Permeable Pavement – Public ROW
Construction Inspection Checklist

Project Name and Plan No. _____

Project Street/Location _____

Contractor _____

Date of Preconstruction Meeting _____

Certification Requirements Submitted _____

Date Construction Started _____

Status of Materials Submittals and Approvals _____

This checklist is based on the permeable pavement design and construction requirements. It is intended to highlight items critical to the performance of permeable pavement that need to be verified first hand by a permeable pavement certified City of Seattle (COS) Seattle Department of Transportation (SDOT) construction inspector (Engineer) or a designated representative. Information about the construction provided by checklists, such as this one, and notes will be stored in the project files, to help evaluate performance of the facility over its design life. It will also be used to increase the breadth and depth of experience throughout the COS.

Visit 1: Geotextile and Aggregate placement **Date:** _____ **Engineer:** _____

	N/A	Yes	No	SWM/ Spec*	Comment/Action Required with Date
1. Construction Stormwater and Erosion Control (CSEC) measures are in place prior to construction					
▪ Site is appropriately graded to minimize potential run-on of contaminated soils.					
▪ CSEC, tree protection, and traffic control measures are in place to protect porous pavement areas from sediment and traffic until construction areas draining towards porous pavement are fully stabilized.					
▪ Adjacent property runoff interceptor (trench drains,					

berms or other measures used to prevent runoff from entering excavation zone) in place and free of significant debris.					
▪ If relevant, adjacent porous pavement protected from construction equipment by silt fences or by plywood and visqueen.					
▪ PSD catch basins downstream from site have CB protection such as sock.					
2. Subgrade preparation				5-06.3(6)	
▪ Final subgrade excavation completed during dry weather on the same day filter layer and aggregate reservoir base course placed.					
▪ Elevation checks by Contractor are performed. Contractor to record and report finish grades at all grading points indicated on the approved contract drawings to the Inspector for approval prior to placement of geotextile, if applicable, or subbase aggregate.					
▪ The permeable pavement area shall be isolated from over-compaction during construction by the use of clearly communicated and enforced "compaction limit lines" which can include dedicated travel ways for construction equipment and/or scarification of adversely compacted areas.					
▪ Small, light weight excavation, grading, and compaction equipment shall be selected to minimize the potential for over-compaction of the permeable pavement subbase.					
▪ If the permeable pavement area cannot be protected from sedimentation, excavation within 1-foot of final subgrade shall not be permitted until all sediment-producing construction activities have been completed and upstream areas have been permanently stabilized.					
3. If geotextile is specified, verify fabric meets				5-06.2, 5-	

specifications and that geotextile overlap is per design.				06.3(6)	
4. If relevant per design, check dams are graded, installed, and identified with an offset for future placement of a permanent marker.					
5. Overflow and/or and underdrain and flow restrictor, if required, is in place per design				SWM 4.4.7.2	
▪ Verify materials meet specification via lab testing or certificate of compliance					
▪ Prior to placement of aggregate, verify that subgrade soil is free of fine sediments. If sediment laden water has entered cell, Contractor shall remove top 3 inches of subgrade soil and replace with material per design.					
▪ Verify slotted pipe drains to the approved discharge point					
6. Aggregate, and leveling course if relevant, placement meets specifications				5-06.3(6)	
▪ Verify aggregate reservoir base course, and leveling course, sources and materials meet specifications via lab testing or certificate of compliance					
▪ Verify depth of aggregate, and leveling course, meet design					
▪ Verify that geotextile is wrapped up and over aggregate base course and then secured as specified.					
▪ Aggregate and leveling course are protected from foot traffic and other sources of sediment until pavement placement.					

Visit 2: Pavement Placement **Date:** _____ **Engineer:** _____

	N/A	Yes	No	SWM/ Spec*	Comment/Action Required with Date
1. CSEC measures in place and working properly					
2. All foot and vehicle traffic is rerouted until pavement is					

fully cured (stabilized or settled).					
3. Verify pavement sources and materials submittals have been received and approved by the Engineer or SPU Materials Laboratory, as required				5-06.3(2)	
4. Test section completed and accepted prior to placement of full installation				5-06.3(7)B	
▪ Engineer shall observe and accept each element of porous concrete construction					
▪ Minimum area of 225 square feet					
▪ Infiltration capabilities of installed pavement tested and meet performance specification. Minimum of 3 tests that demonstrate at least 100 inches per hour.				5-06.3(1)A2	
▪ Materials lab takes and tests three 4-inch cores					
5. If test panel approved, pavement materials placed per specifications and contract drawings					
▪ If not, then removal and proper placement is required.					
▪ Within 20 minutes of discharge from the truck, the concrete shall be compacted, finished and covered for curing per specification				5-06.3(7)C	
▪ Infiltration capabilities of installed pavement tested and meet performance specification. Minimum of 100 inches per hour.				5-06.3(1)A2	
▪ Materials lab tests for conformance					
▪ Surface and sides of porous pavement installation covered and secured to prevent runoff sediment and construction traffic from contacting porous pavement until all adjacent construction areas are stabilized.					
▪ Any sediment or debris that is deposited on porous pavement is removed and infiltration capabilities re-demonstrated.					
▪ After porous pavement placement, excess filter fabric removed.					
▪ Protection measures and traffic control removed					

upon completion of work.					

Visit 3: Post-Construction/overall site inspection **Date:** _____ **Engineer:** _____

	N/A	Yes	No	SWM/ Spec*	Comment/Action Required with Date
1. Final dimensions and grade (Record Drawings) submitted by Contractor					
2. Overall site is stabilized to prevent sediment laden water from entering permeable pavement					
3. CSEC removed					

*****Indicates the relevant section of the Director's Rule 17-2009, Volume 3 Stormwater Flow Control and Water Quality Treatment Technical Requirements Manual (SWM) or the Standard Specifications (Spec)