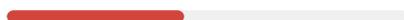


Railway Station building, outdoor areas,
station car parks, connection to the
pedestrian underpass and upgrading

Ferentino, Italy

Rome - Naples Railway Line

45% Engineering



50% Architecture



5% Geology - Geotechnics



Subcontractor: ETS S.r.l.

Contractor: Mattia Costruzioni srl

Contracting Authority:

RFI - Rete Ferroviaria Italiana

Type of service:

Final and executive design

Works covered by the service:

Station building, outdoor areas, station car parks, connection to and upgrading of pedestrian underpass

Place of realisation of the works designed:

Rome - Naples Railway Line

Period of provision of the service:

2016-2017

Value of the works designed:

€ 5,147,000,00

DESCRIPTION OF THE SERVICE PROVIDED

This technical description covers the works undertaken to restyle the Station Building and the outdoor areas, to expand the station car parks and to reconfigure the connections to the pedestrian underpass of Ferentino station on the Rome - Naples, via Cassino railway line. The project included an integrated series of works with specific purposes as briefly listed below:

- 1) Expansion of the station car parks with shaping of the terrain, also through the construction of containing walls;
- 2) Restyling of the Station Building and the outdoor areas;
- 3) New rainwater disposal systems;
- 4) Reconfiguration of the connections to the pedestrian underpass, with upgrading of the multipurpose pedestrian walkway inside it, and new lifts;
- 5) Reconfiguration of the pedestrian ramp at the lower end;
- 6) Functional upgrading of the systems.

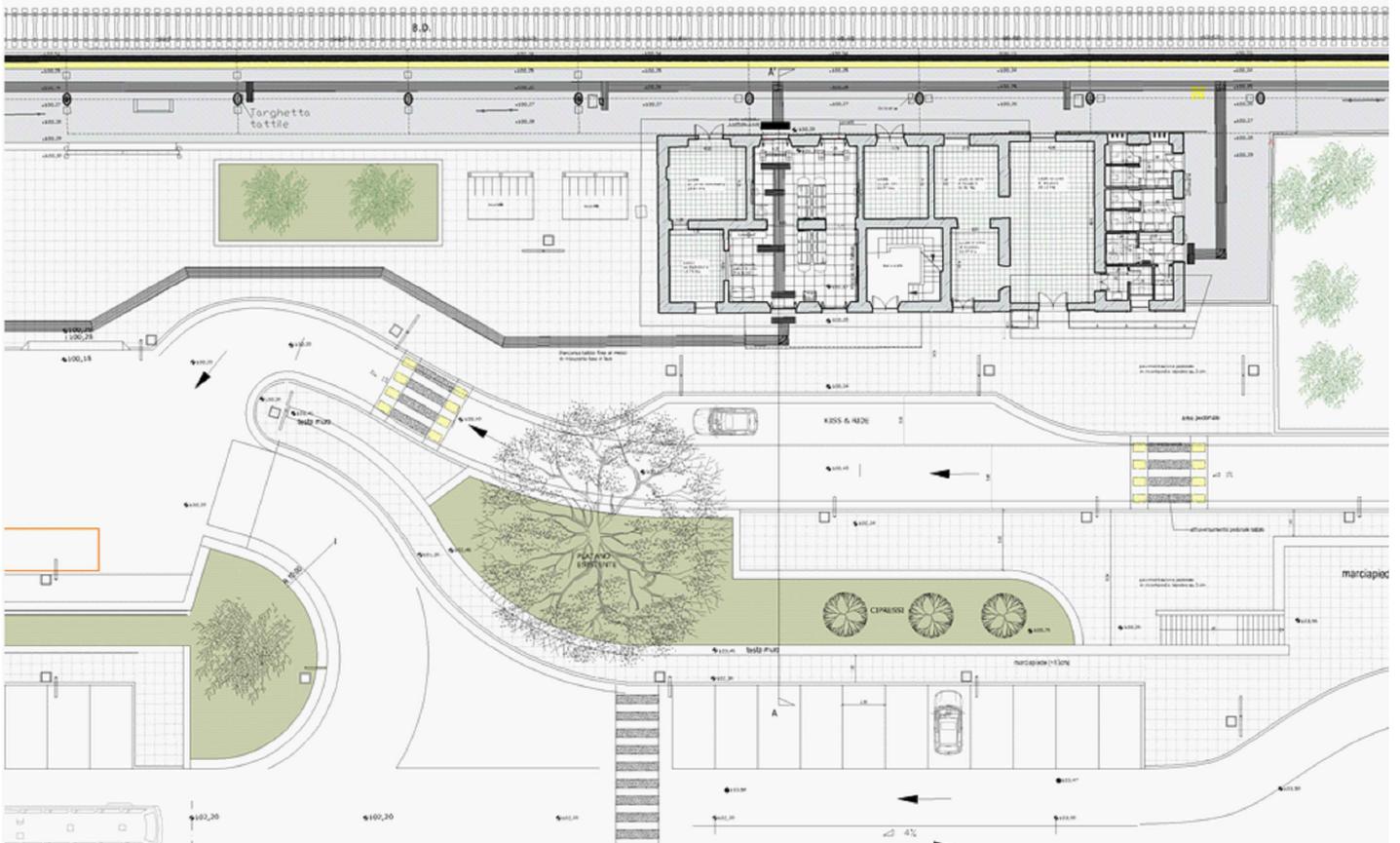
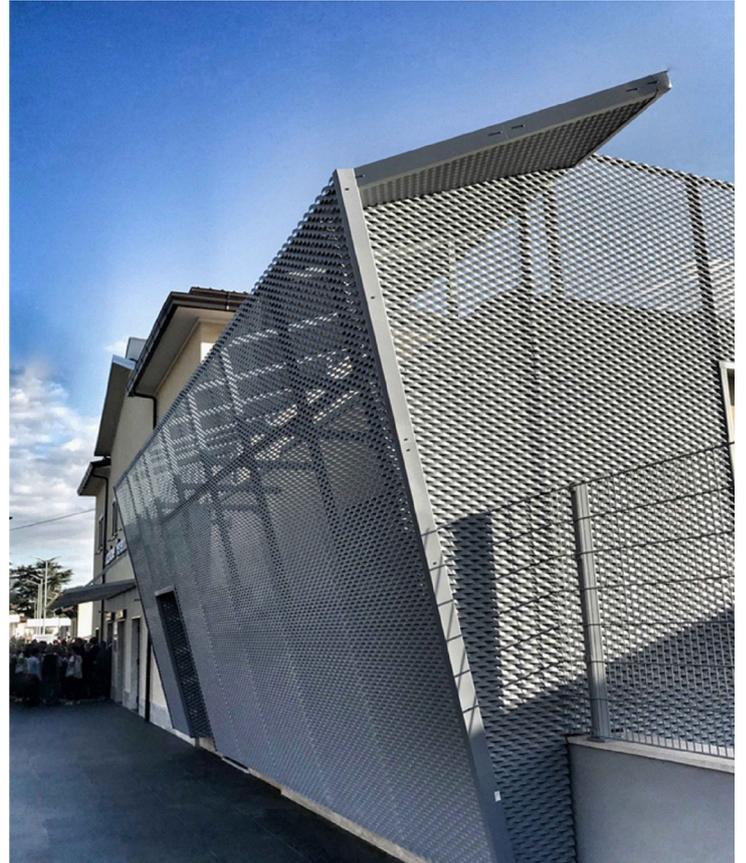
In addition to mere upgrading to comply with the latest standards, the main aim of the project was functional and architectural restyling, to improve comfort and accessibility for passengers in transit and to remove architectural barriers.

The project was within the category of works covered by art 3 of Italian Presidential Decree 380/2001 as amended, comma 1 subsections 3, and Italian Presidential Decree 130/2010, annex 1, points 10 and 13.

Photograph of the work designed



Photograph of completed project



Ground plan of station building and new external layout of pedestrian and vehicle areas

DESCRIPTION OF THE SERVICE PROVIDED

- 1) Restyling and enlargement of car parks

The car park expansion and restyling project was carried out by dividing the area into two functional lots, leaving the enlargement on the Rome side to the second phase. The car park restyling works involved the rationalisation of both the traffic connecting roads and the parking areas, with the parking spaces arranged to optimise parking efficiency combined with easy access to vehicles. The project envisaged the rebalancing of the ramps connecting to the various car park levels and the enlargement of the car park to the north west, with the new area also to be on 2 different levels. The containing walls marking the boundaries of the parking areas on the various levels were clad with pale-coloured stone, while the new green areas, between the spaces which separate the various car parks and the new internal roads, will be planted with shrubs and trees. Traffic access to the car park was upgraded to include a drop-off area next to the Station Building, to enable cars to pass briefly across the front of the building to facilitate traffic flows and reduce possible congestion. LVE system tactile paving paths for the visually impaired were installed on all paved areas.

- 2) Restyling of the station building

The state of the station building was very different from its original appearance as documented in the period photograph dated 1918. The moulded decorations on the facades, the arched ground floor doors and windows, and also the roof tympanum on the side where platform 1 is today, had all been lost.

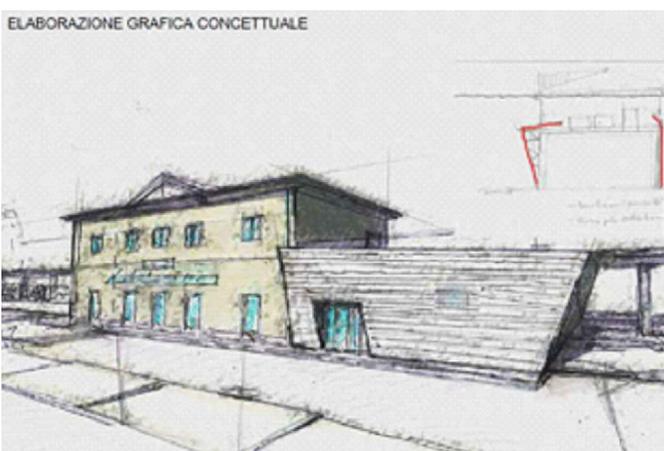
On the Rome side, an extension had been constructed to house the station's toilets. As well as the renovation and functional restyling of the interiors, the project also involved the restyling of the building as a whole, including the transformation of the low-level extension housing the toilets to clearly indicate its separateness from the main building and render the form of the original building clearer. This characterisation was achieved using a "building skin" system of expanded metal mesh which adds a contemporary touch, in combination with a wider, matching set of additions including the new station platform canopies, the upgrading of the platforms to the metropolitan standard, the enlargement of the car parks, the installation of access control turnstiles, the demolition of the pedestrian bridge and the installation of the new vertical links to the existing underpass.



Historic photograph



Photograph prior to works



Sketch of project

- 2) Reconfiguration of underpass connections

To enable better use of the pedestrian underpass, the project involved the restyling of the flights of steps, as well as new canopies over the steps and new lifts.

- 3) Reconfiguration of the pedestrian ramp at the lower end

The ramp connecting the pedestrian entrance from via Morolense to the platform was redesigned.

The path of the new ramp, with slope suitably calculated to allow use by the disabled, was rationalised and it was realigned with the new location of the entrance to the underpass, to allow access to either the platform or the underpass by means of steps or lifts.

In this area, the project was completed by the redesign of the green area bordering the road.



Station Building elevation

PROJECT TECHNICAL SPECIFICATIONS

Ferentino Railway Station building, outdoor areas,
station car parks, connection to the
pedestrian underpass and upgrading

PROJECT DATA:

Contractor: Mattia Costruzioni srl
Contracting Authority: RFI - Rete Ferroviaria Italiana
Rome - Naples Railway Line
Type of Project: Transport, Retail, Restyling
Award: A.Q. 126-2015
Design: 2016-2017
Status: Completed
Area of Site: 17000 mq
Buildings: 2720 mc

PROJECT MANAGEMENT:

Project Manager: Marco Terracciano
Architectural Design: Marco Terracciano
Design of Structures: Francesco Marafini
System Design: Ing. Paola Pericoli
Electric Traction Design: Ing. Gabriele Miceli
Design Safety Coordinator: Arch. Marco Terracciano

PROJECT TEAM:

Ing. Luca Terrile
Geom. Pietro Pucci
Ing. Manuela Borghini
Ing. Ilaria Rizzello



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