Grand Central Station 42nd Street
Sheet Waterproofing

Country	USA, New York City
Type	Transit, Railway, Metro
Client	MTA
Main Contractor	Skanska USA
Execution of the work	Renesco Inc.
Designer	Gall Zeidler Consulting
Construction Period	2024

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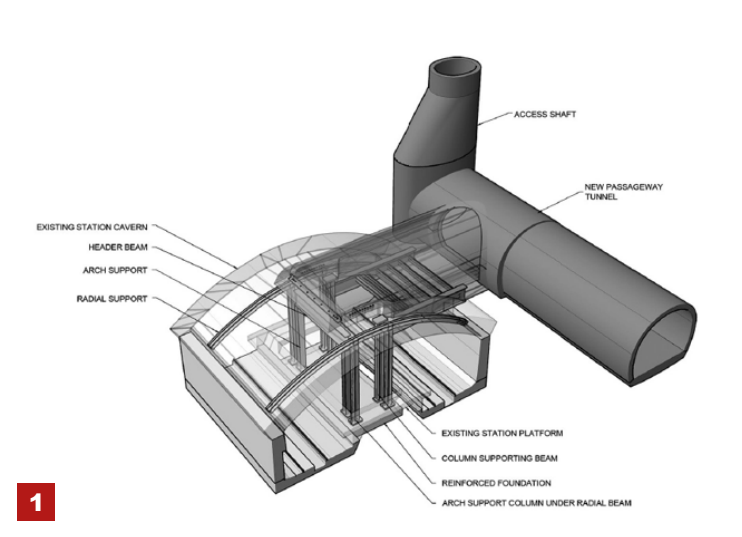
Project Description

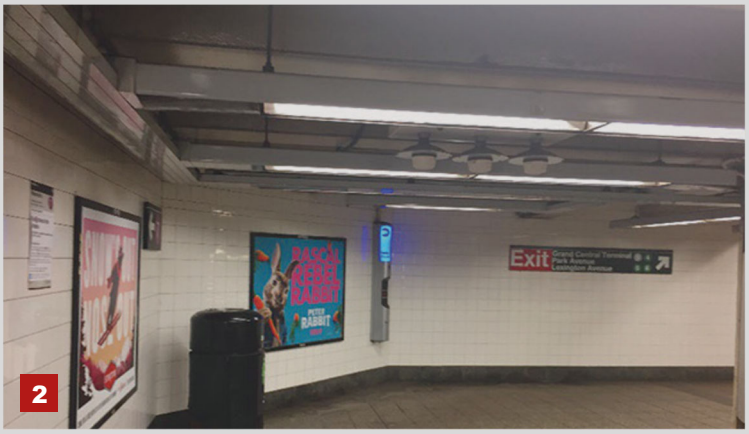
New Passageway Tunnel for Circulation Improvements at Grand Central - 42nd Street Station, New York City, that connect the heart of Midtown. The project includes redesigning platforms, adding elevators and stairs, installing in-station artwork, replacing escalators and stairways, and transforming the 42 St Shuttle into a fully accessible service. The passageway includes the break-in of an over 100-year-old station cavern with an innovative design implementing a protective structure above the existing track to allow for safe train operations and passenger circulation during construction. Construction of the new passageway follows the Sequential Excavation Method (SEM).

Scope of Service

Scope of work includes supply and installation of loose laid full-round (360°) waterproofing system between the primary and final shotcrete lining. The system includes:

- 100 mil (2.5mm) PVC-P sheet waterproofing
- Geotextile, Polypropylene (22oz./sq. yd)
- PVC-P Water barriers (1'-5" width, 17" height, 6 ribs)
- Remedial Grouting System & Concept (including remedial grout ports and re-injectable hoses along waterbar and at the termination locations)
- BA anchors
- Termination at existing structures with adhesive strip/tape





1. Isometric view of the new passageway tunnel, station connection and access shaft
2. Existing passageway
3. Shaft access from the street