

Section I – Data Acceptance Standards

File Geodatabase Acceptance Standards: A file geodatabase is a collection of various file formats in a single location. The file geodatabase is the desired filing structure for municipal GIS data shared with the Township of King during or upon completion of Township projects. File geodatabases maintain schema aliases and enables ideal data interoperability. If the Township shares geospatial data to complete a project, file geodatabases should be returned containing updated versions of the geospatial data, while maintaining the same schema (or data structure). File geodatabases can store:

- Feature datasets
- Feature classes
- Tables
- Relationship classes
- Raster datasets
- Mosaic datasets
- Toolboxes

Feature datasets organize geospatial data within the preferred filing structure of the file geodatabase. Feature classes consist of points, lines, polygons, among other features. For more information on file geodatabases, read the following [Esri documentation](#).

All GIS data accepted by the Township of King should be provided in a file geodatabase, opposed to the simpler shapefile format. For organizations using ArcGIS Pro, Project Packages or Map Packages will suffice. Some organizations may operate using basic GIS software licenses may be unable to provide the level of detail requested.

Shapefile Acceptance Standards: The shapefile (.*shp*) is a geospatial vector data format accepted almost universally across various GIS platforms. Shapefiles store nontopological geometry and restricted attribute schema. Shapefiles can store the geometric data types of points, lines, and polygons. A shapefile consists of three mandatory files .*shp* containing the feature geometry, .*shx* shape index/positional index, and .*dbf* attribute format information such as column attributes. However, a shapefile is likely to consist of a variety of other supporting files including but not limited to: .*shp.xml* relating to geospatial metadata and .*prj* which defines the projection for the shapefile. Shapefiles can be exported to CAD files, and vice versa:

 Streetlight.cpg	11/06/2019 9:35 AM	CPG File	1 KB
 Streetlight.dbf	11/06/2019 9:35 AM	DBF File	79 KB
 Streetlight.prj	11/06/2019 9:35 AM	PRJ File	1 KB
 Streetlight.sbn	11/06/2019 9:35 AM	SBN File	2 KB
 Streetlight.sbx	11/06/2019 9:35 AM	SBX File	1 KB
 Streetlight.shp	11/06/2019 9:35 AM	AutoCAD Shape S...	7 KB
 Streetlight.shp.KING00384.2824.2752.sr.lo...	11/06/2019 9:35 AM	LOCK File	0 KB
 Streetlight.shp.xml	11/06/2019 9:35 AM	XML Document	11 KB
 Streetlight.shx	11/06/2019 9:35 AM	AutoCAD Compil...	2 KB

(Image 1: shapefile contents post CAD conversion example)

Section II – Coordinate System Standards

Coordinate System Standards: All shapefiles submitted to the Township of King must adhere to the coordinate system standards stated below:

Geographic Coordinate System: GCS

North American 1983

Angular Unit: Degree

(0.0174532925199433)

Prime Meridian: Greenwich (0.0)

Datum: D North American 1983

Spheroid: GRS 1980

Semimajor Axis: 6378137.0

Semiminor Axis: 6356752.314140356

Inverse Flattening: 298.257222101

Projection: Universal Transverse Mercator
Zone 17N

False Easting: 500000.0

False Northing: 0.0

Central Meridian: -81.0

Scale Factor: 0.9996

Latitude Of Origin: 0.0

Linear Unit: Meter (1.0)

In most GIS and CAD software packages, this specific coordinate system-projection combination will be recognized simply as, NAD_1983_UTM_Zone_17N

Section III – Schema Standards

Schema Standards: While the data files must adhere to the formatting and coordinate system standards stated above (*Section I and Section II*), the data stored in the attribution tables (also referred to as tabular data) must mirror the schema standards presented in the tables below. These standards include geometry type, column naming conventions/field names, units, data type, length, precision, and scale. These tables are organized by subject matter, which include: roads and infrastructure, water, utilities, and parks and landscaping.

Transportation Network and Infrastructure:

Table 1

Signs	Signs (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Type	String		255		
Category	String		255		
Barcode	String		50		
Support_Number	Short Integer			5	
Install_Date	Date	mm/dd/yyyy		10	
Pole_Type	String		50		
Road	String		100		
Description	String		250		
Location	String		100		

Table 2

Road Surfaces	Road_Surfaces (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Surface_Type	String		50		
Width	String		50		
Install_Date	Double	yyyy		38	8
Road	String		100		
Description	String		250		
Location	String		100		

Table 3

Sidewalks	Sidewalks (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Type	String		50		
Install_Date	Double	yyyy		38	8
Width	Double	m		23	5
SurfaceType	String		50		
Road	String		100		
Description	String		250		
Location	String		100		

Table 4

Curbs	Curbs (polyline)				
Field	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Type	String		50		
Condition	Short Integer			5	
Length	Double	m		20	2
Direction	String	Cardinal Bearings	2		
Road	String		50		
Install_Year	Double	yyyy		16	0

Table 5

Retaining Walls	Retaining_Walls (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Type	String		50		
Material	String		50		
Length	Double	m		20	2
Install_Date	Double	yyyy	10	16	

Table 6

Safety Systems	Safety_Systems (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
System_Type	String		50		
Install_Date	String	mm/dd/yyyy	10		
Road	String	100			
Description	String	250			
Location	String	100			

Table 7

Structural Culverts	Culvert_Structures (polygon)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Culvert_Type	String		50		
Depth	Double	m		18	2
Material	String		50		
Length	Double	m		18	2
Diameter	Double	m		18	2
Upstream_Elevation	Double	m		18	2
Downstream_Elevation	Double	m		18	2
Span_Length	Double	m		18	2
Deck_Width	Double	m		18	2
Deck_Area	Double	m ²		18	2
Install_Date	Double	yyyy		16	0
Road	String		100		
Description	String		250		
Location	String		100		

Table 8

Bridge Deck	Bridge_Deck (polygon)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Surface_Type	String		50		
Length	Double	m		23	5
Width	Double	m		23	5
Deck_Area	Double	m ²		23	5
Road	String		50		
Description	String		250		
Location	String		100		

Water, Wastewater and Stormwater Network and Infrastructure:

Table 9

Hydrants	Hydrants (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Model	String		50		
Pressure	String		50		
Install_Date	String		50		
Self_Draining	String		50		
Make	String		50		
Road	String		100		
Description	String		250		
Location	String		100		

Table 10

Water Meter Chambers	Water_Meter_Chamber (point)				
Field	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Diameter	String	mm	50		
Type	String		50		
Road	String		100		
Description	String		250		
Location	String		100		

Table 11

Water Sampling Stations	Water_Sampling_Stations (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Sampling_Type	String		30		
Install_Date	Date	mm/dd/yyyy			
Road	String		100		
Description	String		250		
Location	String		100		

Table 12

Water Valves	Water_Valves (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Valve_Type	String		30		
Diameter	Long Integer	mm		10	
Make	String		4		
Modulator_Valve_Type	String		60		
Road	String		100		
Description	String		250		
Location	String		100		

Table 13

Curb Stops	Curb_Stops (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Valve_Type	String		30		
Diameter	Long Integer	mm		10	
Valve_Function	String		60		
Road	String		100		
Description	String		250		
Location	String		100		

Table 14

Water Services	Water_Services (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Material	String		4		
Main_Diameter	Long Integer	mm		10	
Service_Type	String		125		
Road	String		100		
Description	String		250		
Location	String		100		

Table 15

Watermain	Watermain (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Material	String		4		
Main_Diameter	Long Integer	mm		10	
Road	String		100		
Description	String		250		
Location	String		100		

Table 16

Wastewater Pumping Stations	Wastewater_Pumping_Stations (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Number_of_Pumps	Long Integer			10	0
Rated_Capacity	Double			38	8
Well_Type	String		10		
Bottom_Elevation	Double	mm		38	8
Overflow_Elevation	Double	mm		38	8
CHEMPT	String		3		
Road	String		100		
Description	String		250		
Location	String		100		

Table 17

Wastewater Connection Points	Wastewater_Connection_Points (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Connection_Type	String		40		
Install_Date	Date	mm/dd/yyyy			
Road	String		100		
Description	String		250		
Location	String		100		

Table 18

Wastewater Fitting	Wastewater_Fitting (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Type	String		60		
Road	String		100		
Description	String		250		
Location	String		100		

Table 19

Wastewater Valves	Wastewater_Valves (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Diameter	Long Integer	mm		10	
Road	String		100		
Description	String		250		
Location	String		100		

Table 20

Wastewater Manholes	Wastewater_Manholes (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Rim_Elevation	Double	mm		38	8
Diameter	Double	m		38	8
Road	String			100	
Description	String			250	
Location	String			100	

Table 21

Wastewater Services	Wastewater_Services (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Material	String		4		
Diameter	Long Integer	mm		10	0
Service_Type	String		125		
Road	String		100		
Description	String		250		
Location	String		100		

Table 22

Wastewater Main	Wastewater_Main (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Pipe_Type	String		30		
Pipe_Material	String		4		
Main_Diameter	Long Integer	mm		10	
Upstream_Invert	Double	m		38	8
Downstream_Invert	Double	m		38	8
Slope	Double			38	8
Install_Date	Date	mm/dd/yyyy			
Road	String		100		
Description	String		250		
Location	String		100		

Table 23

Stormwater Connection Points	Stormwater_Connection_Points (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Connection_Type	String		50		
Install_Date	Date	mm/dd/yy yy			
Road	String		100		
Description	String		250		
Location	String		100		

Table 24

Discharge Points	Discharge_Points (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Diameter	Long Integer	mm		10	
Type	String		50		
Headwall	String		30		
Description	String		250		
Location	String		100		

Table 25

Stormwater Fitting	Stormwater_Fitting (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yy yy			
Type	String		60		
Road	String		100		
Description	String		250		
Location	String		100		

Table 26

Catch Basins	Catch_Basins (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
CB_Type	String		50		
Elevation	Double			38	8
Cover_Type	String		8		
Diameter	Long Integer	mm		10	
Road	String		100		
Description	String		250		
Location	String		100		

Table 27

Catch Basin Manholes	Catch_Basins_Manholes (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Diameter	String	mm	50		
Cover_Type	String		50		
CBMH_Type	String		50		
Road	String		100		
Description	String		250		
Location	String		100		

Table 28

Stormwater Manholes	Stormwater_Manholes (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yy yy			
Diameter	Double	mm		38	8
Road	String		100		
Description	String		250		
Location	String		100		

Table 29

Culverts	Culverts (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Material	String		20		
Diameter	Long Integer	mm		10	
Type	String		125		
Road	String		100		
Description	String		250		
Location	String		100		

Table 30

Catch Basin Leads	Catch_Basin_Leads (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Pipe_Type	String		30		
Pressure_Type	String		12		
Material	String		64		
Main_Diameter	Long Integer	mm		10	
Road	String		100		
Description	String		250		
Location	String		100		

Table 31

Stormwater Services	Stormwater_Services (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Material	String		4		
Main_Diameter	Long Integer	mm		10	
Service_Type	String		125		
Road	String		100		
Description	String		250		
Location	String		100		

Table 32

Stormwater Main	Stormwater_Main (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Material	String		4		
Main_Diameter	Long Integer	mm		10	
Upstream_Invert	Double	m		38	8
Downstream_Invert	Double	m		38	8
Slope	Double	%		38	8
Pipe_Type	String		50		
Pressure_Type	String		12		
Type	String		64		
Consumption_Percent	String	%	50		
Road	String		100		
Description	String		250		
Location	String		100		

Table 33

Stormwater Ponds	Stormwater_Ponds (polygon)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Install_Date	Date	mm/dd/yyyy			
Road	String		100		
Description	String		250		
Location	String		100		

Table 34

Stormwater Ponds	Stormwater_Catchment_Areas (polygon)				
Field Name	Data Type	Unit	Length	Precision	Scale
Outlet	String		50		
Area_ha	Double			38	8
Tributary	String		50		
Watershed	String		50		
Level	String		10		
City	String		50		

Table 35

Easements	Easements (polygon)				
Field	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Purpose	String		50		
Road	String		100		
Description	String		250		
Location	String		100		

Utilities:

Table 36

Pedestals	Pedestals (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		

Table 37

Transformers	Transformers (Point)				
Field	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		

Table 38

Streetlights	Streetlights (point)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Height	Double	m		38	8
Pole_Type	String		50		
Pole_Colour	String		50		
Wattage	Double	W		38	8
Luminaires	String		50		
Head_Type	String		50		
Pole_Number	Double			38	8
Install_Date	Date	mm/dd/yyyy	10		
Road	String		100		
Description	String		250		
Location	String		100		
Hydro_Pole_Attachment	String		10		

Table 39

Light Wiring	Light_Wiring (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Wire_Type	String		50		
Wire_Colour	String		50		
Duct_Type	String		50		
Duct_Size	Double	mm		18	2
Elevation	Double	mm		18	2
Install_Date	String	mm/dd/yyyy	10		

Table 40

Conduit	Conduit (polyline)				
Field Name	Data Type	Unit	Length	Precision	Scale
Size	Double	mm		18	2
Material	String		50		
Asset_ID	String		50		
Install_Date	Date	mm/dd/yyyy			

Parks and Landscaping:

Table 41

Park Assets	Park_Assets (Point)				
Field	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Type	String		50		
Install_Date	Double	yyyy		38	8
Road	String		100		
Description	String		250		
Location	String		100		

Table 42

Trails	Trails (polyline)				
Field	Data Type	Unit	Length	Precision	Scale
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Surface_Type	String		20		
Road	String		100		
Description	String		250		
Location	String		100		

Table 43

Facilities	Facilities_Footprints (polygon)				
<i>Field Name</i>	<i>Data Type</i>	<i>Unit</i>	<i>Length</i>	<i>Precision</i>	<i>Scale</i>
Asset_ID	String		50		
Citywide_ID	Long Integer			6	
Year_Built	String		50		
Road	String		100		
Description	String		250		
Location	String		100		

Section IV – Geometry Standards

The way geospatial features are provided to the Township is critical for data integration across various Township-wide business systems and processes. Some data records are meant to be segmented or split to match ideal representations for the purpose of finer asset management. The following sub-sections offer guidance as to how the Township expects new data records to be provided for certain layers. Polyline type data records should be snapped to one another for the purposes of potential modelling, unless there is meant to be a break in service. Furthermore, new data records being provided to the Township should be assigned unique asset identifiers based on the Asset ID Nomenclature Standards captured in Section V.

Water, Wastewater and Stormwater Infrastructure:

Watermain

The watermain layer is to be segmented based on pipe:

- Age
- Diameter
- Material
- Tee-to-tee locations

Wastewater Main

The wastewater main layer is to be segmented based on pipe:

- Age
- Diameter
- Material
- Manhole locations

Stormwater Main

The stormwater main layer is to be segmented based on pipe:

- Age
- Diameter
- Material
- Manhole locations

Section V – Asset ID Nomenclature Standards

Asset IDs:

All the tables listed above feature *Asset_ID* as a universal attribute field. *Asset_ID* acts as the primary key for all datasets pertaining to Township assets. Asset identifiers contain a prefix and a unique sequence. A prefix is assigned based on the location (e.g., village), the system it belongs to (e.g., water, roads), and the type of asset (e.g., hydrant, bench etc.). The prefix is followed by the sequence, which includes an underscore, followed by four unique digits. Developers/contractors will be provided a range of these four digits for each asset they are responsible for installing prior to drafting preliminary drawings. The specific nomenclature of these asset IDs are as follows:

Prefix

Digit	Description	Definition	
		Short	Long
1 st	Location of the Asset	A B C K L N O P R S W Y	Ansnorveldt Kettleby Cold Creek King City Lloydton Nobleton All Other Pottageville York Region Schomberg Snowball Laskay
2 nd	System the Asset is part of	B F G P R S T W U	Building Fire General Parks Roads Sanitary (Wastewater) Storm Water Utility
3 rd and 4 th	Type of Asset	AR AU BA BB BC BD BH BL BN BP BR BS BV CB CD CE CK CL CM CO CP CR	Air Release Valve Above Utilities Ball Diamond Bocce Ball Basketball Court Bridge Deck Ball Hockey Pad Bleacher Bench Bike Park Bicycle Rack Bridge Structure Beach Volleyball Court Catch Basin Conduit Creek/Stream Crosswalk Catch Basin Leads Catch Basin Manhole Culvert (structural culverts) Connection Point Curb

		CS	Curb Stop
		CT	Court
		CV	Culvert (small culverts)
		CW	Clean water Collector
		CX	Community Mailbox
		CY	Cemetery
		DB	Double Catch Basin
		DC	Drainage Channel
		DD	Decorative Bollard
		DE	Decorative Poles
		DF	Drinking Fountain
		DH	Dry Hydrant
		DI	Ditch Inlet
		DP	Off-Leash Dog Park Area
		DS	Discharge Point
		EF	Entrance Feature
		EM	Easement
		ES	Electronic Sign
		ET	End Treatment
		EV	Electric Vehicle Charging Stations
		EX	Exercise Equipment
		EZ	Entrance Sign (Parks)
		FB	Foot Bridge
		FD	Foundation Drain Collector
		FE	Fitness Equipment
		FF	Facility Footprint
		FL	Fiber Line
		FN	Fence
		FT	Fitting
		FX	Flexible Bollards
		GB	Geodetic Benchmark
		GL	Gas Line
		GP	Wooden Guidepost
		GR	Garden
		GS	Gateway Sign
		GT	Gate
		HC	Hydro Connection Service
		HF	Hardscape Feature
		HH	Hand Holes
		HR	Hedgerow
		HS	Hydrant Service
		HT	Holding Tank
		HW	Headwall
		HY	Hydrant
		ID	Interpretive Display
		IG	Irrigation
		IT	Infiltration Trench

		LD	Low Impact Development Ditch
		LF	Land Fill
		LW	Light Wiring
		LX	Light Fixture
		MB	Metal Flex Beam
		MC	Meter Chamber
		MF	Major Closed Facility
		MH	Manhole
		ML	Municipal Lands (Open Spaces, Buffer Blocks)
		MP	Multi-Purpose Court
		MS	Management System (Cistern)
		ND	Node
		OG	Oil-Grit Separator
		OF	Open Facility (Kiosk, Gazebo)
		OS	Open Space and Parks
		OW	Overflow
		PB	Pickle Ball Court
		PC	Picnic Table
		PD	Pedestal
		PG	Playground
		PH	Park Shelters
		PI	Pipe (Sanitary Main, Foundation Drain Collector Sewer Storm Sewer)
		PL	Parking Lot
		PK	Pump Truck
		PN	Planter
		PO	Pond
		PS	Pumping Station
		PT	Play Structure
		PU	Pump
		PW	Pathways
		RA	Road Allowance
		RB	Road Base
		RC	Rear Lot Catch Basin
		RD	Road
		RK	Rink
		RS	Road Surface
		RW	Retaining Wall
		SA	Safety System
		SB	Sign Banner
		SC	Soccer Field
		SD	Subdrain
		SE	Speed Hump
		SF	Secondary Closed Facility
		SG	Sign
		SI	Stairs
		SK	Skate Park

		SL	Streetlights
		SM	Septic Maintenance
		SN	Smart Sign
		SO	Secondary Entrance Sign (Parks)
		SP	Splash Pad
		SR	Service (Water Service, Sanitary Service, Foundation Drain Collector Lateral (Storm Lateral))
		SS	Sampling Station
		ST	Stormwater Management Area
		SV	Service Valve
		SW	Sidewalk
		SY	Spillway
		TB	Triple Catch Basin
		TC	Tennis Court
		TD	Tile Drainage
		TF	Transformer
		TL	Trail
		TP	Tactile Plate
		TR	Tree
		UF	Utility Street Furniture
		UT	Utility Trench
		VA	Valve
		VC	Valve Chamber
		VY	Volleyball Court
		WB	Water Box
		WC	Well/Cistern
		WL	Woodlot
		WM	Watermain
		WR	Waste Receptacle

The prefix is a 4-digit alpha identifier where:

Sequence

The sequence is a 4-digit numeric identifier. There is no particular order for how the sequence value is assigned. However, this field is 4 characters in length and may require leading zeros, for example:

A **Hydrant** in the **Water Network** within **King City** with a unique identifier of **320** will be assigned **KWHY_0320** as the ID:

King City	Water Network	Hydrant	Separating underscore	Leading zero	Sequence
K	W	HY	_	0	320