

Taking ground engineering to a deeper level



TECHNICAL REFERENCE



# DC Marriott Marquis

Washington, D.C.



**Drilled Shafts**

**Slurry Wall**

Owner / Engineer:

HQ HOTEL, LLC

Geotechnical Engineer:

GEI Consultant, Inc.  
Mueser Rutledge Consulting Engineers

Construction Manager

Hensel Phelps Construction, Co.

The project was located across from the Washington D.C. Convention Center in Mt. Vernon Square, at the corner of 9th Street and Massachusetts Avenue NW. The **DC Marriott Marquis, houses a luxury hotel, retail shops and restaurants in the heart of the city.**

The foundation work consisted of approximately 175,000 sq. ft. of slurry wall and 142 drilled shafts for the seven level underground garage and hotel facilities. The foundation work was awarded to a TREVIICOS lead joint venture, DC Slurry Partners. It consisted of 95 slurry wall panels with a thickness of 36 and 42 inches and depths of up to 123' deep, 142 drilled shafts 5, 6 & 7 ft. in diameter, with depths exceeding 150'.

The slurry wall will acts as support of excavation and water cut off, while drilled shafts will facilitate the top-down construction method selected.

Among other challenges, the project involved working around the PEPCO Power Station and several underground live power cables

To address the particular needs of the client, three different methods were used to create joints for the slurry wall. Creating a milled-joint with the Soilemec SC 120 Hyrdomill was the primary method throughout the project, but soldier piles and traditional end stops were used when required by the design.



Slurry Walls	
Wall length:	1,467 ft
No. of panels:	95
Average depth:	120 ft

Drilled Shafts	
Shaft diameter:	5 - 7 ft
No. of shafts:	142
Average depth:	up to 152 ft

[treviicos.com](http://treviicos.com)



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