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DEVIATION REQUEST AND DECISION FORM

Updated: 6/26/2019

PROJECT INFORMATION

Project Name : Haven Valley Subdivision
Schedule No.(s) : 6512200001
Legal Description : THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO.

APPLICANT INFORMATION

Company : Drexel, Barrell & Co.
Name : Tim McConnell
 Owner Consultant Contractor
Mailing Address : 101 Sahwatch St.#100
Colorado Springs, CO 80903
Phone Number : (719) 260-0887
FAX Number :
Email Address : tmccconnell@drexelbarrell.com

ENGINEER INFORMATION

Company : Drexel, Barrell & Co.
Name : Tim McConnell Colorado P.E. Number : 33797
Mailing Address : 101 Sahwatch St. #100
Colorado Springs CO 80903
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OWNER, APPLICANT, AND ENGINEER DECLARATION

To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review until corrections are made, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval.

[Handwritten Signature]
Signature of owner (or authorized representative)

7/26/24
Date

Engineer's Seal, Signature
And Date of Signature



DEVIATION REQUEST (Attach diagrams, figures, and other documentation to clarify request)

A deviation from the standards of or in Section **4.3.6 A3** of the Engineering Criteria Manual (ECM) is requested.

Identify the specific ECM standard which a deviation is requested:

Section 4.3.6.A.3: Storm Sewer Lines: At no time shall storm sewer lines be placed less than 2 feet in depth measured perpendicularly to the finished road surface. When placed outside the road, at no time shall the storm sewer lines be placed less than 1 foot in depth from the ground surface.

State the reason for the requested deviation:

The Haven Valley pond outfall and Widefield Drive storm sewer improvements are proposed to discharge via bubbler inlets in the curb line of Widefield Drive. The existing grade of Widefield Drive is minimal, so in order to achieve this bubbler system and to avoid chasing grade for a significant distance with the 4" drain lines, a shallow incoming storm sewer is necessary. We are also avoiding conflicts with existing utilities to include gravity sanitary sewer services that cannot be relocated vertically.

Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards used as basis):

Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards used as basis):

The alternative to this bubbler system would be an elaborate extension of storm sewer infrastructure through the established neighborhoods to an acceptable outfall point. To deepen the storm sewer to meet the 2' cover criteria would mean further disruption to the residents of the existing subdivision.

The proposed elliptical storm sewer is designed at 1.5' below surface grade. This is below the subgrade of the pavement section, and is within industry and other local standards for RCP pipe. Reference City of Colorado Springs Drainage Criteria Manual Chapter 9, Section 4.1.

LIMITS OF CONSIDERATION

(At least one of the conditions listed below must be met for this deviation request to be considered.)

- The ECM standard is inapplicable to the particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

Provide justification:

The existing grade of Widefield Drive is minimal, so in order to achieve the proposed bubbler system and to avoid chasing grade for a significant distance with the 4" drain lines, a shallow incoming storm sewer is necessary. The system has been designed as elliptical RCP to maximize the amount of cover available. The top of pipe will also be below the subgrade of the pavement section.

CRITERIA FOR APPROVAL

Per ECM section 5.8.7 the request for a deviation may be considered if the request is **not based exclusively on financial considerations**. The deviation must not be detrimental to public safety or surrounding property. The applicant must include supporting information demonstrating compliance with **all of the following criteria**:

The deviation will achieve the intended result with a comparable or superior design and quality of improvement.

The storm sewer improvements are necessary to safely allow for the proposed Haven Valley detention facility to discharge out to Widefield Drive. In the current condition this area receives upstream runoff and is frequently flooded. This design will be a significant improvement for the existing neighborhood along Widefield Drive.

The deviation will not adversely affect safety or operations.

Safety or operations will not be adversely affected by the approval of this deviation. As previously stated this storm sewer system and upstream sub-regional detention facility will greatly improve the situation in the existing neighborhood. Allowance for 1.5' of cover over the proposed elliptical pipe will not adversely affect safety or maintenance of the pipe.

The deviation will not adversely affect maintenance and its associated cost.

Maintenance will not be adversely affected by the approval of this deviation. As previously stated, this storm sewer system and upstream sub-regional detention facility will greatly improve the situation in the existing neighborhood. Allowance for 1.5' of cover over the proposed elliptical pipe will not adversely affect safety or maintenance of the pipe.

The deviation will not adversely affect aesthetic appearance.

Flood mitigation as a result of this improvement will greatly improve the aesthetic appearance of the existing neighborhood. Installation of with 6" less cover than that required by criteria will not have any impact on aesthetic appearance.

The deviation meets the design intent and purpose of the ECM standards.

This deviation meets the design intent and purpose of the ECM by providing for a drainage solution in a flood prone area, while minimizing the construction impact to the existing established neighborhood.

The deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, as applicable.

MS4 control measure requirements are not applicable to this deviation request.

