

#### Add "PCD File No. PPR-17-037 and VR-17-009"

August 15, 2017

El Paso County Planning and Community Development Department 2880 International Circle, Suite 110 Colorado Springs, CO 80910 Add a section discussing conformity with the Fisher's Canyon DBPS.
Is there concerns regarding bank stabilization since the

Re: Drainage Letter for Bunting MultiFamily Filing No. property is at the outside bend?

Project No. 61072

Planning and Community Development Department:

The purpose of this Drainage Letter is to address the County's Drainage Report requirements for the proposed replat of Lot 5, a portion of Lot 4 and a portion on Lot 6, Stratmoor South Subdivision in El Paso County, Colorado. The replat is to be known as "Bunting MultiFamily Filing No. 1". The site is located within the Southeast Quarter of Section 5, Township 15 South, Range 66 West of the 6<sup>th</sup> P.M. The site is located west of Interstate 25, approximately one-half mile north of South Academy Boulevard and includes the existing street addresses of 1724 and 1728 Hampton South. The parcels being replatted have existing El Paso County Assessor Parcel Numbers 65054-08-034 and 65054-08-035. A Vicinity Map is attached with this letter.

The site is 0.51+/- acres in area and is vacant residential property, zoned RM-30 (Residential Multi-Dwelling). The public street, Hampton South (60' R.O.W.), is adjacent on the south side of the site. The street contains an existing 15 ft long grated inlet near the southwest corner of the site. The developed multi-family residential property of 1720 Hampton South is adjacent on the west side. An uplatted tract of land, zoned RS-5000 (Residential Suburban), is adjacent to the north. This unplatted tract contains the Clover Ditch drainage way. The developed multi-family residential property of 1732 Hampton South is adjacent on the east side. The site is vacant and vegetated with natural grasses and small brush. The site generally drains from the sides towards the center and then to the north. The Flows exiting the north edge of the site enter the Clover Ditch, located in the off-site property to the north. A strip along the southern potion of the site also drains south to the curb line on Hampton South roadway. These flows gather and are collected at the existing 15 ft long grated inlet located in the curb near the southwest corner of the site. Existing grades on the site range from about 2% to about 8%.

Attached the

The neighborhood was platted in 1967 as "Stratmoor South Subdivision." Stratmoor South Subdivision was prepared by Karcich & Weber Inc., titled "Hydrological Engineering Study for Stratmoor South Subdivision, El Paso County and is dated June 1967. The site was platted with a Drainage Easement between lots 5 and 6, which was meant to contain a an open ditch draining to the north. The ditch was never constructed and notations on the County's record copy of the recorded subdivision plat indicate that the easement was vacated.

According to the National Resource Conservation Service, the soil in the area of the Bunting MultiFamily site is made up of Razor-Midway complex (map unit 75). Razor-Midway complex is moderately deep Include the document noted on the plat you received from the clerk. The plat copy PCD has or the title work does not reflect the handwritten notes.

Engineers • Surveyors

Drainage Letter for Bunting MultiFamily Filing No. 1

August 15, 2017

Page 2

Revise to El Paso County

and well drained. Permeability is slow, surface runoff is medium, and the hazard of erosion is moderate. Razor-Midway complex is classified as being part of Hydrologic Soil Group D. The soil is well suited for home sites and other urban uses.

The current Flood Insurance Study of the region includes a Flood Insurance Rate Map (FIRM), effective on March 17, 1997. The site is included in Community Panel Number 08041C0743F of the Flood Insurance Rate Maps for Elbert County, Colorado and Incorporated Areas. No portion of the site lies within FEMA designated Special Flood Hazard Areas (SFHA's). An excerpt of the current FEMA Flood Insurance Rate Maps with the site delineated is attached.

- 1. Revise the reference to Table 3-1 in Appendix L of the Engineering Criteria Manual.
- 2. Add the calculation for the 67% imperviousness.
- 3. Per ECM Appendix L Part 1 Section 3.13a, a basin drainage fee will be assessed based upon the new impervious acreage if no such fee has been previously paid. This means the fee is based on the 67% imperviousness \* acre\*basin rate.

the lot near the Hampton South roadway. Landscaping will be provided along the roadway frontage. The residential buildings and the northern portion of the lots will drain offsite to the north. The parking area and front landscape area will drain south to the roadway. Storm flows will continue to be collected in the existing 15 ft ling graded inlet near the southwest corner of the site.

The resulting actual percent imperviousness of the site will be 67%, which is approximately the same as the multi-family classification of 65% referenced in El Paso County resolution 99-383 concerning Drainage Fee Rates. Because Because there is no significant change in percent imperviousness planned for the site when it was originally platted in 1967 and the current proposed development, no Drainage Fees are due. Identify the drainage basin (Fisher's Canyon).

The site, being 0.51 acres in area, is less than 1.0 acres in area. Therefore, in accordance with

conditions. The proposed dev downstream drainage ways

Engineering Criteria Manual

1. Being less than an acre is insufficient justification. Provide a statement answering the following question. Is Storm runoff flows from the c the site tributary to sensitive waters (see Table I-5) or classified as a potential high risk? If the answer to both is "No", then no additional BMPs are required.

Respectfully submitted,

M.V.E., Inc.

2. Either include flood control detention or justify why 100yr flood control detention is not required.

Discuss and analyze the emergency overflow path. It appears that the emergency overflow path for Stratmoor South Subdivision goes through the proposed lots. A drainage easement should be provided for the emergency overflow.

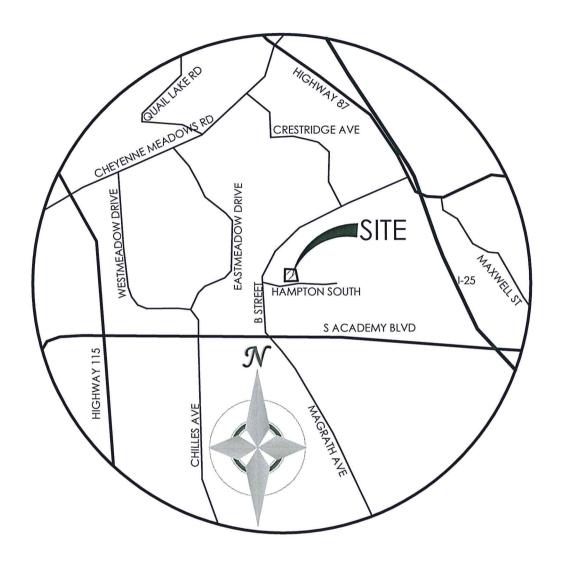
Add a section regarding the County's 4-step process identified in Appendix I Section 1.7.2.

## Statements and Acknowledgments

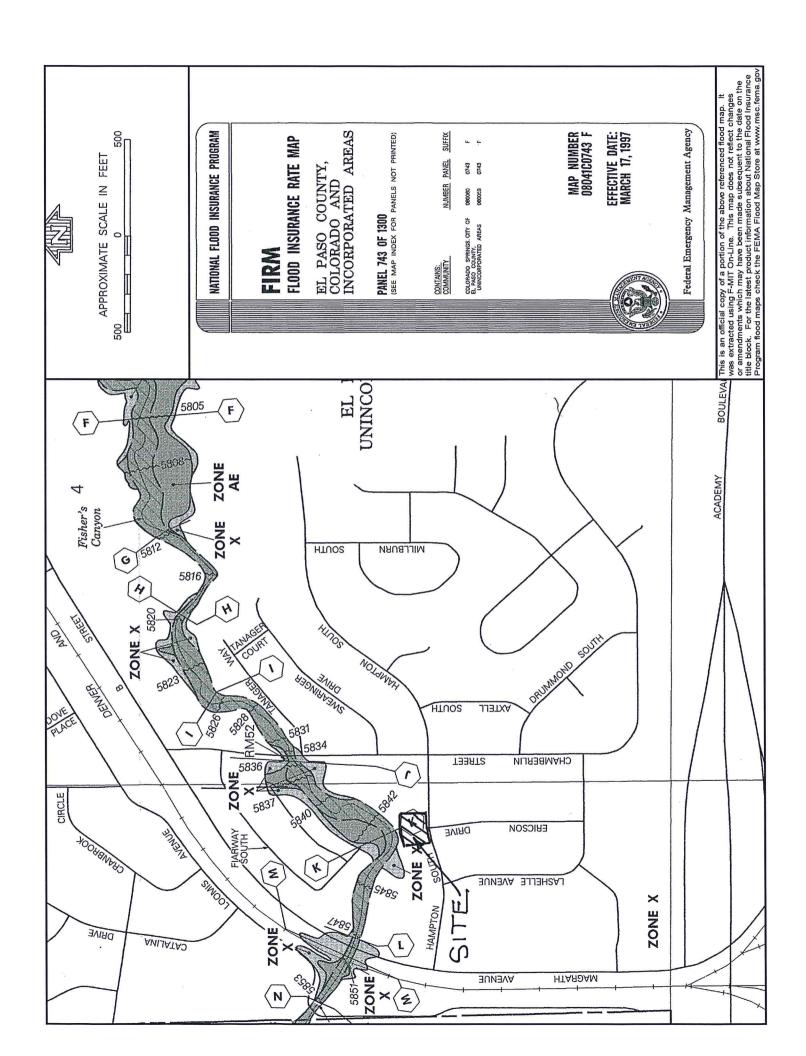
### **Engineer's Statement**

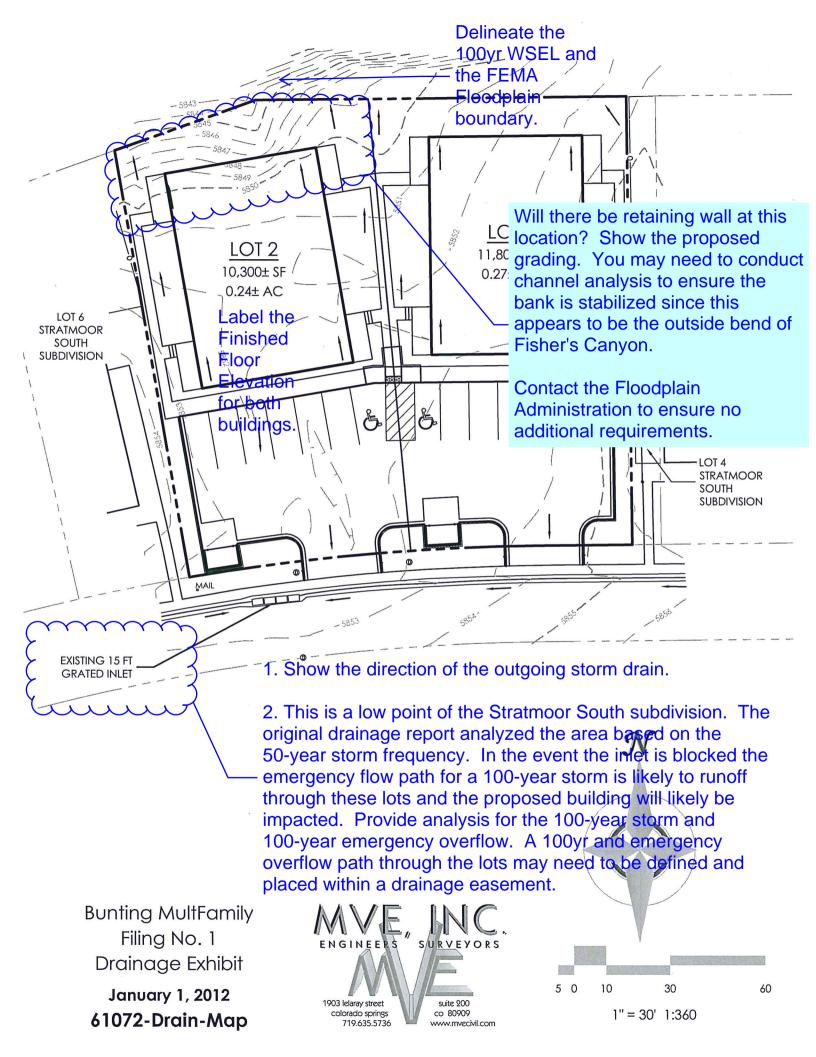
The attached drainage plan and report were prepared under my direction and supervision and are correct to the best of my knowledge and belief. Said drainage report has been prepared according to the criteria established by El Paso County for drainage reports and said report is in conformity with

the applicable aster plan of the drainage ba negligent acts, errors or omissions on my p		r any liability caused by any
	olorado No. 31672	8/15/17 Date
For and on Behalf of MVE, Inc.		
Developer's Statement		
I, the developer have read and will comp report and plan.	ly with all of the requirement	s specified in this drainage
George E. Bunting GNC Bunting LLC		Date
El Paso County		
Filed in accordance with the requirements Engineering Manual, and the Land Develop		nual 1 & 2, El Paso County
Jennifer E. Irvine , County Engineer / ECM	Administrator Date	



# VICINITY MAP NOT TO SCALE





## Markup Summary

dsdlaforce (14)		
AM TYCE File No. 1978-17 GET and VIR-17 GET and VIR	Subject: Text Box Page Label: 1 Lock: Locked Author: dsdlaforce	Add "PCD File No. PPR-17-037 and VR-17-009"
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The state of the s	Subject: Cloud+ Page Label: 1 Lock: Locked Author: dsdlaforce	Include the document noted on the plat you received from the clerk. The plat copy PCD has or the title work does not reflect the handwritten notes.
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Subject: Text Box Page Label: 6 Lock: Locked Author: dsdlaforce

Label the Finished Floor Elevation for both buildings.



Subject: Cloud+ Page Label: 6 Lock: Locked Author: dsdlaforce

Will there be retaining wall at this location? Show the proposed grading. You may need to conduct channel analysis to ensure the bank is stabilized since this appears to be the outside bend of Fisher's Canyon.

Contact the Floodplain Administration to ensure no additional requirements.



Subject: Cloud+ Page Label: 6 Lock: Locked Author: dsdlaforce

- 1. Show the direction of the outgoing storm drain.
- 2. This is a low point of the Stratmoor South subdivision. The original drainage report analyzed the area based on the 50-year storm frequency. In the event the inlet is blocked the emergency flow path for a 100-year storm is likely to runoff through these lots and the proposed building will likely be impacted. Provide analysis for the 100-year storm and 100-year emergency overflow. A 100yr and emergency overflow path through the lots may need to be defined and placed within a drainage easement.



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Delineate the 100yr WSEL and the FEMA Floodplain boundary.