# \* CITY OF MERCER ISLAND

### **COMMUNITY PLANNING & DEVELOPMENT**

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | www.mercergov.org



FEMINIT AFFEICATION						
A	SITE ADDRESS* 7709 W. MERI		L	1,000 PERMIT#		
·	PROPERTY OWNER* SHAVE MILLER	77	og W. WERCER	PHONE/OFFICE* 206910 844. E-MAIL* SHANEMILLERUS (2)6M		
P	APPLICANT CONTACT NAME*  SHAVE MILLER	ADDRESS	09 W, MERCER	CELL/OFFICE* 206 91084 3 (C)		
L	ARCHITECT / DESIGNER (Company/Name)	ADDRESS	<b>.</b>	CELL/OFFICE COM		
1	STRUCTURAL ENGINEER (Company/Name) COBACT GEOSCIENCE PHIL HABERMAN	ADDRESS	3	CELL/OFFICE E-MAIL*		
C	CONTRACTOR(Company/name)	ADDRESS		CELL/OFFICE		
	STATE CONTRACTOR LICENSE*#		MI BUSINESS LICE	EMAIL*		
A N	ELECTRICAL CONTRACTOR (Company/Name)	ADDRESS .		CELL/OFFICE EMAIL*		
	STATE CONTRACTOR LICENSE #	STATE CONTRACTOR LICENSE # MI BUSINESS LICENSE #				
T	*REQUIRED					
	PERMIT Demolition Grading Fire Protection Plumbing Demolition Grading Fuel Tank TYPE Electrical Mechanical Stormwater Low Voltage Site Development			ngle Family Ulti-Family Ulti-Family Ummercial  xed Use urch/School  Addition ☐ Alteration ☐ New ☐ Repair /		
	your project result in:		WORK DESCRIPTION:	AN EXICTIAL PETALLE		
	nange of use		MAINTAIN	AN EXISTING RETAINING TES FOUR FEET TALL		
	w Single Family dwelling		<del></del>	WITHIN TWENTY FEET		
	eduction in any existing side yard setback	Yes 🔲 N	SHORELINE			
	increase in impervious surface by more than square feet	Yes 🔲 1	No. 🔟			
500	increase in the gross floor area of more than square feet	Yes 🔲 🛚 I	No 🗹	•		
	increase in the maximum building height above highest point of the building	geren atamira kawa alikuwa	No.[			
NOTICE TO APPLICANT						
This permit becomes null and void if the work or construction authorized is not commenced within two years, or if work or construction is suspended or abandoned for two years at any time after work is commenced or if work is not completed within two years from date of issue. Electrical, mechanical and plumbing permits shall expire at the same time as the associated building permit except that if no associated building permit is issued, the electrical, mechanical and/or plumbing permit shall expire 180 days from issuance. All work shall be done in accordance with the approved plans, except where such approval is in conflict with other codes. The approved plans shall not be changed or modified without the prior approval of the Building Official. It is the responsibility of the permittee to obtain the required inspections. Failure to notify this department that work is ready for inspection may necessitate the removal of some of the construction materials at the owner's expense in order to perform such inspections.						
w	I hereby certify that I am the owner of the subject property or I have been authorized by the owner(s) of the subject property to represent this application, and that I have read and examined this application and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will be met whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction of the performance of construction.					
		and the same		MILLER		
	nature of Owner/Contractor/Authorized Agent	Date		ner/Contractor/Authorized Agent		
S:\D	SG\FORMS\2018Forms\Permit Applications\Bldg	PermitAnn	Blda2018	01/2018		

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PHONE: 206.275.7605 | www.mercergov.org

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Inspection Requests: Online: www.mybuildingpermit.com VM: 206.275.7730



Residential Water Meter Sizing Worksheet							
Owner's Name:					Main Permit #		
Site Address:				Water Permit #			
<ul> <li>От терей и в полительной подательной под</li></ul>	All and production of the control of	Number of Fi	ixtures •	CONTRACTOR TO CONTRACTOR CONTRA	ramente estremente de manere gramente amontant formación e g	We assume a transmission of $\bullet$ and $\bullet$ as a particular solution of $\bullet$ and $\bullet$ and $\bullet$ and $\bullet$ are the solution of $\bullet$ are the solution of $\bullet$ and $\bullet$ are t	
Fixture Type	(For replacemen	uning berenda karang arang ang ang ang ang ang ang ang ang ang	Existing	Total Fixtures	Fixture Units	Total Units	
Bathtub or Combination Bath/Shower			Antenna management de la company		x 4		
3/4" Bathtub Fill Valve (Soaker Tubs)	Consult with Kinet Salet Late City and 16 days have had a classification of contact and				x 10		
Shower (per head)		ntana kantagan kantanagan kannan kaganganan dipunyan bermada melangsah	Annual mannual strate south		x 2	=	
Sink ————————————————————————————————————	Sammer of the market measurement of the same of the sa	chape radial lumber of the chape dependence of the chaptable to seal subsequence.	a transmission contraction of the company of the contraction of the co	Zamanamana zama	x 1		
Toilet	I marine de la companya della companya della companya de la companya de la companya della compan	and and consider expected and angent of the constraint of the cons			x 2.5	=	
Bidet				500 ALEMAN AND AND AND AND AND AND AND AND AND A	x 1	=	
Kitchen Sink		Military and the second	/	And have enthanced an array	x 1.5	=	
Dishwasher	***************************************	30 300 ang resident pagang ang resident and	1	220000000000000000000000000000000000000	x 1.5		
Bar Sinks & Ice Makers	1	A STATE OF THE PARTY OF THE PAR	Participation and the second	CONTRACTOR AND AND ADDRESS OF THE AD	x 1	=	
Clothes Washer		No. of the last of		CONTRACTOR OF THE PROPERTY OF	x 4	]=	
Laundry Sink		No. of Contrast of			x 1.5	=	
Drinking Fountain	A CONTROL OF THE PROPERTY OF T	energe en planta proportion de la constanta de	Column 4.5 to 6. Transportation of Co., Sport, Michael of Column Column 1.5 to 6. Transportation of Co., Sport, Michael of Column Column 1.5 to 6. Transportation of Co., Sport, Michael of Column Column 1.5 to 6. Transportation of Co., Sport, Michael of Column Column 1.5 to 6. Transportation of Co., Sport, Michael of Column Column 1.5 to 6. Transportation of Co., Sport, Michael of Column Column 1.5 to 6. Transportation of Co., Sport, Michael of Co., Co., Co., Co., Co., Co., Co., Co.,		x 0.5	=	
Hose Bibs (first)	/	ATTENNESS AND ASSESSED ASSESSED.	A TOTAL PROPERTY OF THE PROPER	TO PRINCE AND SHARE THE PRINCE	x 2.5	=	
Each additional					x 1	=	
Lawn Sprinkler Irrigation/per head		N.		A. Land Bell Control of Control	x 1	=	
Other:		- OCT BOOK OF THE STATE OF THE		20 CALIFORNIA (ALTHOUS CONTROL SOUNDS CONTROL	X	Control to the state of the control	
		Activities and the second seco	The second secon	TO	TAL UNITS		
For Official Use Only							
	REQUIRED S	SERVICE SIZE	Ass. Seculation Act	A STATE OF THE PROPERTY OF	terbere (Prortyse et so.		
Requirements are I			ipter 6, Ta	able 610.4			
Existing Meter Size:		Meter Number:					
Upsize: ☐ Yes ☐ No If yes the code	requires:	□ 5/8" □ ¾" □ 1" □ 1½" □ 2" □ Larger:					
Map Page & Hydrant #:		Required Supply Line Size:					
Distance from meter to farthest	Required Service Line Size:						
Fixture outlet (in feet):	(from water main to meter)						
Known Static Pressure: (Otherwise use 65lb/in)	*REQUIRED METER SIZE:						
Height difference (in feet):	** Pressure Reducing valve required: \( \sqrt{\chi}\)\(\text{tes}\)\( \sqrt{\text{No}}\)						
Minus if Building Higher – x .5							
Building Design P.S.I.							

<sup>\*</sup>Meter installation **DEPOSIT** for these items. Additional charges may be incurred for time and materials

<sup>\*\*</sup>Pressure Reducing valve is required if the known water pressure is in excess of 80 psi.

#### CITY OF MERCER ISLAND

Fire Marshal's Office

3030 78<sup>th</sup> Ave SE | MERCER ISLAND, WA 98040

PHONE: 206.275.7966 | www.mercergov.org



## 2019 RESIDENTIAL FIRE AREA SQUARE FOOTAGE CALCULATION

Project Type:	New Single Family Alterat	ion Addition	-
Project Address:			,
Contact Name:		Phone No. /	
Owner Name:	· · ·		The state of the s

Gross floor area shall be that area in square feet under the roof line of the structure including all usable area whether heated or not, above and below grade. This includes the garage and any unheated storage rooms or attachments including covered decks. If it is usable space, then it is included in the Gross square footage calculation. This is not the same calculation for floor area ratio.

For all construction types, add all the interior wall measurements of each floor and the basement and total that figure.

**NEW CONSTRUCTION** (over for addition or alteration)

Measurements	Square\Footage
Main Floor interior	
Lower Floor Interior	
Other Floors interior	
Basement interior	
Attached Garage interior	
Covered Decks interior	
Other interior	
TOTALS	

#### ADDITION or ALTERATION

Does this house have an existing Fire Sprinkler System? Yes No / Fire Alarm System Yes No						
Measurements Existing Square		Standardized	Final			
	Footage	Value	Square Footage			
Main Floor interior		x \$177.76 =				
Lower Floor Interior		x \$177.76 =				
Other Floors interior		×\$177.76 =				
Basement interior		x \$177.76 =				
Attached Garage interior		x\$ 36.88 =				
Covered Decks interior	ente sufficiel de la company de la compa	x\$ 36.88 =				
Other interior		x \$177.76 =				
TOTALS						
Construction Cost \$						
Exempt structure - detached garage or similar structure less than 750 sf.						
Less than 10% (fire review not required)						
10 – 49% (monitored Household Fire Alarm System per NFPA 72 Chapter 29, if fire deficiency)						
50% or greater (substantial alteration)						
States and the contraction of the states and the contraction of the co						

#### 2015 INT'L FIRE CODE

901.4.4 Additional Fire Protection Systems. In occupancies of a hazardous nature, where special hazards exist in addition to the normal hazards of the occupancy, or where the fire code official determines that access for fire apparatus is unduly difficult, the fire code official shall have the authority to require additional safeguards. Such safeguards include, but shall not be limited to, the following:

- Automatic fire detection systems,
- Fire alarm systems,
- Automatic fire-extinguishing systems,
- Standpipe systems, or
- Portable or fixed extinguishers.

Fire protection equipment required under this section shall be installed in

accordance with this code and the applicable referenced standards.

#### 2015 INT'L RESIDENTIAL CODE

AV107.1 Fire Sprinklers. An approved automatic fire sprinkler system shall be installed in new one-family and two-family dwellings and townhouses in accordance with Appendix Q.

AV107.2 Fire Sprinklers in Existing Buildings. An approved automatic fire sprinkler system shall be installed throughout the residence in existing one-family and two-family dwellings (and townhouses) in accordance with Appendix Q when undergoing a remodel or addition when the construction value of all additions, alterations or repairs performed within

a sixty-month period exceeds 50% of the value of the residence. Value shall be determined by a method approved by the fire code official.

AV107.3 Household Fire Alarm System. An approved household fire alarm system shall be installed throughout the residence in existing one-family and two-family dwellings townhouses) that have deficiencies in fire flow, hydrants or access. This system shall be installed in accordance with NFPA 72 Chapter 29 when undergoing a remodel or addition when the construction value of all additions, alterations or repairs performed within a sixty-month period is within 10% to 50% of the value of the residence. Value shall be determined by a method approved by the fire code official.

Exhibit 21 - Page 7 of 8

Project Information	ksneet 2015 wasnington Sta		oue  ntact Information		
					-/
				Adella Ziriania (j. 1885.) Romania del regionale del Romania del regionale del r	
	State Energy Code requirement odels) do not need to obtain				
altered to become	eet the requirements for new conditioned space.	onstruction	This include	es nonconditioned sp	ace being
Will the wall cavi	ties be exposed?	s II N	10		
If yes:	Exposed wall cavities must b 2 X 4 wall studs red 2 X 6 wall studs red	quire <b>R-15</b> in	sulation		
Will the roof/ceili	ng framing cavities or attic l	be exposed	? //Y	∕es □ No	
If yes:	If yes: Exposed roof/ceiling assemblies must be insulated - Vaulted ceilings: Insulate to the full depth of the framing member while allowing for the minimum 1" ventilated space				
				what the attic space the roof pitch	can
Will the floor fran	ning cavities be exposed?		Ţ Yes	□No	
If yes:	Exposed floor cavities must be	be insulated	to R-30		
in the case of the second control of	and/or doors being replaced both window or door and frames) New windows and doors mus		Yes ea weighted	□ No average U-factor of	≤0.30
Will the heating of	or cooling system be replace	ed?	Yes	No	
If yes:	New equipment mu ducts need to be te		rent requirer	nents and	
Will the hot wate	r system be altered?	□ Yes	ΓN		
If yes:	New water heating	equipment r	nust meet cu	ırrent code requirem	ents
Are more than 50	0% of the light fixtures being	changed?	ΓY	es □ No\	
If yes:	75% of all lamps m (LED or C	in a first E. E.	efficacy		

## Exhibit 21 - Page 8 of 8

R503.1.1 Building envelope. Building envelope assemblies that are part of the alteration shall comply with Section R402.1.1 or R402.1.4, Sections R402.2.1 through R402.2.11, R402.3.1, R402.3.2, R402.4.3 and R402.4.4.

Exception: The following alterations need not comply with the requirements for new construction provided the energy use of the building is not increased:

- 1. Storm windows installed over existing fenestration.
- 2. Existing ceiling, wall or floor cavities exposed during construction provided that these cavities are filled with insulation. 2x4 framed walls shall be insulated to a minimum of R-15 and 2x6 framed walls shall be insulated to a minimum of R-21.
- 3. Construction where the existing roof, wall or floor cavity is not exposed.
- 4. Roof recover.
- 5. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.
- 6. Surface-applied window film installed on existing single pane fenestration assemblies to reduce solar heat gain provided the code does not require the glazing fenestration to be replaced.
- R503.1.1.1 Replacement fenestration. Where some or all of an existing fenestration unit is replaced with a new fenestration product, including sash and glazing, the replacement fenestration unit shall meet the applicable requirements for U-factor and SHGC in Table R402.1.1.
- R502.1.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the addition shall comply with Sections R403.1, R403.2, R403.3, R403.5 and R403.6.

Exception: The following need not comply with the testing requirements of Section R403.3.3:

- 1. Additions of less than 750 square feet.
- 2. Duct systems that are documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in WSU RS-33.
- 3. Ducts with less than 40 linear feet in unconditioned spaces.
- 4. Existing duct systems constructed, insulated or sealed with asbestos.
- R503.1.3 Service hot water systems. New service hot water systems that are part of the alteration shall comply with Section R403.4.
- R503.1.4 Lighting. New lighting systems that are part of the alteration shall comply with Section R404.1.

**Exception:** Alterations that replace less than 50 percent of the luminaires in a space, provided that such alterations do not increase the installed interior lighting power.

R503.2 Change in space conditioning. Any nonconditioned or low-energy space that is altered to become conditioned space shall be required to be brought into full compliance with this code.