Infrastructure Division

We promote innovation and sustainability in key infrastructure

We actively participate in infrastructure rehabilitation, improving efficiency in health, housing, industry, and transportation projects

At Magtel's Infrastructure Division, we have demonstrated our commitment to innovation and sustainability through various initiatives in 2024:

- We have been involved in the digitization of urban water networks
- We have developed healthcare-related infrastructure, participating in projects such as the Reina Sofía University Hospital's Maternity and Children's Hospital and the health centers in Bujalance and El Ejido.
- We have also actively participated in residential projects, such as the construction of 20 subsidized housing units for the Góngora residential complex, and in industrial projects, improving the efficiency and competitiveness of facilities.
- We have carried out the rehabilitation of strategic transport infrastructure, such as the Villa del Río bridge, ensuring the safety and functionality of these structures.

These actions reflect our commitment to continuous improvement and innovation in infrastructure management, contributing to a more sustainable and efficient future.

Magtel

INNOVATION & TECHNOLOGY

HYDRAULIC INFRASTRUCTURE

- RENOVATION OF SUPPLY AND SANITATION NETWORKS
- PIPE REHABILITATION
- INTEGRAL WATER CYCLE
- FAULT REPAIR AND NETWORK MAINTENANCE
- REPAIR OF FAULTS AND MAINTENANCE OF NETWORKS
- RENEWAL OF METER PARK AND IMPLEMENTATION OF NEW OPPORTUNITIES
- PURIFICATION
- IRRIGATION
- DESALINATION

CIVIL ENGINEERING

- LINEAR TRANSPORT INFRASTRUCTURES
- URBAN DEVELOPMENT WORKS
- WASTE MANAGEMENT AND RECYCLING
- INDUSTRIAL WORKS
- LARGE INFRASTRUCTURES
- MINING
- SURVEYS AND EXPLORATION
- PROCESS PLANTS
- WATER TREATMENT PLANT

BUILDING

- NEW RESIDENTIAL
- CONSTRUCTION
- INDUSTRIAL
- PUBLIC SERVICES
- RENOVATION OF HISTORIC
- BUILDINGS
- COMPREHENSIVE REFURBISHMEN

Installation and maintenance of CTAC modules in Emasesa's meter reading service

Deployment of equipment installation for the new NB-IoT water meter reading system

Solutions implemented for the company Contazara and the Seville Metropolitan Water Company (Emasesa)

We have successfully deployed NB-IoT technology for water meter reading in the city of Seville and 11 towns in the province. This implementation enables real-time transmission of consumption data, improving supply management efficiency and facilitating early detection of incidents.

Thanks to this technology, consumption monitoring is now more accurate and automatic, eliminating the need for manual readings and optimizing billing processes. With this advance, we are reinforcing our commitment to innovation and sustainability in water management.

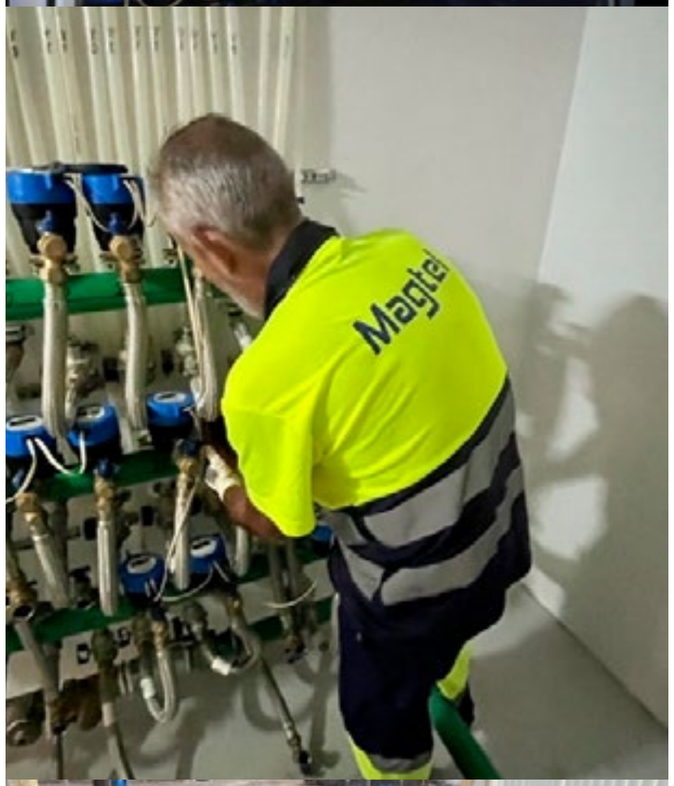
Services for connecting utilities and operating the meter park and complementary work

Installation of connections to the Emasesa supply and sanitation networks.

As part of the execution of this work, key actions have been carried out, such as:

- Restoration of service
- Installation of new meters
- Management of voluntary and automatic disconnections.

In addition, work has been carried out on public roads to ensure the correct installation and operation of the equipment, thus guaranteeing an efficient service adapted to the needs of users.



Installation of water quality stations, flow meters, sector control in supply networks, and water level gauges.

In the sanitation network managed by Emasesa

Actions belonging to the Perte digitization of the water cycle, within the framework of the recovery, transformation, and resilience plan (PRTR)

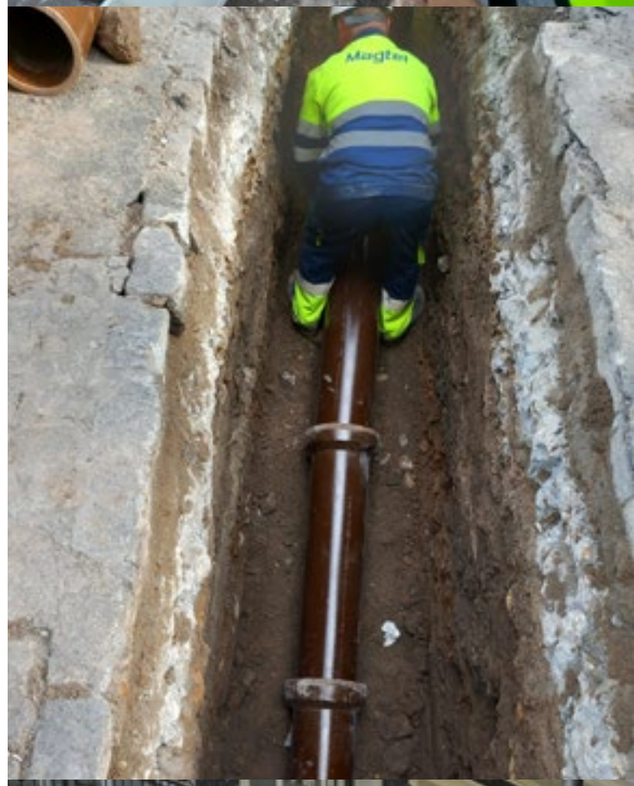
Various installations were carried out for the monitoring and control of the supply and sanitation networks, including the installation of flow meters, water level gauges, and probes for water quality monitoring. In addition, control cabinets and connections have been installed on public roads, as well as remote-controlled valves to optimize the sectorization of the arterial networks. Specialized equipment was also implemented to measure the physical and chemical properties of the sanitation networks in the Ranilla basin, ensuring efficient monitoring of the operational and environmental parameters of the water system.

Connection services, meter park operation, and complementary work

As part of our ongoing service improvement efforts, we have carried out installation and maintenance work on Emasesa's meter park, ensuring its proper functioning.

Among the actions carried out, the following stand out:

- Inspections to detect and eliminate fraud, ensuring responsible use of the resource.
- As part of the measures taken in response to the drought, inspections of supplies have been intensified.
- The installation and maintenance of remote reading systems, which have made it possible to optimize consumption monitoring.
- Verifications have been carried out with portable standards to ensure the accuracy of measurements and transparency in billing.



Maintenance and rehabilitation of collectors belonging to the EMACSA network

Rehabilitation work by UTE Magtel & Insituform

Maintenance and rehabilitation work on collectors belonging to the EMACSA network using different trenchless technologies with the aim of executing the project without the need for civil works.

The work mainly comprised:

- Rehabilitation of the main collectors connecting the city under the ADIF underpasses
- Renovation of strategic streets in the center of Córdoba, which, due to their size and characteristics, would be very complex to rehabilitate using open-cut methods.

Modernization of the irrigation facilities of the Irrigation Community of Nacimiento de Coín, “Llanos a Juntillas”

Facility fully equipped with remote management.

The following has been carried out:

- Pressure collector consisting of different branches to carry irrigation water from the source to the different plots.
- Collector of approximately 180 km in pipes of different diameters, including PVC from 250 to 500 mm and PE from 32 mm to 315 mm.
- Primary, secondary, and tertiary hydraulic network, plot connections, and meter cabinets.
- Water intake at the source, equipped with two vertical pumps and electrical supply and control cabinets.
- Medium-voltage network and transformer station.

New Outpatient Building for the Maternal and Child Health Department. Reina Sofía University Hospital, Córdoba

Carried out for the Regional Ministry of Health and families of the Andalusian Health Service of the Regional Government of Andalusia

In 2024, the Reina Sofía University Hospital in Córdoba awarded the joint venture ACSA Obras e Infraestructuras-Magtel the contract to construct the new Maternal and Child Outpatient Building, designed to improve outpatient pediatric and gynecological care.

The future building will have approximately 10,000 m2 and the work includes:

- Construction of the structures
- Enclosures
- Flooring
- Roofing, finishes, thermal envelope and carpentry
- Plumbing, air conditioning, centralized technical management, electricity, photovoltaic, communications, security and fire protection, mechanical transport, and medical gases.

Two of the most notable aspects are the construction of the new emergency road connecting the roundabout on Avenida San Alberto Magno with Menéndez Pidal, up to the junction with the current emergency road.

Another important aspect that has been completed is the new sanitation network, which connects the existing facilities of the Reina Sofía University Hospital and those of the new building and development currently under construction to the existing collector on Menéndez Pidal Avenue, all by means of a jacking solution that crosses the roundabout between San Alberto Magno and Menéndez Pidal. This action has avoided traffic disruptions and delays due to archaeological supervision.

El Ejido Nordeste Health Center (Almería)

Executed by the Magtel & Lirola joint venture for the Regional Ministry of Health and Consumer Affairs of the Regional Government of Andalusia

The future El Ejido Nordeste Health Center will be located in a strategic area of the municipality, on a 3,075-square-meter plot of land donated by the City Council.

The healthcare building will be the third in the town. The center will have more than 2,000 square meters distributed over two floors, in addition to a plot reserved for surface parking spaces.

Its objective is to improve healthcare for a significant part of the population and alleviate the healthcare burden on other health centers in El Ejido.

The work carried out so far has consisted of:

- Earthworks
- Building foundations
- Structure of two of the three blocks
- Underground sanitation for the building

Bujalance Health Center (Córdoba)

Executed by the Magtel & Lirola joint venture for the Regional Ministry of Health and Consumer Affairs of the Regional Government of Andalusia

The building, with a total constructed area of 30,770.30 m^2, is designed around a central, longitudinal common space which, like an atrium, distributes different areas on the ground floor and first floor.

The new facilities will have a healthcare area that includes immediate care, an adult clinic, a pediatric clinic, and an auxiliary services area. It will also have a critical care unit and an emergency unit, as well as an area for minor surgery, a dental office, health education, rehabilitation and physical therapy, and radiology. In addition to this, there will be other spaces, such as a citizen service area, a staff area, and other facilities.

The work carried out has consisted of:

- Demolition of the existing building
- Earthworks
- Excavation of the building's basement, laying the foundations and party walls
- Construction of two floors of the structure

In addition, part of the filling of the walls and the parking lot esplanade has been completed.

Renovation of the Casa de la Solidaridad (Córdoba)

Renovation carried out for the Municipal Urban Planning Department

In 2024, the adaptation and renovation work on the upper floor of the southeast wing of the former Lepanto barracks for the “Casa de Solidaridad” was completed. The work carried out consisted of:

- Refurbishment of the interior walls
- Repair of facades
- Redistribution and new construction of interior partitions for the distribution of rooms
- Work on the emergency staircase
- Toilet facilities
- Ventilation system
- Electrical and air conditioning installation

Construction of the “Góngora” residential complex in the Seville municipality of Mairena del Aljarafe

Construction of a 20-unit social housing building for the Vympica Foundation

The property has been built on a 572 m² plot and includes 21 storage rooms, 25 parking spaces, and 2 commercial premises.

The 20 three- and four-bedroom homes are distributed over six floors. The floors below ground level are used for parking and storage rooms for the homes, while the ground floor is occupied by two commercial premises and the common areas providing access to the homes. One of the homes, located on the first floor, has been adapted for people with functional diversity.

In line with the company's commitment to environmental sustainability, the building has been constructed in accordance with energy efficiency criteria and innovative systems have been implemented, such as natural ventilation in the garage through the construction of vents. The project is located in one of Seville's fastest-growing and most rapidly expanding areas, acting as a “commuter town” for thousands of citizens. The area is located 10 km from the city of Seville and has all the necessary educational, health, communication, and public transport services.

Improvement and rehabilitation of the Villa del Río Bridge, Córdoba

Actions for strategic and heritage infrastructure in the province of Córdoba

Project carried out for the Regional Ministry of Development, Infrastructure, and Land Planning of the Regional Government of Andalusia

We carried out this project in a joint venture with Hierros Fuente Palmera.

During 2024, the following work was carried out:

- Complete rehabilitation of the metal spans
- Reinforcement of the upper and lower parts of the arches
- Supply and installation of the upper transverse bracing, deck, and arch starts

As for the masonry spans, sleeve tube injections were carried out on the boreholes, and the formation of the deck on top of them was begun.

The bridge consists of two clearly diff rentiated parts, one consisting of three arched metal lattice spans and the other consisting of five masonry vaults.

It was built in the early 20th century, around 1906, and later partially rebuilt in 1950/51, after the northern span was blown up during the Civil War.

To maintain the historical aesthetics of the bridge, the exterior metal arches have been preserved.