



REDACTED VERSION

Colonial Behavioral Health

Loughridge & Company LLC

Response to (PPEA) Request for Conceptual Phase PPEA
Proposal Number A240325

for Crisis Services Center

July 17, 2024

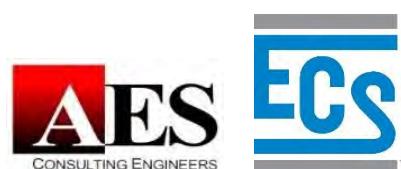


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- Structural Engineer: Dunbar
- Mechanical, Electrical & Fire Protection: New Ridge Engineering
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- Interiors: KSA Interiors

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July 16, 2024

RE: Colonial Behavioral Health – Crisis Services Center

Dear Selection Committee:

First and foremost, on behalf of the entire Loughridge Team, I would like to thank you for your willingness to review our qualifications and concepts for this landmark opportunity to further the Colonial Behavioral Health's Mission. We are excited for the potential opportunity to join your Team for this exciting redevelopment opportunity and thank you for inviting us to participate. We are honored that you would consider placing your trust in Loughridge & Company. We take that very seriously and will not let you down in guiding the process from now to well beyond final occupancy should you choose to give us the opportunity.

The successive pages will outline the structure, composition, and credentials of our Team and culminate in an outline of the design concepts centered on our current thought. We are problem solvers that enjoy challenges and our talent and experience with projects of this nature is unmatched.

We at Loughridge take a lot of pride in the relationships we build with our clients. We do not plan for a single project relationship, but rather a lasting one that will stand the test of time. We will be here for you not only to handle your construction needs of this project, but also focus on remaining your partner well into the future for any further needs that may arise. It is for this reason that we always believe in going the extra mile to gain your trust and appreciation. We will hold your hand through each and every decision necessary from start to finish and we can be intimately involved to whatever level you so choose.

We feel that our vast history of building schools coupled with our steadfast approach of being a contractor that is easy to work with, which goes above and beyond for our clients, puts us in the best position to handle your needs. In the last 10 years alone, we have completed 15 medical services buildings throughout the Virginia area. Specifically, we completed the 30,000 square foot Henrico Mental Health Clinic five years ago which is very similar to the project you are proposing. Simply put, we know how to build, keep the job on schedule and in budget, with any architect. We encourage you to reach out to our past clients for honest feedback on our performance. Please see attached references for your use.



We are committed to representing Colonial Behavioral Health with distinction. We hope this proposal package will meet your needs at this time and give you sufficient criteria to assist in evaluating Loughridge & Company as your proposed partner for the project.

That said, should you have any questions or need anything further, please feel free to let us know. Again, we greatly appreciate the opportunity and I sincerely hope we can move forward to joining your team officially as your chosen General Contractor.

Sincerely,

Loughridge & Company LLC

A handwritten signature in blue ink that reads "Worth Bugg".

Worth Bugg
Vice-President



Loughridge & Company LLC maintains a diverse portfolio of both negotiated and competitive bid projects. We have the financials and the proven ability to manage a full range of projects, including large scale, utilizing the latest project delivery technologies. We are based in Richmond, Virginia and we are locally owned.

As a certified small business, customers appreciate the intimate, boutique approach to our project delivery. A personalized, hands on approach guides our customer service.

Loughridge & Company LLC was founded by Bill Loughridge in 2005. Bill is a forty-seven-year construction industry veteran who graduated from Virginia Military Institute with a BS in Civil Engineering. He managed millions of square feet of construction across all sectors of the market.

On February 5, 2019, Bill sold Loughridge & Company to three of his employees, who are now our company officers, Kevin Jones, President, Worth Bugg, Vice President and Steve Seal, General Superintendent. Bill continues to be available as a mentor and consultant.

We are proud that all of our employees remain with the Loughridge team. In 2022, we were awarded the Virginia Business Best Places to Work.

Loughridge & Company LLC is organized as a Limited Liability Company under the law of the Commonwealth of Virginia. Our company was formed on November 9, 2005. We are a Commonwealth of Virginia certified Small Business, with Certificate Number 688391 and we hold a Commonwealth of Virginia Class A License number 2705100856 in Commercial and Residential Construction. Kevin Jones, President is our designated employee and responsible manager for this license.

Contact information for our company officers is as follows:

Loughridge & Company LLC
5001 West Leigh Street
Richmond, VA 23230

Kevin Jones, President Email: kjones@loughridgeconstruction.com
Direct Dial: (804)237-1303 Mobile: (804)615-9037

Wadsworth Bugg, IV, Vice President Email: wbugg@loughridgeconstruction.com
Direct Dial: (804)237-1306 Mobile: (804)400-5630

Steve Seal, General Superintendent Email: sseal.loughridge@gmail.com
Mobile: (804)380-7122

LOUGHRIDGE & COMPANY LLC-SELECT PAST PROJECTS OF INTEREST-July 17, 2024-PAGE 1

| <u>PROJECT/DESCRIPTION</u> | <u>OWNER</u> | <u>ARCHITECT</u> | <u>CONTRACT AMOUNT</u> | <u>DATE OF COMPLETION</u> |
|--|---|--|------------------------|---------------------------|
| Taylor Farm Park Sandston, VA | County of Henrico P. O. Box 90775 Henrico, VA 23273 Contact: Steve Hart Phone: (804)501-5117 | Architectural Consultant to Timmons: Worley Associates Architects 908 N. Thompson Street Richmond, VA 23230 Contact: William Loving Phone: (804)353-2635 | \$21,531,497.18 | July 3, 2024 |
| Swift Creek Family YMCA New Fitness Facility Chesterfield, VA | YMCA of Greater Richmond 2 West Franklin Street Richmond, VA 23220 Contact: Mr. Randy Spears, Sr. Phone: (804)649-9622 | Worley Associates Architects 908 N. Thompson Street Richmond, VA 23230 Contact: Mr. Ronald Worley Phone: (804)353-0466 | \$8,432,000.00 | August 31, 2012 |
| Henrico Area Mental Health and Developmental Services East Clinic Henrico, VA 23223 | County of Henrico, Virginia General Services P. O. Box 90775 Henrico, Virginia 23273-0775 Contact: Jason Takacs, P.E. Phone: (804)501-5953 | Moseley Architects 3200 Norfolk Street Richmond, Virginia 23230 Contact: Bill Clancy Phone: (804)794-7555 | \$7,146,843.12 | May 24, 2019 |
| UVA Physicians Group Zion Crossroads -New Health Clinic Zion Crossroads, VA | UVA Physicians Group 500 Ray C. Hunt Drive Charlottesville, VA 22903 Contact: Mr. Nat Perkins Phone: (434)531-7387 | Baskerville 101 S. 15 th St., Ste. 200 Richmond, VA 23219 Contact: Mr. Bruce Brooks Phone: (804)343-1010 Fax: (804)343-0909 | \$8,006,146.53 | July 12, 2012 |
| UVA Health Services Foundation Long Term Acute Care Hospital @ Northridge Charlottesville, Virginia | UVA Health Services Fdn. The Blake Center 1st Floor, P.O. Box 800799 Charlottesville, VA 22903 Contact: Mr. Tom Harkins Phone: (434)243-9574 | Frederick & Associates 330 S. Pineapple Ave. Suite 204 Sarasota, FL 34236 Contact: Mr. Fred Frederick Phone: (941)366-3231 | \$19,370,819.89 | July 23, 2010 |
| UPG Riverside Renovation of UPG Pain Management Clinic and Expansion of UPG Primary Care Charlottesville, VA | UVA Physicians Group 4105 Lewis & Clark Drive Charlottesville, VA 22911 Contact: Gary Lowe Phone: (434)297-5416 | Price, Simpson, Harvey 207 N. Foushee Street Richmond, VA 23220 Contact: Matthew Simpson Phone: (804)823-2900 | \$1,009,000.00 | August 31, 2020 |

LOUGHridge & COMPANY LLC-SELECT PAST PROJECTS OF INTEREST-July 17, 2024-PAGE 2

| <u>PROJECT/DESCRIPTION</u> | <u>OWNER</u> | <u>ARCHITECT</u> | <u>CONTRACT AMOUNT</u> | <u>DATE OF COMPLETION</u> |
|---|---|--|------------------------|---------------------------|
| MWHC Embrey Mill Building 6 Interior Medical Space Build Out Fredericksburg, VA | Medicorp Properties, Inc. 435 Hunter Street Fredericksburg, VA 22401 Contact: Kyle Kaeser Phone: (540)741-7435 | Price Simpson Harvey 207 N. Foushee St. Richmond, VA 23220 Contact: Matt Simpson Phone: (804)823-2900 | \$4,591,412.24 | April 12, 2024 |
| Mary Washington Healthcare GME Internal Residency Renovation Fredericksburg, VA | Medicorp Properties, Inc. 435 Hunter Street Fredericksburg, VA 22401 Contact: Kyle Kaeser Phone: (540)741-7435 | Environments for Health Architecture 14291 Park Meadow Dr., Ste. 300 Chantilly, VA 20151 Contact: Al Winchester Phone: (703)378-1864 | \$2,965,843.00 | October 13, 2023 |
| Mary Washington Healthcare Urgent Care & Physical Renovation Therapy Renovation Fredericksburg, VA | Medicorp Properties, Inc. 435 Hunter Street Fredericksburg, VA 22401 Contact: Kyle Kaeser Phone: (540)741-7435 | Price Simpson Harvey 207 N. Foushee St. Richmond, VA 23220 Contact: Matt Simpson Phone: (804)823-2900 | \$2,405,000.00 | May 24, 2023 |
| Mary Washington Healthcare GME Family Care Renovation Fredericksburg, VA | Medicorp Properties, Inc. 2300 Fall Hill Ave., Ste.206 Fredericksburg, VA 22401 Contact: Kyle Kaeser Phone: (540)741-7435 | Price Simpson Harvey 207 N. Foushee St. Richmond, VA 23220 Contact: Matt Simpson Phone: (804)823-2900 | \$4,012,795.00 | May 4, 2023 |
| Encompass Health Rehabilitation Hospital of Richmond, 16 Bed Addition & Refresh Richmond, VA | Encompass Health 9001 Liberty Parkway Birmingham, AL 35242 Contact: Alan Walker Phone: (205)970-5951 | Frederick & Associates Architects 330 S. Pineapple Ave., Ste. 204 Sarasota, FL 24236 Contact: Fred Frederick Phone: (941)366-3231 | \$8,693,709.97 | April 16, 2021 |
| HealthSouth Rehabilitation Hospital of Fredericksburg-6 Bed Addition Fredericksburg, VA | HealthSouth Corporation 3660 Grandview Parkway Suite 200 Birmingham, AL 35243 Contact: Elizabeth Mann Phone: (205)970-7850 Fax: (205)969-6158 | Frederick & Associates- Architects, Inc. 330 S. Pineapple Ave., Suite 204 Sarasota, FL 34236 Contact: Fred Frederick Phone: (941)366-3231, ext. 302 Fax: (941)366-3245 | \$1,750,460.00 | July 25, 2017 |

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| <u>PROJECT/DESCRIPTION</u> | <u>OWNER</u> | <u>ARCHITECT</u> | <u>CONTRACT AMOUNT</u> | <u>DATE OF COMPLETION</u> |
|---|---|---|------------------------|---------------------------|
| HealthSouth Rehabilitation Hospital of Petersburg-14 Bed Addition Petersburg, VA | HealthSouth Corporation 3660 Grandview Parkway Suite 200 Birmingham, AL 35243 Contact: Elizabeth Mann Phone: (205)970-7850 | Frederick & Associates-Architects, Inc. 330 S. Pineapple Ave., Suite 204 Sarasota, FL 34236 Contact: Fred Frederick Phone: (941)366-3231, ext. 302 | \$3,779,883.00 | January 22, 2014 |
| Bon Secours Richmond Health System Community Hospice House Midlothian, Virginia | Bon Secours Richmond Health System 5875 Bremo Road, Ste. 306 Richmond, VA 23226 Contact: Ms. Diane Smith Phone: (804)627-5360 | Balzer and Associates 15871 City View Drive Suite 200 Midlothian, VA 23113 Contact: Mr. Mike Bricker Phone: (804)794-0571 | \$5,997,992.00 | June 17, 2015 |
| Essex High School Renovations and Additions Tappahannock, VA | Essex County Public Schools 109 N. Cross Street Tappahannock, VA 22560 Contact: Dr. Scott Burckbuchler Phone: (804)443-4366 Fax: (804)443-4498 | Ballou Justice Upton Architects 2402 N. Parham Road Richmond, VA 23229 Contact: Mr. Eddie Evans Phone: (804)270-0909 Fax: (804)346-3301 | \$18,115,772.51 | September 2, 2014 |
| Hamilton-Holmes Middle School Additions & Renovations King William, Virginia | King William County Public Schools 18444 King William Road King William, VA 23086 Contact: Dr. David O. White Phone: (804)769-3434 Fax: (804)769-4520 | Ballou Justice Upton Architects 2402 N. Parham Road Richmond, VA 23229 Contact: Mr. Eddie F. Evans, Jr. Phone: (804)270-0909 Fax: (804)346-3301 | \$11,345,273.37 | August 30, 2019 |
| Syd Thrift Athletic Complex Athletic Fields Middlesex High School Saluda, Virginia | Middlesex County Public Schools 2911 General Puller Highway Saluda, Virginia 23149 Contact: Dr. Thomas W. Taylor Phone: (804)758-2277 Fax: (804)758-3727 | Bay Design Group 14833 George Washington Memorial Highway Glenns, Virginia 23149 Contact: Mr. Gordon Jones Phone: (804)693-5596 Fax: (804)758-5920 | \$2,888,928.00 | June 24, 2014 |



Mary Washington Healthcare Embrey Mill Building #6

Owner: Mary Washington Healthcare

Address: 2300 Fall Hill Ave, Suite 206
Fredericksburg, VA 22401

Contact: Patrick Morris
(540) 690-4460

Architect: Price Simpson Harvey +

Address: 207 North Foushee Street,
Richmond, VA 23220

Contact: Rachel Thompson
(804) 387-0168

Address: 955 Wonder Road
Stafford, VA 22554

Square Feet: 20,043

Value: \$4,553,682

Completion: May 1, 2024

Project Features:

Interior buildout of Embrey Mill Building #6, which was divided into five independent spaces with shared support staff areas. The five areas included Physical Therapy, Urgent Care, Laboratory, Imaging (X-ray, Mammogram, Ultrasound), and Primary Care/Obstetrics/Gynecology.





Encompass Health Rehabilitation Hospital of Richmond

Owner: Encompass Health
Address: 9001 Liberty Parkway
Birmingham, Alabama 35242
Contact: Mr. Alan Walker
205-970-5951

Architect: Frederick & Associates Architects
Address: 330 South Pineapple Ave., Suite 204
Sarasota, Florida 34236
Contact: Mr. Fred Frederick
941-366-3231

Address: 5700 Fitzhugh Ave.
Richmond, VA 23226
Square Feet: 73,010
Value: \$8,721,200
Completion: April 19, 2021

Project Features:

Construction of a \$8.71MM, 11,070 sf 16 bed hospital expansion with 61,940 sf of refresh to the existing facility. The building addition is one story construction of brick exterior on steel stud wall with steel roof framing. Sitework, landscaping, finishes, mechanical, electrical plumbing and fire protection systems are included.



Henrico County Mental Health and Development Services East Clinic

| | | | | | |
|-----------------|--|-------------------|---|---------------------|--|
| Owner: | County of Henrico, Virginia Henrico County General Services | Architect: | Moseley Architects | Address: | 3908 Nine Mile Road Henrico, VA 23223 |
| Address: | 4301 E. Parham Road, P. O. Box 90775 Henrico, VA 23273 | Address: | 3200 Norfolk Street Richmond, VA 23230 | Square Feet: | 30,000 |
| Contact: | Mr. Jason Takacs 804-501-5953 | Contact: | Mr. Bill Clancy 804-794-7555 | Value: | \$7,171,855.51 |

Completion: May 24, 2019

Project Features:

Construction of a new 30,000 square foot one story clinic. The work consists of a steel framed structure, low sloped roof with single ply membrane construction with gutters and downspouts for drainage, glazing, roof mounted mechanical units with unit mounted screens, skylights, a pre-manufactured canopy at the building entrance, sitework including clearing, demolition of existing house and wells, grading, underground storm water retention, paving, landscaping, and utility improvements. New mechanical, electrical and plumbing systems are also included. The Project was designed to comply with a Silver Certification Level according to the U.S. Green Building Council's Leadership in Energy & Environmental Design (LEED) Rating System and actually earned LEED Gold certification from the GBCI.



WORTH BUGG

Vice President/Owner

Worth has seventeen years of building construction experience and is a LEED Accredited Professional with specialties in Business Development and Construction. He recently completed the new Moseley Elementary School in Chesterfield County, the Dominion Luxury Car Condominiums project at Dominion Raceway in Spotsylvania, Virginia and the new St. Michael's Episcopal School-Assembly Commons Building in Richmond, Virginia. He is currently managing multiple projects for the Mary Washington Healthcare System.

CIVIC INVOLVEMENT

- Cystic Fibrosis Foundation Richmond Board
- 2019-2020 President of the Cystic Fibrosis Foundation Young Professionals Leadership Council
- 2018 Richmond's Finest Honoree for Cystic Fibrosis Foundation
- Past Head Coach and Board Member of Warriors Youth Lacrosse
- 2014-2015 Chairman of the Massey Cancer Center Challenge
- 2014 VMI Club of Richmond Member Massey Challenge Committee

RELEVANT EXPERIENCE

Medical Facilities:

- UPG Riverside Pain Management Expansion
- UPG Primary Care Renovation
- HCA Central Plant
- HealthSouth Fredericksburg Addition
- HealthSouth Richmond ADA Upgrades
- MWHC GME Family Care
- MWHC Urgent Care-Physical Therapy
- MWHC GME Internal Medicine
- MWHC Embrey Mill Building #6

Commercial & Fitness:

- Stafford County Indoor Recreation Facility @ Embrey Mill
- King George County Sealston Sports Complex, Phase II
- Taylor Farm Park

Commercial, Retail & Office:

- Horner Park Maintenance Shop & Access Road
- The Shops at White Oak Village
- 2101 N. Hamilton Street
- 106 Juliad Court Tenant Upfit
- Aldi Grocery Store-Williamsburg
- Virginia Child Care
- Cloverleaf Office Park
- ESI Tenant Upfit
- Philip Morris Main Campus-East Wing & Plant and Cofer Road Interior Office Addition



EDUCATION

BA Business and Economics

*Virginia Military Institute
2007*

OWNER

REFERENCES

Mr. Blake Abplanalp

Chief – Project Management Division
County of Albemarle
401 McIntire Road
Charlottesville, VA 22902
Phone: (434) 872-4501
Fax: (434) 972-4091

Mrs. Shea Willis

Shea Willis Consulting
13853 W James Anderson Highway
Buckingham, Virginia 23921
Phone: (540) 209-6713

ARCHITECT

REFERENCES

Mr. Jack Clark

RRMM Architects
115 S. 15th Street, Suite #202
Richmond, VA 23219
Phone: (804) 277-8987

Mr. Matthew Simpson

Price, Simpson, Harvey Architects
207 N. Foushee Street
Richmond, Virginia 23220
Phone: (804) 823-2900



- Midlothian Library

Schools:

- St. Michael's Episcopal School Assembly Commons Building
- Chesterfield County Moseley Elementary School
- Maymont Foundation Headquarters Additions & Reno.
- Woodbrook Elementary School Additions & Renovations
- Peter Paul Development Center-Coleman Center Addition
- Grafton Village Elementary School
- Rappahannock Church of Christ
- Glen Allen High School

Auto Dealerships & Facilities:

- Carter Myers Volvo
- Whitten Jeep Chrysler Dodge Renovation and Addition

Residential:

- Magnolia Daycare
- Dominion Raceway Car Condominiums
- Windsor Meade Villas

CONSUELA VAN SETERS

Estimator / Pre-Construction

Twenty-seven year Construction Professional with field, operations, and preconstruction experience on a wide range of projects, including renovations, new construction, educational, medical, laboratory, museum, and office construction. Consuela is a LEED Accredited Professional with a BD+C specialty and has experience with all types of procurement from Design-Bid-Build to Design Build to CM at Risk. She has worked with private clients during design development for conceptual estimates and preliminary budgets.

CIVIC INVOLVEMENT

- Junior League of Richmond
- Association of Building Contractors
- Association of General Contractors

RELEVANT EXPERIENCE

Education & Fitness

- Culpeper Career Technical Education School
- Mountain View Elementary Additions and Renovations
- Moseley Elementary School
- Prince George Elementary School
- Magnolia Academy Children's Center
- St. Michael's Assembly/Commons Building
- Hamilton Holmes Middle School Additions & Renovations
- Woodbrook Elementary School Additions & Renovations
- Colonial Forge High School Renovations & Additions
- Mountain View High School Renovations & Additions
- VMI Infrastructure project
- VWCC new STEM building
- Rhoads Hall Elevator Modernization, Virginia Commonwealth University
- Fourth Avenue Building Renovation, Virginia State University
- Toano Middle School Renovations
- Forest Apartments Alterations, University of Richmond
- Smith Station Elem. School HVAC & Roof Replacement
- Moyer Hall Library Renovations, John Tyler Community College Chester Campus
- Singleton Hall Renovations, Virginia State University
- Eastern Henrico Recreation Center
- Byrd Elementary School, Goochland County
- Graduate Housing, Façade Replacement, Buildings 3, 6 & 7, William & Mary
- Graduate Housing, Façade Replacement, Building 2, William & Mary

EDUCATION

B.S. in Design (Architecture)
Clemson University, May 1995

Masters in Construction Science & Management
Clemson University, May 1997

Sigma Lambda Chi
Construction Honor Fraternity

Ralph E. Knowland Award for Excellence in Academics & Service 1997

OSHA 30 Hour Certification
1999

Corp of Engineers QCM (Quality Control Management)
Certification 2003

LEED AP Certification
2011

LEED Continuing Education, BD+C Specialty
2013

REFERENCES

Mr. Jack Clark
RRMM Architects
115 S. 15th Street, Suite #202
Richmond, VA 23219
Phone: (804) 277-8987

Mr. J. Michael Flagg
Director of Public Works
Hanover County, VA
7516 County Complex Road
Hanover, VA 23069
Phone: (804) 365-6181

- Tucker Hall Window Replacement, College of William & Mary
- Graduate Student Housing, Façade Replacement, Buildings 8 & 9, College of William & Mary

Healthcare:

- Mary Washington Healthcare GME Family Care
- Mary Washington Healthcare Urgent Care-Physical Therapy
- Mary Washington GME Internal Residency
- University of Virginia Physician Group Primary Care Expansion
- Parham Road Doctor's Hospital Central Plant Addition
- River Run Dental
- University of Virginia Primary Care Expansion
- HealthSouth Richmond ADA Upgrades/Renovation
- Healthsouth Fredericksburg Six Bed Addition
- Southside Regional Medical Arts Pavilion Tenant Build-Out
- Southside Regional Medical Arts Pavilion
- Riverside Wellness Center Front Locker Room Renovation,
- Riverside Hospital

Government & Office Buildings:

- Midlothian Library
- Harrowgate Park Phase III
- Taylor Farm Park
- Prince George Fleet Maintenance
- Wickham Building Renovation
- Mechanical Renovation at Chesterfield Airport
- 2100 Libbie Avenue
- Wilton Commerce Park
- Henrico Mental Health Clinic
- VDOT Saluda Residency Office Building, Saluda
- Hanover Circuit Courthouse Adaptive Reuse
- Atlee Library
- River City Sportsplex
- Maymont Headquarters
- Horner Park Maintenance Shop & Access Road
- Hardywood Park Craft Brewery
- ACCA Temple Storm Damage Repair
- Landmark Theatre Loading Dock Addition
- 1801 Commerce Road Renovation
- VHDA Headquarters Renovation
- City Hall Fire Alarm & Sprinkler Upgrades
- City Hall Façade & Snow Repairs Museums, Performing Arts, &
- DeWitt Wallace Museum Sprinkler Replacement,
- Abby Aldrich Rockefeller Folk Art Museum

Automotive, Retail, Multi-Family:

- Greenswell Growers
- Hotel Petersburg
- CMA Volvo

REFERENCES (continued)

Mr. Stephen Halsey, AIA, REFP, LEED AP

Vice President
Moseley Architects
3200 Norfolk Street
Richmond, VA 23230
Phone: (804) 545-6090

- Audi Richmond Dealership & Detail Shop
- Dominion Raceway Car Condos Multi-Family & Hotels:
- Residences at Rawley Park
- Valley West Apartments
- Shockoe Valley Apartments, Phase II
- Gilhaven Manor Renovations
- Preconstruction Services for Upgrades to the Holiday Inn
- Preconstruction Services for Restaurant Conversion of the Suntrust Building

AARON PAGE

Project Manager

Aaron Page has Fourteen Years of Building Construction and Design experience with a wide range of projects, including healthcare, office, Schools, and industrial buildings, as well as infrastructure upgrade projects. Aaron has recently managed the construction of Middle Road Elementary School, in Price George County, Va. He has also managed all phases the design and implementation of building MEP systems for projects ranging from 12k to 250 million. Aaron is a registered Professional Engineer, as well as a LEED AP with a strong background in MEP systems. He is currently working on the Midlothian Library in Chesterfield County, Virginia and the Taylor Farm Park in Henrico County, Virginia.

PROFESSIONAL ORGANIZATIONS:

- Professional Engineer
- American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)
- U.S. Green Building Council (USGBC)

RELEVANT EXPERIENCE

Infrastructure Upgrades:

- Sentara Virginia Beach Medical Center, Central Plant Expansion
- Ascension Health St. Vincent Hospital, Retro-commissioning & Chiller Replacement
- Bon Secours MRMC, Chiller Replacement

Medical Facilities:

- VCU Health Adult Outpatient Facility
- VCU Health Children's Hospital of Richmond Pavilion at VCU, LEED Design, Energy Modeling
- Battle Building at UVA Children's Hospital (LEED Silver Certified)
- UVA Dialysis – Alta Vista
- OrthoVirginia Medical Office Building (LEED C&S)
- Altria Bay 9, Existing Facility Renovation
- HCA Chippenham Ambulatory Surgery Center
- HCA Chippenham Johnston-Willis MRI Renovation
- Lynchburg General Hospital Interventional Radiology
- Bon Secours Memorial Regional Medical Center Medical Office Building
- Bon Secours St. Francis Medical Center, AOC Women's Center
- Bon Secours Mary Immaculate Hospital, MRI Renovation
- Boulders Medical Office Building
- Northside Family Life Center (LEED Gold Certified)
- Page Memorial Regional Hospital Replacement Project (Projected LEED Silver)
- Winchester Medical Center North Tower LEED Design, Energy Modeling



EDUCATION

BS Mechanical Engineering, Virginia Commonwealth University

OWNER REFERENCES

Mrs. Summer Hughes

Mary Washington Healthcare
1001 Sam Perry Blvd,
Fredericksburg, VA 22401
Phone: (434) 872-4501

Mr. Mike Juergens

New Ridge Engineering
Chesterfield, VA 23235
Phone: (785) 341-2588

ARCHITECT REFERENCES

Mr. Bill Clancy

Moseley Architects
3200 Norfolk Street
Richmond, VA 23230
Phone: (804) 794-7555

Mr. Dennis Cummings

HDR Architects
2501 Monument Avenue
Richmond, VA 23220
Phone: (804) 517-2410



- Winchester Medical Center Hybrid OR Renovation
- Winchester Medical Center Data Center Renovation
- Winchester Medical Center MRI-2 Renovation, Winchester
- Mary Washington Hospital Hybrid OR Renovation
- Mary Washington Hospital LDR Renovation
- Mary Washington Hospital Observation Unit Expansion
- Novant Health Mint Hill Medical Center
- Novant Health Huntersville Medical Center Bed Expansion

Schools & Government:

- Middle Road Elementary School, Prince George County
- Midlothian Library

STEVE SEAL

General Superintendent / Owner

Thirty-four years of experience in the construction industry supervising projects ranging in value from \$2 million to \$42 million. His early work experience was in Field Engineering with a national company, and he ran his own business for several years before returning to the construction industry. He supervised the construction of a new dialysis facility in Roxboro, NC and has converted (3) existing buildings in Virginia and West Virginia into dialysis centers. In 2007 he completed the construction of a new rehabilitation facility in Fredericksburg, Virginia for HealthSouth. Steve supervised the construction of the new American Family Fitness Facility at Short Pump Town Center in Henrico County, Virginia and he was the superintendent for the construction of the University of Virginia Long Term Acute Care Hospital in Charlottesville, Virginia as well as the the UVA Physicians Group Medical Office Building at Zion Crossroads. He recently completed the construction of the new Hardywood Park Craft Brewery in Goochland County, Virginia. He is currently overseeing the historic renovation of the Hotel Petersburg, Virginia.

CIVIC INVOLVEMENT

- Coach-Chesterfield Baseball Club
- Building Committee-Second Branch Baptist Church

RELEVANT EXPERIENCE

Medical Facilities:

- UPG Riverside Pain Management Expansion
- UPG Primary Care Renovation
- HCA Central Plant
- UVA Physicians Group Zion Crossroads Health Clinic
- UVA Long Term Acute Care Hospital
- UVA Northridge-Full-Service Imaging Suite
- Healthsouth Rehabilitation Hospital-Fredericksburg plus addition
- Gambro Dialysis Center-Richmond
- Gambro Dialysis Center-Lewisburg, West Virginia
- Gambro Dialysis Center-Roxboro, North Carolina

Commercial & Fitness:

- Hotel Petersburg
- Greenswell Growers
- Chesterfield County Airport HVAC Renovations
- 106 Juliad Court-Tenant Upfit
- Indoor Recreation Facility @ Embrey Mill
- American Family Fitness Center-Short Pump Town Center
- Charles Center Subway Station-Baltimore
- Eagle Transport Service Center



EDUCATION

**BS- Building Construction-
Virginia Tech 1982**

OWNER

REFERENCES

Mr. Jason MacDonald

Service Executive
MBP
Boulders VI
7401 Beaufont Springs Dr.
Suite 301
Richmond, VA 23225
Phone: 804-972-4566

Mr. Rich Johnson

The Wilton Companies
4901 Dickens Road, Suite 100
Richmond, VA 23230
Phone: 804-237-1300

ARCHITECT

REFERENCES

Mr. Dan Weigand

RRMM Architects
115 S. 15th Street, Suite #202
Richmond, VA 23219
Phone: (804) 277-2633

Mr. Matthew Simpson

Price, Simpson, Harvey
Architects
207 N. Foushee Street
Richmond, Virginia 23220
Phone: (804) 823-2900



Retail:

- Hardywood Park Craft Brewery at West Creek, Goochland County
- Hardywood Park Craft Brewery, Charlottesville
- John Rolfe Commons Shopping Center
- Chevron Gas Station & Convenience Store
- Richmond Athletic Club Renovation
- Hotel Petersburg

**OWNER
REPRESENTATIVES**

Schools:

- Chesterfield County 360 West Area Elementary School
- Culpeper New Career & Technical Education School (CTE)
- Essex High School Additions and Renovations
- Brunswick County Senior High School Addition
- Bowling Green Primary School and Additions

Mr. Jason MacDonald

MBP

Boulders VI

7401 Beaufont Springs Drive,
Suite 301

Richmond, Virginia 23225

Phone: (804) 330-4875

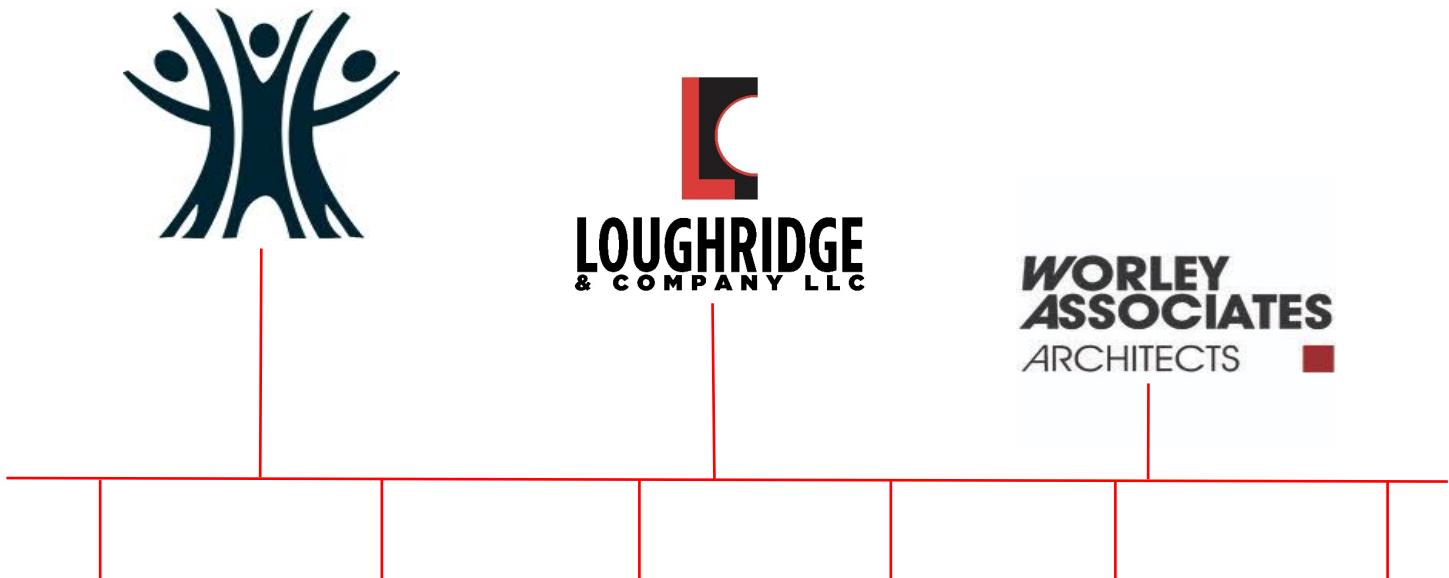
REFERENCE ATTACHMENT K
THE LOUGHRIDGE & COMPANY
FINANCIAL STATEMENT
IS PROPRIETARY INFORMATION.
THEREFORE, IT HAS BEEN REDACTED/REMOVED
FROM
THE REDACTED VERSION OF THIS PPEA RESPONSE.



Organizational Structure

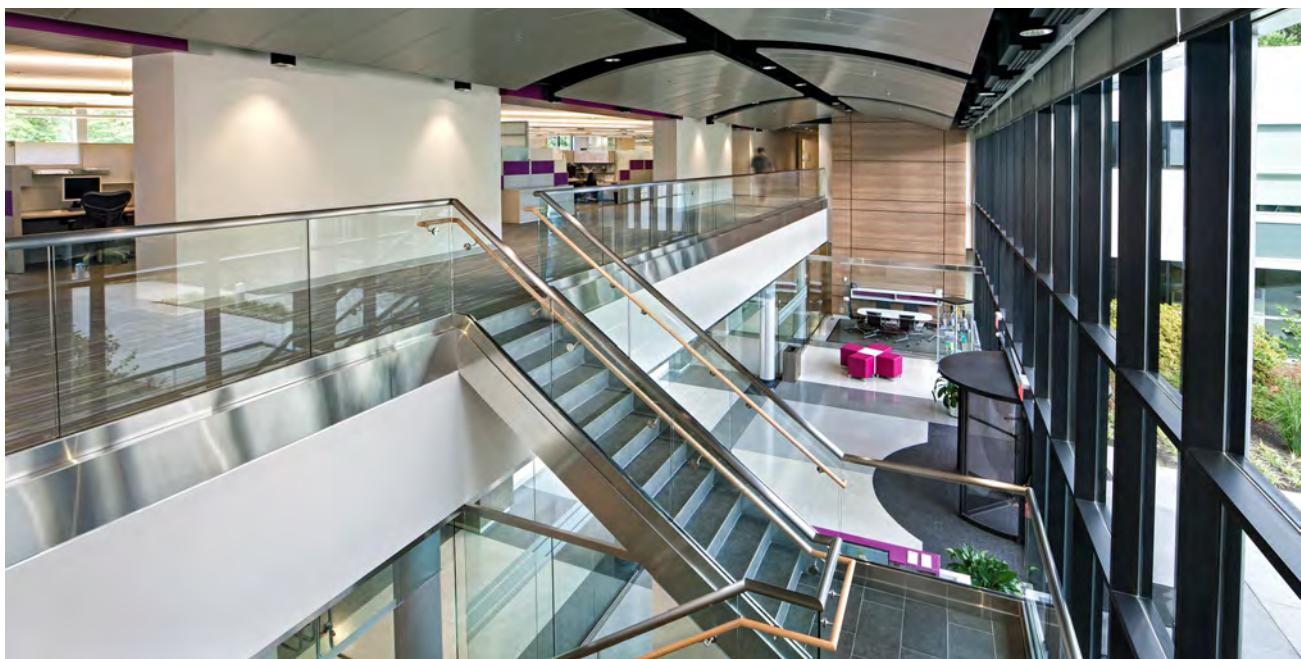
The Loughridge Construction team will be the prime professional and design team leader for your project. Throughout all phases of programming and design, we will work in close collaboration with representatives from the CBH. In addition, Worley and Associates will be along side us during design with all designers underneath of them. We believe a direct connection between the owner and both organizations will move the project along with the highest level of efficiency. Once construction starts, Loughridge will continue to stay in direct communication and Worley will ensure all work put in place matches the construction documents and the standards of today's practices.

Dedicated design team members will remain actively engaged throughout the entire process - from initial programming through Construction Administration. We have a commitment to team continuity. Our approach of emphasizing this continuity promotes an in-depth understanding of the project's specific goals and comprehensive knowledge of the overall process for a more successful project.



Firm Description

Worley Associates is a full-service, architectural firm that specializes in the programming, planning and design of dynamic spaces for a diverse range of clients. The award-winning firm was founded in 1978 and has a long and successful history of collaboration with private companies, state agencies and local municipalities.



Evonik Corporate Offices

Key Qualities of the Firm

■ Experience in Providing Architectural Services

Our proven experience includes successfully completing various feasibility studies, facility evaluations, architectural designs of many new public facilities and alteration/renovation/addition projects, as well as managing consulting engineers on teams custom tailored per project.

■ A Commitment to Continuity

Our design team members remain actively engaged throughout the entire process - from initial programming through Construction Administration. We have a commitment to team continuity. Our approach of emphasizing this continuity promotes an in-depth understanding of the project's specific goals and a comprehensive knowledge of the overall process for a more successful project, delivered on time and on budget.

■ Practical (Buildable) Design

WORLEY ASSOCIATES has exceptional technical and cost control expertise that is derived from our founder's history of a family-owned, large scale, commercial construction company. We truly know how to design functional, durable and economically constructible facilities to support your needs. Our firm also has an exceptional record in meeting both design schedules and construction budgets!

Firm Capabilities



Window Wall Sunshades

Tuckahoe Elementary School, Henrico County

Sustainable Design Strategies

Sustainable design seeks to minimize the negative environmental impact of buildings by enhancing efficiency and moderation in the use of materials, energy, and development space to ensure that our actions and decisions today do not inhibit the opportunities of future generations. Worley Associates works closely with our clients to determine the most effective strategies to fulfill sustainable design goals and to minimize the environmental impact of the project. Our LEED Accredited Professionals will incorporate project specific sustainability goals - such as maximizing views, natural light and day lighting controls - into a building that both promotes awareness and supports the health of the occupants.

Building Information Modeling (BIM)

Worley Associates uses BIM as an integral tool to enhance the design process from early planning and conceptual design through construction. Using 3D visualization early in the process aids in decision making and allows us better coordination with our design partners and construction team members for more efficient building systems with fewer component conflicts. We use 3D modeling to bring together Owners, Designers and Contractors through the development of the project, but also as the primary tool to develop construction documents.



Radford University Wellness & Fitness Center 3-Dimensional Section



Weinstein Center for Wellness, University of Richmond

RACSB Behavioral Healthcare Campus

Fredericksburg, Virginia

Worley Associates Architects is working with the Rappahannock Area Community Services Board to develop a new Behavioral Healthcare Campus. The campus is across the street from both RACSB's main administrative building and the Sunshine Lady House Crisis Stabilizatin Unit. The facility will include A CRC, primary care, psychiatric & counseling services, services for individuals with substance abuse disorders (including a PEER program), and children's services. A new pharmacy is also planned as well as drop in space for case managers.

Worley Associates has developed a Space Analysis for the building and preliminary floor plans based on interviews with staff leadership and information from outside resources. Worley has been intimately involved with the site planning, developing site studies in concert with recent zoning changes by the city. The site includes several existing buildings some of which may be preserved for future growth space.



Progress First Floor Plan

PROJECT FEATURES:

- 25,000 square feet (planned)
- Crisis Receiving Center
- Mental health clinic
- Genoa Healthcare pharmacy
- Primary care, psychiatric and counseling services
- Children's services
- Substance use disorder services, including PEERS program
- Drug court
- Office space for case managers

Culpeper Mental Health Clinic at Braggs Corner

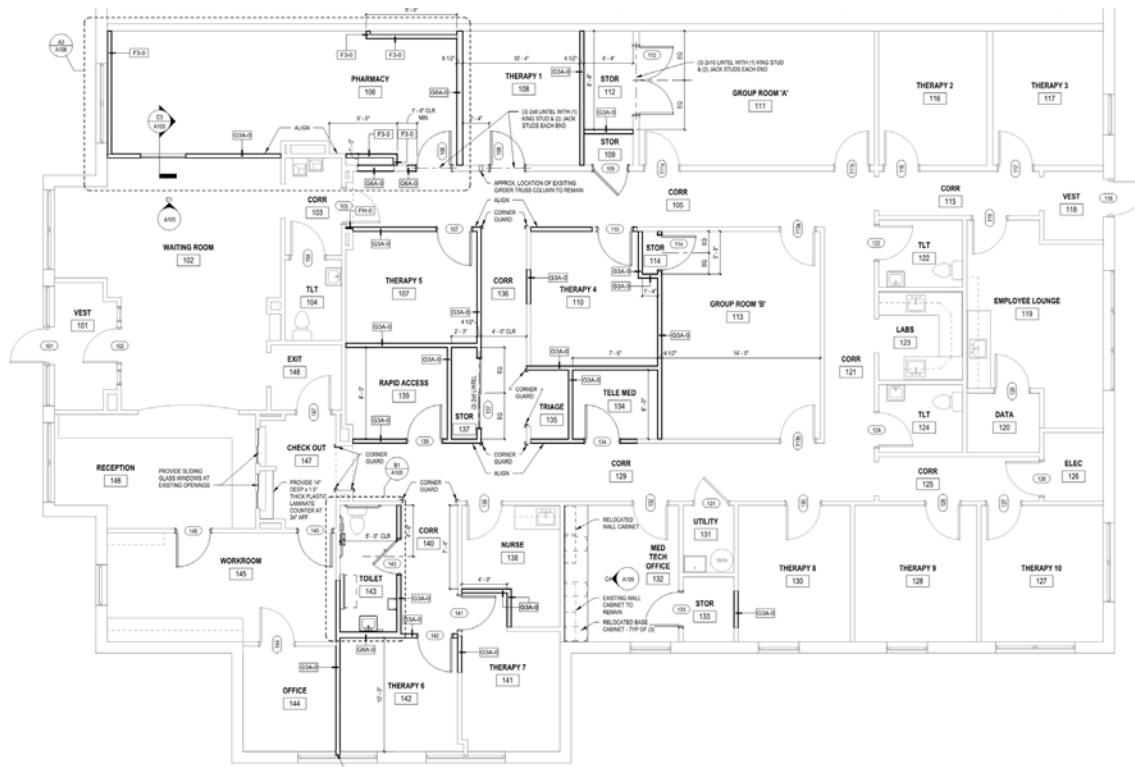
Culpeper, Virginia

Worley Associates Architects developed plans to renovate an existing medical condominium for a new mental health clinic in Culpeper. Spaces include individual and group therapy, telemedicine, and a nurse. Also included is a 360 square foot Genoa Healthcare pharmacy. Plans were crafted with an eye towards retaining as much existing construction as possible while providing the spaces needed for the clinic to operate efficiently and effectively. The project was completed in January 2024.



PROJECT FEATURES:

- 5,400 square feet renovation
- 10 therapy offices
- 2 group rooms
- Genoa Healthcare pharmacy
- Nurse
- Telemed
- Access control at doors from waiting room



Sunshine Lady House for Mental Health, Wellness & Recovery

Fredericksburg, Virginia

designer: Bill Loving (previous work at JT Cox & Associates)

The Sunshine Lady Foundation, founded by Doris Buffett, funded this Crisis Stabilization Unit administered by the Rappahannock Area Community Services Board. The design recalls the historic architecture of the town and purposely mimics the look of a bed and breakfast to provide a soothing, safe place for persons experiencing a mental illness crisis to receive treatment.

The facility maintains a residential feel throughout, with tough, durable finishes, and includes therapy rooms, offices, dining room and eight bedrooms for twelve adults. In addition, an activity room can be sub-divided into two additional double bedrooms if needed. Intake and nurse's rooms are conveniently located at the back door to allow for private access from the parking lot. An emphasis on good sight lines, with office spaces dispersed throughout the house and near both exits, allows for ease of monitoring the facility.



PROJECT FEATURES:

- 7,500 square feet
- 8 Bedrooms (2 accessible)
- Safe TDO bedroom on first floor
- 2 Meeting rooms & activity room
- Large dining /gathering area
- Intake entrance located at rear of building for privacy
- Good sight lines for security
- Delayed egress locks
- Fire suppression system
- Whole house generator
- Fenced outdoor space



Free Clinic & Family Services Building

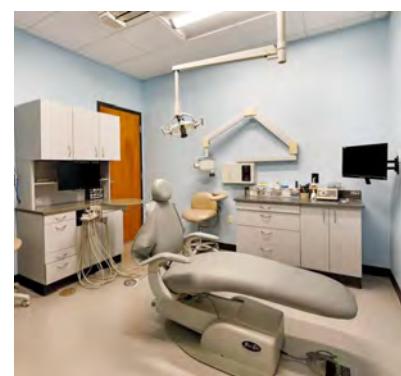
Goochland, Virginia

Goochland Cares is a non-profit organization which provides eleven critical assistance and healthcare programs to individuals and families throughout the greater Goochland community. Previously, these programs were spread over multiple locations. Goochland Cares wanted to move all these services to one location so Goochland residents could access all they needed in one place. The goal for the building was to create a welcoming place reminiscent of home. To achieve this, the exterior building design was kept in a residential vernacular, while the many familiar horse farms in the surrounding area inspired the building's interior. This feeling was further developed by using blue and green colors accented with warm wood textures and copper tones.



PROJECT FEATURES

- 20,000 square feet
- large shared waiting room
- 700 sq. ft. community education room
- 5,000 sq. ft. medical / dental clinic
- 3,200 sq. ft. thrift store w/ laundry
- 2,400 sq. ft. food pantry
- mental health clinic
- administrative office suite
- 3.9 acre development



Southside Community Center

Richmond, Virginia



* After initial selective demolition, the Contractor discovered significant groundwater intrusion into the building that needed to be addressed that was not evident previously. The team worked together to devise solutions both around and below the building to alleviate the issue.

Phase 1 of this multi-phase project consisted of the renovation of the existing gymnasium and stage along with the majority of the rest of the building. Spaces were reconfigured to provide new community multi-purpose rooms, staff offices and ADA accessible facilities. Mechanical and electrical system upgrades were also provided.

PROJECT FEATURES:

- Gymnasium
- Stage
- Multi-Purpose Rooms
- Staff Offices
- ADA Restroom Upgrades
- Phased Construction



Right: Renovated entrance lobby
Below: Renovated Gymnasium



PROJECT TEAM:

| | |
|----------------------|------------------------------|
| Architect: | Worley Associates Architects |
| Civil Engineer: | Timmons Group |
| Structural Engineer: | Daniels & Associates |
| M/P/E Engineer: | ANW Engineering |
| Cost Estimator: | Integrated Project Services |
| Contractor: | Haley Builders |

PROJECT DATA:

| | |
|--------------------|--------------|
| Size: | 15,000 SF |
| Delivery Method: | Open Bid |
| Budget / Estimate: | \$ 1,070,000 |
| Bid / Contract: | \$ 940,000 |
| Change Orders: | \$ 143,900* |
| Construction Cost: | \$ 1,083,900 |

CONTACT:

L. Dexter Goode
Special Capital Projects
City of Richmond
900 E. Broad St.
Richmond, VA 24382
276-223-3516
louis.goode@richmondgov.com



Southside Community Center

Richmond, Virginia

Construction is underway on the final phase of the improvements that includes the new community center addition, community gardens, and recreational fields and courts. The new addition to the Community Center will provide interactive, lively spaces for community wellness and recreation activities. Programmed spaces include an auxiliary gymnasium, boxing studio, community interaction spaces, video and sound recording studios, a culinary teaching kitchen and support administration spaces.

In addition, the project will feature a unique indoor playground, encouraging active-play with interactive, educational and technological attributes. A mezzanine level will provide flexible programming spaces, an indoor track and wheelchair accessibility to connect renovated second floor spaces in the existing Gymnasium structure.

PROJECT FEATURES:

- Sustainable Design Strategies
- Auxiliary Gymnasium
- Indoor Track
- Fitness Studio
- Multi-Purpose Rooms
- Indoor Playground
- Culinary Teaching Kitchen
- Boxing Studio
- Digital Video & Sound Editing Labs
- Digital Sound Lab
- Staff Offices
- Community Orchard & Garden
- Nature Trail
- Playing Fields



PROJECT TEAM:

Architect: Worley Associates Architects
 Civil Engineer: Timmons Group
 Structural Engineer: Dunbar
 M/P/E Engineer: Lu + S Engineers
 Interior Designer: Universal Design Associates
 Cost Estimation: Forella Group
 Contractor: Southway Builders, Inc.

PROJECT DATA:

Size: 28,000 SF
 Delivery Method: Open Bid
 Budget / Estimate: \$23,358,000
 Bid / Contract: \$19,348,000
 Change Orders: N/A
 Construction Cost: Under Construction

CONTACT:

L. Dexter Goode
 Special Capital Projects
 City of Richmond
 900 E. Broad St.
 Richmond, VA 24382
 276-223-3516
 louis.goode@richmondgov.com



Swift Creek YMCA

Midlothian, Virginia

A dynamic 2-story lobby greets visitors and highlights the energy of the space within. Water features within the Natatorium can be viewed from the Lounge in the Lobby or the 2nd floor training area and include a four-lane lap pool, zero entry splash pool, children's play activities, a slide and a spa. A dedicated child-watch wing provides spaces for varying age groups and includes a multipurpose auxiliary gymnasium. Several group exercise studios and both cardiovascular and weight training areas are located on the 2nd floor mezzanine.



PROJECT FEATURES:

- Multipurpose gymnasium
- Natatorium
- Fitness & training areas
- Multi-purpose exercise studios
- Lounge & social spaces
- Locker rooms
- By utilizing daylighting, sustainable materials and enhanced HVAC systems, the Building achieved LEED "Silver" Status.



PARTICIPANTS:

| | |
|----------------------|-----------------------------|
| Design Architect: | Worley Associates |
| Civil Engineer: | E.D. Lewis & Associates |
| Structural Engineer: | Delta Engineers |
| Mechanical Engineer: | Dunlap & Partners |
| Electrical Engineer: | Dunlap & Partners |
| Interior Design: | Universal Design Associates |
| Aquatic Consultant: | Siska Aurand |

PROJECT DATA:

| | |
|------------------|-----------------------------|
| Size & Type: | 60,000 SF, New Construction |
| Delivery Method: | Select Bid |
| Completed: | February 2013 |
| Contractor: | Loughridge & Company |

CONTACT:

Josh Green
Greater Richmond YMCA
2 West Franklin Street
Richmond, Virginia 23220
804-6644-9622
greenj@ymcarichmond.org



Swift Creek YMCA
Midlothian, Virginia



Above: Children's play area near lobby

Right: Pool with view to lobby and outdoors

Below: Spa and zero entry ramp

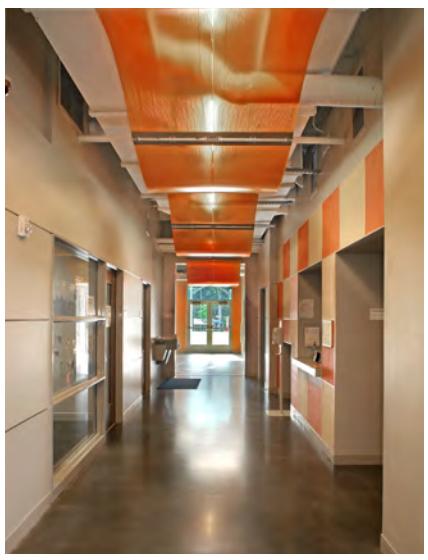


Below: Corridor in dedicated child watch wing



Above: Exercise room

Below: Fitness area with view windows to Lobby Below





William (Bill) Loving, Senior Architect

Project Role: Project Manager & Architecture Lead

Relevant Experience:

Mr. Loving brings extensive experience from thirty years of work with community services boards across the state. His background includes a wide variety of designs to improve the lives of individuals with behavioral health issues and intellectual disabilities as well as the staff members who serve them. Current work includes the design of a new mental health campus with a CRC.

Education:

Bachelor of Architecture
Virginia Tech

Registration:

Virginia #40100706

Work History:

4 years with this firm
36 years with other firms

Representative Similar Projects:

RACSB Mental Healthcare Campus, Fredericksburg, VA
25,000 SF new mental health facility and CRC
Programming Lead & Co-designer

RRCS Culpeper Clinic at Braggs Corner, Culpeper, VA
5,300 SF renovation of existing medical condominium for mental health clinic
Design Lead & Construction Documents Lead

RRCS Bridges Facility Renovation Feasibility Study, Culpeper, VA
Study to renovate an existing 16,000 SF facility for new program uses
Design Lead

RRCS Administration Building Feasibility Study, Culpeper, VA
Design study of existing administration building
Programming and Design Lead

Sunshine Lady House for Mental Health, Wellness & Recovery, Fredericksburg, VA*
New 7,500 SF Crisis Stabilization Unit for RACSB
Project Manager & Architect

RACSB River Club Training Center, Fredericksburg, VA*
Tenant fit-up of existing building for training space and offices
Project Manager & Architect

Group Homes and Supportive Housing, throughout the state of Virginia*
Lead architect for over seventy new and renovated ID & MH group homes, ICFMR
homes and MH supportive apartment projects

*work performed prior to joining Worley Associates Architects





Jennifer Wellever, Senior Associate / Sustainable Design Coordinator

Project Role: Staff Architect

Relevant Experience:

As Worley Associates' Sustainable Design Coordinator, Ms. Welliver brings a sensitivity and knowledge base to assist the team incorporate sustainable design strategies into the project where appropriate. Ms. Welliver also brings extensive architectural design and management experience in a variety of projects, including numerous office and meeting spaces.

Education:

Bachelor of Architecture
Virginia Tech

Registrations:

VA Architect #015007
LEED AP BD&C
#10706145

Work History:

17 years with this firm
1 years with other firms

Representative Similar Projects:

RACSB Mental Healthcare Campus, Fredericksburg, VA
25,000 SF new mental health facility and CRC
Co-designer, Project Architect

RRCS Culpeper Clinic at Braggs Corner, Culpeper, VA
5,300 SF renovation of existing medical condominium for mental health clinic
Staff Architect

RRCS Bridges Facility Renovation Feasibility Study, Culpeper, VA
Design study to renovate existing 16,000 SF facility for new program uses including
Staff Architect

RRCS Administration Building Feasibility Study, Culpeper, VA
Design study of existing 25,000 administration building
Staff Architect

Evonik Corporation Offices, Chesterfield County, VA
95,000 SF Renovation including offices, meeting spaces, lab space & warehouse area
Project Manager & Architect

Southside Community Center, City of Richmond, VA
Master Plan, Facility Renovation & Addition
Project Manager, Architect & LEED Review

Weidmuller Inc., Chesterfield County, VA
20,000 SF office and warehouse expansion; additional work in progress
Project Manager & Architect

The Center for Healthy Hearts, Richmond, VA
Renovations and additions for healthcare services provider and pharmacy
Project Manager & Architect





W. TERRY PAIVA, Principal

Project Role: Principal-in-Charge, Quality Control

Relevant Experience:

Mr. Paiva has expertise in all aspects of architectural practice including programming, space planning, design, construction documents, and construction administration. His design experience includes numerous projects for both private and public clients, including school, health, wellness, and recreational facilities.

Education:

Bachelor of Architecture
Virginia Tech

Registrations:

Virginia #7461

Work History:

25 years with this firm
13 years with other firms

Representative Similar Projects:

Daily Planet Health Services, Richmond

Renovations to existing building for provider which serves underprivileged individuals
Project Manager, Design & Specifications

University of Richmond Law School, Richmond

Five Phases of Renovations including renovations to Library and Classrooms
Project Manager, Design & Specifications

Southside Community Center, Richmond

28,000 SF Community Wellness and Recreation Center - Renovation & Addition
Specifications & QC

Country Club of Virginia, Richmond

Aquatic Center and Tennis Expansion
Project Architect

Fire Training Facility, Henrico County

Facility Offices & Administration & Training
Project Manager & Design Architect

Weinstein Center for Recreation & Wellness, University of Richmond

New Facility with Fitness, Gymnasium & Indoor Track
Project Manager & Design Architect

Recreation and Wellness Center, Radford University

New Facility
Project Manager & Design Architect



Founded: 1980



Contact: 877-342-4237



Offices: Richmond, Virginia
Williamsburg, Virginia
Chesapeake, Virginia
Harrisonburg, Virginia



Service Area: Virginia, North Carolina



People: Over 60 professionals including project managers, civil engineers, landscape architects, land surveyors, designers, field staff, accounting personnel, business development staff and marketing professionals

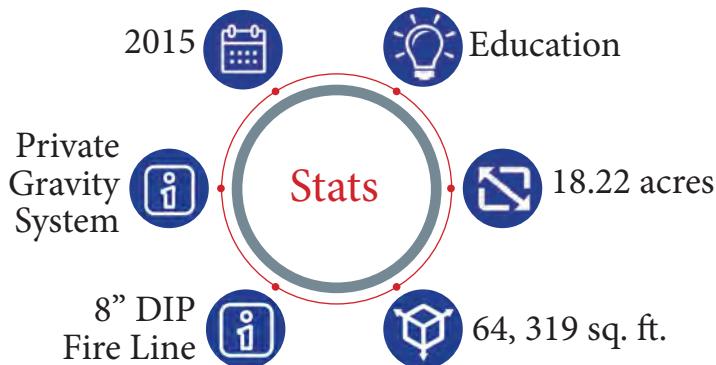


Projects: Single Family, Multi-Family, Hospitality, Mixed-Use, Office, Retail, Banks, Restaurants, Healthcare, Senior Living, Government, Education, Military, Industrial, Poultry Houses

Memberships: ASCE, NSPE, NSPS, ASLA, VAS, HRACRE, LDDI, GRACRE, HBAR, ULI



James Blair Middle School, Hampton Roads

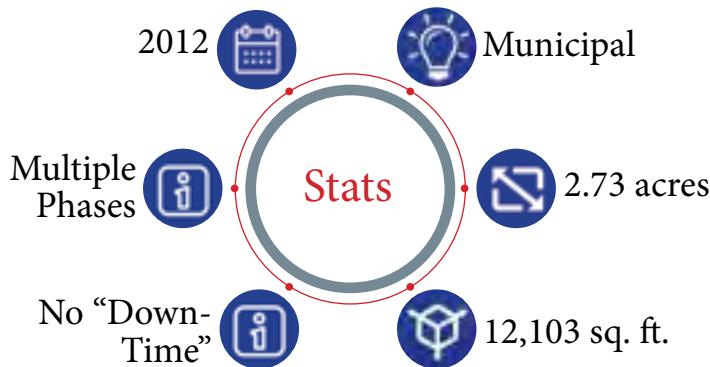


AES provided comprehensive civil site design, land planning, and surveying services for James Blair Middle School in Williamsburg. The three story 64,319 sq. ft. building is situated on an 18.22-acre site. The AES design includes a 193-space parking lot, athletic field improvements, and roadway and entrance improvements along Longhill Road and Ironbound Road. Water elements included in the design consist of an 8" DIP fire line that transitions to 8" C900 PVC internal of the site and a 4" line that connects into an existing water main.



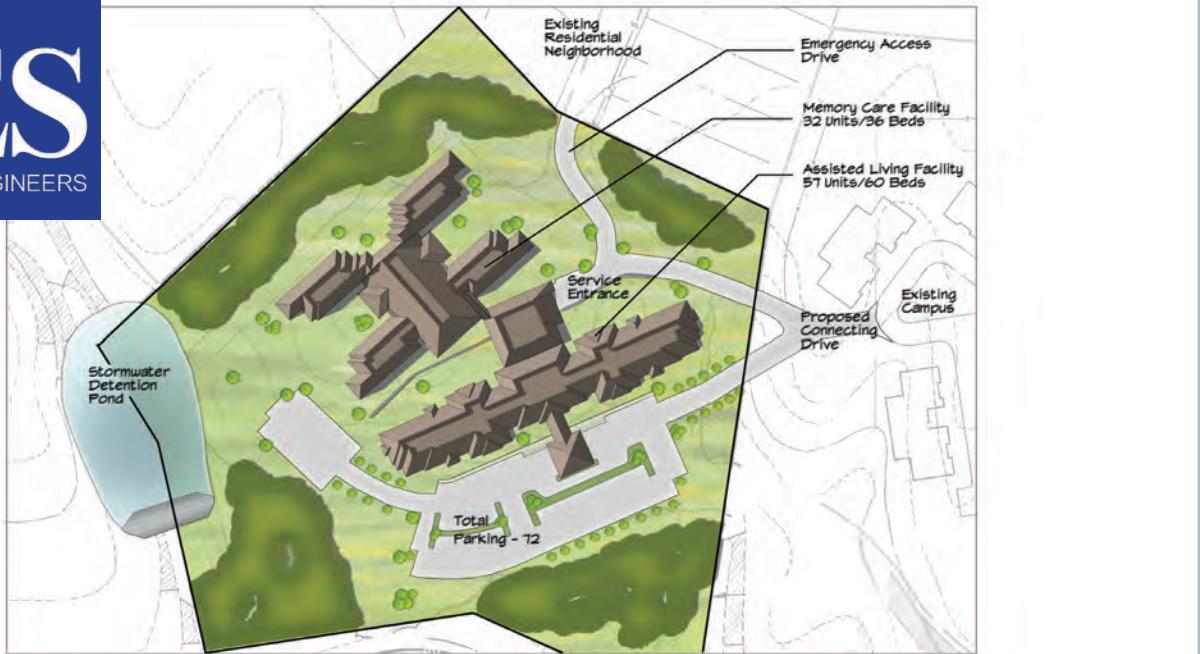


James City County Fire Station #4, Hampton Roads

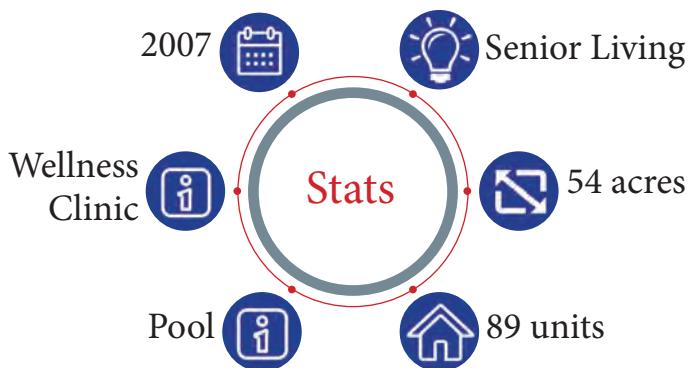


AES provided surveying and comprehensive civil site design for Fire Station #4, located in James City County. This 2.73-acre site features a new 12,103 sq. ft. fire station facility. AES worked with James City County to phase the project to ensure the existing station remained fully-operational during construction of the new station. The design allowed the site and associated utilities to be seamlessly transitioned to the new facility, resulting in no “down-time” for the station and its ability to respond to emergency situations.





Chambrel at Williamsburg, Hampton Roads



AES provided conceptual design and land planning services for a proposed expansion to Chambrel at Williamsburg, an independent living and assisted living community located in James City County. This 54-acre senior living community features walking paths, a wellness clinic, a pool, and space for gaming, arts, crafts, and gatherings.



57





Riverside Doctor's Hospital MRI Suite Expansion, Hampton Roads

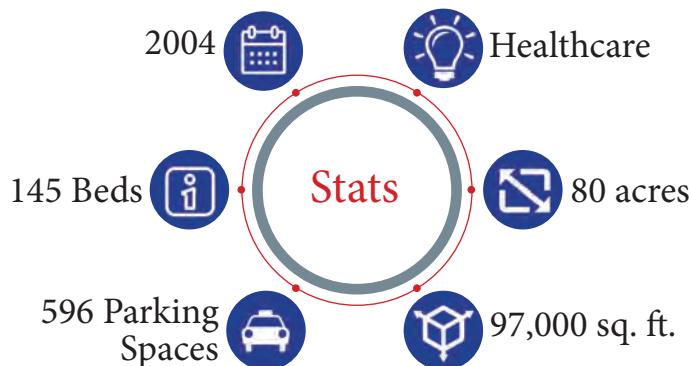


AES provided civil site design and surveying services for the MRI suite expansion at Riverside Doctor's Hospital in Williamsburg. The hospital is situated on 17.6 acres and has 33 medical / surgical rooms and 7 intensive care rooms. The MRI expansion added 2,287 sq. ft. to the existing 111,066 sq. ft. building for a total of 113,353 sq. ft.





Sentara - Williamsburg Regional Medical Center Campus Hampton Roads

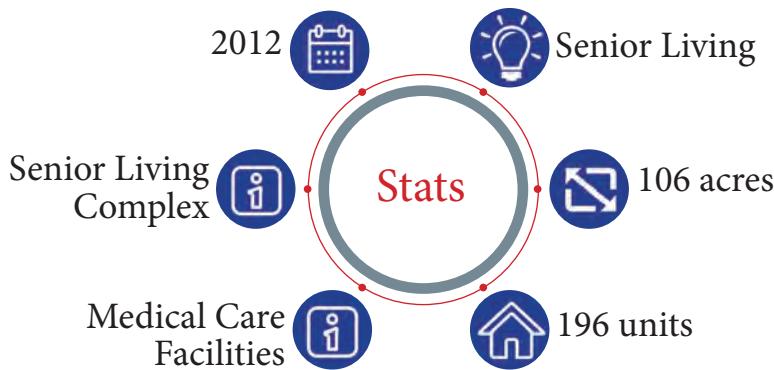


AES provided a number of critical engineering services for Sentara Healthcare System's Williamsburg Regional Medical Center Campus, which is located in York County. The 80-acre campus includes a 97,000 sq. ft. outpatient care facility, a 145-bed hospital, a 596-space parking lot, a sanitary sewer pumping stations, and a helipad. Addressing significant environmental challenges, AES produced a Stormwater Master Plan ensuring the stormwater treatment facilities exceeded all local standards.





WindsorMeade of Williamsburg, Hampton Roads



AES provided full civil site design services for WindsorMeade of Williamsburg, a continuing care retirement community located in James City County. The 106-acre site features 100 apartments, 96 private residences, a senior living complex, medical care facilities and various recreational amenities.



GRAHAM CORSON, P.E.

SENIOR PROJECT MANAGER

✉ graham.corson@aesva.com

📞 (757) 253 - 0040

🌐 aesva.com

🏡 5248 Olde Towne Road, Suite 1
Williamsburg, VA 23188



EXPERIENCE

Mr. Corson interned for three summers with AES prior to earning his degree from Virginia Tech. In 2005, he joined the company full time. As an entry-level engineer and later an EIT, he worked under other engineers performing drafting and general CAD-design support.

Today, he independently manages all aspects of site plan and utilities design, often working directly with clients and municipalities. Like many engineers at AES, he has worked on numerous types of projects. He has worked on residential subdivisions, small retail sites, public utilities, office centers, and healthcare facilities.

Mr. Corson is well-versed in CAD design standards and AutoCAD Civil 3D. He is a valued resource, guiding new hires as they strive to maximize the use of the firm's design technology.



EDUCATION / LICENSES

CIVIL ENGINEERING

BACHELOR'S OF SCIENCE
2005



Virginia Tech

PROFESSIONAL ENGINEER

VA LICENSE #0402047297
2010



MANAGEMENT SKILLS



NOTABLE PROJECTS

JAMES BLAIR MIDDLE
SCHOOL
CITY OF WILLIAMSBURG
2018

CAMP PEARY REDWOOD
BUILDING (WITH WORLEY)
CAMP PEARY
2020

CAMP PEARY CONFERENCE
CENTER (WITH WORLEY)
CAMP PEARY
2018

RIVERSIDE PHYSICAL
THERAPY MIDTOWN
CITY OF WILLIAMSBURG
2022

HAMPTON ROADS ORTHO-
PEDICS SPINE & SPORTS MED
CITY OF NEWPORT NEWS
2016

FIRE STATION #4
JAMES CITY COUNTY
2014



ENGINEERING SKILLS

AutoCAD Civil 3D



Site Grading



Conceptual Site Layout



Stormwater Design



Utilities Design



SAM BIKKERS, L.S.

DIRECTOR OF SURVEYING

 sam.bikkers@aesva.com

 (757) 253 - 0040

 aesva.com

 5248 Olde Towne Road, Suite 1
Williamsburg, VA 23188



EXPERIENCE

Mr. Bikkers began his career in 1983, as a surveyor in the U.S. Army. After his enlistment, he spent the next 30 years studying, practicing, and managing surveying operations, mainly in the Roanoke Valley area of Virginia. He joined AES in November of 2017 and currently oversees surveying operations for all AES offices and markets. His responsibilities include project management, staff development, and proposal preparation. His experience includes site development support, topographic and boundary surveys, and construction staking.

He provides project management for numerous sites including residential subdivisions and various commercial developments. He understands the complexities and challenges of both field data collection and office management. This enables Mr. Bikkers to better understand each client's vision and goals. He believes that technology is key to the ongoing creation of efficient and sustainable developments. He consistently strives to learn and utilize the most current technology to provide accurate and timely project deliverables.



EDUCATION / LICENSES

ENGINEERING SCIENCE UNDERGRADUATE STUDIES

New Mexico Institute
of Mining & Tech

LICENSED LAND SURVEYOR VIRGINIA LICENSE 1999

LICENSED LAND SURVEYOR WEST VIRGINIA LICENSE 2000



NOTABLE PROJECTS

GREEN MOUNT BOUNDARY / SUBDIVISION JAMES CITY COUNTY 2019

KELTON STATION YORK COUNTY 2018

MAIN STREET LANDING GLOUCESTER COUNTY 2019

JAMES BLAIR MIDDLE SCHOOL JAMES CITY COUNTY 2015

GREEN MOUNT PARKWAY JAMES CITY COUNTY 2019

POWELL PLANTATION YORK COUNTY 2019



MANAGEMENT SKILLS



SURVEYING SKILLS

| | |
|-----------------------|---------------------------------|
| AutoCAD Civil 3D | <div style="width: 80%;"></div> |
| Survey Management | <div style="width: 90%;"></div> |
| Boundary & Topo | <div style="width: 85%;"></div> |
| ALTA Surveys | <div style="width: 88%;"></div> |
| Construction Stakeout | <div style="width: 92%;"></div> |



GAVIN ROBEY, L.A., LEED

SR. LANDSCAPE ARCHITECT & LAND PLANNER



EXPERIENCE

Mr. Robey began his career in land development in 2004 by joining AES. His experience covers a broad range of landscape architecture services including land planning, community design, site planning, site lighting, and hardscape detailing.

His design portfolio includes formal plans, naturalistic landscapes, extravagant designs, and zero-maintenance native plantings. He has experience with a wide range of projects including clubhouse landscape designs, entry features, pond enhancements, hardscape plaza designs, perimeter landscaping, riparian buffer restorations, and streetscape designs.

In addition to conceptual and final site design, he has provided color renderings to clients for marketing and presentation purposes. Utilizing programs such as AutoCAD Civil 3D, Sketchup, and visualization software, Mr. Robey provides clients with services ranging from unit yield studies to detailed site amenity planning.



EDUCATION / LICENSES

LANDSCAPE ARCHITECTURE

BACHELOR'S OF SCIENCE
2004



PROFESSIONAL LANDSCAPE ARCHITECT

VA LICENSE #0406001299
2007

LEED ACCREDITED

2008



MANAGEMENT SKILLS



NOTABLE PROJECTS

FIRE STATION #4

JAMES CITY COUNTY
2014

ARCHILLES ELEMENTARY

GLOUCESTER COUNTY
2014

SPENCER'S GRANT POND - KINGSMILL

JAMES CITY COUNTY
2010

VILLAGE SHOPS AT KINGSMILL

YORK COUNTY
2016

THE RESERVE AT WILLIAMSBURG

YORK COUNTY
2006

KINGSMILL WOODS COURSE

JAMES CITY COUNTY
2014



ENGINEERING SKILLS

AutoCAD Civil 3D



Site Grading



Conceptual Site Layout



Landscape Architecture



Site Visualization



FIRM OVERVIEW



"What I like most about ECS are the people. They are experts with a wide-range of knowledge. I never hesitate using ECS on projects."

- Crystal Morphis, Founder and CEO
Creative Economic Development Consulting, LLC

ABOUT OUR COMPANY

2,700+
employees

90+
locations

35+
years' experience

Local: ECS Mid-Atlantic, LLC is a premier provider of geotechnical, construction materials, environmental consulting and facilities engineering services across Maryland, Pennsylvania, New Jersey and Virginia. With more than 800 employees and over 35 years of experience, ECS is equipped to help clients through the entire project cycle for both the private and public sectors.

Company: ECS Mid-Atlantic, LLC is one of the operating entities of the ECS Group of Companies. ECS currently operates in more than 90 locations throughout Eastern, Southeastern, Southwestern and Midwestern states. Utilizing the strengths, experience and expertise of 2,700 staff across the company, ECS is able to save our clients time and money.

OUR VALUE

ECS embodies its philosophy of *"Setting the Standard for Service"* by using technology and experience to assist clients in the development of cost-effective, practical solutions. For over three decades, our engineering consulting services have helped our clients meet project requirements.

ECS SAFETY

Our employees are committed to making safety an integral part of everyday operations. We conduct team safe behaviors that include observation and feedback using a Behavior Based Safety process we call STAR. We also hold monthly safety meetings, train employees to help lead those efforts as an office Safety Officer and talk about safe practices at the beginning of any ECS meeting. At ECS, safety is not just a priority; it is a core value that defines how we do business.

For more information: www.ecslimited.com.



DANA SPONTAK

ENVIRONMENTAL PROJECT MANAGER



CERTIFICATIONS

Virginia DEQ Erosion and Sediment Control Inspector
BOEM Protected Species Observer ®
Certified Wildlife Biologist ®
Certified Ecologist ®

SKILLS

Flaura/Fauna Ecology and Management
Marine Species Ecology
Phase I and II ESAs
Habitat Evaluation, Restoration and Management
Wetlands
Riparian Management and Systems
Part I and II EIRs

EDUCATION

Master of Science, 2009, Wildlife Biology (Wildlife Ecology), Texas State University
Bachelor of Science, 2004, Biology and Environmental Science, Christopher Newport University

YEARS OF EXPERIENCE

ECS: 5 Other: 14

PROFESSIONAL PROFILE

Mr. Spontak has more than 19 years of experience as a biologist/wildlife ecologist with knowledge in conservation, habitat evaluation, restoration and management, wetlands, riparian management and systems, water quality, botany, marine ecology, marine and terrestrial mammalogy, herpetology, ornithology and endangered species. His experience has focused on the Marine Mammal Protection Act (MMPA), Endangered Species Act, the Clean Water Act, Environmental Protection Act, Institutional Animal Care and Use Committee (IACUC) and the Migratory Bird Treaty Act (MBTA). Mr. Spontak has provided wildlife and land management, endangered species survey and ecological survey support to both private and public entities.

PROJECT EXPERIENCE

Admiral Point Apartments, Newport News, VA - ECS sampled five boring sites for soil on the 9.36 acre apartment complex. Mr. Spontak conducted Phase II Environmental Site Assessments. Tasks include contacting utility companies to map lines, documenting geotechnical soil boring, sample groundwater and soil for laboratory analysis, interpreting and reporting laboratory results relating to petroleum products and writing final reports.

Calvary Christian School, Norfolk, VA - Mr. Spontak conducted a Phase I ESA on this 10+ acre abandoned private elementary/middle school.

Stone Ridge Apartments, Portsmouth, VA - Sampled three boring sites for soil and groundwater on the 20.47 acre multi-tenant residential complex in Portsmouth. Mr. Spontak conducts Phase II Environmental Site Assessments on the project for ECS. Tasks include contacting utility companies to map lines, documenting geotechnical soil boring, sample groundwater and soil for laboratory analysis, interpreting and reporting laboratory results relating to petroleum products and writing final reports.

W 25th Street Properties, Norfolk, VA - The site is a 0.48-acre property currently used as a commercial warehouse in Norfolk. Mr. Spontak conducts Phase I due diligence Environmental Site Assessments. Tasks include submittal of proposals, conducting site visits, reviewing historical database, submitting and reviewing FOIA responses, conducting interviews and writing reports.

North Landing Beach RV Resort, Virginia Beach, VA - Mr. Spontak conducts Phase I due diligence ESAs at the 96-acre tract of land used for an RV resort along the North Landing River. Tasks include submittal of proposals, conducting site visits, reviewing historical database, submitting and reviewing FOIA responses, conducting interviews and writing reports.

W. LLOYD WARD, PE

VICE PRESIDENT, BRANCH MANAGER/PRINCIPAL ENGINEER



PROFESSIONAL PROFILE

W. Lloyd Ward is the Branch Manager and Principal Engineer for the Williamsburg, VA office of ECS Mid-Atlantic, LLC. He has been a practicing geotechnical engineer in the Hampton Roads Area for over 20 years and has consulted on notable projects such as: the Oyster Point Tech Center in Newport News, VA; Zable Stadium Expansion at The College of William and Mary in Williamsburg, VA; James Blair Middle School in James City County, VA; The Marquis in Williamsburg, VA; and large land development projects such as High Street and Newtown in Williamsburg, VA.

REGISTRATIONS

Professional Engineer: VA, NC

CERTIFICATIONS

Dynamic Pile Analysis Training

FACE: FNumber Measurement with the Dipstick Floor Flatness Profiler

SKILLS

Special Inspections

Geotechnical Engineering

Construction Materials Testing

Geotechnical Analysis and Observation for Foundation Systems

EDUCATION

Master of Science, 2019, Civil Engineering, Missouri University of Science and Technology, Rolla, MO

Bachelor of Science, 1996, Civil Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA

YEARS OF EXPERIENCE

ECS: 15 Other: 9

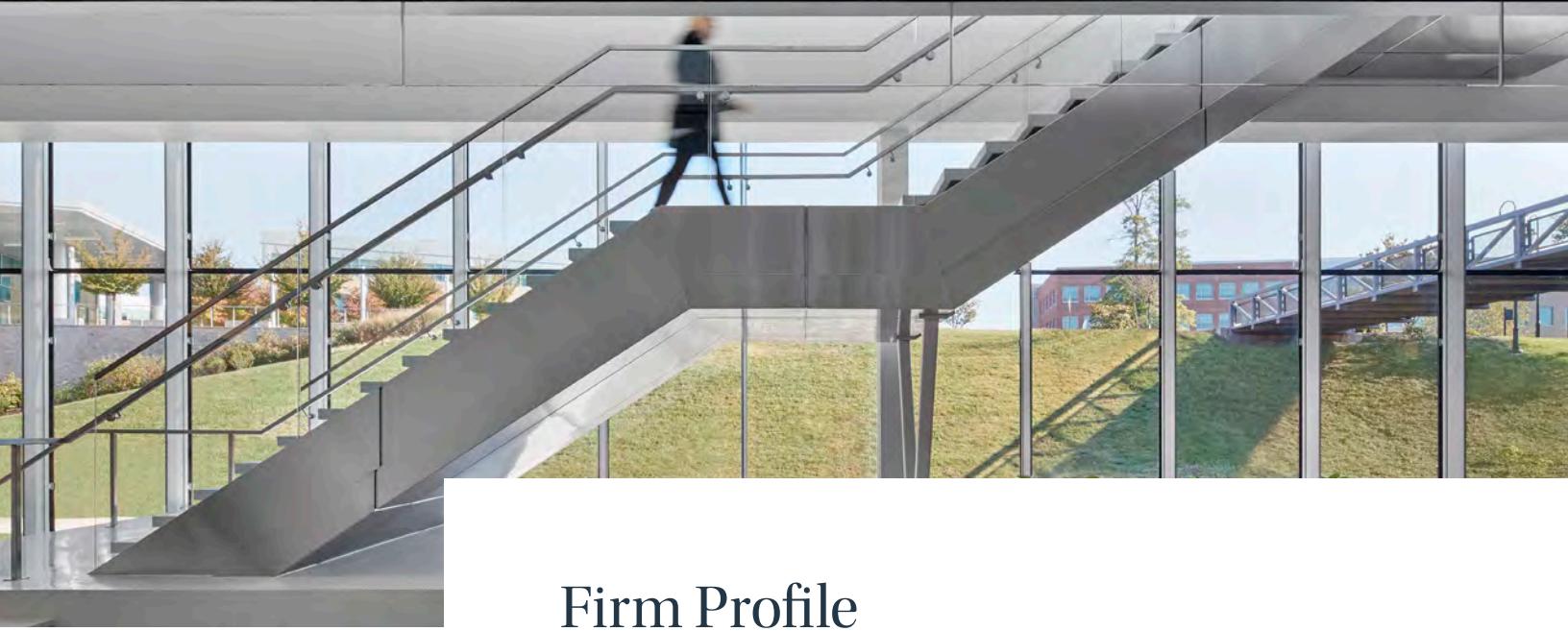
PROJECT EXPERIENCE

The College of William & Mary, Alumni House Addition, Williamsburg, VA – Mr. Ward was Principal Geotechnical Engineer who oversaw the subsurface exploration and engineering evaluation for this project. The addition is 17,161 gross-square-feet (first floor); 6,991 gross-square-feet (second floor) and 10,822-gross-square-feet (third floor). This exploration explored the soil and groundwater conditions at the site to develop soils-related engineering recommendations that guided design and construction.

Gateway to Werowocomoco - Timberneck Farm, Gloucester County, VA – Mr. Ward was Principal Engineer overseeing the geotechnical engineering and materials testing programs. ECS provided a subsurface exploration and geotechnical engineering services for the proposed Gateway to Werowocomoco project. At the time of services, the Virginia Department of Conservation and Recreation was exploring the potential for the 645 acre farm to become a Virginia State Park. Acquisition of the land allowed the development of a State Park in Gloucester County and provided water access, recreational, and educational opportunities. Timberneck now serves as a Gateway to Werowocomoco and is the location of interpretive elements for this culturally and archaeologically significant site.

Arbordale Pump Station, Williamsburg, VA - Mr. Ward was the Principal Engineer for the subsurface exploration and geotechnical engineering analysis in anticipation of construction of the pump station associated with a new subdivision. At the time of the subsurface investigation, the pump station site was wooded with a gravel access road. Recommendations were provided for the pump house foundations and slab, wet well slab, seismic design, wet well below grade walls and below grade structure design.

Cook's Corner Pump Station Exploration, Saluda, Middlesex County, VA – Mr. Ward was the Principal Engineer who oversaw this subsurface investigation and geotechnical engineering services for the design of structure foundations and construction considerations. ECS conducted a subsurface exploration and laboratory testing program, site characterization, engineering analyses, and developed recommendations for the design and construction of the new pump station building, generator pad, pavements, and associated utilities.



Firm Profile

FOUNDED

1966

LOCATIONS

Richmond, VA
Charlottesville, VA
Charlotte, NC

PEOPLE

35 Employees
24 Registered Professional Engineers
5 Graduate Engineers (EITs)

CERTIFICATIONS

SWaM, Small Business

CLIENTS

Architects
Government/Municipal
Engineering Firms
Contractors
Industry

Thoughtful and Thorough Is Our DNA

For 55+ years, Dunbar has provided structural engineering services using a balanced approach that's uniquely ours – an approach intentionally designed to help make even the most ambitious vision a reality. Our thoroughness leads to the right solutions for your project, balanced by a level of thoughtfulness that ensures our recommendations create better project outcomes.

Today, Dunbar is one of the largest firms in Virginia dedicated solely to structural engineering. We've done almost everything: a foundation for a sculpture, a new modern library, renovation of a 100-year-old historic building, a new 17-story hospital, an athletic stadium. You name it, we've probably done it!

MARKETS

Higher Education
Health Care
Public Buildings
K-12
Cultural
Athletic Facilities
Industrial
Commercial
Parking decks
Multi-Family Housing

SERVICES

Structural engineering
Structural investigations
Contractor assistance
Adaptive reuse
Historic preservation
Sustainable design

Dunbar – Select List of Projects

Taylor Farm Park Development - Henrico County, VA

Architect: Worley Associates Architects

Contractor: Loughridge Construction

Central State Hospital – Department of General Services, Petersburg, VA

Southside Community Center Addition - City of Richmond, VA

Architect: Worley Associates Architects



Fire Training Facility - Henrico County, VA

Architect: Worley Associates Architects

Peter Paul Development Center Addition – Richmond, VA

Contractor: Loughridge Construction

Maymont Foundation Headquarters Addition and Renovation - Richmond, VA

Contractor: Loughridge Construction

Atlee Library - Hanover County, VA

Contractor: Loughridge Construction

Boxwood Recovery Center - Rappahannock Rapidan Community Services, Culpeper, VA

Trinity Episcopal School, Perkinson Arts Center Renovation – Richmond, VA

Architect: Worley Associates Architects



Student Recreation & Wellness Center - Radford University

Architect: Worley Associates Architects

New Assembly Building - St. Michael's Episcopal School, Richmond, VA

Contractor: Loughridge Construction

Weinstein Center for Recreation - University of Richmond

Architect: Worley Associates Architects

Gregory C. Ellen, PE

Principal, Richmond, VA - Structural Project Manager



BACKGROUND

Greg has provided consulting structural engineering services to architects, governmental institutions and agencies, and industry for two decades. In 2000, Greg began his engineering career with Dunbar and became a Partner January 2012. Greg has a variety of experience, including courthouses, county/municipal buildings, and athletic, higher education, and performing arts facilities.

RELEVANT EXPERIENCE

Dunham Dental 2210-30

New 7,000 SF dental services building with a clerestory front entrance. *With Worley*

Southside Community Center - City of Richmond, VA

A 25,700 SF addition to existing building containing an auxiliary gymnasium with suspended track, boxing studio, kitchen, indoor playground and other support spaces. A 2,700 SF mezzanine will connect the new building to the 2nd floor of the existing building to improve ADA accessibility throughout the original building. *With Worley*

Human Services Building - Henrico County, VA

Renovation of 13,648 SF of the ground floor to accommodate additional offices for Social Services and the Henrico Drug Court.

Taylor Farm Park Development - Henrico County, VA

Master plan and design to include a sports complex which could consist of multi-purpose lighted athletic fields, public restrooms, concessions, team facilities, playgrounds, spray-ground, walking trails, picnic areas and service facilities. *With Worley+ Loughridge*

Weinstein Center for Recreation - University of Richmond, VA

Renovation of 32,500 SF and 26,000 SF addition to recreation and wellness facility with expanded cardio and strength-training, elevated jogging track, 3-court gymnasium, casual meeting areas, locker rooms and instructional space. *With Worley*

Prince George Central Wellness Center - Prince George County, VA

Adaptive reuse of an existing 72,300 SF former public school building.

EDUCATION

M.S. Civil Engineering, North Carolina State University - 2000

B.S. Civil Engineering, Virginia Military Institute - 1998

EXPERIENCE

Industry: 24 years

Dunbar: 24 years

REGISTRATIONS & CERTIFICATIONS

Professional Engineer:

Virginia #039564

North Carolina #052244

New Jersey #24GE05829500

AFFILIATIONS

American Council of Engineering Companies

Structural Engineers Association of Virginia (SEAva)

American Institute of Steel Construction



FIRM PROFILE AND PHILOSOPHY

New Ridge Engineering, PLLC is a multi-disciplinary engineering firm formed in March of 2021 by three friends who met working together on highly technical building design projects. Our entrepreneurial spirits and passion for delivering thoughtful and measured solutions for our clients inspired us to open New Ridge Engineering, PLLC. By placing an uncompromising value on efficiency, excellence, and accuracy we deliver the highest quality solutions for all of our clients' design challenges.

Since inception, New Ridge Engineering has grown to a current staff of 17 engineers. This growth in just less than three years in business is a result of earned trust from Owners, Architects, and Contractors on healthcare and hospitality projects both large and small. Based in Richmond, Virginia, New Ridge Engineering is a fully remote organization with half of our staff in the central Virginia area and half of our staff scattered across the United States. This business model has allowed New Ridge to recruit top talent nationally to have the best engineers serving our clients' projects while maintaining both a national and a focused local presence to properly serve our clients' needs.



New Ridge Engineering has designed MEP systems for projects ranging from single-room MRI, CT, and X-ray machine replacements to a 75,000 square foot greenfield outpatient physical therapy and surgery center, and state-of-the-art fertility clinics and embryology laboratories. Our broad range of experience in complex, MEP-heavy healthcare and foodservice projects translates to us serving our clients with big coordination and problem-solving capabilities paired with small-business agility and accountability.

Our employees and our clients are our most valuable assets. We strive to be the ideal engineering firm for talented engineers to work for. This means investing in and developing our engineers, while recognizing that work is just one part of our employees' lives. This set of values has attracted an outstanding group of remarkable individuals to work at New Ridge Engineering, which ensures that our clients have nothing but the best engineers serving their needs. We understand that the best results come from a collaborative effort from all invested individuals. By dedicating ourselves to listening to our client's needs and desires, we tailor the best solutions to their specific needs. We analyze our clients' challenges from multiple viewpoints to ensure a quality outcome for your important projects by encouraging feedback from all stakeholders during the entire design and construction process.



We are registered in Virginia's SWaM (Small, Women, and Minority owned business) program, certification number 819773. As a small business, we are able to offer a streamlined process from proposal to production. By keeping our operations small, we remain nimble allowing us to cater our services to our individual clients' needs.



References

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(804)874-1185

Alex Lane
Director of Construction Services
Valley Health
(540)532-1247
Alane2@valleyhealthlink.com



Mike Juergens, PE

Project Manager

Mike is a Principal for New Ridge Engineering, PLLC. He graduated from Kansas State University in 2003 with a Bachelor of Science in Architectural Engineering. Throughout his 20-year career, Mike has had the opportunity to engineer a wide variety of challenging projects. He has designed complex vertical expansion healthcare projects, infrastructure upgrades and equipment replacement, multi-phased highly technical renovations within functioning healthcare institutions, and greenfield hospitals. He has served as the Prime consultant on several projects coordinating various sub-consultants and contractors. He has also served as the quality control reviewer for several government projects.

Professional Accreditations:

Professional Engineer: VA, MD, DC, TX, WA, PA, NV, NM, NJ, NY, WV

Education and Training:

BS, Architectural Engineering,
Kansas State University, 2003

Affiliations and Memberships:

American Society for Healthcare Engineers

Virginia Society for Healthcare Engineers

American Society for Heating,
Refrigeration, and Air
Conditioning Engineers

a large Physical therapy area, Xray and MRI and well as a Surgery center. Mike served as the MEP project manager for this project.

VCU Health Comprehensive Liver Care Unit, Richmond, Virginia

VCU Health renovation of approximately 40,000 SF of renovation of VCU Health's Main hospital seventh Floor. The previous pediatric floor is being renovated to accommodate a new kidney and liver unit for the health system. Mike served as the MEP project manager for this project.

Winchester Medical Center – CITAC Renovation, Winchester, VA

WMC renovated some existing exam and conference room space into a new approximately 15,000 SF CRC/CITAC unit. Mike served as the MEP project manager for this project.

Publications

[Stacking a Centrifugal Chiller Plant at VCU's Siegel Center, 2020](#)

Notable Projects

Mary Washington Healthcare – Jack Johnson Building - GME

Mike served as project manager for the conversion of an existing building to serve the system's Graduate Medical Education services. Loughridge served as the General Contractor on this project.

Mary Washington Healthcare – Free Standing Emergency Department

Project consisted of a 22,000 square foot greenfield emergency department including multiple imaging modalities. This project was designed. Mike served as the MEP project manager for this project that is currently finishing construction.

OrthoVirginia – Ambulatory Surgical Center – Chesterfield, VA

This is an 80,000 square foot greenfield ambulatory surgery center that includes



Kelsey Robinett, EIT

Mechanical Design Engineer

Kelsey is a Mechanical Design Engineer for New Ridge Engineering, PLLC. She graduated from Kansas State University in May of 2021 with a Bachelor of Science in Architectural Engineering. Kelsey's degree provides her with an understanding of the structural, electrical, plumbing, and mechanical components throughout a building.

Shortly after joining New Ridge Engineering, Kelsey emerged as a talented mechanical engineer and has gained diverse experience in healthcare and commercial kitchen projects. She has designed greenfield and renovation projects including outpatient surgery centers, freestanding emergency departments, hospital renovations, fertility clinics, and high-end restaurants.

Kelsey has presented as a subject matter expert on the design of MEP systems for USP compounding pharmacies to the Virginia Society of Healthcare Engineers.

Notable Projects

OrthoVirginia – Westchester Medical Office Building

Kelsey served as mechanical design engineer on a 80,000 square foot greenfield outpatient facility that included physical therapy, surgery, and imaging spaces.

Mary Washington Healthcare – Free Standing Emergency Department

The project consisted of a new 22,000 greenfield emergency department including multiple imaging modalities. Kelsey serves as the mechanical design engineer and project coordinator for this project that is currently under construction.

Mary Washington Healthcare – Graduate Medical Education, Fredericksburg, VA

The project consisted of a renovation of a two-story, 13,700 square foot building into clinic space to be used for the medical training of graduate students. The building is composed of 16 exam spaces, two treatment rooms, offices, and support spaces. The project included a new HVAC system and new hydronic heating system with condensing boilers. Kelsey served as the mechanical design engineer for this project.

Memorial Regional Medical Center – OPIC Compounding Pharmacy

Kelsey served as mechanical design engineer for a new pharmacy and infusion clinic in an existing medical office building. The project included USP 797 & 800 compliant pharmacy cleanrooms, a new HVAC system for the clean rooms, and redundant exhaust system for the hazardous drug compounding hoods.

Winchester Medical Center – CITAC Renovation, Winchester, VA

WMC renovated some existing exam and conference room space into a new approximately 15,000 SF CRC/CITAC unit. Kelsey served as the Mechanical Engineer and Project Coordinator for this project.



Gray Lawson, PE

Plumbing Engineer

Gray is the lead plumbing engineer for New Ridge Engineering, PLLC. He graduated from Virginia Commonwealth University in 2011 with a Bachelor of Science in Mechanical Engineering. Gray is an experienced drafter, equipment specifier, and plan reviewer with over 6 years spent consulting in plumbing and medical gas system design. During that time, he has been involved in a wide array of healthcare and food service projects for both private and federal clients. He takes pride in the fact that his work has a direct impact on the health and safety of the users of these built environments.

Notable Projects

OrthoVirginia – Westchester Medical Office Building

Gray served as lead plumbing engineer for a 80,000 square foot greenfield outpatient facility that included physical therapy, surgery, and imaging paces. This project included new water, sprinkler, and irrigation services, as well as treated water systems for the sterile processing department and medical gas systems service the ASC.

Mary Washington Healthcare – Free Standing Emergency Department, Fredericksburg, VA

This project consisted of a 22,000 greenfield emergency department. Gray served as the plumbing, medical gas, and sprinkler system designer for this project, ensuring that this remote facility shares the same design standards and features of a hospital emergency department.

VCU Main Hospital 7th Floor Renovation

This project is a 43,000 square foot renovation to the 7th floor of a high-rise hospital. The plumbing scope included the modification of existing domestic water, sanitary, and medical gas systems to serve a new Comprehensive Liver Care Unit. Gray was responsible for bringing the existing systems up to current standards for the care of this vulnerable patient population.

Shady Grove Fertility – Multiple Locations

Gray has served as lead plumbing engineer for multiple Fertility Clinic and Surgery Center projects with Shady Grove Fertility across the country. These projects range from 15,000 to over 20,000 square feet of clinical, office, laboratory, and surgery spaces. He has helped develop their company standards for plumbing, medical gas, and laboratory gas system design and layout.



Laurence Jones, PE

Electrical Engineer

Laurence is a Principal for New Ridge Engineering, PLLC. Throughout his career, Laurence has designed and modeled complex power distribution systems and lighting control systems.

Laurence's primary experience has provided quality solutions for various healthcare, government, commercial, hospitality, and industrial clients. These projects included full-service kitchens and serveries, hybrid operating rooms, outpatient surgical centers, emergency power system upgrades, and an EMP-resistant warehouse facility. In addition to building design, Laurence has produced over-current protective device coordination and arc flash studies as part of larger electrical system studies.

Publications

Engineered Systems Magazine

[Power is Life for In Vitro Fertilization Facilities, 2022](#)

Notable Project Experience

OrthoVirginia Ambulatory Surgery Center, Chesterfield, Virginia

Laurence provided the electrical design for the 80,000 square foot facility housing a physical therapy gym, four operating rooms, x-ray rooms, exam spaces, and support areas. The building consists of a 750 kW diesel generator, 4000A normal power service, and all associated distribution equipment.

Mary Washington Healthcare – Jack Johnson Building - GME

Laurence served as Electrical Engineer for the conversion of an existing building to serve the system's Graduate Medical Education services. Loughridge served

as the General Contractor on this project.

Winchester Medical Center – CITAC Renovation, Winchester, VA

WMC renovated some existing exam and conference room space into a new approximately 15,000 SF CRC/CITAC unit. Laurence served as the Electrical Engineer on this project.

Keaney Produce – Richmond, VA

Renovation of produce packaging facility in Richmond. Laurence is serving as the Electrical Engineer and MEP project manager for this project.

Founded in 1999, Convergent Technologies Design Group's background spans nearly two decades with more than 1100 successfully completed design projects. Strategically positioned offices in Maryland, Arizona and New York allow our designers and project managers to effectively service clients coast to coast. Various markets in which CTDG works include: Commercial, Laboratory, Science & Technology, Manufacturing, Libraries, Recreation & Wellness, Higher Education, Healthcare, Justice, Performing Arts, Federal Government, K-12, Museums, Radio, Television & Recording Studios, Hospitality & Gaming and LEED Projects. Our fundamental design philosophy encourages our designers to be "cross-trained" in the various technologies that we specialize, in order to identify the most economical and functional solution to any challenge.



AUDIOVISUAL & MULTI-MEDIA SYSTEMS

- Digital Audio/Video Recording
- Digital Audio/Video Streaming
- CCF Layout & Design
- Control Center Multiplexing
- Large Venue Audio Systems

TELECOMMUNICATIONS CABLING SYSTEMS

- PBX Systems Expansion/VOIP
- PBX Electronic Expansion/VOIP
- LAN Switch Electronics
- Wi-Fi LAN Access Points
- Wi-Fi Distribution Analysis
- Structured Horizontal Cabling
- Vertical Riser/Telecomm
- IDF Design

ACCESS CONTROL/SECURITY SYSTEMS

- CCTV
- Access Control & Monitoring
- Door Alarms
- Motion Detectors
- Panic Alarms

ACOUSTICS, NOISE, & VIBRATION CONTROL

- Composite Sound Ratings
- Penetration Details – Piping
- Structure Noise Abatement
- Penetration Details – Ductwork
- Penetration Details – Electrical
- Reverberation Time
- Room Finish proposal/specs

THEATRICAL, STAGE & STUDIO LIGHTING

- Full Performance/Studio Light
- Fixture Layouts
- DMX Cabling Design
- Mounting/Suspension Details
- Focal Distance Calculations
- Fixture Positioning Calculations

HEALTHCARE LOW VOLTAGE SYSTEMS

- Patient Entertainment
- Patient Wandering Units
- Patient Tracking Units
- Nurse Call
- Wandering Patient Tracking
- RTLS

Johns Hopkins Hospital

Zayed Bloomberg Building Adult Emergency Department
Baltimore, MD
CTDG provided Telecommunications Cabling Systems with Infrastructure and Access Control/Video Surveillance Systems with Infrastructure design services

MedStar National Rehabilitation Hospital

Behavioral Health Renovation
Washington, DC
CTDG provided Low Voltage Systems & Infrastructure Design services for Inpatient Acute Psychiatric Unit, as well as Telecommunications Structured Cable Systems, Nurse Call & Audiovisual Systems

University of Virginia Health System

University Hospital Expansion / Access Control for Doors in Behavioral Health
Charlottesville, VA
CTDG provided access control/video surveillance system design services

Sheppard Pratt Health System

85 Bed Replacement Behavioral Health Facility
Elkridge, MD
CTDG provided acoustics, noise & vibration control design services

Department of Public Safety & Detention Services

Baltimore Therapeutic Treatment Center
Baltimore, MD
CTDG provided Low Voltage Systems & Infrastructure, acoustics, noise & vibration control design services

U.S. Department of Veterans Affairs Roseburg Healthcare System

Mental Health Seismic Replacement, Phase I
Roseburg, OR
CTDG provided telecommunications cabling systems with infrastructure, audiovisual systems and supporting infrastructure, nurse call and code blue intercom systems and developed criteria for public address and paging along with inter/intra departmental intercoms



Anne Arundel Medical Center

Mental Health Specialty Hospital
Annapolis, MD
CTDG provided Low Voltage Systems design including patient monitoring systems, access control/video surveillance systems and telecommunications structured cable systems



BRIAN WHITLOCK *CTS-D, DMC-D, RCDD*

Project Manager for Telecom/AV Infrastructure & Security

Mr. Whitlock is a Principal Designer with twenty (20) years of design and project management experience at Convergent. He has worked on over four hundred (400) projects as a Project Manager and Primary Designer for audiovisual systems, security systems, and telecommunications cabling systems. Design exposure includes a working knowledge of multi-phase design projects, cost estimating techniques, AutoCad/REVIT production, and all aspects of Low Voltage Systems design. Specialized systems design includes collaborative multimedia presentation, video conferencing, recording and production, large format high-resolution displays, patient entertainment systems, fiber and co-axial broadband video distribution, speech reinforcement, video surveillance, access control, and local area networking systems. His primary responsibilities commonly include the design and specification of LAN/WAN networks, telecommunications intrabuilding cable plants, outside plant cabling (OSP), Radio Frequency (RF) and project management of installation contractors. Additional responsibilities include dimensioned & system interconnection drawing production, quality control reviews, product research, and implementing the latest technologies into our current design projects. Mr. Whitlock also has hands on experience with structured cabling systems, multi-media projection, and remote-control systems implementation.

RELEVANT PROJECT EXPERIENCE

Dept. of Public Safety & Detention Services - Baltimore Therapeutic Treatment Center

Sheppard Pratt Health Systems - 85 Bed Replacement Behavioral Health Facility

University of VA Health System - University Hospital Expansion

Sharp Healthcare - Innovation & Education Center

Johns Hopkins Hospital - Executive Suite Renovation

Johns Hopkins Hospital - Bundled CT and MRI

Johns Hopkins Medicine - Howard County General Hospital

MedStar National Rehabilitation Hospital - Behavioral Health Renovation

University of Maryland Medical System - Shore Regional Medical Center Replacement Hospital

INOVA Loudoun Hospital - Repurpose STICU for 2 OR's

INOVA Loudoun Hospital - Sixth Floor Fit-Out

University of Virginia Health System - University Hospital Expansion

Virginia Hospital Center - Old Meadow Ambulatory Surgery Center

Lancaster General Hospital - TDR Room Upgrades

Lancaster General Hospital - Emergency Department/Tower Expansion

MD Department of Public Safety & Detention Services - Baltimore Therapeutic Treatment Center

NYC Health & Hospitals - Coney Island Critical Services Tower

EDUCATION/CERTIFICATIONS

Digital Media Certified – Designer (DMC-D) - Crestron

Certified Technology Specialist – Designer (CTS-D) - ICIA

Registered Communications Distribution Designer (RCDD) - BiCSI

BiCSI Certificate of Completion: Wireless Security & Surveillance; Integration Techniques for Installing AV in Classrooms & Conference Rooms

A.A – Catonsville Community College, 2007

AutoCAD Operator Certification - Catonsville Community College, 2005

Computer Drafting & Design Architecture & Engineering Certificate - Catonsville Community College, 2004

PROFESSIONAL AFFILIATIONS

American Institute of Architects (AIA)

Audio Engineering Society (AES)

Building Industry Consulting Services International (BiCSI)

International Communications Industry Association (ICIA)

20 Years with CTDG

20 Years of Experience



KEN FURMAN RCDD, CTS, VSSD II

Lead Technology Designer – Telecom & AV Infrastructure, Security

Mr. Furman is a Senior Associate with over twenty- five years of experience in the telecommunications industry. He is a BiCSi Registered Communications Distribution Designer (RCDD) and serves as a Designer for telecommunications cabling, security, and LAN/WiFi/PBX systems. His experience includes the design/specification, project management, certification, and maintenance of all types of Data Networking and Telecommunications Cabling Systems that support the transmission of data, video, voice and multi-media communications. Project experience includes structured cabling solutions for commercial, higher education, residential, healthcare, municipal, government, military, cultural, historical renovation, commercial, and K-12 projects. Design exposure includes a working knowledge of multi-phase design projects, cost estimating techniques, and AutoCad production for associated documentation with milestone deliverable schedules. Mr. Furman's primary responsibilities commonly include the design and specification of LAN/WAN networks, telecommunications intrabuilding cable plants, outside plant cabling (OSP), Radio Frequency (RF) and project management of installation contractors.

EDUCATION/CERTIFICATIONS

Certified Technology Specialist (CTS)

Registered Communications Distribution Designer (RCDD) - BiCSi

B.S. Business Administration – University of Baltimore

A.A. - Catonsville Community College

PROFESSIONAL AFFILIATIONS

American Institute of Architects (AIA)

Acoustical Society of America (ASA)

Audio Engineering Society (AES)

Building Industry Consulting Services International (BiCSI)

15 Years with CTDG

25 Years of Experience

RELEVANT PROJECT EXPERIENCE

Dept. of Public Safety & Detention Services - Baltimore Therapeutic Treatment Center

Sheppard Pratt Health Systems – 85 Bed Replacement Behavioral Health Facility

University of VA Health System – University Hospital Expansion

Sharp Healthcare – Innovation & Education Center

Johns Hopkins Hospital – Executive Suite Renovation

Johns Hopkins Hospital – Bundled CT and MRI

Johns Hopkins Medicine – Howard County General Hospital

MedStar National Rehabilitation Hospital – Behavioral Health Renovation

University of Maryland Medical System – Shore Regional Medical Center Replacement Hospital

INOVA Loudoun Hospital – Repurpose STICU for 2 OR's

INOVA Loudoun Hospital – Sixth Floor Fit-Out

University of Virginia Health System – University Hospital Expansion

Virginia Hospital Center – Old Meadow Ambulatory Surgery Center

Lancaster General Hospital – TDR Room Upgrades

Lancaster General Hospital – Emergency Department/Tower Expansion

MD Department of Public Safety & Detention Services – Baltimore Therapeutic Treatment Center

NYC Health & Hospitals – Coney Island Critical Services Tower

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We believe that solving difficult design challenges requires passion, creativity, commitment, and especially a little fun! As one of the largest interior design firms in Virginia, we are passionate about our work and strive to create spaces that are functional as well as aesthetically pleasing.

We want to learn about you! We know our clients and we believe in what they stand for. Working with you is what motivates us.

Design is about people and works best when people come together to make it happen. We want you to be engaged in the process so that the solution solves all of your needs. You are the expert on what you do. Our expertise can help you do what you do better.

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contact information

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Fax: (804) 527-0623

www.ksainteriors.com

fast facts get the details

Certifications

Economically Disadvantaged Women-Owned Small Business (EDWOSB) - #EDWOSB11076
VA-SWAM Certification #7149
MD-Small Business Certification: #SB06-2164
Dun and Bradstreet: #790362578
CAGE Code: 3JVZ6

Years in Business

41 years, Established in 1982

Contracts

VASCUPP Contract # 7748325CP-1

Services

Interior Design
Space Planning
Experiential Graphics
Project Management

Firm Size

Total Staff: 11
3 Leadership
4 Project Management
4 Interior Designers (CID)
6 Interior Designers
2 Administrative

*Quantities are based on our agility to have multiple roles depending on the project and workload.

4 team members are LEED Accredited Professionals (AP)



| | |
|--|---|
| Photo - Project Profile Large  | Project Brief Harrisonburg - Rockingham CSB Crisis Stabilization <p>Throughout the project, KSA Interiors prioritized the use of materials, colors, and textures that promoted a sense of comfort and tranquility. Natural elements, soothing color palettes, and ergonomic furniture choices were incorporated to enhance the overall sense of well-being for both residents and staff members. The design team also took into account the importance of privacy, dignity, and accessibility when creating individual living spaces and shared facilities.</p> |
|  | RHS Evergreen Memory Care <p>The design team worked with Riverside Health Systems to develop a sensory art experience for the residents living in the Evergreen Memory Care Unit of the Warwick Forest CCRC located in Newport News, Virginia. This solution also needed to complement the recent renovation efforts through coordination of placemaking themes tied to the surrounding locale.</p> |
|  | Sentara Rockingham Memorial Hospital <p>RMH selected KSA Interiors to provide design services to furnish their new 620,000 SF, 238-bed LEED Gold hospital. KSA's services included space planning and on-site support services for departments including patient rooms, operating rooms, ambulatory care, rehabilitative services, LifeSkills Learning, behavioral health, women's health, as well as lobbies, nurse stations, cafeterias and reception/waiting areas.</p> |
|  | Woodbine Rehab and Healthcare Center <p>KSA Interiors provided space planning, interior design, and FF&E selection services to create an inspiring environment for Woodbine's people-rich culture. The newly renovated 6,400 sq. ft. rehabilitation gym has been enhanced with a variety of state of the art equipment and dynamic features such as a therapy car, kitchen/laundry/bath setting and a porch texture garden, all to teach patients how to resume activities of daily home living in a safe environment.</p> |

**Cameron Stiles, Senior Director of Design Services****Project Role:** Behavioral & Medical Expertise - Interiors**Relevant Experience:**

Ms. Stiles brings over 40 years experience in a wide range of project types, including a long history of healthcare, institutional, and workplace design. In every endeavor she undertakes, she commits herself to providing a level of service and attention to detail that is unmatched. Her remarkable contributions to healthcare and institutional design have been recognized by the industry, leading to her well-deserved title of Fellow of the American Society of Interior Designers (ASID). She is involved in all aspects of professional interior design practice with special emphasis in programming, space planning and project management.

Education:

Bachelor of Fine Arts
Interior Design
Virginia Commonwealth University

Registrations:

NCIDQ: #6080
DPOR: #0412000018
LEED AP

Work History:

37 years with this firm
5 years with other firms

Representative Similar Projects:**Rockingham Memorial Hospital (RMH), Rockingham, VA**

25 years of providing interior design facility support
-Renovations for 500,000 SF former hospital facility
-Design services to furnish their new 620,000 SF Greenfield Hospital Project Manager & Interior Designer

Harrisonburg Rockingham Community Services Board, Arbor House, Short Term Crisis Stabilization Center , Rockingham, VA

New Construction of residential center, 6-8 beds for short-term care 16,000 SF facility Project Manager & Interior Designer

RMH Medical Office Building Renovations, Rockingham, VA

Design study of existing 25,000 administration building
Project Manager & Interior Designer

RMH Womens Center, Rockingham, VA

Development of FF&E budget, Space Assessment and Inventory
Project Manager & Interior Designer

VDH - Norfolk Southampton Space Assessment, Norfolk, VA

Evaluation and consolidation of existing facilities
Project Manager & Interior Designer

VDH - Norfolk Little Creek Facility Space Assessment, Norfolk VA

Evaluation, program and space planning
Project Manager & Interior Designer

VSU Academic Commons Programming, Petersburg, VA

120,000 SF Programming of new academic building
Project Manager & Interior Designer

4.2 Project Characteristics

- Conceptual Building & Site Designs, including Narratives
- Work to be performed by CBH
- Required Permits
- Impacts of the Project
- Proposed Schedule
- Applicable Standards
- Assumptions & Contingencies

4.2.1 Project Description

Design Approach

For years, the only alternative for those facing a mental health crisis, and those who love them, has been hospitalization. While there are times when hospitalization is necessary and helpful, in many instances the experience provides only momentary relief and can cause trauma that worsens the person's condition. This is particularly true for individuals that suffer long term, lower level mental illness. For many, the prospect of going to a hospital is so off-putting that they choose not to seek treatment until their condition has worsened considerably.

Society and government are now hearing what providers and those they treat have been saying for years: provide an alternative to hospitalization. The development of community-based Crisis Receiving Centers and Crisis Stabilization Centers is the answer to this cry. The goal of the CITAC, CRC and CSU is to provide a safe entry point to seek and be evaluated for treatment. It also allows police and emergency personnel a convenient place to bring individuals for professional evaluation, allowing them to return to their work.

In our approach to designing these projects, we focus on healing and wholeness. Images of respite and retreat come to mind. Light and air. At the same time, safety and making the building easy for staff to do their jobs are particularly important when serving those with behavioral health needs. The individuals being treated will have a range of issues they are dealing with, and the building design should make responding to those needs as easy as possible.

The Design

The main building entrance is designed to be light and airy, recalling more the image of a health spa than a hospital. The entrance is convenient to both the CITAC and the CRC, as those areas are usually the first point of entry for self-admissions. Security, Triage and Consult Rooms are located nearby, providing appropriate and safe spaces to assess their needs. The Children's Waiting and Holding Rooms are also close to the Waiting Room allowing immediate transfer without additional contact with adult patients.

A sallyport is discreetly located on the opposite side from the main entrance and is the entry point for police to bring individuals into the Crisis Intervention Team Assessment Center for evaluation and possible transfer to the hospital or to the CRC. The CITAC is also close to the Waiting Room in case entry into the CRC is not immediately available or appropriate for someone entering through the front door.

The Crisis Receiving Center is located close to the main entry and beside the CITAC. In the CRC, staff is able to assess whether an individual's immediate crisis has passed and they are able to move back into the community with appropriate follow-up services. For those needing additional time and treatment, transfer to the nearby CSU is available. For those needing a higher level of treatment, transfer to a hospital may be appropriate. The CRC has been designed with easy sight lines from the staff observation desk. The space for chairs has been divided into two areas, allowing for some opportunity to spread people out. The CRC Manager has been located nearby so they can better keep in touch with the program and assist when needed. Both the CITAC and CRC feature clerestory windows in the seating areas to provide ample light and views to the sky, while keeping glass high to lessen accidental breakage.

The Crisis Stabilization Unit is located at the end of the building away from the CITAC and CRC with views to the existing woods. Consistent with the goal of providing a person-centric, safe place of healing and respite, we have labeled the Exam Rooms as Bedrooms. Access to a secured outdoor space, which can be made larger if desired, is located off the Activity & Dining Area. The outdoor space is designed so that it can be easily monitored by staff.

Clinicians are located such that they can help monitor the entrances to the unit and be close to those they are assisting. Currently they are shown within the unit, but the door to the unit could be moved to place them outside the secured unit area if desired. A second seclusion room was not included in the CSU as seclusion rooms are considered by many to be detrimental to healing and are perhaps inconsistent with the goals of this type of program. Individuals going into the CSU have been judged stable enough to be in a non-hospital setting so seclusion should not be necessary; however, if the need arises, the seclusion room at the CRC can be accessed without entering the main seating area of the CRC.

Peers have been located off the main hall that joins the CITAC, CRC and CSU as they may be helpful for all of these programs. The medication workroom and lab are also on this hall so that these shared spaces are close to the care centers. Emergency services staff, therapist, and psychiatrist are likewise centrally located. An employee entrance doubles as a service entrance for nourishment, clean utility and laundry.

Water/sprinkler entrance and an electrical room are located where those services will enter the building. A small, centralized IT space has also been included. The design purposely keeps the circulation straightforward with good sight lines to assist with monitoring, as well as strategically located staff and program space, with secure doors into the CITAC, CRC and CSU. Possible expansion space is indicated off the CRC as this program may eventually require additional space, particularly if a child and youth CRC is added in the future.

The exterior of the building has been designed to carry forward the theme of retreat. Stone and siding provide texture, offering a welcoming exterior. Generous glass in the waiting room creates an inviting, sunlit entry with views to a small grove of trees planned to the East. Metal roofs soften the roof edge and break up the building into smaller elements.

The building has been oriented on the site so that the main entrance faces away from the Existing Eastern State Hospital. Ample parking, in line with county requirements, has been provided. A separate entrance for the sallyport has been provided as requested, as well as a few additional spaces for police, all away from the main entrance. The building location works with the existing topography of the land to reduce the amount of sitework that will be needed for construction.

Following are the following documents to illustrate the Conceptual Design:

- Renderings of the Entry side of the building
- Floor Plan
- Site Plans
- Conceptual Specifications and Narratives.



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ASSOCIATES**
ARCHITECTS



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ARCHITECTS



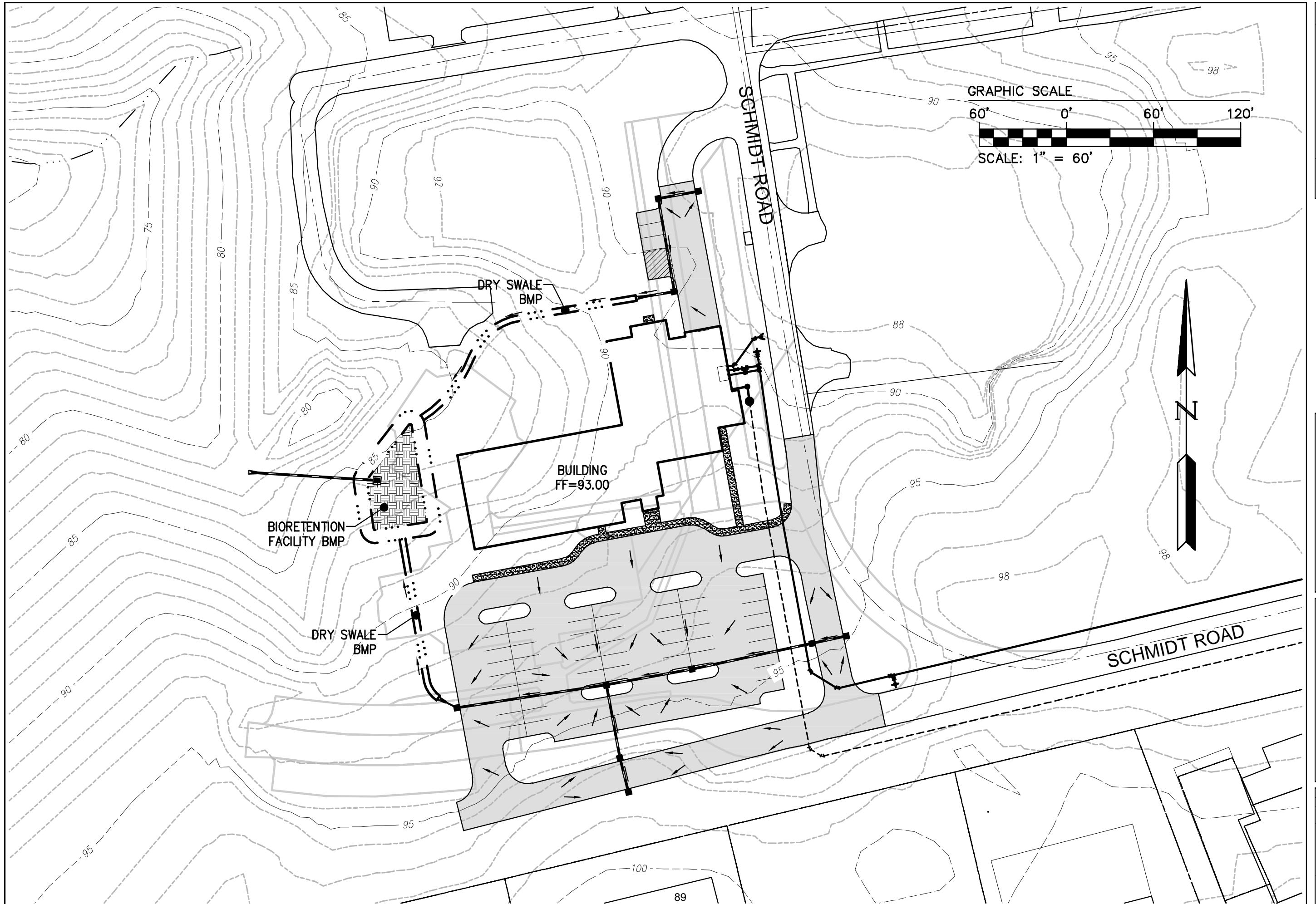
FLOOR PLAN

COLONIAL BEHAVIORAL HEALTH
CRISIS SERVICE CENTER
WILLIAMSBURG, VA

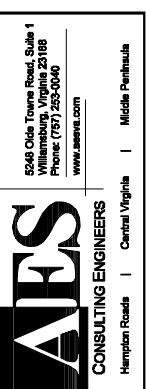
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JULY 15, 2024

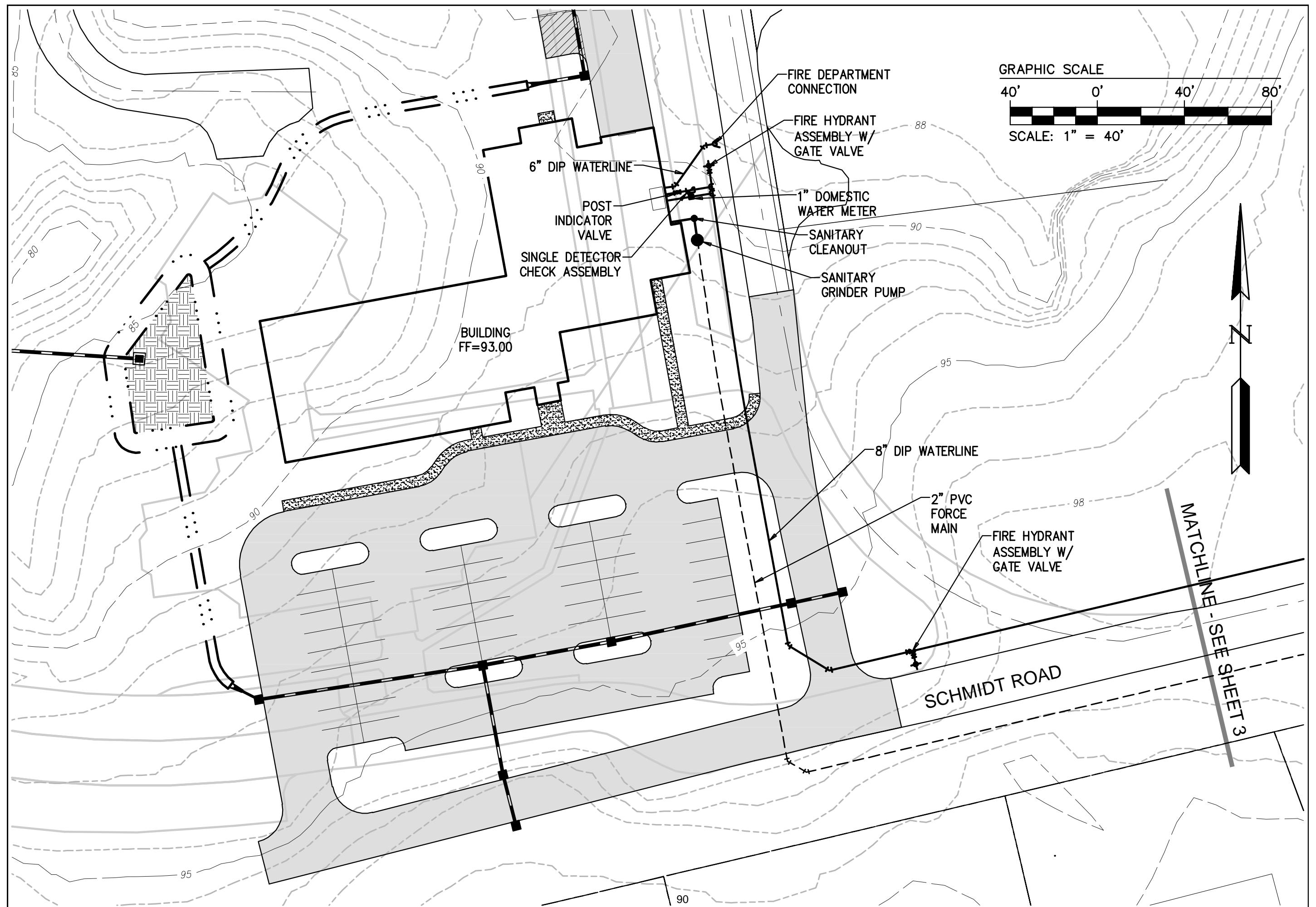
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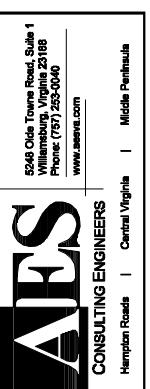
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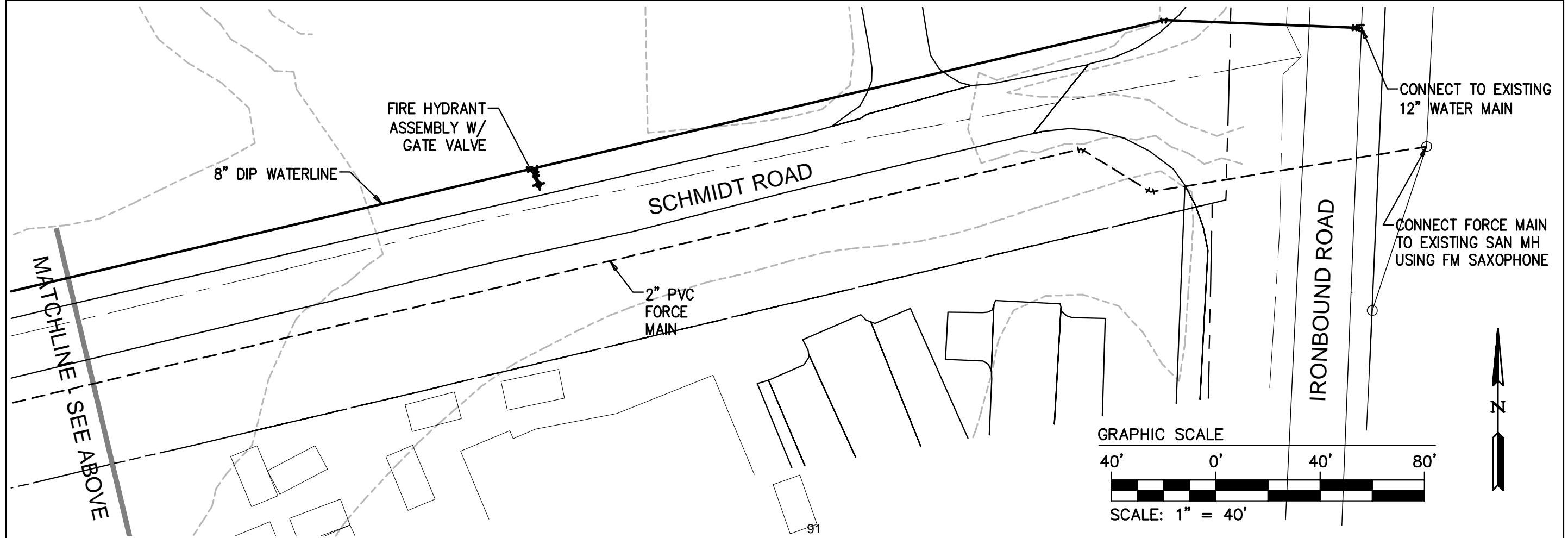
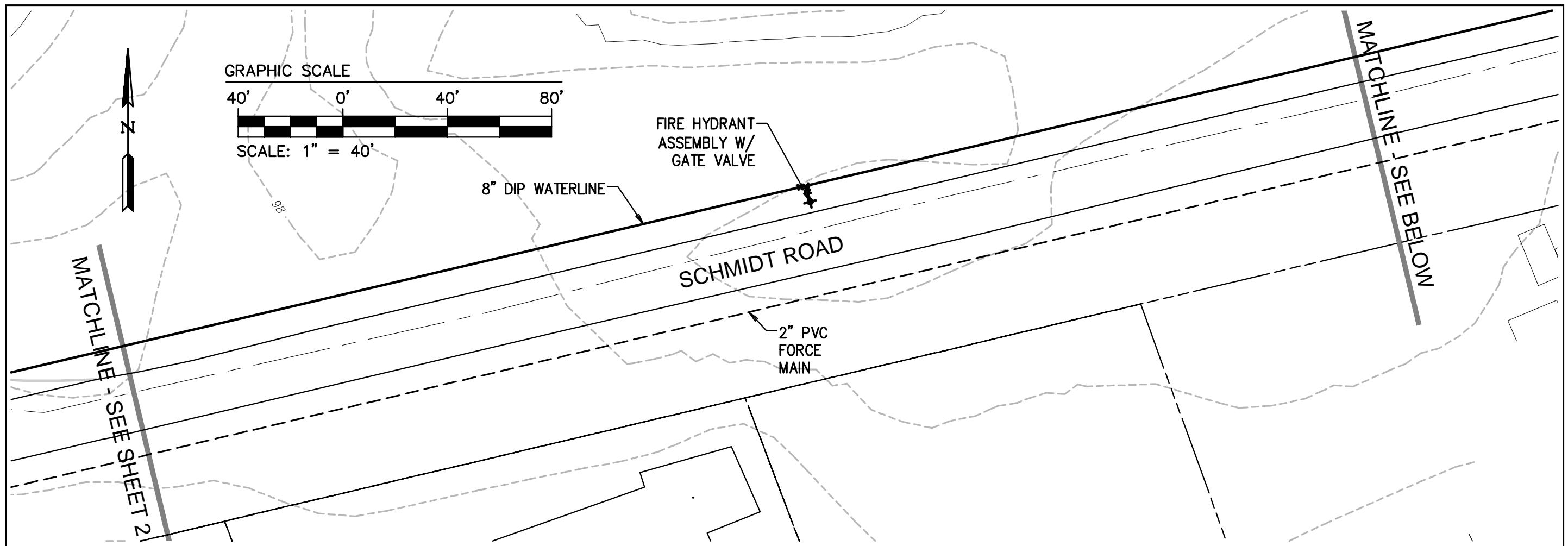


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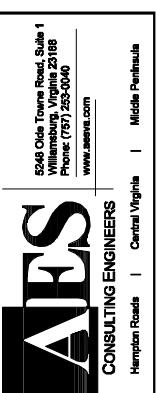


CONCEPT PLAN FOR
COLONIAL BEHAVIORAL
HEALTH
3 SCHMIDT ROAD
JAMES CITY COUNTY, VIRGINIA

| | |
|------------------|-------------------|
| Project Contact: | GVC |
| Project Number: | 20240303 |
| Scale: | Date: |
| 1"=40' | 7/12/2024 |
| Sheet Title: | CONCEPT UTILITIES |
| Sheet Number | 2 |



| Rev. | Date | Description | By |
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CONCEPT PLAN FOR
COLONIAL BEHAVIORAL
HEALTH
3 SCHMIDT ROAD
JAMES CITY COUNTY
VIRGINIA

Project Contact: GVC
Project Number: 20240303
Scale: 1"=40' Date: 7/12/2024
Sheet Title: CONCEPT UTILITIES
Sheet Number 3

4.2.1 Preliminary Architectural Specifications

PART 1 - GENERAL REQUIREMENTS

PART 2 - EXISTING CONDITIONS

2.1 BUILDING DEMOLITION

- A. Remove existing building, including foundations, completely within new building footprint and to 2' below finished grade elsewhere.
- B. Provide asbestos abatement in accordance with Owner provided study.

PART 3 - CONCRETE

3.1 CAST-IN-PLACE CONCRETE

- A. See Structural narrative.
- B. Vapor barrier (retarder): 15-mil thick, ASTM E1745 Class A, and installed properly sealed.

PART 4 - MASONRY

4.1 SIMULATED STONE VENEER SYSTEM

- A. Simulated Stone Units:
 - 1. Manufacturer: Casa di Sassi
 - a. Series: Ledgerstone
 - b. Color: Gola
- B. Accessories: Provide the following:
 - 1. Water table: 3" x 3" x 24".
 - 2. Provide accessories as needed for receptacles and hose bibs.
- C. Membrane Flashing: 50 mil composite flexible flashing consisting of 3 oz/sq ft solid sheet of annealed copper, which is laminated on one side with polyester film and bonded on the other side with a highly adhesive, rubberized asphalt with a removable silicone liner.
 - 1. Membrane Flashing Primer: One component, solvent-base, high tack primer designed to promote maximum adhesion of membrane.
 - 2. Membrane Flashing Mastic: Rubberized asphalt based adhesive as recommended by membrane manufacturer to seal all horizontal terminations, seams, laps, protrusions and accidental cuts or punctures.
 - 3. Metal Drip Edge Thru-Wall Flashing: Preformed stainless steel, ASTM A666, Type 304, soft temper; 24 gauge minimum thickness; smooth finish; "#FTS Drip Plate" by Hohmann & Barnard, Inc. or approved equivalent.
- D. Moisture Barrier:
 - 1. Bottom Layer: Must meet the requirements of ICC-ES AC 38.

2. Top Layer: Must meet requirements of ASTM D226 for #15 or #30 asphalt saturated felt.
- E. Metal Lath: All lath and lath attachments must be made of corrosion resistant material. Self-furred 2.5 lb. metal lath meeting ASTM C 847. 3.4 lb., 0.375" rib lath meeting ASTM C 847, for open stud applications (no sheathing). Self-furred 17 or 18 gauge woven wire mesh meeting ASTM C 1032. Use of flat woven wire mesh meeting ASTM C 1032 is also acceptable but must be attached using self-furring fasteners.
- F. Fasteners/Attachment Devices: Galvanized nails, staples or screws that penetrate the stud (min. of 1"). Corrosion resistant, self-tapping screws with a 7/16" head that provides 3/8" minimum penetration beyond the inside metal surface.
- G. Mortar Materials:
 1. Masonry Cement: ASTM C270, Type N or S.
 2. Colored mortar, selected from manufacturer's full range.
 3. Joint tool style to be selected.
- H. Mock-up: Provide sample panel of approximately 4' x 4' size to include cast stone and mortar jointing and represent workmanship quality.

PART 5 - METALS

5.1 STRUCTURAL STEEL AND COLD FORM METAL FRAMING

- A. See Structural Narrative

PART 6 - WOOD & PLASTICS

6.1 ARCHITECTURAL WOODWORK

- A. Plastic-Laminate-Finished Casework:
 1. Style: Frameless construction, flush overlay.
 2. AWS Section 10, Custom grade.
 3. Exterior and Interior Exposed Surfaces: High Pressure Decorative Laminate; NEMA LD 3; color, pattern, and surface texture as selected; over particleboard.
 - a. Horizontal Surfaces: HGS; 0.048 in thick.
 - b. Vertical Surfaces: VGS; 0.028 in thick.
 - c. Cabinet Liner: CLS; 0.020 in thick.
 - d. Backing Sheet: BKL; 0.020 in thick.
 4. Semi-Exposed Surfaces:
 - a. Typical Locations: High-pressure decorative laminate over particleboard.
 5. Color: as selected from manufacturer's full range.
- B. Counter Tops: Synthetic Solid-Surface-Finished, Grade 2.
 1. Edge: Square with eased corners.
 2. Splash Top Profile: Square with eased corners.

PART 7 THERMAL & MOISTURE PROTECTION

7.1 INSULATION

- A. Perimeter Slab Insulation: 2-inch thick extruded polystyrene board.
- B. Composite Wall Sheathing Board (Polyisocyanurate):
 - 1. Description: Composite lamination composed of glass faced closed cell polyisocyanurate foam core with an exterior layer of fire treated plywood, factory bonded.
 - 2. Polyisocyanurate: Comply with ASTM C1289, Type V.
 - 3. Plywood: APA-rated Structural I; Exposure Durability 1; sanded face; Class A Fire Classification.
 - 4. Thickness: 2-1/4 inches total; 1-1/2 inch foam core with 3/4 inch plywood.
 - 5. Thermal Resistance: R-Value of 10.
 - 6. Product Quality Standard: Atlas Roofing Corporation 'EnergyShield Ply Pro', or approved equivalent.
- C. Wall Batt Insulation:
 - 1. Exterior Walls: R-13 unfaced fiberglass batt.
 - 2. Above Ceilings: R-38 unfaced fiberglass batt.
- D. Roof: See roofing.

7.2 RAINSCREEN

- A. Provide over sheathing behind siding and synthetic stone.
- B. Product: Equivalent to Zip System Rainscreen.

7.3 EXTERIOR SIDING AND TRIM

- A. Siding: Wood/aluminum hybrid composite
 - 1. ASTM E84 Class A.
 - 2. Basis of Design: "Vertigo 5010" by Geolam (www.golaminc.com).
 - 3. Siding shall be installed vertical and/or horizontal as shown.
 - 4. Provide interior and exterior corners by same manufacturer.

7.4 STANDING SEAM METAL ROOFING

- A. Section includes all labor, materials, tools, equipment and services to furnish and install metal roofing, flashing, trim, gutters, downspouts and such other accessories to make the system complete and weathertight, as indicated on the Drawings and specified herein.
- B. Design Requirements:
 - 1. Wind Uplift Resistance: UL 580; Class 90.
 - 2. Air Infiltration: Limit air leakage through roof assembly to 0.03 cfm/sq ft of wall area, measured at reference differential pressure across assembly of 6.24 psf when tested in accordance with ASTM E283.
 - 3. Water Leakage: None, when measured in accordance with ASTM E331 with test pressure of 6.24 psf.
 - 4. Seismic Loads: Design and size components to withstand seismic loads and sway displacement as calculated in accordance with applicable code.
 - 5. Gutter and Downspout Components: Conform to applicable code for size and method of rainwater discharge.
- C. Warranty
 - 1. Furnish two-year Installer's warranty for sheet metal products against water penetration.

2. Furnish 35-year manufacturer warranty for metal finish against fading, chipping, chalking, and blistering.
3. Furnish 25-year manufacturer warranty for structural failure.

D. Products:

1. Standing Seam Metal Roofing: Factory formed metal roofing panel system with concealed fasteners.
 - a. Panel Materials: Pre-finished galvalume steel sheet; 24 gauge base metal thickness.
 - b. Panel Width: Nominal 16 inches.
 - c. Panel Profile: Flat.
 - d. Seam Type: Snap-lock standing seam.
 - e. Seam Height: 1-1/2 inches.
 - f. Color: Charcoal Gray.
 - g. Product: Englert Series 1000.
2. Sheet Metal Materials:
 - a. Pre-Finished Galvalume Steel Sheet: ASTM A755/A755M coil coated.
 - b. Base Metal: ASTM A792/A792M; Structural Quality, Grade 50; AZ50 aluminum-zinc alloy coating.
 - c. Exposed Finish: Minimum two coat fluoropolymer coating with minimum 70 percent polyvinylidene fluoride resin.
3. Waterproof Underlayment:
 - a. ASTM D1970; self adhering polymer modified bituminous sheet material, slip resistant surface, 40 mils thick, 36 inches wide, with strippable release paper to expose adhesive surface.
 - b. Basis of Design: 'Ice & Water Shield' as manufactured by Grace Construction Products, or approved equivalent.
4. Gutters: Prefinished aluminum 6" K-style.
 - a. Gutter Guards: Mesh stainless steel screen sized for gutter depth in 3 foot lengths; hinged type.
 - b. Install gutters using hidden hangers with screws.
5. Downspouts: Prefinished aluminum 3" x 4" downspouts.

7.5 SINGLE PLY ROOFING - MECHANICALLY ATTACHED

A. Warranty:

1. Furnish 20-year manufacturer's warranty.
 - a. Wind Speed Coverage: Include damage resulting from maximum gusts of 90 miles per hour.
 - b. Coverage shall extend to the complete roofing system including roof membranes, roof cover board, insulation, copings, fascias, flashings, adhesives, fasteners, expansion joints, roof accessories and all related materials.

B. System Description: One-ply sheet membrane system with insulation, cover board, mechanically-attached membrane, flashings and related accessories.

1. .060 inch thick, white, reinforced TPO roofing membrane.
2. Product Quality Standard: "Sure Weld TPO Reinforced Membrane" as manufactured by Carlisle SynTec Systems, or approved equivalent.

C. Insulation Cover Board:

1. ASTM C1289, Type II, Class 1, rigid cellular polyisocyanurate roof insulation faced with glass-reinforced felt (GRF) each side; flat and tapered systems as indicated, with the following characteristics:
 - a. Compressive Strength: 80 psi (ASTM C1289 Grade 3).
 - b. Flat Board Thickness: 1/2-inch.
 - c. Thermal Resistance: Aged **R of 2.5**.
 - d. Board Edges: Square.
2. Label: Provide label of compliance with UL 1256.

D. Related Materials: Flexible flashings, adhesives, primers, sealants, cleaners, pre-molded inside/outside corners, pipe flashings, sealant pockets, fasteners, and expansion joints shall be as recommended by membrane manufacturer, or as shown on the drawings with the approval of the manufacturer. Include all other materials as required for a complete installation.

1. Flexible Flashings: Same material as membrane; white color.

E. Accessories:

1. Metal Coping System: Pre-finished (PVDF), snap-on coping system, 22 gage (min.) with galvanized steel intermittent clips.
2. Roof Drain: Drain bowl sized as required for roof area, with dome strainer, clamping collar/gravel guard, underdeck clamp and flexible bellow connection to drain piping.
3. Walkway Pads: As recommended by membrane manufacturer in 30" x 30" size with a 6" space between each walkway pad for proper draining of roof system.

PART 8 – OPENINGS

8.1 STEEL FRAMES

A. Interior Frames: ANSI A250.8, shop fabricated welded steel frames:
1. Steel sheet: Nominal 16 gage material; galvannealed to ASTM A653 A60.

8.2 INTERIOR WOOD DOORS

A. Flush Wood Doors: 1-3/4" flush, solid core construction, five-ply construction non-rated.
1. Performance Duty Level: WDMA I.S. 1A.
2. Solid Core, Non-Rated: AWI AWS Section 9, Type PC5
3. Internally reinforce doors with solid blocking for hardware attachments.
4. Interior Veneer Facing: AWI Premium quality wood, plain sliced - Select White Birch with book-matched grain, for transparent finish. Pair match multiple door leaves in single opening.

B. Shop Finishing:
1. Factory finish doors in accordance with AWI AWS Section 5; Premium Grade.
2. Stain and transparent finish of satin sheen, catalyzed polyurethane to match approved sample.

C. Glass: Single pane, clear, tempered glass set in matching wood stops.

8.3 ALUMINUM STOREFRONT

- A. Aluminum storefront: Kawneer (or similar)
- B. Finish: Permafluor high performance organic finish, 70% PVDF, AAMA 2605, color as selected from standard.
- C. Storefront: Kawneer Trifab VG 451-T, 2" x 4 1/2" thermally broken frame.
- D. Main exterior entry door & frame: Kawneer Trifab VG 451-T, 2" x 4 1/2" thermally broken frame. Kawneer 350 medium stile swing doors, 1-3/4" thick, with 3-1/2" stiles and top rail, with optional 10" bottom rail, insulated glass. Hardware: continuous hinge, HC accessible threshold, closer, CO-9 pull, CP-II push bar, and key cylinder.
- E. Main interior entry door & frame: Kawneer Trifab VG 451, 2" x 4 1/2" frame. Kawneer 350 medium stile swing doors, 1-3/4" thick, with 3-1/2" stiles and top rail, with optional 10" bottom rail, insulated glass. Hardware: continuous hinge, closer, CO-9 pull, CP-II push bar



F. Corridor doors to exterior: Kawneer Trifab VG 451-T, 2" x 4 1/2" thermally broken frame. Kawneer 350 medium stile swing doors, 1-3/4" thick, with 3-1/2" stiles and top rail, with optional 10" bottom rail, insulated glass. Hardware: Butt hinges, HC accessible threshold, closer and exit devices at Corridors and Staff Lounge.

8.4 OVERHEAD DOOR

A. Provide 12' wide x 10 high heavy duty, overhead acting, insulated door for Sallyport.

8.5 DOOR HARDWARE

A. General: See narrative from security consultant for delayed egress, access control and remote access hardware.

4. Access Control: Medication and doors from corridor into CITAC, CRC and CSU
5. Remote Access: Waiting Room Door
6. Delayed Egress: doors from corridor into CITAC, CRC and CSU

B. Panic Hardware:

1. Provide at exterior doors and corridors doors.

C. Morticed Locksets: ANSI Grade 1 with ligature resistant handles in CITAC, CRC and CSU areas, including offices in CSU. Provide as follows:

1. Storeroom locks: Electric, IT, Water
2. Office locks: All other doors, except as noted below.
3. Controlled Access Latches: Provide at entrances to units, Medication, Lab, Nourishment, Soiled Holding Rooms, Clean Utility, Security Offices, and Triage
 - a) Toe Pull: Provide entrances to Units.

D. Closers:

1. Ligature resistant tin CITAC, CRC and CSU.
2. Standard surface mounted closers in other areas, LCN 4041XP, or equal.

E. Hinges:

1. Double acting continuous hinges: Typical on CSU bedroom doors; patient bathrooms in CITAC, CRC and CSU; Seclusion Room; and CSU Group Room and CRC Quiet, Quiet Activity, Telemed, and Milieu Rooms.
2. Other areas: ANSI A156.1, full mortise, ball bearing type, 4-1/2 inch heavy weight ball bearing typical for 1-3/4 inch doors.

8.6 GLAZING

A. Storefront Glazing:

1. 1" insulated.
2. Interior glazing panels shall be laminated glass in all patient areas.
3. Exterior color: blue, blue green or gray tinted.
4. Low-E.

B. Doors: Allow for 9" wide x 32" high lites in office, corridor, and break room doors.

1. Laminated glass in patient area doors.

PART 9 – FINISHES

9.1 METAL FRAMING & GYPSUM BOARD ASSEMBLIES

- A. Framing Components: Comply with ASTM C645; **20-gauge minimum**, galvanized steel stud assemblies, 16 inches on center minimum, unless indicated otherwise.
- B. Board Materials:
 - 1. CITAC, CRC, CSU, corridors and Waiting Room Toilet Rooms walls and Seclusion Room ceilings: 5/8" USG Sheetrock Mold Tough VHI Firecode Core Panels or equal.
 - 1. Tile Backup for walls: ANSI A 118.9, high density, cementitious with glass fiber reinforcing, 5/8 inch thick x 48 inches wide, USG Durock Cement Board or equal.
 - 2. Walls in Laundry, Soiled Holding, and Toilet Rooms not noted otherwise: 5/8" USG Fiberock Aqua-Tough Water Resistant Panel or equivalent.
 - 3. Gypsum Board where not noted otherwise: ASTM C36; 5/8 inch thick, maximum available length in place; ends square cut, tapered edges.
 - 4. Ceilings: 1/2" Thick, except as noted otherwise
- F. Sound Attenuation Blankets (Batts): Non-combustible, lightweight, semi-rigid stone wool batt insulation to ASTM C655, Type 1, friction fit type.
 - 1. Product Quality Standard: ROXUL INC., "ROXUL AFB".
 - 2. Provide standard in all walls.
- G. Installation:
 - 1. Extend partitions extending stud framing through ceiling to structure above.
- H. Finishes in accordance with GA-214 Level:
 - 1. Level 1: Above finished ceilings concealed from view.
 - 2. Level 4: Walls and ceilings exposed to view.

9.2 TILE

- A. See Interiors for tile products.
- B. Waterproofing/Uncoupling Membrane: Schulte-Ditra system including the following additional components:
 - 1. Schluter-Kerdi-Band waterproofing strip (turned up against wall) at perimeter of Schluter-Ditra membrane and at joints in the uncoupling membrane
 - 2. Schluter-Kerdi-Kereck-F at corners
 - 3. Schluter-Kerdi drain, with 4" square polished stainless steel grate.
 - 4. At the floor drain, provide Schluter-Kerdi waterproofing membrane to overlap the joint between the uncoupling membrane and the floor drain.
- C. Grout:
 - 1. ANSI A118.3, epoxy "stainproof" grout, Kerapoxy IEG by MAPEI or equivalent.
 - 2. Joint size: 1/8"

9.3 RESILIENT FLOORING

- A. See Interiors.

9.4 CARPET

A. See Interiors.

9.5 ACOUSTICAL PANEL CEILINGS

A. See Interiors.

9.6 PAINTING

A. Schedule – Exterior Surfaces

1. Metals:
 - a. One coat of acrylic waterborne, corrosion resistant, industrial primer coating.
 - b. Two coats of acrylic waterborne, corrosion resistant, industrial coating, semi-gloss.

B. Schedule – Interior Surfaces

1. Metals:
 - a. One coat of latex acrylic metal primer.
 - b. Two coats of acrylic-modified alkyd industrial enamel, semi-gloss.
2. Wood / Painted (Opaque):
 - a. One coat latex acrylic primer sealer.
 - b. Two coats latex acrylic, semi-gloss.
3. Gypsum Board Walls:
 - a. One coat latex acrylic primer sealer.
 - b. Two coats latex acrylic, eggshell.
4. Gypsum Board Ceilings:
 - a. One coat latex acrylic primer sealer.
 - b. Two coats latex acrylic, flat.
5. Wall and Ceiling Surfaces in Toilet Rooms:
 - a. One coat latex acrylic primer sealer.
 - b. Two coats latex acrylic, semigloss.

PART 10 SPECIALTIES

10.1 TOILET ACCESSORIES

A. Grab Bars:

1. BOBRICK B-5806 Series typically.
2. Provide ligature resistant horizontal and vertical grab bars in CITAC, CRC and CSU.

B. Paper Towel Dispenser:

1. Provide in staff and Waiting Room Toilet Rooms.
2. Semi-recessed Mounted Automatic Paper Towel Dispenser: BOBRICK B-29744, satin finish stainless steel cabinet with electronic sensor operation. Accommodates rolls up to 8" wide x 8" dia. with adjustable towel lengths (8", 12" or 15").

C. Toilet Paper Dispenser:

1. Recessed Mount Toilet Paper Holder: BOBRICK B-6997, double roll.
2. CITAC, CRC and CSU patient bathrooms: Provide ligature resistant semi-recessed dispenser, BOBRICK B-9882

D. Sanitary Napkin Disposal:



1. Bobrick B-4353, recessed, stainless steel.
2. Provide in each toilet and bathroom.

E. Mirror:

1. BOBRICK B-165 Series, 18" x 30". One-piece channel frame, $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ ", with bright polished finish and mitered corners.
2. CTAC and CRC: Provide stainless steel mirrors: Stretcher leveled stainless steel with reflective, highly polished strip finish.
3. CSU: Provide mirror with laminated glass in ligature resistant frame

10.2 WALL PROTECTION SPECIALTIES

A. See Interiors Narrative.

10.3 FIRE PROTECTION SPECIALTIES

A. Section includes fire extinguishers and fire extinguisher cabinets as follows:

1. Provide extinguishers classified and labeled by testing firm acceptable to authority having jurisdiction for purpose specified and indicated; comply with NFPA 10.
2. Fire Extinguishers: Dry chemical type; cast steel tank, with pressure gage; Class B:C, Size 5 lb.; enamel finish.
3. Cabinets: Larsen or equivalent.
 - a. Formed stainless steel; 0.036 inch thick base metal.
 - b. Configuration: Semi-recessed type, sized to accommodate extinguisher.
 - c. Door: 0.016 inch thick, reinforced for flatness and rigidity; latch access, secured with Larsen Lock.
4. Allow for four cabinets and extinguishers.

10.4 SIGNAGE

A. Section includes plastic plaque wall signs with raised letters, pictograms and Braille.

B. Raised Letter Signs:

1. Provide signs with ligature resistant design
2. Accessibility Symbols and Braille: Comply with ADA.
3. Finish and Contrast: Comply with ADA.

C. Installation: Tamper-resistant fasteners.

PART 11 EQUIPMENT

11.1 ROLLER SHADES

A. Provide motorized roller shades with remote control for the following windows:

1. Large array of high windows in CITAC Seating Area
2. Large array of high windows in CRC Seating Area (two locations)

B. Provide key operated controls, located at the Staff Desk

11.2 APPLIANCES

A. Provide an allowance for the following appliances for break room:

- 1. Refrigerator: side by side, stainless.
- 2. Dishwasher: residential, quiet type, stainless.
- 3. Microwave (on shelf).

MECHANICAL & ELECTRICAL WORK

Refer to MEP narrative.

GRADING, PAVING, SIDEWALKS, STORMWATER AND UTILITIES

See Civil drawings.

4.2.1 Project Description: Structural Narrative

1.1 Foundations

- A. The foundation system to be typical spread footings bearing on undisturbed soil with an assumed allowable bearing capacity of at least 3,000 psf.
- B. Assumed Seismic Site Class D.
- C. The typical slabs-on-ground will be 4" thick normal weight concrete with welded wire fabric. Some slabs may be depressed for special flooring. The slab within the Sally Port footprint will be 6" thick.

1.2 Construction Type, Codes and Materials

- A. Structural steel framing (W-Shaped beams, open web steel joists and steel HSS columns) is proposed as the main framing type for the roof with cold formed steel framing making up the backup walls for the exterior wall system.
- B. Design Codes
 - 1. 2021 Virginia Uniform Statewide Building Code (VUSBC) (2021 IBC plus amendments)
 - 2. ACI 318-19 – “Building Code Requirements for Reinforced Concrete”
 - 3. AISC Manual of Steel Construction – Fifteenth Edition
 - 4. Steel Joist Institute – Standard Specifications for K, LH and DLH joists
 - 5. TMS 402/602-16 - “Building Code Requirements and Specification for Masonry Structures”
- C. Material Specifications
 - 1. Cast-In-Place Concrete
 - a. $f'_c = 3,000$ psi at 28 days for interior footings
 - b. $f'_c = 4,500$ psi at 28 days, with 6% (+-) 1.5% air for perimeter footings
 - c. $f'_c = 3,500$ psi at 28 days for slabs-on-ground.
 - 2. Masonry
 - a. Concrete Masonry Units – ASTM C90
 - b. Masonry grout – ASTM C476, $f'_c = 2,000$ psi
 - c. Structural Masonry – $f'_m = 2,000$ psi (Type S mortar)
 - 3. Reinforcing
 - a. Bars – ASTM A615 (Grade 60)
 - b. Welded Wire Fabric – ASTM A185
 - 4. Structural Steel
 - a. W-shapes, WT-shapes and Channels – ASTM A992, Grade 50
 - b. Plates and angles – ASTM A572, Grade 50
 - c. Square and Rectangular HSS shapes – ASTM A500, Grade C, $F_y = 50$ ksi
 - d. Round HSS shapes – ASTM A500, Grade C, $F_y = 46$ ksi
 - e. Other rolled shapes not listed above – ASTM A36
 - f. Bolts – ASTM A325

1.3 Special Features

- A. The building will be use type I-2 which will place it in Risk Category III, which will have increased loads.
- B. The roof will be flat and will support mechanical units.

1.4 Structural Systems

- A. Roof Construction
 - 1. 1½" galvanized steel roof deck supported by open web steel joists. W-Shaped steel beams will act as girders supported the joists and will frame into HSS steel columns. Joists will be spaced at 5'-0" oc and will span roughly 35 to 40 feet to the steel girders.
 - a. Joists will be in the range of 24K5 to 24K8.
 - b. Steel beams will span between 20 and 35 feet and will range from W14x22 to W21x44.

4.2.1 Project Description: Structural Narrative

- c. HSS columns will be HSS5x5x5/16, typical. They will be placed proud of the stud wall to allow the wall to pass by the perimeter roof beam for easier detailing of the parapet. Interior columns will be similar in size and worked out with the architectural layout to be hidden in and around walls. Assume a total of 40 columns.

B. Wall Construction

- 1. Typical exterior walls above grade will be 6" cold formed metal framing. If there ends up being brick veneer for full height of the building, the gage of the studs will increase in order to provide the proper stiffness.
- 2. Below grade exterior walls will be either 8" CMU or concrete with 4" CMU below the brick veneer.

C. Foundations

- 1. Foundations are expected to be standard spread footings for columns and continuous wall footings for exterior walls. Assume the wall footings will only be 2'-0" wide x 1'-0" around the entire perimeter and the spread footings will range from 4'-0" x 4'-0" x 1'-1" to 5'-6" x 5'-6" x 1'-2". Therefore, for estimating purposes, an average of (40) 5'-0" x 5'-0" x 1'-2" footings.

1.5 Lateral Force Resisting System

- A. The LFRS for the building will steel braced frames wherever possible. In certain areas, moment frames may need to be used if a braced frame doesn't fit. Braced frames will be more economical. For estimating purposes, assume (8) braced frames distributed around the perimeter of the building.

1.6 Loads

- A. Building Risk Category = III
- B. Design Floor Live Loads
 - 1. Floor = 100 psf
- C. Snow Load
 - 1. Ground Snow Load = 44 psf (ultimate)
 - 2. Snow exposure factor = 1.0
 - 3. Snow thermal factor = 1.0
 - 4. Flat roof snow load = 30.8 psf (ultimate) – Use 35 psf minimum (ultimate)
- D. Wind Design Data
 - 1. Basic wind speed = 125 mph (ultimate)
 - 2. Wind exposure category = B
 - 3. Internal pressure coefficient = 0.18
- E. Seismic Design Data
 - 1. Seismic importance factor = 1.25 (Risk Category III)
 - 2. Mapped spectral response accelerations: $S_s = 0.14$; $S_1 = 0.043$
 - 3. Site Class = The site class has not yet been determined anticipate it will be a Site Class D.
 - 4. Spectral response coefficients: $S_{DS} = 0.12$; $S_{D1} = 0.061$
 - 5. Seismic Design Category = A
 - 6. Steel Systems not specifically detailed for seismic resistance
 - a. $R = 3.0$
 - b. Overstrength factor = 3.0
 - c. $C_d = 3.0$

1.7 Special Considerations

- A. If brick is used as the full height veneer it will add mass to the seismic numbers and will require the exterior wall studs to be stiffer than if a non-brittle veneer is used.
- B. If the exterior HSS columns want to be buried in the exterior 6" stud wall, it makes the parapet detailing a little more difficult. If there is a parapet, depending on the height, the parapet may require some vertical angles welded to the top of the roof beam to attach the parapet framing to since the exterior studs will not be able to extend past the beam and cantilever up to create the parapet if steel is buried.
- C. At the roof top units, KCS joists will be used in order to take the additional load from the units.
- D. At the entry/waiting area, there may be a taller roof elevation which may result in a heaver gage exterior wall stud, depending on the height.

4.2.1 Project Description: MEP Narrative

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General

The project includes a new approximately 15,000 square foot Crisis Services Center (CSC) located at the site of the existing Building 3 at Eastern State Hospital in Williamsburg, VA. This will consolidate all CBH crisis services under one roof, including administration, Mobile Crisis, Emergency Services, Crisis Receiving Center, Crisis



Stabilization, and Crisis Intervention Team Assessment Center (CITAC). Site work will include the demolition of ESH Building 3, connection of water, sewer, storm, power, generator, gas, & sprinkler.

This project will support persons that may be looking for ways to hurt themselves, hurt others by way of weaponization of items with the space as well as damaging or tampering with the items in the space. Design and construction will accommodate providing a safe environment for these patients to limit the harm they can cause to themselves or others. The extent of the ligature resistant devices mentioned in this report should be included for the CITAC, CSU, and CRC areas completely. The administrative areas will not require ligature resistant devices. Devices this includes but is not limited to:

- Lights, switches and receptacles
- Thermostats and air devices
- Plumbing fixtures
- Fire alarm and fire suppression
- Low voltage items

Project Description

1. Owner: Colonial Behavioral Health (CBH)
2. Project Architect: Worley Associates
3. Project MEP Engineer: New Ridge Engineering
4. Project Type: Behavioral Health Clinic

General information and coordination drawings:

General contractor is expected to coordinate a fully accessible and operational system for all components of this building. Contractor will provide a complete set of coordination drawings for all systems in the building in accordance with these requirements. Coordination drawings will be generated utilizing NAVISworks, Revit or other approved software to complete these drawings. Architect and engineer's drawings shall not be considered installation or coordination drawings. General contractor shall coordinate all of their sub contractor's installations in this model. Agreement between subcontractors and general contractor/construction manager must delineate who is responsible for each part of the coordination drawings.

MEP equipment shall be installed in a manner to permit ease of service and the MEP contractors shall inform other trades of access requirement to prevent interference with same. Install all equipment in strict accordance with the manufacturer's instructions which shall be available at the job site.

All floor mounted MEP systems shall be provided with 4" housekeeping pads. Systems that will receive pad include but are not limited to:

- Transformers
- Electrical gear
- Water heaters
- Automatic Transfer Switches



Mechanical

Environmental Design Conditions

Summer Design Conditions

1. Outdoor Design Conditions: 92°F DB, 73.6°F WB
2. Indoor Design Conditions: 72°F DB, 60% RH max

Winter Design Conditions

1. Outdoor Design Conditions: 9.4°F DB
2. Indoor Design Conditions: 72°F DB, 60% RH max

Mechanical Systems

Packaged Rooftop Units

Mechanical supply systems will be comprised of four direct expansion packaged rooftop unit (RTU) located on the roof of the building surrounded by a screen wall. These roof top unit shall serve the each functional space (CSU, CITAC, CRC and Administration) via a variable air volume zoned systems with electric reheat.

Each unit shall be approximately 4500 CFM and 15 Tons.

The system shall have the following components:

- Return fan section with minimum direct drive plenum fans, variable speed drive.
- Economizer section with modulating outdoor air and relief air dampers.
- MERV-8 prefilter section.
- MERV-14 second filter section.
- DX Cooling coil section with variable speed compressors. Cooling coil casing and drain pan shall be stainless steel.
- UV lights in cooling coil section.
- Supply fan section with direct drive plenum fan, variable speed drive.
- Gas Heating coil, 50 MBH capacity, 4:1 turndown.
- Atmospheric humidifier section with minimum 50 lb/hr capacity, insulated dispersion tubes, maximum 12" dispersion distance. This will be supply by an adjacent roof mounted gas fired humidifier.
- Bottom supply and return duct connections.
- Roof curb with adequate height so that outdoor air intake is minimum 36" above finished roof.
- Double wall construction.
- 460/3 single point power connection with minimum 65kAIC SCCR rating.

Humidifiers

4 gas fired kettle type humidifier shall be provided with an outdoor enclosure and installed on a new roof curb adjacent to the RTU. A steam supply pipe shall be routed from each humidifier to the humidifier dispersion



section of each RTU. A return duct mounted humidistat shall be installed in the space for each humidifier to control the humidity levels.

Exhaust Systems

General Exhaust Systems:

Two new centrifugal down blast exhaust fans shall be provided to exhaust all the toilet areas, showers, and soiled rooms. Both shall be sized at approximately 1500 CFM and 2.0" of external static pressure.

Laundry Exhaust System

Laundry exhaust systems shall be directly vented, if possible, from each piece of equipment to the exterior. If that is determined to not be possible through the design a laundry booster fan system equal to with constant pressure duct control.

Sally Port Exhaust System

The Sally Port in the CITAC will require a vehicular exhaust system with snorkels that connect to a vehicle's exhaust system. There will be a roof mounted vent set fan associated with this system as well as a second exhaust system connected to a carbon monoxide sensor in the Sally Port which will engage when levels reach unacceptable levels. Grilles will be mounted low on the wall and be heavy duty and ligature resistant. High on wall ventilation intake louvers with motorized dampers shall be provided and shall be interlocked with the exhaust fans.

Dedicated Systems

Dedicated cooling systems shall be provided for the Demarc Room, Telecom, & Emergency Electrical rooms. The systems shall consist of a wall mounted evaporator and roof mounted condensing unit. The units shall each be nominal 4 tons of cooling. All units shall be BACnet compatible and be provided with a wall mounted thermostat. All units shall be capable of low-ambient cooling down to 0°F.

Gas-fired radiant heaters shall be provided for the sallyport area. High on wall ventilation intakes with motorized dampers shall be provided and shall be interlocked with the exhaust fans.

Control Systems

A Direct Digital control system shall be provided for the expansion and integrated into CBH's central control system interface if applicable. All VAV boxes, Water Heaters, thermostats, rooftop units, exhaust fans, and split systems shall be integrated into the control system. RTU's shall operate under factory mounted controls with down duct static pressure sensor control and critical valve reset. These shall be accessible to user identified staff via internet.

Air Distribution

Ductwork

Ductwork shall be minimum 26-gauge galvanized sheet steel with lock-forming joints. Medium-pressure supply ductwork between rooftop units and VAV boxes shall be minimum 4" pressure class. Low-pressure supply



ductwork downstream of VAV boxes shall be minimum 2" pressure class. Negative pressure return ductwork shall be minimum 2" pressure class. Negative pressure general exhaust ductwork shall be minimum 2" pressure class. Medium-pressure supply ductwork will be sized for a maximum of 2000 fpm velocity and a maximum of 0.3" W.C. per 100' pressure drop. All other ductwork will be sized for a maximum of 1500 fpm velocity and a maximum of 0.08" W.C. per 100' pressure drop.

All ductwork associated with dryer exhaust shall be in compliance with current international mechanical code requirements. Refer to 2018 International Mechanical Code Chapter 504.

Terminal Boxes

Supply terminal boxes shall be single duct shutoff VAV terminal boxes with electric reheat. Electric reheat coils shall be SCR controlled. All terminal boxes shall be double-wall type with no insulation exposed to the airstream. We are anticipating about 25 individually controlled zones (Terminal boxes)

Insulation

All supply air ductwork, outdoor air ductwork, and return air ductwork between outdoor air connections and rooftop units will be insulated with 2" Flexible Glass Fiber insulation.

Air Devices/Termostats

Patient Areas

Due to the function of the space all air devices and thermostats will need to be secured, locked and anti-ligature within the CITAC, CRC, and CSU Areas. Appendix A contains an example of a security supply and return grille. Thermostats will either be under a locking cover community areas or will be located in the return duct from each zone to prevent tampering and self-harm. There will be a central thermostat control station (touchpad wall mounted screen) in the CSU at the staff desk to allow staff adjustment of temperature in each bed or community area.

Thermostat covers shall be tamper and impact resistant, lockable clear, located in staff or staff-controlled areas.

Staff Areas

Supply air diffusers shall be Titus Omni or equal square plaque diffusers in administrative areas that are not accessible to the patients. Return and exhaust grilles shall be Titus 350RL or equal louvered grilles.

Condensate Drainage

Condensate drain piping shall be routed from each condensate drain connection on each rooftop unit and indoor cooling unit and routed to the nearest roof drain. Condensate drain piping outdoors shall be heat-traced and insulated from the rooftop unit connection to 5' past the trap.



Plumbing

Fixture Selection

CITAC/CSU/CRT Areas

Security within the patient care is a primary concern and all new plumbing fixtures in these areas will be ligature resistant type. Appendix B contains examples of the type of anti-ligature fixture that will be utilized. There is also an option in the CRC & CITAC unit report prepared by Currin Design Consulting. Refer to Currin Design consulting CRC & CITAC report for additional fixture options. The options will be discussed with the owner during the design phase.

Administrative Areas

- Water Closets – Wall and floor mounted vitreous china elongated bowl with automatic sensor flush valves and seat.
- Urinals - Wall mounted vitreous china with automatic sensor flush valves.
- Toilet room lavatory sinks – Wall-mounted vitreous china and counter mounted bowls with motion sensing faucets and code required ASSE 1070 mixing valves.
- Mop Receptor – Floor mounted, molded stone mop basin with brass service sink faucet with integral vacuum breaker and hose end spout.
- Break room and handwash fixtures will be stainless steel sinks with gooseneck faucet.
- Provide a Sioux Chief Ox Box or equal connection with shock arrestor for the following items:
 - Ice Makers
 - Coffee Makers
 - Hot or cold-water dispensers.
- Electric Water Cooler – Barrier free, dual level ADA compliant wall mounted water cooler with bottle filling station.
- Showers shall be pre-manufactured enclosure type.
- Non-freeze wall hydrants will be supplied every 100' around the perimeter of the building.
- The building's rooftop will be supplied with 2 freezeproof roof hydrant for maintaining the rooftop equipment.
- New electric water coolers with bottle fillers shall be provided where indicated on plans.
- All materials, testing and workmanship shall comply with all applicable codes, NFPA standards. Federal and state laws, specifications, local ordinances, industry standards and utility company regulations.
- All piping shall be installed concealed above ceilings, behind walls, in partitions or furred spaces unless otherwise noted. All services shall run overhead where possible, with valves accessible in the area controlled.
- All piping shall be adequately supported in accordance with standards of good practice and the piping manufacturer's recommendations.
- Pipe hangers shall be adjustable clevis, split ring, clip ring, variable spring or other type specifically approved by the engineer.



- For piping, identify specific contents of line and provide directional flow arrows using PVC pipe markers at the following locations:
 - Where pipe passes through walls, sheeting, or other obstructions (identify both sides).
 - Where pipe exits or enters ground or trench.
 - At valves (identify both sides if line continues) or at valve stations.
 - At all outlets, including vents and drains.
 - At 20-foot intervals on straight piping runs.
- Cover all new water piping except exposed fixture supplies. Covering shall be 1/2-inch-thick pre-molded fiberglass with vapor-barrier jacket as made by Knaff or 1/2-inch-thick foamed plastic without jacket, as made by Armstrong, Rubatex or approved equal.
- Tape, seal and join all joints in insulation material as recommended by the manufacturer.
- Fittings and valves shall be covered with Zeston PVC jackets on fiberglass installations and mitered in accordance with manufacturer's recommendations on foamed plastic installation.
- Provide cleanouts at base of all stacks, at changes of direction, not over 50 feet apart along straight runs and as shown on the drawings.
- Provide valved branches, accessible above floor, with suitable access panel, where required. Install valves above removable ceiling panels whenever practical.
- Service stops for water supplies to equipment shall be solder end brass globe valves with brass disc, equal to Nibco 211, on lines 1/2" or 3/4" size only.

Piping Design

Domestic Distribution

No water pressure test has been provided. It is suggested a new water pressure test be performed to determine whether or not a domestic booster pump and fire pump are required, due to added load.

New cold-water lines shall be extended to all new plumbing fixtures, as required.

Domestic hot water for all the new fixtures will be supplied by (3) 150 CFH tankless water heaters located in the water service entrance room. Water shall be delivered at 140 degrees F then mixed via a thermostatic mixing valve to 120 degrees F. An expansion tank shall be provided.

Provide isolation valves for each individual fixture and for each branch that serves four or more fixtures.

Two Grundfos Magna 3 recirculation pumps serve the hot water recirculation system with balance and isolation valves. Longest recirculation run to any fixture shall be limited to 5'. We are anticipating 2 recirculation loops at this time.

The domestic hot and cold-water systems shall consist of Type "L" copper pipe, all domestic water shall be insulated to meet the energy code.

Provide hot and cold supply/drain wall boxes for each clothes washer location in the Laundry area.



Irrigation

Provide allowance for irrigation backflow preventor routed to site landscaping. RPZ will either be located on site with separate meter to avoid sewer charges or within water room. Coordination to be determined with Civil during design.

Storm Drainage

A new storm drainage system with two 8" connections to site shall be provided. System shall be positively drained at a minimum of 1/8"/foot. Coordination to be determined with Civil during design.

Overflow drainage shall be routed to lamb's tongues located low on exterior wall and splash on grade with splash blocks.

All horizontal rain leaders and overflow rain leaders shall be insulated to prevent condensation through the elbow to the vertical.

6 Roof drain with an associated overflow drain are anticipated at this time.

Foundation drainage will be provided if found to be required by a geotechnical survey. Estimating contractor shall carry an allowance to account for this.

Storm piping below grade: ASTM A74-82 service weight bell and spigot cast iron.

Storm piping above grade: ASTM A 888 Hub-less cast iron with. 301 stainless steel couplings.

Foundation drain piping: ASTM F667 corrugated polyethylene.

Sanitary Piping

One new 6" sanitary sewer service shall be provided for the new building addition. System shall be sloped underground at a minimum of 1/8"/ft.

Fixtures shall all be vented via a dedicated venting system installed in accordance with all applicable codes and routed to the roof via 3" vent stacks.

All piping below grade and within chases to be Schedule 40, polyvinyl chloride (PVC), ASTM D2665 with NSF seal with Schedule 40 fittings, polyvinyl chloride, DWV pattern, ASTM D2665 with NSF seal.

All piping above grade shall be "no-hub" type cast iron with heavy-duty stainless steel band type fittings, meeting ASTM Standard C-564. Or Copper DWV hard temper seamless copper drainage tube, ASTM B306 with Joints.

Solder: ASTM B32, Grade 50B and cast bronze solder joint drainage type fittings, ANSI B16.23 or wrought copper solder jointdrainage type, ANSI B16.29.

Floor drains are to be provided in each toilet room with a shower, Janitor's Closet and in the mechanical rooms as required and as indicated on the plans. A Trench drain shall be provided in the Sally Port Area. Drain shall be 20' long with drive over capacity.

Floor drain/floor sink traps shall be protected from drying out with trap seals meeting ASSE 1072.



Natural Gas

One new 2" natural gas supply shall be extended from the street main into a perimeter mechanical room. A utility provided gas meter shall be located on the exterior of the building at the service entrance. The supply pressure must be at least 14 in WC at the meter.

Underground natural gas piping will be ASTM D2513 Polyethylene pipe with ASTM D2683 socket-fusion type fittings. Above ground natural gas piping will be ASTM A53/A53M, black steel, Schedule 40, Type E or S, Grade B with ASME B16.3, Class 150 malleable-iron threaded fittings.

Individual equipment supplies will be equipped with supply shutoff valves, drip legs, and pressure regulators as required. Any regulators will be vented to the exterior.

Natural Gas shall be provided for the Rooftop Unit's heating coil, sally port heaters, gas-fired humidifiers and domestic water heating loads.

Fire Suppression

The fire suppression scope of work for this project is an entirely contractor provided design. Contractor is responsible for the full design, calculations, hazard designations, etc. including professional engineering, permitting, and seals for a complete and functional system designed and installed in accordance with NFPA 13 and NFPA 14 and all other applicable codes and standards. Margin of safety for available water flow and pressure shall be 10% including losses through all appurtenances.

Current water pressure at building site is unknown. A flow test will need to be performed to determine whether or not a fire pump is required.

Provide a new fire suppression system for the entire building as part of this scope of work. Water shall be delivered from site connection to building via a 6" underground pipe to the water room. Coordination of fire department connection with Civil will be determined during design.

Install new sprinkler piping and sprinkler heads throughout the entire building footprint for a fully sprinkled building.

Provide dry pipe systems for any new canopies as required.

Contractor is responsible for all testing, startup, balancing and commissioning of the systems.

Aboveground piping will be black steel with threaded, grooved, or welded fittings. Piping 2" and smaller will be schedule 10 and pipe 2 1/2" and larger will be schedule 10. No plain-end fittings, strap-on branch outlets, or couplings employing set screws will be used.

Sprinkler Heads:

The use of security type sprinkler heads is anticipated in the patient care areas. Appendix C contains a cutsheet of the type of sprinkler head that is expected in those areas. Concealed recessed heads are expected elsewhere consistent with the current facility.



Sprinklers will be quick response, UL listed. Sprinklers shall be concealed recessed heads throughout the building and upright heads in areas without ceilings. Ligature Resistant heads shall be provided in the CITAC, CRC, and CSU areas. These shall be prefinished white, low profile ligature and tamper resistant type, IE Raven by Tyco).

The fire protection system will be monitored by the building fire alarm system. Monitor points will include trouble and alarm conditions for water flow switches and valve monitor switches.

The Authorities Having Jurisdiction shall approve sprinkler system

Sprinkler occupancy Hazard Classifications:

- Mechanical Rooms – Ordinary Hazard Group 1
- General Storage – Ordinary Hazard Group 1 – Stockpiles do not exceed 8'
- General Storage – Ordinary Hazard Group 2 – Stockpiles do not exceed 12'
- Office and Public Space – Light Hazard
- Patient Areas – Light Hazard

Electrical

Power Distribution Design

Service

A new single 1600A 480/277V Wye service is planned for the building. An exterior pad-mounted transformer will be provided by the utility company on the site, and conductors will enter the main service room from under the slab. These will terminate into a switchboard, which will contain the utility's CT cabinet. Service conduits will be routed underground through PVC conduit encased in a concrete duct bank.

Normal Power Distribution

Power will be distributed via a single switchboard. All circuit breakers in the main normal power switchboard will be molded case, electronic trip type. The switchboard will contain a CT cabinet for the utility connection, a main circuit breaker, and a distribution section.

Branch panels will be provided with either main lugs only (where only one circuit breaker serves the panelboard, and that circuit breaker is located in the same room) or an electronic-trip main circuit breaker. Branch circuit breakers will be thermal-magnetic, with breakers larger than 100A including an adjustable instantaneous-trip component. All branch panels will be door-in-door construction to allow easy inspection of internal wiring.

No sub-metering will be provided.

Emergency Power Distribution

Generator

A new natural gas generator will be provided. This generator will be within a size range of approximately 300 KW but will depend on equipment selected for service by the generator. This generator will be located near the Utility Transformer, and it will be provided with a Level 3 sound-attenuated enclosure. This generator will provide



backup power to all building functions. Arrangement of distribution for the transfer switches and utility connections will be vetted and determined during design.

Transfer Switches

Three new automatic transfer switches will be used. All will consist of the essential electrical system. One will serve the emergency functions of the building, and the other 2 will be priority 1 optional and priority 2 optional. The equipment branch will include anything not life safety required. The exact count of transfer switches will be determined based on owner requirements for loads, optimal load-shed/load-add programming, and generator starting capabilities.

All transfer switches will be located in the Essential Electrical Room. All transfer switches will be four-pole with a switched neutral.

Distribution/Branch Panels

Power will be brought from the generator to a two-section panelboard. The first section will contain a main circuit breaker and circuit breaker serving the life safety transfer switch. The second section will contain circuit breakers serving the equipment branch along with a load bank circuit breaker. All circuit breakers in this panelboard will be electronic trip.

Branch panels will be provided with either main lugs only (where only one circuit breaker serves the panelboard, and that circuit breaker is located in the same room) or an electronic-trip main circuit breaker. Branch circuit breakers will be thermal-magnetic, with breakers larger than 100A including an adjustable instantaneous-trip component. All branch panels will be door-in-door construction to allow easy inspection of internal wiring.

Load Bank

A permanent load bank will not be provided. However, a load bank connection box will be provided adjacent to the generator, which will be connected to the generator via the distribution panelboard in the emergency electrical room. This will allow a rental load bank to be connected to the generator for testing.

Tap box

As only one generator will be provided, a manual transfer switch will be provided exterior to the building with a Camlock connection box for a temporary roll-up generator. This will allow a temporary generator to be provided when the main generator undergoes service to ensure continuous standby power availability.

Raceways

All feeders and branch circuit homeruns within the building will be run in Electrical Metallic Tubing (EMT) except in locations subject to physical damage, where Rigid Steel Conduit (RSC) will be used. Armor-Clad Healthcare Facilities cable will be permitted for drops down walls within rooms only, and this will be permitted only for the normal and equipment power system. No flexible cable is allowed for the life safety circuits.

Underground feeder conduits will be PVC-40 encased in concrete ductbank. Conduits for normal service entrance and for generator entrance will be routed at least 10' away from each other. Underground branch circuit conduits (for site lighting and miscellaneous power connections) will be PVC-80 direct-buried.



Any conduits routed along the roof or outdoors above ground will be threaded Rigid Steel Conduit. These locations will be limited only to where absolutely necessary.

Power receptacles and switches

All electrical devices shall have stainless steel wall plates with circuit designation embossed onto plate. No outlets will be installed in patient bathrooms or bed rooms/seclusion areas. The only exception may be for a secure TV box in some of the rooms. All outlets shall be tamper resistant.

Lighting System Design

Fixtures

Administrative areas

General lighting will be provided with 2x2 and 2x4 flat panels. Lighting levels will be designed to IES standard RP-19.

CSU, CRC, and CITAC areas

Lighting shall be designed to minimize glare and be dimmable. Individualized lighting control for the patient beds area in the CSU shall be controlled by a centralized touch screen wall mounted controller at the staff desk or with a lighting controller in the hallway outside of each room or seclusion room.

Lighting patient areas shall be Ligature Resistant. Appendix D contains cutsheets of recommended fixtures for this application.

Exit signs shall be tamper and ligature resistant.

Site Lighting

Parking and Drive Aisles

Pole-mounted lighting will be provided throughout the parking area to provide illumination throughout the site. All fixtures will be provided with shielding to prevent any uplight. Target lighting levels will be approximately 2 footcandles in the parking areas and drive aisles, with a max-to-min ratio of no greater than 1.5.

Exterior Doors

Wall Packs will be provided at all exterior doors to provide egress lighting.

Courtyard/exterior secured area

Courtyard may be provided with a combination of wall packs and pole lights.

Controls

Dimming will be provided liberally throughout the facility. With the ease of dimming presented by LED, this adds minimal cost to the project. All dimmers will be sliders.

A central lighting control system will be provided for the core areas to meet energy code requirements. This system will interface with the Building automation system. A photocell will be mounted to the roof to provide control for any exterior lighting.



Low Voltage Systems

Low-voltage backboxes will be provided with 1" EMT stub-ups to accessible ceilings. All stub-ups will contain a pull string and be capped by a protective bushing. Where ceilings are inaccessible, conduit will be routed to an accessible ceiling, ensuring no more than 180 degrees of bend throughout the run. All device face plates shall be stainless steel. Provide tamper resistant screws for items exposed to patient access.

Nurse Call (Optional)

Nurse Call system will be by owner, with conduit and backboxes provided by contractor as indicated above. We are anticipating this in Patient toilets and each patient care station. Each station will have an associated dome light. All shall be tamper and impact resistant with an override or ability to de-energize the device to mitigate nuisance calls.

Duress Alarm

Duress alarm will be provided at the enclosed in the following locations:

1. Staff desk at CSU
2. Staff desk at CRC
3. Security Desk at CITAC
4. In Sally Port at CITAC

Security

Building security system will be by owner, with conduit and backboxes provided by contractor as indicated above. See Low Voltage Technology Narrative for Surveillance Systems.

White noise (Optional)

A white noise speech privacy system will be considered outside the patient rooms.

Demarcation

Cable will enter the demarcation room for Cable provider via (3) underground 4" conduits. Two 4" conduits will be routed overhead to the main telecom room.

Addressable Fire Alarm

An addressable fire alarm system will be provided as part of a contractor-delegated design. Notification appliances, pull stations, and smoke detectors will be provided where required by NFPA 72. The system will be multiple zones. The fire alarm system will interface with the paging system to allow speakers to be used for both purposes. The fire alarm system will auto-dial the fire department to ensure timely response to any alarms.

Smoke detectors, fire alarm horn/strobe devices shall be impact and ligature resistant. Where allowed only horn device will be provided in patient care station areas to minimize the risk of seizures. Pull stations will only be located in staff areas and only key operated by staff.

Lightning Protection

A lightning protection system will be provided with the building to protect both the building and mechanical/electrical equipment. This system will be a contractor-delegated design system.



APPENDIX A

Maximum Security

security products

SG-SD

- Face plate: $\frac{3}{16}$ " steel with $\frac{3}{16}$ " diameter holes on $\frac{9}{32}$ " staggered centers and 1" border
- Sleeve: $\frac{3}{16}$ " steel
- All welded construction



SG-SD

Complies with NIC Guidelines
for Suicide Prevention and
California Title 24



See website for Specifications

MODELS:

SG-SD / Steel
SG-SD-SS / Stainless Steel

FINISHES:

Standard Finish - #26 White
Optional Finish - #04 Mill

OVERVIEW

Suicide Deterrent

The SG-SD is a maximum security grille. The design of this grille allows a greater effective free area and superior airflow without compromising security and safety. The SG-SD complies with National Institute of Corrections guidelines for suicide prevention and California Title 24.

OPTIONS

- Angle Frame - $1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{3}{16}$ " steel angle iron shipped loose for field welding. Frame is mill finish.
- Anchor Bars - $\frac{3}{4}$ " diameter steel bars, 3" in height. Positioned 3" from back of face plate on top and bottom of sleeve
- Rear Operated Damper - AG-15 steel opposed blade damper. Slot operated from rear of the grille.
- Sleeve Barrier Grille - constructed of $\frac{3}{4}$ " diameter steel bars with maximum 6" opening

APPENDIX B



Whitehall Manufacturing®

Manufacturer of Healthcare and Rehabilitation Products since 1946

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Patients, Not Prisoners®

Healthcare and Ligature
Resistant Products

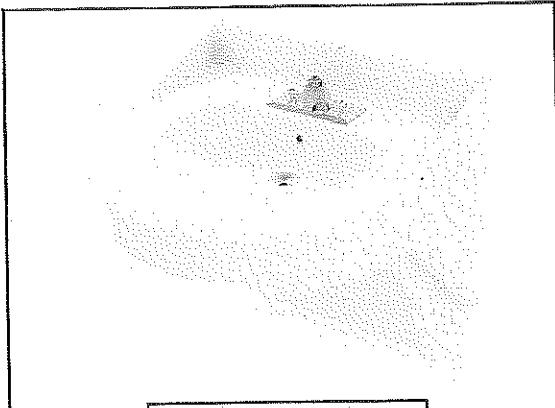
Division of
Acorn Engineering Company®



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ENTERTAINMENT

Whitehall Ligature Resistant ADA Compliant Bariatric Stainless Steel Basin Powder Coated White

Model WH3740BAR



WH3740BAR-WH3377

Fixture May Show Some Available Options

Ligature Resistant Bariatric Stainless Steel Basin

Ligature Resistant Bariatric Stainless Steel Basin is engineered to combine the look and feel of commercial grade designer basins and countertops with durability and economy in mind. Fixture is rated at 1,000 lbs when used with an appropriate system (Jay R. Smith 0848-M31). Each standard height Washbasin complies with ANSI, UFAS, and ADA requirements. Compliance is subject to the interpretation and requirements of the local code authority.

Countertop and Basin are constructed of 16 gage stainless steel with exposed surfaces powder coated white with a 14 gage stainless steel sub-frame. Basin includes ligature resistant side splashes, overflow, grid strainer, waste piping and 1-1/2" P-Trap.

Optional Ligature Resistant Faucet (WH3377 shown) is available. See Individual BestCare Specification Sheets for 4" Centerset Faucet.

Optional Mixing Valve delivers tempered water flow by compensating for pressure and temperature fluctuations and is ASSE 1070 compliant. Valve is to be field set to 105° Fahrenheit and includes strainers and integral checks. Operating range is 30 to 100 PSI.

Enclosure conceals P-trap and optional valve assembly and is fabricated from 18 gage, type 304 stainless steel, powder coated white.

GUIDE SPECIFICATION

Ligature Resistant Bariatric Stainless Steel Washbasin. Unit with 34" standard rim height to conform with ANSI, UFAS and ADA Accessibility Standards. Provide integral "D" Shaped basin with an integral, rear overflow. Basin, countertop, backsplash and sidesplash to be constructed of type 304 stainless steel. Washbasin shall conform to ANSI Z124.3 and ANSI Z124.6. Trap cover to be constructed of 18 gage, type 304 stainless steel and powder coated white.

Please visit www.whitehallmfg.com for most current specifications.



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Updated: 02/24/2020

WH3740BAR



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Healthcare and Ligature
Resistant Products

MODEL NUMBER AND OPTIONS SELECTION:

BASE MODEL NUMBER

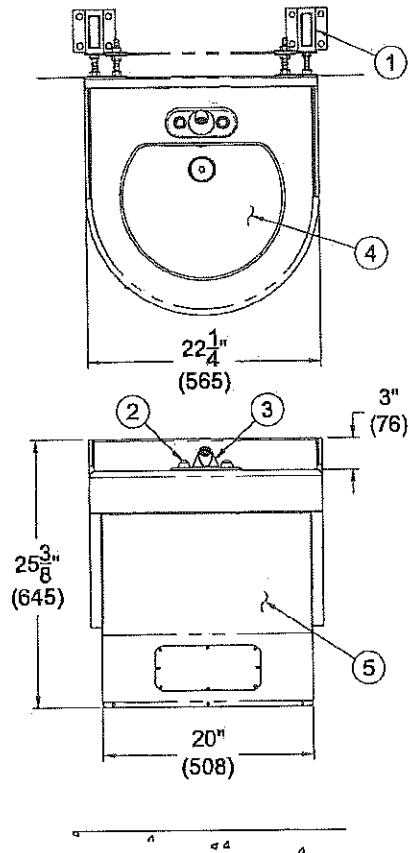
WH3740BAR Ligature Resistant Bariatric Stainless Steel Washbasin

VALVE SELECTION

See Individual BestCare Specification Sheets for 4" Centerset Faucet

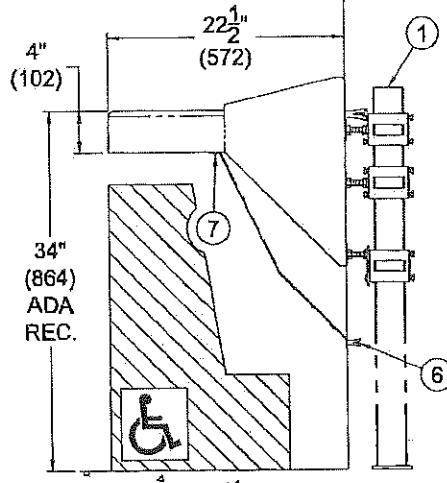
PRODUCT OPTIONS

-MC Mounting Carrier
 -MXTP Temperature-Pressure Balancing Mixing Valve (ASSE 1070 Compliant)



NOTES:

1. OPTIONAL -MC BARIATRIC MOUNTING CARRIER, SHOWN FOR REFERENCE ONLY
2. HEMISPERICAL PUSHBUTTON
3. CONICAL SPRAYHEAD
4. D-SHAPE BOWL
5. ANTI-LIGATURE TRAP COVER
6. WALL ANCHORING HARDWARE (BY OTHERS)
7. TAMPER RESISTANT SCREWS



MODEL # WH3740BAR-WH3377

DISCLAIMER:

This product is designed to decrease the probability that it may be utilized as an apparatus for ligature. It is not a replacement for professionals who are trained in the proper evaluation, management and supervision of persons at risk of suicide.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SELECTION SUMMARY & APPROVAL FOR MANUFACTURING

| Model Number & Options | WH3740BAR-MC-MXTP | Quantity | 7 |
|--------------------------------------|-----------------------------|----------|------------------------|
| Company | Riddleberger Brothers, Inc. | Date | 1/13/2021 |
| Contact | Greg Lamma | Title | Senior Project Manager |
| Approval for Manufacturing/Signature | <i>Greg Lamma</i> | | |

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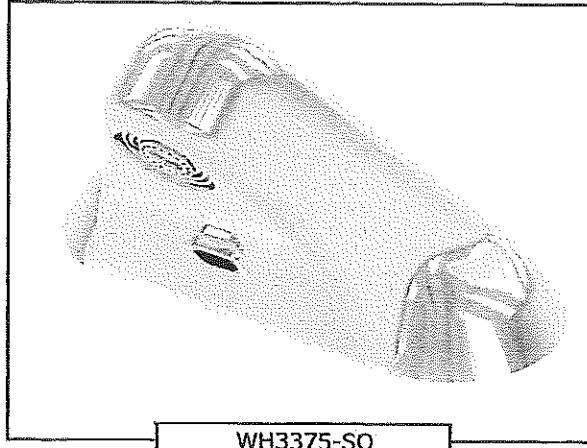
Updated: 02/24/2020

WH3740BAR



Whitehall Ligature Resistant Sensor Activated Faucet 4" Centerset

Model WH3375-SO



WH3375-SO

Fixture May Show Some Available Options

Ligature Resistant Sensor Activated Faucet 4" Centerset

The Ligature Resistant Sensor

Activated Faucet is recommended for patient bathrooms and facilities where at risk accommodations are a concern. The faucet is designed to retrofit onto existing 4" centerset lavatory decks with 3-hole openings providing Ø1" minimum to Ø1-1/2" maximum holes; or can be specified with Whitehall BestCare ligature resistant lavatories. The faucet includes hand free operation, made of chrome plated lead-free brass and intended to be vandal resistant.

Valve is an electronic valve with sensor activation. Valve includes 9VDC Sensor that will keep the solenoid open, allowing water to flow until the object is removed from sensor range. If an object is positioned in a manner that it is under constant detection, the sensor will turn off the solenoid after 20 seconds. A 120VAC/9VDC plug-in transformer or a 6 AA Battery Box is provided.

Spray nozzle is non-splashing, non-aerated, multi-stream with a 0.5 GPM flow control.

Optional WHST70-12 or WHST70-38 Mixing Valve option is ASSE 1070 compliant and delivers tempered water flow by compensating for pressure and temperature fluctuations. Valve is to be field set to 105° Fahrenheit and includes strainers and integral checks. Operating range is 30 to 100 PSI.

Fixture is ADA Compliant. Unit conforms with ADA requirements for accessibility when correctly installed. Compliance is subject to the interpretation and requirements of the local code authority.

GUIDE SPECIFICATION

Provide and install Ligature Resistant Faucet (specify model number and options). Faucet valve shall be electronic, sensor activation. Assembly shall include 0.5 GPM flow control, multi-stream laminar spray nozzle, 9VDC sensor and faucet connections.

Please visit www.whitehallmfg.com for most current specifications.



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MODEL NUMBER AND OPTIONS SELECTION:

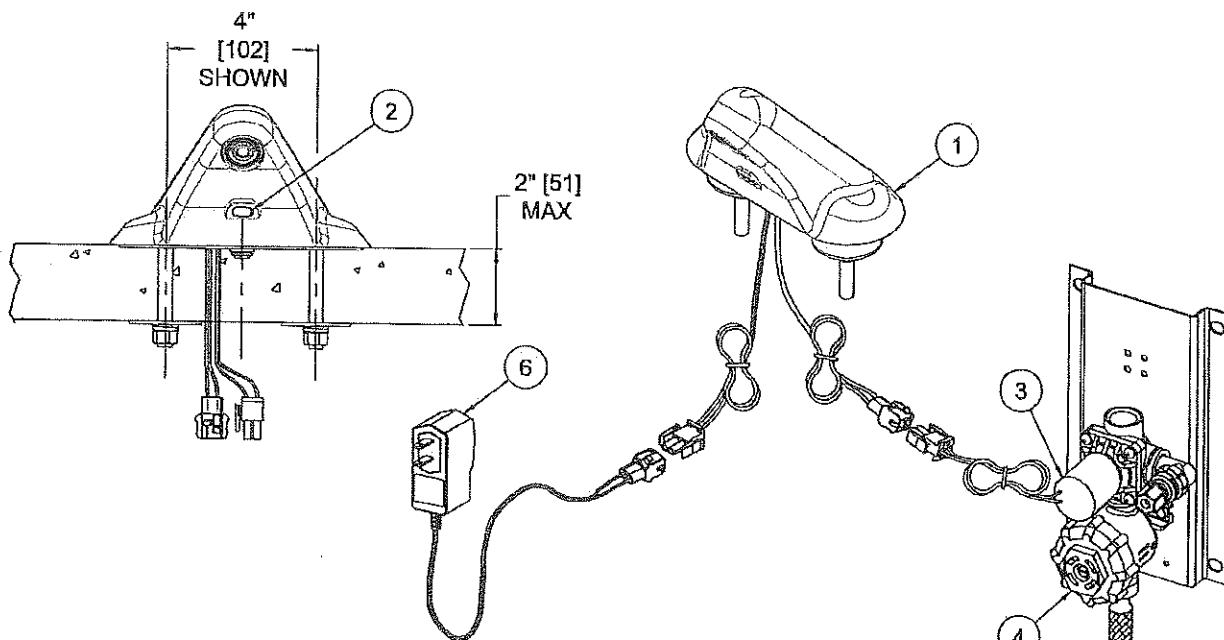
BASE MODEL NUMBER

WH3375-SO
 WH3375-SO-BAT

Ligature Resistant Sensor Activated Spout w/ Electronic Valve, Single Temp
Ligature Resistant Battery Powered, Sensor Activated Spout w/ Electronic Valve,
Single Temp

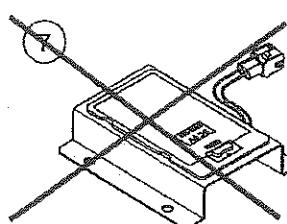
OPTIONS:

-WHST70-12 1/2" NPT ASSE 1070 Compliant Hot & Cold, Temperature / Pressure Balancing Mixing Valve
 -WHST70-38 3/8" COMP. ASSE 1070 Compliant Hot & Cold, Temperature / Pressure Balancing Mixing Valve



NOTES:

1. LIGATURE RESISTANT SPOUT
2. 9VDC INFRARED SENSOR
3. 9VDC SOLENOID VALVE ASSEMBLY
4. CHECKSTOP/STRAINER ASSEMBLY
5. 1/2" NPS INLET FLEX HOSE
6. 9VDC PLUG-IN TRANSFORMER
7. BATTERY PACK (OPTIONAL)



**OPTIONAL SO-BAT BATTERY PACK
OPERATION DETAIL**

All dimensions are nominal and subject to manufacturer's change without notice. Whitehall assumes no responsibility to use of void or superseded data. © Whitehall Manufacturing, Member of Morris Group International. Please visit www.whitehallmfg.com for most current specifications.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SELECTION SUMMARY & APPROVAL FOR MANUFACTURING

| | | | |
|--------------------------------------|-----------------------------|----------|------------------------|
| Model Number & Options | WH3375-SO | Quantity | 7 |
| Company | Riddleberger Brothers, Inc. | Date | 1/13/2021 |
| Contact | Greg Lamma | Title | Senior Project Manager |
| Approval for Manufacturing/Signature | <i>Greg Lamma</i> | | |



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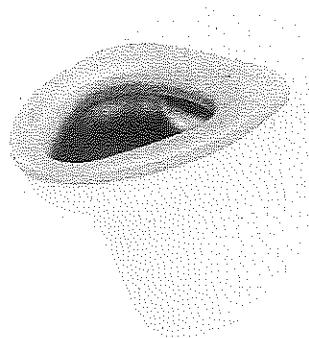


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Whitehall Ligature Resistant Siphon Jet Toilet

Model WH2142-ADA-W-EGE10
(Wall Supply)

WH2142ADA-W-EGE10



Ligature Resistant Siphon Jet Toilet - ADA 2010 Compliant

Ligature Resistant Siphon Jet Toilet is arranged to be installed against a finished wall from the front side with a fixture-to-wall mounting channel. Unit is fabricated from 16 gage, type 304 stainless steel and is seamless welded construction with exterior surfaces powder coated white (interior of toilet will have a satin finish and will not be powder coated). Toilet will be provided with WH-LRSC-GREY Ligature Resistant ABS Toilet Seat Cover.

Toilet is siphon jet type with an elongated bowl manufactured to comply with ASME A112.19.3, CSA B45.4 and 2010 ADA Standards for Accessible Design. Toilet requires a minimum of 25 PSI flow pressure and uses a minimum water consumption of 1.28 GPF. Trap has a minimum 3-1/2" seal, will pass a 2-1/8" ball and is fully enclosed. Toilet has a 1-1/2" NPT flushing inlet connection. Wall waste outlet connection is a 5-1/2" gasket flange. Floor waste outlet locations from rear of fixture are 10" or 12" with a 7-1/2 gasket flange.

Optional Hydraulic Flush Valve is concealed type with cast bronze body. Flush valve supply is available in 1.28 GPF and 1.6 GPF. All exposed parts are polished chrome plated.

GUIDE SPECIFICATION

Provide and install Whitehall Best-Care™ Ligature Resistant ADA 2010 Compliant Toilet (specify model number and options). Fixture shall be fabricated from 16 gage, type 304 stainless steel. Construction shall be seamless welded and exterior surfaces are powder coated white. Housing to include side access panels. Toilet shall be concealed siphon jet type with an elongated bowl and self-draining flushing rim. Toilet shall be ASME A112.19.3, CSA B45.4, and ADA 2010 compliant. Toilet requires a minimum of 25 PSI flow pressure and uses a minimum water consumption of 1.28 GPF. Toilet trap shall have a minimum 3-1/2" seal and shall pass a 2-1/8" diameter ball and is fully enclosed. Provided with WH-LRSC-GREY Ligature Resistant ABS Toilet Seat Cover.

• Patented US 10,052,000 B2

Please visit www.whitehallmfg.com
for most current specifications.



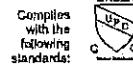
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Revised: 04/04/19

WH2142-ADA-W



MODEL NUMBER AND OPTIONS SELECTION:

BASE MODEL NUMBER

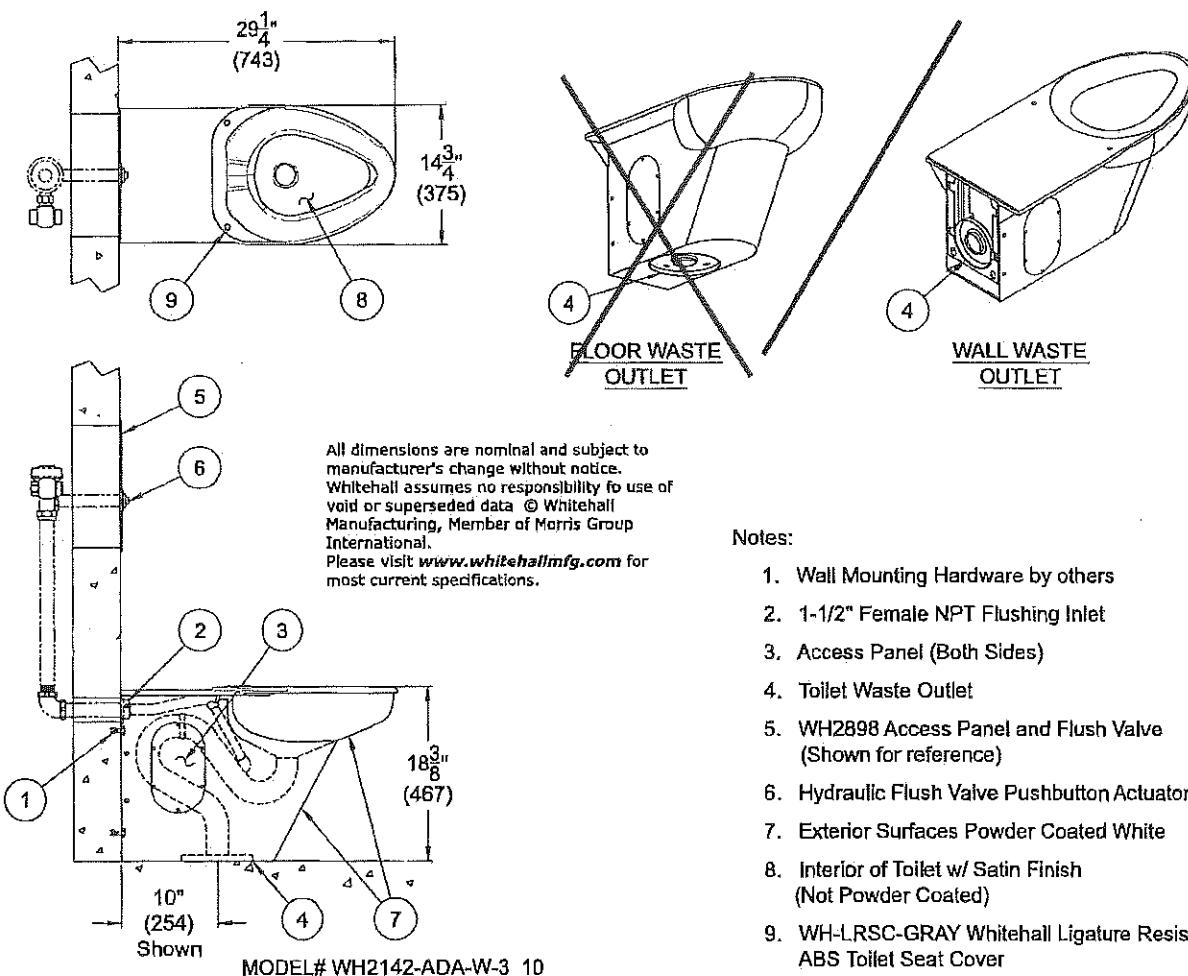
WH2142-ADA-W-2-EGE10 Wall Outlet, Siphon Jet Toilet
 WH2142-ADA-W-3-EGE10_10 Floor Outlet, Siphon Jet Toilet (10" rough-in from wall to the center of waste outlet)
 WH2142-ADA-W-3-EGE10_12 Floor Outlet, Siphon Jet Toilet (12" rough-in from wall to the center of waste outlet)

Optional Flush Valve:

-HET 1.28 Hydraulic GPF (Includes Access Panel)
 -ULF 1.6 Hydraulic GPF

Accessories:

Note: Gray Ligature Resistant Seat Cover is Standard
 WH-LRSC-WHITE Ligature Resistant Seat Cover, White (Shipped Loose)
 WH-LRSC-BLACK Ligature Resistant Seat Cover, Black (Shipped Loose)



Notes:

1. Wall Mounting Hardware by others
2. 1-1/2" Female NPT Flushing Inlet
3. Access Panel (Both Sides)
4. Toilet Waste Outlet
5. WH2898 Access Panel and Flush Valve (Shown for reference)
6. Hydraulic Flush Valve Pushbutton Actuator
7. Exterior Surfaces Powder Coated White
8. Interior of Toilet w/ Satin Finish (Not Powder Coated)
9. WH-LRSC-GRAY Whitehall Ligature Resistant ABS Toilet Seat Cover

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

DISCLAIMER:

This product is designed to decrease the probability that it may be utilized as an apparatus for ligature. It is not a replacement for professionals who are trained in the proper evaluation, management and supervision of persons at risk of suicide.

SELECTION SUMMARY & APPROVAL FOR MANUFACTURING

| | | | |
|--------------------------------------|--------------------------------------|----------|------------------------|
| Model Number & Options | WH2142-ADA-W-EGE10-HET-WH-LRSC-WHITE | Quantity | 1 |
| Company | Riddleberger Brothers, Inc. | Date | 1/13/2021 |
| Contact | Greg Lamna | Title | Senior Project Manager |
| Approval for Manufacturing/Signature | | | |

APPENDIX C



Institutional | New Models Offer Installation Advantages

Viking's new line of institutional sprinklers provides installation advantages for fire protection systems in correctional facilities, mental health occupancies, or anywhere that tampering with fire sprinklers may be a concern. Available in both pendent and horizontal sidewall models, the quick response sprinklers can be ordered in either standard or extended coverage options.

- Innovative wrench design allows protective cap to remain in-place during sprinkler installation, providing a more efficient installation process and better protection from potential sprinkler damage. Wrench also provides for easy orientation and alignment of sprinkler deflector.
- The only institutional sprinkler available in both ordinary 165°F (74°C) and intermediate 205°F (96°C) temperature ratings.
- The only institutional sprinkler where orientation and SIN are visible on the face of the sprinkler after installation.
- When installed, Viking's institutional sprinklers extend only ¼ inch from the face of the finished wall or ceiling for a flush, unobtrusive appearance.
- Available in chrome, painted white, or painted gray with 3 or 4 inch escutcheons in colors to match the sprinkler. Custom colors are also available upon request.

Model Number: VK426, VK650, VK427, VK651

Base Part Number: 19663, 22885, 19876, 22884

Listings/Approvals: cULus

K-factor: 5.6 (81)

Connection: Threaded ½" NPT
15 mm BSPT

Temperature: 165°F (74°C)
205°F (96°C)

Operating Element: Fusible Link

Finish: Chrome, Painted White, Painted Gray

Item Price Group: V173

Occupancy/Hazard: Light (VK426 and VK427 also Listed for Ordinary Hazard Occupancies)

Technical Datasheet: F_032319

MKT-0051

General reference only. Prior to the design, layout, and/or installation of any sprinkler system, please refer to Viking's technical documentation and consult with the AHJ.

Contact your local Viking SupplyNet team to place an order today!

The Viking Corporation

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MMAC SERIES - LED**PRODUCT FEATURES:**

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- » Center diffuser provides direct/indirect ambient lighting
- » Heavy-duty one-piece TIG and spot welded housing
- » Doorframe with Polycarbonate lens secured with Torx® fasteners for security

**SPECIFICATIONS**

HOUSING: Die-formed prime grade material as specified – see Ordering Information. TIG and spot welded construction.

DOOR: One-piece die-formed prime grade material as specified – see Ordering Information. Doorframe supported to housing with two aircraft cables. Corners continuously seam welded and smooth with no post grinding (TIG).

FINISH: TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Optional antimicrobial finish.

OPTICS: Extruded high-efficiency frosted DR acrylic inner diffuser. Clear impact-resistant polycarbonate outer lens as specified—see Ordering Information.

GASKET: Closed cell silicone gasket seals door to housing.

FASTENERS: Torx® head with center pin hardened security screws. Fully recessed.

ELECTRICAL: Available 3000K, 3500K, 4000K and 5000K color temperatures, 82 CRI. 120-277VAC, or 347VAC 50/60Hz electrical input with serviceable high power factor electronic, constant-current driver (<20% THD, >0.95 PF). Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non dim-to-dark with 347V); 330µA maximum source current. Optional LVC and LVCD provides a low-voltage patient interface, controlling the lamp source and optional night light with (LVCD) and without (LVC) dimming control.

SENSOR & CONTROLS: Optional sensor available with compatible third party controls. To see the full list of compatible controls, click [here](#).

INSTALLATION: SURFACE MOUNT: Four .312" diameter holes. GRID MOUNT: Designed for 1" and 1.5" grid. (Housing includes hanging brackets to secure housing with wire to super structure).

FLANGE MOUNT: Yoke mounting hardware & brackets included. Install Frame and Plaster Frames both positively locates yoke brackets within ceiling opening assures alignment of fixture. Install frame has no need for drywall backing; backing is supplied on the frame brackets.

WARRANTY: Limited five (5) year warranty.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Wet Locations and non-IC recessed installations. ETL certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone.

**ORDERING INFORMATION (Ex: MMAC24-F-0/0-9-FA-90L40K-DCC-DV-FS)**

| Model | Mounting | Door/Housing | Outer Lens | Diffuser Type | Lamp Type | Driver Type | Voltage | Options | Accessory |
|------------------------------|---|--------------|------------|---------------|-----------|-------------|---------|---------|-----------|
| Model | | | | | | | | | |
| MMAC14 | 1'x4' | | | | | | | | |
| MMAC22 | 2'x2' | | | | | | | | |
| MMAC24 | 2'x4' | | | | | | | | |
| Mounting Options | | | | | | | | | |
| F | Flange | | | | | | | | |
| S | Surface | | | | | | | | |
| G | Grid (1" and 1.5") | | | | | | | | |
| Door/Housing Material | | | | | | | | | |
| 0 | 14-Ga CRS (Painted) | | | | | | | | |
| 1 | 16-Ga CRS (Painted) | | | | | | | | |
| 2 | 18-Ga CRS (Painted) (n/a as Door Material) | | | | | | | | |
| A | 18-Ga SS (Brushed) (n/a as Door Material) | | | | | | | | |
| B | 18-Ga SS (Painted) (n/a as Door Material) | | | | | | | | |
| 3 | 14-Ga SS (Painted) | | | | | | | | |
| 4 | 16-Ga SS (Painted) | | | | | | | | |
| 6 | 14-Ga SS (Brushed) | | | | | | | | |
| 7 | 16-Ga SS (Brushed) | | | | | | | | |
| Outer Lens Type | | | | | | | | | |
| 7 | .187" Clear Polycarbonate | | | | | | | | |
| 9 | .250" Clear Polycarbonate | | | | | | | | |
| B | .375" Clear Polycarbonate | | | | | | | | |
| Diffuser Type | | | | | | | | | |
| FA | Frosted Acrylic | | | | | | | | |
| CAP | Clear Acrylic with Perforated Insert | | | | | | | | |
| Lamp Type | | | | | | | | | |
| 1x4 | | | | | | | | | |
| 45L30K | 45 Watt 3000K LED | | | | | | | | |
| 45L35K | 45 Watt 3500K LED | | | | | | | | |
| 45L40K | 45 Watt 4000K LED | | | | | | | | |
| 45L50K | 45 Watt 5000K LED | | | | | | | | |
| 2x2 | | | | | | | | | |
| 45L30K | 45 Watt 3000K LED | | | | | | | | |
| 45L35K | 45 Watt 3500K LED | | | | | | | | |
| 45L40K | 45 Watt 4000K LED | | | | | | | | |
| 45L50K | 45 Watt 5000K LED | | | | | | | | |
| 2x4 | | | | | | | | | |
| 45L30K | 45 Watt 3000K LED | | | | | | | | |
| 45L35K | 45 Watt 3500K LED | | | | | | | | |
| 45L40K | 45 Watt 4000K LED | | | | | | | | |
| 45L50K | 45 Watt 5000K LED | | | | | | | | |
| 67L30K | 67 Watt 3000K LED | | | | | | | | |
| 67L35K | 67 Watt 3500K LED | | | | | | | | |
| 67L40K | 67 Watt 4000K LED | | | | | | | | |
| 67L50K | 67 Watt 5000K LED | | | | | | | | |
| 90L30K | 90 Watt 3000K LED | | | | | | | | |
| 90L35K | 90 Watt 3500K LED | | | | | | | | |
| 90L40K | 90 Watt 4000K LED | | | | | | | | |
| 90L50K | 90 Watt 5000K LED | | | | | | | | |
| Driver Type | | | | | | | | | |
| DCC | 0-10V Dimming Constant Current | | | | | | | | |
| Input Voltage | | | | | | | | | |
| DV | 120-277VAC, 50/60Hz | | | | | | | | |
| 347 | 347VAC, 60Hz | | | | | | | | |
| Options | | | | | | | | | |
| AMF | Antimicrobial Finish on exposed surfaces | | | | | | | | |
| LEL* | 10W LED Emergency Battery Pack (n/a in combination with LVC or LVCD on 2x2 fixture) | | | | | | | | |
| NLW^ | 2700K White LED Night Light | | | | | | | | |
| NLA^ | Amber LED Night Light | | | | | | | | |
| FS | Fuse & Holder | | | | | | | | |
| LVC* | Low Voltage Controller (Click here for specifications) | | | | | | | | |
| LVCD* | Low Voltage Controller with Dimming (Click here for specifications) | | | | | | | | |
| TC | T-Bar Clips (Grid Mount only) | | | | | | | | |
| Accessory | | | | | | | | | |
| IF | Install Frame (Flange only; add .375 to each Ceiling Cutout dimension) | | | | | | | | |

ACCESSORIES ORDERED SEPARATELY

| | |
|-------------|---|
| MPWS | Low Voltage Wall Switch (Click here for Specifications) |
|-------------|---|



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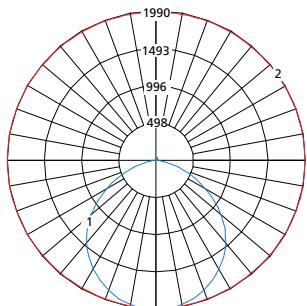
MMAC SERIES - LED

PERFORMANCE

| Model | Optic | | Lamp Power | Initial Delivered Lumens, By Lamp Color | | | | Efficacy (lm/W) | Input Power (W) | Estd. L70 LED Life (hrs) |
|--------|---------------|------------|------------|---|--------|--------|--------|-----------------|-----------------|--------------------------|
| | Diffuser Type | Outer Lens | | 30K | 35K | 40K | 50K | | | |
| MMAC14 | FA | 7 | 45L | 3,921 | 4,042 | 4,180 | 4,466 | 80 - 91 | 49 | 80,000 |
| | | 9 | 45L | 3,928 | 4,049 | 4,187 | 4,474 | 80 - 91 | 49 | 80,000 |
| | | B | 45L | 3,749 | 3,865 | 3,997 | 4,270 | 77 - 87 | 49 | 80,000 |
| MMAC22 | FA | 7 | 45L | 4,007 | 4,131 | 4,272 | 4,564 | 82 - 93 | 49 | 80,000 |
| | | 9 | 45L | 4,014 | 4,138 | 4,280 | 4,572 | 82 - 93 | 49 | 80,000 |
| | | B | 45L | 3,832 | 3,950 | 4,085 | 4,364 | 78 - 89 | 49 | 80,000 |
| MMAC24 | FA | 7 | 45L | 5,027 | 5,182 | 5,359 | 5,726 | 103 - 117 | 49 | 80,000 |
| | | | 67L | 7,648 | 7,884 | 8,153 | 8,711 | 106 - 121 | 72 | 80,000 |
| | | | 90L | 9,827 | 10,131 | 10,477 | 11,193 | 102 - 116 | 97 | 80,000 |
| | | 9 | 45L | 5,036 | 5,192 | 5,369 | 5,736 | 103 - 117 | 49 | 80,000 |
| | | | 67L | 7,662 | 7,899 | 8,168 | 8,727 | 106 - 121 | 72 | 80,000 |
| | | | 90L | 9,845 | 10,150 | 10,496 | 11,214 | 102 - 116 | 97 | 80,000 |
| | | B | 45L | 4,807 | 4,956 | 5,125 | 5,476 | 98 - 112 | 49 | 80,000 |
| | | | 67L | 7,314 | 7,540 | 7,797 | 8,330 | 102 - 116 | 72 | 80,000 |
| | | | 90L | 9,398 | 9,688 | 10,019 | 10,704 | 97 - 111 | 97 | 80,000 |

Displayed information is for type 'FA' diffuser. Apply 0.52 derating factor to provided output values for 'CAP' diffuser option. Photometry tested to theIESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For photometric data, please go to www.kenall.com

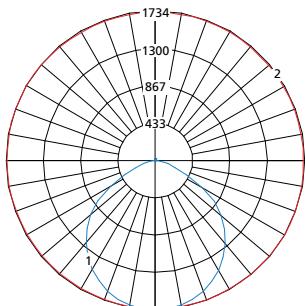
Model: MMAC14-x-y-z-9-FA-45L40K-DCC-120



Maximum Candela = 1990 Located At Horizontal Angle = 75, Vertical Angle = 2.5

— 1 - Vertical Plane Through Horizontal Angles (75-255) (Through Max. Cd.)
— 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

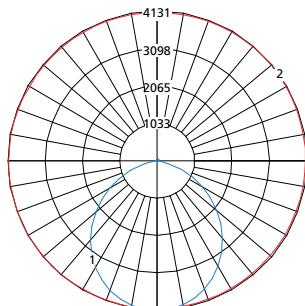
Model: MMAC22-x-y-z-9-FA-45L40K-DCC-120



Maximum Candela = 1734 Located At Horizontal Angle = 90, Vertical Angle = 2.5

— 1 - Vertical Plane Through Horizontal Angles (90-270) (Through Max. Cd.)
— 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: MMAC24-x-y-z-9-FA-90L40K-DCC-120



Maximum Candela = 4131 Located At Horizontal Angle = 75, Vertical Angle = 2.5

— 1 - Vertical Plane Through Horizontal Angles (75-255) (Through Max. Cd.)
— 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)



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Behavioral Healthcare Luminaires

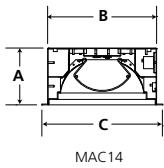
MMAC SERIES - LED

PERFORMANCE

GRID DIMENSIONAL DATA (IN INCHES)

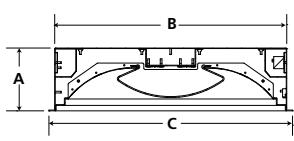
| | A | B | C | D | E |
|-----|------|-------|-------|-------|-------|
| 1x4 | 5.56 | 10.60 | 11.75 | 46.60 | 47.75 |
| 2x2 | 6.10 | 22.60 | 23.75 | 22.60 | 23.75 |
| 2x4 | 6.10 | 22.60 | 23.75 | 46.60 | 47.75 |

CROSS SECTION



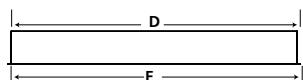
MAC14

GRID MOUNT



MAC22 & MAC24

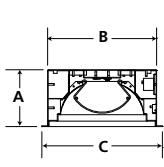
SIDE VIEW



FLANGE DIMENSIONAL DATA (IN INCHES)

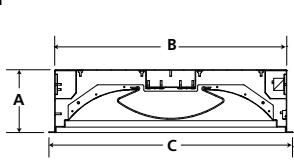
| | A | B | C | D | E | F | G |
|---|------|-------|-------|-------|-------|-------|-------|
| 1x4 | 5.56 | 10.60 | 11.75 | 46.60 | 47.75 | 30.00 | 5.25 |
| Recommended Ceiling Cutout: 10.88" x 46.88" | | | | | | | |
| 2x2 | 6.10 | 22.60 | 23.75 | 22.60 | 23.75 | 12.00 | 12.00 |
| Recommended Ceiling Cutout: 22.88" x 22.88" | | | | | | | |
| 2x4 | 6.10 | 22.60 | 23.75 | 46.60 | 47.75 | 30.00 | 12.00 |
| Recommended Ceiling Cutout: 22.88" x 46.88" | | | | | | | |

FLANGE MOUNT



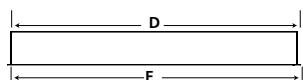
MAC14

CROSS SECTION

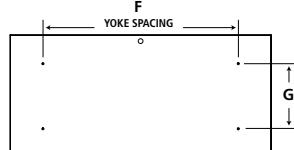


MAC22 & MAC24

SIDE VIEW



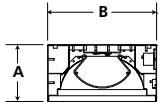
TOP VIEW



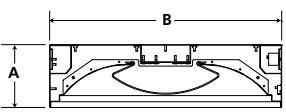
SURFACE DIMENSIONAL DATA (IN INCHES)

| | A | B | C | D | E |
|-----|------|-------|-------|-------|-------|
| 1x4 | 5.56 | 10.60 | 30.00 | 5.25 | 46.60 |
| 2x2 | 6.13 | 22.60 | 12.00 | 12.00 | 22.60 |
| 2x4 | 6.13 | 22.60 | 30.00 | 12.00 | 46.60 |

CROSS SECTION

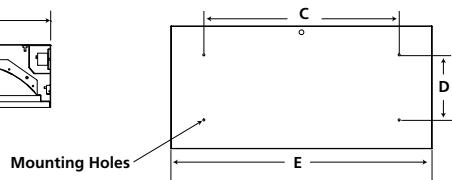


MAC14



MAC22 & MAC24

TOP VIEW



Mounting Holes



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MEDMASTER DOWNLIGHT

Luminaires for Behavioral Health Applications

BHDL SERIES

PRODUCT FEATURES:

- » 6" sealed, recessed downlight with flush lens trim
- » Peace of Mind Guarantee® against breakage
- » Delivered lumens: 628 - 5,305 lm
- » 1% Dimming via 0-10V or DALI control



SPECIFICATIONS

HEAT SINK: Die-cast aluminum with external radial fins for natural convection.

ROUGH-IN FRAME: 18-gauge die-formed, corrosion-resistant steel. Vertically adjustable collar accommodates ceiling thicknesses up to 2", adjustable post-installation. Universal mounting brackets accept 3/4" and 1-1/2" lathers channel, 1/2" EMT conduit and hanger bars. Quick-access junction box accessible post-installation from above and below ceiling. Includes (4) 1/2" and (2) 3/4" knock-outs to allow straight conduit runs. Listed for (8) 12AWG, 90°C conductors and feed-thru branch wiring. Provided with FMC with electrical quick-connect to Trim Section.

TRIM/HOUSING SECTION: IP-rated housing section incorporates the heat sink, LED module, optics and lower trim. Flush lens trim secured with four (4) Torx® tamper-resistant, captive fasteners. Anti-microbial finish standard on all exposed painted surfaces. See trim ordering information for available options.

OPTICAL: High-Efficiency mixing chamber design with regressed diffused tempered-glass lens producing uniform light output. Available with various reflector distribution patterns and finishes. Flush lens trim options include a clear lens. See distribution and reflector finish ordering information for available options.

ELECTRICAL: LED array available in multiple CCT and CRI combinations with a maximum 3-step MacAdam variation allowance. See Trim Ordering Information for available options. 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant current driver (<20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range; 200µA max. source current. Optional eldoLED ECODrive DALI driver with 1-100% range.

PHOTOMETRICS: Photometry tested to theIESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For photometric information, go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty. [Peace of Mind Guarantee against breakage](#).

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratory for non-IC and Wet Location installations. IP65 rating per IEC60598. Optional CCEA compliant.



ORDERING INFORMATION (EX: BHDL6-FF-2FW-22L-40K8-W-CSS-G-RIG6-DV-DIM1)

TRIM

| Model | Trim Style | Trim Finish | Lamp Power | Lamp Color | Distribution | Reflector Finish | Flush Lens Type |
|--------------|------------|-------------|------------|------------|--------------|------------------|-----------------|
| BHDL6 | FF | | | | | | |

Trim Style

FF Flush Lens (With Fasteners - IP65)

Trim Finish

2FW Cold-Rolled Steel in Flat White

5BR Type 304 Stainless Steel with 4B Brushed Finish

5FW Type 304 Stainless Steel in Flat White

Lamp Power

12L 12 Watt LED

22L 22 Watt LED

33L 33 Watt LED

55LT[▲] 55 Watt LED

Lamp Color

30K8 3000K / 80 CRI min.

30K9 3000K / 90 CRI min.

35K8 3500K / 80 CRI min.

35K9 3500K / 90 CRI min.

40K8 4000K / 80 CRI min.

40K9 4000K / 90 CRI min.

50K8 5000K / 80 CRI min.

Distribution

M Medium

W Wide

WW* Wall Wash

Reflector Finish

FW Flat White

CS Clear Specular

CSS Clear Semi-Specular

Flush Lens Type

G 1/8" Clear Polycarbonate

9 1/4" Clear Polycarbonate

PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

ROUGH-IN

| Rough-In | Input Voltage | Driver Type | Options |
|-------------|---------------|-------------|---------|
| RIG6 | | | |

Rough-In

RIG6 6" Rough-In

Input Voltage

DV 120-277V, 50/60Hz

120 120VAC, 60Hz

277 277VAC, 60Hz

347† 347VAC, 60Hz

Driver Type

DIM1 0-10V Dimming to 1%

DALI DALI Dimming to 1%

Options

LEL Emergency Battery Backup with Remote Test Switch

FS Fuse & Holder

CCEA CCEA Approved (specified voltage required; n/a 347V)

9500 Torx® Screwdriver

* Available with CSS reflector finish only

† N/A with DALI Driver Type. N/A with LEL option

▲ Must be installed with a minimum 24" on-center spacing, 12" from wall, and have 3" clearance above the Trim/Housing



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MEDMASTER DOWNLIGHT

Luminaires for Behavioral Health Applications

BHDL SERIES

PERFORMANCE

| Optic | | | Lamp Power | Initial Delivered Lumens, By Lamp Color | | | | | | | Efficacy (lm/W) | Input Power (W) | Estd. L70 LED Life (hrs) |
|--------------|------------------|-----------|------------|---|-------|-------|-------|-------|-------|-------|-----------------|-----------------|--------------------------|
| Distribution | Reflector Finish | Lens Type | | 30K8 | 30K9 | 35K8 | 35K9 | 40K8 | 40K9 | 50K8 | | | |
| M | CS | G | 12L | 1,048 | 876 | 1,048 | 887 | 1,090 | 887 | 1,114 | 58 - 74 | 15 | 80,000 |
| | | | 22L | 1,716 | 1,435 | 1,716 | 1,452 | 1,785 | 1,452 | 1,823 | 60 - 76 | 24 | 85,000 |
| | | | 33L | 2,487 | 2,079 | 2,487 | 2,104 | 2,586 | 2,104 | 2,642 | 59 - 75 | 35 | 70,000 |
| | | | 55L | 4,436 | 3,709 | 4,436 | 3,754 | 4,613 | 3,754 | 4,713 | 60 - 76 | 62 | 75,000 |
| | | 9 | 12L | 923 | 772 | 923 | 781 | 960 | 781 | 980 | 51 - 65 | 15 | 80,000 |
| | | | 22L | 1,511 | 1,263 | 1,511 | 1,279 | 1,571 | 1,279 | 1,605 | 53 - 67 | 24 | 85,000 |
| | | | 33L | 2,189 | 1,830 | 2,189 | 1,853 | 2,277 | 1,853 | 2,326 | 52 - 66 | 35 | 70,000 |
| | | | 55L | 3,905 | 3,265 | 3,905 | 3,305 | 4,061 | 3,305 | 4,149 | 53 - 67 | 62 | 75,000 |
| | CSS | G | 12L | 1,048 | 876 | 1,048 | 887 | 1,090 | 887 | 1,114 | 58 - 74 | 15 | 80,000 |
| | | | 22L | 1,716 | 1,435 | 1,716 | 1,452 | 1,785 | 1,452 | 1,823 | 60 - 76 | 24 | 85,000 |
| | | | 33L | 2,487 | 2,079 | 2,487 | 2,104 | 2,586 | 2,104 | 2,642 | 59 - 75 | 35 | 70,000 |
| | | | 55L | 4,436 | 3,709 | 4,436 | 3,754 | 4,613 | 3,754 | 4,713 | 60 - 76 | 62 | 75,000 |
| | | 9 | 12L | 923 | 772 | 923 | 781 | 960 | 781 | 980 | 51 - 65 | 15 | 80,000 |
| | | | 22L | 1,511 | 1,263 | 1,511 | 1,279 | 1,571 | 1,279 | 1,605 | 53 - 67 | 24 | 85,000 |
| | | | 33L | 2,189 | 1,830 | 2,189 | 1,853 | 2,277 | 1,853 | 2,326 | 52 - 66 | 35 | 70,000 |
| | | | 55L | 3,905 | 3,265 | 3,905 | 3,305 | 4,061 | 3,305 | 4,149 | 53 - 67 | 62 | 75,000 |
| W | CS | G | 12L | 972 | 813 | 972 | 822 | 1,011 | 822 | 1,033 | 54 - 69 | 15 | 80,000 |
| | | | 22L | 1,591 | 1,331 | 1,591 | 1,347 | 1,655 | 1,347 | 1,691 | 55 - 70 | 24 | 85,000 |
| | | | 33L | 2,305 | 1,928 | 2,305 | 1,951 | 2,398 | 1,951 | 2,450 | 55 - 70 | 35 | 70,000 |
| | | | 55L | 4,113 | 3,439 | 4,113 | 3,481 | 4,277 | 3,481 | 4,370 | 55 - 70 | 62 | 75,000 |
| | | 9 | 12L | 856 | 715 | 856 | 724 | 890 | 724 | 909 | 48 - 61 | 15 | 80,000 |
| | | | 22L | 1,401 | 1,171 | 1,401 | 1,186 | 1,457 | 1,186 | 1,488 | 49 - 62 | 24 | 85,000 |
| | | | 33L | 2,030 | 1,697 | 2,030 | 1,718 | 2,111 | 1,718 | 2,156 | 48 - 62 | 35 | 70,000 |
| | | | 55L | 3,621 | 3,028 | 3,621 | 3,064 | 3,766 | 3,064 | 3,847 | 49 - 62 | 62 | 75,000 |
| | CSS | G | 12L | 1,180 | 986 | 1,180 | 998 | 1,227 | 998 | 1,253 | 67 - 86 | 15 | 80,000 |
| | | | 22L | 1,932 | 1,615 | 1,932 | 1,635 | 2,009 | 1,635 | 2,052 | 67 - 86 | 24 | 85,000 |
| | | | 33L | 2,799 | 2,340 | 2,799 | 2,369 | 2,911 | 2,369 | 2,974 | 67 - 85 | 35 | 70,000 |
| | | | 55L | 4,993 | 4,175 | 4,993 | 4,225 | 5,193 | 4,225 | 5,305 | 67 - 86 | 62 | 75,000 |
| | | 9 | 12L | 1,039 | 868 | 1,039 | 879 | 1,080 | 879 | 1,104 | 59 - 75 | 15 | 80,000 |
| | | | 22L | 1,701 | 1,422 | 1,701 | 1,439 | 1,769 | 1,439 | 1,807 | 59 - 75 | 24 | 85,000 |
| | | | 33L | 2,464 | 2,060 | 2,464 | 2,085 | 2,562 | 2,085 | 2,618 | 59 - 75 | 35 | 70,000 |
| | | | 55L | 4,396 | 3,675 | 4,396 | 3,720 | 4,571 | 3,720 | 4,670 | 59 - 75 | 62 | 75,000 |
| | FW | G | 12L | 1,001 | 837 | 1,001 | 847 | 1,041 | 847 | 1,064 | 57 - 73 | 15 | 80,000 |
| | | | 22L | 1,639 | 1,371 | 1,639 | 1,387 | 1,705 | 1,387 | 1,742 | 57 - 73 | 24 | 85,000 |
| | | | 33L | 2,375 | 1,986 | 2,375 | 2,010 | 2,470 | 2,010 | 2,524 | 57 - 72 | 35 | 70,000 |
| | | | 55L | 4,238 | 3,543 | 4,238 | 3,586 | 4,407 | 3,586 | 4,502 | 57 - 73 | 62 | 75,000 |
| | | 9 | 12L | 881 | 737 | 881 | 746 | 917 | 746 | 937 | 50 - 64 | 15 | 80,000 |
| | | | 22L | 1,443 | 1,207 | 1,443 | 1,221 | 1,501 | 1,221 | 1,534 | 50 - 64 | 24 | 85,000 |
| | | | 33L | 2,091 | 1,748 | 2,091 | 1,770 | 2,175 | 1,770 | 2,222 | 50 - 63 | 35 | 70,000 |
| | | | 55L | 3,731 | 3,119 | 3,731 | 3,157 | 3,880 | 3,157 | 3,964 | 50 - 64 | 62 | 75,000 |
| | FW | G | 12L | 1,109 | 928 | 1,109 | 939 | 1,154 | 939 | 1,179 | 63 - 81 | 15 | 80,000 |
| | | | 22L | 1,817 | 1,519 | 1,817 | 1,537 | 1,889 | 1,537 | 1,930 | 63 - 80 | 24 | 85,000 |
| | | | 33L | 2,632 | 2,201 | 2,632 | 2,227 | 2,737 | 2,227 | 2,796 | 63 - 80 | 35 | 70,000 |
| | | | 55L | 4,695 | 3,926 | 4,695 | 3,974 | 4,883 | 3,974 | 4,989 | 63 - 80 | 62 | 75,000 |
| | | 9 | 12L | 977 | 817 | 977 | 827 | 1,016 | 827 | 1,038 | 56 - 71 | 15 | 80,000 |
| | | | 22L | 1,599 | 1,337 | 1,599 | 1,353 | 1,663 | 1,353 | 1,699 | 56 - 71 | 24 | 85,000 |
| | | | 33L | 2,317 | 1,937 | 2,317 | 1,961 | 2,410 | 1,961 | 2,462 | 55 - 70 | 35 | 70,000 |
| | | | 55L | 4,134 | 3,456 | 4,134 | 3,498 | 4,299 | 3,498 | 4,392 | 56 - 71 | 62 | 75,000 |

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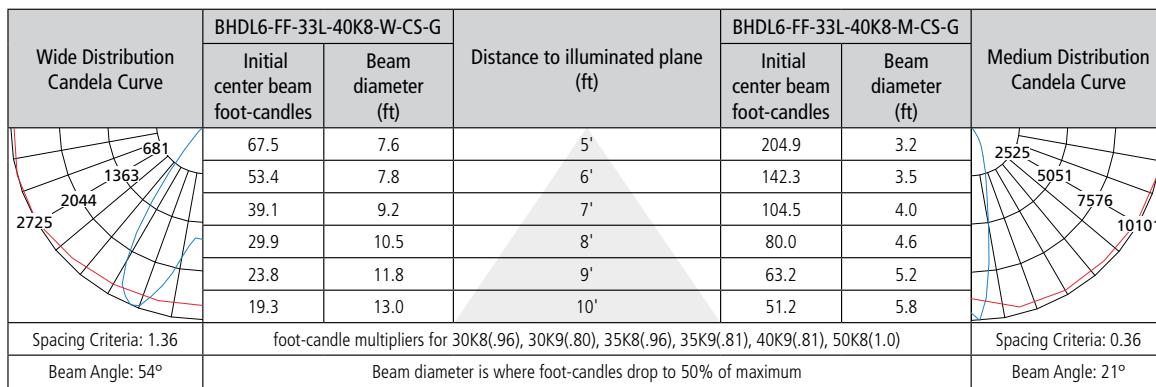
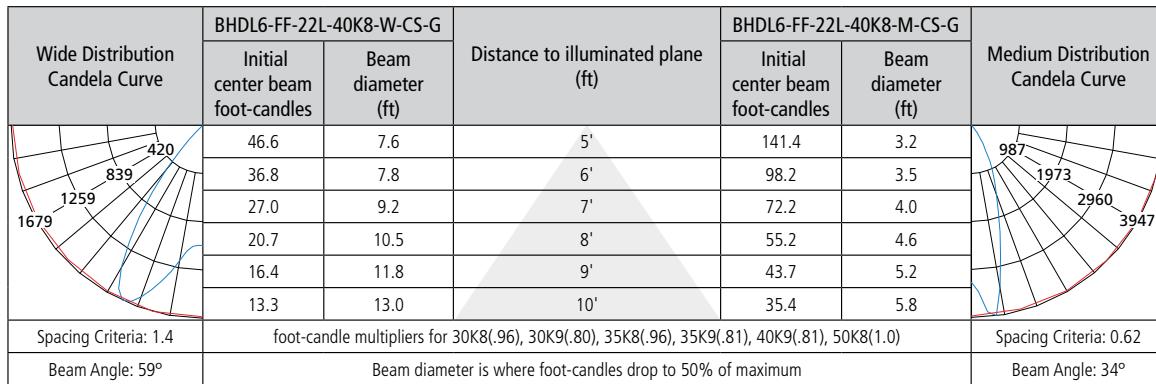
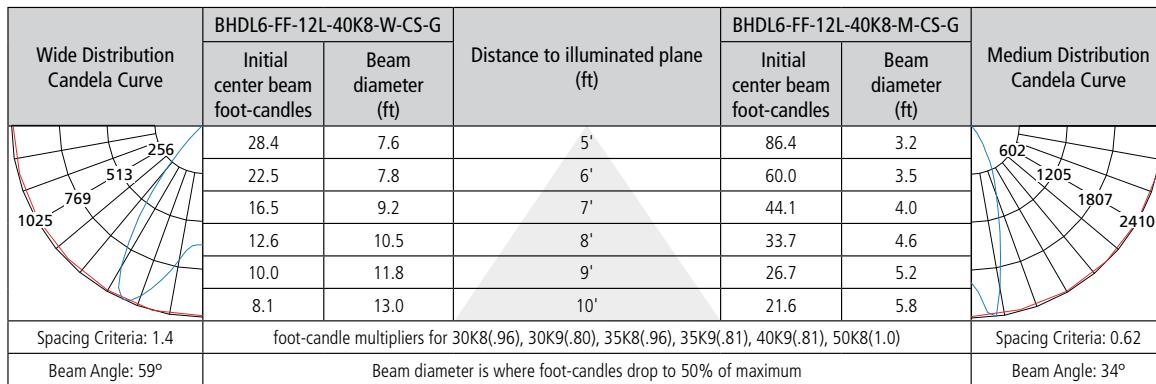
Luminaires for Behavioral Health Applications

BHDL SERIES

PERFORMANCE

| Optic | | | Lamp Power | Initial Delivered Lumens, By Lamp Color | | | | | | | Efficacy (lm/W) | Input Power (W) | Estd. L70 LED Life (hrs) |
|--------------|------------------|-----------|------------|---|-------|-------|-------|-------|-------|-------|-----------------|-----------------|--------------------------|
| Distribution | Reflector Finish | Lens Type | | 30K8 | 30K9 | 35K8 | 35K9 | 40K8 | 40K9 | 50K8 | | | |
| WW | G | CSS | 12L | 853 | 713 | 853 | 722 | 887 | 722 | 906 | 48 - 60 | 15 | 80,000 |
| | | | 22L | 1,396 | 1,168 | 1,396 | 1,182 | 1,452 | 1,182 | 1,484 | 49 - 62 | 24 | 85,000 |
| | | | 33L | 2,023 | 1,692 | 2,023 | 1,712 | 2,104 | 1,712 | 2,150 | 48 - 61 | 35 | 70,000 |
| | | | 55L | 3,609 | 3,018 | 3,609 | 3,054 | 3,754 | 3,054 | 3,835 | 49 - 62 | 62 | 75,000 |
| | 9 | CSS | 12L | 751 | 628 | 751 | 635 | 781 | 635 | 798 | 42 - 53 | 15 | 80,000 |
| | | | 22L | 1,229 | 1,028 | 1,229 | 1,040 | 1,278 | 1,040 | 1,306 | 43 - 54 | 24 | 85,000 |
| | | | 33L | 1,781 | 1,489 | 1,781 | 1,507 | 1,852 | 1,507 | 1,892 | 43 - 54 | 35 | 70,000 |
| | | | 55L | 3,177 | 2,657 | 3,177 | 2,689 | 3,304 | 2,689 | 3,376 | 43 - 54 | 62 | 75,000 |

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MEDMASTER DOWNLIGHT

Luminaires for Behavioral Health Applications

BHDL SERIES

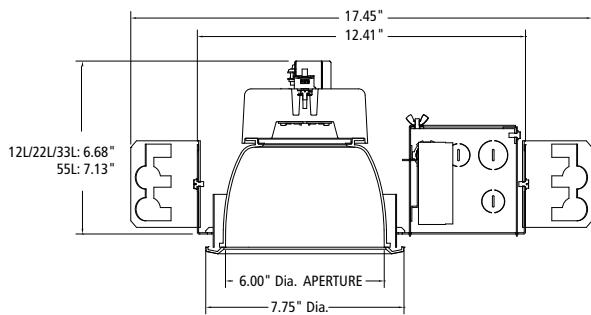
PERFORMANCE

For additional photometry, go to www.kenall.com

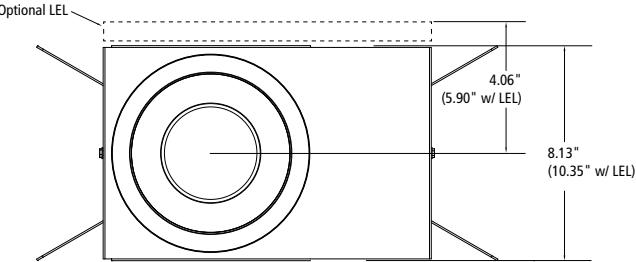
| Wide Distribution Candela Curve | BHDL6-FF-55L-40K8-W-CS-G | | Distance to illuminated plane (ft) | BHDL6-FF-55L-40K8-M-CS-G | | Medium Distribution Candela Curve |
|------------------------------------|--|--------------------------|---------------------------------------|--|--------------------------|--------------------------------------|
| | Initial center beam foot-candles | Beam diameter (ft) | | Initial center beam foot-candles | Beam diameter (ft) | |
| | 120.4 | 7.6 | 5' | 365.5 | 3.2 | |
| | 95.2 | 7.8 | 6' | 253.8 | 3.5 | |
| | 69.7 | 9.2 | 7' | 186.5 | 4.0 | |
| | 53.4 | 10.5 | 8' | 142.8 | 4.6 | |
| | 42.5 | 11.8 | 9' | 112.8 | 5.2 | |
| | 34.4 | 13.0 | 10' | 91.4 | 5.8 | |
| Spacing Criteria: 1.36 | foot-candle multipliers for 30K8(.96), 30K9(.80), 35K8(.96), 35K9(.81), 40K9(.81), 50K8(1.0) | | | | Spacing Criteria: 0.36 | |
| Beam Angle: 54° | Beam diameter is where foot-candles drop to 50% of maximum | | | | Beam Angle: 21° | |

DIMENSIONAL DATA

CROSS SECTION



BOTTOM VIEW



RECOMMENDED CEILING CUT-OUT: 7.38" Dia.



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4.2.1 Project Description: Low Voltage Systems Design Narrative

INTRODUCTION

This preliminary design narrative has been prepared for Worley Associates Architects. Described within this report are the system summaries for various low-voltage systems to be specified for the Crisis Service Center in Williamsburg, VA. Low-voltage systems to be specified and included in this section are listed below.

1. Access Control Security Systems
2. Video Surveillance Security Systems
3. Telecommunications Structured Cabling System Infrastructure
4. Audiovisual Systems Infrastructure

The proposed design criteria are based on meetings with Worley Associates Architects, nationally recognized standards, industry best practices, and Convergent Technologies' experience with similar projects throughout the country.

ELECTRONIC SECURITY - ACCESS CONTROL SYSTEM

The Access Control System will restrict entrance to the building via locks, keys, and an electronic card access system. Door access shall be accomplished via a proximity card readers and electrified door hardware.

Throughout the Crisis Service Center building, electronic access control (EAC) will restrict access into and within the building and provide automated, scheduled locking of select spaces (as needed).

All exterior doors shall be equipped with, at a minimum, door position switches (DPS) to allow staff notification in case of a propped door or forced entry.

Exterior doors with electronic locking shall be equipped with card readers, door position switches (DPS) and request-to-exit (REX) sensors to allow staff notification in case of propped door or forced entry.

Typical card reader locations shall include:

- 1) Building Entrances
- 2) Secured Entry off of Sally port with man trap functionality
- 3) Unit/Suit Entries
- 4) Medication Rooms
- 5) Other security storage spaces

Low voltage cabling will be required from each wired door/access location to nearest Telecom Room (TR). The low voltage documents provided by the Design Team will define infrastructure required for electronic access control elements.

Power for access control system components and electronic locks will be delivered from remote power supplies within TRs. Power supplies for electric mortise locks, electric exit devices, and electric strikes will be included in the low voltage specifications. Wall-mounted automatic operators, ADA push-buttons will be specified by door hardware provider and may require local 120V power. Emergency power is to be provided for all access control system elements.

4.2.1 Project Description: Low Voltage Systems Design Narrative

All electrified locksets, strikes, and magnetic locks will be specified by the Design Team and included in the door hardware schedule and specifications. Auto door motors, specified in the door hardware documents, will need to be controllable and lockable and be able to interface with access control systems. All electronic locking hardware shall include integrated door position switches and request-to-exit (REX) functionality.

The EAC system shall be integrated with the video surveillance system to support automated staff notification, video access, and incident recording in case of forced entry.

ELECTRONIC SECURITY – VIDEO SURVEILLANCE

The Video Surveillance system will be used for Surveillance of exterior spaces, entrance/exits to the buildings, and common area spaces via hard wired video cameras. The proposed system will include remote video cameras located at strategic locations throughout the facilities and associated parking areas. The camera locations will be determined in conjunction with security representatives. All cameras will be IP type. At a minimum the recording policy archives to be 30 days in duration.

Typical surveillance camera locations will include:

1. Exterior
 - a. Building perimeter – special attention will be given to sheltered areas identified as higher risk for loitering.
 - b. Sally Port
 - c. Security Outdoor Area
2. Building interior
 - a. Building Entrances
 - b. Sally Port
 - c. Waiting Rooms
 - d. Holding rooms
 - e. Medication Rooms
 - f. Public Corridors
 - g. Staff Desk Stations

A surveillance camera monitoring station will be provided in the Security Office. Staff work stations will also have monitoring stations with specific cameras available to view

Each camera requires one category cable with Power over Ethernet (PoE). Category cable connections shall terminate in a single gang faceplate. The camera cabling shall terminate in 24-port, rack-mounted patch panels dedicated to video systems. No video system cabling will be exposed to the public.

Several camera types will be used: Multi-sensors panoramic cameras, Fisheye panoramic cameras, Fixed, varifocal cameras

The surveillance system shall be viewable from any authorized PC workstation or mobile device via the surveillance system app. Remote access shall be possible via VPN. The surveillance system shall be integrated with the access control system to automatically display feeds for selected events.

4.2.1 Project Description: Low Voltage Systems Design Narrative

TELECOMMUNICATIONS STRUCTURED CABLING SYSTEM INFRASTRUCTURE

The following outlines design and performance features for the telecommunications Structured Cabling System (SCS) Infrastructure. The SCS shall be installed to support the majority of the Information Technology (IT) systems requirements, building management systems, audiovisual, security and access control systems.

This narrative also describes the Telecommunications Rooms (TRs) required to support the SCS. These rooms require coordination with the architect, as well as the electrical, mechanical and structural engineers.

CTDG will use the following specifications as the basis of design for the Crisis Service Center SCS and TRs.

1. Outside Plant Cabling Connection

Four (4) 4" Conduits shall be provided to the property line for service provider entrance.

Further coordination will be required with Internet Service Providers (ISPs) to determine specific requirements for building entrance locations and conduit size/quantities.

Conduit sleeves will be included to the roof for any antenna requirements.

2. Intra-Building Vertical Riser System

The building is of a size that it can be served from a single telecom room. No Riser is anticipated.

3. Communications Horizontal Cabling

Per the RFP, CBH is providing low voltage telecommunications cabling and equipment. It is our assumption that all building network cables will be terminated onto Category 6 48-port patch panels in each TR. Horizontal wire management will be provided above and below each patch panel. At station outlets, the Category 6 cables will terminate onto 8-position, 8-conductor modules, colored to match the faceplates, which will be single gang and colored to match the electrical faceplates.

4. Communications Cable Pathway

The primary intra-building horizontal pathway systems pathway for telecommunications cabling throughout the interior of building will be via cable tray. The cable tray will be sized to accommodate 50% fill capacity of specified cables. For any cable tray that passes through a rated wall the cable tray will stop and fire stop sleeves that match the walls rating will be placed in the wall space.

The secondary pathway will be non-continuous cable supports (NCCS) "J-hooks" that will be utilized for any areas between conduit stub-ups and cable tray that exceeds 1.2m. The NCCS will be installed between 1.2m and 1.5m centers. The outlet pathway will include EMT conduit stubbed to accessible above finished ceiling space or cable tray. The EMT fill ratio is not to exceed 40% with 3 or more cables.

5. TR Room Categories

4.2.1 Project Description: Low Voltage Systems Design Narrative

The Telecommunication Room (TR) is an enclosed architectural space for housing telecommunications equipment, cable terminations, and cross-connect cabling. The following sub-categories describe the different requirements for each TR.

- 1) Horizontal cross-connect (HC): A group of connectors (e.g., patch panel or punch-down block) that allows equipment and backbone cabling to be cross-connected with patch cords or jumpers. Floor distributor is the international equivalent term for horizontal cross-connect.
- 2) Intermediate cross-connect (IC): The connection point between a backbone cable that extends from the main cross-connect (campus distributor [first-level backbone]) and the backbone cable from the horizontal cross-connect (floor distributor [second-level backbone]). Building distributor is the international equivalent term for intermediate cross-connect.
- 3) Main cross-connect (MC): The cross-connect normally located in the (main) equipment room for cross-connection and interconnection of entrance cables, first-level backbone cables, and equipment cables. Campus distributor is the international equivalent term for main cross-connect. (MDF or BDF)
- 4) Entrance facility (EF): An entrance to a building for both public and private network service cables (as well as wireless) including the entrance point at the building wall and continuing to the entrance room or space.

The maximum cable length distance between the TR room and the end user outlet should not exceed 290'.

6. Architectural Room Design

The TR walls shall extend from the finished floor to the structural ceiling (slab), be covered with two coats of fire-retardant white paint (or other light-colored finish), and be fire-rated as required by the applicable codes and regulations. Three of the TR walls shall be covered with a 19mm (3/4 trade size) A-C graded plywood backboard, securely fastened to the supporting walls with the A grade surface face out and painted with at least two coats of fire-retardant paint which matches interior room color.

The TR ceiling recommended height from the finished floor to the finished ceiling is at least 8.5 feet. Any ceiling protrusions (e.g., sprinkler heads) must be placed to assure a minimum clear height of 8 feet that is clear of obstructions. This is to provide space over the equipment frames for cables and suspended cable/ladder trays. The ceiling finish should minimize dust and be light colored to enhance the room lighting.

The TR floor shall be a concrete surface coated with a static dissipative and nonconductive porous surface sealant designed for high-technology environments or if floor tile is used then the floor tile shall be Electrostatic Discharge type that is bonded to the TR busbar with a measured resistance between of < 1 Ohm.

The TR doorways that are planned for use during equipment delivery must have fully opening, lockable doors that are at least 3 feet wide and 7 feet tall. Wherever possible, the doors to all TR's should open outward. All TR doors shall be securable with restricted key card access.

7. Bonding And Grounding

4.2.1 Project Description: Low Voltage Systems Design Narrative

TR bonding/grounding is to conform to the following codes, standards, and practices: NFPA 70 of NEC, ANSI J-STD-607-D, IEEE, latest edition of BICSI method manual and all applicable National, State and Local building codes. Each TR space requires a telecommunications Secondary Bonding Busbar (SBB) connected to a telecommunications Primary Bonding Busbar (PBB) and bonded to approved building ground. All TR space connections are to be bonded with a minimum 6 AWG conductor with compression crimp style connectors with a double lug pattern for busbar connections and for all other connections. The use of stainless-steel hardware for connection is required. Each equipment rack should have its own telecommunications equipment bonding conductor (TEBC) sized at 6AWG wire run to the SBB. The ladder tray bonding may be daisy chained. Consideration should also be given to a Telecommunications Bonding Backbone (TBB) size of up to 750 kcmil. The TBB is to be connected to the Electrical Service Ground.

If the environment requires communications copper cabling entrance protection in the TR then all copper entrance cable to be terminated in a protected entrance terminal and protected by 240VDC solid state type modules that are UL497 listed.

AUDIOVISUAL SYSTEMS INFRASTRUCTURE

Per the RFP, CBH is providing AV wiring & equipment. Audiovisual systems equipment, wiring, installation and programming shall be part of a turn-key system by a single installation contractor.

The Design-Build Contractor will also be responsible for providing the required infrastructure to support each of the functions of the AV systems, as well as coordinating with the installation team to ensure that all necessary infrastructure (boxes and conduits) as well as support structures (i.e. blocking in walls, Unistrut to support elements above ceiling, etc.) is provided in the base building to support the AV systems. Coordination shall also include the required electrical services, mechanical cooling and ADA compliance.

The primary pathway in rooms will be non-continuous cable supports (NCCS) "J-hooks" that will be utilized for any areas between conduit stub-ups, installed at 5 foot intervals. The outlet pathway will include Electrical Metallic Tubing (EMT) conduit stubbed to accessible above finished ceiling space as described per box below. All outlet locations shall have metallic backboxes to house the associated device. Backboxes shall also be used to support cabling bundles that connect to racks of equipment.

All audiovisual cabling shall be hidden and/or protected. Cabling should be installed above finished ceiling to discourage tampering. Any locations that do not have an accessible ceiling for a pathway shall use EMT from the device location to a major cable pathway above ceiling.

Basis of Design (for pricing) Finish Legend

FLOORING

| Tag | Material | Manufacturer | Product | Description | NOTES |
|-------|-----------------------------------|----------------------|---|---|-------|
| CPT-1 | Carpet Homogeneous Sheet Vinyl | Interface Tarkett | Open Air 418 iQ Granit | 19.69 in x 19.69 in 6' 6" roll (Thickness : 2mm) | |
| RES-2 | Homogeneous Sheet Vinyl | Tarkett | iQ Granit | 6' 6" roll (Thickness : 2mm) | |
| LVT-1 | Luxury Vinyl Tile | Tarkett | True to form collec- | 3 mm, 32 mil wear layer | |
| LVT-2 | Luxury Vinyl Tile | Tarkett | True to form collec- | 3 mm, 32 mil wear layer | |
| RES-3 | Rubber | Johnsonite | Mesto Configura- | 24 "x 12 " | |
| PFT-1 | Porcelain Tile | Crossville | Portugal | 12" x 24"(Thickness : 10.5 mm) | |

BASE

| Tag | Material | Manufacturer | Product | Description | NOTES |
|-----|-------------------|--------------|----------------------------------|-------------|----------------------------|
| B1 | Rubber Wall Base | Johnsonite | Rubber Base | 4" | 4" with toe |
| B2 | Ceramic Wall Base | Crossville | Color By Numbers | 4" x 12" | with Scluter DILEX-HK cove |
| B3 | Self Cove | Tarkett | iQ Granit | 4" | profile, PVC |

WALLS

| Tag | Material | Manufacturer | Product | Description | NOTES |
|-------|-------------------|--------------------------|---|------------------------|-------------------------|
| PT-1 | Paint | Sherwin Williams | Low VOC, eggshell Finish | | Field paint |
| PT-2 | | Sherwin Williams | Low VOC, eggshell Finish | | Accent 1 |
| PT-3 | | Sherwin Williams | Low VOC, eggshell Finish | | Accent 2 |
| PT-4 | | Sherwin Williams | Low VOC, semi-gloss | | Trim |
| WP-1 | Wall Protection | Wolf Gordon | Rampart | Width : 52" | pattern visual |
| WP-2 | | Construction | Acrovyn Woodgrains | 4'x8' panels | wood visual |
| WP-3 | | Construction Specialties | Acrovyn Custom Graphics | 4'x8' panels | custom digital art |
| AWP-1 | Acoustic Wall | Autex | Groove | 1" thick wall panels | |
| AWP-2 | Acoustic Wall | Autex | Groove | 1/2" thick wall panels | |
| SCR-1 | Screen | 3Form | Il tuo | Halfwall system | with Varia and wood top |
| CWT-1 | Ceramic Wall Tile | Crossville | Color by Numbers | 4" x 12" | Satin Finish |

Basis of Design (for pricing) Finish Legend

CEILING

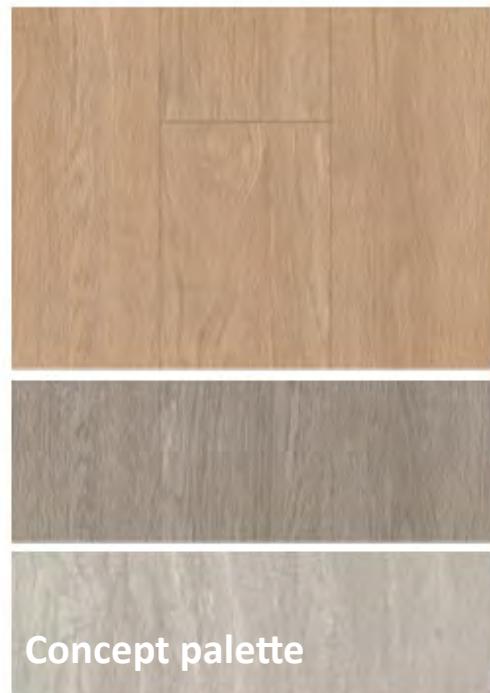
| Tag | Material | Manufacturer | Product | Description | NOTES |
|-------|-------------------------|------------------|--------------------------------|--|-----------------------------|
| ACT-1 | Acoustic Ceiling System | Armstrong | Metalworks | 24" x 24", M1 panels, 24 in x 24 in. 15/16" grid | Woodlook finish, perforated |
| ACT-2 | | Armstrong | Calla (Lay-In) | | |
| PT-5 | Paint | Sherwin Williams | Low VOC, eggshell Finish | | Ceiling paint |

CASEWORK

| Tag | Material | Manufacturer | Product | Description | NOTES |
|--------|------------------|--------------|---------------------|----------------|----------|
| PLAM-1 | Plastic Laminate | Formica | HPL | Wood Visual | Casework |
| PLAM-2 | | Formica | HPL | Pattern Visual | Casework |
| SS-1 | Solid Surface | Formica | Everform | Frost | Counters |

Finish Notes:

1. Floor to ceiling corner guards on all outside corners.
2. Walk off carpet tiles at all building entrances.
3. Schlueter edge and corner details with ceramic tile floor to base, inside and outside corners, and edge trim.
4. Ceramic tile is to be large format, 12 x 24" to 18" x 36" where ever possible.
5. All trims PT-4



Finish Design Criteria

OBJECTIVES

Aesthetics

The style and aesthetics of the interior spaces will reflect the local communities of Jamestown and Williamsburg. To keep the interiors welcoming, calming and limit distracting visual complexity the design keeps with simple geometries that follow the hierarchy of the floor plan. Clean lines with a tidewater calm palette, soft hues of blues and greens and accents of warmth from wood visuals and dawn yellows.

Life Safety

Products specified are Class A or Class 1, are in accordance with the NFPA 101 Life Safety Code. All adhesives are water-based, non-toxic and emit no or low-level VOCs. Application of materials and finishes comply with current ABA (Architectural Barriers Act) regulations.

Cost

Products are cost-effective over their anticipated life cycle. Finishes should be durable and of an appropriate level of quality for use in a behavioral health facility.

Durability

Products can be easily cleaned using solvent-free, water-based cleaners. Most products selected are stain resistant. Products are selected for maximum longevity according to their intended use. Carpet tiles are 100% solution dyed nylon, Vinyl and polyurethane upholsteries incorporate anti-microbial, stain resistant and ink resistant finishes. Upholsteries have a minimum of 75,000 double rubs.

SUMMARY

- **Ligature-resistant**

Room fixtures and hardware should be specifically designed to prevent the attachment of ligatures in order to protect patients from inflicting self-harm.

No flooring cap

For safety reasons, plastic or metal flooring caps shall not be used, even in wet areas.

- **Tamper-resistant**

Patients must not be able to pick or remove transition strips between different finishes where floors and walls meet.

Impact-resistant

Walls should be capable of enduring heavy impact without cracking or splintering to create potential health hazards.

- **Water-resistant / cleanable**

Flooring shall be unaffected by wet cleaning, germicides and other types of cleaning solutions.

CODES & REFERENCES

IBC -International Building Code

ADA - Americans with Disabilities Act

FGI Guidelines - FGI Guidelines for Design and Construction of Hospitals.

HIPAA - Health Insurance Portability and Accountability Act, 1996

IAHSS - International Association for Healthcare Security and Safety

NFPA - National Fire Protection Association, NFPA 101 – Life Safety Code

NIC - National Institute of Corrections

RFP Attachment A - Program Requirements

RFP Attachment D - CBH Vision and Guidance

Room Finish Schedule

Finish Schedule Notes:

- A. See narrative for additional information
- B. Includes Casework, see narrative for additional information

| Room | Floors | | | | | | Base | | | Walls | | | | | | Ceiling | | Notes | | | |
|--|--------|-------|-------|-------|-------|-------|-------|-----|-----|-------|------|------|------|------|------|---------|-------|-------|-------|-----|-------|
| | CPT-1 | RES-1 | RES-2 | RES-3 | LVT-1 | LVT-2 | PFT-1 | B-1 | B-2 | B-3 | PT-1 | PT-2 | PT-3 | WP-1 | WP-2 | WP-3 | AWP-1 | AWP-2 | CWT-1 | ACT | Paint |
| Administration/General Support | | | | | | | | | | | | | | | | | | | | | |
| Patient Waiting - CSU and CRC | | | | | ● | ● | | ● | | | ● | ● | | | | ● | ● | ● | | ● | A, B |
| Library/Media - Patient Education Area | ● | | | | | | | ● | | | ● | | | | | | | | | | ● |
| Visitor/Patient Toilet - Unisex | | | | | | ● | | ● | | | | | | | | | | | | ● | ● |
| Main Circulation Corridor | | | | | ● | ● | | ● | | | ● | ● | ● | | | ● | ● | | | ● | ● |
| Secured Holding for Patient Belongings (Centralized Support) | | | | | ● | | ● | | | | ● | | | | | | | | | | ● |
| Lab/Stat Results (Centralized Support) | ● | | | | | | | ● | ● | | | | | | | | | | | | ● |
| Medication Workroom | ● | | | | | | ● | | ● | | ● | | | | | | | | | ● | B |
| Laundry (Centralized Support) | ● | | | | | | | ● | ● | | | | | | | | | | | | ● |
| Nourishment/Holding Kitchen (Centralized Support) | ● | | | | | | | ● | ● | | | ● | | | | | | | | ● | B |
| Clean Utility (Centralized Support) | ● | | | | | | | ● | ● | | | ● | | | | | | | | | ● |
| Emergency Services (ES) Administrative Assistant (Reception) | ● | | | | | | | ● | | ● | | | | | | | | | | ● | B |
| ES Coordinator Office | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| ES Manager Office | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| ES/Mobile Crisis Unit Specialist Team Room (5 Workstations) | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| Peer Support Specialist Team Room (5 Workstations) | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| CRC Manager Office | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| Clinician IIII - Licensed Therapist Office | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| Crisis Counselor/CSU Team Room (5 Workstations) | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| Psychiatrist/Nurse Practitioner Office | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| CSU Licensed Therapist Office | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| CSU Clinicians Office | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| Private Interview/Consult Room | ● | | | | | | | ● | | ● | | ● | | | | ● | | | | ● | |
| Supply/Copy Room | | | | | | | | ● | | ● | | ● | | | | | | | | ● | B |
| Conference Room | ● | | | | | | | ● | | ● | | ● | | | | ● | | | | ● | |
| Breakroom | | | | | | | | ● | | ● | | ● | | | | | ● | | | ● | B |
| Staff Restroom | | | | | | | | ● | | ● | | ● | | | | | ● | | | ● | |
| Lactation Room | ● | | | | | | | ● | | ● | | ● | | | | | | | | ● | |
| Staff Respite Room | ● | | | | | | | ● | | ● | | ● | | | | ● | | | | ● | |

Room Finish Schedule

| Room | Floors | | | | | | Base | | | Walls | | | | Ceiling | | Notes | | | | | |
|---------------------------------|--------|-------|-------|-------|-------|-------|-------|-----|-----|-------|------|------|------|---------|------|-------|-------|-------|-------|-----|-------|
| | CPT-1 | RES-1 | RES-2 | RES-3 | LVT-1 | LVT-2 | PFT-1 | B-1 | B-2 | B-3 | PT-1 | PT-2 | PT-3 | WP-1 | WP-2 | WP-3 | AWP-1 | AWP-2 | CWT-1 | ACT | Paint |
| CSU (Crisis Stabilization Unit) | | | | | | | | | | | | | | | | | | | | | |
| Quiet Room/Family/Sensory | ● | | | | | | | ● | | | ● | | | | | | | | ● | A | |
| CSU Circulation Corridor | | ● | ● | | | | | | ● | | ● | ● | | | | | | | ● | A | |
| Bedrooms | | ● | ● | | | | | ● | | | ● | | | | | | | | ● | A | |
| Activity Area/Dining Area | | ● | | | | | | ● | | | ● | | | | | | | | ● | | |
| Small Group Room | ● | | | | | | | ● | | | ● | | | | | | | | ● | | |
| Staff Work (Nurse) Station | | ● | | | | | | ● | | | ● | | | | | | | | ● | | B |
| Telemed/Consult Room | ● | | | | | | | ● | | | ● | | | | | | | ● | ● | | |
| Patient Restroom with Shower | | | | | | | | ● | | | ● | | | | | | | ● | ● | | |
| Staff Restroom | | | | | | | | ● | | | ● | | | | | | | ● | ● | | |
| Soiled Holding | | ● | | | | | | | | | ● | | | | | | | | ● | ● | |

| Room | Floors | | | | | | Base | | | Walls | | | | Ceiling | | Notes | | | | | |
|--------------------------------------|--------|-------|-------|-------|-------|-------|-------|-----|-----|-------|------|------|------|---------|------|-------|-------|-------|-------|-----|-------|
| | CPT-1 | RES-1 | RES-2 | RES-3 | LVT-1 | LVT-2 | PFT-1 | B-1 | B-2 | B-3 | PT-1 | PT-2 | PT-3 | WP-1 | WP-2 | WP-3 | AWP-1 | AWP-2 | CWT-1 | ACT | Paint |
| CRC (Crisis Receiving Center) | | | | | | | | | | | | | | | | | | | | | |
| Child/Adolescent Waiting | | | | | | | | ● | | | ● | | | | | | | | | | |
| Child/Adolescent Assessment/Holding | | | | | | | | ● | | | ● | | | | | | | | | | |
| Security Station/Police Wait | | | | | | | | ● | | | ● | | | | | | | | | | |
| Security Office | ● | | | | | | | | | | ● | | | | | | | | | | |
| Triage/Search | | ● | | | | | | | | | ● | | | | | | | | | | |
| Quiet Room/Sensory | | ● | | | | | | | | | ● | | | | | | | | | | |
| Seclusion/Secure Holding Room | | ● | | | | | | | | | ● | | | | | | | | | | |
| Seclusion Vestibule | | ● | | | | | | | | | ● | | | | | | | | | | |
| Visitation/Telemed | ● | | | | | | | | | | ● | | | | | | | | | | |
| Open Bay Treatment Chairs | | ● | | | | | | | | | ● | | | | | | | | | | |
| Quiet Activity/Group | | ● | | | | | | | | | ● | | | | | | | | | | |
| Milieu Area/Loud Activity/Group | | ● | | | | | | | | | ● | | | | | | | | | | |
| Staff Work Station/ Observation Desk | | ● | | | | | | | | | ● | | | | | | | | | | B |
| Patient Restroom with Shower | | | | | | | | ● | | | ● | | | | | | | ● | ● | | |
| Staff Restroom | | | | | | | | ● | | | ● | | | | | | | ● | ● | | |
| Soiled Holding | | | | | | | | ● | | | ● | | | | | | | ● | ● | | |

| Room | Floors | | | | | | Base | | | Walls | | | | Ceiling | | Notes | | | | | |
|--|--------|-------|-------|-------|-------|-------|-------|-----|-----|-------|------|------|------|---------|------|-------|-------|-------|-------|-----|-------|
| | CPT-1 | RES-1 | RES-2 | RES-3 | LVT-1 | LVT-2 | PFT-1 | B-1 | B-2 | B-3 | PT-1 | PT-2 | PT-3 | WP-1 | WP-2 | WP-3 | AWP-1 | AWP-2 | CWT-1 | ACT | Paint |
| CITAC (Crisis Intervention Team Assessment Center) | | | | | | | | | | | | | | | | | | | | | |
| Waiting | | | | | | | | ● | | | ● | | | | | | | | | | |
| Secured Entrance/Police Escort | | | | | | | | | | | ● | | | | | | | | | | |
| Regional Court Liaison | ● | | | | | | | | | | ● | | | | | | | | | | |
| Tele-Magistrate | | ● | | | | | | | | | ● | | | | | | | | | | |
| Triage/Search/Metal Detection | | | | | | | | | | | ● | | | | | | | | | | |
| Security Station/Police Wait | | | | | | | | | | | ● | | | | | | | | | | |
| Security Office | ● | | | | | | | | | | ● | | | | | | | | | | |
| Open Bay Holding Chairs | | ● | | | | | | | | | ● | | | | | | | | | | |
| Staff Work Station/ Observation Desk | | ● | | | | | | | | | ● | | | | | | | | | | B |
| Patient Restroom with Shower | | | | | | | | ● | | | ● | | | | | | | ● | ● | | |
| Staff Restroom | | | | | | | | ● | | | ● | | | | | | | ● | ● | | |
| Soiled Holding | | | | | | | | ● | | | ● | | | | | | | ● | ● | | |
| Equipment Storage | | ● | | | | | | | | | ● | | | | | | | | ● | ● | |

Patient Waiting

As you step into the behavioral health facility, the reception and information counter greet you with a sense of clarity and openness, thanks to its strategic placement that ensures clear sightlines to the main entry and waiting area. The staff area, though enclosed for safety with a sliding glass window, blends subtly into the environment, maintaining the welcoming atmosphere that puts visitors at ease.

Navigating through the waiting area is effortless, with a layout designed for accessibility and flexibility, accommodating mobility devices with ease. Public restrooms are conveniently located just steps away, providing easy access for all visitors.

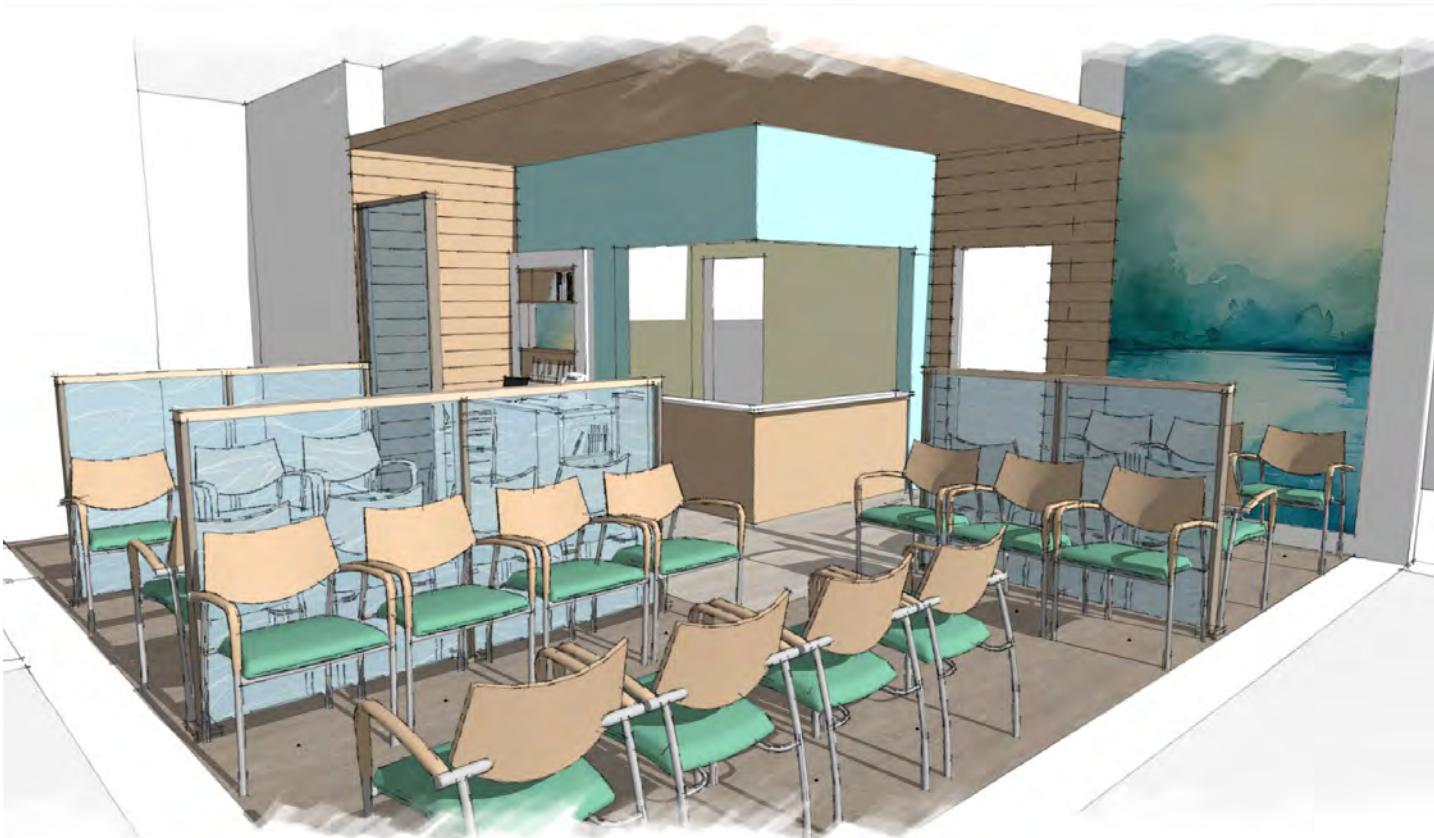
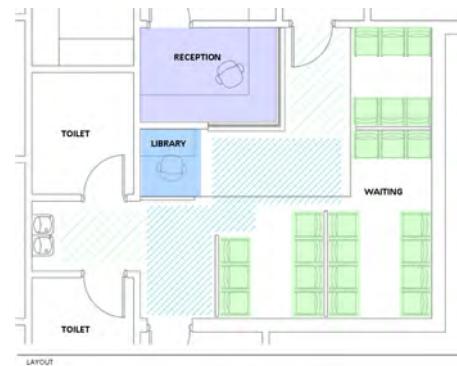
The space opens up with high ceilings and expansive exterior windows, complemented by clerestory windows that usher in an abundance of natural light.

Roller shade window coverings that are

specifically manufactured for use in behavioral health settings will control over the daylight and privacy levels.

A resource kiosk and library center, positioned adjacent to the information desk, provides a quiet nook for visitors seeking additional information or a moment of solitude. Half-height translucent walls are thoughtfully placed throughout the waiting area, creating a sense of separation without sacrificing light or visibility.

The finishes of the waiting area exude a sense of calm and wellness. Soft, soothing palettes and biophilic elements are incorporated, with murals and wood tones that evoke the tranquility of water, sky, and nature. This harmonious design fosters a serene environment, enhancing the overall experience for visitors.



Concept sketch

Patient Waiting



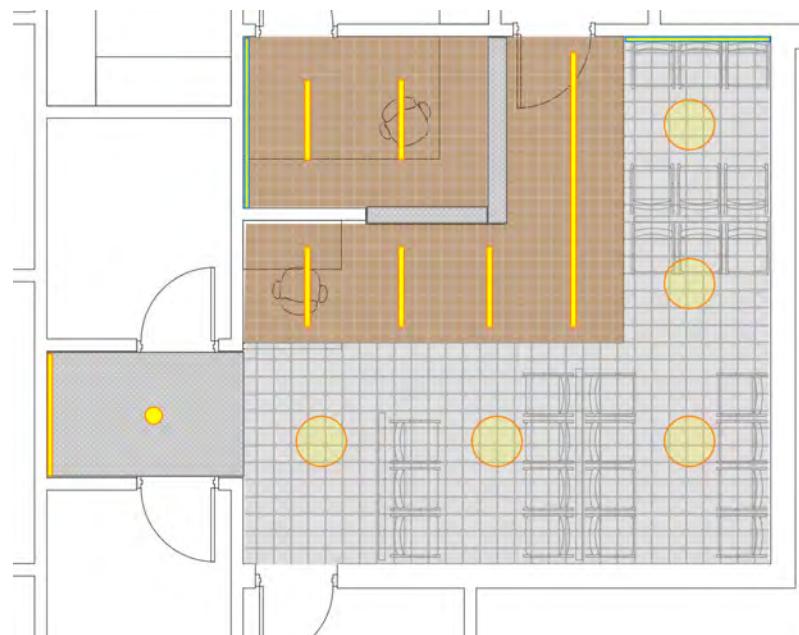
PLAN FEATURES

WALL FEATURES

| | |
|--|-------|
| | AWP-2 |
| | WP-3 |
| | SCR-1 |

FLOOR FINISHES

| | |
|--|-------|
| | LVT-1 |
| | LVT-2 |



CEILING FEATURES

CEILING FINISHES

| | |
|--|-------|
| | ACT-1 |
| | ACT-2 |
| | GYP |

ACCENT LIGHTING



Casework



RECEPTION CASEWORK BASIS OF DESIGN

PROVIDE BOTH FILE STORAGE AND CABINET STORAGE
ALL STORAGE CABINETS LOCKABLE



CARE TEAM CASEWORK BASIS OF DESIGN

PROVIDE BOTH FILE STORAGE AND CABINET STORAGE
ALL STORAGE CABINETS LOCKABLE

Main Circulation Corridor



Example of a CSU Bedroom entry

As you navigate the corridors, color blocking and biophilic murals transform the journey into a pleasant experience, clearly signaling the location of destinations.

Additional lighting features will prevent these corridors from becoming too institutional and provisions of indirect lighting prevents glare.

Bedrooms



Inside the bedrooms, natural light streams in, illuminating pops of color and various connections to nature, creating an environment that positively impacts each patient's rehabilitative journey.

Soft shaped furnishings and efficient use of space through under bed open storage will provide a place to store belongings.

These thoughtfully integrated design elements, combined with a strict emphasis on patient safety and security, ensure that each room serves as a safe sanctuary for healing and recovery.

Quiet / Sensory Rooms



The rooms will function as a quiet space to minimize stimulation from other patients or the environment. Features of these rooms include color changing lighting and acoustic privacy.

The finishes used will be a combination of calming tones of color and murals of soothing natural elements or scenes.

4.2 Project Characteristics (continued)

4.2.2 Work by CBH:

1. Our understanding is that the following would be Soft Costs paid by CBH:
 - a. Construction Testing during construction (this is contracted directly by the owner so there is not a conflict of interest with the contractor paying to have their own work tested).
 - b. Exterior Building Signage: This has not been included as often clients have a designated vendor with whom they work. If preferred by CBH, this work can be provided by our team.
 - c. Relocation of existing FFE: If there is existing furniture, fixtures, and equipment that will be reused in the new building, CBH will need to pay for moving and setup. To assist in coordinating with plans for new FF&E, our interior designers can survey existing FFE that is intended to be reused for an estimated fee of \$15,000.
 - d. New FFE: It is anticipated that new, additional furniture, fixtures, and equipment will be needed for the building. According to the interior designer an Allowance of \$500,000 should be considered for this cost. Our interior designs can work with CBH to select and order new furniture for an estimated fee of \$15,000.
 - e. Communications/AV: As noted in the RFP, CBH will provide and install low voltage telecommunications and audio/visual wiring and equipment in the building. Our team will provide needed infrastructure, including power and pathways to support these systems and will provide blocking and panels where needed for mounting equipment. CBH and/or its vendor will need to provide the information necessary for our team to design and install the needed infrastructure.
 - f. Building Security System: Surveillance camera system is included in the scope of our team's work; however, it is assumed that CBH will wish to work with an existing vendor on the building security system, if desired.
 - g. Payment of fees for water, sewer, electrical and gas connections.
2. Licensure: CBH will be responsible for fulfilling licensure requirements, including licensure by Department of Behavioral Health and Developmental Services (DBHDS) as a provider of Crisis Stabilization Services and a Crisis Receiving Center.

4.2.3 Permits Required:

1. Site Permits:
 - a. Site Plan Approval (Required by James City County): 6 – 8 month process with multiple site plan submittals to County
 - b. Land Disturbing Permit (Required by James City County): 2 – 4 week process to obtain permit after site plan approval
 - c. Construction General Permit/VSMP (Required by State of Virginia, Coordinated through James City County): Coincides with Land Disturbing Permit
 - d. Additionally, as a first step in the site design, our team will survey the nearby stream to map whether there are wetlands and/or an RPA area.
2. Demolition Permit: For removal of the existing building, including Asbestos removal. This permit can be obtained while the site plan submittal approval process is under way.
3. Building Permit, by James City County, in accordance with State of Virginia Building Code: allow for 6-10 weeks, with at least one revision submittal required. This permit can be obtained while the site plan submittal approval process is under way.
4. Electrical, Mechanical and Plumbing Permits, by James City County, in accordance with State of Virginia Building Code: These permits are submitted by the subtrades after the building permit is approved. Fees for these permits are included in the building construction cost.
5. Signage Permit, by James City County, submitted by sign vendor.

4.2.4 Anticipated adverse social, economic, archaeological, and environmental impacts:

1. Social Impacts: As this form of community-based crisis intervention is relatively new, some people in the area may not have a clear vision of the use and have concerns about impacts upon their community. Clear communication about the intended

programs, who will be served, and security measures in place will be important.

2. Economic Impacts: The site is formerly part of the Eastern State Hospital campus so there should be no negative economic impact on neighboring properties.
3. Archaeological Impacts: The existing building to be demolished is not old and this part of the does not appear to have a long history of use. There do not appear to be any archaeological impacts.
4. Environmental Impacts: The existing downstream area will be impacted by the work, so proper design, installation and maintenance of the stormwater management system will be important. As part of the design work for the stormwater management system, our team has included a wetlands assessment to create an updated Wetlands and RPA Delineation.

4.2.5 Projected positive social, economic, archaeological, and environmental impacts:

1. Social Impacts: Community-based crisis interventions have been proven to provide better services, with far less emotional trauma, for persons suffering from a mental health crisis.
2. Economic Impacts: Community-based crisis interventions costs less than traditional hospitalization. Additionally, a community based drop off point for someone suffering from a crisis provides police with a convenient and appropriate place to have the individual examined by a professional, allowing the police officer to return to their work. This saves the community money.
3. Archaeological Impacts: No positive archaeological impacts are envisioned.
4. Environmental Impacts: By providing a properly designed stormwater management system, the existing stream, which appears at times to be overwhelmed, will be stabilized.

4.2.6 Schedule for Work:

1. Schedule is attached for review.

4.2.7 Proposed assurances for timely completion:

1. Loughridge will ensure long lead items are released as the permit is approved. This includes electrical gear, mechanical units, and door frames as needed. We will also check in with subcontractors to see if anything is pushing out that is out of the ordinary. For example, roof insulation became difficult to obtain in 2021, so we want to make sure we look at every item for the job.
2. We will obtain a demolition permit to take down the building earlier to save time once the full permit is approved.
3. Bi-weekly updates of the overall construction schedule will be provided to show assurances that the job is on track.

4.2.8 Assumptions on ownership and restrictions on CBH's use of the project:

1. Electronic Files that may be released are subject to the Architect's copyright.

4.2.9 Possibilities for partial completion:

1. Due to the nature of the proposed program, and the security features included, we do not believe that partial occupancy will be a viable option.

4.2.10 Applicable Standards

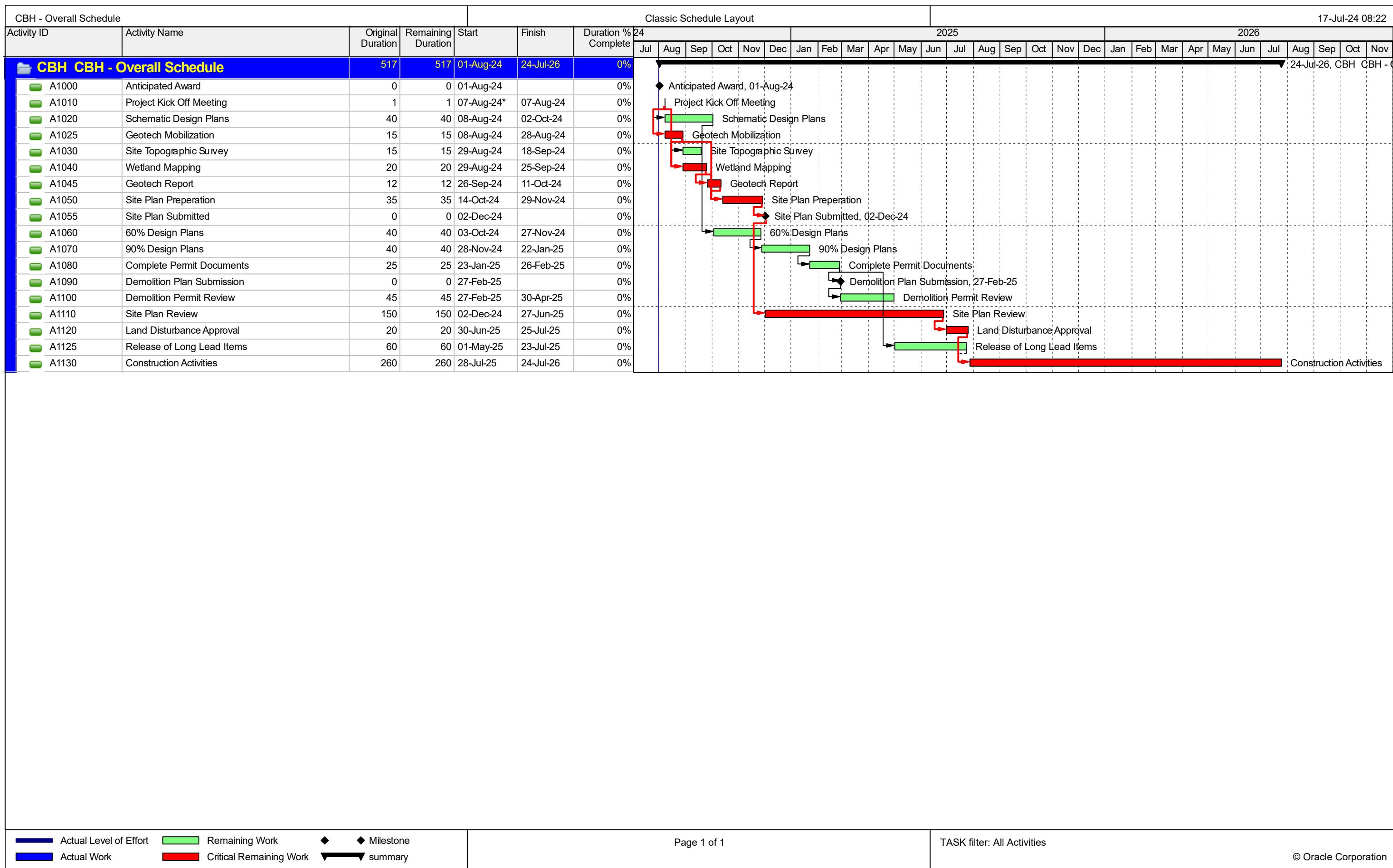
1. The building will be design in accordance with the current Virginia Construction Code, including referenced codes.
2. Applicable sections of the Americans with Disabilities Act – Architectural Guidelines will be followed.
3. Applicable NFPA codes will be followed.
4. Application sections of guidelines such as FGI's *Behavioral Health Design Guide* and SAMHSA's *National Guidelines for Behavioral Health Crisis Care* will also be utilized.

4.2.11 Assumptions for the project to be successful:

1. Maintaining the schedule for going under contract with CBH will be important for maintaining the overall schedule.
2. Conveyance of the property to CBH as currently scheduled will be important for establishing the property lines and proceeding with Site Design and Submission, which is a critical benchmark in the project schedule.
3. If an extension of Schmidt related to the development Hope Family Village is planned, it is assumed that design of this extension will be done such that it does not affect the schedule for CBH's development.

4.2.12 Contingencies

1. Loughridge will hold a 5% contingency on the project to address any issues with the build out.



4.3 Project Financing

- Site & Building Budget (incl. Design Fees)
- Soft Costs Budget
- Anticipated Schedule for Funding

Colonial Behavioral Health Crisis Center Budget



| JOB: ARCHITECT OWNER LOCATION: | Colonial Behavioral Health Crisis Center Budget Worley & Associates Architects Williamsburg, VA | BUDGET DATE: DURATION: S.F.: Acreage | 7/17/2024 12 months 15250 1.6 |
|---|---|---|--|
| SCTN | DIVISION | RANGE IN PRICING | RANGE IN COST/SF |
| <u>01</u> | GENERAL CONDITIONS GENERAL DIRECT COSTS - Temp Fencing, Cleaning, Layout | \$480,000 \$45,000 | \$31.48 \$2.95 |
| <u>03</u> | CIP CONCRETE | \$277,074 | \$18.17 |
| <u>04</u> | MASONRY | \$319,956 | \$20.98 |
| <u>05</u> | METALS | \$457,305 | \$29.99 |
| <u>06A</u> | ROUGH CARPENTRY | \$37,367 | \$2.45 |
| <u>06B</u> | FINISH CARPENTRY & CASEWORK | \$175,500 | \$11.51 |
| <u>07B</u> | AIR BARRIER/INSULATION | \$79,994 | \$5.25 |
| <u>07C</u> | ROOFING | \$398,852 | \$26.15 |
| <u>07D</u> | SIDING & EXTERIOR FINISH CARPENTRY | \$457,064 | \$29.97 |
| <u>07E</u> | FIRESTOP & CAULKING | \$25,063 | \$1.64 |
| <u>08A</u> | HM & WD DOORS, FRAMES, HARDWARE | \$149,386 | \$9.80 |
| <u>08B</u> | OVERHEAD DOOR | \$12,600 | \$0.83 |
| <u>08D</u> | STOREFRONT, CURTAINWALL, GLAZING, FILM | \$143,270 | \$9.39 |
| <u>08E</u> | LOUVERS | w/mech | w/mech |
| <u>09A</u> | FRAMING, GYPSUM, ACT | \$842,164 | \$55.22 |
| <u>09B</u> | FLOORING | \$167,282 | \$10.97 |
| <u>09C</u> | PAINTING | \$40,600 | \$2.66 |
| <u>10A</u> | SIGNAGE - just code | \$63,800 | \$4.18 |
| <u>10C</u> | TOILET PARTITIONS & ACCESSORIES | \$23,859 | \$1.56 |
| <u>10D</u> | FIRE EXTINGUISHERS & CABINETS | \$1,774 | \$0.12 |
| <u>10E</u> | LOCKERS & SHELVING | \$44,232 | \$2.90 |
| <u>10F</u> | WALL PROTECTION | \$155,302 | \$10.18 |
| <u>10H</u> | CANOPIES | \$3,375 | \$0.22 |
| <u>11A</u> | APPLIANCES - BREAKROOM & LAUNDRY | \$8,200 | \$0.54 |
| <u>11B</u> | INSTALL OWNER FURNISHED EQUIPMENT | \$4,800 | \$0.31 |
| <u>12A</u> | WINDOW TREATMENTS | \$27,800 | \$1.82 |
| | | \$29,190 | \$1.91 |

| | | | | | | |
|------------|--|------------------|--------------------|--------------------|-----------------|-----------------|
| <u>21A</u> | SPRINKLER & FIRE SUPPRESSION SYSTEMS | | \$84,100 | \$123,305 | \$5.51 | \$8.09 |
| <u>22A</u> | PLUMBING & MECHANICAL | | \$1,472,963 | \$1,581,766 | \$96.59 | \$103.72 |
| <u>26A</u> | ELECTRICAL & FIRE ALARM | | \$1,247,813 | \$1,310,203 | \$81.82 | \$85.91 |
| <u>27A</u> | COMMUNICATIONS & SECURITY | rough in w/above | | rough in w/above | | |
| <u>02</u> | EXISTING BUILDING DEMOLITION & ABATEMENT | | \$238,000 | \$249,900 | \$15.61 | \$16.39 |
| <u>31A</u> | SITEWORK, incl Connection & SWM Fees | | \$1,078,263 | \$1,132,176 | \$70.71 | \$74.24 |
| <u>31B</u> | FENCING | | \$23,475 | \$24,649 | \$1.54 | \$1.62 |
| <u>31C</u> | LANDSCAPING & IRRIGATION | | \$70,000 | \$73,500 | \$4.59 | \$4.82 |
| <u>31D</u> | TERMITE TREATMENT | | \$1,441 | \$1,513 | \$0.09 | \$0.10 |
| - | Subtotal | | \$8,657,673 | \$9,135,536 | | |
| | Construction Contingency | 3.000% | \$259,730 | \$274,066 | | |
| | Builders Risk Policy | 0.006% | \$6,337.42 | \$6,687 | | |
| | Liability Insurance | 0.400% | \$34,631 | \$36,542 | | |
| | License Fee | 0.160% | \$13,852 | \$14,617 | | |
| | Building Permit | | see Owner Costs | See Owner Costs | | |
| | Construction Fee | 4.00% | \$346,307 | \$365,421 | | |
| | TOTAL BUDGET W/O Bond | | \$9,318,530 | \$9,832,870 | \$611.05 | \$644.78 |
| 100000 | GC P&P Bond - First 100,000 | 0.0118 | \$1,180 | \$1,180 | | |
| 500000 | GC P&P Bond - Next 400,000 | 0.00944 | \$4,720 | \$4,720 | | |
| 2500000 | GC P&P Bond - Next 2,000,000 | 0.00826 | \$20,650 | \$20,650 | | |
| 5000000 | GC P&P Bond - Next 2,500,000 | 0.00708 | \$35,400 | \$35,400 | | |
| 7500000 | GC P&P Bond - Next 2,500,000 | 0.0059 | \$44,250 | \$44,250 | | |
| | GC P&P Bond - Over \$7,500,000 | 0.00531 | \$9,656 | \$12,388 | | |
| | Add to bond if over 12 months | 0.000% | \$0 | \$0 | | |
| | PAYMENT & PERFORMANCE BOND | | \$115,856 | \$118,588 | | |
| | BUDGET WITH BOND | | \$9,434,386 | \$9,951,458 | \$618.65 | \$652.55 |
| | DESIGN COSTS | | | | | |
| | Deisgn Fees | | \$785,000 | \$785,000 | | |
| | Deisgn Contingency | | not expected | not expected | | |
| | Professional Liability Insurnace | | not required | not required | | |
| | TOTAL DESIGN COSTS | | \$785,000 | \$785,000 | \$51.48 | \$51.48 |
| | OWNER COSTS | | \$1,250,000 | \$1,250,000 | | |
| | Testing & Inspection Fees | | w/above | w/above | | |

| | | | | | | |
|--|--|--------|---------------------|---------------------|-----------------|-----------------|
| | Building Permit Fees - Based on SF | 0.1365 | w/above | w/above | | |
| | Utility Connection Fees | | w/above | w/above | | |
| | Land Disturbance & Stormwater Management/Insp Fees | | w/above | w/above | | |
| | FF&E Cost/Allowance | | w/above | w/above | | |
| | Any other Owner Costs | | w/above | w/above | | |
| | TOTAL OWNER COSTS | | \$1,250,000 | \$1,250,000 | \$81.97 | \$81.97 |
| | TOTAL BUDGET w/BOND, DESIGN & OWNER COSTS | | \$11,469,386 | \$11,986,458 | \$752.09 | \$786.00 |

Please Note: Information herewith is only for the intended party and is not to be shared with any other parties without consent from Loughridge & Company, LLC

Colonial Behavioral Health Crisis Center Budget

Williamsburg, VA
Schedule of Values
7/17/2024



| ITEM | Range In Cost | |
|--|--------------------|--------------------|
| 1 COST OF WORK - BUILDING | | |
| Direct Building Construction Costs | 6,766,494 | 7,173,798 |
| Owner Related Building Construction Costs | | |
| Testing & Inspection Fees (Soils, Masonry, Steel, Envelope) | w/Owner Costs | w/Owner Costs |
| Building Permit Fees | w/Owner Costs | w/Owner Costs |
| 2 COST OF WORK - DEMOLITION & SITE | | |
| Direct Demolition/Abatement & Site Construction Costs | 1,411,179 | 1,481,738 |
| Utility Connection Fees | w/Site Costs above | w/Site Costs above |
| Land Disturbance, Stormwater Management & Insp. Fees | w/Site Costs above | w/Site Costs above |
| 3 GENERAL CONDITIONS/REQUIREMENTS | 480,000 | 480,000 |
| 4 DESIGN FEES, INCLUDING CONSTRUCTION ADMINISTRATION FEES | | |
| All Design Fees (Architectural, Engineering, Civil) | 785,000 | 785,000 |
| 5 INSURANCES | | |
| Builder's Risk Insurance | 6,337 | 6,687 |
| Liability Insurance (Contractor) | 34,631 | 36,542 |
| Business License Fee | 13,852 | 14,617 |
| Professional Liability Insurance (Design Team) | Included | Included |
| 6 CONTINGENCY | | |
| Design Contingency | not expected | not expected |
| Construction Contingency | 259,730 | 274,066 |
| 7 PROFIT/FEE | 346,307 | 365,421 |
| 8 BONDS | | |
| Payment & Performance Bond | 115,856 | 118,588 |
| TOTAL ESTIMATED DESIGN & CONSTRUCTION (HARD) COSTS | 10,219,386 | 10,736,458 |
| TOTAL OWNER COSTS | 1,250,000 | 1,250,000 |
| TOTAL ESTIMATED COST OF CBH CRISIS CENTER PROJECT | 11,469,386 | 11,986,458 |

| DIVISION 2 | Low | High |
|---|---------------------|---------------------|
| DEMOLITION | below | below |
| Demo Entire Building - Approx 20,000 SF | \$136,000.00 | \$142,800.00 |
| Hazardous Material Abatement | \$102,000.00 | \$107,100.00 |
| Asbestos, Lead, PCBs, Mercury, Refrigerants | | |
| | | |
| | | |
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| | | |
| | | |
| | | |
| TOTAL | \$238,000.00 | \$249,900.00 |

| DIVISION 3 | Low | High |
|-------------------------------|---------------------|---------------------|
| CIP CONCRETE | \$259,593.75 | \$272,573.44 |
| Porous Fill | above | above |
| Continous Footings | above | above |
| (4) 5x5 footings | above | above |
| 4" SOG | above | above |
| 6" SOG at Drive Thru | | |
| Dumpster pad 10 x 20 | \$8,000.00 | \$8,400.00 |
| Generator pad 8 x 14 | \$4,480.00 | \$4,704.00 |
| Small MEP Pads - Allow for 10 | \$5,000.00 | \$5,250.00 |
| | | |
| | | |
| | | |
| | | |
| TOTAL | \$277,073.75 | \$290,927.44 |

CONCRETE

| DIVISION 4 | Low | High |
|--|---------------------|---------------------|
| MASONRY | below | below |
| Foundation Wall | \$53,200.00 | \$55,860.00 |
| Veneer - Simulated Stone Wainscot | \$177,156.00 | \$186,013.80 |
| Veneer - Simulated Stone - Full Height areas | \$18,900.00 | \$19,845.00 |
| Veneer - Simulated Stone - Above Roof Line | \$34,720.00 | \$36,456.00 |
| Veneer - Simulated Stone - Entry Columns | \$10,080.00 | \$10,584.00 |
| Precast Sill/Band | \$11,400.00 | \$11,970.00 |
| Rigid Insulation | \$5,000.00 | \$5,250.00 |
| Dampproofing | \$9,500.00 | \$9,975.00 |
| TOTAL | \$319,956.00 | \$335,953.80 |

| DIVISION 5 | Low | High |
|--------------------------------------|---------------------|---------------------|
| STRUCTURAL STEEL | \$402,305.40 | \$422,420.67 |
| RTU Support & Openings | \$20,000.00 | \$21,000.00 |
| MISC | \$25,000.00 | \$26,250.00 |
| Lintels | above | above |
| Bollards - Sally Port & Dumpster Pad | above | above |
| Roof Access Ladder | \$10,000.00 | \$10,500.00 |
| | | |
| | | |
| | | |
| | | |
| TOTAL | \$457,305.40 | \$480,170.67 |

METALS

| DIVISION 6 - ROUGH CARPENTRY | Low | High |
|------------------------------|--------------------|--------------------|
| ROOF EDGE BLOCKING | \$19,870.94 | \$20,864.48 |
| LIFT | \$1,600.00 | \$1,680.00 |
| ROOF CURBS | \$12,096.00 | \$12,700.80 |
| | \$0.00 | \$0.00 |
| PLYWOOD BACKBOARDS | \$1,800.00 | \$1,890.00 |
| MISC Blocking | \$2,000.00 | \$2,100.00 |
| INTERIOR BLOCKING | see gwb | see gwb |
| | | |
| TOTAL | \$37,366.94 | \$39,235.28 |

ROUGH CARPENTRY

| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
|-------------------------------------|----|-------|-----|---|---|------|-------|--------|----------|----------|
| ROOF EDGE BLOCKING _ MATERIAL | 1 | 670.0 | 1.5 | | | 32.0 | 31 | boards | \$150.00 | \$4,711 |
| ROOF EDGE BLOCKING - LABOR | 2 | 670.0 | | | | | 1,340 | LF | \$4.00 | \$5,360 |
| TOP of WALL AT ROOF WELL _ MATERIAL | 2 | 670.0 | | | | | 1,340 | LF | \$6.00 | \$8,040 |
| TOP OF WALL AT ROOF WELL - LABOR | 1 | 440.0 | | | | | 440 | LF | \$4.00 | \$1,760 |
| ROOF CURBS - RTUS | 1 | 440.0 | | | | | 440 | LF | \$6.00 | \$2,640 |
| ROOF CURBS - RTUS LABOR | 4 | 46.0 | 4.0 | | | | 736 | LF | \$3.00 | \$2,208 |
| ROOF CURBS - EXHAUST FANS | 4 | 46.0 | 4.0 | | | | 736 | LF | \$5.00 | \$3,680 |
| ROOF CURBS - RFS LABOR | 12 | 12.0 | 4.0 | | | | 576 | LF | \$3.00 | \$1,728 |
| LIFT | 12 | 12.0 | 4.0 | | | | 576 | LF | \$5.00 | \$2,880 |
| | 2 | | | | | | 2 | WKS | \$800.00 | \$1,600 |
| | | | | | | | - | - | - | - |
| | | | | | | | - | - | - | - |
| | | | | | | | - | - | - | - |
| | | | | | | | - | - | - | - |
| | | | | | | | | | | \$34,607 |
| | | | | | | | | | | - |
| | | | | | | | | | | TOTAL |
| | | | | | | | | | | \$34,607 |

| DIVISION 6 - FINISH CARP & CASEWORK | Low | High |
|---|---------------------|---------------------|
| CASEWORK | below | below |
| Reception Desk/Admin | \$15,000.00 | \$15,750.00 |
| Staff Desk | \$10,000.00 | \$10,500.00 |
| Medication/Workroom - minimal | \$4,000.00 | \$4,200.00 |
| Lab | \$8,000.00 | \$8,400.00 |
| Clean Utility | \$5,000.00 | \$5,250.00 |
| Laundry | \$5,000.00 | \$5,250.00 |
| Open Bay Holding & Treatment Desks | \$20,000.00 | \$21,000.00 |
| Nurtrition | \$8,000.00 | \$8,400.00 |
| Breakroom | \$8,000.00 | \$8,400.00 |
| Exterior Finish Carpentry | | |
| Wood Trim Pieces at Overhang (Approx 125) | \$62,500.00 | \$65,625.00 |
| Decorative Wood Joists at Entry/Waiting Area (10) | \$30,000.00 | \$31,500.00 |
| TOTAL | \$175,500.00 | \$184,275.00 |

| DIVISION 7 AIR BARRIER/INSULATION | Low | High |
|-----------------------------------|--------------------|--------------------|
| EIFS REPAIR | \$72,494.10 | \$76,118.81 |
| wrap opening | w/above | w/above |
| batt insulation at top of walls | \$0.00 | \$0.00 |
| | | \$0.00 |
| | | |
| OTHER INSULATION | \$7,500.00 | \$7,875.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| TOTAL | \$79,994.10 | \$83,993.81 |

| INSULATION | | | | | | | | | | |
|--------------------------------------|----|--------|---|---|----|-----|-------|------|---------|----------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| AIR BARRIER/INSULATION BEHIND BRICK | 1 | 3440.0 | | | 5% | | 3,612 | SF | \$6.00 | \$21,672 |
| AIR BARRIER?INSULATION BEHIND SIDING | 1 | 6497.0 | | | 5% | | 6,822 | SF | \$6.00 | \$40,931 |
| WRAP OPENING | 1 | 785.0 | | | 5% | | 824 | LF | \$12.00 | \$9,891 |
| OPEN BAY STOREFRONT | 2 | 46.0 | | | | | 92 | LF | - | - |
| STANDARD SINGLE WINDOW | 21 | 18.0 | | | | | 378 | LF | - | - |
| STANDARD TRIPLE WINDOW | 6 | 30.0 | | | | | 180 | LF | - | - |
| SINGLE STOREFRONT DOORS | 4 | 17.0 | | | | | 68 | lf | - | - |
| ENTRY CURTAINWALL | 1 | 67.0 | | | | | 67 | - | - | - |
| | | | | | | | - | - | - | - |
| | | | | | | | - | - | - | - |
| | | | | | | | - | - | - | - |
| | | | | | | | | | | \$72,494 |
| | | | | | | | | | | - |
| | | | | | | | | | TOTAL | \$72,494 |

| DIVISION 7 ROOFING | Low | High |
|----------------------------------|---------------------|---------------------|
| ROOFING - MEMBRANE & SHEET METAL | \$390,852.00 | \$410,394.60 |
| Walk pads | \$5,000.00 | \$5,250.00 |
| Roof Hatch | \$3,000.00 | \$3,150.00 |
| | | |
| | | |
| | | |
| | | |
| | | |
| TOTAL | \$398,852.00 | \$418,794.60 |

| PANELS | | | | | | | | | | |
|-----------------------------|----|---------|---|-----|----|-----|--------|------|---------|-----------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| MEMBRANE ROOFING | 1 | 4300.0 | | | 5% | | 4,515 | SF | \$14.00 | \$63,210 |
| Parapet | 1 | 440.0 | | 5.0 | 5% | | 2,310 | SF | \$14.00 | \$32,340 |
| INSULATION | 1 | 4300.0 | | | 5% | | 4,515 | SF | \$3.00 | \$13,545 |
| SLOPED INSULATION | 1 | 4300.0 | | | 5% | | 4,515 | SF | \$1.00 | \$4,515 |
| Edge Trim | 1 | 440.0 | | | 5% | | 462 | LF | \$15.00 | \$6,930 |
| | | | | | 5% | | - | | - | - |
| STANDING SEAM METAL ROOFING | 1 | 11710.0 | | | 5% | | 12,296 | SF | \$20.00 | \$245,910 |
| Fascia/Eave/Edge Trim | 1 | 670.0 | | | 5% | | 704 | SF | \$20.00 | \$14,070 |
| Canopy Metal Edge | 1 | 100.0 | | | 5% | | 105 | LF | \$15.00 | \$1,575 |
| GUTTERS | 1 | 340.0 | | | 5% | | 357 | LF | \$15.00 | \$5,355 |
| DOWNSPOUTS | 18 | 12.0 | | | 5% | | 227 | LF | \$15.00 | \$3,402 |
| | | | | | | | - | | - | - |
| | | | | | | | - | | - | - |
| | | | | | | | - | | - | - |
| | | | | | | | - | | - | - |
| | | | | | | | | | | \$390,852 |
| | | | | | | | | | | - |
| | | | | | | | | | TOTAL | \$390,852 |

| DIVISION 7 SIDING | Low | High |
|------------------------------------|---------------------|---------------------|
| SIDING Geolam -\$55 to \$70/SF | \$409,311.00 | \$429,776.55 |
| GIRS/FRAMING FOR RAINSCREEN SYSTEM | \$47,753.00 | \$50,140.65 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| TOTAL | \$457,064.00 | \$479,917.20 |

| SIDING | | | | | | | | | | |
|--|---|--------|-----|---|----|-----|-------|------|---------|------------------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| SIDING ABOVE STONE - STD WALLS | 1 | 655.0 | 8.0 | | 5% | | 5,502 | SF | \$60.00 | \$330,120 |
| SIDING ABOVE ROOF LINE AT VESTIBULE | 1 | 63.0 | 9.0 | | 5% | | 595 | sf | \$60.00 | \$35,721 |
| SIDING ABOVE ROOF LINE AT ANGLED/PITCHED ROOFS | 1 | 138.0 | 5.0 | | 5% | | 725 | sf | \$60.00 | \$43,470 |
| GIRTS BEHIND PANELS | 1 | 6821.9 | | | | | 6,822 | sf | \$7.00 | \$47,753 |
| | | | | | | | - | | - | - |
| | | | | | | | - | | - | - |
| | | | | | | | - | | - | - |
| | | | | | | | | | | \$457,064 |
| | | | | | | | | | | - |
| | | | | | | | | | | SIDING \$457,064 |

| DIVISION 7 FIRESTOPPING & CAULKING | Low | High |
|---|--------------------|--------------------|
| CAULKING Control Joints & Sidewalk | \$19,062.50 | \$20,015.63 |
| Caulk Sidewalk | \$2,500.00 | \$2,750.00 |
| | | |
| | | |
| Electrical Room & IT Room | \$3,500.00 | \$3,675.00 |
| | | |
| | | |
| | | |
| TOTAL | \$25,062.50 | \$26,440.63 |

| DIVISION 8 - HM DOORS & FRAMES | Low | High |
|-----------------------------------|---------------------|---------------------|
| SINGLE DOORS | \$99,486.30 | \$104,460.62 |
| Add for Storefront Hardware | \$4,800.00 | \$5,040.00 |
| | | |
| | | |
| FRAMES LABOR | see gwb | see gwb |
| DOORS & HARDWARE LABOR | \$39,600.00 | \$41,580.00 |
| | | |
| AUTO OPERATORS | \$5,500.00 | \$5,775.00 |
| | | |
| | | |
| TOTAL | \$149,386.30 | \$156,855.62 |

| DIVISION 8 - OVERHEAD & SECTIONAL DOORS | Low | High |
|---|--------------------|--------------------|
| OVERHEAD COILING DOORS 10' x 12' Heavy Duty, Electrica Operation | \$12,600.00 | \$13,230.00 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| TOTAL | \$12,600.00 | \$13,230.00 |

| DIVISION 8 - STOREFRONT, CW, GLAZING | Low | High |
|---|---------------------|---------------------|
| SLIDING ENTRY DOORS | \$18,000.00 | \$18,900.00 |
| STOREFRONT & CURTAINWALL | \$119,020.00 | \$124,971.00 |
| GLAZING FOR DOORS (21) | \$5,250.00 | \$5,512.50 |
| Glass at interior frames (2) | \$1,000.00 | \$1,050.00 |
| | | |
| Mirrors | see TA | see TA |
| | | |
| | | |
| | | |
| TOTAL | | |
| | \$143,270.00 | \$150,433.50 |

STOREFRONT

| DIVISION 9 - GWB & ACT | Low | High |
|--|---------------------|---------------------|
| FRAMING & GWB | \$705,704.25 | \$740,989.46 |
| Frame Canopy | incl | incl |
| Ext GWB/DEFS at Canopy | incl | incl |
| Access Doors | \$7,500.00 | \$7,875.00 |
| Install Door Frames in GWB Walls | \$6,300.00 | \$6,615.00 |
| Install Doors & hardware | see Drs | see Drs |
| Interior Wood Blocking - casewor, boards, TA | \$25,000.00 | \$26,250.00 |
| Blocking - outside framing, prob not incl, but check | see carp | see carp |
| ACOUSTICAL CEILINGS | \$49,560.00 | \$52,038.00 |
| Add for Insulation | | |
| SUSPENDED WOOD CEILINGS - linear wood plank | \$4,000.00 | \$4,200.00 |
| Wood Slat Walls to match ceiling | \$8,100.00 | \$8,505.00 |
| ACOUSTIC STRETCHED FABRIC WALL & CEILING PANELS | \$36,000.00 | \$37,800.00 |
| TOTAL | \$842,164.25 | \$884,272.46 |

| DIVISION 9 - FLOORING | Kow | High |
|---|---------------------|---------------------|
| TILE - Floor Tile \$9/SF material, Wall Tile \$11/SF material | \$59,715.60 | \$62,701.38 |
| Epoxy Grout - throughout | included | included |
| CI Membrane - included b/c larger format tile | included | included |
| RESILIENT FLOORING - Sheet Vinyl Flooring, Incl Base | \$59,715.60 | \$62,701.38 |
| RESILIENT FLOORING - LVT | \$16,611.00 | \$17,441.55 |
| Moisture Testing at Resilient 9 tests | \$4,500.00 | \$4,725.00 |
| Skimming at Resilient | \$8,800.00 | \$9,240.00 |
| RESILIENT BASE- at LVT & Carpet | \$4,500.00 | \$4,725.00 |
| CARPET | \$13,440.00 | \$14,112.00 |
| | | |
| | | \$0.00 |
| TOTAL | \$167,282.20 | \$175,646.31 |

| TITLE | | | | | | | | | | |
|--|---|--------|-----|---|----|-----|-------|------|---------|----------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| FLOOR TILE \$9/Sf material | 1 | 950.0 | | | 5% | | 998 | SF | \$14.00 | \$13,965 |
| WALL TILE | 1 | 190.0 | 9.0 | | 5% | | 1,796 | SF | \$17.00 | \$30,524 |
| TILE BASE | 1 | 216.0 | | | 5% | | 227 | LF | \$17.00 | \$3,856 |
| EPOXY GROUT | 1 | 2793.0 | | | | | 2,793 | SF | \$3.00 | \$8,379 |
| CI Membrane - use b/c larger format tile | 1 | 950.0 | | | 5% | | 998 | SF | \$3.00 | \$2,993 |
| | | | | | | | - | | | - |
| | | | | | | | - | | | \$59,716 |
| | | | | | | | | TILE | | \$59,716 |

| SHEET VINYL | | | | | | | | | | |
|----------------------|---|--------|---|---|----|-----|-------|----------------------|--------|----------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| SHEET VINYL FLOORING | 1 | 6600.0 | | | 5% | | 6,930 | SF | \$8.00 | \$55,440 |
| SHEET VINYL BASE | 1 | 1720.0 | | | 5% | | 1,806 | LF | \$8.00 | \$14,448 |
| | | | | | | | - | | | - |
| | | | | | | | - | | | \$69,888 |
| | | | | | | | | SHEET VINYL FLOORING | | \$69,888 |

| RESILIENT | | | | | | | | | | |
|--------------|---|--------|---|---|----|-----|-------|-----------|--------|----------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| LVT FLOORING | 1 | 2260.0 | | | 5% | | 2,373 | SF | \$7.00 | \$16,611 |
| | | | | | | | - | | | - |
| | | | | | | | - | | | - |
| | | | | | | | - | | | \$16,611 |
| | | | | | | | | RESILIENT | | \$16,611 |

| CARPET | | | | | | | | | | |
|--------------------------------|---|--------|---|---|----|-----|-----|--------|---------|----------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| CARPET - \$27/SY material only | 1 | 3200.0 | | | 5% | 9.0 | 373 | SY | \$36.00 | \$13,440 |
| | | | | | | | - | | | - |
| | | | | | | | - | | | - |
| | | | | | | | - | | | \$13,440 |
| | | | | | | | | CARPET | | \$13,440 |

| DIVISION 9 - PAINTING | Low | High |
|--|--------------------|--------------------|
| PAINTING | \$40,600.06 | \$42,630.07 |
| Interior Painting - add for accent walls | incl | incl |
| | | |
| | | |
| | | |
| Exterior Painting | incl | incl |
| Bollards, Lintels, DEFS Ceilings | incl | incl |
| | | |
| | | |
| TOTAL | \$40,600.06 | \$42,630.07 |

PAINTING

| DIVISION 10 - SIGNAGE | Low | High |
|-------------------------------------|--------------------|--------------------|
| PLASTIC SIGNS - MATERIAL (84) doors | \$21,000.00 | \$22,050.00 |
| DIRECTORIES/OTHER SIGNAGE | \$7,500.00 | \$7,875.00 |
| PLAQUES - MATERIAL | \$1,000.00 | \$1,000.00 |
| PLASTIC SIGNS - LABOR | \$6,300.00 | \$6,615.00 |
| DIRECTORIES/OTHER SIGNAGE | \$3,000.00 | \$3,150.00 |
| PLAQUES - LABOR | mason | mason |
| MURALS - ALLOWANCE | \$25,000.00 | \$25,000.00 |
| TOTAL | \$63,800.00 | \$65,690.00 |

| DIVISION 10 - TP & TA | Low | High |
|-------------------------------|--------------------|--------------------|
| TOILET PARTITIONS - MATERIAL | n/a | n/a |
| TOILET PARTITIONS - LABOR | n/a | n/a |
| TOILET ACCESSORIES - MATERIAL | \$16,059.00 | \$16,861.95 |
| TOILET ACCESSORIES - LABOR | \$7,800.00 | \$8,190.00 |
| PT Dispensers - \$600 each | | |
| TOTAL | \$23,859.00 | \$25,051.95 |

| TOILET ACCESSORIES - MATERIAL | | | | | | | | | | |
|---|----|---|---|---|---|-----|-----|------|-------------------------------|----------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| Grab Bars | 36 | | | | | | 36 | EA | \$150.00 | \$5,400 |
| Shower Grab Bars | 5 | | | | | | 5 | EA | \$150.00 | \$750 |
| PT Dispenser - Semi Recessed, Staff & Waiting Toilets | 7 | | | | | | 7 | EA | \$600.00 | \$4,200 |
| TP Dispenser | 12 | | | | | | 12 | EA | \$100.00 | \$1,200 |
| Napkin Disposal | 12 | | | | | | 12 | EA | \$100.00 | \$1,200 |
| 18x30 Mirror | 12 | | | | | | 12 | EA | \$200.00 | \$2,400 |
| | | | | | | | - | | | - |
| | | | | | | | - | | | - |
| | | | | | | | | | | \$15,150 |
| | | | | | | | | | 6.00% | \$909 |
| | | | | | | | | | TOILET ACCESSORIES - MATERIAL | |
| | | | | | | | | | | \$16,059 |

| TOILET ACCESSORIES - Labor | | | | | | | | | | |
|---|----|---|---|---|---|-----|-----|------|--------------------------|---------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| Grab Bars | 36 | | | | | | 36 | EA | \$100.00 | \$3,600 |
| Shower Grab Bars | 5 | | | | | | 5 | EA | \$100.00 | \$500 |
| PT Dispenser - Semi Recessed, Staff & Waiting Toilets | 7 | | | | | | 7 | EA | \$100.00 | \$700 |
| TP Dispenser | 12 | | | | | | 12 | EA | \$50.00 | \$600 |
| Napkin Disposal | 12 | | | | | | 12 | EA | \$100.00 | \$1,200 |
| 18x30 Mirror | 12 | | | | | | 12 | EA | \$100.00 | \$1,200 |
| | | | | | | | - | | | - |
| | | | | | | | - | | | - |
| | | | | | | | | | | \$7,800 |
| | | | | | | | | | | - |
| | | | | | | | | | TOILET ACCESSORIES LABOR | |
| | | | | | | | | | | \$7,800 |

| DIVISION 10 - FE & FEC | Low | High |
|------------------------|-------------------|-------------------|
| FE & FEC - MATERIAL | \$1,298.50 | \$1,363.43 |
| FE & FEC - LABOR | \$475.00 | \$498.75 |
| TOTAL | \$1,773.50 | \$1,862.18 |

| FE & FEC - MATERIAL | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|-----|-----|----------|-------------------|---------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| RECESSED CABINET | 0 | | | | | - | EA | \$180.00 | - | |
| FIRE RATED CABINET | 0 | | | | | - | EA | \$250.00 | - | |
| SEMIRECESSED CABINET | 4 | | | | | 4 | EA | \$200.00 | \$800 | |
| SURFACE MOUNTED CABINET | 0 | | | | | - | EA | \$150.00 | - | |
| BRACKET MOUNTED - add 1 for elec rm | 1 | | | | | 1 | EA | \$25.00 | \$25 | |
| FIRE EXTINGUISHERS | 5 | | | | | 5 | EA | \$80.00 | \$400 | |
| | | | | | | - | | - | - | |
| | | | | | | - | | - | - | |
| | | | | | | | | | | \$1,225 |
| | | | | | | | | | 6.00% | \$74 |
| | | | | | | | | | FE & FEC MATERIAL | \$1,299 |

| SIGNAGE - LABOR | | | | | | | | | | |
|-------------------------|---|---|---|---|---|-----|-----|----------|----------------|-------|
| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| RECESSED CABINET | 0 | | | | | - | EA | \$100.00 | - | |
| FIRE RATED CABINET | 0 | | | | | - | EA | \$100.00 | - | |
| SEMIRECESSED CABINET | 4 | | | | | 4 | EA | \$100.00 | \$400 | |
| SURFACE MOUNTED CABINET | 0 | | | | | - | EA | \$100.00 | - | |
| BRACKET MOUNTED | 1 | | | | | 1 | EA | \$25.00 | \$25 | |
| FIRE EXTINGUISHERS | 5 | | | | | 5 | EA | \$10.00 | \$50 | |
| | | | | | | - | | - | - | |
| | | | | | | - | | - | - | |
| | | | | | | | | | | \$475 |
| | | | | | | | | | FE & FEC LABOR | \$475 |
| | | | | | | | | | | - |

| DIVISION 10 - LOCKERS & SHELVING | Low | High |
|----------------------------------|--------------------|--------------------|
| LOCKERS - MATERIAL | \$7,632.00 | \$8,013.60 |
| LOCKERS - LABOR | \$1,800.00 | \$1,890.00 |
| | | |
| SHELVING - MATERIAL | \$31,800.00 | \$33,390.00 |
| SHELVING - LABOR | \$3,000.00 | \$3,150.00 |
| | | |
| | | |
| | | |
| TOTAL | \$44,232.00 | \$46,443.60 |

LOCKERS - MATERIAL

| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
|----------------|----|---|---|---|---|-----|-----|----------|--------------------|---------|
| LOCKERS | 24 | | | | | 24 | EA | \$300.00 | - | \$7,200 |
| LOCKER BENCHES | 0 | | | | | - | EA | \$200.00 | - | |
| GEAR LOCKERS | 0 | | | | | - | EA | \$450.00 | - | |
| | | | | | | - | | - | - | |
| | | | | | | - | | - | - | |
| | | | | | | | | | | \$7,200 |
| | | | | | | | | | 6.00% | \$432 |
| | | | | | | | | | LOCKERS - MATERIAL | \$7,632 |

LOCKERS - LABOR

| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
|----------------|----|---|---|---|---|-----|-----|---------|---------------|---------|
| LOCKERS | 24 | | | | | 24 | EA | \$75.00 | - | \$1,800 |
| LOCKER BENCHES | 0 | | | | | - | EA | \$75.00 | - | |
| GEAR LOCKERS | 0 | | | | | - | EA | \$75.00 | - | |
| | | | | | | - | | - | - | |
| | | | | | | - | | - | - | |
| | | | | | | | | | | \$1,800 |
| | | | | | | | | | | - |
| | | | | | | | | | LOCKERS LABOR | \$1,800 |

SHELVING - MATERIAL

| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
|--------------------------|----|---|---|---|---|-----|-----|------------|-------------------|----------|
| 36" to 48" WIDE SHELVING | 20 | | | | | 20 | EA | \$1,500.00 | - | \$30,000 |
| | | | | | | - | | - | - | |
| | | | | | | - | | - | - | |
| | | | | | | - | | - | - | |
| | | | | | | | | | | \$30,000 |
| | | | | | | | | | 6.00% | \$1,800 |
| | | | | | | | | | SHELVING MATERIAL | \$31,800 |

SHELVING - LABOR

| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
|--------------------------|----|---|---|---|---|-----|-----|----------|----------------|---------|
| 36" to 48" WIDE SHELVING | 20 | | | | | 20 | EA | \$150.00 | - | \$3,000 |
| | | | | | | - | | - | - | |
| | | | | | | - | | - | - | |
| | | | | | | - | | - | - | |
| | | | | | | | | | | \$3,000 |
| | | | | | | | | | | - |
| | | | | | | | | | SHELVING LABOR | \$3,000 |

| DIVISION 10 - WALL & DOOR PROTECTION | Low | High |
|---|---------------------|---------------------|
| WALL PROTECTION - MATERIAL | \$117,257.20 | \$123,120.06 |
| | | |
| | | |
| WALL PROTECTION - LABOR | \$38,194.40 | \$40,104.12 |
| | | \$0.00 |
| TOTAL | \$155,451.60 | \$163,224.18 |

| DIVISION 10 - CANOPIES | Low | High |
|---------------------------|-------------------|-------------------|
| WALL HUNG SMALL CANOPIES | \$3,375.00 | \$3,543.75 |
| Pirce more since only one | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| TOTAL | \$3,375.00 | \$3,543.75 |

| DIVISION 11 - APPLIANCES | Low | High |
|---------------------------|-------------------|-------------------|
| APPLIANCES | below | below |
| RESIDENTIAL FUL SIZE FRIG | \$2,000.00 | \$2,100.00 |
| WASHER | \$3,000.00 | \$3,150.00 |
| DRYER | \$3,000.00 | \$3,150.00 |
| MICROWAVE | \$200.00 | \$210.00 |
| | | |
| | | |
| | | |
| TOTAL | \$8,200.00 | \$8,610.00 |

| DIVISION 11 - INSTALL OWNER EQUIPMENT | Low | High |
|---------------------------------------|-------------------|-------------------|
| ALLOWANCE - INSTALL OWNER EQUIPMENT | \$4,800.00 | \$5,040.00 |
| 3 MEN FOR A WEEK | above | above |
| | \$0.00 | |
| | \$0.00 | |
| | \$0.00 | |
| | \$0.00 | |
| | \$0.00 | |
| | \$0.00 | |
| TOTAL | \$4,800.00 | \$5,040.00 |

| DIVISION 12 - WINDOW TREATMENTS | Low | High |
|---|--------------------|--------------------|
| ROLLER SHADES | above | above |
| Dual Shades at Bedrooms (8) | \$2,800.00 | \$2,940.00 |
| 3% Shades at Offices, Conference Room (24) | \$6,000.00 | \$6,300.00 |
| Motorized Shades at High Windows (2) loc (4) each | \$16,000.00 | \$16,800.00 |
| Control Wiring | \$2,000.00 | \$2,100.00 |
| Shop Drawings | \$1,000.00 | \$1,050.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| TOTAL | \$27,800.00 | \$29,190.00 |

| DIVISION 21 SPRINKLER | LCO Budget | LCO Budget |
|--|--------------------|---------------------|
| SPRINKLER | \$61,000.00 | \$64,050.00 |
| Dry heads at Front entry & Sally port 850 SF | \$5,100.00 | \$5,355.00 |
| Ligature Resistant Heads at CITAC, CRC, CSU Areas | \$8,000.00 | \$8,400.00 |
| Concealed Recessed Heads elsewhere, Upright at no clgs | included | included |
| COORDINATION DRAWINGS - Using REVIT/NAVISWORKS | \$10,000.00 | \$10,500.00 |
| Add for Pump on High End | not incl | \$35,000.00 |
| | | |
| | | |
| | | |
| TOTAL | \$84,100.00 | \$123,305.00 |

| DIVISION 22 & 23 PLUMBING & MECHANICAL | Low | High |
|--|-----------------------|-----------------------|
| PLUMBING | \$422,050.00 | \$443,152.50 |
| FOUNDATION DRAINAGE - ALLOWANCE | \$33,500.00 | \$35,175.00 |
| GAS PIPING FOR RTUS | W/ABOVE | W/ABOVE |
| Add for Domestic Water Pump on High end | not included | \$35,000.00 |
| COORDINATION DRAWINGS - Using REVIT/NAVISWORKS | \$10,000.00 | \$10,500.00 |
| | | |
| MECHANICAL - RTUs, VAVs, Efs | \$838,750.00 | \$880,687.50 |
| COORDINATION DRAWINGS - Using REVIT/NAVISWORKS | \$10,000.00 | \$10,500.00 |
| DEDUCATED HVAC - 4 TON UNIT | \$24,000.00 | \$25,200.00 |
| CONTROLS | \$91,500.00 | \$96,075.00 |
| | | |
| TABS | \$19,062.50 | \$20,015.63 |
| | | |
| Acoustical Sealant & Firestopping | \$25,000.00 | \$26,250.00 |
| | | |
| | | |
| TOTAL | \$1,473,862.50 | \$1,582,555.63 |

PLUMBING

| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
|---|----|-------|---|---|---|-----|-----|------|------------|-----------|
| FIXTURES - Add for Ligature Resistant | 39 | | | | | | 39 | EA | \$5,000.00 | \$195,000 |
| ADD for SHOWER PANS/ENCL & FOUNTAIN w/BOTTLE FILL | 6 | | | | | | 6 | EA | \$2,500.00 | \$15,000 |
| HOOK UP (FOOD SERVICE) EQUIPMENT | 3 | | | | | | 3 | EA | \$1,500.00 | \$4,500 |
| WALL HYDRANTS - every 100 ft | 7 | | | | | | 7 | EA | \$1,800.00 | \$12,600 |
| ROOFTOP HYDRANTS (2) | 2 | | | | | | 2 | EA | \$1,500.00 | \$3,000 |
| (3) 150 CFH TANKLESS WATER HEATERS plus valves | 3 | | | | | | 3 | EA | \$8,000.00 | \$24,000 |
| (2) GRUNDFOS Magna 3 RECIRCULATION PUMPS | 2 | | | | | | 2 | EA | \$3,500.00 | \$7,000 |
| ISOLATION VLVES - Every Fixture & Every Branch | 53 | | | | | | 53 | EA | \$750.00 | \$39,750 |
| ROOF DRAINS at FLAT ROOF Area (6) & (6) overflow | 12 | | | | | | 12 | EA | \$2,500.00 | \$30,000 |
| ROOF & OVERFLOW DRAIN PIPING | 12 | 29.0 | | | | | 348 | LF | \$50.00 | \$17,400 |
| FLOOR DRAINS - @ PATIENT TOILETS, JAN CLOSET, MECH RI | 1 | 7.0 | | | | | 7 | EA | \$2,500.00 | \$17,500 |
| UNDERSLAB PIPING | 1 | 430.0 | | | | | 430 | LF | \$70.00 | \$30,100 |
| DRAIN BOXES at WASHER | 1 | | | | | | 1 | EA | \$2,500.00 | \$2,500 |
| IRRIGATION BFP | 1 | | | | | | 1 | ea | \$4,500.00 | \$4,500 |
| TRENCH DRAIN AT SALLY PORT | 1 | 20.0 | | | | | 20 | LF | \$250.00 | \$5,000 |
| GAS PIPING FROM ENTRANC ETO RTUS & UP | 1 | 280.0 | | | | | 280 | LF | \$15.00 | \$4,200 |
| GAS VALVES/REGULATORS, ETC. | 4 | | | | | | 4 | ea | \$2,500.00 | \$10,000 |
| | | | | | | | - | | - | - |
| | | | | | | | - | | - | - |
| | | | | | | | | | | \$422,050 |
| | | | | | | | | | | - |
| | | | | | | | | | PLUMBING | \$422,050 |

MECHANICAL

| DESCRIPTION | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
|--------------|---|---------|---|---|---|-----|--------|------|------------|-----------|
| HVAC | 1 | 15250.0 | | | | | 15,250 | SF | \$55.00 | \$838,750 |
| RTUS | | | | | | | | | | - |
| BAS CONTROLS | 1 | 15250.0 | | | | | 15,250 | EA | \$6.00 | \$91,500 |
| TABS | 1 | 15250.0 | | | | | 15,250 | SF | \$1.25 | \$19,063 |
| | | | | | | | - | | - | - |
| | | | | | | | - | | - | - |
| | | | | | | | - | | - | - |
| | | | | | | | | | | \$949,313 |
| | | | | | | | | | | - |
| | | | | | | | | | MECHANICAL | \$949,313 |

| DIVISION 26 - ELECTRICAL & FIRE ALARM | Low | High |
|--|-----------------------|-----------------------|
| ELECTRICAL | | |
| Gear | \$610,000.00 | \$640,500.00 |
| Generator, ATS, MTS - Based on 300 KW now | \$100,000.00 | \$105,000.00 |
| COORDINATION DRAWINGS - Using REVIT/NAVISWORKS | \$150,000.00 | \$157,500.00 |
| Lighting - dd for Special Lighting, Controls | \$10,000.00 | \$10,500.00 |
| Site Lighting | \$152,500.00 | \$160,125.00 |
| Concrete Duct bank | \$59,500.00 | \$62,475.00 |
| | \$18,500.00 | \$19,425.00 |
| Temporary Lighting | | |
| Temporary Power | \$7,625.00 | \$8,006.25 |
| | \$15,250.00 | \$16,012.50 |
| Lightning Protection | | |
| | \$15,250.00 | \$16,012.50 |
| Cata/Comm - Rough in | | |
| Nuse Call - Rough IN | \$26,687.50 | \$28,021.88 |
| Security - Rough IN | \$19,062.50 | \$20,015.63 |
| White Noise System - Patent Room Areas | \$19,062.50 | \$20,015.63 |
| | \$6,250.00 | \$6,562.50 |
| Fire Alarm | | |
| | \$38,125.00 | \$40,031.25 |
| | | |
| | | |
| TOTAL | \$1,247,812.50 | \$1,310,203.13 |

| SITEWORK | Low | High |
|---|-----------------------|-----------------------|
| SURVEY, incl As Builts | \$25,000.00 | \$26,250.00 |
| Land Disturanc & SWM & Insp Fees | \$4,715.00 | \$4,950.75 |
| CLEARING & SITE DEMOLITION | \$48,825.00 | \$51,266.25 |
| Demo Asphalt & Sidewalk | above | above |
| EROSION & SEDIMENT CONTROLS | \$25,813.10 | \$27,103.76 |
| Permament Seeding | \$6,120.00 | \$6,426.00 |
| EARTHWORK | \$152,590.96 | \$160,220.51 |
| STONE FOR ASPHALT | \$47,292.00 | \$49,656.60 |
| APHALT PAVING | \$105,133.47 | \$110,390.14 |
| Traffic Control | \$5,000.00 | \$5,250.00 |
| SITE CONCRETE | \$13,673.33 | \$14,357.00 |
| Concrete stoop at new door | above | above |
| GENERATOR PAD | see bldg | see bldg |
| PAVEMENT MARKINGS & SIGNAGE | \$7,950.00 | \$8,347.50 |
| SITE WATER | \$126,750.00 | \$133,087.50 |
| SANITARY SEWER | \$207,337.50 | \$217,704.38 |
| Utility Connection Fees | \$83,025.00 | \$87,176.25 |
| STORM | \$207,337.50 | \$217,704.38 |
| Connect roof drains/gutters to storm | | |
| FOUNDATION DRAINAGE ALLOWANCE | see plumbing | see plumbing |
| DOWNSPOUT BOOTS | \$11,700.00 | \$12,285.00 |
| TOTAL | \$1,078,262.86 | \$1,132,176.00 |

SITE WATER

| DESCRIPTION | 1/0 | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
|--------------------------------|-----|---|--------|---|---|----|-----|-------|------|------------|----------------------|
| 8" WATER LINE | 1 | 1 | 1400.0 | | | 5% | | 1,470 | LF | \$75.00 | \$110,250 |
| FIRE HYDRANT ASSEMBLY | 1 | 1 | | | | | | 1 | EA | \$5,500.00 | \$5,500 |
| Fire Department Connection | 1 | 1 | | | | | | 1 | EA | \$3,500.00 | \$3,500 |
| Single Detector Check Assembly | 1 | 1 | | | | | | 1 | | \$4,000.00 | \$4,000 |
| Post Indictor Valve | 1 | 1 | | | | | | 1 | | \$3,500.00 | \$3,500 |
| | | | | | | | | - | | - | - |
| | | | | | | | | - | | - | - |
| | | | | | | | | - | | - | - |
| | | | | | | | | | | | \$126,750 |
| | | | | | | | | | | | - |
| | | | | | | | | | | | SITE WATER \$126,750 |

| SEWER | | | | | | | | | | | |
|-----------------------|-----|---|--------|---|---|---|-----|-------|------|-------------|--------------------------|
| DESCRIPTION | 1/0 | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| 2" PVC FORCE MAIN | 1 | 1 | 1450.0 | | | | | 1,450 | LF | \$60.00 | \$87,000 |
| SANITARY GRINDER PUMP | 1 | | | | | | | 1 | | \$20,000.00 | \$20,000 |
| | | | | | | | | - | | - | - |
| | | | | | | | | - | | - | - |
| | | | | | | | | - | | - | - |
| | | | | | | | | - | | - | - |
| | | | | | | | | | | | \$107,000 |
| | | | | | | | | | | | - |
| | | | | | | | | | | | SANITARY SEWER \$107,000 |

| STORM | | | | | | | | | | | |
|---------------------------------------|-----|---|-------|---|---|----|-----|-----|------|------------|-----------------|
| DESCRIPTION | 1/0 | # | L | W | D | % | DIV | QTY | UNIT | UNIT | TOTAL |
| 6" DI STORM PIPE - Building & to Pond | 1 | 1 | 790.0 | | | 5% | | 830 | LF | \$75.00 | \$62,213 |
| 15" rcp CULVERT | 1 | 1 | 450.0 | | | 5% | | 473 | | \$250.00 | \$118,125 |
| STRUCTURE | 1 | 9 | | | | | | 9 | ea | \$3,000.00 | \$27,000 |
| | | | | | | | | - | | - | - |
| | | | | | | | | - | | - | - |
| | | | | | | | | - | | - | - |
| | | | | | | | | | | | \$207,338 |
| | | | | | | | | | | | - |
| | | | | | | | | | | | STORM \$207,338 |

| DIVISION 33 FENCING | Low | High |
|---|--------------------|--------------------|
| FENCING Secure Fencing at Outdoor Area | \$8,475.00 | \$8,898.75 |
| Secure and Decorative | above | above |
| | | |
| | | |
| Dumpster Enclosure? | \$15,000.00 | \$15,750.00 |
| | \$0.00 | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | |
| TOTAL | \$23,475.00 | \$24,648.75 |

| DIVISION 33 LANDSCAPING | Low | High |
|--------------------------------|--------------------|--------------------|
| LANDSCAPING | \$25,000.00 | \$26,250.00 |
| SODDING | \$18,400.00 | \$19,320.00 |
| Lawn Maintenance | \$1,600.00 | \$1,680.00 |
| trees (15) | | |
| Shrubs (100) | | |
| Groundcover (250) | | |
| Nulch, Etc | | |
| | | |
| IRRIGATION | \$25,000.00 | \$26,250.00 |
| | | |
| TOTAL | \$70,000.00 | \$73,500.00 |

| DIVISION 33 TERMITE CONTROL | Low | High |
|-----------------------------|-------------------|-------------------|
| TERMITE CONTROL | \$1,441.13 | \$1,513.18 |
| Based on 15,250 SF | \$0.00 | \$0.00 |
| | | |
| | | |
| | | |
| TOTAL | \$1,441.13 | \$1,513.18 |

4. 3. 2. Anticipated Schedule for Funding



| Month/Year | Design Costs | Construction Costs |
|--------------------------|----------------|--------------------|
| Aug-24 | \$255, 000. 00 | \$0. 00 |
| Sep-24 | \$230, 000. 00 | \$0. 00 |
| Oct-24 | \$200, 000. 00 | \$0. 00 |
| Nov-24 | \$100, 000. 00 | \$0. 00 |
| Dec-24 PERMIT SUBMISSION | | |
| Jan-25 PERMIT SUBMISSION | | |
| Feb-25 PERMIT SUBMISSION | | |
| Mar-25 PERMIT SUBMISSION | | |
| Apr-25 PERMIT SUBMISSION | | |
| May-25 PERMIT SUBMISSION | | |
| Jun-25 PERMIT ISSUED | | |
| Jul-25 | \$0. 00 | \$796, 116. 64 |
| Aug-25 | \$0. 00 | \$696, 602. 06 |
| Sep-25 | \$0. 00 | \$796, 116. 64 |
| Oct-25 | \$0. 00 | \$1, 094, 660. 38 |
| Nov-25 | \$0. 00 | \$1, 194, 174. 96 |
| Dec-25 | \$0. 00 | \$1, 094, 660. 38 |
| Jan-26 | \$0. 00 | \$895, 631. 22 |
| Feb-26 | \$0. 00 | \$895, 631. 22 |
| Mar-26 | \$0. 00 | \$895, 631. 22 |
| Apr-26 | \$0. 00 | \$796, 116. 64 |
| May-26 | \$0. 00 | \$597, 087. 48 |
| Jun-26 | \$0. 00 | \$199, 029. 16 |



4.3 Project Financing

4.3.1. Please see attached cost estimate with full breakdown. The methodology used to create this estimate was a full take off of each individual CSI division. From that take off, we then create a range on what the cost may be from low to high. This ensures that we are within a range to design the job and the owner will be covered from a cost perspective.

4.3.2. Please see attached breakout of funding needed for the project based on monthly projections for design costs and construction costs.

4.3.4. The risk factors we see on this specific project is the availability of electrical gear, generator, and mechanical units. Lead times on these items has been approaching a year which would affect the overall schedule on delivering the building. In order to mitigate this risk, we would take the following steps:

- The design team would focus on the sizing of these three items in the beginning. Assumptions can be made for the job that would allow us to size the gear, generator, and mechanical units appropriately to release them.
- We would then order these items directly through the vendor. By doing this, we would have direct contact with the entity providing the material and ensure we are up to date on delivery time frames.
- If the item is available prior to being able to put it in place on site, we would store the material on site in a secure location. This way the owner is at a peace of mind that the material is here and available when needed.

4.3.5. We anticipate a commitment from CBH throughout the entire job but in different fashions as outlined below:

- Design – as we design the job, we want to keep CBH in the loop on what is occurring. In the beginning, the design team would want to know any specific items we want to include. As the drawings develop, the owner can review them and advise if things work or need to be adjusted. The major commitment we look for is once we get close to a complete set of documents, we would want to do a “page turn” where we go through each drawing and ensure it is meeting the owner’s requests.
- Construction – the job will have bi-weekly progress meetings where everyone will update the owner on what is occurring. We would ask for the owner to have representatives attend so that our progress is effectively communicated.
- Completion – as the job is completed, the commitment from the owner would be to walk the space and ensure it has matched the documents. From there, we would obtain a CO for the job and the owner can move in.

Outside of CBH’s participation, we would have commitment from James City County to perform inspections on the project, which is a typical commitment from a County.

4.3.8. We would ensure that any tax-exempt financing is achieved specifically from the goals set by CBH.

Section 4.4 Project Benefit and Compatibility

- Benefits of and Anticipated for Supporting the Project
- Plans to Inform the Public
- Compatibility of the Project
- SWaM Participation

4.4 Project Benefit and Compatibility

4.4.1 Benefits from this Project:

The new Crisis Services Center will be the first building in CBH's new campus and can set the tone for future buildings to come. The building will be designed to be friendly and welcoming, in line with the stated design preferences of CBH. The building will be seen as a place of healing. Additionally, the planned orientation and site planning for the building will assist in distinguishing CBH from the existing nearby Eastern State facilities.

4.4.2 Community Support or Opposition:

In recent years the community has become much more aware of the need for better mental health services. Support for these services has grown significantly as a result. That said, there remains a "not in my back yard" stigma that can lead to opposition. The site chosen by CBH is near existing mental health facilities and not directly adjacent to residential development. Also, the project is proposed to be designed with an inviting non-institutional look. Both of these address the concerns that typically lead to community opposition.

4.4.3 Information Strategy: The Project Team will assist CBH to communicate the vision of this new facility to the general public, the business community and governmental agencies through meetings and presentations as needed.

4.4.4 Benefits to CBH, its clients, customers and their families, the community, region and state:

The community will benefit greatly from the Crisis Services Center, especially as the design of the building reflects the program of providing an alternative to hospitalization. By avoiding the resulting additional trauma that patients incur from hospitalization, healing can occur more quickly, benefitting the patients, their families and the community.

4.4.5 Compatibility with local comprehensive plans and capital improvement budget and government spending plan:

The project will be compatible with the local comprehensive plan by meeting the permitted use of its current zoning. The site is Zoned PL Public Lands and "Non-profit medical clinics or offices under 30,000 square feet" is a permitted use by-right. The provision of CRC and CSU facilities is a key component of the commonwealth's capital improvement spending to address the mental health crisis and its resulting costs, both personal and economic.

4.4.6 SWaM Participation:

The design team is comprised of the following SWaM enterprises:

1. Loughridge Construction: 688391
2. Worley Associates Architects: Virginia certified Small Business, DSBSD Certificate #10926
3. AES: Virginia certified Small Business, DSBSD Certificate #676492
4. Dunbar: Virginia certified Small Business, DSBSD Certificate #6854
5. New Ridge:
6. KSA Interiors: Virginia certified Woman Owned Small Business, DSBSD Certificate #7149

Attachment F: Proposal Title Page

Attachment G: Proposal Submission Checklist

Attachment H: Proposal Signature Sheet

Attachment I: Company Certifications

Attachment J: Authority to Transact Business in Virginia

Attachment K: Proprietary Information

Attachment L: Reference Page

Vendor Confidentiality Agreement

Terms & Conditions pages 11-14, initialed

W9 Tax Form

Proof of Insurance/Certificates of Insurance

Licenses or Certifications Held

Signed Addenda

ATTACHMENT F – PROPOSAL TITLE PAGE

By signing this form with an original signature, and returning the signed solicitation document with your response in accordance with this solicitation's submittal requirements, you agree that original signatures transmitted and received via facsimile, email or other electronic transmission of a scanned document (e.g., PDF or similar format) are true and valid signatures for all purposes hereunder and shall bind the parties to the same extent as that of an original signature. Any such electronic transmission shall constitute the final agreement of the parties and conclusive proof of such agreement. Any such electronic counterpart shall be of sufficient quality to be legible either electronically or when printed as hardcopy. CBH shall determine legibility and acceptability for public record purposes. An Agreement or other communications resultant from this solicitation may be executed in one or more counterparts, each of which shall for all purposes be deemed to be an original and all of which shall constitute the same instrument.



July 17, 2024

Signature Of Authorized Company Representative

Date

Wadsworth Bugg, IV

Vice President

Name – Print

Title

Loughridge & Company LLC

(804)353-7373

Company Name – Print

Telephone Number

5001 West Leigh Street, Richmond, Virginia 23230

Address

wbugg@loughridgeconstruction.com

(804)353-7410

Email Address

Fax Number

ATTACHMENT G – PROPOSAL SUBMISSION CHECKLIST

The following shall be returned with your proposal as outlined in 6.0. Failure to do so may be cause for rejection of the proposal as non-responsive. It is the responsibility of the Contractor to ensure that they have received all addenda.

| ITEM: | INCLUDED: (X) |
|---|---------------|
| 1. Attachment F. Proposal Title Page | X |
| 2. Attachment G. Proposal Submission Checklist | X |
| 3. Attachment H. Proposal Signature Sheet | X |
| 4. Attachment I. Company Certifications | X |
| 5. Attachment J. Authority to Transact Business | X |
| 6. Attachment K. Proprietary Information | X |
| 7. Attachment L. Reference Page | X |
| 8. Vendor Confidentiality Agreement | X |
| 9. Initialed bottom of T&C pages 11-14. | X |
| 10. Certificates of Insurance | X |
| 11. Financial Information (Including W9) | X |

Loughridge & Company LLC (804)353-7373
Company Name – Print Telephone Number

5001 West Leigh Street, Richmond, Virginia 23230
Address

wbugg@loughridgeconstruction.com (804)353-7410
Email Address Fax Number

Wadsworth Bugg, IV Vice President
Name – Print Title

Wadsworth Bugg, IV July 17, 2024
Signature Of Authorized Company Representative Date

ATTACHMENT H – PROPOSAL SIGNATURE SHEET

TYPE OF BUSINESS: (Please check all applicable classifications.) If your classification is certified by the Virginia Department of Minority Business Enterprise, provide your certification number: 688391. For certification assistance, please visit: <https://www.sbsd.virginia.gov/>.

Large

Small business – An independently owned and operated business which, together with affiliates, has 250 or fewer employees or average annual gross receipts of \$10 million or less averaged over the previous three years.

Women-owned business – A business concern that is at least 51% owned by one or more women who are U. S. citizens or legal resident aliens, or in the case of a corporation, partnership, or limited liability company or other entity, at least 51% of the equity ownership interest is owned by one or more women who are citizens of the United States or non-citizens who are in full compliance with the United States immigration law, and both the management and daily business operations are controlled by one or more women who are U. S. citizens or legal resident aliens.

Minority-owned business – A business concern that is at least 51% owned by one or more minority individuals (see Section 2.2-1401, Code of Virginia) or in the case of a corporation, partnership, or limited liability company or other entity, at least 51% of the equity ownership interest in the corporation, partnership, or limited liability company or other entity is owned by one or more minority individuals and both the management and daily business operations are controlled by one or more minority individuals.

In Compliance With This Request For Proposals And To All The Conditions Imposed Herein, The Undersigned Offers And Agrees To Furnish The Goods/Services In Accordance With This RFP and all Attachments Or As Mutually Agreed Upon By Subsequent Negotiation.

Company Name: Loughridge & Company LLC

FIN/SSN: 56-2541273 Date: July 17, 2024

Authorized Agent (TYPED): Wadsworth Bugg, IV, Vice President

Signature: Wadsworth Bugg

Address: Loughridge & Company LLC, 5001 West Leigh Street

c/s/z: Richmond, VA 23230 E-mail address: wbugg@loughridgeconstruction.com

Telephone Number: (804)353-7373 Extension: 306 FAX Number: (804)353-7410

NOTE: Colonial Behavioral Health does not discriminate against faith-based organizations in accordance with the *Code of Virginia, §2.2-4343.1* or against a bidder because of race, religion, color, sex, national origin, disability, or any other basis prohibited by state law relating to discrimination in employment.

COMMONWEALTH OF VIRGINIA



DEPARTMENT OF SMALL BUSINESS & SUPPLIER DIVERSITY

101 N. 14th Street, 11th Floor
Richmond, VA 23219

LOUGHRIDGE & COMPANY LLC

is a certified Small
Business meeting all the requirements set forth under the Code of Virginia Section 2.2-16.1 et seq.
and Administrative Code 7VAC 13-20 et seq.

Certification Number: 688391
Valid Through: Jan 22, 2025

Accordingly Certified

[Handwritten signature]
Tracey G. Wiley, Director



ATTACHMENT I – COMPANY CERTIFICATIONS

This RFP is subject to the provisions of 2.2-3100 et seq. of the Virginia, the Virginia State and Local Government Conflict of Interest Act, and Sections 2.2-4300 et seq. of the Code, the Virginia Public Procurement Act (VPPA).

By my signature on this form, I certify on behalf of the Contractor that I am not aware of any information bearing on the existence of any potential conflicts of interest or violation of ethics in public contracting provisions of the VPPA, Virginia Code 2.2-4367 through 2.2-4377.

I further certify that this proposal is made without prior understanding, agreement, or connection with any corporation, team, or person submitting a Proposal for the same goods, services, insurance, or construction, and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of the state and Federal law and can result in fines, prison sentences, and civil damage awards.

I further certify that the statements regarding debarments, ethics in public procurement, submission of a single proposal, understanding the conditions, and data on convictions are not misleading and understood.

I further certify that, if awarded this contract, I will not knowingly send to any CBH facility any person having been convicted of any "barrier" crimes as outlined in the Code of Virginia, Section 63.2-1719. Nor will I knowingly employ any unauthorized alien as defined in the Federal Immigration Reform and Control Act of 1986.

I hereby certify that the responses to the above representations, certification, and other statements, including all attachments, are accurate and complete. If after I sign these forms, I learn of any information which makes any of the above representations, certifications, or other statements inaccurate or incomplete, or reveals that any part of my previously submitted information is misleading, I will immediately bring it to the attention of the General Services Officer, or CBH designee. I agree to abide by all conditions of this RFP and certify that I am authorized to sign for the Contractor.

Loughridge & Company LLC

(804)353-7373

Company Name – Print

Telephone Number

5001 West Leigh Street, Richmond, Virginia 23230

Address

wbugg@loughridgeconstruction.com

(804)353-7410

Email Address

Fax Number

Wadsworth Bugg, IV

Vice President

Name – Print

Title



July 17, 2024

Signature Of Authorized Company Representative

Date

ATTACHMENT J – AUTHORITY TO TRANSACT BUSINESS IN VIRGINIA

Authority to Transact Business in Virginia

Pursuant to Virginia Code §2.2-4311.2, a Contractor organized or authorized to transact business in the Commonwealth pursuant to Title 13.1 or Title 50 of the Code of Virginia shall include in its proposal the identification number issued to it by the State Corporation Commission (“SCC”). Any Contractor that is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 of the Code of Virginia or as otherwise required by law shall attach to this form a statement describing why the Contractor is not required to be so authorized. Any Contractor described herein that fails to provide the required information shall not receive an award unless a waiver of this requirement is granted by the SCC.

Please complete the following by checking the appropriate line that applies and providing the requested information.

A. Contractor is a Virginia business entity organized and authorized to transact business in Virginia by the SCC and such vendor's Identification Number issued to it by the SCC is: S1704701

B. Contractor is an out-of-state (foreign) business entity that is authorized to transact business in Virginia by the SCC and such vendor's Identification Number issued to it by the SCC is _____

C. Contractor has applied for, but has not yet received, an Identification Number from the SCC and requests that it be granted an extension of five calendar days to provide its Identification Number to Colonial Behavioral Health.

D. Contractor does not have an Identification Number issued to it by the SCC and is not required to be authorized to transact business in Virginia in accordance with Section(s) of the Code of Virginia **and** the reasons stated on the attached document(s).

Please attach additional sheets if you need to explain why Contractor is not required to be authorized to transact business in Virginia.

Loughridge & Company LLC
Legal Name Of Company (As Registered) Print

(804)353-7373
Telephone Number

5001 West Leigh Street, Richmond, Virginia 23230
Address

wbugg@loughridgeconstruction.com
Email Address

(804)353-7410
Fax Number

Wadsworth Bugg, IV
Name – Print

Vice President
Title

Wadsworth Bugg
Signature Of Authorized Company Representative

July 17, 2024
Date

ATTACHMENT K – PROPRIETARY INFORMATION

Offeror Name Loughridge & Company LLC

Trade Secrets or Proprietary information submitted by an Offeror or Consultant in connection with a procurement transaction shall not be subject to public disclosure under the Virginia Freedom of Information Act; however, the Offeror or Consultant must invoke the protections of this section prior to or upon submission of data or other materials to be protected and state the reasons why protection is necessary. *Price quotations in proposals submitted to Colonial Behavioral Health are not “proprietary” or “confidential”*. They are considered public information. Information leading to the decision to award, including prices and other factors, shall be made public.

Please mark one:

NO- the proposal does not contain any trade secrets and/or proprietary information.

YES- the proposal does contain trade secrets and/or proprietary information.

If **YES**, please list the *page numbers* and the *reasons* why the information is considered a trade secret or proprietary information. These pages shall be conspicuously labeled “PROPRIETARY INFORMATION” in **red** ink at the top and bottom center of each page.

DO NOT MARK THE WHOLE PROPOSAL PROPRIETARY. If proprietary and/or confidential information is included in the proposal, a second “redacted” electronic version of the proposal shall be included and named “Redacted Version”.

1. Loughridge & Company Financial Statement for Years Ending 2022-2023-This is proprietary information as it is confidential to the operation of our firm. Page numbers 23-39.
2. Loughridge & Company W-9 Form-This is proprietary information as it contains our Federal Tax ID number which is confidential to the operation of our firm. Page number 226.

Kevin M. Jones

Name – Print


Signature Of Authorized Company Representative

President

Title

July 17, 2024

Date

ATTACHMENT L – REFERENCE PAGE
MUST BE FOR EQUIVALENT SERVICES

| | Reference #1 | Reference #2 | Reference #3 |
|---|---|---|--|
| Project Name | MWHC Embrey Mill Building 6 | Encompass Health Rehabilitation Hospital of Richmond | Henrico Area Mental Health and Developmental Services East Clinic |
| Scope of work | Interior Medical Space Build Out | 16 Bed Addition & Refresh | New 1 story 30,000 s.f. Clinic |
| Contract Amount | \$4,591,412.24 | \$8,693,709.97 | \$7,146,843.12 |
| Contract Completion Date | April 12, 2024 | April 16, 2021 | May 24, 2019 |
| Contract Duration | 157 Calendar Days | 540 Calendar Days | 11 Months |
| Contract Owner's Name | Medicorp Properties, Inc. Attn: Patrick Morris | Encompass Health Attn: Alan Walker | County of Henrico Attn: Jason Takacs, P.E. |
| Contract Owner's Phone | (540)741-7435 | (205)970-5951 | (804)501-5953 |
| Contract Owner's E-Mail | Patrick.Morris@mwhc.com | Alan.Walker@encompasshealth.com | TAK001@henrico.us |
| Were you Prime contractor or Sub | Prime | Prime | Prime |
| If Sub, who was Prime | | | |
| Contact info for Prime | Wadsworth Bugg, IV wbugg@loughridgeconstruction.com (804)237-1306 | Wadsworth Bugg, IV wbugg@loughridgeconstruction.com (804)237-1306 | Kevin M. Jones kjones@loughridgeconstruction.com (804)237-1303 |

*Please use an additional page, if necessary to capture all information.

I certify as to the accuracy of the information contained in Attachment L.

Wadsworth Bugg, IV, Loughridge & Company LLC
Name – Print

Vice President
Title

Signature



July 17, 2024

Date



VENDOR CONFIDENTIALITY AGREEMENT

A Vendor will perform services for Colonial Behavioral Health (CBH) that may require CBH to disclose confidential and proprietary information ("Confidential Information") to the vendor. Accordingly, to protect the Confidential Information that will be disclosed during the work performed by the vendor for CBH, the Vendor agrees as follows:

- As required by the HIPAA Privacy Rule, CBH will provide the Vendor with only the minimum amount of protected health information (PHI) necessary to fulfill true business needs. Likewise, the Vendor will not access or attempt to access information that is not strictly necessary.
- The Vendor will hold the Confidential Information received from CBH in strict confidence and will exercise a reasonable degree of care to prevent disclosure to others.
- The Vendor will not disclose or divulge the Confidential Information either directly or indirectly outside of the terms established in the service agreement or contract unless first authorized to do so in writing by Colonial Behavioral Health's Executive Director or their designee.
- The Vendor will not reproduce the Confidential Information nor use this information commercially or for any purpose other than the performance of the Vendor's duties for CBH.
- The Vendor will, upon request or upon termination of the relationship with CBH, deliver to CBH information, materials, and/or equipment received from CBH or originating from or related to work performed for CBH.
- CBH reserves the right to take action in the event of any disclosure of information in violation of this agreement or applicable HIPPA regulations as required and/or allowed by law.
- PHI cannot be removed from CBH property without prior authorization by Colonial Behavioral Health's Executive Director or their designee. Vendors should have formal policies and procedures in place to reasonably protect against the unauthorized use and disclosure of PHI as required per 42 CFR § 2.16. If Vendors do not have such a policy or the existing policy is not sufficient to meet the standard required by law, the Vendor agrees to abide by relevant policies established by CBH.

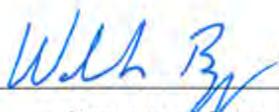


VENDOR CONFIDENTIALITY AGREEMENT

- This agreement will be interpreted under and governed by the laws of the Commonwealth of Virginia.
- All provisions of this agreement will be applicable only to the extent that they do not violate any applicable law and are intended to be limited to the extent necessary so that they will not render this agreement invalid, illegal, or unenforceable. If any provision of this agreement or any application thereof will be held to be invalid, illegal, or unenforceable, the validity, legality, and enforceability of other provisions of this agreement or of any other application of such provision will in no way be affected thereby.

By signing this Agreement with an original signature, and returning the signed document, you agree that original signatures transmitted and received via facsimile, email, or other electronic transmission of a scanned document (e.g., PDF or similar format) are true and valid signatures for all purposes hereunder and shall bind the parties to the same extent as that of an original signature. Any such electronic transmission shall constitute the final agreement of the parties and conclusive proof of such agreement. Any such electronic counterpart shall be of enough quality to be legible either electronically or when printed as hardcopy. CBH shall determine legibility and acceptability for public record purposes.

Witness the following duly authorized signatures and seals.



Signature of Vendor Representative



Date



Name of Vendor Representative
(Please Print)



Company Name

11.0 **GENERAL TERMS AND CONDITIONS**

- A. **APPLICABLE LAWS AND COURTS:** This contract shall be governed in all respects by the laws of the Commonwealth of Virginia and any litigation with respect thereto shall be brought in the courts of the Commonwealth. The Vendor shall comply with applicable federal, state and local laws and regulations.
- B. **ETHICS IN PUBLIC CONTRACTING:** By signing this contract the Vendor certifies that their contract is made without collusion or fraud and that they have not offered or received any kickbacks or inducements from any other Vendor, supplier, manufacturer or subcontractor in connection with their contract, and that they have not conferred on any public employee having official responsibility for this procurement transaction any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised unless consideration of substantially equal or greater value was exchanged.
- C. **COMPLIANCE:** By signing this contract, the Vendor certifies that it is and will remain in full compliance with:
 - The Federal Civil Rights Act of 1964, as amended.
 - The Federal Immigration Reform and Control Act of 1986.
 - The Virginia Fair Employment Act of 1975, as amended, where applicable.
 - The Virginia Conflict of Interest Act.
 - The Virginians With Disabilities Act.
 - The Americans With Disabilities Act.
 - Section 2.2-4311 (Employment Discrimination Act) of the Virginia Public Procurement Act.
 - Sections 2.2-4367 through 2.2-4377 (Ethics in Public Contracting) of the Virginia Public Act
 - Section 2.2-4354 (Payment to Subcontractor) of the Virginia Public Procurement Act.
 - The Antitrust laws of the United States and the Commonwealth of Virginia.
- D. **EMPLOYMENT DISCRIMINATION BY CONTRACTORS PROHIBITED**
Every Contract of over \$10,000 shall include the following provisions:
 - i. During the performance of this contract, the Contractor agrees as follows:
 - a. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, status as a service-disabled veteran, or any other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
 - b. The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, shall state that such Contractor is an equal opportunity employer.
 - c. Notices, advertisements, and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient to meet this requirement.
 - ii. The Contractor will include the provisions of the foregoing paragraphs, 1, 2, and 3 in every Subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each Subcontractor or vendor.
- E. **DEBARMENT STATUS:** By signing this contract, Vendors certify that they are not currently debarred from submitting proposals on contracts by the Commonwealth of Virginia, the Federal Government, nor are they an agent of any person or entity that is currently debarred from submitting proposals on contracts by the Commonwealth of Virginia or the Federal Government.
- F. **ANTITRUST:** By entering into this contract, the Vendor conveys, sells, assigns, and transfers to Colonial Behavioral Health all rights, title and interest in and to all causes of the action it may now have or hereafter acquire under the antitrust laws of the United States and the Commonwealth of Virginia, relation to the particular services purchased or acquired by Colonial Behavioral Health under said contract.
- G. **CONFIDENTIALITY:** The Contractor acknowledges and understands that its employees may have access to proprietary, business information, or other confidential information belonging to CBH. Therefore, except as required by law, the Contractor agrees that its employees will not:
 - i. Access or attempt to access data that is unrelated to their job duties or authorizations as related to this Contract.
 - ii. Access or attempt to access information beyond their stated authorization.
 - iii. Disclose to any other person or allow any other person access to any information related to CBH or any of its facilities or any other user of this Contract that is proprietary or confidential. Disclosure of information includes, but is not limited to, verbal discussions, FAX transmissions, electronic mail messages, voice mail communication, written documentation, "loaning" computer access codes and/or another transmission or sharing of data.

The Contractor understands that CBH, or others may suffer irreparable harm by disclosure of proprietary or confidential information and that CBH may seek legal remedies available to it should such disclosure occur. Further, the Contractor understands that violations of this provision may result in Contract termination.

The Contractor further understands that information and data obtained during the performance of this agreement shall be considered confidential, during and following the term of this Contract, and will not be divulged without the General Services Officer's written consent and then only in strict accordance with prevailing laws. The Contractor shall hold all information provided by CBH as proprietary and confidential and shall make no unauthorized reproduction or distribution of such material.

Vendor initial WB

Colonial Behavioral Health initial _____

H. HIPAA COMPLIANCE: Contractor warrants as follows:

That the Contractor will, in all respects, comply with requirements of the Health Insurance Portability and Accountability Act of 1996, and any subsequent revisions or amendments to this legislation in all aspects of its operations in connection with this contract.

That all products and services provided under this contract will, in all respects, comply with requirements of the Health Insurance Portability and Accountability Act of 1996, and any subsequent revisions or amendments to this legislation.

That any modifications or actions on the part of CBH that are required to comply with the requirements of this section will be fully disclosed to CBH in writing, and will not require additional operating procedures, interventions, or cost to Colonial Behavioral Health, now or in the future.

I. PRECEDENCE OF TERMS: Paragraphs A-G of these General Terms and Conditions shall apply in all instances. In the event there is a conflict between any of the other General Terms and Conditions and the Special Terms and Conditions in this contract, the Special Terms and Conditions shall apply.

J. PAYMENT TERMS: Any payment terms requiring payment in less than 30 days will be regarded as requiring payment 30 days after invoice or delivery, whichever occurs last. This shall not affect offers of discounts for payment in less than 30 days, however.

K. QUALIFICATIONS: Colonial Behavioral Health may make such reasonable investigations as deemed proper and necessary to determine the ability of the Vendor to perform the work and the Vendor shall furnish to Colonial Behavioral Health all such information and data for this purpose as may be requested. Colonial Behavioral Health reserves the right to inspect Vendor's physical facilities to satisfy questions regarding the Vendor's capabilities.

L. ASSIGNMENT OF CONTRACT: A contract shall not be assignable by the Vendor in whole or in part without the written consent of Colonial Behavioral Health.

M. CHANGES TO THE CONTRACT: Changes can be made within the general scope of the contract by Colonial Behavioral Health with written notification to the Vendor. The parties may agree in writing to modify the scope of the contract.

N. DEFAULT: In case of failure to deliver services in accordance with Contract Terms and Conditions, Colonial Behavioral Health, after due oral or written notice, may procure them from other sources and hold the Vendor responsible for any resulting additional purchase and administrative costs. The remedy shall be in addition to any other remedies which Colonial Behavioral Health may have.

O. TAXES: Sales to the Community Services Board are normally exempt from State sales tax. State sales and use tax certificates of exemption will be issued upon request. Deliveries against this contract shall be free of Federal Excise and Transportation taxes.

P. SERVICES TO BE FURNISHED BY COLONIAL BEHAVIORAL HEALTH: Colonial Behavioral Health shall furnish the Vendor with all available necessary information, data, and material pertinent to the execution of this Agreement. Colonial Behavioral Health shall cooperate with the Vendor in carrying out the services herein and shall provide adequate staff coordination and support to the Vendor.

Q. RECORDS AND INSPECTIONS: The Vendor shall maintain full and accurate records with respect to all services provided under this Agreement. Colonial Behavioral Health shall have free access at all proper times to such records and shall have the right to examine and audit the same and to make transcripts therefrom, and to inspect all program data, documents, proceedings, and activities.

R. COLONIAL BEHAVIORAL HEALTH NOT OBLIGATED TO THIRD PARTIES: Colonial Behavioral Health shall not be obligated or liable hereunder to any party other than the Vendor. Employees and agents of Vendor shall not be deemed employees or agents of Colonial Behavioral Health for any purpose, and all compensation for such employees and agents (including workers compensation insurance coverage) shall be provided by Vendor.

S. CRIMINAL BACKGROUND CHECKS: The Contractor shall submit the names, social security numbers, and other information of its employees when requested. This information will only be used by CBH to obtain nation-wide criminal background checks when CBH, in its sole discretion, determines it necessary for reasons of security or confidentiality. These background checks, when requested, will be performed at CBH's expense.

Vendor initial WB

Colonial Behavioral Health initial _____

12.0 **SPECIAL TERMS AND CONDITIONS**

- A. **AVAILABILITY OF FUNDS:** It is understood and agreed between the parties herein that Colonial Behavioral Health shall be bound hereunder only to the extent of the funds available, or which may hereafter become available for the purpose of this agreement.
- B. **CANCELLATION OF CONTRACT:** Colonial Behavioral Health reserves the right to cancel and terminate any resulting contract, in part or in whole, without penalty, upon at will notice to the Vendor. Any contract cancellation notice shall not relieve the Vendor of the obligation to deliver and/or perform all outstanding orders issued prior to the effective date of cancellation.
- C. **CLAIMS:** Any contractual claim, whether for money or other relief arising under this contract, shall be submitted in writing, in accordance with Section 11-69 of the code of Virginia, no later than sixty (60) days after final payment; however, written notice of the Vendor's intention to file such claim shall have been given at the time of the occurrence or beginning of the work upon which the claim has been based. The claim shall be submitted to the Executive Director, Colonial Behavioral Health, 1657 Merrimac Trail, Williamsburg, Virginia 23185.
- D. **VENDOR PROPERTY DAMAGES:** The Vendor shall be entirely responsible for any loss or damage to its own materials, supplies and equipment, and to the personal property of its employees while they are maintained on the work site.
- E. **EXTENSION OF CONTRACT:** Upon agreement of both parties, this contract may be extended by the purchasing agency under the terms of the current contract, with reasonable notice given to Vendor (approximately 30 days) prior to the expiration date.
- F. **INSPECTION OF JOB SITE:** My signature on this contract constitutes certification that I have inspected the job site and am aware of the conditions under which the work must be accomplished. Claims, as a result of failure to inspect the job site, will not be considered by Colonial Behavioral Health.
- G. **WORKMANSHIP AND INSPECTION:** All work under this Contract shall be performed in a skillful and workmanlike manner. The contractor and its employees shall be professional and courteous at all times. CBH may, in writing, require the Contractor to remove any employee from work for reasonable cause as determined by CBH. Further, CBH may, from time to time, make inspections of the work performed under the Contract. Any inspection by CBH does not relieve the Contractor from any responsibility in meeting the Contract requirements.
- H. **PERMITS AND LICENSES:** The Vendor is required to hold or obtain before services begin, all relevant permits and/or licenses as required by law.
- I. **VENDOR REGISTRATION:** If a contract for construction, removal, repair or improvement of a building or other real property is for seventy thousand dollars (\$70,000) or more, or if the total value of all such contracts undertaken by Vendor within any twelve month period is three hundred thousand dollars (\$300,000) or more, the Vendor is required under Title 54, Code of Virginia (1950), as amended, to be licensed by the State Board of Contractors as a "Class A Contractor". If such a contract is for seventy-five hundred dollars (\$7,500) or more but less than seventy thousand dollars (\$70,000), the Vendor is required to be licensed as a "Class B Contractor". If such a contract is for one thousand dollars (\$1,000) or more but less than seventy-five dollars (\$7,500), the Vendor is required to be licensed as a "Class C Contractor".
- J. **INSURANCE:** By signing and submitting this contract the Vendor certifies that, it will have, as a minimum, the following liability insurance coverages at the time the work commences. Additionally, it will maintain this during the entire term of the contract and that all insurance coverages will be provided by insurance companies authorized to sell insurance in Virginia by the Virginia State Corporation Commission. During the period of the contract Colonial Behavioral Health reserves the right to require the Vendor to furnish certificates of insurance for the coverages required by Colonial Behavioral Health as indicated.

INSURANCE COVERAGES REQUIRED:

Professional Liability

Limits of Liability - \$1,000,000 Per Occurrence (May be more depending on the professional service required.)

Worker's Compensation and Employer's Liability

Coverage A - Statutory Requirement

Coverage B - \$100,000; \$100,000; \$500,000

Comprehensive Automobile Liability, including Owned, Non-Owned

Limits of Liability - \$1,000,000 Per Occurrence Bodily Injury or Property Damage

General Liability

Limits of Liability - \$1,000,000. Per Occurrence Bodily Injury or Property Damage

Contractual Liability includes the Contractual Liability assumed hereunder.

Completed Operations Insurance - to remain in full effect until the date of acceptance of the project by Colonial Behavioral Health.

- K. **WORK SITE DAMAGES:** Any damage, including damage to finished surfaces, resulting from the performance of this contract shall be repaired to Colonial Behavioral Health's satisfaction at the Vendor's expense

Vendor initial WB

Colonial Behavioral Health initial _____

L. **SAFETY:** All Contractors and subcontractors performing services for CBH are required to and shall comply with all Occupational Safety and Health Administration (OSHA), State and CBH Safety and Occupational Health Standards and any other applicable rules and regulations. Also, all Contractors and subcontractors shall be held responsible for the safety of their employees and any unsafe acts or conditions that may cause injury or damage to any persons or property within and around the work site area under this Contract.

M. **DRUG FREE WORKPLACE:** The Vendor acknowledges and certifies that it understands that the following acts by the Vendor, its employees, and/or agents performing services on Colonial Behavioral Health property are prohibited:

- i. The unlawful manufacture, distribution, dispensing, possession or use of alcohol or other drugs; and
- ii. Any impairment or incapacitation from the use of alcohol or other drugs (except the use of drugs for legitimate medical purposes).

The Vendor further acknowledges and certifies that it understands that a violation of these prohibitions constitutes a breach of contract and may result in default action being taken by Colonial Behavioral Health in addition to any criminal penalties that may result from such contract.

N. **EXTRA CHARGES NOT ALLOWED:** The proposed price shall be for complete installation ready for Colonial Behavioral Health's use and shall include all applicable freight and installation charges; extra charges will not be allowed.

O. **INDEMNIFICATION:** Vendor agrees to indemnify, defend and hold harmless Colonial Behavioral Health, its officers, agents, and employees from any claims, damages and actions of any kind or nature, whether at law or in equity, arising from or caused by the use of any materials, goods, or equipment of any kind or nature furnished by the Vendor/any services of any kind or nature furnished by the Vendor, provided that such liability is not attributable to the sole negligence of the using agency or to failure of the using agency to use materials, goods, or equipment in the manner already permanently described by the Vendor on the materials, goods or equipment delivered.

P. **RELATIONSHIP OF PARTIES:** The parties agree to be and act as independent vendors and that under no circumstances shall either party perform any act or conduct any activity pursuant to which this Agreement could be construed to be an agreement of agency, partnership, joint venture, or employment between them.

Q. **LIENS:** At no time shall the vendor permit any mechanics or similar liens to attach to Colonial Behavioral Health premises on account of labor or material furnished to the vendor or claimed to have been furnished to the vendor, in connection with its work hereunder.

R. **FAITH BASED ORGANIZATIONS:** Colonial Behavioral Health does not discriminate against faith-based organizations.

S. **COOPERATIVE PROCUREMENT:** As authorized in Section 2.2-4304 of the Code of Virginia, this procurement is being conducted on behalf of and may be used by public bodies, agencies, institutions, and localities of the Commonwealth with the consent of the contractor.

T. **W-9 FORM REQUIRED:** Each Bidder shall be prepared to furnish a completed W-9 form in the event of contract award. This information is required in order to issue purchase orders and payments to your Team.

U. **NON-EXCLUSIVE CONTRACT:** Nothing herein is intended nor shall be construed as creating any exclusive arrangement with Contractor. Any resulting contract shall not restrict Colonial Behavioral Health from acquiring similar, equal or like goods and or services from other sources.

V. **NON-EXCLUSIVE LICENSE-OWNERSHIP AND USE OF DOCUMENTS:** The Contractor permanently and irrevocably assigns to CBH a royalty-free, nonexclusive, non-transferrable license for all documents and intellectual property, as well as all derivative works thereof, including but not limited to plans, specifications, designs, tracings, drawings, estimates, field notes, investigations, design analysis, reports, studies and derivative works thereof, in any media now known or hereinafter discovered, which are prepared in the performance of the Contract by the Contractor and its sub-Contractors; such may be used, reproduced, distributed, and displayed by Colonial Behavioral Health, at its discretion. The license and all rights, which inure to Colonial Behavioral Health shall survive the termination or disengagement of services of the Contractor or its sub-Contractors, or both, from the work, whether such termination or disengagement is involuntary or otherwise determined.

13.0 **METHOD OF PAYMENT**
Payment will be authorized following receipt of a valid invoice and completion of services according to the Scope of Work. The Contract number shall be included on each invoice. Failure to include this information may delay payment. Invoices shall be submitted directly to the following physical and/or email address:

Colonial Behavioral Health
ATTN: General Services
1657 Merrimac Trail
Williamsburg, VA 23185
or Generalservices@colonialbh.org

Vendor initial WB Colonial Behavioral Health initial _____

REFERENCE ATTACHMENT K
THE LOUGHRIDGE & COMPANY
W-9 FORM
IS PROPRIETARY INFORMATION.
THEREFORE, IT HAS BEEN REDACTED/REMOVED
FROM
THE REDACTED VERSION OF THIS PPEA RESPONSE.

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

| | | |
|---|---|---|
| PRODUCER McGriff Insurance Services LLC 2200 Old Brick Rd. Ste. A Glen Allen, VA 23060 | CONTACT NAME: Dale Nowery PHONE (A/C, No, Ext): 804 678-5000 E-MAIL ADDRESS: ricvabcerts@mcfgriff.com | FAX (A/C, No): 8887513010 |
| | INSURER(S) AFFORDING COVERAGE | |
| | INSURER A : The Cincinnati Insurance Company 10677 | |
| INSURED Loughridge & Company LLC 5001 West Leigh Street Richmond, VA 23230-5442 | INSURER B : The Continental Insurance Company 35289 | |
| | INSURER C : Builders Premier Insurance Company 13036 | |
| | INSURER D : | |
| | INSURER E : | |
| | INSURER F : | |
| | | |

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE | | ADDL INSR | SUBR WVD | POLICY NUMBER | | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS | | | | | | | |
|----------|--|--|--|----------|---------------|--------------|-------------------------|-------------------------|------------|---|--------------|--|--|--|--|--|
| A | COMMERCIAL GENERAL LIABILITY | | | Y | Y | EPP0607496 | | 03/10/2024 | 03/10/2025 | EACH OCCURRENCE | \$1,000,000 | | | | | |
| | CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR | | | | | | | | | DAMAGE TO RENTED PREMISES (EA occurrence) | \$500,000 | | | | | |
| | X PD Ded:1,000 | | | | | | | | | MED EXP (Any one person) | \$10,000 | | | | | |
| | GEN'L AGGREGATE LIMIT APPLIES PER: | | | | | | | | | PERSONAL & ADV INJURY | \$1,000,000 | | | | | |
| | POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC | | | | | | | | | GENERAL AGGREGATE | \$2,000,000 | | | | | |
| | OTHER: | | | | | | | | | PRODUCTS - COMP/OP AGG | \$2,000,000 | | | | | |
| | | | | | | | | | | | \$ | | | | | |
| A | AUTOMOBILE LIABILITY | | | Y | Y | EPP0607496 | | 03/10/2024 | 03/10/2025 | COMBINED SINGLE LIMIT (EA accident) | \$1,000,000 | | | | | |
| | <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY | | | | | | | | | BODILY INJURY (Per person) | \$ | | | | | |
| | <input checked="" type="checkbox"/> HIRED AUTOS ONLY | | | | | | | | | BODILY INJURY (Per accident) | \$ | | | | | |
| | | | | | | | | | | PROPERTY DAMAGE (Per accident) | \$ | | | | | |
| | | | | | | | | | | | \$ | | | | | |
| | | | | | | | | | | | | | | | | |
| A | <input checked="" type="checkbox"/> UMBRELLA LIAB | | <input checked="" type="checkbox"/> OCCUR EXCESS LIAB | Y | Y | EPP0607496 | | 03/10/2024 | 03/10/2025 | EACH OCCURRENCE | \$16,000,000 | | | | | |
| | | | | | | 7091744685 | | | | AGGREGATE | \$16,000,000 | | | | | |
| | | | | | | | | | | | \$ | | | | | |
| C | DED <input checked="" type="checkbox"/> RETENTION \$0 | | | Y/N | N/A | PWC101806300 | | 03/10/2024 | 03/10/2025 | <input checked="" type="checkbox"/> PER STATUTE | OTH-ER | | | | | |
| | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | | | | | | | | E.L. EACH ACCIDENT | \$1,000,000 | | | | | |
| | ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? | | | | | | | | | E.L. DISEASE - EA EMPLOYEE | \$1,000,000 | | | | | |
| | (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below | | | | | | | | | E.L. DISEASE - POLICY LIMIT | \$1,000,000 | | | | | |
| | | | | | | | | | | | | | | | | |
| A | Leased/Rented Equipment | | | | | EPP0607496 | | 03/10/2024 | 03/10/2025 | \$250,000 Limit \$1,000 Deductible | | | | | | |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

If coverage provided to the additional insured is required by a written contract, limits will be restricted to the lesser of the limit required by the contract or the policy limits shown in the declarations.

Blanket Additional Insured with Waiver of Subrogation is included with respect to General Liability, (See Attached Descriptions)

CERTIFICATE HOLDER

CANCELLATION

| CERTIFICATE HOLDER | CANCELLATION |
|---|---|
| <p>Colonial Behavioral Health 1657 Merrimac Trail Williamsburg, VA 23185</p> | <p>SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.</p> |

DESCRIPTIONS (Continued from Page 1)

Automobile Liability and Umbrella Liability Coverage when required by written contract. Waiver of Subrogation is included with respect to Workers Compensation Coverage when required by written contract.
RFP # A240325

Builders Risk at 100% of insurable contract value to be provided upon contract award.

ACORD™

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/16/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERNS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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| | | | |
|--|--|--|------------------------------|
| PRODUCER | | CONTACT NAME: PHONE (A/C, No, Ext): 804 678-5000 | FAX (A/C, No): 8887513010 |
| McGriff Insurance Services LLC 2200 Old Brick Rd. Ste. A Glen Allen, VA 23060 | | E-MAIL ADDRESS: CertificatesVAWV@McGriff.com | |
| INSURED | | INSURER(S) AFFORDING COVERAGE INSURER A: Liberty Insurance Underwriters | |
| Worley Associates Architects, PLLC 908 N. Thompson Street Richmond, VA 23230 | | NAIC # 19917 | |
| | | INSURER B: | |
| | | INSURER C: | |
| | | INSURER D: | |
| | | INSURER E: | |
| | | INSURER F: | |

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE | ADDL INSR | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS | |
|-------------|---|--------------|-------------|----------------|----------------------------|--|---|----|
| | COMMERCIAL GENERAL LIABILITY | | | | | | EACH OCCURRENCE | \$ |
| | CLAIMS-MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> | | | | | | DAMAGE TO RENTED PREMISES (Ea occurrence) | \$ |
| | | | | | | | MED EXP (Any one person) | \$ |
| | | | | | | | PERSONAL & ADV INJURY | \$ |
| | | | | | | | GENERAL AGGREGATE | \$ |
| | | | | | | | PRODUCTS - COMP/OP AGG | \$ |
| | AUTOMOBILE LIABILITY | | | | | COMBINED SINGLE LIMIT (Ea accident) | \$ | |
| | ANY AUTO OWNED AUTOS ONLY | | | | | BODILY INJURY (Per person) | \$ | |
| | Hired AUTOS ONLY | | | | | BODILY INJURY (Per accident) | \$ | |
| | | | | | | PROPERTY DAMAGE (Per accident) | \$ | |
| | | | | | | | \$ | |
| | | | | | | | \$ | |
| | UMBRELLA LIAB | | | | | EACH OCCURRENCE | \$ | |
| | EXCESS LIAB | | | | | OCCUR | | |
| | | | | | | CLAIMS-MADE | | |
| | DED | | | | | RETENTION \$ | | |
| | | | | | | | | |
| | | | | | | | | |
| | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | Y / N | N / A | | | PER STATUTE | OTH- ER | |
| | ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? | | | | | E.L. EACH ACCIDENT | \$ | |
| | (Mandatory in NH) | | | | | E.L. DISEASE - EA EMPLOYEE | \$ | |
| | If yes, describe under DESCRIPTION OF OPERATIONS below | | | | | E.L. DISEASE - POLICY LIMIT | \$ | |
| | | | | | | | | |
| | | | | | | | | |
| A | Professional Liability | | | AEX19633301114 | 10/25/2023 | 10/25/2024 | \$1,000,000 Per Claim \$2,000,000 Aggregate \$10,000 Per Claim Ded. | |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

| | | | |
|---|--|--|--|
| CERTIFICATE HOLDER | | CANCELLATION | |
| Colonial Behavioral Health 1657 Merrimac Trail Williamsburg, VA 23185 | | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. | |
| | | AUTHORIZED REPRESENTATIVE  | |



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
07/17/2024

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| | | |
|--|--|----------------|
| PRODUCER MCGRIFF INSURANCE SERVICES LLC/PHS 14731663 The Hartford Business Service Center 3600 Wiseman Blvd San Antonio, TX 78251 | CONTACT NAME: PHONE (A/C, No, Ext): (866) 467-8730 | FAX (A/C, No): |
| | E-MAIL ADDRESS: INSURER(S) AFFORDING COVERAGE NAIC# | |
| INSURED Worley Associates Architects PLLC 908 N THOMPSON ST RICHMOND VA 23230-4909 | INSURER A : Hartford Casualty Insurance Company | 29424 |
| | INSURER B : | |
| | INSURER C : | |
| | INSURER D : | |
| | INSURER E : | |
| | INSURER F : | |

| COVERAGES | | CERTIFICATE NUMBER: | | REVISION NUMBER: | | | | |
|---|---|---------------------|----------|------------------|-------------------------|-------------------------|---|--------------------|
| | | | | | | | | |
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| INSR LTR | TYPE OF INSURANCE | ADDL INSR | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/Y YY) | LIMITS | |
| A | COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR X General Liability | | | 14 SBA AS5012 | 03/27/2024 | 03/27/2025 | EACH OCCURRENCE | \$2,000,000 |
| | GEN'L AGGREGATE LIMIT APPLIES PER: POLICY <input type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER: | | | | | | DAMAGE TO RENTED PREMISES (Ea occurrence) | \$300,000 |
| | | | | | | | MED EXP (Any one person) | \$10,000 |
| | | | | | | | PERSONAL & ADV INJURY | \$2,000,000 |
| | | | | | | | GENERAL AGGREGATE | \$4,000,000 |
| | | | | | | | PRODUCTS - COMP/OP AGG | \$4,000,000 |
| A | AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS Hired AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS | | | 14 SBA AS5012 | 03/27/2024 | 03/27/2025 | COMBINED SINGLE LIMIT (Ea accident) | \$2,000,000 |
| | | | | | | | BODILY INJURY (Per person) | |
| | | | | | | | BODILY INJURY (Per accident) | |
| | | | | | | | PROPERTY DAMAGE (Per accident) | |
| | | | | | | | | |
| | | | | | | | | |
| | UMBRELLA LIAB EXCESS LIAB DED RETENTION \$ | | | | | | EACH OCCURRENCE | |
| | | | | | | | AGGREGATE | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| A | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below | Y/N N/A | | | | | PER STATUTE | OTHEr |
| | | | | | | | E.L. EACH ACCIDENT | |
| | | | | | | | E.L. DISEASE -EA EMPLOYEE | |
| | | | | | | | E.L. DISEASE - POLICY LIMIT | |
| | | | | | | | | |
| | | | | | | | | |
| A | EMPLOYMENT PRACTICES LIABILITY | | | 14 SBA AS5012 | 03/27/2024 | 03/27/2025 | Each Claim Limit Aggregate Limit | \$5,000 \$5,000 |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Those usual to the Insured's Operations.

CERTIFICATE HOLDER

Colonial Behavioral Health
1657 MERRIMAC TRL
WILLIAMSBURG VA 23185

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Susan L. Castaneda

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
07/17/2024

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| | | | |
|--|---|---|----------------|
| PRODUCER MCGRIFF INSURANCE SERVICES LLC 14730460 The Hartford Business Service Center 3600 Wiseman Blvd San Antonio, TX 78251 | CONTACT NAME: PHONE (A/C, No, Ext): | (866) 467-8730 | FAX (A/C, No): |
| | E-MAIL ADDRESS: | INSURER(S) AFFORDING COVERAGE NAIC# | |
| INSURED Worley Associates Architects PLLC 908 N THOMPSON ST RICHMOND VA 23230-4909 | INSURER A : | Property and Casualty Insurance Company of Hartford 34690 | |
| | INSURER B : | | |
| | INSURER C : | | |
| | INSURER D : | | |
| | INSURER E : | | |
| | INSURER F : | | |

| COVERAGES | | CERTIFICATE NUMBER: | | REVISION NUMBER: | | | | |
|---|---|---------------------|---------------|------------------|-------------------------|-------------------------|--|-------------|
| | | | | | | | | |
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| INSR LTR | TYPE OF INSURANCE | ADDL INSR | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS | |
| | COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input type="checkbox"/> OCCUR | | | | | | EACH OCCURRENCE | |
| | GEN'L AGGREGATE LIMIT APPLIES PER: POLICY <input type="checkbox"/> PRO- JECT <input type="checkbox"/> LOC | | | | | | DAMAGE TO RENTED PREMISES (Ea occurrence) | |
| | OTHER: | | | | | | MED EXP (Any one person) | |
| | AUTOMOBILE LIABILITY ANY AUTO | | | | | | PERSONAL & ADV INJURY | |
| | ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS | | | | | | GENERAL AGGREGATE | |
| | Hired AUTOS <input type="checkbox"/> | | | | | | PRODUCTS - COMP/OP AGG | |
| | UMBRELLA LIAB EXCESS LIAB | | | | | | COMBINED SINGLE LIMIT (Ea accident) | |
| | DED <input type="checkbox"/> RETENTION \$ | | | | | | BODILY INJURY (Per person) | |
| WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below | Y/N | N/A | 14 WEC GU9710 | 03/27/2024 | 03/27/2025 | X PER STATUTE | OTHR | |
| | | | | | | | E.L. EACH ACCIDENT | \$1,000,000 |
| | | | | | | | E.L. DISEASE -EA EMPLOYEE | \$1,000,000 |
| | | | | | | | E.L. DISEASE - POLICY LIMIT | \$1,000,000 |
| DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Those usual to the Insured's Operations. | | | | | | | | |

| | | | |
|--|--|--|--|
| CERTIFICATE HOLDER Colonial Behavioral Health 1657 MERRIMAC TRL WILLIAMSBURG VA 23185 | | CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. | |
| | | AUTHORIZED REPRESENTATIVE <i>Susan L. Castaneda</i> | |

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COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

9960 Mayland Drive, Suite 400, Richmond, VA 23233

Telephone: (804) 367-8500

EXPIRES ON

11-30-2025

NUMBER

2705100856

BOARD FOR CONTRACTORS
CLASS A CONTRACTOR
CLASSIFICATIONS CBC RBC



LOUGHRIDGE & COMPANY LLC
5001 WEST LEIGH STREET
RICHMOND, VA 23230

DPOR

Kishore S. Thota
Kishore S. Thota, Director

Status can be verified at <http://www.dpor.virginia.gov>

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)

DPOR COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

CLASS A BOARD FOR CONTRACTORS
CONTRACTOR

CLASSIFICATIONS CBC RBC

NUMBER: 2705100856 EXPIRES: 11-30-2025

LOUGHRIDGE & COMPANY LLC
5001 WEST LEIGH STREET
RICHMOND, VA 23230



(FOLD)

Status can be verified at <http://www.dpor.virginia.gov>

DPOR-PC (02/2017)



Colonial Behavioral Health

SERVING JAMES CITY COUNTY, CITY OF POQUOSON, CITY OF WILLIAMSBURG AND YORK COUNTY

Date: May 23, 2024

Request for Proposal (RFP): A240325

Addendum Number: One

Service: Crisis Services Center

The RFP is modified as follows:

1. Page 13 – 12.0 Special Terms and Conditions; Section J, Insurance.

J. **INSURANCE:** By signing and submitting this contract the Vendor certifies that, it will have, as a minimum, the following liability insurance coverages at the time the work commences. Additionally, it will maintain this during the entire term of the contract and that all insurance coverages will be provided by insurance companies authorized to sell insurance in Virginia by the Virginia State Corporation Commission.

During the period of the contract Colonial Behavioral Health reserves the right to require the Vendor to furnish certificates of insurance for the coverages required by Colonial Behavioral Health as indicated.

INSURANCE COVERAGES REQUIRED:

Professional Liability

Limits of Liability - \$1,000,000 Per Occurrence (May be more depending on the professional service required.)

Worker's Compensation and Employer's Liability

Coverage A - Statutory Requirement

Coverage B - \$100,000; \$100,000; \$500,000

General Liability

| | |
|----------------|-------------|
| Per Occurrence | \$1,000,000 |
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| | |
|-----------------------------|-------------|
| Personal/Advertising Injury | \$1,000,000 |
|-----------------------------|-------------|

| | |
|-------------------|-------------|
| General Aggregate | \$2,000,000 |
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|-------------------------------|-------------|
| Products/Completed Operations | \$2,000,000 |
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|-----------------------------|-----------|
| Fire Damage Legal Liability | \$100,000 |
|-----------------------------|-----------|

Coverage should be on a Per Project Basis

| | |
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| Automobile Liability* | \$1,000,000 |
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*Comprehensive Automobile Liability, including Owned, Non-Owned. Per Occurrence Bodily Injury or Property Damage.

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|-----------------------|-------------|
| Combined Single Limit | \$1,000,000 |
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| Builder's Risk | 100% of Value** |
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**100% of the insurable value of the contract. Insurable value does not include site acquisition, site work, grading, infrastructure, etc.

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| Boiler & Machinery (If Applicable) | \$1,000,000 |
|------------------------------------|-------------|

Kisha Young, MBA, VCA
General Services Officer
Kyoung@colonialbh.org

Sign

07/11/2024

Date



Colonial Behavioral Health

SERVING JAMES CITY COUNTY, CITY OF POQUOSON, CITY OF WILLIAMSBURG AND YORK COUNTY

Date: June 26, 2024

Request for Proposal (RFP): A240325

Addendum Number: Two

Service: Crisis Services Center

The RFP is modified as follows:

ATTACHMENT M - MEDICATION DISPENSING DEVICE; Page 22 of 27.

Description - The Crisis Services Center will require a larger medication workroom than what is noted in Attachment A – Program. Conceptual proposals must provide a recommended design, to include infrastructure, of a medication workroom in the Crisis Services Center that will contain a medication dispensing system. Pages two (2) through six (6) of Attachment M provide detailed installation requirements of Partners Pharmacy's PassPort medication dispensing system. The Owner will furnish and install the unit.

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Page 1 of 6

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Sign _____


Date _____

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| Policy & Procedure  PartnersPharmacy | Title: Field Service, PassPort Installation Requirements, 230 | Part Number: 7800-0004-0042 |
| | Revision: F | Page 1 of 5 |

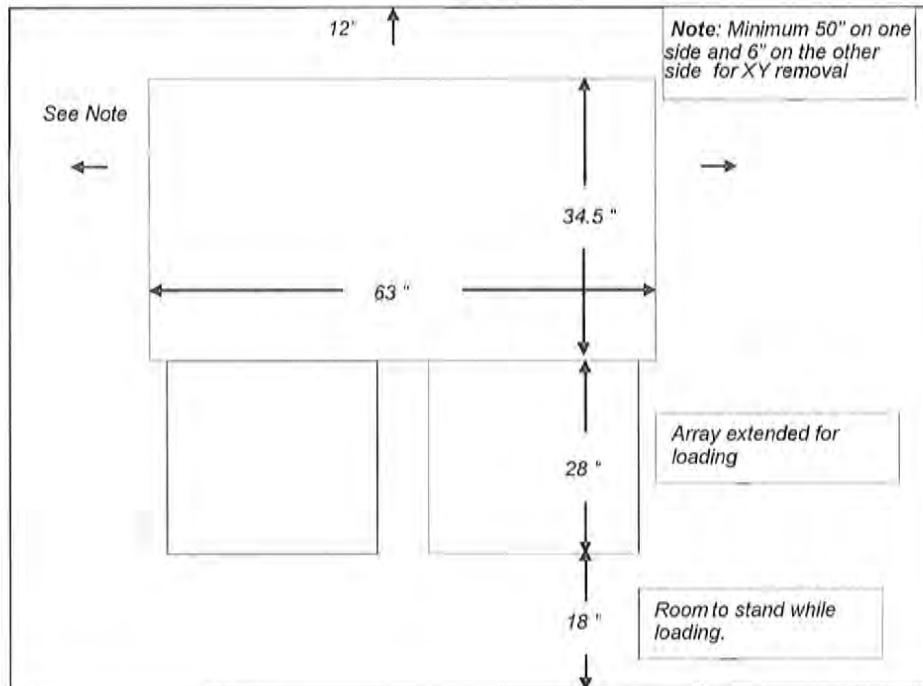
Selecting a Location for PassPort

The PassPort needs to be installed in a location conveniently accessible from the nursing station(s). Given the expected activity around the PassPort, it should not be located close to residents' rooms. Place it out of the way of traffic, with enough room around it for operating, restocking, and servicing. In choosing a location, be sure to consider fire and evacuation routes.

The PassPort will be shipped with shipping wheels to facilitate its transfer from the unloading area to the installation location. With shipping wheels, the height of the PassPort will be approximately 73.74". The PassPort rolls through a standard 36 in. door, with the door removed (34.5 in.). Leave enough swing room for the 63 in. length to line up straight through the opening.

Space Requirements

The PassPort is 63 in. wide by 34.5 in. deep. During normal operations, it requires 12 in. behind and 6 in. on each side for ventilation and electric phone connections. To load drugs into the PassPort, the Med Racks need to extend 28 in. to the front. The PassPort needs additional room in front of, or to the side of the racks for the drug loader. In case repairs require the removal of the pill pickup robotics (XY's), the PassPort needs 50 in. of clearance on either the right or left side. If it is impossible to provide this clearance, the Installation Team will need to discuss alternatives.



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|  Partners Pharmacy | Title: Field Service, PassPort Installation Requirements, 230 | Part Number: 7800-0004-0042 |
| | Revision: F | Page 2 of 5 |

Total Minimum Floor Space Required 119" x 92.5 "

Floor Loading

The PassPort weighs approximately 1200 pounds without drugs loaded into it. For any devices installed above the 1st floor, the facility's engineer will need to verify that the floor will support the weight of the PassPort prior to installation

Electrical Power for the Unit

The main power supply in the PassPort requires a 110 volt/20 amp dedicated power feed from the emergency power generator distribution box. At its peak, the PassPort uses approximately 1.72kw, 2.3 hp, or 15 amps.

The emergency power outlet for the machine should be a Red dual outlet and located directly behind the proposed position for the PassPort. There should also be regular dual outlet power located behind the passport for auxiliary equipment.

A location for the printer and the camera will need to be identified by the Pharmacy Installation Team. A power outlet will need to be available for the printer.

The PassPort has an internal UPS that will:

- Run for approx. eight minutes of a power outage to eliminate the effect of short power glitches.
- Smooth over the spikes and brownouts during transition to the emergency backup power.
- Finish packaging any envelope already in process and shut it down when no emergency power exists.

Temperature and Humidity

During operation, the Passport generates between 2,000 and 2,200 BTUs of heat. Adequate air conditioning and ventilation is needed to maintain a room temperature of 74 °F. This will guarantee that the medications inside the PassPort are maintained at less than 78 °F and the overall mechanical operation of the PassPort is not affected. The relative humidity shall be between 40-60%. At least one 12" air conditioning supply and one 12" return is needed for a normal sized med room.

Heat Ventilation

The Vacuum Box Assembly within the Passport machine generates heat from the internal vacuum pumps. This heat is vented from the back of the machine. It is critical to provide a method to venting this heat from the med room. The heat from the Passport can either be vented via an outlet in an outside wall or the ceiling plenum.

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| Policy & Procedure  PartnersPharmacy | Title: Field Service, PassPort Installation Requirements, 230 | Part Number: 7800-0004-0042 |
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A dryer vent box can be mounted in an outside wall within the med room or in the drop ceiling grid if one exists. The Passport vent port is then attached to the dryer vent box using a flexible vent hose and clamps.

Lighting

For ease of use, place the PassPort in a well-lit area. It is essential that the user have the ability to see both the screen and keyboard clearly while operating the PassPort. Pharmacy recommends placing the PassPort so that at least one 4 ft. bank of fluorescent lights is above and slightly to the front of the machine (or equivalent illumination).

The lens cover should not be stained, yellowed or otherwise preventing light from shining thru.

Internet Data Card Signal Strength

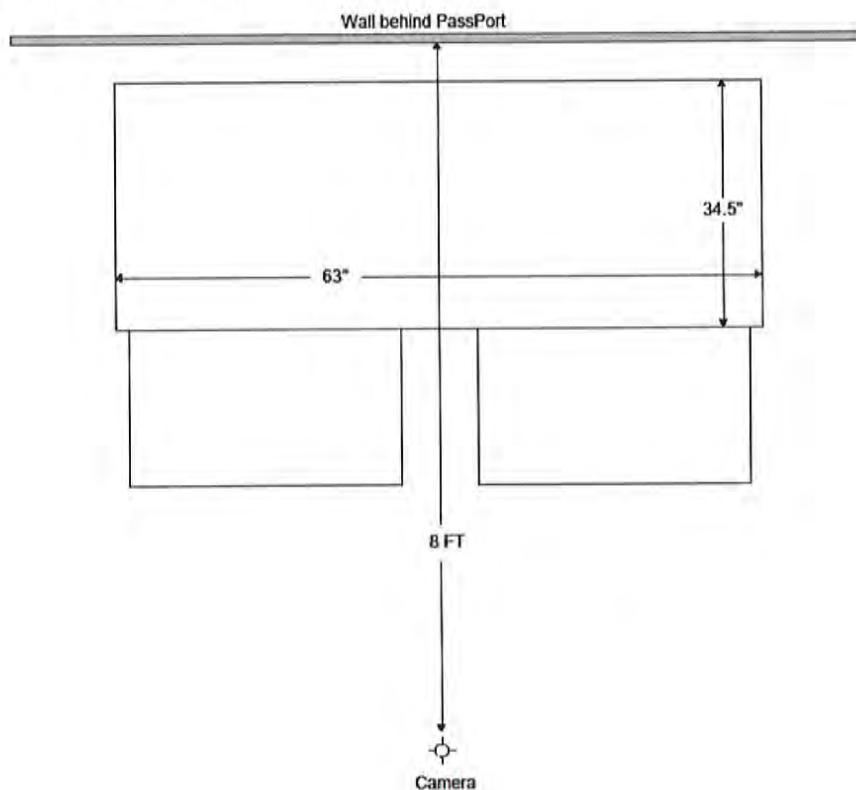
The Pharmacy Installation team will perform internet connectivity tests using Pharmacy provided internet data cards. Sufficient internet data card signal strength is required to ensure an acceptable data transfer between Passport and the Pharmacy Call Center.

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Camera Installation

The Camera will be installed in a location that allows viewing of the front of the PassPort and in particular the array doors. The following shall suffice:

- The camera should be installed on the ceiling approximately 8 feet from the wall behind the PassPort and centered on the PassPort. This allows the camera to see the UI monitor, the End User, Array doors, bulk drawers, Med tote door as well as the Printer and EHS areas. A network cable runs from the camera to the IO board behind the PassPort. This provides power and data to the camera. The maximum length for this cable is 330 ft.



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|  Partners Pharmacy | Title: Field Service, PassPort Installation Requirements, 230 | Part Number: 7800-0004-0042 |
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Consumables, Medcart and Spare Parts Storage

Identify a storage area for consumables such as envelopes, labels and printer ribbons. If needed identify a storage area for medcarts. It will be desirable to store PassPort spare parts in a secured storage area if available. The Pharmacy Installation Team will discuss spare parts storage requirements and how to access the secured site.

Overview of Facilities Regulations for Vendors. The Pharmacy Installation Team will require a review of the facilities policies for vendors especially after normal visiting hours. Any requirements such as ID badges, prior arrival notification, visitors sign-in book, etc. shall be identified during the site-survey meeting.



Colonial Behavioral Health

SERVING JAMES CITY COUNTY, CITY OF POQUOSON, CITY OF WILLIAMSBURG AND YORK COUNTY

Date: July 9, 2024

Request for Proposal (RFP): A240325

Addendum Number: Three

Service: Crisis Services Center

Final Question(s):

1. Please confirm that we should be tying into public water and sewer along Ironbound Road (as noted per our conversations with JCSA directly) and not into the existing private Eastern State water and sewer which is located closest to the building.

You are correct. ESH is considered private, and we should be using public water and sewer along Ironbound Road instead.

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Kisha Young, MBA, VCA
General Services Officer
Kyoung@colonialbh.org

Sign _____
07/11/2024

Date _____