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*~ 2012 ACEC/NM Award Winner for Engineering Excellence ~
~ 2008 ACEC/NM Award Winner for Engineering Excellence ~*

October 14, 2015

Mr. Curtis Cherne, P.E.
Flood Plain Administrator
City of Albuquerque
PO BOX 1293
Albuquerque, NM 87103

Re: Juan Tabo Hills Request for CLOMR Response to Comments (Project # 1005278)

Dear Mr. Cherne,

Below, please see our response to your comments dated April 8, 2015 for our request for CLOMR for Juan Tabo Hills Estates.

If you have further questions, please feel free to contact me directly.

Sincerely,
MARK GOODWIN & ASSOCIATES, P.A.

James D. Hughes, PE

JDH/kb

1. The grading plan for the subdivision and the Bank Protection Design Analysis report should be included with this CLOMR request. **The Grading Plan and Bank Protection Plan and Profile have been added to the Appendices.**
2. A brief review of the grading plan revealed that it was difficult to determine the amount of fill because existing contours were not labeled and spot elevations were not provided. **The revised Grading Plan Contours are now labeled.**
3. The grading plan should show the flood zone(s) and floodway where appropriate. **Flood Zones are now on Grading Plan.**
4. Provide the Annexation agreement. This area is still shown in the County. **Annexation documentation has been added to appendix.**
5. Bernalillo County Assessor's data shows channel improvements on property owned by East Mesa Holdings LLC and the City of Albuquerque. Concurrence from East Mesa Holdings LLC and the City department should be submitted. **The Bank Protection and Fill in the floodplains is taking place on Tracts A and B-1 of Juan Tabo Hills West and by Juan Tabo Hills West, LLC. Tract 1-A-1 of Juan Tabo Hills Unit 2 owned by the City of Albuquerque Open Space Division, and an "AMAFCA Parcel" owned by AMAFCA north of Tract A.**
6. Provide the Endangered Species Act compliance documentation. **Threatened and Endangered Species documentation from Fish and Wildlife is also new in the appendix.**
7. Provide a Topographic Work Map. **Topo Work map is the Bank Protection Plan and Profile.**
8. The Annotated FIRM should show the new limits of the AE Zone and Shaded Zone X individually. Is the new limit of the AE zone the new limit of the floodway? **The limits of all three flood zones is proposed at the top of the Bank Protection except at the upstream end where the top of bank matches existing grade. North of Rocky Top Drive. The Bank Protection is located in the Floodway by the top of the Bank is at the same elevation as existing ground so that it does not form an obstruction.**
9. Sections of the CLOMR are missing. There are tabs but no documents in the sections: HEC-RAS revised, Cross Sections and 100 Yr Elev Comparison. **The HEC-RAS and 100 Year Elevation Comparison have been added to the Appendices.**
10. Provide a plan showing river station stationing. **The stationing is shown on the Bank Protection Plan and Profile. That stationing match the HEC-RAS model.**
11. Provide HEC-RAS cross sections for the proposed improvements. **HEC-RAS Cross Sections are included in the HEC-RAS sections of the Appendix both Effective and Revised. Additional annotation is shown on the "Cross Sections" tab of the Appendix.**
12. How will placing fill in the Zone AO-2 effect the floodway depth and what is the approximate flow rate in the AO 2 zone? **The AO 2' Zone will be eliminated. The source of flooding is the Tijeras and the Bank Protection and Fill associated with this project will eliminate that Zone too.**

13. Show/discuss how this request will not create a flood zone behind the scour wall due to upland flows. It should be clear from the Grading Plan that all of the elevation behind the Bank Protection are higher than the Bank Protections. A copy of the On-site drainage report could be included with the CLOMR request provided to FEMA separately should they raise the issue, but most of the upland design calculations are shown in the Grading and Drainage Plans already included in the CLOMR request.

14. What is the purpose of the information in Sections 3 through 6? If they are cross section of arroyo improvements, they should be drawn to scale and show existing and proposed grades. The "cross sections" tab includes scale cross sections at each HEC-RAS section location showing both existing and proposed finished grades as well as temporary grades that will exist during construction and the subsurface extents of the Bank Protection as necessary to provide Scour Protection according to the equations and calculating shown on the Bank Protection Profile. That is more information than FEMA cares about but it is design considerations that AMAFCA is interested in.

15. Who will be maintaining the proposed channel improvements? Provide written confirmation from the maintaining agency. Please read AMAFCA's comment letter dated April 8, 2015, states that they will maintain it pursuant to a Turn Key Agreement. Further documentation will be provided to FEMA in the LOMR request after the project is built and accepted by AMAFCA.

16. Provide a plan that shows the limits of the channel improvements and the flood zone. The Grading Plan shows the limits of the channel improvements and the flood zones.