



ADDENDUM NO. 4
DTCC George Campus East Building Expansion Bid Pack D
Page 1

September 28, 2020

ATTENTION: The Bid Due and Bid Opening Date for ALL Bid Pack D contracts is still Tuesday October 6, 2020 at 2:00PM. Bids will be received in person at DTCC George Campus South East Building Lobby from 12:00Noon to 2:00PM on Tuesday, October 6, 2020. A live bid opening will be streamed via Zoom at 2PM Tuesday, October 6, 2020. Log in information for the live stream is below.

Join Zoom Meeting

<https://dtcc.zoom.us/j/98277874443?pwd=bjRTT0pWQ3ZDWnozYTlvQTd3WEw0QT09>

Meeting ID: 982 7787 4443

Passcode: 775677

One tap mobile

+13017158592,,98277874443# US (Germantown) 13126266799,,98277874443# US

+(Chicago)

Dial by your location

+1 301 715 8592 US (Germantown)

+1 929 436 2866 US (New York)

Meeting ID: 982 7787 4443

Find your local number: <https://dtcc.zoom.us/j/98277874443>

Join by SIP

98277874443@zoomcrc.com

Join by H.323

162.255.36.11 (US East)

Meeting ID: 982 7787 4443

Passcode: 775677

NOTICE: Attach this addendum to the project manual for this project. It modifies and becomes a part of the contract documents. Work or materials not specifically mentioned herein are to be described in the main body of the specifications and as shown on the drawings. Bidders shall acknowledge receipt of this addendum on the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification.

The contract design documents & Bid Documents (Front End, Drawings & Specs) for the above referenced project, dated June 11th, 2020 are amended as follows:





ATTACHMENTS

- Addendum No.4 – Tetra Tech
- Delaware Craft Training List for Bidding Purposes
- Substitution Request – Martin & Smith, Inc.
- Substitution Request – Phenolic Core Toilet Compartments
- Substitution Request – Variable Refrigerant Flow (VRF) System
- DTCC SSC BPD RFI Log 09.28.20
- DTCC George Campus East Bldg. – SSC Bid Pack D Specification Addendum No. 4
- DTCC George Campus East Bldg. – SSC Bid Pack D Drawings Addendum No. 4

End of Addendum No. 4





240 Continental Drive
Suite 200
Newark, Delaware 19713
Tel. (302) 738-7551
Fax (302) 454-5980

Addendum No. 4

Delaware Technical Community College (DTCC)
George Campus – East Bldg. – Student Success Center
Bid Pack ‘D’ - Interior
Wilmington, Delaware
Tt Project No. 200-35157-19002

Addendum No. 04
to
Drawings and Project Manual

September 24, 2020

To: ALL BIDDERS

This ADDENDUM forms a part of the BIDDING AND CONTRACT DOCUMENTS and modifies the following documents:

Original DRAWINGS dated July 24, 2020
PROJECT MANUAL dated July 24, 2020
Addendum #3 dated September 14, 2020

Acknowledge receipt of the ADDENDUM in the space provided on the FORM OF PROPOSAL

This ADDENDUM consists of three (3) pages and the following:

4.1 PROJECT MANUAL MODIFICATIONS

- 4.1.1 Section 23 09 50a; Building Automation System (BAS) General – Base Bid
 - 4.1.1.1 **REPLACE** existing Spec Section with the **REVISED** one attached to this addendum.
- 4.1.2 Section 23 09 50b; Building Automation System (BAS) General – Alternate
 - 4.1.2.1 Article 1.12 Warranty Maintenance; Paragraph A **CHANGE** “(a warranty period)” to read “2 years”.
- 4.1.3 Section 08 71 00; Door Hardware
 - 4.1.3.1 **REPLACE** existing Spec Section with the **REVISED** one attached to this addendum.
- 4.1.4 Section 05 52 00; Aluminum Railings
 - REPLACE** existing Spec Section with the **REVISED** one attached to this addendum.

4.2 **DRAWING MODIFICATIONS:**

- 4.2.1 Sheet A-100; Lower Level Floor Plan
 - 4.2.1.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.2 Sheet A-601; Door Schedule, Door/Frame Types
 - 4.2.2.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.3 Sheet E-100; Lower Level Lighting Plan – New Work
 - 4.2.3.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.4 Sheet E-110; First Floor Lighting Plan – New Work
 - 4.2.4.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.5 Sheet E-200; Lower Level Power Plan – New Work
 - 4.2.5.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.6 Sheet E-604; Electrical Schedules
 - 4.2.6.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.7 Sheet T-000; TECHNOLOGY SYMBOLS AND NOTES
 - 4.2.7.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.8 Sheet T-500; TELECOM WIRING
 - 4.2.8.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.9 Sheet T-501; TELECOM ROOM DETAILS
 - 4.2.9.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.10 Sheet T-502; PATHWAYS
 - 4.2.10.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.11 Sheet T-503; FACEPLATES AND WIRING
 - 4.2.11.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.12 Sheet TY-000; SECURITY SYMBOLS AND NOTES
 - 4.2.12.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.13 Sheet TY-100; LOWER LEVEL SECURITY PLAN
 - 4.2.13.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.14 Sheet TY-500; ACCESS AND INTRUSION SYSTEM
 - 4.2.14.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.15 Sheet TY-501; CCTV SYSTEM
 - 4.2.15.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.
- 4.2.16 Sheet E-602; ELECTRICAL SCHEDULES
 - 4.2.16.1 **REPLACE** this drawing in its entirety with the **REVISED** one attached to this addendum.

4.3 **QUESTIONS/CLARIFICATIONS:**

- 4.3.1 See attached RFI Log for all questions.

4.4 **SUBSTITUTION REQUESTS**

4.4.1 Union Wholesale Co.; Substitution Request for Phenolic Core Toilet Compartments

4.4.1.1 Requesting the following be approved as a Substitution:

Item: Phenolic Core Toilet Compartments

Spec Section: 10 21 13.17

Substitution Request: General Partitions,

Model No.: Series-30 Solid Phenolic Core (Eastern Max)

ATTACHMENTS

RFI Log: Questions & Responses

Spec Section 23 09 50a; Building Automation System (BAS) General – Base Bid

Spec Section 08 71 00; Door Hardware

Spec Section 05 52 00; Aluminum Railings

A-100

A-601

E-100

E-110

E-200

E-604

T-000

T-500

T-501

T-502

T-503

TY-000

TY-100

TY-500

TY-501

E-602

Phenolic Core Toilet Compartments Substitution Request – General Partitions

END OF ADDENDUM No. 4

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CONTACT US

(302) 761-8328

apprenticeship@delaware.gov

de.gov/apprenticeship

DELAWARE CRAFT TRAINING LIST FOR BIDDING PURPOSES

This list is intended for employers who are required to meet the craft training requirement in accordance with Title 29, Chapter 69, Section 6962(d)(13) of the Delaware Code.

Occupation (Craft)	Occupational Code (O*Net)
Carpentry	47-2031.01
Construction Laborer	47-2061.00
Electrician	47-2111.00
Electronic Systems Technician	49-2098.00
Heavy Equipment Operator	47-2073.00
HVAC	49-9021.01
Maintenance Mechanic	49-9041.00
Iron Worker	47-2221.00
Machinist	51-4041.00
Plumbing	47-2152.01
Pipe Fitting	47-2152.01
Sheet Metal	47-2211.00
Sprinkler Fitter	47-2152.01
Welding	51-4121.06
Millwright	49-9044.00

Note: This list does not represent all Registered Apprenticeship programs in Delaware.

For more information about the listed occupations and corresponding code, visit

<https://www.onetonline.org/>



MARTIN & SMITH, INC.

MANUFACTURERS REPRESENTATIVE

11 VINCENT CIRCLE · IVYLAND, PENNSYLVANIA 18974
 800-833-0545 · 215-956-9100 · Fax : 215-956-9765
www.msrep.com



American Standard is a leading manufacturer of bath and kitchen products. The Company participates in all key product categories including bathroom and kitchen faucets, fixtures and furniture with leading positions in toilets and bathroom fixtures. www.americanstandard-us.com



DXV by American Standard, a luxury portfolio of meticulously crafted bathroom & kitchen fixtures and faucets that celebrate and re-imagine the most influential design movements of the past 150 years. www.d xv.com



GROHE AMERICA, INC.
 Quality: German perfectionism inspires ultimate customer confidence. Technology: Mastering water through technology. Design: Signature elements styled to perfection. www.grohe.us

(S)  Fiat Products has led the way in the plumbing industry in the design, development and manufacture of an impressive variety of acrylic bathing and shower modules as well as terrazzo and molded stone mop sinks and shower bases. www.fiatproducts.com



For over twenty years, ProSet has been manufacturing "Firestopping Penetrators". They are state-of-the-art sleeving systems that automatically fire-stop pipes passing through fire-rated floors and walls. Proset also offers "Trapguard" waterless trap primers. www.proventsystems.com



VACUUM PLUMBING SYSTEMS

AcornVac Plumbing where you need it, when you need it. We specialize in vacuum Plumbing solutions for: Hospitals and Medical Facilities, Prison, Jails & Correctional Facilities, Schools & Universities, Grocery Stores & Retail Warehouses. www.acornvac.com

(S)  Setting the Standards for Engineered Plumbing Drainage Products since 1926 their products include water closet supports, lavatory and sink supports, roof drains, floor drains, sanitary floor area & indirect waste receptors, cleanouts & access covers, hydrants, interceptors, stainless steel & carbon steel products. www.jrsmith.com

(S)  Jay R. Smith offers a full line of Polymer Concrete, Fiberglass and Polypropylene trench drain systems with a variety of grate styles to meet any applications needs. www.jrsmith.com

(S)  JRS Products for light commercial and design-built projects. Products include roof drains, floor drains and accessories, sanitary floor sinks, cleanouts and accessories, water hammer arresters and hydrants, backwater valves, traps and interceptors. www.jrsmith.com



Charlotte Pipe And Foundry Co. was founded in 1901 and has grown into the largest producer of cast iron and plastic pipe and fittings in America. They are the best and most reliable source for cast iron soil pipe and fittings that are approved by the Cast Iron Soil Pipe Institute (CISPI). Charlotte Pipe is a leader in the production of PVC, ABS and CPVC pipe and fittings for plumbing and Industrial systems. www.charlottepipe.com

(S) STOCKED at MARTIN & SMITH



Acorn is the source for high security vandal resistant toilets, lavatories, showers and Penal Ware combination lav\toilets. Acorn also offers a wide variety of products such as stainless steel showers along with washfountains, lavatory systems and ligature resistant products made from a range of materials including stainless steel, terrazzo and solid surfaces. www.acorneng.com



(S) Acorn Controls. Utilizing Acorn's 60 years of experience providing safe showers for schools, prisons, health clubs and office buildings, the Acorn Controls division represents a new line of safe showering and tempering products designed for the most challenging demands of all commercial, multi-family residential and industrial facilities. www.acorneng.com



(S) Acorn Safety is a full line of eyewashes, eye / face washes, emergency drench showers, combination showers, emergency drench hoses and mixing valves which further complement products from the Acorn Family of Companies. www.acornsafety.com



Neo-Metro by Acorn
Inspiring Designs For Over 20 Years The Neo Metro solution minimizes Wear-and-tear, using high quality materials such as stainless steel, cast resin and cast bio-solid surface materials to manufacture a sleek and refined product. www.neo-metro.com



Murdock is poised to become the leading manufacturer of traditional drinking fountains, contemporary drinking fountains, water coolers with optional bottle fillers for schools, office building and institutions. www.murdockmfg.com



Shower systems, solid surface shower floors and walls, integral trench drain. Healthcare, Institutional, Senior Care. www.comfortdesignsbathware.com



A Division of Acorn Eng., Whitehall Manufacturing provides the health care and rehabilitation industries with in-room patient care units and toilets, surgical scrub sinks, and physical therapy/sports medicine products that are unsurpassed in quality, function and durability. Our top concern at Whitehall is in helping you ensure quality patient care and rehabilitation. www.whitehallmfg.com



The BestCare line of products:

Best Care Behavioral Healthcare and Ligature Resistant products are of the highest quality and will suit any hospitals needs. www.whitehallmfg.com



(S) Chronomite Laboratories has been the innovative leader in providing solutions for commercial and industrial instantaneous tankless electric water heater applications since 1966. www.chronomite.com



(S) Five decades of experience and innovative engineering have enabled Elmdor to become a well established high volume, low cost producer of drywall and fire rated access doors as well as a variety of roof flashing assemblies. www.elmdorstoneman.com



www.msrep.com

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SUBSTITUTION REQUEST (During the Bidding Phase)

Project: Delaware Technical Community College
George Campus - Student Success Center
To: Tetra Tech, Newark, DE
Re: Product equal to quality and performance
Substitution Request Number:
From: Linda Howarth / Union Wholesale Company
Date: 08-14-2020
A/E Project Number: 200-35157-19002
Contract For: Expansion Bid Pack D

Specification Title: Phenolic-Core Toilet Compartments
Section: 102113.17 Page: 3
Description: Toilet compartments
Article/Paragraph: Paragraph 2.2

Proposed Substitution: General Partitions
Manufacturer: General Partitions Mfg. Co. Address: 1702 Pensinsula Drive, Erie, PA Phone: 814-833-1154
Trade Name: General Partitions Mfg. Co. Model No.: Series-30 Solid Phenolic Core (Eastern Max)

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
Same warranty will be furnished for proposed substitution as for specified product.
Same maintenance service and source of replacement parts, as applicable, is available.
Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
Proposed substitution does not affect dimensions and functional clearances.
Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

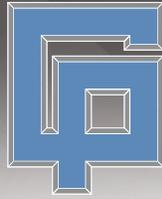
Submitted by: Linda Howarth
Signed by:
Firm: Union Wholesale Company
Address: 500 East Front Street
Wilmington, DE 19801
Telephone: 302-656-4462

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01330.
Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
Substitution rejected - Use specified materials.
Substitution Request received too late - Use specified materials.

Signed by: Date:

Supporting Data Attached: Drawings X Product Data Samples Tests Reports



**GENERAL
PARTITIONS** *Mfg. Corp.*
GENERALPARTITIONS.COM

The Ultimate in Privacy

FEATURED PRODUCT

OUR EASTERN MAX STYLE OFFERS UP TO 72" HIGH
DOORS AND PANELS FOR MAXIMUM PRIVACY.



ADVANTAGES

- ▶ A leader in the industry with **over 60 years of experience**, offering the largest selection of partitions in the industry, with 4 different styles, and 9 different material options.
- ▶ **USA Made**—All of our products are proudly manufactured in Erie, PA U.S.A.
- ▶ **Outstanding customer service** since its inception—**second to none!**
- ▶ Shipping schedules you can depend on—98% of all orders shipped within one day of the schedule date – And most on time or sooner.
- ▶ Our shipments arrive to you safely with our cellular poly crate, which has proven to reduce freight damage. Statistically, **99%** of the steel orders arrived to the job site **damage-free**.
- ▶ Express ship allows your orders to ship as quick as **2 working days**.
- ▶ Use of TORX head fasteners with pin to prevent theft and vandalism.
- ▶ Barrier free design and operational handles to meet ADA requirements.
- ▶ Green Materials

PROJECTS THAT WE ARE PROUD TO BE PART OF



Fort Benning

Series 40-3

Fort Knox

Series 40-7

PNC Ballpark

280
Compartments:
of Series 40
floor mounted/
overhead braced.
Material: Powder
Coated Steel

Pentagon Wedge 1

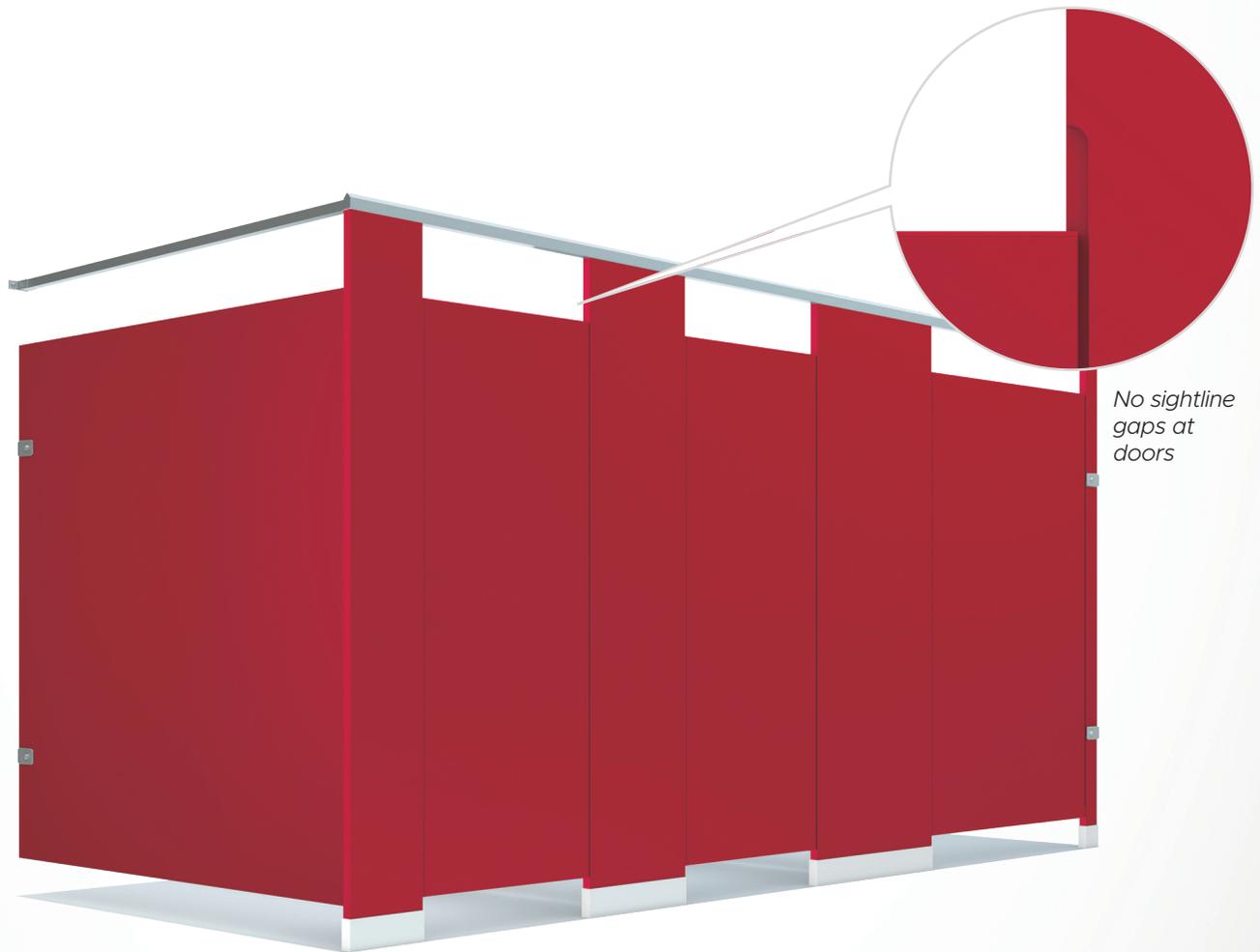
240
Compartments: of
Series 40 floor
mounted/overhead
braced
Material: Solid
Phenolic Core

Boston Convention Center

250 Compartments:
Series 60
floor to ceiling.
Material: Stainless
Steel

Estadio-Chavis: Chivas Soccer Stadium—Guadalajara

680
Compartments: Combination
of 40 and 50 floor mounted/
overhead braced, and ceiling
hung.
Material: Anti-Graffiti Powder
Coated Steel, Stainless Steel
and Solid Phenolic Core



EASTERN STYLE

When increased privacy is required **“Eastern style” is an option that can be incorporated into any of our partition series and materials.** Panels and doors are specified as 67” high and mounted 3-1/2” off of the floor.

EASTERN MAX STYLE

Eastern Max Style can be incorporated into any series and material of partitions when maximum privacy is required. Panels and doors are specified as 72” high and mounted 3-1/2” off of the floor. Continuous brackets and no-sight door options to minimize any sight gaps are available as add-ons to either Eastern Style.

FEATURES

- ▶ 67” or 72” high doors and panels
- ▶ Mounted 3-1/2” off the floor

OPTIONAL

- ▶ Continuous brackets / hinges
- ▶ No sightline gaps at doors
- ▶ Indicator latches

SOLID PHENOLIC CORE



General's S.P.C. toilet partitions, showers and dressing compartments are fabricated of solid phenolic core with matte finish high pressure melamine fusion welded to surface of core to form a one piece unit which will not delaminate, edges are black solid phenolic resin. Resists moisture, scratches and abrasion. SPC panels provide exceptional chemical and stain resistance combined with superior impact resistance.

Express shipment will ship in 2 working days—some restrictions apply. Our complete color chart is available upon request.



D30-60 Natural Almond	D381-60 Fashion Grey	4142-60 Grey Glace	D427-60 Linen	4623-60 Graphite Nebula	4669-60 Natural Tigris

4924-60 White Carrara	4965-60 Basket Weaving 101	D439-60 Wallaby	2932-60 Almond Leather	4830-60 Satin Stainless	4843-60 Misted Zephyr	4779-60 Pewter Brush	4886-60 Pearl Soapstone	8204-60 Weathered Char
4878-60 Pewter Mesh	4882-60 Oiled Soapstone	4595-60 Bahia Granite	1595-60 Black	4811-60 Silicon EV	7939-60 Blond Echo	4909-60 Ginseng Tea	4994-60 Fired Steel	4883-38 Sable Soapstone



- ▶ NSF & SFI Certified
- ▶ GreenGuard Gold Certified
- ▶ May contribute to LEED Certification



COLOR-THRU SOLID PHENOLIC CORE

Color-Thru Solid Phenolic Core Panels offer all the strength and durability of our black core phenolic, with the added advantage of consistent matching color throughout the core, forming a one piece panel, making it the perfect choice for high traffic areas. The Color-Thru Phenolic carries all the same specs and hardware as our standard black core SPC.



COLOR THROUGHOUT



STANDARD PRODUCT HIGHLIGHTS

- ▶ GreenGuard Gold Certified
- ▶ Core color extends all the way through the product
- ▶ All 15 colors made in USA
- ▶ Resists moisture, scratches, and abrasions

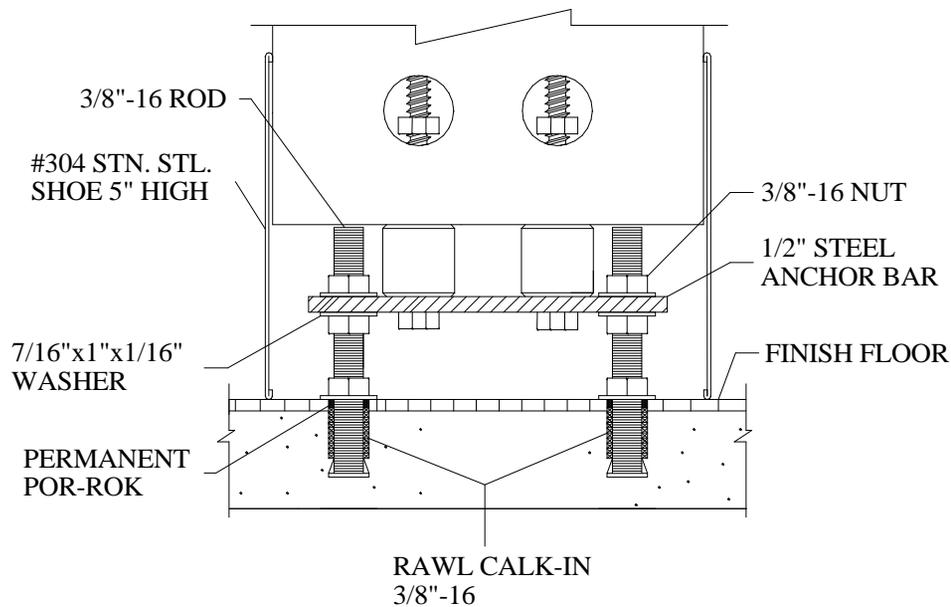
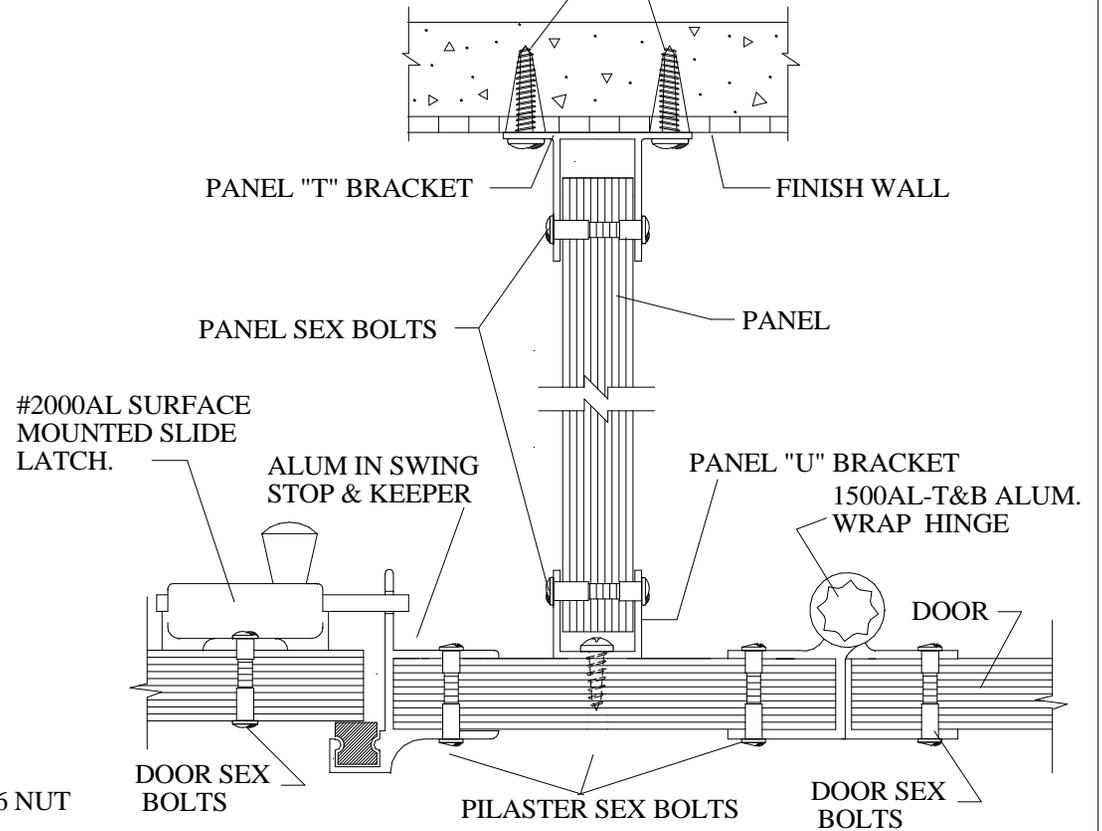
ADVANTAGES

Toilet Partitions offering all of the dependability of Phenolic, but adds the advantage of being color consistent throughout the thickness of the partition.

15 NEW COLORS

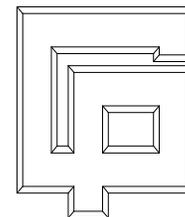
STANDARD COLORS								
	4990 Flax Linen	D50 Khaki Brown	D92 Dove Grey	4981 Calacatta Oro	4887 Tan Soapstone	4991 Pressed Linen	4886 Pearl Soapstone	D30 Natural Almond
PREMIUM COLORS								
	8203 Silver Oak Ply	4860 Silver Alchemy	8212 Phantom ECRU	8202 Light Oak Ply	7967 Park Elm	7970 High Line	7999 Field Elm	

#12 X 2" STAINLESS STEEL
TORX SCREWS WITH ANCHOR PLUGS



30-6 FLOOR CONNECTION

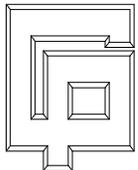
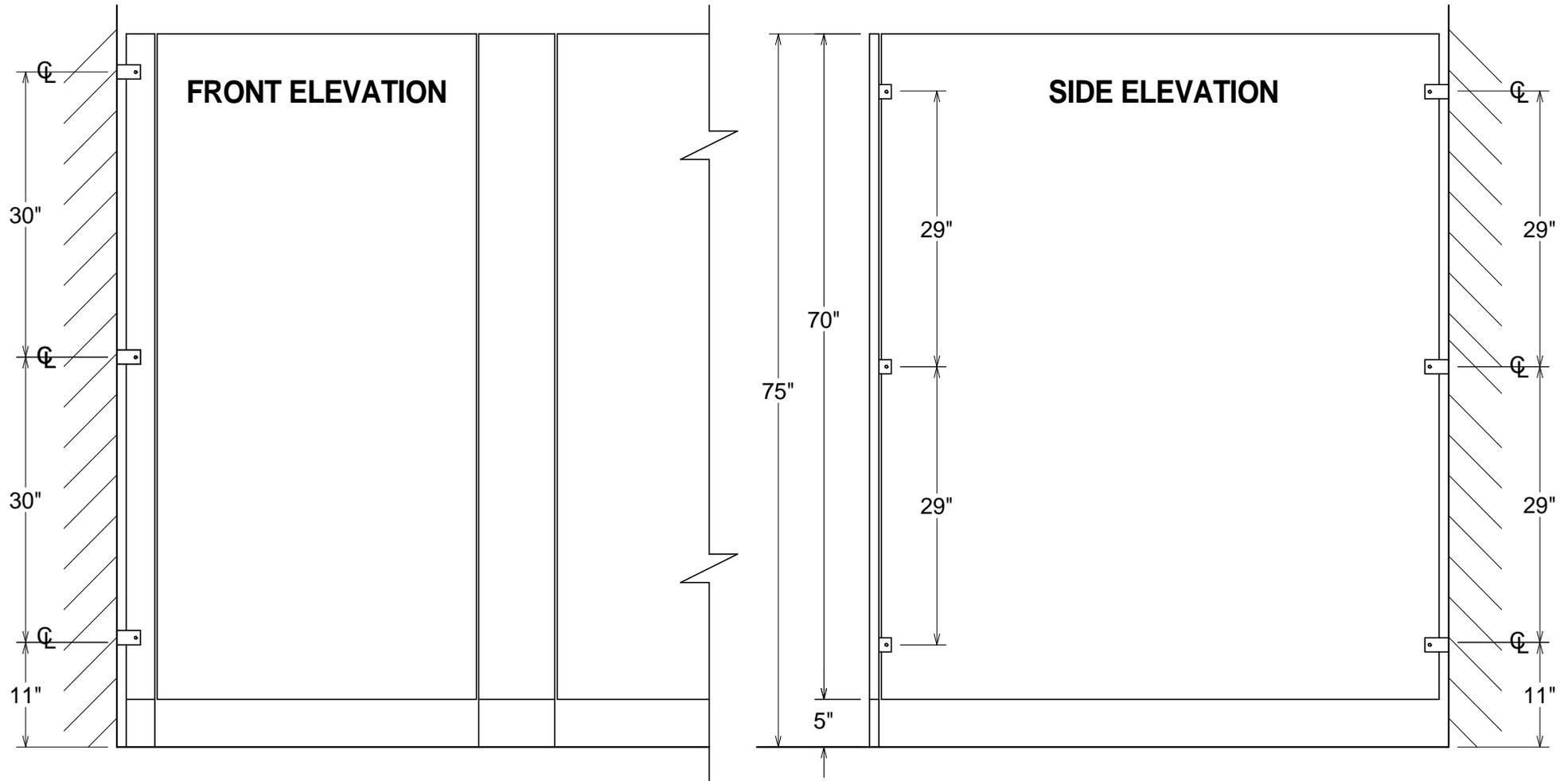
SERIES 30-6 CONSTRUCTION DETAILS



GENERAL PARTITIONS Mfg. Corp.

1702 Peninsula Drive, Erie PA
P.O. Box 8370, Erie, PA 16505-0370
Phone (814) 833-1154 FAX (814) 838-3473

SOLID PHENOLIC CORE (EASTERN MAX)



GENERAL PARTITIONS Mfg. Corp.
1702 Peninsula Drive, Erie PA
P.O. Box 8370, Erie, PA 16505-0370
Phone (814) 833-1154 FAX (814) 838-3473

SERIES 30 - TYPICAL ELEVATION
BACKING POINTS FOR OTHER THAN MASONRY WALLS INDICATED
ALUMINUM HARDWARE - 70" HIGH PANELS & DOORS



SECTION 10 21 00
COMPARTMENTS AND CUBICLES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Compartments and Cubicles of the Following Types:
 - 1. Solid phenolic compartments and cubicles.

1.2 RELATED SECTIONS

- A. Section 05 50 00 - Metal Fabrications.
- B. Section 06 11 16 - Mechanically Graded Lumber.
- C. Section 09 27 00 - Plaster Fabrications..
- D. Section 10 28 00 - Toilet, Bath, and Laundry Accessories.
- E. Section 22 40 00 - Plumbing Fixtures.

1.3 REFERENCES

- A. ADA - Americans with Disabilities (ADA) Standards for Accessible Design.
- B. ANSI A117.1 - American National Standard for Buildings and Facilities - Providing Accessibility and Usability for Physically Handicapped People.
- C. ANSI A208.1 - Mat Formed Wood Particleboard.
- D. ASTM International (ASTM)
 - 1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 2. ASTM A666 - Stainless and Heat Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - 3. ASTM A526 - Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Commercial Quality.
- E. NEMA LD-3 - High Pressure Decorative Laminates.
- F. UFAS - Uniform Federal Accessibility Standards.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Literature indicating typical panel, pilaster, door, hardware and fastening.
 - 2. Preparation instructions and recommendations. Storage and handling requirements and recommendations.

3. Installation methods. Maintenance instructions.
- C. Shop Drawings: Dimensioned plans indicating layout of toilet partitions. Dimensioned elevations indicating heights of doors, pilasters, separation partitions, and other components; indicate locations and sizes of openings in compartment separation partitions for toilet and bath accessories to be installed in partitions; indicate floor and ceiling clearances. Details indicating anchoring components (bolt layouts) and methods for project conditions; indicate components required for installation, but not supplied by compartment and cubicle manufacturer.
 - D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, texture and pattern.
- 1.5 DELIVERY, STORAGE, AND HANDLING
- A. Store products in manufacturer's unopened packaging until ready for installation.
 - B. Lay cartons flat, with adequate support to ensure flatness and to prevent damage to pre-finished surfaces. Do not store where ambient temperature exceeds 120 degrees F (49 degrees C).
- 1.6 PROJECT CONDITIONS
- A. Do not deliver materials or begin installation until building is enclosed, with complete protection from outside weather, and building temperature maintained at a minimum of 60 degrees F (15.6 degrees C).
- 1.7 QUALITY ASSURANCE
- A. Products and installation shall comply with the following: ADA Standards, ANSI A117.1, UFAS as applicable to the Project.
 - B. Coordinate Work with placement of support framing and anchors in walls and ceilings.
- 1.8 WARRANTY
- A. Manufacturer's Warranty for Partitions: Provide manufacturer's standard limited warranty and as follows.
 1. Solid Phenolic Core Partitions: 15 years.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: General Partitions Mfg. Corp., which is located at: 1702 Peninsula Dr. P. O. Box 8370; Erie, PA 16505; Tel: 814-833-1154; Fax: 814-838-3473; Email:[request info \(info@generalpartitions.com\)](mailto:requestinfo@generalpartitions.com); Web:<https://www.generalpartitions.com>
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 SOLID PHENOLIC UNITS

- A. Construction: Solid phenolic panels: Solid phenolic core of multiple layers of phenolic resin impregnated Kraft paper compressed under heat and pressure. Face with high pressure melamine sheet fusion welded to surface of core. Resistant to delamination, water, steam,

corrosion, soaps, detergents, and mildew. Edges: Solid phenolic resin, to match face sheets radiused and polished. Fire Resistance per ASTM E84: Class A; 025 maximum flame spread and 100 maximum smoke development.

2.3 FITTINGS AND ANCHORS

- A. Fittings:
 - 1. Pilaster Trim: Minimum 3 inches high 0.031 inch thick (76 mm by 0.76 mm thick) stainless steel shoe.

2.4 HARDWARE

- A. Combination Latch Keeper and Door Stop with Rubber Bumper: Extruded aluminum, cast alloy, chrome plated or Cast Stainless

PART 3 EXECUTION

3.1 INSTALLATION

- A. Examine existing conditions prior to installation. Do not begin installation until installation conditions and substrates have been properly prepared.
- B. Install compartments and cubicles in accordance with manufacturer's instructions and approved submittals. Pilasters intersecting adjacent walls shall extend to finished floor. Attach panels and pilasters to brackets with sheet metal screws.
- C. Door Installation: Hang doors from pilasters. Equip each door with the following:
 - 1. Door latch.
 - 2. Door strike and keeper.
- D. Erection Tolerances: Maximum variation from true position: 1/4 inch (6 mm). Maximum variation from plumb: 1/8 inch (3 mm).

3.2 ADJUSTING AND CLEANING

- A. Carefully remove and dispose all protective vinyl from partitions.
- B. Adjust hinges and align hardware to uniform clearance at vertical edge of doors.
- C. Clean surfaces and wash with mild soap. Do not use abrasives.

END OF SECTION



Date: August 11, 2020

To: Ralph Degli Obizzi & Sons, Inc.
Wilmington, DE

Attention: Anthony Degli Obizzi

Subject: DTCC George Campus – East Bldg.
Request for Approved Equal Substitution

Mechanical
Engineer: Tetra Tech

We are requesting that the following equipment be added as an approved equal:

ITEM: Variable Refrigerant Flow (VRF) System
TAG: CU/AC-1 thru 3; CU/AC-S1 thru S4
SPEC SECTION: Section 23 63 13 & 23 82 19
SUBSTITUTION REQUEST: Samsung

Attached is our supporting documentation showing equal or better performance to the scheduled equipment. Thank you for your consideration. Please call if you need any additional information.

Sincerely,

Grant K Haskins

SAMSUNG

Project Report

DTCC George Campus East Bldg

2020-08-11



1. Total Load Profile

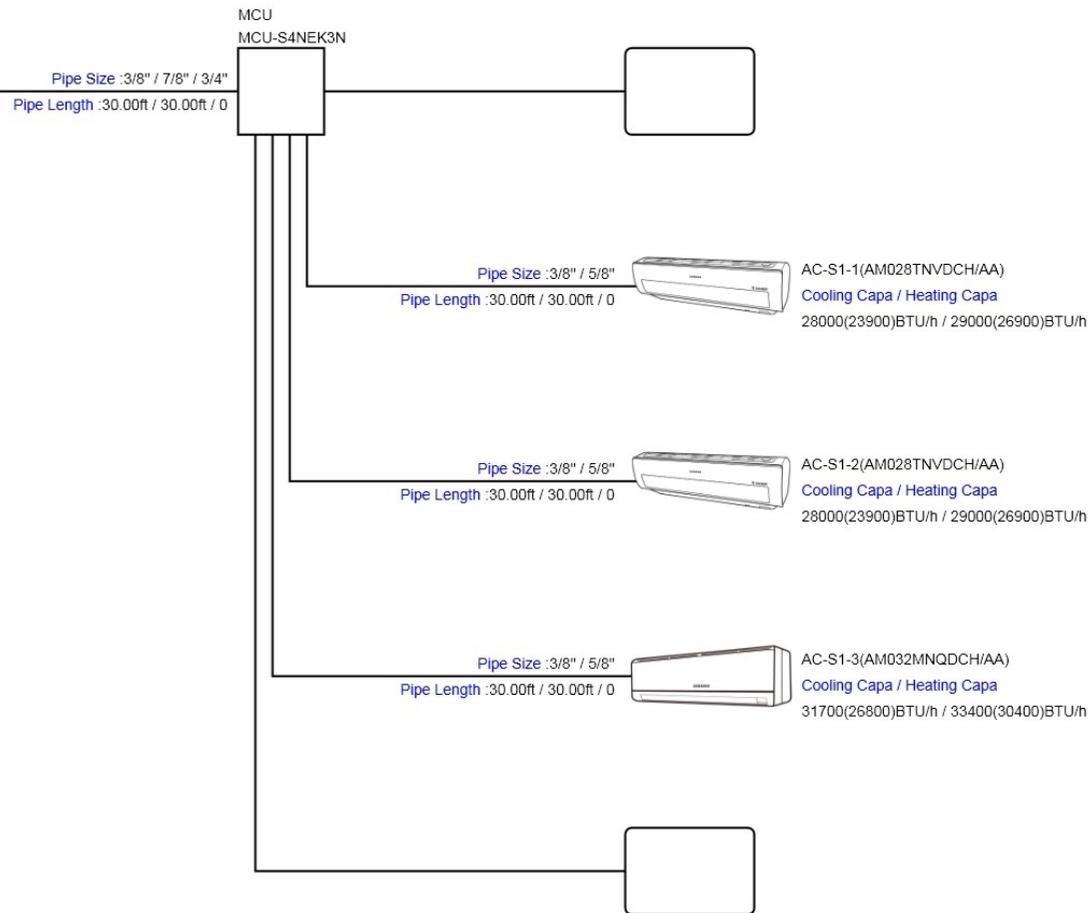
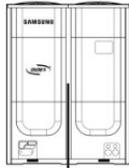
1.1 Building1

Dept	Fl	Room	Area		Load per unit area		Load			Sum of capacity			Model	Qty	Nominal Capacity			Outdoor	Model	Nominal Capacity		Combi. Ratio						
			CAD	SALES	Cooling	Heating	Cooling		Heating	Cooling		Heating			Cooling	Heating	Cooling			Heating	TC	SHC	TC	Cooling	Heating	Cooling	Heating	
							TC	SHC	TC	TC	SHC	TC																
							TC	SHC	TC	TC	SHC	TC																
sq ft	sq ft	BTU/h/sq ft	BTU/h/sq ft	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	%	%								
Building1	4F									386800	236400	407600	AM032MNQDCH/A	1	31700	21500	33400	CU-S1	AM096FXVAFR2AA	96000	108000	91	85					
	2F		AM028TNVDCH/AA	1	28000	18800	29000																					
	B1		AM028TNVDCH/AA	1	28000	18800	29000																					
	4F																	CU-S2	AM096FXVAFR2AA	96000	108000	91	85					
	2F		AM028TNVDCH/AA	1	28000	18800	29000																					
	B1		AM028TNVDCH/AA	1	28000	18800	29000																					
	4F																	CU-S3	AM096FXVAFR2AA	96000	108000	91	85					
	2F		AM032MNQDCH/A	1	31700	21500	33400																					
	B1		AM028TNVDCH/AA	1	28000	18800	29000																					
	4F																	CU-S4	AM096FXVAFR2AA	96000	108000	91	85					
	2F		AM032MNQDCH/A	1	31700	21500	33400																					
	B1		AM028TNVDCH/AA	1	28000	18800	29000																					
	4F																	AC012MNADCH/A	1	12000	0	14000	CU-1	AC012KXADCH/AA	12000	14000		
																		AC012MNADCH/A	1	12000	0	14000	CU-2	AC012KXADCH/AA	12000	14000		
													AC012MNADCH/A	1	12000	0	14000	CU-3	AC012KXADCH/AA	12000	14000							



2.1.4 Piping

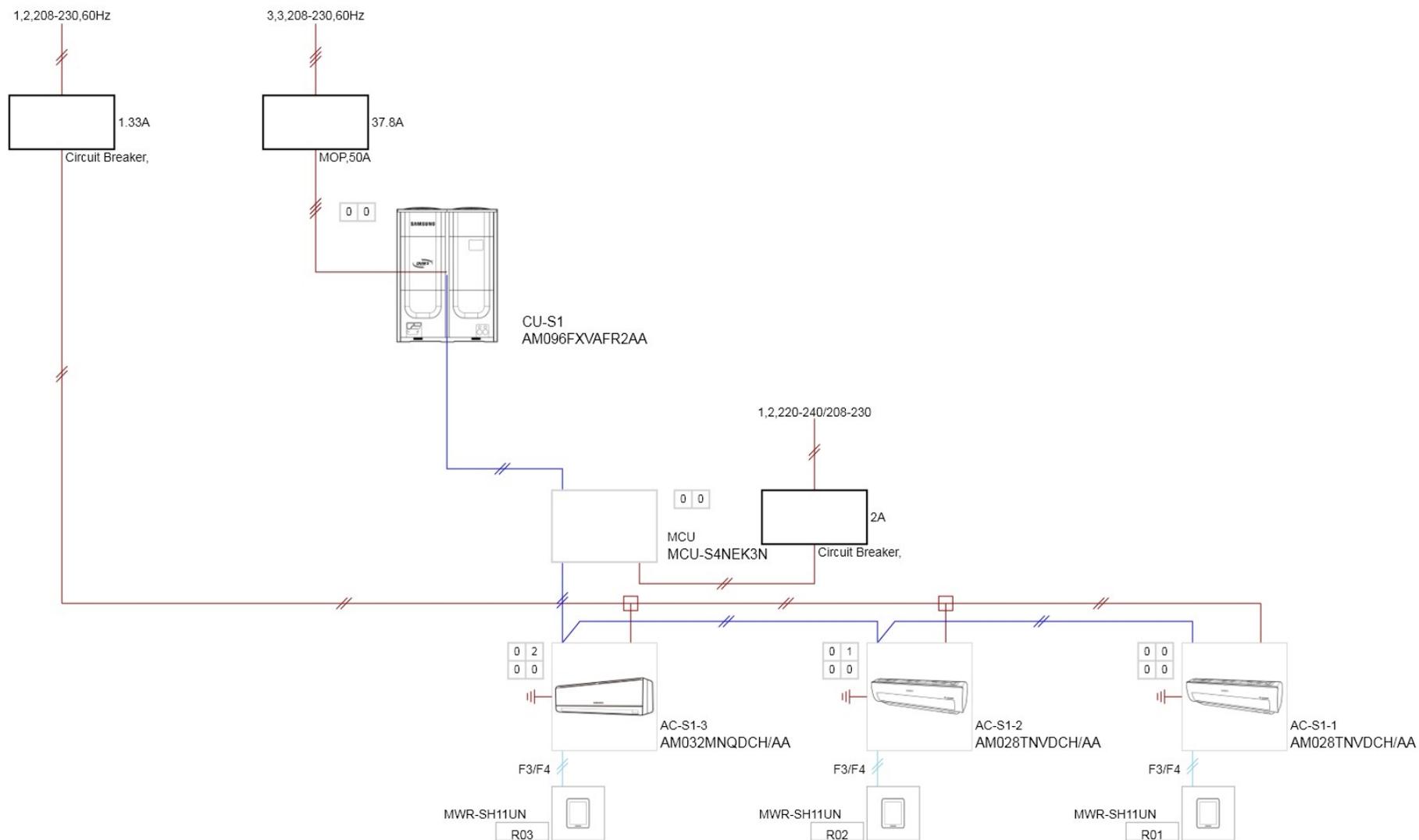
CU-S1(AM096FX/VAFR2AA)
Cooling Capa / Heating Capa
96000(74600)BTU/h / 108000(84200)BTU/h



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.1.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.2 CU-S2

2.2.1 Detail Load Profile

1) Design condition: USA, Delaware, Wilmington, Cooling 95, Heating 10

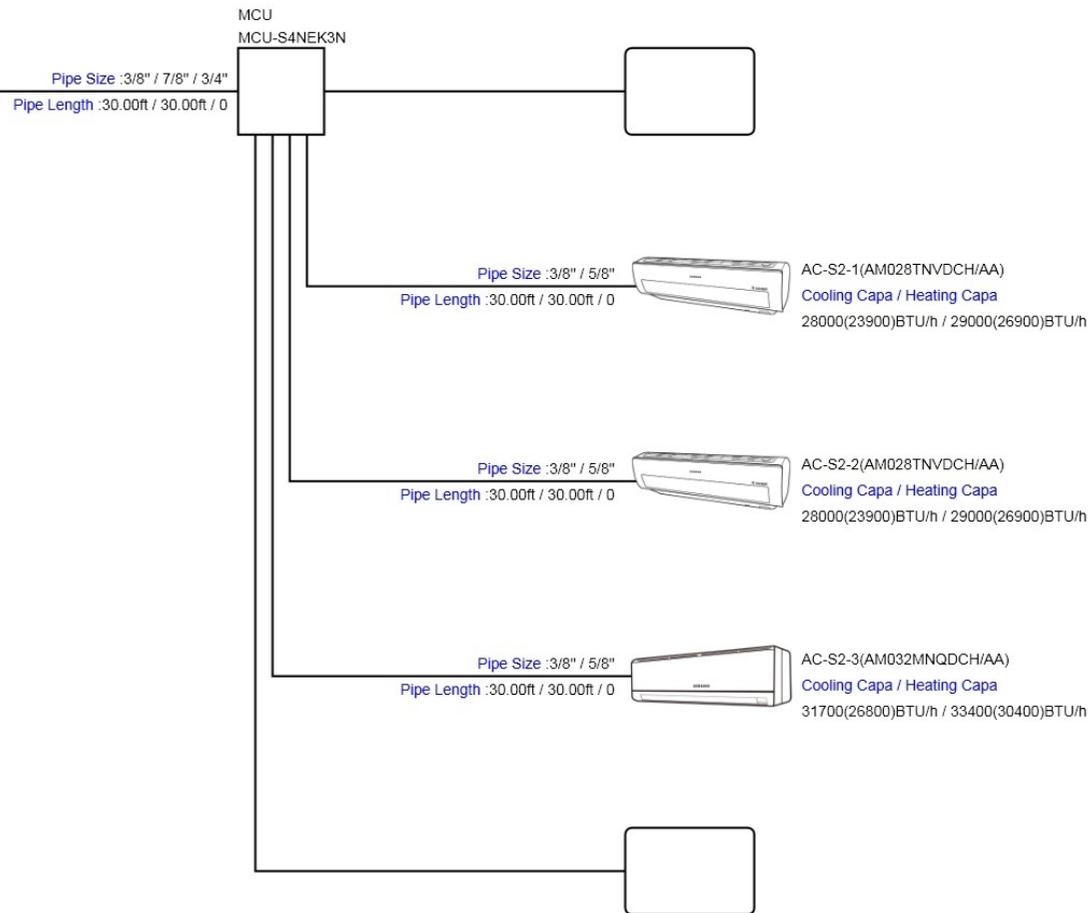
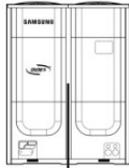
2) Load profile

Building			Unit		Liquid Pipe	Gas Pipe	H.P. Gas Pipe	Airflow		Design condition : Indoor		Max. Capacity @design condition		
Dept	Fl	Room	Name	Model name				Mod e	CFM	Cooling WB.Temp	Heating DB.Temp	Cooling		Heating
-	-	-	-	-	∅, in	∅, in	∅, in			°F	°F	BTU/h	BTU/h	BTU/h
Building1	Roof		CU-S2	AM096FXVAFR2AA	3/8"	7/8"	3/4"		9182.			74600		87300
	4F		AC-S2-3	AM032MNQDCH/AA	3/8"	5/8"		H	812.26	62.5	72	27700	20200	31000
	2F		AC-S2-2	AM028TNVDCH/AA	3/8"	5/8"		H	618.00	62.5	72	24700	17500	26600
	B1		AC-S2-1	AM028TNVDCH/AA	3/8"	5/8"		H	618.00	62.5	72	24700	17500	26600



2.2.4 Piping

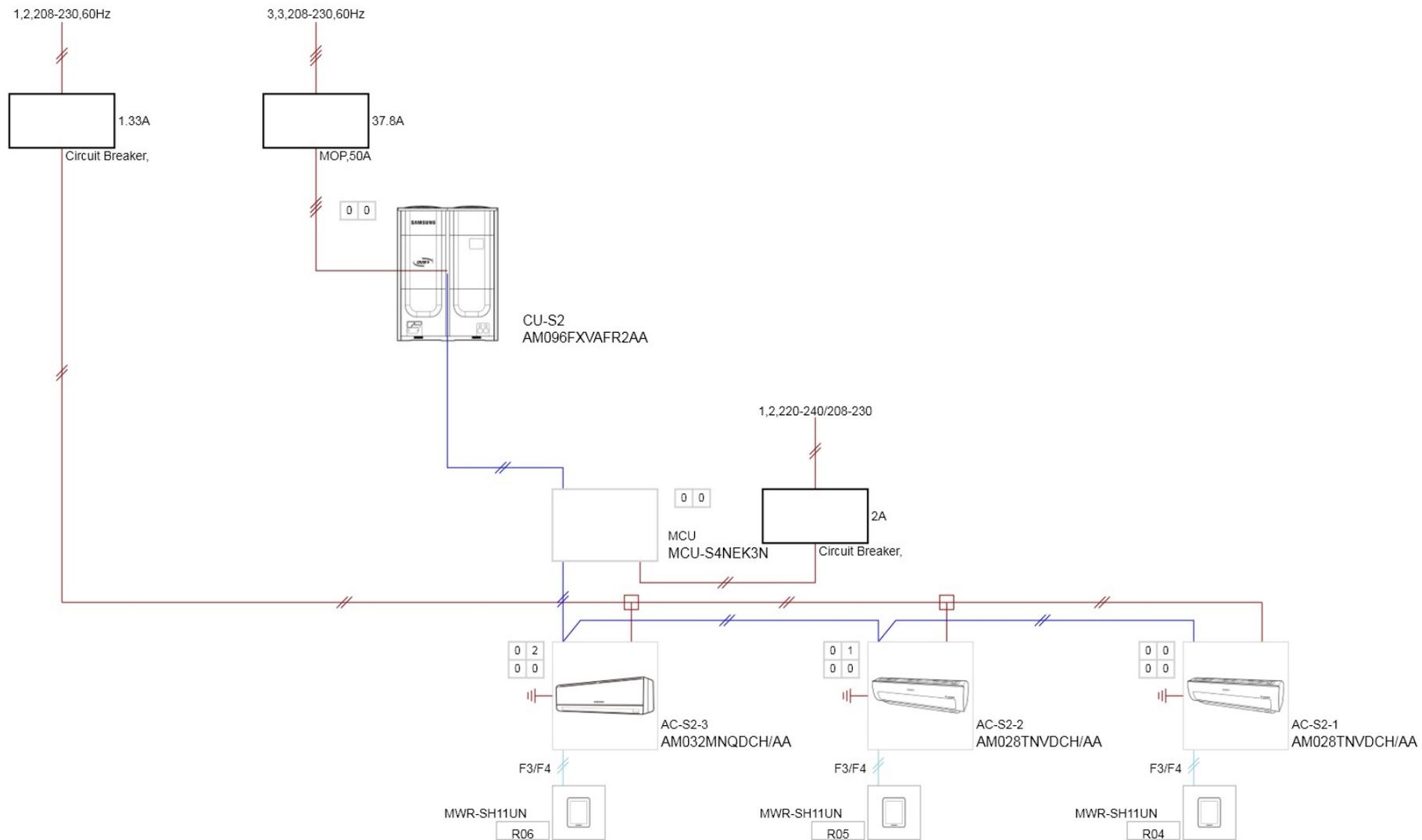
CU-S2(AM096FX/VAFR2AA)
Cooling Capa / Heating Capa
96000(74600)BTU/h / 108000(84200)BTU/h



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.2.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.3 CU-S3

2.3.1 Detail Load Profile

1) Design condition: USA, Delaware, Wilmington, Cooling 95, Heating 10

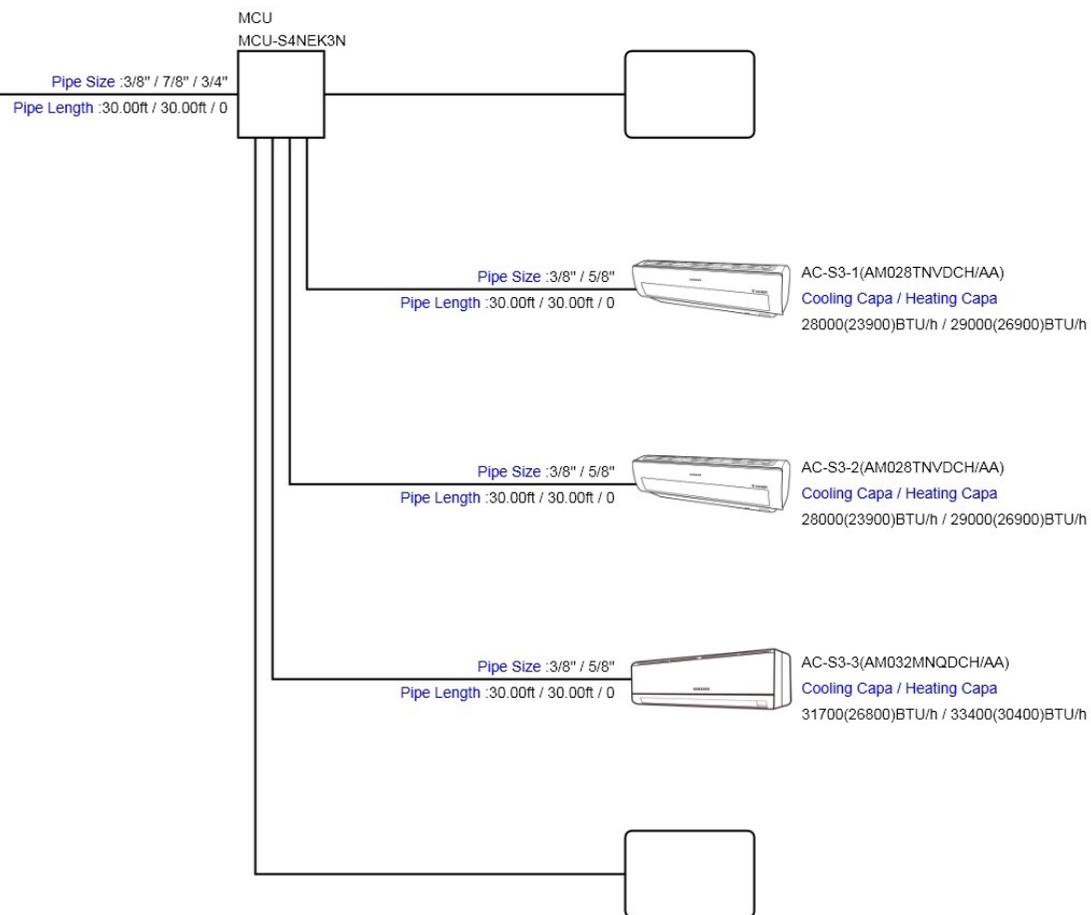
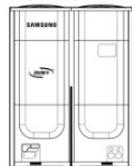
2) Load profile

Building			Unit		Liquid Pipe	Gas Pipe	H.P. Gas Pipe	Airflow		Design condition : Indoor		Max. Capacity @design condition		
Dept	Fl	Room	Name	Model name				Mod e	CFM	Cooling WB.Temp	Heating DB.Temp	Cooling		Heating
-	-	-	-	-	∅, in	∅, in	∅, in			°F	°F	TC	SHC	TC
												BTU/h	BTU/h	BTU/h
Building1	Roof		CU-S3	AM096FXVAFR2AA	3/8"	7/8"	3/4"		9182.			74600		87300
	4F		AC-S3-3	AM032MNQDCH/AA	3/8"	5/8"		H	812.26	62.5	72	27700	20200	31000
	2F		AC-S3-2	AM028TNVDCH/AA	3/8"	5/8"		H	618.00	62.5	72	24700	17500	26600
	B1		AC-S3-1	AM028TNVDCH/AA	3/8"	5/8"		H	618.00	62.5	72	24700	17500	26600



2.3.4 Piping

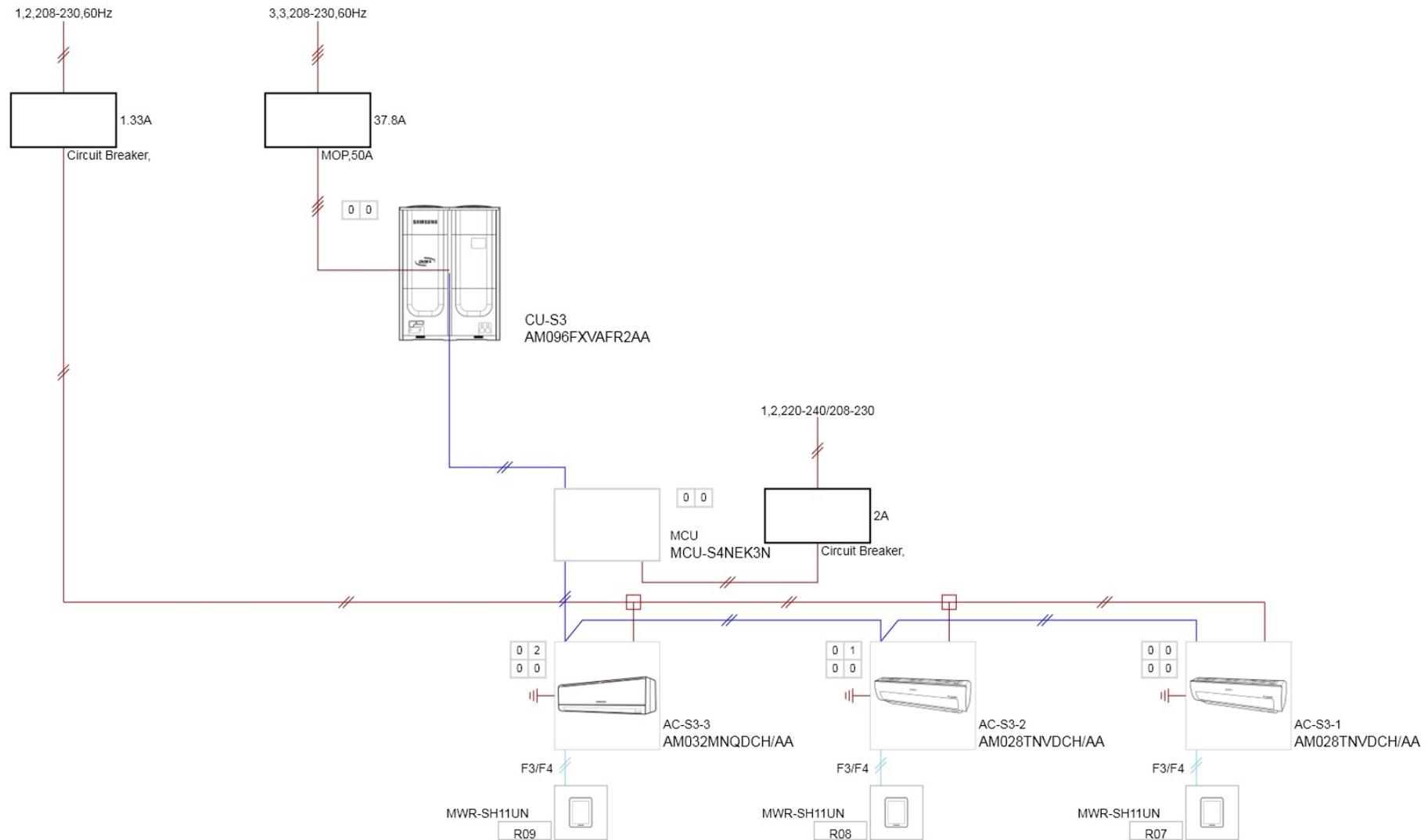
CU-S3(AM096FXVAFR2AA)
 Cooling Capa / Heating Capa
 96000(74600)BTU/h / 108000(84200)BTU/h



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.3.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.4 CU-S4

2.4.1 Detail Load Profile

1) Design condition: USA, Delaware, Wilmington, Cooling 95, Heating 10

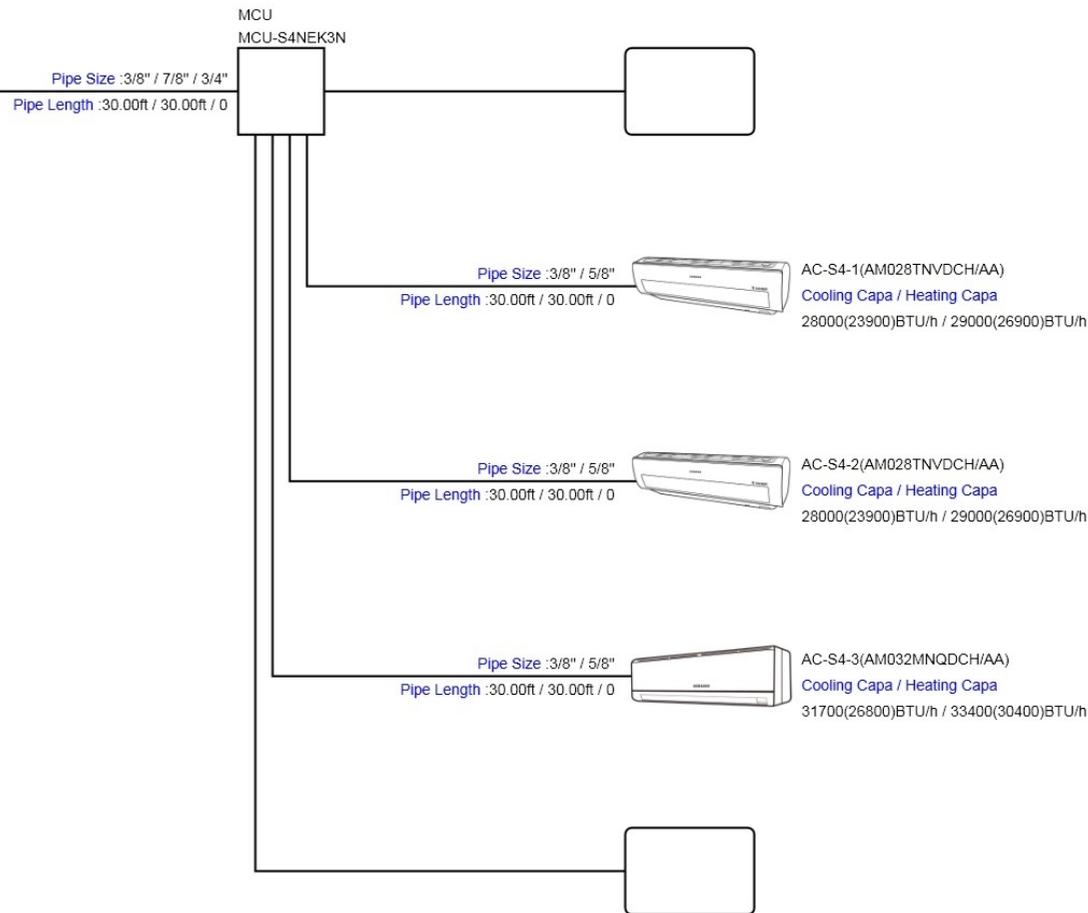
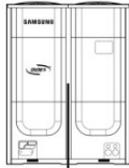
2) Load profile

Building			Unit		Liquid Pipe	Gas Pipe	H.P. Gas Pipe	Airflow		Design condition : Indoor		Max. Capacity @design condition		
Dept	Fl	Room	Name	Model name				Mod e	CFM	Cooling WB.Temp	Heating DB.Temp	Cooling		Heating
-	-	-	-	-	∅, in	∅, in	∅, in			°F	°F	BTU/h	BTU/h	BTU/h
Building1	Roof		CU-S4	AM096FXVAFR2AA	3/8"	7/8"	3/4"		9182.			74600		87300
	4F		AC-S4-3	AM032MNQDCH/AA	3/8"	5/8"		H	812.26	62.5	72	27700	20200	31000
	2F		AC-S4-2	AM028TNVDCH/AA	3/8"	5/8"		H	618.00	62.5	72	24700	17500	26600
	B1		AC-S4-1	AM028TNVDCH/AA	3/8"	5/8"		H	618.00	62.5	72	24700	17500	26600



2.4.4 Piping

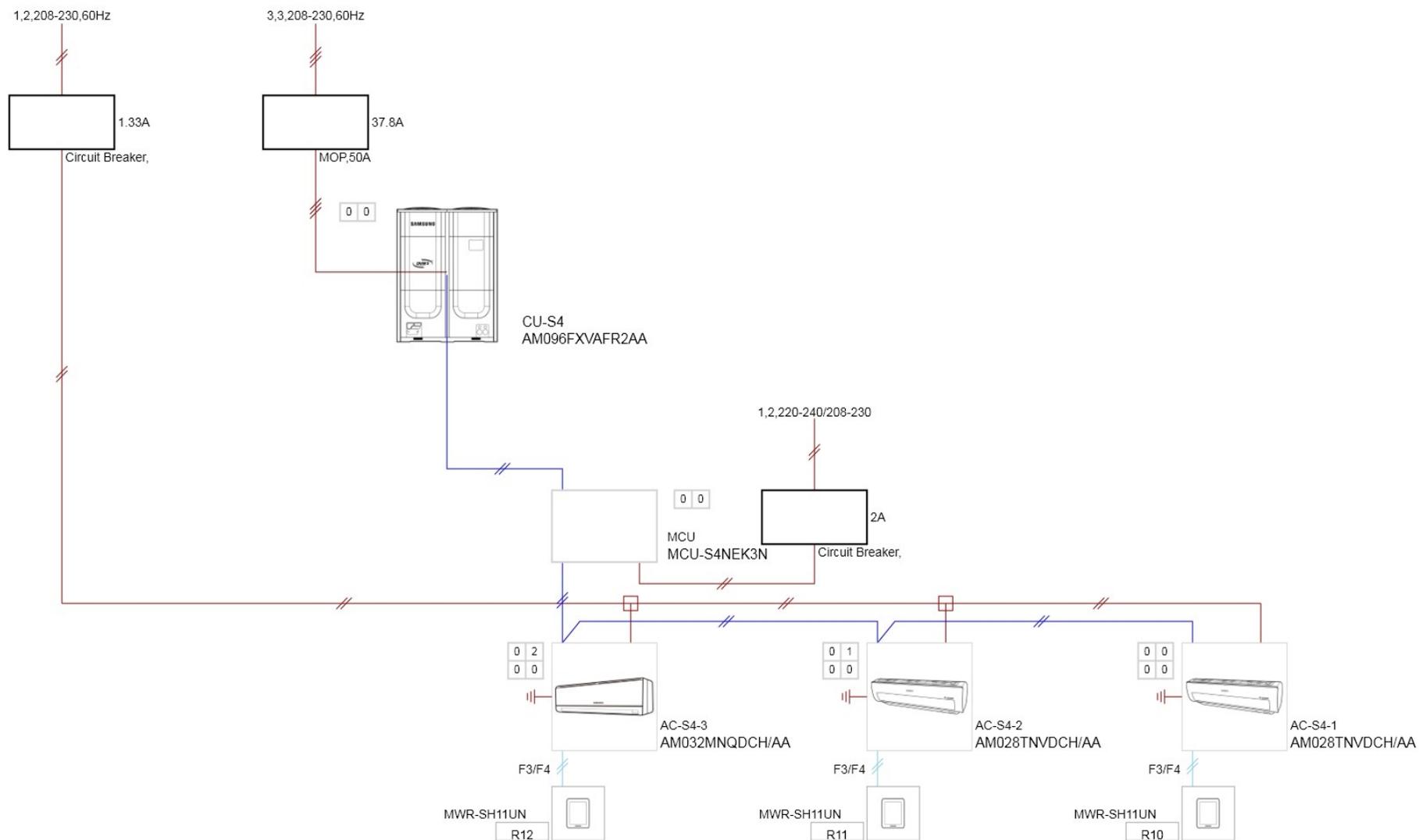
CU-S4(AM096FX/VAFR2AA)
Cooling Capa / Heating Capa
96000(74600)BTU/h / 108000(84200)BTU/h



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.4.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.5 CU-1

2.5.1 Detail Load Profile

1) Design condition: USA, Delaware, Wilmington, Cooling 95, Heating 10

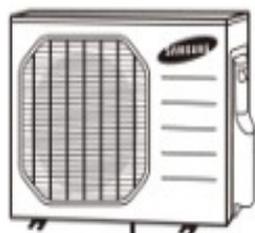
2) Load profile

Building			Unit		Liquid Pipe	Gas Pipe	H.P. Gas Pipe	Airflow		Design condition : Indoor		Max. Capacity @design condition		
Dept	Fl	Room	Name	Model name				Mod e	CFM	Cooling WB.Temp	Heating DB.Temp	Cooling		Heating
-	-	-	-	-	Ø, in	Ø, in	Ø, in			°F	°F	TC	SHC	TC
	Roof		CU-1	AC012KXADCH/AA	1/4"	3/8"			1270			12000		14000
Building1	4F		AC-1	AC012MNADCH/AA	1/4"	3/8"		H	299.83			12000	0	14000



2.5.4 Piping

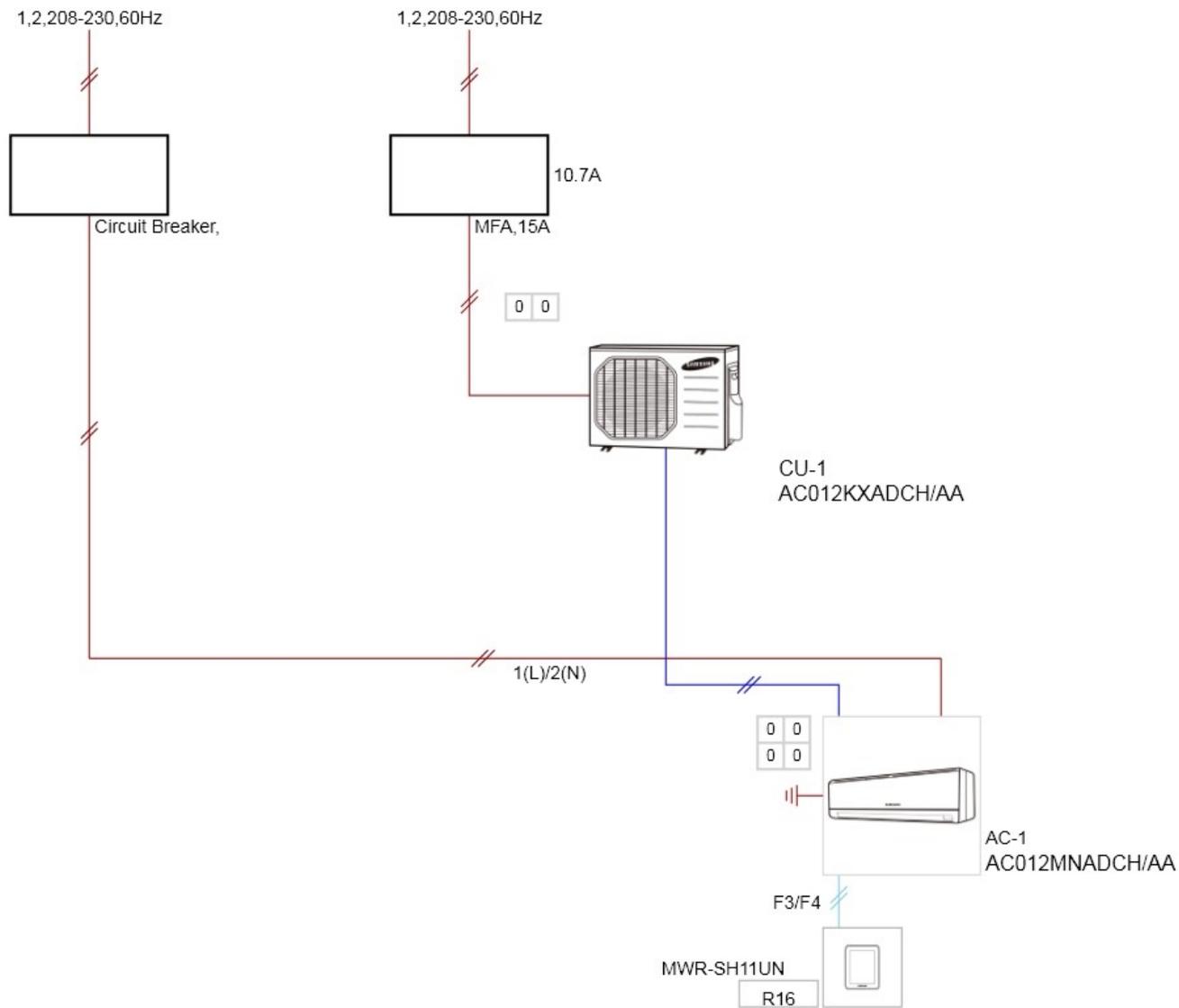
CU-1(AC012KXADCH/AA)
Cooling Capa / Heating Capa
12000(11300)BTU/h / 14000(12400)BTU/h



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.5.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.6 CU-2

2.6.1 Detail Load Profile

1) Design condition: USA, Delaware, Wilmington, Cooling 95, Heating 10

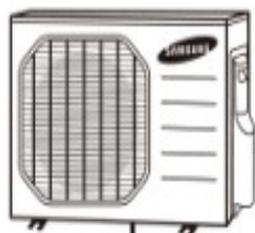
2) Load profile

Building			Unit		Liquid Pipe	Gas Pipe	H.P. Gas Pipe	Airflow		Design condition : Indoor		Max. Capacity @design condition		
Dept	Fl	Room	Name	Model name				Mod e	CFM	Cooling WB.Temp	Heating DB.Temp	Cooling		Heating
-	-	-	-	-	Ø, in	Ø, in	Ø, in			°F	°F	TC	SHC	TC
	Roof		CU-2	AC012KXADCH/AA	1/4"	3/8"			1270			12000		14000
Building1	4F		AC-2	AC012MNADCH/AA	1/4"	3/8"		H	299.83			12000	0	14000



2.6.4 Piping

CU-2(AC012KXADCH/AA)
Cooling Capa / Heating Capa
12000(11300)BTU/h / 14000(12400)BTU/h



Pipe Size :1/4" / 3/8"
Pipe Length :25.00ft / 25.00ft / 0

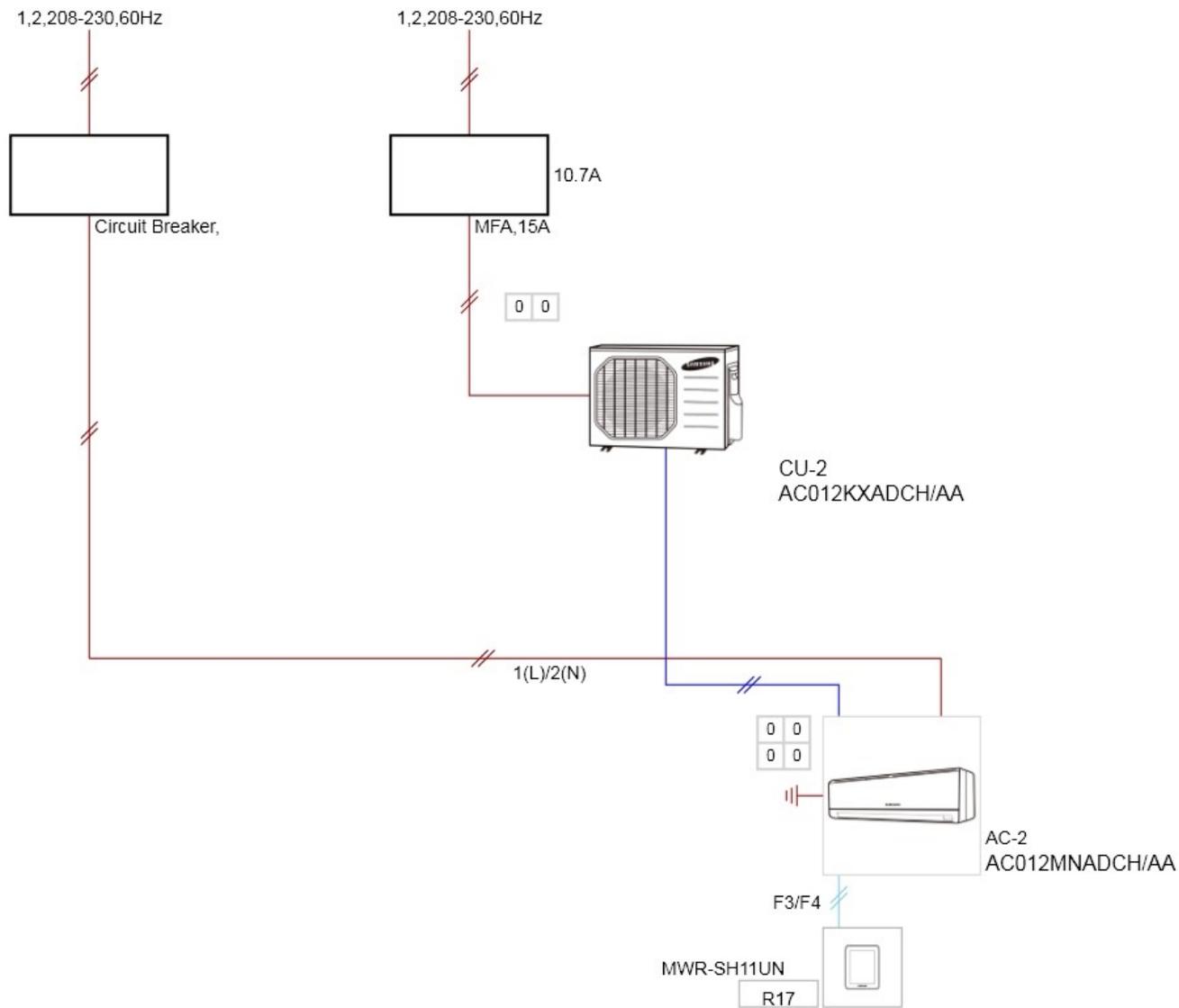


AC-2(AC012MNADCH/AA)
Cooling Capa / Heating Capa
12000(11300)BTU/h / 14000(12400)BTU/h

- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.6.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.7 CU-3

2.7.1 Detail Load Profile

1) Design condition: USA, Delaware, Wilmington, Cooling 95, Heating 10

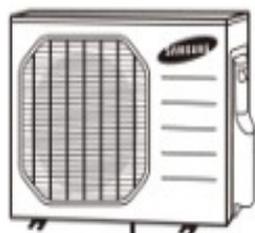
2) Load profile

Building			Unit		Liquid Pipe	Gas Pipe	H.P. Gas Pipe	Airflow		Design condition : Indoor		Max. Capacity @design condition		
Dept	Fl	Room	Name	Model name				Mod e	CFM	Cooling WB.Temp	Heating DB.Temp	Cooling		Heating
-	-	-	-	-	Ø, in	Ø, in	Ø, in			°F	°F	TC	SHC	TC
	Roof		CU-3	AC012KXADCH/AA	1/4"	3/8"			1270			12000		14000
Building1	4F		AC-3	AC012MNADCH/AA	1/4"	3/8"		H	299.83			12000	0	14000



2.7.4 Piping

CU-3(AC012KXADCH/AA)
Cooling Capa / Heating Capa
12000(11300)BTU/h / 14000(12400)BTU/h

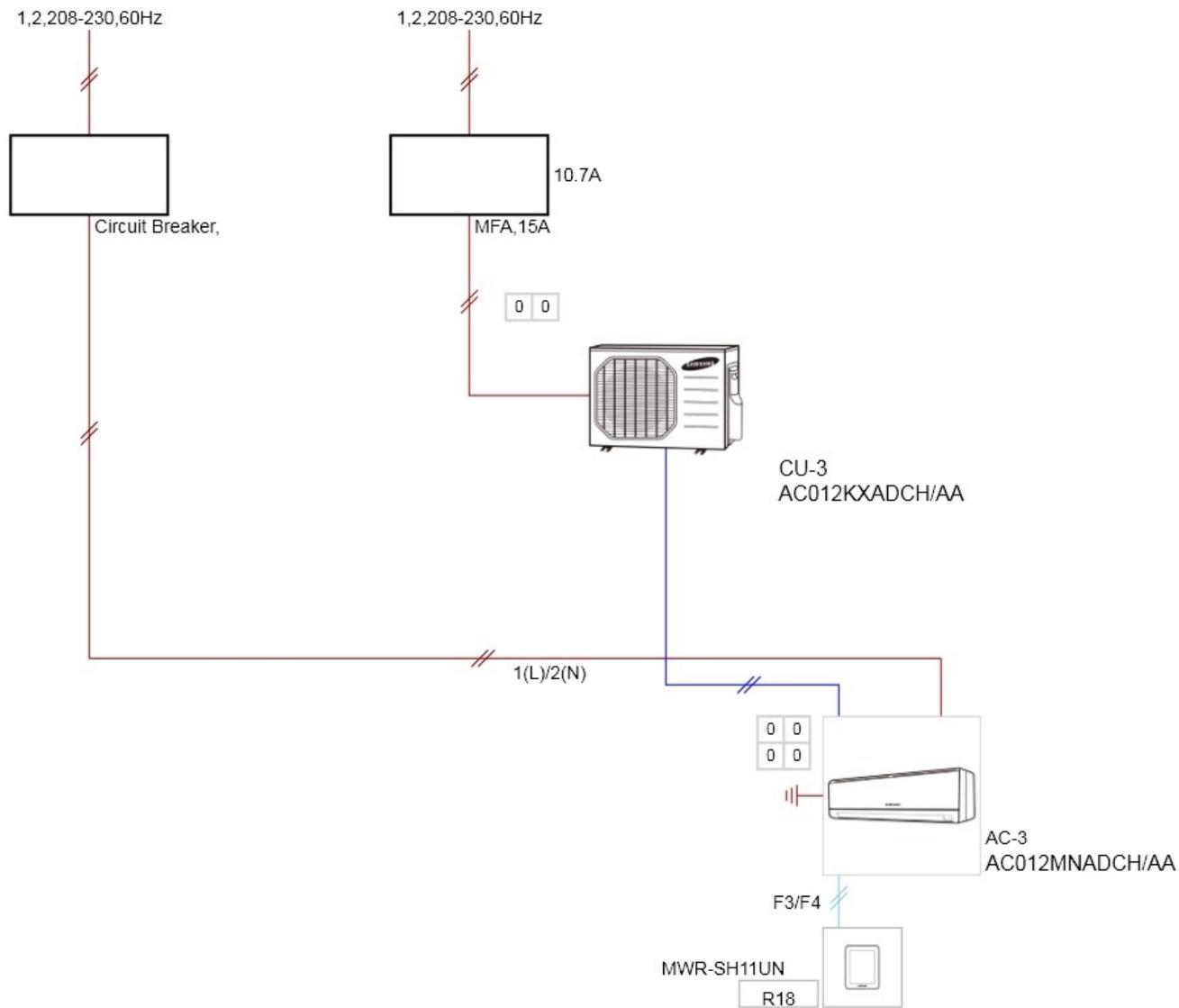


AC-3(AC012MNADCH/AA)
Cooling Capa / Heating Capa
12000(11300)BTU/h / 14000(12400)BTU/h

- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.7.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



3. Specification

3.1 DVM

3.1.1 Outdoor units

Model name			AM096FXVAFR2AA	
Power supply		Ø, #, V, Hz	3,3,208-230,60Hz	
Mode			-	
Mode			HEAT RECOVERY	
Performance	HP/TON		HP/TON	10/8.0
	Capacity(Nominal)	Cooling	kW	28.1348
			BTU/h	96000
		Cooling 46°C	kW	-
			BTU/h	N/A
	Heating	kW	31.6517	
		BTU/h	108000	
-20 °C	Heating(Low ambient temp.)	kW	-	
		BTU/h	N/A	
Power	Power Input(Nominal)	Cooling	kW	5.64
		Heating	kW	6.28
	Power Input (at specific)		kW	N/A
	Current Input(Nominal)	Cooling	A	15.3887
		Heating	A	17.135
	Max. Current Input		A	37.8
Circuit Breaker		A	50	
COP	Cooling		Btu/W-h	17.02
	Heating		W/W	5.04
Compressor	Type		-	SSC Scrollx2
	Output		kW × n	5.09x2
Fan	Type		-	Propeller
	Output		W	620x2
	Number of Units		EA	2
	Air Flow Rate		CFM	9182.00
	External Static Pressure	Max.	ft H2O	0.02624541576
Piping Connections	Liquid Pipe		Ø,mm(in)	9.52(3/8")
	Gas Pipe		Ø,mm(in)	22.22(7/8")
	Discharge Gas Pipe		Ø,mm(in)	19.05(3/4")
	Oil Equalizing Pipe		Ø,mm(in)	N/A(N/A)
Field Wiring	Power Source Wire		mm2	AWG
	Transmission Cable		mm2	AWG/
Refrigerant	Type		-	R410A
	Factory Charging		lbs	16.314
Sound	Sound pressure		dB(A)	61
External Dimension	Net Weight		lbs	637.136
	Shipping Weight		lbs	679.023
	Net Dimensions (WxHxD)		in	50.98x66.73x30.11
	Shipping Dimensions (WxHxD)		in	53.65x74.29x32.76
Operating Temp. Range	Cooling		°F	23.00~120.00
	Heating		°F	-13.00~75.00



3.1.2 Indoor units

Model				AM028TNVDCH/AA	AM032MNQDCH/AA			
Power supply			Ø, #, V, Hz	1,2,208-230,60Hz	1,2,208-230,60Hz			
Performance	Capacity(Nominal)	Cooling	kW	8.206	9.3			
			BTU/h	28000	31700			
		Cooling (SHC)	kW	5.5097	6.3			
			BTU/h	18800	21500			
		Heating	kW	8.4991	9.8			
BTU/h	29000		33400					
Power	Power Input(Nominal)	Cooling	W	65	66			
		Heating		65	76			
	Current Input	Cooling	A	0.43	0.47			
		Heating		0.43	0.54			
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan			
		Output	W	27	58			
		Number of unit	EA	1	1			
	Air Flow Rate	H/M/L (UL)	CFM	618.00/550.90/487.39	812.26/706.32/600.37			
	External Pressure	Min / Std / Max	ft H2O	-	-			
Piping Connections	Liquid Pipe		Ø,mm(in)	9.52(3/8")	9.52(3/8")			
	Gas Pipe		Ø,mm(in)	15.88(5/8")	15.88(5/8")			
	Drain Pipe		Ø,mm	ID 16 HOSE	ID 18 HOSE			
Field Wiring	Power Source Wire		mm2					
	Transmission Cable		mm2	0.75/-	0.75/-			
Refrigerant	Type		-	R410A	R410A			
	Control Method		-	EEV INCLUDED	EEV INCLUDED			
Sound	Sound pressure	High / Low	dBA	46/43	49/43			
Dimensions	Net Weight		lbs	28.700	41.887			
	Shipping Weight		lbs	33.099	48.501			
	Net Dimensions (WxHxD)		in	41.53x11.77x8.46	50.35x13.58x9.01			
	Shipping Dimensions (WxHxD)		in	43.89x11.41x14.76	53.22x16.53x12.83			
Panel Size	Panel model		-					
	Panel Net Weight		lbs					
	Shipping Weight		lbs					
	Net Dimensions (WxHxD)		in					
	Shipping Dimensions (WxHxD)		in					



3.2 CAC

3.2.1 Outdoor units & Indoor units

Model name			AC012KXADCH/AA	AC012MNADCH/AA			
Power supply			ø, #, V, Hz	1,2,208-230,60Hz	1,2,208-230,60Hz		
Mode			-	HEAT PUMP	HEAT PUMP		
Performance	HP		HP				
	Capacity(Nominal)	Cooling (Min. / Std. / Max.)	kW	0.9964/3.5169/4.2495			
			BTU/h	3400/12000/14500			
	Cooling 46°C		kW	-			
			BTU/h	-			
	Heating (Min./Std./Max.)		kW	0.8792/4.103/4.7478			
	Heating (Min./Std./Max.)		BTU/h	3000/14000/16200			
	Heating (Low ambient temp.)		kW	-			
			BTU/h	-			
Energy Grade (C) / Energy Grade (H)			-	18/9.5			
Power	Power Input(Nominal)	Cooling (Min. / Std. / Max.)	kW	0.24/1.22/1.46			
			Heating (Min./Std./Max.)	0.21/1.68/2.3			
	Power Input		kW	-			
	Current Input	Cooling (Min. / Std. / Max.)	A	1.6/5.7/6.6			
			Heating (Min./Std./Max.)	1.3/7.4/10			
	Current Input(Specific)			10.7			
Circuit Breaker (MCCB+ELB / ELCB)		A	15				
COP			Btu/W·h / W/W	9.84/2.44			
Compressor	Type		-	BLDC Rotaryx1			
	Output		kW × n	3.488x1			
Fan	Type		-	Propeller/BLDC			
	Output		W	68	27		
	Number of Units		EA	1	1		
	Air Flow Rate		CFM	1269.96	299.83		
	External Static Pressure		Min. / Std. / Max.	ft H2O	-/-/-	-/-/-	
Piping Connections	Liquid Pipe		ø,mm(in)	6.35(1/4")x1	6.35(1/4")x1		
	Gas Pipe		ø,mm(in)	9.52(3/8")x1	9.52(3/8")x1		
	Drain Pipe		ø,mm	ID 18 HOSE	ID 18 HOSE		
	Installation Limitation		Max. Length and height	m	24.9997/20.001	24.9997/20.001	
Field Wiring	Power Source Wire		mm2				
	Transmission Cable		mm2	0.75/	0.75/		
Refrigerant			Type / Factory charging	R410A/2.310			
Sound		Sound pressure	OD: Max, ID: High / Low	dB(A)		48	
External Dimension	Net Weight		lbs	79.809	16.759		
	Shipping Weight		lbs	85.540	19.840		
	Net Dimensions (WxHxD)		in	31.10x21.61x11.18	29.48x9.68x9.80313		
	Shipping Dimensions (WxHxD)		in	36.49x25.19x15.11	31.49x11.69x11.88		
Panel Size	Panel model		-				
	Panel Net Weight		lbs				
	Shipping Weight		lbs				
Operating Temp. Range	Cooling		°F	-0.03~114.98			
	Heating		°F	-4.00~75.20			





RFI #	Category	Question	Response	Addendum No.
1	Mechanical	We are requesting a clearer M-401 drawing to better depict what pipes are new, what pipes to tie into, etc.	It can darken the text. The new piping shows as dark	3
2	Mechanical	Is Trane a valid controls vender for this bid?	No	3
3	Scope	Scope of work item 1 mentions plaster and stucco. I am not seeing plaster or stucco on the plans, I am going off of the addendum 1 plans and specs. Please confirm that these items are not in this project.	There is no plaster or stucco work associated with this bid.	3
4	Scope	Scope of work item 7 shows this contract owns the installation of HM frames within gyp partitions. Who owns the installation of the associated doors and hardware?	See BPD-14 Scope of Work, Item #14.	3
5	Scope	The scope of work for the carpentry package references Division 10 Specialties. There is another bid package for furnishing only specialties. Please explain what the carpentry package owns as relates to specialties.	See BPD-14 Scope of Work, Item #15.	3
6	Scope	Also, The carpentry scope of work item 7 talks about an allowance for carpenter and laborer hours but the number of hours required has been left blank. Please clarify.	This requirement was removed in revised scopes of work issued in addendum #2.	3
7	Plumbing	Please provide a specification for the following items not shown on the plumbing schedule. a.Drawing P-401 Shock Absorbers (SA) b.Drawing P-402 Floor Sinks (FS)	a. Shock Absorber spec will be added b. The floor sinks are owned by the food service.	3
8	Plumbing	I noticed fixture P-6 in the plumbing schedule, but have been unable to locate this on the plumbing drawings. Please clarify if a janitors basin (P-6) is needed. If so, where?	P-6 will be deleted from plumbing schedule sheet	3
9	Plumbing	Drawing P-402, detail 4, there is a pipe right above column line B.4. that is not labeled or identified. Please clarify sizing and what this system is or connects to?	Pipe was taken off the detail.	3



RFI #	Category	Question	Response	Addendum No.
10	Plumbing	Drawing P-101, column line E/5 shows a new work point with an 1-1/2" sanitary riser to the first floor (P-111). However, drawing P-111 does not show this riser. Please clarify what is going on here.	That was a riser that was changed and never deleted off drawing. It is now deleted.	3
11	Scope	Who owns saw cutting and patching concrete in the lower level? It's not mention on EDIS scope of work. Drawing P-101 note #6.	All saw cutting and patching required for any underslab work will be the responsibility of the contractor that owns the proposed work under the slab.	3
12	Mechanical	Spec section 230130.52 states to clean existing HVAC distribution systems. Spec section 233113 states to clean new duct systems. Please clarify if duct cleaning is needed. If so, what systems need to be cleaned?	Any existing duct to remain on the LL and 1st floor	3
13	Mechanical	Does exposed spiral ductwork require internal duct liner? I noticed the spec called for external duct wrap on exposed ductwork. Is this the intent? Please clarify exposed ductwork spec.	No liner, external	3
14	Mechanical	Please provide insulation spec for grease exhaust ductwork to KHEF-1.	mineral fiber	3
15	Mechanical	Provide a insulation specification for chilled water.	Use same for hot water, just 2" thick	3
16	Plumbing	Cellular Glass is specified to be used on condensate drain and hot water heating piping, this is a very abrasive material. Can Mineral-Fiber (Fiberglass) or Cellular Elastomeric Foam (Armaflex) be substituted?	Yes, mineral fiber or Cellular Elastomeric Foam is a allowable substitution. 3M Fire Barrier Duct Wrap 15A- a fire resistant wrap consisting of inorganic blanket encapsulated with a scrim-reinforced foil - Addendum #4	3
17	Mechanical	Does exposed ducts and pipes require field applied jacket? If so, please provide specification.	In existing insulation spec	3
18	Mechanical	Does lined or double wall ducts require external insulation?	Lined ductwork does not require external insulation	3
19	Mechanical	The make-up air unit and exhaust fans are not included on the mechanical schedule. Please provide.	Will provide in Addendum #3.	3
20	Mechanical	Please provide refrigeration piping drawings, specifically in the stair towers.	Field run piping by contractor	3



RFI #	Category	Question	Response	Addendum No.
21	Electrical	Electrical Drawing E-100 shows a "Z" fixture to be provided with power via New Panel "LPA." This fixture is not on the Fixture Schedule. Please advise if this fixture is new or existing to remain. If new, please provide catalog number for pricing.	Light Fixture Z was supposed to be used for the light wall which has been removed. LPA Circuit 5 was the designated circuit for the light wall shown on the schedule. Z will be used for a new type of fixture in addendum 3.	3
22	Electrical	Please confirm the locations of the New Panels. Discrepancies exist between the location called-out on the Panel Schedules versus what is shown on the Electrical Drawing Floor Plans. See the below examples: - New Panel "LPA" schedule shows location on 1st floor. Electrical Floor Plans show New Panel "LPA" on the Lower Level Boiler Room. -New Panel "EP-B" schedule shows location on Lower Level. Electrical Floor Plans show New Panel "EP-B" on the 1st Floor Electric Closet 131. -New Panels "LPB" & "LPB-B" schedule shows on 1st Floor. Electrical Floor Plans show New Panels "LPB" & "LPB-B" on the Lower Level Electric Closet 034A.	Locations on Schedules will be coordinated and updated.	3
23	Electrical	I do not see any dimming called-out on the Lighting Plans. Please confirm there is no dimming required on this project.	No dimming provided on this project.	3
24	Electrical	Please provide further information on what is being asked at the FCU Motor Switches shown at each stair tower. Looking for circuiting and locations.	Stair Towers will be ventilated with AC Units as shown on the mechanical. See updated electrical plans with power to this unit.	3
25	Electrical	Please provide catalog number for poke-thrus/floor boxes along with circuiting at their locations. Specs are fairly vague.	Basis of Design RPSFB-OG With RP4CTC Cover Legrand Wiremold Ratchet-Pro Series Floor Boxes.	3
26	Electrical	In regards to the above, is trenching required on the Lower Level or are EC's able to core and run cabling/raceways on the floor beneath?	Trenching/Cutting is required on lower level for floor boxes.	3
27	Electrical	Please provide ALL circuiting on Power Drawings. There are several locations where circuiting is not provided. In addition to lack of circuiting, panel schedules do not align with floor plan.	Circuits will be added for all electrical devices.	3
28	Electrical	There is a panelboard shown on E-100 and E-200 in the boiler room labeled as "EM-PA." Is this panel the same as Panel "EPA"? If not, please provide the location of Panel "EPA."	We will update the panel name on the site plan to match EP-A	3



RFI #	Category	Question	Response	Addendum No.
29	Electrical	Who owns the rough-in of Telecom Device? If EC owns this rough-in, telecom device locations and quantities will need to be provided. None shown on Electrical Drawings.	EC will own all telecom/IT and special systems raceways in their bid. EC owns rough in. Use Telecom drawings for rough-in locations - Addendum #4	3
30	Fire Alarm	Is the Fire Alarm contract exclusive to Johnson Controls or can any vendor (Security Instruments, Siemens, etc.) bid this project and perform the work if awarded?	Johnson Controls is the existing Fire Alarm Provider for the building. All new appliances will have to be able to be tested and coordinated with the existing fire alarm system.	3
31	Fire Alarm	Is all Fire Alarm Wiring to be installed in conduit raceway when concealed or can wiring be run in free-air where concealed above ceiling/behind walls?	All fire alarm wiring shall be run in conduit.	3
32	Mechanical	Please provide detailed EC Scope of Work as it pertains to BAS. Specs make vague mention of EC providing the Magnetic Starter Coils and Relay Coils, power to all thermostats and control outlets.	Coordinate with BAS contractor	3
33	Mechanical	Is the Base Bid for the new HVAC equipment to be an extension of the existing building automation system (BAS) and the alternate for the existing BAS to be replaced as a whole? Is the alternate just the replacement if the BAS supervisory controller? Please provide a clear of scope of work for what is to be captured under the base bid vs. the alternate. In addition, there is no Alternates listed on the bid form.	The base bid is to control all the existing and the new vav boxes. The alternate is to upgrade the control system for the facility, to include maintaining the existing pneumatics	3
34	Mechanical	Is the existing building automation system (BAS) supervisory controller in the basement currently controlling the central plant to remain as part of the project?	To be determined by the base bid BAS contractor	3
35	Mechanical	Are the new exhaust fans TEF-1 & 2 to be monitored / controlled by the BAS? If yes, please provide detail/sequence of operations.	Controlled by BAS, same sequence as existing toilet exhaust fans	3



RFI #	Category	Question	Response	Addendum No.
36	Mechanical	Are the new split system air conditioning units AC-1 to AC-S4-3 to be monitored / controlled by the BAS? If yes, please provide detail/sequence of operations.	Monitoring only	3
37	Mechanical	All work associated with the Kitchen Area is called out on the drawings as Alternate #3; however, there is no Alternate #3 on the bid form. If the Kitchen Area is to be treated as an Alternate would this include VAV-4-L-4 and VAV-4-L-5 to be consider part of the Alternate?	These 2 VAVs are in the base bid for the kitchen	3
38	Mechanical	Following the question above, a new Kitchen Make-Up Air MAU-1 and Kitchen Exhaust KHEF-1 equipment is shown on drawing M-110, is MAU-1 and KHEF-1 to be monitored / controlled by the BAS? Is there a kitchen hood controls system that is being installed that is to be also monitored /controlled by the BAS? If yes, please provide detail/sequence of operations.	Monitoring only	3



RFI #	Category	Question	Response	Addendum No.
39	Mechanical	<p>Please confirm if the controllers and devices/sensors for the Hot Water System are to remain or be replaced.</p> <p>According to drawing M-401 a new hot water system differential pressure transmitter is to be installed for the bypass – is this the only new device to be installed?</p> <p>Drawing M-501 Detail 1 shows the hot water system with the following: differential pressure switches across each boiler, hot water system supply and return temperature sensors, a hot water system supply flow meter, and a hot system bypass control valve – are these devices/sensors existing or new? The Detail 1 on Drawing M-501 does not match the control detail on Drawing M-701 – Drawing M-701 Detail 1 shows the hot water system with the following: boiler control, boiler supply temperatures, primary hot water system supply and return temperatures, secondary hot water system supply and return temperatures, hot water system differential pressure, and hot water system pump control – are these devices/sensors existing or new? In addition, the hot water pumps only show start/stop and status. It is our understanding that these pumps have VFDs – are the speed / fault signals to be controlled / monitored also?</p>	<p>Boiler system controls and new pressure transmitters are required. The alternate for new boiler pumps will require VFDs</p>	3
40	Mechanical	<p>The control detail for the new VAV Boxes on Drawing M-702 shows zone CO2 sensors and the points list calls for CO2 to be monitored in high density occupancy zones only – is every VAV to have a dedicated zone CO2 sensor or only specific areas? Please provide locations and quantities for zone CO2 sensors.</p>	<p>Only high density occupancy zones</p>	3
41	Mechanical	<p>Please confirm if the controllers and devices/sensors for the Chilled Water System are to remain or be replaced – Drawing M-703.</p>	<p>Remain as base bid</p>	3



RFI #	Category	Question	Response	Addendum No.
42	Mechanical	Drawings M-705, 706, and 707 state they are for controls work only. These are the locations of the existing reheat coils. What is the controls scope of work associated with the existing reheat coils of floors 2 through 4? If the existing reheat coils are to remain and new controls are to be provided for these please provide detail/sequence of operations, total quantity of existing reheat coils, and what devices/sensors are to remain. Are the control valves being replaced or are the pneumatic valves remaining?	As stated, the Base bid includes maintaining all the existing to remain pneumatics	3
43	Mechanical	If the existing building automation system (BAS) supervisory controller in the basement is to be replaced are the existing Air Handlers (qty 4), Energy Recovery Units (qty 4), and Unit Heaters UH-1 (qty 8) to be monitored / controlled by the BAS?	The existing BAS controls this equipment	3
44	Mechanical	Is the existing Elevator Pressurization Fan to be monitored / controlled by the BAS? If yes, please provide detail/sequence of operations.	Monitored only	3
45	Mechanical	What trade is responsible for providing power wiring to the Variable Air Volume (VAV) Boxes?	BAS and EC to determine	3
46	Mechanical	What trade is responsible for providing the new Variable Frequency Drives (VFDs)?	BAS contractor to provide	3
47	Mechanical	Please confirm only the Condenser Water pump VFDs are being replaced-qty.2	condenser water pumps and VFDs are part of an Alternate	3
48	Mechanical	Please provide the warranty requirements for the BAS-1 or 2 years	2 years	3
49	Scope	Bid Form Dated June 29, 2020 does not have a Line Item for Alternate pricing. Please confirm the Bid will be split into two sections Base Bid (VAV replacement only) and Alternate (Central Plant and VAV controls replacement) as described in specification document 23 09-50.	Revised bid forms will be issued with Addendum #3.	3



RFI #	Category	Question	Response	Addendum No.
50	Mechanical	Drawing Page M-704 Dated 07/24/2020 "Note: all new DDC controls shall be compatible with existing Johnsons controls DDC system." How does this comment apply if Automated Logic is chosen as the BAS for this project?	Base bid is to maintain the existing system and the new systems added.	3
51	Mechanical	3.Drawing Page M-100 Dated 07/24/2020 shows VAVs 4-L-4 and 4-L-5 inside Kitchen Area as alternate. Please confirm ATC Contractor provide separate pricing as an alternate for VAVs listed in this area.	It is part of Base Bid	3
52	Mechanical	Drawing Pages M-705 through M-707 locate existing Hot Water Coils on floors 2,3, and 4. Please confirm the existing Hot Water Coils shown are currently pneumatically controlled.	They are existing pneumatic systems	3
53	Mechanical	Drawing Pages M-705 through M-707 locate existing Hot Water Coils on floors 2,3, and 4. Please confirm there is no new DDC control work to be completed on floors 2,3, and 4.	The BAS contractor will maintain the existing BAS system	3
54	Mechanical	Drawing Page M-702 schematic diagram for Variable Air Volume Units describe CO2 sensing in the space. ALC offers a combined CO2 equipped thermostat PN ZS2P-C-ALC. Please confirm the combined space temperature/ CO2 sensor as an acceptable device for monitoring Zone conditions.	Some spaces, not all require CO2 sensing. Provide a cut sheet with the submittal	3
55	Mechanical	Drawing Page M-702 schematic diagram for Variable Air Volume Units describe CO2 sensing in the space. ALC offers a combined CO2 equipped thermostat PN ZS2P-C-ALC. Please confirm the combined space temperature/ CO2 sensor as an acceptable device for monitoring Zone conditions.	Some spaces, not all require CO2 sensing. Provide a cut sheet with the submittal	3
56	Mechanical	Drawing Page M-110 shows Kitchen hood Exhaust Fan and Makeup Air Unit. Please confirm there is no scope of work for ATC contractor associated with these items.	Monitor equipment only	3



RFI #	Category	Question	Response	Addendum No.
57	Mechanical	Specification Document page 23-09-50-1 Section 1.03, describes BAS to control AHU, Chillers, Cooling Tower, Pumps, Boilers, etc.	The base bid BAS contractor will control the facility and the new work as well	3
58	Mechanical	Please confirm Boiler Manufacturer/Factory Control Panel is BACnet MS/TP capable.	Unknown Assume the boiler is not BACnet compatible - Addendum #4	3
59	Mechanical	Please confirm Chiller Manufacturer/Factory Control Panel is BACnet MS/TP capable.	Unknown Chiller is not BACnet capable - Addendum #4	3
60	Mechanical	Please confirm, as described in alternate, there will be a new Building Automation System for Central Plant and Terminal Units, and it will be tied into DTCC's existing IP network infrastructure. a. Please confirm Automated Logic as an acceptable DDC control system for the Air Handler listed on page M-704, as indicated on page 23 09 50 -1 section 1.03 item C of specification document.	ALC is listed as an acceptable Mfgr	3
61	Mechanical	230950 (BASE BID) Specification: Item 1.03 C. – Can you clarify BAS contractors responsibility under this bid for “maintaining existing, to remain pneumatic systems”.	The BAS contractor will maintain the existing BAS system	3
62	Mechanical	230950 (ALTERNATE) Specification: a. General – Is this spec section intended cover only the work associated with the central plant? Or does it also include all VAV box or other work outside the central plant? b. Item 1.03 B. – Can you clarify that all bidders must replace the existing BAS hardware in the central plant with new. c. Item 1.03 C. – Can you confirm the specific HVAC equipment/systems are to be controlled under the alternate. VAV boxes and existing pneumatic to remain VAV are listed under this alternate, but are also listed in the BASE BID scope. Also is CV AHU in BASE BID or ALTERNATE scope?	The alternate for a new BAS system would control the entire facility, including the existing pneumatic system.	3



RFI #	Category	Question	Response	Addendum No.
63	Mechanical	230955 (BASE BID and ALTERNATE) a.Item 1.4 A. – Can you clarify quantity of required user licenses? Unlimited?	Unknown Provide a minimum of four user licenses - Addendum #4	3
64	Mechanical	230950 thru 230955 - General questions: a.Can you confirm that all new BAS work associated with both the base bid and alternate are to be exclusively BACnet-based controllers. b.Can you clarify that all requirements related to BACnet OWS (hardware, software, graphics, alarms, schedules, trending, web-based, etc.) are to be included by all bidders for both the base bid and alternate bid. c.Can you clarify whether BAS contractor or DTCC will provide the following items related to the BACnet OWS, and quantities of each required: i.Server hardware ii.Server operating system iii.Server database engine iv.Workstation(s) v.Laptops(s)	The successful BAS contractor will maintain the entire facility	3
65	Mechanical	230968 VFD's (BASE BID and ALTERNATE): a.Are VFD's part of the CV AH package, provided by mechanical contractor? Or are these VFD's to be provided by controls contractor? b.Are VFD's required for the hot water system pumps?	VFDs provided by BAS contractor. Under the alternate, new boiler pumps and VFDs will be installed	3
66	Mechanical	Drawing M-701: a.Do BP-1 and BP-2 shown in the pump schedule on drawing M-601 pertain to hot water pumps P-1 and P-2 shown on drawing M-701?	Main boiler pumps are P-1 and P-2.	3
67	Mechanical	Drawing M-601 - Regarding the split system air conditioning units shown: a.Is this equipment controlled by the BAS? b.Is it to be integrated to the BAS? If yes, will the SS equipment manufacturer provide a single BACnet gateway to facilitate integration?	Bacnet gateway provided by mfgr. Monitoring only	3



RFI #	Category	Question	Response	Addendum No.
68	Mechanical	Drawing M-703 a.Are VFD's shown for the chilled water and condenser water pumps existing, or is BAS contractor to provide new? b.Is a differential pressure sensor required for the chilled water loop? If yes, where should it be located? c. Are the chiller isolation valves and cooling tower 3-way valves existing or new?	New VFDs	3
69	Mechanical	20.Drawing M-704: a.Can you confirm the location(s) and quantity of CV-AHU. b.If these are the existing penthouse AHU, is the BAS contractor to replace the existing controllers on all of these units?	These are already controlled by the existing system.	3
70	Scope	Clarify which Bid Pack Number owns installation of Specialties called out for BPD-21 Summary of Work. Reference Section 01113 Advertisement for Bid, BPD-21 Summary of Work description "Furnish Only", Addendum #2 BPD-21 SOW Paragraph A.12 and A.23, and sentence located directly under the Technical Specification Sections to provide labor and materials. Carpentry and General Work is separate bid package BPD-14.	Bid Pack BPD-14 will receive and install the Specialties called out for BPD-21 Summary of Work. Reference Section 01113 Advertisement for Bid, BPD-21 Summary of Work description "Furnish Only".	3
71	Arch	Are Lavatories 002, 003, 004, 005, 102, 103, 104, and 105 the only toilet rooms requiring new toilet partitions and accessories, with no new work required on Second, Third, and Fourth floor toilet rooms?	The only lavatories included in this bid are located on the Lower Level and 1st floors.	3
72	Scope	BPD-21 Item #15 Signage. Provide full specifications, detail drawings, schedule and/or all signage locations.	Signage, other than ADA required restroom signs, is not included in this bid.	3
73	Scope	Are temporary fire extinguishers required for Lower Level and First Floor, only, or required for all floors Lower through Fourth?	Fire Extinguishers are required on the lower level, 1st floor and any new area of construction.	3



RFI #	Category	Question	Response	Addendum No.
74	Arch	Sheet A-401, Toilet Accessory Schedule Type Mark T-7 product description is not complete. Additionally, is Accessory T-7 to have Accessory T-5 product description? Elevation 9/A-401 indicates combination toilet paper/seat cover dispensers and sanitary products disposal, and a separate sanitary products disposal unit is shown at this elevation. Elevation 10/A-401 indicates a combination double toilet paper dispenser, seat cover dispenser.	See addendum #3.	3
75	Arch	Provide specifications for T-5 and T-7. Combination toilet tissue units specifications are missing from Section 102800.	See addendum #3.	3
76	Arch	Clarify mock-up requirements as described on Sheet A-401 Toilet Room General Note #7.	No mockup required.	3
77	Arch	Provide Keynote Legend for Sheets A-120, A-130, and A-140.	See addendum #3.	3
78	Arch	Floor plans A100, A110, A120, A130, and A140 are annotated with interior elevation marks referencing Sheets A-400, A-404, A-406, A-431, and A-432 which are missing from the issued drawing set.	See addendum #3.	3
ADDENDUM NO.4				
79	Arch	Sheet A-100 references sheet A-405. There is no sheet A-405	Disregard Note.	4
80	Arch	Drawing index lists sheet A-420. There is no sheet A-420	Disregard Note.	4
81	Arch	Can we get a quantity of the post tension rods that are to be stripped, sanded, and caulked? Without surveying the building how do we determine quantity as these are not indicated on the drawings	Disregard item #20, this will be in a future bid pack.	4
82	Arch	Sheet A-100 has multiple references to sheet A-430. There is no sheet A-430	Disregard Note.	4



RFI #	Category	Question	Response	Addendum No.
83	Arch	Need a specification for FRP wainscot. Where does this occur as have not seen it on the drawings nor is there a finish plan or finish schedule	Reference note #3 on A-401 and A-402.	4
84	Scope	Carpentry and General Works bid form does not have alternates listed. It appears there may some blocking with these alternates for associated exterior windows and curtainwall	There are no alternates for general work and carpentry.	4
85	Scope	Are we to assume that carpentry scope line item #13 and #14 are on in the same?	Yes.	4
86	Arch	Sheet A-610 notes W15A and W15B as hollow metal frames. Sheet A-612 notes W15A and W15B to be aluminum curtainwall	Curtainwall.	4
87	Arch	Please confirm W24 and W27 as shown on sheet A-610 are hollow metal	Hollow Metal.	4
88	Arch	Doors 017, 021, 022, 023, 133, 146, 150A, 151, 152, 153, 153A, 165, 201, 202, 300, 301, & 302 are missing frame or door type tags	Unless otherwise noted, doors shall be wood and frames hollow metal.	4
89	Arch	Please indicated what sheet you are referring to for carpentry scope line item 9 referencing details H7, 8, & 9	A-602	4
90	Arch	Please confirm carpentry scope line item #11 is indeed correct for carpentry package to provide backer and sealant at door frames.	Disregard.	4
91	Arch	Sheet 1/A602 depicts a 3" x 3" tube steel for support of overhead doors and grills. Who is responsible for this?	Owned by BP-14.	4
92	Arch	Please provide a specification for the Armstrong Channeled Wall Planks System	Disregard.	4



RFI #	Category	Question	Response	Addendum No.
93	Arch	Sheet A-110 show references to sheet A-404. There is no sheet A-404.	Disregard note.	4
94	Arch	Are the wood benches, sills, and aprons to be field finished by the painter or shop finished?	Painter.	4
95	Arch	Details on sheet A-613 show both 1" x 4" aprons and 5/4" thick aprons. Is there a mixture of sizes or should they all be 1" x 4"?	5/4" on all.	4
96	Structural	We are missing drawings. Structural drawings are mentioned as a reference but did not receive any .	Structural drawings were issued in Bid Pack C.	4
97	Arch	Last question #78 in addenda 3 ask about drawings and the answer was see addendum 3 but still do not see the drawings A-404,406,431,432	Drawing not included in Addendum #3.	4
98	Scope	Bid pack 14 and bid pack 21 are still not clear.	Bid Pack 14 is to install doors, frames, hardware and specialties. Bid Pack 21 is to furnish door, frames, hardware and specialties.	4
99	Scope	Usually the carpenter package does not install the specialties like toilet partitions, grab bars, demountable partitions, that's usually done by the people suppling them, because of warranty issues.	In this bid package they are included.	4
100	Arch	On drawing a-702 on section 1 it references see structural drawing. There are no structural drawings in anything we have received.	Issued in Bid Pack C.	4
101	Arch	On drawing A-311 it makes reference to see schedule base. I do not see any drawing for finishes. Please clarify where this may be found.	Finishes will be bid in later bid package.	4
102	Arch	Is there any blocking needed in the classrooms? There are no interior elevations of the classrooms.	Wherever is shown on the drawings.	4
103	Mechanical	Will Demolition drawings be issued for the HVAC, it's hard to tell what is existing and what is new.	Issued in Bid Pack C.	4
104	Mechanical	Drawing M-100 shows a SAR-3 & SAR-4. There is no SAR-3 or 4 on the schedule. Please show what SAR-3 and SAR-4 are.	Supply Aire Register.	4



RFI #	Category	Question	Response	Addendum No.
105	Arch	What is W04G? It is between Advising 150 and Testing Center 151.	Storefront Window.	4
106	Electrical	Electrical Drawing E-110 does not show a single Exit Sign or Emergency Lighting Unit. Please update drawing to show correct locations/quantities of Exits and Emergency Lighting Units. If drawing is correct, please confirm all Existing Exits Signs and Emergency Lighting Units are existing to remain.	See sheet E-110 in Addendum #4.	4
107	Electrical	Electrical Drawings E-120 and E-130 call for the re-use of previously stored lighting fixtures. Please update drawing to show the actual quantity of fixtures to be reinstalled in order to accurately capture labor. In addition to plotting fixtures, please update drawing to show the expected circuiting in order to accurately capture the labor and material involved with providing power.	See question #140.	4
108	Electrical	Please confirm Existing PNL "PP1" and all associated downstream gear found on Electrical Drawing E-601 no longer exists. These Panels, Disconnect and Transformer are to be removed in the previous demo phase and not called-out to be reinstalled.	See question #143.	4
109	Electrical	Electrical Drawing E-200 shows a 200amp Disconnect. Electrical Single Line, E-601 does not show any disconnects. Please advise if a 200Amp Disconnect is required and update drawings accordingly.	See question #142.	4
110	Electrical	Electrical Drawing E-601, Note #4, calls for 45kVA, 3PH, Dry Type Transformer. The Transformer between New PNL "LP-F" and New PNL "LPF-F" is shown as a 75kVA, but has Note #4 next to it. Please confirm all XFMR's between Branch Panels "LP - " should be 45kVA (total count of 6).	See question #143.	4



RFI #	Category	Question	Response	Addendum No.
111	Electrical	Please provide further Electrical Information on the (2) Disconnect Switches shown on E-402, Detail 2. Drawing does not show Disconnect sizing or circuiting. Who is to provide the VFD's?	See question #144.	4
112	Electrical	Electrical Drawing E-601 can be tough to differentiate between bolded and non-bolded work. Please confirm the below Feeds are the only NEW Feeds to be included in this pricing (20 New Feeds in total): 1.Ex PNL "EP-A" to New PNL "EP-B" 2.Ex Junction Box to Ex PNL "LP-E" 3.Ex PNL "LP-E" to New XFMR 4.New XFMR to Ex PNL "LP-EE" 5.Ex PNL "DP1" to New PNL "LP-C" 6.New PNL "LP-C" to New XFMR 7.New XFMR to New PNL "LP-CC" 8.Ex Switchboard "MDP" to New PNL "LP-A" 9.New PNL "LP-A" to New XFMR 10.New XFMR to New PNL "LP-AA" 11.Ex Switchboard "MDP" to New PNL "LP-F" 12.New PNL "LP-F" to New XFMR 13.New XFMR to New PNL "LP-FF" 14.Ex Switchboard "MDP" to New PNL "LP-D" 15.New PNL "LP-D" to New XFMR 16.New XFMR to New PNL "LP-DD" 17.New PNL "LP-B" to New XFMR 18.New XFMR to New PNL "LP-BB" 19.New XFMR to New PNL "KP-A" 20.New PNL "KP-A" to New PNL "KP-B"	Yes, all feeds listed below are to be included in this pricing.	4
113	Scope	BPD-21 scope item 12 "Provide labor and materials to perform the work related to all carpentry and general work."	Furnish Only.	4
114	Scope	BPD-14 item 8 and BPD-21 scope item 25 – temporary fire extinguishers.	See Addendum 3.	4



RFI #	Category	Question	Response	Addendum No.
115	Scope	BPD-21 owns furnishing only overhead doors, wood doors, and hollow metal doors and hardware. BPD-16 owns installing hollow metal door frames. What bid package owns installing overhead, wood, and hollow metal doors and finish hardware?	BPD-14 owns installing overhead doors.	4
116	Scope	Question on scope of work; BPD-14 – Carpentry & General Work, note 7. How may hours are we to include?	Deleted from scope.	4
117	Scope	Who installs the HM/WD doors, frames and hardware?	BPD-14.	4
118	Scope	BPD-21 Paragraph A.12 reads to “provide labor and materials to perform the work related to all carpentry and general work”. Carpentry and General Work is separate bid package BPD-14.	Same as question #114.	4
119	Scope	BPD-21 Item #15 Signage. Provide full specifications, detail drawings, schedule and/or all signage locations.	Signage not included in this package.	4
120	Scope	BPD-21, Paragraph A.25 reads to provide temporary fire extinguishers. BPD-14, Paragraph A.8 specifies the same requirements. Clarify which Bid Pack that owns providing temporary fire extinguishers.	BPD-14. See Addendum #3.	4
121	Arch	Provide Sheets A-400, A-404, A-406, A-431, and A-432 are missing from the issued drawing set.	A-400 was included in Addendum #3, A-404 will be in Bid Pack E, A-406 does not exist, A-431 will be in Bid Pack E, A-432 does not exist	4
122	Scope	Is the Base Bid for the new HVAC equipment to be an extension of the existing building automation system (BAS) and the alternate for the existing BAS to be replaced as a whole? Is the alternate just the replacement if the BAS supervisory controller? Please provide a clear of scope of work for what is to be captured under the base bid vs. the alternate. In addition, there is no Alternates listed on the bid form.	The base bid is to control all the existing and the new vav boxes. The alternate is to upgrade the control system for the facility, to include maintaining the existing pneumatics	4
123	BAS	Is the existing building automation system (BAS) supervisory controller in the basement currently controlling the central plant to remain as part of the project?	Refer to RFI Question #34 in Addendum No. 3 and BAS spec issued in Addendum #4.	4



RFI #	Category	Question	Response	Addendum No.
124	Arch	On Drawing A-100, the following are referenced but the drawings are missing from the bid set: Learning Commons 010A, Elevation 5/A-406 Main Entrance 000D, Enlarged Plan 1/A-430, Elevations 1, 2, & 3/A-406, Elevation 1 & 3/A-400 Learning Commons 010, Enlarged Plan 11/A-430 Printer Alcove 010B, Enlarged Plan 9/A-430 Corridor 000C, Elevation 2/A400	Reference new A-100 drawing from Addendum No. 4	4
125	Scope	Line item #9 references wood blocking at exterior pavers per detail 3/A-323. There is no sheet A-323.	See addendum #3.	4
126	Scope	Line item #11 all linear wood ceilings which we assume are items SWC-1 & CSW-2 on reflected plans, why would this not be in the ACT package as this would be a ceiling related component and not so much carpentry.	This is in BPD-14. See Addendum #3.	4
127	Arch	Please provide sheet A-611 and the corresponding door/window schedule.	Sheet A-611 was deleted in Addendum No. 3	4
128	Scope	Would the rigid insulation that is fastened to the exterior gyp sheathing be part of BPD-16?	Yes.	4
129	Scope	The SOW mentions insulation but does not point out rigid insulation.	All insulation is under BPD-16.	4
130	Scope	I did not see a SOW for the mason, I figured the rigid insulation might show up in said SOW.	Masons SOW was issued in previous BPC.	4
131	Scope	I am not seeing any information on the drawings or specs for SOW item # 6 aluminum pan ceilings or #11 acoustical wall treatment. Please confirm neither of these are in the job?	Reference Addendum #3 drawings and specs.	4
132	Arch	All interior office fronts are spec'd as AllSteel furniture type not your typical temped glass or storefront demountable partitions. Is this spec likely to be revised?	Use what is specified.	4



RFI #	Category	Question	Response	Addendum No.
133	Electrical	Electrical Drawing E-120, Note #6, calls for the re-use of previously stored lighting fixtures. This note is found in areas on the drawing where no fixtures are plotted. Please confirm that the quantity of fixtures to be re-installed are only those plotted on the drawings. If these relocated fixtures are to be excluded from scope please confirm.	The amount of fixtures that were removed as part of Bid Pack C shall be re-installed unless a fixture count has been shown or new fixtures are to be installed.	4
134	Electrical	Please confirm that Electrical Drawings E-130, E-220 & E-230 no longer exist. There is no scope on the 3rd floor for lighting and there is no scope for power on the 2nd or 3rd floor.	Drawings listed are still part of the Electrical Set. The drawings issued are modifications to sheets provided.	4
135	Electrical	Electrical Drawing E-200 shows a 200amp Disconnect ahead of the New 112.5 KVA Transformer which feeds New Panel "KA". The Electrical Single Line, E-601, does not show any 200amp Disconnects. Please advise if a 200Amp Disconnect is required and update drawings accordingly.	A 200 Amp disconnect shall be provided as shown on floor plans.	4
136	Electrical	Electrical Drawing E-601, Note #4, calls for 45kVA, 3PH, Dry Type Transformer. The Transformer between New PNL "LP-F" and New PNL "LPF-F" is shown as a 75kVA, but has Note #4 next to it. Please confirm all XFMR's between Branch Panels "LP - " should be 45kVA (total count of 6).	Transformer shall be 75 KVA.	4
137	Electrical	Please confirm the complete Electrical Scope for the work in the Boiler Room on E-402. Is the EC being asked to provide power to CT VFD-1 and CT VFD-2 only? Who is to provide the VFD's? Who is to furnish the disconnect? What size are the disconnects? Where are the disconnects fed from?	The VFD's are to be relocated and fed from same circuits.	4
138	Electrical	Electrical Drawing E-401 shows Floor Boxes in Kitchen, while Food Service Drawing FS-1.1 calls for wall mount receptacles. Which should be used for pricing?	Refer to the foodservice plan for rec locations. Provide additional plugs and receptacles for equipment requiring direct connection, as shown on electrical instead of disconnects.	4



RFI #	Category	Question	Response	Addendum No.
139	Electrical	What do the green lines shown on the T and TY Drawings indicate?	ESP - disregard, just a visibility issue in Revit.	4
140	Electrical	Is the EC to furnish and install the Hubbell HLB985 Boxes shown in the details on Drawing T-502?	ESP - our understanding is the electrical contractor will provide/install pathways for the T & TY drawings.	4
141	Electrical	The Telecommunications details call for an Electrical outlet next to each type of T/D Device. Please confirm the quantities of Duplex and Double Duplex Outlets should be taken off the Electrical Drawings in lieu of Telecom Drawings.	ESP - Incorrect, the technology drawings should be followed for electrical requirements for low voltage outlets. See Sheet T-502 Pathways for associated electrical receptacle types.	4
142	Electrical	The "GB" symbol can be found several times on the TY Security Drawings, but is not listed on the symbols legend. Please advise what the EC is to include at each of these device locations.	ESP - GB is a Glass Break detector. ESP to revise the symbol legend on Sheet TY-000.	4
143	Electrical	The EC is being asked to provide Rough-In and Raceways for Telecom and Security Wiring. In addition, EC is to install J-Hooks for common pathways. Are Security Cabling and Telecommunications Cabling able to be run in the same J-Hooks or do each need their own designated J-Hooks?	ESP – We would recommend separate j-hook for security wiring, along the same horizontal/backbone pathways as other low voltage wiring.	4
144	Electrical	The RFI Log issued in Addendum #3 provided a catalog number for Floor Boxes and Poke-Thrus that differs from the information found on the Telecom Drawings for Floor Boxes and Poke-Thrus. Please see Drawing T-502 and advise as to which the EC should use for pricing.	Use Telecom Drawing for pricing for floor boxes.	4
145	Electrical	Is Lightning Protection required on this project? If so, is it part of the EC's scope? Please provide further information as to what is expected in order to provide accurate pricing and coverage.	We are not modifying the existing lighting protection system under this scope of work. All connections to the lightning protection system should be outside of the building. In the case of building envelope changing maintain continuous path to ground connection outside of building.	4



RFI #	Category	Question	Response	Addendum No.
146	Electrical	Electrical Drawing E-501, Detail 4, from the Addendum #1 Drawings calls for a Lighting Contactor. This drawing was omitted from Addendum #3. Is the Lighting Contactor no longer required? If so, please provide the mounting location on the drawing for take-off purposes.	Drawings listed are still part of the Electrical Set. The drawings issued for addendums are modifications to sheets provided and should only replace such sheets.	4
147	Electrical	Please confirm that the Demo called-out on Addendum #1 on Electrical Drawing ED-401 is still to be included in this pricing.	Yes, it shall be included in pricing.	4
148	Electrical	Please confirm that the Addendum #1 Fire Alarm Drawings and Food Service Drawings are the most recent and should be used for pricing.	Not applicable to Bid Pac D.	4
149	Electrical	Please confirm that the panel schedules found on the Addendum #1 Drawings E-605, E-606 and E-607 are still to be included in pricing, as they were left off Addendum #3.	Drawings listed are still part of the Electrical Set. The drawings issued for addendums are modifications to sheets provided and should only replace such sheets.	4
150	Electrical	Panel location discrepancies still exist in the Addendum #3 Drawings. Please advise as to which locations hold precedence: Locations found on Panel Schedules or Locations shown on Floor Plans.	Locations found on drawings hold precedence.	4
151	Electrical	Please provide a panel schedule for newly added Panel "EM-110."	Panel EM110 shall match old printed panel schedule and branch breaker sizes. Quantity 10 – 20A, 1P and 1 – 40A 2Pole	4
152	Electrical	Please confirm New Panel "EM-110" is to be fed from Existing Panel "EM-1" via a 20/2p Breaker.	It is an existing 100A breaker on panel EM-1	4
153	Arch	Doors #166 & #167 are listed in hardware group #5 however these doors are not listed on the door schedule.	Doors #166 & #167 do not exist and have been removed from the revised section 087100 attached to Bid Pack D Addendum #4	4
154	Arch	Doors #100A & #100B are listed in hardware group #6 however these doors are not listed on the door schedule.	Doors #100A & #100B do not exist and have been removed from the revised section 087100 attached to Bid Pack D Addendum #4	4



RFI #	Category	Question	Response	Addendum No.
155	Arch	Door #124 is listed in both hardware groups #3 and #7.	See revised section 087100 attached to Bid Pack D Addendum #4 for Door #124 hardware group.	4
156	Arch	Door #130 is listed in hardware group #14 however this door is not listed on the door schedule.	Door #130 does not exist and has been removed from the revised section 087100 attached to Bid Pack D Addendum #4	4
157	Arch	Door #135 is listed in hardware group #16 however this door is not listed on the door schedule.	Door #135 does not exist and has been removed from the revised section 087100 attached to Bid Pack D Addendum #4	4
158	Arch	Doors #027-1, ST01A, ST02A, and ST13A do not have an assigned hardware group.	Door #027-1 has been added to the revised section 087100 attached to Bid Pack D Addendum #4. Doors ST01A, ST02A, and ST13A are exterior doors and will be addressed in a future document.	4