

## Civil design for railway-road continuous grade separation of Otagawa Station area



**Ordering party** : Nagoya Railroad Co., Ltd  
**Location** : Ota-machi and Takayokosuka-machi, Tokai City, Aichi Prefecture  
**Project title** : Railway-road continuous grade separation project for Otagawa Station of Tokoname Line / Kowa Line and neighboring area (3rd phase of continuous grade separation project of Tokai area)  
**Total project cost** : Approx. 34 billion yen  
**Classification** : Elevated bridge for railway-road continuous grade separation  
**Structure** :  
 (number)  
 -RC rigid frame viaduct ( 58 )  
 -RC bridge pier (3)  
 -Steel bridge pier (5)  
 -Leveling improvement of existing bridge pier (40)  
 -Reversed T-type abutment (1)  
 -RC slab bridge (91)  
 -PC bridge (16)  
 -H steel bored bridge (2)  
 -I girder bridge with steel plate deck (6)  
 Extension : Approx. 2.1km for Tokoname Line, 0.7km for Kowa Line  
**Width** : 9.42m to 35.3m  
**Platform** :  
 -2F: 2 sections for 4 lines  
 -3F: 1 section for 2 lines  
 165m extension and 5m to 9m in width  
 Project approved : On September 20, 2001  
**Construction** : Scheduled from October 2008 to March 2012  
**Civil construction** : Scheduled from October 2008 to March 2011

Otagawa Station of Meitetsu Tokoname Line running north to south of Tokai City is located approximately 17km from Shin-Nagoya Station and in the middle between Nagoya City and Tokoname City where the Central Japan International Airport was built. The station has been playing an important role in the growth of Tokai City as a junction of Tokoname Line and Kowa Line, the transportation artery of Chita Peninsula.

However, because of the motorization for years, railway crossings around the station have caused heavy traffic and prevented efficient urban development, for example, they divided local communities. To solve these problems and promote the sound urban transportation and development, they adopted an urban planning of the south area of Otagawa Station in January 1976, then, the plan was changed later in September 1991 to promote the grade separation project around the Otagawa Station.

At the same time, land readjustment and town redevelopment were progressed in this area as an attractive gate town of Tokai City.

This project is expected to have the following effects:

- Avoid traffic jams and accidents by removing crossings
- Integrate urban functions of this area which has been separated by the crossings, and create an attractive city
- Utilize new space produced by the project, such as a car parking lot, bicycle parking area, playground, and the pedestrian road
- Improve 1)station facilities with barrier-free system, 2)crowded platforms, concourses and access ways, 3)access to the railway facilities by developing station plaza