

**DESERT ROCK ENTERPRISES / TRE BUILDERS
THE D LAS VEGAS TOWER
LAS VEGAS, NEVADA**



The project site is located within the southeastern and southern portions of The D Las Vegas property bordered by 4th Street and Carson Avenue in downtown Las Vegas, Nevada. The existing delivery lot in the southeast portion is paved with asphalt concrete and borders 4th Street and valet lanes to the south with a pool beyond. The covered valet area has asphalt concrete travel lanes and borders a structure to the south with Carson Avenue beyond. Several land parcels made up the areas of proposed improvements, including a vacated alley extending northeast-southwest in the middle of the property. Prior to any work starting it was anticipated that several private utilities extend, specifically, beneath the delivery lot

Tre Builders contracted GES to perform geotechnical evaluations for the planned construction of an up to 7 story tower with roof-top pool in the delivery lot located in the southeast portion of the property. The tower construction elements were not known at the time of the evaluation, but the conceptual plan included concrete and/or steel frame members. The tower footprint would likely maximize the space available in this area and could include demolition of an existing auxiliary building.

GES' geotechnical evaluation of the anticipated building footprint included air-knifing, drilling, logging, and sampling of exploratory borings; performance of a geophysical ReMi survey to measure seismic site class; and geophysical GPR testing to locate underground utilities. The findings of the study were presented to the client.

As part of the project, the building tower might also be constructed in the area of the covered valet parking/registration area located along the southern portion of the property. GES was also told that as part of the improvements, a below ground delivery/loading dock could be constructed.

To incorporate these alternate designs, GES performed and incorporated additional evaluations into the final geotechnical report. The additional evaluations included; air knifing to identify utility locations at the alternate site, logging and sampling of additional exploratory borings of 50ft each, and soil sample testing for moisture and density, sieve analysis, Atterberg limits, consolidation, direct shear, swell potential, and various chemical testing.

Based on review of the Clark County Shear Wave Velocity Profile Map (CCSWVPM), the property is located in an unmapped area for seismic site class. As per the 2009 IBC, the best attainable seismic site class for a site without more elaborate testing is a "D." As a means to assess the seismic site class designation specifically on the project site, GES performed on-site geophysical testing to evaluate the seismic site class per the definitions presented in Table 1613.5.2 of the 2009 IBC.

PROJECT OWNER:
Desert Rock Enterprises

GES CLIENT:
TRE Builders

POINT OF CONTACT:
Mr. Rob Baker
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TOTAL PROJECT COST:
\$10,000,000

FIRM RESPONSIBILITY
\$30,000

