

# CITY OF VANCOUVER CADD STANDARDS FOR CONTRACTORS



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# Digital CADD Data Specifications for City of Vancouver Contractors

#### 1 Introduction

Digital spatial data specifications and standards are defined to provide corporate structure to data files. Adherence to these standards will assist in the preparation of drawing files and decrease the amount of verification necessary. In addition, these standards are designed to facilitate transfer of spatial data between branches of the City of Vancouver, software packages, projects, contractors, GIS and general users of the City of Vancouver's digital data. The ability to communicate effectively regarding digital data requires a common understanding regarding current data standards.

### 1.1 Purpose

The purpose of this manual is to provide guidance to the basic procedures for Computer Aided Design and Drafting (CADD) at the City of Vancouver. These procedures and guidelines are to ensure consistent products, appearance and accuracy. This document is meant to be neither static nor all inclusive, but improved and updated where appropriate.

#### 1.2 Roles and Responsibilities

Engineering Information Services is responsible for maintaining standard bases and supporting standard layouts, templates, devices, symbols and server processes on the City of Vancouver's Engineering CADD server (ENCAD). ENCAD clients are responsible for maintaining the integrity of ENCAD base, supporting information and server environment. ENCAD clients are responsible for the maintenance of base information as input to the COV GIS for their specific program areas.

### 2 General Data Specifications

### 2.1 Projection

Universal Transverse Mercator projection (UTM) is the standard projection used by the City of Vancouver.

#### 2.1.1 UTM Zone

The City of Vancouver is in UTM Zone 10.

#### 2.1.2 **Origin**

The standard origin for all digital spatial data files for the City of Vancouver will be located at X=0, Y=0, Z=0.

#### 2.1.3 Units of Resolution

Meters (m) is the resolution for digital data in the City of Vancouver

#### 2.1.4 Horizontal Datum

North American Datum of 1983(NAD 83) GVRD HPN

#### 2.1.5 Standard Units

Metric where possible, the City of Vancouver is implementing a migration to metric standards.

### 2.1.6 Coordinate System

Eastings and Northings will be used for coordinate location references. Autodesk Map UTM83-10 is the assigned coordinate system for all City of Vancouver.

#### 2.1.7 Spheroid

**WGS 84** 

### 3 Survey Monuments

### 3.1 Grid Coordinates

Grid coordinates are preferred for electronic as-built submissions. If grid coordinates are not supplied, the ground transformation formula is required.

### 3.2 Tablet Marking

All surveys will note the tablet markings (i.e. V-2166) of monuments referenced from the City of Vancouver Integrated Survey Area No. 31.

#### 3.3 Vertical Datum

The vertical datum used in the survey is required.

### 4 Security

#### 4.1 Virus checking

All files from external sources will be scanned for viruses prior to opening or executing on ENCAD.

### 5 General File Specifications

#### 5.1 AutoCAD

AutoCAD DWG (2010 format preferred) is the standard file format for City of Vancouver CADD files.

### 5.2 Layer driven features

All element specifications will be determined by layer (i.e. colour, line weight). All elements on a layer will conform to the standards and specifications for that layer (see Layers).

#### 5.3 Use of external references (X-ref)

Insertion points for x-ref files shall be X=0, Y=0, Z=0. X-ref files shall be inserted on layer "XREFLAYER" (see Layers) with a scale factor = 1.

### 5.4 Use of paper space/model space

All drawings should be using Paper and Model Space. All working entities are drawn in Model Space. All title blocks are in Paper Space and at a plot scale of 1=1. 'UCSICON' should always be on in AutoCAD.

All Objects associated to one another should be in the same space (i.e. All titleblock notes and objects are in Paper Space; all annotations are to be in the same space as the objects that they annotate).

#### 5.5 Drawing orientation

All drawings, with the exception of site plans, will use project north alignment rather than true north. True north may be indicated with a north arrow based on current declination to indicate potential view rotation.

#### 5.6 Use of AutoCAD 'Dview' command

Use the AutoCAD Command 'Dview - TWist' rather than 'Rotate' for drawing orientation. Rotating the objects can destroy the spatial references.

### 5.7 Topological validation

The standards for topology must be met. Digital data must be vector and poly clean. The following errors are unacceptable: dangling nodes, undershoots, intersection errors, loops, open polygons, slivers and zero area polygons. ENCAD base layers are topologically valid.

### 6 Drawing Templates

Located: <ROOT>:\templates\CADD\_template.dwt

This file will contain recommended specifications for plan drawings including projection and datum information. Templates are developed for:

- AutoCAD
- AutoCAD Map
- Civil 3D
- Land Development Desktop
- Contractor's template

### 7 Plotting and Layout Specifications

- Standard layout blocks are included in <ROOT>:\templates\CADD\_template.dwt
- Layouts, map surrounds and plot files are to include:
  - o Title
  - Legend

- North arrow
- Scale
- o Date
- o Datum
- o Projection
- o Author
- Plot files are HP-GL/2 compatible.
- Layouts are used for City of Vancouver plotting.
- Object colour and line weight are to be used for plotting, when possible. These parameters are controlled by layer.
- Colour-dependent plot style table (.ctb) files are located in: <ROOT>:\plot\Plot Styles
  - o plotbyobject.ctb for WYSIWYG colour
  - o plotobjectblack.ctb for black
- Plotter configuration (.pc3) files, defined by business unit devices, are located in: <ROOT>:\plot\plotters<sup>†</sup>
  - o e.g. "CR55\_Plotter1\_7th.pc3")

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<sup>\*</sup> The plot styles will use the layer or object properties to plot.

<sup>\*</sup>Standard\* plotter configurations will be located in the networked location, while user-specific configurations will be located on the client computer.

### 8 Blocks

Blocks shall be used when duplicate entities are within a drawing. Attributes shall be created if text is used within a block. With few exceptions, all entities within the block shall be created on layer "0". Base points should be the most logical insertion location used.

The CADD\_template.dwt will contain most standard blocks for the City of Vancouver (see Symbols). In addition, <ROOT>:\blocks will contain many standard stamp blocks.

### 9 Line Styles

Line Styles are controlled by layer. Only standard AutoCAD line styles are supplied. Custom line styles are currently created on a per project basis.

### 10 Text Styles and Sizes

The CADD\_template.dwt file will contain all text styles (fonts) used at the City of Vancouver. Text should be inserted on the layer associated with the object layer with a *txt* extension (e.g. P\_PROP\_LINE and P\_PROP\_LINE\_TXT). Microsoft Windows TrueType fonts may also be used, provided they are fonts included in the City's standard computer image.

Text Styles
L100
L120
L140
L175
L200
L240
L290
L350
L40
L425
L50
L500
L60
L80
ROMANC
ROMAND
ROMANS
ROMANT
SANSERIF
STANDARD

### 11 Scales

Drawing Type	Metric Scale
Site Plans	1:250 1:500 1:1000 1:1500 1:2000
Civil Plan and Profile	1:250(horizontal) 1:50(vertical)
Cross Sections	1:50 1:100 1:200
Detail	1:5 1:10 1:25 1:50
City	1:30000 1:25000 1:17000

General Drawing scales

### 12 Dimension Styles

- ISO-25 (or develop department specific) dimension styles as included in the CADD template will be used. All dimensions are meters where possible. Standard Layer for Dimensions is DIMENSION (see Layers).
- Use associative dimensioning when possible to allow for ease of editing and updating. Do not explode or override the text of associative dimensions.
- Precision is based upon functional requirement.

### **13 Base Content**

BASE DRAWING FILE	DESCRIPTION
City_line.dwg	Vancouver city boundary
contour.dwg	Contours
COV_facet.dwg	Facet grid
Harbour_hlin.dwg	harbour headline
Linemap_stnames.dwg	linemap 30 street names
peatareas.dwg	peat areas
Shoreline.dwg	Shoreline
soils_files_keymap.dwg	Soil Records exist in Materials Branch
p_address.dwg	Addresses
p_annotation.dwg	district lot
p_easement.dwg	Easements
p_lot_line.dwg	lot lines with dimensions
p_lot_number.dwg	legal lot numbers
p_monument.dwg	survey monuments (original with names)
p_property_lbl.dwg	property dimensions (from legal plan)

BASE DRAWING FILE	DESCRIPTION
p_property_line.dwg	property lines
p_tie_lines.dwg	Property tie lines
s_catchment.dwg	Sewer catchment areas
s_main3dwatt.dwg	Sewer main (3D) with attributes
s_mainwatt.dwg	sewer main with attributes
s_main_lbl.dwg	Sewer main labels
s_manholewatt.dwg	sewer manholes with attributes
s_manhole_lbl.dwg	Sewer manhole labels
s_symbol.dwg	sewer symbols
sl_electrical.dwg	Street Lighting electrical
st_node.dwg	Street nodes
st_segment.dwg	street centerline segments
st_segmentwatt.dwg	Street centerline segments with attributes
st_segment_lbl.dwg	street names for every street segment
st_street_width.dwg	Street width labels
u_corridor.dwg	Reserved utility corridors
u_gas_classifiedwatt.dwg	Terasen Gas classified by status with attributes
u_gaswatt.dwg	Terasen Gas with attributes
u_gas_offsets.dwg	Terasen Gas offset labels.
u_hydrowatt	Hydro with attributes
u_steam_pipewatt	Steam Pipe with attributes(downtown)
u_telcowatt.dwg	Telephone and Cable with attributes
u_telco_classifiedwatt.dwg	Telephone and Cable classified by owner with attributes
w_symbolwatt.dwg	Water symbols with attributes
w_mainwatt.dwg	water mains and services with attributes

Layer standards within these files are defined in Layers (Section 15).

Object data is defined by *watt* layer name suffix. This is primary attribute data from GIS. This data can be used in queries or viewed per object (use the **Properties** window or the **ADEEDITDATA** command).

#### 13.1 Branch specific bases

Located in:

<ROOT>:\base\<branch>\_base.

These bases are maintained and update by the branch. Data Specifications (2.0) must be met for these base layers to be updated to GIS or used in CADD projects for other branches and departments in the COV.

#### **13.2 Files**

All files on ENCAD are the responsibility of those who use them.

### 13.3 Corruption

Corruption of this information is possible, do not delete, add to save set or update standard CADD information.

#### 13.4 Update

City of Vancouver CADD base files will be updated daily, where applicable (some base information is static) or when a request to update is made. Timing this update for periods of decreased network traffic is preferable.

### 14 CADD base file and layers Naming Convention.

Branch files and layers - these layers are prefixed with the following conventions:

p = property
s = sewer
sl = street lighting
st = streets
u = utility
w = water

These layers will be suffixed with the equivalent GIS feature code where one exists.

### 15 Layers

### 15.1 CADD Layers naming conventions

CADD Layers naming conventions have been developed to facilitate transfer of projects and facilitate communication regarding COV CADD base and project information.

Layer names that follow are considered to represent "existing" assets. Layers suffixed with \_ex are also considered existing. Layers suffixed with \_rm represent assets that are to be removed during construction. Layers for proposed assets are suffixed with "pr" or "design". Therefore, proposed curbs are to be stored on layer "st\_curb\_pr".

### 15.2 Standard City of Vancouver Base and Project Layers

Layer name	Line type	Colour	Description
COV_FACET_GRID	CONTINUOUS	6	Facet grid
COV_FACET_GRID_TEXT	CONTINUOUS	80	Facet alphanumeric
DIMENSION	CONTINUOUS	WHITE	Dimensions
PEAT	CONTINUOUS	124	Peat Areas
ARCHAEOLOGICAL	CONTINUOUS	200	Archaelogical
SOIL_LIQUEFACTION_POTENTIAL	CONTINUOUS	252	Soil Liquefaction Potential
SOIL_UNSTABLE	CONTINUOUS	44	Soil Unstable
SOILS FILE	CONTINUOUS	31	
SHORELINE	CONTINUOUS	BLUE	Shorelines and water bodies
SP_PARK	CONTINUOUS	GREEN	Stanley Park boundary
SP_PATH	CONTINUOUS		Stanley Park path
SP_ROAD	CONTINUOUS		Stanley Park road
VIEWPORT	CONTINUOUS	WHITE	Current layer for mview command in layout
TEXT	CONTINUOUS	WHITE	Drawing text general (more layers for different text should be created
VIEWPORT	CONTINUOUS	WHITE	Paperspace Viewport
XREFLAYER	CONTINUOUS	WHITE	Xref insertion layer

# 15.3 Greenway Base Layers

G_ART         CONTINUOUS         white         Greenways Art           G_BENCH         CONTINUOUS         44         Bench           G_BOLLARD         CONTINUOUS         blue         Bike Rack           G_BOLLARD         CONTINUOUS         white         Bollard           G_BOLLDER         CONTINUOUS         blue         Building           G_BOLLORS         CONTINUOUS         blue         Building           G_CONTOURS         DASHED         41         Contours           G_CONSING         CONTINUOUS         white         Crossing           G_CURB         CONTINUOUS         white         Crossing           G_CURB_GRANITE         CONTINUOUS         white         Curb           G_CURB_GRANITE         CONTINUOUS         8         Edge of Pavement           G_EDP         CONTINUOUS         8         Edge of Pavement           G_ENCE         DASHDOT2         42         Fonce           G_GRAVEL         DASHED         white         Gravite           G_COTTER         CONTINUOUS         cyan         Gutter           G_LAND_FEATURE_1         CONTINUOUS         cyan         misc feature           G_LANG         CONTINUOUS         cyan         m	Layer Name	Linetype	Colour	Description
G_BIKE_RACK G_BOLLARD CONTINUOUS White Bollard G_BOULDER CONTINUOUS C_BOULDER CONTINUOUS Bolue Building C_CONTOURS C_CONTOURS C_CONTOURS C_CONTINUOUS C_CONTOURS C_CONTINUOUS C_CONTOURS C_CONTOURS C_CONTINUOUS C_CONTOURS C_CONTINUOUS C_CONTOURS C_CONTINUOUS C_CONTOURS C_CONTINUOUS C_CONTOURS C_CONTINUOUS	G_ART	CONTINUOUS	white	Greenways Art
G_BOLLARD C_BOLLDER C_BONTINUOUS C_BOULDER C_BONTINUOUS C_BUILDING C_CONTINUOUS DASHED C_CONTOURS C_CONTOURS C_CONTOURS C_CONTOURS C_CONTOURS C_CONTOURS C_CONTOURS C_CONTOUS DASHED C_CURB C_CONTOUS C_CURB C_CONTINUOUS C_CURB C_CURB C_CONTINUOUS C_CONTINUOUS C_CURB C_CURB C_CONTINUOUS C_CONTINUOUS C_CECC C_CECC C_CECCC C	G_BENCH	CONTINUOUS	44	Bench
G_BOULDER C_BUILDING C_BUILDING C_CONTINUOUS DASHED JOASHED JO	G_BIKE_RACK	CONTINUOUS	blue	Bike Rack
G_BUILDING C_CONTINUOUS DASHED 41 Contours C_CROSSING C_CONTINUOUS White Crossing C_CURB C_CURB C_CONTINUOUS White Curb C_CURB C_CURB_GRANITE C_CONTINUOUS C_CURB_GRANITE C_CONTINUOUS C_CURB_GRANITE C_CONTINUOUS C_CONTINUOUS C_CONTINUOUS C_CONTINUOUS C_CONTINUOUS C_CONTINUOUS C_CONTINUOUS C_CONTINUOUS C_CONTINUOUS C_CEOP C_CONTINUOUS C_CONTINUOU	G_BOLLARD	CONTINUOUS	white	Bollard
G_CONTOURS G_CROSSING G_CONTINUOUS G_CURB G_CURB G_CURB G_CURB G_CURB G_CURB_GRANITE CONTINUOUS G_CURB_GRANITE CONTINUOUS G_CURB_GRANITE CONTINUOUS G_CORB_GRANITE CONTINUOUS G_CORB_GRANITE G_DIMENSION CONTINUOUS G_EOP CONTINUOUS G_EOP CONTINUOUS G_EOP CONTINUOUS G_EOP CONTINUOUS G_EOP CONTINUOUS G_EOP G_GRAVEL DASHED White Gravel G_GRAVEL DASHED White Gravel G_GRAVEL DASHED White Gravel G_GAUDE_FATURE_1 CONTINUOUS G_Yan Misc feature G_LAND_FEATURE_2 CONTINUOUS G_Yan Misc feature G_LAND_FEATURE_2 CONTINUOUS G_LAND_FEATURE_1 CONTINUOUS CONTINUOUS C_LAND_FEATURE_1 C_LAND_FEATURE_1 C_LAND_FEATURE_1 C_LAND_FEATURE_1 C_LAND_FEATURE_1 C_LAND_FEA	G_BOULDER	CONTINUOUS	251	Boulder
G_CROSSING CONTINUOUS white Crossing G_CURB CONTINUOUS white Curb G_CURB_GRANITE CONTINUOUS magenta Granite Curb G_CURB_GRANITE CONTINUOUS 24 Dimension G_EEOP CONTINUOUS 8 Edge of Pavement G_FENCE DASHBOT2 42 Fence G_GRANEL DASHED white Gravel G_GRAYEL DASHED White Gravel G_GUTTER CONTINUOUS Cyan Gutter G_LAND_FEATURE_1 CONTINUOUS Cyan misc feature G_LAND_FEATURE_2 CONTINUOUS Cyan misc feature G_LAND_FEATURE_2 CONTINUOUS Cyan misc feature G_LAND_FEATURE_2 CONTINUOUS Cyan misc feature G_LAND_FEATURE_3 CONTINUOUS Cyan misc feature G_LAND_FEATURE_3 CONTINUOUS Cyan misc feature G_LAND_FEATURE_4 CONTINUOUS Cyan misc feature G_LAND_FEATURE_5 CONTINUOUS Cyan misc feature G_LAND_FEATURE_5 CONTINUOUS Cyan CONTINUOUS CYAND	G_BUILDING	CONTINUOUS	blue	Building
G_CURB CRANITE CONTINUOUS magenta Granite Curb G_DIMENSION CONTINUOUS 24 Dimension G_EOP CONTINUOUS 8 Edge of Pavement G_FENCE DASHEDT2 42 Fence G_GARDEN_EDGE CONTINUOUS 33 Edge of Garden G_GARVEL DASHED White Gravel G_GUTTER CONTINUOUS Cyan Gutter G_LAND_FEATURE_1 CONTINUOUS Cyan misc feature G_LAND_FEATURE_2 CONTINUOUS Cyan misc feature G_DAINSCELLANEOUS CONTINUOUS White misc feature G_OLS CONTINUOUS Cyan Ornamental or Outdoor Lamp Standard G_PAINT_WHITE CONTINUOUS magenta White traffic paint lines G_PAINT_WHITE CONTINUOUS Magenta Parking G_PARKING CONTINUOUS Magenta Parking G_PARKING CONTINUOUS Mitte Parking Regulatory information G_PARKING_FEGS CONTINUOUS Mitte Parking Regulatory information G_PARKING_FEGS CONTINUOUS Cyan Pavers G_PAVER_2 CONTINUOUS Cyan Pavers G_PAVER_2 CONTINUOUS Cyan Pavers G_PAVING_1 CONTINUOUS Cyan CONTINUOUS Cyan CONTINUOUS Cyan CONTINUOUS Cyan Continuous Cyan Pavers G_PAVING_2 CONTINUOUS Cyan Continuous Cyan Pavers G_PAVING_3 CONTINUOUS Cyan Cyan Cyan Cyan Cyan Cyan Cyan Cyan	G_CONTOURS	DASHED	41	Contours
G_CURB_GRANITE G_DIMENSION CONTINUOUS CONTINUOUS G_EOP G_GRAVEL DASHED CONTINUOUS G_GRAVEL DASHED CONTINUOUS G_GRAVEL DASHED CONTINUOUS Cyan Misc feature G_LAND_FEATURE_1 CONTINUOUS Cyan Misc feature CONTINUOUS G_LAND_FEATURE_2 CONTINUOUS CYAN Misc feature G_LAND_FEATURE_2 CONTINUOUS G_LAND_FEATURE_2 CONTINUOUS G_LAND G_LAND_FEATURE_2 CONTINUOUS G_LAND	G_CROSSING	CONTINUOUS	white	Crossing
G_DIMENSION C_GEOP CONTINUOUS S_EDREC C_GENCE DASHDOT2 A2 Fence C_GARDEN_EDGE CONTINUOUS S_EDGE C_GARDEN_EDGE C_GORAVEL DASHED Mittle G_GAVEL C_GENTER C_GONTINUOUS C_YAN C_GLAND_FEATURE_1 C_GLAND_FEATURE_2 C_ONTINUOUS C_DLAND_FEATURE_2 C_ONTINUOUS C_DLAND C_DLAND_FEATURE_2 C_ONTINUOUS C_DLAND C_	G_CURB	CONTINUOUS	white	Curb
G_FENCE DASHDOT2 42 Fence G_GARDEN_EDGE CONTINUOUS 33 Edge of Garden G_GRAVEL DASHED white Gravel G_GUTTER CONTINUOUS CYAN MISC Feature G_LAND_FEATURE_1 CONTINUOUS CYAN MISC Feature G_LAND_FEATURE_2 CONTINUOUS CYAN MISC Feature G_LEADER CONTINUOUS CYAN MISC Feature G_LEADER CONTINUOUS CYAN MISC Feature G_OLS CONTINUOUS CYAN MISC Feature G_OLS CONTINUOUS CYAN MISC Feature G_OLS CONTINUOUS CYAN OFFICE OF CONTINUOUS CYAN CONTINUOUS CYAN OFFICE	G_CURB_GRANITE	CONTINUOUS	magenta	Granite Curb
G_FENCE         DASHDOT2         42         Fence           G_GARDEN_EDGE         CONTINUOUS         33         Edge of Garden           G_GARNEL         DASHED         white         Gravel           G_GUTTER         CONTINUOUS         cyan         Gutter           G_LAND_FEATURE_1         CONTINUOUS         cyan         misc feature           G_LAND_FEATURE_2         CONTINUOUS         cyan         misc feature           G_LANE         CONTINUOUS         10         Lane           G_LEADER         CONTINUOUS         24         Leader           G_MESCELLANEOUS         CONTINUOUS         white         misc feature           G_OLS         CONTINUOUS         value         misc feature           G_OLS         CONTINUOUS         value         Leader           G_MOLS         CONTINUOUS         white         misc feature           G_OLS         CONTINUOUS         white         misc feature           G_MOLS         CONTINUOUS         white         misc feature           G_DAL         CONTINUOUS         white         Misc feature           G_NOLS         CONTINUOUS         value         White traffic paint lines           G_PARKING         CONTINUOUS	G_DIMENSION	CONTINUOUS	24	Dimension
G_GARDEN_EDGE CONTINUOUS 33 Edge of Garden G_GRAVEL DASHED white Gravel G_GUTTER CONTINUOUS cyan Gutter G_LAND_FEATURE_1 CONTINUOUS cyan misc feature G_LAND_FEATURE_2 CONTINUOUS cyan misc feature G_LAND_FEATURE_2 CONTINUOUS cyan misc feature G_LANE CONTINUOUS 10 Lane G_LEADER CONTINUOUS 24 Leader G_MISCELLANEOUS CONTINUOUS white misc feature G_OLS CONTINUOUS cyan Ornamental or Outdoor Lamp Standard G_PAINT_WHITE CONTINUOUS magenta White traffic paint lines G_PARKING CONTINUOUS white Parking Regulatory information G_PARKING CONTINUOUS white Pavers G_PAVER CONTINUOUS white Pavers G_PAVER CONTINUOUS 253 Pavers G_PAVING_1 CONTINUOUS 254 Pavers G_PAVING_2 CONTINUOUS 255 Pavers G_PAVING_3 CONTINUOUS 256 Pavers G_PAVING_3 CONTINUOUS 257 Pavers G_PAVING_3 CONTINUOUS 258 Pavers G_PAVING_3 CONTINUOUS 259 Pavers G_PAVING_3 CONTINUOUS 250 Pavers G_PAUNG_3 CONTINUOUS 251 Pavers G_PAUNG_3 CONTINUOUS 252 Pavers G_PAUNG_3 CONTINUOUS 253 Pavers G_PAUNG_3 CONTINUOUS 254 Pavers G_PAUNG_3 CONTINUOUS 255 Pavers G_PAUNG_3 CONTINUOUS 256 Pavers G_PAUNG_3 CONTINUOUS 257 Pavers G_PAUNG_3 CONTINUOUS 258 Pavers G_PAUNG_3 CONTINUOUS 259 Pavers G_PAUNG_3 CONTINUOUS 250 Pavers G_PAUNG_4 Rainbarrels G_PAUNG_5 CONTINUOUS White Photos G_PAUNG_6 Photos G_RAINBARREL CONTINUOUS White Ramps G_RAINBARCL CONTINUOUS White Rainbarrels G_RAINBARCL CONTINUOUS White Rainbarrels G_RAINBARCL CONTINUOUS White Rainbarrels G_RAINBARCL CONTINUOUS White Rainbarrels G_RAINBARCL CONTINUOUS White Sections	G_EOP	CONTINUOUS	8	Edge of Pavement
G_GRAVEL DASHED white Gravel  G_GUTTER CONTINUOUS cyan Gutter  G_LAND_FEATURE_1 CONTINUOUS cyan misc feature  G_LAND_FEATURE_2 CONTINUOUS cyan misc feature  G_LEADER CONTINUOUS 24 Leader  G_MISCELLANEOUS CONTINUOUS white misc feature  G_OLS CONTINUOUS cyan Ornamental or Outdoor Lamp Standard  G_PAINT_WHITE CONTINUOUS magenta White traffic paint lines  G_PAINT_YELLOW CONTINUOUS yellow Yellow traffic paint lines  G_PARKING CONTINUOUS white Parking Regulatory information  G_PARKING_REGS CONTINUOUS white Parking Regulatory information  G_PAYER_3 CONTINUOUS white Pavers  G_PAVER_2 CONTINUOUS 253 Pavers  G_PAVER_2 CONTINUOUS 254 Pavers  G_PAVING_1 CONTINUOUS 254 Pavers  G_PAVING_2 CONTINUOUS 255 Pavers  G_PAVING_3 CONTINUOUS 252 Pavers  G_PAVING_3 CONTINUOUS 252 Pavers  G_PAVING_3 CONTINUOUS 253 Pavers  G_PAUNG_3 CONTINUOUS 254 Pavers  G_PAUNG_3 CONTINUOUS 255 Pavers  G_PAUNG_3 CONTINUOUS 250 Pavers  G_PAUNG_3 CONTINUOUS 251 Pavers  G_PAUNG_3 CONTINUOUS 252 Pavers  G_PAUNG_3 CONTINUOUS 253 Pavers  G_PAUNG_3 CONTINUOUS 254 Pavers  G_PAUNG_3 CONTINUOUS 255 Pavers  G_PAUNG_3 CONTINUOUS 250 Pavers  G_PAUNG_3 CONTINUOUS 250 Pavers  G_PAUNG_4 CONTINUOUS 250 Pavers  G_PAUNG_5 CONTINUOUS 250 Pavers  G_PAUNG_6 CONTINUOUS 250 Pavers  G_PAUNG_8 CONTINUOUS 250 Pavers  G_PAUNG_9 PAVER_9 CONTINUOUS 250 Pavers  G_RAIMBARREL CONTINUOUS 250 Retaining Wall  G_RAIMBARREL CONTINUOUS 250 Retaining Wall  G_SAND CONTINUOUS 251 Sand  G_SECTION White Sections	G_FENCE	DASHDOT2	42	Fence
G_GUTTER CONTINUOUS cyan misc feature G_LAND_FEATURE_1 CONTINUOUS cyan misc feature G_LAND_FEATURE_2 CONTINUOUS cyan misc feature G_LAND_FEATURE_2 CONTINUOUS cyan misc feature G_LAND_FEATURE_2 CONTINUOUS 10 Lane G_LEADER CONTINUOUS 24 Leader G_MISCELLANEOUS CONTINUOUS cyan Ornamental or Outdoor Lamp Standard G_OLS CONTINUOUS magenta White traffic paint lines G_PAINT_WHITE CONTINUOUS magenta White traffic paint lines G_PAINT_YELLOW CONTINUOUS white Parking Regulatory information G_PARKING CONTINUOUS white Pavers G_PAYER CONTINUOUS white Pavers G_PAVER CONTINUOUS white Pavers G_PAVER_2 CONTINUOUS white Pavers G_PAVING_1 CONTINUOUS 254 Pavers G_PAVING_2 CONTINUOUS 254 Pavers G_PAVING_3 CONTINUOUS 252 Pavers G_PAVING_3 CONTINUOUS White People G_PHOTO CONTINUOUS white Photos G_PIPE CONTINUOUS White Photos G_PIPE CONTINUOUS White Poles G_POLE CONTINUOUS White Poles G_PALING_CONTINUOUS White Poles G_RANDARREL CONTINUOUS White Ramps G_RAND CONTINUOUS White Ramps G_RETW CONTINUOUS White Ramps G_RETW CONTINUOUS White Ramps G_RETW CONTINUOUS White Sections	G_GARDEN_EDGE	CONTINUOUS	33	Edge of Garden
G_LAND_FEATURE_1 CONTINUOUS Cyan misc feature G_LAND_FEATURE_2 CONTINUOUS Cyan misc feature G_LANE C_LANE C_LANE C_LANE C_LEADER CONTINUOUS CONTINUOUS C_LEADER C_LEADER CONTINUOUS CONTINUOUS C_LEADER C	G_GRAVEL	DASHED	white	Gravel
G_LAND_FEATURE_2 CONTINUOUS Cyan misc feature G_LANE CONTINUOUS 10 Lane G_LEADER CONTINUOUS 24 Leader G_MISCELLANEOUS CONTINUOUS Cyan Mite misc feature G_OLS CONTINUOUS CYAN Ornamental or Outdoor Lamp Standard G_PAINT_WHITE CONTINUOUS G_PAINT_YELLOW CONTINUOUS G_PARKING C_PARKING CONTINUOUS G_PARKING C_PARKING CONTINUOUS Mite Parking Regulatory information G_PARKING G_PARKING CONTINUOUS Mite Pavers G_PAVER CONTINUOUS G_PAVER CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS C_PAVING_1 CONTINUOUS C_PAVING_2 C_PAVING_2 C_PAVING_3 CONTINUOUS C_PAVING_3 CONTINUOUS C_PAVING_3 CONTINUOUS C_PAVING_3 CONTINUOUS CONTINUOUS C_PIPE CONTINUOUS CONTINUOUS CONTINUOUS C_PARAMP CONTINUOUS CONTINUOUS C_PARAMP CONTINUOUS CONTINUOUS CONTINUOUS C_PARAMP CONTINUOUS CONTINUOU	G_GUTTER	CONTINUOUS	cyan	Gutter
G_LANE CONTINUOUS 10 Lane  G_LEADER CONTINUOUS 24 Leader  G_MISCELLANEOUS CONTINUOUS white misc feature  G_OLS CONTINUOUS cyan Ornamental or Outdoor Lamp Standard  G_PAINT_WHITE CONTINUOUS magenta White traffic paint lines  G_PAINT_YELLOW CONTINUOUS yellow Yellow traffic paint lines  G_PARKING CONTINUOUS magenta Parking  G_PARKING_REGS CONTINUOUS white Parking Regulatory information  G_PATHS CONTINUOUS white Pavers  G_PAVER CONTINUOUS white Pavers  G_PAVER_2 CONTINUOUS 254 Pavers  G_PAVING_1 CONTINUOUS 254 Pavers  G_PAVING_2 CONTINUOUS 253 Pavers  G_PAVING_3 CONTINUOUS 252 Pavers  G_PAVING_3 CONTINUOUS 252 Pavers  G_PEOPLE CONTINUOUS white People  G_PHOTO CONTINUOUS white Photos  G_PIPE CONTINUOUS White Photos  G_PIPE CONTINUOUS White Ploes  G_POLE CONTINUOUS White Ploes  G_PALINGARREL CONTINUOUS White Poles  G_RAMP CONTINUOUS White Ramps  G_RETW CONTINUOUS White Ramps  G_RETW CONTINUOUS White Ramps  G_SAND CONTINUOUS White Sections	G_LAND_FEATURE_1	CONTINUOUS	cyan	misc feature
G_LEADER CONTINUOUS CO	G_LAND_FEATURE_2	CONTINUOUS	cyan	misc feature
G_MISCELLANEOUS CONTINUOUS Cyan Ornamental or Outdoor Lamp Standard G_PAINT_WHITE CONTINUOUS Magenta White traffic paint lines G_PAINT_YELLOW CONTINUOUS Magenta White traffic paint lines G_PARKING CONTINUOUS Magenta Parking G_PARKING CONTINUOUS Magenta Parking G_PARKING CONTINUOUS Magenta Parking G_PARKING CONTINUOUS Mather Parking Regulatory information  G_PATHS CONTINUOUS Mhite Pavers G_PAVER CONTINUOUS Mhite Pavers G_PAVER_2 CONTINUOUS CONTINUO	G_LANE	CONTINUOUS	10	Lane
G_OLS CONTINUOUS Cyan Ornamental or Outdoor Lamp Standard G_PAINT_WHITE CONTINUOUS Magenta White traffic paint lines G_PAINT_YELLOW CONTINUOUS Magenta White traffic paint lines G_PARKING CONTINUOUS Magenta Parking G_PARKING CONTINUOUS Magenta Parking G_PARKING G_PARKING CONTINUOUS Mhite Parking Regulatory information G_PATHS CONTINUOUS Mhite Pavers G_PAVER CONTINUOUS Mhite Pavers G_PAVER CONTINUOUS CONTI	G_LEADER	CONTINUOUS	24	Leader
G_PAINT_WHITE CONTINUOUS G_PAINT_YELLOW CONTINUOUS G_PARKING CONTINUOUS G_PARKING CONTINUOUS Magenta G_PARKING G_PARKING CONTINUOUS Magenta G_PARKING G_PARKING_REGS CONTINUOUS Mhite Parking Regulatory information G_PATHS CONTINUOUS Mhite Pavers G_PAVER CONTINUOUS	G_MISCELLANEOUS	CONTINUOUS	white	misc feature
G_PAINT_YELLOW CONTINUOUS G_PARKING CONTINUOUS Magenta G_PARKING G_PARKING CONTINUOUS Mhite Parking Regulatory information G_PATHS CONTINUOUS G_PAVER CONTINUOUS G_PAVER CONTINUOUS G_PAVER CONTINUOUS CONTINUOUS CG_PAVER_2 CONTINUOUS CONTINUOUS CG_PAVING_1 CONTINUOUS CG_PAVING_2 CONTINUOUS CONTINUOUS CG_PAVING_3 CONTINUOUS CONTINUOUS CG_PAVING_3 CONTINUOUS CONTINUOUS CG_PAVING_3 CONTINUOUS CONTINUOUS CG_PAVING_3 CONTINUOUS CONTINUOUS CG_PAUDE CONTINUOUS CONTINUOUS CG_PAUDE CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CG_POLE CONTINUOUS	G_OLS	CONTINUOUS	cyan	Ornamental or Outdoor Lamp Standard
G_PARKING G_PARKING_REGS CONTINUOUS Mite Parking Regulatory information G_PATHS CONTINUOUS 152 Path G_PAVER CONTINUOUS White Pavers G_PAVER_2 CONTINUOUS 253 Pavers G_PAVING_1 CONTINUOUS 254 Pavers G_PAVING_2 CONTINUOUS 253 Pavers G_PAVING_3 CONTINUOUS 252 Pavers G_PAVING_3 CONTINUOUS C	G_PAINT_WHITE	CONTINUOUS	magenta	White traffic paint lines
G_PARKING_REGS CONTINUOUS Mhite Parking Regulatory information G_PATHS CONTINUOUS I52 Path G_PAVER CONTINUOUS White Pavers G_PAVER_2 CONTINUOUS	G_PAINT_YELLOW	CONTINUOUS	yellow	Yellow traffic paint lines
G_PAVER CONTINUOUS 152 Path G_PAVER CONTINUOUS white Pavers G_PAVER_2 CONTINUOUS 253 Pavers G_PAVING_1 CONTINUOUS 254 Pavers G_PAVING_2 CONTINUOUS 253 Pavers G_PAVING_3 CONTINUOUS 252 Pavers G_PAVING_3 CONTINUOUS 252 Pavers G_PEOPLE CONTINUOUS white People G_PHOTO CONTINUOUS white Photos G_PIPE CONTINUOUS 40 Pipes G_POLE CONTINUOUS white Poles G_RAINBARREL CONTINUOUS blue Rainbarrels G_RAMP CONTINUOUS white Ramps G_RETW CONTINUOUS 253 Sand G_SECTION CONTINUOUS white Sections	G_PARKING	CONTINUOUS	magenta	Parking
G_PAVER CONTINUOUS white Pavers G_PAVER_2 CONTINUOUS 253 Pavers G_PAVING_1 CONTINUOUS 254 Pavers G_PAVING_2 CONTINUOUS 253 Pavers G_PAVING_3 CONTINUOUS 252 Pavers G_PEOPLE CONTINUOUS white People G_PHOTO CONTINUOUS white Photos G_PIPE CONTINUOUS White Poles G_POLE CONTINUOUS white Poles G_RAINBARREL CONTINUOUS White Poles G_RAINBARREL CONTINUOUS White Poles G_RAMP CONTINUOUS White Ramps G_RETW CONTINUOUS 253 Sand G_SECTION CONTINUOUS White Sections	G_PARKING_REGS	CONTINUOUS	white	Parking Regulatory information
G_PAVER_2 G_PAVING_1 CONTINUOUS C	G_PATHS	CONTINUOUS	152	Path
G_PAVING_1 CONTINUOUS	G_PAVER	CONTINUOUS	white	Pavers
G_PAVING_2 CONTINUOUS 253 Pavers G_PAVING_3 CONTINUOUS 252 Pavers G_PEOPLE CONTINUOUS white People G_PHOTO CONTINUOUS White Photos G_PIPE CONTINUOUS White Poles G_POLE CONTINUOUS White Poles G_RAINBARREL CONTINUOUS blue Rainbarrels G_RAMP CONTINUOUS White Ramps G_RETW CONTINUOUS 200 Retaining Wall G_SAND CONTINUOUS White Sections	G_PAVER_2	CONTINUOUS	253	Pavers
G_PAVING_3 CONTINUOUS CONTINUOUS White People G_PHOTO CONTINUOUS White Photos G_PIPE CONTINUOUS White Pipes CONTINUOUS White Poles G_POLE CONTINUOUS White Poles G_RAINBARREL CONTINUOUS Dlue Rainbarrels G_RAMP CONTINUOUS White Ramps G_RETW CONTINUOUS CONTINUOUS Solution CONTINUOUS CO	G_PAVING_1	CONTINUOUS	254	Pavers
G_PEOPLE CONTINUOUS white People G_PHOTO CONTINUOUS white Photos G_PIPE CONTINUOUS 40 Pipes G_POLE CONTINUOUS white Poles G_RAINBARREL CONTINUOUS blue Rainbarrels G_RAMP CONTINUOUS white Ramps G_RETW CONTINUOUS 200 Retaining Wall G_SAND CONTINUOUS 253 Sand G_SECTION CONTINUOUS white Sections	G_PAVING_2	CONTINUOUS	253	Pavers
G_PHOTO CONTINUOUS white Photos G_PIPE CONTINUOUS 40 Pipes G_POLE CONTINUOUS white Poles G_RAINBARREL CONTINUOUS blue Rainbarrels G_RAMP CONTINUOUS white Ramps G_RETW CONTINUOUS 200 Retaining Wall G_SAND CONTINUOUS 253 Sand G_SECTION CONTINUOUS white Sections	G_PAVING_3	CONTINUOUS	252	Pavers
G_PIPE CONTINUOUS 40 Pipes G_POLE CONTINUOUS white Poles G_RAINBARREL CONTINUOUS blue Rainbarrels G_RAMP CONTINUOUS white Ramps G_RETW CONTINUOUS 200 Retaining Wall G_SAND CONTINUOUS 253 Sand G_SECTION CONTINUOUS white Sections	G_PEOPLE	CONTINUOUS	white	People
G_POLE CONTINUOUS white Poles G_RAINBARREL CONTINUOUS blue Rainbarrels G_RAMP CONTINUOUS white Ramps G_RETW CONTINUOUS 200 Retaining Wall G_SAND CONTINUOUS 253 Sand G_SECTION CONTINUOUS white Sections	G_PHOTO	CONTINUOUS	white	Photos
G_RAINBARREL CONTINUOUS blue Rainbarrels G_RAMP CONTINUOUS white Ramps G_RETW CONTINUOUS 200 Retaining Wall G_SAND CONTINUOUS 253 Sand G_SECTION CONTINUOUS white Sections	G_PIPE	CONTINUOUS	40	Pipes
G_RAMPCONTINUOUSwhiteRampsG_RETWCONTINUOUS200Retaining WallG_SANDCONTINUOUS253SandG_SECTIONCONTINUOUSwhiteSections	G_POLE	CONTINUOUS	white	Poles
G_RETW CONTINUOUS 200 Retaining Wall G_SAND CONTINUOUS 253 Sand G_SECTION CONTINUOUS white Sections	G_RAINBARREL	CONTINUOUS	blue	Rainbarrels
G_SAND CONTINUOUS 253 Sand G_SECTION CONTINUOUS white Sections	G_RAMP	CONTINUOUS	white	Ramps
G_SECTION CONTINUOUS white Sections	G_RETW	CONTINUOUS	200	Retaining Wall
	G_SAND	CONTINUOUS	253	Sand
G_SHRUB CONTINUOUS 74 Shrubs	G_SECTION	CONTINUOUS	white	Sections
	G_SHRUB	CONTINUOUS	74	Shrubs
G_SIDEWALK CONTINUOUS white Sidewalk	G_SIDEWALK	CONTINUOUS	white	Sidewalk
G_SIDEWALK_SCORE CONTINUOUS 254 Sidewalk	G_SIDEWALK_SCORE	CONTINUOUS	254	Sidewalk
G_SIGN CONTINUOUS white Sign	G_SIGN	CONTINUOUS	white	Sign

Layer Name	Linetype	Colour	Description
G_SOIL_LINE	DASHED2	35	Soil Line
G_SPEEDHUMP	CONTINUOUS	yellow	Speed Hump
G_STREETLIGHT	CONTINUOUS	white	Street Light
G_STRUCTURES	CONTINUOUS	red	Structure
G_TEXT	CONTINUOUS	white	Text
G_TRASH_RECEPTACLE	CONTINUOUS	blue	Trash
G_TREE	CONTINUOUS	green	Tree
G_VEGETATION_EX	CONTINUOUS	60	Vegetation
G_VEHICLE	CONTINUOUS	blue	Vehicle
G_VIEWPOINT	CONTINUOUS	white	Viewpoint
G_WATER_FIRE_HYDRANT	CONTINUOUS	red	Fire Hydrant
G_WOOD_EDGE	CONTINUOUS	34	Edge of Wood

# 15.4 Property Base Layers

Layer name	Line type	Colour	Description
P_ADDRESS	CONTINUOUS	6	Street addresses
P_ASSESSMENT_CODE	CONTINUOUS	6	Coding Numbers
P_BLOCK_NUMBER	CONTINUOUS	144	Block numbers
P_DISTRICT_LOT_NUMBER	CONTINUOUS	144	District lot number
P_DISTRICT_LOT_LINE	CONTINUOUS	144	District lot boundary
P_EASEMENT	DASHEDX2	111	Easements
P_LOT_LINE	CONTINUOUS	76	Lot line
P_LOT_LINE_LBL	CONTINUOUS	WHITE	Lot line survey plan dimensions
P_LOT_NUMBER	CONTINUOUS	144	Lot number
P_PARK_ANNOTATION	CONTINUOUS	117	Park and School names
P_PLAN_NUMBER	CONTINUOUS	144	Survey Plan numbers
P_PROPERTY_LINE	CONTINUOUS	80	Property lines
P_PROPERTY_LINE_LBL	CONTINUOUS	WHITE	Property line survey plan dimensions

### 15.5 Streets Layers

Layer name	Line type	Colour	Description
ST_APRON	CONTINUOUS	8	Apron
ST_ASPH_CURB	CONTINUOUS	8	Asphalt Curb
ST_ASPH_GUT	DASHED2	111	Asphalt Gutter
ST_ASPH_PAD	CONTINUOUS	8	Asphalt Pad
ST_ASPH_WALK	CONTINUOUS	8	Asphalt Walk
ST_BANK	DASHED	34	Bank (Top or Bottom)
ST_BASELINE	PHANTOM2	6	Baseline
ST_BG	CONTINUOUS	4	Building Grade
ST_BG_POLY	CONTINUOUS	4	Building Grade Polygon
ST_BLVD	CONTINUOUS	114	Boulevard (Edge)
ST_BRICK_PAVERS	CONTINUOUS	253	Brick Pavers
ST_BRICK_WALK	CONTINUOUS	253	Brick Walk
ST_CB	CONTINUOUS	110	Catch Basin
ST_CL	CENTER2	121	Centerline
ST_COBBLESTONE	CONTINUOUS	253	Cobblestone

Layer name	Line type	Colour	Description
ST_CONC_AGG	CONTINUOUS	253	Exposed Aggregate
ST_CONC_BARRIER	CONTINUOUS	152	Concrete Barrier
ST_CONC_BOX	CONTINUOUS	134	Concrete Box
ST_CONC_EXP_JNT	CONTINUOUS	1	Concrete Expansion Joint
ST_CONC_PAD	CONTINUOUS	134	Concrete Pad
ST_CONC_PAVERS	CONTINUOUS	253	Concrete Pavers
ST_CONC_PAVMT	CONTINUOUS	134	Concrete Pavement
ST_CONC_SIGN	CONTINUOUS	10	Concrete Sign Base
ST_CONC_STAMPED	CONTINUOUS	253	Concrete Stamped
ST_CONC_WALK	CONTINUOUS	140	Concrete Walk
ST_CONSTRUCT	CONTINUOUS	21	Construction (linework)
ST_CONSTRUCT_BASE	CONTINUOUS	241	Construction Base (linework)
ST_CULVERT	HIDDEN	110	Culvert
ST_CURB	CONTINUOUS	20	Curb
ST_DESIGN_CB	CONTINUOUS	110	Design Catch Basin
ST_DESIGN_CONC_WALK	CONTINUOUS	6	Design Concrete Walk
ST_DESIGN_CURB	CONTINUOUS	4	Design Curb
ST_DESIGN_GUTTER	CONTINUOUS	4	Design Gutter
ST_DIMENSIONS	CONTINUOUS	8	Dimensions
ST_DISTRICTS	CONTINUOUS	62	Districts
ST_DITCH	DASHDOT2	15	Ditch
ST_DOWNPIPE	CONTINUOUS	110	Downpipe
ST_DWAY	CONTINUOUS	130	Driveway
ST_ENTW	CONTINUOUS	140	Entrance Walk
ST_EOP	DASHEDX2	8	Edge of Pavement
ST_FENCE	DASHDOT2	42	Fence
ST_FIX_BENCH	CONTINUOUS	42	Fixture Bench
ST_FIX_BIKERACK	CONTINUOUS	5	Fixture Bikerack
ST_FIX_BOLLARD	CONTINUOUS	1	Fixture Bollard
ST_FIX_BUS_SHELTER	CONTINUOUS	162	Fixture Bus Shelter
ST_FIX_FLAGPOLE	CONTINUOUS	212	Fixture Flagpole
ST_FIX_GARBAGE_BIN	CONTINUOUS	42	Fixture Garbage Bin
ST_FIX_GUARDRAIL	CONTINUOUS	5	Fixture Guardrail
ST_FIX_PATIO	CONTINUOUS	32	Fixture Patio
ST_FIX_PLANTER	CONTINUOUS	110	Fixture Planter
ST_GRASS	CONTINUOUS	76	Grass
ST_GRAVEL	DASHED	8	Gravel
ST_GUTTER	CONTINUOUS	112	Gutter
ST_LANELINE	DASHED	52	Laneline
ST_MISC	CONTINUOUS	2	Miscellaneous
ST OFFSET	HIDDEN	21	Offset (Staking)
ST_PL	CONTINUOUS	83	Property Line (Streets)
ST_RETW	CONTINUOUS	200	Retaining Wall
ST_SCRW_CL	CENTER2	52	Screening Walk
ST_SCRW_EDGE	HIDDEN	52	Screening Walk Edge
ST_SEGMENT	CONTINUOUS	WHITE	GIS Street Centerline
ST_SEGMENT_LBL	CONTINUOUS	WHITE	Street Name
ST_STATION	CONTINUOUS	183	Station
31_31A110N	CONTINUOUS	103	Station

Layer name	Line type	Colour	Description
ST_STEPS	CONTINUOUS	140	Steps
ST_STONEW	CONTINUOUS	145	Stone Wall
ST_TRAFFIC_CIRCLE	CONTINUOUS	20	Traffic Circle
ST_TREE	CONTINUOUS	111	Tree
ST_WCURB	CONTINUOUS	42	Wood Curb
ST_WHEELCHAIR_RAMP	CONTINUOUS	232	Wheelchair Ramp
ST_WHLCHAIR	CONTINUOUS	232	Wheelchair
ST_XING	CONTINUOUS	20	Crossing
ST_ALBL	CONTINUOUS	140	Station Label
ST_APTS	CONTINUOUS	140	Station Points

### 15.6 Street Lighting Base Layers

Layer name	Line type	Colour	Description
SL_BOX_PULL	CONTINUOUS	WHITE	Pull Box
SL_BOX_SPLICE	CONTINUOUS	WHITE	Splice Box
SL_CROSSING	CONTINUOUS	WHITE	Crossing
SL_DUCT_DIRECT	DOT2	WHITE	Direct Duct
SL_DUCT_DIRECT_LABEL	CONTINUOUS	WHITE	Direct Duct Label
SL_DUCT_FIBRE	FIBRE	6	Fibre Duct
SL_DUCT_FIBRE_LABEL	CONTINUOUS	6	Fibre Duct Label
SL_DUCT_KORDUCT	KORDUCT	6	Korduct Duct
SL_DUCT_KORDUCT_LABEL	CONTINUOUS	6	Korduct Duct Label
SL_DUCT_NONMETALLIC	DASHED2	3	Non Metallic Duct
SL_DUCT_NONMETALLIC_LABEL	CONTINUOUS	3	Non Metallic Duct Label
SL_DUCT_OVERHEAD	OVERHEAD	WHITE	Overhead Duct
SL_DUCT_OVERHEAD_LABEL	CONTINUOUS	WHITE	Overhead Duct Label
SL_DUCT_POLY	POLY	RED	Poly Duct
SL_DUCT_POLY_LABEL	CONTINUOUS	RED	Poly Duct
SL_DUCT_RIGID	CONTINUOUS	RED	Rigid Duct
SL_DUCT_RIGID_LABEL	CONTINUOUS	RED	Rigid Duct
SL_NODE_OTHER	CONTINUOUS	WHITE	Misc Pole
SL_NODE_POLE_COMBO_30	CONTINUOUS	WHITE	30 ft Combo Pole
SL_NODE_POLE_DAVIT_25	CONTINUOUS	WHITE	25 ft Davit Pole
SL_NODE_POLE_DAVIT_30	CONTINUOUS	WHITE	30 ft Davit Pole
SL_NODE_POLE_DECORATIVE	CONTINUOUS	WHITE	Decorative Pole
SL_NODE_POLE_TROLLEY	CONTINUOUS	WHITE	Trolley Pole
SL_NODE_POLE_WOOD	CONTINUOUS	WHITE	Wood Pole
SL_NODE_POWERSOURCE	CONTINUOUS	WHITE	Powersource
SL_OFFSET	CONTINUOUS	162	Offset
SL_OLS	CONTINUOUS	10	Ornamental Lamp Standard
SL_SERVICEPANEL	CONTINUOUS	WHITE	Service Panel
SL_SRVPNL_LBL	CONTINUOUS	162	Service Panel label

# 15.7 Sewer Base Layers

Layer name	Line type	Colour	Description
S_CASINGPIPE	CASING PIPE	203	SEWER CASINGPIPE
S_CASINGPIPE_LBL	CONTINUOUS	203	SEWER CASINGPIPE LABEL

Layer name	Line type	Colour	Description
S_COMBINED_ANNOTATION_LEFTARROW	CONTINUOUS	magenta	SEWER COMBINED ANNOTATION LEFTARROW
S_COMBINED_ANNOTATION_RIGHTARROW	CONTINUOUS	magenta	SEWER COMBINED ANNOTATION RIGHTARROW
S_COMBINED_ANNOTATION_STRAIGHTARROW	CONTINUOUS	magenta	SEWER COMBINED ANNOTATION STRAIGHTARROW
S_COMBINED_CATCHBASIN_SUMP	CONTINUOUS	magenta	SEWER COMBINED CATCHBASIN SUMP
S_COMBINED_CATCHBASIN_SUMP_LBL	CONTINUOUS	magenta	SEWER COMBINED CATCHBASIN SUMP LABEL
S_COMBINED_CATCHMENT	CONTINUOUS	magenta	SEWER COMBINED CATCHMENT
S_COMBINED_CHAMBER_ENERGYDISSIPATOR	CONTINUOUS	magenta	SEWER COMBINED CHAMBER ENERGYDISSIPATOR
S_COMBINED_CHAMBER_GRIT	CONTINUOUS	magenta	SEWER COMBINED CHAMBER GRIT
S_COMBINED_CHAMBER_JUNCTION	CONTINUOUS	magenta	SEWER COMBINED CHAMBER JUNCTION
S_COMBINED_CHAMBER_SEPARATOR	CONTINUOUS	magenta	SEWER COMBINED CHAMBER SEPARATOR
S_COMBINED_CHANGEOFGRADE	CONTINUOUS	magenta	SEWER COMBINED CHANGEOFGRADE
S_COMBINED_CHANGEOFMATERIAL	CONTINUOUS	magenta	SEWER COMBINED CHANGEOFMATERIAL
S_COMBINED_CONNECTION	CONTINUOUS	magenta	SEWER COMBINED CONNECTION
S_COMBINED_CONNECTION_LBL	CONTINUOUS	magenta	SEWER COMBINED CONNECTION LABEL
S_COMBINED_CROSSOVER	CONTINUOUS	magenta	SEWER COMBINED CROSSOVER
S COMBINED DUMMYNODE	CONTINUOUS	magenta	SEWER COMBINED DUMMYNODE
S_COMBINED_FITTING_BEND	CONTINUOUS	magenta	SEWER COMBINED FITTING BEND
S_COMBINED_FITTING_BEND_LBL	CONTINUOUS	magenta	SEWER COMBINED FITTING BEND LABEL
S_COMBINED_FITTING_OUTFALL	CONTINUOUS	magenta	SEWER COMBINED FITTING OUTFALL
S_COMBINED_FITTING_OUTFALL_LBL	CONTINUOUS	magenta	SEWER COMBINED FITTING OUTFALL LABEL
S_COMBINED_FITTING_PLUG	CONTINUOUS	magenta	SEWER COMBINED FITTING COTTALE LABEE
S_COMBINED_FITTING_REDUCER	CONTINUOUS	magenta	SEWER COMBINED FITTING FEDUCER
S_COMBINED_FLOW_BOTTOMARROW	CONTINUOUS		SEWER COMBINED FLOW BOTTOMARROW
	CONTINUOUS	magenta	SEWER COMBINED FLOW BOTTOMARROW  SEWER COMBINED FLOW LEFTARROW
S_COMBINED_FLOW_LEFTARROW		magenta	
S_COMBINED_FLOW_TOPARDOW	CONTINUOUS	magenta	SEWER COMBINED FLOW TODARDOW
S_COMBINED_FLOW_TOPARROW	CONTINUOUS	magenta	SEWER COMBINED FLOW TOPARROW
S_COMBINED_MAIN	CONTINUOUS	magenta	SEWER COMBINED MAIN
S_COMBINED_MAIN_LBL	CONTINUOUS	magenta	SEWER COMBINED MAIN LABEL
S_COMBINED_MANHOLE	CONTINUOUS	magenta	SEWER COMBINED MANHOLE
S_COMBINED_MANHOLE_CLEANOUT	CONTINUOUS	magenta	SEWER COMBINED MANHOLE CLEANOUT
S_COMBINED_MANHOLE_CLEANOUT_LBL	CONTINUOUS	magenta	SEWER COMBINED MANHOLE CLEANOUT LABEL
S_COMBINED_MANHOLE_LAMPHOLE	CONTINUOUS	magenta	SEWER COMBINED MANHOLE LAMPHOLE
S_COMBINED_MANHOLE_LAMPHOLE_LBL	CONTINUOUS	magenta	SEWER COMBINED MANHOLE LAMPHOLE LABEL
S_COMBINED_MANHOLE_LBL	CONTINUOUS	magenta	SEWER COMBINED MANHOLE LABEL
S_COMBINED_RAMP	CONTINUOUS	magenta	SEWER COMBINED RAMP
S_COMBINED_RAMP_LBL	CONTINUOUS	magenta	SEWER COMBINED RAMP LABEL
S_COMBINED_VALVE_AIR	CONTINUOUS	magenta	SEWER COMBINED VALVE AIR
S_COMBINED_VALVE_BACKWATER	CONTINUOUS	magenta	SEWER COMBINED VALVE BACKWATER
S_COMBINED_VALVE_CHECK	CONTINUOUS	magenta	SEWER COMBINED VALVE CHECK
S_COMBINED_VALVE_FLAPGATE	CONTINUOUS	magenta	SEWER COMBINED VALVE FLAPGATE
S_COMBINED_VALVE_GATE	CONTINUOUS	magenta	SEWER COMBINED VALVE GATE
S_COMBINED_VALVE_HTCTANK	CONTINUOUS	magenta	SEWER COMBINED VALVE HTCTANK
S_COMBINED_VALVE_TIDEGATE	CONTINUOUS	magenta	SEWER COMBINED VALVE TIDEGATE
S_DIMENSION	CONTINUOUS	white	SEWER DIMENSION
S_DIMENSION_LEADER	CONTINUOUS	45	SEWER DIMENSION LEADER
S_PUMP_STATION	CONTINUOUS	cyan	SEWER PUMP STATION
S_PUMP_STATION_LBL	CONTINUOUS	cyan	SEWER PUMP STATION LABEL
S_SANITARY_ANNOTATION_LEFTARROW	CONTINUOUS	red	SEWER SANITARY ANNOTATION LEFTARROW
S_SANITARY_ANNOTATION_RIGHTARROW	CONTINUOUS	red	SEWER SANITARY ANNOTATION RIGHTARROW
S_SANITARY_ANNOTATION_STRAIGHTARROW	CONTINUOUS	red	SEWER SANITARY ANNOTATION STRAIGHTARROW
S_SANITARY_CATCHBASIN_SUMP	CONTINUOUS	red	SEWER SANITARY CATCHBASIN SUMP

Layer name	Line type	Colour	Description
S_SANITARY_CATCHBASIN_SUMP_LBL	CONTINUOUS	red	SEWER SANITARY CATCHBASIN SUMP LABEL
S_SANITARY_CHAMBER_ENERGYDISSIPATOR	CONTINUOUS	red	SEWER SANITARY CHAMBER ENERGYDISSIPATOR
S_SANITARY_CHAMBER_GRIT	CONTINUOUS	red	SEWER SANITARY CHAMBER GRIT
S_SANITARY_CHAMBER_JUNCTION	CONTINUOUS	red	SEWER SANITARY CHAMBER JUNCTION
S_SANITARY_CHAMBER_SEPARATOR	CONTINUOUS	red	SEWER SANITARY CHAMBER SEPARATOR
S_SANITARY_CHANGEOFGRADE	CONTINUOUS	red	SEWER SANITARY CHANGEOFGRADE
S_SANITARY_CHANGEOFMATERIAL	CONTINUOUS	red	SEWER SANITARY CHANGEOFMATERIAL
S_SANITARY_CONNECTION	CONTINUOUS	red	SEWER SANITARY CONNECTION
S_SANITARY_CONNECTION_LBL	CONTINUOUS	red	SEWER SANITARY CONNECTION LABEL
S_SANITARY_CROSSOVER	CONTINUOUS	red	SEWER SANITARY CROSSOVER
S_SANITARY_DUMMYNODE	CONTINUOUS	red	SEWER SANITARY DUMMYNODE
S_SANITARY_FITTING_BEND	CONTINUOUS	red	SEWER SANITARY FITTING BEND
S_SANITARY_FITTING_BEND_LBL	CONTINUOUS	red	SEWER SANITARY FITTING BEND LABEL
S_SANITARY_FITTING_PLUG	CONTINUOUS	red	SEWER SANITARY FITTING PLUG
S_SANITARY_FITTING_REDUCER	CONTINUOUS	red	SEWER SANITARY FITTING REDUCER
S_SANITARY_MAIN	CONTINUOUS	red	SEWER SANITARY MAIN
S_SANITARY_MAIN_LBL	CONTINUOUS	red	SEWER SANITARY MAIN LABEL
S_SANITARY_MANHOLE	CONTINUOUS	red	SEWER SANITARY MANHOLE
S_SANITARY_MANHOLE_CLEANOUT	CONTINUOUS	red	SEWER SANITARY MANHOLE CLEANOUT
S_SANITARY_MANHOLE_CLEANOUT_LBL	CONTINUOUS	red	SEWER SANITARY MANHOLE CLEANOUT LABEL
S_SANITARY_MANHOLE_LAMPHOLE	CONTINUOUS	red	SEWER SANITARY MANHOLE LAMPHOLE
S_SANITARY_MANHOLE_LAMPHOLE_LBL	CONTINUOUS	red	SEWER SANITARY MANHOLE LAMPHOLE LABEL
S_SANITARY_MANHOLE_LBL	CONTINUOUS	red	SEWER SANITARY MANHOLE LABEL
S_SANITARY_RAMP	CONTINUOUS	red	SEWER SANITARY RAMP
S_SANITARY_RAMP_LBL	CONTINUOUS	red	SEWER SANITARY RAMP LABEL
S_SANITARY_VALVE_AIR	CONTINUOUS	red	SEWER SANITARY VALVE AIR
S_SANITARY_VALVE_BACKWATER	CONTINUOUS	red	SEWER SANITARY VALVE BACKWATER
S_SANITARY_VALVE_CHECK	CONTINUOUS	red	SEWER SANITARY VALVE CHECK
S_SANITARY_VALVE_FLAPGATE	CONTINUOUS	red	SEWER SANITARY VALVE FLAPGATE
S_SANITARY_VALVE_GATE	CONTINUOUS	red	SEWER SANITARY VALVE GATE
S_SANITARY_VALVE_HTCTANK	CONTINUOUS	red	SEWER SANITARY VALVE HTCTANK
S_SANITARY_VALVE_TIDEGATE	CONTINUOUS	red	SEWER SANITARY VALVE TIDEGATE
S_STORM_ANNOTATION_LEFTARROW	CONTINUOUS	green	SEWER STORM ANNOTATION LEFTARROW
S_STORM_ANNOTATION_RIGHTARROW	CONTINUOUS	green	SEWER STORM ANNOTATION RIGHTARROW
S_STORM_ANNOTATION_STRAIGHTARROW	CONTINUOUS	green	SEWER STORM ANNOTATION STRAIGHTARROW
S STORM CATCHBASIN	CONTINUOUS	green	SEWER STORM CATCHBASIN
S_STORM_CATCHBASIN_LBL	CONTINUOUS	green	SEWER STORM CATCHBASIN LABEL
S_STORM_CATCHBASIN_SUMP	CONTINUOUS	green	SEWER STORM CATCHBASIN SUMP
S_STORM_CATCHBASIN_SUMP_LBL	CONTINUOUS	green	SEWER STORM CATCHBASIN SUMP LABEL
S_STORM_CHAMBER_ENERGYDISSIPATOR	CONTINUOUS	green	SEWER STORM CHAMBER ENERGYDISSIPATOR
S_STORM_CHAMBER_GRIT	CONTINUOUS	green	SEWER STORM CHAMBER GRIT
S_STORM_CHAMBER_JUNCTION	CONTINUOUS	green	SEWER STORM CHAMBER JUNCTION
S_STORM_CHAMBER_SEPARATOR	CONTINUOUS	green	SEWER STORM CHAMBER SEPARATOR
S_STORM_CHANGEOFGRADE	CONTINUOUS	green	SEWER STORM CHANGEOFGRADE
S STORM CHANGEOFMATERIAL	CONTINUOUS	green	SEWER STORM CHANGEOFMATERIAL
S_STORM_CONNECTION	CONTINUOUS	green	SEWER STORM CONNECTION
S_STORM_CONNECTION_LBL	CONTINUOUS	green	SEWER STORM CONNECTION LABEL
S_STORM_CROSSOVER	CONTINUOUS	green	SEWER STORM CROSSOVER
S_STORM_DUMMYNODE	CONTINUOUS	green	SEWER STORM DUMMYNODE
S_STORM_FITTING_BEND	CONTINUOUS	green	SEWER STORM FITTING BEND
S_STORM_FITTING_BEND_LBL	CONTINUOUS	green	SEWER STORM FITTING BEND LABEL
2_31ONW_LITTING_DENU_LDL	CONTINUOUS	green	SEANTIV STOUMLITH LING DEIND FWDEF

Layer name	Line type	Colour	Description
S_STORM_FITTING_OUTFALL	CONTINUOUS	green	SEWER STORM FITTING OUTFALL
S_STORM_FITTING_OUTFALL_LBL	CONTINUOUS	green	SEWER STORM FITTING OUTFALL LABEL
S_STORM_FITTING_PLUG	CONTINUOUS	green	SEWER STORM FITTING PLUG
S_STORM_FITTING_REDUCER	CONTINUOUS	green	SEWER STORM FITTING REDUCER
S_STORM_MAIN	CONTINUOUS	green	SEWER STORM MAIN
S_STORM_MAIN_LBL	CONTINUOUS	green	SEWER STORM MAIN LABEL
S_STORM_MANHOLE	CONTINUOUS	green	SEWER STORM MANHOLE
S_STORM_MANHOLE_CLEANOUT	CONTINUOUS	green	SEWER STORM MANHOLE CLEANOUT
S_STORM_MANHOLE_CLEANOUT_LBL	CONTINUOUS	green	SEWER STORM MANHOLE CLEANOUT LABEL
S_STORM_MANHOLE_LAMPHOLE	CONTINUOUS	green	SEWER STORM MANHOLE LAMPHOLE
S_STORM_MANHOLE_LAMPHOLE_LBL	CONTINUOUS	green	SEWER STORM MANHOLE LAMPHOLE LABEL
S_STORM_MANHOLE_LBL	CONTINUOUS	green	SEWER STORM MANHOLE LABEL
S_STORM_RAMP	CONTINUOUS	green	SEWER STORM RAMP
S_STORM_RAMP_LBL	CONTINUOUS	green	SEWER STORM RAMP LABEL
S_STORM_VALVE_AIR	CONTINUOUS	green	SEWER STORM VALVE AIR
S_STORM_VALVE_BACKWATER	CONTINUOUS	green	SEWER STORM VALVE BACKWATER
S_STORM_VALVE_CHECK	CONTINUOUS	green	SEWER STORM VALVE CHECK
S_STORM_VALVE_FLAPGATE	CONTINUOUS	green	SEWER STORM VALVE FLAPGATE
S_STORM_VALVE_GATE	CONTINUOUS	green	SEWER STORM VALVE GATE
S_STORM_VALVE_HTCTANK	CONTINUOUS	green	SEWER STORM VALVE HTC TANK
S_STORM_VALVE_TIDEGATE	CONTINUOUS	green	SEWER STORM VALVE TIDEGATE

# 15.8 Water Base Layers

Layer name	Line type	Colour	Description
		WHITE	Abandoned Chamber
W_ABANDONED_CHAMBER	DASHED		
W_ABANDONED_LATERAL_HYDRANTFEEDER	DASHED	WHITE	Abandoned Hydrant Feeder
W_ABANDONED_LATERAL_SERVICE	DASHED	WHITE	Abandoned Water Service
W_ABANDONED_MAIN	DASHED	WHITE	Abandoned Water Main
W_DFPS_CONTROLVALVE_HYDRANTFEEDER	DASHED	9	DFPS Control Valve
W_DFPS_CONTROLVALVE_LARGE	DASHED	9	DFPS Large Control Valve
W_DFPS_FIREHYDRANT	DASHED	9	DFPS Fire Hydrant
W_DFPS_FITTING_BEND	DASHED	9	DFPS Bend
W_DFPS_FITTING_REDUCER	DASHED	9	DFPS Reducer
W_DFPS_LATERAL_HYDRANTFEEDER	CONTINUOUS	9	DFPS Hydrant Feeder
W_DFPS_MAIN	CONTINUOUS	9	Distribution Water Main
W_DISTRIBUTION_CHAMBER	CONTINUOUS	BLUE	Distribution Chamber
W_DISTRIBUTION_CONTROLVALVE_HYDRANTFEEDER	CONTINUOUS	BLUE	Distribution Control Valve for Hydrant Feeder
W_DISTRIBUTION_CONTROLVALVE_SERVICE	CONTINUOUS	BLUE	Distribution Control Valve for Service
W_DISTRIBUTION_CONTROLVALVE_SMALL	CONTINUOUS	BLUE	Small Distribution Control Valve
W_DISTRIBUTION_FIREHYDRANT	CONTINUOUS	BLUE	Distribution Fire Hydrant
W_DISTRIBUTION_FITTING_BEND	CONTINUOUS	BLUE	Distribution Bend
W_DISTRIBUTION_FITTING_REDUCER	CONTINUOUS	BLUE	Distribution Reducer
W_DISTRIBUTION_LATERAL_HYDRANTFEEDER	CONTINUOUS	BLUE	Distribution Lateral Hydrant Feeder
W_DISTRIBUTION_LATERAL_SERVICE	CONTINUOUS	BLUE	Distribution Lateral Service
W_DISTRIBUTION_MAIN	CONTINUOUS	BLUE	Distribution Water Main
W_DISTRIBUTION_METER	CONTINUOUS	BLUE	Distribution Meter
W_DISTRIBUTION_PIGOUT	CONTINUOUS	BLUE	Distribution Pigout
W_DISTRIBUTION_SAMPLINGSTATION	CONTINUOUS	BLUE	Distribution Sampling Station
W_PRESSURE_ZONE	CONTINUOUS	BLUE	Water Pressure Zone

Layer name	Line type	Colour	Description
W_TRANSMISSION_AIRVALVE	CONTINUOUS	BLUE	Transmission Air Valve
W_TRANSMISSION_BACKFLOWPREVENTION	CONTINUOUS	BLUE	Transmission Backflow Prevention
W_TRANSMISSION_BLOWOFF	CONTINUOUS	BLUE	Transmission Blowoff
W_TRANSMISSION_CASINGPIPE	CONTINUOUS	BLUE	Transmission Casing Pipe
W_TRANSMISSION_CHAMBER_DOUBLECHECK	CONTINUOUS	BLUE	Transmission Chamber Double Check Valve
W_TRANSMISSION_CHAMBER_LARGE_VALVE	CONTINUOUS	BLUE	Large Transmission Chamber Valve
W_TRANSMISSION_CHAMBER_METER	CONTINUOUS	BLUE	Transmission Chamber Meter
W_TRANSMISSION_CHAMBER_PRVSTATION	CONTINUOUS	BLUE	Transmission Chamber PRV Station
W_TRANSMISSION_CHAMBER_RECHLORINATION	CONTINUOUS	BLUE	Transmission Re-chlorination Chamber
W_TRANSMISSION_CONTROLVALVE_HYDRANTFEEDER	CONTINUOUS	BLUE	Transmission Control Valve for Hydrant Feeder
W_TRANSMISSION_CONTROLVALVE_LARGE	CONTINUOUS	BLUE	Large Transmission Control Valve
W_TRANSMISSION_CONTROLVALVE_SERVICE	CONTINUOUS	BLUE	Transmission Service Control Valve
W_TRANSMISSION_FIREHYDRANT	CONTINUOUS	BLUE	Transmission Fire Hydrant
W_TRANSMISSION_FITTING_BEND	CONTINUOUS	BLUE	Transmission Bend
W_TRANSMISSION_FITTING_REDUCER	CONTINUOUS	BLUE	Transmission Reducer
W_TRANSMISSION_LATERAL_HYDRANTFEEDER	CONTINUOUS	BLUE	Transmission Hydrant Feeder
W_TRANSMISSION_LATERAL_SERVICE	CONTINUOUS	BLUE	Transmission Service
W_TRANSMISSION_MAIN	CONTINUOUS	BLUE	Transmission Main
W_TRANSMISSION_PRVSTATION	CONTINUOUS	BLUE	Transmission PRV Station

# 15.9 Transportation Base Layers

Layer name	LineType	Colour	Description
T_BOLLARD	CONTINUOUS	BLACK	Bollard
T_CB	CONTINUOUS	110	Catch Basin
T_CROSSING	CONTINUOUS	BLACK	Crossing
T_DWAY	CONTINUOUS	130	Driveway
T_EASE	CONTINUOUS	111	Easement
T_EOP	CONTINUOUS	8	Edge of Pavement
T_FENCE	DASHDOT2	42	Fence
T_GUTTER	CONTINUOUS	CYAN	Gutter
T_HYDRANT	CONTINUOUS	BLUE	Hydrant
T_PAINT_WHITE	CONTINUOUS	6	White Paint
T_PAINT_YELLOW	CONTINUOUS	2	Yellow Paint
T_PAINT_rm	CONTINUOUS	RED	Paint to be removed
T_PARKING_REGS	CONTINUOUS	BLACK	Parking Regulations
T_POLE	CONTINUOUS	BLACK	Pole
T_PROP_LINE	CONTINUOUS	80	Property Line
T_RAMP	CONTINUOUS	BLACK	Curb Ramp
T_RETW	CONTINUOUS	200	Retaining Wall
T_SIGN	CONTINUOUS	BLACK	Sign
T_SPEEDHUMP	CONTINUOUS	110	Speedhump
T_SW	CONTINUOUS	140	Sidewalk
T_TREE	CONTINUOUS	BLACK	Tree

# 15.10 Utility Base Layers

Layer Name	Linetype	Colour	Description
U_GAS_MAIN	CONTINUOUS	WHITE	Terasen Gas Main

Layer Name	Linetype	Colour	Description
U_GAS_MAIN_ABANDONED	CONTINUOUS	WHITE	Abandoned Gas Main
U_HYDRO_DISTRIBUTION_BOX	CONTINUOUS	241	Hydro Distribution Box
U_HYDRO_DISTRIBUTION_DUCT	CONTINUOUS	241	Hydro Distribution Duct
U_HYDRO_DISTRIBUTION_MANHOLE	CONTINUOUS	241	Hydro Distribution Manhole
U_HYDRO_DISTRIBUTION_POLE	CONTINUOUS	241	Hydro Distribution Pole
U_HYDRO_DISTRIBUTION_STUB	CONTINUOUS	241	Hydro Distribution Stub
U_HYDRO_DUCT_ABANDONED	CONTINUOUS	241	Abandoned Hydro Distribution Duct
U_HYDRO_SUBSTATION	CONTINUOUS	241	Hydro Substation
U_HYDRO_TRANSMISSION_DUCT	CONTINUOUS	241	Hydro Transmission Duct
U_RESERVED_CORRIDOR	CONTINUOUS	80	Utility Reserved Corridor
U_STEAMHEAT_CHAMBER	CONTINUOUS	113	Steamheat Chamber
U_STEAMHEAT_MANHOLE	CONTINUOUS	113	Steamheat Manhole
U_STEAMHEAT_PIPE	CONTINUOUS	113	Steamheat Pipe
U_TELCO_BOX_SHAW_CABLE	CONTINUOUS	40	Shaw Cable Box
U_TELCO_BOX_TELUS	CONTINUOUS	40	Telus Box
U_TELCO_BOX_UNITEL	CONTINUOUS	40	Unitel Box
U_TELCO_BOX_URBAN_NETWORKS	CONTINUOUS	40	Urban Networks Box
U_TELCO_DUCT_360NETWORKS	CONTINUOUS	40	360 Networks Duct
U_TELCO_DUCT_ABANDONED	CONTINUOUS	40	Abandoned Duct
U_TELCO_DUCT_ALL_STREAM	CONTINUOUS	40	All Stream Duct
U_TELCO_DUCT_BELL_WEST	CONTINUOUS	40	Bell West Duct
U_TELCO_DUCT_LONDON_CONNECT	CONTINUOUS	40	London Connect Duct
U_TELCO_DUCT_NOVUS	CONTINUOUS	40	Novus Duct
U_TELCO_DUCT_SHAW_CABLE	CONTINUOUS	40	Shaw Cable Duct
U_TELCO_DUCT_TELUS	CONTINUOUS	40	Telus Duct
U_TELCO_DUCT_TERASPAN	CONTINUOUS	40	Teraspan Duct
U_TELCO_DUCT_URBAN_NETWORKS	CONTINUOUS	40	Urban Networks Duct
U_TELCO_MANHOLE_360_NETWORKS	CONTINUOUS	40	360 Networks Duct
U_TELCO_MANHOLE_ALL_STREAM	CONTINUOUS	40	All Stream Manhole
U_TELCO_MANHOLE_NOVUS	CONTINUOUS	40	Novus Manhole
U_TELCO_MANHOLE_SHAW_CABLE	CONTINUOUS	40	Shaw Cable Manhole
U_TELCO_MANHOLE_TELUS	CONTINUOUS	40	Telus Manhole
U_TELCO_MANHOLE_UNITEL	CONTINUOUS	40	Unitel Manhole
U_TELCO_MANHOLE_URBAN_NETWORKS	CONTINUOUS	40	Urban Networks Manhole
U_TELCO_POLE_SHAW_CABLE	CONTINUOUS	40	Shaw Cable Pole
U_TELCO_POLE_TELUS	CONTINUOUS	40	Telus Pole

### 15.11 Information Services

Layer name	Line type	Colour	Description
GEO_LANE_3D	CONTINUOUS	9	3D Lane Centerlines
GEO_STREET_3D	CONTINUOUS	WHITE	3d Street Centerlines

# 15.12 Point Layers for Land Development Desktop / Civil 3D

Point Layer	Symbol	Symbol Layer	Description
PT_ABUTMENT			ABUTMENT+
PT_AIRON	AIRON	P_AIRON	AIRON
PT_ALPOST	ALPOST	P_ALPOST	ALPOST

Point Layer	Symbol	Symbol Layer	Description
PT_APRON			APRON+
PT_ASPHCURB			ASPHCURB+
PT_ASPHGUT			ASPHGUT+
PT_ASPHPAD			ASPHPAD+
PT_ASPHW			ASPHWALK+
PT_BACKSTOP			BACKSTOP+
PT_BARRIER			BARRIER+
PT_BASELINE			BASELINE+
PT_BBANK			BBANK+
PT_BENCH	BENCHL	ST_FIX_BENCH	BENCH
PT_BENCH	BENCHR	ST_FIX_BENCH	BENCH
PT_BG			BG
PT_BIKERACK	BIKERAKL	ST_FIX_BIKERACK	BIKERACK
PT_BIKERACK	BIKERAKR	ST_FIX_BIKERACK	BIKERACK
PT_BLDG			BLDG+
PT_BLVD			BLVD+
PT_BOLLARD	BOLLARDL	ST_FIX_BOLLARD	BOLLARD
PT_BOLLARD	BOLLARDR	ST_FIX_BOLLARD	BOLLARD
PT_BUS			BUS_SHLTR
PT_CAPPOST	CAPPOSTF	P_CAPPOST	CPOST
PT_CB	СВ	ST_CB	CB
PT_CB	CBL	ST_CB	CB+
PT_CB	CBR	ST_CB	CB+
PT_CB_DESIGN	CBDL	ST_DESIGN_CB	DESIGNCB
PT_CB_DESIGN	CBDR	ST_DESIGN_CB	DESIGNOB
PT_CL	CDDIK	31_DE3IGIN_GD	CL+
PT_CNTRMON	CNTRMON	P_CNTRMON	\$*
PT_COLUMN	ONTHINOT	T_GRANGIA	COLUMN+
PT_COMPOST			COMPOST
PT_CONCBOX			CONCBOX
PT_CONCPAD			CONCPAD+
PT_CONCSIGN			CONCSIGN
PT_CONTROL	STA	P_CONTROL_PNT	*
PT_CPOST	CAPPOSTP	P_CAPPOST	CPOST
PT_CULVERT	07111 0011	1_0/11 001	CULVERT
PT_CURB			CURB+
PT_CW			BW+
PT_CW			FW+
PT_DITCH			DITCH+
PT_DLSIPOST	DLSIPOST	P_DLSIPOST	DLSIP
PT_DOWNPIPE	DESIFUST	I _DESII OST	DOWNPIPE
PT_DUGOUT			DUGOUT+
PT_DWAY			DWAY+
PT_ENTW			ENTW+
PT_ENTW			STEPS
PT_EOP			EOP+
PT_FENCE	TDOLE'	CT FIV FLACROLF	FENCE+
PT_FLAGPOLE	TPOLEL	ST_FIX_FLAGPOLE	FLAGPOLE

Symbol	Symbol Layer	Description
TPOLER	ST_FIX_FLAGPOLE	FLAGPOLE
		FOOTING+
		GARAGE+
		GARBAGE_BIN
		GAS_R_STA+
		GRAVEL+
		GP+
		GUARDRAIL
		GUTTER+
		GVRD_METER+
		HEDGE+
HYDL	W_HYD	HYD
HYDR	W_HYD	HYD
IRON_P	P_IRON_P	IRON_P
IRON_PP	P_IRON_P	IRON_P
E_JBOX	E_JBOX	JBOX
E_JBOXR		JBOX
		\$*
		LANEL+
LEAD_P	P_LEAD_P	LEAD_P
		LEAD_P
MH		GVRD_MH+
MH		H_MH+
MH		S_MH+
MH		T_MH+
MH		W_MH+
MON		**
NSRIPOST		NSRIP
NSSIPOST		NSSIP
		\$*+
OLSL	SL_OLS	LAMP STANDARD
OLSR	SL_OLS	LAMP STANDARD
		PATIO
PCONF	P_PCON	PCON
PCONP	P_PCON	PCON
PEDPOLEL		PEDPOLE
		PEDPOLE
	_	PI+
		PL+
		PLANTER
PANCHOR	H_POLE	PANCHOR
POLEL		POLE
		POLE
		WPOST
		PMETER_D
		PMETER_D
		PMETER_S
		PMETER_S
	TPOLER  TPOLER  TPOLER  HYDL  HYDR  IRON_P  IRON_PP  E_JBOX  E_JBOXR  LEAD_P  LEAD_PP  MH  MH  MH  MH  MH  MON  NSRIPOST  NSSIPOST  OLSL  OLSR  PCONF  PCONP  PEDPOLEL  PEDPOLER	TPOLER  ST_FIX_FLAGPOLE  HYDL  W_HYD  HYDR  W_HYD  HYDR  W_HYD  IRON_P  P_IRON_P  E_JBOX  E_JBOX  E_JBOX  E_JBOX  E_JBOX  LEAD_P  LEAD_P  LEAD_P  MH  GVRD_MH  MH  MH  MH  MH  MH  MH  MH  MH  MH

Point Layer	Symbol	Symbol Layer	Description
PT_PROCK	PROCKF	P_PROCK	PROCK
PT_PROCK	PROCKP	P_PROCK	PROCK
PT_RETW			RETW_B+
PT_RETW			RETW_T+
PT_RRPOLE	TSIGNL	RR_POLE	RRPOLE
PT_RRPOLE	TSIGNR	RR_POLE	RRPOLE
PT_SANDBOX			SANDBOX
PT_SCRW			SCRW+
PT_SHORE			SHORE+
PT_TBANK			TBANK+
PT_TPOLE	TPOLEL	H_TPOLE	TPOLE
PT_TPOLE	TPOLER	H_TPOLE	TPOLE
PT_TR_CIRCLE			TR_CIRCLE+
PT_TRACKS			RRTRACKS+
PT_TRAIL			TRAIL+
PT_TRAVHUB	TRAVHUB	P_TRAVHUB	TRAVHUB
PT_TRAVHUB	TRAVHUBP	P_TRAVHUB	TRAVHUB
PT_TREE	BUSHL	ST_TREE	BUSH
PT_TREE	BUSHR	ST_TREE	BUSH
PT_TREE	TREEL	ST_TREE	TREE
PT_TREE	TREER	ST_TREE	TREE
PT_TSIGN	TSIGNL	TR_TSIGN	TSIGN
PT_TSIGN	TSIGNR	TR_TSIGN	TSIGN
PT_UNMRKPNT	UNMRKPNT	P_UNMRKPNT	UNMRKPNT
PT_VALVE_G	VALVE	G_VALVE	VALVEG
PT_VALVE_W	VALVE	W_VALVE	VALVEW
PT_VENTSTK_GVRD	VENTGL	GVRD_VENTSTK	GVRD_VENT
PT_VENTSTK_GVRD	VENTGR	GVRD_VENTSTK	GVRD_VENT
PT_VENTSTK_W	VENTWL	W_VENTSTK	W_VENT
PT_VENTSTK_W	VENTWR	W_VENTSTK	W_VENT
PT_W_CHAMBER	WCHMBR	W_CHAMBER	W_CHAMBER
PT_WCURB			WCURB+
PT_WHLCHR			WHLCHR_R+
PT_WOODWALK			WOODBW+
PT_WPOST	WPOSTF	P_WPOST	WPOST
PT_WTMAIN			WTMAIN
PT_XING			XING+

### 15.13 Landfill Point Layers

Point Layer	Point Style	Point Label Style	Description
PT_ASBESTOS	ASBESTOS	ASBESTOS	ASBESTOS+
PT_ASPHCURB	ASPHCURB	ASPHCURB	ASPHCURB+
PT_ASPHGUT	ASPHGUT	ASPHGUT	ASPHGUT+
PT_AIRON	AIRON	AIRON	AIRON
PT_ALPOST	ALPOST	ALPOST	ALPOST
PT_APRON	APRON	APRON	APRON+
PT_ASPHPAD	ASPHPAD	ASPHPAD	ASPHPAD+
PT_ASPHW	ASPHWALK	ASPHWALK	ASPHWALK+

Point Layer	Point Style	Point Label Style	Description
PT_G_BEND	G_BEND	G_BEND	\$*
PT_G_BALL_VALVE	G_BALL_VALVE	G_BALL_VALVE	G_BALL_VLV
PT_G_BRANCH_SADDLE_CONNECTION	G_BRANCH_SADDLE	G_BRANCH_SADDLE	G_BRH_SADDLE
PT_BARRIER	BARRIER	BARRIER	BARRIER+
PT_BASELINE	BASELINE	BASELINE	BASELINE+
PT_BLDG	BLDG	BLDG	BLDG+
PT_BENCH	BENCHL	BENCHL	BENCH
PT_BENCH	BENCHR	BENCHR	BENCH
PT_BBANK	BBANK	BBANK	BBANK+
PT_BOLLARD	BOLLARDL	BOLLARDL	BOLLARD
PT_BOLLARD	BOLLARDR	BOLLARDR	BOLLARD
PT_BRICK	BRICKPAVERS	BRICKPAVERS	BRICKPAVERS+
PT_BIKERACK	BIKERACKL	BIKERACKL	BIKERACK
PT_BIKERACK	BIKERACKR	BIKERACKR	BIKERACK
PT_TREE	BUSHL	BUSHL	BUSH
PT_TREE	BUSHR	BUSHR	BUSH
PT_CW	BW	BW	BW+
PT_G_CI_BUTTERFLY_VALVE	G_CI_BUTTERFLY_VALVE	G_CI_BUTTERFLY_VALVE	G_CI_BFLY_VLV
PT_G_CTRAP	G_CTRAP	G_CTRAP	G_CTRAP+
PT_G_DESIGN_CTRAP	G_DESIGN_CTRAP	G_DESIGN_CTRAP	DS_G_CTRAP+
PT_CB	CB	CB	CB
PT_CB_DESIGN	CBDL	CBDL	DESIGNCB
PT_CB_DESIGN  PT_CB_DESIGN	CBDR	CBDR	DESIGNOB
PT_CB_DL3IGN	CBL	CBL	CB+
PT_CONCBOX	CONCBOX	CONCBOX	
PT_CB	CBR	CBR	CONCBOX CB+
PT_CB	CBSM	CBSM	CBSMALL
PT_CHAMBER	CHAMBER_FIG	CHAMBER_FIG	CHAMBER
PT_CHAMBER	CHAMBER	CHAMBER	CHAMBER
PT_CL	CL	CL	CL+ \$*
PT_CNTRMON	CNTRMON	CNTRMON	Ť
PT_CONCPAD	CONCPAD	CONCPAD	CONCPAD+
PT_COMPOST	COMPOST	COMPOST	COMPOST
PT_CONTROL	CNTRPT	CNTRPT	\$*
PT_CURB	CURB	CURB	CURB+
PT_CULVERT	CULVERT	CULVERT	CULVERT
PT_G_DRAINAGE_PIPE	G_DRAINAGE_PIPE	G_DRAINAGE_PIPE	G_DRAIN_PIPE
PT_G_DESIGN_DRAINAGE_PIPE	G_DESIGN_DRAINAGE_PIPE	G_DESIGN_DRAINAGE_PIPE	DS_G_DRAIN_PIPE
PT_DITCH	DITCH	DITCH	DITCH+
PT_DLSIPOST	DLSIP	DLSIP	DLSIP
PT_DWAY	DRIVEWAY	DRIVEWAY	DWAY+
PT_G_END_CAP	G_END_CAP	G_END_CAP	G_END_CAP
PT_EOP	EOP	EOP	EOP+
PT_ENTW	ENTW	ENTW	ENTW+
FG_POINT	<default></default>	<default></default>	\$*
PT_G_FLANGE	G_FLANGE	G_FLANGE	\$*
PT_G_FLANGE_NITRILE_GASKET	G_FLANGE_NITRILE_GASKET	G_FLANGE_NITRILE_GASKET	G_FLNG_NTRL_GSKT
PT_CAPPOST	CAPPOSTF	CAPPOSTF	CPOST
PT_FENCE	FENCE	FENCE	FENCE+
PT_HYD	HYDL	HYDL	HYD
PT_HYD	HYDR	HYDR	HYD
PT_FLAGPOLE	FLAGPOLEL	FLAGPOLEL	FLAGPOLE

Point Layer	Point Style	Point Label Style	Description
PT_FLAGPOLE	FLAGPOLER	FLAGPOLER	FLAGPOLE
PT_FOOTING	FOOTING	FOOTING	FOOTING+
PT_CW	FW	FW	FW+
PT_G_WELL	G_WELL	G_WELL	G_WELL
PT_G_WELL_DESIGN	G_DESIGN_WELL	G_DESIGN_WELL	DS_G_WELL
PT_G_GATE_VALVE	G_GATE_VALVE	G_GATE_VALVE	G_GATE_VLV
PT_G_PIPE	G_PIPE	G_PIPE	G_PIPE
PT_G_DESIGN_PIPE	G_DESIGN_PIPE	G_DESIGN_PIPE	DS_G_PIPE
PT_GARAGE	GARAGE	GARAGE	GARAGE+
PT_GAS_RECTIFIER	GAS_R_STA	GAS_R_STA	GAS_R_STA+
PT_GARBAGE	GARBAGE_BIN	GARBAGE_BIN	GARBAGE BIN
PT_GROUNDPNT	GP GP	GP GP	GP+
PT_GRAVEL	GRAVEL	GRAVEL	GRAVEL+
PT_GUTTER	GUTTER	GUTTER	GUTTER+
PT_GVRD_METER	GVRD_METER HEDGE	GVRD_METER	GVRD_METER+ HEDGE+
PT_HEDGE	IP	HEDGE	
PT_IRON_P		IP IPP	IRON_P
PT_IRON_P	IPP	IPP	IRON_P
PT_JBOX	JBOX	JBOX	JBOX
PT_JBOX	JBOXR	JBOXR	JBOX
PT_KIOSK	KIOSK	KIOSK	KIOSK
PT_KIOSK	KIOSKL	KIOSKL	KIOSK
PT_KIOSK	KIOSKR	KIOSKR	KIOSK
PT_G_LEACHATE_PIPE	G_LEACHATE_PIPE	G_LEACHATE_PIPE	G_LEACH_PIPE
PT_G_DESIGN_LEACHATE_PIPE	G_DESIGN_LEACHATE_PIPE	G_DESIGN_LEACHATE_PIPE	DS_G_LEACH_PIPE
PT_G_LABCOCK	G_LABCOCK	G_LABCOCK	G_LABCOCK
PT_LEAD_P	LP	LP	LEAD_P
PT_LEAD_P	LPP	LPP	LEAD_P
PT_MH_GVRD	GVRD_MH	GVRD_MH	GVRD_MH+
PT_MH_H	MHH	MHH	H_MH+
PT_MH_S	MHS	MHS	SMH+
PT_MH_T	MHT	MHT	T_MH+
PT_MH_W	MHW	MHW	W_MH+
PT_MON	MONUMENT	MONUMENT	\$*
PT_NSRIPOST	NSRIP	NSRIP	NSRIP
PT_NSSIPOST	NSSIP	NSSIP	NSSIP
PT_OFFSET	OS	OS	\$*+
PT_G_PITOT_TUBE	G_PITOT_TUBE	G_PITOT_TUBE	G_PITOT_TUBE
PT_POLE	PANCH	PANCH	PANCHOR
PT_PCON	PCON	PCON	PCON
PT_PCON	PCONP	PCONP	PCON
PT_CAPPOST	PCP	PCP	CPOST
PT_PI	PI	PI	PI+
PT_PK	PARKINGLOT	PARKINGLOT	PARKINGLOT+
PT_PL	PL	PL	PL+
PT_POLE	POLEL	POLEL	POLE
PT_POLE	POLER	POLER	POLE
PT_PROCK	PROCK	PROCK	PROCK
PT_PROCK	PROCKP	PROCKP	PROCK
PT_PLANTER	PLANTER	PLANTER	PLANTER
PT_G_REDUCER	G_REDUCER	G_REDUCER	G_REDUCER
PT_RETW	RETW_B	RETW_B	RETW_B+

Point Layer	Point Style	Point Label Style	Description
PT_RETW	RETW_T	RETW_T	RETW_T+
LF_S	<default></default>	<default></default>	0
PT_G_SAMPLE_PORT	G_SAMPLE_PORT	G_SAMPLE_PORT	G_SAMPLE_PORT
PT_G_SPACER	G_SPACER	G_SPACER	G_SPACER
PT_SCRW	SCREENWALK	SCREENWALK	SCRW+
PT_ENTW	STEPS	STEPS	STEPS
PT_G_TEE	G_TEE	G_TEE	G_TEE
PT_TRAVHUB	TRAVHUB	TRAVHUB	TRAVHUB
PT_TRAVHUB	TRAVHUBP	TRAVHUBP	TRAVHUB
PT_TBANK	TBANK	TBANK	TBANK+
PT_TRAIL	TRAIL	TRAIL	TRAIL+
PT_TREE	TREEL	TREEL	TREE
PT_TREE	TREER	TREER	TREE
PT_TSIGN	TSIGNL	TSIGNL	TSIGN
PT_TSIGN	TSIGNR	TSIGNR	TSIGN
PT_UNMRKPNT	UNMRKPNT	UNMRKPNT	UNMRKPNT
PT_VALVE_W	VALVE_W	VALVE_W	VALVE_W
PT_VENTSTK_GVRD	GVRD_VENTL	GVRD_VENTL	GVRD_VENT
PT_VENTSTK_GVRD	GVRD_VENTR	GVRD_VENTR	GVRD_VENT
PT_VENTSTK_W	W_VENTL	W_VENTL	W_VENT
PT_VENTSTK_W	W_VENTR	W_VENTR	W_VENT
PT_W_CHAMBER	W_CHAMBER	W_CHAMBER	W_CHAMBER
PT_WCURB	WCURB	WCURB	WCURB+
PT_WHLCHR	WHLCHR_R	WHLCHR_R	WHLCHR_R+
PT_WPOST	WPOST	WPOST	WPOST
PT_WPOST	WPOSTP	WPOSTP	WPOST
PT_WTMAIN	WTMAIN	WTMAIN	WTMAIN

# 16 Symbols

# 16.1 Survey Symbols

CITY OF VANCOUVER, ENGINEERING SERVICES SURVEY SYMBOLS			
DESC, KEY	SYMBOL	SYMBOL NAME	DESCRIPTION
PCON	•	PCONF	STANDARD CONCRETE POST (FOUND)
PCONP	8	PCONP	STANDARD CONCRETE POST (PLACED)
PROCK		PROCKF	STANDARD ROCK POST (FOUND)
PROCKP	<b>Ø</b>	PROCKP	STANDARD ROCK POST (PLACED)
LP		LEAD_P	LEAD PLUG (FOUND)
LPP	×	LEAD_PP	LEAD PLUG (PLACED)
FCP	<b>(2)</b>	CAPPOSTF	STANDARD CAPPED POST (FOUND)
PCP	8	CAPPOSTP	STANDARD CAPPED POST (PLACED)
IP	*	IRON_P	STANDARD IRON POST (FOUND)
IPP	×	IRON_PP	STANDARD IRON POST (PLACED)
wo	H	WPOSTF	STANDARD WOODEN POST (FOUND)
WOP	×	WPOSTP	STANDARD WOODEN POST (PLACED)
CM*	<b>(A)</b>	CNTRLMON	CONTROL MONUMENT
DLSIP		DLSIPOST	OLD PATTERN DOMINION IRON POST
NSSIP	<b>*</b>	NSSIPOST	NON-STANDARD SQUARE IRON POST
NSRIP	<b>@</b>	NSRIPOST	NON-STANDARD ROUND POST
Al	<u>&amp;</u>	AIRON	ANGLE IRON
AP	*	ALPOST	ALUMINUM POST
TH	*	TRAVHUBF	TRAVERSE HUB (FOUND)
THP	Δ.	TRAVHUBP	TRAVERSE HUB (PLACED)
UMP	×	UNMRKPNT	UNMARKED MEASURED POINT
	YEAR OF A	MON_CAP	MONUMENT CAP

### 16.2 Streets Symbols

CITY OF		ENGINEERING SERVICES SYMBOLS
SYMBOL	SYMBOL NAME	DESCRIPTION
	BENCHL	BENCH
×	BENCHR	BENCH
*	BOLLARDL	BOLLARD LEFT
ŏ	BOLLARDR	BOLLARD RIGHT
Į.	BIKERAKL	BIKE RACK
<u>‡</u> <u>*</u>	BIKERAKR	BIKE RACK
9	BUSHL	BUSH LEFT
9	BUSHR	BUSH RIGHT
	CB	CATCH BASIN
×	CBDL	CATCH BASIN (DESIGN) LEFT
×	CBDR	CATCH BASIN (DESIGN) RIGHT
m	CBL	CATCH BASIN LEFT
ŢŢ.	CBR	CATCH BASIN RIGHT
A	STA	CONTROL POINT
*	HYDL	HYDRANT LEFT
*	HYDR	HYDRANT RIGHT
•	TPOLEL	FLAGPOLE LEFT
ŏ	TPOLER	FLAGPOLE RIGHT
)ati	E_JBOX	JUNCTION BOX
(X)	E_JBOXR	JUNCTION BOX
⊗	мн	GVRD MH
8	мн	HYDRO MH
8	мн	SEWER MH
8	мн	TEL MH
8	мн	WATER MH
A	мом	SURVEY MONUMENT (STS)
×	OLSL	ORNAMENTAL LAMP STANDARD LEFT
×	OLSR	ORNAMENTAL LAMP STANDARD RIGHT
*-	PANCHOR	UTILITY POLE ANCHOR

CITY OF		ENGINEERING SERVICES
	STREETS	SYMBOLS
SYMBOL	SYMBOL NAME	DESCRIPTION
90	PMETERDL	PMETER DBL_L
<b>%</b> 6	PMETERDR	PMETER DBL_R
<b>%</b>	PMETERSL	PMETER SNGL_L
*	PMETERSR	PMETER SNGL_R
Ø	POLEL	UTILITY POLE LEFT
ŏ	POLER	UTILITY POLE RIGHT
۶	PEDPOLEL	PEDESTRIAN POLE
ŏ	PEDPOLER	PEDESTRIAN POLE
<del>-</del>	TSIGNL	RRPOLEL
¥	TSIGNR	RRPOLER
•	TPOLEL	TROLLEY POLE LEFT
<b>ě</b>	TPOLER	TROLLEY POLE RIGHT
	TREEL	TREE LEFT
	TREER	TREE RIGHT
<b>*</b>	TSIGNL	TRAFFIC SIGN LEFT
¥	TSIGNR	TRAFFIC SIGN RIGHT
	VALVE	VALVEG
	VALVE	VALVEW
<del>Q</del>	VENTGL	GVRD_VENT
ŏ	VENTGR	GVRD_VENT
*	VENTWL	WATER_VENT
×	VENTWR	WATER_VENT
M	WCHMBR	WATER_CH AMBER

# 16.3 Water Symbols

CITY OF VANCOUVER, ENGINEERING SERVICES WATER SYMBOLS		
SYMBOL	SYMBOL NAME	DESCRIPTION
×— AV.	w_airviv	AR VALVE
C.V.	w_backflow_ prevention_	BACKFLOW PREVENTION
× 8.0.	W_blowoff	BLOW OFF VALVE
<b>₽</b>	v_bloweff_flush	BLOW OFF FLUSH
H	w_changeofmaterial	CHANGE OF MATERIAL
°.∨.	w_ahamber daublecheck	DOUBLE CHECK VALVE
×	w_cp_anode	CATHODIC PROTECTION ANCOE
×	w_qp_Inseq	CATHODIC PROTECTION INSULATED COUPLING
<b>®</b>	w_cp_testpoint	CATHODIC PROTECTION TESTPOINT
×	w_ettwy_hydrant feeder	HYDRANT FEEDER VALVE
8	w_ctlvlv_large_closed	LARGE CLOSED VALVE
Þ	w_ctiviv_large_open	LARGE OPEN VALVE
ł	w_ctMv_service	SERVICE VALVE
◆	w_ctlvlv eervice_closed	SERVICE CLOSED VALVE
$\bowtie$	w_stlvtv_amdl	SMALL VALVE
<b>⊗</b>	w_ctiviv_amail_closed	SMALL CLOSED VALVE
$\bigcirc$	¥_≎rœecver	CROSSOVER
× W -	w_ftg_bend	BEND FITTING
⊹	w_ftg_cross	CROSSING FITTING
Ę	w_ftg_ckimp	CLAMP FITTING
[ <del>×</del>	w_ftg_pipeend	PLUS FITTING
45€[]	w_ftg_reducer	REDUCER FITTING
፟	w_ftg_tæ	EXISTING TEE FITTING
×	w_hydrent	COMPRESSION HYDRANT
	w_hyd_ffreuseonly	FIRE USE CAILY HYDRANT
₩	w_mater	METER BOX
PIG	w_pi <b>g</b> out	PIGCUT
	w_prestation	PRESSURE VALVE
PKS	w_pumpetation	PUMP STATION
(346)	w_samplingstation	SAMPLING STATION
***	w_ecada_eeneor	SCADA SENSOR

### 16.4 Sewer Symbols

CITY OF VANCOUVER, ENGINEERING SERVICES SEWER SYMBOLS		
SYMBOL	SYMBOL NAME	
×	S_Arrow	DIRECTION APPROW
×	S_ArrowLt_Cambine	ARROW LEFT COMBINE
×	S_ArrowLt_FN	ARROW LEFT FORCED MAIN
*	S_ArrowLt_Sanitary	ARROW LEFT SANITARY
×	S_ArrowU_Starm	ARROW LEFT STORM
×	5_ArrowRt_Combine	ARROW RIGHT COMBINE
×	5_ArrovR1_FM	ARROW RIGHT FORCED MAIN
×	S_ArrowRt_Sanitary	ARROW RIGHT SANITARY
×	S_ArrowRt_Storm	ARROW RIGHT STORM
> <del></del>	S_ArrovSt_Combine	ARROW STRAIGHT COMBINE
×-	5_ArrowSt_C5I	ARROW STRAIGHT COMBINE SIPHON
×-	S_Arrav&t_FM	ARROW STRAIGHT FORCED MAIN
× <del></del>	S_ArrowSt_Sonitory	ARROW STRAIGHT SANTARY
×-=	S_ArrewSt_SANSI	ARROW STRAIGHT SANITARY SIPHON
×-	S_ArrowSt_Starm	ARROW STRAIGHT STORM
* c/G	S_ChngGrBot_Combine	CHANGE OF GRADE BOTTOM CONBINE
c/G	S_ChingGrBot_FM	CHANGE OF GRADE BOTTOM FORCED MAIN
c/G	S_ChingGrBat_NoType	CHANGE OF GRADE BOTTOM NO TYPE SPECIFIED
c/g :	S_ChrigGrBot_Sanitary	CHANGE OF GRADE BOTTOM SANITARY
c/c	S_ChingGrBot_Storm	CHANGE OF GRADE BOTTOM STORM
^	S_ChngCrTop_Combine	CHANGE OF CRADE TOP COMBINE
c/G *	S_ChngGrTap_CSI	CHANGE OF GRADE TOP COMBINE SIPHON
C/G *	S_ChngGrTop_FM	CHANGE OF GRADE TOP FORCED MAIN
C/G *	S_ChngGrTop_NoType	CHANGE OF GRADE TOP NO TYPE SPECIFIED
	8_ChngGrTop_Sanitary	CHANGE OF GRADE TOP SANITARY
c/g *	5_ChngGrTop_Storm	CHANGE OF GRADE TOP STORM
/×/	S_ChingNat_Combine	CHANGE OF MATERIAL CONBINE
/ <del>×</del> /	S_ChngMat_FM	CHANGE OF MATERIAL FORCED MAIN
<u>/×/</u>	S_ChingMat_NoType	CHANGE OF MATERIAL NO TYPE SECIFIED
/×/	S_ChingMat_Sanitary	CHANGE OF METERIAL SANITARY
/ <u>k</u> /	S_ChngMat_Storm	CHANGE OF MATERIAL STORM

CITY OF VANCOUVER, ENGINEERING SERVICES SEWER SYMBOLS		
SYMBOL	SYMBOL NAME	DESCRIPTION
$\bigcirc$	5_Crosecver_Combine	GROSSOVER COMBINE
(X)	S_Chassover_FM	GROSSOVER FORCED MAIN
(X)	S_Crossover_NoType	CROSSOVER NO TYPE SPECIFIED
$\sim$	S_Crassover_Sanitary	CROSSOVER SANITARY
(x)	S_Crossover_Storm	CROSSOVER STORM
*	S_Fit_Band_Combine	BEND FITTING COMBINE
*	S_FIt_Bend_FM	BEND FITTING FORCED MAIN
*	S_FIt_Bend_Sonitory	BEND FITTING SANITARY
*	S_Fit_Bend_Storm	BEND FITTING STORM
[86]	S_FIt_CB_Combine	CATCH BASIN FITTING COMBINE
(BE)	S_Fit_CB_FM	CATCH BASIN FITTING FORCED MAIN
[22]	S_FIt_CB_Sonitory	CATCH BASIN FITTING SANITARY
[80]	S_FIt_CB_Starm	CATCH BASIN FITTING STORM
C/0	S_FIt_Clean_Combina	CLEANOUT FITTING COMBINE
င႔္စ္က	S_FR_Clean_CSI	CLEANOUT FITTING COMBINE SIPHON
್ಡ0	S_FIt_Clean_FM	CLEANOUT FITTING FORCED WAIN
్డం	S_FTt_Clean_Sanitary	CLEANOUT FITTING SANITARY
్మం	5_Fit_Clean_5torm	CLEANOUT FITTING STORM
E×	S_Fit_Plug_Combine	PLUG FITTING COMBINE
E×	\$_F1t_Plug_FM	PLUB FITTING FORCED MAIN
E×	S_Fit_Plug_Sanftary	PUIG FITTING SANITARY
E×	S_FIt_Plug_Starm	PLUG FITTING STORN
<b>K</b>	S_Fit_Reduce_Combine	REDUCER FITTING COMBINE
<b>&gt;</b>	S_FIt_Raduca_FM	REDUCER FITTING FORCED MAIN
<b>&gt;</b>	_Fit_Reduce_Sanitary	REDUCER FITTING SANITARY
<b>▶</b> ×	S_Fit_Reduce_Storm	REDUCER FITTING STORM
*	S_Fit_Tee_Combine	TEE FITTING COMBINE
<u></u>	S_FI1_Tea_Sanftary	TEE FITTING SANITARY
<b>—</b>	S_Fit_Tee_Storm	TEE FITTING STORM
*	5_Fit_Valve1_Combine	VALVE FITTING ≱ 1 COMBINE
R	S_Fit_Valve1_FM	VALVE FITTING # 1 FORCED MAIN

CITY OF VANCOUVER, ENGINEERING SERVICES SEWER SYMBOLS		
SYMBOL	SYMBOL NAME	DESCRIPTION
*	S_FIt_Valve1_Sanitary	VALVE FITTING # 1 SANITARY
*	S_Fit_Valve1_Storm	VALVE FITTING # 1 STORM
*	S_Fit_Yalve2_Combine	VALVE FITTING # 2 COMBINE
<u></u>	S_Fit_Valve2_FM	VALVE FITTING # 2 FORCED MAIN
TG Q	S_FIt_Valve3_FM	VALVE FITTING # 3 FORCED MAIN
$\overline{}$	S_Fit_Valve4_Combine	VALVE FITTING # 4 COMBINE
$\overline{}$	S_Fit_Valve4_FM	VALVE FITTING # 4 FORCED MAIN
×	5_FlowBet	FLOW DIRECTION ARROW LEG AT BOTTOM
ليد ا	5_FlewLt	FLOW DIRECTION LEFT ARROW
×->-	S_FlowRt	FLOW DIRECTION RIGHT ARROW
-×-	S_FlovTop	FLOW DIRECTION ARROW LEG AT TOP
<b>2</b>	S_Manhole_Combine	NANHOLE COMBINE
<b>33</b>	S_Manhole_FW	NANHOLE FORCED MAIN
<b>33</b>	S_Manhole_NoType	NANHOLE Na Type Specified
<b>23</b>	S_Manhale_Santtary	NANHOLE SANITARY
<b>28</b>	S_Manhale_Storm	NANHOLE STORM
<b>8</b>	S_MH_Clean_Combine	NANHOLE CLEANOUT COMBINE
⊠	5_MH_Clean_NoType	NANHOLE CLEANOUT N∜ Type Specified
×	S_MH_Clean_Sanitory	NANHOLE CLEANOUT SANITARY
×	S_MH_Clean_Storm	MANHOLE CLEANOUT STORM
s.	MH_Lamphole_Combine	NANHOLE LAMPHOLE COMBINE
M	S_MH_Lamphole_FW	NANHOLE LAMPHOLE FORCED NAIN
. III s	_MH_Lamphale_NoType	NANHOLE LAMPHOLE No Type Specified
s.	MH_Lamphale_Santtory	MANHOLE LAMPHOLE SANITARY
<b>B</b>	LMH_Lamphole_Storm	NANHOLE LAMPHOLE STORM
Ħ	S_MH_Sump_Combine	NANHOLE SUMP COMBINE
M	5_MH_Sump_Senitary	NANHOLE SUMP SANITARY
<b>190</b>	S_WH_Sump_Storm	MANHOLE SUMP STORM
>	S_CutFal_Combine	OUTFALL COMBINE
> >	S_DutFall_NoType	OUTFALL No Type Specified
$\rightarrow$	S_OutFall_Starm	QUIFALL STORM

# 16.5 Street Lighting Symbols

CITY OF VANCOUVER, ENGINEERING SERVICES		
CVALDO		IGHTING SYMBOLS
SYMBOL	SYMBOL NAME	DESCRIPTION
×	sl_cocess	ACCESS AREA
$\times$	Bl_adapter	CONDUIT ADAPTER
8	Bl_bct_mh	B.C. TEL MANHOLE
	el_bue	LIGHT BUS SHELTER
×	sl_con_pb	CONCRETE PULL BOX
*	al_con_ap	CONCRETE SPLICE BOX
×	sl_ext_alv	EXTRA SLEEVE
	왕_fl_fl	FIRE FLASHER
FL	sl_fl_fl_lnd	FIRE FLASHER INDICATOR
×□FA	ವ_fire_alm	FIRE ALARM CALL BOX
F	sl_fl_cont	FLASHER CONTROLLER
*	sl_flash	FLASHER
×	al_offaet	CONDUIT OFFSETS
M	sl_pb_meter	PARKS BOARD METER
×	al_pole	STREET LIGHTING POLE
	sl_pullbox	PULL BOX
<b>₩</b>	sl_quartz	QUARTZ LIGHTING
*	el_ser_pan	STREET LIGHTING SERVICE PANEL
×	el_aign	ILLUMINATED SIGN
8	sl_sprinkler	SPRINKLER CONTROLLER
$\times$	al_tr_cant	TRAFFIG SIGNAL CONTROLLER
$\otimes$	sl_tr_p1pe	TRAFFIC SIGNAL PIPE STANDARD
×	sl_trolley	TROLLEY POLE

# 16.6 Street Furniture Symbols

CITY OF VANCOUVER, ENGINEERING SERVICES STREET FURNITURE SYMBOLS		
SYMBOL	SYMBOL NAME	DESCRIPTION
8	SF_BENCH	STREET FURNITURE BENCH
B	SF_BIKERACK	STREET FURNITURE BIKE RACK
×	SF_ELECTRICBOX	STREET FURNITURE ELECTRICAL BOX
×	SF_DRINKINGFOUNTAIN	STREET FURNITURE DRINKING FOUNTAIN
K	SF_LITTERBIN	STREET FURNITURE LITTER BIN
×	SF_NEWSBOX	STREET FURNITURE NEWS PAPER BOX
×	SF_BUS_SHELTER	STREET FURNITURE SHELTER
<b>₩</b>	SF_SIDEWALK_CAFÉ	STREET FURNITURE SIDE WALK CAFÉ
<i>→</i>	SF_TELEPHONE_BOOTH	STREET FURNITURE TELEPHONE BOOTH
×	SF_TRANSLINK_BOOTH	STREET FURNITURE TRANSLINK BOOTH

# 16.7 Utility Symbols

CITY OF VANCOUVER, ENGINEERING SERVICES HYDRO / TELCO SYMBOLS		
SYMBOL	SYMBOL NAME	DESCRIPTION
(H)	u_hydro_pole	B.C. Hydro Pole
×	u_hydro_box	B.C. Hydro Splice Box
×	u_hydro_stub	B.C. Hydro Stub
•	u_hydro_manhole	B.C. Hydro Manhole
×	u_hydro_substation	B.C. Hydro Substation
<b>X</b>	u_telco_box	Telco Box
(₹):	u_telco_can	Telco Can
0	u_telco_manhole	Telco Manhole
*	u_telco_pole	Telso Pole
X	u_telco_sacpad	Telco Sacpad
$\boxtimes$	u_telco_stub	Telco Stub

# 16.8 Landfill Symbols

CITY OF VANCOUVER, ENGINEERING SERVICES  LANDFILL SYMBOLS		
SYMBOL	SYMBOL NAME	DESCRIPTION
⊠(	g_ball_valve	Gas Ball Valve
8	g_bend	Bend
(A)	g_branch_saddle	Gas Branch Saddle
	g_butterfly_valve	Gas Butterfly Valve
×	g_ctrap	Gas Condensate Trap
×	g_ctrap_design	Gas Condensate Trap (Design)
*	g_end_cap	Gas End Cap
H	g_flange	Flange
≖NG	g_flange_nitrile _gasket	Gas Nitrile Gasket Flange
$\bowtie$	g_gate_valve	Gas Gate Valve
<b>&gt;</b> ≪	g_labcock	Gas Labcock
***	g_pitot_tube	Gas Pitot Tube
	g_reducer	Gas Reducer
(SP)	g_sample_port	Gas Sample Port
8	g_spacer	Gas Spacer
<del>-</del>	g_tee	Gas Tee
$\otimes$	g_well	Gas Well
•	g_well_design	Gas Well (Design)