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**DEVIATION REQUEST
 AND DECISION FORM**

Updated: 6/26/2019

PROJECT INFORMATION

Project Name : Forest Lakes Filing No. 7
 Schedule No.(s) : 71000-00-454
 Legal Description : Forest Lakes Filing No. 7

APPLICANT INFORMATION

Company : FLRD #2, LLC
 Name : Jim Boulton (Vice President)
 Owner Consultant Contractor
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ENGINEER INFORMATION

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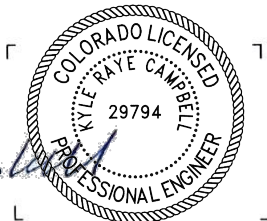
OWNER, APPLICANT, AND ENGINEER DECLARATION

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.

Jim Boulton _____ Date 4.21.22
 Signature of owner (or authorized representative)

Engineer's Seal, Signature
 And Date of Signature

Kyle M Campbell
 Signature



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

A deviation from the standards of or in Section **DCM, Volume 1 Chapter 9 Section 6.4** of the Engineering Criteria Manual (ECM) is requested.

Identify the specific ECM standard which a deviation is requested:

“The drop within a manhole from the upstream to downstream pipe invert should normally not exceed 1 foot. There are cases when a drop larger than 1 foot may be necessary to avoid a utility conflict, reduce the slope of the downstream pipe, match the crowns of the upstream and downstream pipes or to account for the energy losses in the manhole. Drops that exceed 1 foot will be evaluated on a case-by case basis and additional analysis may be required. “

State the reason for the requested deviation:

Due to the existing steep topographic conditions of this site (84' of fall within the right-of-way), several proposed storm sewer drop manholes are proposed to both acknowledge matching pipe crown of smaller diameter pipes into much larger diameter pipes and to flatten pipe slopes to keep velocities reduced.

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

Maintaining pipe velocities as practical as possible and matching pipe crowns for diverse pipe sizes necessitates drops in manholes in excess of 1 foot. No alternative solutions are readily identifiable.

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:

As mentioned above, the existing site topography and resultant street profiles result in the need to introduce manhole drops in excess of 1 foot. Due to the extreme topography of the site and the limitation of the allowable pipe velocities, the use of larger drop manholes had to be implemented throughout the incoming pipe system of Pond A and the bypass system along the back of the lots and open space interface.

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 design of drop manholes allows for pipe velocities to be kept in check (see separate deviations request for velocities) and minimized overall system bury depth.

Based upon these findings no impacts to design or quality of the improvement will be realized.

The deviation will not adversely affect safety or operations.

There are no safety or operation concerns with this request. Bury depth of the storm systems have been minimized, and flows at respective discharge points are adequately designed to mitigate the flow velocities.

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

No adverse impacts to maintenance or its associated costs will be realized. As stated above, bury depth have been minimized to facilitate ease of access, and matching pipe crowns results in many of the drops in excess of 1 foot.

The deviation will not adversely affect aesthetic appearance.

No adverse impacts to aesthetics will be realized, as these proposed systems are all underground.

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

Design intent and purpose of the ECM standards is not compromised, as the proposed drop manholes still allows for a safe and orderly transfer of storm drainage flows to their respective outfalls.

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.

As required and reflected in the prior approved Drainage Report for this overall site, and specifically for the Filing No. 7 site in the Final Drainage Report, Stormwater Quality is being provided via the proposed public storm facilities under consideration with this deviation request transferring the flows to treatment facilities.

REVIEW AND RECOMMENDATION:

Approved by the ECM Administrator

This request has been determined to have met the criteria for approval. A deviation from Section 9.6.4, DCM1 of the ECM is hereby granted based on the justification provided.

┌ **APPROVED** ─┐
└ Engineering Department ─┘
05/04/2022 7:11:49 AM
dsdnijkamp
┌ EPC Planning & Community ─┐
└ Development Department ─┘

Denied by the ECM Administrator

This request has been determined not to have met criteria for approval. A deviation from Section _____ of the ECM is hereby denied.

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ECM ADMINISTRATOR COMMENTS/CONDITIONS:

1.1. PURPOSE

The purpose of this resource is to provide a form for documenting the findings and decision by the ECM Administrator concerning a deviation request. The form is used to document the review and decision concerning a requested deviation. The request and decision concerning each deviation from a specific section of the ECM shall be recorded on a separate form.

1.2. BACKGROUND

A deviation is a critical aspect of the review process and needs to be documented to ensure that the deviations granted are applied to a specific development application in conformance with the criteria for approval and that the action is documented as such requests can point to potential needed revisions to the ECM.

1.3. APPLICABLE STATUTES AND REGULATIONS

Section 5.8 of the ECM establishes a mechanism whereby an engineering design standard can be modified when if strictly adhered to, would cause unnecessary hardship or unsafe design because of topographical or other conditions particular to the site, and that a departure may be made without destroying the intent of such provision.

1.4. APPLICABILITY

All provisions of the ECM are subject to deviation by the ECM Administrator provided that one of the following conditions is met:

- The ECM standard is inapplicable to a particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship on the applicant, 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.

1.5. TECHNICAL GUIDANCE

The review shall ensure all criteria for approval are adequately considered and that justification for the deviation is properly documented.

1.6. LIMITS OF APPROVAL

Whether a request for deviation is approved as proposed or with conditions, the approval is for project-specific use and shall not constitute a precedent or general deviation from these Standards.

1.7. REVIEW FEES

A Deviation Review Fee shall be paid in full at the time of submission of a request for deviation. The fee for Deviation Review shall be as determined by resolution of the BoCC.