SECTION 10 – DIMENSIONS STYLE STANDARDS

10.1 Dimension Style Standards

"Dimension Styles" are a named group of dimension settings that determine the appearance of the dimension. Each style depends on the drawing type, drawing scale, and application. The contractor and A/E consultants will need to follow the City's standards. This will represent the dimensioned object or objects in the clearest form possible for the City while staying within the industry standard for dimensioning.

The text that goes along with the dimensioning should always be linked with the dimensioning and never exploded. This assures users the ability to modify dimensions knowing that the text will be updated as well. Dimension style colors will always be set to "bylayer". All dimension variables will reside on the same layer. All dimension styles will have the Text Color set to "White" for best clarity when printing. This is already setup within the City's standard dimension styles. The only modifications a contractor or A/E consultant may do to a standard City dimension style may be with the leader line in that they may adjust a dimensions leader to loop or have an arrow, etc. depending on the drawing needs. Also, the contractor or A/E consultant may adjust the dimension text location if it does not fit within the dimension callout.

The dimension style is located within the drawing template that includes all the other City CADD standards such as text styles. The drawings system variable "dimscale" should always be set to "1" since the dimension styles are already set up. Remember that all dimensioning will be done in model space unless approved to be used in paper space by the City.

10.2 Dimension Style Settings

All dimensioning should typically be drawn as associative and placed in the same drawing space as the entity being dimensioned. The dimension measurement (i.e. distance, angle, etc.) should match the dimension of the geometry exactly unless alternate values are required to show tolerances or ranges. Dimension extension lines shall originate directly on the drawing geometry. Styles to be used for text in dimensions shall follow the standard fonts as outlined in Table 9.2 Standard Text Heights. Other settings are listed in Table 10.2 Dimension Style Settings.

Table 10.2 Dimension Style Settings

Lines:	
Linetype	Bylayer (Continuous)
Extend beyond dim lines	.07
Offset from origin	.07
Symbols and Arrows:	
Arrowheads	Closed filled
Arrow size	.1
Center Mark	.07
Text:	
Text Style	Arial
Text Height	.07
Text Placement: Vertical	Centered
Text Placement: Horizontal	Centered
Text Alignment	Aligned with dimension line
Fit:	
Fit Options	Both Text and Arrows
Text Placement	Beside the dimension line
Primary Units:	
Unit Format	Decimal
Precision	0.00
Scale Factor	1
Zero suppression	Trailing
Angular dimensions: Units	Decimal
Angular dimensions: Precision	0

Under most circumstances, all annotation shall be placed so they are read from either the bottom or the right side of the sheet. Text shall not be placed across roadway centerlines or right-of-way lines and should generally be clear of all lines. All information identifying center lines, such as stationing and bearings, should be placed on top of the reference control line and read left to right based on the direction of stationing.