March 19, 2024 File: 0552-001-Bulletins

**City of Beaumont – Engineering & GIS Bulletin #010**
**Record Drawing and GIS Data Requirements Update**

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As our GIS system and record keeping systems evolve, the type and format of data required on record drawings and data will require some changes as well. The City of Beaumont has incorporated feedback received in 2023 on these changes and has now provided alternative options as well. These changes are in line with what many municipalities are moving towards as GIS systems continue to modernize.

Please review the attachments:

- **Revised Section 1.2.4 Geographic Information System (GIS) and Asset Data Update** to replace the existing Section 1.2.4 in the General Design Standards, pages 29-31. All revisions or new items are highlighted in red text.
- **Revised Table 1.2.4 - GIS/CAD Data Specifications** to replace existing Table 1.2.4 - Required Features: Specifies layer naming convention to be used, asset attribute information to be provided and types of features to be represented by points, lines and polygons. The preference is for the AutoCAD file layer name to match the City of Beaumont's layer naming standards. If this is not possible, an excel table is attached with this bulletin and the Consultant's layer name which corresponds to the City of Beaumont layer can be provided in the excel sheet. This completed excel sheet can then be sent with the record drawing files.
- The coordinate system has been revised and record files must now be submitted in **grid**, instead of ground coordinates.
- Minor revisions to Sections 1.3.6 and 1.3.7 to correlate with 1.2.4. Also the requirement for submitting 2 hard copy sets of record drawings has been removed.

Please ensure all record drawings submitted from this point onwards comply with these updated requirements. Please send any comments or questions on these revisions directly to gis@beaumont.ab.ca and cc engineering@beaumont.ab.ca, we greatly appreicate your cooperation on this.

Thank you,

City of Beaumont Engineering and GIS teams

*Attachment: Reivsed Section 1.2.4 Geographic Information System (GIS) and Asset Data Update, Revised Section 1.3.6 Record Drawings and Reports, Revised Section 1.3.7 Landscape Record Drawing Submission, Revised Table 1.2.4 – GIS/CAD Data Specifications (pdf and excel format)*

**March 2024 - REVISED SECTIONS 1.2.4, 1.3.6, 1.3.7 OF BEAUMONT GENERAL DESIGN STANDARDS**

## 1.2.4 Geographic Information System (GIS) and Asset Data Update

Once CCC is issued, all relevant GIS shall be updated with the new asset data and submitted to Engineering Services as part of the 'Record' drawings. Confirmation of the 'Record' drawing data shall also form part of the CCC inspection. Corrected electronic 'Record' drawings must be submitted to Engineering Services within four months of CCC approval.

a. **Drawing Submission**

i. Digital 'Record' Drawings must be submitted in AutoCAD Map3D compatible and PDF formats. AutoCAD drawings shall be formatted as a single file with a layout for each drawing sheet. There must be a separate layer for each type of applicable feature (for example, a layer for water lines and another layer for storm pipe). See revised table 1.2.4 for layer naming specifications. Ensure the:

   a. AutoCAD file layer names match City of Beaumont's layer naming standards (as per table 1.2.4) **OR** populate the column titled "CAD/Shapefile Associated Layer Name" in the attached excel version of table 1.2.4 with the layer name in the AutoCAD file that corresponds with Beaumont's layer naming convention.
   b. City of Beaumont can provide an AutoCAD template upon request with City of Beaumont's layer naming convention pre-populated to assist with this requirement.
   c. PDF files shall be formatted as a single file showing all sheets, and should be a 600 dpi or better resolution.

ii. Submit a zip folder of shapefiles including attribute information for the features. The shapefiles must be projected to **grid** coordinates, NAD 1983 CSRS 3TM 114 (WKID 3780). There must be a separate shapefile for each type of applicable feature (for example, a shapefile for water lines and

another shapefile for storm pipe). See table 1.2.4 for specifications. Ensure the shapefile names match City of Beaumont's layer naming standards (as per table 1.2.4) **OR** populate the column titled "CAD/Shapefile Associated Layer Name" in table 1.2.4 with the shapefile name that corresponds with Beaumont's layer naming convention.

a. The shapefiles must be in a zipped folder (.zip) including its associated files:
    i. .cpg
    ii. .dbf (required)
    iii. .prj (required)
    iv. .sbn
    v. .sbx
    vi. .shp (required)
    vii. .shx (required)

b. **Drawing Presentation** – Drawings submitted must adhere to the following rules:
    i. All drawing objects and text associated with those objects must be located in model space.
    ii. All drawing objects to be shown at actual length and in **grid** coordinates based on NAD 1983 CSRS 3TM 114 (WKID 3780). projection with no scaling, rotating, or shifting required. Local Datum is not permissible.
    iii. All drawings shall be in metric units
    iv. Drawing must be purged of all definitions that are not used such as: layers, layer filters, text styles, dimension styles, blocks, etc.
    v. All objects must be on the appropriate corresponding layer. (For example, water mains on a separate layer from water valves, hydrants etc.) Please see table 1.2.4 for the layer naming convention to be used. Ensure the Shapefile/AutoCAD layer names match City of Beaumont's layer naming standards (as per table 1.2.4) **OR** populate the column titled "CAD/Shapefile Associated Layer Name" in table 1.2.4 with the

layer name in the AutoCAD file that corresponds with Beaumont's layer naming convention.

vi. Newly constructed items must be in a separate layer from existing infrastructure. "E" should be prefixed before the layer name if the asset is already existing. Please see table 1.2.4 for the layer naming convention to be used.

vii. Duplicate objects and text are to be removed.

viii. External References are to be bound within the drawing.

c. **Digital Data Structure** – Point, line, polygon, text, dimensions and asset attribute information in the AutoCAD/Shapefile submission are as follows:

i. **Surface/Polygon features** – Surface/Polygon features within the drawing are to be represented by the AutoCAD command: region. Do NOT use block for surface/polygon features. All surface/polygon features within the drawing are to be on the correct layer. Please see table 1.2.4 for the layer naming convention to be used, asset attribute information and types of features to be represented by surface/polygons.

ii. **Line features** – All linear features within the drawing are to be on the correct layer. Linear features are created by the AutoCAD commands, line, circle, arc and polyline. Lines representing a segment of any utility are to be one segment from point feature to point feature. For example, a water main is drawn as a polyline or line from each valve, reducer, etc. to the next point feature. The lines representing utilities are not to be broken at curves; they are to be one polyline until the next point feature. The exceptions to this rule are water mains that have a 45° or greater bend; the bend is treated as a point feature without requiring symbolic representation. Please see table 1.2.4 for the layer naming convention to be used, asset attribute information and types of features to be represented by lines.

iii. **Point Features** – Point features within the drawing are to be represented by a point or a block. All point features within the drawing are to be on the correct layer. Please see table 1.2.4 for the layer naming convention

to be used, asset attribute information and types of features to be represented by points. Points or Blocks shall be 'snapped' to linear features. All blocks are to be inserted on the layer that corresponds with the feature. Point Features are not to be exploded.

iv. **Text and Dimensions** – All text and dimensions within the CAD file are to be drawn in model space.

v. **Asset Attribute Information** – Please see table 1.2.4 for the attribute information, layer naming convention and geometry type to be used for each asset type. Attribute information is to be populated in the object data table of the CAD template and the shapefiles.

vi. In addition to the information required for digital record drawing submission, the following additional information should also be noted within the submission:

   i. As-Built drawing completion date
   ii. Construction start and end dates
   iii. Street Names within the construction area

vii. Please submit digital information in AutoCAD/Shapefile format for any additional information that is applicable that is not listed in table 1.2.4. For example, location of trails, parks, trees, sports fields, etc.

## 1.3.6 'Record' Drawings and Reports

Within four (4) months of the issuing of a Construction Completion Certificate for the underground utilities the Developer shall submit 'Record' drawings in the form of:

~~a. Two (2) sets of signed and sealed 'Record' drawings in paper print format size A1;~~

b. An electronic copy in PDF format of the signed 'Record' drawing; and,

c. An electronic file in an Auto Cad version acceptable to Engineering Services. The electronic drawing file shall be in a form that includes one overall Auto Cad plan or model. This model must include all improvements and should reference specific overalls, plan profiles etc.

i. One AutoCAD file with layout tabs to be submitted; not separate files

ii. AutoCAD must use coordinate system NAD 1983 CSRS 3TM 114 (WKID 3780), grid coordinates.

d. Please see revised section 1.2.4 for further details on digital file requirements.

### 1.3.7 Landscape 'Record' Drawing Submission Process

'Record' Drawings submission of the signed Landscape drawings shall be submitted by the Developer / Landscape Architect within (4) months following Construction Completion Certificate (CCC) Approval. 'Record' drawing submission required prior to issuance of Final Acceptance Certificate (FAC) paperwork.

The 'Record' Drawing submission shall include the following:

a. Electronic File: Spatially correct AutoCAD file as per revised section 1.2.4

b. PDF File: Full Size set of stamped & signed Landscape drawings

~~c. Hardcopy: Three (3) full sets of stamped and signed Landscape drawings~~

d. Please see revised section 1.2.4 for further details on digital file requirements.

**MARCH 2024 - Revised Table 1.2.4 GIS/CAD Data Specifications**

| CAD Layer/Shapefile Name | Purpose of Layer | CAD/Shapefile Geometry Type | CAD/SHAPEFILE ASSOCIATED LAYER NAME | Required Attribute Fields (field name must match) | Recommended Attribute Fields (field name must match) |
|---|---|---|---|---|---|
| COB_Bridge_Culvert | Bridge Culvert | Line | | Diameter, Installed_Date, Invert_Down, Invert_Up, Length, Material, Slope | N/A |
| COB_Bridge_Culvert_E | Existing Bridge Culvert | Line | | N/A | N/A |
| COB_Culvert | Culvert | Line | | Diameter, Installed_Date, Invert_Down, Invert_Up, Length, Material, Slope | N/A |
| COB_Culvert_E | Existing Culvert | Line | | N/A | N/A |
| COB_Curb | Curb | Line | | Installed_Date | Material, Curb_Length, Curb_Width, Curb_Offset, Curb_Height, Curb_Type |
| COB_Curb_E | Existing Curb | Line | | N/A | N/A |
| COB_Curb_Gutter | Curb Gutter | Line | | Installed_Date | Material, Curb_Length, Curb_Width, Gutter_Width, Curb_Offset, Curb_Height, Curb_Type |
| COB_Curb_Gutter_E | Existing Curb Gutter | Line | | N/A | N/A |
| COB_DRN_Ditch | Drainage Ditch | Point | | Installed_Date | Ditch_Length |
| COB_DRN_Ditch_E | Existing Drainage Ditch | Point | | N/A | N/A |
| COB_Electric_Pole | Electric Pole | Point | | Installed_Date | N/A |
| COB_Electric_Pole_E | Existing Electric Pole | Point | | N/A | N/A |
| COB_Electric_Streetlight | Street Light | Point | | Installed_Date | N/A |
| COB_Electric_Streetlight_E | Existing Street Light | Point | | N/A | N/A |
| COB_Electric_Line | Electrical Line | Line | | Installed_Date | Number of Lines |
| COB_Electric_Line_E | Existing Electrical Line | Line | | N/A | N/A |
| COB_Gravel_Road | Gravel Road | Polygon | | Installed_Date, Base_Material, Surface_Material, Surface_Thickness | Speed |
| COB_Gravel_Road_E | Existing Gravel Road | Polygon | | N/A | N/A |
| COB_Paved_Road | Paved Road | Polygon | | Installed_Date, Base_Material, Surface_Material, Surface_Thickness, Base_Thickness | Speed, Subbase_Material, Subbase_Thickness |
| COB_Paved_Road_E | Existing Paved Road | Polygon | | N/A | N/A |
| COB_Primary_Conductor | Primary Conductor | Line | | Installed_Date | N/A |
| COB_Primary_Conductor_E | Existing Primary Conductor | Line | | N/A | N/A |
| COB_Rain_Gauge | Rain Gauge | Point | | Installed_Date | N/A |
| COB_Rain_Gauge_E | Existing Rain Gauge | Point | | N/A | N/A |
| COB_ROW_Line | Right of Way Lines | Line | | Type | N/A |
| COB_ROW_Line_E | Existing Right of Way Lines | Line | | N/A | N/A |
| COB_San_Flow_Meter | Sanitary Flow Meter | Point | | Installed_Date | N/A |
| COB_San_Flow_Meter_E | Existing Sanitary Flow Meter | Point | | N/A | N/A |
| COB_SAN_MH | Wastewater Sanitary Manhole | Point | | Installed_Date, Cover_Type, MH_Diameter, MH_Height, MH_Size, MH_Type, Rim_Elevation | Inflow_Potential, Invert_In, Invert_Out, MH_Use |
| COB_SAN_MH_E | Existing Wastewater Sanitary Manhole | Point | | N/A | N/A |
| COB_SAN_Pipe | Wastewater Sanitary Pipe | Line | | Installed_Date, Invert_Down, Invert_Up, Pipe_Height, Pipe_Slope, Pipe_Material, Pipe_Width | Pipe_Use, Lined_Date, Lining_Material, Lining_Method, Measured_Length, Pipe_Use, Pipe_Shape |
| COB_SAN_Pipe_E | Existing Wastewater Sanitary Pipe | Line | | N/A | N/A |
| COB_SAN_Service | Wastewater Sanitary Service | Line | | Installed_Date, Invert_Down, Invert_Up, Pipe_Material, Pipe_Size | Lined_Date, Lining_Material, Lining_Method, Measured_Length, Pipe_Slope, Pipe_Use |
| COB_SAN_Service_E | Existing Wastewater Sanitary Service | Line | | N/A | N/A |
| COB_SAN_SWMF | Sanitary Water Management Facility | Polygon | | Installed_Date, Bottom, Drainage_Area, Max_Storage | Type |
| COB_SAN_SWMF_E | Existing Sanitary Water Management Facility | Polygon | | N/A | N/A |
| COB_SAN_Valve | Wastewater Sanitary Valve | Point | | Installed_Date | Manufacturer, Valve_Size, Valve_Type |
| COB_SAN_Valve_E | Existing Wastewater Sanitary Valve | Point | | N/A | N/A |
| COB_SAN_Inspection_Chamber | Sanitary Inspection Chamber | Point | | Installed_Date | Material |
| COB_SAN_Inspection_Chamber_E | Existing Sanitary Inspection Chamber | Point | | N/A | N/A |
| COB_Sidewalk_Edge | Sidewalk Edge | Line | | Installed_Date | Material |
| COB_Sidewalk_Edge_E | Existing Sidewalk Edge | Line | | N/A | N/A |
| COB_Sidewalk_Surface | Sidewalk Surface | Polygon | | Installed_Date | Material |
| COB_Sidewalk_Surface_E | Existing Sidewalk Surface | Polygon | | N/A | N/A |
| COB_Sidewalk | Sidewalk Centreline | Line | | Installed_Date | Material,  Base_Material, Surface_Material, Surface_Thickness, Base_Thickness, Subbase_Material, Subbase_Thickness |
| COB_Sidewalk_E | Existing Sidewalk Centreline | Line | | N/A | N/A |
| COB_STM_CB | Drainage Storm Catch Basin | Point | | Installed_Date, Diameter, Rim_Elevation | Frame_and_Cover, Material |
| COB_STM_CB_E | Existing Drainage Storm Catch Basin | Point | | N/A | N/A |
| COB_STM_CBMH | Drainage Storm Catch Basin Manhole | Point | | Installed_Date, Invert_In_1, Invert_Out_1, Rim_Elevation, Material | OrificeSize |
| COB_STM_CBMH_E | Existing Drainage Storm Catch Basin Manhole | Point | | N/A | N/A |
| COB_STM_Ceptor | Drainage Storm Ceptor | Point | | Installed_Date, Invert_In_1, Invert_Out_1, Rim_Elevation | Material |
| COB_STM_Ceptor_E | Existing Drainage Storm Ceptor | Point | | N/A | N/A |
| COB_STM_Control | Drainage Storm Control | Point | | Installed_Date | Type |
| COB_STM_Control_E | Existing Drainage Storm Control | Point | | N/A | N/A |
| COB_STM_Inlet | Drainage Storm Inlet | Point | | Installed_Date | Type, Invert |
| COB_STM_Inlet_E | Existing Drainage Storm Inlet | Point | | N/A | N/A |
| COB_STM_MH | Drainage Storm Manhole | Point | | Installed_Date, Rim_Elevation, Diameter, Invert_In_1, Invert_Out_2, Material | OrificeSize |
| COB_STM_MH_E | Existing Drainage Storm Manhole | Point | | N/A | N/A |
| COB_STM_Outlet | Drainage Storm Outlet | Point | | Installed_Date | Type, Invert |
| COB_STM_Outlet_E | Existing Drainage Storm Outlet | Point | | N/A | N/A |
| COB_STM_Pipe | Drainage Storm Pipe | Line | | Installed_Date, Size, Invert_Up, Invert_Down, Slope, Type | Length, Year_Lining |
| COB_STM_Pipe_E | Existing Drainage Storm Pipe | Line | | N/A | N/A |
| COB_STM_Pump | Drainage Storm Pump | Point | | Installed_Date | Type |
| COB_STM_Pump_E | Existing Drainage Storm Pump | Point | | N/A | N/A |
| COB_STM_Service | Drainage Storm Service | Line | | Installed_Date, Type, Size | Invert_In, Invert_Out, Pipe_Material |
| COB_STM_Service_E | Existing Drainage Storm Service | Line | | N/A | N/A |
| COB_STM_Swale | Drainage Storm Swale | Line | | Installed_Date | Type |
| COB_STM_Swale_E | Existing Drainage Storm Swale | Line | | N/A | N/A |
| COB_STM_SWMF | Storm Water Management Facility | Point | | Installed_Date, Bottom, Drainage_Area, Max_Storage | Type |
| COB_STM_SWMF_E | Existing Storm Water Management Facility | Point | | N/A | N/A |
| COB_STM_Valve | Drainage Storm Valve | Point | | Installed_Date | Type |
| COB_STM_Valve_E | Existing Drainage Storm Valve | Point | | N/A | N/A |
| COB_WTR_CC | Water Curb Cock Valve | Point | | Installed_Date, CC_Material, CC_Size | CC_Function, CC_Box_Material, CC_Type, Position, Rod_Material, Surrounding_Surface |
| COB_WTR_CC_E | Existing Water Curb Cock Valve | Point | | N/A | N/A |
| COB_WTR_FlushPoint | Water Flush Point | Point | | Installed_Date | Drain_Plugged, Flush_Point_Type, Rod_Material, Surrounding_Surface, Valve_Material |
| COB_WTR_FlushPoint_E | Existing Water Flush Point | Point | | N/A | N/A |
| COB_WTR_Hot_Tap | Water Hot Tap | Point | | Installed_Date | Manufacturer, Material, Size |
| COB_WTR_Hot_Tap_E | Existing Water Hot Tap | Point | | N/A | N/A |
| COB_WTR_Hydrant | Water Hydrant | Point | | Installed_Date, Manufacturer, Pipe_Size | Hydrant_Flow_Capacity, Rod_Length, Rod_Type, Anode_Installed,  Dead_End, Hydrant_Capacity, Surrounding_Surface, Upper_Rod_Type |
| COB_WTR_Hydrant_E | Existing Water Hydrant | Point | | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| COB_WTR_Isolation_Valve | Water Isolation Valve | Point | | Installed_Date | Casing_Type, Manufacturer, Valve_Type |
| COB_WTR_Isolation_Valve_E | Existing Water Isolation Valve | Point | | N/A | N/A |
| COB_WTR_Main_Valve | Water Main Valve | Point | | Installed_Date | Casing_Type, Manufacturer, Boundary_Valve, Valve_Orientation, Valve_Type |
| COB_WTR_Main_Valve_E | Existing Water Main Valve | Point | | N/A | N/A |
| COB_WTR_Pipe | Water Main Pipe | Line | | Installed_Date, Pipe_Length, Pipe_Material, Pipe_Size | N/A |
| COB_WTR_Pipe_E | Existing Water Main Pipe | Line | | N/A | N/A |
| COB_WTR_Pump | Water Pump | Point | | Installed_Date | Pump_Type |
| COB_WTR_Pump_E | Existing Water Pump | Point | | N/A | N/A |
| COB_WTR_Reducer | Water Reducer | Point | | Installed_Date | Manufacturer, Material, Size_1 |
| COB_WTR_Reducer_E | Existing Water Reducer | Point | | N/A | N/A |
| COB_WTR_Reservoir | Water Reservoir | Polygon | | Installed_Date | Capacity |
| COB_WTR_Reservoir_E | Existing Water Reservoir | Polygon | | N/A | N/A |
| COB_WTR_Service | Water Service Pipe | Line | | Installed_Date, Pipe_Material, Pipe_Size | Pipe_Length, Connection_Type |
| COB_WTR_Service_E | Existing Water Service Pipe | Line | | N/A | N/A |
| COB_WTR_Service_Valve | Water Service Valve | Point | | Installed_Date | Manufacturer, Boundary_Valve, Casing_Type, Valve_Orientation, Number_of_Turns, Normal_Postion |
| COB_WTR_Service_Valve_E | Existing Water Service Valve | Point | | N/A | N/A |
| COB_Street_Centreline | Street Centreline | Line | | Installed_Date, Type | Surface_Material, Direction, MaxSpeed, Name, Class,  Base_Material, Surface_Thickness, Base_Thickness, Subbase_Material, Subbase_Thickness |
| COB_Street_Centreline_E | Existing Street Centreline | Line | | N/A | N/A |
| COB_Trail_E | Existing Trail | Line | | N/A | N/A |
| COB_Trail | Trail | Line | | Installed_Date, Surface_Material, Surface_Thickness, Base_Material, Base_Thickness | Subbase_Material, Subbase_Thickness |
| COB_Crosswalk_E | Existing Crosswalk | Polygon | | N/A | N/A |
| COB_Crosswalk | Crosswalk | Polygon | | Installed_Date, Width, Surface_Material, Type, Length, Width | Marking_Material |
| COB_Pavement_Marking_Line_E | Existing Pavement Marking Line | Line | | N/A | N/A |
| COB_Pavement_Marking_Line | Pavement Marking Line | Line | | Installed_Date, Purpose, Marking_Material, Length, Line_Type, Line_Width, Colour | N/A |
| COB_Parking_Lot_E | Existing Parking Lot | Polygon | | N/A | N/A |
| COB_Parking_Lot | Parking Lot | Polygon | | Installed_Date, Surface_Material, Surface_Thickness, Base_Material, Base_Thickness | Subbase_Material, Subbase_Thickness,  No_of_Stalls |
| COB_Parking_Lot_Marking_E | Existing Parking Lot Marking | Line | | N/A | N/A |
| COB_Parking_Lot_Marking | Parking Lot Marking | Line | | Installed_Date, Purpose, Marking_Material, Length, Line_Type, Line_Width, Colour | N/A |
| COB_Sign_E | Existing Sign | Point | | N/A | N/A |
| COB_Sign | Sign | Point | | Installed_Date, Width, Height, Direction_Facing, Sign_Class, Description, Post_Type | MUTCD_Code, Colour |
| COB_Bench | Bench | Point | | Installed_Date, Mount, Type | Pad, Pad_size_cm, Length_cm, Width_cm, Bench_Colour, Base_Colour |
| COB_Bench_E | Existing Bench | Point | | N/A | N/A |
| COB_Bleacher | Bleacher | Polygon | | Installed_Date, Manufacturer | Length_in_m, Height_in_m, Number_of_Rows, Seating_Capacity, Style, Colour |
| COB_Bleacher_E | Existing Bleacher | Polygon | | N/A | N/A |
| COB_Fence | Fence | Line | | Installed_Date, Manufacturer, Material | N/A |
| COB_Fence_E | Existing Fence | Line | | N/A | N/A |
| COB_Picnic_Table | Picnic Table | Point | | Installed_Date, Mount, Type | Width_cm, Length_cm, Pad, Pad_size_cm, Base_Colour, Bench_Colour |
| COB_Picnic_Table_E | Existing Picnic Table | Point | | N/A | N/A |
| COB_Playground_Apparatus | Playground Apparatus | Point | | Installed_Date, Type, Manufacturer | Colour |
| COB_Playground_Apparatus_E | Existing Playground Apparatus | Point | | N/A | N/A |
| COB_Tree | Tree | Point | | Installed_Date, Species, Height | N/A |
| COB_Tree_E | Existing Tree | Point | | N/A | N/A |
| COB_Bollard | Bollard | Point | | Installed_Date, Shape_of_Bollard | Surface_Treatment |
| COB_Bollard_E | Existing Bollard | Point | | N/A | N/A |
| COB_Curb | Curb | Line | | Installed_Date, Curb_Type, Material, Curb_Width_in_cm, Curb_Height_In_cm | Direction |
| COB_Curb_E | Existing Curb | Line | | N/A | N/A |
| COB_Curb_Gutter | Curb and Gutter | Line | | Installed_Date, Curb_Type, Material, Gutter_Width_in_cm, Curb_Height_In_cm | Direction |
| COB_Curb_Gutter_E | Existing Curb and Gutter | Line | | N/A | N/A |
| COB_Curb_Ramp | Curb and Ramp | Point | | Installed_Date, Type, Surface_Material, Surface_Thickness_in_cm, Base_Material, Base_Thickness_in_cm | N/A |
| COB_Curb_Ramp_E | Existing Curb and Ramp | Point | | N/A | N/A |
| COB_Guardrail | Guardrail | Line | | Installed_Date, Type, Material | Size |
| COB_Guardrail_E | Existing Guardrail | Line | | N/A | N/A |
| COB_Gutter | Gutter | Line | | Installed_Date, Type, Material, Width_in_cm | N/A |
| COB_Gutter_E | Existing Gutter | Line | | N/A | N/A |
| COB_Median | Median | Polygon | | Installed_Date, Type, Surface_Material, Surface_Thickness, Base_Material, Base_Thickness_in_cm | N/A |
| COB_Median_E | Existing Median | Polygon | | N/A | N/A |
| COB_Sidewalk | Sidewalk | Line | | Installed_Date, Type, Width_in_m, Surface_Material, Surface_Thickness_in_cm, Base_Material, Base_Thickness_in_cm | N/A |
| COB_Sidewalk_E | Existing Sidewalk | Line | | N/A | N/A |