

90% COMPLETE STREET IMPROVEMENT PLAN (SIP) CHECKLIST

Effective Date 8/4/21

SDOT Project #: _____ SDCI Project #: _____

Project/Site Address: _____

Applicant Name: _____

Approval of a 60% Complete Street Improvement Plan is required for projects that contain non-standard elements in the right of way as identified in CAM 2213. 60% Complete Street Improvement Plan (SIP) Approval is obtained through the SDOT SIP Design Guidance Process. See CAM 2211 and 2213 for more information.

I CERTIFY THAT MY 60% COMPLETE STREET IMPROVEMENT PLAN MEETS ALL OF THE REQUIREMENTS ON THE 60% COMPLETE SIP CHECKLIST. I UNDERSTAND THAT MY PLANS WILL BE REJECTED 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

Structural Calculations are provided

___ Is a foundation or footing for an areaway being installed or modified? Y/N

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

___ Is the retaining wall greater than 4 feet in height? Y/N

Structural Calculations are provided

Geotechnical Report is provided

___ 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? Y/N

Geotechnical Report is provided

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

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

Rockery

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

60% Complete SIP Approval has been obtained

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

60% Complete SIP Approval has been obtained

Geotechnical Report or is provided

Stairs

60% Complete SIP Approval has been obtained

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

Structural Calculations are provided

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

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, 1/4 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

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

- 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 SPU Director's Rule DWW-210 (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 or new plus replaced hard roadway surface exceeds 10,000 SF in a non-combined sewer (see current Stormwater Code for specific conditions related to your project).

60% Complete SIP Approval has been obtained

Drainage Report is provided

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

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

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

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

Maintenance manual is provided

Infiltrating Bioretention or Rain Garden Proposed or Modified

60% Complete SIP Approval has been obtained

Drainage Report is provided

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

Geotechnical Report is provided pursuant to Directors' Rules SDCI 10-2021/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

___ Is the PSD on private property? Y/N

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

Is the PSS on private property? Y/N

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

- ___ Is the project disturbing more than 5,000 square feet in the right of way, including staging areas? Y/N
- 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
- ___ Is SPU Sewer or Drainage infrastructure being installed or modified? Y/N
- Standard SPU Sewer and Drainage Notes are shown on Title Sheet
- ___ Is SPU Water Main Infrastructure being installed or modified? Y/N
- Standard SPU Water Main Notes are shown on Title Sheet
- ___ Is Lighting or Signal infrastructure is being installed or modified? Y/N
- 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

- ___ Is the project installing a new curb where a curb did not exist? Y/N
- Profile is provided above the plan view and lines up with the plan view
- ___ Is the project modifying the horizontal curb alignment? Y/N
- Profile is provided above the plan view and lines up with the plan view

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

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

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

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

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

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

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

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

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

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 identified

Existing 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 is 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 1/2" 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

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

- Full lane restoration is shown

___ Is the Pavement Restoration PCC? Y/N

- Joint layout is shown for intersection areas

___ Are there trenches for Utilities? Y/N

- 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 $5' + 2(d/4)$)

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

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

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

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

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

- 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

___ Is the project located Downtown? Y/N

- 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%)
- 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

- ___ Are the proposed bike racks to be owned and maintain by the City? Y/N
- Bike racks are per the Seattle Right-of-Way Improvements Manual and meet the requirements found at www.seattle.gov/transportation/bikeracks.htm
- ___ Are the proposed bike racks to be owned and maintained by the property owner? Y/N
- Bike racks are labeled as "Under Separate Permit" and the Annual Permit Number is provided