S1.01 General

WSDOT deliverables are created using established survey, design, and drafting standards and requirements set by the State Design Office. The symbols and conventions listed in this section are intended to comprise all of the standard symbols necessary for the preparation of deliverables for WSDOT. These standards apply to Computer Aided Engineering (CAE) applications and equipment as well as manually drafted plans. Adherence to these standards is essential to ensure the uniformity of plans produced throughout and for the WSDOT.

Custom attributes may be necessary in some cases, but make every effort to use the standard symbols listed in this documentation in order to maintain the consistency of deliverables that are developed for state projects. If you think custom symbols are needed, confirm that need and their use with your regional CAE support coordinator or the regional Plans Office.

Any questions regarding the use of CAE application to accomplish WSDOT standards should first be forwarded to your regional CAE support coordinator and/or Headquarters CAE in the GeoMetrix Office. Questions about the standards themselves or project specific plan graphics that not covered by the standards should be forwarded to the WSDOT Plan Reviewer assigned to your project.

Standard Symbols and Conventions

The various geometric and design features commonly used in plans have been assigned to the different codes, features, and levels. These symbols and conventions are available to the operator for review or download from the WSDOT CAE web page, in the "Resources" category (www.wsdot.wa.gov/Design/CAE).

These standards must be followed in the production of WSDOT deliverables, whether by internal WSDOT personnel or by external WSDOT consultants.

Text Fonts and Sizes

The text fonts and sizes assigned to WSDOT CAD elements are set for readability, clarity, and consistency. The text font sizes and styles called out in the standard symbols and conventions listing maintain readability through the final Ad and Award printing process and after numerous copies.

The text sizes indicated in this manual represent standards that will produce readable plans and should be considered the minimum accepted sizes. If a plan sheet becomes too crowded to place text at the minimum text size, a smaller text may be used at the discretion of your WSDOT Plan Review representative.

S1.02 Category Codes

Categories are divided into major discipline or function or items. Sub Categories are divided into the different section of the larger category. The element name is then added to create a specific feature core or level name.

Catagory: DR for drainage, RW for Right of Way, etc

Sub Catagory: PP for pipes and Ditches, ST for structures, etc.

Element name: Catch Basin, etc.

Example: Parent_Child_Element = DR_ST_CatchBasin

* Denotes that a level is for design use only, not a level used in the production of standard deliverable plans.

Description	Catagory	Sub Catagory	Combined
Alignment	**AL**		
Highway		HW	AL_HW_
Right of Way		RW	AL_RW_
Structure Alignments		SA	AL_SA_
Break Lines & Ground Shots	**BL**		
Lines		LN	BL_LN_
Points		PT	BL_PT_
***Design**	**DS**		
General Design Codes		GE	DS_GE_
Drainage	**DR**		
Pipes and Ditches		PP	DR_PP_
Structures		ST	DR_ST_
Environmental	**EV**		
Erosion Control		EC	EV_EC_
Environmental Permits		EP	EV_EP_
*Hec Ras		HR	EV_HR_
Irrigation		IR	EV_IR_
Landscape		LS	EV_LS_
Wetlands		WL	EV_WL_

Description	Catagory	Sub Catagory	Combined
Photo, Monuments and Control	**PM**		
Monuments and Control		MN	PM_MN_
Photo Control		PH	PM_PH_
Photogrammetry	**PH**		
Raster Images		RI	PH_RI_
*Specialty		SP	PH_SP_
Right of Way	**RW**		
RW Boundaries		BD	RW_BD_
Easements & Permits		ES	RW_ES_
Government Boundaries		GB	RW_GB_
Parcels		PA	RW_PA_
Section Information		SC	RW_SC_
Roadway	**RD**		
Berms		BM	RD_BM_
Barriers		BR	RD_BR_
Curb, Gutter, Sidewalk		CG	RD_CG_
Edges		ED	RD_ED_
Miscellaneous		MC	RD_MC_
Markings		MK	RD_MK_
Sheet	**SH**		
Detail Sheets		DE	SH_DE_
Drainage Profiles		DP	SH_DP_
Details Cell		DT	SH_DT_
Environmental Items		EI	SH_EI_
General Sheet Items		GI	SH_GI_
Permit Items		PI	SH_PI_
Plan Sheet Right of Way		PR	SH_PR_
Plan Sheets PSE		PS	SH_PS_
Roadway Profiles		RP	SH_RP_
Roadway Section		RS	SH_RS_

Description	Catagory	Sub Catagory	Combined
Traffic items		TI	SH_TI_
Vicinity Maps		VM	SH_VM_
Structures	**ST**		
Bridges		BG	ST_BG_
Walls		WA	ST_WA_
Topography	**TP**	**TP**	
Contours		CN	TP_CN_
Manmade		MM	TP_MM_
Natural		NT	TP_NT_
Traffic	**TR**		
Illumination		IL	TR_IL_
Signals		SG	TR_SG_
Signing		SN	TR_SN_
Traffic Systems		TS	TR_TS_
Work Zone		WZ	TR_WZ_
Utilities	**UT**		
Communication		CM	UT_CM_
Gas		GS	UT_GS_
General Utility Items		GU	UT_GU_
Multiple Types		MT	UT_MT_
Power		PW	UT_PW_
Sanitary Sewer		SS	UT_SS_
Water		WT	UT_WT_
*X Section	**XS**		
*Surface		SF	XS_SF_