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|----------------------------------------------------------------------------|---------------------------------------------|----|---------------------------------------------------------------------------------------------------|
| <b>CITY OF LAS VEGAS</b>                                                   |                                             |    | <b>DATE:</b>                                                                                      |
| <b>INTER-OFFICE MEMORANDUM</b>                                             |                                             |    | <b>July 28, 2018</b>                                                                              |
| <b>TO:</b><br>Land Development Services<br>Department of Building & Safety |                                             |    | <b>FROM:</b><br>Albert Sung, P.E.<br>Flood Control Project Engineer<br>Department of Public Works |
| <b>SUBJECT:</b>                                                            | Drainage Study for:                         |    | <b>COPIES TO:</b>                                                                                 |
|                                                                            | <b>Durango Beltway Plaza</b>                |    | Momeni Engineers, Inc.                                                                            |
| <b>Cross Streets:</b>                                                      | SWC of Rome Blvd. & Riley Street            |    | Great American Capital                                                                            |
| <b>File Number:</b>                                                        | F:\Depot\DSMemos\DS5018A.doc.doc            |    | Bart Anderson, P.E., DevCo                                                                        |
| <b>Parcel Number:</b>                                                      | 125-20-802-003                              |    | CCRFC                                                                                             |
| <b>Zoning Action:</b>                                                      | SDR-72808; SUP-72807; VAR-72806 & MOD-72805 |    | CCPW                                                                                              |
| <b>FEMA Flood Zone</b>                                                     | YES                                         | NO | <b>X</b>                                                                                          |
| <b>Proposed Storm Drain</b>                                                | YES                                         | NO | <b>X</b>                                                                                          |

| HISTORY                   | DATE RECEIVED | DATE REVIEWED | COMMENTS                   | REVIEW FEES     | FEES PAID<br>Payment Trn # |
|---------------------------|---------------|---------------|----------------------------|-----------------|----------------------------|
| 1 <sup>st</sup> Submittal | 7/11/2018     | 7/26/2018     | See Comments Below         | \$400.00        | 497205: \$400              |
|                           |               |               | <b>TOTAL FEES (LDDRS):</b> | <b>\$400.00</b> | ----                       |

#### REMARKS:

The Drainage Study for the subject project has been reviewed and:

|          |                                                                                                |
|----------|------------------------------------------------------------------------------------------------|
|          | is approved subject to conformance to all City standards and the following conditions:         |
| <b>X</b> | must be resubmitted or supplemented including the following:                                   |
|          | is conditionally approved subject to Clark County Regional Flood Control District concurrence. |
|          | is conditionally approved subject to Clark County Public Works Department concurrence.         |

1. The site is adjacent to or crosses an existing or proposed *Clark County Regional Flood Control District* (CCRFC) master planned facility. Therefore, CCRFC concurrence is required prior to final approval of the drainage study.
2. The site is also adjacent to the *Clark County Beltway* to the south. The engineer must coordinate with *Clark County Public Works Department* (CCPW) and incorporate any concerns for boundary conditions along the south border. CCPW concurrence is required prior to the final approval of the drainage study.
3. The area of existing onsite basin NX1 should equal to the combined area of developed onsite basins ND1 and ND2. However, based on the numbers shown in *Table 2* and *Table 3* of the subject study (Page 5) do not match up. Review and revise accordingly.
4. It appears that the undeveloped portion to the east will be parceled out in the future. A swale is proposed in this undeveloped portion to accept flow from the proposed development. This will burden the land use of the future owner of the parcel because a public drainage easement will be required across the middle of the property. A better route for the subject site to discharge is aligning to the southeast corner of the developed portion. Review and revise accordingly in the next submittal.

5. **Sheets DR1 & DR2:** Identify and label an existing *Clark County Regional Flood Control District's* facility with Q<sub>100</sub> flow. Show the 100-year water surface elevation in the sections of the regional facility corresponding to the buildings ends to verify that adequate freeboards are provided.
6. Also label the 100-year water surface elevations in the grading plans.
7. A berm is proposed at the back of sidewalk in *Rome Boulevard* for onsite building flood protection. Extend the berm westerly to close the gap with the adjacent driveway entrance. Also raise the height of the berm to 18" instead of 12". Revise the pertinent *Detail Section J/D-1* and all plans and construction notes accordingly.
8. Per the referenced *Centennial Hills Skilled Nursing* project to the east of *Riley Street*, the southern end of *Riley Street* is a cul-de-sac with a triangular-shaped public drainage easement adjacent to the *Beltway* to the south. Incorporate the actual conditions in the subject grading plans and all pertinent maps and exhibits accordingly.
9. Revise all proposed onsite storm drain to a minimum size of 12"-diameter. The proposed 6" will cause frequent clogging and maintenance burden for the property owner in the future.
10. Provide a note on the grading plans: All onsite storm drains and the associated facilities are privately owned and to be privately maintained by the property owner.
11. Add a note in all pertinent sheets for the construction of all storm drain drop inlets per a newly adopted USDCCA Drawing No. 421 (*Stormwater Quality Management Stamp and Sign Detail*).
12. In an effort to increase administrative efficiency, the *City of Las Vegas Public Works Department* requires all drainage studies submittals to be accompanied by an electronic copy of the submittal. Electronic documents must be submitted with one original hard copy of the study. Electronic documents should be on a universal computer-readable digital output replicating your submittal to be used for archival or display purposes. An Indexed Portable Document Format (PDF) or Print Ready CAD file formats with a minimum of 300dpi are the desired formats, but provided it is a high quality digitized replication of the submittal, other formats may be acceptable. If figures are in color, they must be scanned in color and saved as a separate file.

A required CD was missing in the last submittal. In the next submittal, supplement a CD of the original submittal as well as a separate CD for the new submittal.

**NOTE:** Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

**END OF REMARKS**  
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T/R/S: T19S/R60E/20  
AREA G-20