

PROFESSIONAL ENGINEERING EXPERIENCE

<u>DUTIES</u>	<u>YRS</u>	<u>DESCRIPTION</u>
Staff Engineer	2	Responsible for renovation projects within the 100-acre facility
Project Engineer	5	Project section leader in design & construction of facility projects
Facility Manager	3	Provide direct supervision of all plant engineering support service
Project Manager	6	Manage complex technical projects for business expansions
Principle Engineer	5	Responsible for all phases of typical civil engineering projects
Regional Planner	4	Completed studies, reports, and cost estimates for various programs
	25	Total years of Professional Engineering Experience

REGIONAL PLANNING EXPERIENCE

REGION 2000 Local Government Council:

Regional Water Supply Planning Grant Proposal
 Community Water and Sewer Needs Study
 Community Water Rate Study for the Town of Brookneal
 Joint Water Supply Planning Project for Town of Appomattox and Appomattox County
 TEA-21 Enhancement Grant Cost Estimates for the Town of Amherst
 Rural Transportation Planning Grant Application for Town of Appomattox
 TEA-21 Enhancement Grant Applications for Altavista, Appomattox, Campbell County, & Brookneal
 Region 2000 Signage Study, Phase II for the CVMPO
 VDOT Ships Database Update
 VDEQ Waste Tire Final Report

PROJECT MANAGEMENT EXPERIENCE

TOTAL PROJECT VALUATION:

Facility Renovations	VA / CH	Medical Center Departments	\$15M
Major Construction	VA / CH	Medical Center Complexes	\$90M
Minor Construction	Ericsson	Production/ Office Complexes	\$10M

NEW CONSTRUCTION EXPERIENCE:

1995-1996	200,000 SF	Production/Office Facility	\$10M
1991-1995	500,000 SF	Medical Center Addition	\$40M
1988-1991	600,000 SF	Medical Center Additions	\$50M

RENOVATION EXPERIENCE:

1981-1988	Site Utilities & Parking Facilities	\$ 1M
	Fire Protection Systems	\$ 1M
	Hazardous Waste Disposal	\$ 2M
	Composite Building & Structures	\$ 2M
	Medical Equipment Systems	\$ 3M
	Building Service Equipment Systems	\$ 3M
	Computer & Communication Systems	\$ 3M

PROFESSIONAL ENGINEERING STUDIES AND REPORTS

WATER SYSTEM STUDIES:

ACSA /Sweet Briar College - Potable Water System Interconnection Study
ACSA - H. L. Lanum Water Treatment Pump Station Pump & Motor Study
ACSA - H. L. Lanum Raw Water Pump Station Pump & Motor Study
ACSA - H. L. Lanum Water Treatment Pump Station Raw Water Intake Study
Montpelier - Existing & Future Potable Well Water System Study
Montpelier - Existing & Future Fire Suppression System Study

WATER SYSTEM COMPUTER MODELING:

ACSA - CYBERNET Water Distribution System Study
ACSA - WATERCAD Water Distribution System Steady State Simulation
ACSA - WATERCAD Water Distribution System Extended Period Simulation
CCUSA - WATERCAD Water Distribution Interconnection Evaluation

SANITARY SEWER STUDIES:

Amherst/ACSA - Sanitary Sewer Interconnection Study
Appomattox - Meadowlark Subdivision Sanitary Sewer Extension
ACSA – Sanitary Sewage Pump Station Pump & Motor Study
Montpelier - Existing & Future Sanitary Sewer System Study
Appomattox - New 0.30 SBR W/W Treatment Plant Upgrade

PRELIMINARY ENGINEERING REPORTS

Brookneal - Brooke Street Water, Sewer & Street Upgrade (CBDG Grant Application)
Appomattox - Meadowlark Subdivision (CBDG Grant Application)
Halifax/South Boston – Future Industrial Park
Amherst County - Dillard Industrial Park Extension
Amherst County – Future Amelon Industrial Park
Appomattox County IDA – Future 575 Acre Industrial Park
Appomattox - New 0.30 SBR W/W Treatment Plant Upgrade

ENVIRONMENTAL ENGINEERING REPORTS:

ACSA - Facility Energy Audit
Marvin Templeton & Sons @ Mt. Athos – Storm Water Prevention Plan with SPCC & ODCP
Brookneal - Brooke Street ERR
Appomattox - Meadowlark Subdivision ERR
Appomattox County IDA –Industrial Park ERR
Appomattox - W/W Treatment Plant ERR

WATER SYSTEM DESIGN PROJECTS:

Huber Industrial Plant - Well Water & Distribution system
Halifax - Potable Water 8 inch DI Class 50 System Extension
CCUSA - Cresthaven, Alum Springs, & Waterlick Commons 12 inch DI Class 50 System Extensions
ACSA - H. L. Lanum Water Treatment Plant Filter Table & Turbidimeter Upgrade
ACSA - H. L. Lanum Water Treatment Plant Raw Water Pump # 2 Replacement

SANITARY/STORM SEWER DESIGN PROJECTS:

Virginia Fiber - Mass Drainfield & Forced Main Extension
Halifax - Gravity Sewer Main Extension
Clays Crossing Drainage Ditch - Phase 2

VPDES PERMIT APPLICATION PROJECTS:

Town of Appomattox – Modification for new 0.30 SBR W/W Treatment Plant (vdeq model simulations)
Town of Appomattox – Reissuance for existing 0.17 Trickling Filter Sewage Treatment Plant

CIVIL SITE PLAN PROJECTS:

Amherst County - Court House Addition
Winfield - Storage Inn Facility
Hartless - Storage Inn Facility
Lynchburg - Clay Street Parking Deck
Oak Ridge Toyota - Parking Lot
First National Bank of Altavista – Addition
Appomattox County - Stone Container Site
Appomattox County - Rt. 648 Waste container Site for
Blue Ridge Regional Jail Authority - Bedford, Campbell, Halifax Additions
McBride - Chiropractor Office
Rite Aid - Lebanon, Marion, Cobern, Abingdon Stores
Lynchburg General Hospital - Master Plan Update
Centra Health Corp Office - Parking Lot Expansion
Alliance Industrial Corporation - 45,000 sf addition
Sandrof Auto - Shop & Parking Lot Addition
The Wooden Chair - Building

GEOTECHNICAL EVALUATION PROJECTS:

Timberlake Dam - Slope Stability Study
Centra Health - Parking Lot Fill Slope Stability
Wilson Resident - Active/Passive Earth Pressure Calculations
Yokohama - Active/Passive Earth Pressure Calculations
Longwood College - Active/Passive Earth Pressure Calculations
Peakview - Active/Passive Earth Pressure Calculations

PLANT ENGINEERING STUDIES AND REPORTS

PLANT ENGINEERING PROJECTS:

Appomattox County – Solid Waste Baler Design
ACSA – H. L. Lanum WTP Mechanical System Upgrade
ACSA - H. L. Lanum WTP Window & Door Replacement
ACSA - H. L. Lanum WTP Heat Pump System Upgrade
Clover - Water System Pressure Switch Evaluation
Brookneal - WTP Filter/Chlorine Equip Replacement
Tri-Tech Labs - Pressure Vessel Evaluation

FACILITY ENERGY AUDIT PROJECTS:

ACSA - Facility Audit @ 8,000 sf
Guggenheimer - Facility Audit @100,000 sf
Nursing Dormitory - Lighting Audit @ 25,000 sf
LGH - Waste Stream Audit @ 250,000sf
LGH - HAZMAT Audit @250,000 sf
LGH - Power Plant Audit @250,000 sf
LGH - Solid Waste Audit @250,000 sf
Gov't - Residential Housing Audit @ 50,000 sf
Gov't Hospital - Energy Audit @300,000 sf

Gov't Hospital - Power Plant Audit @170,000 sf
Gov't Hospital Window Audit @170,000 sf

MAJOR CONSTRUCTION MANAGEMENT PROJECTS:

Electronic Production/Office Addition @ 200,000 sf
Private Medical Center Addition @ 500,000 sf
Gov't Medical Center Addition @ 600,000 sf

RENOVATION MANAGEMENT PROJECTS:

Hospital Site Utilities
Hospital Parking Facilities
Hospital Fire Protection Systems
Hospital Hazardous Waste Disposal
Medical Treatment Systems
Hospital Building Service Equipment
Hospital Computer Systems
Hospital Communication Systems
Composite Buildings & Structures
Blue Ridge Regional Jails (Civil Plans for four jail sites)