



# BIM projects

BIM project

# Bus and cycle lane in Bajo Llobregat in Viladecans (Barcelona)

Country  
**Spain**

Client  
**Department of  
Transportation. Regional  
Government of Catalonia**

Length  
2,480 m

Year  
2020



The works affected the C-245 road as it passes through the municipality of Viladecans with a length of 2,480 meters. Two lanes combining bus, private vehicles and bicycles were built between Pi Margall street and the Paseo de la Marina roundabout. The works also included the building of a large square next to the funeral parlour.

This was the largest of the actions planned for the upgrading of 13 km of the C-245 between the cities of Castelldefels and Cornellà de Llobregat to provide a bus lane, a bicycle lane and order in the urban environment of the road..

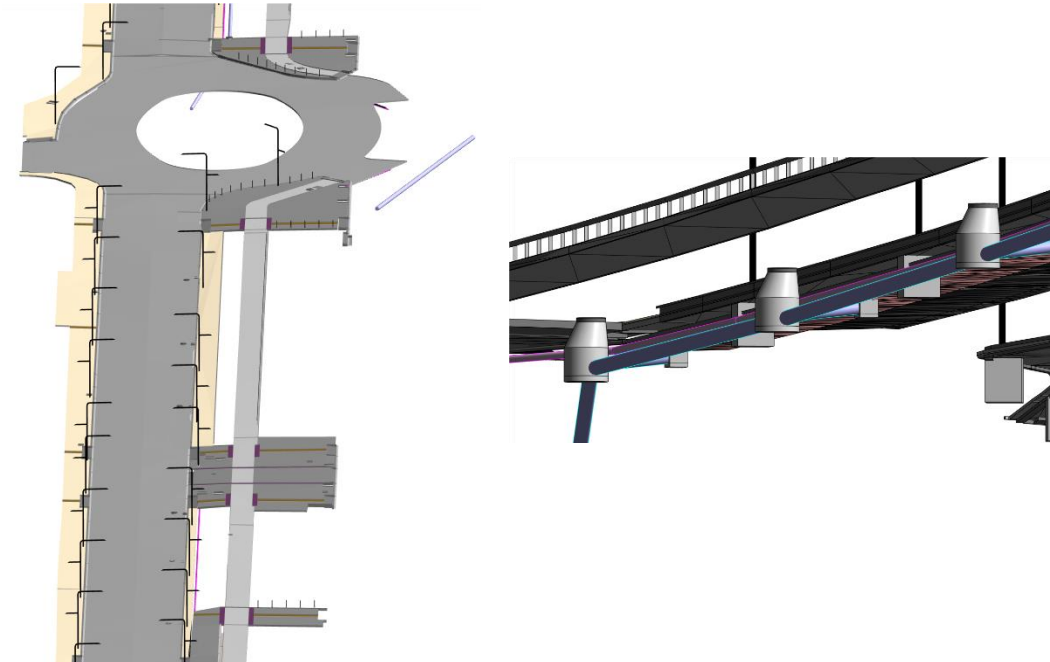
The new bus lane increase commercial speeds on urban stretches by up to 25%, improving traffic safety and the reliability of public transport services.

This work belongs to Infraestructures.cat, an administration that has its own standards for receiving models made using this methodology. The following deliverables were prepared:

**Pre-construction model:** model generated from the execution project and which served as a basis in the monitoring phase to see what has been executed and what remains to be executed.

**Monitoring model:** model that collects the elements actually executed with bimonthly updates of the evolution of the work.

**“As-Built” model:** complete end-of-work model that includes all the elements executed and contains useful information for the exploitation phase according to the information requirements defined by the property.



BIM project

# New rail station in Albal (Valencia)

Country  
**Spain**

Client  
**Spanish Railway Infrastructure  
Administrator (ADIF)**

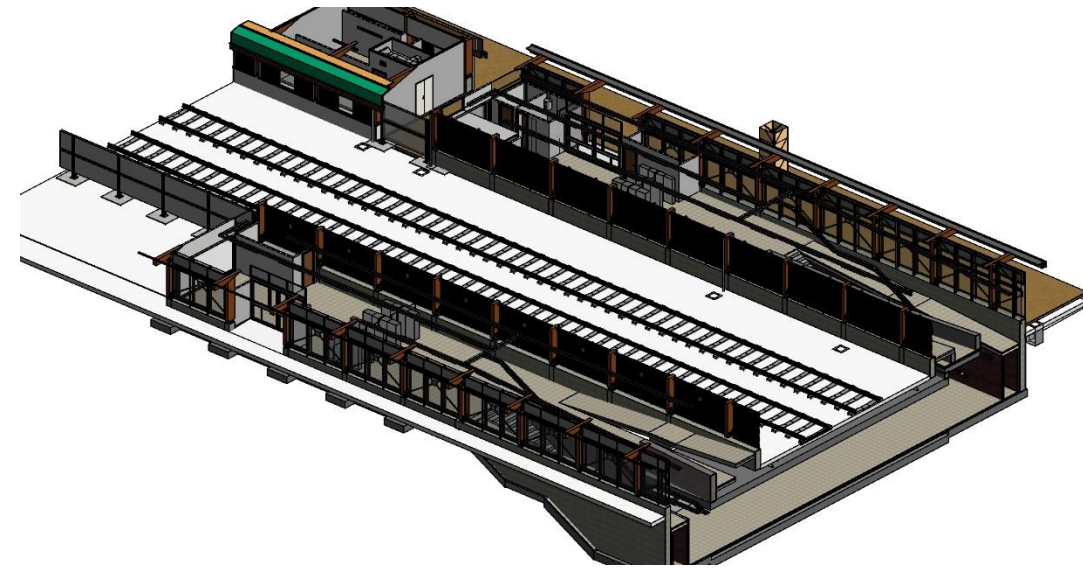
Year  
**2020**



The new Albal railway station is located on the Valencia Nord-Silla section of the Valencia commuter train network, between the stations of Silla and Catarroja. The increase in population caused by the urban growth of the areas of Albal, Catarroja (north of Albal) and Silla (south of Albal) has made this new infrastructure necessary. The Albal terminal has relieved the Silla and Catarroja stations of congestion at peak times, providing the municipality with the possibility of access to the train both for its own residents and for those from Catarroja due to the reduced dimensions of its car park.

The railway station has a total length of 264.70 m, including the station building, facilities building and platforms. The project is located on the existing railway line.

Model of architecture, structures and facilities. Purpose of the model: to create an as-built model that was previously updated according to the progress of the work.





BIM project

# Accessibility improvement of the Ramón y Cajal railway station (Madrid)

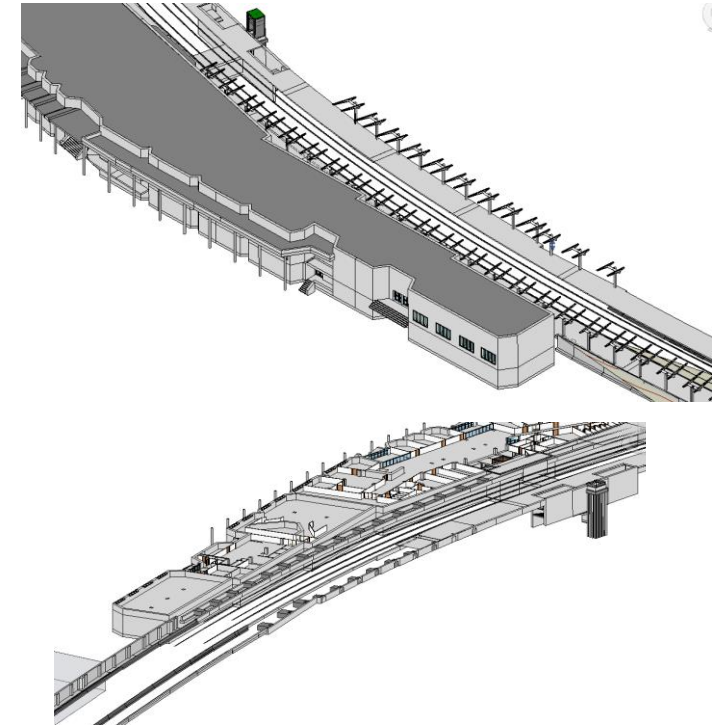
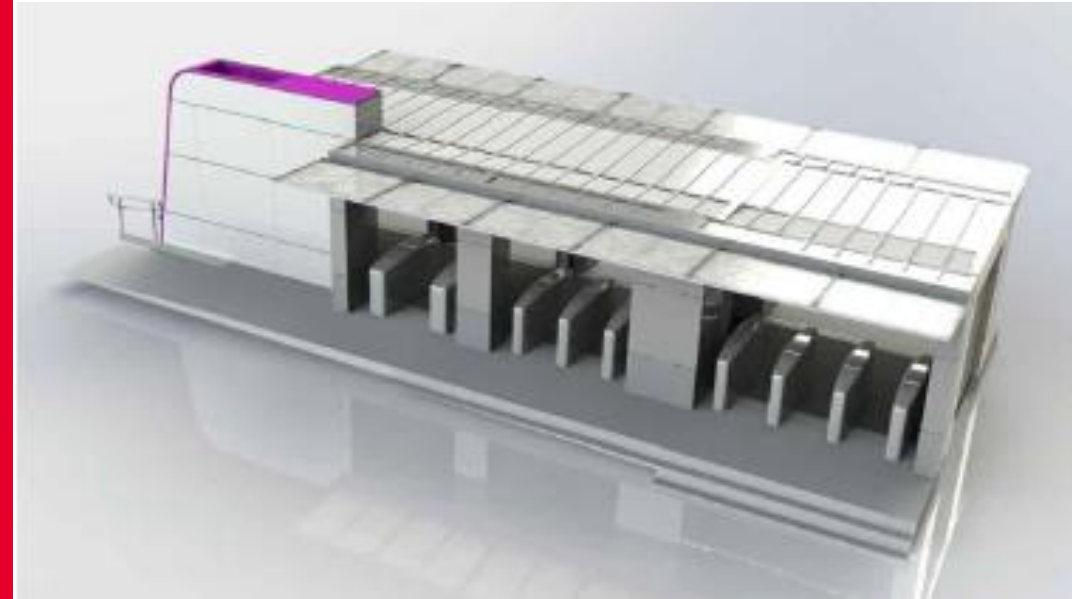
Country  
**Spain**

Client  
**Renfe Viajeros**

We are currently developing the necessary documents for the correct definition of the works at the Ramón y Cajal station, consisting of:

- Increased length of 200 m on platforms 1 and 2.
- Improving the accessibility of the existing underpass through the installation of two elevators.
- Partial adaptation of the interior of the passenger building.

To do this, we have a BIM model located in the CDE Construction Cloud that facilitates collaborative work.



BIM project

# Isabel de Basilea Infant and Primary Education School in the Villímar district (Burgos)

Country  
**Spain**

Client  
**Department of Education of the  
Castilla y León Regional  
Government**

Year  
**2021**

The new educational complex has an available area of 1,800 square meters and capacity for 450 students, of which 150 make up the Preschool and 300 the Primary School portion, whose spaces are differentiated.

The building has two floors in which the computer, music, language and multipurpose classrooms are distributed. It also has administration and common services areas, where the gymnasium, library, dining room and kitchen are located. The new center also includes the construction of outdoor spaces with a playground, sports court, car park and garden area.

**lantania**

Model of architecture, structures and facilities. The use of the model was very useful in the review and decision making in the construction process, which was updated until an As-built model was delivered.

Executed in a collaborative data environment, BIM360 according to ISO:19650.



BIM project

# Torrejón de Ardoz police station (Madrid)

Country  
**Spain**

Client  
**State Security Infrastructure and  
Equipment Department**

Year  
**In progress**

Construction of a new building for the location of the Local Police Station of the National Police Force in Torrejón de Ardoz (Madrid) on a plot of 3,437m<sup>2</sup>, with three floors above ground and a basement floor.

We have the model of architecture, structures and facilities that is being very useful for the execution of the work. The model will be updated in order to develop an as-built model.

