



BOYKEN

INTERNATIONAL

Driving the building process for optimal results®

General Services Administration Schedules for

Professional Engineering Services (PES)

Contract Number: GS-10F-0282T

Federal Supply Group 871, Class R425

Contract Administration:

Susan Wise (770) 992-3210

swise@boyken.com

Contract Period: June 21, 2007 through May 31, 2012

Introduction

Boyken International has managed all phases of government construction from pre-design through completion, including project controls, estimating, procurement, expediting, inspection, contract administration, and management of contractors, subcontractors and suppliers for federal, state and local government owners. Boyken is a proud holder of a General Services Schedule Contract.

For decades, Boyken has developed a reputation for its innovative approaches to preventing and resolving time and cost overruns on major construction projects. Boyken offers its government clients a full spectrum of project management services, enabling them to complete new or in-progress construction on time and within budget, while minimizing claims and other risks.

Headquarters:

Boyken International, Inc.
400 Northridge Road, Suite 1200
Atlanta, Georgia 30350
Phone: 770-992-3210
Fax: 770-992-1489
Web site: www.boyken.com

Market Sectors:

Federal, State & Local
Governments
Commercial
Healthcare/Laboratories
Higher Education
Hospitality

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through *GSA Advantage!* - a menu-driven database system.

The INTERNET address for *GSA Advantage!* is:
<http://GSAAdvantage.gov>.

For more information on ordering from Federal Supply Schedules, click on the FSS Schedule button at
<http://www.fss.gsa.gov>.



1. Special Item Numbers Awarded:

- a. The Primary Engineering Discipline awarded on this Schedule is Civil Engineering.

Special Item Numbers	Description	Page
871-1	Strategic Planning for Technology Programs	9
871-2	Concept Development and Requirements Analysis	10
871-4	Test and Evaluation Services	11
871-6	Acquisition and Life Cycle Management	12
871-7	Construction Management Services	13

- b. **Price List:**

See Price List at the end of Commercial Job Descriptions section (Page 18).

- c. **Commercial Labor Category Titles Description**

See Labor Category Descriptions corresponding to Boyken’s hourly rates at the end of the SIN Descriptions section (Page 15).

2. Maximum Order Threshold:

The maximum order threshold value per order is \$750,000. Orders may be placed above this threshold in accordance with FAR 8.404. Please refer to page 6.

3. Minimum Order:

The minimum dollar value per order is \$100.

4. Geographic Coverage:

Domestic and Overseas

5. Primary Points of Production:

Georgia / Headquarters:
 Boyken International, Inc.
 400 Northridge Road, Suite 1200
 Atlanta, Georgia 30350
 (770) 992-3210

Texas:
 Boyken International, Inc.
 1177 West Loop South, Suite 1616
 Houston, Texas 77027
 (713) 349-9333

Florida:
 Boyken International, Inc.
 4901 Vineland Road, Suite 350
 Orlando, Florida 32811
 (407) 248-8301

Boyken International, Inc.
 17304 Preston, Suite 800
 Dallas, Texas 75252
 (214) 438-3733



6. Discount from List Prices:
 Prices shown herein are Net (discount deducted). They also include the GSA Industrial Funding Fee (IFF) of which 0.75% is to be forwarded by Boyken to GSA quarterly.

7. Quantity Discounts:
 No other discounts are available in this Price List.

8. Prompt Payment Terms:
 Payment terms are Net 30 days.

9. Government Purchase Cards:
 Government Purchase Cards are accepted below the micro purchase threshold.

10. Foreign Items:
 None.

11a. Time of Delivery:
 Specified on the task order.

11b. Expedited Delivery:
 Contact Contractor.

11c. Overnight and 2-day Delivery:
 Contact Contractor.

11d. Urgent Requirements:
 Contact Contractor.

12. F.O.B. Points:
 Destination.

13a. Ordering Addresses:
Georgia / Headquarters:
 Boyken International, Inc.
 400 Northridge Road, Suite 1200
 Atlanta, Georgia 30350
 (770) 992-3210

Texas:
 Boyken International, Inc.
 1177 West Loop South, Suite 1616
 Houston, Texas 77027
 (713) 349-9333

Florida:
 Boyken International, Inc.
 4901 Vineland Road, Suite 350
 Orlando, Florida 32811
 (407) 248-8301

Boyken International, Inc.
 17304 Preston, Suite 800
 Dallas, Texas 75252
 (972) 248-3588



13b. Ordering Procedures:

For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's) and a sample BPA may be found at the GSA/FSS Schedule homepage (fss.gsa.gov/schedules).

14. Payment Address:

Boyken International, Inc.
400 Northridge Road, Suite 1200
Atlanta, Georgia 30350
(770) 992-3210

15. Warranty Provision:

Contractor's standard commercial warranty.

16. Export Packing Charges:

N/A

17. Terms and Conditions of Government Purchase Card Acceptance:

Contact Contractor.

18. Terms and Conditions of rental, maintenance, and repair (if applicable):

N/A

19. Terms and Conditions of installation (if applicable):

N/A

20. Terms and Conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable):

N/A

20a. Terms and Conditions for any other services (if applicable):

N/A

21. List of service and distribution points (if applicable):

N/A

22. List of participating dealers (if applicable):

N/A

- 23. **Preventive maintenance (if applicable):**
N/A

- 24a. **Special attributes such as environmental attributes, (e.g., recycled content, energy efficiency, and/or reduced pollutants):**
N/A

- 24b. **If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (EIT) supplies and services and show where full details can be found:**
The EIT standards may be found at: www.Section508.gov.

- 25. **Data Universal Numbering System (DUNS) number:**
10-2031473

- 26. **Notification regarding registration in Central Contractor Registration (CCR) database:**
Registered

- 27. **Boyken will accept LH and FFP contracts for services.**

Ordering Requirements Exceeding the Maximum Order of \$750,000

- a. In accordance with FAR 8.404, before placing an order that exceeds the maximum order threshold (\$750,000), ordering offices shall ---
 1. Based upon the initial evaluation, generally seek price reductions from the schedule contractor(s) appearing to provide the best value (considering price and other factors);

and
 2. After price reductions have been sought, place the order with the schedule contractor that provides the best value and results in the lowest overall cost alternative (see FAR 8.404a). If further price reductions are not offered, an order may still be placed, if the ordering office determines that it is appropriate.
- b. For orders exceeding the maximum order threshold, Boyken may:
 1. offer a new, lower price for the requirement;
 2. offer the lowest price available under the contract; or
 3. decline the order (orders must be returned in accordance with PES-52.216-19).

Professional Engineering Services

The Primary Engineering Discipline offered by Boyken under this contract is Civil Engineering as it relates to all aspects of facilities. In this schedule, Civil Engineering encompasses the entire realm of planning, evaluation and management involved with constructed infrastructure, facilities and buildings, transportation systems, water, earthworks, and other structures.

Services Not Included

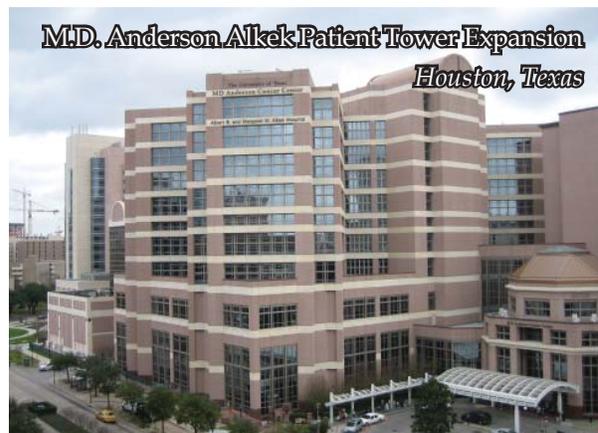
Construction and Architect-Engineering services as set forth in FAR Part 36 [including design, construction, alteration or repair (including dredging, excavating and painting) of buildings, structures, or other real property]] are not included.

Special Item Number (SIN) Specifics:

Boyken International is proud to be an approved supplier on the GSA Professional Engineering Services Schedule. This Schedule simplifies professional engineering tasks and allows government owners to acquire expertise in the mechanical, electrical, civil and chemical engineering disciplines. As an approved supplier, we are confident that Boyken may be a valued resource to your organization in the areas of Strategic Planning for Technology; Concept Development and Requirements Analysis; Testing and Integration; and Acquisition, Life Cycle Management, and Construction Management Services. The following summary highlights how Boyken can help you in these vital areas of professional engineering services.



1875 Pennsylvania Avenue
Washington, D.C.



M.D. Anderson Alkek Patient Tower Expansion
Houston, Texas



Liberty Street Parking Garage
Savannah, Georgia



University of Kentucky Patient Care Facility
Lexington, Kentucky



GICC Hotel Headquarters
Atlanta, Georgia

Introduction to Boyken International, Inc.

Established in 1980, Boyken offers extensive construction and project management services to government owners worldwide. Boyken has participated in over 1,000 project assignments with a total construction value of over \$100 billion. Boyken has managed all phases of the construction process from pre-design through completion including project controls, estimating, procurement, expediting, inspection, contract administration, and management of contractors, subcontractors and suppliers.



Engineering News-Record magazine recently ranked Boyken as a Top 40 US program management firm in the United States. Boyken is also a world leader in dispute resolution consulting. Boyken has developed an international reputation for its innovative approaches to preventing and resolving time and cost overruns on major construction projects worldwide. Boyken offers its clients a full spectrum of construction dispute resolution services, enabling them to complete construction on time and within budget, while minimizing claims and other risks.

Boyken's project management services include:

- Program Management
- Project Management
- Construction Management
- Project Management Oversight
- Troubled Project Turnaround
- Staff Augmentation
- Project Labor Agreements
- Management Consulting

Boyken's Dispute Resolution services include:

- Construction Claims
- Litigation Support
- Expert Witness Testimony
- Cost and Damages Assessment
- Delay and Disruption Analysis
- Project Neutral and Arbitration Services

Boyken employs over 60 professionals among four main offices throughout the world with experiences in the civil, electrical, mechanical and structural engineering disciplines, as well as extensive project management experience. The following is a summary of how Boyken can help you in each of our five approved GSA schedule services:

SIN 871-1 Strategic Planning for Technology Programs/Activities

Services required under this category involve the definition and interpretation of high-level organizational engineering performance requirements such as projects, systems, missions, etc. Typical associated tasks include analysis of mission, program goals and objectives, requirements analysis, organizational performance assessment, special studies and analysis, training, privatization and outsourcing.

Strategic planning is a critical phase in the project management process. Boyken has performed numerous management reviews and management studies for such noted clients as the University of Texas Medical System, the Center for Disease Control and Prevention, Hartsfield-Jackson Atlanta International Airport, Georgia State Financing and Investment Commission, Greater Orlando Aviation Authority, National Emerging Infectious Diseases Laboratory (NEIDL), USAMRIID, and many universities, municipalities and other local government entities.



Our organization and management recommendations on these assignments has had a significant impact on the productivity of these organizations and helped them reach specific performance objectives.

Boyken has provided extensive project management services on some of the largest and most important internationally funded projects for agencies including the MD Anderson Cancer Center, Methodist Hospital, Duke University, Centers for Disease Control, and numerous luxury resorts in the Caribbean and Latin America, including Atlantis in the Bahamas.

Projects we have managed over all industry sectors, including airports; hospitality (hotels, resorts and convention centers); Healthcare (hospitals and bio-containment labs); government; including federal, state and local; Higher Education and Themed Entertainment.

SIN 871-2 Concept Development and Requirements Analysis

Services required under this category involve abstract or concept studies and analysis, requirements definition, preliminary planning, the evaluation of alternative technical approaches and associated costs for the development or enhancement of high level general performance specifications of a system, project, mission or activity. Typical associated tasks include requirements analysis, cost/cost-performance trade-off analysis, feasibility analysis, regulatory compliance support, technology conceptual designs, training, privatization and outsourcing.

Boyken works with clients to develop high-level technical alternatives to determine the goals of the system, assess how the systems and personnel will be affected, and then recommend solutions. Solutions are examined against the major goals of the program and ongoing evaluations are performed at regular intervals. Boyken International uses the latest management information system tools including Primavera P6, Prolog, and Share File. These web based applications allow all key program personnel including the owner to access the overall program or individual project data including schedules, budgets, and all correspondence and design plans. Our team is able to increase efficiency, and develop a standardized code-based project control system. We have also successfully reduced budgets by millions of dollars with challenging value engineering sessions using a prescribed process.



Boyken International helps our clients execute detailed external independent reviews for entire projects which validate the proposed technical, cost and schedule baseline, and assess the overall status of the project management and control systems. The review provides confirmation of project accomplishments and/or deficiencies and provides pertinent objective information for management reviews. A successful review helps to assure readiness to proceed to a subsequent project phase, confirms orderly and mutually supportive progress of various project efforts, validates functional integration of project products and efforts or organizational components, enables identification and resolution of issues at the earliest time, supports event-based decisions, and controls overall project risk.

SIN 871-4 Test and Evaluation

Services required under this category involve the application of various techniques demonstrating that a prototype system (subsystem, program, project or activity) performs in accordance with the objectives outlined in the original design. Typical associated tasks include prototype testing, environmental testing, independent verification and validation, reverse engineering, simulation and modeling (to test the feasibility of a concept), system safety, quality assurance, physical testing of the product or system, training, privatization and outsourcing.

Boyken helps our clients execute detailed external independent reviews for entire projects which validate the proposed technical, cost and schedule baseline, and assess the overall status of the project management and control systems. The review provides confirmation of project accomplishments and/or deficiencies and provides pertinent objective information for management reviews. A successful review helps to assure readiness to proceed to a subsequent project phase, confirms orderly and mutually supportive progress of various project efforts, validates functional integration of project products and efforts or organizational components, enables identification and resolution of issues at the earliest time, supports event-based decisions, and controls overall project risk.



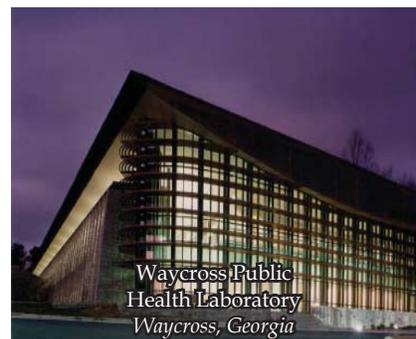
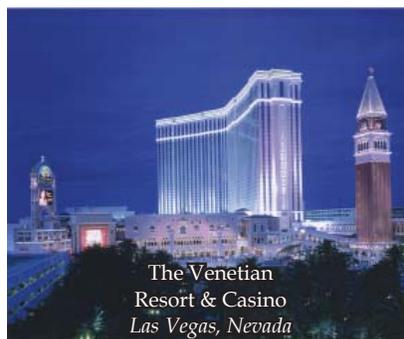
SIN 871-6 Acquisition and Life Cycle Management

Services required under this SIN involve all of the planning, budgetary, contract and systems/program management execution functions required to procure and/or produce, render operational and provide life cycle support (maintenance, repair, supplies, engineering specific logistics) to technology-based systems, activities, subsystems, projects, etc. Typical associated tasks include operation and maintenance, program/project management (including but not limited to construction management) technology transfer/insertion, training, privatization and outsourcing.

Boyken’s experience in life cycle management includes developing the master and milestone schedules, coordinating and participating in meetings, assisting in planning and coordinating public meetings, assisting in the negotiation of the A/E contract, implementing and maintaining the project controls throughout the life of the project and facilities maintenance planning.

Boyken’s services include monitoring and managing design through both conceptual and detailed design, value engineering, services and equipment procurement, cost estimating (including development of the conceptual and baseline construction cost estimates), project scheduling (including development of the Summary Master Schedule), establishment and maintenance of project controls throughout performance, and technical supervision of construction activities.

Once in the field, Boyken International provides full-time monitoring, processes all pay applications and change order requests, completely documents the project, and verifies that work is being performed in accordance with project requirements. During the design phase, Boyken International performs various design and constructability reviews and makes recommendations to minimize scheduling and budget concerns.



SIN 871-7 Construction Management Services

Construction Management Services is a professional services discipline applied to the planning, design and construction process of capital improvement projects. As a provider of professional services to customer agencies, the Construction Manager organizes the effort, develops the management plan, monitors participants' progress against the plan and identifies the necessary actions to be taken in the event of deviance from the plan. Construction Managers apply and integrate comprehensive project controls to manage the critical issues of time, scope, cost and quality. The Construction Manager also provides expert advice in support of the customer agency's decisions in the implementation of the project. The following are some of the tasks to be covered under Construction Management:

Project Design Phase Services: Design technical reviews; code compliance reviews; constructability reviews; analysis of Value Engineering proposals; preparation of cost estimates (including independent check estimates); cost analysis; cost control/monitoring; energy studies; utility studies; site investigations; site surveys; scheduling (including preparation of schedules and schedule reviews); review of design scope changes (including analysis of schedule impact); scheduling/conducting/documenting design related meetings; and performing market studies (material availability, contractor interest, etc.).

Project Procurement Phase Services: Provide assistance to the Contracting Officer in contract procurement; answer bid/RFP questions; participate in site visits; participate in pre-bid conferences; prepare and issue solicitation amendments for review and approval by the Government Contracting Officer; and performing cost/bid/proposal analysis.

Project Construction Phase Services: Establish temporary field offices; set up job files, working folders, and record keeping systems; maintain organized construction files; scheduling and conducting preconstruction meetings; documenting actions taken and decisions made, etc.; monitor the submittal review process; review and monitoring of project schedules for construction progress with emphasis on milestone completion dates, phasing requirements, work flow, material deliveries, test dates, etc.; assisting in problem resolution and handling of disputed issues (including development of Government position); maintain marked up sets of project plans and specifications for future as-built drawings; perform routing inspections of construction as work proceeds, take action to identify work that does not conform to the contract requirements, and notify the contractors when work requires correction; compiling, through site inspections, list defects and omissions related to the work performed and provide these lists to the contractor for correction; review of construction contractor payment requests (including preparation of necessary forms for payment processing); monitor project financial data and budgetary cost accounting; administration of construction contract change orders (issue proposal requests, prepare cost estimates, review cost proposals, assist agency in negotiations, prepare change order packages for processing); scheduling, conducting, and document regular progress meetings with all interested parties to review project

status, discuss problems, and resolve issues; scheduling, conducting, and documenting (prepare minutes, etc. for distribution) construction related project meetings; monitor construction contractor compliance with established safety standards (note and report unsafe working conditions, failures to adhere to safety plan required by construction contract); Monitor construction contractor compliance with contract labor standards; coordination of construction activities with customer Managers and occupying agency personnel; monitor the design and construction clarification process and, when appropriate, remind the A/E and other parties involved of the need for timely actions; participate in all Partnering activities during construction (workshops, meetings, etc.); prepare special reports and regular project status reports; providing for progress and/or final photographs of project work; perform site surveys; provide assistance in obtaining permits; perform hazardous material assessments and monitoring of hazardous material abatement work; and provide cost estimating assistance.

Commissioning Services: These services shall include, but are not limited to, providing professional and technical expertise for start-up, calibration, and/or certification of a facility or operating systems within a facility. The CM must be able to provide any level of commissioning need from total support to specialty services. Commissioning services may require start-up planning, forecasting start-up duration, estimating start-up costs, determining start-up objectives, organizing start-up teams and team assignments, testing building system components, conducting performance tests.

Testing Services: Provide the services of an independent testing agency/laboratory to perform project specific quality control testing and inspection services. The services may include, but are not limited to, testing/inspection of soils, concrete, precast concrete connections, steel, steel decking, applied fireproofing, roofing, curtain walls/glazing, and elevator installations.

Claim Services: Provide Claims Services when and as required by the Government for specific projects. Review disputes and claims from the A&E and/or construction contractor(s) and render all assistance that the Government may require, including, but not limited to, the following: Furnishing reports with supporting information necessary to resolve disputes or defend against the claims. Preparation and assembly of appeal files. Participation in meetings or negotiations with claimants, appearance in legal proceedings, preparation of cost estimates for use in claims negotiations, preparation of risk assessments/analyses relative to claim exposures, preparation of findings of fact and any other documentation required by the Government.

Post Construction Services: Perform Post Occupancy Evaluations (POEs). Assist Agency in the formation of lessons learned, provide occupancy planning including development of move schedules, cost estimates, inventory lists, etc. Provide move coordination, relocation assistance, and/or furniture coordination.

Labor Category Definitions

Labor Category	Definition
Principal	Program oversight. Ensures resources are available and that tasks are fully staffed with personnel, equipment and other required support. Assigns the task to the appropriate Program Manager. Bachelor’s degree or higher in an engineering or architectural field. 20 years or more of relevant experience.
Program Manager/ Senior Project Manager	Provides business, technical and personnel management across a major single project or multiple projects involving multi-disciplinary and diverse functional activities, subordinate groups of technical and administrative personnel. Bachelor’s degree or higher in an engineering or architectural field. 15 or more years relevant experience.
Project Manager	Provides business, technical, and personnel management and coordination for individual projects. Provides comprehensive definition of all technical aspects of project requirement. Program development, analysis of program mission, goals, and objectives. Bachelor’s degree or higher in an engineering or architectural field. 10 or more years relevant experience.
Assistant Project Manager	Supports the Project Manager. Gathers data and performs basic analysis of the gathered information. Bachelor’s degree or higher in a technical field. 3 or more years relevant experience.
Senior Engineer/ Architect Consultant	Provides leadership developing complex technical solutions for planning and engineering studies and analysis. Plans project coordination and management. Provides comprehensive definition of all technical aspects of project requirements within engineering disciplines. Knowledgeable of local and national codes. Performs evaluation of alternatives and assessments of risks and costs as well as investigative engineering. Bachelor’s degree in an Engineering/ Architectural field. 10 years of relevant experience.

Labor Category Definitions

Labor Category	Definition
Project Engineer/ Architect Consultant	Provides leadership developing basic technical solutions for planning and engineering studies and analysis. Reviews organizations' functions, interrelationships and program requirements. Provides space utilization planning, functional relationships and office layout. Supports the Project Manager or Senior Engineer/ Architect. Bachelor's degree in an Engineering/ Architectural field. At least 2 years of relevant experience.
Junior Engineer/ Architect	Junior Engineer/ Architect provides technical assistance in applications under the direction of more senior personnel. Usually assigned to a project as an assistant Project Manager. Requires Bachelor's degree or equivalent.
Senior Scheduler	Develops and administers overall plans/schedules for all projects, including establishment of project work breakdown structure resource and cost loading, critical path identification and management, and earned value analysis. 10 years experience in Scheduling construction is provided.
Scheduler	Provides preparation and maintenance of project schedule & resource plans in a CPM format using Primavera P3 and/or MS Project. Responsible for maintenance and updating of the project schedule from initiation to completion of a project. Provides project planning and scheduling support to project managers on various program management assignments. Two years experience scheduling construction projects using Primavera/MS Office/ Primavera Project Planner. A.S. degree in Engineering Technology or Building Construction or Architecture or related field. PMP Certification.
Senior Cost Estimator	The Senior Estimator operates in the lead role for the costing team. This person is responsible for the overall coordination of all costing projects. The goal of the Chief Estimator is to maintain and manage a costing team to achieve project goals. The Chief Estimator reports to the Vice President of Operations. Ten or more years experience as an Estimator for building construction projects. Certification as CCE/CCC or equivalent certification, prior experience supervising professional staff. Knowledge of most accepted estimating packages per client specific needs. Preferred to have a B.S. degree in Engineering, Building Construction, Architecture or related field. 10 years since B.A.

Labor Category Definitions

Labor Category	Definition
Cost Estimator	Performs construction cost estimating. Provides conceptual cost estimates during Pre-design phase. Performs quantity surveys from design documents and applies cost to quantities of materials. Identifies unusually high cost items in relation to other facilities. AA degree or equivalent. 8 years of relevant experience.
Senior Quality Control Manager	Performs audits of construction and quality control. Checks compliance to specifications, standards, and construction practices. AA degree or equivalent. 8 years of relevant experience.
Quality Control Manager	Performs audits of construction and quality control. Checks compliance to specifications, standards, and construction practices. Works under the supervision of a Senior Inspector or Project Manager. AA degree or equivalent. 4 years of relevant experience.
Senior Inspector	Performs audits of construction and quality control. Checks compliance to specifications, standards and construction practices. AA degree or equivalent. 8 years of relevant experience.
Inspector	Performs audits of construction and quality control. Checks compliance to specifications, standards and construction practices. Works under the supervision of a Senior Inspector or Project Manager. AA degree or equivalent. 4 years of relevant experience.
Clerical	Performs clerical and word processing functions including typing, word processing, data entry, filing, copying, binding, faxing and telephone switchboard. High School Diploma. 2 years experience.

Price List for Special Item Numbers 871-1, 871-2, 871-4, 871-6 and 871-7

The GSA has determined that the rates for services contained in Boyken's price list applicable to this schedule are fair and reasonable. However, the ordering office using this contract is responsible for considering the level of effort and mix of labor proposed to perform the specific task being ordered and for making a determination that the total firm-fixed price or ceiling price is fair and reasonable. The prices, terms and conditions stated apply exclusively to Professional Engineering Services (PES) within the scope of this FSS Schedule. All prices include the GSA .75% Industrial Funding Fee which Boyken forwards to GSA quarterly based on sales received under this Schedule.

Category	Unit	Hourly
Principal	Hourly	170.00
Program Manager	Hourly	115.00
Project Manager	Hourly	85.00
Assistant Project Manager	Hourly	75.00
Senior Engineer/ Architect	Hourly	115.00
Project Engineer/ Architect	Hourly	85.00
Senior Scheduler	Hourly	110.00
Scheduler	Hourly	90.00
Senior Cost Estimator	Hourly	105.00
Cost Estimator	Hourly	85.00
Senior Inspector	Hourly	110.00
Inspector	Hourly	55.00
Drafter/Clerical	Hourly	35.00
Senior Quality Control Manager	Hourly	110.00
Quality Control Manager	Hourly	85.00