

TECHNICAL PROPOSAL FOR ENGINEERING (A/E) and GENERAL CONTRACTING SERVICES cont'd.

Because innovation is synonymous with a company's growth, HUCS, in its efforts to remain competitive in the areas of QA/QC has secured membership in the American Society for Quality Control (ASQC) and has been pursuing seminars/courses in keeping with the requirements for ISO 9000 certifications. HUCS believes in being a part of that special class of supplier of services who takes pride in delivering a quality product. Such a product can only be achieved through the process of control, monitoring, and documentation. HUCS believes that the bottom line of these initiatives can only result in the following:

- (a) Cost Savings to our clients and us.
- (b) Improve Quality and Productivity
- (c) Total Quality Management (TQM) will ultimately be achieved

Partial listing of projects completed either by Consultants of the Firm, its Principal/Owner or other senior personnel recruited for employment with the firm:

- ⇒ Bridge Inspection, Rating and Rehabilitation programs for 2000 bridges throughout South Florida. This included over 50 movable bridges, all of which required 24-hour bridge tending and "on-demand" operation.
- ⇒ Bridge Inspection and Rehabilitation Design of over 150 Bridges on the Garden State Parkway, New Jersey.
- ⇒ Condition, Inspection and Rehabilitation Study of Route 21, Newark, New Jersey
- ⇒ Reinspection and Rating of 20 Bridges throughout the State of New Jersey
- ⇒ Inspection and Rating of 39 Bridges over Railroads throughout the State of New Jersey
- ⇒ Inspection and Rehabilitation Study of the Major Road Bridge over Amtrak.
- ⇒ Inspection and Rating of 12 Railroad Bridges throughout the State of New Jersey
- ⇒ Inspection, Rating and Rehabilitation Study of 21 Bridges on Routes 10 and 17, New Jersey
- ⇒ Design of 3 Miles of the Hudson-Bergen Light Rail Transit System (Line Section S-20) in Bayonne and Jersey City
- ⇒ Rehabilitation of 13 Bridges on the Cross Bronx Expressway, Bronx, New York
- ⇒ Rehabilitation, Design and Construction Support of a Bascule Span Railroad Bridge, New Jersey
- ⇒ Rehabilitation, Design and Construction Support of Seven Railroad Bridges on North Jersey Coast Line, New Jersey
- ⇒ Structural Condition Survey of ALL Structures owned by The City of New York Transit Authority, New York
- ⇒ Inspection and Rating of 70 Bridges Essex and 33 Bergen County Bridges, New Jersey
- ⇒ In-depth Inspection BRPB, Final Design and Construction Support Services for 12 Bridges over New York City DEP Watershed, New York
- ⇒ Underwater Inspection of Various Bridges, Culverts and Canal Facilities, New York
- ⇒ Rehabilitation of 6 Bridges on the Cross Westchester Expressway, Westchester County, New York

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Partial listing of projects completed either by Consultants of the Firm, its Principal/Owner or other senior personnel recruited for employment with the firm:

- ⇒ Rehabilitation of Two Tunnel/Bridge Sections on the New York City Subway, New York
- ⇒ Widening of the Long Island Expressway to Accommodate HOV Lanes from Exit 40 to 49, New York
- ⇒ Construction Inspection projects for New York State Department of Transportation and New York City Department of Transportation
- ⇒ Reconstruction of Route 9A from Battery Place to 59th Street, Manhattan, New York
- ⇒ Tunnel Design and Electrical Continuity Bonding of Four Sections of Subway in Washington, DC.
- ⇒ Design of a Berthing Facility at Marine Ocean Terminal Included Loading MI Tanks, Bayonne, New Jersey
- ⇒ Site and Structural Engineering for Six, Blast-proof, Reinforced Concrete, Missile/Ordinance Storage Facility at Earl Naval Weapons Station, Colts Neck, New York
- ⇒ SEPTA Norristown High Speed Line Curve Improvement Project in Philadelphia, Philadelphia
- ⇒ Construction Inspection Projects for the State of New Jersey Department of Transportation
- ⇒ Resurfacing of 2 Miles of Route 34 in Wall Township, New Jersey
- ⇒ Site and Structural Engineering for Seven Winter Maintenance Facilities, New Jersey
- ⇒ Site Engineering for Retail and Shipping Facility in Morristown, New Jersey
- ⇒ Site Engineering for 300 Acre Luxury Home and Golf Course Development, New Jersey
- ⇒ Site Engineering for Microwave Towers in New Jersey and New York
- ⇒ Municipal Engineering for Morristown (Town of) and Lincoln Park (Township of)
- ⇒ Site Engineering and Sub-Division Plans for Various Small Developments in New Jersey
- ⇒ Site Engineering and Utility Engineering for Three Office Complex, New Jersey
- ⇒ Remodeling of Trinity Missionary Baptist Church, Plainfield, NJ.
- ⇒ Rehabilitation of the Sprain Brook Parkway, (NB) Yonkers, NY.
- ⇒ Replacement of Timber Fender System Marine Parkway Bridge, Brooklyn, NY.
- ⇒ Construction of Steel Sheet Pile Cells (80' long), Marine Parkway Brooklyn, New York
- ⇒ Pile driving activities (80' long) - Marine Parkway Bridge, Brooklyn, New York
- ⇒ Replacement of Overhead Sign Structures, Marine Parkway Bridge, Brooklyn, NY.
- ⇒ Rehabilitation of Bridge, Piers and Pier Caps - Verranzano Bridge, Brooklyn, NY
- ⇒ Rehabilitation of Bridge (Concrete Piles, Pile Caps, Timber Fender System Walkway - Cross Bay Boulevard Bridge, Queens, NY

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- ⇒ Pile driving activities (80' long) , Marine Parkway Bridge, Brooklyn, New York
- ⇒ Underwater Construction, Inspection and Support Services, Queens, New York
- ⇒ Pavement Restoration and Miscellaneous Improvements, Lakewood, NJ.
- ⇒ Reconstruction of Belle - Meade / Griggstown Road Montgomery Twp., NJ.
- ⇒ New Jersey Turnpike Interchange Widening (Section 4F) (Construction Phase) Jamesburg, NJ.
- ⇒ New Jersey Turnpike Interchange Widening (Section 4F) (Design Phase) Edison, NJ.
- ⇒ Rehabilitation of Four Bridges and Bridge Approaches, over Rte. 9 & 70 Freehold, NJ
- ⇒ Bridge Structural Repairs Hamilton Avenue Bridge Brooklyn, NY
- ⇒ Gothals Bridge Inspection Staten Island, NY
- ⇒ Rehabilitation of Eight Bridges and Bridge Approaches on the Garden State Parkway over Pine Brook Road and West Park Avenue, Eatontown, NJ
- ⇒ Goethals Bridge Inspection Staten Island, NY.
- ⇒ LaGuardia Airport Bridges and Bridges over the Grand Central Parkway, Queens, NY.
- ⇒ NYSDOT - Staten Island Pier 7 Emergency Reconstruction, Staten Island, NY.
- ⇒ Biennial Inspection of 200 New York State Bridges, (Dutchess, Rockland and Westchester counties).
- ⇒ Bridge Construction at 63 rd. Street, NY.
- ⇒ WALK Railroad Bridge Rehabilitation Norwalk, CT.
- ⇒ Biennial Inspection of 100 Bridges and 300 Spans, Routes 3, 4, and 200, Northern, NY.
- ⇒ Preparation of design and construction plans for the following projects:
 - * Washington (DC) Subway - 1.2 mile tunnel and 1 station (cut n cover)
 - * Florida Grove Bridge, Perth Amboy, NJ. (3 span composite bridge)
 - * LOOP Parkway Bridge, Nassau County, NY. (19 span composite bridge)
 - * CBS Broadcast Center, NY, NY. (New 10 story building)
 - * N.Y.C.D.O.S Garage 7/10 NY, NY. (New 400 vehicle garage and maintenance building)
 - * N.Y.C.O.D.T. Reconstruction of Suphin Boulevard Queens, NY. (Preliminary Plans for 10 miles of city streets)
 - * Two new Gymnasiums Rikers Island, Bronx, NY.
 - * Hill Basin Pier and Bulkhead Reconstruction
 - * Reconstruction Red Hook Pool, Brooklyn, NY.
 - * Redesign of mullions at gate entrances Dodge Stadium, Los Angeles, CA.

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Accelerated Schedules

Should it become necessary to compress the project schedule, HUCS has the ability to excel on fast tract projects.

We offer innovative, efficient, and cost effective approaches to projects. We maintain state-of-the-art technical resources to handle projects quickly, meet schedules, and provide accelerated services, if necessary.

Computer/CADD Capabilities:

HUCS at present uses the **teaming process** of sub consultants to perform their CADD assignments. We maintain a state - of - art 486 Computerized system with word processing, engineering, surveying and cadd capabilities together with manuals, publications, and texts for the performance of engineering, architectural, mechanical, structural, civil and word processing assignments.

Quality Assurance/Quality Control (QA/QC)

Past Performances

- Coordination with all agencies (federal, state, county, city, utilities, etc.)
- Specifications compliance
- Excellent recording
- Materials approvals
- Timely processing of change orders
- Timely approvals of shop drawings
- Timely approvals of Contractor's requisitions for payments (estimates)
- Compliance of all FAR regulations as a Consultant and ensuring Contractor's compliance of all applicable FAR regulations
- OSHA Compliance
- Maintaining Schedules
- Conducting project meetings
- Quantities computations
- As-built drawings preparation
- Conflict resolutions
- Value Engineering preparation
- Constant monitoring of contractor's activities

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Wetlands delineation

- Wetland mitigation
- Wetland evaluation

Mining geology

- Mining Oversight
- Surface and ground water basin studies
- Computer modeling and barrier island geomorphology and Hydrogeology
- Ecological Risks Assessment studies
- Endangered Species Evaluation
- Fish and Wildlife Impact Analysis
- Hazardous Waste Site Investigation and closure
- Biodiversity Study

Asbestos Inspection Services

- Asbestos Project Design - Bid Document preparation
- Project Oversight and Coordination
- Lead Abatement
- Rodent Control
- Associated Site Services

Corrosion Engineering

- Corrosion Science
- Adhesive Bonding
- Cathodic Prevention and Protection Schemes
- Materials Evaluation
- Ultrasonic Testing to identify Structural Defects and to Determine Material Thickness
- Complete Storage Tank Management and Remedial Services (UST)
- Chemical Analysis - Soil, Groundwater, Wastewater, Sediment, Portable Water
- Leak Detection-Surface Evaluation-Tank and Pipeline Integrity
- Manufacturing/Production - Failure Analysis - Quality Control Measures - Process Improvements
- Sewer and Water Main Installation, Inspection and Testing

OTHER SERVICES:

Security Services

- Homeland Security/First Responder Services

Authorized Dealer/Agent/Reseller of :

Protective Clothing/Footwear and other safety items by Dupont
Protective Clothing/Footwear and other safety items by Draeger
Protective Clothing/Footwear and other safety items by Tingley
Protective Clothing/Footwear and other safety items by Nomex
Protective Clothing/Footwear and other safety items by Fyrepel

Suits by Trelleborg/Draeger
Bomb Suits by SRS - CANADA
Coverall /Pants/Coats by Nomex/Dupont
Coverall /Pants/Coats by Tyvex
Overbooties by Tyvex/Tingley
Emergency Response Trailers
Goggles
Radios by Motorola/Harris/Bendix/Kenmore
Chemical Agent Detectors by Smith and others.
Chemical Agent Monitors by Drager
Chemical Agent Pager by Truetech
Air Sam[pl]er by MESO System
Strip Reader by Alexeter Technology
Strip Detection by Alexeter Technology
Chemical Protection Equipment
Emergency Response Kits by Draeger/Trutech/RAE System
Disaster Contamination System by TVI Corp.
Misting System by Arizona Fog/Bay Mist Co.
Adapters by Pasternack/Uniden
Portable Biological Agent Analyzer
Chemical/Biological Gas Masks
HazMat Suits
Haz-Mat Safety Equipment
Breathing Apparatus/Respirators
Water Treatment, Testing and Inspection
Hand and Power (pneumatic) Tools by Jensen/Craftsman/SNAP-ON
Decontamination Shelter by Western Shelter/ZUMRO/TVI Corp.
Fire Fighting and Rescue Equipment
Dosimeters/Testing instrumentation by Arrow Tech/Ludlum and others
Paint - FIRERETARDANT Coating by American VAMAG Company, Inc.
Antenna by Telewave/Yagi
Cable and Connectors by Kenwood/Talley Communications/Bendix/Uniden
Microphone by Kenwood/
Multimeter by Fluke/Arrow Tech
Power supply by Astro Corp./ICT - Canada
Surge Protectors by Trip-Lite
Lightstick by Oniglow

Project close out

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Summary of facts:

HUCS team of professionals (which includes its President) has acquired a wealth of relevant experiences while employed by other firms through the years. It is these experiences combined with today's technological advances in the fields of QC/QA procedures that HUCS offers to you its client. Our services are **innovative, safe, reliable, and state-of-art** and they exceed **all applicable standards**, which are presently in force in the **Architectural, Engineering, Environmental and General Construction Industries**.