

# FIRE PROTECTION

## CAPABILITY STATEMENT

### COMPANY OVERVIEW

- ▶ Over fifteen years of excellence in delivering premier facilities management and support operations services throughout the Asia-Pacific region, acting as both a prime and sub-consultant.
- ▶ Headquartered in Alexandria, Virginia, Planate's Asia-Pacific regional office in the Philippines has provided comprehensive technical support for over a decade.
- ▶ Over 168 professionals in the Asia-Pacific and more than 350 worldwide, driving innovation in design and implementation.
- ▶ Delivered a series of highly successful projects across the Asia-Pacific region, showcasing expertise in efficient project execution, innovative problem-solving, and seamless collaboration.
- ▶ Expertise in managing and executing multi-disciplinary projects, including Architecture & Engineering, Facilities Planning, and Engineering Support.
- ▶ Offering 24/7 on-site and reach-back support.



## HIGHLIGHTED SERVICES

### FIRE PROTECTION SERVICES

- ▶ Fire Protection & Life Safety Assessments
- ▶ Fire Protection Design Services
- ▶ Building Fire Code Consulting
- ▶ 3rd Party Qualified Fire Protection Engineer (QFPE) Services & Consulting
- ▶ Fire Protection System Commissioning & Inspections

### ENGINEERING SUPPORT SERVICES

- ▶ Construction/Project/Program Management
- ▶ Quality Assurance/Quality Control (QA/QC)
- ▶ Planning/Estimating/Engineering Technician Support
- ▶ Energy and Water Management
- ▶ Cleared (TS/SCI) Engineering/Construction Staff
- ▶ Survey and Mapping (GIS)
- ▶ Facility Condition Assessment
- ▶ Engineering Studies (Feasibility, Utility Studies, etc.)

### ARCHITECTURE AND ENGINEERING SERVICES

- ▶ Mechanical, Electrical, and Plumbing (MEP) Design
- ▶ Construction Drawings and Specifications
- ▶ Construction Project Cost Estimates
- ▶ Independent Design Reviews
- ▶ Inspection and Testing Services
- ▶ Building Information Modeling (BIM) Systems



## PAST PERFORMANCES

### Roi-Namur Fire Suppression Network Support Services; US Army Garrison, Roi-Namur Island, Kwajalein Atoll, Republic of Marshall Islands

Planate provided fire protection design services which included a 95% complete set of bridging documents to be awarded to the design-build contractor for completion. The project included:

- ▶ 83,000-gallon glass-infused steel water storage tank with foundation
- ▶ Concrete and/ or masonry pump with separate rooms for the pump and emergency generator.
- ▶ 8" distribution loop with new fire hydrants and capped branches in order to allow future sprinkler system installations to 12 existing residential dormitories and support buildings.

All equipment, materials, and systems were designed to resist the island's harsh salt and typhoon-prone environment. Engineering services included providing complete code analysis, analysis of each building's future requirements, hydraulic calculations, and design drawings and specifications for the pump house and distribution system. System size included: 400 sq.ft. pump house; 4,000 feet of piping; 1,000 GPM @ 80 PSIG fire pump; and, 83,000 gallon tank.



### Fire Suppression System Design for Building 2408 – 2022; Al Dhafra Air Base, UAE

Developed sprinkler system design for Building 2408 at Al Dhafra Air Base, UAE. The project included:

- ▶ Sprinkler system design coverage for high bay storage areas, mezzanine offices, and storage spaces below the mezzanines
- ▶ Review and incorporation of government-provided site water supply and hydrant flow tests
- ▶ Complete code analysis
- ▶ Sprinkler system hydraulic analysis



### POINTS OF CONTACT

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### OFFICE LOCATIONS

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#### PAPUA NEW GUINEA

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