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DEVIATION REQUEST AND DECISION FORM

Updated: 6/17/2019

PROJECT INFORMATION

Identify the specific ECM standard which a deviation is requested:

2.2.5.B and 2.2.5.D (Roadway Access Criteria – Rural Minor Arterial and Collector Access Standards),
2.3.2 (Design Standards by Function Classification)

State the reason for the requested deviation:

Standard 2.2.5.B and 2.2.5.D (Roadway Access Criteria – Rural Minor Arterial and Collector Access Standards, respectively) requires intersection spacing of 1/4-mile (1,320 feet) back from the right-of-way (ROW) line of an arterial street. This standard is also reflected in the section Intersection Spacing on a Rural Non-Residential Collector and reflected in Tables 2-4 and 2-5 (Roadway Design Standards for Rural Expressways and Arterials and Rural Collectors and Locals, respectively).

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

The standard requires intersection spacing of 1/4-mile (1,320 feet) back from the ROW line of an arterial street.

- † The centerline of Grandwood Court/Higby Road would be 980 feet west of the Higby Road/Colonial Park Drive intersection
- † The centerline of the Furrow Road/Higby Road intersection would be 1,175 feet east of the intersection of Higby Road/Fairplay Drive
- † The centerline of the Furrow Road/Copper Valley Court intersection would be 707 feet north of the intersection of Furrow Road/Higby Road
- † The centerline of the Furrow Road/Copper Valley Court intersection would be 879 feet south of the intersection of Furrow Road/Minglewood Trail/Lamplight Drive

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:

Grandwood Court

This location is appropriate as, although short of the ECM 1,320-foot spacing criteria from Colonial Park Drive, this proposed eastern access location (Grandwood Court) would maximize the distance possible from Colonial Park Drive and the vertical/horizontal curve constraints to the west (with associated short sight distances). Also, this access would align with the planned connection from Home Place Ranch.

E/W Copper Valley Ct.

Due to the existing linear distance between Higby and Minglewood Trail, it is not possible to place an intersection both 1/4 mile from Higby Road and 1/4 mile from Minglewood Trail. The intersection has been placed approximately halfway between the two. This selected location allows for a sufficient separation distance from Higby Road while creating the best possible scenario with respect to centerline roadway grades and intersection approach grades, given the change in elevation between the current south end of Furrow Road and Higby Road. The roadway grade shown is less than 10 percent and the intersection approach grades are not shown to exceed four percent. No auxiliary turn lanes are required at this intersection and the sight distance can be met.

Furrow Road

A future Furrow Road intersection location at the standard 1/4 mile spacing from Fairplay Drive is NOT recommended due to topography and roadway grades. The field-measured existing grade on Higby Road at the proposed Furrow Road extension is about 4.5 percent at the access centerline. West of Furrow Road, the grade is moderate to about 3.5 percent on the eastbound intersection approach (grade moderates as the distance west from the intersection increases). East of Furrow Road (on the westbound approach to the intersection), the grade is about 5.5 to 4.5 percent. These grades and the overall existing and potential future roadway profile for Higby Road were considered as part of the evaluation of this location for the future Collector/Minor Arterial intersection of Furrow/Gleneagle/Higby shown on the County MTCP.

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.

Grandwood Court

Although short of the ECM 1,320-foot spacing criteria, the proposed eastern access location (Grandwood Court) would maximize the distance possible from Colonial Park Drive and the vertical/horizontal curve constraints to the west.

E/W Copper Valley Ct.

Due to the existing linear distance between Higby and Minglewood Trail, it is not possible to place an intersection both 1/4 mile from Higby Road and 1/4 mile from Minglewood Trail. The intersection has been placed approximately halfway between the two.

Furrow Road

Although short of the ECM 1,320-foot spacing criteria, the proposed Furrow/Higby intersection location would maximize the distance possible from Fairplay Drive while also taking into consideration vertical and horizontal curve sight distance constraints to the east.

The deviation will not adversely affect safety or operations.

Grandwood Court

With a 35-mph posted speed limit on Higby Road (design speed of 40 mph), the field-measured sight distances for both approaches from the proposed east site access location (Grandwood Court) exceeds the required 445-foot requirement for passenger vehicles per ECM Table 2-21. The field-measured sight distance looking to the west from Grandwood Court is 645 feet, while the field-measured sight distance looking to the east from Grandwood Court is 1,990 feet. Both measurements meet ECM standards for sight distance.

E/W Copper Valley Ct.

This selected location allows for a sufficient separation distance from Higby Road while creating the best possible scenario with respect to centerline roadway grades and intersection approach grades, given the change in elevation between the current south end of Furrow Road and Higby Road. The roadway grade shown is less than 10 percent and the intersection approach grades are not shown to exceed four percent. No auxiliary turn lanes are required at this intersection and the sight distance can be met.

Furrow Road

Based on the spot-grades along Higby Road east of the proposed west site access point (Furrow Road), the prescribed stopping sight distance is 333 feet (downgrade of approximately six percent). With a 35-mph posted speed limit on Higby Road (design speed of 40 mph), the field-measured sight distances for both approaches from the proposed Furrow Road extension exceeds the required 445-foot requirement for passenger vehicles per ECM Table 2-21. The field-measured sight distances from the proposed Furrow Road/Higby Road intersection are 1,302 feet and 650 feet while looking to the west and to the east, respectively. Both measurements meet ECM standards for sight distance.

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

The spacing will not affect the maintenance cost as the spacing will not negatively affect the ability for snowplow and maintenance vehicles to enter and exit these side streets.

The deviation will not adversely affect aesthetic appearance.

The spacing will not affect the aesthetics. The spacing is not short to the extent that affects the general appearance of the road corridor. The spacing will be consistent with other intersections in the area.

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

Grandwood Court

The proposed eastern access location (Grandwood Court), although short of the ECM 1,320-foot spacing criteria, would maximize the distance possible from Colonial Park Drive and the vertical/horizontal curve constraints to the west.

E/W Copper Valley Ct.

This selected location allows for a sufficient separation distance from Higby Road while creating the best possible scenario with respect to centerline roadway grades and intersection approach grades, given the change in elevation between the current south end of Furrow Road and Higby Road. The roadway grade shown is less than 10 percent and the intersection approach grades are not shown to exceed four percent. No auxiliary turn lanes are required at this intersection and the sight distance can be met.

Furrow Road

The proposed Furrow Road/Higby intersection, although short of the ECM 1,320-foot spacing criteria, would maximize the distance possible from Fairplay Drive and the vertical/horizontal curve sight distance constraints to the east.

REVIEW AND RECOMMENDATION:

Approved by the ECM Administrator

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

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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.