

**CONSTRUCTION RECORD  
DRAWING REQUIREMENTS**

**SECTION 19**

## CONSTRUCTION RECORD DRAWING REQUIREMENTS

1. After construction is completed, Construction Record Drawings are to be prepared and provided to the City by the Developer's Engineering Firm. The record drawings must be submitted on reproducible mylar/sepia and in electronic form in accordance with *Engineering Standards for Utility and Street Construction Plans* section. The developer's engineer shall perform the following field work prior to preparation of the record drawing:
  - A...Sanitary sewer and storm sewer manhole and catch basin tops and inverts, flared end section inverts and any other structure elevations shown on the approved construction plans must be field surveyed, the actual elevations recorded to the nearest 0.1', and the pipe grades recorded to the nearest .01%.
  - B...Sanitary sewer and storm sewer lines must be measured from center of casting to center of casting or from center of casting to end of flared end and the lengths recorded to the nearest 0.5 feet.
  - C...All changes from planned pipe, structure or hydrant locations must be recorded.
  - D...Field shot top nut hydrant elevations are required for each hydrant on the construction record drawings.
  - E...GPS coordinates of curb boxes, draintile services stubs, cleanouts, ends of sanitary sewer, storm sewer and watermain, and watermain valves.
2. All changes from the original plans should be crossed out and as-constructed information added to the Construction Record Drawings.
3. The City's Engineering Department or the City's consultant will submit to the Developer's Engineering Firm a red line drawing with information covering any changes for Items A through H below. This information is to be added to the "record drawings" prior to submission to the City's Engineering Department. One "record drawing" blue line set and the field red line set is to be submitted by the Developer's Engineer. The identified information is to be added to the electronic files, without deleting any of the original design. All GPS coordinates shall be submitted as x,y Dakota County coordinates using the North American Vertical Datum of 1988 (NAVD88).
  - A...GPS coordinates of curb boxes (provided by the Developer's Engineer) and stationing of sanitary sewer service wyes shown. GPS coordinates of draintile service stub and cleanouts (provided by the Developer's Engineer). Lengths of sanitary sewer, water and draintile services for each lot including any fittings and risers.
  - B...Actual distances from the center of casting to ends of stubs for both sanitary sewer and storm sewer.
  - C...GPS coordinates for ends of sanitary sewer, storm sewer and watermain (provided by the Developer's Engineer).

D...GPS coordinates for watermain valves (provided by Developer's Engineer)..

E...Name of contractor and construction representative.

F...Locations and stationing of all watermain fittings (i.e. bends, tees, plugs, etc.)

G...A material list added to the coversheet that includes manufacturer, type, size and class of all piping, fittings, valves, boxes, brass and stop boxes.

H...Locations of field changes for sand subcuts, fabric, materials etc. shown if different from the original typical street section design.

4. The City or the City's consultant's field representative will complete service tie sheets. The tie sheets will be completed on an 8 ½ x 11 pink-colored sheet showing the lot, block addresses, lengths of services, ties to curb boxes, stationing for sanitary sewer wye, invert elevation of end of service and draintile service stub ties with invert elevations and depth. This information shall be submitted directly to the Engineering Department for distribution.

5. MnOPS REQUIREMENTS:

A...At the time of utility plan approval the developer's engineer shall submit in Electronic Format x, y Dakota County coordinates for all items in the City of Lakeville point code. (See Construction Plan Sheet Format Requirements.)

B...Prior to connection of the individual lots to the public utilities, the developer's engineer shall submit in Electronic Format x, y, and z Dakota County coordinates for all items in the City of Lakeville point code list.