1.4 Electronic As-Builts

Per Section 31-117(b)(18) and Section 29-5 of the City of Little Rock's Municipal Code, the City of Little Rock Public Work's Department requires as-built plans and information submitted from the engineer of record with final plats; request for certificates of occupancies on building permits; and following street and drainage infrastructure construction projects. Plans and information should be provided on public and private stormwater drainage systems installed and/or modified.

Final approval shall not be given until the City Engineering Department receives an electronic copy of the Stormwater Drainage Features As-Built, in either a compatible ArcGIS file format (Esri shapefile or Esri geodatabase), or AutoCAD .dwg file format. The As-Built Plan drawings shall be in State Plane Arkansas North Zone coordinates, with the datum being North American Datum 1983 with units as feet. The As-Built drawings shall have the stormwater features drawn in a separate layer in AutoCAD so the features can be easily separated from other layers in the drawing. The associated attribute data table will conform to the approved specifications contained in the "SW Attribute Data Entry Template.xlsx" as provided by the City's Public Works Department. On the As-Built Plans, all Control, Linear and Junction map features will be annotated by a unique identifier that will correspond to the same unique identifier in the "SW Attribute Data Entry Template.xlsx" or GIS attribute table. All <u>required</u> attribute information for each Linear and Junction feature will be completed in the "SW Attribute Data Entry Template.xlsx" or GIS attribute table as follows, or as indicted by bold column headings in the "SW Attribute Data Entry Template.xlsx", using the domain values found therein:

- **<u>Control Features</u>**
  - *Control ID* – unique number corresponding to the feature's annotation on the drawing
  - *Control Type* – type of control device*
  - *Diameter*
  - *Location Description* – Text description of the physical location of this feature
  - *Owner* - The name of the city the conveyance is located in or responsible for maintenance
  - *Date of Information* - The date of most recent update or verification of data
  - *Installation Date* - The date of actual construction or installation
  - *As-built File Name* - Filename for linking an image
  - *Comments*
- **<u>Linear Features</u>**
  - *Linear ID* – unique number corresponding to the feature's annotation on the drawing
  - *Linear Type* - type of linear feature*
  - *Quantity* - number of identical parallel parts at location, such as a multi-barrel culvert
  - *Pipe Size* – diameter of a round pipe (or round-equivalent for other shapes), in inches
  - *Cross Section Shape* – shape of the cross section of the linear feature or conveyance
  - *Material* – material forming the linear feature or conveyance
  - *Depth* – Depth of an open channel, or interior height of a covered conveyance, in inches
  - *Top Width* – Width of the top of the feature opening or open channel, in inches
  - *Bottom Width* - Width of the bottom of the feature opening or open channel, in inches

- *Upstream invert*
- *Downstream invert*
- *Slope*
- *Date of Information*
- *Owner* – The name of the city the conveyance is located in or responsible for maintenance
- *Installation Date* – The date of actual construction or installation
- *As-built File Name* – Filename for linking an image
- *Comments/Notes*

- **Junction Features**
  - *Junction ID* – unique number corresponding to the feature's annotation on the drawing
  - *Junction Type* – type of network junction feature*
  - *Box Type* – type or function of the Stormwater box. (leave blank for other Junction types)*
  - *Material* – Construction material of the structure*
  - *Curb Inlet Wing* – Approx. Width of opening.
  - *Head-wall Wing* – Wing walls at a Headwall/Endwall
  - *Flared End* – Flared End Section Yes/No
  - *Trash Rack* – Whether an inlet has a trash rack to keep trash or debris from entering (Y/N)
  - *Manhole* – Whether the structure has a manhole for entry (Y/N)
  - *Access Type* – Method of access for entry into structure
  - *Access Diameter* – Size of access in inches
  - *Throat Width* – Width of inlet opening in decimal feet.
  - *Throat Height* – Height of inlet opening in inches
  - *Throat Area* – Area of inlet opening in square feet
  - *Inlet Dimensions* – Text description for dimensions of an irregular curb inlet
  - *Grate Size* – Text description for dimensions of a grate opening
  - *Top Elevation* – Elevation of the top of the structure, or manhole rim, in decimal feet
  - *Outlet Invert Elevation* – Elevation of the invert of the flow outlet, in decimal feet
  - *Inlet (1, 2, 3, etc.) Invert Elevations* – Elevation of the invert of each of the flow inlets (clockwise from outlet), in decimal feet
  - *Box Depth* – depth from the top of the structure to the bottom of the sump or structure interior, in decimal feet
  - *Owner* – The name of the city the structure is located in or responsible for maintenance
  - *Date of Information* – The date of most recent update or verification of data
  - *Installation Date* – The date of actual construction or installation
  - *As-Built File Name* – File name for linking an image
  - *Comments*

*NOTE: for list of possible values for each attribute column see "SW Attribute Data Entry Specifications.pdf" as provided by City of Little Rock Public Works. If the material is not listed, choose "Other" and describe in the comments field.