

# **GSA FACILITY DESIGN/BUILD AT NW 46<sup>TH</sup> ST & NW 35<sup>TH</sup> AVE. – CIVIL ENGINEERING SERVICES**

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**Client Name:** *Miami-Dade County /PJB Architects (Prime)*

**Type of Service:** *Civil Engineering Services*

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Milian, Swain & Associates, Inc. (MSA) is currently providing Civil Engineering Services for the Miami-Dade County GSA Facility Design/Build project located at NW 46<sup>th</sup> Street and NW 35<sup>th</sup> Avenue in Miami, Florida. MSA's scope of services includes the following:

**Design & Permitting** – MSA is preparing civil infrastructure constructions drawings, technical specifications and providing regulatory process and construction phase assistance as follows:

### ***Preliminary Engineering:***

- Coordination of all topographic surveys and drainage tests.
- MSA is requesting utility record data from the utility companies listed as having under/aboveground utilities within & adjacent to the project site; including requesting applicable water & sewer as-built from MDWASD.
- Assisting with requesting a Water & Sewer Agreement from the MDWASD. Services include:
  - Request & obtain current Boundary & Topographic Survey from the Prime consultant.
  - Request & obtain proposed site plan from the Prime consultant.
  - Prepare & submit formal Request for Zoning Verification letter to MD- Planning & Zoning Dept.
  - Prepare & submit Request for Agreement package to the MDWASD-New Business Section.
  - Retrieve, review, submit preliminary agreement to the GSA through Prime for review & execution.
  - Request Agreement fees and Opinion of Title from the GSA through the Prime consultant.
  - Submit Agreement to MDWASD executed by the GSA.



**Aerial view of the GSA Facility located at NW 46<sup>th</sup> Street & NW 35<sup>th</sup> Avenue**

### ***Water Distribution System***

- MSA is preparing design drawings for a new 12-inch watermain extension and related appurtenances (firelines, water services, backflow preventers, domestic & irrigation meters) to serve the domestic & site fire demands for the proposed building.
- Processing and obtaining approvals for the Water Distribution System from Miami Dade Public Works Dept., Miami-Dade Water and Sewer Department, Fire Department, DERM-Water Supply Section and Health Department.

### ***Gravity Sewer System***

- Design new onsite sewage collection system to serve the proposed building and connecting to existing public sewer manholes located on NW 35th Avenue directly abutting the project site.
- Process and obtain approvals for the sanitary sewer system from Miami-Dade Water and Sewer Department and DERM-Waste Water Section.

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### ***Paving, Grading, Drainage, Traffic Signage & Pavement Markings***

#### **On-Site**

- MSA will prepare onsite paving, grading, drainage, traffic signage, markings plans calculations and pertinent details for the proposed parking areas, driveways with driveway connections to NW 46th St. and NW 35th Ave., using exfiltration trenches (French drains) as the method of stormwater disposal.

#### **Off-Site**

- MSA will prepare Paving and Grading improvements to the adjacent public roadway system directly abutting the project site as follows:
  - NW 46th Street: Design modifications to existing sidewalk and curbing necessary to accommodate the proposed driveway connection to NW 46th Street.
  - NW 35th Avenue: Design modifications to the existing roadway cross-section of NW 35th Avenue limited to grading improvements of the existing swale along the west half of the road Right of Way.

MSA will process and obtain approvals for the **ONSITE** and **OFFSITE** Paving, Grading, Drainage improvements from Miami Dade Public Works Dept. – Drainage & Roadway Sections and Miami Dade County DERM – Water Control Section.

#### **Construction Phase Services** - MSA will assist during the Construction phase of the project as follows:

- Attend Pre-Construction meeting with MDCPS, Prime Consultant and Contractor.
- Review and approve civil infrastructure shop drawings.
- Perform construction observations to monitor the general status/progress of the civil work.
- Provide minor design revisions and clarification of the civil construction documents, if required.
- Perform a Substantial Completion Construction observation of the proposed civil improvements, to ensure that the work completed meets the minimum requirements for substantial completion in accordance with the Contract Documents, including preparation of a Punch List of any defects and discrepancies in the CIVIL work.
- Perform a Final Construction Observation of the civil improvements to ensure satisfactory completion of all items in the Punch List.
- Review civil as-built drawings prepared by contractor's surveying consultant for compliance with the approved construction documents.
- Prepare and submit water main completion of construction certifications to Dade County Health Department.
- Prepare & submit the Sanitary Sewer System Completion of Construction Certification to Dade County DERM - Wastewater Section; if applicable.
- Prepare & submit stormwater system certification to Dade County –DERM Water Control.