INTRODUCTION

The project will retrofit approximately 600 linear feet of W Pioneer Way with Low Impact Development (LID) stormwater management techniques. See Vicinity Map (Figure 1). Currently, runoff from the project area discharges directly into Clarks Creek without flow control or water quality treatment. This project is the first phase of a multi-phase project to upgrade the street frontages of the WSU Puyallup Research and Extension Center campus (WSU Puyallup campus) to City of Puyallup standards utilizing LID techniques.

The project is located within the Clarks Creek drainage basin, a 6.5 square mile watershed located partially in the City of Puyallup and partially in unincorporated Pierce County. The larger watershed includes Rody, Diru, and Woodland Creeks, which flow into Clarks Creek downstream from the project site, and Meeker and Silver creeks, located upstream from the site.

PROPOSED CONSTRUCTION PROJECT

The proposed construction project will reconstruct approx. 600 L.F. of the existing roadway with porous asphalt pavement and asphalt treated permeable base, with pervious cement concrete used for new sidewalks. This approach would infiltrate all stormwater on site. The existing storm drainage system would be modified slightly to provide an overflow in case of failure of the pavement's infiltration capacity. See proposed plan (Figure 2a, 2b). Other improvements include concrete traffic curb, planter strips, driveway approaches, miscellaneous utility improvements, luminaires, minor signal modification, and preload for roadway and wall fill.

CONSTRUCTION QUALITY ASSURANCE PROJECT PLAN

The main purpose of this document is to convey the general procedures followed by engineering personnel during the construction process.

The construction management protocols followed are represented in the following guiding documents:


The typical project team and each person’s responsibilities are as follows:
**Project Engineer/Project Manager** – Acts as main point of contact for project. Represents the City of Puyallup. All major decisions will be made by and/or funneled through the project manager. Standard duties include: Responsible for design, scope, and schedule; Review and approval material permanently incorporated into the project; Develop formal correspondence to the contractor such as change orders, and contract interpretations; Develop/Review of Pay Estimates; Authorization of payment to contractor; Certification of Record Drawings.

**Contract Administrator** - Standard duties include: Supporting Project Manager and Site Inspector in contract documentation; Acting as an intermediary for the Project Manager to the contractor’s administrative personnel.

**Site Inspector** - Standard duties include: Acts as onsite representative for Project Manager; Works on behalf of the Project Manager in the acceptance of contract work; Documents construction related activities through Inspector’s Daily Reports, Material Acceptance Reports, and Weekly Work Quantity Reports; Measures work quantities for quality and payment purposes; Coordinates with quality control and material testing personnel (a combination of the WSDOT Fabrication Inspection Division and Private Consultants are utilized for verification of material compliance); Ensures Temporary Erosion and Sediment Control practices are followed; Ensures contractor is complying with all applicable permits; Conducts ESC inspections; Develops Record Drawing recommendations.

**Consultant Team (KPG)** - Standard duties include: Documentation and engineering support as needed, providing services for materials testing, special inspection, geotechnical engineer, construction engineering, development of the Record of Materials (ROM), support for review of Request for Approval of Materials (RAMs), shop drawings, & RFIs, technical assistance to negotiate change orders and assist in resolution of disputes which may occur during the course of the project.

**DOCUMENTS TO REMAIN ONSITE DURING CONSTRUCTION**

Cultural Resources Inadvertent Discovery Plan (IDP) will be maintained onsite at all times during construction.

Construction Stormwater General Permit Site Log Book and Stormwater Pollution Prevention Plan (SWPPP). Weekly inspections (or inspections after runoff) will be documented in the Site Log Book as well as modifications to the SWPPP.

All Other Related Permits.
### General Notes

1. For drainage inspection, and temporary construction requirements, see typical detail section 2 of project details sheets 2-3. Note that roadway section varies from typical. Where section is the width of a protection is at hazard for ground requirements.

2. See wall model, sheet 16-18 for fence, gate, and barrier design wall information.

3. See rod line and site plan for site plan. See schedule section 2 for wall, fence, and gate design wall information. Schedule section varies from typical. Where section is the width of a protection is at hazard for ground requirements.

4. All site plan not specifically shown for reference on this plans shall be notated for the schedule sheet.

5. Schedule calls for review of schedule. Adjusted for existing conditions previous drawings.

6. Catch basins in plan shall vary with size, shape, and grate. Check plan. Schedule shows schedule adjusted from typical. Where section is the width of a protection is at hazard for ground requirements.

7. For inspection and schedule information, see schedule plan.

8. Guard rail post and fence post locations may be adjusted following approval by the engineer based on conditions in he field.

9. Schedule shall be placed at interface between various schedule. Schedule locations are dependent variable. Schedule shows schedule adjusted from typical. Where section is the width of a protection is at hazard for ground requirements.

10. Schedule shows schedule adjusted from typical. Where section is the width of a protection is at hazard for ground requirements.

11. Schedule shall be placed at interface between schedule.

### Construction Notes

1. Construct ADA compliant hand rail, 5" minimum height.

2. Provide per schedule for typical section 56 sheet 5.


4. Construct residential dry socket approach for DFD plans 0.2.0.

5. Construct ADA compliant hand rail approach for details sheet 2.

6. Construct combination drain approach for details sheet 2.


10. Adjust utility to grade.

11. Construct block wall for details sheet 2. The wall shall be constructed as shown in plan view. The wall shall be constructed as shown in plan view. The wall shall be constructed as shown in plan view.

### Plan

**Legend**

- **Type:** Catch basin
- **Category:** Curb, gutter
- **Material:** Concrete, asphalt
- **New:** Yes
- **Existing:** No
- **Surface:** Concrete, asphalt

**Table 1**

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**FIGURE 2a**

**City of Puyallup**

**KPG**

**Ecology Submittal 8-17-18**

**WSU Lid Frontage Improvements Phase 1**

**City of Puyallup**

**Roadway & Storm Drain Plan**

**U.S. 410 to Stimson 105-20**

**KPG Project No. 1104**

*Date: 08/17/18*

**Sheet: 12 of 40**