

## Cocomar Water Control District Advisory Board Membership Application

Name: Alberto J. Torres-Soto  
(Please print)

Address: \_\_\_\_\_

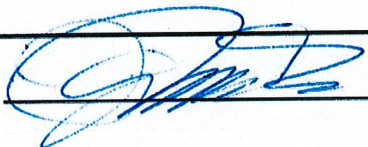
Telephone Number: Home: \_\_\_\_\_ Cell: \_\_\_\_\_

Email Address: \_\_\_\_\_

Please describe neighborhood association or waterway related experience in an attached resume.

Please comment on why you wish to be appointed to serve:

**As part of the Department of Environmental and Engineering Services (DEES) of the City of Margate, I serve as the Senior Engineer in our team. Our former Director of DEES, Mr. Reddy Chitepu, appointed me as his replacement on this Board due to my background in storm drainage, and I would like to continue serving my community as an advisory board member of the Cocomar Water Control District. Thank you!**

Signature:  \_\_\_\_\_ Date: 07/30/2018

**Please submit to:**  
Broward County Water Management Division  
Attn: John Crouse  
2555 W. Copans Road  
Pompano Beach, FL 33069  
Fax: 954-831-3285

For more information please contact John Crouse at 954-831-0765 or [jcrouse@broward.org](mailto:jcrouse@broward.org)

**ALBERTO J. TORRES-SOTO, M.E.C.E., P.E.**  
**CIVIL ENGINEER**

PROFESSIONAL REGISTRATIONS

Civil Engineer  
Florida Professional Engineer – License No. 76652  
Puerto Rico Professional Engineer. - License No. 21086

EDUCATION

Master of Engineering in Civil Engineering – Water Resources  
Polytechnic University of Puerto Rico, San Juan, PR – May 2013

Bachelor of Science in Civil Engineering  
University of Puerto Rico, Mayagüez, PR – Dec. 1998

WORK HISTORY

**Senior Engineer, Department of Environmental & Engineering Services (DEES),  
City of Margate**

Margate, Florida

Jan 2018 – Present

Responsible of the Engineering Division (engineers, project managers, and inspectors); supervise, direct and evaluate assigned staff; handle employee concerns, direct work, counsel, development, and complete employee performance assessments.

Represent the department in meetings and activities involving City committees and boards, employees from other departments, citizens, municipalities, county, state and federal governmental agencies and maintain excellent relationship with other jurisdictions. Performs research and develops Standard Operating Procedures (SOP's) as needed for engineering and water/wastewater operations. Performs emergency response duties as assigned.

Responsible for the supervision and overall management of the DEES capital improvement program; capital projects of other City departments; monitoring of and compliance with new and existing regulatory rulemaking related to municipal engineering and operation of water and wastewater utilities; in-house design projects; plan/permit review and inspection of private or public development projects within the City.

Participate in the analysis and review of engineering studies and designs prepared by professional consultants; prepare recommendations and reports for the consideration of technical, professional, and administrative superiors and committees. Prepare design plans and specifications as needed and act as Engineer of Record for in-house design projects.

Capital Improvement Projects (CIPs) and Managing Consultants

National Pollutant Discharge Elimination System (NPDES) – Municipal Separate Storm Sewer System (MS4)

National Flood Insurance Program's (NFIP) Community Rating System (CRS)

Surface Water Management Permits and Operation Licenses

Development Review Committee (DRC) and permit reviews

Public Interaction with City of Margate 'Residents'

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**Urban Engineer, Department of Sustainable Development (DSD), City of Fort Lauderdale**

Fort Lauderdale, Florida

Aug 2015 – Dec. 2017

Responsible for examining a variety of engineering and construction plans to determine whether plans, specifications, and materials conform to legally established codes and requirements. Provide engineering training to new team members. Ensure that minimum City engineering adequacy standards and principles such as geometric roadway, transportation, site drainage and utility (water, sewer, stormwater, and franchise) design are met, and that all the development is in accordance with all Florida Administrative Codes, Florida Building Code, and the City of Fort Lauderdale Code of Ordinances & Unified Land Development Code. Collaborates on Code of Ordinances and Comprehensive Plans revisions. Exercises considerable independent judgment, with major technical or enforcement problems reviewed with Land Development Manager.

Development Review Committee (DRC)

Building Permit Plan Review

Franchise Utilities Permit Review

Public Interaction with City of Fort Lauderdale 'Neighbors'

**Keith & Associates, Inc.**

Pompano Beach, Florida

Apr 2014 – July 2015

Senior Project Engineer. Design of site and parking layouts, balanced earth movements, signage and maintenance of traffic, storm and sanitary sewer system, hydrologic and hydraulic studies, stormwater detention systems, river and encroachment analyses, bridge and culvert hydraulic analyses. Surface Water Management License Application, Environmental Resource Permits, FDOT Pre-App., Water, and Sewer permitting. Professional Networking and Charity Events. Provide engineering training to team members who have just graduated from college and evaluate their performance.

**Consultant in Civil Engineering and Water Resources (Self-employed)**

Bayamon, Puerto Rico

May 2010 – Mar 2014

Consultant for the following companies:

UNIPRO Architects, Engineers And Planners

Naye Group Corporation

EFGB Consulting Engineers

RJ Industrial Contractor Corporation

Kyros Corporation

Spec Design Corporation

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**UNIPRO Architects-Engineers, LLP**

Guaynabo, Puerto Rico

Jan 2002 to May 2010

Senior Civil and Water Resources Engineer. Design of site and parking layouts, balanced earth movements, signage and maintenance of traffic, storm and sanitary sewer system, hydrologic and hydraulic studies, stormwater detention systems, river and encroachment analyses, bridge and culvert hydraulic analyses, planning and feasibility studies for renewable energy projects. Head, Civil Engineering Section, responsible for all civil and water resources design of firm, supervision of an engineer (1), a designer (1) and draftsmen (2), acting as project manager for certain projects and general project engineering for the civil section.

**Gregory L. Morris & Associates**

Old San Juan, Puerto Rico

May 2000 – Jun 2001

Associate Engineer. Civil inspector in Fajardo Earthen Dam And Intake Facilities Project, Fajardo, PR. Inspection during construction of the access road to the river structures, culverts, river dam and intake structure, diversion weir, emergency spillway, installation of the pre-stress raw water pipe and earthen dam water intake.

Feb 1999 – May 2000

Associate Engineer. Design of storm drainage system, hydrologic and hydraulic studies, stormwater detention systems, river and encroachment analyses, bridge and culvert hydraulic analyses.

EXPERIENCE

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**Capital Improvement Projects (CIPs)**

Identify and develop scope and budget for new capital projects; plan and prepare long-term capital improvement program. Perform professional engineering work in the office and field in connection with the development and preparation of engineering plans for typical municipal projects such as roadway construction, storm drainage systems, subdivision improvements, water and wastewater systems, water and wastewater water treatment facilities, and various other civil engineering activities.

**National Pollutant Discharge Elimination System (NPDES) – Municipal Separate Storm Sewer System (MS4)**

Coordinate the gathering information efforts with consultants and other departments within the City to complete the MS4 annual report; participate in meeting with the County and State agencies to present the City's concern in regards to the efforts in the compliance of the NPDES permit and coordinate with other municipalities located in the same watershed in activities/exercises such as, but not limited to, Walk the WBID and the development of the Total Maximum Daily Load (TMDL) program for the impaired waterbody assigned by the State agency.

**National Flood Insurance Program's (NFIP) Community Rating System (CRS)**

Coordinate the gathering information efforts with consultants and departments within the City for the development of information required to comply with the CRS program and provide a record keeping for future visits from CRS. Coordinate with the CRS Specialist assigned by FEMA, the extension of deadlines in order to comply with the program's requirement. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions meeting the three goals of the CRS: Reduce flood damage to insurable property, Strengthen and support

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the insurance aspects of the NFIP, and Encourage a comprehensive approach to floodplain management.

**Development Review Committee (DRC) & Building Permit Plan Review**

Ensures that minimum City engineering adequacy standards and principles such as geometric roadway, transportation, site drainage and utility (water, sewer, stormwater, and franchise) design are met and that all the development is in accordance with all Florida Administrative Codes, Florida Building Code, and City Ordinances.

**Planning and Design Work**

Prepare planning and design requirements, site location, and also prepare designs specifications and estimates. Design applying a broad knowledge of the conventional methods, precedents, and standards. Work on complex situations which require adaptation or modification of models of the work environment. Create and participate in investigations to improve the design of materials and methods. Prepare designs characterized by a variety of conditions. Prepare conceptual designs, preliminary and final layouts. Coordinate assignments with other agency engineers and architects responsible for related features. Reviews architect-engineer plans and specifications for adequacy and feasibility.

**Planning and Feasibility Studies For Renewable Energy Projects**

Prepare planning reports and figures for photovoltaic renewable energy projects fatal flaw analyses. The reports have included the topographic features and approximate elevations, Federal Emergency Management Agency – Flood Insurance Maps analysis, USFWS wetlands, Raising Center of Municipal Revenue cadastre, soil and land use.

**Site and Parking Layout**

Design and optimize industrial, commercial, renewable energy, public and private housing projects site plans. The site plans have included the internal streets, sidewalk layouts, parking and planting areas, drop-off areas, loading and unloading areas.

**Earth Movement and Grading Plan**

Design earth movement and grading for the site. These include the calculation of the cut and fill material of the sites to create a balanced earth moment and the grading plan associated to manage the superficial site runoff.

**Storm Drainage and Sanitary Sewer Systems**

Design site and offsite storm and sanitary sewer systems. Calculate runoff and water usage flows to design the size, slope, and material of the sewers systems and sizing of stormwater storage systems.

**Hydrologic and Hydraulic / Drainage Studies**

Analyse water bodies (rivers and creeks) to establishing base flood elevations and floodway limits, and evaluate projects impacts in the floodplains. Calculate culvert and bridge sizes, and finish elevations for road and streets.

Design storm drainage detention structures to avoid new developments to impact the existing systems. Prepare drawing and specifications for the structures.

**Provide Professional Engineering Advice**

Provide professional advice to peers, subordinates or non-professional administrators or managers. Engineering advice on complex situations that require adaptation or modification of precedents typical of the work environment. Conducts investigations to obtain factual information pertaining to the issue. Provides professional oversight and project management for production or maintenance efforts.

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MEMBERSHIP IN PROFESSIONAL SOCIETIES

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Environmental & Water Resources Institute  
American Public Works Association  
Professional Engineers and Land Surveyors Association of Puerto Rico  
Institute of Civil Engineers of Puerto Rico  
CIAPR Exterior Chapter with Headquarters in Florida

HONOR

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Lecturer on Site Grading Using Autodesk Civil 3D 2010 for the Master Degree Site Design course, Polytechnic University of Puerto Rico, San Juan Campus, – 2012.

Lecturer on Site Grading Using Autodesk Civil 3D 2010 for the Bachelor Degree Drafting Course, Polytechnic University of Puerto Rico, San Juan Campus, – 2012.

Lecturer on Underground Water Analysis Using Modflow package – GMS ver. 7, for the Master Degree Underground Water course, Polytechnic University of Puerto Rico, San Juan Campus, – 2011.

ADDITIONAL SKILLS

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Languages: Spanish and English

Training: FEMA NIMS IS-100.b, IS-200.b, IS-700.a and IS-800.b, Stormwater Management Inspector, Active Shooter, Customer Service

Software: Microsoft Office, Community Plus, ArcGIS, AutoCAD, Civil 3D, AutoTurn & ParkCAD, Hydrologic/Hydraulic Modeling, ICPR ver. 3.1, HEC-RAS, HMS, HydroCAD, HY-8, Autodesk Storm and Sanitary Analysis.

PARTICIPATED AS A CIVIL ENGINEER IN THE DESIGN OF THE FOLLOWING PROJECTS:

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- 2018 Water Main Improvement Project Phase II, City of Margate, Margate FL
- 2018 Water Main Improvement Project Phase I, City of Margate, Margate FL
- 2017 Water Main Improvement Project, City of Margate, Margate FL
- Port Everglades – Southport Phase IX-B Container Yard Storm Drainage Analysis and Civil Drawings, Fort Lauderdale, FL
- Everglades Holiday Park, Preliminary Civil Engineering Design and Cost Estimate, Fort Lauderdale, FL
- Woodmont Country Club Stormwater & Site Development Master Plan, Tamarac, FL
- AJZ properties LLC, Cache Cleaners Water and Wastewater Construction Drawings, Deerfield Beach, FL
- Morrow Equipment Co., New Facilities at Powerline Road, Pompano Beach, FL
- City of Pompano Beach (COPB) SW 9th Avenue Roadway Improvements, Pompano Beach, FL
- Xylem Inc., Water and Wastewater Construction Drawings, Pompano Beach, FL
- PR Public Housing Administration (PRPHA)– Brisas del Turabo I and II Modernization Final Design, Caguas, PR
- AES Puerto Rico – Stormwater Management Design and Construction drawings, Guayama, PR
- KDC Solar – Planning and Feasibility Studies for Renewable Energy Projects at Various Site Locations in Puerto Rico

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- One Planet – Site Design for the Solar Facility Project in Vega Baja, PR
  - AES Solar – Planning and Feasibility Studies For Renewable Energy Projects at Various Site Locations in Puerto Rico
  - AES Ilumina –Preliminary Hydrologic Study, Civil Drawings and Design and Build Drawings Comments for the 20MW Solar Photovoltaic Facility, Guayama, PR
  - Solid Waste Authority (SWA) – Solid Waste Transfer Station, Aguadilla, PR
  - City of Carolina, PR – Multimodal Center Design, Carolina, PR
  - Warner Chilcott Pharmaceuticals – New Administration Building Expansion Design, Manati, PR
  - Puerto Rico Highway and Transportation Authority (PRHTA) – Cerca del Cielo Community Access Preliminary Design, Ponce, PR
  - Boston Scientific Pharmaceuticals – New Sterilization Building, Dorado, PR
  - Puerto Rico Port Administration (PRPA) – Tanks Removal and Relocation from Diego Jimenez, Fajardo to Jose Aponte de la Torre, Ceiba Airport, Fajardo/Ceiba, PR
  - UPS – Tenant Improvements Supply Chain Solutions Facility at San Juan Industrial Park, San Juan, PR
  - Janssen Pharmaceuticals– 38KV Juncos TC and Janssen site Power Line Maintenance of Traffic, Gurabo, PR
  - Pall Pharmaceuticals – Cafeteria Upgrade, New Parking Expansion & Master Plan Assessment for New Facilities, Fajardo PR
  - Bacardi – New Operation Port Unloading Transfers Area, Cataño, PR
  - Wyeth Pharmaceuticals Distribution Center – New Conference Room Expansion, Guaynabo, PR
  - V. Suarez Co. – San Juan Industrial Park Building “B” Expansion, San Juan PR
  - Inter-American Hospital of Advanced Medicine (HIMA) - San Pablo, New Extended Care Building, Bayamon, PR
  - Medical Center of Puerto Rico – New ASEM Clinics, San Juan, PR
  - HIMA – San Pablo, Elevated Corridor, Caguas, PR
  - Janssen Pharmaceuticals – Vortex New Facilities, Gurabo, PR
  - HIMA – San Pablo, Physical Therapy New Building, Bayamon, PR
  - PR Public Bldg. Authority (PRPBA)-Trauma Stabilization Center Utility Maintenance of Traffic, Mayaguez, PR
  - AEP – Trauma Stabilization Center and Heliport, Mayaguez, PR
  - PRPHA – Manuel F. Rossy Modernization Final Design, San German, PR
  - HIMA – San Pablo, New Road Improvement, Caguas, PR
  - Bacardi – Process Area Expansion Master Plan, Cataño, PR
  - Puerto Rico Aqueducts and Sewer Authority (PRASA) – New Toa Alta Water Waste Pump Station, Toa Alta, PR
  - Janssen Pharmaceuticals – Concerta New Facilities Final Design, Gurabo, PR
  - PRASA – Llanos Costa Pump Station 20% Design, Cabo Rojo, PR
  - Wyeth Pharmaceuticals – New South Parking Expansion, Guayama, PR
  - V. Suarez Co. – San Juan Industrial Park New Facilities, San Juan PR
  - Roig Development Corp. – Master Plan Assessment for Finca Lopito, Humacao, PR
  - Medical Science Campus, UPR – New Ambulatory Clinics at Reparto Metropolitano Mall, San Juan, PR
  - Puerto Rico Industrial Dev. Co. (PRIDCO) – Las Americas Technology Park Cost Estimate, Moca, PR
  - HIMA – San Pablo, Annex Building Phase-2, Plaza 1, Cancer Center, Electro-Mechanical Building, Caguas, PR
  - PRPBA– New Elementary School Bo. Ceiba, Cidra, PR
  - Jansen Pharmaceuticals – New OROS Project, Gurabo, PR
  - Guidant Puerto Rico B.V. Pharmaceuticals – New Facilities & Hydrologic and

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- Hydraulic Study Arecibo, PR
- PR Housing Finance (PRHF) – New Secure Home-Housing Development Final Design, Lajas, PR
- Pfizer Pharmaceuticals Inc. – North Parking Area Upgrade, Building 132, Utility Area Electrical Distribution, Final Design & Building 103 Electrical Substation Expansion and Waste Heat Recovery Project Barceloneta, PR
- PRIDCO – Jobos Industrial Park Final Design, Guayama, PR
- PRPHA – Aristides Chavier Public Residential Modernization, Ponce, PR
- PRHF– New Secure Home-Housing Development, Juana Díaz, PR
- Roig Development Corp. – Jardín Central New Housing Development, Humacao, PR
- PRPBA –New Middle School at Piñas Ward, Toa Alta, PR
- Pharmacia & Upjohn Caribbean, Inc. – Tank Truck Unloading Facility, Barceloneta, PR
- PR Infrastructure Finance Authority (PRIFA) – Luquillo Sanitary Sewer, Luquillo, PR
- Colgate Palmolive Pharmaceuticals – New 38KV Transformer Replacement, Juncos, PR
- PRHTA – New Weigh Station at PR-52, Santa Isabel, PR
- PRHTA – Juncos Connector (PR-31 to PR-185), Juncos, PR
- Medtronic Pharmaceuticals, Inc. – New Medtronic Facilities, Juncos, PR
- Barclay White – CORDIS Facilities for Medical Device (OMJ), San German, PR
- Guidant Puerto Rico B.V. Pharmaceuticals – Modifications to Room B for Guidewire Project and Hydrologic and Hydraulic Study for the New Parking Facilities Project, Dorado, PR
- BARD Shannon Limited Pharmaceuticals – New Facilities Final Design & Hydrologic and Hydraulic Study and Storm Drainage Design, Humacao, PR
- PRPHA – La Montaña Public Residential Modernization, Aguadilla, PR
- Toyota of Puerto Rico – Use Permit Application, Toa Alta, PR
- Sam’s Club – Hydrologic and Hydraulic Study Phase-1, Hatillo, PR
- Lago Playa Development – Hydrologic and Hydraulic Study, Toa Baja, PR
- AES – Hydraulic Study for Electrical Utilities at Zone AE-Guamani River, Guayama, PR
- Wal-Mart – Hydrologic and Hydraulic Study for Wal-Mart Super Center, Cayey, PR