

Taking ground engineering to a deeper level



TECHNICAL REFERENCE



121 Seaport blvd. L2

Boston, MA



Slurry Wall

LBES

Owner: SCD L2 SEAPORT SQUARE, LCC

Geotechnical Engineer: Haley & Aldrich Inc.

General Contract: SKANSKA USA Building Inc.
SKANSKA USA Civil Northeast Inc. (1st Tier Sub-contractor)

2015-03

The project is located at the corner of Seaport Blvd. and East Service Rd. in Boston, MA.

The 21-story building (of which 3 underground) will be used for parking, offices and retail spaces. The foundation work consisted of a 36" thick Slurry Wall (SW) and Load Bearing Elements (LBEs) for top-down construction of the garage structure which includes three levels of underground parking. The slurry wall has both temporary and permanent functions as, respectively, support of excavation and foundation wall.

The slurry wall and LBEs were constructed through layers of fill, organic and marine deposits (sand, silt, gravel); numerous made-made obstructions were encountered. Part of the slurry wall was installed as close as 3ft from the MBTA Silver Line tunnel.



Slurry Walls and LBEs	
Total length SW:	63 ft (192 m)
Vertical area SW:	38,500 ft ² (3500 m ²)
Average depth SW:	64 ft (19.5 m) up to 86 ft (26 m)
Thickness SW:	2.5 ft (76 cm)
No. of panels SW:	28
No. of LBEs:	50
Average depth LBEs:	59 ft (18 m)
Value original contract	USD 5.72 mln

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