EXHIBIT A
STATEMENT OF WORK (SOW) – AMENDMENT 4
Engineering, Land Surveying and Related Services
for
NE 42ND AVENUE OVER NE LOMBARD STREET BRIDGE DESIGN

Project Name: NE 42nd Ave Over NE Lombard St Bridge Design	**Contract Number:** 30006826
Roadway Name: NE 42nd Avenue	**Work Order:** Amendment 4
Completion Date (unchanged): 5/30/2024	
Owner: Portland Bureau of Transportation (Agency) Winston Sandino (Project Manager) 1120 SW 5th Ave, Suite 800 Portland, OR 97204 503.823.5767 (Phone) Winston.Sandino@portlandoregon.gov	**Consultant:** David Evans and Associates Doug Johnson, PE (Project Manager) 5121 Skyline Village Loop S, Suite 200 Salem, OR 97306 503.408.1309 (Phone) dmj@deainc.com

AMENDMENT OVERVIEW

This amendment revises the SOW for the project to include the redesign of the stormwater connection downstream of the water quality swale as requested by BES, and update the Erosion and Sediment Control (ESC) design to meet the requirements of the newly updated 1200-CA permit with Oregon Department of Environmental Quality (DEQ).

EXHIBITS

The following exhibits are incorporated into this Amendment by this reference:

Exhibit A: Statement of Work (SOW)

Exhibit B: Breakdown of Costs (BOC) dated 8/10/2023

PROJECT SCHEDULE

Deliverables for the additional tasks will be submitted within 3 months of NTP for this amendment.

TASKS

Task 8.8.1 Stormwater Columbia Blvd. Connection Design (New Task)

Consultant shall:

- Provide additional survey to collect invert elevations at stormwater MH AAL526 and MH AAL527 and sanitary sewer MH ANY199 and ANY198 and collect topographic data along proposed sewer alignment.
- Provide traffic control on Columbia Blvd. for additional survey.
- Process survey data to incorporate additional survey data into project design files.
- Redesign/grade swale to allow for connection to Columbia Blvd storm sewer with new maintenance hole connection.
- Update Erosion Control Sheet 2D-9.
- Update notes on Stormwater Conveyance Plan Sheet D-7.
- Update design and notes on Drainage Detail Sheet D-10, and remove profile.
- Add sheet: show storm alignment from swale to Columbia Blvd. connection in plan and profile.
- Add sheet: add detail sheet for grated manhole at facility outlet.
- Update specifications and estimate to incorporate stormwater revisions.

Task 8.8.2 Revise Erosion Control for 1200-CA (New Task)

Consultant shall update the Erosion and Sediment Control (ESC) design to meet the requirements of the newly updated 1200-CA permit with Oregon Department of Environmental Quality (DEQ). The ESC design will accommodate three (3) stages, corresponding to the construction staging as shown in the final plans. To meet the 1200-CA permit requirements, the number of Erosion Control plan sheets are increased from nine (9) sheets to thirty (30) sheets. The existing landscaping sheets will be updated to cover Stage 3.

The Consultant must provide for the following three stages of construction:

- Stage 1: Demolition, clearing, grading, excavating, and land development
- Stage 2: Street utilities and vertical construction
- Stage 3: Final landscaping and site stabilization

The ESC submittals included in the Final PS&E Submittal Package are amended to include the following site information and ESC features as applicable:

- Separate sheets for existing conditions, Stage 1, and Stage 2 of construction.
- Update landscaping sheets to cover Stage 3.
- This requires the creation of (21) new sheets, the overhaul of (9) existing sheets, minor revisions to (13) existing sheets, the overhaul of the original design file, the creation of a new design file, and the creation of a second model in the new design file.
- A new Existing Conditions Map of the NE 42nd Avenue project area, showing additional site analysis information required for DEQ, with notes to document features which are not applicable to the project:
    - Total site area (or length) and total disturbed area
    - Sensitive resources, including streams and wetlands, etc. crossings with waters of the state, discharge points and receiving water bodies within 0.5 mile of the project.

- Any unique problem or special restriction areas such as Water Quality Limited Waterways or areas of continued soil disturbance
- Roads and features for DEQ to locate and access the site
- Steep slopes clearly labeled with the words "Steep Slope" and include the percentage grade
- Any water of the state crossings clearly labeled with words "water crossing"
- Locations of springs, wetlands, surface waters, and all waters of Oregon within and one mile downstream of the site's discharge point (description with text is acceptable where location of water exceeds Site Map limits)
- Onsite drain catch basin depicting inlet protections, and a description of the type of catch basins used (e.g., field inlet, curb inlet, grated drain, and combination)
- Existing or proposed drywells or other Underground Injection Controls (UICs)
- Drinking water wells on site or adjacent to the site
- Receiving water(s). Stormwater and authorized non-stormwater discharge point locations, including:
  - Locations where stormwater and authorized non-stormwater will be discharged to storm drain inlets; and
  - Locations where stormwater and authorized non-stormwater will be discharged directly to surface waters of the state;
- Type and extent of pre-construction cover on the site clearly labeled (e.g., vegetative cover, forest, pasture, pavement, structures)
- Potential construction staging, storage, disposal and stockpile areas
- Locations where land disturbing activities will occur (note any phasing), including any demolition activities
- Locations where sediment, soil, or other construction materials will be stockpiled
- Temporary and permanent stormwater conveyance systems;
- Location of sanitary facilities
- Detention ponds, Storm drain piping, and inflow and outflow details (e.g., bottom elevations and inverts)
- Locations of all potential pollutant-generating activities

The following is the updated estimated sheet list for this work:

Number of sheets	Sheet Name
1	ESCP COVER SHEET
9	ESCP EXISTING CONDITIONS
9	ESCP DEMO, CLEARING, GRADING, EXCAVATING, AND LAND DEVELOPMENT
9	ESCP STREET, UTILITIES AND VERTICAL CONSTRUCTION
2	ESCP BMP DETAILS
13	ESCP FINAL LANDSCAPING AND SITE STABILIZATION

Task 13.07 ODOT Erosion Control (Additional Effort for 1200-CA)

Consultant shall update the Erosion and Sediment Control (ESC) design to meet the requirements of the newly updated 1200-CA permit with Oregon Department of Environmental Quality (DEQ). The ESC design will accommodate three (3) stages, corresponding to the construction staging as shown in the final plans. To meet the 1200-CA permit requirements, the number of Erosion Control plan sheets are increased from four (4) sheets to thirteen (13) sheets.

The Consultant must provide for the following three stages of construction:

- Stage 1: Demolition, clearing, grading, excavating, and land development
- Stage 2: Street utilities and vertical construction
- Stage 3: Final landscaping and site stabilization

The ESC submittals included in the Final PS&E Submittal Package are amended to include the following site information and ESC features as applicable:

- Separate sheets for existing conditions, Stage 1, Stage 2, and Stage 3 of construction.
- This requires the creation of (9) new sheets, the overhaul of (4) existing sheets, the overhaul of the original design file, the creation of a new design file, and the creation of a second model in the new design file.
- A new Existing Conditions Map of the NE Lombard Street project area, showing additional site analysis information required for DEQ, with notes to document features which are not applicable to the project:
    - Total site area (or length) and total disturbed area
    - Sensitive resources, including streams and wetlands, etc. crossings with waters of the state, discharge points and receiving water bodies within 0.5 mile of the project.

- Any unique problem or special restriction areas such as Water Quality Limited Waterways or areas of continued soil disturbance
- Roads and features for DEQ to locate and access the site
- Steep slopes clearly labeled with the words "Steep Slope" and include the percentage grade
- Any water of the state crossings clearly labeled with words "water crossing"
- Locations of springs, wetlands, surface waters, and all waters of Oregon within and one mile downstream of the site's discharge point (description with text is acceptable where location of water exceeds Site Map limits)
- Onsite drain catch basin depicting inlet protections, and a description of the type of catch basins used (e.g., field inlet, curb inlet, grated drain, and combination)
- Existing or proposed drywells or other Underground Injection Controls (UICs)
- Drinking water wells on site or adjacent to the site
- Receiving water(s). Stormwater and authorized non-stormwater discharge point locations, including:
  - Locations where stormwater and authorized non-stormwater will be discharged to storm drain inlets; and
  - Locations where stormwater and authorized non-stormwater will be discharged directly to surface waters of the state;
- Type and extent of pre-construction cover on the site clearly labeled (e.g., vegetative cover, forest, pasture, pavement, structures)
- Potential construction staging, storage, disposal and stockpile areas
- Locations where land disturbing activities will occur (note any phasing), including any demolition activities
- Locations where sediment, soil, or other construction materials will be stockpiled
- Temporary and permanent stormwater conveyance systems;
- Location of sanitary facilities
- Detention ponds, Storm drain piping, and inflow and outflow details (e.g., bottom elevations and inverts)
- Locations of all potential pollutant-generating activities

The following is the updated estimated sheet list for this work:

Number of sheets	Sheet Name
3	ESCP EXISTING CONDITIONS
3	ESCP DEMO, CLEARING, GRADING, EXCAVATING, AND LAND DEVELOPMENT
3	ESCP STREET, UTILITIES AND VERTICAL CONSTRUCTION
1	ESCP BMP DETAILS
3	ESCP FINAL LANDSCAPING AND SITE STABILIZATION