

Professional experience & Technical Consulting Summary

DESIGN AND TECHNICAL DIRECTION OF LOCAL POLICE STATION BUILDING. ROTA, CÁDIZ, SPAIN (2006)

Synopsis: Built-up area: 3,546.01 m². Urbanization, offices, underground parking, vehicle pound, weapons room, shooting gallery, gymnasium, reinforced concrete structure, LV & HV electrical, transformation center, HVAC, fire protection, telecommunications, plumbing and sanitation.

Client: Excmo. Ayuntamiento de Rota



Professional experience & Technical Consulting Summary

DESIGN OF OFFICE AND WAREHOUSE BUILDING AT NAVAL STATION ROTA, SPAIN (2005).

Synopsis: Built-up area: 4,415 m². Urbanization, offices, warehouses, surface parking lots, metal structure, LV electrical, HVAC, fire protection, telecommunications, plumbing and sanitation.

Client: Ministerio de Defensa de España.



Professional experience & Technical Consulting Summary

DESIGN OF ADAPTATION AND REHABILITATION OF SURROUND AND ROOF OF HANGAR TALLER DE FUSELAJES (BUILT 2045) FLOTILLA DE AERONAVES EN LA BASE NAVAL DE ROTA (2016).

Built-up area : 2.676,83 m².

Final Client: Ministerio de Defensa de España

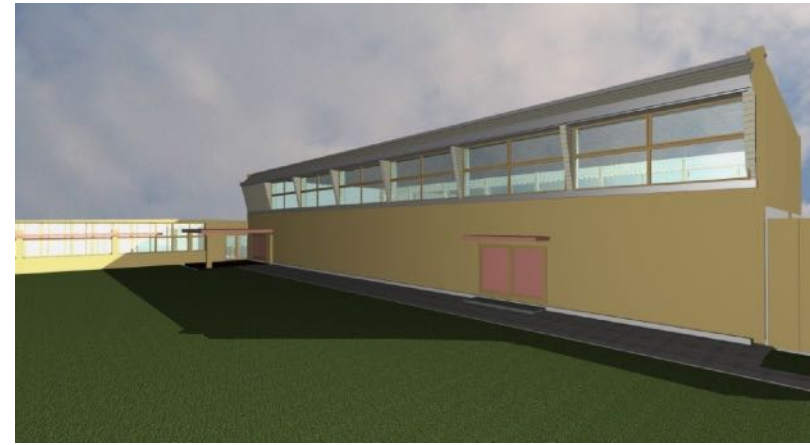


Professional experience & Technical Consulting Summary

DESIGN OF REPAIR GYMNASIUM BUILDING AT MORON DE LA FRONTERA AIR BASE, SPAIN (2016-2017).

Scope: structures, architectural, LV electrical facilities, fire protection, plumbing, HVAC, civil, landscaping and energy efficiency.

Client: U.S. Department of Defense

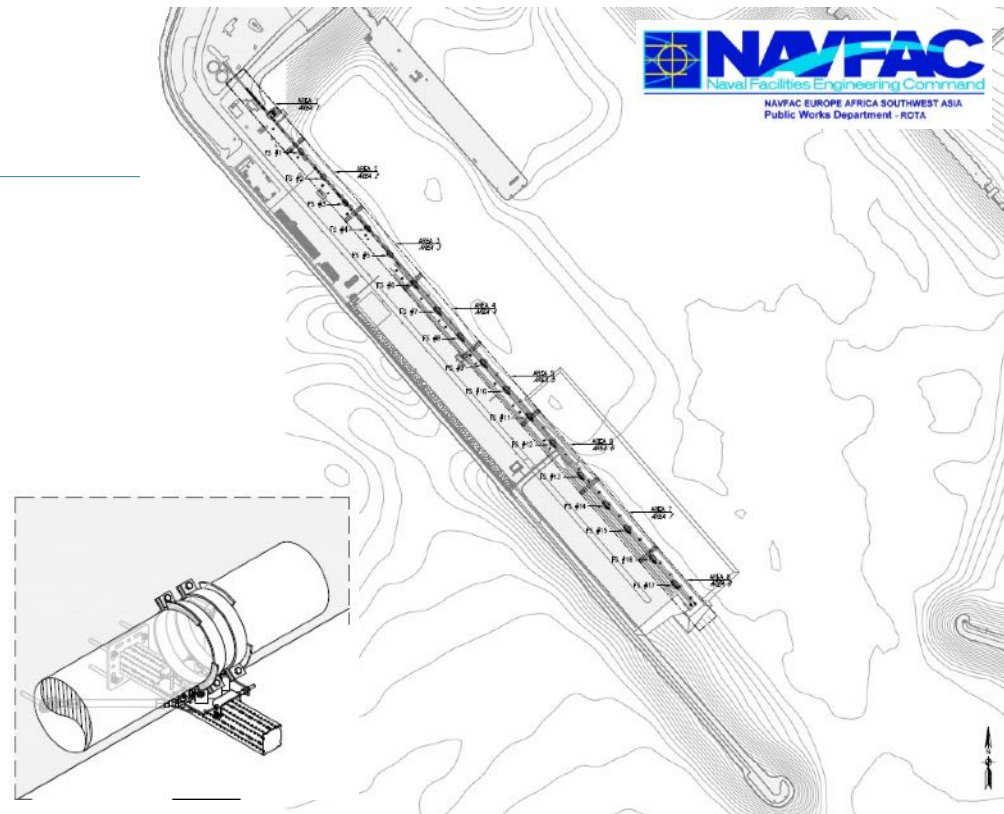
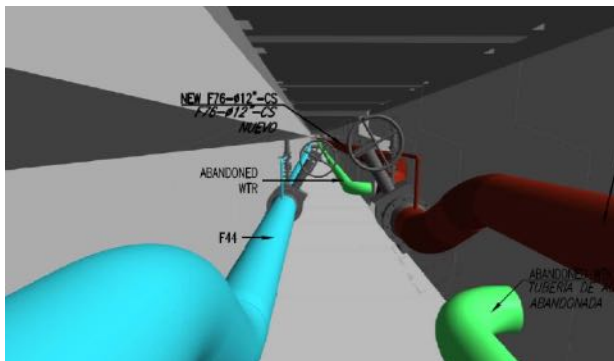
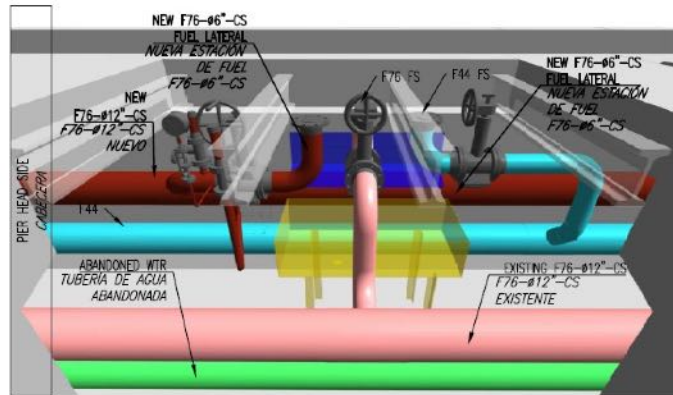


Professional experience & Technical Consulting Summary

DESIGN OF REPLACE F76 PIPELINE AND REMOVE BALLAST PIPELINE AT PIER 1, ROTA NAVAL STATION, SPAIN. (2017-2018)

Synopsis: The objective for this project is to improve the fuel supply capability at Pier 1 in support of Forward Deployed Naval Forces Defense at Rota, Spain. Renovation of 12" diameter F 76 pipeline including fueling station laterals, valves, pipe fittings, expansion joints and pipe supports. Project includes civil, mechanical, cathodic protection, stress and flexibility analysis, supports calculation, seismic analysis, etc... Standard B31.3 Process

Client: U.S. Department of Defense

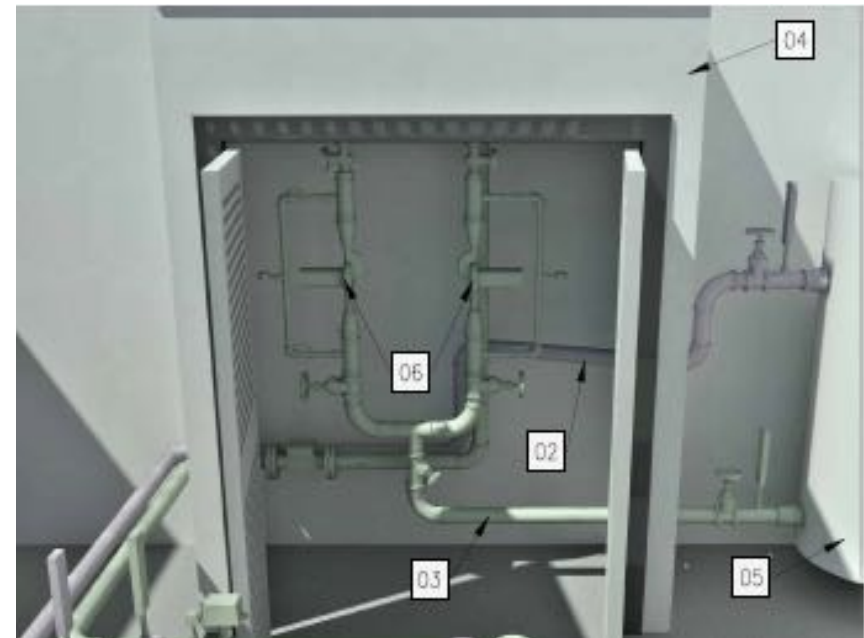
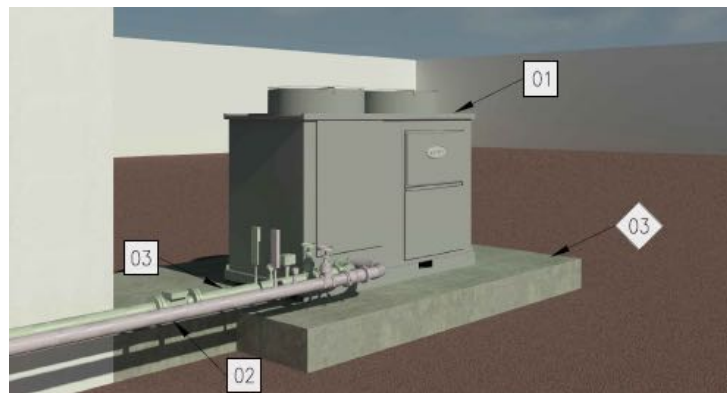
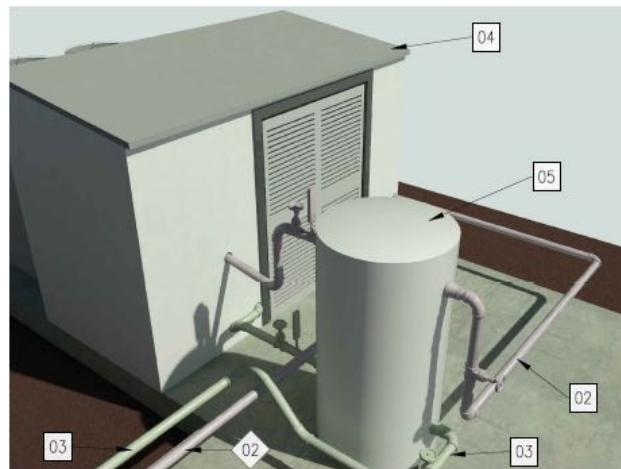


Professional experience & Technical Consulting Summary

DESIGN OF ENERGY CONSERVATION MEASURE ECM-02: CHILLERS RETRIFIT & REPLACEMENT (ENERGY SAVINGS PERFORMANCE CONTRACT).
ROTA NAVAL STATION, SPAIN. (2018-2019)

Synopsis: The objective for this project is to reduce energy consumption and process improvements of HVAC system of 9 buildings at NAVSTA Rota. Project includes mechanical, electrical, structural and antiterrorism disciplines.

Final Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

DESIGN OF PV PLANT, ROTA, SPAIN. (2017-2018)

Synopsis: Design of six large capacity in-line solar pumping installations. It is an innovative project of pumping of great power with the electric power coming from totally autonomous photovoltaic groups and without accumulation of energy. The photovoltaic groups have a capacity of 387kVA.

Client: Comunidad de Regantes Costa Noroeste de Cádiz

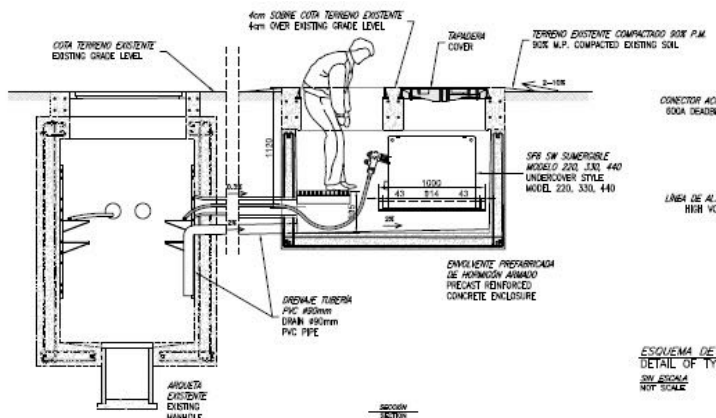


Professional experience & Technical Consulting Summary

DESIGN OF REPAIR & UPGRADE HIGH VOLTAGE SYSTEM OF RUNWAY AT MORON DE LA FRONTERA AIR BASE, SPAIN. (2016-2017)

Scope: 10.000 m of underground high voltage line, including high voltage switchgears and transformers, civil work, LV electrical.

Final Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

DESIGN OF ENERGY CONSERVATION MEASURE ECM-03: UPGRADE / REPLACEMENT OF EXISTING ENERGY MANAGEMENT CONTROL SYSTEMS (ENERGY SAVINGS PERFORMANCE CONTRACT). ROTA NAVAL STATION, SPAIN. (2018-2019)

Synopsis: The objective for this project is to reduce energy consumption and process improvements of HVAC system of 27 buildings at NAVSTA Rota. The project includes replacement of the existing manually operated controls platform at twenty-seven (27) buildings with new campus wide Building Automation System (BAS). ECM includes the installation, upgrade, integration and migration of controls into new centralized Energy Management Control System (EMCS) and the implementation of energy saving strategies to the HVAC systems.

Final Client: U.S. Department of Defense

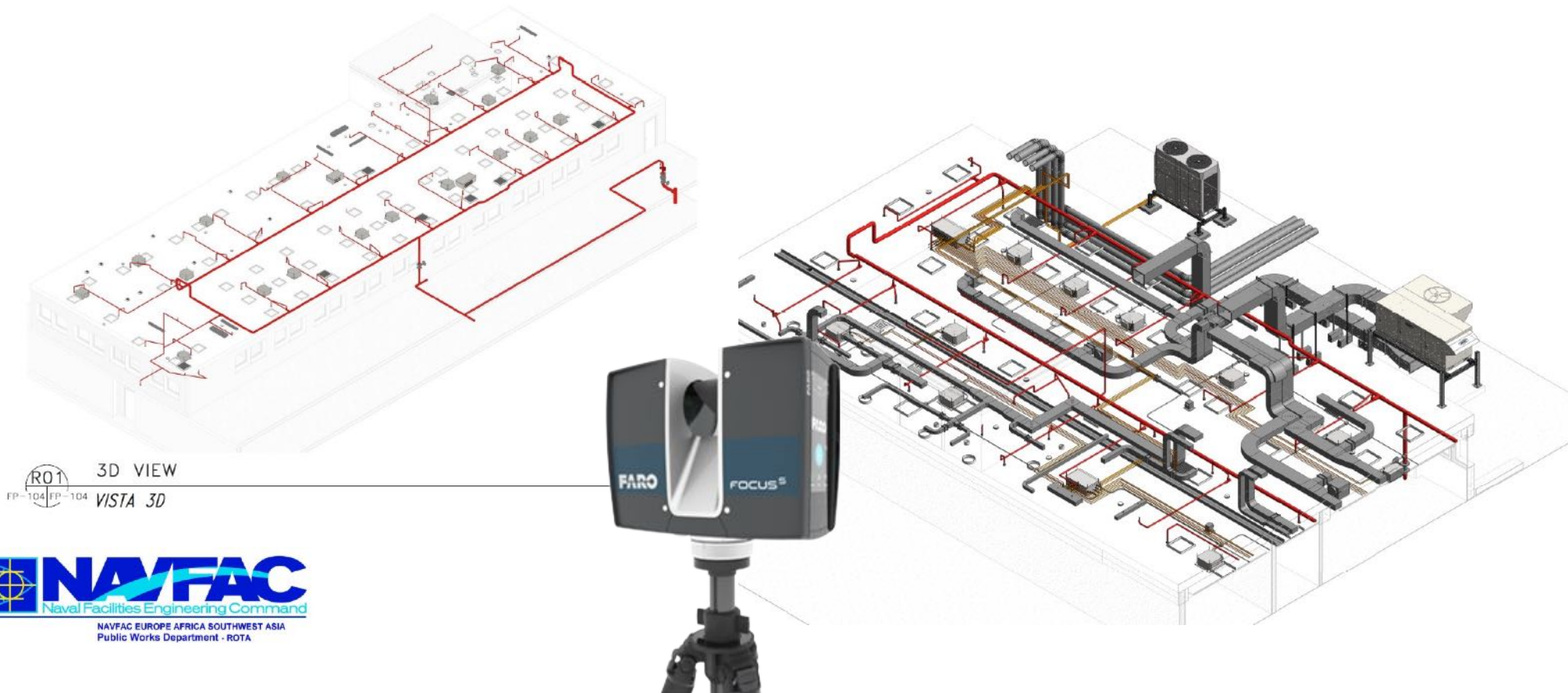


Professional experience & Technical Consulting Summary

FIRE SUPPRESSION SYSTEM DESIGN AND HVAC SHOP DRAWINGS FOR PROJECT: RENOVATE UPPER FLOOR SOUTH WING BLDG. #5, AT NAVAL STATION IN ROTA (2018).

Synopsis: The project includes the complete renovation of the fire protection and HVAC systems of the building, including the control system. In the development of the project, the "scan to BIM" technology was used, in which the BIM model was developed based on a 3D laser scan.

Final Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

DESIGN OF FOOD COURT BLDG.#2 AIR TERMINAL, ROTA NAVAL STATION, SPAIN. (2017-2018)

Synopsis: The objective for this project is to adapt a part of the Building #2 (Air terminal) with a built-up area of 443 m2 to develop and install a food court composed of Dunkin Coffee, Healthy Express and Nathan's & Arthur Treachers's. Each of them will be equipped with the necessary machines, equipment and facilities to develop the activity.

Final Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

DESIGN OF FIRE PROTECTION SYSTEM AT POWER PLANT BUILDING (Bldg#64), ROTA NAVAL STATION, SPAIN. (2016-2017)

Synopsis: It is a building with a built-up area of 2,566.89 m², destined to the management and conversion of the electric system of the Base. The project has included the disciplines of civil engineering, calculation of structures and supports, fire suppression system, fire alarm system, seismic analysis, low voltage electrical installations and water supply.

Final Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

DESIGN OF NACIONAL POLICE STATION FACILITIES. ROTA, SPAIN (2009).

Synopsis: LV and HV electrical, transformer center, sanitation, water supply, lighting, solar hot water, HVAC, fire protection, emergency electrical supply (generator + UPS), telecommunication.

Client: Ministry of the Interior of Spain

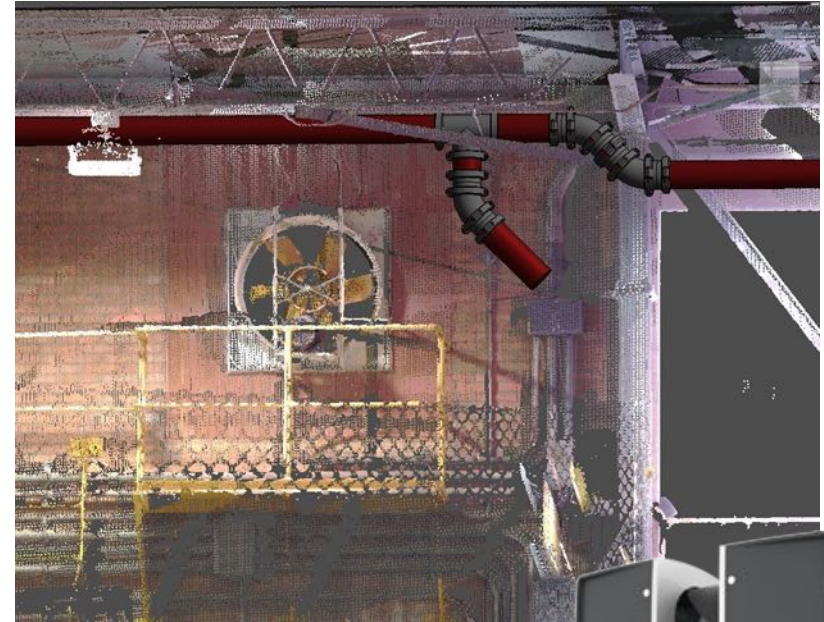


Professional experience & Technical Consulting Summary

3D LASER SCANNER SERVICES: 3D laser scanning services, BIM modeling, rental.

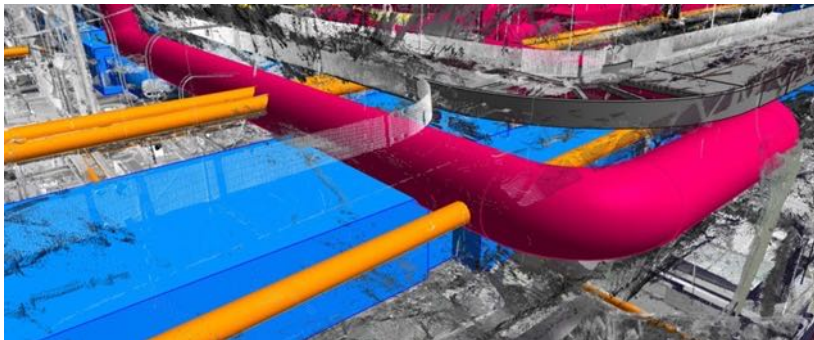
Application of 3D laser scanning technology:

- Design using BIM tools.
- Industry.
- Construction control.
- Topography.
- Civil works.
- Dimensional control.
- Volume calculation.
- Reverse engineering.
- Shipbuilding.
- Aeronautics.
- Investigation of interferences in design processes.
- Criminalistics.
- Cultural heritage.



3D LASER SCANNER:

It allows any three-dimensional element to be digitized quickly, safely, accurately and reliably.

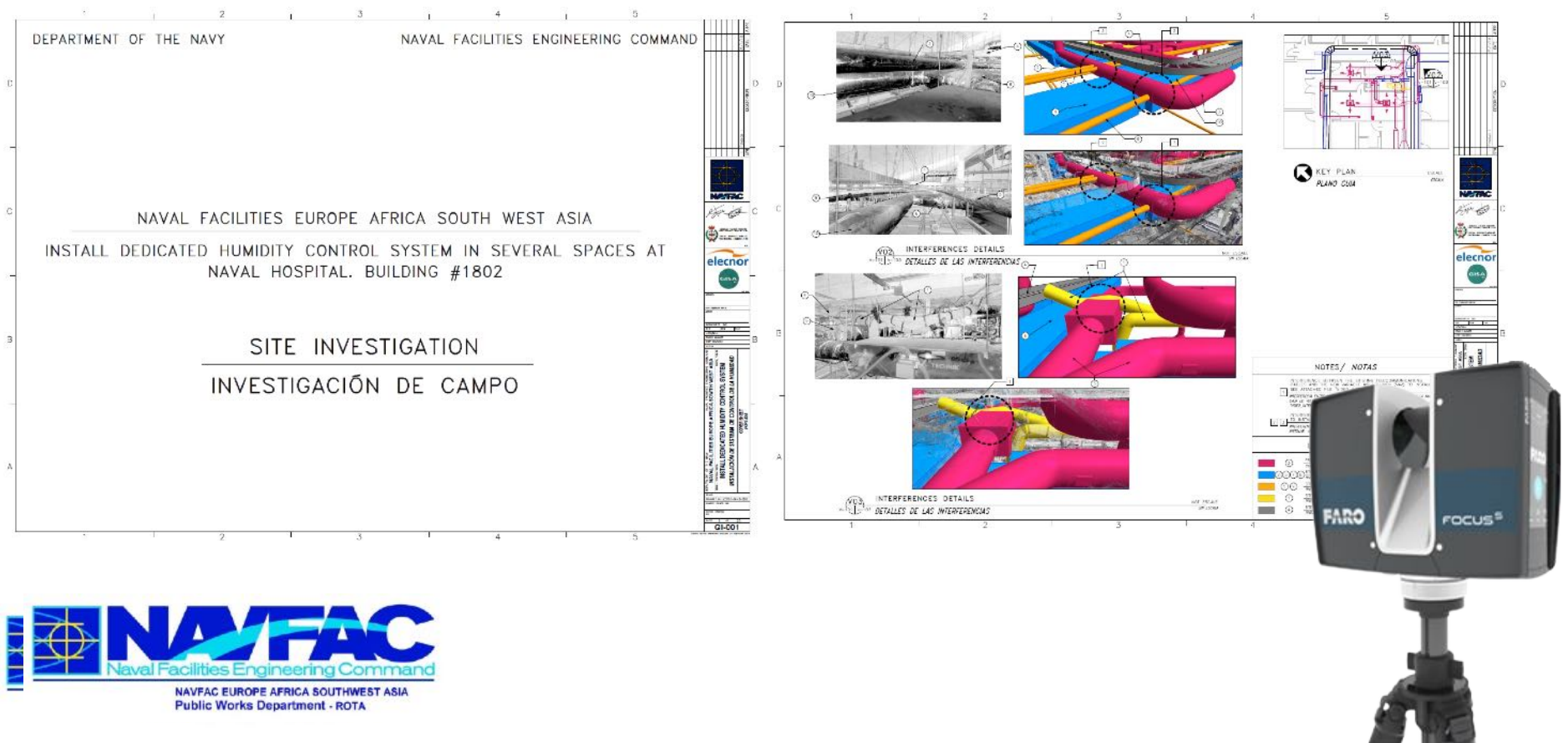


Professional experience & Technical Consulting Summary

PREVIOUS SITE INVESTIGATION TO INSTALL DEDICATED HUMIDITY CONTROL SYSTEM AT NAVAL STATION HOSPITAL IN ROTA (2017-2018).

Synopsis: The existing condition investigation on site have been developed with a 3D Scanner and the analysis between the existing facilities and the new installations to be executed, has been developed with BIM technology.

Final Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

HVAC SHOP DRAWINGS FOR PROJECTS: INSTALL DEDICATED HUMIDITY CONTROL SYSTEM IN SEVERAL SPACES AT NAVAL HOSPITAL AND UPGRADE CHILLED WATER SYSTEM AT NAVAL HOSPITAL, AT NAVAL STATION IN ROTA (2018).

Synopsis: The project includes the complete renovation of the HVAC and humidity systems, including the control system of the building. In the development of the project, the "scan to BIM" technology was used, in which the BIM model was developed based on a 3D laser scan.

Final Client: U.S. Department of Defense

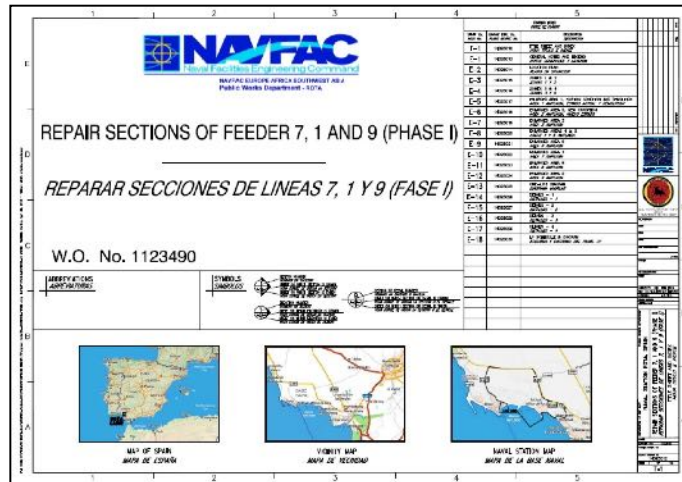


Professional experience & Technical Consulting Summary

TECHNICAL DIRECTION AND QUALITY CONTROL MANAGEMENT OF REPAIR SECTIONS OF FEEDERS 7, 1 AND 9 (PHASE I) NAVAL STATION ROTA, SPAIN. (2014-2015).

Scope: 10.000 m of underground high voltage line, including high voltage switchgears and transformers, civil work, LV electrical.

Final Client: U.S. Department of Defense

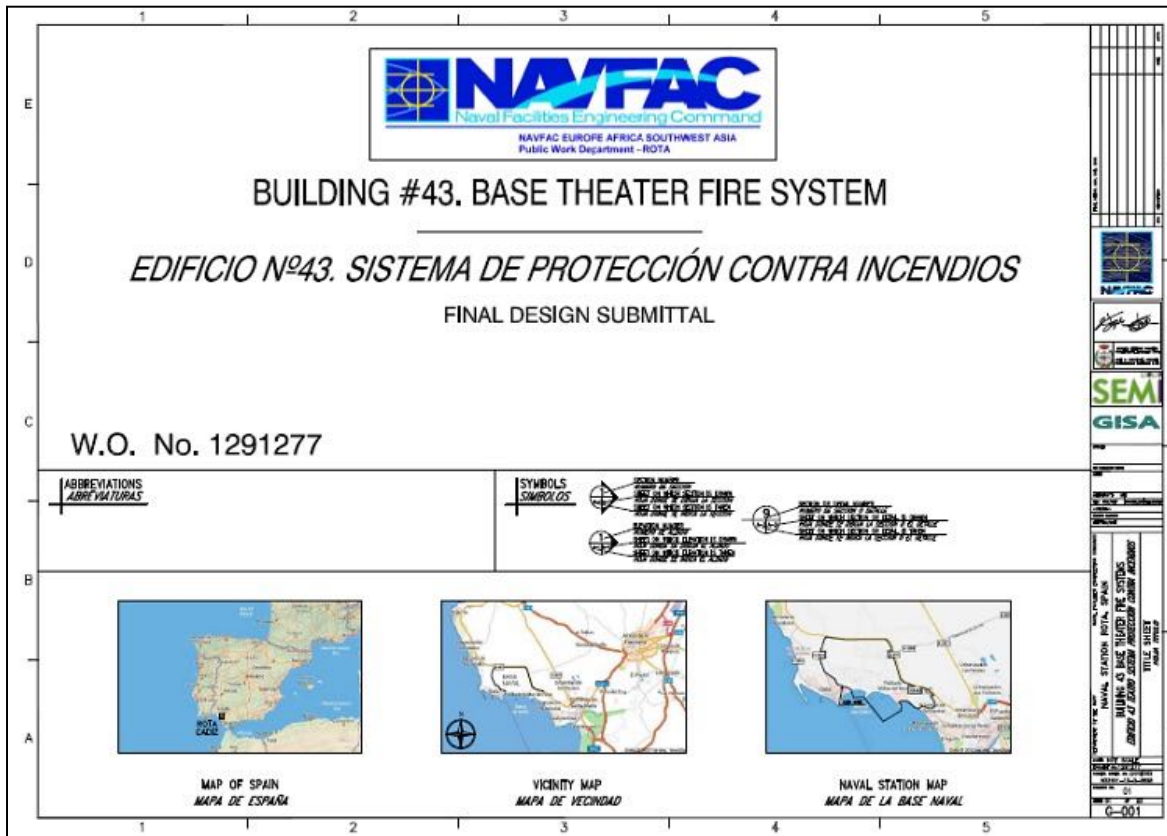


Professional experience & Technical Consulting Summary

DESIGN OF BUILDING #43 BASE THEATER FIRE PROTECTION SYSTEM. NAVAL STATION ROTA, SPAIN (2014-2015).

Scope: Fire protection system: Fire sprinkler system.

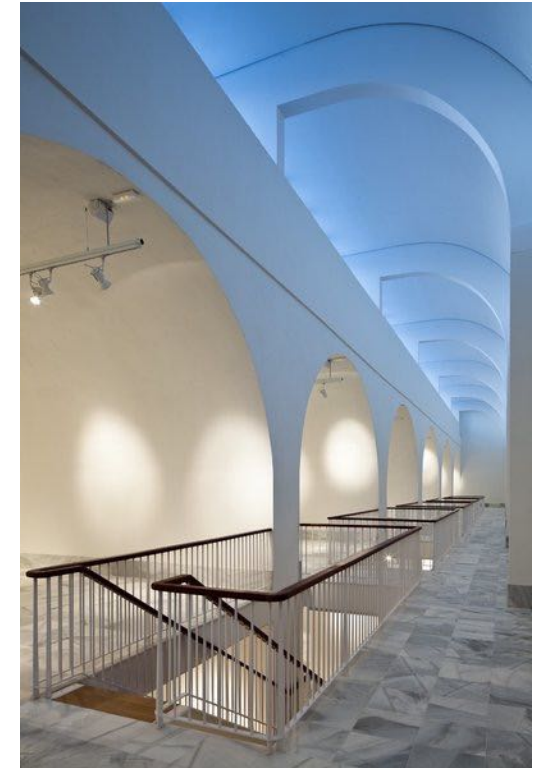
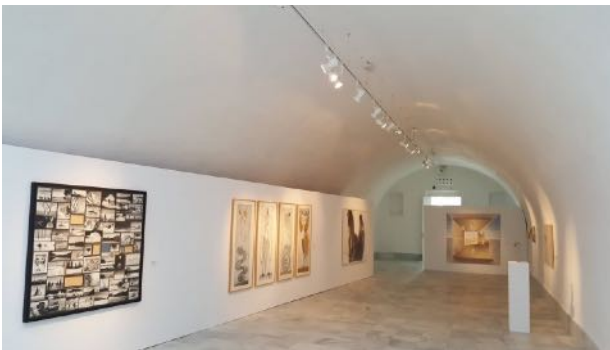
Final Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

FACILITIES DESIGN AND TECHNICAL DIRECTION OF CENTRO DE ARTE CONTEMPORÁNEO DE CÁDIZ (2010).

Client: Excmo. Ayuntamiento de Cádiz



Professional experience & Technical Consulting Summary

DESIGN OF THE FIRE PROTECTION SYSTEM FOR MK-540 MISSILES TEST BUILDING, A CORUÑA, SPAIN. (2014).
Client: Ministerio de Defensa de España

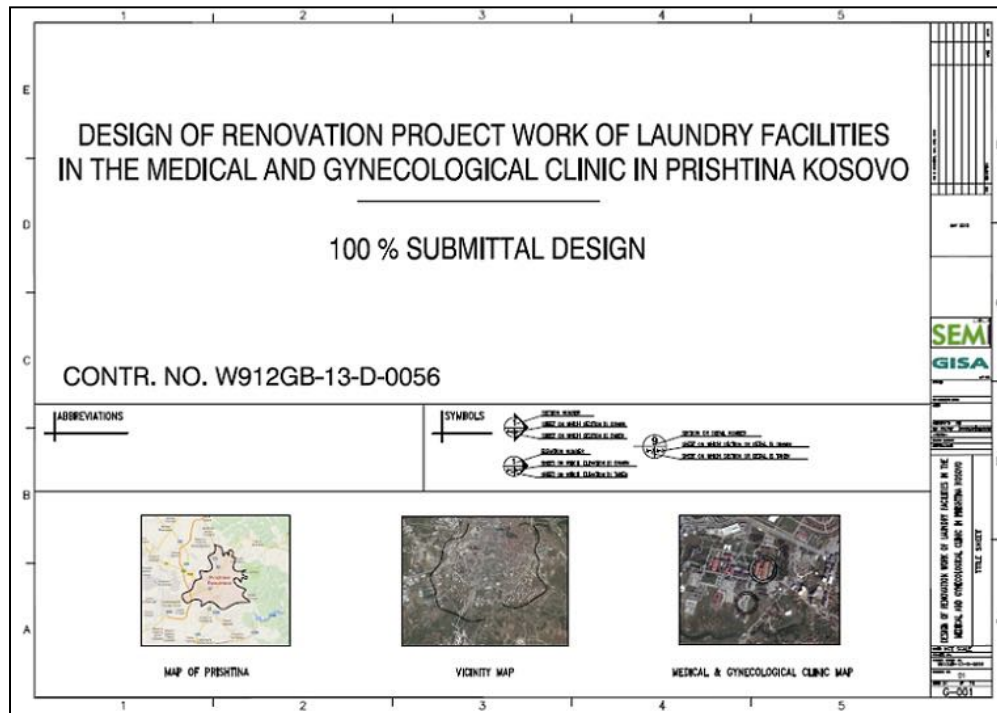


Professional experience & Technical Consulting Summary

DESIGN OF RENOVATION OF LAUNDRY FACILITIES IN THE MEDICAL AND GYNECOLOGICAL CLINIC IN PRISHTINA, KOSOVO. (2015).

Scope: architectural, fire protection, compressed air, steam, LV electrical, laundry equipment.

Final Client: U.S. Department of Defense

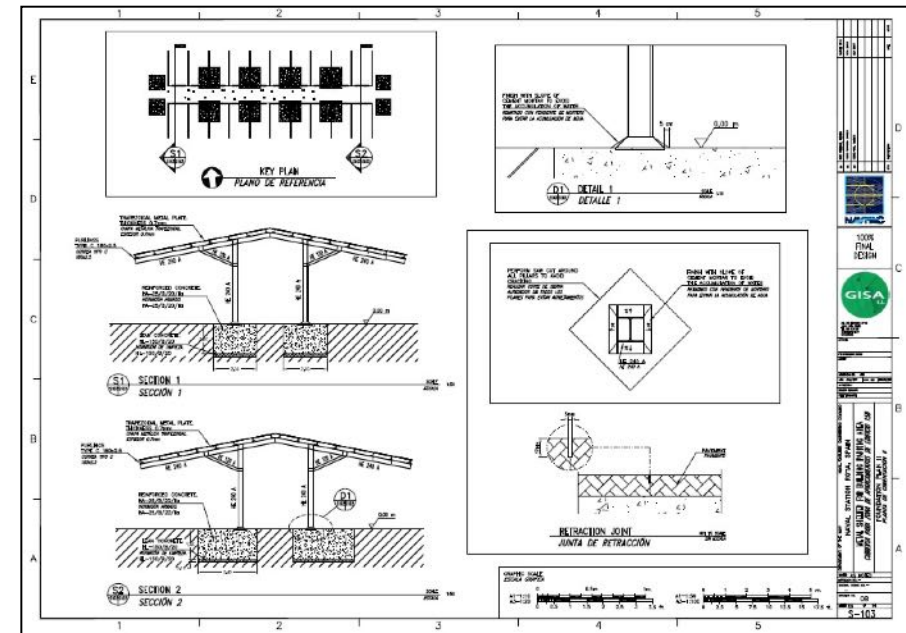
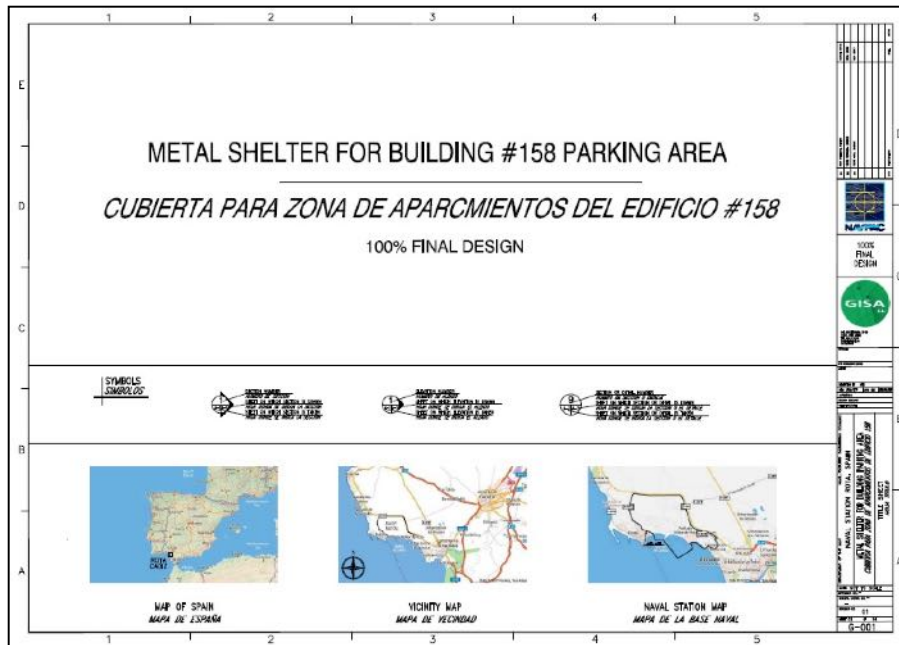


Professional experience & Technical Consulting Summary

METAL SHELTER FOR BUILDING #158, NAVAL STATION ROTA, SPAIN (2016-2017).

Synopsis: Built-up area: 310 m2. Structures, foundations, civil.

Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

DESIGN AND TECHNICAL DIRECTION OF EMERGENCY TRAINING CENTER NAVAL, OFF-SHORE AND EOLIC INDUSTRY, IN EL PUERTO DE SANTA MARIA, CÁDIZ., SPAIN. (2014-2015). Built-up area: 1,335 m². Synopsis: Urbanization, deep foundation with 22 m piles, fire protection training center for confined and open spaces, , LV electrical, fire protection, telecommunications, plumbing, sanitation, filtering and purification. Compliance with the international standards OPITO and GWO.
Client: Indra Sistemas, S.A.



Professional experience & Technical Consulting Summary

DESIGN AND TECHNICAL DIRECTION OF PROJECT OF MARINE CULTURE RESEARCH BUILDING IN INSTITUTO DE CIENCIAS MARINAS, CSIC (CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS. GOBIERNO DE ESPAÑA) IN PUERTO REAL CÁDIZ., SPAIN. (2008).

Client: Consejo Superior de Investigaciones Científicas. Gobierno de España.

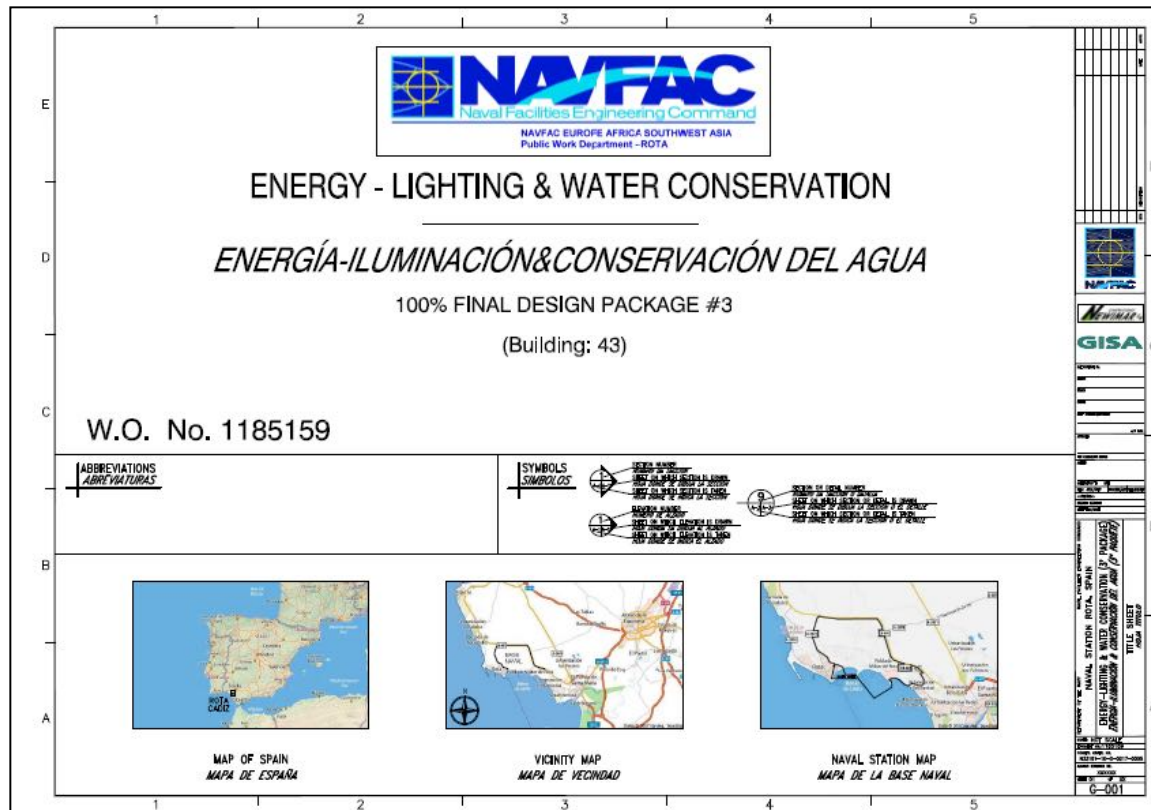


Professional experience & Technical Consulting Summary

DESIGN OF ENERGY - LIGHTING & WATER CONSERVATION AT NAVAL STATION ROTA, SPAIN (2016-2017)

Scope: 34 buildings.

Final Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

DESIGN OF NACIONAL POLICE STATION FACILITIES. SANLUCAR DE BARRAMEDA CÁDIZ, SPAIN (2009).

Synopsis: LV and HV electrical, transformer center, sanitation, water supply, lighting, solar hot water, HVAC, fire protection, emergency electrical supply (generator + UPS), telecommunication.

Client: Ministry of the Interior of Spain



Professional experience & Technical Consulting Summary

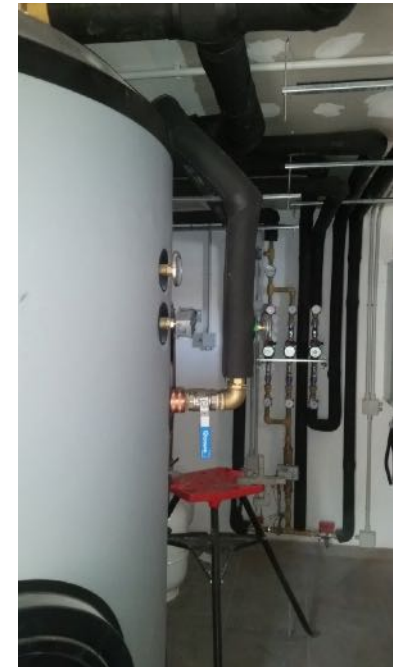
SHOP DRAWINGS FOR FUEL FACILITIES AT MORON STATION AND ROTA NAVAL STATION, SPAIN. (2016).
Final Client: U.S. Department of Defense



Professional experience & Technical Consulting Summary

DESIGN AND TECHNICAL DIRECTION AND MANAGEMENT SERVICES OF RESIDENTIAL BUILDING (27 DWELLINGS). ROTA, CÁDIZ, SPAIN (2016-2017).

Urbanization, underground parking, electrical, solar hot water, combustibles gases, air conditioning and ventilation , fire protection facilities, plumbing, sanitation and telecommunications facilities.



Professional experience & Technical Consulting Summary

DESIGN AND TECHNICAL DIRECTION AND MANAGEMENT SERVICES OF RESIDENTIAL BUILDING (22 DWELLINGS), COMMERCIAL PREMISES AND GARAGES, ROTA CÁDIZ. (2012). Urbanization, underground parking, electrical, solar hot water, air conditioning and ventilation, fire protection facilities, plumbing, sanitation and telecommunications facilities.



Professional experience & Technical Consulting Summary

DESIGNER AND TECHNICAL DIRECTION AND MANAGEMENT SERVICES OF URBANIZACIÓN EL RETIRO (15 SINGLE-FAMILY DWELLINGS), ROTA, CÁDIZ. (2014).

Urbanization, irrigation system, swimming pool, electrical, plumbing, sanitation, HVAC and telecommunications facilities.



Professional experience & Technical Consulting Summary

DESIGN AND TECHNICAL DIRECTION OF THE HVAC SYSTEM OF AIRBUS PUERTO REAL FACILITIES, CÁDIZ, SPAIN. (2015).



Professional experience & Technical Consulting Summary

DESIGN AND TECHNICAL DIRECTION OF FACILITIES OF SPORT CENTER IN RECINTO FERIAL, ROTA, CÁDIZ, SPAIN(2012).

Built-up area : 10,710 m2.

Client: Excmo. Ayuntamiento de Rota



Professional experience & Technical Consulting Summary

DESIGN OF SPORT CENTER FACILITIES. LA ROSALEDA, SEVILLA. SPAIN. (2011).

