Stormwater Pollution Prevention Plan (SWPPP)

for

Keimig 5th Street

Prepared for:

City of Puyallup

Permittee / Owner	Developer	Operator / Contractor
Samantha Keimig	[Insert Name]	[Insert Name]

111th 5th St SE, Puyallup, WA

Certified Erosion and Sediment Control Lead (CESCL)

Name	Organization	Contact Phone Number
[Insert Name]	[Insert Name]	[Insert Name]

SWPPP Prepared By

Name	Organization	Contact Phone Number
Matthew J. Haringa, P.E.	Interlaken Engineering and Design, PLLC	(206) 470 – 9572

SWPPP Preparation Date

February 2, 2025

Project Construction Dates

Activity / Phase	Start Date	End Date
[Insert Text]	MM / DD / YYYY	MM / DD / YYYY

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List of Acronyms and Abbreviations

Acronym / Abbreviation	Explanation
303(d)	Section of the Clean Water Act pertaining to Impaired Waterbodies
BFO	Bellingham Field Office of the Department of Ecology
BMP(s)	Best Management Practice(s)
CESCL	Certified Erosion and Sediment Control Lead
CO_2	Carbon Dioxide
CRO	Central Regional Office of the Department of Ecology
CSWGP	Construction Stormwater General Permit
CWA	Clean Water Act
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
Ecology	Washington State Department of Ecology
EPA	United States Environmental Protection Agency
ERO	Eastern Regional Office of the Department of Ecology
ERTS	Environmental Report Tracking System
ESC	Erosion and Sediment Control
GULD	General Use Level Designation
NPDES	National Pollutant Discharge Elimination System
NTU	Nephelometric Turbidity Units
NWRO	Northwest Regional Office of the Department of Ecology
pH	Power of Hydrogen
RCW	Revised Code of Washington
SPCC	Spill Prevention, Control, and Countermeasure
su	Standard Units
SWMMEW	Stormwater Management Manual for Eastern Washington
SWMMWW	Stormwater Management Manual for Western Washington
SWPPP	Stormwater Pollution Prevention Plan
TESC	Temporary Erosion and Sediment Control
SWRO	Southwest Regional Office of the Department of Ecology
TMDL	Total Maximum Daily Load
VFO	Vancouver Field Office of the Department of Ecology
WAC	Washington Administrative Code
WSDOT	Washington Department of Transportation
WWHM	Western Washington Hydrology Model

Project Information (1.0)

Project/Site Name: Keimig 5th Street
Street/Location: 111th 5th Street SE
City: Puyallup State: WA Zip code: 98371

Existing Conditions (1.1)

Total acreage (including support activities such as off-site equipment staging yards, material storage areas, borrow areas).

Total acreage: 0.23 acres

Disturbed acreage: 0.23 acres

Existing structures: 0 sf

Landscape topography: Project is flat with a local low point located centrally in the site.

Drainage patterns: Runoff from the site flows to catch basins located north of the site.

Existing Vegetation: Subject lot is presently undeveloped with minimal vegetation.

Critical Areas (wetlands, streams, high erosion risk, steep or difficult to stabilize slopes): There are no known critical areas on the subject lot.

List of known impairments for 303(d) listed or Total Maximum Daily Load (TMDL) for the receiving waterbody: There are no known impairments for 303(d)

Table 1 includes a list of suspected and/or known contaminants associated with the construction activity.

Table 1 – Summary of Site Pollutant Constituents

Constituent (Pollutant)	Location	Depth	Concentration
No Known Pollutants			

Proposed Construction Activities (1.2)

Description of site development (example: subdivision):
Applicant proposes to construct a 4,028 sf building, with a driveway containing 4 parking spaces, and two additional access points to 5th St SE. The project also includes associated utilities onsite, water main extension, and a sewer main extension in the ROW.

Description of construction activities (example: site preparation, demolition, excavation):
Site preparation, demolition of exisiting residence, excavation for installation of utilities.
Install and maintain Erosion Control, grading and clearing, install new utilities, construct new structure, construct permanent driveway, and install new landscape.

Description of site drainage including flow from and onto adjacent properties. Must be consistent with Site Map in Appendix A:
Runoff from the subject lot generally flows north from the site, entering storm drain conveyance to the north of the lot. Flows enter two separate catch basins. Each catch basin eventually discharges to the Puyallup river, however they take separate conveyance routes.

Description of final stabilization (example: extent of revegetation, paving, landscaping):
Project site will be revegetated.
New paving, new building and landscaping onsite.

Contaminated Site Information:
Proposed activities regarding contaminated soils or groundwater (example: on-site treatment system, authorized sanitary sewer discharge):
No known contaminants.

Construction Stormwater Best Management Practices (BMPs) (2.0)

The SWPPP is a living document reflecting current conditions and changes throughout the life of the project. These changes may be informal (i.e. hand-written notes and deletions). Update the SWPPP when the CESCL has noted a deficiency in BMPs or deviation from original design.

The 13 Elements (2.1)

Element 1: Preserve Vegetation / Mark Clearing Limits (2.1.1)

List and describe BMPs:
BMP C233 – Silt Fence (Puyallup 02.03.02). Along with high visibility fencing, silt fencing will also be installed along the downhill limits of disturbance. This will be used to keep any surface flow generated silts and particulates from exiting the site and entering adjacent properties.

Installation Schedules:
High visibility fencing and silt fencing will be the first elements installed after flagging the limits of disturbance and prior to beginning construction.

Inspection and Maintenance plan:
Weekly inspection is required of the silt fencing. Additionally, the silt fencing should be inspected after every rain event and any buildup of sediment removed. Any needed repairs should be performed immediately.

Responsible Staff:
Contractor or designee.

Element 2: Establish Construction Access (2.1.2)

List and describe BMPs:
A stabilized construction entrance will be established from the existing access driveway in accordance with C105 (Puyallup 05.01.01) following the guidelines listed below:

a. Street washing is not permitted, even after shoveling or sweeping.
b. During construction, if material is being deposited on off-site streets, additional strategies may be required including:

i. Regenerative-type vacuum sweepers and repeated or continuous sweeping.
ii. Special site procedures and provisions (such as transferring haul-outs to trucks that travel only on paved and maintained surfaces in the site).
iii. Suspension of work until dry weather.

Installation Schedules:
The stabilized construction entrance will be installed after flagging the limits of disturbance and prior to the beginning of construction

Inspection and Maintenance plan:
BMP shall be inspected and maintained weekly or with major rain events.

Responsible Staff:
Contractor or designee

Element 3: Control Flow Rates (2.1.3)

Will you construct stormwater retention and/or detention facilities?
No

Will you use permanent infiltration ponds or other low impact development (example: rain gardens, bio-retention, porous pavement) to control flow during construction?
No

List and describe BMPs:
Due to the small scale of the project sediment is not anticipated. It is expected that Silt Fences installed per C233 (Puyallup 02.03.02) will provide adequate flow dissipation.

Installation Schedules:
Silt fencing will be installed / placed immediately following flagging the limits of disturbance

Inspection and Maintenance plan:
BMP shall be inspected and maintained weekly or with major rain events.

Responsible Staff:
Contractor or designee

Element 4: Install Sediment Controls (2.1.4)

List and describe BMPs:
Silt fence will be installed around the proposed work area per C233 (Puyallup 02.03.02).

Installation Schedules:
Silt fencing will be installed / placed immediately following flagging of the limits of disturbance.

Inspection and Maintenance plan:
BMP shall be inspected and maintained weekly or with major rain events.

Responsible Staff:
Contractor or designee

Element 5: Stabilize Soils (2.1.5)

Season	Dates	Number of Days Soils Can be Left Exposed
During the Dry Season	May 1 – September 30	7 days
During the Wet Season	October 1 – April 30	2 days

Soils must be stabilized at the end of the shift before a holiday or weekend if needed based on the weather forecast.

Anticipated project dates: Start date: TBD End date: TBD

Will you construct during the wet season?
TBD
List and describe BMPs:
BMP C121 – Mulching. Mulching will be utilized to cover any exposed soil areas of the site that will be worked for more than seven days.

BMP C123 – Plastic Covering. Plastic covering will be utilized in limited areas such as stockpiles or other construction materials.

BMP C140 – Dust Control. Dust control will be provided mainly by use of mulch and plastic covering discussed above. Additional measures include sprinkling exposed areas of the site until wet, construction of natural or artificial windbreaks, keeping paved areas on and near the site clean, exposing only those portions of the site that are being worked on.

Installation Schedules:
Mulching will be applied following initial rough grading of the site. Plastic covering will be utilized as needed for stockpiles and other construction materials.

Inspection and Maintenance plan:
The thickness of the mulch must be maintained. Any areas that experience erosion shall be re-mulched.

Plastic covering should be inspected weekly and following any rain and / or wind events. Replace / repair any tears found. Plastic coverings should be completely replaced with new material every six months.

Responsible Staff:
Contractor or designee

Element 6: Protect Slopes (2.1.6)

Will steep slopes be present at the site during construction?
No

List and describe BMPs:
There are no steep slopes associated with this project. It is anticipated that mulching per C121 will be adequate to protect slopes. Any clearing/grading work shall comply with the Stormwater Manual, geotechnical recommendations, State Environmental Policy Act (SEPA) conditions, and other applicable regulations and standards. These project-specific requirements are in addition to and take priority over general standards.

Installation Schedules:
Per construction sequence

Inspection and Maintenance plan:
BMP shall be inspected and maintained weekly or with major rain events.

Responsible Staff:
Contractor or designee.

Element 7: Protect Drain Inlets (2.1.7)

List and describe BMPs:
Storm Drain Inlet Protection per C220 (Puyallup 02.03.05) will be installed on downstream catch basins that collect flows from the subject lot. These include catch basins 5th St SE.

Installation Schedules:
Silt fencing will be installed / placed immediately following flagging of the limits of disturbance.

Inspection and Maintenance plan:
BMP shall be inspected and maintained weekly or with major rain events. Clean or replace any clogged inserts. The Contractor shall remove inlet protection at the end of the project without releasing captured sediment into the storm system.

Responsible Staff:
Contractor or designee.

Element 8: Stabilize Channels and Outlets (2.1.8)

Provide stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes, and downstream reaches, will be installed at the outlets of all conveyance systems.

List and describe BMPs:
No channels or outlets are anticipated being disturbed or worked on during this project.

Installation Schedules:
N/A

Inspection and Maintenance plan:
N/A

Responsible Staff:
Contractor or designee.

Element 9: Control Pollutants (2.1.9)

The following pollutants are anticipated to be present on-site:

Table 2 – Pollutants

Pollutant (and source, if applicable)
Demolition Debris (Removed concrete & asphalt paving)
Asphalt Sawcutting waste water
Dripping construction vehicle fluids
Wheel wash water

List and describe BMPs:

BMP C151 – Concrete Handling. Assure that washout of concrete trucks, chutes, pumps, and internals is performed at an approved off-site location or in designated concrete washout areas. Do not wash out concrete trucks onto the ground, or into storm drains, open ditches, streets, or streams. Do not dump excess concrete on site, except in designated concrete washout areas. Wash off hand tools including, but not limited to, screeds, shovels, rakes, floats, and trowels into formed areas only.

BMP C152 – Sawcutting and Surfacing Pollution Prevention. Vacuum slurry and cuttings during cutting and surfacing operations. Slurry and cuttings shall not remain on permanent concrete or asphalt pavement overnight. Slurry and cuttings shall not drain to any natural or constructed drainage conveyance including stormwater systems.

BMP C153 – Material Delivery, Storage & Containment. Temporary storage area or shed should be located away from vehicular traffic, near the construction entrance(s), and away from waterways or storm drains. Hazardous material storage on-site should be minimized. Do not store chemicals, drums, or bagged materials directly on the ground. Place these items on a pallet and, when possible, and within secondary containment.

BMP C154 – Concrete Washout Area. Perform washout of concrete trucks at an approved off-site location or in designated concrete washout areas only. Do not wash out concrete trucks onto the ground, or into storm drains, open ditches, streets, or streams. Do not allow excess concrete to be dumped on-site, except in designated concrete washout areas. Concrete washout areas may be prefabricated concrete washout containers, or self-installed structures (above-grade or below-grade).

Installation Schedules:

During construction when pollutants are present and/or need for these BMPs arise.

Inspection and Maintenance plan:

Concrete Handling shall be during pours. Check containers for holes in the liner daily

during concrete pours and repair the same day. Sawcutting shall be continuously during those operations to determine whether slurry, cuttings, or process water could enter waters of the state. If inspections show that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment, and vacuum trucks. Materials storage should be checked daily at the start of each work day. Concrete washout areas, if on-site, should be inspected and verified that BMPs are in place prior to the commencement of concrete work.

Responsible Staff: Contractor or designee.

Will maintenance, fueling, and/or repair of heavy equipment and vehicles occur on-site?
No

Will wheel wash or tire bath system BMPs be used during construction?
Yes

Will pH-modifying sources be present on-site?
No

Element 10: Control Dewatering (2.1.10)

List and describe BMPs:
Dewatering is not anticipated as a part of this project.

Installation Schedules:
If necessary throughout construction

Inspection and Maintenance plan:
BMP shall be inspected and maintained weekly or with major rain events.

Responsible Staff:
Contractor or designee.

Element 11: Maintain BMPs (2.1.11)

All temporary and permanent Erosion and Sediment Control (ESC) BMPs shall be maintained and repaired as needed to ensure continued performance of their intended function.

Maintenance and repair shall be conducted in accordance with each particular BMP specification (see *Volume II of the SWMMWW or Chapter 7 of the SWMMEW*).

Visual monitoring of all BMPs installed at the site will be conducted at least once every calendar week and within 24 hours of any stormwater or non-stormwater discharge from the site. If the site becomes inactive and is temporarily stabilized, the inspection frequency may be reduced to once every calendar month.

All temporary ESC BMPs shall be removed within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed.

Trapped sediment shall be stabilized on-site or removed. Disturbed soil resulting from removal of either BMPs or vegetation shall be permanently stabilized.

Additionally, protection must be provided for all BMPs installed for the permanent control of stormwater from sediment and compaction. BMPs that are to remain in place following completion of construction shall be examined and restored to full operating condition. If sediment enters these BMPs during construction, the sediment shall be removed and the facility shall be returned to conditions specified in the construction documents.

Element 12: Manage the Project (2.1.12)

The project will be managed based on the following principles:

- Projects will be phased to the maximum extent practicable and seasonal work limitations will be taken into account.
- Inspection and monitoring:
    - Inspection, maintenance and repair of all BMPs will occur as needed to ensure performance of their intended function.
    - Site inspections and monitoring will be conducted in accordance with Special Condition S4 of the CSWGP. Sampling locations are indicated on the Site Map. Sampling station(s) are located in accordance with applicable requirements of the CSWGP.
- Maintain an updated SWPPP.
    - The SWPPP will be updated, maintained, and implemented in accordance with Special Conditions S3, S4, and S9 of the CSWGP.

As site work progresses the SWPPP will be modified routinely to reflect changing site conditions. The SWPPP will be reviewed monthly to ensure the content is current.

If construction is to continue through the rainy season the seasonal suspension plan shall include the following:

a. CESCL (with contact information) having the authority to direct implementation of additional measures or maintenance and repair of existing measures;

b. Inspections increased to weekly;
c. Erosion prevention and sediment control plan that protects all disturbed areas:
    i. Areas that are to be unworked during the wet season shall be seeded and mulched by September 30;
    ii. Cover measures shall be installed on all areas where seeding is not well established;
    iii. All soil stockpiles and steep cut-and-fill slopes shall have cover measures;
    iv. Construction Road and parking lots shall be stabilized.

Table 3 – Management

X	Design the project to fit the existing topography, soils, and drainage patterns
X	Emphasize erosion control rather than sediment control
X	Minimize the extent and duration of the area exposed
X	Keep runoff velocities low
X	Retain sediment on-site
X	Thoroughly monitor site and maintain all ESC measures
X	Schedule major earthwork during the dry season
	Other (please describe)

Table 4 – BMP Implementation Schedule

Phase of Construction Project	Stormwater BMPs	Date	Wet/Dry Season
[Insert construction activity]	[Insert BMP]	[MM/DD/YYYY]	[Insert Season]

Phase of Construction Project	Stormwater BMPs	Date	Wet/Dry Season
[Insert construction activity]	[Insert BMP]	[MM/DD/YYYY]	[Insert Season]

Element 13: Protect Low Impact Development (LID) BMPs (2.1.13)

No LID BMPs are proposed with this project.

Reporting and Record Keeping (3.0)

Record Keeping (3.1)

Site Log Book (3.1.1)

A site log book will be maintained for all on-site construction activities and will include:

- A record of the implementation of the SWPPP and other permit requirements
- Site inspections

Records Retention (3.1.2)

Records will be retained during the life of the project and for a minimum of three (3) years following the termination of permit coverage in accordance with Special Condition S5.C of the CSWGP.

Permit documentation to be retained on-site:

- CSWGP
- Permit Coverage Letter
- SWPPP
- Site Log Book

Permit documentation will be provided within 14 days of receipt of a written request from Ecology. A copy of the SWPPP or access to the SWPPP will be provided to the public when requested in writing in accordance with Special Condition S5.G.2.b of the CSWGP.

Updating the SWPPP (3.1.3)

The SWPPP will be modified if:

- Found ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the site.
- There is a change in design, construction, operation, or maintenance at the construction site that has, or could have, a significant effect on the discharge of pollutants to waters of the State.

The SWPPP will be modified within seven (7) days if inspection(s) or investigation(s) determine additional or modified BMPs are necessary for compliance. An updated timeline for BMP implementation will be prepared.

Appendix/Glossary

A. Site Map

B. BMP Detail

C. Site Inspection Form

Appendix A – Site Plan

A PORTION OF THE SE $\frac{1}{4}$ OF SEC 27, TWP 20 N, RGE 04 E

SWPPP APPENDIX A

IMPERVIOUS SURFACING

OFFSITE:
NEW: 338 SF
REPLACED: 0 SF
TOTAL (OFFSITE): 338 SF

ON-SITE:
NEW (PLAZA/WALK): 829 SF
NEW (PARKING): 2,087 SF
NEW (BUILDING): 4,028 SF
REPLACED: 0 SF
TOTAL (ON-SITE): 6,944 SF
TOTAL IMPERVIOUS: 7,282 SF

BUILDING DATA

FAR - GROSS FLOOR AREA - ZONING CODE
LEVEL 1 = 3,233.78 SF
LEVEL 2 - MEZZANINE = 888.59 SF
TOTAL = 4,122.36 SF

OCCUPANCY - GROSS FLOOR AREA - BUILDING CODE
TOTAL = 3,599.94 SF
GROUND LEVEL: 3,082.85 SF OF S-1 OCCUPANCY
MEZZANAINE: 517.09 SF OF B OCCUPANCY

TYPE OF CONSTRUTION
PER IBC: V-B

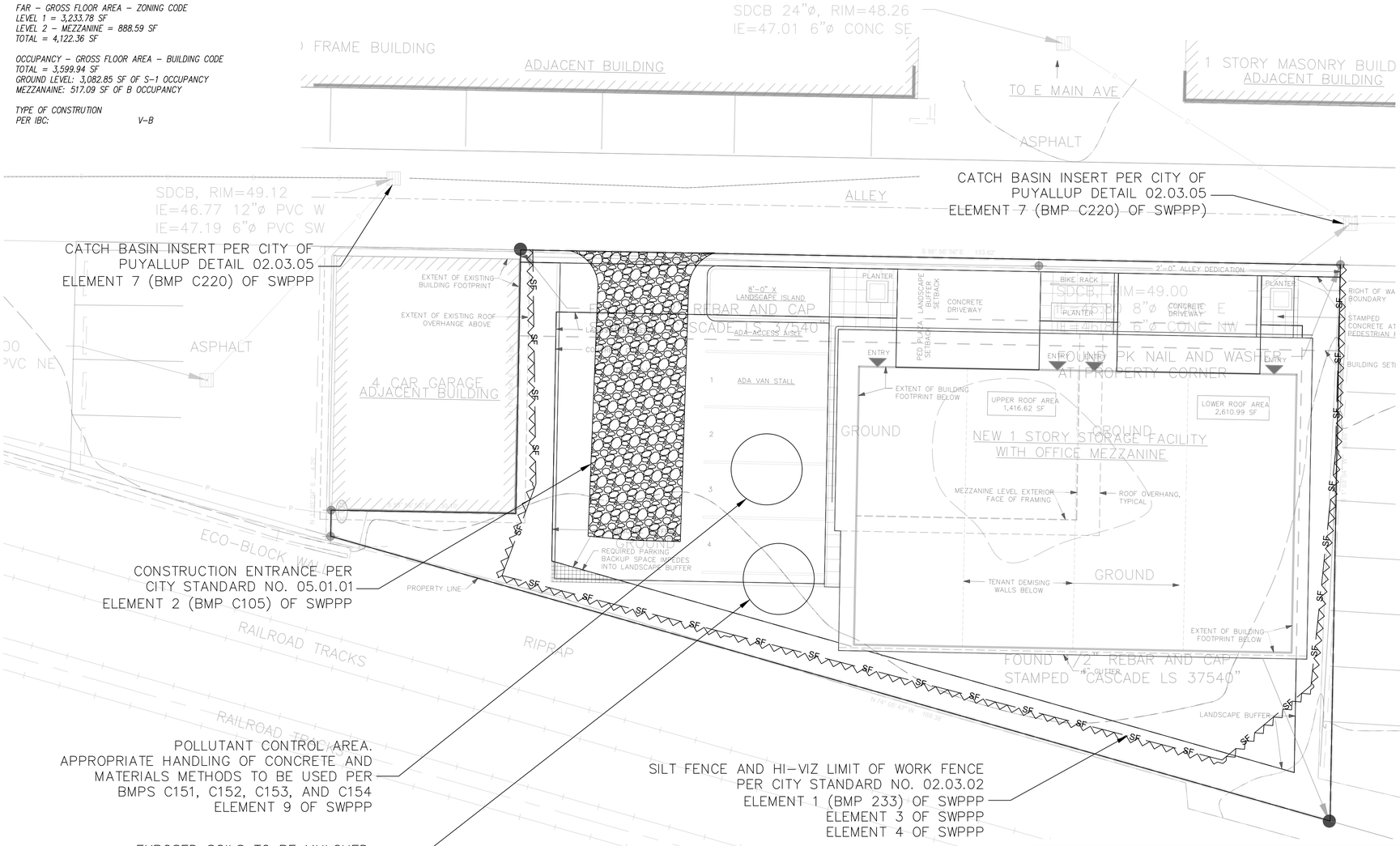
SITE DATA

SITE ADDRESS: 111 5TH ST SE
PUYALLUP WA, 98372

PARCEL NUMBER: 7285000112

SITE AREA GROSS: 10,000 SF = 0.23 AC

ZONING: CG - GENERAL COMMERCIAL



CITY OF PUYALLUP
STANDARD NOTES FOR DRAINAGE PLANS

1. *All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.*
2. *After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.*
3. *All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards").*
4. *A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.*
5. *Any revisions made to these plans must be reviewed and approved by the developer's engineer and the Engineering Services Staff prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.*
6. *The contractor shall have all utilities verified on the ground prior to any construction. Call 811 at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.*
7. *Any structure and/or obstruction which require removal or relocation relating to this project, shall be done so at the developer's expense.*
8. *During construction, all existing and newly installed drainage structures shall be protected from sediments.*
9. *All storm manholes shall conform to City Standard Detail No. 02.01.01. Flow control manhole/oil water separator shall conform to City Standard Detail No. 02.01.06 and 02.01.07.*
10. *Manhole ring and cover shall conform to City Standard Detail 06.01.02.*
11. *Catch basins Type I shall conform to City Standard Detail No.02.01.02 and 02.01.03 and shall be used only for depths less than 5 feet from top of the grate to the invert of the storm pipe.*
12. *Catch basins Type II shall conform to City Standard Detail No.02.01.04 and shall be used for depths greater than 5 feet from top of the grate to the invert of the storm pipe.*
13. *Cast iron or ductile iron frame and grate shall conform to City Standard Detail No.02.01.05. Grate shall be marked with "drains to stream". Solid catch basin lids (square unless noted as shall conform to WSDOT Standard Plan B-30.20-04 (Olympic Foundry No. SM60 or equal). Vaned grates shall conform to WSDOT Standard Plan B-30.30-03 (Olympic Foundry No. SM60V or equal).*
14. *Stormwater pipe shall be only PVC, concrete, ductile iron, or dual walled Polypropylene pipe.*
    a. *The use of any other type shall be reviewed and approved by the Engineering Services Staff prior to installation.*
    b. *PVC pipe shall be per ASTM D3034, SDR 35 for pipe size 15-inch and smaller and F679 for pipe sizes 18 to 27 inch. Minimum cover on PVC pipe shall be 3.0 feet.*
    c. *Concrete pipe shall conform to the WSDOT Standard Specifications for concrete underdrain pipe. Minimum cover on concrete pipe shall not less than 3.0 feet.*
    d. *Ductile iron pipe shall be Class 50, conforming to AWWA C151. Minimum cover on ductile iron pipe shall be 1.0 foot.*
    e. *Polypropylene Pipe (PP) shall be dual walled, have a smooth interior and exterior corrugations and meet WSDOT 9-05.24(1). 12-inch through 30-inch pipe shall meet or exceed ASTM F2736 and AASHTO M330, Type S, or Type D. 36-inch through 60-inch pipe shall meet or exceed ASTM F2881 and AASHTO M330, Type S, or Type D. Testing shall be per ASTM F1417. Minimum cover over Polypropylene pipe shall be 3-feet.*
15. *Trenching, bedding, and backfill for pipe shall conform to City Standard Detail No. 06.01.01.*
16. *Storm pipe shall be a minimum of 10 feet away from building foundations and/or roof lines.*
17. *All storm drain mains shall be tested and inspected for acceptance as outlined in Section 406 of the City of Puyallup Sanitary Sewer System Standards.*
18. *All temporary sedimentation and erosion control measures, and protective measures for critical areas and significant trees shall be installed prior to initiating any construction activities.*

VICINITY MAP
1" ≈ 1000'

KEIMIG 5TH ST
Site Address: 111 5TH ST SE
Jurisdiction: Puyallup
Parcel No.: 728500-0112
Applicant: Samantha Keimig
Permit No.: PLCUP20220162
Interlaken Project No.: SEA-24-068

Interlaken Engineering and Design, PLLC
Seattle, WA | (206) 470-9572
www.interlakenengineering.com

Revisions:

CA
APPENDIX A
Scale: 1" = 10'

Appendix B – BMP Details

Figure II-3.1: Stabilized Construction Access

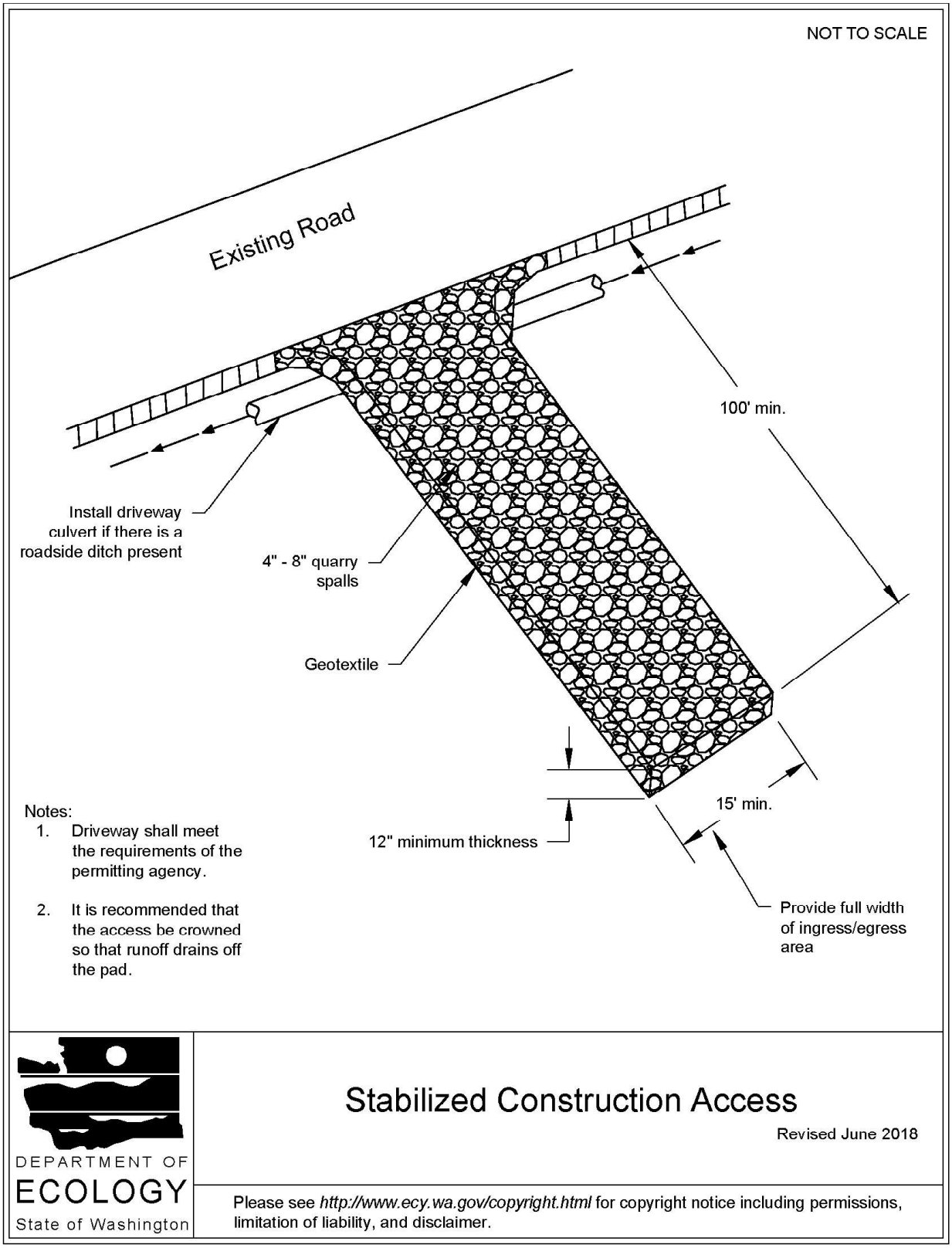


Figure II-3.7: Concrete Washout Area with Wood Planks

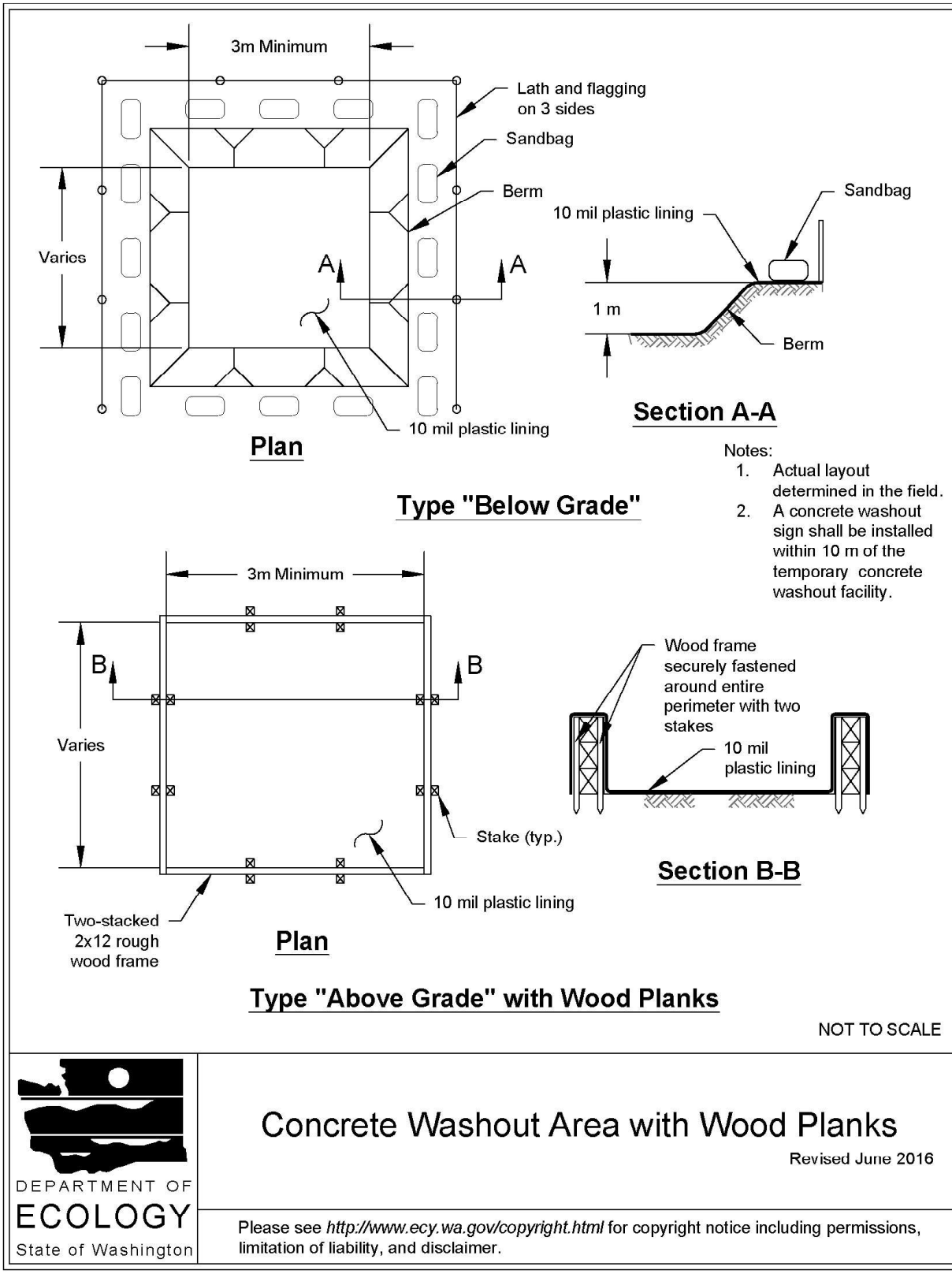


Figure II-3.8: Concrete Washout Area with Straw Bales

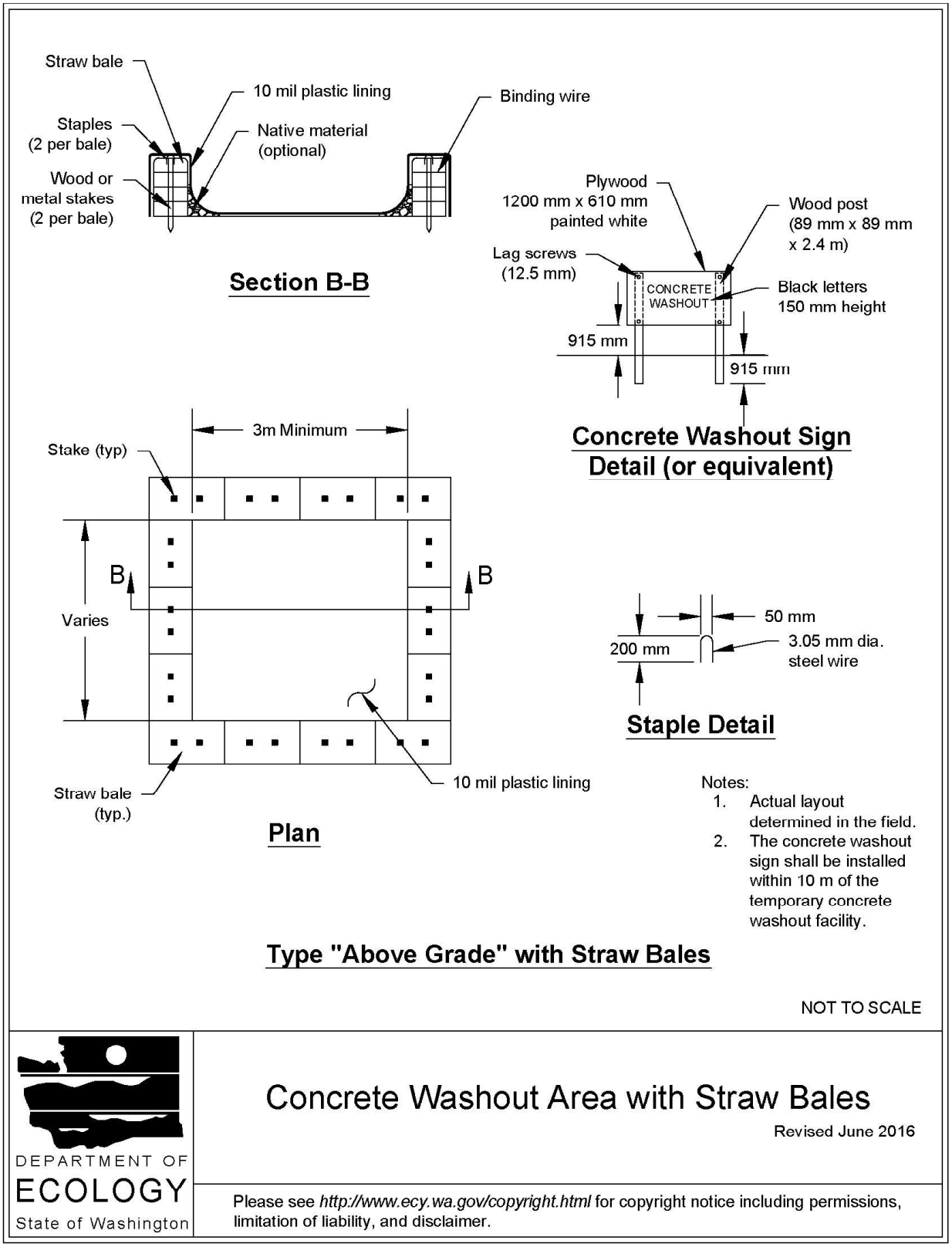


Figure II-3.9: Prefabricated Concrete Washout Container w/Ramp

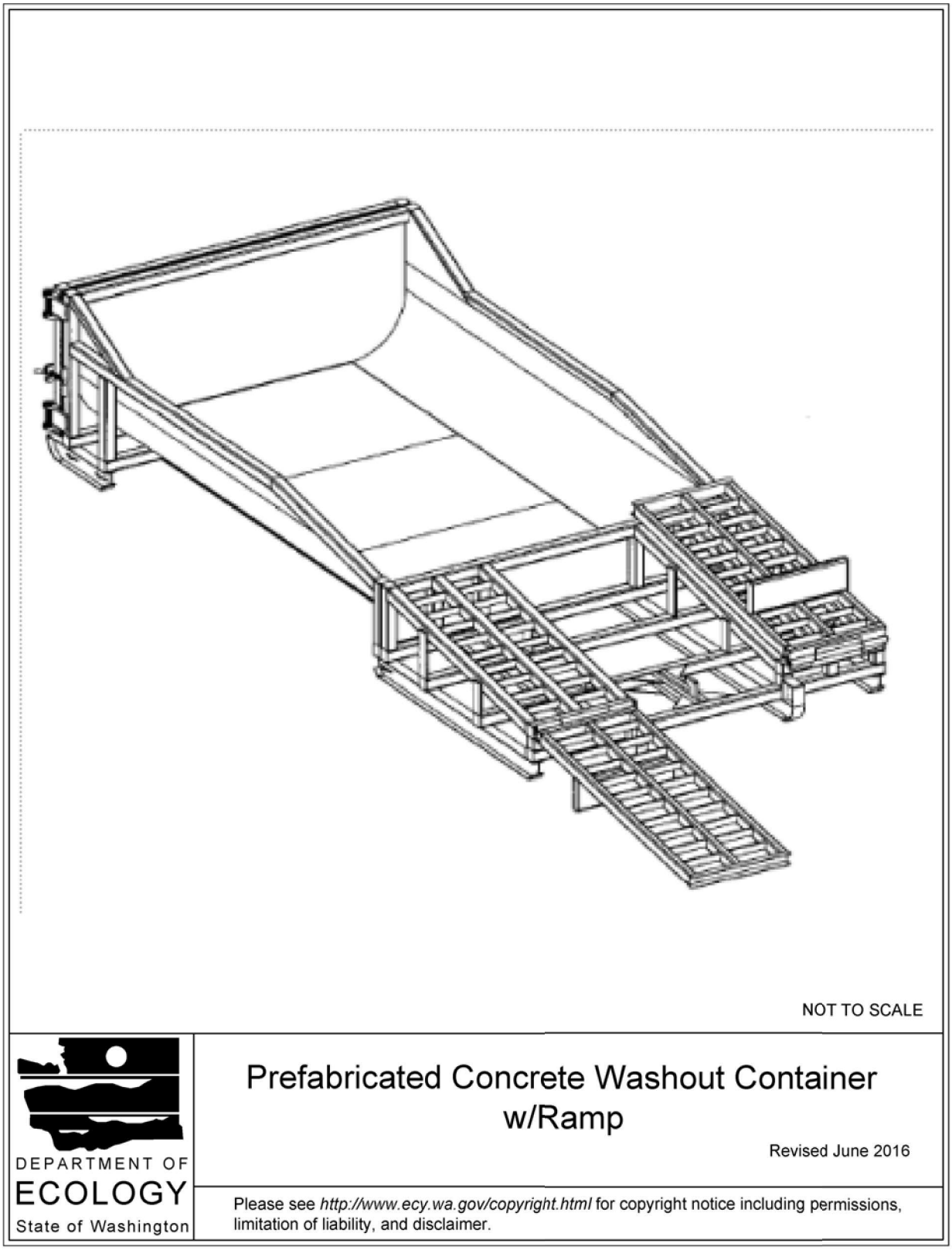
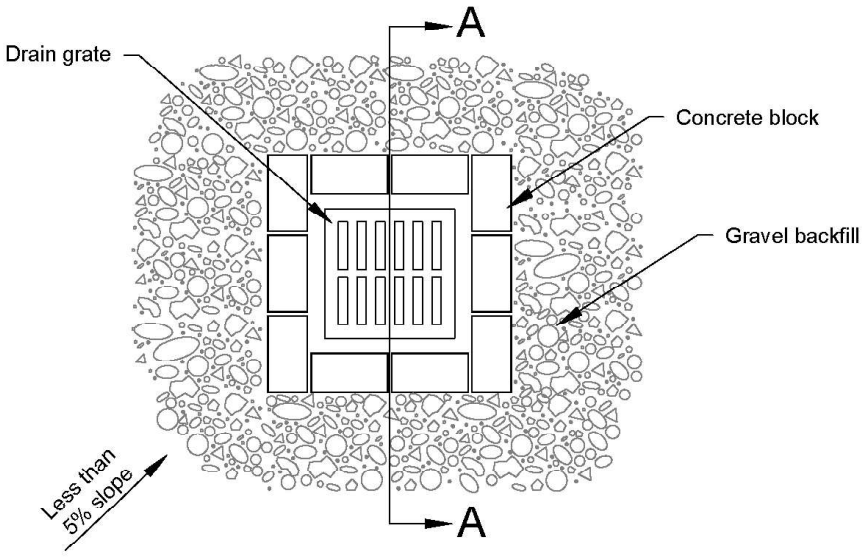
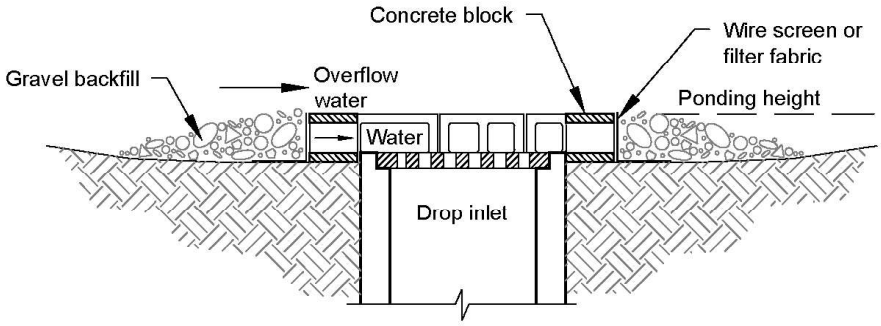


Figure II-3.17: Block and Gravel Filter



Plan View



Section A-A

Notes:

1. Drop inlet sediment barriers are to be used for small, nearly level drainage areas. (less than 5%)
2. Excavate a basin of sufficient size adjacent to the drop inlet.
3. The top of the structure (ponding height) must be well below the ground elevation downslope to prevent runoff from bypassing the inlet. A temporary dike may be necessary on the downslope side of the structure.

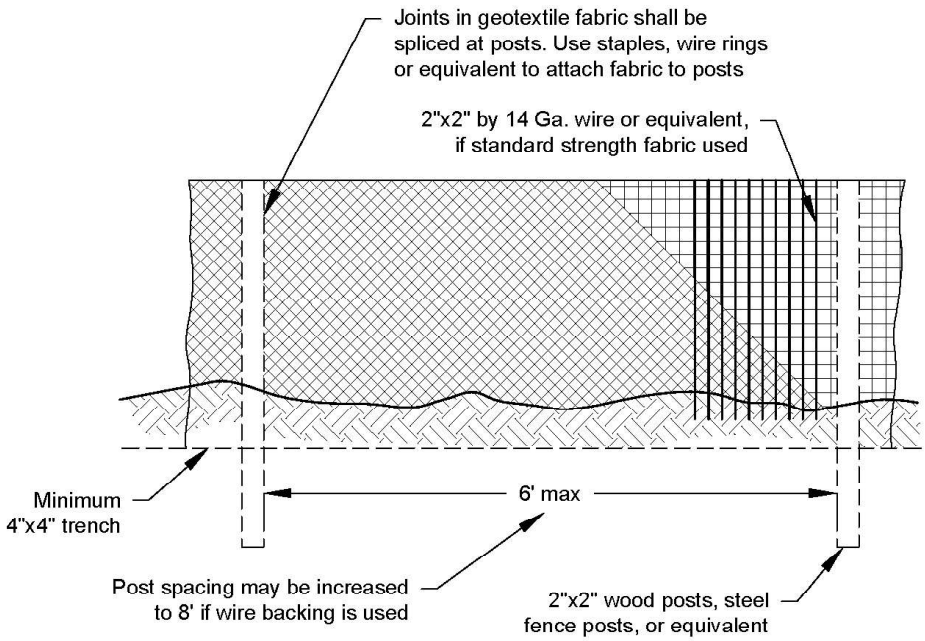
NOT TO SCALE

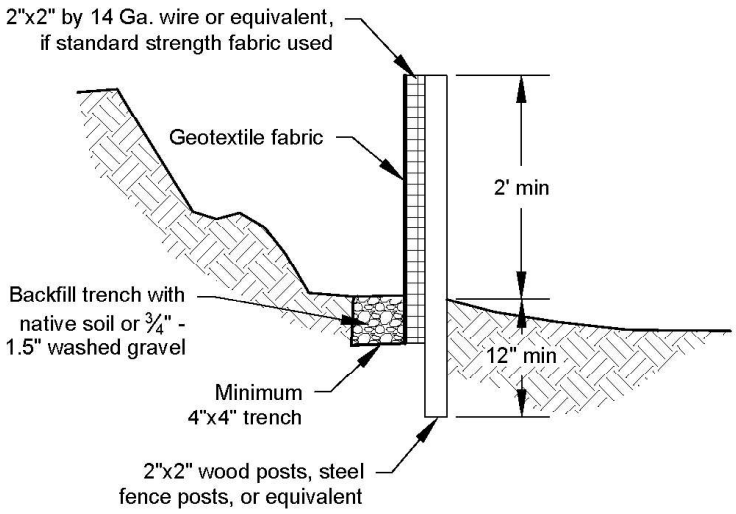
DEPARTMENT OF ECOLOGY
State of Washington

Block and Gravel Filter

Revised June 2016

Figure II-3.22: Silt Fence





NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Silt Fence

Revised July 2017

Appendix C – Construction Inspection Form

Construction Stormwater Site Inspection Form

Project Name _____ Permit # _____ Inspection Date _____ Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: _____

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear ☐ Cloudy ☐ Mist ☐ Rain ☐ Wind ☐ Fog ☐

A. Type of inspection: Weekly ☐ Post Storm Event ☐ Other ☐

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	☐	Clearing/Demo/Grading	☐	Infrastructure/storm/roads	☐
Concrete pours	☐	Vertical Construction/buildings	☐	Utilities	☐
Offsite improvements	☐	Site temporary stabilized	☐	Final stabilization	☐

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes ___ No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No ___
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No ___

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)						
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?						
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.						
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?						
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?						
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).						
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.						
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.						
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?						

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?						
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?						
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?						
	Is off-site storm water managed separately from stormwater generated on the site?						
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?						
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?						
7 Drain Inlets	Storm drain inlets made operable during construction are protected.						
	Are existing storm drains within the influence of the project protected?						
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?						
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?						
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?						
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?						
	Has secondary containment been provided capable of containing 110% of the volume?						
	Were contaminated surfaces cleaned immediately after a spill incident?						
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?						

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.						
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.						
	Dewatering has been done to an approved source and in compliance with the SWPPP.						
	Were there any clean non turbid dewatering discharges?						
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?						
12 Manage the Project	Has the project been phased to the maximum degree practicable?						
	Has regular inspection, monitoring and maintenance been performed as required by the permit?						
	Has the SWPPP been updated, implemented and records maintained?						
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?						
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?						
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.						
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?						
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.						

E. Check all areas that have been inspected. ✔

All in place BMPs ☐ All disturbed soils ☐ All concrete wash out area ☐ All material storage areas ☐
All discharge locations ☐ All equipment storage areas ☐ All construction entrances/exits ☐

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) _____ (Signature) _____ Date: _____

Title/Qualification of Inspector: _____