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July 21, 2021

Mailed via: E-mail

Troy Wolverton, P.E.
Anderson Wahlen & Associates
2010 North Redwood Road
Salt Lake City, Utah 84116

**RE: Technical Drainage Study for Maverick North Las Vegas
Losee Road & Lake Mead Boulevard
CNLV #147-2021**

Dear Mr. Wolverton:

Staff has reviewed the Technical Drainage Study for Maverik North Las Vegas Lake Mead and Losee, dated May 11, 2021 and Addendum No. 1 to the TDS, dated July 8, 2021 and found the hydrological and hydraulic analyses to meet the minimum accepted standards for a technical drainage study. The acceptance of this drainage study is contingent upon the following conditions:

1. Concurrence must be obtained by the Clark County Regional Flood Control District due to the proposed improvements proximity to Regional Flood Control Facilities
2. Concurrence must be obtained by the City of Las Vegas due to the proposed improvements proximity to the City of Las Vegas corporate City boundary.
3. The project proposes grading within Nevada Department of Transportation (NDOT) right-of-way. The engineer must contact NDOT for an encroachment permit for the proposed project and it must be received prior to approval of the improvement plans.

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4. The TDS indicates that only a portion of the Maverick site will be developed with this study. Technical Drainage Studies will be required for those portions of the site not improved with these improvement plans.
5. Coordinate with HDR Engineering on the City of Las Vegas CIP Project, Lake Mead Boulevard – Losee to Simmons Complete Street Upgrades, with regards to the improvements proposed at the intersection of Losee Boulevard and Lake Mead.
6. The site is accepting flows from off-site through the project. A public drainage easement must be provided for the flow path for the off-site flows. Call out the proposed drainage easement covering the on-site facilities necessary to convey these flows through the site. Provide adequate detail and dimensioning for the drainage easement on the grading plan. A minimum 20 feet wide easement to be privately maintained is required.
7. On Sheets C2.1 and C2.2, indicate jurisdictional boundaries (City of North Las Vegas, City of Las Vegas, NDOT, etc.) and right of way widths on the Grading Plan.
8. On Sheets C2.1 and C2.2, the Engineer must show existing and proposed infrastructure including all existing storm drain infrastructure in the public rights-of-way. Please review and revise accordingly.
9. The response to Original Comment 32 has not been adequately addressed. What type of surface treatment will be utilized to provide water quality benefits? On Sheet C2.1, label the low impact development measures proposed. Provide dimensioning or details that provide the length and width of the proposed surface treatment.

Please be advised that all land surface area disturbances over 1 acre and/or adjacent to a water way must submit a “Notice of Intent” to discharge to the Nevada Division of Environmental Protection, which certifies that a stormwater pollution prevention plan has been developed and is maintained on site. For more information including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm>.

Acceptance of this study does not imply approval of the grading plan associated with this site. A detailed review of the grading plan will be performed by staff during the improvement plan review process.

Any future changes in the proposed design (or design assumptions) as outlined in the approved drainage study and the attached preliminary grading plans which affect drainage must be addressed in a drainage study update and accepted by the CNLV Development and Flood Control Section. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, CNLV reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

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The City of North Las Vegas, its officials, or employees assume no liability for information, data, calculations and conclusions presented by the Engineer. We, therefore, make no warranties, either expressed or implied, in conducting this review. If you have any questions concerning this matter, please contact me at (702) 633-1933.

Note that the Clark County Regional Flood Control District (District) has begun efforts to update the *Hydrological Criteria and Drainage Design Manual (HCDDM)* and is requesting participation from the engineering community. The District is collecting comments and suggestions on errors, clarifications, or changes needed to the current Manual and/or content and usability enhancements to be incorporated into the updated Manual. Additional information on procedures and deadline to provide feedback and comments are available online at (<http://www.ccrfd.org/hcddmupdate.html>).

Sincerely,



Mark Escobedo, P.E., CFM
Engineering Associate
Public Works/Development and Flood Control
City of North Las Vegas
(702) 633-1933