



MONTANA

Department of Transportation

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BIM 360 Design File Naming

NAMING STANDARDS

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OVERVIEW

This document describes the details of the ACC – Autodesk Docs (BIM 360) document naming standards.

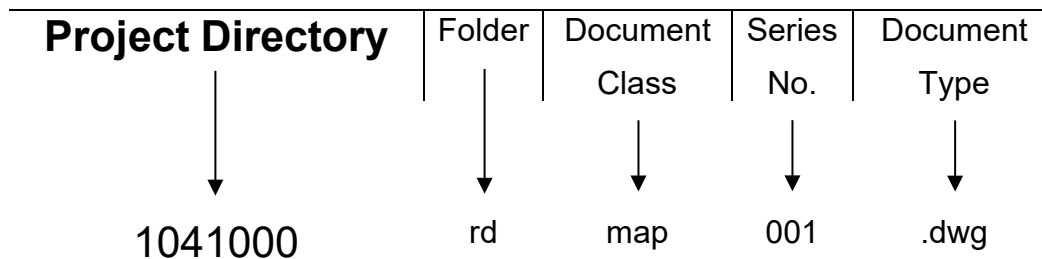
NAMING STANDARDS

NAMING OF DESIGN FILES

1. Design files saved in ACC - Autodesk Docs (BIM 360) are required to follow the naming conventions established for PCMS. This is to ensure successful transfer of design files to PCMS at project closeout.

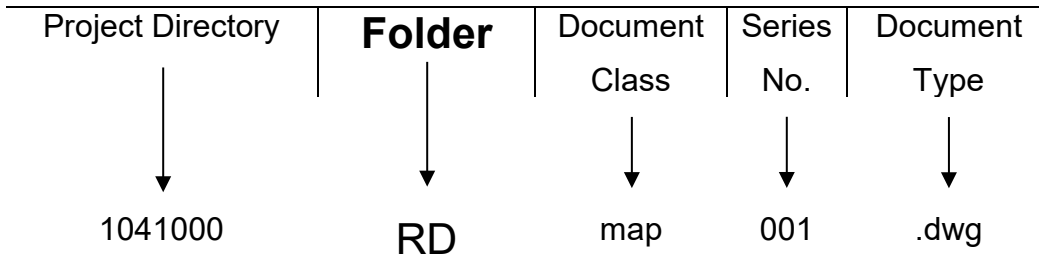
***Note: PCMS Phase 2 is currently under development and will include an enhancement to increase the flexibility of the naming standard.*

2. Project Directory - **1041000**rdmap001.dwg



| Project Number | | | | |
|----------------|-----------|------|-----------------|----------------------|
| Project | Agreement | Unit | Project ID | Description/Location |
| 1041 | 013 | 000 | NH 62-2(13)21 F | NW of Sidney-N |

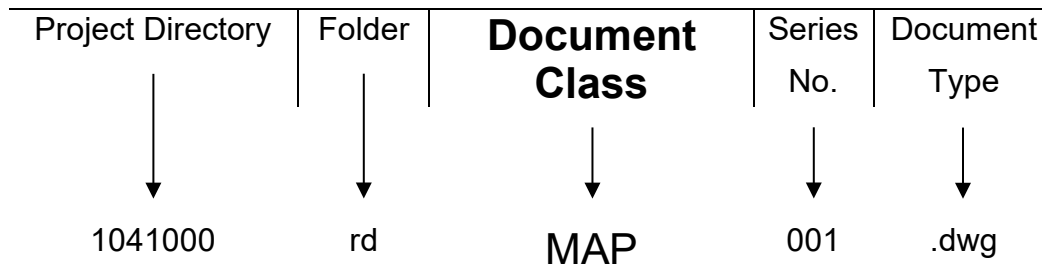
3. Folder - 1041000rdmap001.dwg



The work area creates and maintains the document and manages them in the appropriate folder for the work area. The available folders are shown below.

| <u>Sorted by Name</u> | | <u>Sorted by Abbreviation</u> | |
|---------------------------|----|-------------------------------|---------------------------|
| Alternative Contracting | AC | AB | As-Built |
| As-Built | AB | AC | Alternative Contracting |
| Bridge | BR | BR | Bridge |
| Combined Survey | CS | CD | Consultant Design |
| Construction | CO | CO | Construction |
| Consultant Design | CD | CP | Contract Plans |
| Contract Plans | CP | CS | Combined Survey |
| District Survey | DI | DI | District Survey |
| Environmental | EN | EL | Traffic Electrical |
| Geotechnical | GT | EN | Environmental |
| GIS | GS | GE | Traffic Geometrics Design |
| Hydraulics | HY | GS | GIS |
| Materials | MT | GT | Geotechnical |
| Photogrammetry | PH | HY | Hydraulics |
| Right-of-Way Design | RO | MT | Materials |
| Road Design | RD | PH | Photogrammetry |
| Surfacing Design | SD | RD | Road Design |
| Survey | SU | RO | Right-of-Way Design |
| Traffic Electrical | EL | SA | Traffic Safety |
| Traffic Geometrics Design | GE | SD | Surfacing Design |
| Traffic Operations | TO | SI | Traffic Signing |
| Traffic Safety | SA | SU | Survey |
| Traffic Signing | SI | TO | Traffic Operations |
| Utilities | UT | UT | Utilities |
| Visualization | VI | VI | Visualization |

4. Document Class - 1041000rdmap001.dwg



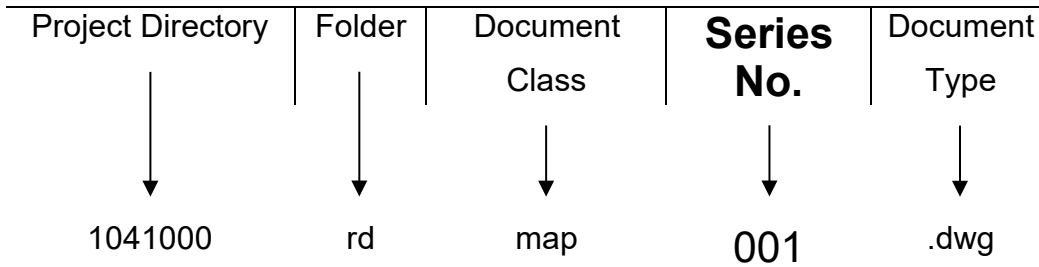
Document Class codes are used to categorize documents. The following class codes will be used for design files:

| Code | Description | Code | Description |
|------|------------------------------|------|-----------------------------|
| ABS | Control Abstract | CRR | Corridors File |
| ALN | Alignment Information | DET | Detail Sheets |
| ANC | Ancillary | DIA | Diaphragm Details |
| ARC | Building Architectural Plans | DSD | Drilled Shaft Details |
| ARE | Area | DST | Autodesk Sheet Set |
| ASU | Additional Survey | DTM | Digital Terrain |
| BMB | Beam Details (Bulb-T) | DTP | Digital Terrain/Planimetric |
| BNT | Bent or Abutment | ECF | Existing Culvert File |
| CAD | Cadastral | EFF | Existing Feature File |
| CAM | Camber Diagram | EJD | Expansion Joint Detail |
| CGP | Contour Grading Plan | ELD | Experimental Layout Design |
| CHC | Channel Change | ELE | Building Electrical Plans |
| CHK | Check File | EPL | Erection Plans |
| CLV | Culverts | EQU | Equation File |
| CMA | Contour Map | ERO | Erosion Control Plans |
| CON | Control Survey | ERT | Erosion Control Title Sheet |
| COR | Core Logs | ETR | Existing 3D Terrain Model |

| Code | Description | Code | Description |
|-------------|---------------------------------|-------------|-------------------------------------|
| EXH | Exhibit Sheet | PLP | Plan & Profile Sheets |
| EXP | Existing Plans | PMQ | Pavement Marking Quantities |
| FPL | Footing Plan | PRD | Pier Detail |
| FXP | Fencing Plans | PRO | Profile |
| FXT | Fencing Title Sheet | PTR | Proposed 3D Terrain Model |
| GEN | General Layout | PVP | Pavement Preservation Plans |
| GIR | Girder Details | PXS | Preliminary Cross Sections |
| HDS | Hydraulic Data Summary | QSH | Quantity Sheet |
| HSU | Hydraulic Survey | RDE | Rail Detail |
| JNT | Joint Details | REH | Rehabilitation Projects |
| LAY | Cross Section Layout | REQ | Information Request |
| LOC | Project Location Maps | RRL | Riprap Layout |
| LSD | Landscaping Detail Sheet | RRV | Rail Revisions |
| LSP | Landscaping Plan Sheet | RVT | Autodesk Revit Project |
| MAP | Map File | RWA | Retaining Wall |
| MAS | Mass Diagram | SCH | Project Schematic |
| MDE | Miscellaneous Details | SDC | Sign Design Calculation Sheets |
| MEC | Building Mechanical Plans | SDD | Storm Drain Design |
| OHW | Ordinary High Water Mark Survey | SDP | Storm Drain Profile |
| OWN | Ownership Sheet | SEI | Seismic |
| PBC | Reinforced Precast Box Culvert | SHD | Shoe Details |
| PCF | Project Calculation File | SLD | Slab Details |
| PFL | Project File List | SPD | Splice Details |
| PHA | Phase Construction | SPL | Special Mapping: Planimetric |
| PLM | Building Plumbing Plans | SPN | Utilities SUE Plan Sheets |
| PLN | Plan Sheets | SPP | Utilities SUE Plan & Profile Sheets |

| Code | Description | Code | Description |
|-------------|-------------------------------------|-------------|---|
| SSD | Sanitary Sewer Detail Sheet | TYP | Typical Sections |
| SSP | Sanitary Sewer Plan & Profile Sheet | UMA | Utility Mapping File |
| STD | Standard Detail | VCE | Trimble Business Center: Drawing Database |
| STL | Utilities SUE Title Sheet | VIS | Visualization |
| STS | Siphon Transition Structure | WLD | Wetland Detail |
| SUE | Utilities SUE Survey | WSD | Water Detail Sheet |
| SUM | Summary Sheets | WSP | Water Plan & Profile Sheet |
| SUP | Super Shape | WSU | Wetland Survey |
| TOC | Table of Contents | WWD | Wingwall Details |
| TOP | Topography File | XSF | Cross Sections |
| TPO | Segment Field Topog Survey | | |
| TRV | Traverse | | |
| TTL | Title Sheet | | |

5. Series No. - 1041000rdmap**001**.dwg



Each work area decides what 3-digit alpha-numeric combination to use for their document classes.

- 001 – 999
- A01 – Z99
- AA1 – ZZ9
- AAA – ZZZ

Examples:

Environmental – assigns incremental Series numbers for every project, workgroup, and class.

| <u>Class</u> | <u>Series</u> |
|--------------|---------------------|
| FXS | 001, 002, 003, etc. |
| OMT | 001, 002, 003, etc. |

Road Design assigns incremental Series numbers for every project and workgroup.

6. Document Type - 1041000rdmap001.dwg

| Project Directory | Folder | Document Class | Series No. | Document Type |
|-------------------|--------|----------------|------------|----------------------|
| ↓ | ↓ | ↓ | ↓ | ↓ |
| 1041000 | rd | map | 001 | .dwg |

Only design files and other types of files that supplement and support design files will be stored in ACC – Autodesk Docs (BIM 360). Some examples of document types are:

- Drawing files (.dwg)
- Template files (.dwt)
- Sheet Set files (.dst)
- Image files (.tif, .shp)
- Survey/Terrain files (.xml)