Size and capacity of potable water system pipe shall be designed in accordance with 7.6.3.1.of Division B, of the Ontario Building Code (OBC). Where both hot and cold water is supplied to fixtures in residential buildings containing one or two dwelling units, the water system may be sized with tables in Part 1 and Part 2 of this form, provided, the minimum water pressure at the entry to the building is not 200 kPa, the total maximum length of the water system is 90 m, and the hydraulic loads for maximum separate demands on water distribution system piping are not less than 100% of the total hydraulic load of the fixture units given in OBC Division B, Tables 7.6.3.2.A., 7.6.3.2.B., 7.6.3.2.C., and 7.6.3.2.D. for private use.

Address: Springvalley Crescent		Unit (112)			Date: 2021-09-27		
Part 1 -	Hydraulic Load, Fixture U	nit Calculation					
nodification of	OBC, Table 7.6.3.2.A.)						
Item	Fixture or Do	evice	Minimum Size of Supply Pipe, (inches)	Private Use Hydraulic Loac (Fixture units)		Total Hydraulic Load (Fixture units x Quantity)	
1	Bathroom group* with 6 LPF	flush tank	N/A	3.6		/ <i>(</i>) · 8	
2	Bathroom group* with greater than 6 LPF flush		N/A	6			
3	Bathtub with or without shower head		1/2	1.4			
4	Clothes washer		1/2	1.4	1	1.4	
5	Dishwasher, domestic		3/8	1.4	1	1.4	
6	Hose bibb (1/2")		1/2	2.5	11	5	
7	Lavatory		3/8	0.7	11	1.4	
8	Shower head		1/2	1.4			
9	Shower, spray, multi-head, fi	xture unit per head	**	1.4			
	Sink, bar		3/8	1			
11	Sink, kitchen, domestic		3/8	1.4	/	1.4	
12	Sink, laundry (1 or 2 compar	tments)	3/8	1.4		1.4	
13	Water closet, 6 LPF or less w	ith flush tank	3/8	2.2		2.2	
14	Other:						
Total Hy	draulic Load:					2.5	
ize bath						one water closet and either one ½ inc d the additional fixture to the	
* Refer	to manufacturer's recommer	dations.					
Part 2 -	Sizing of Water Service Pi	ре					
nodification of	OBC, Table 7.6.3.4.)	-					
				Water Vel	locity, m/s		
Ite	m Size of Water Pipe			pper piping, cold water)		Other Pipe Material*, specify:	
				Hydraulic Load,	, (Fixture Units)		
1	=/ =		Up to 7				
2	-7 :		71-16				
3			16.1 - 31				
4 1-1/4"		31.1 - 57					

with maximum hydraulic loads for each water pipe size as recommended by the pipe and fitting manufacturer

Fait 3 - Design of Water Service ripe	
Total Hydraulic Load (fixture units):	Water Meter Size
Water Service Pipe size (inches):	3/4 Water Service Pipe = 5/8" (16 mm) Water Meter 1" Water Service Pipe = 3/4" (20 mm) Water Meter 1-1/4" Water Service Pipe = 1" (25 mm) Water Meter
Designer Information	8.1
Virtual Creations Inc	OSS44

* If a water velocity of other than 2.4 m/s is proposed (i.e. other than copper piping), provide documentation showing maximum permitted water velocity

Size and capacity of potable water system pipe shall be designed in accordance with 7.6.3.1.of Division B, of the Ontario Building Code (OBC). Where both hot and cold water is supplied to fixtures in residential buildings containing one or two dwelling units, the water system may be sized with tables in Part 1 and Part 2 of this form, provided, the minimum water pressure at the entry to the building is not 200 kPa, the total maximum length of the water system is 90 m, and the hydraulic loads for maximum separate demands on water distribution system piping are not less than 100% of the total hydraulic load of the fixture units given in OBC Division B, Tables 7.6.3.2.A., 7.6.3.2.B., 7.6.3.2.C., and 7.6.3.2.D. for private use.

Address		Construence Have Construe		Linit (11.4)		Date: 2021 00 27	
	Springva	lley Crescent	Unit (114)			2021-09-27	
Part 1	- Hydraulic Load, Fixtu	re Unit Calculation					
modification o	of OBC, Table 7.6.3.2.A.)						
Item	Fixture	or Device	Minimum Size of Supply Pipe, (inches)	Private Use Hydraulic Load, (Fixture units)	Quantity	Total Hydraulic Load (Fixture units x Quantity)	
1	Bathroom group* with 6 LPF flush tank		N/A	3.6	1 ///	10.8	
2	Bathroom group* with g	reater than 6 LPF flush	N/A	6			
3	Bathtub with or without	shower head	1/2	1.4			
4	Clothes washer		1/2	1.4	1	1.4	
5	Dishwasher, domestic		3/8	1.4		1.4	
6	Hose bibb (1/2")		1/2	2.5		5	
7	Lavatory		3/8	0.7	111	1.4	
8	Shower head		1/2	1.4			
9	Shower, spray, multi-hea	ad, fixture unit per head	**	1.4			
10	Sink, bar		3/8	1			
11	Sink, kitchen, domestic		3/8	1.4		1.4	
12	Sink, laundry (1 or 2 cor	mpartments)	3/8	1.4		1.4	
13	Water closet, 6 LPF or le	ess with flush tank	3/8	2.2		2.2	
14	Other:						
Total H	ydraulic Load:					25	
size bat		o of plumbing fixtures instal nower, or one ½ inch size o				e water closet and either one ½ inch he additional fixture to the	
** Refe	r to manufacturer's recom	nmendations.					
Part 2	- Sizing of Water Service	ce Pipe					
	of OBC, Table 7.6.3.4.)						
				Water Velocit	zy, m/s		
Ite	em Size of Water Pipe	2.4 (co	2.4 (copper piping, cold water)		Other Pipe Material*, specify:		
				Hydraulic Load, (Fi	xture Units)		
	1/2"		Up to 7				
	3/4"		71-16				
	3 1"		16.1 - 31				
-	1-1/4"		31.1 - 57				

* If a water velocity of other than 2.4 m/s is proposed (i.e. other than copper piping), provide documentation showing maximum permitted water velocity with maximum hydraulic loads for each water pipe size as recommended by the pipe and fitting manufacturer

Part 3 - Design of Water Service Pipe

· ····································	
Total Hydraulic Load (fixture units):	Water Meter Size
Water Service Pipe size (inches):	3/4 Water Service Pipe = 5/8" (16 mm) Water Meter 1" Water Service Pipe = 3/4" (20 mm) Water Meter 1-1/4" Water Service Pipe = 1" (25 mm) Water Meter
Designer Information	
Virtual Creations Inc	28844 Signature

Size and capacity of potable water system pipe shall be designed in accordance with 7.6.3.1.of Division B, of the Ontario Building Code (OBC). Where both hot and cold water is supplied to fixtures in residential buildings containing one or two dwelling units, the water system may be sized with tables in Part 1 and Part 2 of this form, provided, the minimum water pressure at the entry to the building is not 200 kPa, the total maximum length of the water system is 90 m, and the hydraulic loads for maximum separate demands on water distribution system piping are not less than 100% of the total hydraulic load of the fixture units given in OBC Division B, Tables 7.6.3.2.A., 7.6.3.2.B., 7.6.3.2.C., and 7.6.3.2.D. for private use.

Address: Springvalley Crescent		Unit (116)		Date:	Date: 2021-09-27	
Part 1	- Hydraulic Load, Fixture	Unit Calculation				
modification o	f OBC, Table 7.6.3.2.A.)					
Item	Fixture o	⁻ Device	Minimum Size of Supply Pipe, (inches)	Private Use Hydraulic Load, (Fixture units)	Quantity	Total Hydraulic Load (Fixture units x Quantity)
1	Bathroom group* with 6 L	PF flush tank	N/A	3.6	///	10.8
2	Bathroom group* with gre	eater than 6 LPF flush	N/A	6		
3	Bathtub with or without sl	nower head	1/2	1.4		
4	Clothes washer		1/2	1.4		1.4
5	Dishwasher, domestic		3/8	1.4		1.4
6	Hose bibb (1/2")		1/2	2.5	//	5
7	Lavatory		3/8	0.7	11	1.4
8	Shower head		1/2	1.4		
9	Shower, spray, multi-head	l, fixture unit per head	**	1.4		
10	Sink, bar		3/8	1		
11	Sink, kitchen, domestic		3/8	1.4		1.4
12	Sink, laundry (1 or 2 comp	,	3/8	1.4		1.4
13	Water closet, 6 LPF or les	s with flush tank	3/8	2.2		2.2
14	Other:					
Total H	ydraulic Load:					2.5
size bath appropri		wer, or one ½ inch size o				e water closet and either one \mathcal{V}_2 incr he additional fixture to the
Part 2	- Sizing of Water Service	Pipe				
modification o	f OBC, Table 7.6.3.4.)					
				Water Velocity	, m/s	
Ite	Size of Water Pipe	2.4 (сор	oper piping, cold wat		r Pipe Material*, spec	ify:
				Hydraulic Load, (Fixt	ure Units)	

* If a water velocity of other than 2.4 m/s is proposed (i.e. other than copper piping), provide documentation showing maximum permitted water velocity with maximum hydraulic loads for each water pipe size as recommended by the pipe and fitting manufacturer

Up to 7

71 - 16

16.1 - 31 31.1 - 57

1/2'

3/4'

1"

Part 3 - Design of Water Service Pipe	
Total Hydraulic Load (fixture units):	Water Meter Size
Water Service Pipe size (inches):	3/4 Water Service Pipe = 5/8" (16 mm) Water Meter 1" Water Service Pipe = 3/4" (20 nm) Water Meter 1-1/4" Water Service Pipe = 1" (25 mm) Water Meter
Designer Information	
Virtual Creations Inc	28844 Squature

Size and capacity of potable water system pipe shall be designed in accordance with 7.6.3.1.of Division B, of the Ontario Building Code (OBC). Where both hot and cold water is supplied to fixtures in residential buildings containing one or two dwelling units, the water system may be sized with tables in Part 1 and Part 2 of this form, provided, the minimum water pressure at the entry to the building is not 200 kPa, the total maximum length of the water system is 90 m, and the hydraulic loads for maximum separate demands on water distribution system piping are not less than 100% of the total hydraulic load of the fixture units given in OBC Division B, Tables 7.6.3.2.A., 7.6.3.2.B., 7.6.3.2.C., and 7.6.3.2.D. for private use.

Address: Springvalley Crescent		Unit (118)			Date: 2021-09-27	
				<u>'</u>		
Part 1	- Hydraulic Load, Fixture Unit Calculation					
modification o	of OBC, Table 7.6.3.2.A.)					
Item	Fixture or Device	Minimum Size of Supply Pipe, (inches)	Private Use Hydraulic Load (Fixture units)	,	Total Hydraulic Load (Fixture units x Quantity)	
1	Bathroom group* with 6 LPF flush tank	N/A	3.6		/ 🛇 · 8	
2	Bathroom group* with greater than 6 LPF flush	N/A	6			
3	Bathtub with or without shower head	1/2	1.4			
4	Clothes washer	1/2	1.4		1.4	
5	Dishwasher, domestic	3/8	1.4		1.4	
6	Hose bibb (1/2")	1/2	2.5		5	
7	Lavatory	3/8	0.7		/. ㄣ	
8	Shower head	1/2	1.4			
9	Shower, spray, multi-head, fixture unit per head	**	1.4			
10	Sink, bar	3/8	1			
11	Sink, kitchen, domestic	3/8	1.4		1.4	
12	Sink, laundry (1 or 2 compartments)	3/8	1.4		1.4	
13	Water closet, 6 LPF or less with flush tank	3/8	2.2		2.2	
14	Other:					
	ydraulic Load:				25	
size bat	noom group means a group of plumbing fixtures install thtub, with or without a shower, or one ½ inch size of iate fixture count. The recommendations.					
	- Sizing of Water Service Pipe					
Part 2						
Part 2	- Sizing of Water Service Pipe		Water Vel	ocity, m/s		
Part 2	- Sizing of Water Service Pipe of OBC, Table 7.6.3.4.) Size of	pper piping, cold wat		ocity, m/s Other Pipe Material*, spec	ify:	
Part 2	- Sizing of Water Service Pipe of OBC, Table 7.6.3.4.) Size of	pper piping, cold wat	er)	Other Pipe Material*, spec	ify:	
Part 2	- Sizing of Water Service Pipe of OBC, Table 7.6.3.4.) Size of Water Pipe 2.4 (cop	oper piping, cold wate		Other Pipe Material*, spec	ify:	
Part 2	Size of Water Pipe Size of Water Pipe 2.4 (cop	Up to 7	er)	Other Pipe Material*, spec	ify:	
Part 2	Size of Water Pipe Size of Water Pipe 2.4 (cop 1/2" 2 3/4"		er)	Other Pipe Material*, spec	ify:	

Part 3 - Design of Water Service Pipe

Water Service Pipe size (inches):

Total Hydraulic Load (fixture units):

with maximum hydraulic loads for each water pipe size as recommended by the pipe and fitting manufacturer

Water Meter Size

3/4 Water Service Pipe = 5/8" (16 mm) Water Meter 1" Water Service Pipe = 3/4" (20 mm) Water Meter 1-1/4" Water Service Pipe = 1" (25 mm) Water Meter

Designer Information

Virtual Creations Inc

28844