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Skagit County Auditor

Permanent Stormwater Control Facilities Operation and Maintenance (O&M) Manual

for:

GETAWAY SKAGIT

Located at:

**21700 State Route 9
Mount Vernon, WA 98274**

Prepared for:

**Getaway Mount Vernon LLC
c/o Jaquelyn Baines
147 Prince Street
Brooklyn, NY 11201
(775)-901-0970**

Prepared by:

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June 22, 2022

**Grantor –
Grantee –
Parcel Number –
Assessor Number –
Sec/Twp/Rng –**

**Getaway Mount Vernon LLC
Skagit County Public
P18166
330519-3-001-0032
Section 19, Township 33N, Range 05E**

**GETAWAY SKAGIT VALLEY-UPPER 9 RV PADS
O & M MANUAL**

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Getaway-Skagit Valley, Upper 9 O & M MANUAL

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1. INTRODUCTION

This Operations and Maintenance Manual (Manual) has been prepared for use by the Owners and maintenance person for the operation and maintenance of stormwater facilities on the Upper 9 RV pads at Getaway Skagit Valley. The Manual has been prepared in accordance with the 2012 Stormwater Management Manual for Western Washington (SWMMWW 2012), as amended in 2014, maintenance Standards for Drainage Facilities (Volume V, Section 4.6). The record drawings should be consulted during inspection, maintenance, and repair activities, a copy of which is available at the Skagit County Planning & Development Services AND in **APPENDIX A** of this manual.

The intent of this stormwater maintenance manual is to provide the owner/property manager of Getaway Skagit Valley assistance in performing proper maintenance of their stormwater facilities. Private property owners are responsible for maintaining their own stormwater management structures. The Department of Ecology and Skagit County Planning & development Services suggest regular, routine inspections and maintenance of the system to ensure the facilities perform properly.

Inspection and maintenance requirements may change in the future and this manual does not exempt the responsible party from providing adequate maintenance of all facilities.

1.1. Drainage Narrative

The new 9 pad area of the facility is located higher than the remainder of the units in what was previously primitive camping offerings. The site has been graded for use by Getaway's mobile small cabins and for access. Overall, the site drains west and east, either side of the upper 20ft wide access road.

The access roads handle stormwater runoff by sheet flow dispersion. Gavel berms across the drives direct water towards dispersion trenches that evenly disperse to 25' to 50' long vegetated flow paths.

The roof from each Cabin flows towards the front, where the water splashes down to the gravel pad. From the gravel pad, the water disperses out through 50LF of a maintained vegetated flow path.

The driveways to each RV pad are sloped to direct the sheet flows towards a continuous 1-foot-wide dispersion strip. From the strip, the stormwater sheet flows through a filter strip (min 25ft long vegetated flow path).

1.2. Facility Maintenance Responsibility

The Property Ownership is responsible for the maintenance of the storm water facilities and devices that direct water to those facilities, including the dispersion strips, gravel berms, dispersion trenches, filter strips, and the plan-denoted vegetative flow path lengths.

1.3. Facility Description

The following describes the drainage system components and functions in use with the 9 Pad addition.

Dispersion Trench:

A dispersion trench is a rock filled trench with a notched grade board used to prevent erosion and disperse drainage into vegetated areas which helps prevent erosion that would occur at a typical pipe outfall.

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Filter Strip

A filter strip is a basic treatment facility, typically flat with no side slopes. Contaminated water is distributed as sheet flow across the inlet width and treatment is by passage of this water over the surface and through grass.

2. OWNERS MAINTENANCE REQUIREMENTS

The following are general guidelines for maintenance of the stormwater facilities. Included are excerpts from the Stormwater Manual-referenced *Western Washington Low Impact Development Operation and Maintenance* guidance document that describes each LID, its maintenance schedule, required time, and tools, with references to the maintenance standards from the SWMMWW Manual Vol V, Chapter 4.6. These guidelines are included in Appendices.

General:

1. Proper maintenance of private stormwater facilities is necessary to ensure they serve their intended function.
2. Drainage systems shall be inspected at least annually. Skagit County does not yet have an annual reporting requirement, but does reserve the right to inspect if conditions indicate that proper maintenance is not occurring.
3. Any deterioration threatening the structural integrity of the facilities shall be immediately repaired. These include such things as replacement of grates and lids, dispersion trench rock, dispersion strip rock, or plantings.
4. Trash debris shall be regularly removed from strips and inlets to maintain adequate drainage

2.1. Description

The runoff from the RV roofs flow onto the gravel splash pad below and disperse through vegetation to the south. The driveways are graded to sheet flowthrough dispersion strips and into filter strip that have grasses planted over amended or native, uncompacted soils. The access road sheet flows till intercepted by a rock berm, before being directed into a gravel dispersion trench.

2.2. Operation

Regular inspections and maintenance will insure proper operation of the stormwater conveyance and dispersion system for many years.

2.3. Maintenance

Sheet flow and Concentrated Dispersion Systems

Dispersion systems attenuates peak flows by slowing the runoff entering the conveyance system, allowing some infiltration, and providing some water quality benefits. **Appendix B** includes the maintenance considerations, procedures, and frequency for these dispersion systems, including the dispersion trenches.

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Compost Amended Soils

Any areas that were disturbed and NOT covered with an impervious surface were amended to return the soil to a pre-disturbed state to aid filtration and infiltration. These areas include the filtration strip vegetated areas and flow paths downstream of the RV pads. **Appendix C** includes guidance on the maintenance of these areas including frequency and time/material required.

3. FINANCIAL LIABILITY, MAINTENANCE, & REPORTING

The on-site permanent stormwater facilities shall be maintained in perpetuity in a manner that allows them to function as originally designed. The owner of the property or its designated representative, is solely responsible for the inspection, maintenance, repair and replacement of all permanent stormwater facilities located on site and any and all costs associated therewith. Skagit County Planning & Development is under no obligation to maintain or repair permanent stormwater facilities located on this site.

While there is currently no requirement for annual reporting to Skagit County, the owner or its designated representative shall document these regular (annual) maintenance and inspections of the permanent stormwater facilities. The report shall include any remedial actions taken, how the actions were completed, who performed them, any problems encountered, and any required follow-up actions such as maintenance, repair or replacement. Annual report and other maintenance records shall be maintained on-site and available to the County upon request.

Whenever there is cause to believe that a violation of this Chapter has been or is being committed, The County may inspect per SCC Chapter 14.44 Enforcement/Penalties.

4. SOURCE CONTROL BEST MANAGEMENT PRACTICES

Source Control Best Management Practices address multiple situations that may occur at the proposed development. Source control of pollution can prevent damage to the onsite stormwater system and its components. Source Control Best Management Practices (as found in the 2014 Stormwater manual, Chapter IV, can be found in the attached Appendix D, and as listed below:

- Landscaping and Lawn/Vegetation Management (S411 BMP)
- Maintenance of Stormwater Drainage and Treatment Systems (S417 BMP)

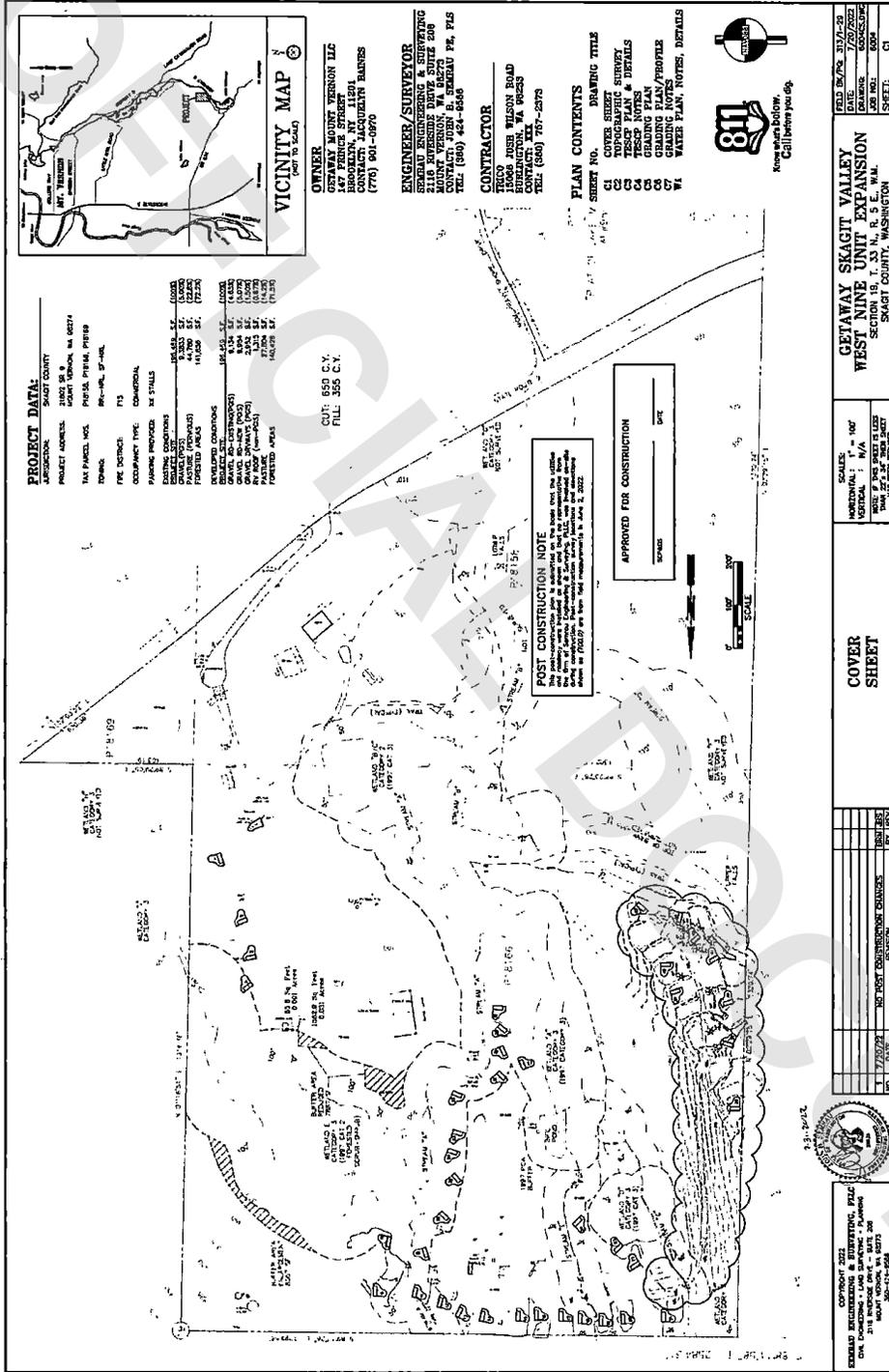


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**GETAWAY SKAGIT VALLEY-UPPER 9 RV PADS
O & M MANUAL**

**APPENDIX A
DESIGN PLANS**



PROJECT DATA:

APPROVED FOR CONSTRUCTION

DATE: 7/20/22

SCALE: 1" = 40'

HORIZONTAL: N/A

VERTICAL: N/A

NOT FOR CONSTRUCTION PURPOSES

NO POST CONSTRUCTION CHANGE

DATE: 7/20/22

BY: [Signature]

CUT: 650 C.Y.
 FILL: 355 C.Y.

POST CONSTRUCTION NOTE
 The information shown is based on the data provided by the client. The engineer is not responsible for the accuracy of the data provided. The engineer is not responsible for the accuracy of the data provided. The engineer is not responsible for the accuracy of the data provided.

APPROVED FOR CONSTRUCTION
 [Signature]

PLAN CONTENTS

1. SHEET NO. DRAWING TITLE

2. COVER SHEET

3. TOPOGRAPHIC SURVEY

4. TIE-IN PLAN & DETAILS

5. TIE-IN PLAN & DETAILS

6. GRADING PLAN

7. GRADING PLAN/PROFILE

8. WATER PLAN, NOTES, DETAILS

OWNER
 WEST VALLEY THERON LLC
 147 FRANK STREET
 BOSTON, MA 02111
 CONTACT: JUDITH H. BERNARD
 (781) 901-0970

ENGINEER/SURVEYOR
 SEMAN ENGINEERING & SURVEYING
 2110 SUPERIOR DRIVE SUITE 208
 FARMINGTON, MA 01401
 CONTACT: JOHN H. SEMAN PE, PLS
 TEL: (860) 424-8666

CONTRACTOR
 TRICO
 18008 JOSH WILSON ROAD
 CONTRACTOR, VA 90253
 CONTACT: [Name]
 TEL: (840) 767-2379

VICINITY MAP
 (NOT TO SCALE)

COVER SHEET

POST CONSTRUCTION NOTE

APPROVED FOR CONSTRUCTION

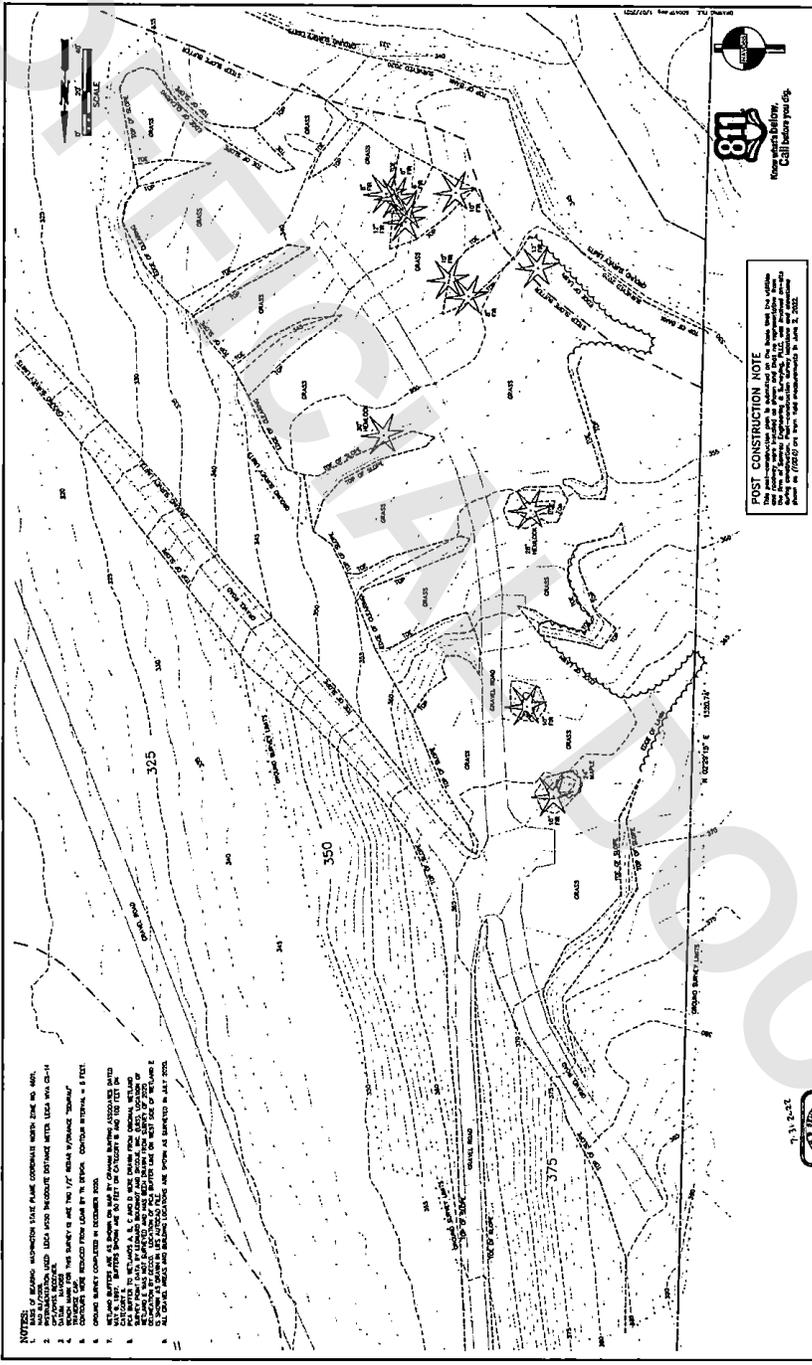
PLAN CONTENTS

OWNER

ENGINEER/SURVEYOR

CONTRACTOR

VICINITY MAP



- NOTES:**
1. THIS SURVEY IS A REVISION TO THE SURVEY OF THE STATE PLANE COORDINATE ZONE NO. 4607.
 2. ALL DISTANCES ARE IN METERS UNLESS OTHERWISE NOTED.
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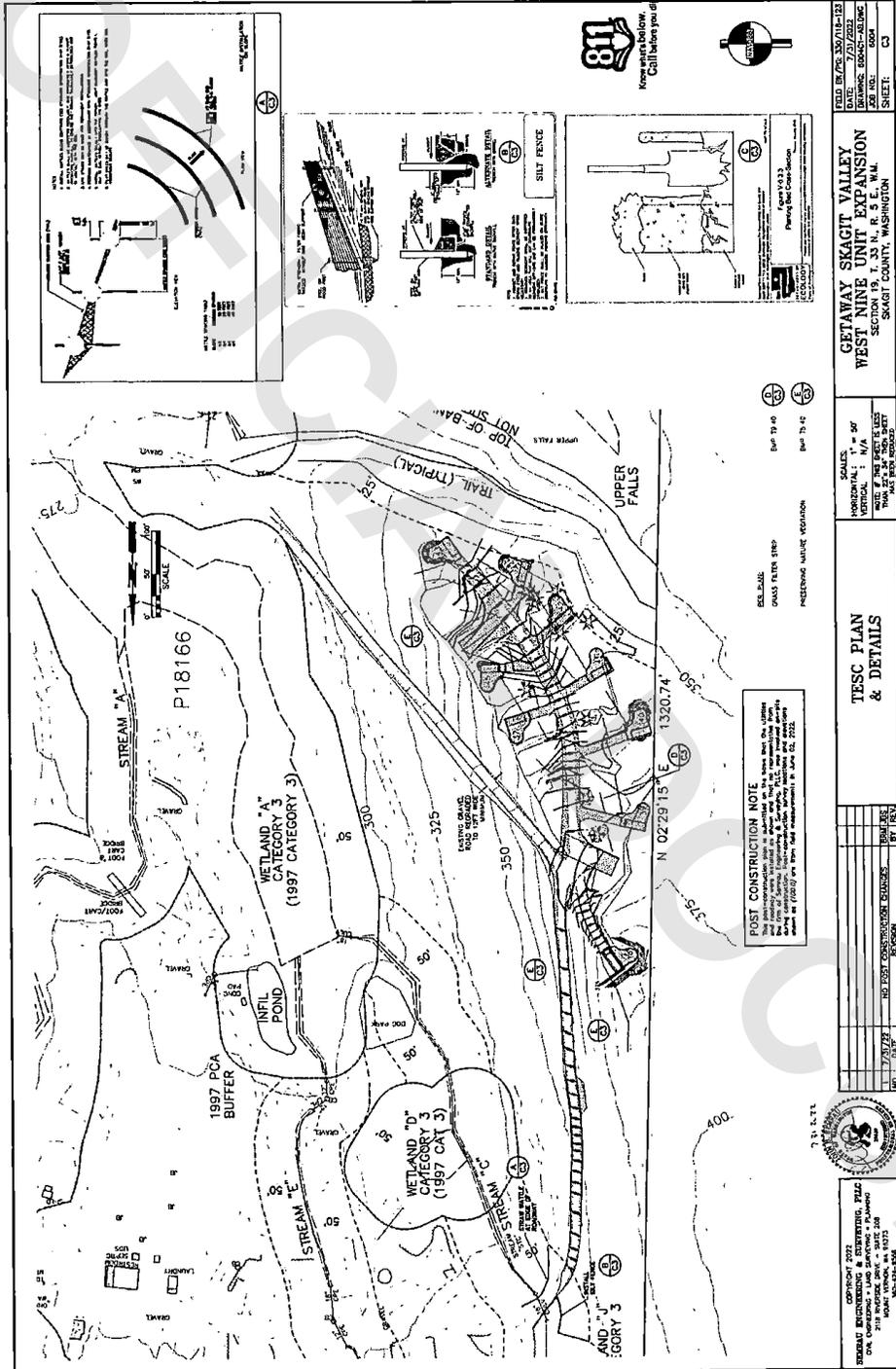
POST CONSTRUCTION NOTE
 The post-construction survey is a revision to the survey of the state plane coordinate zone no. 4607. The post-construction survey is a revision to the survey of the state plane coordinate zone no. 4607. The post-construction survey is a revision to the survey of the state plane coordinate zone no. 4607.



<p>GETAWAY SKAGIT VALLEY WEST NINE UNIT EXPANSION SECTION 18, T. 33 N., R. 5 E., W. 4 SKAGIT COUNTY, WASHINGTON</p>	
<p>SCALE: HORIZONTAL: 1" = 40' VERTICAL: 1" = 10'</p>	<p>DATE: 7/27/22 DRAWN BY: [Name] CHECKED BY: [Name]</p>
<p>PROJECT NO.: 202209080077</p>	<p>SHEET: 08 OF 08</p>



STATE OF WASHINGTON
 ENGINEER
 JOHN [Name]
 LICENSE NO. [Number]
 EXPIRES [Date]



POST CONSTRUCTION NOTE
 This site construction plan is submitted to the State Dept. of Ecology for review and approval. The plan is subject to the terms and conditions of the permit. The plan is subject to the terms and conditions of the permit. The plan is subject to the terms and conditions of the permit.

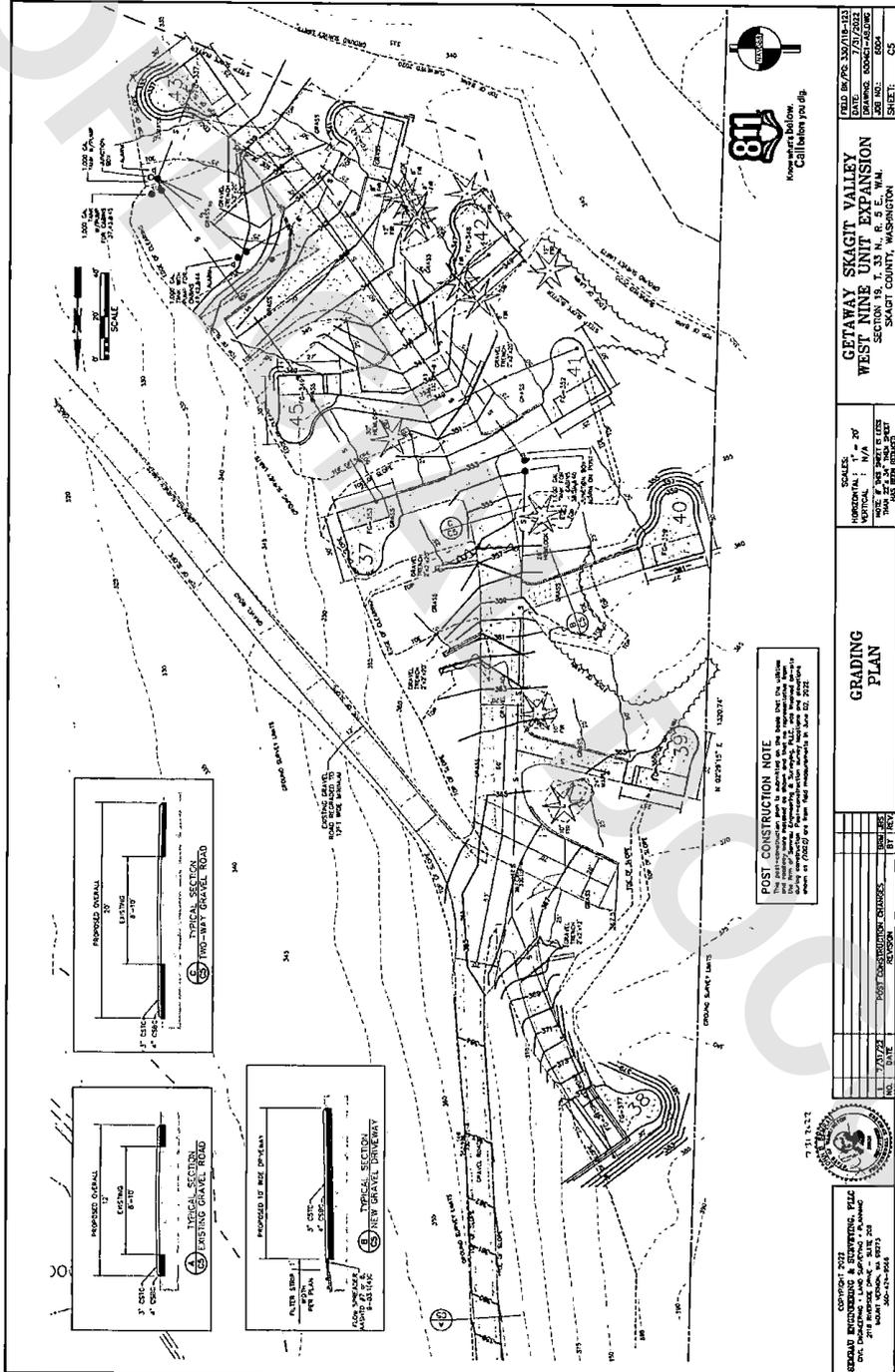
RELEASE
 GARY PETER STRO
 PRESIDENT, WAJAC REGION

SCALE
 HORIZONTAL: N/A
 VERTICAL: 1" = 50'
 UNLESS OTHERWISE NOTED

TESC PLAN & DETAILS

GETAWAY SKAGIT VALLEY WEST NINE UNIT EXPANSION
 SECTION 19, T. 33 N., R. 5 E., W. 1.
 SKAGIT COUNTY, WASHINGTON

FILE NO. PWS 2022/18-122	DATE: 09/08/2022
DRAWING: SEARCH-ALONG	DATE: 09/08/2022
SHEET: C3	DATE: 09/08/2022



FILED BY: PLS 330719-113
 DRAWING NO.: 22-0001
 SHEET: 05

**GETAWAY SKAGIT VALLEY
 WEST NINE UNIT EXPANSION**
 SECTION 19, T. 35 N., R. 9 E., W. 4
 SKAGIT COUNTY, WASHINGTON

SCALE: HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 10'
 DATE: 7/17/22
 BY: PLS

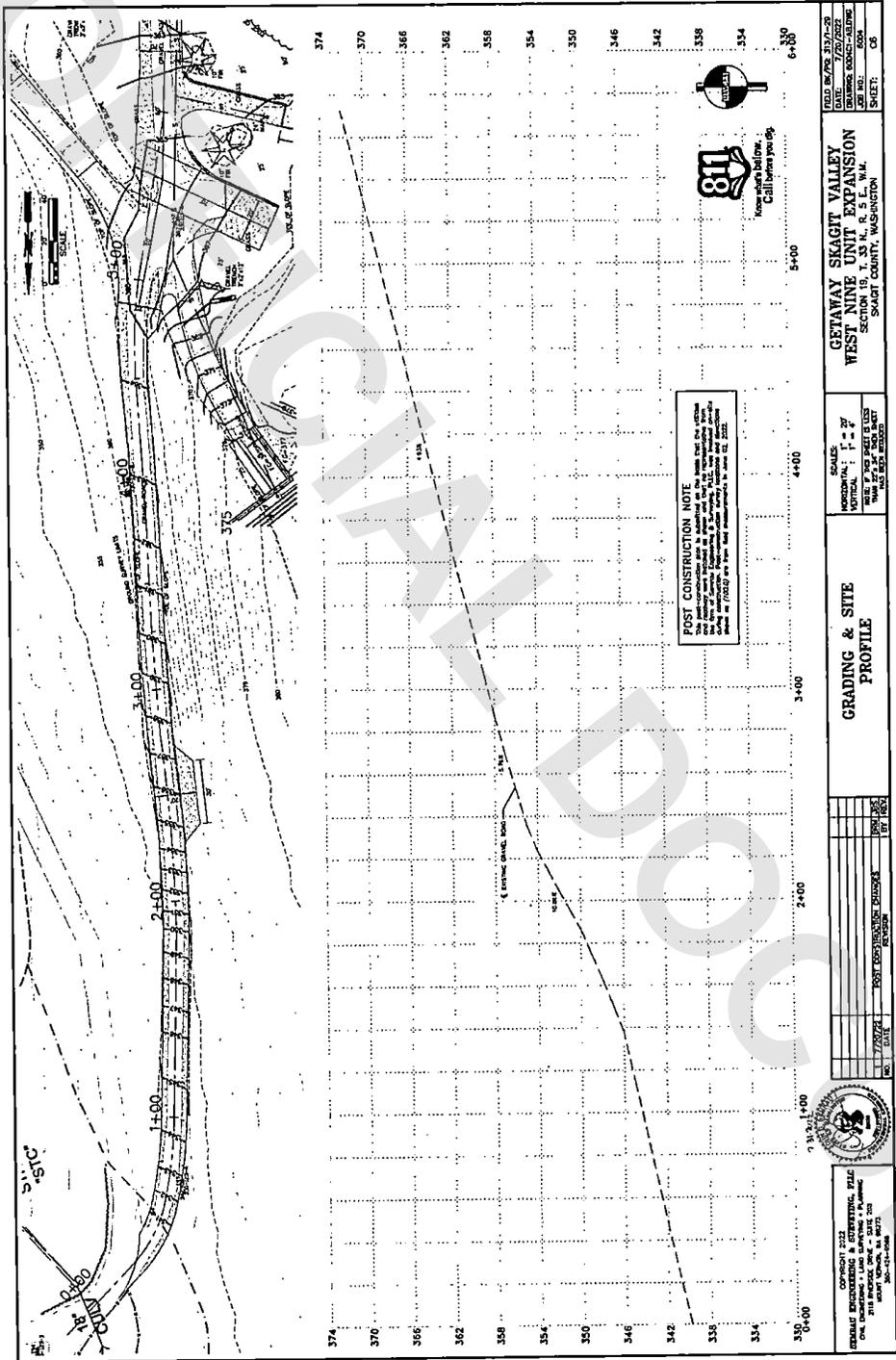
**GRADING
 PLAN**

NO.	DATE	DESCRIPTION OF CHANGES	BY



CONTRACT NO. 2021
 EDWARDS ENGINEERING & SURVEYING, PLLC
 ONE DIXIE DRIVE, SUITE 200
 BAINBRIDGE, WA 98001
 PHONE: (360) 833-8888
 WWW: EDWARDSENGINEERING.COM

POST CONSTRUCTION NOTE
 THE PROPOSED GRADING PLAN IS BASED ON THE EXISTING TOPOGRAPHY AND UTILITIES SHOWN ON THE PREVIOUS GRADING PLAN. THE PROPOSED GRADING PLAN IS SUBJECT TO THE APPROVAL OF THE LOCAL GOVERNMENT AND THE STATE OF WASHINGTON. THE PROPOSED GRADING PLAN IS NOT TO BE USED FOR CONSTRUCTION WITHOUT THE APPROVAL OF THE LOCAL GOVERNMENT AND THE STATE OF WASHINGTON.



UNOFFICIAL DOCUMENT

GENERAL/GRADING

1. ALL CONSTRUCTION SHALL BE ACCORDING TO THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODES (IBC) AND THE INTERNATIONAL MECHANICAL, ELECTRICAL, PLUMBING AND MECHANICAL (M.E.P.) CODES, AND THE INTERNATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED BY SUBSEQUENT REVIEWS.
2. LOCATIONS OF EXISTING UTILITIES SHALL BE DETERMINED AND NOTED ON THE GRADING PLAN. ALL UTILITIES SHALL BE PROTECTED AND NOT DAMAGED BY ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
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(ALSO SEE OTHER NOTES)

811
 Know what's below.
 Call before you dig.

POST CONSTRUCTION NOTE
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

GRADING NOTES

FIELD NO./P.S. 217/2-29
 DRAWING NO./CONTRACT NO. 217-2-29
 JOB NO. 217-2-29
 SHEET C7



DATE: 09/08/2022
 TIME: 02:24 PM
 PROJECT: GETAWAY SKAGIT VALLEY WEST NINE UNIT EXPANSION
 SHEET: C7

**GETAWAY SKAGIT VALLEY-UPPER 9 RV PADS
O & M MANUAL**

**APPENDIX B
MAINTENANCE
DISPERSION SYSTEMS**

Downspout, Sheet Flow, and Concentrated Dispersion Systems

Dispersion attenuates peak flows by slowing the runoff entering into the conveyance system, allowing some infiltration, and providing some water quality benefits. The following three types of dispersion systems are covered in this section:

- **Downspout dispersion systems:** Splash blocks or gravel-filled trenches, which serve to spread roof runoff over vegetated pervious areas.
- **Sheet flow dispersion systems:** Sheet flow dispersion is the simplest method of runoff control. This BMP can be used for any impervious or pervious surface that is graded to avoid concentrating flows. Because flows are already dispersed as they leave the surface, they need only traverse a narrow band of adjacent vegetation for effective attenuation and treatment.
- **Concentrated dispersion systems:** Dispersion of concentrated flows from driveways or other pavement through a vegetated pervious area.

Key Maintenance Considerations

The main components of dispersion systems are listed below with descriptions of their function and key maintenance considerations.

- **Splash block (downspout dispersion):** Splash blocks are used to spread stormwater runoff from a downspout drain over vegetated pervious area. A downspout extension may be included if the ground is fairly level, if the structure includes a basement, or if foundation drains are proposed.
- **Dispersion trench (downspout dispersion):** Gravel-filled trenches are also used to spread stormwater runoff from a downspout drain over a vegetated pervious area. Downspout drains are routed to a trench via a perforated or slotted pipe. The trench typically includes a notched grade board or other device to distribute flow equally along the length of the trench. This board must be maintained at a level grade to prevent concentrated flow. Downspout drains are directed to the trench via a storage sump that must be maintained to remove accumulated sediment.
- **Transition zone (sheet flow dispersion):** A 2-foot-wide transition zone is typically included to discourage channeling between the edge of the impervious surface (or building eaves) and the downslope vegetation. This transition zone may consist of an extension of subgrade material (crushed rock), modular pavement, drain rock, or other material.
- **Rock pad at discharge point (concentrated flow dispersion):** A rock pad must be maintained at any point that a concentrated flow enters a dispersion area.
- **Dispersal area:** Stormwater is dispersed to an area vegetated with well-established lawn or pasture, landscaping with well-established groundcover, or native vegetation with natural groundcover. The required vegetated flow path is 50 feet for splash

blocks and concentrated dispersion, 25 feet when using a dispersion trench and varies for sheet flow dispersion. The groundcover for the extent of the flow must be maintained to be dense enough to help disperse and infiltrate flows and to prevent erosion.

Key Operations to Preserve Facility Function

For dispersion practices to be effective, the dispersion area must remain covered with dense, well-established vegetation. Site uses should protect vegetation and avoid compaction.

Maintenance Standards and Procedures

Table 16 provides the recommended maintenance frequencies, standards, and procedures for dispersion system components.

Table 16. Maintenance Standards and Procedures for Downspout, Sheet Flow, and Concentrated Dispersion Systems.

Component	Recommended Frequency*		Condition When Maintenance is Needed (Standards)	Action Needed (Procedures)
	Inspection	Routine Maintenance		
Splash Block (Downspout Dispersion)				
Splash block	B		Water is being directed towards building structure	Reconfigure repair blocks to direct water away from building structure
	B		Water disrupts soil media	Reconfigure/ repair blocks
Transition Zone (Sheet Flow Dispersion)				
Transition zone	A		Adjacent soil erosion; uneven surface creating concentrated flow discharge; or less than 2 foot of width	Repair/replace transition zone to meet design criteria and eliminate concentrated flows
Dispersion Trench (Downspout Dispersion)				
Dispersion trench	A		Visual evidence of water discharging at concentrated points along trench (normal condition is a "sheet flow" from edge of trench; intent is to prevent erosion damage)	<ul style="list-style-type: none"> Remove debris from trench surface, if necessary Realign notched grade board or other distributor type, if possible Rebuild trench to standards, if necessary Remove/dispose in accordance with local solid waste requirements
Surface of trench	Fall and Spring		Accumulated trash, debris, or sediment on drain rock surface impedes sheet flow from facility	<ul style="list-style-type: none"> Maintain open, freely draining drain rock surface
Pipe(s) to trench	A, W		Vegetation/moss present on drain rock surface impedes sheet flow from facility	<ul style="list-style-type: none"> Remove/dispose
	A, W		Accumulation of trash, debris, or sediment in roof drains, gutters, driveway drains, area drains, etc.	<ul style="list-style-type: none"> Clear sediment from inlet/outlet pipe screen and inlet/outlet pipe Repair/reat cracks
	A, W		Pipe from sump to trench or drywell has accumulated sediment or is plugged	<ul style="list-style-type: none"> Replace when repair is insufficient
Sump	A		Cracked, collapsed, broken, or misaligned drain pipes	<ul style="list-style-type: none"> Remove/dispose Clear sediment from inlet/outlet pipe screen and/or inlet/outlet pipe Repair/reat cracks Replace when repair is insufficient
Access lid	A		Sediment in the sump	<ul style="list-style-type: none"> Remove/dispose in accordance with local solid waste requirements Repair/replace
	A		Cannot be easily opened	<ul style="list-style-type: none"> Refer to record drawings for design intent. If the access lid was designed to be exposed, expose and restore to surface grade
	A		Buried	<ul style="list-style-type: none"> Repair/replace
	A		Cover missing	<ul style="list-style-type: none"> Replace
Rock Pad (Concentrated Flow Dispersion)				
Rock pad	A		Only one layer of rock exists above native soil in area 6 square feet or larger, or any exposure of native soil	<ul style="list-style-type: none"> Replace repair rock pad to meet design standards Enlarge pad size or add additional courses of rock, if necessary
	A		Soil erosion in or adjacent to rock pad	Repair/replace rock pad to meet design standards
Dispersal Area				
Dispersal area (general)	B, S		Erosion (gullies/fills) greater than 2 inches deep in dispersal area	Eliminate cause of erosion and stabilize damaged area (regrade, rock, revegetate)
	B, S		Accumulated sediment or debris to extent that blocks or channelizes flow path	<ul style="list-style-type: none"> Remove excess sediment or debris Identify and control the sediment source (if feasible)
Ponded water	B, S		Standing surface water in dispersion area remains for more than 3 days after the end of a storm event	<ul style="list-style-type: none"> Identify the cause of the standing water (e.g., grade depressions, compacted soil) and take appropriate actions to address the problem (e.g., regrade to eliminate depressions or aerate/amend soils) Perform inspections after major storm events (24-hour)

* Frequency: A= Annually; B= Biannually (twice per year); W = At least once during the wet season (for debris/clog related maintenance, this visit should occur in the early fall, after deciduous trees have lost their leaves); S = Perform inspections after major storm events (24-hour storm event with a 10-year or greater recurrence interval).
 † Inspection should occur during plant establishment period (1-2 years, or additional 3rd year during extreme dry weather). IPM - Integrated Pest Management

Table 16 (continued). Maintenance Standards and Procedures for Downspout, Sheet Flow, and Concentrated Dispersion Systems.

Component Dispersal Area (cont'd)	Recommended Frequency*		Condition when Maintenance is Needed (Standards)	Action Needed (Procedures)
	Inspection	Routine Maintenance		
Plant establishment	B	Once every 1-2 weeks or as needed during prolonged dry periods ^b	Dispersal area vegetation in establishment period (1-2 years, or additional 3rd year during extreme dry weather)	Water weekly during periods of no rain to ensure plant establishment
Vegetation	As needed		Poor vegetation cover such that erosion is occurring	<ul style="list-style-type: none"> Ensure proper care (e.g., watering) Assess for nutrient deficiencies Replant as needed with appropriate plant species for the soil and moisture conditions Consider amending soils to promote plant health
Storage Sump	B, S		Vegetation inhibits dispersal flow along flow path	Trim, weed or replant to restore dispersal flow path
Sump	A		Accumulated sediment in the sump	<ul style="list-style-type: none"> Remove/discard in accordance with local solid waste requirements
Access lid	A		Cannot be easily opened	Repair/replace
	A		Buried	Expose and restore to surface grade
	A		Cover missing	Replace
Pest Control				
General Pests	As needed		Signs of pest infestations (PM protocol thresholds) are exceeded	<ul style="list-style-type: none"> Follow PM protocols for weed and pest management (see 'Additional Maintenance Resources' in Biosecurity Facilities section for more information on PM protocols)
Mosquitoes	B, S		Standing surface water in dispersion area remains for more than 3 days after the end of a storm	<ul style="list-style-type: none"> Identify the cause of the standing water and take appropriate actions to address the problem (see 'Ponded water') Do not use pesticides or <i>Bacillus thuringiensis israelensis</i> (Bti)
Rodents	As needed		Rodent holes or mounds disturb dispersion flow paths	Fill and compact soil around the holes and vegetate to restore flow path

* Frequency: A = Annually; B = Biannually (twice per year); W = At least once during the wet season (for debris/clog related maintenance, this visit should occur in the early fall, after deciduous trees have lost their leaves); S = Perform inspections after major storm events (24-hour storm event with a 10-year or greater recurrence interval).

^b Inspection should occur during plant establishment period (1-2 years, or additional 3rd year during extreme dry weather).



Equipment and Materials

Table 17 includes recommendations for equipment and materials commonly used to maintain downspout, sheet flow, and concentrated dispersion systems.

Table 17. Downspout, Sheet Flow, and Concentrated Dispersion Systems Equipment and Materials List.	
<i>Pipe/ structure system inspection and maintenance equipment</i>	<i>General landscaping equipment and materials to maintain dispersal area</i>
<input type="checkbox"/> Hand tools <input type="checkbox"/> Flashlight <input type="checkbox"/> Mirror (for viewing pipes without entering structure) <input type="checkbox"/> Garden hose <input type="checkbox"/> Plumbing snake <input type="checkbox"/> Level	<input type="checkbox"/> Mower <input type="checkbox"/> Gloves <input type="checkbox"/> Weeding tool <input type="checkbox"/> Soil knife <input type="checkbox"/> Manual edger <input type="checkbox"/> Line trimmer (also known as a string trimmer, weed eater, or weed whacker) <input type="checkbox"/> Hoe <input type="checkbox"/> Rake <input type="checkbox"/> Shovel <input type="checkbox"/> Push broom <input type="checkbox"/> Compost <input type="checkbox"/> Seeds <input type="checkbox"/> Plants <input type="checkbox"/> Watering equipment
<i>Equipment to clear accumulated sediment from sump</i>	
<input type="checkbox"/> Shop-Vac <input type="checkbox"/> Shovel	
<i>Material to replenish rock pad for concentrated dispersion</i>	
<input type="checkbox"/> Aggregate	

* Items not required for routine maintenance

Skills

The skills required for the maintenance of downspout, sheet flow, and concentrated dispersion systems are listed in the text box to the right. Additional specialized skills may also be required for corrective maintenance such as: horticulturalists, arborists, erosion control specialists, and soil scientists.

Skills Needed for Maintenance of Dispersion Systems

- General drainage system maintenance skills (e.g., inlet/pipe cleaning experience, inlet/pipe maintenance or repair experience)
- Landscaping skills (e.g., general plant care)
- Landscape or drainage contractor for major maintenance

**GETAWAY SKAGIT VALLEY-UPPER 9 RV PADS
O & M MANUAL**

APPENDIX D
SOURCE CONTROL
BEST MANAGEMENT PRACTICES

- S411—LANDSCAPING AND LAWN MAINTENANCE
- S417--MAINTENANCE OF STORM DRAINAGE AND TREATMENT SYSTEMS

S411 BMPs for Landscaping and Lawn/ Vegetation Management

Description of Pollutant Sources: Landscaping can include grading, soil transfer, vegetation removal, pesticide and fertilizer applications, and watering. Stormwater contaminants include toxic organic compounds, heavy metals, oils, total suspended solids, coliform bacteria, fertilizers, and pesticides.

Lawn and vegetation management can include control of objectionable weeds, insects, mold, bacteria, and other pests with pesticides. Examples include weed control on golf course lawns, access roads, and utility corridors and during landscaping; sap stain and insect control on lumber and logs; rooftop moss removal; killing nuisance rodents; fungicide application to patio decks, and residential lawn/plant care. It is possible to release toxic pesticides such as pentachlorophenol, carbamates, and organometallics to the environment by leaching and dripping from treated parts, container leaks, product misuse, and outside storage of pesticide contaminated materials and equipment. Poor management of the vegetation and poor application of pesticides or fertilizers can cause appreciable stormwater contamination.

Pollutant Control Approach: Control of fertilizer and pesticide applications, soil erosion, and site debris to prevent contamination of stormwater.

Develop and implement an Integrated Pest Management Plan (IPM) and use pesticides only as a last resort. Carefully apply pesticides/ herbicides, in accordance with label instructions. Maintain appropriate vegetation, with proper fertilizer application where practicable, to control erosion and the discharge of stormwater pollutants. Where practicable grow plant species appropriate for the site, or adjust the soil properties of the subject site to grow desired plant species.

Applicable Operational BMPs for Landscaping:

- Install engineered soil/landscape systems to improve the infiltration and regulation of stormwater in landscaped areas.
- Do not dispose of collected vegetation into waterways or storm sewer systems.

Recommended Additional Operational BMPs for Landscaping:

- Conduct mulch-mowing whenever practicable
- Dispose of grass clippings, leaves, sticks, or other collected vegetation, by composting, if feasible.
- Use mulch or other erosion control measures on soils exposed for more than one week during the dry season or two days during the rainy season.
- Store and maintain appropriate oil and chemical spill cleanup materials in readily

accessible locations when using oil or other chemicals. Ensure that employees are familiar with proper spill cleanup procedures.

- Till fertilizers into the soil rather than dumping or broadcasting onto the surface. Determine the proper fertilizer application rate for the types of soil and vegetation encountered.
- Till a topsoil mix or composted organic material into the soil to create a well-mixed transition layer that encourages deeper root systems and drought-resistant plants.
- Use manual and/or mechanical methods of vegetation removal rather than applying herbicides, where practical.

Applicable Operational BMPs for the Use of Pesticides:

- Develop and implement an IPM (See section on IPM in Applicable Operational BMPs for Vegetation Management) and use pesticides only as a last resort.
- Implement a pesticide-use plan and include at a minimum: a list of selected pesticides and their specific uses; brands, formulations, application methods and quantities to be used; equipment use and maintenance procedures; safety, storage, and disposal methods; and monitoring, record keeping, and public notice procedures. All procedures shall conform to the requirements of Chapter 17.21 RCW and Chapter 16-228 WAC (Appendix IV-D: Regulatory Requirements That Impact Stormwater Programs (p.723) R.7).
- Choose the least toxic pesticide available that is capable of reducing the infestation to acceptable levels. The pesticide should readily degrade in the environment and/or have properties that strongly bind it to the soil. Conduct any pest control activity at the life stage when the pest is most vulnerable. For example, if it is necessary to use a *Bacillus thuringiensis* application to control tent caterpillars, apply it to the material before the caterpillars cocoon or it will be ineffective. Any method used should be site-specific and not used wholesale over a wide area.
- Apply the pesticide according to label directions. Do not apply pesticides in quantities that exceed manufacturer's instructions.
- Mix the pesticides and clean the application equipment in an area where accidental spills will not enter surface or ground waters, and will not contaminate the soil.
- Store pesticides in enclosed areas or in covered impervious containment. Do not discharge pesticide contaminated stormwater or spills/leaks of pesticides to storm sewers. Do not hose down the paved areas to a storm sewer or conveyance ditch. Store and maintain appropriate spill cleanup materials in a location known to all near the storage area.
- Clean up any spilled pesticides. Keep pesticide contaminated waste materials in

designated covered and contained areas.

- The pesticide application equipment must be capable of immediate shutoff in the event of an emergency.
- Spraying pesticides within 100 feet of open waters including wetlands, ponds, and rivers, streams, creeks, sloughs and any drainage ditch or channel that leads to open water may have additional regulatory requirements beyond just following the pesticide product label. Additional requirements may include:
 - Obtaining a discharge permit from Ecology.
 - Obtaining a permit from the local jurisdiction.
 - Using an aquatic labeled pesticide.
- Flag all sensitive areas including wells, creeks, and wetlands prior to spraying.
- Post notices and delineate the spray area prior to the application, as required by the local jurisdiction or by Ecology.
- Conduct spray applications during weather conditions as specified in the label direction and applicable local and state regulations. Do not apply during rain or immediately before expected rain.

Recommended Additional Operational BMPs for the use of pesticides:

- Consider alternatives to the use of pesticides such as covering or harvesting weeds, substitute vegetative growth, and manual weed control/moss removal.
- Consider the use of soil amendments, such as compost, that are known to control some common diseases in plants, such as Pythium root rot, ashy stem blight, and parasitic nematodes. The following are three possible mechanisms for disease control by compost addition (USEPA Publication 530-F-9-044):
 1. Successful competition for nutrients by antibiotic production;
 2. Successful predation against pathogens by beneficial microorganism; and
 3. Activation of disease-resistant genes in plants by composts.

Installing an amended soil/landscape system can preserve both the plant system and the soil system more effectively. This type of approach provides a soil/landscape system with adequate depth, permeability, and organic matter to sustain itself and continue working as an effective stormwater infiltration system and a sustainable nutrient cycle.

- Once a pesticide is applied, evaluate its effectiveness for possible improvement. Records should be kept showing the effectiveness of the pesticides considered.
- Develop an annual evaluation procedure including a review of the effectiveness of

pesticide applications, impact on buffers and sensitive areas (including potable wells), public concerns, and recent toxicological information on pesticides used/proposed for use. If individual or public potable wells are located in the proximity of commercial pesticide applications, contact the regional Ecology hydrogeologist to determine if additional pesticide application control measures are necessary.

- Rinseate from equipment cleaning and/or triple-rinsing of pesticide containers should be used as product or recycled into product.

For more information, contact the Washington State University (WSU) Extension Home-Assist Program, (253) 445-4556, or Bio-Integral Resource Center (BIRC), P.O. Box 7414, Berkeley, CA.94707, or EPA to obtain a publication entitled "Suspended, Canceled, and Restricted Pesticides" which lists all restricted pesticides and the specific uses that are allowed.

Applicable Operational BMPs for Vegetation Management:

- Use at least an eight-inch "topsoil" layer with at least 8 percent organic matter to provide a sufficient vegetation-growing medium. Amending existing landscapes and turf systems by increasing the percent organic matter and depth of topsoil can substantially improve the permeability of the soil, the disease and drought resistance of the vegetation, and reduce fertilizer demand. This reduces the demand for fertilizers, herbicides, and pesticides. Organic matter is the least water-soluble form of nutrients that can be added to the soil. Composted organic matter generally releases only between 2 and 10 percent of its total nitrogen annually, and this release corresponds closely to the plant growth cycle. Return natural plant debris and mulch to the soil, to continue recycling nutrients indefinitely.
- Select the appropriate turfgrass mixture for the climate and soil type. Certain tall fescues and rye grasses resist insect attack because the symbiotic endophytic fungi found naturally in their tissues repel or kill common leaf and stem-eating lawn insects. However, they do not, repel root-feeding lawn pests such as Crane Fly larvae, and are toxic to ruminants such as cattle and sheep. The fungus causes no known adverse effects to the host plant or to humans. Endophytic grasses are commercially available; use them in areas such as parks or golf courses where grazing does not occur. Local agricultural or gardening resources such as Washington State University Extension office can offer advice on which types of grass are best suited to the area and soil type.
- Use the following seeding and planting BMPs, or equivalent BMPs to obtain information on grass mixtures, temporary and permanent seeding procedures, maintenance of a recently planted area, and fertilizer application rates: BMP C120: Temporary and Permanent Seeding (p.278), BMP C121: Mulching (p.284), BMP C123: Plastic Covering (p.294), and BMP C124: Sodding (p.296).
- Adjusting the soil properties of the subject site can assist in selection of desired

plant species. For example, design a constructed wetland to resist the invasion of reed canary grass by layering specific strata of organic matters (e.g., composted forest product residuals) and creating a mildly acidic pH and carbon-rich soil medium. Consult a soil restoration specialist for site-specific conditions.

- Aerate lawns regularly in areas of heavy use where the soil tends to become compacted. Conduct aeration while the grasses in the lawn are growing most vigorously. Remove layers of thatch greater than ¾-inch deep.
- Mowing is a stress-creating activity for turfgrass. Grass decreases its productivity when mown too short and there is less growth of roots and rhizomes. The turf becomes less tolerant of environmental stresses, more disease prone and more reliant on outside means such as pesticides, fertilizers, and irrigation to remain healthy. Set the mowing height at the highest acceptable level and mow at times and intervals designed to minimize stress on the turf. Generally mowing only 1/3 of the grass blade height will prevent stressing the turf.

Irrigation:

- The depth from which a plant normally extracts water depends on the rooting depth of the plant. Appropriately irrigated lawn grasses normally root in the top 6 to 12 inches of soil; lawns irrigated on a daily basis often root only in the top 1 inch of soil. Improper irrigation can encourage pest problems, leach nutrients, and make a lawn completely dependent on artificial watering. The amount of water applied depends on the normal rooting depth of the turfgrass species used, the available water holding capacity of the soil, and the efficiency of the irrigation system. Consult with the local water utility, Conservation District, or Cooperative Extension office to help determine optimum irrigation practices.

Fertilizer Management:

- Turfgrass is most responsive to nitrogen fertilization, followed by potassium and phosphorus. Fertilization needs vary by site depending on plant, soil, and climatic conditions. Evaluation of soil nutrient levels through regular testing ensures the best possible efficiency and economy of fertilization. For details on soils testing, contact the local Conservation District, a soils testing professional, or a Washington State University Extension office.
- Apply fertilizers in amounts appropriate for the target vegetation and at the time of year that minimizes losses to surface and ground waters. Do not fertilize when the soil is dry. Alternatively, do not apply fertilizers within three days prior to predicted rainfall. The longer the period between fertilizer application and either rainfall or irrigation, the less fertilizer runoff occurs.
- Use slow release fertilizers such as methylene urea, IDBU, or resin coated fertilizers when appropriate, generally in the spring. Use of slow release fertilizers is especially important in areas with sandy or gravelly soils.

- Time the fertilizer application to periods of maximum plant uptake. Ecology generally recommends application in the fall and spring, although Washington State University turf specialists recommend four fertilizer applications per year.
- Properly trained persons should apply all fertilizers. Apply no fertilizer at commercial and industrial facilities, to grass swales, filter strips, or buffer areas that drain to sensitive water bodies unless approved by the local jurisdiction.

Integrated Pest Management

An IPM program might consist of the following steps:

Step 1: Correctly identify problem pests and understand their life cycle

Step 2: Establish tolerance thresholds for pests.

Step 3: Monitor to detect and prevent pest problems.

Step 4: Modify the maintenance program to promote healthy plants and discourage pests.

Step 5: Use cultural, physical, mechanical or biological controls first if pests exceed the tolerance thresholds.

Step 6: Evaluate and record the effectiveness of the control and modify maintenance practices to support lawn or landscape recovery and prevent recurrence.

For an elaboration of these steps, refer to [Appendix IV-F: Example of an Integrated Pest Management Program \(p.739\)](#).

S417 BMPs for Maintenance of Stormwater Drainage and Treatment Systems

Description of Pollutant Sources: Facilities include roadside catch basins on arterials and within residential areas, conveyance systems, detention facilities such as ponds and vaults, oil/water separators, biofilters, settling basins, infiltration systems, and all other types of stormwater treatment systems presented in Volume V (p.765). Oil and grease, hydrocarbons, debris, heavy metals, sediments and contaminated water are found in catch basins, oil and water separators, settling basins, etc.

Pollutant Control Approach: Provide maintenance and cleaning of debris, sediments, and oil from stormwater collection, conveyance, and treatment systems to obtain proper operation.

Applicable Operational BMPs:

Maintain stormwater treatment facilities per the operations and maintenance (O&M) procedures presented in V-4.6 Maintenance Standards for Drainage Facilities (p.829) in addition to the following BMPs:

- Inspect and clean treatment BMPs, conveyance systems, and catch basins as needed, and determine necessary O&M improvements.
- Promptly repair any deterioration threatening the structural integrity of stormwater facilities. These include replacement of clean-out gates, catch basin lids, and rock in emergency spillways.
- Ensure adequacy of storm sewer capacities and prevent heavy sediment discharges to the sewer system.
- Regularly remove debris and sludge from BMPs used for peak-rate control, treatment, etc. and discharge to a sanitary sewer if approved by the sewer authority, or truck to an appropriate local or state government approved disposal site.

- Clean catch basins when the depth of deposits reaches 60 percent of the sump depth as measured from the bottom of basin to the invert of the lowest pipe into or out of the basin. However, in no case should there be less than six inches clearance from the debris surface to the invert of the lowest pipe. Some catch basins (for example, WSDOT Type 1L basins) may have as little as 12 inches sediment storage below the invert. These catch basins need frequent inspection and cleaning to prevent scouring. Where these catch basins are part of a stormwater collection and treatment system, the system owner/operator may choose to concentrate maintenance efforts on downstream control devices as part of a systems approach.
- Clean woody debris in a catch basin as frequently as needed to ensure proper operation of the catchbasin.
- Post warning signs; "Dump No Waste - Drains to Ground Water," "Streams," "Lakes," or emboss on or adjacent to all storm drain inlets *where possible*.
- Disposal of sediments and liquids from the catch basins must comply with Appendix IV-G: Recommendations for Management of Street Wastes (p.743).

Additional Applicable BMPs: Select additional applicable BMPs from this chapter depending on the pollutant sources and activities conducted at the facility. Those BMPs include:

- S425 BMPs for Soil Erosion and Sediment Control at Industrial Sites (p.665)
- S427 BMPs for Storage of Liquid, Food Waste, or Dangerous Waste Containers (p.667)
- S426 BMPs for Spills of Oil and Hazardous Substances (p.666)
- S410 BMPs for Illicit Connections to Storm Drains (p.633)
- S430 BMPs for Urban Streets (p.684)