

## **MDOT V8i CADD File Naming Standards**

### **Road, Utilities, Right of Way, Hydrology and Landscape**

Every design project at MDOT is identified by a Job Number. A MDOT Job Number has five or six numerical characters followed by a letter suffix indicating project phase. The Job Number is carried forth in the MicroStation file naming convention as the first five (or six) characters of the drawing name followed by a combination of numbers and letters representing road name, file type, and drawing sequence number. The Job Number suffix character is not included in the MicroStation drawing name.

All road, utilities, right of way, hydrology and landscape MicroStation drawings must have the standard file extension of dgn and must not contain any special character like @, #, &, \* etc.

**There are NO exceptions to these two rules.**

The file naming convention shown below is a non-conclusive guide that applies to all road, utilities, right of way, hydrology and landscape drawings created by MDOT users or consultants developing plans for MDOT. The biggest change from the V8 file naming convention is that we now have the drawing name and sequence number included in the file name.

### **Option A road file naming structure:**

123456\_ name\_ stadrawing.dgn

..Job Number

.....Roadway Name

.....Beginning Station & Drawing Type

.....File Extension

### **Option B road file naming structure:**

123456\_ name\_ drawingXXX.dgn

..Job Number

.....Roadway Name

.....Drawing Type & Drawing Number

.....File Extension

### **Station Range and Drawing Type Explanation**

The station range number is the beginning station on each sheet ... for example

Mainline I96 removal/construction/profile

123456\_I96\_100REM.DGN

123456\_I96\_100CON.DGN

123456\_I96\_100EBPROF.DGN

123456\_I96\_100WBPROF.DGN  
123456\_I96\_125REM.DGN  
123456\_I96\_125CON.DGN  
123456\_I96\_125EBPROF.DGN  
123456\_I96\_125WBPROF.DGN

Interchange ramp removal/construction/profile

123456\_I96\_RAMPA\_100REM.DGN  
123456\_I96\_RAMPA\_100CON.DGN  
123456\_I96\_RAMPA\_100PROF.DGN

Maintaining traffic for the mainline

123456\_I96\_100MTSTG1.DGN  
123456\_I96\_125MTSTG1.DGN  
123456\_I96\_100MTSTG2.DGN  
123456\_I96\_125MTSTG2.DGN

**Drawing and Sequence Number Explanation**

The drawing sequence number must start at 001 for the POB of each roadway ... for example:

Mainline I96 removal/construction/profile

123456\_I96\_REM001.DGN  
123456\_I96\_CON001.DGN  
123456\_I96\_EBPROF001.DGN  
123456\_I96\_WBPROF001.DGN  
123456\_I96\_REM002.DGN  
123456\_I96\_CON002.DGN  
123456\_I96\_EBPROF002.DGN  
123456\_I96\_WBPROF002.DGN

Interchange ramp removal/construction/profile

123456\_I96\_RAMPA\_REM001.DGN  
123456\_I96\_RAMPA\_CON001.DGN  
123456\_I96\_RAMPA\_PROF001.DGN

Maintaining traffic for the mainline

123456\_I96\_MTSTGA001.DGN  
123456\_I96\_MTSTGA002.DGN  
123456\_I96\_MTSTGB001.DGN  
123456\_I96\_MTSTGB002.DGN

**All road MicroStation Drawing files must use the file extension of dgn.** The following non- conclusive file name list should be used as a guide:

Job No.	Drawing Name	Description	Full File Name
123456	TITLE	Title Sheet Part I	123456_I96_TITLE.dgn
123456	VICMAP	Vicinity Map	123456_I96_VICMAPXXX.dgn
123456	DRNVIC	Drainage Vicinity Map	123456_I96_DRNVICXXX.dgn
123456	TYP	Typical Cross Sections	123456_I96_TYPXXX.dgn

123456	MSCDET	Miscellaneous Details	123456_I96_MISDETXXX.dgn
123456	LEGEND	Legend Sheet	123456_I96_LEGENDXXX.dgn
123456	ALI	Alignment Sheet	123456_I96_ALIXXX.dgn
123456	REM	Removal	123456_I96_100REM.dgn 123456_I96_REM001.dgn
123456	CON	Construction	123456_I96_100CON.dgn 123456_I96_CON001.dgn
123456	DRAIN	Drainage	123456_I96_DRAINXXX.dgn
123456	WATER	Water main Sheet	123456_I96_100WATER.dgn 123456_I96_WATER001.dgn
123456	PLANPF	Plan and Profile	123456_I96_100PLANPF.dgn 123456_I96_PLANPF001.dgn
123456	SPPLAN	Split Plan Sheet	123456_I96_100SPPLAN.dgn 123456_I96_SPPLAN001.dgn
123456	PROF	Profile - Full	123456_I96_100EBPROF.dgn 123456_I96_EBPROF001.dgn
123456	WETLND	Wetland Mitigation	123456_I96_100WETLND.dgn 123456_I96_WETLND001.dgn
123456	REST	Rest Area	123456_I96_RESTXXX.dgn
123456	LNDSCP	Landscaping	123456_I96_LNDSCPXXX.dgn
123456	LNDDDET	Landscaping Details	123456_I96_LNDDDETXXX.dgn
123456	DETGRD	Detail Grades	123456_I96_DETGRDXXX.dgn
123456	MTVIC	Maintaining Traffic Vicinity Map (1)	123456_I96_MTVICXXX.dgn
123456	MTDETR	Maintaining Traffic Detour Map (1)	123456_I96_MTDETRXXX.dgn
123456	MTSTG	Maintaining Traffic Stage Plan Sheet (1)	123456_I96_100MTSTG#.dgn 123456_I96_MTSTG#XXX.dgn
123456	MTTYP	Maintaining Traffic Stage Typical Cross Section (1)	123456_I96_MT#TYPXXX.dgn
123456	MTSDET	Maintaining Traffic Special Details	123456_I96_MTSDETXXX.dgn
123456	SIGNAL	Signal Plans	123456_I96_SIGNALXXX.dgn
123456	PVMK	Permanent Pavement Marking Plans	123456_I96_PVMKXXX.dgn
123456	PSIGN	Permanent Signing Plans	123456_I96_PSIGNXXX.dgn
123456	UTIL	Utility Plans	123456_I96_UTILXXX.dgn
123456	SAN	Sanitary Plans	123456_I96_SANXXX.dgn
123456	ELEC	Electrical Plans	123456_I96_100ELEC.dgn 123456_I96_ELEC001.dgn
123456	BORING	Soil Boring Logs	123456_I96_BORINGXXX.dgn
123456	SPDET	Special Details	123456_I96_SPDETXXX.dgn

123456	PROJ	Project Information Sheet	123456_I96_PROJXXX.doc
123456	MSCQNT	Misc Quantities & Estimates Sheet (Word Document)	123456_I96_MSCQNT.doc
123456	MSCQNT	Misc Quantities & Estimates Sheet (MicroStation)	123456_I96_MSCQNT.dgn
123456	NOTE	Note Sheet (Word document)	123456_NOTE.doc
123456	NOTE	Note Sheet (MicroStation)	123456_NOTE.dgn
123456	SURVEY	Survey Information Sheet (Word Document)	123456_SURVEY_XXX.doc
123456	SURVEY	Survey Information Sheet (MicroStation)	123456_SURVEY_XXX.dgn

Note:

(1) For maintaining traffic (MT) sheets the stage number should be placed in front of the drawing number per the sample below.

### Bridge

Each county in Michigan is given a two digit number and is further broken down into sub sections known as Control Sections. Each bridge in Michigan is given a unique name that identifies the structure type and its location within a Control Section. MDOT Bridge MicroStation file naming standards follows along the same idea by describing the bridge type and number, location within the county, drawing type and number (if applicable).

The following file naming convention shall apply to all bridge MicroStation drawings created by MDOT users and consultants developing plans for MDOT:

### Bridge file naming structure:

Drawing Number (if applicable)

**B01\_63042\_XXXXXX\_XXX.dgn**

Type  
 ...Str # in CO  
 .....Control Section  
 .....Drawing Type  
 .....File Extension

### Structure Type Designations

B01	Highway over Waterway
C01	Highway over Culvert waterway
N01	Non-motorized Traffic (Bicycle)
P01	Pedestrian Overpass
R01	Highway over Railway
S01	Highway over Highway
V01	Highway over Non-motorized
T01	Tunnel, Highway through
W01	Retaining Wall
X01	Railway over Highway
Z01	Miscellaneous (Plaza, Bldg, etc)

**All bridge MicroStation Drawing files must use the file extension of dgn.** The following non-conclusive file name list should be used as a guide:

Struct No.	Cont. Sec.	Drawing Type	Description	Full File Name
B01	63042	TITLE	Title Sheet (Section 2)	B01_63042_title.dgn
B01	63042	PROJ	Project Information / Sheet Index	B01_63042_proj.doc
B01	63042	SITE	General Plan of Site	B01_63042_site.dgn
B01	63042	BORING	Soil Boring Data	B01_63042_boring.dgn
B01	63042	GPSTR	General Plan of Structure	B01_63042_gpstr.dgn
B01	63042	CONSTG	Construction Staging Details	B01_63042_constg.dgn
B01	63042	AESTH	Aesthetic Details	B01_63042_aesth.dgn
B01	63042	INFO	Exist Plans for info only (Raster format)	B01_63042_info.dgn
B01	63042	REM	Exist Plans for removal (Raster format)	B01_63042_rem.dgn
B01	63042	FDN	Deep Foundation Details	B01_63042_fdn.dgn
B01	63042	CULV	Culvert Details	B01_63042_culv.dgn
B01	63042	ABUT	Abutment Details	B01_63042_abut.dgn
B01	63042	WALL	Retaining Wall Details	B01_63042_wall.dgn
B01	63042	PIER	Pier Details	B01_63042_pier.dgn
B01	63042	STEEL	Structural Steel Details	B01_63042_steel.dgn
B01	63042	PREST	Prestressed Concrete Beam Details	B01_63042_prest.dgn
B01	63042	PIN	Pin and Hanger Replacement Details	B01_63042_pin.dgn
B01	63042	EXPJT	Expansion Joint Details	B01_63042_expjt.dgn
B01	63042	DECK	Superstructure Details	B01_63042_deck.dgn
B01	63042	OVLAY	Overlay Details	B01_63042_overlay.dgn
B01	63042	BARRPL	Barrier Replacement Details	B01_63042_barrpl.dgn
B01	63042	FENCE	Fencing Details	B01_63042_fence.dgn
B01	63042	SCREED	Slab and Screed Details	B01_63042_screed.dgn
B01	63042	TMPSP	Temporary Support Details	B01_63042_tmpspt.dgn
B01	63042	BMRPR	Beam Repair Details	B01_63042_bmrpr.dgn
B01	63042	REINF	Reinforcement Steel Details	B01_63042_reinf.dgn
B01	63042	SCOUR	Scour Countermeasure Details	B01_63042_scour.dgn
B01	63042	JOINT	Joint Replacement Details	B01_63042_joint.dgn
B01	63042	SPDET	Special Details	B01_63042_spdet.dgn

File names for common detail sheets in projects with multiple bridges or multiple control sections will need to be determined on a project-by-project basis.

### Special file naming for multiple bridges with the same name

Drawings for two structures at the same location must be uniquely identified. For example, the designation in the Title Block could read: **S08-1 OF 58152** (East Bound) and **S08-2 OF 58152** (West Bound). The appropriate file names would be **S08-1\_58152\_deck.dgn** (East Bound – Superstructure Sheet) or **S08-2\_58152\_abut.dgn** (West Bound – Abutment Sheet)

### Drawing Numbers

The implementation of Drawing Numbers is a way to uniquely identify drawings or raster images of the same type and incorporate the drawing name in the file name. Drawing Numbers should increase sequentially as they appear in the plans. The Drawing Name box is in the lower right area of the title block and contains three six character data fields.

#### Drawing Numbers Displayed on Sheets

##### SECT 1

DRAWING
roadway drawing type drawing #

##### EXAMPLE:

DRAWING
I96 CON 001

##### SECT 1 (MT)

DRAWING
roadway drawing type stage # drawing #

##### EXAMPLE:

DRAWING
I96 MTSTG 2A 001

##### SECT 2

DRAWING
structure number drawing type drawing #

##### EXAMPLE:

DRAWING
B01 PIER 001

### Contact Information for MDOT File Name Standards:

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