**SOW Template for**

**Pavement Design**

(version date: 11/9/18)

## INSTRUCTIONS

This template provides the basic information required in the Pavement Design portion of the SOW. To complete this portion of the SOW, add the necessary detail for each project. The information contained in ***Yellow-highlighted bold italics*** text provides some guidance as to where additional detail should be added to the SOW.

**Delete instructions throughout the document before executing Contract/WOC or amendment as follows:**

* From the “Edit” menu (or “Editing” menu on the “Home” ribbon) select “Replace”;
* With cursor in the “Find what” field, click “More” button, then “Format” then “Font” , then in the font field select “Arial” text ;
* Leave the “Replace with” field blank;
* Click “Replace All”. This will delete all yellow highlighted text.]

## Task X.0 Pavement Design

***(Insert Scope of Pavement Work)***

Consultant shall provide all equipment, labor, materials and traffic control required for the field investigation and the development of any new construction, reconstruction, rehabilitation, or temporary detour pavement designs as required under the scope of this SOW. All work related to completing the pavement design(s) must be conducted in accordance with the latest edition of the ODOT Pavement Design Guide, available online at: <https://www.oregon.gov/ODOT/Construction/Documents/pavement_design_guide.pdf>

References are given to specific ODOT Pavement Design Guide Chapters in the sub-tasks below for informational purposes only and does not relieve Consultant of responsibility for meeting all of the requirements contained in the ODOT Pavement Design Guide.

## Task X.1 Traffic Analysis

Agency will provide the traffic data and growth factor for future loadings.

Consultant shall conduct traffic analysis per chapters 4 and 5 of the ODOT Pavement Design Guide, which provides traffic data requirements and analysis procedures.

**Deliverable:**

* Include analysis in the deliverables required under Task X.5.

## Task X.2 Field Reconnaissance

Consultant shall conduct a field reconnaissance visit for planning the necessary field investigation work and to assess the temporary traffic control needs for the field investigation.

**Deliverable:**

* Work plan for field investigation work and traffic control needs

**Task X.3 Field Investigation**

Consultant shall conduct all site investigation work in accordance with the ODOT Pavement Design Guide, Chapter 4, Data Collection, which outlines the minimum level of site investigation work and the equipment calibration requirements. Consultant shall refer to Chapters 5-9 for the specific design requirements related to new construction, reconstruction or pavement rehabilitation, and bridge approaches.

***(Insert specific field investigation work - Consultant should provide this information based on their assessment of the project requirements and the Pavement Design Guide)***

**Deliverable:**

* Include documentation of field investigation in the deliverables required under Task X.5.

**Task X.4 Laboratory Testing**

Consultant shall ensure all necessary laboratory testing is conducted as needed to comply with the requirements of the ODOT Pavement Design Guide and to provide the basis for the necessary inputs required for the pavement design analysis.

***(Insert specific laboratory testing – Consultant should provide this information based on their assessment of the project requirements and the Pavement Design Guide)***

**Deliverable:**

* Include documentation of laboratory testing in the deliverables required under Task X.5.

**Task X.5 Engineering Analysis; Executive Summary and Supporting Documentation**

Consultant shall perform an engineering analysis of the data in accordance with the requirements of the ODOT Pavement Design Guide for the development of the pavement design(s) required under this SOW. Consultant shall prepare a Pavement Design executive summary and supporting documentation to document all phases of the pavement design process in conformance with requirements of ODOT Pavement Design Guide, Chapter 12 and referenced appendices and examples.

**Deliverable:**

* Draft pavement design executive summary and supporting documentation in conformance with ODOT Pavement Design Guide requirements. Submit in electronic format only. Due with DAP submittal.
* Final pavement design executive summary and supporting documentation in conformance with ODOT Pavement Design Guide requirements. Submit in electronic format only. Due with Advance Plans submittal.