

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jan M. Harris, PE	13. ROLE IN THIS CONTRACT Project Manager & Structural Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 32	b. WITH CURRENT FIRM 14.5

15. FIRM NAME AND LOCATION <i>(City and State)</i> Liberty Engineering, PC Virginia Beach, Virginia	
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16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Master of Engineering , 1993, Old Dominion University, Norfolk, Virginia, Structural Engineering Emphasis Bachelor of Science , 1978, School of Civil and Environmental Engineering, Cornell University, Ithaca, New York	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer: VA, NC, WV, MD, PA, NY, Board Certified by the Structural Engineering Certification Board: #1704
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Harris has a diverse background in construction and design. Prior to self-employment at Liberty Engineering, he worked in both small and large consulting engineering firms and served as a commissioned officer in the US Army Corps of Engineers. He has successfully designed or managed over 250 federal design projects. He has participated in over 60 Indefinite Quantity Contracts including Structural, Civil/Structural, Mechanical/Electrical and Architectural. He has completed several federal design projects using metric units. **ASCE Fellow, NSPE Member, AISC Member, ECHR President (1996)**

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Water Pump Station Structural Improvements Virginia Beach, VA	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION <i>(if applicable)</i> 2006
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Project manager and structural engineer for improvements to nine water pump stations serving the city of Virginia Beach. Buildings were evaluated for compliance with a Virginia Beach Administrative Directive requiring that buildings essential to city services be built to resist sustained winds at the upper limit of Category 2 Hurricanes. Seven buildings were evaluated and improvements designed. New roofing provided to seven pump stations, exterior door replacement provided at nine sites. Wall and roof framing systems reinforced at five sites. Two existing generators fitted with new sound attenuating walk-in enclosures. Liberty Engineering provided full time construction inspection on this project. Construction cost of \$1,000,000.		
(1) TITLE AND LOCATION <i>(City and State)</i> Little Island Pier Improvements Virginia Beach, VA	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION <i>(if applicable)</i> 2006
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Prime Design Professional for City CIP project to extend existing fishing pier to the dune line. Design features including regarding through the dune line, curving sidewalk approach, pile supported, timber framed walkways and ramps leading to the beach and to the existing fishing pier, wood railings, fish cleaning station, site lighting, water service. Several features supporting compliance with the Americans with Disabilities Act (ADA) were incorporated into the work including appropriate ramp slopes, courtesy landing beach observation from wheelchairs, accessible fishing areas and accessible fish cleaning station. Construction cost of \$360,000		
(1) TITLE AND LOCATION <i>(City and State)</i> Harbour Centre Garage Recladding Hampton, VA	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION <i>(if applicable)</i> 2006
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Structural consulting engineer for design for removal of failing exterior, steel supported brick and block walls with precast concrete panels. Beams were reinforced and braced to accommodate a larger vehicle impact load than the original design. After the prime design firm on the project became insolvent and unable to perform its contracted services, Liberty Engineering supported the owner with construction administration services. Construction Cost \$1,400,000		
(1) TITLE AND LOCATION <i>(City and State)</i> Sports and Security Lighting: Petersburg Federal Correctional Facility, Petersburg, VA; Little Creek Naval Amphibious Base, Virginia Beach, VA National Field Hockey Training Facility, Virginia Beach, VA	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(if applicable)</i> 2005
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Designed deep drilled pier foundations for mast mounted security and sports lighting in poor soils.		
(1) TITLE AND LOCATION <i>(City and State)</i> Elizabeth River Trail Phase 3A Norfolk, Va	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010 +	CONSTRUCTION <i>(if applicable)</i> TBD
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Structural engineer for design of wood framed bridge on multiuse trail. Curved geometry provides complicated framing conditions while conforming to use agreements with adjoining property owners.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME Garold L. Moore, PE	13. ROLE IN THIS CONTRACT Structural Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 27	b. WITH CURRENT FIRM 5

15. FIRM NAME AND LOCATION (City and State)
Liberty Engineering, PC Virginia Beach, VA

16. EDUCATION (DEGREE AND SPECIALIZATION)
Graduate Studies, 1987-1989 Old Dominion University, Norfolk, Virginia, Structural Engineering, Port Design Bachelor of Science, 1983, Civil Engineering, Old Dominion University, Norfolk, Virginia

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Professional Engineer: VA, NC

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Mr. Moore is experienced in the design of steel, concrete, masonry and timber structures. He has worked for federal, industrial, state, municipal and private clients on a wide variety of new construction, renovation and repair projects. He has participated in Indefinite Quantity Design Contracts including Structural, Civil/Structural, and Civil. He has completed design projects using metric units and is familiar with federal design standards. AISC Member, ASCE member.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Water Pump Stations Goochland County, Virginia	2004	2005
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural engineering services for the construction of two water pumping stations-River Road and Centerville. Design of shallow spread footing foundations, pipe supports, pump foundations, thrust restraints, grating, masonry walls, hoist and monorail systems, pitched roof systems for two buildings. River Road Station is approximately 1500 square feet and has a construction contract cost of \$350,000. Centerville Station is approximately 3,000 square feet and has a construction contract cost of \$600,000.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Haven Creek Boat Ramp Norfolk, VA	2006	2008
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project structural engineer for a replacement boat ramp. Project includes boat ramp capable of being constructed without dewatering or cofferdams at the site, bulkheads, timber-framed pedestrian walkways and courtesy piers, floating canoe/kayak launching pier with aluminum gangway. Ramps and gangways designed for compliance with Americans with Disabilities Act (ADA). Construction Cost \$1,500,000	<input checked="" type="checkbox"/> Check if project performed with current firm	
Vacuum Sewage Pumping Station Langley AFB, VA	2006	2008
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural engineer for design of 3000 square foot vacuum type sewage lift station serving family housing area. Project includes, elevated loading dock, finish floor elevated above 100 year flood elevation and below grade, deep well vacuum tank room. Cast in place concrete foundations, masonry walls with brick veneer and precast concrete elements were incorporated into the design.	<input checked="" type="checkbox"/> Check if project performed with current firm	
High Service Water Pump Station Suffolk, VA	2003	2004
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural design services for the construction of a water pumping stations- Design of shallow spread footing foundations, pipe supports, pump foundations, thrust restraints, grating, masonry walls, hoist and monorail systems, pitched roof systems for a 3,000 square foot building. Building construction contract cost is approximately \$400,000.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Haven Creek Walking Path Norfolk, VA	2010	TBD
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural engineer for design of elevated wood walkway in support of "living shoreline" environmental restoration project. Pile supported walkway .	<input checked="" type="checkbox"/> Check if project performed with current firm	

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(Complete one Section E for each key person.)

12. NAME Benjamin J, Curtis, EIT	13. ROLE IN THIS CONTRACT Intern Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 4	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) Liberty Engineering, PC Virginia Beach, VA			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, 2005, Civil Engineering, Old Dominion University, Norfolk, Virginia		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Engineer in Training, VA	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Curtis is a young engineer with an excellent work ethic. Liberty Engineering is pleased to have this 2006 addition to our staff. Member: AISC ACI, ASCE			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	CEC Coal Unloading Project	2006	2007
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural engineering design of beam and slab components. Provides construction phase inspections of the work.		
b.	Pier F Replacement Naval Base Norfolk	2007	2007
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project structural engineer for a design-build project to replace a dilapidated timber pier with a new pier. Approximate pier size is 400 feet by 28 feet with provisions for berthing tug boats. Performed calculations for tug berthing and mooring studies as required to complete the project		
c.	21st Street Branch, Monarch Bank Norfolk, VA B	2010	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural engineer for design of a three story steel framed building		
d.	Times Call Publishing Facility Berthoud, Colorado	2008	2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural design of a 30,000 square foot newspaper printing facility. Project included two story office space, high bay press room with crane and drilled pier press foundations, warehouse newsprint storage, mail room and truck loading facilities. Steel framed with combination of masonry and lightgauge steel framed walls.		
e.	Captain D's 21st Street Norfolk, VA	2006	2007
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provided structural engineering to replace poorly performing solarium with conventionally framed wood walls and roof.		

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME LIBERTY ENGINEERING, PC			3. YEAR ESTABLISHED 1995	4. DUNS NUMBER 94-131-7844
2b. STREET 4521 E Honeygrove Rd. Suite 108			5. OWNERSHIP	
2c. CITY Virginia Beach			a. TYPE Corporation	
2d. STATE VA	2e. ZIP CODE 23455		b. SMALL BUSINESS STATUS Yes Veteran Owned	
6a. POINT OF CONTACT NAME AND TITLE Jan M. Harris, PE, President			7. NAME OF FIRM (if block 2a is branch office)	
6b. TELEPHONE NUMBER (757) 499-2791		6c. E-MAIL ADDRESS jan@libertyeng.net		
8a. FORMER FIRM NAME(S) (if any) NA			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	1	1	B02	Bridges	1
08	CADD Technician	2	2	C06	Churches, Chapels	1
57	Structural Engineer	3	3	C10	Commercial Buildings (low rise)	1
				C12	Communications Systems; TV Microwave	1
				D07	Dining Halls; Clubs, Restaurants	1
				F02	Field Houses; Gyms Stadiums	1
				F05	Forensic Engineering	1
				G01	Garages; Vehicle Maintenance Facilities; Parking Decks	1
				H01	Harbors; Jetties; Piers, Ship Terminal Facilities	1
				I01	Industrial Buildings; Manufacturing Plants	1
				L06	Lighting (Exteriors; Streets, Airfield Athletic Fields)	1
				O01	Office Parks, Industrial Parks	1
				R04	Recreation Facilities (Parks, Marinas, etc.)	1
				S03	Seismic Designs and Studies	1
				S04	Sewage Collection, Treatment and Disposal	1
				S05	Soils & Geologic Studies, Foundations	1
				S09	Structural Design; Special Structures	1
				S13	Storm Water Handling & Facilities	1
				T05	Towers (Self Supporting & Guyed Systems)	1
				W01	Warehouses & Depots	1
				W03	Water Supply Treatment & Distribution	1
				W04	Wind Tunnels; Research/Testing Facility Design	1
Total		6	6			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	1	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	
b. Non-Federal Work	2	2. \$100,000 to less than \$250,000	8. \$10 million to less than \$25 million		
c. Total Work	3	3. \$250,000 to less than \$500,000	9. \$25 million to less than \$50 million		
		4. \$500,000 to less than \$1 million	10. \$50 million or greater		
		5. \$1 million to less than \$2 million			

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE July 9, 2010
c. NAME AND TITLE Jan M. Harris, PE, President	

Block H :

Liberty Engineering is a professional corporation licensed in accordance with the laws of the Commonwealth of Virginia to provide professional engineering and architectural services. Jan M. Harris, PE founded the firm in 1995 to provide structural engineering design services. Mr. Harris has over 28 years of experience in design and construction. Liberty Engineering can assign up to three design professionals and two technicians to our design projects. We are specialists in the design and evaluation of structural systems for foundations, buildings, bridges and public or industrial infrastructure made of wood, steel, aluminum, masonry and concrete

Liberty Engineering serves a diverse clientele including private and government facility owners, architects, consulting engineers, general contractors and specialty contractors. Our specialty contractor clients include communications equipment suppliers, structural steel fabricators, manufacturers of canopies and awnings, glazing contractors, light gage cold-rolled steel installation contractors and masons. We take pride in our ability to successfully work with clients from the entire breadth of the facilities design, management and construction industries.

Liberty Engineering maintains a modern, fully equipped office in the heart of Virginia Beach. State of the art computer, fax, printing and telephone systems allow for efficient, high quality service. Liberty Engineering is available on the internet. Visit our website: www.LibertyEng.net. In addition to word processing, spreadsheet and accounting software, we have software for computer aided design and drafting. The firm has the latest releases of IES Visual Analysis, AutoCAD 2011 Revit Structural Suite 2011. Visual Analysis is a structural analysis program. AutoCAD is a popular computer aided drawing program. Revit Structural Suite assists with Building Information Modelling (BIM) Liberty Engineering is a member of the Hampton Roads Chamber of Commerce and the Builders and Contractors Exchange. The firm has certificates of authority to perform engineering work in Virginia, North Carolina, West Virginia, Delaware, Colorado and New York.

Our staff is committed to continual improvement of our services. We remain abreast of current issues in engineering by actively participating in continuing education efforts, local and national professional societies, by corresponding with design and construction professionals worldwide via internet interest groups sponsored by engineering societies and private individuals, and by pursuing appropriate professional development opportunities.

AWARDS And Quality Of Past Performance On Similar Projects:

Liberty Engineering received numerous high marks for its work on the Fort Monroe Marina. The Design-Build Team earned an "Above Average Performance Rating" from the Norfolk District Corps of Engineers. The design team contributed by garnering "Outstanding" ratings for the performance elements: Cooperation and Responsiveness; As-Built; "Above Average" ratings were received for elements related to Quality of Design, Submittals, Management, Coordination, Professional Conduct, and Timely Performance. No elements of the evaluation were rated as less than "Satisfactory".

The Virginia Beach Planning Commission cited the Lynnhaven Boat Ramp project as the outstanding municipal project of 2003. The project also was cited by the Virginian Pilot as runner-up municipal improvement in their annual "Best of the Beach" Awards.