

APPENDIX 6
FLOOD NARRATIVE
DAVID EVANS AND ASSOCIATES, INC
October 27, 2009

MEMORANDUM

DATE: October 27, 2009
TO: File
FROM: Larry Onorati, P. E.
SUBJECT: Pierce County Flood Plain
PROJECT: Cross Park
PROJECT NO: PRCC-0000-0043
ATTACHMENTS:

The Cross Park development, located at 4418 Military Road East, situated within portions of the NE and NW quarters of Section 25, Township 19 North, Range 3 East Parcel no. 031925-2-018. The project site is located within the 100-year flood plain and flood way associated with Clover Creek. Clover Creek and its associated mapped wetlands, traverses through the site in a westerly direction. A review of the Pierce County flood plain mapping within this area of the County has provided a mapped zone A base flood mapping for this portion of Clover Creek. Pierce County Water Programs has provided a Floodplain Review map for Parcel 031925-2-018. The flood plain mapping indicates that the planned initial park improvements are outside of the mapped flood plain. The 100-year flood water elevation is listed as 329.1, NAVD88. Additionally, a site topographic survey has been completed with verifying that the planned improvements are outside of the 100-year flood plain (based upon the 329.1-foot elevation). The projects wetland boundaries appear to be near the 100-year flood plain elevation. The Pierce County)HEC-RAS (Hydrologic Engineering Centers River Analysis System) model which generated the floodplain maps are based upon the following discharge values for Clover Creek at Military Road:

- 10 year - 28 cfs
- 50 year - 38 cfs
- 100 year - 43 cfs
- 500 year - 54 cfs

The 100 year (1% Annual Chance Flood) and 500 year (0.2% Annual Chance Flood) are shown on the Pierce County generated FIRM Flood plain map. The HEC-RAS model is calibrated to the 100 year flood. Based upon this analysis, the site topographic survey and the planned improvements, the entire site to be initially developed is located outside of the 100-year floodplain. No additional studies or mitigation is required.



