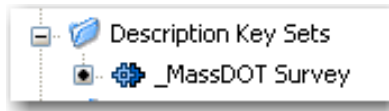


Description Key Sets

A standard MassDOT Description Code set is included within the MassDOT drawing template.



All survey projects shall use the _MassDOT Survey description key set. An asterisk (*) has been appended to each description key code in order to allow the use of Civil 3D multi-code capability for field-to-finish line work.

The file *MassDOT Data Collector File.txt* is available on the Resources page. This file is a text file of the MassDOT Description Key Codes that can be transferred to a data collector. The list of Description Key Codes must be used for MassDOT Baseplan preparation. All listed features must be described with the corresponding code. No substitute codes will be accepted.

A miscellaneous code (Z*) has been provided in the instance that a feature is not listed.

Figure Prefixes

A standard figure prefix database has been provided which automatically places field-to-finish line work onto the proper MassDOT layers. Please refer to the Resource Section for the appropriate version.

A sample point file, *MassDOT TESTPNTS.txt*, and sample field book, *MassDOT Points and Figures.FBK* are available on the Resource Section for testing.

The *MassDOT Testpnts.txt* file contains data for point codes, each with a different MassDOT description code. You may wish to import these points into a drawing as an example of the layers, description codes, and symbols.

The *Points and Figures.fbk* file contains data for point codes and figure codes, each with a different MassDOT description code. You may wish to import this file into a drawing as an example of the layers, description codes, symbols, and figures.

The following table contains both Description Keys and Figure Prefixes. Since the field-to-finish functionality uses the same codes, codes which do not have Figure Prefixes associated with them are **SHADED**. Any code that is not shaded has both a Description Key and a Figure Prefix. Parameters used in Description Key Codes are noted in **BOLD**. See the section following the code list for the explanation of the proper use of Parameters in Description Keys.

The * noted in each code simply refers to the ability to use multiple codes for a single location; it is not required in the proper coding of a point.

~?	BAD CODE
BCB*	BOTTOM BIT. CURB
BCC*	BOTTOM CONC CURB
BCE*	BOTTOM SLOPED EDGING CURB
BCG*	BOTTOM GRANITE CURB
BCO*	BOTTOM CURB - OTHER
BD*	BUILDING
BRAB*	BRIDGE - ABUTMENT BOT
BRAT*	BRIDGE - ABUTMENT TOP
BRCB*	BRIDGE - CONCRETE BEAM
BRCL*	BRIDGE - COLUMN
BRCN*	BRIDGE - CONCRETE
BRDK*	BRIDGE - DECK
BRFB*	BRIDGE - EXPOSED FOOTING BOTTOM
BRFT*	BRIDGE - EXPOSED FOOTING TOP
BRIB*	BRIDGE - I BEAM
BRJB*	BRIDGE - JERSEY BARRIER
BRMP*	BRIDGE - METAL PLATE
BROT*	BRIDGE - OTHER
BRPR*	BRIDGE - PIER TOP
BRPS*	BRIDGE - PIER (POINT)
BRRL*	BRIDGE - RAILING
BRSM*	BRIDGE - STRUCT MEMBER
BRSS*	BRIDGE - STRUCT MEMBER (POINT)
BRST*	BRIDGE - STEEL
BRWB*	BRIDGE - WINGWALL BOTTOM
BRWD*	BRIDGE - WOOD
BRWT*	BRIDGE - WINGWALL TOP
BRXJ*	BRIDGE - EXPANSION JOINT
BS*	BOTTOM OF SLOPE
BWL*	BROKEN WHITE LINE
BYL*	BROKEN YELLOW LINE
CBC*	CATCH BASIN CENTER
CBDF*	CATCH BASIN - D FRAME
CBE*	CATCH BASIN – BACK CENTER EDGE
CBR*	CATCH BASIN - ROUND
CC*	CONCRETE COVER
CI*	CURB INLET
CL*	CENTER LINE - MISCELLANEOUS
CR*	CROWN OF ROAD
CS*	CHANGE IN SLOPE

CUBC*	CULVERT - CONCRETE BOX
CUBS*	CULVERT - STONE BOX
CUCC*	CULVERT - CONCRETE CIRCULAR
CUCS*	CULVERT - STONE CIRCULAR
DAMC*	DAM - CONCRETE
DAMO*	DAM - OTHER
DECK*	DECK - HSE OR BLDG
DEMT*	ELECTRIC METER
DFPL*	FLAG POLE
DGFP*	GAS PUMP
DGMT*	GAS METER
DI*	DROP INLET
DL*	DITCH LINE
DMBX*	MAILBOX
DMHR*	METAL HAND RAIL
DOC*	OIL
DPCR*	\$1 \$2 POST
DPLN*	PLANTER
DPSQ*	\$1 \$2 POST
DROC*	ROCK OUTCROP
DSPP*	STAND PIPE
DSTR*	STAIRS
DVLT*	VAULT UNDERGROUND
DVPP*	VENT PIPE
DWP*	DETECTABLE WARNING PAD – ADA
DWEL*	WELL
DWHL*	CONCRETE WHEEL STOP
DWMT*	WATER METER
DYL*	DBL YELLOW LINE
EC*	EDGE CONC
EG*	EDGE GRAVEL
EGH*	ELECTRIC HAND HOLE
EL*	EDGE GRASS/LAWN
EM*	EDGE MATERIAL PILE
EO*	EDGE OF OTHER SURFACE TYPE
EP*	EDGE PAVE - BITUMINOUS
ERP*	EDGE RIPRAP
EW*	EDGE OF WATER
FCBW*	FENCE - BARBED WIRE
FCCL*	FENCE - CHAIN LINK
FCCR*	FENCE - CEDAR RAIL

FCGA*	FENCE - GATE POST
FCIP*	FENCE - IRON PIPE
FCOT*	FENCE - OTHER
FCS*	FENCE - SEDIMENTATION
FCWD*	FENCE - WOOD
FES*	FES \$1 \$2 FLARED END SECTION
FFE*	FINISHED FLOOR ELEV
FL*	STREAM/RIVER FLOW LINE
FN*	FOUNDATION
GCSL*	GUARD RAIL - CABLE - STL POSTS LEFT OF DIR OF SURVEY
GCSR*	GUARD RAIL - CABLE - STL POSTS RIGHT OF DIR OF SURVEY
GCTL*	GUARD RAIL - CABLE - TRIA POSTS LEFT OF DIR OF SURVEY
GCTR*	GUARD RAIL - CABLE - TRIA POSTS RIGHT OF DIR OF SURVEY
GFL*	GAS FILL - GAS STATION
GGT*	GAS GATE
GPL*	GPL \$1 - GUY POLE
GRET*	GUARD RAIL - END TREATMENT
GRTD*	GUARD RAIL - STL THRIE BEAM DBL FACED
GRTL*	GUARD RAIL - STL THRIE BEAM POSTS LEFT OF DIR OF SURVEY
GRTR*	GUARD RAIL - STL THRIE BEAM POSTS RIGHT OF DIR OF SURVEY
GRWD*	GUARD RAIL - STL W BEAM DBL FACED
GRWL*	GUARD RAIL - STL W BEAM POSTS LEFT OF DIR OF SURVEY
GRWR*	GUARD RAIL - STL W BEAM POSTS RIGHT OF DIR OF SURVEY
GTBH*	BHL \$1 – BORING HOLE
GTOW*	MW \$1 – MONITORING WELL
GTTP*	TP \$1 – TEST PIT
GWA*	GUY WIRE ANCHOR
HB*	HAYBALES FOR EROSION CONTROL
HC*	HEADWALL - CONC
HO*	HEADWALL - OTHER
HS*	HEADWALL - STONE
HYD*	HYDRANT
INV*	INV \$1 \$2 - INVERT
JBDF*	PRECAST CONC BARRIER (DBL FACED)
JBSF*	PRECAST CONC BARRIER (SINGLE FACED)
LPDL*	LIGHT POST DOUBLE LIGHT
LPL*	LIGHT POLE SINGLE LIGHT

MBMK*	BENCHMARK \$1 \$2 \$3 \$4
MDHL*	DRILL HOLE
MDSK*	DISK \$1 \$2 \$3
MELP*	ESCUTCHEON PIN LEAD PLUG
MFLY*	CHK SHOT
MHC*	CATV MANHOLE
MHD*	DRAIN MANHOLE
MHE*	ELECTRIC MANHOLE
MHG*	GAS MANHOLE
MHM*	STEAM MANHOLE
MHO*	MANHOLE - MISC
MHS*	SEWER MANHOLE
MHT*	TELEPHONE MANHOLE
MHW*	WATER MANHOLE
MIPE*	IP \$1 \$2 – IRON PIPE
MMAG*	MAG NAIL
MMHB*	\$1 \$2 \$3 \$4 MASSACHUSETTS HIGHWAY BOUND
MMON*	\$1 \$2 \$3 \$4 – MONUMENT
MPHB*	\$1 \$2 \$3 \$4 PHOTO CONTROL - BOTH
MPHH*	\$1 \$2 \$3 \$4 PHOTO CONTROL - HORIZONTAL
MPHV*	\$1 \$2 \$3 \$4 PHOTO CONTROL - VERTICAL
MPKN*	PK NAIL
MREB*	\$1 \$2 REBAR/IRON PIN
MRRS*	RAILROAD SPIKE
MRST*	TOWN LINE ROAD STONE
MSTN*	STAKE & NAIL
MTBD*	TOWN BOUND
MTRV*	\$1 \$2 \$3 \$4 – TRAVERSE STATION
MXCT*	X-CUT
OH*	OVERHANG
OS*	ON SLOPE
OW*	OVERHEAD WIRE
PELH*	SPOT ELEV - HIGH POINTS
PELL*	SPOT ELEV - LOW POINTS
PELV*	SPOT ELEV - INTER SHOTS
RRRM*	RUBBER MAT
RRSG*	RAILROAD SIGNAL
RRSW*	RAILROAD SWITCH
RRTK*	RAILROAD TRACKS
SI*	SILL - DOOR, BUILDING, FOUNDATION
SWA*	SWALE

SWL*	SOLID WHITE LINE
SYL*	SOLID YELLOW LINE
TC*	TOP OF CURB
TFCC*	TRAFFIC SIGNAL CONTROLLER CABINET
TFEA*	END OF MAST ARM
TFFB*	FLASHING BEACON
TFHS*	HANDICAP SPACE - PAVEMENT MARKING
TFMA*	TRAFFIC SIGNAL MAST ARM POLE
TFMR*	TRANSFORMER
TFMT*	PARKING METER
TFPB*	TRAFFIC PULL BOX
TFPD*	TRAFFIC SIGNAL - PEDESTRIAN
TFS1*	SIGN
TFS2*	SMALL SIGN - DOUBLE POST
TFSG*	TRAFFIC SIGNAL – POST MOUNTED
TFSN*	BILLBOARD OR OTHER LARGE GROUND SIGN
TSO*	OVERHEAD SIGN (LOCATION OF OVRHNG)
TFSS*	SIGN
TFSW*	TRAFFIC SIGNAL SPAN WIRE ASSEMBLY POLE
TFUL*	LOOP DETECTOR
TPL*	TROLLEY POLE
TRNP*	CROSS COUNTRY TRANSMISSION POLE
TS*	TOP OF SLOPE
UC*	UTILITY - CABLE LINE
UD*	UTILITY - DRAINAGE
UE*	UTILITY - ELECTRIC
UFB*	UFB \$1 - UTILITY POLE & FIRE BOX
UG*	UTILITY - GAS
ULT*	ULT \$1 – UTILITY POLE SINGLE LIGHT
UM*	UTILITY - STEAM
UO*	UTILITY - MISCELLANEOUS
UPDL*	UPDL \$1 – UTILITY POLE DOUBLE LIGHT
UPL*	UPL \$1 – UTILITY POLE
US*	UTILITY - SEWER
UT*	UTILITY - TELEPHONE
UW*	UTILITY - WATER
VGBF*	BF#\$1 \$2 \$3 \$4 – BANK FLAG
VGBU*	BUSH
VGCA*	CULTIVATED AREA EDGE
VGHE*	HEDGE
VGSM*	\$1" \$2 – TREE (LESS THAN 10")

VGST*	STUMP
VGTT*	\$1"\$2 - TREE (10" AND LARGER)
VGWA*	SWAMP/MARSH OR WETLAND OUTLINE
VGWF*	WF# \$1 \$2 \$3 \$4 – WETLAND FLAG
VGWL*	WOODS OR BRUSH LINE
WGT*	WATER GATE
WLBR*	WALL - BRICK (FACE @ GROUND)
WLCN*	WALL - CONCRETE (FACE @ GROUND)
WLDF*	WALL - DOUBLE FACED (FACE @ GROUND)
WLOT*	WALL - OTHER (FACE @ GROUND)
WLPT*	WALL - POINTED WALL (FACE @ GROUND)
WLRT*	WALL - RETAINING (FACE @ GROUND)
WLSM*	WALL - STONE MASONRY
WLST*	WALL - STONEWALL
WLTP*	WALL - TOP (ANY TYPE)
WWPV*	PAVED WATERWAY
WSO*	WATER SHUT OFF
Z*	\$1 \$2 \$3 \$4 MISCELLANEOUS CODE (ANY CODE NOT FOUND)

Description Key Codes with Parameters

The following description key codes use parameters, or additional information, within the code. A short description of what shall be included within the code is shown <...>.

Do not include special characters such as #, ", ?, or !

DPCR <diameter in inches> <material>
DPSQ <size in inches> <material>
FES <FES width in inches> <material>
GPL <number>
GTBH <number>
GTOW <well number>
GTTP <test pit number>
INV <pipe diameter in inches> <pipe material>
MBMK <set> <set in/on> <USER> <USER>
MDSK <type> <number> <year>
MIPE <diameter in inches> <USER>
MMHB <type/mark of location> <USER> <USER> <USER>
MMON <type/mark of location> <USER> <USER> <USER>
MPHB <set> <MassDOT name if applicable> <USER> <USER>
MPHH <set> <MassDOT name if applicable> <USER> <USER>
MPHV <set> <MassDOT name if applicable> <USER> <USER>
MREB <USER> <USER>
MTRV <set> <MassDOT name if applicable> <USER> <USER>
UFB <pole number>
ULT <pole number>
UPDL <pole number>
UPL <pole number>
VGBF <number> <USER> <USER> <USER>
VGSM <diameter in inches> <type>
VGT <diameter in inches> <type>
VGWF <number> <USER> <USER> <USER>
Z <USER> <USER> <USER> <USER>

Tree Code Description Key

The tree code, VGT, has been redefined to automate the sizing of the tree symbol. The tree code, VGSM, (used for smaller caliper trees) uses a uniformly sized symbol. Both codes are automatically labeled with the size and tree type. Tree types of CON and DEC, for coniferous and deciduous, have been established.

The code will use the descriptor (VGSM or VGT), followed by a space, then the diameter (in inches) of the tree trunk (do not include the *inches* " character in code), followed by a space, and finally the tree type, CON or DEC. See the following examples;



Wetland Flag Code Description Key

The wetland flag code has been redefined to automate the symbol, and automatically label it with the flag number. The code will use the VGWF descriptor, followed by a space, then the flag number. See the following examples;



When using this code, the Wetland Flag symbol and text label will be placed onto the EX-SV-WETL-TEXT layer separate from the Wetland Line layer, EX-SV-WETL.