

16.06.050 – Final engineering plans

A. General Requirements

1. All plans and specifications shall be prepared by a Licensed Professional Engineer, and shall bear the engineer's signature and seal.
2. All plans shall describe an adequate number of benchmarks, with elevations referenced to Mean Sea Level and the City's Geodetic Control Station Network, so that elevations may be checked at any point without more than one setup of a surveyor's level.

B. Required Information- The Final Engineering Plans shall include the following in addition to the information required in the Section 16.08.030, "Preliminary Engineering Plans."

1. Title Sheet:

- a. Plans to be on 24-inch by 36-inch sheets
- b. A title sheet shall be included with each set of plans and includes:
 - i. Name of the subdivision and unit number
 - ii. Type of work covered
 - iii. Location map showing relation of area to be improved to streets
 - iv. An index of sheets
 - v. A summary of quantities
 - vi. Name, address, and seal of Licensed Professional Engineer preparing the plans
 - vii. Date of preparation and revisions, if any
- c. Plan and profiles of proposed roadways and utilities as required by the Development Engineering Division Manager.
- d. Horizontal scale shall be no less than 1 inch to 50 feet.
- e. Vertical scale shall be no less than 1 inch to 5 feet.
- f. Cross sections as required by the Development Engineering Division Manager.
 - i. Horizontal and vertical scales are no less than 1 inch to 10 feet.
 - ii. North direction is shown for each separate plan view.
- g. An adequate number of bench marks shown with elevations referenced to Mean Sea Level and the City's Geodetic Control Network, to facilitate checking of elevations without more than one setup of a surveyor's level.
- h. Delineation shown of all easements necessary to serve all lots with underground and overhead utilities, and to allow for perpetual maintenance of these facilities.

2. Sanitary Sewer Improvements

- a. An authorized Illinois Environmental Protection Agency permit for the public sanitary sewer extensions or sewer connections as required by the IEPA shall accompany the plans.
- b. Sanitary sewer calculations, plans and specifications, including all standard details, shall be complete and conform to the minimum standards as set forth in Section 16.08.070.C, "Sanitary Sewer General Requirements" and the Engineering Design and Inspection Policy Manual.

3. Water Main Improvements

- a. An authorized Illinois Environmental Protection Agency permit for the public water main installation shall accompany the plans.
- b. Water distribution calculations, plans and specifications, including all standard details, shall be complete and conform to the minimum standards as set forth in Section 16.08.070.D, "Water Supply General Requirements" and the Engineering Design and Inspection Policy Manual

4. Roadway, Storm Sewer, & Grading Improvements

- a. Street plans, specifications, and calculations including storm sewers, shall be complete and conform to the standards listed in Section 16.08.020, "Streets and Right-of-Ways" and the minimum standards set forth in the Engineering Design and Inspection Policy Manual
- b. The location of streets and width of pavements shall conform to those indicated on the approved preliminary plan
 - i. Street plans shall show all horizontal and vertical alignment. Curve data for horizontal and vertical curves shall be included on the plan sheets
- c. Plan shows curb, gutter, and sidewalk locations
- d. Cross sections shall be submitted as necessary to indicate feasibility of proposed street elevations in relation to adjacent lot elevations, and include sidewalk location
- e. Profiles shall be submitted for all paving centerlines and storm sewers per the standards set forth in the Engineering Design and Inspection Policy Manual. Profiles for sanitary sewer and water main shall be provided as required by the Development Engineering Division Manager
- f. Storm sewer system, designed to comply with the standards set forth in the Engineering Design and Inspection Policy Manual

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- g. Storm sewer design calculations shall be submitted with the plans
 - h. Final Stormwater report and supporting calculations in compliance with Title 18, "Stormwater Management" of the City of St. Charles Municipal Code
 - i. Street signs shall be shown at all street intersections and meet the standards as set forth in the Engineering Design and Inspection Policy Manual
 - j. Soil erosion and sediment control measures consistent with NPDES requirements, the City of St. Charles Engineering Design and Inspection Policy Manual, and the Kane County Stormwater Ordinance as adopted by the City on November 13, 2008, as amended from time to time
 - k. Landscaping and Tree Planting Plans depicting clearances from all utilities and appurtenances
5. All other items listed in the Final Engineering Plans checklist set forth in Appendix E.

(2012-M-45 : § 2)