



**90% COMPLETE STREET
 IMPROVEMENT PLAN (SIP)
 CHECKLIST**
 Revised 7/22/09

SDOT Project # _____ **DPD 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 FAIL TO 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
 - Geotechnical Report is provided
 - Structural Calculations are 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?*
 - Geotechnical Report is provided
 - Structural Calculations are provided

90% Complete SIP Intake Checklist - Elements Requiring 60% Complete SIP Approval

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

60% Complete SIP Approval has been obtained

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

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

90% Complete SIP Intake Checklist - Elements Requiring 60% Complete SIP Approval

- New or Modified Road Width**
 - 60% Complete SIP Approval has been obtained
- New Road Alignment**
 - 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 (standard 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 Channelization**
 - 60% Complete SIP Approval has been obtained
 - Channelization is shown and labeled on the plan
- New or Revised Marked Crosswalks**
 - 60% Complete SIP Approval has been obtained
- 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

90% Complete SIP Intake Checklist - Elements Requiring 60% Complete SIP Approval

- 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
 - 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 elements details are shown (type and 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

- Detention Proposed within the ROW**
 - 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**
 - 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

- Drainage Swale 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

- 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

90% Complete SIP Intake Checklist Standard Elements

- Base Map** (always required)
 - Base map is screened back and readable on the plan sheets
- General Notes**
 - Standard General Notes shown on Title Sheet (*always required*)
 - Y / N *Is SPU Sewer or Drainage infrastructure is being installed or modified?*
 - Standard SPU Sewer and Drainage Notes are shown on Title Sheet
 - Y / N *Is SPU Water infrastructure is being installed or modified?*
 - Standard SPU Water 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
- Benchmarks** (always required)
 - Two Vertical benchmarks are shown with Owner, Identifier, Description, Location, and Elevation information provided.
 - Two horizontal benchmarks are shown with Owner, Identifier, Description, Location, Northing and Easting information provided.
 - Benchmarks used are a reasonable distance from the project
- Exceptions have been granted from DPD**
 - All granted exceptions are noted on the Title Sheet
- Deviations have been approved by SDOT**
 - All approved deviations are noted on the Title Sheet
- SDOT SIP Title Block used for all sheets** (always required)
 - Filled out per CAM 2201
 - Plan has Engineer's Stamp on it
- 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)

90% Complete SIP Intake Checklist Standard Elements

Profile

- Y / N *Is the project installing a new curb where a curb did not exist?*
 Profile is provided above the plan view
- Y / N *Is the project modifying a curb alignment?*
 Profile is provided above 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
- Y / N *Is the project installing or modifying a Main Line (PSD, PSS, or Water)?*
 Profile is provided above the plan view
- Y / N *Is the project improving an unimproved or unopened ROW?*
 Profile is provided above 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
- Y / N *Is a profile required per any of the above requirements?*
- Vertical Scale is 1" = 5'
 - Top of Curb and Centerline of roadway is shown and identified
 - Crown of roadway is shown and identified
 - Existing and proposed utilities are shown and identified
 - All 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

90% Complete SIP Intake Checklist Standard Elements

- Cross Sections** (always required)
 - A typical cross section is provided **on the plan sheets** for each street or alley frontage

NOTE: Cross sections listed below may be submitted on the plan sheets or on separate 8 ½" X 11" or 11" X 17" sheets.

 - Cross section for each end of the project is provided
 - Cross section at centerline of each driveway is provided
 - Cross sections are provided at each entrance within 10 feet of the property line
 - 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**
 - Cross Section are provided every 25 feet
- Revising Grade of Existing Roadway or Alley**
 - Cross Section are provided every 25 feet
- Station, offsets, and dimensions** (always required)
 - Offsets or dimensions are shown for all elements
 - Stations are provided at 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
 - 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 new 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

90% Complete SIP Intake Checklist Standard Elements

- 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
- 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
- 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"
 - 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
- 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
- Curbs to be repaired or replaced in the same location**
 - Called out per Standard Plan 410
 - Correct Standard Plan called out for the pavement section

90% Complete SIP Intake Checklist Standard Elements

- Pavement Restoration**
 - Section as specified in the Street and Sidewalk Pavement Opening and Restoration Rule 6.4 and 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
 - 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 both the pavement area and the 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 property line
 - Y / N *Is the project located Downtown?*
 - The driveway is located a minimum of 40' from the intersection
- Electrical Vaults**
 - All proposed electrical vaults are shown
 - The location, type and size of electrical vaults are identified
 - The electrical vaults are called out "Under Separate Permit"
- Electrical Hand Holes**
 - All proposed hand holes are shown
 - The location, type and size of all hand holes are identified
 - The electrical hand holes are called out "Under Separate Permit"

90% Complete SIP Intake Checklist Standard Elements

- Utility Ducts**
 - All proposed utility ducts are shown
 - 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)
- 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

90% Complete SIP Intake Checklist
Standard Elements

Pay Station or Parking Meter

The location and type of all proposed pay stations or parking meters are shown

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

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