City of Seattle
Seattle Department of Transportation, Street Use
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Phone: (206) 684-3679

90% COMPLETE STREET IMPROVEMENT PLAN (SIP) CHECKLIST

Effective Date 4/5/2010

SDOT Project #_____ SDCI Project # _____

Project/Site **Address: _____**

Applicant Name _____

Acceptance of a 90% Complete Street Improvement Plan is required prior to Formal Review. See CAM 2201 and 2214 for additional information.

I CERTIFY THAT MY 90% COMPLETE STREET IMPROVEMENT PLAN MEETS ALL OF THE REQUIREMENTS OF CAM 2201 AND THE 90% COMPLETE SIP CHECKLIST. I UNDERSTAND THAT MY PLANS WILL NOT BE ACCEPTED IN FOR FORMAL REVIEW IF I FAILTO MEET THESE REQUIREMENTS.

Applicant Signature: _____ **Date:** _____

Civil Engineer Signature: _____ **Date:** _____

THE FOLLOWING CHECKLIST MUST BE COMPLETED AND SUBMITTED WITH THE 90% COMPLETE STREET IMPROVEMENT PLAN.

If the Street Improvement Plan includes any of the elements in bold, then the items listed under that specific element are required. The questions in *italics* are used to determine any additional requirements for specific elements. Read the question and circle the answer. If the answer to any of the questions in *italics* is yes, all of the items listed under the question are required.

ELEMENTS THAT REQUIRE 60% COMPLETE SIP APPROVAL

☐ **Privately owned encroachments**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ The Street Use Annual Permit Number is identified on the plans

☐ **Areaway - Installation or modification**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ Structural Calculations are provided
- Y / N *Is a foundation or footing for an areaway being installed or modified?*
  - ☐ Geotechnical Report is provided

☐ **Guardrails and/or Traffic Barriers**

- ☐ 60% Complete SIP Approval has been obtained

☐ **Bridge - Installation or modification**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ Geotechnical Report is provided
- ☐ Structural Calculations are provided

☐ **Retaining Walls**

- ☐ 60% Complete SIP Approval has been obtained
- Y / N *Is the retaining wall greater than 4 feet in height?*
  - ☐ Structural Calculations are provided

☐ Geotechnical Report is provided

Y / N *Does the retaining wall have a surcharge, is it located in an ECA, or is it located where the groundwater level is above the footing?*

☐ Geotechnical Report is provided

Y / N *Is the retaining wall per Standard Plan 800 or 801?*

☐ Retaining wall is shown and called out per Standard Plan 800 or 801

☐ **Rockery**

Y / N *Does the rockery deviate from Standard Plan 141?*

☐ 60% Complete SIP Approval has been obtained

Y / N *Is the rockery over 4 feet high?*

☐ 60% Complete SIP Approval has been obtained

☐ Geotechnical Report or is provided

☐ **Stairs**

☐ 60% Complete SIP Approval has been obtained

Y / N *Are the Stairs NOT per Standard plan 440a and 440b?*

☐ Structural Calculations are provided

Y / N *Are the Stairs located in an ECA?*

☐ Geotechnical Report is provided

☐ **Curb Bulbs**

☐ 60% Complete SIP Approval has been obtained

☐ Curb Table is provided on the plans and includes radii, stations and offsets, elevations for the PC, PRC, PT, ¼ points, and delta

☐ Elevations at the top of curb, at the existing and/or proposed flow lines, at the property line and at the back of walk are noted and identified

☐ **Curb Setbacks**

☐ 60% Complete SIP Approval has been obtained

☐ Curb Table is provided on the plans and includes radii, stations and offsets, elevations for the PC, PRC, PT, ¼ points, and delta

☐ Elevations at the top of curb, at the existing and/or proposed flow lines, at the property line and at the back of walk are noted and identified

☐ **Curbs that are not per Standard Plan**

☐ 60% Complete SIP Approval has been obtained

☐ **New curb where no curb existed before or modification to existing curb alignment**

☐ 60% Complete SIP Approval has been obtained

☐ **New or modified curb return**

☐ 60% Complete SIP Approval has been obtained

☐ Curb Table is provided on the plans and includes radii, stations and offsets, elevations for the PC, PRC, PT, ¼ points, and delta

☐ Elevations at the top of curb, at the existing and/or proposed flow lines, at the property line and at the back of walk are noted and identified

- ☐ **New or Modified Traffic Calming Devices**
  - ☐ 60% Complete SIP Approval has been obtained
- ☐ **New or Modified Road Width**
  - ☐ 60% Complete SIP Approval has been obtained
- ☐ **New or Modified Road Alignment**
  - ☐ 60% Complete SIP Approval has been obtained
- ☐ **New or Modified Profile Grade for Centerline**
  - ☐ 60% Complete SIP Approval has been obtained
- ☐ **New Pavement section and / or type that does not meet the Street and Sidewalk Pavement Opening and Restoration Rules**
  - ☐ 60% Complete SIP Approval has been obtained
  - ☐ Design Specifications are provided
- ☐ **New or Replaced Sidewalk that is not per standard plan (width, scoring and materials)**
  - ☐ 60% Complete SIP Approval has been obtained
- ☐ **Permeable Sidewalk**
  - ☐ 60% Complete SIP Approval has been obtained
  - ☐ Design Specifications are provided
- ☐ **New or Modified Bike Trail or Path**
  - ☐ 60% Complete SIP Approval has been obtained
- ☐ **Proposed Cross Slopes that do not meet the minimum and maximum percentages identified in the ROWI Manual**
  - ☐ 60% Complete SIP Approval has been obtained
- ☐ **New or Modified Driveway that is not per Standard Plan**
  - ☐ 60% Complete SIP Approval has been obtained
- ☐ **Cross Section that is not per Standard Plan 030**
  - ☐ 60% Complete SIP Approval has been obtained
- ☐ **New or Revised Pavement Markings (including marked cross walks)**
  - ☐ 60% Complete SIP Approval has been obtained
  - ☐ Pavement Markings are shown and labeled on the plans
- ☐ **Signal System Elements Proposed or Modified**
  - ☐ 60% Complete SIP Approval has been obtained
  - ☐ Components labeled as removed, replaced, relocated, connected to new equipment, or maintained in place
- ☐ **New Signal System or Proposed Change in Signal Operations**
  - ☐ 60% Complete SIP Approval has been obtained
  - ☐ Phase Diagram and Wiring Schedule is provided
  - ☐ Components labeled as removed, replaced, relocated, connected to new equipment, or maintained in place
- ☐ **Proposed Grade Changes Around Existing Signal Equipment or Poles**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ Cross Sections at proposed grade changes are provided

☐ **New or Relocated SCL Infrastructure**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ Components are labeled with type and size

☐ **New or Relocated Metro Infrastructure**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ Components are labeled with type and size
- ☐ Poles are labeled as to remain, to be protected, to be removed, to be replaced, or to be relocated

☐ **New or Relocated poles (other than SCL or Metro)**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ Poles are labeled as to remain, to be protected, to be removed, to be replaced, or to be relocated
- ☐ Type and size of poles are identified

Y / N *Are the poles to be installed by others?*

- ☐ Poles are labeled as being installed "Under Separate Permit"

☐ **New or Relocated Street or Pedestrian Lighting**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ Type of poles, luminaire, bracket arm, etc are identified and location is shown
- ☐ Associated hand holes and conduits are shown and labeled with type and size
- ☐ Service location is shown and identified
- ☐ One line wiring diagram is provided showing the wire size and circuit

☐ **Trees Proposed to be Removed or Relocated**

- ☐ 60% Complete SIP Approval has been obtained

☐ **ROW used for Green Factor Credits**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ Green Factor areas are clearly identified
- ☐ Green Factor element details are shown (type & number of plants, rain garden details, etc)

☐ **Alley Drainage Proposed that is not per Standard Plan 241 and CAM 1180** (closed contour alleys)

- ☐ 60% Complete SIP Approval has been obtained

☐ **More than 2,000 SF of new plus replaced hard surface**

- ☐ 60% Complete SIP Approval has been obtained
- ☐ On-site Stormwater Management – List Approach Calculator is provided – **Provide entire workbook in Excel format.**

☐ **Detention Proposed within the ROW**

Detention is required if the amount of new plus replaced hard roadway surface exceeds 10,000 SF in a combined sewer, capacity constrained, or creek basin.

- ☐ 60% Complete SIP Approval has been obtained

☐ Drainage Report is provided

☐ Detail of the flow control structure is provided (orifice size, dimensions, elevations, etc)

Y / N *Is the project proposing a non-standard detention facility?*

☐ Maintenance manual is provided

☐ **Water Quality Proposed in the ROW**

Water quality treatment is required in a non-combined sewer basin (see SMC 22.805.060.D).

☐ 60% Complete SIP Approval has been obtained

☐ Drainage Report is provided

☐ Detail for the water quality system is provided

Y / N *Is the project proposing a non-standard water quality facility?*

☐ Maintenance manual is provided

☐ **Infiltrating Bioretention or Rain Garden Proposed or**

☐ **Modified** 60% Complete SIP Approval has been

☐ obtained Drainage Report is provided

Y / N *Is the Drainage Swale or Rain Garden in a peat settlement area, ECA or projects proposing infiltration?*

☐ Geotechnical Report is provided pursuant to Directors' Rules DPD 21-2015/SPU DWW 200 Appendix D – Subsurface Characterization and Infiltration Testing for Infiltration Facilities

☐ **Water Main Installation, Extension, or Replacement**

☐ 60% Complete SIP Approval has been obtained

☐ Pipe type and size are identified

☐ Components are labeled (water valves, hydrants, blow offs, etc)

☐ Pipe type, size and depth are noted in the profile

☐ Components labeled in the profile

☐ **PSD Installation, Extension, or Replacement**

☐ 60% Complete SIP Approval has been obtained

☐ Pipe type, length, size, and slope are identified on plans

☐ Pipe type, length, size, and slope are identified in the profile

Y / N *Is the PSD on private property?*

☐ Easement is shown and identified on plans

☐ **PSS Installation, Extension, or Replacement**

☐ 60% Complete SIP Approval has been obtained

☐ Pipe type, length, size, and slope are identified on plans

☐ Pipe type, length, size, and slope are identified in the profile

Y / N *Is the PSS on private property?*

☐ Easement is shown and identified on plans

☐ **60% Complete SIP Plans**

- ☐ 60% Complete Plans are attached if approval has been obtained.

☐ **Base Map** (always required)

- ☐ Base map is screened back and readable on the plan sheets

☐ **Large Project Drainage Control**

Y / N *Is the project disturbing more than 5,000 square feet in the right of way, including staging areas?*

- ☐ Comprehensive Drainage Control Plan, Inspection and Maintenance Schedule, and Construction Stormwater Control Plan per SMC 22.807.020 Drainage control Review and Application Requirements.

☐ **General Notes**

- ☐ Standard General Notes including Water Service Notes are shown on Title Sheet

Y / N *Is SPU Sewer or Drainage infrastructure being installed or modified?*

- ☐ Standard SPU Sewer and Drainage Notes are shown on Title Sheet

Y / N *Is SPU Water Main Infrastructure being installed or modified?*

- ☐ Standard SPU Water Main Notes are shown on Title Sheet

Y / N *Is Lighting or Signal infrastructure is being installed or modified?*

- ☐ Standard Lighting and Signal Notes are shown on Title Sheet

☐ **Vicinity Map shown on Title Sheet** (always required)

- ☐ Scaled at 1" = 200'
- ☐ Area of work in the ROW is shaded
- ☐ North Arrow is oriented to the top or left of the page
- ☐ Sheet Numbers are identified on the Vicinity map

☐ **SDOT SIP Title Block used for all sheets** (always required)

- ☐ Filled out per CAM 2201
- ☐ Plan has Engineer's Stamp on it

☐ **Benchmarks** (always required)

- ☐ Two Vertical benchmarks are shown.
- ☐ Two horizontal benchmarks.
- ☐ Benchmarks used are a reasonable distance from the project

☐ **Exceptions have been granted from SDCI**

- ☐ All granted exceptions are noted on the Title Sheet

☐ **Deviations have been approved by SDOT**

- ☐ All approved deviations are noted on the Title Sheet

☐ **North Arrow is provided on all sheets and is oriented to the top or left** (always required)

☐ **Bar Scale is shown and scaled correctly** (always required)

☐ **Horizontal Scale is 1"=10'** (always required)

☐ **Minimum Lettering size is 0.12" for improvements and dimensions and 0.08" for base maps** (always required)

☐ **Profile**

Y / N *Is the project installing a new curb where a curb did not exist?*

☐ Profile is provided above the plan view and lines up with the plan view

Y / N *Is the project modifying the horizontal curb alignment?*

☐ Profile is provided above the plan view and lines up with the plan view

Y / N *Is the project installing 6 feet or greater of roadway widening with no existing curb?*

☐ Profile is provided above the plan view and lines up with the plan view

Y / N *Is the project installing or modifying a Main Line (PSD, PSS, or Water)?*

☐ Profile is provided above the plan view and lines up with the plan view

Y / N *Is the project improving an unimproved or unopened ROW?*

☐ Profile is provided above the plan view and lines up with the plan view

Y / N *Is the project upgrading or modifying the pavement surface type or changing the grade of existing pavement surface*?

☐ Profile is provided above the plan view and lines up with the plan view

Y / N *Is a profile required per any of the above requirements?*

☐ Vertical Scale is 1" = 5'

☐ Top of Curb, Centerline of roadway, and slopes are shown and identified

☐ Crown of roadway is shown and slopes are identified

☐ Existing and proposed utilities are shown and identifiedExisting

☐ and proposed utility crossings are shown and identified

☐ Proposed manholes, catch basins, and/or inlets structure are shown and called out ☐**N/A**

☐ Rim and Invert elevations are shown for proposed manholes, catch basins and inlets along with the inverts for all pipes entering and exiting the structures ☐**N/A**

☐ Catch basin and inlet connections to outfall is shown ☐**N/A**

☐ Type, length, and slope for all pipe connections for manholes, catch basins and inlets are provided ☐**N/A**

☐ **Vertical Curves**

☐ All vertical curves are shown and identified in the profile

☐ Vertical curves are dimensions are identified

☐ PVI's are labeled with station and elevations

☐ Stations and elevations for beginning and end points are identified

☐ **Grade Breaks**

☐ Grade breaks are shown and identified in the profile and include a station and elevation

☐ **Typical Cross Sections** (always required)

☐ A typical cross section in provided **on the plan sheets** for each street or alley frontage

☐ **Station Specific Cross Sections**

NOTE: Cross sections listed below must be submitted on separate 8 ½" X 11" or 11" X 17" sheets with the engineers' stamp and signature on them. The following cross sections should not be included as part of the SIP plan set.

- ☐ Cross section at centerline of each driveway is provided
- ☐ Cross sections are provided at each entrance within 10 feet of the right of way margin
- ☐ Elements in the cross section are labeled (curb, sidewalk, etc)
- ☐ Elements in the cross section are dimensioned
- ☐ Elevations for top of curb, centerline of roadway, back of walk, and property line are provided in the cross section
- ☐ Elements in the cross section are called out per standard plan
- ☐ Existing grades are shown in the cross section
- ☐ Proposed grades are shown in the cross section
- ☐ Pavement sections are identified in the cross section

☐ **Proposed New Roadway or Alley or New Curb where one did not exist**

- ☐ Cross Section are provided every 25 feet

☐ **Revising Grade of Existing Roadway or Alley**

- ☐ Cross Section are provided every 25 feet

☐ **Modifying Existing Driving Surface Width**

- ☐ Cross Section are provided every 25 feet

☐ **Station, offsets, and dimensions** (always required)

- ☐ Stations and Offsets or dimensions are shown for all elements (offsets are not required for catch basins or inlets)
- ☐ Stations are provided at beginning and end points and include elevations
- ☐ Stations are provided at match points and include elevations

☐ **Building Outline** (always required)

- ☐ Building outline is shown on the plans
- ☐ All access points, both vehicular and pedestrian, are shown on the plans
- ☐ Elevations for flow line, top of curb, back of walk, and property line are provided for all access points at each end of the access point
- ☐ Electrical service connection to the building is shown and called out as "Under Separate Permit" (only required if service connection location is located on a frontage that is being improved)

☐ **Contour Lines** (always required)

- ☐ All existing and proposed contour lines are shown
- ☐ The plans show how the finished contours tie into the existing contours

☐ **Flow Lines Shown** (always required)

- ☐ Plans show how drainage from project flows to an existing or new catch basin or inlet

☐ **Inlets**

- ☐ Called out per Standard Plan
- ☐ Rim and Invert elevations are provided
- ☐ Connection to a catch basin is shown
- ☐ Pipe type, length, and slope is provided

☐ **Catch Basins**

- ☐ Called out per Standard Plan
- ☐ Rim and Invert elevations are provided
- ☐ Connection to the main or other outfall is shown
- ☐ Pipe type, length, and slope is provided

☐ **Manholes**

- ☐ Called out per Standard Plan
- ☐ Rim and invert elevations of all pipes entering or exiting the structure are provided

☐ **Side Sewer and Service Drain** (only required if service connection location is located on a frontage that is being improved)

- ☐ All Side Sewer and Service Drain connections are shown and called out "Under Separate Permit"
- ☐ Estimated invert elevation at the connection to the main is shown

☐ **King County Sewer Mains**

- ☐ All connections to King County Metro Sewer lines are shown and called out "Under Separate Permit"

☐ **Water Meters** (only required if water service connection location is located on a frontage that is being improved)

- ☐ The location of all proposed water meters is shown and called out “Under Separate Permit”
- ☐ All water meters are labeled as existing, new, to be retired, or to be reused.
- ☐ The type and size of all water meters are provided and drawn to scale

☐ **Water Vaults** (only required if water service connection location is located on a frontage that is being improved)

- ☐ The location of all proposed water vaults are shown
- ☐ All water vaults are labeled as existing, new, to be retired, or to be reused
- ☐ The type and size of all water vaults are provided and drawn to scale

☐ **Curbs to be repaired or replaced in the same location**

- ☐ Called out per Standard Plan
- ☐ Correct Standard Plan called out for the pavement section

☐ **Pavement Restoration**

- ☐ Section as specified in the Street and Sidewalk Pavement Opening and Restoration Rule 6.4 & 7.5
- ☐ All cuts are perpendicular and/or parallel to the centerline of the roadway

Y / N *Is the Pavement Restoration greater than 100 LF of Asphalt Concrete Surface without reflective cracking at PCC joints?*

- ☐ Full lane restoration is shown

Y / N *Is the Pavement Restoration PCC?*

- ☐ Joint layout is shown for intersection areas

Y / N *Are there trenches for Utilities?*

- ☐ Extent of restoration is shown
- ☐ Restoration area is per the Street and Sidewalk Pavement Opening and Restoration Rule
- ☐ Restoration area includes the entire zone of influence (Minimum 5' + 2(d/4))

Y / N Does *the pavement restoration include an Existing Non-Standard Drainage Structures (catch basins or inlets)?*

- ☐ Upgrading the structure and connection to the current standard is shown and called out

Y / N *Is the pavement restoration area within a marked crosswalk?*

- ☐ Restoration for the pavement area and the entire crosswalk markings are shown

Y / N *Is 6' or more of pavement being restored within an existing marked crosswalk?*

- ☐ Required Stop Bar is shown and called out

☐ **New or Modified Driveway**

- ☐ Called out per Standard Plan
- ☐ Elevations at flow line, back of walk, and property line are provided for each end of the driveway
- ☐ The driveway is located a minimum of 5 feet from the extended property line

Y / N *Is the project located Downtown?*

- ☐ The driveway is located a minimum of 40' from the projected curb line of the nearest intersection

☐ **Utility Vaults**

- ☐ All proposed utility vaults are shown
- ☐ The location, type and size of utility vaults are identified and drawn to scale
- ☐ The utility vaults are called out "Under Separate Permit"

☐ **Utility Hand Holes**

- ☐ All proposed hand holes are shown and drawn to scale
- ☐ The location, type and size of all hand holes are identified
- ☐ The electrical hand holes are called out "Under Separate Permit"

☐ **Utility Ducts**

- ☐ All proposed utility ducts are shown and drawn to scale
- ☐ The location, type and size of all utility ducts are identified
- ☐ The utility ducts are called out "Under Separate Permit"

☐ **Trees**

- ☐ All code required and / or proposed street trees are shown
- ☐ All required and proposed trees within the ROW are labeled with size and species

☐ **Tree Pits**

- ☐ Proposed modification to existing tree pits are shown
- ☐ All proposed tree pits are dimensioned

☐ **Landscaping**

- ☐ All landscaping within the right of way is shown and identified

☐ **Paved Planting Strip**

- ☐ Proposed paved planting strip area is shown and the materials are identified

☐ **Median Landscaping**

- ☐ Proposed landscaping or planting in an existing median is shown

☐ **Project is located adjacent to Park Property – Boulevard or Park**

☐ **Project is proposing Temporary or Permanent Access through or across Park's Property**

☐ **Curb Ramps**

- ☐ Called out per standard plan
- ☐ A 4' x 4' landing is provided
- ☐ The wing slope does not exceed 1':10"
- ☐ The ramp slope does not exceed 1":12" (8.33%), 9% acceptable
- ☐ Companion Ramps identified and labeled existing, existing to be retrofitted, or new and called out per standard plan
- ☐ A minimum 1 foot separation between curb ramps is provided
- ☐ A minimum 1 foot clearance from the ramp to any vertical obstruction is provided
- ☐ Two ramps are provided at each corner
- ☐ Curb ramps are dimensioned along the curb face (ramp and wings)
- ☐ Elevations are provided at the flow line, top of curb, top of ramp and at the property line at all ¼ points and at the center of the curb ramps.

☐ **The slope adjacent to the sidewalk is greater than 2:1 or there is a vertical drop of more than 2.5' within 4' of the edge of the sidewalk**

- ☐ A handrail or fence is provided

☐ **Road Tapers**

- ☐ Roadway tapers are identified and dimensioned

☐ **Signage**

- ☐ The location and type of all proposed signage is shown and identified

☐ **Bike Racks**

Y / N *Are the proposed bike racks to be owned and maintain by the City?*

- ☐ Bike racks are per the Seattle Right-of-Way Improvements Manual and meet the requirements found at www.seattle.gov/transportation/bikeracks.htm

Y / N *Are the proposed bike racks to be owned and maintained by the property owner?*

- ☐ Bike racks are labeled as "Under Separate Permit" and the Annual Permit Number is provided