CITY OF MERCER ISLAND

COMMUNITY PLANNING & DEVELOPMENT

9611 SE 36TH STREET | MERCER ISLAND, WA 98040 PHONE: 206.275.7605 | <u>www.mercerisland.gov</u>

INTAKE SCREENING REQUEST FORM

TO INITIATE	AN INTAKE SCREENING						
Step One: Step Two:	 Transfer Site. Detailed instructions for the upload are available on the next page. Upon Receipt of the Submittal Documents, City Staff will schedule the Screening and Request the Intake Screening deposit of \$726.00, via email. The deposit covers 5 hours of staff time, if additional time is required more fees will be requested. If less than 5 hours of 						
	staff time are used on your Screening, you will be issued a refund	for the remaining deposit.					
PROJECT IN	FORMATION						
Name of Ov	vner Owner Address						
Owner Ema	il Owner Phone						
Project Add	ress Parcel #	_					
Project Des	cription						
Will you be	expanding the building footprint by 500 square feet or more? YES	S□sq. ft NO□					
Will there b	Will there be a net increase of the impervious surface by 500 square feet or more? YES \Box NO \Box						
Will you be	Will you be altering within a critical area or buffer? YES IND I						
Will you be	Will you be modifying more than 40% of the existing exterior wall? YES \Box NO \Box						
Are you app	lying concurrently for a Land Use action?	YES 🗌 🛛 NO 🗆					
If so what is	your project #(s) and type(s)?						
PROJECT CC	NTACT						
Name	Phone						
Email							
	Please note that there are no longer in person Intake scre	enings					
SIGNATURE	SIGNATURE OF OWNER OR REPRESENTATIVE						

FOR CITY USE ONLY				
FEE PAID \$	DATE PAID PERMIT #			
WEEK OF SCHEDULED SCREENING				



INTAKE SCREENING INFORMATION

WHAT IS AN INTAKE SCREENING?

An Intake Screening is a completeness check for Building and Site Development permit applications. Applications are screened by a Land Use Planner, a Development Engineer (civil), the City Arborist, a Building Plans Examiner, and the Fire Marshal. It is an opportunity to find out if there is anything significant missing from your submittal and to identify issues that may cause a delay in the processing of the application. All Intake Screenings are now conducted electronically. (Ref. MICC 19.09.010)

DO I NEED AN INTAKE SCREENING?

City Staff conduct intake screenings for the following types of projects:

- A. New Single-Family Residences or Demo/Rebuilds
- B. Substantial Residential Addition/Remodel Projects: Projects that net ≥ 500 square feet of additional impervious surface; Projects that result in ≥ 500 square feet additional footprint; Projects that alter more than 40% of the existing exterior wall; Upper level addition projects with a valuation greater than \$100,000
- C. Projects that require stormwater improvements: Projects that net ≥ 500 square feet additional impervious surface Projects with a land disturbing activity of 7,000 sq. ft or greater Projects that result in ≥ 2,000 sq. ft of new plus replaced hard surface area
- **D.** Projects that alter a critical area or critical area buffer such as: A steep slope, wetland, or watercourse.
- E. New Commercial Buildings and Large Commercial Tenant Improvements
- F. Site Development/Plat Improvement Permits

WHAT IS THE SCREENING PROCESS?

- 1. Applicant initiates the Intake Screening by submitting Intake Screening Request Form, paying the fee, then uploading all required submittal documents to the Mercer Island File Transfer Site.
- 2. City Staff review the electronic submittal for completeness. Each of the five review disciplines will determine if enough information has been provided to complete the first plan review.
- 3. An Intake Screening Packet with the screening results is provided to the applicant via email. If the application is incomplete, the Intake Packet will detail the information required to complete the submittal.

SUBMITTAL INSTRUCTIONS

- A. Review Submittal requirements on the City website. Prepare your plans, forms, and documents
- B. Please upload to the File Transfer Site <u>https://sftp.mercergov.org</u> (user name: guest, password: eplan)
- C. Click on the inbox to open
- D. Create a new folder (use your permit number or project address as the folder name)
- E. Click on your new folder to open
- F. Upload the files into the new folder

NEED A PRE-APPLICATION MEETING WITH CITY STAFF?

Applicants are encouraged to set up a Pre-Application Meeting prior to their Intake Screening. This is an opportunity to meet with staff in-person to discuss your project. Understanding the City's residential development standards, stormwater, tree protection, and fire access requirements early on can avoid costly re-design delays later in the project. For more information see our <u>Pre-Application Meeting Request Form</u>.

Please note that there are no longer in person Intake screenings

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PERMIT APPLICATION

Α	SITE ADDRESS*	PROJECT VA	LUATION (REQUIF	RED)*	PERMIT #		
					DUDDUE		
Ρ	PROPERTY OWNER: *	ADDRESS*			PHONE		
	TENANT NAME: APPLICANT CONTACT NAME*				E-MAIL*		
Ρ		ADDRESS			PHONE E-MAIL*		
	ARCHITECT / DESIGNER (Company/Name)						
L	ARCHITECT / DESIGNER (Company/Name)	ADDRESS			PHONE E-MAIL*		
	STRUCTURAL ENGINEER (Company/Name)	ADDRESS			PHONE		
I		ADDRESS			E-MAIL*		
~	CONTRACTOR(Company/Name)	ADDRESS			PHONE		
С	CONTRACTOR(Company/Name)	ADDRESS			E-MAIL*		
	STATE CONTRACTOR LICENSE #*:		MI BUSIN	IESS LICENSE #*:			
Α	ELECTRICAL CONTRACTOR (Company/Name)	ADDRESS			PHONE		
N					E-MAIL*		
IN	STATE CONTRACTOR LICENSE #*:		MI BUSIN	IESS LICENSE #*:			
т	PLUMBING CONTRACTOR (Company/Name)	ADDRESS			PHONE		
					E-MAIL*		
	STATE CONTRACTOR LICENSE #*: *Required		MI BUSIN	IESS LICENSE #*:			
	PERMIT Building Low Vo	oltage	OCCUPANCY		MILY	WORK	
	TYPE Demolition Demolition		ТҮРЕ	☐ MULTI FA		TYPE	□ ALTERATION
	Electrical Electrical Fire Protection Stormy	-					NEW REPAIR
		velopment					
	□ Grading	-					
Br	iefly Describe Proposed Scope of Work	(REQUIRED):				
w	ill your project result in (all questions n	nust be ans	wered):				
-	change of use				YES [NO 🗆
	ew Single Family dwelling				YES [NO 🗆
	reduction in any existing side yard setba				YES [NO 🗆
	i increase in lot coverage by more than 1				YES [NO 🗆
	increase in the gross floor area of more		•		YES [NO 🗆
Ar	increase in the maximum building heig	ht above the	e highest point	of the buildir	ng YES [NO 🗆
1						Continu	ed on next page

S:\CPD\FORMS\1Current Forms\Permit Apps\PermitAppBuildRevised.docx

NOTICE TO APPLICANT

Applications for which no permit is issued within 18 months shall expire. Once issued, building permits shall expire 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. 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.

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. Also, I have received authorization to utilize all contractor license information provided within this application and have been informed about contractor license laws (RCW 18.27, RCW 18.106, etc.), and the potential risks and monetary liability to the homeowner for using an unregistered contractors (general, plumbing, electrical, etc.). Further information can be obtained at 1-800-647-0982.

Signature of Owner/Contractor/Authorized DATE Agent

Printed Name of Owner/Contractor/Authorized Agent





CITY OF MERCER ISLAND	INSPECTION REQUESTS:	PROJECT ALERTS:	REQUIRED CONSTRUCTION INSPECTIONS:	
	online:	Construction of the project shall be from <i>approved plans only</i> . No deviation from the approved project plans is allowed without prior	It is the applicant's responsibility to contact DSG to schedule ALL inspections appropriate for the project. Request inspections online at	
DEVELOPMENT SERVICES GROUP	MyBuildingPermit.com	approval from the City of Mercer Island. Approved plans must be kept on site and maintained in good condition.	www.MyBuildingPermit.com or by calling the Inspection Hotline at (206) 275-7730. Allow at least 24 hours (48 hours for Reinforcing steel)	
		Refer to "Conditions of Permit Approval" provided at permit issuance for required construction rules and regulations, including:	in advance of desired inspection. Be specific as to type of inspection.	
PHONE: 206.275.7605 www.mercergov.org	voicemail:	• Site Considerations • ROW restrictions • Additional Fire Code Requirements	Inspector shall initial and date appropriate inspection <i>only</i> if approved. Note: <i>Items marked with an "*" require a separate permit.</i> It is the	
ASHI	voicemail: (206) 275-7730	• Hours of Work • Drainage Requirements • Planning Requirements	applicants responsibility to apply for and obtain all City of Mercer Island permits.	
Merah	(200) 273-7730	 Construction Vehicle Parking Restrictions Acess Road Requirements Water Service Requirements Tree Requirements 	INSPECTIONS: (Listed in order of typical sequencing)	
		 Refer to "Preconstruction Meeting Checklist" provided at the preconstruction meeting for development related requirements. 	C Pre-construction Meeting to Review Conditions of Permit Approval.	Ξ
NOTE: ALL RECORDS AND DRAWINGS ARE SUBJECT TO PUB	RUC DISCLOSURE AS REQUIRED BY RCW 42 56	 Temporary site address with minimum 6" high numbers visible from the street must be installed. 	S Tree protection	ER
	LIC DISCLOSORE AS REQUIRED DT RCW 42.50	Erosion control measures must be as shown on approved project drawings. All erosion control is to be in place and inspected	Erosion control	۵
CONTACT INFORMATION:		prior to the start of any site work.	Sewer disconnect and cap. If applicable, separate side-sewer permit required	
Applicant is to complete the following information.		A City of Mercer Island Business License is required for all subcontractors. Call (206) 275-7783 for more information.	E * Right-of-way use or work / easement, material delivery, etc. If applicable,	
Applicant Contact information <i>prior</i> to permit issuance:	Applicant Contact information <i>post</i> permit issuance:	TREE PROTECTION REQUIREMENTS:	separate ROW permit required	
	Neme	Tree protection as shown on approved drawings shall be installed at tree dripline prior to start of any site work and	Land clearing, grading and demolition	O N O
Name:	Name:	must remain in place throughout the project.	Pilings / Shoring / Shotcrete. If applicable, provide survey letter	A I ve h
Address:	Address:	No trees shall be cut without a City of Mercer Island tree permit.	(property line); Geotechnical Engineer / Special Inspector	hay hay
		Replacement trees must be a minimum of six feet tall at installation. They must be planted and approved prior to final inspection.	reports of inspections (pile and shoring installation, etc.)	D suc
Phone:	Phone:	For this project, trees are authorized to be removed and replaced with trees.	Footings, setbacks, UFER ground. If applicable, provide survey letter	ctic
		This project appears to be within a protected eagle nest area. Contact Federal Fish and Wildlife at (360) 534-9304 or visit their	(building height and setbacks); Special Inspector reports of inspections	
E mail:	Email:	website at http://www.fws.gov/pacific/eagle	(soil bearing capacity, compaction, earthwork, pile installation, etc.)	in shi
		FIRE PROTECTION REQUIREMENTS:	Foundation walls / concrete columns	d ar
REQUIRED SPECIAL INSPECTIONS / STRUCTUI	RAL OBSERVATIONS:	Separate Permits are required for ALL fire protection systems. For more information, see http://www.mercergov.org/Page.asp?NavID=2614	Roof and footing drains	qui
It is the Engineer of Record's responsibility to specify all required Spe	ecial Inspections or Structural Observation (check items below).	Fire Sprinkler	* Storm drainage, including (but not limited to):	orn
The owner is responsible for hiring an approved private Special Inspe	ector for the checked inspections noted below. All Special	Image: Sprinkler	Connections to storm · Connections to storm · Area drains	- all
Inspectors (except Geotechnical) must be WABO certified.		Plus Monitored Sprinkler	main in ROW • Conveyance piping / cleanouts	fter p
O When Special Inspection or Structural Observation is required, the repo		NFPA 13R Water Flow Alarm	Detention systems Storm drain in ROW	a q
Inspection. Note: Inspection by the City Inspector is required in additi		□ NFPA 13 □ Other:	Infiltration systems Control structures / manholes	an such
below. Do not cover or conceal any work prior to the City inspection.		Approved Fire Code Alternatives:	Catch basins including Pump systems	
STRUCTURAL OBSERVATION BY ENGINEER OF RECORD (EOR):		□ FCA1 □ FCA3	oil-water separator tees • Retaining wall drainage * Water Service	A
Engineer of Record: Compar	ny:Phone:	FCA2	Water Service Water Service	
General Conformance to Construction Documents	Other:		Water supply	
		WATER SUDDLY REQUIDEMENTS.	Side sewer installation, including (but not limited to):	
SOILS / GEOTECHNICAL:		WATER SUPPLY REQUIREIVIENTS:	Connections to side Back-flow valves	
Special Inspector: Compar		Fire sprinkler design calculations must be provided prior to determining water supply system requirements.	sewer main• Grinder pump systems	
Erosion control measures	Subsurface drainage placement	Water Supply system upgrade required	Connections to existing Sewer manholes	
Shoring installation and monitoring	Verify fill material and compaction	City Installation.	side sewer Driveway / Access road	
 Observe and monitor excavation Verification of soil bearing 	 Rockery installation Pile placement (auger cast/driven pile) 	Applicant Installation. Required Service Line Size: Required Supply Line Size: Required Meter Size:	Driveway / Access road	
Other:	Other:	(water main to meter) (water main to house)	Orderslab electrical / incentinear / planbing	
		Abandonment of existing service and meter required at main.	Underfloor framing	
REINFORCED CONCRETE:		Pressure reducing valve required if pressure exceeds 80 psi.	U Image: Second secon	
Special Inspector: Compar	ny:Phone:	Reduced pressure backflow assembly (RPBA) required for all lots with waterfront or non-city water supply (private wells	letter for lateral wood inspection.	
Concrete strength	Retaining wall construction	or lake irrigation).	Nailing-Exterior wall and Shearwall. If applicable, provide Special	
Reinforcing steel and concrete placement	Prestressed / Precast construction	Additional water supply requirements:	Inspection letter for lateral wood inspection.	
Shotcrete placement	Other:	DRAINAGE REQUIREMENTS:	Q Rough hydronic installation Q Rough electric installation	
Other:	Other:	Direct discharge into the lake.	■ ■ ■ ■ Nough electric installation	
STRUCTURAL STEEL: (AISC 360, Chapter N)		S On site infiltration system required Direct discharge into the lake	G Rough plumbing installation (DWV, water)	
Special Inspector: Compar	ny:Phone:	Image: Second state in the data system required. Image: Second state in the data system required. Image: Second state in the data system required. Image: Second state in the data system required. Image: Second state in the data system required. Image: Second state in the data system required. Image: Second state in the data system required. Image: Second state system required. Image: Second state system required. Image: Second state system required.		
Fabrication and shop welds	Moment Frame construction	Image: Section of the	G Gas Piping	
Structural steel erection, field welds and bolting	Other:		O * Rough fire sprinkler / hydrostatic and flow (bucket) test	
Other:	Other:		- Contraction letter for	
STRUCTURAL MASONRY:		Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is		
Special Inspector: Compar	ny: Phone:	lower than the elevation of the upstream manhole rim or when side sewer is shared with one or more properties. Video tape of existing sewer required (see standard details)	Masonry construction (fireplace / walls / veneer / etc.) Insulation installation	
Mortar strength	Glass unit masonry installation	New connection. Connect to existing. Disconnect permit required. Reconnect permit required.	Stucco (paper and lath)	
Mortal strength Masonry unit strength	Wall panel and veneer installation	Other:	Shower pan (or tub)	
Other:	Other:	Note: When side sewer is to be connected to the lake line you will need to schedule three (3) days in advance with the City of	Miscellaneous	
Other:	Other:	Mercer Island Maintenance Department at (206) 275-7800.	Code Alternative CA1:	
		APPROVED CODE ALTERNATIVES:	Code Alternative CA2:	
WOOD:		Code alternatives must be Inspected. Refer to the Inspection Checklist	Impact Fees Paid (If applicable)	
Special Inspector / Engineer of Record: Compar	nv: Phone:		Final Inspection: Tree Restoration	
Lateral resisting system construction	High strength diaphragm construction	[] CA2	Final Inspection: Fire protection, including (but not limited to):	
Other:	Other:		• Sprinkler • Fuel Tank Installation	
			Access Road Fire Extinguishing System	
OTHER SPECIAL INSPECTIONS:		SURVEY REQUIREMENTS (The following survey information must be submitted when checked):	Fire Code Alternatives (see below) Fire Alarm System	
Special Inspector: Compar		Surveyor shall verify points chosen for height calculations and point verification shall be submitted at the time of City foundation	FCA1: FCA3:	
Epoxy grout installations	Stucco installation	Inspection. A property survey may be required to verify setbacks and in some cases buildings must be surveyed onto the lot. The City	FCA2: FCA4:	
Expansion anchor installations Other post installed anchors	Infiltration System Exterior Inculation Einich System (ELES) installation	reserves the right to request an impervious area survey at any time prior to issuance of Certificate of Occupancy.	Final Inspection: Water supply protection, including (but not limited to) TW backflow devices for:	
 Other post installed anchors Alternative construction methods: 	 Exterior Insulation Finish System (EIFS) installation Other: 	Surveyor:Phone:	• Waterfront property • Well water on property	ட்ல்
Alternative construction materials:	Other:	Building height survey	• Fire / lawn sprinkler • Boiler	ວ ວິ
		Building setback survey	Final Inspection: Site and utility: includes landscape, utilities and ROW. Site TS	
DEFERRED SUBMITTALS:		Impervious surface survey	restoration complete and as-built drawings ready for submittal.	<u>55</u> <u>5</u> 0
The Applicant is required to select all deferred submittals / shop drav	wings for submittal to the City for review and approval prior to item	Other:	Final Inspection: Building, including electrical / mechanical / plumbing. If TB	
fabrication / construction.			applicable, provide closeout (summary) letters from Engineer, Special	APR AD
Connector plate wood trusses	Post tension layout Evtorior cladding	A Building Inspection prior to demolition is required for all legally nonconforming single family dwelling to ensure no more than 40 percent of the dwelling's exterior walks are structurally altered. Contact the Building Inspector at (206) 275, 7720	Inspectors, Geotechnical Engineer, and exterior wall cladding inspectors (EIFS).	
 Metal joist / metal trusses Premanufactured structures (stairs, etc.) 	Exterior cladding Window wall / curtain wall construction	40 percent of the dwelling's exterior walls are structurally altered. Contact the Building Inspector at (206) 275-7730.	90 DAY TEMPORARY CERTIFICATE OF OCCUPANCY (TCO):	
Precast concrete elements	Window wall / curtain wall construction Other:	Civil / Drainage LUP / Setback requirements	Applicant option. Additional fees will be required and must be approved prior to occupancy. TCO requires tree plantings be completed.	LI IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Other:	Other:	GEOTECHNICAL INFORMATION:		
ENERGY CODE COMPLIANCE INFORMATION:		Land clearing, grading, filling and foundation work within geologic hazard areas is NOT PERMITTED between October 1 and April 1		
	Alternatively incomparete existingly de the Devident's LT	without an approved Seasonal Development Limitation Waiver.	Approved Start Date End Date	
Indicate where the following information is located in the drawing se Prescriptive Compliance (RECPC) Form into the drawing set.	a. Alternatively, incorporate or include the Residential Energy Code	Geotechnical Report provided. All construction must comply with the recommendations of the Geotechnical Report. A copy of	ADDITIONAL REQUIRED CITY INSPECTIONS:	
		report and other geotechnical information must be kept on site at all times.	Call the appropriate contact to arrange the inspection.	A A
Sheet:		Geotechnical Engineer Phone		GS I DE
Building envelope: wsec Table 402.1.1	Air Leakage Testing. IRC Section R402.4.1.2 WA Amendments	Geotechnical Engineer Phone SEASONAL DEVELOPMENT LIMITATION RESTRICTION: Phone		
(include U-factors, insulation and moisture control)	Provide air leakage test report verifying air leakage rate	Applies (Geologic Hazard area). Grading not permitted between October 1 through April 1.		
Whole house ventilation: IRC Section M1507 WA Amended	does not to exceed 5 air changes per hour.	Waiver approved. Grading and excavation permitted subject to all conditions noted in Seasonal Development		A N N
	Duct Leakage Testing. WSEC R403.2.2	Limitation Waiver Permit.		
Energy Credit Information: WSEC Table 406.2	Postconstruction Test. WSEC R403.2.2.1		IMPACT FEES: PLAN REVIEW APPROVALS:	
(include specific, written requirements)	Rough-in Test. WSEC R403.2.2.3	Permit number Approved by Date		
Q RECPC Form Information:		81	O If applicable. Not all review disciplines may be required to review the documents.	
	•		Impact fees apply and are due <i>prior</i> to Final Inspection or on	
(if incorporated within drawing set) http://www.mercergov.org/files/2012ResidentialEnergyCalcForm.pdf				
				NPP ON ON
			B	APP ON REV

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SITE DEVELOPMENT INFORMATION

Worksheet for single family residential development

PROJECT INFORMATION Permit Number: Parcel Number: Phone Number: Site Address: **Owner Name:** Date: Signature & phone number of Individual who completed this worksheet: Signature Phone Number **GENERAL INFORMATION** Will any large trees be removed as a result of this development activity? Yes 🗆 No Large tree- trees with diameter of greater than or equal to 10 inches. Do you have an Accessory Dwelling Unit? New ADU Existing ADU No

Will you be adding air conditioning to the proposed development?YesNoWhat is the total square footage of all proposed decks
(covered and uncovered)on the property?Square Feet

This is a worksheet and is not a substitute for the Mercer Island Development Regulations. Please consult the Mercer Island City Code. The City may require additional information to be supplies to document compliance with regulations.

LOT SLOPE

According to the Mercer Island City Code, slope is a measurement of the average incline of the lot or other piece of land calculated by subtracting the lowest elevation of the property from the highest elevation and dividing the resulting number by the shortest horizontal distance between these two points. The resulting product is multiplied by 100.

LOT SLOPE CALCULATIONS

Highest Elevation Point of Lot:	Feet
Lowest Elevation Point of Lot:	Feet
Elevation Difference:	Feet
Horizontal Distance Between High and Low Points:	Feet
Lot Slope*	%
*Lot slope is the elevation difference divided by horizontal distance multiplied by 2	.00.
Lot slope calculations shown on Sheet #	

П

LOT COVERAGE

For single family residential development, "lot coverage" is the area of a lot that may be covered by a combination the buildings and vehicular driving surfaces. based of Lot coverage is on "net lot area". Net lot area is the size of the lot minus the area within any access easements on the property that do not provide access to the home on the subject lot. The maximum lot coverage for a specific lot is based upon the lots slope (see above). The area of the lot that cannot be used for lot coverage is "required landscaping area"; the landscaping area is typically improved with either hardscape (see below) or softscape.

Please note: Lot coverage is not the same as impervious surface calculations used for drainage review.

Lot Slope	Maximum Lot Coverage (House, driving surfaces, and accessory buildings)	Required Landscaping Area
Less than 15%	40%	60%
15% to less than 30%	35%	65%
30% to 50%	30%	70%
Greater than 50% slope	20%	80%

ADJUSTMENTS

A one-time reduction in the required landscaping area and an increase in the allowed maximum lot coverage is allowed if:

- A. The total reduction in required landscaping area shall not exceed 5%, and the total increase in maximum lot coverage shall not exceed 5%; and
- B. The reduction in required landscaping area is associated with:
 - 1. A development proposal that will result in a single-story dwelling with wheelchair accessible entry, and may also include a single-story accessory building; or
 - 2. A development proposal on a flag lot that, after optimizing driveway routing and minimizing driveway width, requires a driveway that is more than the 25% of the allowed lot coverage. The allowed reduction in the required landscaping area and increase in the maximum lot coverage shall not exceed 5% or the area of the driveway in excess of 25% of the lot coverage, whichever is less. For example, a development proposal with a driveway that occupies 27% of the allowed lot coverage, may increase the total lot coverage by 2%
- C. A recorded notice on title, covenant, easement, or other documentation in a form approved by the city, shall be required. The notice on title or other documentation shall describe the basis for the reduced landscaping area an increase in lot coverage.

Does this project include a proposed adjustment? Yes No П LOT COVERAGE CALCULATIONS A. Gross Lot Area Square Feet B. Net Lot Area Square Feet C. Allowed Lot Coverage Area **Square Feet** % of Lot D. Allowed Lot Coverage E. Existing Lot Coverage: 1. Main Structure Roof Area Square Feet Square Feet 2. Accessory Building Roof Area 3. Vehicular Use (driveway, paved access easements [portion used by the lot for access], parking Square Feet 4. Covered Patios and Covered Decks Square Feet

	5. Total Existing Lot Coverage Area (E1+E2+E3+E4)	Square Feet		
F.	F. (Total Lot Coverage Area Removed)			
G.	Proposed Adjustment for Single Story (Area)	Square Feet		
Н.	Proposed Adjustment for Flag Lot	Square Feet		
١.	Total New Lot Coverage Area:			
	1. Main Structure Roof Area	Square Feet		
	2. Accessory Structure Roof Area	Square Feet		
	3. Vehicular Use (driveway, paved access			
	easement [portion used by the lot for access],			
	parking)	Square Feet		
	4. Covered Patios and Covered Decks	Square Feet		
	5. Total New Lot Coverage Area (I1 + I2 + I3 + I4)			
J. Total Project Lot Coverage Area = (E5 - F) + I5				
К.	Proposed Lot Coverage Area = (J/B) x 100	% of Lot		
Lot o	coverage calculations shown on Plan Sheet #			
HAR	DSCAPE			

Up to 9% of the net lot area may consist of hardscape areas. For single family residential development, hardscape is the solid, hard, elements or structures that are incorporated into landscaping. The hardscape includes, but is not limited to, structures, paved areas, stairs, walkways, decks, patios, rockeries and retaining walls, and similar constructed elements that do not have a roof. The hardscape within the landscaping area consists of materials such as wood, stone, concrete, gravel, permeable pavements or pavers, and similar materials. Hardscape does not include solid, hard elements or structures that are covered by a minimum of two feet of soil intended for softscape (for example, a septic tank covered with at least two feet of soil and planted shrubs is not hardscape). The hardscape does not include driving surfaces or buildings.

In addition, unused lot coverage may also be improved with hardscape.

HARDSCAPE CALCULATIONS

А. В. С. D.	Gross Lot Area Net Lot Area Area Borrowed from Lot Coverage Allowed Hardscape Area = 9% of lot area + C	Square Feet Square Feet Square Feet % of Lot
Ε.	Allowed Hardscape Area	Square Feet
F.	Total Existing Hardscape Area:	
	1. Uncovered Decks	Square Feet
	2. Uncovered Patios	Square Feet
	3. Walkways	Square Feet
	4. Stairs	Square Feet
	5. Rockeries and Retaining Walls	Square Feet
	6. Other	Square Feet
	 Total Existing Hardscape Area (F1+F2+F3+F4+F5+F6) 	Square Feet
G.	(Total Hardscape Area Removed)	Square Feet
Н.	Total New Hardscape Area:	
	1. Uncovered Decks	Square Feet
	2. Uncovered Patios	Square Feet
	3. Walkways	Square Feet
	4. Stairs	Square Feet
	5. Rockeries and Retaining Walls	Square Feet

6. Other	Square Feet
7. Total New Hardscape Area	
(H1+H2+H3+H4+H5+H6)	Square Feet
I. Total Project Hardscape Area = (F7 - G) + H7	Square Feet
J. Total Project Hardscape Area = (I/B)x100	% of Lot
Hardscape calculations shown on Plan Sheet #	

GROSS FLOOR AREA (GFA)

For single family residential development, GFA is the total square footage of floor area, bounded by the exterior faces of the building(s). The GFA includes the floor area of the main building, accessory buildings, garages, attached roofed decks on the second or third story of a single family home, staircases, etc. The GFA does not include second- or third-story uncovered decks or uncovered rooftop decks.

The GFA includes the floor area of the main building, accessory buildings, garages, attached roofed decks on the second or third story of a single family home, staircases, etc. The GFA does not include second- or third-story uncovered decks or uncovered rooftop decks. GFA does not include any portion of a building that is below ground (refer to page 6).

Allowed GFA

- A. R-8.4: 5,000 square feet or 40% of the lot area, whichever is less.
- B. R-9.6: 8,000 square feet or 40% of the lot area, whichever is less.
- C. R-12: 10,000 square feet or 40% of the lot area, whichever is less.
- D. R-15: 12,000 square feet or 40% of the lot area, whichever is less.
- E. All zones: Lots with a lot area of 7,500 square feet or less, the lesser of 3,000 square feet or 45% of the lot area.
- F. All zones: If an accessory dwelling unit is proposed, the 40% allowed GFA may be increased by the lesser of 5 percentile points, or the floor area of the accessory dwelling unit. Provided, this allowance shall not result in a GFA of more than 4,500 square feet or 45% of the lot area, whichever is less.

GFA Modifiers

The GFA calculation for a floor with a ceiling height of 12 to 16 feet, is 150% of the area of the floor. The GFA calculation for a floor with a ceiling height of more than 16 feet, is 200% of the area of the floor. The GFA calculation for a stair case shall be counted as a single floor for the first two stories accessed by the stair case. For each additional story above two stories, the stair case shall count as a single floor area.

*Floor plans shall identify rooms with a ceiling height of more than 12 feet and rooms with a ceiling height of more than 16 feet.

All building areas must be identified and labeled on the site plan. Please distinguish all new construction from existing areas on both your drawing and in the calculations you complete below.

Will you be excluding a portion of the basement floor area? Yes \Box No \Box If yes, you must provide basement floor area calculations, with your building permit application, that show how you determined what portion of the basement will be excluded. Refer to page 6.

GROSS FLOOR AREA CALCULATIONS

Building Area	Existing Area	Removed Area	New/Addition Area	Total
Upper Floor	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
Main Floor	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
Gross Basement Area	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
Garage/ Carport	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
Total Floor Area	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
Accessory Buildings	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.

Accessory Dwelling Unit	Sq. Ft	Sq. Ft	Sq. Ft.	Sq. Ft.
2 nd & 3 rd Story Roofed Decks	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
Basement Area Excluded	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
150% GFA Modifier* (main and upper floor x2)	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
200% GFA Modifier* (main and upper floor x2)	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
Staircase GFA Modifier* (x2 for a three story staircase, x3 for a four story staircase)	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
TOTAL Building Area *Enter the actual room ar	Sq. Ft	Sq. Ft.	Sq. Ft.	Sq. Ft.
A. Lot Area				Square Feet
D. Allowed Gross FloorE. Proposed Gross FloorF. Proposed Gross Floor	or Area or Area	□ R-12 □ FA")] R-15	□ Square Feet % of Lot Square Feet % of Lot
Gross floor area calculatio	ons found on Plan Sheet #			
Basement exclusion calcu	lations found on Plan Shee	et #		

BUILDING HEIGHT

All building height measurements must be taken from existing grade or finished grade, whichever is lower. Existing grade refers to ground surface as it exists at the proposed building perimeter before grading or other alterations take place. Finished grade refers to the ground surface as it exists at the building perimeter after grading or other alterations take place.

Single family new construction and additions are limited to a maximum height of 30 ft. above the Average Building Elevation (ABE) – see section on next pages. The height is measured to the top of the structure. On the downhill side of a sloping lot, the wall façade height is also limited to a height of 30 feet measured from existing or finished grade (whichever is lower) to the top of the exterior wall facade supporting the roof framing, rafters, trusses, etc.

A topographic survey is required at permit application when the proposed building height is within 2 ft. of the allowable building height. The survey must include a statement that attests the average contour elevation within the vicinity of the building footprint to be accurate within 6 inches vertically and horizontally from actual elevations.

BUILDING HEIGHT CALCULATIONS

- A. Average Building Elevation (ABE) calculations located on sheet #:
- B. Allowable Building Height (ABE + 30 ft.)
- C. Proposed Building Height
- D. Benchmark Elevation*
- E. Describe Benchmark Location (must be undisturbed throughout project)

Feet

Feet

Feet

- F. Sloping lot (Downhill side)- maximum height of top of exterior wall façade above lowest existing grade (30-ft max)
 Feet
- G. ABE and Allowable Building Height Shown on elevations plan sheet #
- H. Topo-survey Accuracy Attested on Plan Sheet #

Note: survey must attest to accuracy when proposed building height is within 2 feet of the allowable building height. Please see page 8 for more information on calculating Average Building Elevation (ABE) *The benchmark elevation is a fixed elevation point on or off site that will not be disturbed during development activity and is used to verify the final building height.

BASEMENT FLOOR AREA CALCULATION

The Mercer Island Development Code allows for the portion of the basement floor area which is below grade to be excluded from the Gross Floor Area. That portion of the basement which will be excluded is calculated as shown:

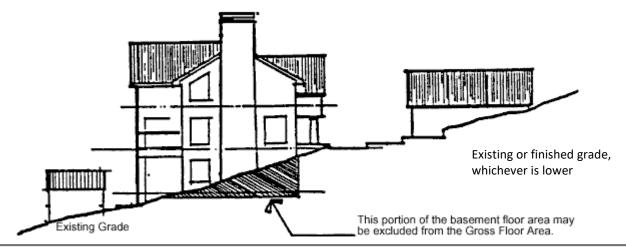
Portion of Excluded Basement Floor Area = Total Basement Area x

Σ (Wall Segment Coverage x Wall Segment Length)

Total of all Wall Segment lengths

Where the terms are defined as follows:

Total Basement Area:The total amount of all basement floor area.Wall SegmentThe portion of an exterior wall below existing or finished grade, whichever is lower. It isCoverage:expressed as a percentage. Refer to example below.Wall Segment Length:The horizontal length of each exterior wall in feet.



EXAMPLE OF BASEMENT FLOOR AREA CALCULATION

This example illustrates how a portion of the basement floor area may be excluded from the Gross Floor Area. In order to complete this example, the following information is needed:

- a. A topographic map of the existing (e) grades and showing proposed finished (f) grades.
- b. Building plans showing dimensions of all exterior wall segments and floor areas.
- c. Building elevations showing the location of existing and finished grades in relation to basement level.

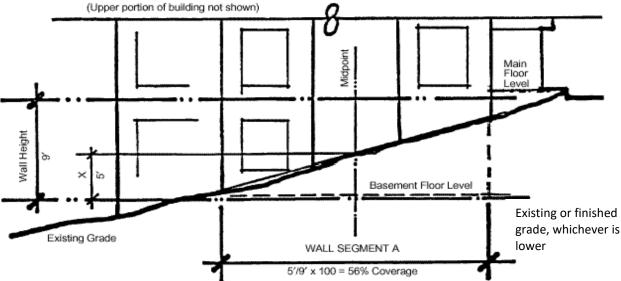
Step One

Determine the number and lengths of the Wall Segments.

Step Two

Determine the Wall Segment Coverage (in %) for each Wall Segment. In most cases this will be readily apparent, for example a downhill elevation which is entirely above existing and finished grade. In other cases, where the existing contours are complex, an averaging system shall be used. Refer to illustration.





Step Three

Multiply each Wall Segment Length by the percentage of each Wall Segment Coverage and add these results together. Divide that number by the sum of all Wall Segment Lengths. This calculation will result in a percentage of basement wall which is below grade. (This calculation is most easily completed by compiling a table of the information as illustrated below.)

Wall Segment	Length x	Coverage=	Result
А	25'	56%	14%
В	10'	0%	0%
В	8′	0%	0%
D	25'	0%	0%
E	8'	0%	0%
F	13'	0%	0%
G	25'	60%	15%
н	48'	100%	48%
Totals	162'	NA	77%

Step Four

Multiply the Total Basement Floor Area by the above percentage to determine the Excluded Basement Floor Area. Portion of Excluded Basement Floor Area Calculation below

1,400 Sq. Ft.x (25' x 56% + 10' x 0% . . . 25' x 60% + 48' x 100%)

162'

= 1,400 Sq. Ft. x 47.53%

= 665.42 Sq. Ft. Excluded from the Gross Floor Area

CALCULATING AVERAGE BUILDING ELEVATION (ABE)

No part of a structure may exceed 30 feet in height above the "Average Building Elevation" to the top of the structure, except that on the downhill side of a sloping lot the structure shall not extend to a height greater than 30 feet measured from existing or finished grade to the top plate of the roof; provided the roof ridge does not exceed 30 feet in height above the "Average Building Elevation." ABE is defined as: The elevation established by averaging the elevation at existing or finished grade, whichever is lower, at the center of all exterior walls of the completed building.

NOTE:	AVERAGE BUILDING ELEVATION FORMULA:
INCOMPLETE	(Mid-point Elevation of Individual Wall Segment) x (Length of Individual Wall Segment)
AVERAGE BUILDING	(Total Length of Wall Segments)
ELEVATION	—OR—
	(Axa)+(Bxb)+(Cxc)+(Dxd)+(Exe)+(Dxd)+(Exe)+(Fxf)+(Gxg)+(Hxh)
INFORMATION	a + b + c + d + e + f + g + h
COULD	WHERE: A,B,C,D = Lower of Finished or Existing Ground Elevation at Midpoint of Wall
SUBSTANTIALLY	Segment
DELAY THE	AND: a,b,c,d = Length of Wall Segment Measured on Outside Wall
PROCESSING OF	
YOUR APPLICATION	



MIDPOINT E	LEVATION	WALL SEGME	INT LENGTH
A =	105.9 feet	a =	30 feet
B =	104.7 feet	b =	9 feet
C =	103.7 feet	c =	17 feet
D =	102.7 feet	d =	25 feet
E =	101.6 feet	e =	13 feet
F =	101.7 feet	f =	6 feet
G =	102.2 feet	g =	34 feet
H =	104.5 feet	h =	40 feet

ABE CALCULATION: (105.9)(30)+(104.7)(9)+(103.7)(17)+(102.2)(25)+(101.6)(13)+(101.7)(6)+(102.2)(34)+(104.5)(40) 30+9+17+25+13+6+34+40

18023' = 103.6' Average Building Elevation (ABE)

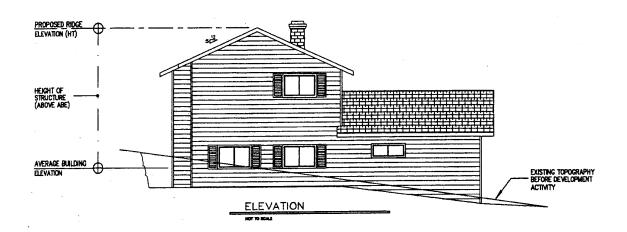
174'

NOTE: This example is not to scale. Site plans submitted to the building department must be to scale.

BEFORE SUBMITTING YOUR CONSTRUCTION DRAWINGS, CHECK TO SEE THAT YOU HAVE PROVIDED THE INFORMATION BELOW.

- □ The site plan and the elevation drawings must be drawn to scale, for example 1" = 20', and based on a survey.
- Clearly show existing topography on your site plan. Topography should be shown in 2' increments.
- Submit (with the site plan) your average building elevation calculations using the formula provided on page 8.
- □ Indicate on an elevation drawing where the average building elevation strikes the building and the proposed ridge elevation (see below for example).
- Elevation drawings for all sides of the building.
- □ Indicate on the site plan the elevation of the finished floor or garage slab.
- □ Indicate the elevation and location of a fixed point (benchmark) within the ADJACENT RIGHT-OF-WAY or other point approved by the Building Official. The benchmark elevation and location must be provided and cannot be a part of the proposed structure. Note: Benchmark must be established, verified by a licensed surveyor and remain during construction so height can be verified when completed.
- For additions, you must provide an average building elevation calculation for the entire structure.
- □ If a portion of the basement floor area will be excluded from the gross floor area, provide the exclusion calculations with your site plan. The formula for basement area exclusions is shown on page 6.
- □ Indicate ceiling heights greater than 12′ and greater than 16′ on floor plans.

CROSS-SECTION REPRESENTATION OF ABE





2021 RESIDENTIAL FIRE AREA SQUARE FOOTAGE CALCULATION

Project Type: New Single Family	□ Alteration	□ Addition	ADU/DADU
Project Address:			
Contact Name:		Phone No.	
Owner Name:			

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.

CONSTUCTION VALUATION TYPE (verified with permit application)

Good	Very Good	Very Good Custom	Luxury Custom
\$180 sq/ft	\$230 sq/ft	\$280 sq/ft	\$380 sq/ft
	Select One:	*.	Hit enter when done

NEW CONSTRUCTION (over for addition or alteration)

N/A	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 existin		1	Final
Measurements	Existing Square Footage	Standardized Value	Square Footage
Main Floor interior	rootage	x sq/ft	Square rootage
Lower Floor Interior		x sq/ft	
Other Floors interior		x sq/ft	
Basement interior		X sq/ft	
Attached Garage interior		X sq/ft	
Covered Decks interior		X sq/ft	
Other interior		x sq/ft	
TOTALS			
Construction Cost \$			
	Officia		
Construction Cost \$ Verified Cost \$			
	Officia	al Use	= %
Verified Cost \$	Officia	al Use	= %
Verified Cost \$ Higher of Verified or Cost \$	Officia	al Use	
Verified Cost \$ Higher of Verified or Cost \$ □ Valuation Ratio	Officia etached garage or simila	al Use 	
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio Exempt structure – de Less than 10% (fire re	Officia etached garage or simila wiew not required)	al Use 	if.

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 (and 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.