	Feature	Geometry	Columns							
Stormwater Structure	Catch Basin	**Point**	Opening Type	Rim Elev (upd)	US_INVERT	US_INVERT	US_INVERT	DS_INVERT	Material	
	Curb Inlet	**Point**	SCDOT Type	Rim Elev (upd)	US_INVERT	US_INVERT	US_INVERT	DS_INVERT	Material	
	Isolation Box	**Point**	Rim Elev	Bottom Weir Elev	Top Weir Elev (remo	Box Bottom Elev	US_INVERT	US_INVERT	US_INVERT	DS_INVERT
	Junction Box	**Point**	Rim Elev	US_INVERT	US_INVERT	US_INVERT	DS_INVERT	Material		
	Pipe	**Line**	US_INVERT	DS_INVERT	Material	Shape	Diameter/Size	Length	Direction	Slope
	Ditch	**Line**	US_INVERT	DS_INVERT	Top Width	Bottom Width	Direction	Slope		
	Box Culvert	**Polygon**	US_INVERT	DS_INVERT	Material	Length	Width	Height	Slope	
	Pond	**Polygon**	Design WSE	DWSE SF	Top of Bank Elev	TOB SF	Bottom Elev	Pond Type	Orifice IE	
	Outfall	**Point**	US_INVERT	DS_INVERT	Material	Flow Control Device				
	Underground Detention	**Polygon**	Manufacturer	Material	DS_INVERT					
	Rooftop Connection	**Point**	Rim Elev	US_INVERT	DS_INVERT					
Green Infrastructure	Rain Garden	**Polygon**	Area	Storage Volume						
	Bioretention	**Polygon**	Area	Storage Volume						
	Wetlands	**Polygon**	Area	Type	Jurisdiction					
	Water Quality Buffer	**Polygon**	Area	Buffered Feature						
	Swale	**Polyline**	Length	Area						
	Green Roof	**Polygon**	Material	Roof Area	Gallons of Capture					
	Permeable Pavement	**Polygon**	Material	Storage Volume						
	Water Quality Device	**Point**	Type	Size	Manufacturer	Model Number	Filter Type	Under Drain		
Public Services	Sidewalk	**Polygon**	Width	Material						
	Sign Post	**Point**	Type	Number of Signs						
	Sign	**Point**	Sign Post ID	Type	Size	Install Date				
Trans	Road	**Line**	Lanes	Lane Width	Material	Road Thickness	Base Thickness	Curb Type	Curb Width	R/W Width
Utilities										
	Easement	**Polygon**	Type	Width	Ownership					

Notes:

1. For all values, include datum used and actual As-Built measurements.
2. An OWNER column will be used and populated for every feature. This will help identify who is actually responsible for the asset and will streamline future owner changes, ie Annexing property.

Catch Basin	
Geometry	Point represents center of catch basin.
Field	**Field Description/Example**
Opening Type	Type of opening into catch basin, ie Honey Comb.
Inlet Elevation	Elevation at which water is collected into the structure.
US_INVERT	Upstream Invert elevation, first connection.
US_INVERT	Optional - Upstream Invert elevation, second connection.
US_INVERT	Optional - Upstream Invert elevation, third connection.
DS_INVERT	Downstream Invert Elevation. Use lowest invert elevation if multiple are used.
Material	Material of Catch Basin, ie concrete or brick.

Curb Inlet	
Geometry	Point represents cent or Curb Inlet.
Field	**Field Description/Example**
SCDOT Type	SCDOT Type of structure, ie Type 1, Type 15, or Type 125.
Throat Elev	Elevation at which water is collected into the structure.
US_INVERT	Upstream Invert elevation, first connection.
US_INVERT	Optional - Upstream Invert elevation, second connection.
US_INVERT	Optional - Upstream Invert elevation, third connection.
DS_INVERT	Downstream Invert Elevation. Use lowest invert elevation if multiple are used.
Material	Material of Catch Basin, ie concrete or brick.

Isolation Box	
Geometry	Point represents ceter of Isolation Box.
Field	**Field Description/Example**
Rim Elev	Elevation at Rim of structure.
Bottom Weir Elev	Elevation at which water reaches the bottom of the weir.
Top Weir Elev	Elevation at the top of the weir opening.
Box Bottom Elev	Elevation at bottom of box.
US_INVERT	Upstream Invert elevation, first connection.
US_INVERT	Optional - Upstream Invert elevation, second connection.
US_INVERT	Optional - Upstream Invert elevation, third connection.
DS_INVERT	Downstream Invert elevation. Use lowest invert elevation if multiple are used.
Material	Material of Catch Basin, ie concrete or brick.

Junction Box	
Geometry	Point represents center of Junction Box.
Field	**Field Description/Example**
Rim Elev	Elevation at rim of structure.
US_INVERT	Upstream Invert elevation, first connection.
US_INVERT	Optional - Upstream Invert elevation, second connection.
US_INVERT	Optional - Upstream Invert elevation, third connection.
DS_INVERT	Downstream Invert elevation. Use lowest invert elevation if multiple are used.
Material	Material of Catch Basin, ie concrete or brick.

Pipe	
Geometry	Line represents center line of pipe.
Field	**Field Description/Example**
US_INVERT	Upstream Invert elevation.
DS_INVERT	Downstream Invert elevation.
Material	Pipe Material, ie RCP or CMP.
Shape	Shape of pipe, ie circular or elliptical.
Diameter/Size	Dimensions provided in inches based on shape in inches, ie round 18" or elleptical 18"x24".
Length	Length of pipe segment in feet.
Direction	Direction of water flow in degrees.
Slope	Slope as percent, ie 0.25%.

Ditch	
Geometry	Line represents center line of ditch.
Field	**Field Description/Example**
US_INVERT	Upstream Invert Elevation.
DS_INVERT	Downstream Invert Elevation.
Direction	Direction of water flow in degrees.
Slope	Slope as percent, ie 0.25%.

Box Culvert	
Geometry	Polygon represents footprint of Box Culvert.
Field	**Field Description/Example**
US_INVERT	Upstream Invert Elevation.
DS_INVERT	Downstream Invert Elevation.
Material	Material of Catch Basin, ie concrete or galvanized steel.
Length	Length in feet.
Width	Width in feet.
Height	Height in feet.
Slope	Slope as percent, ie 0.25%.

Pond	
Geometry	Polygon represents the top of bank extents.
Field	**Field Description/Example**
Design WSE	Design Water Surface Elevation.
DWSE SF	Design Water Surface Elevation square footage.
Top of Bank Elev	Elevation at top of bank.
TOB SF	Top of bank square footage
Bottom Elev	Approximate elevation of bottom of pond.
Pond Type	Wet, dry, etc.
Orifice Elev	Orifice Invert Elevation. If there are multiple orifices, use the lowest Invert Elevation.

Outfall	
Geometry	Point represents center of outfall.
Field	**Field Description/Example**
US_INVERT	Upstream Invert Elevation.
DS_INVERT	Downstream Invert Elevation.
Material	Material of Outfall, ie concrete or brick.
Flow Control Device	Type of control device, if none, note none.

Underground Detention	
Geometry	Polygon represents foot print of underground detention structure.
Field	**Field Description/Example**
Material	Material underground detention structure is made of, ie concrete or CMP.

Rooftop Connection	
Geometry	Point represents location of rooftop connection or clean outs.
Field	**Field Description/Example**
Rim Elev	Material underground detention structure is made of, ie concrete or CMP.

Rain Garden	
Geometry	Polygon represents foot print of rain garden.
Field	**Field Description/Example**
TBD	TBD

Bioretention	
Geometry	Polygon represents foot print of bioretention area.
Field	**Field Description/Example**
TBD	TBD

Wetlands	
Geometry	Polygon represents foot print of wetland area.
Field	**Field Description/Example**
Type	ie Fresh, Salt
Jurisdiction	Jurisdictional or Non-Jurisdictional.

Water Quality Buffer	
Geometry	Polygon represents foot print of water quality buffer area.
Field	**Field Description/Example**
TBD	TBD

Swale	
Geometry	Polyline represents swale feature.
Field	**Field Description/Example**
TBD	TBD

Green Roof	
Geometry	Polygons represents foot print of green roof area.
Field	**Field Description/Example**
TBD	TBD

Permeable Pavement	
Geometry	Polygons represents foot of permeable pavement area.
Field	**Field Description/Example**
Type	Permeable concrete, asphalt, etc.

Water Quality Device	
Geometry	Point represents location of Water Quality Device
Field	**Field Description/Example**
Type	Oil/Water Separator, Modular Wetlands
Size	Dimension of the device
Manufacturer	Manufacturer of the device
Model Number	Model number the device
Filter Type	Organic, Inorganic, or both.

Sidewalk	
Geometry	Polygon that represents boundary of sidewalk.
Field	**Field Description/Example**
Width	Width of Sidewalk in decimal feet.
Length	Length of Sidewalk in decimal feet.
Material	Material of Sidewalk, ie concrete or pavement.

Sign Post	
Geometry	Point representing sign post location
Field	**Field Description/Example**
Type	Type of post, ie town provided or custom.
Number of Signs	Number of signs on post.

Sign	
Geometry	None, table only - location references sign post
Field	**Field Description/Example**
Sign Post ID	Asset ID of post post the sign is attached to.
Type	Type of sign.
Size	Size of sign.
Direction	Direction sign is facing in degrees.

Road	
Geometry	Line - represents centerline of road.
Field	**Field Description/Example**
Lanes	Number of lanes associated with centerline segment, ie 3 lanes.
Lane Width	Width of lane in decimal feet.
Material	Material road is made of, ie asphalt or concrete.
Road Thickness	Thickness of road in inches.
Base Thickness	Thickness of base layer in inches.
Curb Type	Curb type along road segment.
Curb Width	Curb width in inches.
R/W Width	Width of R/W associated with centerline segement.

Easement	
Geometry	Polygon used to identy easement area.
Field	**Field Description/Example**
Type	Type of easement, ie Water, Sewer, Utility, HOA, Drainage, Access, or Other.
Width	Width of easement in feet.
Owner	HOA, Town, County, Parcel Owner, etc.

NOAA's Vertcon tool was used to determine the conversion factor for 8 points around the TOMP. Conversion factors range from -0.971 to -0.988 feet, with a mean value of -0.979, and with a delta of 0.017 or 0.204 inches. Propose using a conversion value of -0.98 for converting all elevation features that are in NGVD29 to NAVD88.