

Taking ground engineering to a deeper level



TECHNICAL REFERENCE



Encore Boston Harbor

Boston, MA



Slurry Wall

LBES

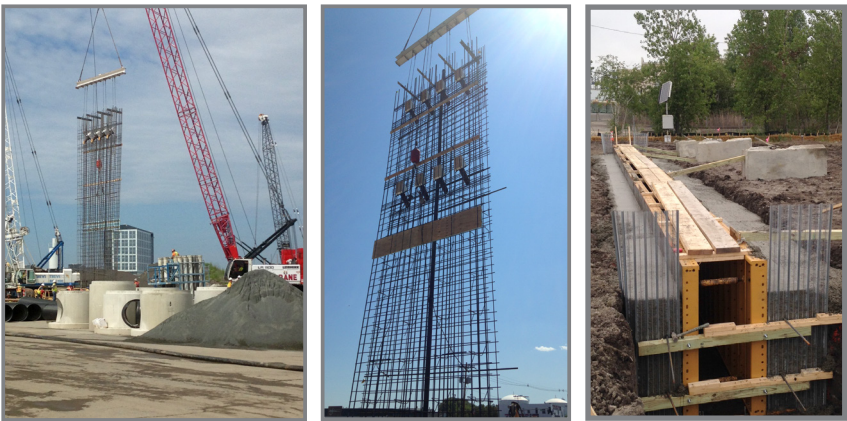
Owner:	WYNN RESORTS
Geotechnical Engineer:	GZA (Owner) / GEI (Treviicos)
General Contract:	Suffolk Construction Co.

2016-03

Upon completion, this 2.5-billion-dollar casino project will have 27-stories (3 of which are underground), contain 2,900 mostly underground parking spots, house a convention center, retail shops, a luxury resort and spa, restaurants and bars.

The foundation/support of excavation (SOE) work consisted of a 30" thick Slurry Wall (SW) and 48" Load Bearing Elements (LBEs).

Due to the challenging soil conditions and the vicinity of the harbor, the slurry wall was complemented with tiebacks.



Slurry Walls and LBEs	
Total length SW:	2400 ft (730 m)
Vertical area SW:	180,000 ft² (16,700 m²)
Average depth SW:	75 ft (23 m) up to 119 ft (36 m)
Thickness SW:	2.5 ft (76 cm)
No. of panels SW:	106
No. of LBEs:	51
Vertical area LB:	47,500 ft² (4,400 m²)
Average depth LBEs:	102 ft (31 m)
Value original contract	USD 31.25 mln

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