

# CITY OF BLAINE

## RECORD DRAWING SURVEY REQUIREMENTS

### WATER SYSTEM

1. Elevation on top nut of all hydrants.
2. Gate valves need two ties to a hydrant, catch basin, manhole, or light pole. Utility boxes are not acceptable.
3. Curb stops need two ties to a hydrant, catch basin, manhole, or light pole. Utility boxes are not acceptable.

### SANITARY SEWER

1. Distance between manholes, percent of grade, pipe size and material.
2. Elevations of top of castings and inverts.
3. Wye locations if changed from proposed location.
4. Elevations of sanitary services at curb stop locations if changed from proposed.
5. Cleanouts need two ties to a hydrant, catch basin, manhole, or light pole. Utility boxes are not acceptable.

### STORM SEWER

1. Distance between structures, percent of grade, pipe size and material.
2. Elevations for top of casting, inverts and flared end sections.
3. As-built details on sumps, Stormceptors, V2B1's, Ecostorms, etc.
4. As-built information on pond outlet structures.

### GRADING PLAN

1. As-built elevations for drainage swales, pond contour data, infiltration trenches, rain gardens, etc.
2. Electronic copy of the development hydrology calculations (HydroCad) in CD format.

### NOTES

1. If elevations, distance, or percent of grade has changed from proposed, you should strike one line thru proposed and place as-built information next to it.
2. All ties should be less than 100 feet if possible.
3. All distances are to be measured to center of manholes, gate valves, hydrants, and back of curb center on a catch basin.
4. A 24"x36" paper copy should be supplied to the City Engineering Department for review. After the review is complete the City will require record drawings to be submitted in both electronic (AutoCad and Global Positioning System) CD format and a hard-copy (mylar) format.
5. Global Positioning System information should be sent preferably as an ESRI shape file. At a minimum we need a **PNEZD** (point, northing, easting, elevation, description) text file and what coordinate system the points are in. Any questions on GPS should be directed towards GIS Coordinator Jeremy Johnson at 763-717-2639.