# **CITY OF MERCER ISLAND**

### **COMMUNITY PLANNING & DEVELOPMENT**

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# **SECTION A: SMALL PROJECT STORMWATER SITE PLAN/REPORT**

### **Narrative and Plan Submittal**

<u>Instructions</u>: This is a template for a simplified Stormwater Report. This form or an equivalent must accompany your Building Permit Application if the answer is "Yes" to each statement below. If "No" is the answer to one or more of the statements below, a full Drainage Report is required and the project does not qualify for use of the Small Project Stormwater Site Plan/Report template.

Select "yes" or "no" for each statement below. Answer "yes" if the statement accurately describes your project.

Yes	No	Statement
<b>✓</b>		This project disturbs less than 1 acre and is not part of a larger common plan of development.
<b>/</b>		This project converts less than 3/4 acre to lawn or landscape areas.
<b>✓</b>		This project will create, add, or replace (in any combination) 2,000 square feet or greater, but less than 5,000 square feet, of new plus replaced hard surface <b>OR</b> will have a land disturbing activity of 7,000 square feet or greater <b>OR</b> will result in a net increase of impervious surface of 500 square feet or greater.
<b>✓</b>		This project will not adversely impact a wetland, stream, water of the state, or change a natural drainage course.

## **Basic Project Information**

Project Name: SE 20th St SFR	
Site Address: 80XX SE 20th St (southeastern corner of intersection of SE 20th St, SE 22nd PI and 80th Ave SE)	
Total Lot Size: 9,386 sf	
Total Proposed Area to be Disturbed (including stockpile area): 9386	sq_ft
Total Volume of Proposed Cut and Fill: 30 cy	sq ft
Total Proposed New Hard Surface Area:	sq ft
Total Proposed Replaced Hard Surface Area: 0	sq ft
Total Proposed Converted Pervious Surface Area (Native vegetation to lawn or landscape):	sq ft
Net Increase in Impervious Surface:	sq ft

## Minimum Requirement #1: Preparation of Stormwater Site Plan

#### Written Project Description:

The applicant proposes to construct a new single-family residence on a vacant lot located at the
southeastern corner of the intersection of 80th Ave SE and SE 20th St. The project site is a 9,386 sf
trapezoidal lot (Parcel No. 544930-0057) that slopes steeply in the southeastern corner, then
gradually across the central portion of the site to the northwest. The project site loses approximately
12' of elevation between corners of the site. The lot is presently vacant and vegetated with lawn and
landscaping. A new single-family residence will be constructed in the central portion of the lot, with
access provided by a new driveway entering the site from SE 20th St.

### Calculate new or replaced areas by surface type:

Lawn or Landscape Areas: <u>577</u>	<b>'</b> 4		sq ft	Roof Area:	3206	sq ft
Other Hard Surface Areas:  Driveway: 406	_ sq ft	Patio:		sq ft	Sidewalk:	_ sq ft
Parking Lot:	_ sq ft	Other:		sq ft		

# **✓**

Attach Drainage Plan

### Drainage Plan shall include the following:

- <u>Scaled drawing</u> with slopes, lot lines, any public-right-of-way and any easements, location of each on-site stormwater management BMP selected above and the areas served by them, buildings, roads, parking lots, driveways, landscape features, and areas of disturbed soils to be amended.
- The scaled drawing must be suitable to serve as a recordable document that will be attached to the property deed for each lot that includes on-site BMPs. Document submittal must follow the "Standard Formatting Requirements for Recording Documents" per King County: <a href="https://www.kingcounty.gov/depts/records-licensing/recorders-office/recording-documents.aspx">www.kingcounty.gov/depts/records-licensing/recorders-office/recording-documents.aspx</a>
- Identify design details and maintenance instructions for each on-site BMP, and attach them to this Small Project Stormwater Site Plan/Report.

OHIN	
Mi	nimum Requirement #2 : Construction Stormwater Pollution Prevention
$\checkmark$	Complete Section B of this submittal package: Construction Stormwater Pollution Prevention Plan Narrative (SWPPF
$\checkmark$	Attach construction SWPPP
Mi	nimum Requirement #3 : Source Control of Pollution
availa storn	section contains practices and procedures to reduce the release of pollutants. Provide a description of all known, able and reasonable source control BMPs that will be, or are anticipated to be, used at this location to prevent nwater from coming into contact with pollutants. Additional BMPs are found in Volume IV of the 2014 Stormwater agement Manual for Western Washington (SWMMWW).
Chec	k the BMPs you will use:
$\checkmark$	BMP S411 for Landscaping and Lawn/ Vegetation Management Operational practices for sites with landscaping
	BMP S421 for Parking and Storage of Vehicles.  Public and commercial parking lots can be sources of suspended solids, metals, or toxic hydrocarbons such oils and greases.
	BMP S433 for Pools, Spas, Hot Tubs, Fountains  Discharge from pools, hot tubs, and fountains can degrade ambient water quality. Routine maintenance activities generate a variety of wastes. Direct disposal of these waters to drainage system and waters of the state are not permitted without prior treatment and approval.
	Other BMPs found in Volume IV of SWMMWW applicable to project:

No source control BMPs are applicable for this project.

# **Minimum Requirement #4: Preservation of Natural Drainage Systems**

Natural drainage patterns shall be maintained and discharges from the project site shall occur at the natural location, to

the maximum extent practicable. All outfalls require energy dissipation.
Choose the option below that best describes your project:
This site has existing drainage systems or outfalls. These items are shown on the Drainage Plan. Include the following items on the Drainage Plan:
<ul> <li>Pipe invert elevations, slopes, cover, and material</li> <li>Locations, grades, and direction of flow in ditches and swales, culverts, and pipes</li> </ul>
Describe how these systems will be preserved:
This site does not have any existing drainage systems or outfalls.
Additional Comments:
Under existing conditions runoff from the project site flows overland to the northwest. These flows are collected by an existing City of Mercer Island catch basin at the northwestern corner of the project lot.
Under proposed conditions runoff from the driveway and walkway will be dispersed to the north and west and flow overland until they are collected by the existing drainage system in 89th Ave SE. Roof runoff will be detained prior to being routed to the existing drainage system in 80th Ave SE. Flows in this system discharge directly to Lake Washington approximately 350' north of the project site.

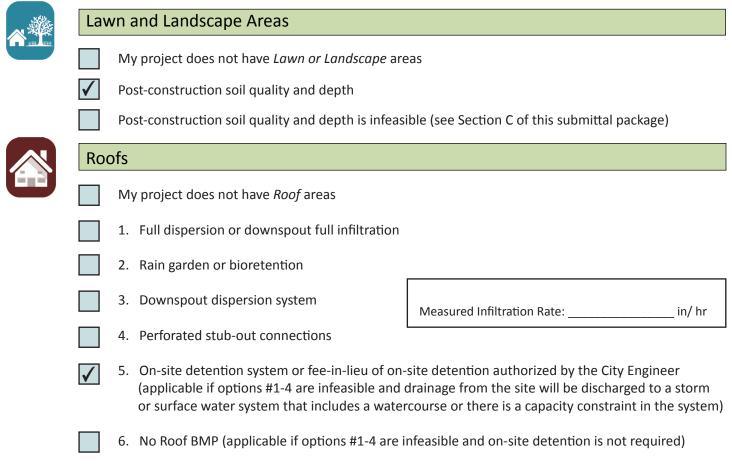
### Minimum Requirement #5: On-site Stormwater Management

All projects meeting the thresholds for this Small Project Stormwater Report shall employ on-site stormwater management BMPs (See Small Project Stormwater Requirements Tip Sheet) to infiltrate, disperse, and retain stormwater runoff on-site to the extent feasible without causing flooding or erosion impacts.

#### List #1

For each category select the <u>first</u> feasible item on the list below. Document your justification for each infeasible BMP in Section C of this submittal package.

Check one option for each category below:



If #5 or #6 is selected, briefly describe why no Roof BMP is feasible (include detailed information in Section C of this submittal package):

The proposed project layout precludes the installation of downspout dispersion systems with adequate vegetated flow paths. A Geotechnical engineer found that project site is underlaid by fill to a depth of 5'. Evidence of Seasonal High Groundwater was observed at a depth of 5' rendering infiltration infeasible.

The project discharges to a City of Mercer Island Storm Drain that discharges directly to Lake Washington approximately 350' north of the project site.

Minimum Requirement #5 : On-site Stormwater Management (cont.)				
	Oth	ner Hard Surfaces (such as driveway, sidewalk,	parking lot, patio, etc.)	
		My project does not have Other Hard Surface areas		
		1. Full dispersion	Measured Infiltration Rate: in/ hr	
		2. Permeable pavement, rain gardens, or bioretention		
	$\checkmark$	3. Sheet flow dispersion or concentrated flow dispersion		
		4. On-site detention system or fee-in-lieu of on-site deten (applicable if options #1-3 are infeasible and drainage from surface water system that includes a watercourse or	om the site will be discharged to a storm	
		5. No Other Hard Surface BMP (applicable if options #1-3 required)	are infeasible and on-site detention is not	
		cted, briefly describe why no Other Hard Surface BMP is fea submittal package):	sible (include detailed information in	
Flow Co	ontro	l Exempt List		
confirm th	at the o	list if your project discharges directly to Lake Washington of downstream system is free of capacity constraints for a min	imum of ¼ mile and a maximum of 1 mile.	
evaluated	in prior	exempt discharges, the BMPs listed below for Roofs and Otherity order. You can select any BMP from the lists provided be cition C of this submittal package.		
Check <u>one</u>	option	for <u>each category</u> below:		
	Lav	vn and Landscape Areas		
440 433		My project does not have Lawn or Landscape areas		

Post-construction soil quality and depth

Minimum I	Requirement #5 : On-site Stormwater Management (cont.)
R	oofs
	My project does not have <i>Roof</i> areas
	Downspout full infiltration
	Downspout dispersion system
	Perforated stub-out connections
$\checkmark$	Each item above is infeasible
If "Each item ab	ove is infeasible" is selected, briefly describe why no Roof BMP is feasible:
groundwater has mapped	isultants, Inc found that the site is underlaid by 5' of fill and evidence of seasonal high was observed at a depth of 5' rendering infiltration infeasible. The City of Mercer Island the project site as infeasible for infiltration. Site topography and the proposed site layout installation of a downspout dispersion system with adequate vegetated flow paths to runoff.
0	ther Hard Surfaces (such as driveway, sidewalk, parking lot, patio, etc.)
	My project does not have Other Hard Surface areas
$\checkmark$	Sheet flow dispersion
	Concentrated flow dispersion
	Each item above is infeasible
If "Each item ab	pove is infeasible" is selected, briefly describe why no Other Hard Surface BMP is feasible:

### **Instructions**

This is a template for a simplified Construction Stormwater Pollution Prevention Plan ("Construction SWPPP"). If "No" is the answer to one or more of the statements on the first page of Section A of this submittal package, then a full Construction SWPPP is required and the project does not quality for the use of the Small Project Construction SWPPP Narrative template. If the project is less than the thresholds on the first page of Section A of this submittal package, then Minimum Requirement #2 still applies, but this section (Section B) or a full construction SWPPP is not required. You should include your Construction SWPPP in your contract with your builder. A copy of the Construction SWPPP must be located at the construction site or within reasonable access to the site for construction and inspection personnel at all times.

## **General Information on the Existing Site and Project**

Describe the following in the Project Narrative box below (attach additional pages if necessary):

- Nature and purpose of the construction project
- Existing topography, vegetation, and drainage, and building structures
- Adjacent areas, including streams, lakes, wetlands, residential areas, and roads that might be affected by the
  construction project
- How upstream drainage areas may affect the site
- Downstream drainage leading from the site to the receiving body of water
- Areas on or adjacent to the site that are classified as critical areas
- Critical areas that receive runoff from the site up to one-quarter mile away
- · Special requirements and provisions for working near or within critical areas
- Areas on the site that have potential erosion problems

### Project Narrative:

The applicant proposes to construct a new single-family residence on a vacant lot located at the southeastern corner of the intersection of 80th Ave SE and SE 20th St. The project site is a 9,386 sf trapezoidal lot (Parcel No. 544930-0057) that slopes steeply in the southeastern corner, then gradually across the central portion of the site to the northwest. The project site loses approximately 12' of elevation between corners of the site. The lot is presently vacant and vegetated with lawn and landscaping. A new single-family residence will be constructed in the central portion of the lot, with access provided by a new driveway entering the site from SE 20th St.

The City of Mercer Island GIS Portal identifies the site as having shallow groundwater and being infeasible for infiltration. The site is also identified as a Wind Exposure Hazard, a Potential Slide Hazard, a Seismic Hazard, and the southeastern corner is identified as an Erosion Hazard. Runoff from the site flows overland to the northwest and enters the existing City of Mercer Island drainage system offsite.

## **Construction SWPPP Drawings**

Refer to the general Drawing Requirements in Stormwater Management Manual for Western Washington (SWMMWW) Volume I, Chapter 3.

### **Vicinity Map**

Provide a map with enough detail to identify the location of the construction site, adjacent roads, and receiving waters.

Sit	е Мар	
Inclu	ide the following (where applicable):	
	Legal description of the property boundaries or an illustration of property lines (including distances) on the drawings.	Final and interim grade contours as appropriate, drainage basins, and the direction of stormwater flow during and upon completion of construction.
	North arrow.	Areas of soil disturbance, including all areas affected by clearing, grading, and excavation.
	Existing structures and roads.	
	Boundaries and identification of different soil types.	Locations where stormwater will discharge to surface waters during and upon completion of construction.
	Areas of potential erosion problems.	Existing unique or valuable vegetation and vegetation to be preserved.
	Any on-site and adjacent surface waters, critical areas, buffers, flood plain boundaries, and Shoreline Management boundaries.	Cut-and-fill slopes indicating top and bottom of slope catch lines.
	Existing contours and drainage basins and the direction of flow for the different drainage areas.	Total cut-and-fill quantities and the method of disposal for excess material.
	Where feasible, contours extend a minimum of 25 feet beyond property lines and extend sufficiently to depict existing conditions.	Stockpile; waste storage; and vehicle storage, maintenance, and washdown areas.
Те	mporary and Permanent BMPs	
Inclu	ide the following on site map (where applicable):	
	Locations for temporary and permanent swales, interceptor trenches, or ditches.	Details for bypassing off-site runoff around disturbed areas.
	Drainage pipes, ditches, or cut-off trenches associated with erosion and sediment control and stormwater management.	Locations of temporary and permanent stormwater treatment and/or flow control best management practices (BMPs).
	Temporary and permanent pipe inverts and minimum slopes and cover.	Details for all structural and nonstructural erosion and sediment control (ESC) BMPs (including, but not limited to, silt fences, construction entrances, sedimentation facilities, etc.)
	Grades, dimensions, and direction of flow in all ditches and swales, culverts, and pipes.	Details for any construction-phase BMPs or techniques used for Low Impact Development (LID) BMP protection.
	Locations and outlets of any downtoring systems	

# **Element 1: Preserve Vegetation / Mark Clearing Limits**

The goal of this element is to preserve native vegetation and to clearly show the limits of disturbance.
This element does not apply to my project because:
The site was cleared as part of clearing activity that is subject to an enforcement action and is re-vegetated. Restoration may be necessary to comply with Critical Area Regulations or NPDES requirements. Buffer Zones-BMP C102 may apply if Critical Areas exist on-site and buffer zones shall be protected.
Other Reason / Additional Comments:
f it does apply, describe the steps you will take and select the best management practices (BMPs) you will use:
The perimeter of the area to be cleared shall be marked prior to clearing operation with visible flagging, orange plastic barrier fencing and/or orange silt fencing as shown on the SWPPP site map. The total disturbed area shall be less than 7,000 square feet. Vehicles will only be allowed in the areas to be graded, so no compaction of the undeveloped areas will occur.
Additional Comments:
Limits of work will be clearly marked with High Visibility Fence. Existing vegetation will be maintained to the greatest extent practicable. Trees that are to remain will be protected.
Check the BMPs you will use:
C101 Preserving Natural Vegetation C102 Buffer Zones C103 High Visibility Fend

### **Element 2: Construction Access**

Entrance / Exit

Element 2. Construction Access
The goal of this element is to provide a stabilized construction entrance/exit to prevent or reduce or sediment track out.
This element <u>does not</u> apply to my project because:
The driveway to the construction area already exists and will be used for construction access. All equipment and vehicles will be restricted to staying on that existing impervious surface.
Other Reason / Additional Comments:
If it <u>does</u> apply, describe the steps you will take and select the BMPs you will use:
A stabilized construction entrance will be installed prior to any vehicles entering the site, at the location shown on the SWPPP site map.
Additional Comments:
Check the BMPs you will use:
C105 Stabilized Construction C106 Wheel Wash C107 Construction Road /

Parking Area Stabilization

## **Element 3: Control Flow Rates**

The goal of this element is to construct retention or detention facilities when necessary to protect properties and waterways downstream of development sites from erosion and turbid discharges.

This el	ement does not apply to my project because:
	Other Reason / Additional Comments:
f it <u>do</u>	es apply, describe the steps you will take and select the BMPs you will use:
$\checkmark$	Flow rates will be controlled by using SWPPP Element 4 sediment controls and BMP T5.13 Post-Construction Soil Quality and Depth if necessary.
Addi	tional Comments:

## **Element 4: Sediment Control**

The goal of this element	is to construct	sediment cont	ol BMPs tha	t minimize :	sediment (	discharges	from the
site.							

This e	ement does not apply to my project because:			
	The site has already been stabilized and re-vegetated.			
	Other Reason / Additional Comments:			
If it <u>does</u> apply, describe the steps you will take and select the BMPs you will use:				
<b>√</b>	Sediment control BMPs shall be placed at the locations shown on the SWPPP site map			
$\checkmark$				
$\checkmark$	Sediment control BMPs shall be placed at the locations shown on the SWPPP site map			
$\checkmark$	Sediment control BMPs shall be placed at the locations shown on the SWPPP site map			
$\checkmark$	Sediment control BMPs shall be placed at the locations shown on the SWPPP site map			
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Add	Sediment control BMPs shall be placed at the locations shown on the SWPPP site map			
Add	Sediment control BMPs shall be placed at the locations shown on the SWPPP site map ional Comments:			

Element 5: Stabilize Soils
he goal of this element is to stabilize exposed and unworked soils by implementing erosion control BMPs.
his element <u>does not</u> apply to my project because:
Other Reason / Additional Comments:
it <b>does</b> apply, describe the steps you will take and select the BMPs you will use:
Exposed soils shall be worked during the week until they have been stabilized. Soil stockpiles will be located within the disturbed area shown on the SWPPP site map. Soil excavated for the foundation will be backfilled against the foundation and graded to drain away from the building. No soils shall remain exposed and unworked for more than 7 days from May 1 to September 30 or more than 2 days from October 1 to April 30. Once the disturbed landscape areas are graded, the grass areas will be amended using BMP T5.13 Post-Construction Soil Quality and Depth. All stockpiles will be covered with plastic or burlap if left unworked.
Additional Comments:
Check the BMPs you will use:
C120 Temporary & C122 Nets & Blankets C124 Sodding C131 Gradient C235 Wattle Permanent Seeding
C121 Mulching C123 Plastic Covering C125 Topsoil / C140 Dust Control Composting

# **Element 6: Protect Slopes**

The goal	of this	element	is to o	lesign	and	construct	cut-and-	fill sl	ones i	n a	manner	to mini	mize (	erosion.
TIIC SOUL	01 (1113	CICIIICIII	. 13 (0 0	1031511	alla	COLIDII GCL	cat ana	1111 31	OPCJI	1 I U	IIIUIIICI		111120	_ 1 0 3 1 0 1 1 1 .

The goal of this element is to design and construct cut-and-fill slopes in a manner to minimize erosion.					
This ele	ement <mark>does not</mark> apply to my projec	ct becau	ise:		
$\checkmark$	No cut slopes over 4 feet high or 4 feet high will exceed 3 feet hor engineered slope protection.				foot vertical, and no fill slopes over is no requirement for additional
	Other Reason / Additional Comn	nents:			
	oes apply, describe the steps you v	vill take	and select the BMPs you w	vill use:	
Addit	ional Comments:				
Check	the BMPs you will use:				
	C120 Temporary & Permanent Seeding		C205 Subsurface Drains		C207 Check Dams
	C204 Pipe Slope Drains		C206 Level Spreader		C208 Triangular Silt Dike (Geotextile-Encased Check Dam)

## **Element 7: Protect Permanent Drain Inlets**

The goal of this element is to protect storm drain inlets during construction to prevent stormwater runoff from entering the conveyance system without being filtered or treated.

This ele	ement <u>does not</u> apply to my project because:
	The site has open ditches in the right-of-way or private road right-of-way.
	There are no catch basins on or near the site.
	Other Reason / Additional Comments:
If it do	oes apply, describe the steps you will take and select the BMPs you will use:
	Catch basins on the site or immediately off site in the right-of-way are shown on the SWPPP site map. Storm drain inlet protection shall be installed.
Addit	ional Comments:
Check	the BMPs you will use:
	C220 Storm Drain Inlet Protection

## **Element 8: Stabilize Channels and Outlets**

The goal of this element is to design, construct, and stabilize on-site conveyance channels to prevent erosion from entering existing stormwater outfalls and conveyance systems.

This element does not apply to my project because:
Construction will occur during the dry weather. No storm drainage channels or ditches shall be constructed eith temporary or permanent. A small swale shall be graded to convey yard drainage around the structure using a shallow slope; it shall be seeded after grading and stabilized.
Other Reason / Additional Comments:
If it <b>does</b> apply, describe the steps you will take and select the BMPs you will use:
A wattle shall be placed at the end of the swale to prevent erosion at the outlet of the swale.
Additional Comments:
Check the BMPs you will use:
C202 Channel Lining C207 Check Dams C209 Outlet Protection C235 Wattles

## **Element 9: Control Pollutants**

The goal of this element is to design, install, implement and maintain BMPs to minimize the discharge of	
pollutants from material storage areas, fuel handling, equipment cleaning, management of waste materials	, etc.

Jonat	reality from material storage areas, fact harraning, equipm	ient dearing, management or waste materials, etc.			
This ei	element does not apply to my project because:				
	Other Reason / Additional Comments:				
If it <u>c</u>	does apply, describe the steps you will take and select the BN	IPs you will use:			
Addi	shall be kept under cover in a secure location on-site. Concrete handling shall follow BMP C151.				
Addi	litional Comments:				
Chec	ck the BMPs you will use:				
$\checkmark$	C151 Concrete Handling	C152 Sawcutting and Surfacing Pollution Prevention			
$\checkmark$	C153 Material Delivery, Storage, and Containment	C154 Concrete Washout Area			

Element 10: Control De-watering
The goal of this element is to handle turbid or contaminated dewatering water separately from stormwater.
This element does not apply to my project because:
✓ No dewatering of the site is anticipated.
Other Reason / Additional Comments:
If it <u>does</u> apply, describe the steps you will take and select the BMPs you will use:
Additional Comments:
Check the BMPs you will use:
C203 Water Bars C236 Vegetated Filtration C206 Level Spreader

### **Element 11: Maintain Best Management Practices**

The goal of this element is to maintain and repair all temporary and permanent erosion and sediment control BMPs to assure continued performance.

Describe the steps you will take:



Best Management Practices or BMPs shall be inspected and maintained during construction and removed within 30 days after the City Inspector or Engineer determines that the site is stabilized, provided that they may be removed when they are no longer needed.

### **Element 12: Manage the Project**

The goal of this element is to ensure that the construction SWPPP is properly coordinated and that all BMPs are deployed at the proper time to achieve full compliance with City regulations throughout the project.

If it **does** apply, describe the steps you will take and select the BMPs you will use:

The Construction SWPPP will be implemented at all times. The applicable erosion control BMPs will be implemented in the following sequence:

- Mark clearing limits
   Install stabilized construction entrance
   Install protection for existing drainage systems and permanent drain inlets
   Establish staging areas for storage and handling polluted material and BMPs
- 6. Grade and install stabilization measures for disturbed areas

5. Install sediment control BMPs

7. Maintain BMPs until site stabilization, at which time they may be removed

#### Additional Comments:

### **Element 13: Protect Low Impact Development BMPs**

The goal of this element is to protect on-site stormwater management BMPs (also known as "Low Impact Development BMPs") from siltation and compaction during construction. On-site stormwater management BMPs used for runoff from roofs and other hard surfaces include: full dispersion, roof downspout full infiltration or dispersion systems, perforated stubout connections, rain gardens, bioretention systems, permeable pavement, sheetflow dispersion, and concentrated flow dispersion. Methods for protecting on-site stormwater management BMPs include sequencing the construction to install these BMPs at the latter part of the construction grading operations, excluding equipment from the BMPs and the associated areas, and using the erosion and sedimentation control BMPs listed below.

Describe the construction sequencing you will use:

Additional Comments:				
There are no proposed LID BMPs on the project site. A transition zone from the proposed driveway and walkway will be installed to facilitate sheet flow dispersion.				
Select the BMPs you will use:				
C102 Buffer Zone C103 High Visibility Fence C231 Brush Barrier				
C233 Silt Fence C234 Vegetated Strip				

### Minimum Requirement #5 (On-Site Stormwater Management)

The following tables summarize infeasibility criteria that can be used to justify not using various on-site stormwater management best management practices (BMPs) for consideration for Minimum Requirement #5. This information is also included under the detailed descriptions of each BMP in the 2014 Stormwater Management Manual for Western Washington (Stormwater Manual), but is provided here in this worksheet for additional clarity and efficiency. Where any inconsistencies or lack of clarity exists, the requirements in the main text of the Stormwater Manual shall be applied. If a project is limited by one or more of the infeasibility criteria specified below, but an applicant is interested in implementing a specific BMP, a functionally equivalent design may be submitted to the City for review and approval. Evaluate the feasibility of the BMPs in priority order based on List #1 or #2 (Small Project Stormwater Requirements Tip Sheet and Stormwater Manual). Select the first BMP that is considered feasible for each surface type. Document the infeasibility (narrative description and rationale) for each BMP that was not selected. Only one infeasibility criterion needs to be selected for a BMP before evaluating the next BMP on the list. Attach additional pages for supporting information if necessary.

Note: If your project discharges directly to Lake Washington (flow control exempt) or a downstream analysis confirms that the downstream system is free of capacity constraints for a minimum of ¼ mile and a maximum of 1 mile, then you do not need to complete this worksheet, but should still refer to the infeasibility criteria when selecting BMPs.

	Lawn and Landscaped Areas	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
Post-construction Soil Quality and Depth List #1 and #2	Siting and design criteria provided in BMP T5.13 (Stormwater Manual Volume V, Section 5.3) cannot be achieved.  Lawn and landscape area is on till slopes greater than 33 percent.	
	Roofs	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
	Site setbacks and design criteria provided in BMP T5.30 (Stormwater Manual Volume V, Section 5.3) cannot be achieved.	
Full Dispersion	A 65 to 10 ratio of forested or native vegetation area to impervious area cannot be achieved.	
List #1 and #2	A minimum forested or native vegetation flowpath length of 100 feet (25 feet for sheet flow from a non-native pervious surface) cannot be achieved.	
Downspout Full	Evaluation of infiltration is not required per the Infiltration Infeasibility Map due to steep slopes, erosion hazards, or landslide hazards.	
Infiltration List #1 and #2	Site setbacks and design criteria provided in BMP T5.10A (Stormwater Manual Volume III, Section 3.1.1) cannot be achieved.	
	The lot(s) or site does not have out-wash or loam soils.	
	There is not at least 3 feet or more of permeable soil from the proposed final grade to the seasonal high groundwater table or other impermeable layer.	
	There is not at least 1 foot or more of permeable soil from the proposed bottom of the infiltration system to the seasonal high groundwater table or other impermeable layer.	

	Roofs (cont.)	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
	Note: Criteria with setback distances are as measured from the bottom edge of the bioretention soil mix.	
	Citation of any of the following infeasibility criteria must be based on an evaluation of site-specific conditions and a written recommendation from an appropriate licensed professional (e.g., engineer, geologist, hydrogeologist):	
	Where professional geotechnical evaluation recommends infiltration not be used due to reasonable concerns about erosion, slope failure, or down-gradient flooding.	
	Within an area whose ground water drains into an erosion hazard, or landslide hazard area.	
Bioretention or Rain Gardens	Where the only area available for siting would threaten the safety or reliability of pre-existing underground utilities, pre-existing underground storage tanks, pre-existing structures, or pre-existing road or parking lot surfaces.	
List #1 (both) and List #2 (bioretention only)	Where the only area available for siting does not allow for a safe overflow pathway to stormwater drainage system or private storm sewer system.	
	Where there is a lack of usable space for bioretention areas at redevelopment sites, or where there is insufficient space within the existing public right-of-way on public road projects.	
	Where infiltrating water would threaten existing below grade basements.	
	Where infiltrating water would threaten shoreline structures such as bulkheads.	
	The following criteria can be cited as reasons for infeasibility without further justification (though some require professional services to make the observation):	
	Evaluation of infiltration is not required per the Infiltration Infeasibility Map due to steep slopes, erosion hazards, or landslide hazards	
	Within setback provided for BMP T7.30 ( <b>Stormwater Manual</b> Volume V, Section 7.4)	
	Where they are not compatible with surrounding drainage system as determined by the city (e.g., project drains to an existing stormwater collection system whose elevation or location precludes connection to a properly functioning bioretention area).	

Infeasibility Description and Rationale for Each BMP Not Selected In further justification (though some require professional services to make the observation):    Where land for bioretention is within an erosion hazard, or landslide hazard area (as defined by MICC 19.07.060).    Where the site cannot be reasonably designed to locate bioretention areas on slopes less than 8 percent.    Within 50 feet from the top of slopes that are greater than 20 percent and over 10 feet of vertical relief.    For properties with known soil or groundwater contamination (typically federal Superfund sites or state cleanup sites under the Model Toxics Control Act (MTCA)):    Where groundwater modeling indicates infiltration will likely increase or change the direction of the migration of pollutants in the groundwater.    Wherever surface soils have been found to be contaminated unless those soils are removed within 10 horizontal feet from the infiltration area.    Any area where these facilities are prohibited by an approved cleanup plan under the state MTCA or Federal Superfund Law, or an environmental covenant under Chapter 64.70 RCW.    Within 100 feet of a closed or active landfill.    Within 100 feet of an inderground storage tank and connecting underground pipes when the capacity of the tank and pipe system is 1,100 gallons or less. As used in these criteria, an underground storage tank means any tank used to store petroleum products, chemicals, or liquid hazardous wastes of which 10 percent or more of the storage volume (including volume in the connecting piping system) is beneath the ground surface.
further justification (though some require professional services to make the observation):    Where land for bioretention is within an erosion hazard, or landslide hazard area (as defined by MICC 19.07.060).    Where the site cannot be reasonably designed to locate bioretention areas on slopes less than 8 percent.    Within 50 feet from the top of slopes that are greater than 20 percent and over 10 feet of vertical relief.    For properties with known soil or groundwater contamination (typically federal Superfund sites or state cleanup sites under the Model Toxics Control Act [MTCA]):    Within 100 feet of an area known to have deep soil contamination.    Where groundwater modeling indicates infiltration will likely increase or change the direction of the migration of pollutants in the groundwater.    Wherever surface soils have been found to be contaminated unless those soils are removed within 10 horizontal feet from the infiltration area.    Any area where these facilities are prohibited by an approved cleanup plan under the state MTCA or Federal Superfund Law, or an environmental covenant under Chapter 64.70 RCW.    Within 100 feet of a closed or active landfill.    Within 10 feet of an underground storage tank and connecting underground pipes when the capacity of the tank and pipe system is 1,100 gallons or less. As used in these criteria, an underground storage tank means any tank used to store petroleum products, chemicals, or liquid hazardous wastes of which 10 percent or more of the storage volume (including volume in the connecting piping)
Within 100 feet of an underground storage tank and connecting underground pipes when the capacity of the tank and pipe system is greater than 1,100 gallons.

	Roofs (cont.)	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
Bioretention or Rain Gardens (cont.)	The following criteria can be cited as reasons for infeasibility without further justification (though some require professional services to make the observation):  Where field testing indicates potential bioretention/rain garden sites have a measured (a.k.a., initial) native soil saturated hydraulic conductivity less than 0.30 inches per hour. A small-scale or large-scale PIT in accordance with <b>Stormwater Manual</b> Volume III, Section 3.3.6 (or an alternative small scale test specified by the City) shall be used to demonstrate infeasibility of bioretention areas. If the measured native soil infiltration rate is less than 0.30 in/hour, bioretention/rain garden BMPs are not required to be evaluated as an option in List #1 or List #2. In these slow draining soils, a bioretention area with an underdrain may be used to treat pollution-generating surfaces to help meet Minimum Requirement #6, Runoff Treatment. If the underdrain is elevated within a base course of gravel, it will also provide some modest flow reduction benefit that will help achieve Minimum Requirement #7.  Where the minimum vertical separation of 3 feet to the seasonal high groundwater elevation or other impermeable layer would not be achieved below bioretention that would serve a drainage area that exceeds the following thresholds (and cannot reasonably be broken down into amounts smaller than indicated):  o 5,000 square feet of pollution-generating impervious surface (PGIS)  o 10,000 square feet of impervious area  o 0.75 acres of lawn and landscape.  Where the minimum vertical separation of 1 foot to the seasonal high groundwater or other impermeable layer would not be achieved below bioretention that would serve a drainage area less than the above thresholds.  Within 100 feet of a drinking water well, or a spring used for drinking water supply.  Within 10 feet of small on-site sewage disposal drainfield, including reserve areas, and grey water reuse systems. For setbacks from a "large on-site sewage disposal system," see Chapter 246-272B WAC.	BMP Not Selected

	Roofs (cont.)	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
Downspout Dispersion Systems List #1 and #2	Site setbacks and design criteria provided in BMP T5.10B (Stormwater Manual Volume III, Section 3.1.2) cannot be achieved.  For splash blocks, a vegetated flowpath at least 50 feet in length from the downspout to the downstream property line, structure, stream, wetland, slope over 15 percent, or other impervious surface is not feasible.	
	For trenches, a vegetated flowpath of at least 25 feet in between the outlet of the trench and any property line, structure, stream, wetland, or impervious surface is not feasible. A vegetated flowpath of at least 50 feet between the outlet of the trench and any slope steeper than 15 percent is not feasible.	
	Evaluation of infiltration is not required per the Infiltration Infeasibility Map due to steep slopes, erosion hazards, or landslide hazards	
Perforated Stub-Out Connections List #1 and #2	For sites with septic systems, the only location available for the perforated portion of the pipe is located up-gradient of the drainfield primary and reserve areas. This requirement can be waived if site topography will clearly prohibit flows from intersecting the drainfield or where site conditions (soil permeability, distance between systems, etc.) indicate that this is unnecessary.	
	Site setbacks and design criteria provided in BMP T5.10C (Stormwater Manual Volume III, Section 3.1.3) cannot be achieved.	
	There is not at least 1 foot of permeable soil from the proposed bottom (final grade) of the perforated stub-out connection trench to the highest estimated groundwater table or other impermeable layer.	
	The only location available for the perforated stub-out connection is under impervious or heavily compacted soils.	
On-site Detention List #1 and #2	Project discharges directly to Lake Washington.  Findings from a 1/4 mile downstream analysis confirm that the downstream system is free of capacity constraints.  Site setbacks and design criteria provided in the <b>Stormwater Manual</b> (Volume III, Section 3.2.2) cannot be achieved.	

	Other Hard Surfaces	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
Full Dispersion List #1 and #2	Site setbacks and design criteria provided in BMP T5.30 (Stormwater Manual Volume V, Section 5.3) cannot be achieved.  A 65 to 10 ratio of forested or native vegetation area to impervious area cannot be achieved.  A minimum forested or native vegetation flowpath length of 100 feet (25 feet for sheet flow from a non-native pervious surface) cannot be achieved.	
Permeable Pavement List #1 and #2	Citation of any of the following infeasibility criteria must be based on an evaluation of site-specific conditions and a written recommendation from an appropriate licensed professional (e.g., engineer, geologist, hydrogeologist):  Where professional geotechnical evaluation recommends infiltration not be used due to reasonable concerns about erosion, slope failure, or downgradient flooding.  Within an area whose ground water drains into an erosion hazard, or landslide hazard area.  Where infiltrating and ponded water below the new permeable pavement area would compromise adjacent impervious pavements.  Where infiltrating water below a new permeable pavement area would threaten existing below grade basements.  Where infiltrating water would threaten shoreline structures such as bulkheads.  Down slope of steep, erosion prone areas that are likely to deliver sediment.  Where fill soils are used that can become unstable when saturated.  Excessively steep slopes where water within the aggregate base layer or at the subgrade surface cannot be controlled by detention structures and may cause erosion and structural failure, or where surface runoff velocities may preclude adequate infiltration at the pavement surface.  Where permeable pavements cannot provide sufficient strength to support heavy loads at industrial facilities such as ports.  Where installation of permeable pavement would threaten the safety or reliability of pre-existing underground utilities, pre-existing underground storage tanks, or pre-existing road subgrades.	

	Other Hard Surfaces (cont.)	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
	The following criteria can be cited as reasons for infeasibility without further justification (though some require professional services to make the observation):	
	Evaluation of infiltration is not required per the Infiltration Infeasibility Map due to steep slopes, erosion hazards, or landslide hazards	
	Within an area designated as an erosion hazard, or landslide hazard.	
	Within 50 feet from the top of slopes that are greater than 20 percent.	
	For properties with known soil or groundwater contamination (typically federal Superfund sites or state cleanup sites under MTCA):	
	<ul> <li>Within 100 feet of an area known to have deep soil contamination.</li> </ul>	
Permeable Pavement (cont.)	<ul> <li>Where groundwater modeling indicates infiltration will likely increase or change the direction of the migration of pollutants in the groundwater.</li> </ul>	
(cont.)	<ul> <li>Wherever surface soils have been found to be contaminated unless those soils are removed within 10 horizontal feet from the infiltration area.</li> </ul>	
	<ul> <li>Any area where these facilities are prohibited by an approved cleanup plan under the state MTCA or Federal Superfund Law, or an environmental covenant under Chapter 64.70 RCW.</li> </ul>	
	Within 100 feet of a closed or active landfill.	
	Within 100 feet of a drinking water well, or a spring used for drinking water supply, if the pavement is a pollution-generating surface.	
	Within 10 feet of a small on-site sewage disposal drainfield, including reserve areas, and grey water reuse systems. For setbacks from a "large on-site sewage disposal system," see Chapter 246-272B WAC.	
	Within 10 feet of any underground storage tank and connecting underground pipes, regardless of tank size. As used in these criteria, an underground storage tank means any tank used to store petroleum products, chemicals, or liquid hazardous wastes of which 10 percent or more of the storage volume (including volume in the connecting piping system) is beneath the ground surface.	
	At multi-level parking garages, and over culverts and bridges.	
	Where the site design cannot avoid putting pavement in areas likely to have long-term excessive sediment deposition after construction (e.g., construction and landscaping material yards).	

Other Hard Surfaces (cont.)		
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
Permeable Pavement (cont.)	The following criteria can be cited as reasons for infeasibility without further justification (though some require professional services to make the observation):  Where the site cannot reasonably be designed to have:  • Porous asphalt surface < 5% slope  • Pervious concrete surface < 10% slope  • Permeable interlocking concrete pavement surface < 12% slope  • Grid systems < 6-12% slope (check with manufacturer and local supplier to confirm maximum slope)  Where the subgrade soils below a pollution-generating permeable pavement (e.g., road or parking lot) do not meet the soil suitability criteria for providing treatment. See soil suitability criteria for treatment in the <b>Stormwater Manual</b> Volume III, Section 3.3.7. Note: In these instances, the city may approve installation of a 6 inch sand filter layer meeting city specifications for treatment as a condition of construction.  Where underlying soils are unsuitable for supporting traffic loads when saturated. Soils meeting a California Bearing Ratio of 5 percent are considered suitable for residential access roads.  Where replacing existing impervious surfaces unless the existing surface is a non-pollution generating surface over an outwash soil with a saturated hydraulic conductivity of 4 inches per hour or greater.  Where appropriate field testing indicates soils have a measured (a.k.a., initial) subgrade soil saturated hydraulic conductivity less than 0.3 inches per hour. Only small-scale PIT or large-scale PIT methods in accordance with Stormwater Manual Volume III, Section 3.3.6 (or an alternative small scale test specified by the City) shall be used to evaluate infeasibility of permeable pavement areas. (Note: In these instances, unless other infeasibility restrictions apply, roads and parking lots may be built with an underdrain, preferably elevated within the base course, if flow control benefits are desired.)  Roads that receive more than very low traffic volumes, and areas having more than very low truck traffic volumes are roads and other areas not	

	Other Hard Surfaces (cont.)	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
Permeable Pavement (cont.)	The following criteria can be cited as reasons for infeasibility without further justification (though some require professional services to make the observation):  At sites defined as "high-use sites" (refer to the Glossary in the Stormwater Manual Volume I).  In areas with "industrial activity" as identified in 40 CFR 122.26(b)(14).  Where the risk of concentrated pollutant spills is more likely such as gas stations, truck stops, and industrial chemical storage sites.  Where routine, heavy applications of sand occur in frequent snow	
	zones to maintain traction during weeks of snow and ice accumulation.  Where the seasonal high groundwater or an underlying impermeable/ low permeable layer would create saturated conditions within 1 foot of the bottom of the lowest gravel base course.	
Bioretention or Rain Gardens List #1 (both) and List #2 (bioretention only)	Note: Criteria with setback distances are as measured from the bottom edge of the bioretention soil mix.  Citation of any of the following infeasibility criteria must be based on an evaluation of site-specific conditions and a written recommendation from an appropriate licensed professional (e.g., engineer, geologist, hydrogeologist):  Where professional geotechnical evaluation recommends infiltration not be used due to reasonable concerns about erosion, slope failure, or down-gradient flooding.  Within an area whose ground water drains into an erosion hazard, or landslide hazard area.  Where the only area available for siting would threaten the safety or reliability of pre-existing underground utilities, pre-existing underground storage tanks, pre-existing structures, or pre-existing road or parking lot surfaces.  Where the only area available for siting does not allow for a safe overflow pathway to stormwater drainage system or private storm sewer system.  Where there is a lack of usable space for bioretention areas at redevelopment sites, or where there is insufficient space within the existing public right-of-way on public road projects.  Where infiltrating water would threaten existing below grade basements.  Where infiltrating water would threaten shoreline structures such as bulkheads.	

	Other Hard Surfaces (cont.)	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
Applicable	Infeasibility Criteria  The following criteria can be cited as reasons for infeasibility without further justification (though some require professional services to make the observation):  Where evaluation of infiltration is not required per the Infiltration Infeasibility Map due to steep slopes, erosion hazards, or landslide hazards.  Within setback provided for BMP T7.30 (Stormwater Manual Volume V, Section 7.4)  Where they are not compatible with surrounding drainage system as determined by the city (e.g., project drains to an existing stormwater collection system whose elevation or location precludes connection to a properly functioning bioretention area).  Where land for bioretention is within an erosion hazard, or landslide hazard area (as defined by MICC 19.07.060).  Where the site cannot be reasonably designed to locate bioretention areas on slopes less than 8 percent.  Within 50 feet from the top of slopes that are greater than 20 percent and over 10 feet of vertical relief.  For properties with known soil or groundwater contamination (typically federal Superfund sites or state cleanup sites under the Model Toxics Control Act [MTCA]):  Within 100 feet of an area known to have deep soil contamination.  Where groundwater modeling indicates infiltration will likely increase or change the direction of the migration of pollutants in the groundwater.  Wherever surface soils have been found to be contaminated unless those soils are removed within 10 horizontal feet from the infiltration area.  Any area where these facilities are prohibited by an approved cleanup plan under the state MTCA or Federal Superfund Law, or an environmental covenant under Chapter 64.70 RCW.  Within 100 feet of a closed or active landfill.  Within 10 feet of an underground storage tank and connecting underground pipes when the capacity of the tank and pipe system is 1,100 gallons or less. As used in these criteria, an underground storage	and Rationale for Each
	tank means any tank used to store petroleum products, chemicals, or liquid hazardous wastes of which 10 percent or more of the storage volume (including volume in the connecting piping system) is beneath the ground surface.	

	Other Hard Surfaces (cont.)	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
Applicable		and Rationale for Each
	Where the minimum vertical separation of 1 foot to the seasonal high groundwater or other impermeable layer would not be achieved below bioretention that would serve a drainage area less than the above thresholds	
	Within 100 feet of a drinking water well, or a spring used for drinking water supply.	
	Within 10 feet of small on-site sewage disposal drainfield, including reserve areas, and grey water reuse systems. For setbacks from a "large on-site sewage disposal system," see Chapter 246-272B WAC.	

	Other Hard Surfaces (cont.)	
BMP and Applicable Lists	Infeasibility Criteria	Infeasibility Description and Rationale for Each BMP Not Selected
Sheet Flow Dispersion List #1 and #2	Site setbacks and design criteria provided in BMP T5.12 (Stormwater Manual Volume V, Section 5.3) cannot be achieved.  Positive drainage for sheet flow runoff cannot be achieved.  Area to be dispersed (e.g., driveway, patio) cannot be graded to have less than a 15 percent slope.  For flat to moderately sloped areas, at least a 10 foot-wide vegetation buffer for dispersion of the adjacent 20 feet of contributing surface cannot be achieved. For variably sloped areas, at least a 25 foot vegetated flowpath between berms cannot be achieved.	
Concentrated Flow Dispersion List #1 and #2	Site setbacks and design criteria provided in BMP T5.11 (Stormwater Manual Volume V, Section 5.3) cannot be achieved.  A minimum 3 foot length of rock pad and 50 foot flowpath OR a dispersion trench and 25 foot flowpath for every 700 square feet of drainage area followed with applicable setbacks cannot be achieved.  More than 700 square feet drainage area drains to any dispersion device.	
On-site Detention List #1 and #2	Project discharges directly to Lake Washington.  Findings from a 1/4 mile downstream analysis confirm that the downstream system is free of capacity constraints.  Site setbacks and design criteria provided in the Stormwater Manual (Volume III, Section 3.2.2) cannot be achieved.	

Attachments Required (Check off required items that are attached)
Site Plan showing, to scale:
Areas of undisturbed native vegetation (no amendment required)
New planting beds (amendment required)
New turf areas (amendment required)
Type of soil improvement proposed for each area
Soil test results (required if proposing custom amendment rates)
Product test results for proposed amendments

# **Total Amendment / Topsoil / Mulch for All Areas**

Calculate the quantities needed for the entire site based on all of the areas identified on the Site Plan and the calculations on the following page(s):

Product	Total Quantity (CY)	Test Results
Product #1:	CY	% organic matter C:N ratio  "Stable"? yes no
Product #2:	CY	% organic matter C:N ratio  "Stable"? yes no
Product #3:	CY	% organic matter C:N ratio  "Stable"? yes no

Amendment / T	opsoil / Mulch by Area	
All disturbed areas	on your Site Plan, provide the following information:  (should match identified Area # on Site Plan)	(Use additional sheets if necessary)
Planting type:	Turf Undisturbed native vegetation Planting Beds Other:	
Pre-Approved A	mendment Method	
Amend with compost	Turf: $\underline{5774}$ SF x 5.4 CY $\div$ 1,000 SF = $\underline{31.18}$ CY  Planting beds: $\underline{0}$ SF x 9.3 CY $\div$ 1,000 SF = $\underline{0}$ CY  Total Quantity = $\underline{31.18}$ CY  Scarification depth: 8 inches	Product:
Stockpile and amend	Turf: SF x 5.4 CY ÷ 1,000 SF = CY  Planting beds: SF x 9.3 CY ÷ 1,000 SF= CY  Total Quantity = CY  Scarification depth: 8 inches	Product:
Topsoil import	Turf: SF x 18.6 CY÷1,000 SF = CY Planting beds: SF x 18.6 CY ÷ 1,000 SF= CY Total Quantity = CY Scarification depth: 6 inches	Product:
<b>Custom Amendr</b>	nent	
Amend with compost	Attach information on bulk density, percent organic matter, moisture content, C:N ratio, and heavy metals analysis to support custom amendment rate and scarification depth.  Total Quantity =CY  Scarification depth:inches	Product:
Stockpile and amend	Attach information on bulk density, percent organic matter, moisture content, C:N ratio, and heavy metals analysis to support custom amendment rate and scarification depth.  Total Quantity =CY  Scarification depth:inches	Product:
Mulch	·	·
Amend with compost	Planting beds: SF x 12.4 CY ÷ 1,000 SF= CY Total Quantity = CY	Product:
Stockpile and amend	Planting beds: SF x 12.4 CY ÷ 1,000 SF= CY Total Quantity = CY	Product:
Topsoil import	Planting beds: SF x 12.4 CY ÷ 1,000 SF= CY	Product:

## **Project Engineer's Certification for Section B**

For Stormwater Site Plans with engineered elements, the Construction SWPPP is stamped by a professional engineer licensed in the State of Washington in civil engineering.

If required, attach a page with the project engineer's seal with the following statement:			
SE 20th St SFR			
"I hereby state that this Construction Stormwater Pollution Prevention Plan for			
has been prepared by me or under my supervision and meets the standard of care and expertise which is usual an			
customary in this community for professional engineers. I understand that the City of Mercer Island does not and will			
not assume liability for the sufficiency, suitability, or performance of Construction SWPPP BMPs prepared by me."			
Applicant Signature for Full Stormwater Package (Sections A through D)			
I have read and completed the Stormwater Submittal Package and know the information provided to be true and correct.			
Matthew J. Haringa, P.E. Print Applicant Name:			
Applicant Name.			
Applicant Signature: Matter 5/28/21			