

# **JOSE ROMERO, P.E.**

## **Consulting Mechanical Engineer**

Cordoba Street #8 Paseo de la Alhambra, Carolina P.R. 00987

Mobile – 787-485-1362, e-mail – jromero950@onelinkpr.net

### **MISSION STATEMENT:**

Jose A Romero, P.E. Consulting Mechanical Engineer firm has been providing quality mechanical engineering services since 2006. The firm has developed and solid reputation in the field during the years of operation. This reputation has been earned as a result of the firm's innovative design methods for each and every project. Our clients recognize that our past experience is a sign of future success for their projects. Our experience and expertise in mechanical design has been recognized by architects, owners, developers throughout Puerto Rico. As our company has had the opportunity to develop an extensive portfolio of jobs in a variety of building types including, hotels, corporate, commercial, educational, healthcare and many others.

As part of our design philosophy the firm provides energy conscious designs for the different types of systems in buildings and implements LEED standards.

The firm is a full service mechanical consulting mechanical engineering firm, meaning that the firm provides a total mechanical systems approach. We promote a coordinated effort with speciality in air conditioning, ventilation, plumbing, piping, refrigeration, fire protection and energy conservation.

### **SUSTAINABLE DESIGNS:**

Sustainable, or green building design, is a core value of our company. Our commitment to the environment is constant as implement" earth-friendly strategies into our projects.

Sustainable choices create positive outcomes for owners in many ways – reduce operating cost; enhance asset value; improve productivity; maintain better occupant health; reduce absenteeism; reduce liability; increase profits.

We provide support to clients to help them make LEED standard practice. Services include: green and sustainable mechanical consulting; LEED consulting and LEED documentation service; mechanical calculations, templates, etc.

### **OUR STAFF:**

#### **ENGINEERING:**

José A Romero, P.E. Lic. 15907

- Founder and owner of José A Romero, P.E., in charge of Administration, Production and Design Coordination of the firm.

#### **DESIGNERS:**

Mariely Rodriguez – Draftsman/Designer

#### **SERVICES:**

##### **Mechanical Design Services:**

- Ventilating and Air Conditioning
- Building HVAC
- Indoor Air Quality
- Building Automation
- Chiller Plants
- Sustainable Building Design (LEED)

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### Energy Simulation:

- Computer Building Modeling
- Chilled Water and Heating Water Modeling
- Life Cycle Cost Analysis
- Energy Analysis

### Fire Protection Design Services:

- Automatic Sprinklers and Standpipe System
- Pre-Action Systems
- Clean Agent Systems

### Plumbing Design Services:

- Potable Water Pumping and Distribution Systems
- Sanitary Sewers Systems
- Storms Drain Systems
- Fuel Oil and Gas Systems

## EDUCATION

Bachelors in Mechanical Engineering  
Polytechnic University of Puerto Rico,  
Hato Rey, Puerto Rico, 1995.  
Magna Cum Laude

## REGISTRATION

Puerto Rico, P.E License #15907

## PROFESSIONAL ORGANIZATIONS

Member of Engineers and Surveyor College of  
Puerto Rico.

ASHRAE, ASPE

## PROFESSIONAL PROFILE

From 2006 – present - **JOSE ROMERO, PE**

Responsible for designs of HVAC, Plumbing,  
Compressed Air Systems, Fire Protection  
Systems, Mechanical Estimates, Change Order  
Evaluations, Contract Negotiations and  
Mechanical Construction Management.

From 2001 – 2009 - **Senior Engineer at RAY Engineers** my responsibilities include project coordination with architects and other engineering disciplines. Supervision of personnel including draftsmen's and engineers. Design of HVAC, piping, Fire Protection and plumbing systems for commercial and industrial projects.

From 97 - 2001 – **Engineer at Jorge Ledón Webster, PE** my responsibilities include project coordination with architects and other engineering disciplines. Design of HVAC, piping, Fire Protection and plumbing systems for commercial and industrial projects.

From 95 – 97 - **Intaco** in charge of sales and project coordination of scaffolding and concrete shoring & forming systems at Pharmaceutics, Thermoelectric Plants and Petroleum Refineries; design of scaffolding systems; application of federal OSHA regulations in all scaffoldings designs.

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### MOST RELEVANT PROJECTS:

#### PIERS/SHIP TERMINAL FACILITIES

**Panamerican Terminal II Cruise Ship Terminal**, San Juan. HVAC (260ton), plumbing and fire protection systems design. The project consist of various package and split dx systems located inside and outside the structure. The use of duct sox system was implemented in the open space areas in this project due to budget reasons. This was a Fast-track Design-Build project.

#### INFRASTRUCTURE

**Rio Grande Valley** – Site work for 361 residential units and community facilities Rio Grande, PR.

**Las Casitas – Hotel El Conquistador Phase II.** Site work for chilled water piping for 72 Villas for this phase of project located at the El Conquistador Resort.

#### RETAIL / SHOPPING CENTERS

**Plaza las Americas** : HVAC and piping design of main corridors and stores of the mall including south mall, north mall and west mall (2.1million sf expansion). The design phase include the selection of air handlers for all the stores and main corridors in the new expansion , ventilation (exhaust and fresh air) and chilled water design to all the stores in order to leave all the necessary provision to the tenants.

**Mega Pets** – HVAC design and piping design for the store. . Plaza Las Americas.

**Supermercados Amigo** – Image enhancement of existing stores throughout Puerto Rico. This includes HVAC systems, Fire Protection and plumbing design.

**Tricon – KFC/ Taco Bells and Pizza Huts** - HVAC and Plumbing design services for new stores and image enhancement of existing stores throughout Puerto Rico.

**Outback** – Los Paseos, Plaza del Sol - HVAC and plumbing design for restaurant and kitchen areas.

**Mc Donald's** – HVAC and plumbing design for many stores in various location throughout Puerto Rico.

**123 Stores** - HVAC and plumbing design for many stores in various location throughout Puerto Rico.

**Joyerias Cache** - HVAC design for the store. Plaza Rio Hondo, Bayamon.

**Reinhold**- HVAC, Plumbing, Sprinkler and piping design. Plaza Las Americas.

**La Gran Via** - HVAC, Plumbing, Sprinkler and piping design. Plaza Las Americas.

**Sony Style** - HVAC, Plumbing, Sprinkler and piping design. Plaza Las Americas.

**Joyeria Italics** - HVAC, Plumbing and Sprinkler design. San Patricio Plaza.

**Swarovski** - HVAC, Plumbing, Sprinkler and piping design. Plaza Las Americas.

#### OFFICES / COMMERCIAL BUILDINGS

#### Montehiedra Office Centre (Reliable Bldg), Cupey, PR –

Design of chilled water, VAV air conditioning system (800ton capacity), chilled water piping (reverse return) emergency smoke control exhaust system and general ventilation for a high rise building.

**Dupont (Manati), PR** Mechanical room expansion. Existing chilled water system analysis was accomplished to determine the need for additional capacity to the existing system and future expansion. A 1100 ton chiller was installed to meet the load requirements of the existing and future system, provisions of a secondary pump system were made for the future expansion.

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**Multiusos Building AEE** – Design of HVAC, chilled water piping systems, plumbing and fire protection for new building construction. The system consist of two air cooled chillers (320 tons) and a VAV system design for office areas.

**Lucchetti Building AEE** – Design of HVAC system (450ton) and chilled water piping for the existing building. This building includes the implementation of a ice storage system, VAV system design and a new mechanical room design in a new structure. Project includes supervision (weekly meetings) and inspection of the systems during construction.

**US Census Bureau ELCO**- Design of HVAC, plumbing and fire protection for existing office building construction. The system consist of two dx units (20 tons) split systems for all the office areas.

### POWER

**Covadonga GIS** – Puerta de Tierra. HVAC system and plumbing design for the new building. Services and construction inspection for a 115/38 KV electrical substation, San Juan, PR. A Design-Build project.

**Bayamon GIS** – HVAC system and plumbing design for the new building.

### MEDICAL FACILITIES

**VA (OPA Back fill)** - Design of air conditioning, chilled water piping, general and kitchen ventilation systems for expansion and add additional chilled water AHU's to the existing system. Approximately 300 ton of capacity was added in Air Handling systems.

**Hospital Veteranos MRI Facilities**- Design of HVAC and plumbing systems for the MRI area. This system uses rooftops units with electric reheat and ventilation for the required areas. Computer room units were use in critical control areas.

### GOVERNMENT / INSTITUTIONAL

**Escuela Vocacional Luis Munoz Rivera (Utuado), PR** - Design of air conditioning, general and kitchen ventilation systems. This project consists of multiple packaged units that serve each classroom and ventilation for shop areas.

### HOTELS AND RESORTS

**Las Casitas – Hotel El Conquistador Phase II.** HVAC (Total of 450 tons) , piping and plumbing design for all the villas and other buildings in the area. The system design consist of a chilled water plant and chilled water fan coils in all the villas using hot water reheat from energy recovery units in the chillers. Project includes supervision (weekly meetings).

**Cayo Largo Resort – Fajardo** – HVAC and piping design for areas of the resort including ballrooms, lobby, restaurants and villas. The system consist of a chilled water plant (800 tons) that supplies chilled water to different zones of the project using primary secondary system design. The system was basically constant volume using hot water reheat from energy recovery units in the chillers and a backup heater system design. The villas and rooms use chilled water fan coils and pre treated outside air supplied by ahu's to all fan coils.

**Marriot Courtyard – Carolina** – HVAC and plumbing design for all the guestrooms, restaurant, kitchen, lobby and casino areas. The system design consist of various roof top units in the lobby, restaurant and casino areas (250 tons). The use of split systems was implemented for the office, meeting rooms and kitchen areas (50 tons). The design includes the use of PTACS in all the guest rooms in the hotel. The design of a emergency smoke control system was use in the lobby, casino, meeting rooms and restaurant areas. This was a Fast-track Design-Build project.

**Palmas del Mar Clubhouse** – HVAC, piping and plumbing design for the existing building. This design was requested by Palmas del Mar management because humidity problems and

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condensation was observed throughout the building. The system design was based on providing proper balancing (positive pressure), re-balance all the units, new fresh air dx ahu (60ton), reheat to existing ahu's to control humidity and new insulation to all ductwork and piping.

**Las Brisas El Conquistador:** HVAC and plumbing design for all existing guestrooms and suites.

### **Sheraton Hotel Convention Center District:**

HVAC, piping, sprinkler and plumbing design for all the guestrooms, public and back of the house areas. The system design consist of a chilled water system, the chilled water is provided by chillers that provides 2,550 tons of capacity to the hotel in order to supply chilled water with a secondary system to two zones. The HVAC system consist of VAV ahu's and CV ahu's in different areas of the hotel and the use of hi-rise vertical and horizontal fan coil units in the guestrooms. The guestrooms OA system consist of three ahu's with an energy recovery enthalpy wheel (using room exhaust) system to supply OA air to guestrooms and corridors. The design includes an emergency smoke control system for the BOH and FOH areas of the hotel, staircase and guestroom corridors. The design of a fire protection and potable water combined cistern was required in order to provide water to the potable water and sprinkler system of the hotel. LEED Building Design.

**Hotel San Juan and Casino:** HVAC and plumbing design for all existing guestrooms and suites.

## **PRIVATE HOUSING**

**Fairlakes Village – Palmas del Mar** – Design of HVAC and plumbing systems for all the villas. Split systems and general ventilation was used in all the villas.

## **PUBLIC HOUSING**

**Brisas de Cayey** – HVAC design for some areas and plumbing design. 210 units and site improvements.

**El Prado Public Housing Development - San Juan** - HVAC design for some areas and plumbing design. Remodeling for 220 units and site improvements.

**Jose N. Gandara Public Housing Development – Moca** - HVAC design for some areas and plumbing design. Remodeling for 76 units and site improvements.