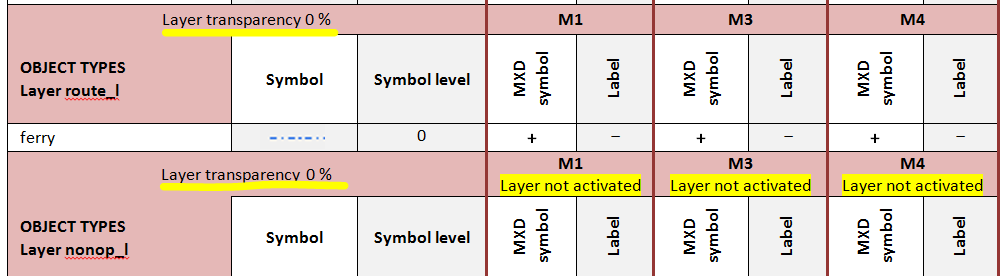
Each Style Manager File has the following folders and style contents:

* **Marker Symbols** (point styles)
* **Line Symbols** (line styles)
* **Fill Symbols** (area styles)

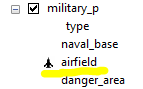
We recommend storing each Style Manager File together with the corresponding MasterMXD template.

**Symbol level hierarchy within layers**

Numbers for each symbol indicate the symbol level hierarchy within layers: The higher the number, the higher the object type within a specific layer (*see ArcGIS pop-up “Symbol Levels”, pictured right; example for M4 poi\_p layer*)*.* Be aware that the symbol level number for each symbol is the same for all three map scales. Some symbols contain two numbers, as they have been designed as multilevel symbols. This means they comprise, e.g. for point symbols, two symbol characters of \*OSMaxx\_v1.ttf font (*e.g. symbol “hospital”, pictured right*)*.***Attention:**We do not recommend changing level numbers, especially for objects on layer “road\_l”, as this complicates fine-tuning.  
*\*Download link for OSMaxx\_v1.ttf:* [*https://osmaxx.hsr.ch/pages/downloads/*](https://osmaxx.hsr.ch/pages/downloads/)

**Layer order and further layer information**

The layer order for the list documented here corresponds to the layer hierarchy in the ArcGIS table of contents.  
Further, the documentation provides you with information about layer transparency and whether or not a layer is activated on the relevant MasterMXD template.

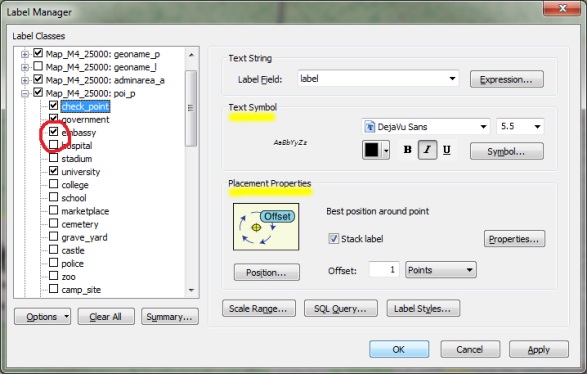
**Group layer “nur\_labeling”**

Features of the group layer “nur\_labeling” do not contain point, line, or area styles, i.e. the style default has been set to “no color”. Exception: “airfield“ on layer “military\_p” has a visible symbol (*pictured right*). Note that the present documentation does not cover any detailed description of the group layer “nur\_labeling”.

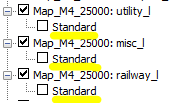
**Maplex Label Engine**

With the release of ArcGIS 10.1, the functionality of Maplex Label Engine is included in the core ArcGIS for Desktop software.

Provided that a MasterMXD template is in use as recommended for standard visualization of OSMaxx data excerpts, **Maplex Label Engine** will be activated by default. In its **Label Manager**, you can quickly obtain necessary information on labelling within layers.

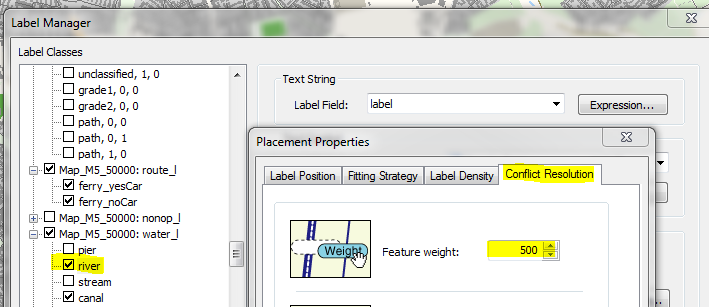
Under **Label Manager**, you will find a list of **Label Classes** containing object type names. They are the same as displayed in the corresponding MXD layer content table. **Label Manager** allows you to control whether a feature label is activated in your map or not *(see* *pop-up window pictured left; red circle in feature list shows unchecked box indicating that feature label is not activated).*

On the right-hand side of the **Label Manager** pop-up window, you can check the label **style and placement properties** for each featured object.

If all layer objects have been labelled and the labels are identical with regard to style and parameters, the label class has been set to “Standard” *(see image crop, at left).*

**Editing map feature labels using MasterMXD templates**

Each feature label has its own fitting, density, and conflict resolution parameters. If you wish to change the parameters of label classes, be aware that label placement may react sensitively to editing – especially where the density of featured map data is high (e.g. “poi\_p” and “road\_l” for map scale 1:2 500). Several parameters in the placement properties have been carefully fine-tuned based on activated labels and other objects. Performing edits on placement properties may result in unattractive label placement.

*Example: if road bridges stretch across rivers, river labels should not overwrite the bridge labels. This can be ensured using the special label placement parameter “feature weight”. In this example, the feature weight of river labels is set to 500 so that nearby features – in our case road bridges – are given priority. In this way, river labels will automatically move slightly away from the road bridge, preventing overlap.*

**Point styles** [(back to Contents)](#E) [(go to Line styles)](#C) [(go to Area styles)](#D)

All marker symbols (point symbols) applied to the MasterMXD templates are part of the Style Manager Files (described on p. 4 of this documentation) and are listed below. Further, all point symbols are linked to a true type symbol font, specifically created by [Geometa Lab HSR](https://www.ifs.hsr.ch/Geometa-Lab.12520.0.html), called \*OSMaxx\_v1.ttf; this means that the symbols will display correctly only if “OSMaxx\_v1.ttf” is installed in the Windows font folder. The table indicates whether or not a given object type is included by default in the different MasterMXD templates, and whether or not the respective objects are labelled by default.

\**Download link for OSMaxx\_v1.ttf:* [*https://osmaxx.hsr.ch/pages/downloads/*](https://osmaxx.hsr.ch/pages/downloads/)

**-> Table column “Part of MXD”:  
+** =object type is included in standard visualization at given map scale

**‒** = object type is not included in standard visualization at given map scale (but it is contained in the Style Manager File)

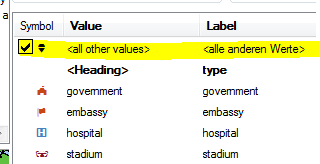
**-> Table Column “Size”:**The size for the symbol font icons is indicated in DTP points (desktop publishing points). One DTP point is 1/72 of an international inch (about 0.353 mm).

**-> Table column “Label”:**

**+** =object type is labelled in standard visualization at given map scale (see also Maplex Label Engine in ArcGIS)

**‒** = object type is not labelled in standard visualization at given map scale

**Default OSMaxx Marker**

The “default OSMaxx marker” symbol is used as a placeholder icon and is used by default for all features lacking a defined symbol (*referred to as “all other values” in ArcGIS; pictured right*).

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Layer transparency 0% | | | **M1** | | | **M3** | | | **M4** | | |
| OBJECT TYPES  Layer **poi\_p** | **Symbol** | **Symbol**  **Level** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** |
| camp\_site *(accommodation)* |  | 160 | **+** | 19 | ‒ | **+** | 17 | ‒ | **+** | 13 | ‒ |
| caravan\_site *(accommodation)* |  | 150 | **+** | 19 | ‒ | ‒ | 17 | ‒ | ‒ | 13 | ‒ |
| guest\_house *(accommodation*) |  | 140 | **+** | 18 | ‒ | ‒ | 16 | ‒ | ‒ | 12 | ‒ |
| hostel *(accommodation*) |  | 110 | **+** | 17 | ‒ | ‒ | 15 | ‒ | ‒ | 11 | ‒ |
| hotel *(accommodation)* |  | 500 | **+** | 18 | **+** | **+** | 16 | ‒ | ‒ | 12 | ‒ |
| motel *(accommodation)* |  | 100 | **+** | 16 | **+** | ‒ | 14 | ‒ | ‒ | 12 | ‒ |
| shelter *(accommodation)* |  | 80 | **+** | 15 | ‒ | ‒ | 13 | ‒ | ‒ | 9 | ‒ |
| cemetery *(amenity)* |  | 465 | **+** | 17 | ‒ | **+** | 15 | ‒ | **+** | 11 | ‒ |
| grave\_yard *(amenity)* |  | 465 | **+** | 17 | ‒ | **+** | 15 |  | **+** | 11 | ‒ |
| bar *(catering)* |  | 85 | **+** | 17 | ‒ |  | 15 | ‒ | ‒ | 11 | ‒ |
| cafe *(catering)* |  | 320 | **+** | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 10 | ‒ |
| fast food *(catering)* |  | 220 | **+** | 14 | ‒ | ‒ | 13 | ‒ | ‒ | 9 | ‒ |
| pub *(catering)* |  | 90 | **+** | 15 | ‒ | ‒ | 13 | ‒ | ‒ | 9 | ‒ |
| restaurant *(catering)* |  | 420 | **+** | 17 | **+** | ‒ | 15 | ‒ | ‒ | 11 | ‒ |
| OSMaxx\_marker *(default)* |  | 800/801 | **+** | 14 | ‒ | **+** | 14 | ‒ | **+** | 10 | ‒ |
| castel *(destination)* |  | 460 | **+** | 20 | **+** | **+** | 18 | **+** | **+** | 14 | **+** |
| historic *(destination)* |  | 355 | **+** | 14 | **+** | ‒ | 12 | ‒ | ‒ | 8 | ‒ |
| memorial *(destination)* |  | 350 | **+** | 16 | **+** | ‒ | 14 | ‒ | ‒ | 10 | ‒ |
| monument *(destination)* |  | 480 | **+** | 18 | **+** | **+** | 16 | ‒ | ‒ | 11 | ‒ |
| museum *(destination)* |  | 450 | **+** | 18 | **+** | **+** | 16 | **+** | ‒ | 12 | ‒ |
| picnic\_site *(destination)* |  | 10 | ‒ | 16 | ‒ | **+** | 14 | ‒ | ‒ | 10 | ‒ |
| ruin *(destination)* |  | 70 | **+** | 18 | **+** | ‒ | 16 | ‒ | ‒ | 12 | ‒ |
| viewpoint *(destination)* |  | 230 | **+** | 16 | **+** | **+** | 14 | **+** | ‒ | 10 | ‒ |
| wayside\_cross *(destination)* |  | 0 | ‒ | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 11 | ‒ |
| zoo *(destination)* |  | 310 | **+** | 17 | **+** | **+** | 15 | ‒ | **+** | 11 | ‒ |
| kindergarten *(education)* |  | 360 | **+** | 18 | ‒ | ‒ | 16 | ‒ | ‒ | 13 | ‒ |
| school *(education)* |  | 520 | **+** | 18 | **+** | **+** | 16 | ‒ | **+** | 12 | ‒ |
| college *(education)* |  | 525 | **+** | 18 | **+** | **+** | 16 | ‒ | **+** | 12 | ‒ |
| university *(education)* |  | 530 | **+** | 18 | **+** | **+** | 16 | **+** | **+** | 11 | **+** |
| clinic *(health)* |  | 470/371 | **+** | 16 | **+** | ‒ | 14/14 | ‒ | ‒ | 10/10 | ‒ |
| dentist *(health)* |  | 270 | **+** | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 10 | ‒ |
| doctor *(health)* |  | 380/381 | **+** | 17/17 | ‒ | ‒ | 15/15 | ‒ | ‒ | 11/11 | ‒ |
| hospital *(health)* |  | 560/561 | **+** | 16/17 | **+** | **+** | 14/15 | **+** | **+** | 11/11 | ‒ |
| pharmacy *(health)* |  | 210 | **+** | 21 | ‒ | ‒ | 19 | ‒ | ‒ | 15 | ‒ |
| cinema *(leisure)* |  | 240 | **+** | 1721 | ‒ | ‒ | 15 | ‒ | ‒ | 11 | ‒ |
| golf\_course *(leisure)* |  | 290 | **+** | 19 | ‒ | **+** | 17 | ‒ | **+** | 13 | **+** |
| stadium (leisure) |  | 540 | **+** | 21 | **+** | **+** | 19 | ‒ | **+** | 1 | ‒ |
| theater *(leisure)* |  | 280 | **+** | 18 | **+** | ‒ | 16 | ‒ | ‒ | 12 | ‒ |
| comm\_tower *(misc)* |  | 300 | **+** | 19 | ‒ | **+** | 17 | ‒ | **+** | 13 | ‒ |
| drinking\_water *(misc)* |  | 335 | **+** | 18 | ‒ | **+** | 16 |  | ‒ | 12 |  |
| fountain *(misc)* |  | 330 | **+** | 17 | ‒ | **+** | 15 | ‒ | ‒ | 11 | ‒ |
| hunting\_stand *(misc)* |  | 20 | ‒ | 17 | ‒ | ‒ | 15 | ‒ | ‒ | 11 | ‒ |
| lighthouse *(misc)* |  | 200 | **+** | 19 | ‒ | **+** | 17 | ‒ | **+** | 13 | ‒ |
| tower *(misc)* |  | 190 | **+** | 19 | ‒ | ‒ | 17 | ‒ | ‒ | 13 | ‒ |
| observation\_ tower *(misc*) |  | 0 | ‒ | 18 | ‒ | ‒ | 16 | ‒ | ‒ | 12 | ‒ |
| water\_tower *(misc)* |  | 250 | **+** | 19 | ‒ | **+** | 17 | ‒ | ‒ | 13 | ‒ |
| water\_well *(misc)* |  | 260 | **+** | 18 | ‒ | **+** | 16 | ‒ | ‒ | 12 | ‒ |
| windmill *(misc)* |  | 180 | **+** | 18 | ‒ | **+** | 16 | ‒ | ‒ | 12 | ‒ |
| atm *(money)* |  | 170 | **+** | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 10 | ‒ |
| bank *(money)* |  | 490 | **+** | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 10 | ‒ |
| money\_exchange *(money)* |  | 130 | **+** | 18 | ‒ | ‒ | 16 | ‒ | ‒ | 12 | ‒ |
| checkpoint *(public)* |  | 610/611 | **+** | 15/15 | **+** | **+** | 13/13 | **+** | **+** | 9/9 | **+** |
| courthouse *(public)* |  | 550 | **+** | 17 | **+** | ‒ | 15 | ‒ | ‒ | 11 | ‒ |
| embassy *(public)* |  | 570 | **+** | 17 | **+** | **+** | 15 | **+** | **+** | 11 | **+** |
| emergency *(public)* |  | 435/436 | **+** | 14 | ‒ |  | 15 |  | ‒ | 11 | ‒ |
| fire\_station *(public)* |  | 440 | **+** | 16 | ‒ | **+** | 14 | ‒ | ‒ | 10 | ‒ |
| government *(public)* |  | 600 | **+** | 18 | **+** | **+** | 16 | **+** | **+** | 12 | **+** |
| library *(public)* |  | 340 | **+** | 16 | **+** | ‒ | 14 | ‒ | ‒ | 11 | ‒ |
| marketplace *(public)* |  | 510 | **+** | 18 | **+** | **+** | 16 | ‒ | **+** | 12 | ‒ |
| police *(public)* |  | 410 | **+** | 16 | ‒ | **+** | 14 | ‒ | **+** | 10 | ‒ |
| poste \_office *(public)* |  | 400/401 | **+** | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 10 | ‒ |
| prison *(public)* |  | 370 | **+** | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 10 | ‒ |
| public\_ building *(public)* |  | 590 | **+** | 18 | **+** | **+** | 16 | **+** | ‒ | 11 | ‒ |
| toilet *(public)* |  | 0 | ‒ | 18 | ‒ | ‒ | 16 | ‒ | ‒ | 13 | ‒ |
| townhall *(public)* |  | 580 | **+** | 17 | **+** | **+** | 15 | ‒ | ‒ | 11 | ‒ |
| car *(shop)* |  | 60 | **+** | 17 | ‒ | ‒ | 15 | ‒ | ‒ | 11 | ‒ |
| car\_rental *(shop)* |  | 120 | **+** | 20 | ‒ | ‒ | 18 | ‒ | ‒ | 14 | ‒ |
| car\_repair *(shop)* |  | 390 | **+** | 19 | ‒ | **+** | 17 | ‒ | ‒ | 13 | ‒ |
| kiosk *(shop)* |  | 50 | **+** | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 10 | ‒ |
| laundry *(shop)* |  | 40 | **+** | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 10 | ‒ |
| supermarket *(shop)* |  | 430 | **+** | 17 | **+** | **+** | 15 | ‒ | ‒ | 11 | ‒ |
| information *(tourist)* |  | 65/66 | **+** | 17/18 | ‒ | ‒ | 15/16 | ‒ | ‒ | 12/13 | ‒ |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Layer transparency 0% | | | **M1** | | | **M3** | | | **M4** | | |
| OBJECT TYPES  Layer **pow\_p** | **Symbol** | **Symbol**  **Level** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** |
| buddhist |  | 80 | **+** | 17 | **+** | **+** | 15 | **+** | **+** | 12 | ‒ |
| christian |  | 70 | **+** | 16 | **+** | **+** | 14 | **+** | **+** | 11 | ‒ |
| hindu |  | 60 | **+** | 18 | **+** | **+** | 16 | **+** | **+** | 12 | ‒ |
| jewish |  | 50 | **+** | 18 | **+** | **+** | 16 | **+** | **+** | 12 | ‒ |
| muslim |  | 40 | **+** | 17 | **+** | **+** | 15 | **+** | **+** | 12 | ‒ |
| sikh |  | 30 | **+** | 17 | **+** | **+** | 15 | **+** | **+** | 11 | ‒ |
| place of worship |  | 20 | **+** | 17 | **+** | **+** | 15 | **+** | **+** | 12 | ‒ |
| shinto |  | 10 | **+** | 17 | **+** | **+** | 15 | **+** | **+** | 12 | ‒ |
| taoist |  | 0 | **+** | 17 | **+** | **+** | 15 | **+** | **+** | 12 | ‒ |
| Layer transparency 0% | | | **M1** | | | **M3** | | | **M4** | | |
| OBJECT TYPES  Layer **transport\_p** | **Symbol** | **Symbol**  **Level** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** |
| aeroport |  | 90/91 | **+** | 18/18 | **+** | **+** | 16/16 | **+** | **+** | 13/13 | **+** |
| airfield |  | 80 | **+** | 17 | ‒ | **+** | 15 | ‒ | **+** | 13 | ‒ |
| helipad |  | 70 | **+** | 17 | ‒ | **+** | 15 | ‒ | **+** | 12 | ‒ |
| railway\_station |  | 60/61 | **+** | 16/17 | **+** | **+** | 15/16 | **+** | **+** | 12 | **+** |
| bus\_station |  | 50/51 | **+** | 15/16 | **+** | **+** | 14/15 | **+** | **+** | 12 | **+** |
| railway\_halt |  | 40 | **+** | 15 | **+** | **+** | 13 | **+** | **+** | 10 | ‒ |
| bus\_stop |  | 30 | **+** | 16 | **+** | **+** | 12 | **+** | **+** | 10 | ‒ |
| tram\_stop |  | 20 | **+** | 17 | **+** | + | 14 | **+** | ‒ | 10 | ‒ |
| ferry\_terminal |  | 10 | **+** | 19 | **+** | **+** | 17 | **+** | **+** | 13 | **+** |
| taxi\_stand |  | 0 | ‒ | 16 | ‒ | ‒ | 14 | ‒ | ‒ | 11 | ‒ |
| Layer transparency 0% | | | **M1** | | | **M3** | | | **M4**  Layer not activated | | |
| OBJECT TYPES  Layer **traffic\_p** | **Symbol** | **Symbol**  **Level** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** |
| level\_crossing |  | 90 | ‒ | 13 | ‒ | ‒ | 11 | ‒ | ‒ | 8 | ‒ |
| fuel |  | 60 | ‒ | 17 | ‒ | ‒ | 15 | ‒ | ‒ | 11 | ‒ |
| multi\_storey  *(all kinds of multi-storey facilities)* |  | 30 | **+** | 18 | ‒ | **+** | 16 | ‒ | ‒ | 13 | ‒ |
| gate *(all kinds of gates)* |  | 10 | **+** | 18 | ‒ | ‒ | 16 | ‒ | ‒ | 9 | ‒ |
| parking *(all kinds of parking areas)* |  | 0 | **+** | 14 | ‒ | **+** | 12 | ‒ | ‒ | 11 | ‒ |
| surface *(all kinds of surface parking areas)* |  | 0 | **+** | 14 | ‒ | **+** | 12 | ‒ | ‒ | 11 | ‒ |
| Layer transparency 0% | | | **M1** | | | **M3** | | | **M4** | | |
| OBJECT TYPES  Layer **utility\_p** | **Symbol** | **Symbol**  **Level** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** |
| plant |  | 120/121 | **+** | 16/16 | ‒ | **+** | 14/14 | **+** | **+** | 12/12 | **+** |
| nuclear |  | 100 | **+** | 20 | ‒ | **+** | 16 | **+** | **+** | 14 | **+** |
| fossil |  | 80 | **+** | 20 | ‒ | **+** | 17 | **+** | **+** | 15 | **+** |
| hydro |  | 60 | **+** | 19 | ‒ | **+** | 16 | **+** | **+** | 14 | **+** |
| wind |  | 40 | **+** | 22 | ‒ | **+** | 18 | **+** | **+** | 14 | ‒ |
| solar |  | 20 | **+** | 17 | ‒ | **+** | 15 | **+** | ‒ | 13 | ‒ |
| substation |  | 10 | **+** | 17 | ‒ | **+** | 15 | ‒ | **+** | 12 | ‒ |
| pole *(*pole*: combined with line and minor\_line of layer utility\_l)* |  | 0 | **+** | 17 | ‒ | **+** | 15 | ‒ | **+** | 11 | ‒ |
| tower *(*tower*: combined with line and minor\_line of layer utility\_l)* |  | 0 | **+** | 17 | ‒ | **+** | 15 | ‒ | **+** | 11 | ‒ |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Layer transparency 0% | | | **M1** | | | **M3** | | | **M4** | | |
| OBJECT TYPES  Layer **water\_p** | **Symbol** | **Symbol**  **Level** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** |
| dam |  | 90 | **+** | 20 | **+** | **+** | 18 | **+** | **+** | 14 | **+** |
| waterfall |  | 60 | **+** | 19 | **+** | **+** | 17 | **+** | **+** | 12 | **+** |
| spring |  | 30 | **+** | 19 | ‒ | **+** | 17 | ‒ | **+** | 13 | ‒ |
| reservoir\_covered |  | 0 | **+** | 18 | ‒ | **+** | 16 | ‒ | **+** | 11 | ‒ |
| Layer transparency 0% | | | **M1** | | | **M3** | | | **M4** | | |
| OBJECT TYPES  Layer **natural\_p** | **Symbol** | **Symbol**  **Level** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** | **Part of MXD** | **Size** | **Label** |
| volcano |  | 120 | **+** | 20 | **+** | **+** | 18 | **+** | **+** | 14 | **+** |
| peak |  | 100 | **+** | 16 | **+** | **+** | 14 | **+** | **+** | 11 | **+** |
| cave\_entrance |  | 80 | **+** | 18 | **+** | **+** | 16 | **+** | **+** | 12 | **+** |
| rock |  | 60 | **+** | 18 | **+** | **+** | 16 | **+** | **+** | 12 | ‒ |
| stone |  | 40 | **+** | 18 | ‒ | ‒ | 16 | ‒ | ‒ | 12 | ‒ |
| sinkhole |  | 0 | **+** | 18 | ‒ | ‒ | 16 | ‒ | ‒ | 12 | ‒ |
| tree |  | 0 | **+** | 20 | ‒ | ‒ | 18 | ‒ | ‒ | 13 | ‒ |

[Go to line styles](#C)

**Line styles**

[(back to Contents)](#E) [(go to Point styles)](#B) [(go to Area styles)](#D)

All line symbols applied to the MasterMXD templates are part of the Style Manager Files (described on p. 4 of this documentation) and are listed below. The table indicates whether or not an object type is included by default in the different MasterMXD templates, and whether or not the respective objects are labelled by default.

**-> Table Column “Part of MXD”:  
+** =object type is included in standard visualization at given map scale

**‒** = object type is not included in standard visualization at given map scale (but it is contained in the Style Manager File)

**-> Table Column “Label”:**

**+ =** object type is labelled in standard visualization at given map scale (see also Maplex Label Engine in ArcGIS)

**‒** = object type is not labelled in standard visualization at given map scale

**Special symbols**

For map scale M1, two marker symbols have been combined with lines of layer road\_l. Both combined styles are contained in the Style Manager Files. This concerns the object types “cycleway” and “bridleway”.

Symbol for cycleway at map scale M1:  (bicycle: Symbol font OSMaxx.ttf / Unicode: 57429)

Symbol for bridleway at map scale M1: (rider: Symbol font OSMaxx.ttf / Unicode: 57436)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Layer transparency 40 % | | | **M1** | | **M3** | | **M4** | |
| OBJECT TYPES  Layer **boundary\_l** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| national |  | 50/51 | **+** | *Labelled by layer “****adminarea\_a”*** *(part of group layer “nur\_labeling”)* | **+** | *Labelled by layer “****adminarea\_a****” (part of group layer “nur\_labeling”)* | **+** | *Labelled by layer “****adminarea\_a”*** *(part of group layer “nur\_labeling”)* |
| admin\_level3 |  | 40/41 | **+** | **+** | **+** |
| admin\_level4 |  | 40/41 | **+** | **+** | **+** |
| admin\_level5 |  | 40/41 | **+** | **+** | **+** |
| admin\_level6 |  | 30 | **+** | **+** | **+** |
| admin\_level7 |  | 30 | **+** | **+** | **+** |
| admin\_level8 |  | 30 | **+** | **+** | **+** |
| admin\_level9 |  | 20 | **+** | **+** | + *set no colour* |
| admin\_level10 |  | 20 | **+** | **+** | + *set no colour* |
| admin\_level11 |  | 20 | **+** | + *set no colour* | + *set no colour* |
| national\_park |  | 18/19 | **+** | **+** | **+** |
| protected\_area |  | 10/11 | **+** | **+** | **+** |
| Layer transparency 0 % | | | **M1** | | **M3** | | **M4** | |
| OBJECT TYPES  Layer **coastlines** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| coastlines |  | No level | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| Layer transparency 0 % | | | **M1** | | **M3** | | **M4** | |
| OBJECT TYPES  Layer **transport\_\_l** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| runway |  | 50 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| taxiway |  | 49 | **+** | ‒ | **+** | ‒ | **+** | ‒ |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Layer transparency 0 % | | | **M1** | | **M3** | | **M4** | |
| OBJECT TYPES  Layer **utility\_\_l** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| line |  | 20 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| pipeline |  | 10/10 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| minor\_line |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| Layer transparency 0 % | | | **M1** | | **M3** | | **M4** | |
| OBJECT TYPES  Layer **misc\_\_l** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| city\_wall |  | 50 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| wall |  | 40 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| barrier |  | 30 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| hedge |  | 20 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| Layer transparency 0 % | | | **M1** | | **M3** | | **M4** | |
| OBJECT TYPES  Layer **railway\_\_l** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| rail |  | 30/31 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| rail, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| rail, bridge |  | 60/61/62 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| light\_rail |  | 10 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| light\_rail, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| light\_rail, bridge |  | 50/51 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| narrow\_gauge |  | 20/21 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| narrow\_gauge, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| narrow\_gauge, bridge |  | 50/51/52 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| subway |  | 10 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| subway, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| subway, bridge |  | 50/51 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| tram |  | 10 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| tram, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| tram, bridge |  | 50/51 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| monorail |  | 20/21 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| monorail, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| monorail, bridge |  | 50/51/52 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| funicular |  | 20/21 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| funicular, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| funicular, bridge |  | 50/51/52 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| cable\_car |  | 70/71 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| gondola |  | 40/41 | **+** | ‒ | **+** | ‒ | **+** |  |
| goods |  | 40/41 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| chair\_lift |  | 38/39 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| drag\_lift |  | 10/11 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| drag\_lift, bridge |  | 35/36/37 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| platter |  | 10/11 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| t-bar |  | 10/11 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| Layer transparency 0 % | | | **M1** | | **M3** | | **M4** | |
| OBJECT TYPES  Layer **road\_\_l** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| trunk |  | 100 | **+** | **+** | **+** | **+** | **+** | **+** |
| trunk, tunnel |  | 0 | **+** | **+** | **+** | **+** | **+** | ‒ |
| trunk, bridge |  | 154/155 | **+** | **+** | **+** | **+** | **+** | ‒ |
| trunk\_link |  | 63 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| trunk\_link, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| trunk\_link, bridge |  | 152/153 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| motorway |  | 90 | **+** | **+** | **+** | **+** | **+** | **+** |
| motorway, tunnel |  | 0 | **+** | **+** | **+** | **+** | **+** | ‒ |
| motorway, bridge |  | 150/151 | **+** | **+** | **+** | **+** | **+** | ‒ |
| motorway\_link |  | 62 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| motorway\_link, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| motorway\_link, bridge |  | 148/149 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| primary |  | 80 | **+** | **+** | **+** | **+** | **+** | **+** |
| primary, tunnel |  | 0 | **+** | **+** | **+** | **+** | **+** | ‒ |
| primary, bridge |  | 140/141 | **+** | **+** | **+** | **+** | **+** | ‒ |
| primary\_link |  | 61 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| primary\_link, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| primary\_link, bridge |  | 138/139 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| secondary |  | 70 | **+** | **+** | **+** | **+** | **+** | **+** |
| secondary, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| secondary, bridge |  | 130/131 | **+** | ‒ | **+** | **+** | **+** | ‒ |
| secondary\_link |  | 60 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| secondary\_link, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| secondary\_link, bridge |  | 83/84 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| tertiary |  | 65/66 | **+** | **+** | **+** | **+** | **+** | **+** |
| tertiary, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| tertiary, bridge |  | 120/121 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| service |  | 50/51 | **+** | **+** | **+** | ‒ | ‒ | ‒ |
| service, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| service, bridge |  | 120/121 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| unclassified |  | 50/51 | **+** | **+** | **+** | ‒ | **+** | **+** |
| unclassified, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| unclassified, bridge |  | 118/119 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| roundabout |  | 50/51 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| roundabout, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| roundabout, bridge |  | 118/119 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| residential |  | 50/51 | **+** | **+** | **+** | ‒ | **+** | ‒ |
| residential, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| residential, bridge |  | 118/119 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| living\_street |  | 50/51 | **+** | **+** | ‒ | ‒ | ‒ | ‒ |
| living\_street, tunnel |  | 0 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| living\_street, bridge |  | 118/119 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| track |  | 20 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| track, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| track, bridge |  | 80/81 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| cycleway |  | 30/31 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| cycleway, tunnel |  | 0 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| cycleway, bridge |  | 158/159 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| bridleway |  | 40/41 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| bridleway, tunnel |  | 0 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| bridleway, bridge |  | 156/157 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| footway |  | 10 | **+** | **+** | ‒ | ‒ | ‒ | ‒ |
| footway, tunnel |  | 0 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| footway, bridge |  | 81/82 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| steps |  | 30/31 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| steps, tunnel |  | 0/1 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| steps, bridge |  | 52/53 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| grade1 |  | 20 | **+** | **+** | **+** | ‒ | **+** | ‒ |
| grade2 |  | 10 | **+** | **+** | **+** | ‒ | **+** | ‒ |
| grade3 |  | 10 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| grade4 |  | 10 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| grade5 |  | 10 | **+** | ‒ | **+** | ‒ | ‒ | ‒ |
| pedestrian | *no colour* | 0 | **+** | **+** | ‒ | ‒ | ‒ | ‒ |
| pedestrian, bridge | *no colour* | 0 | **+** | ‒ | ‒ | ‒ | ‒ | ‒ |
| path |  | 0 | **+** | **+** | **+** | ‒ | **+** | ‒ |
| path, tunnel |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| path, bridge |  | 81/82 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| Layer transparency 0 % | | | **M1** | | **M3** | | **M4** | |
| OBJECT TYPES  Layer **route\_l** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| ferry |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| Layer transparency 0 % | | | **M1**  Layer not activated | | **M3**  Layer not activated | | **M4**  Layer not activated | |
| OBJECT TYPES  Layer **nonop\_l** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| railway\_Construction |  | 600/601 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| railway\_Planned |  | 500/501 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| railway\_Disused |  | 450 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| railway\_Abandoned |  | 440 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| highway\_Construction |  | 400/401 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| highway\_Planned |  | 300/301 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| highway\_Disused |  | 200/201/202 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| highway\_Abandoned |  | 100/101/102 | **+** | ‒ | **+** | ‒ | **+** | ‒ |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Layer transparency 0 % | | | **M1** | | **M3** | | **M4** | |
| OBJECT TYPES  Layer **water\_l** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |
| pier |  | 50 | **+** | ‒ | **+** | ‒ | **+** | ‒ |
| river |  | 40 | **+** | **+** | **+** | **+** | **+** | **+** |
| stream |  | 30 | **+** | **+** | **+** | **+** | **+** | **+** |
| canal |  | 20 | **+** | **+** | **+** | **+** | **+** | **+** |
| drain |  | 10 | **+** | ‒ | **+** | ‒ | **+** | ‒ |

[Go to area styles](#D)

**Area styles**

[(back to Contents)](#E) [(go to Point styles)](#B) [(go to Line styles)](#C)

All area symbols (polygon symbols) applied to the MasterMXD templates are part of the Style Manager Files (described on p. 4 of this documentation) and are listed below. The table indicates whether or not an object type is included by default in the different MasterMXD templates, and whether or not the respective objects are labelled by default.

**-> Table Column “Part of MXD”:  
+** =symbol resp. object type is included in standard visualization at given map scale

**‒** = symbol resp. object type is not included in standard visualization at given map scale (but it is contained in the Style Manager File)

**-> Table Column “Label”:**

**+ =** object is labelled in standard visualization at given map scale (see also Maplex Label Engine in ArcGIS)

**‒** = object is not labelled in standard visualization at given map scale

**-> Table Column “Note”:**Some area styles of layer landuse\_l and layer natural\_l are multilayer styles. Their background colour layers are combined with a character marker either from the OSMaxx\_v1.ttf Symbol font or from one of the installed ESRI symbol fonts. The font name and other parameters for the applied symbol are indicated in this column.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4**  Layer not activated | | **Note** |
| OBJECT TYPES  Layer **pow\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| pow  *buddhist; christian; hindu; jewish; muslim; place\_of\_worship; shinto; sikh; taoist* |  | No level | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4** | | **Note** |
| OBJECT TYPES  Layer **transport\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| transport  *apron; ferry\_terminal; helipad; runway; taxiway; airfield; aeroway* |  | No level | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4**  Layer not activated | | **Note** |
| OBJECT TYPES  Layer **traffic\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| traffic  *all kinds of parking facilities (incl. multistorey)* |  | No level | **+** | ‒ | **+** |  | **+** | ‒ |  |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4** | | **Note** |
| OBJECT TYPES  Layer **water\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| dam |  | 40 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| pier |  | 30 | **+** | **+** | **+** | ‒ | **+** | ‒ |  |
| weir |  | 30 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| riverbank |  | 20 | **+** | **+** | **+** | ‒ | **+** | ‒ |  |
| water |  | 10 | **+** | **+** | **+** | **+** | **+** | **+** |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4** | | **Note** |
| OBJECT TYPES  Layer **military\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| naval\_base |  | 50 | **+** | **+\*** | **+** | **+\*** | **+** | **+\*** | *\*Labelled by layer “military\_p” , Group layer “nur labeling”* |
| range |  | 40 | **+** | ‒\* | **+** | ‒\* | **+** | ‒\* | *\*Labelled by layer “military\_p” , Group layer “nur labeling””* |
| bunker |  | 30 | **+** | ‒\* | **+** | ‒\* | **+** | ‒\* | *\*Labelled by layer “military\_p” , Group layer “nur labeling”* |
| barracks |  | 20 | **+** | **+\*** | **+** | **+\*** | **+** | **+\*** | *\*Labelled by layer “military\_p” , Group layer “nur labeling”* |
| danger\_area |  | 10 | **+** | ‒\* | **+** | ‒\* | **+** | ‒\* | *\*Labelled by layer “military\_p” , Group layer “nur labeling”* |
| airfield\_military |  | 0 | **+** | **+\*** | **+** | **+\*** | **+** | ‒\* | *\*Labelled by layer “military\_p” , Group layer “nur labeling”* |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4** | | **Note** |
| **OBJECT TYPES**  **Layer utility\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| utilitiy  *plant; substation; nuclear; fossil; hydro; solar; power;tower* |  | No level | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4** | | **Note** |
| OBJECT TYPES  Layer **building\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| building  *no differentiation into categories* |  | No level | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| Layer transparency 20% | | | **M1** | | **M3** | | **M4** | | **Note** |
| OBJECT TYPES  Layer **poi\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| soccer\_pitch |  | 120 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| swimming\_pool |  | 120 | **+** | **+** | **+** | ‒ | **+** | ‒ |  |
| tennis\_pitch |  | 120 | **+** | **+** | **+** | ‒ | **+** | ‒ |  |
| sports\_centre |  | 90 | **+** | **+** | **+** | ‒ | **+** | ‒ |  |
| cemetery |  | 60 | **+** | **+** | **+** | ‒ | **+** | ‒ |  |
| grave\_yard |  | 60 | **+** | **+** | **+** | ‒ | **+** | ‒ |  |
| government |  | 30 | ‒ | ‒ | **+** | **+** | **+** | ‒ |  |
| marketplace |  | 30 | ‒ | ‒ | **+** | **+** | **+** | ‒ |  |
| stadium |  | 30 | ‒ | ‒ | **+** | **+** | **+** | **+** |  |
| hospital |  | 30 | ‒ | ‒ | **+** | ‒ | **+** | **+** |  |
| school |  | 30 | ‒ | ‒ | **+** | **+** | **+** | ‒ |  |
| university |  | 30 | ‒ | ‒ | **+** | ‒ | **+** | ‒ |  |
| camp\_site |  | 0 | **+** | **+** | **+** | **+** | **+** | ‒ |  |
| caravan\_site |  | 0 | **+** | **+** | **+** | **+** | **+** | ‒ |  |
| golf\_course |  | 0 | **+** | **+** | **+** | **+** | **+** | ‒ |  |
| zoo |  | 0 | **+** | ‒ | **+** | **+** | **+** | **+** |  |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4** | | **Note** |
| OBJECT TYPES  Layer **landuse\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| military |  | 120 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| nature\_reserve |  | 110 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| greenhouse |  | 100 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| quarry |  | 90/91 | **+** | ‒ | **+** | ‒ | **+** | ‒ | ***Character Marker****: OSMaxx\_v1/ Unicode: 57435, RGB: 0/0/0, Size: M1/M3: 16, M4:8, grid* |
| reservoir |  | 80 | **+** | **+** | **+** | ‒ | **+** | ‒ |  |
| landfill |  | 70/71 | **+** | **+** | **+** | ‒ | **+** | **+** | ***Character Marker****: OSMaxx\_v1/ Unicode: 57433, RGB: 0/0/0, Size: M1: 25, M3: 13, M4:9, grid* |
| park |  | 60(/61) | **+** | **+** | **+** | **+** | **+** | ‒ | ***Character Marker****: ESRI US Forestry 2/ Unicode: 200, RGB: 38/115/0, Size: M1:11, M3:6, grid* |
| recreation\_ground |  | 60(/61) | **+** | **+** | **+** | **+** | **+** | ‒ | ***Character Marker****: ESRI US Forestry 2/ Unicode: 200, RGB:. 38/115/0, Size: M1:11, M3:6, grid* |
| railway |  | 50 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| industrial |  | 40 | **+** | **+** | **+** | **+** | **+** | **+** |  |
| orchard |  | 30/31 | **+** | ‒ | **+** | ‒ | **+** | ‒ | ***Character Marker****: ESRI US Forestry 2/ Unicode: 200, RGB: 189/66/0, Size M3: 8, M4: 5, grid* |
| plant \_nursery |  | 20(/21/22) | **+** | ‒ | **+** | ‒ | **+** | ‒ | ***Character Marker****: ESRI Caves 1 Unicode 194 size 20, & ESRI US Forestry 2 Unicode 63, RGB: 115/76/0, Size: M1: 30/9 M3: 20/6, random* |
| allotments |  | 20(/21) | **+** | **+** | **+** | **+** | **+** | ‒ | ***Character Marker****: ESRI SDS 2.001/ Unicode: 88, RGB: 247/145/0, Size: M: 6, M3/M4: 4, random* |
| vineyard |  | 20(/21) | **+** | ‒ | **+** | ‒ | **+** | ‒ | ***Character Marker****: ESRI SDS 1.95 2/ Unicode: 39, RGB: 130/100/0, Size: M1: 8, M3: 5, grid* |
| farm |  | 20 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| farmyard |  | 20 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| grass |  | 10 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| meadow |  | 10 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| forest |  | 0/1/2 | **+** | **+** | **+** | **+** | **+** | **+** | ***Character Marker****: ESRI Enviro Hazard Analysis/ Unicode: 108 & 111, RGB: 0/0/0, Size: M1: 9, M3: 7, M4: 4, random* |
| residential |  | 0 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4** | | **Note** |
| OBJECT TYPES  Layer **natural\_a** | **Symbol** | **Symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| moor |  | 100/101 | **+** | **+** | **+** | **+** | **+** | **+** |  |
| wetland |  | 100/101 | **+** | **+** | **+** | **+** | **+** | **+** |  |
| mud |  | 100/101 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| glacier |  | 90 | **+** | **+** | **+** | **+** | **+** | **+** |  |
| bare\_rock |  | 80/81 | **+** | ‒ | **+** | ‒ | **+** | ‒ | ***Character Marker****: ESRI Caves 1, Unicode: 205, RGB: 110/110/110, Size: M1: 10, M3:7, M4: 5, random* |
| cliff |  | 70/71 | **+** | **+** | **+** | **+** | **+** | ‒ | ***Character Marker****: ESRI Caves 1, Unicode: 220, RGB: 110/110/110, Size: M1: 5, M3: 4, M4: 3, random* |
| scree |  | 60/61 | **+** | ‒ | **+** | ‒ | **+** | ‒ | ***Simple Marker Symbol:*** *circle, RGB: 156/156/156, Size: M1: 1,M3/M4: 0.5, random* |
| heath |  | 50/51 | **+** | **+** | **+** | **+** | **+** | **+** | ***Character Marker****: ESRI Caves 1, Unicode: 224 RGB: 115/101/72, Size: M1: 8, M3: 7, M4: 3, random* |
| scrub |  | 40/41 | **+** | ‒ | **+** | ‒ | **+** | ‒ | ***Character Marker****: ESRI US Forestry 2/ Unicode: 66, RGB: 189/66/0, Size: M1: 8, M3: 7, M4: 4, random* |
| beach |  | 30 | **+** | **+** | **+** | **+** | **+** | ‒ |  |
| sand |  | 30 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| natural |  | 20 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| fell |  | 10 | **+** | **+** | **+** | **+** | **+** | ‒ |  |
| grassland |  | 10 | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| wood |  | 0/1/2 | **+** | **+** | **+** | **+** | **+** | **+** | ***Character Marker****: ESRI Enviro Hazard Analysis/ Unicode: 108 & 111, RGB: 0/0/0, Size: M1: 9, M3: 7, M4: 4, random* |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4** | | **Note** |
| OBJECT TYPES  Layer **land\_polygon** | **Symbol** | **Hierarchical number(s) of symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** |  |
| undefined land |  | No level | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |
| Layer transparency 0% | | | **M1** | | **M3** | | **M4** | | **Note** |
| OBJECT TYPES  Layer  **water\_polygon** | **Symbol** | **Hierarchical number(s) of symbol level** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | **Part of MXD** | **Label** | *Same colour as background colour of data frame (RGB 255/252/245)* |
| undefined water  *generally oceans* |  | No level | **+** | ‒ | **+** | ‒ | **+** | ‒ |  |