

# CITY OF LAS VEGAS 500 SOUTH MAIN STREET PARKING GARAGE LAS VEGAS, NEVADA



The project consisted of the construction of a 700-space concrete parking garage structure with an at-grade level with 4 raised levels. The garage structure is fabricated with precast concrete members that were bolted together and topped by a thin cast-in-place concrete slab for each of the raised levels. The at-grade level included both concrete and asphalt pavements in the driveway and parking areas. Concrete retaining walls were constructed up to approximately 7 feet in height along the north and west perimeters of the at-grade level of the structure. The at-grade level of the parking garage included a retail area along the Main Street side approximately 3,900 square feet in size and will be enclosed with masonry walls. Masonry walls will also enclose the elevators, equipment rooms, storage rooms, electrical rooms and trash enclosure. The parking garage structure is supported on spread footings up to 17 feet square in size and between 24 and 39 inches thick, except footings for shear walls which are up to 96 feet in length and up to approximately 6 feet thick. As part of a future project, a pedestrian bridge will connect to the west side of the third raised level of the parking garage to provide access to the west side of the Union Pacific Railroad right-of-way and areas beyond including Symphony Park.

*The project site contained large areas of petroleum contaminated soil, which had to be tested for concentrations of specific contaminants prior to being tested for geotechnical suitability as structural fill material. This required additional coordination with the contractor's environmental consultant so that GES only sampled soil for suitability testing. After the clearance was received from the environmental consultant. This required nearly daily coordination between GES' earthwork inspector and the contractor's environmental consultant. Once the cleared soils were sampled, the suitability testing was expedited so that the contractor could get results and move the soil on the site efficiently.*

GES' scope of services included; providing observation and testing during construction of the parking garage. GES provided special inspections in accordance with the 2006 International Building Code (IBC) for the following items: steel construction, concrete construction, masonry construction and soils. As an optional task, GES provided soil management supplemental environmental sampling as requested. GES also performed periodic observations and testing during placement of asphalt pavement for parking areas and driveways. Upon completion of observations and testing for the project, GES prepared a QAA Final Report which included the results of all field observations and laboratory tests including any non-compliance issues that and the contractor's environmental consultant. Once the cleared soils were sampled, the Suitability testing was expedited so that the contractor could get results and move the soil on the site efficiently arise during the project.

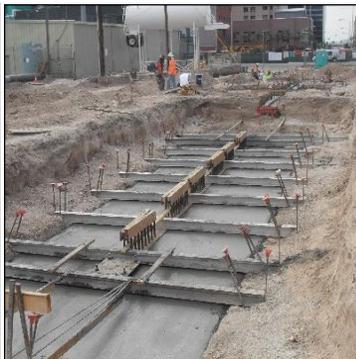
**PROJECT OWNER:**  
City of Las Vegas

**GES CLIENT:**  
City of Las Vegas – Public Works

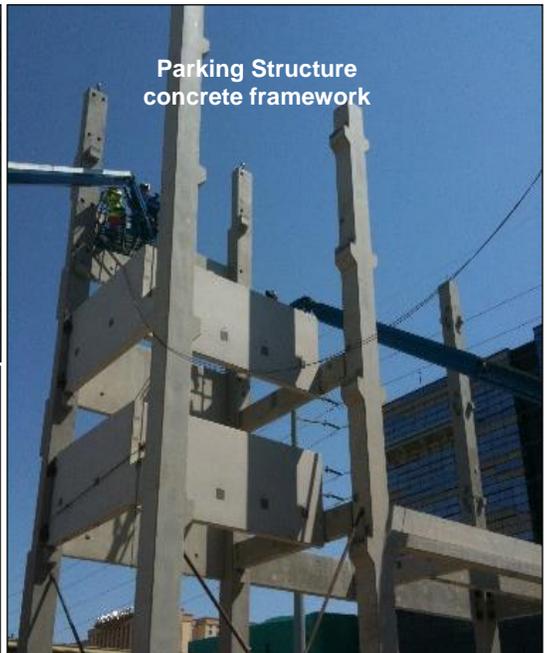
**POINT OF CONTACT:**  
Mr. Mark Potokar  
(702) 229-4979

**TOTAL PROJECT COST:**  
\$20,000,000

**FIRM RESPONSIBILITY**  
\$184,260



GES' Ryan Carey performing field moisture density tests



Parking Structure concrete framework

## OTHER GES PERSONNEL WHO PROVIDED SERVICES NOT LISTED ON FORM H

Paul Simpson – Sr. Staff Engineer  
Anthony Brower – Laboratory & Field Supervisor  
Paul Simpson – Quality Manager

Thomas Thompson – Special Inspector  
Ryan Carey – Materials Testing Technician  
Michael Janoff – Laboratory Technician