



Appendix D-4

RECORD DRAWING REQUIREMENTS

Record Drawings shall comply with the most current GIS standards and shall include all control points using the state plan coordinates and monuments. Record Drawings shall include the following information:

1. General Information

- a. Project or subdivision name
- b. Scale & north arrow
- c. Legend or clearly labeled symbols
- d. Horizontal & vertical datum
- e. Clear location map
- f. Developer's name, address and phone number
- g. Name & address of registered professional
- h. Statements of Engineer, Contractor, Surveyor and JWSC
- i. Plans clearly show delineation between private infrastructure & public infrastructure

2. Drainage

- a. Manhole invert, inlets, pipe inverts, frames, headwall, and end treatments elevations (MSL).
- b. Length, grade, diameter, pipe material between structures, manholes, inlets and end treatments.
- c. Locations of structures, headwall, manholes, inlets, and end treatments in relation to right-of-way lines, property lines, and other permanent structures.
- d. Locations of line, slope, width, and depth of ditches, swales, canals, and drainage basins.

3. Pavement

- a. Edge of pavement when it differs more than two feet from approved construction drawings.
- b. Pavement profiles when grade of installed paving differs more than 0.1 percent from proposed grades.
- c. Areas where conditions require alternative bases or subgrade material or treatment.

4. Water

- a. Location of water mains, length b/w valves, bends, and tees, depth, grade and diameters.
- b. Locations of valves, blow-offs, fire hydrant, and service leads/meters locations in relation to property lines, road intersections and other permanent structures.
- c. Locations of all service laterals. Measurements shall be from permanent structures and shall indicate the location of the connection at the main and the location at the property line with depth to the end of the service lateral at the property line.
- d. Reference table of state plane coordinates of isolation valves, fire hydrants, water service ends (not applicable for Private Systems)
- e. Distance from adjacent property corners, curb lines or other fixed point
- f. Delineated water easements to be dedicated (15 feet water in center unless otherwise approved)
- g. Northing and Easting coordinates for all water appurtenances as well as underground fittings.



5. Sanitary Sewer

- a. Manhole invert elevations (MSL), invert elevations of all mains at the manhole and elevations of all manhole tops.
- b. Lateral locations measured from the downstream manhole at the main, and at the property line if the lateral is not perpendicular to the main.
- c. Length, grades, size and type of material between manholes.
- d. Locations of manholes in relation to the right-of-way lines, property lines, and other permanent structures.
- e. Northing and Easting coordinates for all sewer appurtenances as well as underground fittings.

6. Gravity Collection & Force Mains

- a. Rim Elevation & inverts of all pipes entering/leaving manholes
- b. Location of manholes, service clean-out/stub-out, isolation and air release valves, sewer mains, force mains & service lines clearly labeled
- c. Reference table provided State Plane Coordinates of manholes, isolation, and air release valves (not applicable for private systems)
- d. Pipe diameter, length, material and grades on gravity sewer lines
- e. Show storm drain crossings & length of ductile iron or concrete encased pipe as applicable
- f. Service lateral stationing, depth of service pipe at marker, distance behind marked curb & distance to one adjacent property corner
- g. Tax assessors' parcel identification number & platted subdivision lot number or E-911 address
- h. Delineated sanitary sewer easements to be dedicated (20' w/sewer in center unless otherwise approved)

7. Sewer Lift Stations and Force Mains

- a. Actual Elevations of wet well influent line inverts, bottom of wet well at lowest point, top of slab over wet well, & top of discharge line leaving wet well going to valve pit vault
- b. Location, diameter, length and pipe type of force mains
- c. Lift Station property lines w/ access road if applicable

8. Other

- a. Locations of all special construction requirements in addition to the above such as
 - i. Sheeting left in place;
 - ii. Concrete cradles;
 - iii. Concrete encasement; end of casings; and
 - iv. Section of casing and carrier pipe depicting the material and installation requirements if different from the approved construction plans.