

07/16/2021

Sophie Kiepe  
Planner  
El Paso County Planning and Community Development  
2880 International Circle, Suite 110  
Colorado Springs, CO 80910

**RE: Super Star Car Wash – Falcon Marketplace – Lot 10, Drainage Conformance Letter**

Dear: Ryan,

The purpose of this letter is to provide justification that the proposed development of Super Star Car Wash on Lot 10 of Falcon Marketplace conforms to the requirements of the "Final Drainage Report for Falcon Marketplace" prepared by Drexel, Barrell & Co. dated November 4, 2019, PCD filling number SF-19-001.

**Drainage Conformance Letter**

Based on the drainage report for the overall development of Falcon Marketplace prepared by Drexel, Barrell & Co. Lot 10 is part of drainage Basin B18 which contains the 2.18 acres of combined Lots 9 and 10 with an assumed imperviousness of 81%. Basin 18 as well as other basins that make up the majority of the overall development drain into Pond #2 which is a 3.5 ac-ft basin that will detain and release the WQCV generated by the site. Basin 18 has design release flows of 7.8 cfs for a 5-year storm and 15.0 cfs for a 100-year storm. Lot 10 makes up 48.6% (1.06 acres) of the total 2.18 acres, based on that the allowable release rates from lot 10 are 3.8 cfs for a 5-year storm and 7.3 cfs for a 100-year storm.

The actual design for lot 10 has an imperviousness of 73% with 0.19 acres flowing off site. Basin UD1.1 enters a storm inlet on the development road and then flows through the development sewers and into Pond #2. Basin UD1.2 enters a storm inlet on the development road and then flows through the development sewers into Pond #3. Basin UD1.3 sheet flows offsite directly into Pond #2. All areas that flow offsite result in 0.1 cfs 5-year release rate and a 0.5 cfs 100-year release rate, all basins eventually entering one of the overall development water quality ponds. Removing the off-site flow rates from the allowable release rate of the site results in a 5-year allowable release rate of 3.7 CFS and a 100-year release rate of 6.8 cfs. The rest of the on-site flow has a 5-year storm release rate of 3.3 cfs and a 100-year storm release rate of 5.9 cfs, both adhere to the requirements of the overall development drainage report. Because this site conforms to the requirements set forth by the drainage report prepared by Drexel, Barrell & Co. it has been determined that no additional onsite detention or water quality will be required.

Sincerely,

Thomas Pannell, P.E.  
Sr. Project Manager  
**Bowman Consulting Group, Ltd.**

Engineer must confirm in the drainage letter that the existing pond is functioning as intended.

provide signature  
and stamp