



**TECHNICAL MEMORANDUM**

Date: June 29, 2022 (revised 8/24/2022)  
To: City of Sherwood  
From: Pat Tortora, PE – Emerio Design  
Subject: Preliminary Stormwater Management Plan at Tax Lot 600, Tax Map 2S1W 33CB

The purpose of this technical memorandum is written to outline the proposed stormwater management plan for tax lot 600 along SW Murdock Road, a 3 lot partition.

**Project Overview:**

The proposed development site is located on lot 600 of tax map 2S1W 33CB in Sherwood, Oregon. The development is a 3-lot partition with single family homes on each lot, a shared driveway between proposed lots 1 and 2, and an accessory building on lot 1. The existing site is approximately 3.01 acres in size.

Currently, the site is a vacant parcel with no developed impervious areas. Drainage from the existing site presently flows westward to the existing stormwater conveyance system along SW Murdock Road.

This is a single family residential development, using 2,640 sf of impervious area for each lot.

**Proposed Runoff Management:**

A single stormwater Flow-Through Planter, that will be owned by the city is being proposed at the northwest corner of the project along SW Murdock Road.

The Flow-Through Planter will be used to meet hydromodification/detention and water quality standards for new impervious surfaces. This planter will be sized at 12% of the tributary onsite impervious areas per Clean Water Services Standards R&O 19-22 section 4.08.4.c.

| Lot   | Impervious Area (sf) | Planter Size (sf) |
|-------|----------------------|-------------------|
| 1     | 2,640                | -                 |
| 2     | 2,640                | -                 |
| 3     | 2,640                | -                 |
| Total | 7,920                | 950               |

As shown in the table above, the proposed onsite planter has sufficient capacity to manage runoff from the proposed shared driveway.

**Engineering Conclusions:**

The proposed design satisfies the stormwater management standards outlined by City of Sherwood and Clean Water Services R&O 19-22.

**List of Attachments**

- A. Preliminary Grading and Erosion Control Plan
- B. Preliminary Utility Plan