

**Worksheet for
Water & Sewer Services**

Evanston Water Department
555 Lincoln Street
Evanston, IL 60201
(847)866-2942

Application # _____ WSNS _____ Received _____

Application Procedure: Please complete this worksheet *and* a **Building permit application**. **Submit this application along with a drawing showing the water and sewer services, parkway trees if applicable, sidewalk, driveway and where the service will enter the building.** The Plumbing Inspector and the Water/Sewer department will review the submission and drawing. Once it is approved by both departments, the Water Department will assess the permit fees; the Building Department will notify you to pay and pick-up the permit.

If a parkway or street opening is needed please see the Traffic Engineering Office.

Property Owners Name: _____ **Phone Number** _____

Company Name: _____

Contact Person: _____ **Phone Number:** _____

Plumber's Name: _____ **License #:** _____

Address of Construction: _____

Building Use (circle) Residential – Multi-Family – Commercial

Requested size of **Sewer Service:** Tap diameter _____ Length _____ Feet

Requested size of **Storm Service:** Tap diameter _____ Length _____ Feet

Storm Water Detention System (circle) yes no Vortex Restrictor (circle) yes no

Requested size of **Water tap/Service** _____ Fire Service (circle) Yes No (Yes see Attachment A)
New Single Family Residential Construction requires a minimum 2" water service.

What size is the Domestic line _____ Estimated maximum domestic Flow _____ GPM

Is a **water meter** desired? (circle) Yes - No Water Meter Size Requested: _____

Work Start Date: _____

<i>To be completed by Water/Plumbing Department</i>	
Approved Tap Size _____	Approved Sewer Tap Size _____
Domestic Meter _____	Fire Line Meter _____
Vortex Restrictor _____	Labor _____
Storm water detention _____	Total Cost _____
Disconnects: Water _____	Sewer _____
Approved Signatures _____	_____
<i>Plumbing Inspector</i>	<i>Water Department</i>

**Page 2 of Worksheet for
Water & Sewer Services**

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Job Address: _____

Owner: _____

Phone No.: _____

Address: _____

Plumbing Contractor: _____

Phone No.: _____

Address: _____

Scope of Work (be specific):

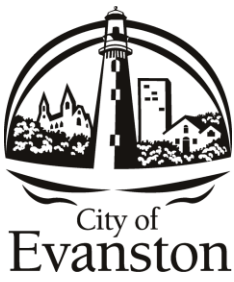
Contract Price: \$ _____

I HEREBY CERIFY THAT THE ABOVE LISTED WORK WILL BE DONE BY MY COMPANY, ANY ADDITIONAL
WQRK WILL REQUIRE ADDITIONAL PERMIT FEES,
AND ALL WORK IS TO BE INSPECTED.

X _____ X _____
Signature of Supervising Plumber State License # or Drain Layer #

Water Service Drawing Requirements Single Family Residential New and Upgrade

1. This drawing does not have to be drawn to scale.
2. The drawing must show the following items.
 - a. The house
 - b. Location of existing water & sewer
 - c. Location of new water & sewer
 - d. The separation between the new water and sewer (must be minimum of ten feet).
 - e. Any trees on the parkway (must be a minimum of ten feet).
3. If a corner house, you must show which street you are coming off.
 - a. Indicate front of the house.



Water Service Size Calculation Worksheet

Property Address: _____

Property Owner Name: _____

Permit Application No: _____

Type of Occupancy: Single Family Multifamily Commercial

Applicant Name: _____

Applicant Address: _____

Applicant Phone: _____ Fax: _____

Please complete the table below, and return the completed form to the Building and Inspection Services Division as a part of your permit submittal.

Fixture Type	Total Number of Fixtures (New + Existing)	x	Unit Load Value	=	Water Supply Fixture Units (W.S.F.U.)
Water Closets			3.0		
Lavatories			1.0		
Bathtubs/Showers			2.0		
Kitchen Sink			2.0		
Dishwasher			1.0		
Laundry Sink			3.0		
Laundry Machine			2.0		
TOTAL					
Existing Water Service Pipe Size*: _____ inches					
Required Water Service Pipe Size (see reverse side): _____ inches					

For New Residential Construction with fire suppression system, a minimum 2” water service line will be required.

If your existing water service size is less than the required size, your water service will need to be upgraded as a part of your proposed project scope.

*If unsure about the size of an existing water service, please contact the Water and Sewer Division of Public Works at 847-448-4311

Property Owner's Signature: _____ Date: _____

Section 890.Appendix A **PLUMBING MATERIALS, EQUIPMENT, USE
RESTRICTIONS AND APPLICABLE STANDARDS**

**TABLE N Water Supply Fixture Units (W.S.F.U.) for a Supply System
With Flush Tanks**

**Water Supply Fixture Units (W.S.F.U.) for a
Supply System with Flush Tanks**

W.S.F.U.	Demand (GPM)	Pipe Size (Inches)	Pressure Loss PSI/100' of Pipe)	Velocity (Ft./Sec.)
2	2	1/2"	4.2	2.7
4	3	1/2"	8.7	4.2
6	5	1/2"	22.5	7.0
8	6.5	3/4"	6.3	4.3
10	8	3/4"	9.0	5.4
12	9.2	3/4"	11.5	6.1
14	10.4	3/4"	15.0	6.9
16	11.6	3/4"	18.0	7.7
20	14	1"	7.2	5.6
25	17	1"	10.0	6.6
30	20	1"	13.6	8.0
35	22.5	1 1/4"	5.8	5.7
40	25	1 1/4"	7.0	6.3
45	27	1 1/4"	8.2	6.9
50	29	1 1/4"	9.5	7.4
60	32	1 1/2"	5.0	5.8
70	35	1 1/2"	6.2	6.4
80	38	1 1/2"	7.0	7.2
90	41	1 1/2"	8.0	7.5
100	43.5	1 1/2"	8.7	7.8
120	48	2"	2.7	5.0
140	52.5	2"	3.1	5.4
160	57	2"	3.6	5.8
180	61	2"	3.9	6.1
200	65	2"	4.5	6.6
225	70	2"	5.2	7.1
250	75	2"	6.0	7.7
275	80	2 1/2"	2.6	5.5
300	85	2 1/2"	2.9	5.8
350	95	2 1/2"	3.5	6.5
400	105	2 1/2"	4.2	7.1
450	115	2 1/2"	5.0	8.0
500	125	3"	2.3	5.9
600	145	3"	3.1	6.8