

# 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 castings, inverts and flared end sections.
3. As-built details on sumps, Stormceptors, V2B1's, Ecostorms, etc. Sump depths must be placed on record drawings along with rim and inverts.
4. As-built information on pond outlet structures.
5. A required inventory information sheet is attached for reference.

## GRADING PLAN

1. As-built elevations for drainage swales, pond contour data, infiltration trenches, rain gardens, etc.

## 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 paper copy or PDF 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 11" X 17" (correctly scaled) Mylar format.
5. Global Positioning System information will be required; the preferred format is ESRI shapefile, or file geodatabase, with metadata for the feature class and object data (attributes) for the features. If it is not possible to send a shapefile or file geodatabase, a PNEZD (point, northing, easting, elevation, description) text file (with descriptions) in either Anoka County NAD 83 or UTM coordinate system and DWG files of the utilities (points and lines), street right of way, curb and street centerline will also be required.

Questions should be directed towards GIS Coordinator Cory Richter at [crichter@blainemn.gov](mailto:crichter@blainemn.gov) or 763-717-2639. GPS and DWG files should be sent to <https://www.dropbox.com/request/06ViTArJAyYM1e1o3yn9>

**Required Inventory Information\***

BMP Type	ALL					Type-Specific										
	BMP ID	BMP Type	Install Date	Inlets	Outlets	Impervious Area Treated	Drainage Area	Treatment Capacity	Footprint	Treatment Rate	Wet Pool Capacity	Infiltration Rate	Drawdown Time	Obs Port Standing Water	Obs Port Accumulation	Maintenance Interval
						acres	acres	cu-ft, ac-ft	sq-ft, ac	cfs	cu-ft, ac-ft	in/hr	hrs	-	-	months
Bed Filter	x	x	X	x	x	x	x	x	x	x						
Biofiltration	x	x	x	x	x	x	x									
Bioretention	x	x	x	x	x	x	x									
Bioswale	x	x	x	x	x	x	x									
Detention Basin	x	x	x	x	x	x	x	x	x				x			
Drop Inlet	x	x	x	x	x	x	x									
Dry Basin	x	x	x	x	x	x	x	x	x			x	x			
Filtration Device	x	x	x	x	x	x	x									
Infiltration Basin	x	x	x	x	x	x	x	x	x			x				
Infiltration Feature	x	x	x	x	x	x	x									
Media Filter	x	x	x	x	x	x	x	x	x	x						
Pervious Pavement	x	x	x	x	x	x	x									
Retention Basin	x	x	x	x	x	x	x	x	x		x					
Sediment Trap	x	x	x	x	x	x	x									
Settling Basin	x	x	x	x	x	x	x	x	x							
Treatment Vault	x	x	x	x	x	x	x	x	x	x						
Wet Basin	x	x	x	x	x	x	x	x	x		x		x			
Closed Space	x	x	x	x	x	x	x							x	x	x

*\*Information is also required for ALL radio button fields, including: trash full capture, status, property ownership, visible screen, system accessibility, low flow bypass, dry weather diversion, and capture & reuse.*