SENIOR CENTER
15 LOUIS LANE
COLCHESTER, CT 06415
BID #2022-013

S/P+A PROJECT #20.003

DATE: September 22, 2022

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Addendum #1.

General Information:

- The prebid conference sign-in sheet is attached for reference. (2)
- Prebid conference meeting minutes are added and attached as part of this addendum. (1)
- The deadline for RFIs is Tuesday, October 4, 2022, 2:00pm.
- See attached RFI log. (1)

New Specifications:

- SECTION 083313, COILING COUNTER DOORS has been added and is attached as part of this addendum. (6)

Changes to the Specifications:

- COVER, revise "LEBANON AVENUE" to read "15 LOUIS LANE".
- TABLE OF CONTENTS:
    - Page 1, revise "LEBANON AVENUE" to read "15 LOUIS LANE".
    - Page 2, Division 08 – Openings, add the following:

      "Section 083313 Coiling Counter Doors 6"

- SUPPLEMENTARY INSTRUCTIONS TO BIDDERS:
    - Page 1, Article 1.1.B., delete in its entirety.
    - Page 2, under TITLE PAGE, revise "Lebanon Avenue" to read "15 Louis Lane".
    - Page 6, Article 9.4, last sentence, revise "at a cost" to read "NO cost" and "including" to read "excluding".
- DRAWING LIST:
    - Page 1, revise "LEBANON AVENUE" to read "15 LOUIS LANE".
    - Page 4, Food Service Drawings, revise "FS806" to read "FS807".

- SUPPLEMENTARY GENERAL CONDITIONS, Page 3, Article 3.7.1., revise "Contractor" to read "Town of Colchester".

- SECTION 064023, INTERIOR ARCHITECTURAL WOODWORK, Page 1, Article 1.2.A.2., delete in its entirety.

- SECTION 093000, TILING, Page 2, Part 1, add the following:

  "1.11 MAINTENANCE MATERIAL SUBMITTALS

  A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.

  1. Tile and Trim Units: Furnish quantity of full-size units equal to three percent (3%) of amount installed for each type, composition, color, pattern, and size indicated.
  2. Grout: Furnish quantity of grout equal to three percent (3%) of amount installed for each type, composition, and color indicated."

- SECTION 122413, ROLLER WINDOW SHADES, Page 3, Article 2.2.E.1., revise to read as follows:

  "Exposed Headbox: Rectangular, extruded-aluminum enclosure including front fascia, top and back covers, endcaps, and removable bottom closure.

  a. Height: Manufacturer's standard height required to enclose roller and shadeband assembly when shade is fully open, but not less than 4 inches."

New Drawings:

- DRAWING FS807, FOODSERVICE EQUIPMENT HOOD DETAILS has been added and is attached as part of this addendum.*

Changes to the Drawings:

- DRAWING G001, List of Drawings, Volume 2, Food Service Drawings, add the following:

  "FS807 FOODSERVICE EQUIPMENT HOOD DETAILS"

- The following CIVIL drawings have been deleted in their entirety. New drawings have been added and are attached as part of this addendum.* (2)

  - C004 SITE PLAN – GRADING
  - C005 SITE PLAN – UTILITIES

- The following ARCHITECTURAL drawings have been deleted in their entirety. New drawings have been added and are attached as part of this addendum.* (2)

  - A110 MAIN LEVEL FLOOR PLAN
  - A910 DOOR SCHEDULE, ELEVATIONS & DETAILS

- The following STRUCTURAL drawings have been deleted in their entirety. New drawings have been added and are attached as part of this addendum.* (2)

    - S100 FOUNDATION PLAN
    - S201 STRUCTURAL SECTIONS

- DRAWING M100, MAIN LEVEL MECHANICAL PLAN has been deleted in its entirety. A new M100 has been added and is attached as part of this addendum.*

- The following FOOD SERVICE drawings have been deleted in their entirety. New drawings have been added and are attached as part of this addendum.* (7)

    - FS800-FS806 FOODSERVICE EQUIPMENT HOOD DETAILS

The bid date has been extended to Thursday, October 13, 2022 at 2:00pm by this addendum.
The addendum consists of thirteen (13) pages of 8½" x 11" text and fifteen (15) 30" x 42" drawings*.
End of Addendum #1

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Sign-in Sheet
9/20/2022

Project: Colchester Senior Center Pre-Bid Conference (Non-Mandatory)
Colchester Town Hall – Meeting Room #1 - 10:00 am.

NAME	COMPANY	PHONE	EMAIL
Martin NOSal	DEF Services group	860 836 0220	mnosal@defsg.com
David St. Onge	SK Mechanical	860-533-2320	Kbayha@skmechanical-llc.com
Justin Caporiccio	Enterprise Builders	860.466.5104	Jcaporiccio@enterbuilders.com
Allison Annulli	Orlando Annulli & Sons	860 644 2427	AARON@ANNULLI.COM
Andrew Fasquini	Montagno	203-597-9014	Afasquini@montagno.com
Norm Beehard	Bratton National	978-399-4225	Nbeehard@bratton.net.
Erik Schubert	CT Temperature Controls	800-406-2778	ESchubert@CTTempControls.com
Jonathan Sygrove	Sarazin General Contractors	860-456-45576	jsygrove@sarazin.com psarazin@Sarazin.com
JACOB GAWENDO	THE NUTMEG COMPANIES, INC	860 8231780	BIDS@NUTMEGCOMPANIES.COM

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Sign-in Sheet
9/20/2022

Project: Colchester Senior Center Pre-Bid Conference (Non-Mandatory)
Colchester Town Hall – Meeting Room #1 - 10:00 am.

NAME	COMPANY	PHONE	EMAIL
Kevin McDonnell	PAC Group LLC	860-485-9363	Kmcdonnell@PACGroupLLC.com
Pete Cappello	J A Rosa Constructn	2038393495	pete@jarosa.com
ROEL LEGASPI	NOSAL BUILDERS, INC.	203-439-9320	roel@nosalbuilders.com
Brian Logie	Newfield Construction	860-463-4988	brianlogie@newfieldconstruction.com
Steve Christmas	Electrical Contractors	860-549-2822	SteveCG@ecincorporated.com
LEO DESANTELS	W.J. MOUNTFORD CO.	860-729-9449	LDESANTELS@WJMOUNTFORD.com
Brian Karwowski	Sav-Mor Cooling + Heating	860-621-9959	Brian@savmorct.com

September 20, 2022

Minutes of Meeting

Colchester Senior Center – Pre-Bid Conference (Non-Mandatory)
Colchester Town Hall – Meeting Room #1 – 10:00am

- This meeting is non-mandatory. All discussions and comments made during this meeting are non-binding unless specifically identified in the Minutes of Meeting to be issued via Addendum #1. Should a contractor find that a question or topic of conversation not be captured in said minutes, an official RFI shall be issued so that the question is formalized and answer made available to all bidders.
- This project is receiving state funding – therefore, prevailing wage rates and CHRO requirements apply.
- Bid's will be received in Selectman's office (2nd floor of Town Hall) until 2:00 pm, on Thursday, October 6, 2022, at which time bids will be read aloud in Meeting Room #1. (Update 9/22 – Due to RFI requests following the pre-bid meeting, the bid period has been extended. Please refer to Addendum #1 for new bid date)
- Last day for RFIs (1 week prior to bid opening) – September 29th @ 2:00 pm. (Update 9/22 – Due to RFI requests following the pre-bid meeting, the last day for RFIs has been extended. Please refer to Addendum #1 for RFI deadline)
- Bid bond (5%), performance bond, and labor & material bond are required per the Invitation to Bid.
- Bids must be held for 90 days beyond bid date although the Town intends to execute the contract as close to the bid date as possible.
- Documents are available for no charge on Town of Colchester's website (RFP# 2022-013).
- All addenda will be posted on the Town's website – contractors are responsible for downloading all addenda. An email notification will be sent to everyone on the sign in sheet when an addendum posts.
- Project Construction Schedule – 365 days from notice to proceed.
- Project Budget - $8M (Update 9/22 - We wish to clarify that $7.5M is the hard construction cost budget – the additional $500,000 on top of that is for FF&E/Technology which is outside of the General Contractor's scope of work)
- Alternates – There are 7 defined alternates plus a voluntary alternate. Given the state of the construction industry, lead times, and supply chain issues, we encourage contractors to propose voluntary alternates at the time of bid.
- Substitutions requests shall be made via the process outlined in the project manual. Substitution requests must be received during the RFI period.
- Utility Connection fees will be paid by Town. This item will be clarified via Addendum #1.
- Christopher Nardi gave a brief description of the project – All bidders shall rely on the contract documents for scope of work.
- Sign in sheet will be issued via addendum.
- The floor was opened for contractor questions:
    - What is the Site Address? **15 Louis Lane**
    - When will the notice to proceed be issued? **Dependent on State review, contract, and bonds, but 3-4 weeks after the bid opening is the target**
    - CHRO amounts will be dictated by the percentage of the project that is State funded. Can you provide the total amount of state funding? **$2.5 million (confirmed following the pre-bid meeting)**
    - Are permit fees waived? **Town fees are waived, State of CT permit education fee is required**
    - Will inspections run through town? **Yes**

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SILVER/PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

BID RFI LOG

Project: **Colchester Senior Center**
Bid # **2022-013**
S/P+A Project #: **20.003**

RFI Deadline: **10/04/22**
Bids Due: **10/13/22**

RFI #	QUESTION	DATE RECEIVED	RESPONSE	ADDENDUM # ISSUED
001	What is the Senior Center site address?	09/16/22	15 Louis Lane	1
002	What is the start and completion date?	09/16/22	365 days following Notice to Proceed as indicated in the Bid Form. Notice to Proceed expected to be issued 3-4 weeks following bid opening.	1
003	There is a note for the Contractor to pay for all utilities, is this accurate?	09/16/22	The Town of Colchester will pay all utility connection fees. Refer to Addendum #1.	1
004	Will the town waive the permit fees?	09/16/22	Yes, except for the State of CT Building Permit Education fee.	1
005	Spec section 074113.16 Standing Seam calls for a 1.5" panel, but does not give the panel coverage (width). Drawings scale to a 24" panel. However, that would be a custom width. Please confirm this is what the architect/owner wants. Available widths are 12", 16" or 20". Please advise.	09/20/22	The intent is to provide the widest, standard panel width. For the Basis-of-Design (ATAS 1-1/2-inch Field-Lok) this would be the 20.75-inch panel. Note that other manufacturer's standard widths may vary.	1
006	Please provide detailed ductwork information around the DOAS unit.	09/20/22		
007	Is there any possibility that the bid date would be extended?	09/20/22	Bid date has been extended. Refer to Addendum #1.	1
008	Regarding the window treatments, the specs call for shades with a front fascia, but detail 2/A550 shows a recessed shade box. Details 7/A550 and 1/A552 also show a shade box below the ceiling. Please clarify if all shades are to receive front fascia only, or if some will be requiring shade pocket (recessed or surface mounted).	09/21/22	Window treatments are to have a front & back fascia (also referred to as a headbox). This headbox is to be installed exposed and recessed as indicated in the Drawings. Refer to Addendum #1.	1
009	Can the bid be extended 1 week?	09/21/22	Refer to RFI #007.	1
010	Are lockers included in this project? If so, please provide specs.	09/21/22	No.	1
011	The specs have cabinetry in Division 6 but the drawings call them casework. Please advise.	09/21/22	Casework is an overall description for cabinety and millwork. Refer to both Sections 064023 & 064113.	1
012	Are there Liquidated Damages on this project?	09/21/22	Per the DECD, liquidated damages are not required.	1
013	At the prebid meeting we were told that the duration is 12 months but the RFP says 18 months. Please advise.	09/21/22	The construction duration is 365 days for Substantial Completion, as noted on the Bid Form.	1
014	Who is the obligee for the bid bond and their address?	09/21/22	The obligee is the Town of Colchester at 127 Norwich Avenue.	1

SECTION 083313 - COILING COUNTER DOORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Counter door assemblies.

1.3 ACTION SUBMITTALS

A. Product Data: For each type and size of coiling counter door and accessory.

1. Include construction details, material descriptions, dimensions of individual components, profiles for slats, and finishes.

B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.

1. Include plans, elevations, sections, and mounting details.
2. Include details of equipment assemblies, and indicate dimensions, required clearances, method of field assembly, components, and location and size of each field connection.
3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.

C. Samples: Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.

1. Include similar Samples of accessories involving color selection.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and testing and inspecting agency.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For coiling counter doors to include in maintenance manuals.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.

1.7 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of overhead coiling doors that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures including, but not limited to, excessive deflection.
b. Faulty operation of hardware.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use; rust through.
d. Delamination of exterior or interior facing materials.

2. Warranty Period: Two (2) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain coiling counter doors from single source from single manufacturer.

1. Obtain operators and controls from coiling counter door manufacturer.

2.2 COUNTER DOOR ASSEMBLY

A. Counter Door: Coiling counter door formed with curtain of interlocking metal slats.

1. Basis-of-Design Product:

a. Cookson, a Cornell Cookson company; **Model #ESC20**

2. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. C.H.I. Overhead Doors, Inc.
b. Cornell, a Cornell Cookson company
c. Overhead Door Corporation
d. Raynor Garage Doors
e. Wayne-Dalton Corp.
f. Substitutions: Under provisions of Section 012500 “Substitution Procedures”.

B. Operation Cycles: Door components and operators capable of operating for not less than twenty thousand (20,000) cycles. One (1) operation cycle is complete when a door is opened from the closed position to the fully open position and returned to the closed position.

C. Door Curtain Material: Stainless-steel .

D. Door Curtain Slats: Flat profile slats of 1½-inch center-to-center height.

E. Bottom Bar: Manufacturer's standard continuous channel or tubular shape, fabricated stainless-steel and finished to match door.

F. Curtain Jamb Guides: Stainless-steel with exposed finish matching curtain slats. Provide continuous integral wear strips to prevent metal-to-metal contact and to minimize operational noise.

G. Hood: Match curtain material and finish.

1. Shape: Square.
2. Mounting: Face of wall.

H. Sill Configuration: Integral metal sill, rectangular shape for between jambs mounting.

I. Locking Devices: Equip door with locking device assembly.

1. Locking Device Assembly: Single-jamb side operable from inside and outside with cylinders.

J. Manual Door Operator: Push-up operation.

K. Curtain Accessories: Equip door with push/pull handles and pull-down strap.

L. Door Finish:

1. Stainless-Steel Finish: ASTM A 480 No. 4 (polished directional satin).

2.3 DOOR CURTAIN MATERIALS AND FABRICATION

A. Door Curtains: Fabricate coiling counter door curtain of interlocking metal slats in a continuous length for width of door without splices. Unless otherwise indicated, provide slats of thickness and mechanical properties recommended by door manufacturer for performance, size, and type of door indicated, and as follows:

1. Stainless-Steel Door Curtain Slats: ASTM A 240 or ASTM A 666, Type 304; sheet thickness of 0.025-inch; and as required.

B. Curtain Jamb Guides: Manufacturer's standard angles or channels and angles of same material and finish as curtain slats unless otherwise indicated, with sufficient depth and strength to retain curtain, to allow curtain to operate smoothly, and to withstand loading. Slot bolt holes for guide adjustment. Provide removable stops on guides to prevent overtravel of curtain.

2.4 HOODS

A. General: Form sheet metal hood to entirely enclose coiled curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting that projects beyond wall face. Equip hood with intermediate support brackets as required to prevent sagging.

1. Stainless-Steel: 0.025-inch-thick, stainless-steel sheet, Type 304, complying with ASTM A 240 or ASTM A 666.

2.5 LOCKING DEVICES

A. Locking Device Assembly: Fabricate with cylinder lock, spring-loaded dead bolt, operating handle, cam plate, and adjustable locking bars to engage through slots in tracks.

1. Lock Cylinders: As standard with manufacturer and keyed to building keying system.
2. Keys: Two (2) for each cylinder.

2.6 CURTAIN ACCESSORIES

A. Push/Pull Handles: Equip each push-up-operated or emergency-operated door with lifting handles on each side of door, finished to match door.

2.7 COUNTER DOOR ACCESSORIES

A. Integral Metal Sill: Fabricate sills as integral part of frame assembly of Type 304 stainless-steel in manufacturer's standard thickness with ASTM A 480 No. 4 finish.

2.8 COUNTERBALANCE MECHANISM

A. General: Counterbalance doors by means of manufacturer's standard mechanism with an adjustable-tension, steel helical torsion spring mounted around a steel shaft and contained in a spring barrel connected to top of curtain with barrel rings. Use grease-sealed bearings or self-lubricating graphite bearings for rotating members.

B. Counterbalance Barrel: Fabricate spring barrel of manufacturer's standard hot-formed, structural-quality, welded carbon-steel pipe, of sufficient diameter and wall thickness to support rolled-up curtain without distortion of slats and to limit barrel deflection to not more than 0.03 in./ft. of span under full load.

C. Counterbalance Spring: One (1) or more oil-tempered, heat-treated steel helical torsion springs. Size springs to counterbalance weight of curtain, with uniform adjustment accessible from outside barrel. Secure ends of springs to barrel and shaft with cast-steel barrel plugs.

D. Torsion Rod for Counterbalance Shaft: Fabricate of manufacturer's standard cold-rolled steel, sized to hold fixed spring ends and carry torsional load.

E. Brackets: Manufacturer's standard mounting brackets of either cast iron or cold-rolled steel plate.

2.9 MANUAL DOOR OPERATORS

A. General: Equip door with manual door operator by door manufacturer.

B. Push-up Door Operation: Design counterbalance mechanism so that required lift or pull for door operation does not exceed 25 lbf.

2.10 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM/NOMMA 500 for recommendations for applying and designating finishes.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.11 STAINLESS-STEEL FINISHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.

1. Run grain of directional finishes with long dimension of each piece.
2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
3. Directional Satin Finish: ASTM A 480 No. 4.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates areas and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. Install coiling counter doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports, according to manufacturer's written instructions and as specified.

B. Install coiling counter doors, hoods, controls, and operators at the mounting locations indicated for each door.

3.3 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections and to furnish reports to Architect.

B. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.

C. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.

3.4 ADJUSTING

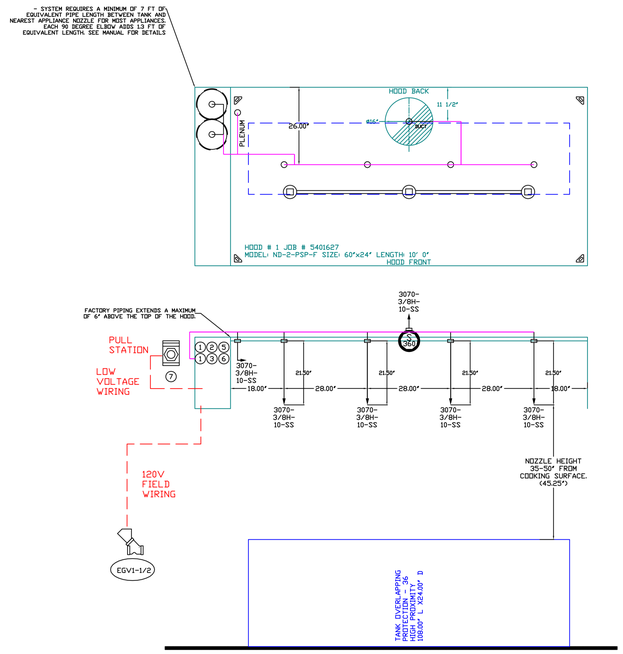
A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.

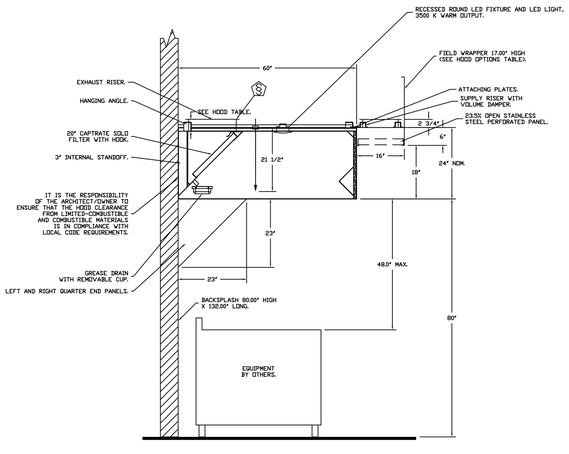
B. Lubricate bearings and sliding parts as recommended by manufacturer.

3.5 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain coiling counter doors.

END OF SECTION 083313





SECTION VIEW – MODEL 6024ND-2-PSP-F HOOD – #1

NOTES
- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH UL. 300 REQUIREMENTS.

JOB #: 5401627.
JOB NAME: COLCHESTER SENIOR CENTER.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 24.
HOOD # 1 10' 0.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

SECTION 21 23 00
WET- CHEMICAL FIRE-EXTINGUISHING SYSTEMS
TAG: TANK Fire Suppression

PART 1- GENERAL
1.1 SUMMARY
A. TANK Fire Suppression is a pre-engineered, stored-pressure wet chemical solution extinguishing system.

1.2 SUBMITTALS
A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the requirements of the project and meet Federal, State, and Local codes.
B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

1.3 QUALITY ASSURANCE
A. TANK Fire Suppression System shall be UL & ULC listed in accordance with UL300, UL1254, ULCORD-C1254.6.
B. Microprocessor-based control board shall be ETL Listed to UL Standard 864 and CAN/ ULC-S527-11.
C. TANK Fire Suppression System intended for installation and for use in accordance with the National Fire Protection Association Standards:
1. Wet Chemical Extinguishing Systems, NFPA 17A
2. National Electrical Code, NFPA 70
3. National Fire Alarm & Signaling Code, NFPA 72
D. New York City and FDNY approved under COA# 5870.
E. California State Fire Marshal (CFSM), Listing No. 7085-2199:0502.

1.4 WARRANTY
A. All units shall be provided with the following standard warranties:
1. TANK Fire Suppression System is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 60-months from date of shipment.
B. Warranty does not cover consumable products such as batteries and nitrogen.
C. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 60-month warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

D. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2- PRODUCTS
2.1 GENERAL
A. A pre-engineered, fixed pipe, automatic wet chemical agent fire suppression system for protection of all hazard areas associated with cooking operations, including exhaust hoods, plenums, ductwork, and cooking appliances.

2.2 COMPONENTS
A. Exhaust hood fire system components to be factory installed.
B. Cylinder and Valve Assembly
1. The cylinders shall have a tin-nickel alloy plated brass valve with pressure gauge.
2. Wet chemical agent shall be contained in one or more stored pressure DOT/TC rated steel cylinder and valve assemblies.
3. Each cylinder is factory-filled with liquid fire suppressant and pressurized to 200 PSIG at 70°F.
C. Distribution Nozzles
1. Nozzles shall be located to protect the exhaust ducts, plenums, and all cooking appliances requiring protection.
2. All nozzles shall be equipped with a metal blow off cap. The cap prevents contamination from entering the pipe network and is designed to pop-off upon system discharge, allowing agent to flow to the protected hazard area.
3. All nozzles shall incorporate a stamped part number to easily identify nozzle type.
D. Distribution System
1. The distribution system shall consist of Copper, Schedule 40 black iron, chrome-plated or stainless-steel pipe and fittings. All exposed piping and fittings must be chrome-plated or stainless steel.
2. Fittings shall be minimum class 150. Galvanized fittings shall not be used.
E. Suppression System
1. The system control equipment shall be capable of all functions associated with automatically and manually discharging the wet chemical agent from all cylinder and valve assemblies, including automatic shutdown of the heat source or fuel and electrical power to all protected areas upon system discharge.
2. Liquid Fire Suppressant shall be Aqueous Potassium Carbonate (APC).
3. All mechanical components of the actuator kit shall be enclosed.
4. The actuator kit shall be capable of automatic or manual activation means.
5. Supervisory Pressure Switch added to monitor operating system pressure.
6. For manual activation, an electrically operated manual release shall be used to actuate the system manually.
7. For automatic activation, the system will be activated by a Firestat (heat) detector.

F. Electrical
1. Electrical Division to provide shunt trip breakers at main power panel, or disconnects, as designated by the Electrical Engineer; interconnection provided at hood control panel for the signal to shut down all electricity in and under the exhaust hood. Shunt trips/disconnects to accomplish shut off of electricity in the event of fire system activation by others.
2. Printed circuit board with microprocessor-based controller that provides all the necessary monitoring, timing, and supervision functions required for the reliable operation of the fire system.
3. Independent supervised loops incorporate redundancy and fault detection.
4. Real-time cloud-based monitoring connection provided with system by ownership.
5. Primary power supply, with battery backup for power loss.
6. All wiring must be in accordance to NFPA 70 and the Authority Having Jurisdiction (AHJ).
7. Electric gas valve provided for equipment below exhaust hood. Coordinate size and installation with Plumbing Division.
8. All wiring is to be in accordance with the applicable manufacturer's instructions for the fire alarm control panel, gas shut-off valve, manual reset relay, and contractor supplied shut-off devices.

PART 3- EXECUTION
3.1 EXAMINATION
A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to Installer.

3.2 APPLICATION
A. Wet chemical-based fire suppression system for use in commercial kitchens. It can be mounted in the integral cabinet located at the end of the hood or offered as a wall mount package.

3.3 INSTALLATION
A. As part of this item, provide wall mounted type K handheld portable fire extinguisher, placard, and mounting bracket as required in the immediate vicinity of each cooking area, per NFPA-96 and NFPA-10. Additional fire extinguishers as required in the kitchen area are to be specified by the Architect and provided by the General Contractor.
B. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.
C. Six-month and twelve-month inspections, servicing, and replacement of components as per NFPA 96 to be provided by the General Contractor or Owner.

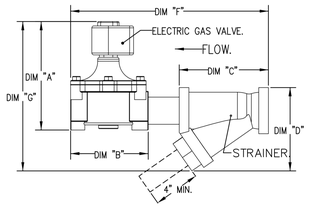
VALVE SIZE MUST BE VERIFIED

GAS VALVES AND STRAINERS

	GAS VALVE SIZING					GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS			
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#	ELECTRICAL	1-1/2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,406,000 BTU/HR	1,561,219 BTU/HR	7-5/8"	6-3/8"	5-3/4"	6-3/16"	14-1/8"	12-5/16"	HORIZONTAL/ VERTICAL	8214275	441780	(SC)EGV1A1-1/2

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.45}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



FIRE SYSTEM INFORMATION – JOB#5401627

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	24	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.500	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER – PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 – 0 – 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. ND, CLOSE ON TEMP RISE AT 360°F.	1	0
		0 – 0 – 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) – SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300001-001 TANK – PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 – 0 – 87-300030-001 PRIMARY ACTUATOR KIT (PAK) – ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 – 0 – 986944115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 – 0 – A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 – 0 – DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – TANK STRAP TANK STRAP – USED FOR TANK FIRE SUPPRESSION.	6	0
		0 – 0 – TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		34 – 34 – A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted ☐
Approved with NO Exception Taken ☐
Revise and Resubmit ☐
SIGNATURE _____
Your Title _____ Date _____

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

CAPTIVEAIRE
New England Office
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Colchester Senior Center
COLCHESTER, CT, 06415

DATE: 7/13/2022
DWG.#: 5401627
DRAWN BY: TSH-37
SCALE: 1/2" = 1'-0"
MASTER DRAWING

SHEET NO. 8

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
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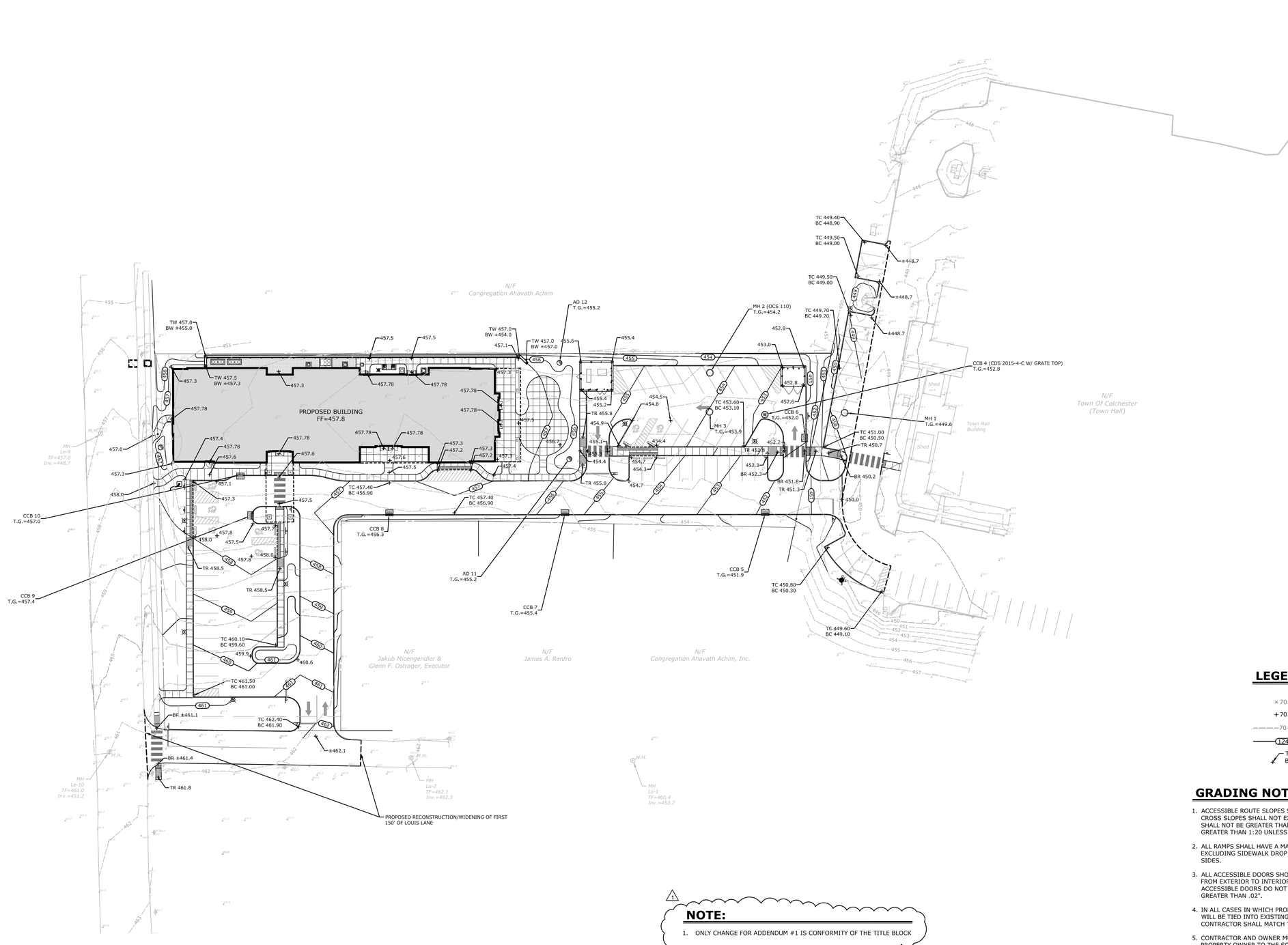
silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title:
FOODSERVICE EQUIPMENT
HOOD DETAILS

Date: SEPTEMBER 09, 2022
Scale:
Drawn By: Author
Project Number: 20.003
Drawing Number: FS807



LEGEND

×70.5	EXISTING SPOT ELEVATION
+70.5	PROPPOSED SPOT ELEVATION
——70——	EXISTING CONTOUR
124	PROPOSED CONTOUR
TC 120.0 BC 119.5	TOP OF CURB BOTTOM OF CURB

GRADING NOTES:

1. ACCESSIBLE ROUTE SLOPES SHALL BE 1:20 (5%) OR LESS AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/2 INCH, AND SLOPES SHALL NOT BE GREATER THAN 1:20 UNLESS RAMPS OR LIFTS ARE PROVIDED.
2. ALL RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12. ALL RAMPS, EXCLUDING SIDEWALK DROP RAMPS, SHALL HAVE HANDRAILS ON BOTH SIDES.
3. ALL ACCESSIBLE DOORS SHOWN ARE .02" DIFFERENCE IN ELEVATION FROM EXTERIOR TO INTERIOR FINISHED FLOOR ELEVATIONS. LINES AT ACCESSIBLE DOORS DO NOT INDICATE A CHANGE IN ELEVATION GREATER THAN .02".
4. IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE.
5. CONTRACTOR AND OWNER MUST COORDINATE CLOSELY WITH ADJACENT PROPERTY OWNER TO THE SOUTHWEST DURING CONSTRUCTION OPERATIONS ALONG PROPERTY LINE.

1

NOTE:

1. ONLY CHANGE FOR ADDENDUM #1 IS CONFORMITY OF THE TITLE BLOCK

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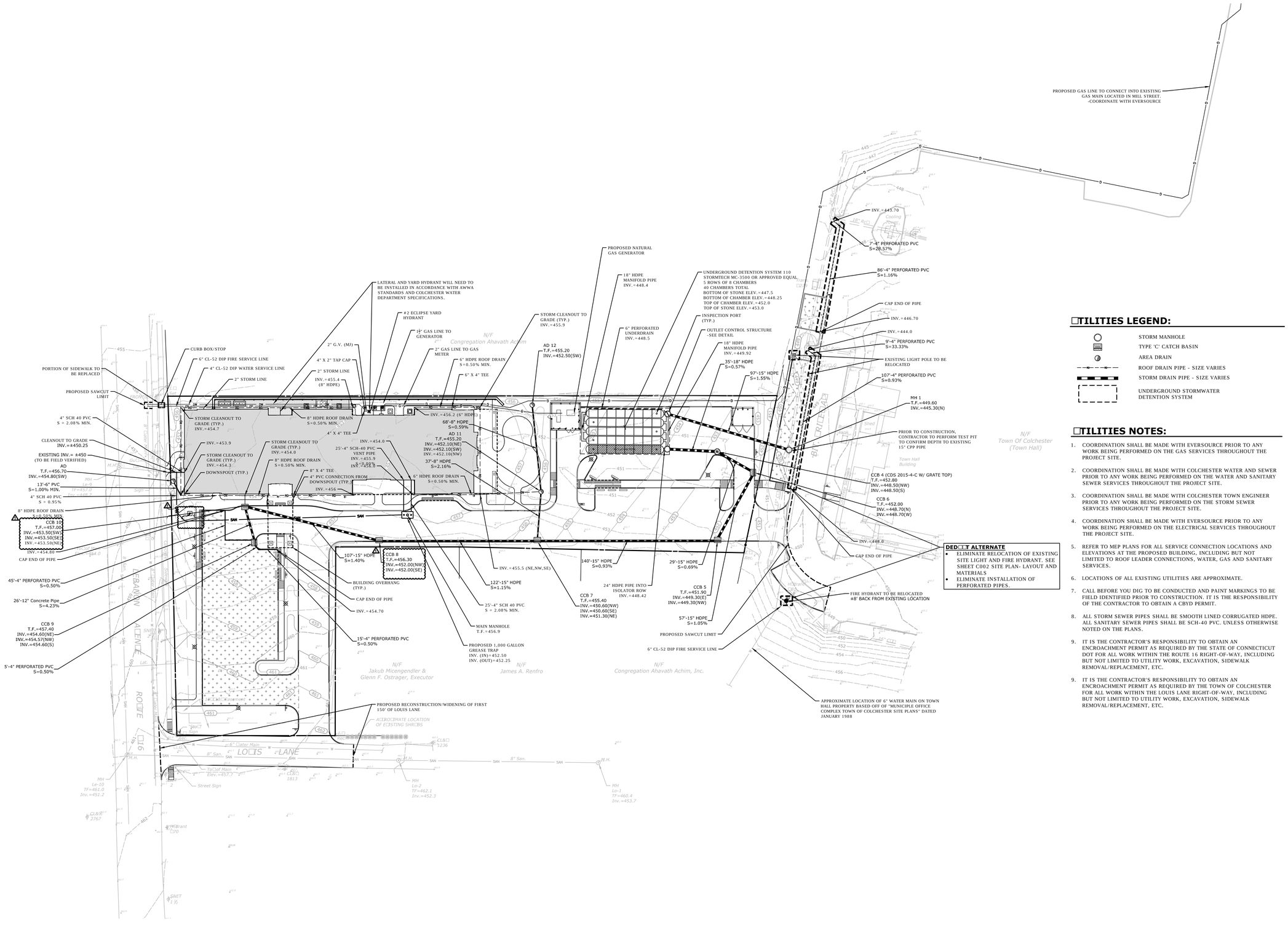
Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title:
SITE PLAN - GRADING

Date: JULY 23, 2022
Scale: 1" = 30'
Drawn By: JJM
Project Number: 20.003
Drawing Number: C004



DEDUCT ALTERNATE

- ELIMINATE RELOCATION OF EXISTING SITE LIGHT AND FIRE HYDRANT. SEE SHEET C002 SITE PLAN- LAYOUT AND MATERIALS
- ELIMINATE INSTALLATION OF PERFORATED PIPES.

UTILITIES LEGEND:

- STORM MANHOLE
- TYPE 'C' CATCH BASIN
- AREA DRAIN
- ROOF DRAIN PIPE - SIZE VARIES
- STORM DRAIN PIPE - SIZE VARIES
- UNDERGROUND STORMWATER DETENTION SYSTEM

UTILITIES NOTES:

1. COORDINATION SHALL BE MADE WITH EVERSOURCE PRIOR TO ANY WORK BEING PERFORMED ON THE GAS SERVICES THROUGHOUT THE PROJECT SITE.
2. COORDINATION SHALL BE MADE WITH COLCHESTER WATER AND SEWER PRIOR TO ANY WORK BEING PERFORMED ON THE WATER AND SANITARY SEWER SERVICES THROUGHOUT THE PROJECT SITE.
3. COORDINATION SHALL BE MADE WITH COLCHESTER TOWN ENGINEER PRIOR TO ANY WORK BEING PERFORMED ON THE STORM SEWER SERVICES THROUGHOUT THE PROJECT SITE.
4. COORDINATION SHALL BE MADE WITH EVERSOURCE PRIOR TO ANY WORK BEING PERFORMED ON THE ELECTRICAL SERVICES THROUGHOUT THE PROJECT SITE.
5. REFER TO MEP PLANS FOR ALL SERVICE CONNECTION LOCATIONS AND ELEVATIONS AT THE PROPOSED BUILDING, INCLUDING BUT NOT LIMITED TO ROOF LEADER CONNECTIONS, WATER, GAS AND SANITARY SERVICES.
6. LOCATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE.
7. CALL BEFORE YOU DIG TO BE CONDUCTED AND PAINT MARKINGS TO BE FIELD IDENTIFIED PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A CBYD PERMIT.
8. ALL STORM SEWER PIPES SHALL BE SMOOTH LINED CORRUGATED HDPE. ALL SANITARY SEWER PIPES SHALL BE SCH-40 PVC. UNLESS OTHERWISE NOTED ON THE PLANS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AN ENCROACHMENT PERMIT AS REQUIRED BY THE STATE OF CONNECTICUT DOT FOR ALL WORK WITHIN THE ROUTE 16 RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO UTILITY WORK, EXCAVATION, SIDEWALK REMOVAL/REPLACEMENT, ETC.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AN ENCROACHMENT PERMIT AS REQUIRED BY THE TOWN OF COLCHESTER FOR ALL WORK WITHIN THE LOUIS LANE RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO UTILITY WORK, EXCAVATION, SIDEWALK REMOVAL/REPLACEMENT, ETC.

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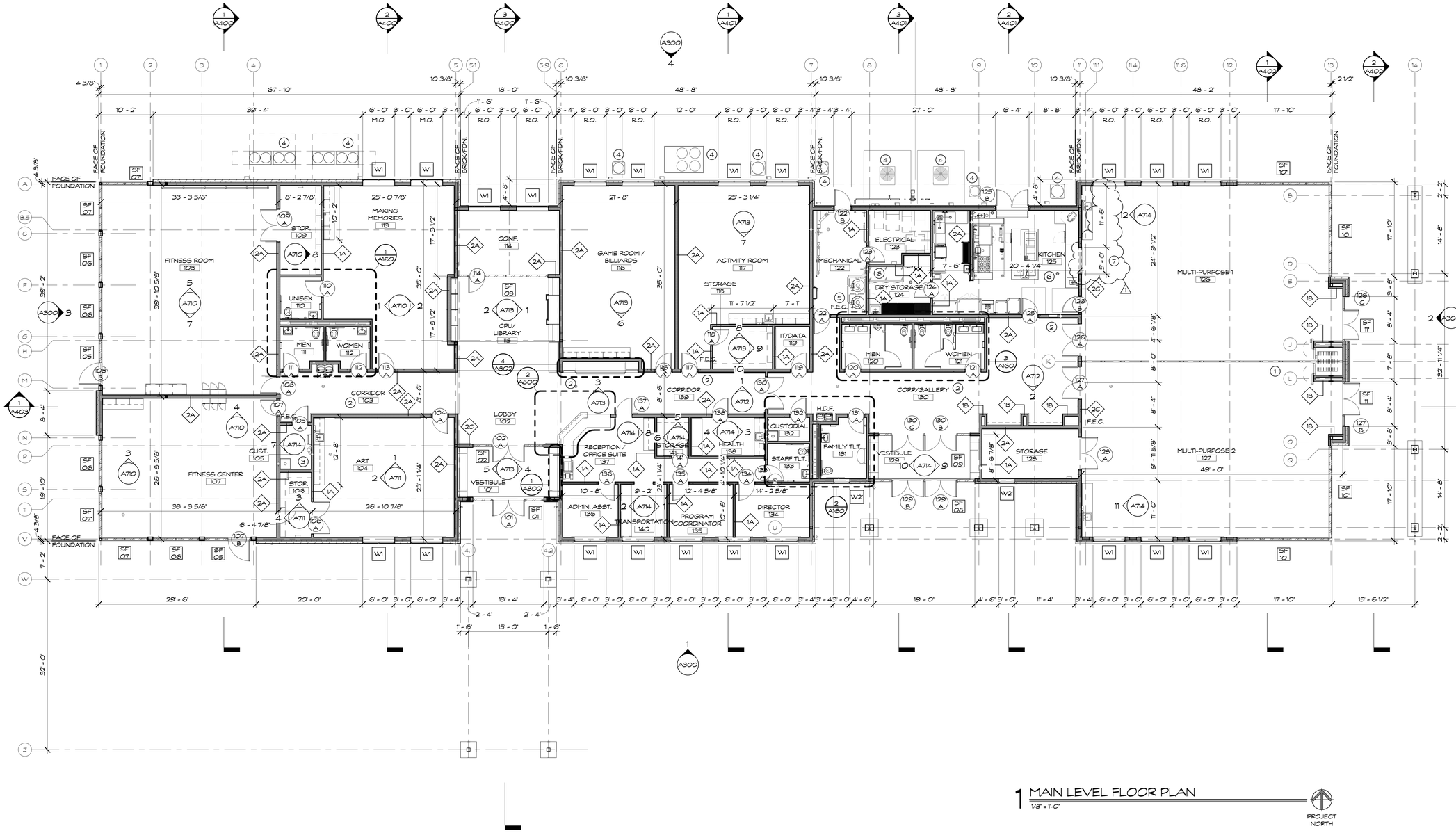
Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title:
SITE PLAN - UTILITIES

Date: JULY 23, 2022
Scale: 1" = 30'
Drawn By: ---
Project Number: 20.003

Drawing Number:
C005



1 MAIN LEVEL FLOOR PLAN
1/8" = 1'-0"

PROJECT NORTH

SYMBOL LEGEND

- NEW METAL STUD PARTITIONS
- NEW MASONRY WALL
- NEW CMU WALL
- 101 / A - DOOR NUMBER
- 11 - WINDOW TYPE
- Room name 101 - ROOM NAME / ROOM NUMBER
- E3.0 - PARTITION TYPE
- X - CONSTRUCTION NOTE
- 2 / A101 - EXTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 - INTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 - BUILDING SECTION NUMBER / SHEET NUMBER
- 2 / A101 - WALL SECTION NUMBER / SHEET NUMBER
- F.E.C. - RECESSED FIRE EXTINGUISHER CABINET (TYPICAL OF 4)
- H.D.F. - HANDICAPPED DRINKING FOUNTAIN

GENERAL NOTES

1. READ ALL GENERAL NOTES ON DRAWING G001.
2. CONTRACTORS SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.
3. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK, CONCRETE AND METAL FRAMING (OUTSIDE FACE OR CENTERLINE) UNLESS OTHERWISE NOTED.
4. ALL NEW INTERIOR WALL ASSEMBLIES SHALL EXTEND TO UNDERSIDE TRUSS BOTTOM CHORD UNLESS OTHERWISE NOTED
5. ALL EXTERIOR WALL FRAMING SHALL BE 6" CFMF STUDS @ 16" O.C. w/ 5/8" GYPSUM BOARD INTERIOR FINISH (PTD). REFER TO WALL SECTIONS AND SECTION DETAILS FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES - PLAN

1	12 HIGH ELECTRIC WALL w/ POCKET DOORS
2	PROVIDE WOOD WAINSCOT w/ BASE AND CHAIR RAIL THROUGHOUT ALL CORRIDORS AND LOBBIES. REFER TO SHEET A280 AND B/A803.
3	WALL MOUNTED LADDER TO MECHANICAL ATTIC ABOVE - PAINTED BLACK
4	CONDENSER UNIT ON CONCRETE PAD. REFER TO MECHANICAL AND CIVIL
5	PROVIDE AND COORDINATE CLEARANCES FOR PULL DOWN ATTIC STAIR ABOVE. REFER TO REFLECTED CEILING PLAN AND PROJECT MANUAL FOR ADDITIONAL INFORMATION
6	REFER TO FOOD SERVICE DRAWINGS FOR ALL KITCHEN EQUIPMENT AND EQUIPMENT LAYOUTS.
7	PROVIDE 5'-0" WIDE x 4'-0" HIGH WALL OPENING, w/ STAINLESS STEEL COILING DOOR, TRACK SYSTEM, AND PASS THROUGH SHELF. COORDINATE HEIGHT w/ KITCHEN WORK SURFACE TO PROVIDE SEAMLESS TRANSITION

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Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title:
MAIN LEVEL FLOOR PLAN

Date: SEPTEMBER 09, 2022
Scale: As indicated
Drawn By: C. NARDI
Project Number: 20.003

Drawing Number:
A110

DOOR SCHEDULE - FIRST FLOOR LEVEL

DOOR NUMBER	FROM ROOM No.	TO ROOM No.	DOUBLE LEAF DOOR	UNEVEN DOUBLE LEAF	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD DETAIL	JAMB DETAIL	SADDLE DETAIL	FRAME GLAZING	FIRE RATING: RESISTS PASSAGE OF SMOKE	FIRE RATING: 90 MINUTE LABELED	FIRE RATING: 60 MINUTE LABELED	FIRE RATING: 45 MINUTE LABELED	HARDWARE: NOT REQUIRED	HARDWARE: PANIC/EXIT DEVICE	HARDWARE: POSITIVE LATCHING	HARDWARE: ELECTRO-MAGNETIC HOLD	HARDWARE: DELAYED ACTION CLOSER	HARDWARE: PUSH PLATES/PULL HANDLES	HARDWARE: ALARMED EXIT - SEE ELEC.	HARDWARE: AUTOMATIC DOOR OPERATOR	HARDWARE: LEVER HANDLES	HARDWARE: KICK-PLATE	HARDWARE: TACTILE WARNING	HARDWARE: ACCESSIBLE THRESHOLD	SIGNAGE TYPE - SEE A920	SIGNAGE TEXT	REMARKS
101 A		101	●		6 - 0"	7 - 10 1/2"	3	AL	FF	GL-13	SEE REMARKS, ITEM 1											●	●	●			●	●					●				1,2,3
102 A	101	102	●		6 - 0"	7 - 10 1/2"	3	AL	FF	GL-10	SEE REMARKS, ITEM 1											●	●			●		●					●	S6	EXIT	1,2,3
104 A	104	103			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	ART	
105 A	105	103			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●		●					●	●		●	S1	CUSTODIAL	
106 A	106	104	●		6 - 0"	7 - 0"	1	WD	PTD		B	HM	PTD	HM-1	HM-1							●		●							●	●		●	S1	STORAGE	
107 A	107	103			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●		●					●	●		●	S1	FITNESS CENTER	5
107 B	107				4 - 0 1/2"	7 - 10 1/2"	3	AL	FF	GL-13	SEE REMARKS, ITEM 1											●	●	●		●		●					●	S6	EXIT	1,3,4
108 A	103	108			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	FITNESS ROOM	5
108 B		108			4 - 0 1/2"	7 - 10 1/2"	3	AL	FF	GL-13	SEE REMARKS, ITEM 1											●	●	●		●		●					●	S6	EXIT	1,3,4
109 A	109	108	●		6 - 0"	7 - 0"	1	WD	PTD		B	HM	PTD	HM-1	HM-1			●				●		●						●	●		●	S1	STORAGE	
110 A	110	113			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S5	UNISEX	
111 A	103	111			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S3	MEN	
112 A	112	103			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S2	WOMEN	
113 A	103	113			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	MAKING MEMORIES	
114 A	115	114			3 - 0"	7 - 10 1/2"	3	AL	FF	GL-10	SEE REMARKS, ITEM 1											●		●						●				S1	CONFERENCE	
116 A	102	116			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	GAME ROOM	
117 A	102	117			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	ACTIVITY ROOM	
118 A	117	118			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	STORAGE	
119 A	130	119			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●		●					●	●		●	S1	IT/DATA	
120 A	130	120			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●				●	●					●		●	S3	MEN	
121 A	121	130			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●				●	●					●		●	S2	WOMEN	
122 A	122	130			3 - 0"	7 - 0"	1	HM	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	MECHANICAL	
122 B	122				3 - 0"	7 - 0"	1	HM	PTD		A	HM	PTD	HM-2	HM-2							●		●		●		●		●	●		●	S1	MECHANICAL	3
123 A	122	123			3 - 0"	7 - 0"	1	HM	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	ELECTRICAL	
124 A	125	124			3 - 0"	7 - 0"	1	HM	PTD		A	HM	PTD	HM-1	HM-1			●				●		●						●	●		●	S1	DRY STORAGE	
125 A	130	125			3 - 0"	7 - 0"	1	HM	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	KITCHEN	
125 B	125		●		6 - 0"	7 - 0"	1	HM	PTD		B	HM	PTD	HM-2	HM-2							●		●				●		●	●		●	S1	KITCHEN	3
126 A	130	126	●		6 - 0"	7 - 0"	2	WD	PTD	GL-2	B	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	MULTI-PURPOSE 1	3,5
126 B	126	125			3 - 0"	7 - 0"	1	HM	PTD		A	HM	PTD	HM-3	HM-3							●						●			●		●	S1	KITCHEN	
126 C		126	●		5' - 6 29/32"	8' - 0 3/4"	3	AL	FF	GL-13	SEE REMARKS, ITEM 1											●	●	●		●		●					●	S6	EXIT	3
127 A	127	130	●		6 - 0"	7 - 0"	2	WD	PTD	GL-2	B	HM	PTD	HM-1	HM-1							●	●	●		●		●		●	●		●	S1	MULTI-PURPOSE 2	3,5
127 B	127		●		6 - 0"	8 - 1 1/2"	3	AL	FF	GL-13	SEE REMARKS, ITEM 1											●	●	●		●		●					●	S6	EXIT	3
128 A	128	127	●		6 - 0"	7 - 0"	1	WD	PTD		B	HM	PTD					●				●		●						●	●		●	S1	STORAGE	
129 A		129	●		6 - 0"	7 - 10 1/2"	3	AL	FF	GL-13	SEE REMARKS, ITEM 1											●	●	●		●	●	●					●				1,2,3
129 B		129	●		6 - 0"	7 - 10 1/2"	3	AL	FF	GL-13	SEE REMARKS, ITEM 1											●	●	●		●	●	●					●				1,2,3
130 A	102	130	●		6 - 0"	7 - 0"	2	WD	PTD	GL-2	B	HM	PTD									●	●	●		●				●	●		●				3,5
130 B	129	130	●		6 - 0"	7 - 10 1/2"	3	AL	FF	GL-10	SEE REMARKS, ITEM 1											●	●			●	●		●				●				1,2,3
130 C	129	130	●		6 - 0"	7 - 10 1/2"	3	AL	FF	GL-10	SEE REMARKS, ITEM 1											●	●			●	●		●				●	S6	EXIT	1,2,3
131 A	130	131			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S4	FAMILY RESTROOM	
132 A	132	130			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●		●					●	●		●	S1	CUSTODIAL	
133 A	133	137			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S5	UNISEX	
134 A	137	134			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S7	DIRECTOR	
135 A	137	135			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S7	PROGRAM COORDINATOR	
136 A	136	137			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S7	ADMIN	
137 A	102	137			3 - 0"	7 - 0"	2	WD	PTD	GL-2	A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	OFFICE SUITE	
138 A	138	102			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	HEALTH	
141 A	141	137			3 - 0"	7 - 0"	1	WD	PTD		A	HM	PTD	HM-1	HM-1							●		●						●	●		●	S1	STORAGE	
AO2 B	AO2				5 - 8	7 - 0"	1	HM	PTD		B	HM	PTD									●		●						●	●	●		S10	SEE A920	3

ABBREVIATIONS

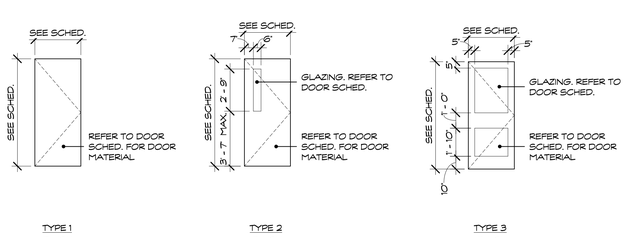
AL/ALUM	-	ALUMINUM
FF	-	FACTORY FINISH
F.R.S.G.	-	FIRE RATED SAFETY GLASS
HM	-	HOLLOW METAL
INSUL	-	INSULATED
IMP	-	INSULATED METAL PANEL
LAM	-	LAMINATED SAFETY GLASS
NF	-	NATURAL FINISH (STAINED)
PTD	-	PAINTED
SS	-	STAINLESS STEEL
STD	-	STAINED
STL	-	STEEL
TEMP	-	TEMPERED
WD	-	WOOD

GENERAL DOOR NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS & DIMENSIONS.
2. ALL NEW KICK PLATES SHALL BE 16" HIGH AND OFFSET 1" FROM EDGES OF DOOR UNLESS OTHERWISE NOTED. SEE SCHEDULE FOR MORE INFO.
3. ALL GLASS IN DOORS, SIDE LITES AND TRANSOMS SHALL BE TEMPERED. SEE SCHEDULE AND WINDOW ELEVATIONS FOR ADDITIONAL GLAZING REQUIREMENTS.
4. ALL EXTERIOR DOORS SHALL RECEIVE FULL WEATHER STRIPPING ON ALL SIDES, TOP AND BOTTOM.
5. ALL HOLLOW METAL FRAMES AND DOORS SHALL BE PAINTED.
6. ALL EXTERIOR DOORS SHALL RECEIVE CONTACTS FOR BURGLAR SYSTEM.
7. SEE SIGNAGE DETAILS AND PLANS - SHEETS A920 FOR ADDITIONAL SIGNAGE INFORMATION.
8. ALL EXTERIOR HM DOORS TO RECEIVE ALUMINUM SADDLES, (DETAIL 3/A551 SIM)

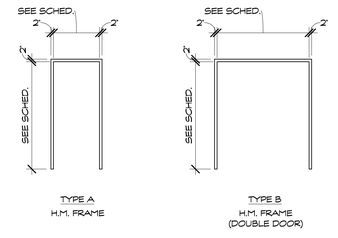
SCHEDULE REMARKS

1. FOR DOORS IN ALUMINUM FRAMES, REFER TO SHEET A600 FOR FRAME ELEVATIONS. ALL EXTERIOR DOORS TO RECEIVE ALUMINUM SADDLE (DETAIL 3/A551)
2. PROVIDE PULL HANDLE AT DOOR EXTERIOR - OMIT PUSH PLATE IN LIEU OF PANIC/EXIT DEVICE
3. PROVIDE CONTINUOUS HINGE AT DOORS INDICATED.
4. NO EXTERIOR HARDWARE, EXIT DOOR ONLY.
5. PROVIDE HOLD OPEN DOOR CLOSER
6. KITCHEN DOUBLE ACTING DOOR. PROVIDE PUSH PLATE BOTH SIDES



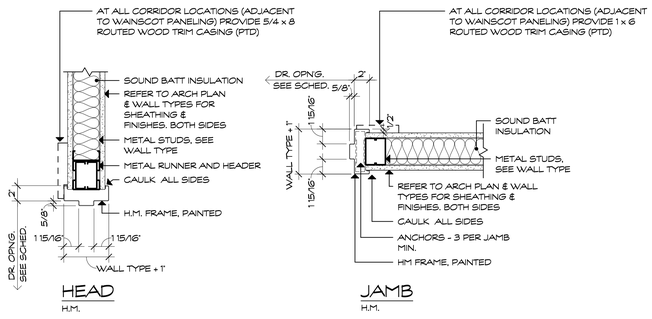
1 DOOR ELEVATIONS

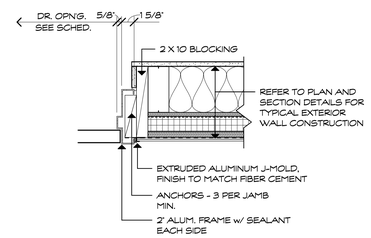
1/4" = 1'-0"



2 H.M. FRAME ELEVATIONS

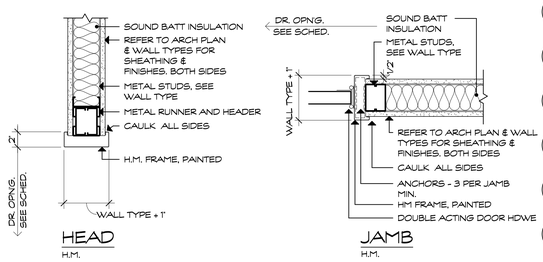
1/4" = 1'-0"





HM - 1

NEW INTERIOR FRAMED WALLS - FOR WALL TYPE AND RATING REQUIREMENTS SEE FLOOR PLANS



HM - 2

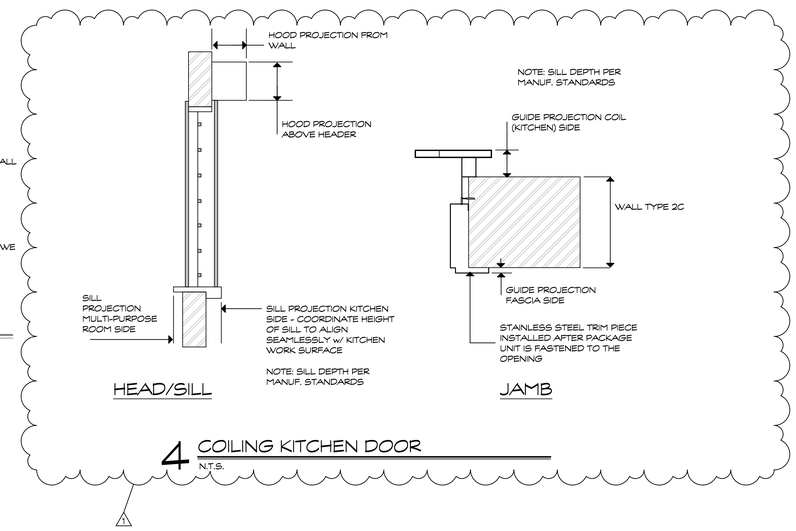
NEW EXTERIOR WALLS - FOR WALL TYPE AND RATING REQUIREMENTS SEE FLOOR PLANS

HM - 3

DOUBLE ACTING FRAME @ NEW INTERIOR FRAMED WALLS - FOR WALL TYPE AND RATING REQUIREMENTS SEE FLOOR PLANS

3 H.M. FRAME DETAILS

1 1/2" = 1'-0"



4 COILING KITCHEN DOOR

N.T.S.

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
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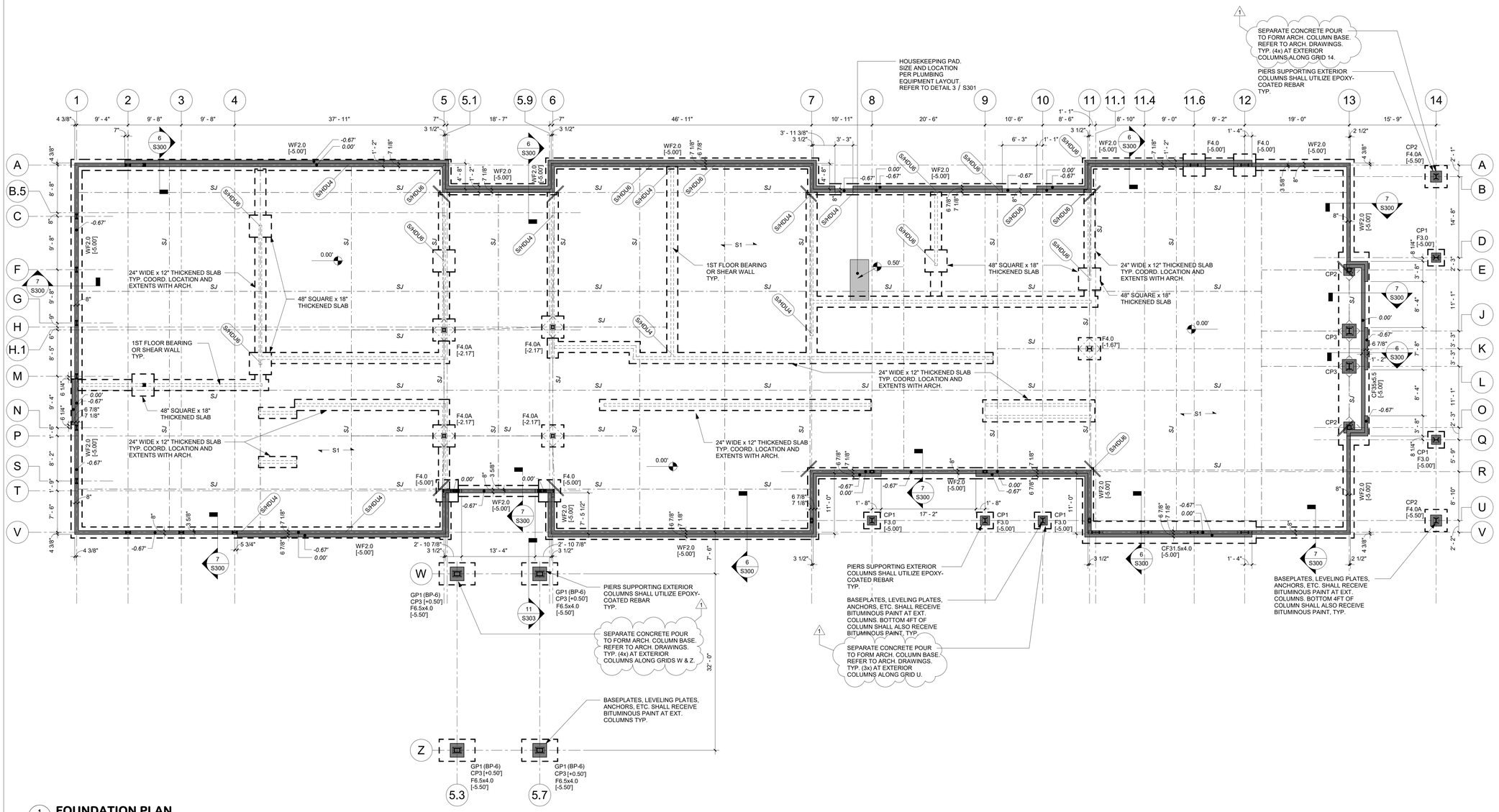
Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title:
DOOR SCHEDULE, ELEVATIONS AND DETAILS

Date: SEPTEMBER 09, 2022
Scale: As Indicated
Drawn By: C. NARDI
Project Number: 20.003
Drawing Number: A910



1 S100 **FOUNDATION PLAN**
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. T/SLAB ELEVATION = 0'-0" U.N.O. COORD. T/SLAB ELEVATIONS W/ ARCH. PRIOR TO CONSTRUCTION.
2. TOP OF PIER ELEVATIONS SHALL BE [-0'-8"] U.N.O. ON PLAN OR S002 NOTES.
3. TOP OF FOUNDATION WALL STEM AND SHELF SHALL BE AS NOTED ON PLANS.
4. COORDINATE ALL DIMENSIONS, ELEVATIONS, DOOR & WINDOW LOCATIONS W/ ARCH. DRAWINGS AND/OR EXISTING CONDITIONS
5. COORDINATE ALL WALL PENETRATIONS, UNDERSLAB UTILITIES AND MECHANICAL CHASES W/ APPLICABLE TRADES.
6. SLAB-ON-GRADE DENOTED 'S1' SHALL BE 5" NORMAL-WEIGHT CONCRETE REINFORCED WITH 6x6X-W1.4xW1.4 WWF U.N.O. SEE DETAILS AND SPECIFICATIONS FOR SLAB CONSTRUCTION, INCLUDING VAPOR RETARDER AND COMPACTED BASE MATERIAL.
7. COORDINATE ALL SLAB DEPRESSIONS (WALK-IN COOLERS AND FREEZERS, RECESSED FLOOR MATS, ETC.) WITH ARCHITECTURAL DETAILS, FINISH MATERIAL THICKNESSES, AND ANY OTHER REQUIREMENTS.
8. BOTTOM OF FOOTING SHALL BE 3'-6" MINIMUM BELOW FINISHED GRADE.
9. COORDINATE SIZE AND LOCATION OF WALL SLEEVES AND FOOTING BREAKS FOR ALL UTILITIES WITH SITE/CIVIL DRAWINGS.
10. COORDINATE WITH ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION, AND TELECOM DRAWINGS FOR ALL SLAB PENETRATION SIZES AND LOCATIONS, HOUSEKEEPING PAD SIZES AND LOCATIONS, AND LOCATIONS OF UNDERSLAB RADON PITS.
11. G.C. TO PERFORM MOISTURE TESTING ON ALL INTERIOR SLAB ON GRADE PRIOR TO FLOORING PLACEMENT. COORDINATE MOISTURE LEVEL WITH FLOORING REQUIREMENTS.
12. ALL ANCHOR BOLTS AND DOWELS FOR COLUMN BASES TO BE CAST-IN-PLACE. **NO POST-INSTALLED ANCHORS ALLOWED IN FOUNDATION UNLESS NOTED ON PLANS.**
13. BOTTOM WALL PLATE SHALL BE ANCHORED TO CONCRETE WITH 5/8" Ø F1554 ANCHOR BOLTS @ 32" oc, 9" MIN. EMBEDMENT.
14. REFER TO SHEET S400 FOR BASE PLATES, ANCHOR RODS, AND COLUMN SCHEDULE.
15. SEE GENERAL NOTES ON SHEET S001 AND S002 FOR ADDITIONAL INFORMATION.
16. S/HDUs ARE LOCATED AT SHEARWALL ENDS PER LOCATIONS INDICATED ON S101

FOUNDATION & SLAB SUBGRADE NOTES

1. SOIL FOOTING SUBGRADES SHALL BE EXCAVATED LEVEL. ALL SOIL SUBGRADES FOR FOOTINGS SHOULD BE COMPACTED TO 95% OF THE MATERIALS MAXIMUM DRY DENSITY WITHIN PLUS OR MINUS 2% OF THE MATERIAL'S OPTIMUM MOISTURE CONTENT.
2. EXISTING FILL MUST BE IMPROVED PRIOR TO FOUNDATION CONSTRUCTION USING A MINIMUM OF SIX OVERLAPPING PASSES OF A 10-TON VIBRATORY ROLLER. FOUNDATION SUBGRADES IN SAND AND UTILITY TRENCH SUBGRADES SHALL BE PROOFROLLED WITH SIX OVERLAPPING COVERAGES OF A DOUBLE-DRUM ONE TON WALK BEHIND VIBRATORY ROLLER. HAVING A MINIMUM STATIC DRUM WEIGHT OF 10 TONS.
3. ALL SLAB SUBGRADE AREAS SHALL BE PROOFROLLED WITH SIX OVERLAPPING COVERAGES OF A VIBRATORY DRUM ROLLER HAVING A MINIMUM STATIC DRUM WEIGHT OF 10 TONS.
4. A MINIMUM 6 INCH THICK LAYER OF 3/4 INCH CLEAN CRUSHED STONE SHALL BE PLACED BENEATH SLABS.
5. STEPS SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL SURFACE-WATER RUNOFF AND TO REMOVE WATER AND PRECIPITATION FROM PREPARED SUBGRADES.

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

SILVER / PETRUCELLI + ASSOCIATES
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Tel. 203 230 9007 Fax. 203 230 8247
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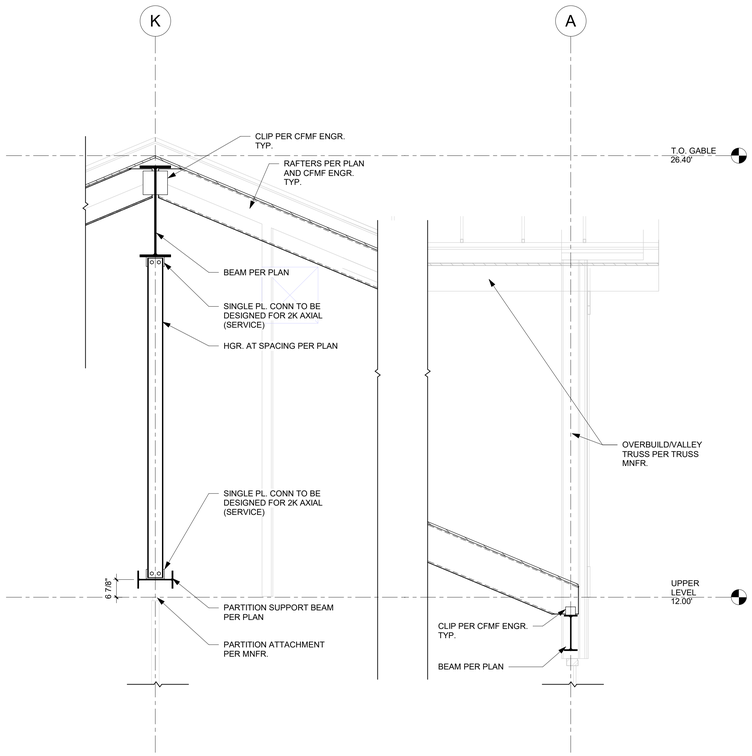
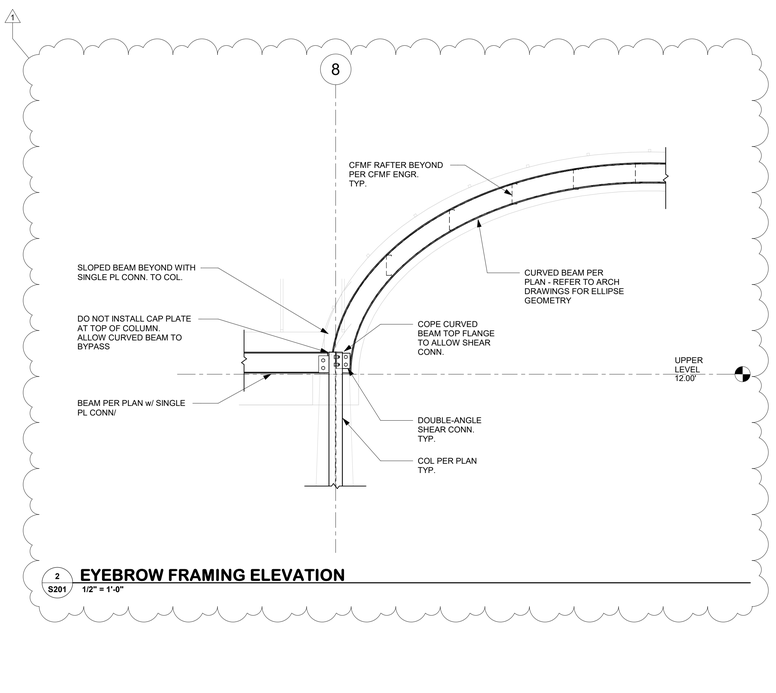
Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title: FOUNDATION PLAN

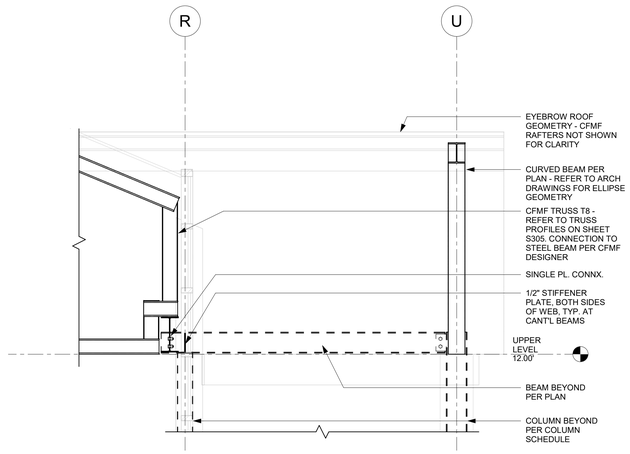
Date: SEPTEMBER 09, 2022
Scale: As indicated
Drawn By: MRC
Project Number: 20.003
Drawing Number: S100



1 MULTI-PURPOSE ROOM BUILDING SECTION
S201 1/2" = 1'-0"



2 EYEBROW FRAMING ELEVATION
S201 1/2" = 1'-0"



3 EYEBROW FRAMING SECTION
S201 1/2" = 1'-0"

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

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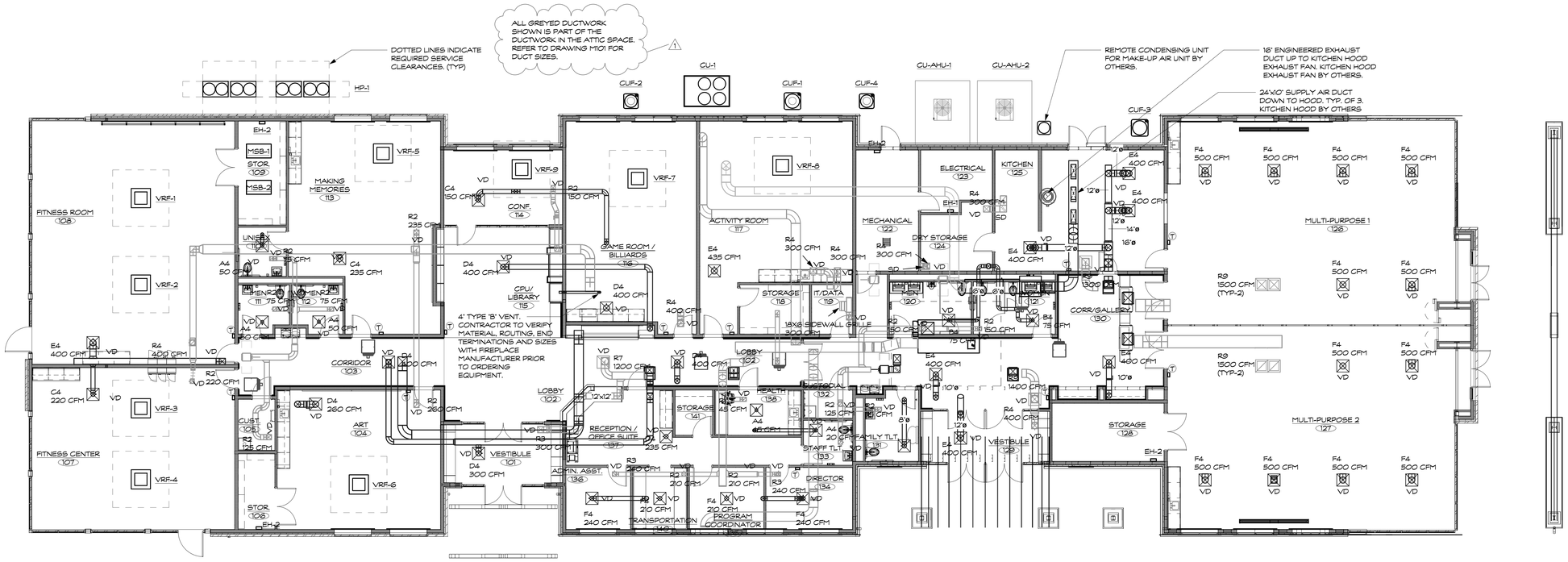
Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title:
STRUCTURAL SECTIONS

Date: SEPTEMBER 09, 2022
Scale: 1/2" = 1'-0"
Drawn By: MRC
Project Number: 20.003

Drawing Number:
S201



1 MAIN LEVEL DUCT PLAN
1/8" = 1'-0"

Project Title:			
Colchester Senior Center Town of Colchester 15 Louis Lane Colchester, CT 06415	SILVER / PETRUCELLI + ASSOCIATES Architects / Engineers / Interior Designers 3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com	Revision: / Description: / Date: / Revised By: ISSUED FOR BID 09/09/2022 1 ADDENDUM 1 09/22/2022	Drawing Title: MAIN LEVEL MECHANICAL PLAN Date: SEPTEMBER 09, 2022 Scale: 1/8" = 1'-0" Drawn By: Author Project Number: 20.003 Drawing Number: M100

HOOD INFORMATION – JOB#5401627

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		6024 ND-2-PSP-F	CAPTIVEAIRE	10' 0"	600 DEG	I	HEAVY	225	2250			4"	16"	2250	1611	-0.737"	1800	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

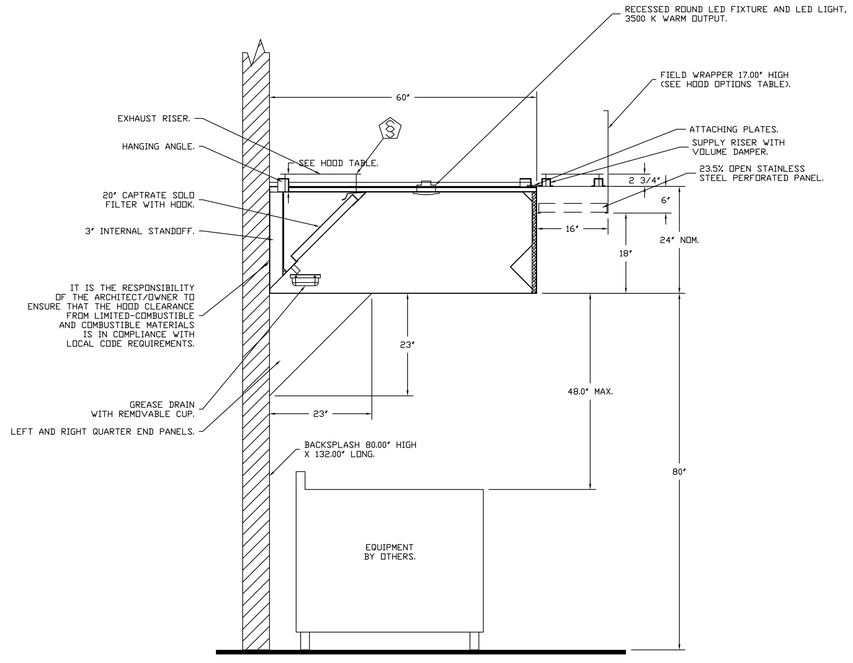
HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	LEFT	12"x60"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	914 LBS

HOOD OPTIONS

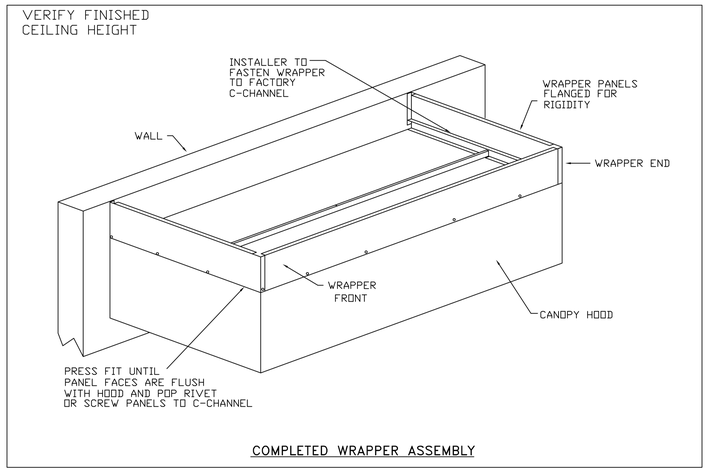
HOOD NO	TAG	OPTION
1		FIELD WRAPPER 17.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 132.00" LONG 430 SS VERTICAL.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.

PERFORATED SUPPLY PLENUM(S)

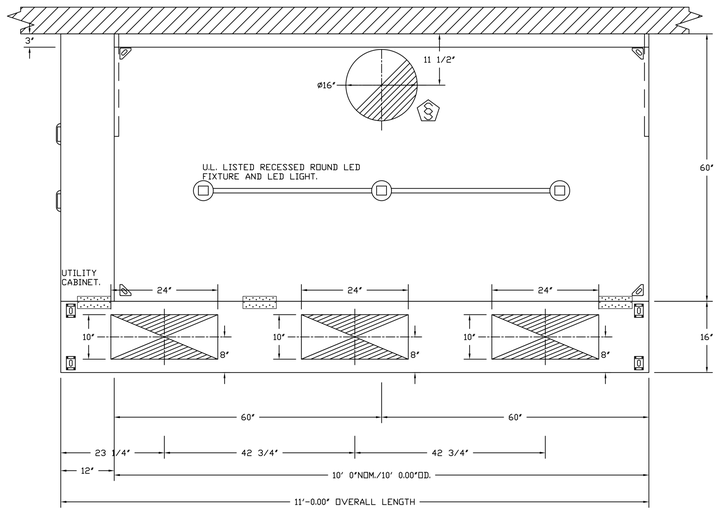
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	132"	16"	6"	MUA	10"	24"		600	0.194"
						MUA	10"	24"		600	0.194"
						MUA	10"	24"		600	0.194"



SECTION VIEW – MODEL 6024ND-2-PSP-F
HOOD – #1



COMPLETED WRAPPER ASSEMBLY



PLAN VIEW – HOOD #1
10' 0.00" LONG 6024ND-2-PSP-F

CUSTOMER APPROVAL TO MANUFACTURE:	
Approved as Noted	☐
Approved with NO Exception Taken	☐
Revise and Resubmit	☐
SIGNATURE	
Your Title	Date

FOR QUESTIONS, CALL THE
New England Office
REGION 37
PHONE: (413) 594-8390
EMAIL: reg37@captiveaire.com

REVISIONS

	DESCRIPTION	DATE:
△		
△		
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CAPTIVE-AIRE
New England Office
450 Cottage Street, Suite 4, Springfield, MA. 01104 PHONE: (413) 594-8390 FAX: (919) 227-5956 EMAIL: reg37@captiveaire.com
www.captiveaire.com

Colchester Senior Center
COLCHESTER, CT, 06415

DATE: 7/13/2022

DWG.#: 5401627

DRAWN BY: TSH-37

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 1

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
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Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
△	ADDENDUM 1	09/22/2022	

Drawing Title:
FOODSERVICE EQUIPMENT
HOOD DETAILS

Date: SEPTEMBER 09, 2022
Drawing Number: FS800
Scale:
Drawn By: Author
Project Number: 20.003

SECTION 23 38 13 13

SPECIFICATIONS
TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods

PART 1 - GENERAL

1.1 SUMMARY

A. The ND2 series is a Type I, wall canopy hood for use over 600°F cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.

B. The hood shall have the size, shape, and performance specified on drawings.

1.2 SUBMITTALS

A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.

B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.3 QUALITY ASSURANCE

A. This hood is ETL-listed to standard UL710, ULC710, and ULC-S646 when installed in accordance with these installation instructions and National Fire Protection Association Standard "NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations."

B. Built-in compliance with NSF/ANSI Standard 2.

C. The hood shall be ETL Listed as:

1. "Exhaust Hood Without Exhaust Damper."
2. ETL Sanitation Listed and built in accordance with NFPA 96.
3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

1.4 WARRANTY

A. All units shall be provided with the following standard warranty:

1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.

B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

2.2 CONSTRUCTION

A. Construction shall be type 430 stainless steel.

B. Double wall insulated front to eliminate condensation and increase rigidity on wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.

C. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12'will have added hangers.

D. Exhaust duct collar to be 4"high with flange.

E. The grease drain system shall be an enclosed integral part of the hood back and have slopes with an exposed, removable 1/2 grease cup to facilitate cleaning.

F. An integral baffle to direct grease laden vapors toward the exhaust filter bank.

G. Hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator.

H. All seams shall be welded and have stainless steel on exposed surfaces.

2.3 LIGHTING

A. Recessed round LED fixture and LED light, 3500K Warm output.

2.4 FILTERS

A. Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns.

2.5 OPTIONS

A. Fire Suppression System: UL 300 fire suppression system.

B. Optional perforated supply plenum shall provide make-up air discharged below the cooking equipment.

1. Perforated diffuser plates shall be included in the design to provide even air distribution.
2. Unexposed surfaces shall be constructed of aluminized steel. Plenum shall be insulated to prevent condensation.
3. Perforated Supply Plenum (PSP)

C. Hood Mounted Utility Cabinet - Cabinet can store listed fire suppression system, listed components, pre-wired electrical controls.

2.6 ACCESSORIES

A. End Panel(s) maximize hood performance and eliminate the effects of cross drafts in the kitchen. Units constructed of stainless steel and sized according to hood width and cooking equipment. Exposed edges hemmed for safety and rigidity. Selected panels:

1. Quarter End Panel

B. Splash panel(s) selected:

1. Backsplash

C. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:

1. Wrapper

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Installer.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted	☐
Approved with NO Exception Taken	☐
Revise and Resubmit	☐

SIGNATURE _____

Your Title _____ Date _____

FOR QUESTIONS, CALL THE:
NORTHEAST SALES DIVISION
450 COTTAGE STREET SPRINGFIELD, MA 01104
PHONE: (888) 594-8390
FAX: (919) 227-5956

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96 - 2014 EDITION
ETL LISTED TO UL-710 REQUIREMENTS
IMC 2015

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

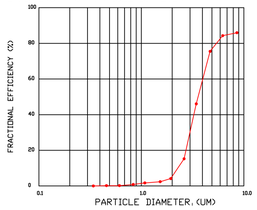
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

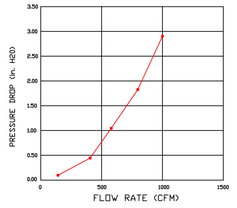
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

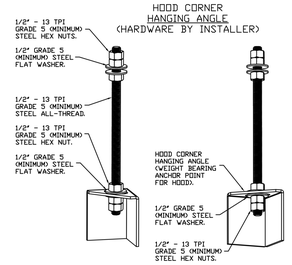
SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

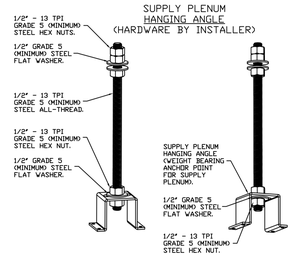
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SUPPLY PLENUM HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

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REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

CAPTIVE-AIRE
New England Office
450 Cottage Street, Suite 4, Springfield, MA, 01104 PHONE: (413) 594-8390 FAX: (919) 227-5956 EMAIL: reg37@captiveaire.com
www.captiveaire.com

Colchester Senior Center
COLCHESTER, CT, 06415

DATE: 7/13/2022

DWG.#: 5401627

DRAWN BY: TSH-37

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 2

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
△	ADDENDUM 1	09/22/2022	

Drawing Title:
FOODSERVICE EQUIPMENT
HOOD DETAILS

Date: SEPTEMBER 09, 2022
Scale:
Drawn By: Author
Project Number: 20.003
Drawing Number: FS801

EXHAUST FAN INFORMATION – JOB#5555427

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	21B	1	DU180HFA	CAPTIVEAIRE	2250	1.250	1121	TEFC,PREMIUM	1.500	0.9720	3	208	6.5	520 FPM	184	12.7

CONDENSER DETAILS

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
2	21C	A1-D.500-15D-MPU	1	3	208-230	3 PHASE	60 HZ	14.5 AMPS	11.9 AMPS	20 AMPS	14 AWG	14

MUA FAN INFORMATION – JOB#5555427

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	21C	1	A1-D.500-15D-MPU	15MF-1-MOD	A1-D.500	1100	1800	0.500	2004	ODP,PREMIUM	1.500	1.2500	3	208	4.4	5.5A	15A	1058	19.5

COILS – JOB#5555427

FAN UNIT NO	TAG	COIL TYPE	DESIGN CFM	COOLING										
				ENTERING DB TEMP	ENTERING WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY
2	21C	DX	1800	86.0°F	72.0°F	75.2°F	67.2°F	---	---	---	---	30.9 MBH	20.4 MBH	10.5 MBH

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	21C	136239	125340	66°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

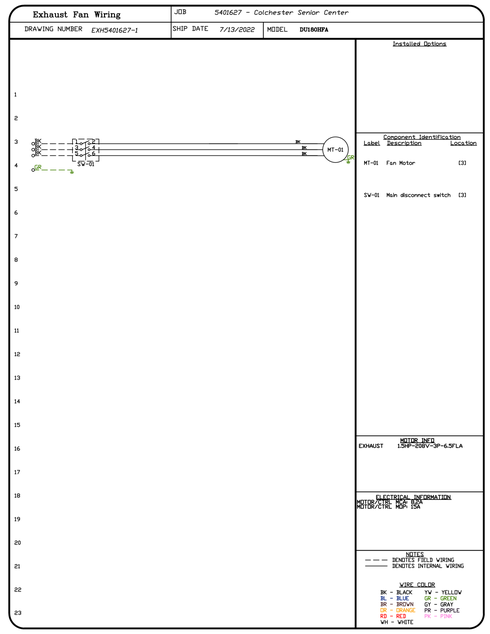
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	21B	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2	21C	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	LOW FIRE START
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	3 TON SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 1 DF/EH MUA (1,100 TO 1,800 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION
		1	COOLING THERMOSTAT AND RELAY (NOT REQUIRED FOR EVAP)
		1	INSULATION OPTION FOR VBANK FILTER SECTION
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	DF1 INDOOR HANGING OPTION - INCLUDES 2 HSA125 HANGING SPRING ISOLATORS PER UNI-STRUT
		1	SHIP CONDENSER LOOSE - SINGLE CONDENSER, THREE PHASE - CONDENSER DISCONNECT SHIPPED LOOSE
		1	2 YEAR PARTS WARRANTY

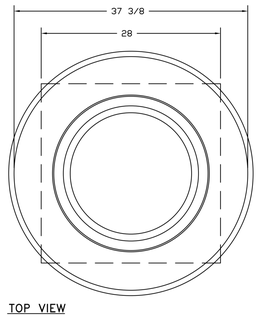
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	21B	YES						
2	21C				YES		YES	

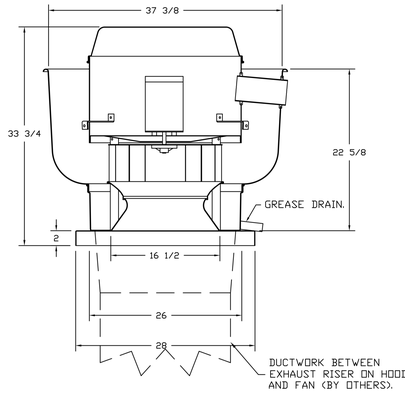
CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	21B	37 LBS	CURB	26.500"W X 26.500"L X 20.000"H 6.000:12.000 PITCH ALONG LENGTH, RIGHT VENTED.





FAN #1 DU180HFA - EXHAUST FAN (KEF)



FEATURES:

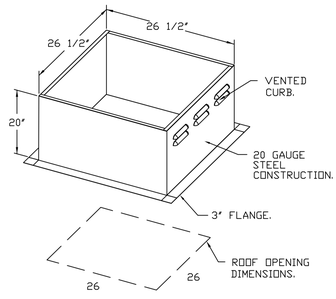
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

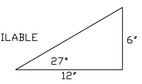
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.
FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted ☐
Approved with NO Exception Taken ☐
Revise and Resubmit ☐
SIGNATURE _____
Your Title _____ Date _____

REVISIONS

DESCRIPTION	DATE:

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Colchester Senior Center
COLCHESTER, CT, 06415

DATE: 7/13/2022
DWG.#: 5401627
DRAWN BY: TSH-37
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 3

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
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Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title:
FOODSERVICE EQUIPMENT
HOOD DETAILS

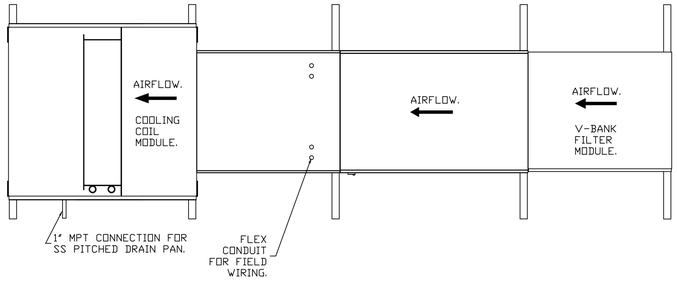
Date: SEPTEMBER 09, 2022
Drawing Number: FS802
Scale:
Drawn By: Author
Project Number: 20.003

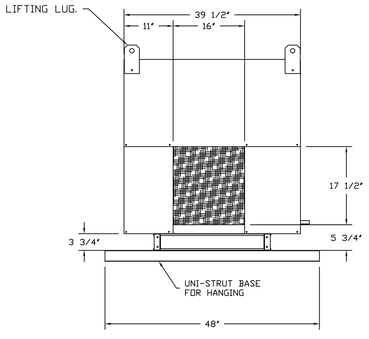
FAN #2 A1-D.500-15D-MPU - HEATER (21C)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
2. V-BANK EZ FILTERS - INDOOR.
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
6. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
7. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TF1820S ACTUATOR INCLUDED.
8. 3 TON, SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 1 DF/EH MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (1,100 TO 1,800 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 2EZ100IN.
9. DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT - SET POINT FOR THERMOSTAT SHOULD BE 85°F.
10. "INSULATION" FOR V-BANK INTAKE OPTION.
11. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
12. INDOOR HANGING CRADLE FOR THE SIZE 1 DIRECT FIRED UNIT. 2 HSA125 HANGING ISOLATORS PER UNI-STRUT INCLUDED.
13. SHIP CONDENSER LOOSE. THE REFRIGERATION LINES WILL NEED TO BE STUBBED OUT 12 INCHES. THE SUCTION LINE NEEDS TO BE INSULATED INSIDE THE COIL MODULE. ROTARY DISCONNECT SHOULD NOT BE INSTALLED ON THE POST, BLANK POST SHOULD BE USED IN PLACE.
14. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).
15. 2 YEAR PARTS WARRANTY

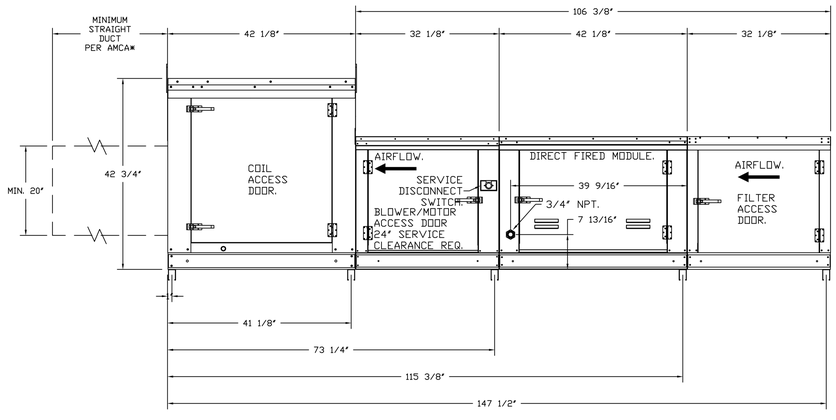
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".

SUPPLY SIDE HEATER INFORMATION:

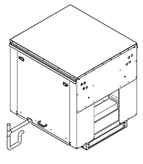
WINTER TEMPERATURE = 9°F. TEMP. RISE = 66°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 126919.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 137955.
OUTPUT BTUs AT ALTITUDE OF 346 FT. = 125340.
INPUT BTUs AT ALTITUDE OF 346 FT. = 136239.



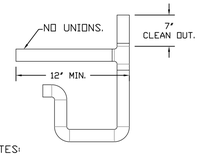




TYPICAL DRAIN TRAP INSTALL



RECOMMENDED COOLING COIL DRAIN TRAP CONFIGURATION.



NOTES:
1) 1" DIAMETER PVC PIPE ONLY.
2) USE ONLY LOW PROFILE COUPLINGS.
3) ADD CLEAN OUT AS SHOWN.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted	☐
Approved with NO Exception Taken	☐
Revise and Resubmit	☐

SIGNATURE _____
Your Title _____ Date _____

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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COLCHESTER, CT, 06415

DATE: 7/13/2022
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DRAWN BY: TSH-37
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 4

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

SILVER / PETRUCELLI + ASSOCIATES
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Revision:	Description:	Date:	Revised By:
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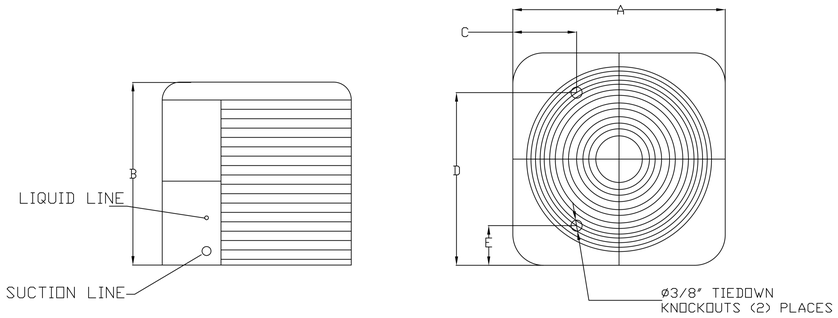
1	ADDENDUM 1	09/22/2022	

Drawing Title:
FOODSERVICE EQUIPMENT
HOOD DETAILS

Date: SEPTEMBER 09, 2022
Drawing Number: FS803
Scale:
Drawn By: Author
Project Number: 20.003

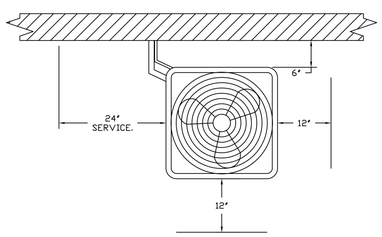


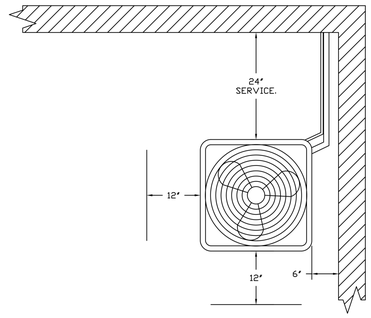
ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

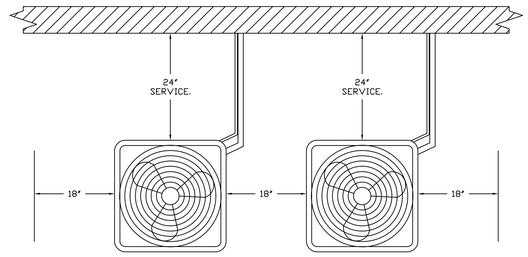
		UNIT DIMENSIONS					CONNECTION SIZES		NOMINAL
MODEL	WEIGHT	A	B	C	D	E	SUCTION	LIQUID	TONNAGE
24ABB324	110 LBS	23-1/8	25-5/16	7-13/16	18-1/16	4-7/16	3/4	3/8	2
24ABB330	111 LBS	23-1/8	28-11/16	7-13/16	18-1/16	4-7/16	3/4	3/8	2.5
24ABB336	141 LBS	25-3/4	32-5/16	9-1/8	21-1/4	4-7/16	7/8	3/8	3
24ABB360	190 LBS	31-3/16	25-1/2	9-1/8	24-11/16	6-9/16	7/8	3/8	5

ELECTICAL INFORMATION

	V-PH	RLA	MCA	FUSE SIZE
24ABB324	208/230-1	13.5	17.6	25
24ABB330	208/230-1	12.8	16.8	25
	208/230-3	8.3	11.2	20
24ABB336	208/230-1	15.3	21.5	30
	208/230-3	10.5	14.5	20
	460-3	5.6	7.7	15
	575-3	3.8	5.3	15
24ABB360	208/230-1	26.4	34.2	50
	208/230-3	16.0	21.4	30
	460-3	7.8	10.5	15
	575-3	5.7	7.6	15

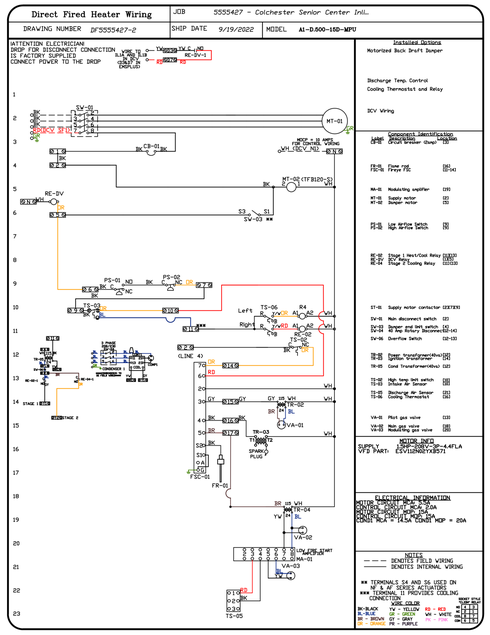


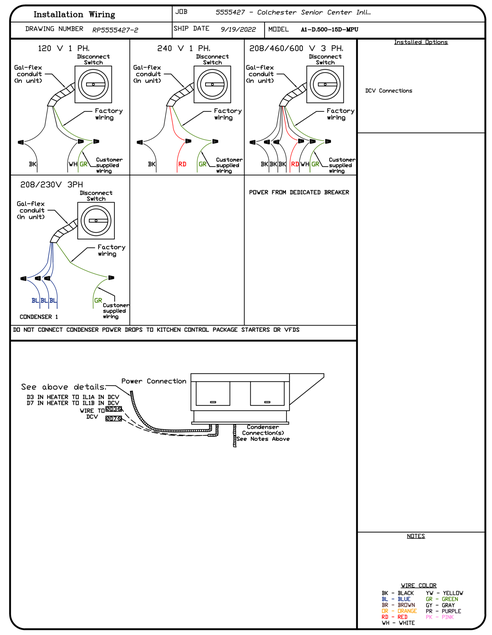




CONDENSER CLEARANCES

48" CLEARANCE REQUIRED ABOVE CONDENSERS.
(NOTE: **CONDENSERS SHOWN HERE ARE NOT DRAWN AT SCALE).





CUSTOMER APPROVAL TO MANUFACTURE:

- Approved as Noted ☐
- Approved with NO Exception Taken ☐
- Revise and Resubmit ☐

SIGNATURE _____

Your Title _____ Date _____

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
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www.captiveaire.com

Colchester Senior Center
COLCHESTER, CT, 06415

DATE: 7/13/2022

DWG.#: 5401627

DRAWN BY: TSH-37

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 5

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
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Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title:
FOODSERVICE EQUIPMENT
HOOD DETAILS

Date: SEPTEMBER 09, 2022
Scale:
Drawn By: Author
Project Number: 20.003
Drawing Number: FS804

JOB NO 5401627 | MODEL NUMBER DCV-1111 | JOB NAME Colchester Senior Center | SCHEMATIC TYPE INSTALL | DATE 7/13/2022 | DWG NO ECP #1-3

DESCRIPTION OF OPERATION: Fire System #1 TANK FS - 4.0/4.0. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.

TANK PROTECTION ELECTRICAL DETAIL

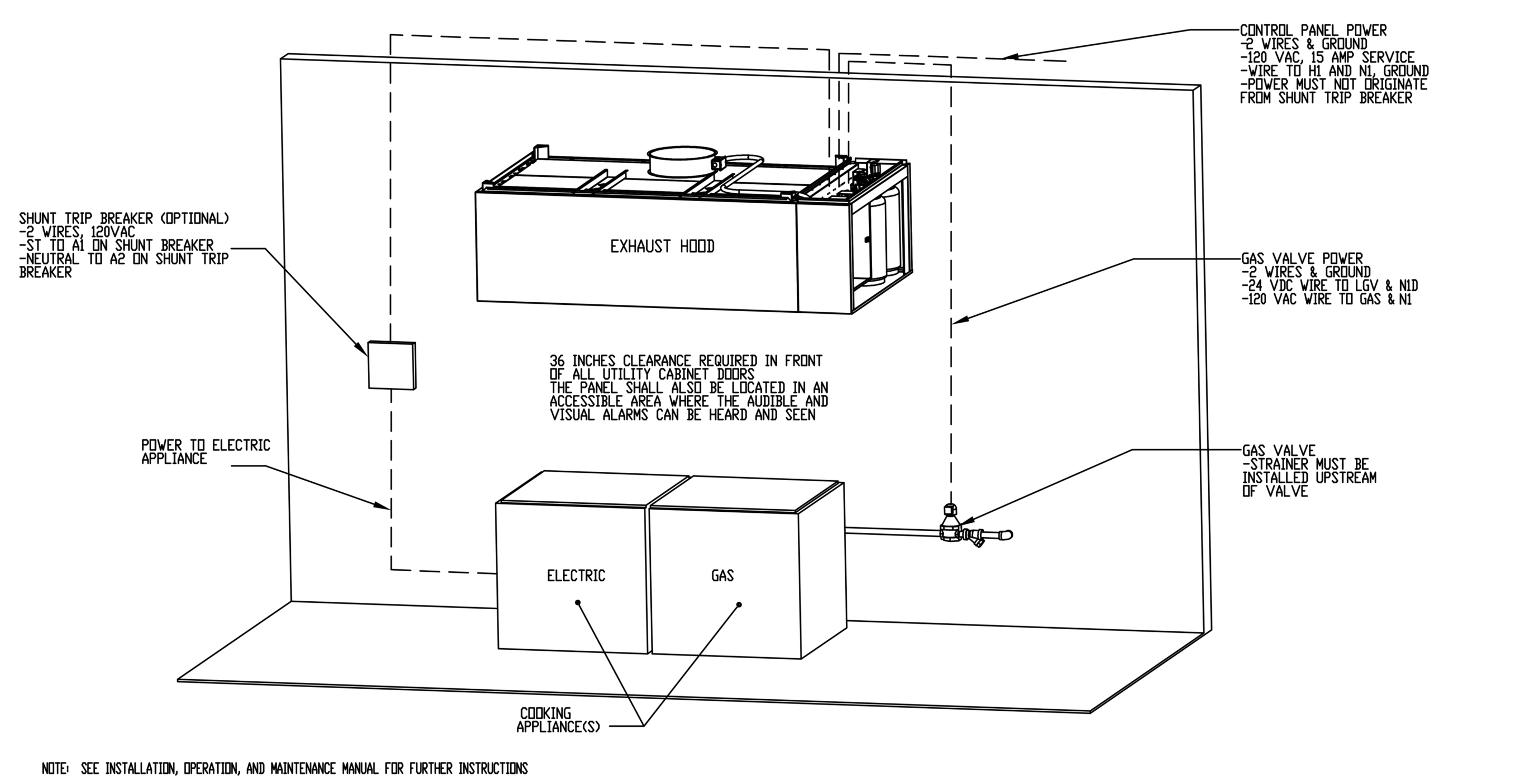
02/10/2021 Rev. 2

FS-1: MASTER

ELECTRICIAN:
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N1D (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, N1D TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 5401627 | MODEL NUMBER DCV-1111 | JOB NAME Colchester Senior Center | SCHEMATIC TYPE INSTALL | DATE 7/13/2022 | DWG NO ECP #1-4

TANK PROTECTION LOW-VOLTAGE DETAIL

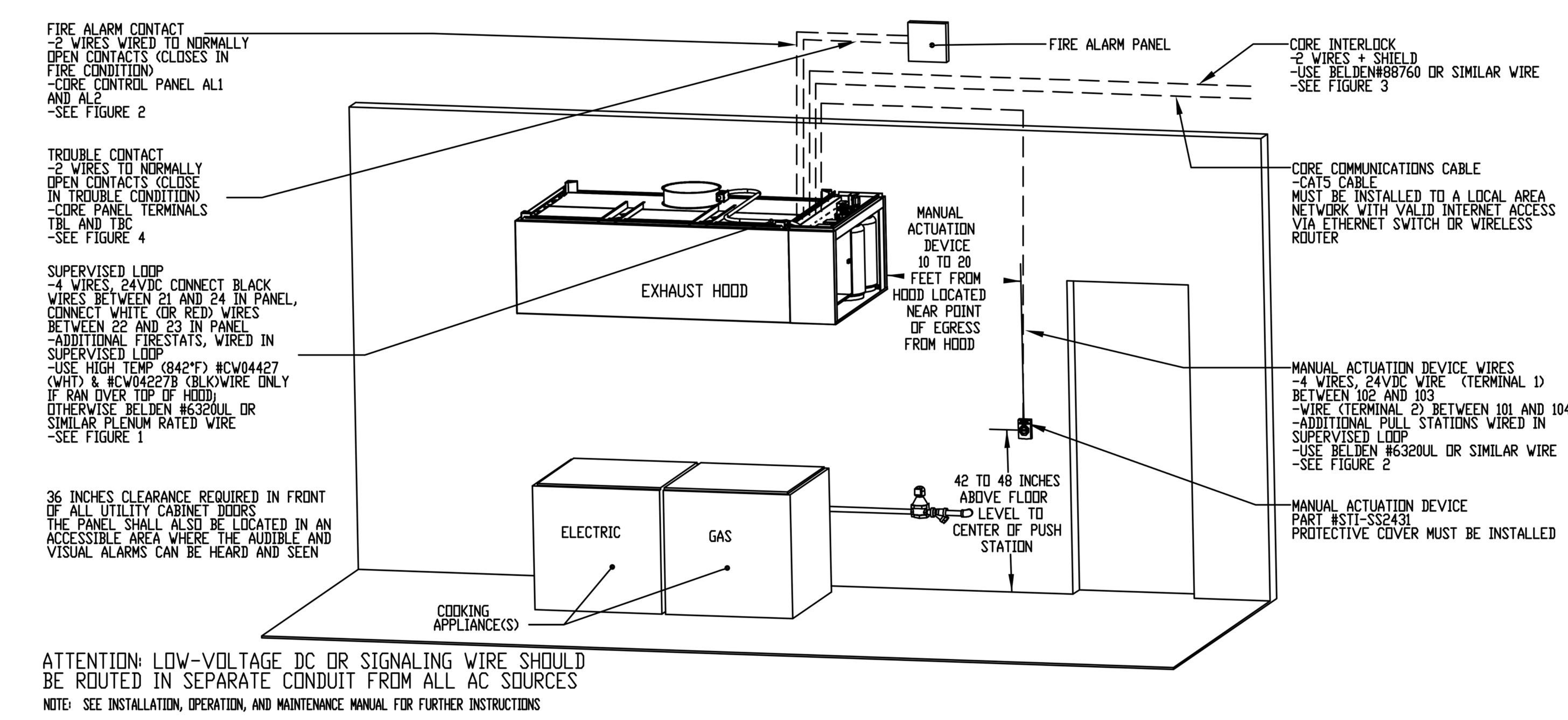
02/10/2021 Rev. 2

FS-1: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SURFACE MOUNTED, USE COVER EXTENSION STI-6531B
REMOTE FIRESTAT SENSOR(S)	21 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP (842°F) #CW04427 (WHT) & #CW04427B (BLK)WIRE OR SIMILAR ONLY IF RAN OVER TOP OF HOOD; OTHERWISE BELDEN #6320UL OR SIMILAR PLENUM RATED WIRE; SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	ILA, ILB, ILC	ILA, ILB, ILC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) ILA, TO CORE SYSTEM (2) ILA. CORE SYSTEM (1) ILB, TO CORE SYSTEM (2) ILB. CORE SYSTEM (1) ILC, TO CORE SYSTEM (2) ILC. USE BELDEN# 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TOK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

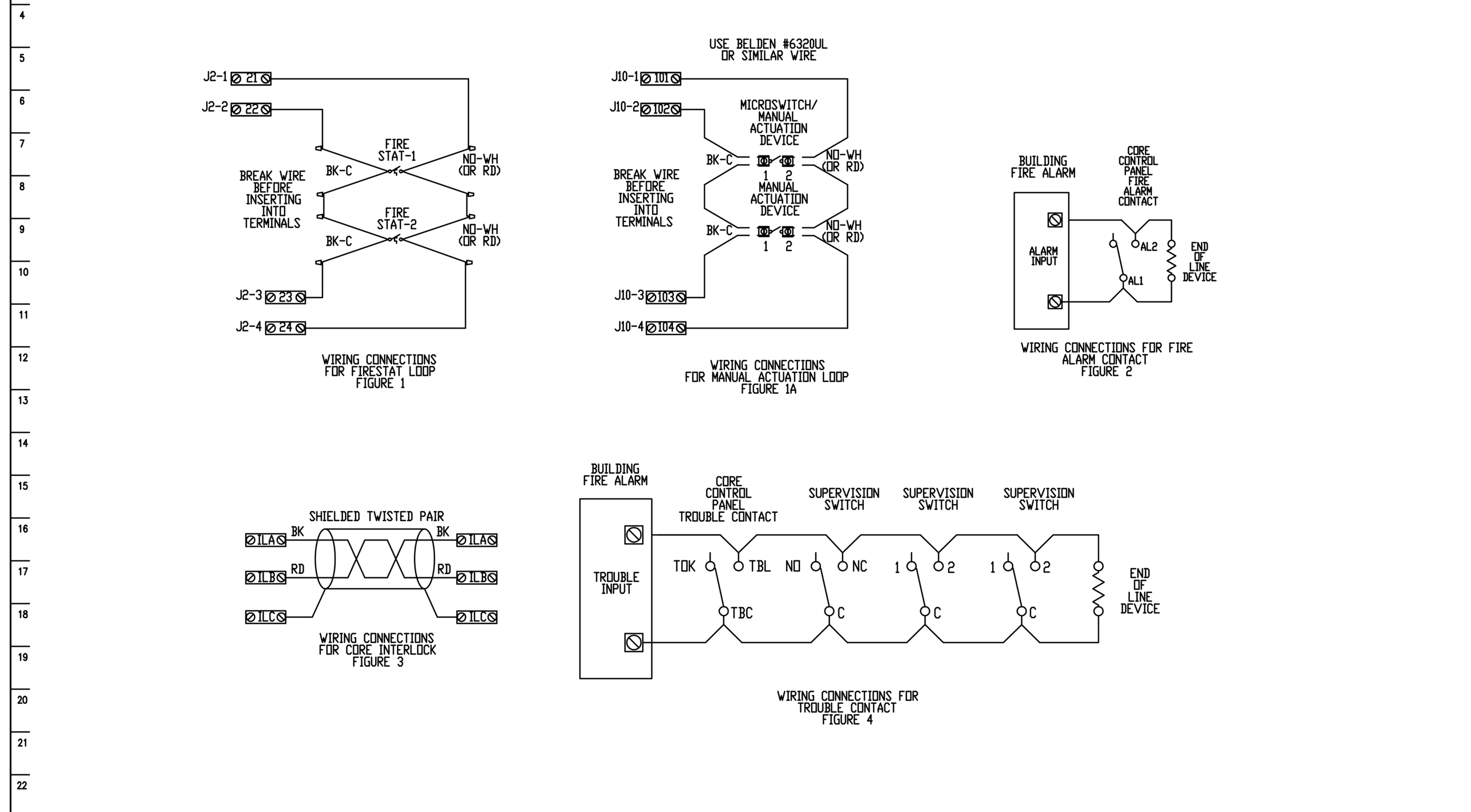
NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 5401627 | MODEL NUMBER DCV-1111 | JOB NAME Colchester Senior Center | SCHEMATIC TYPE INSTALL | DATE 7/13/2022 | DWG NO ECP #1-5

TANK PROTECTION LOW-VOLTAGE FIGURES

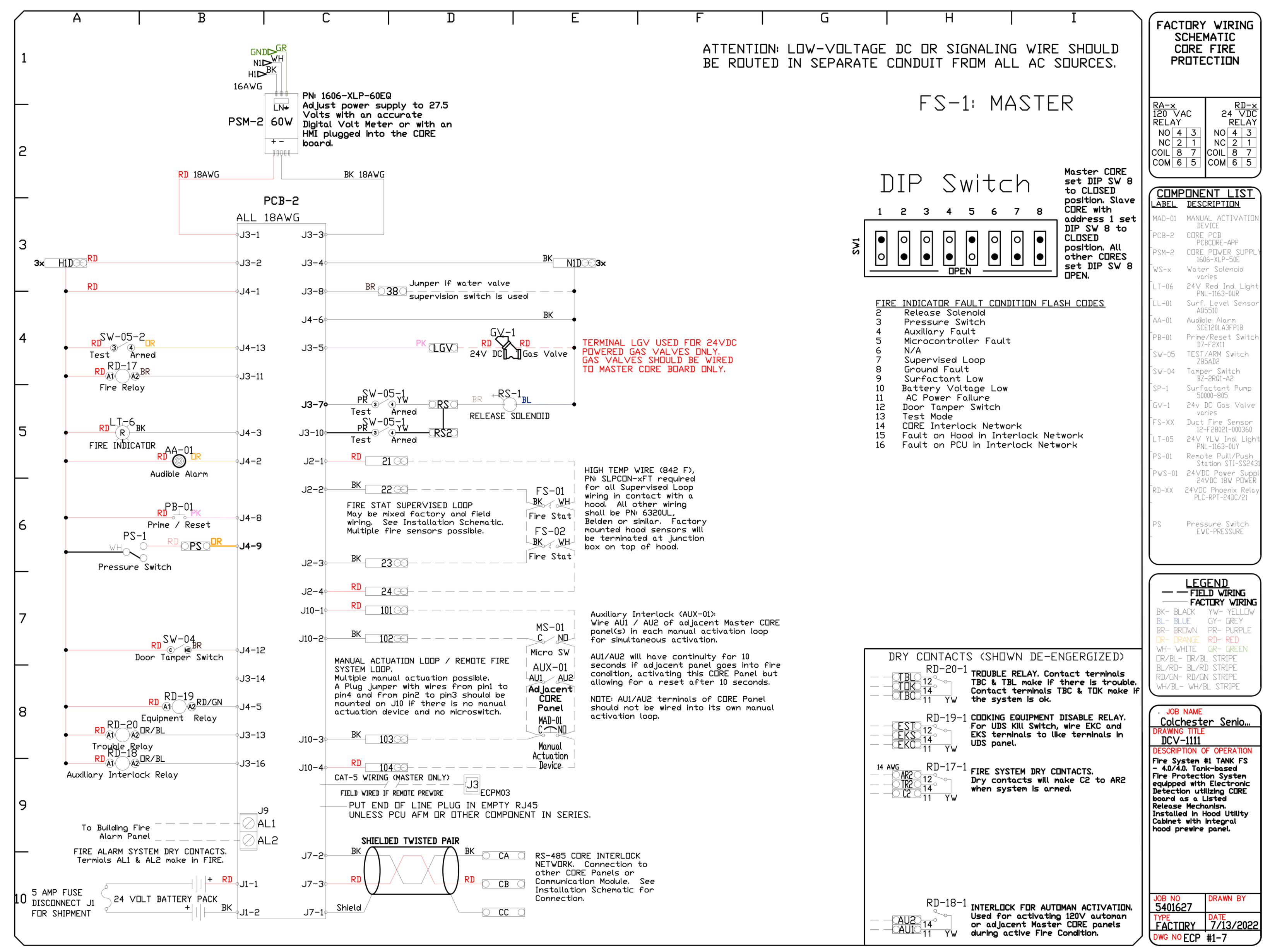
02/10/2021 Rev. 17

FS-1: MASTER



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES



REVISIONS

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Colchester Senior Center
COLCHESTER, CT, 06415

DATE: 7/13/2022

DWG.#: 5401627

DRAWN BY: TSH-37

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 6

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted ☐
Approved with NO Exception Taken ☐
Revise and Resubmit ☐
SIGNATURE ______
Your Title ______ Date ______

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	ISSUED FOR BID	09/09/2022	
1	ADDENDUM 1	09/22/2022	

Drawing Title:
FOODSERVICE EQUIPMENT
HOOD DETAILS

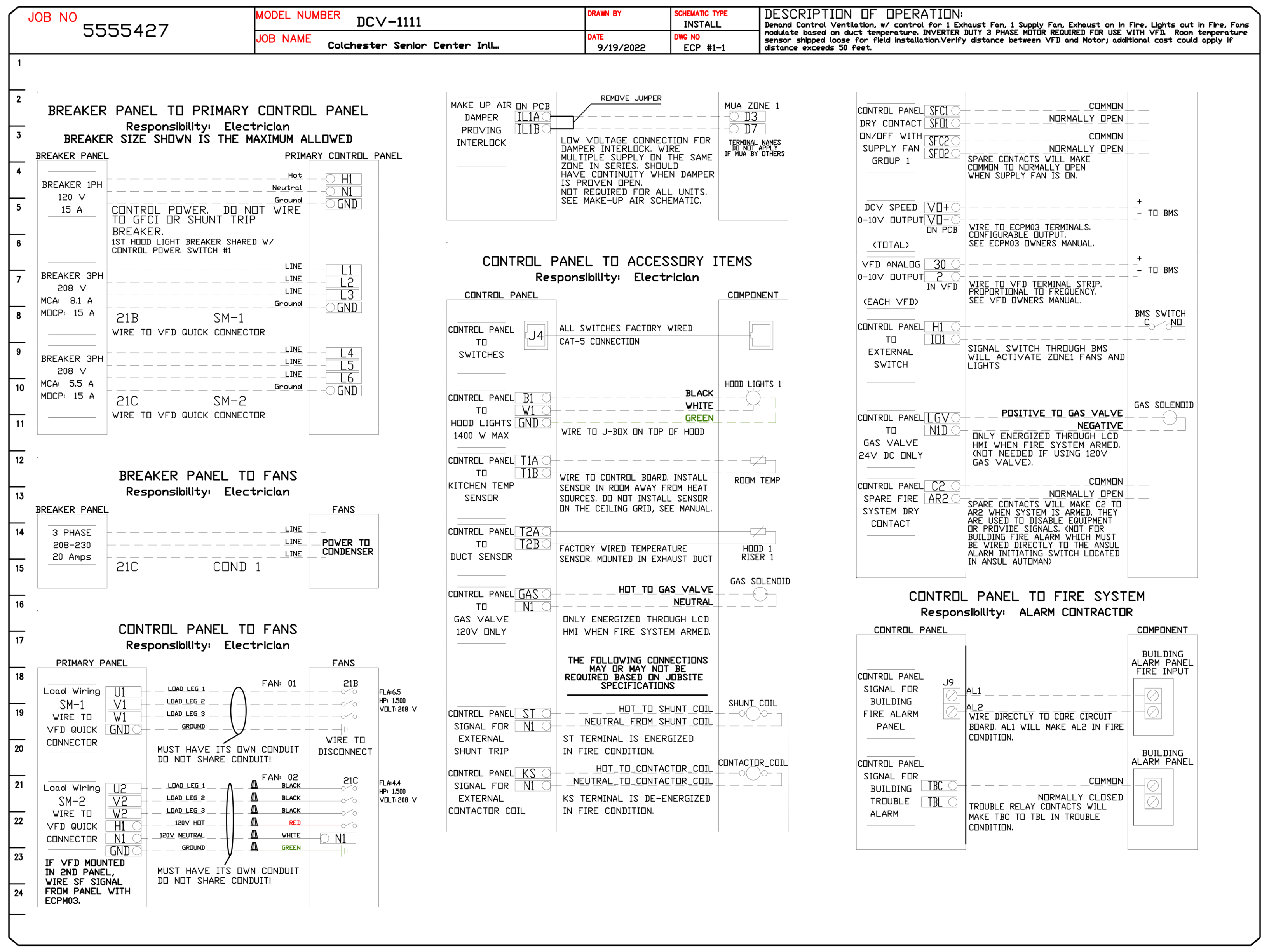
Date: SEPTEMBER 09, 2022
Scale:
Drawn By: Author
Project Number: 20.003

Drawing Number: FS805

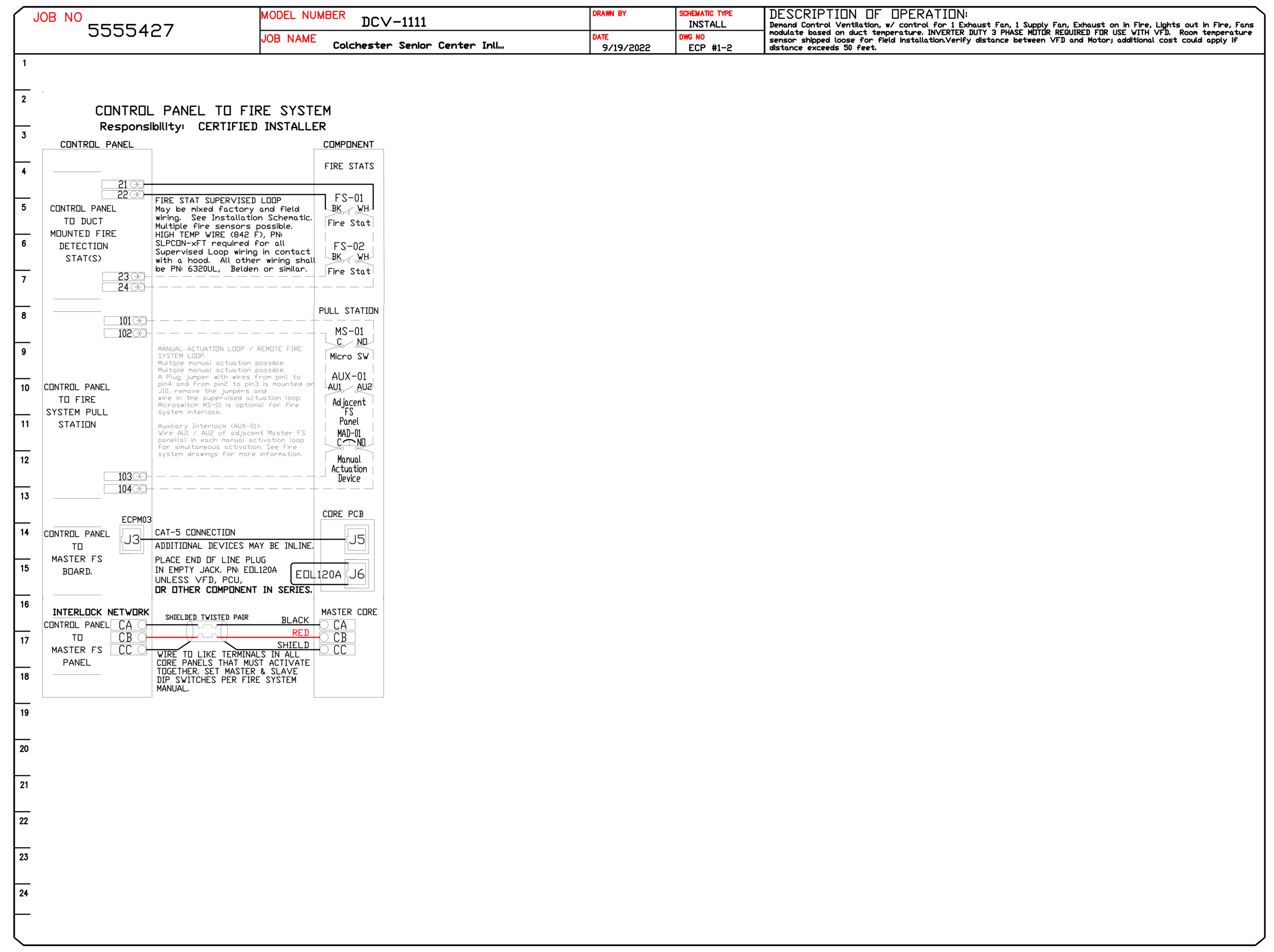
ELECTRICAL PACKAGE – JOB#5555427

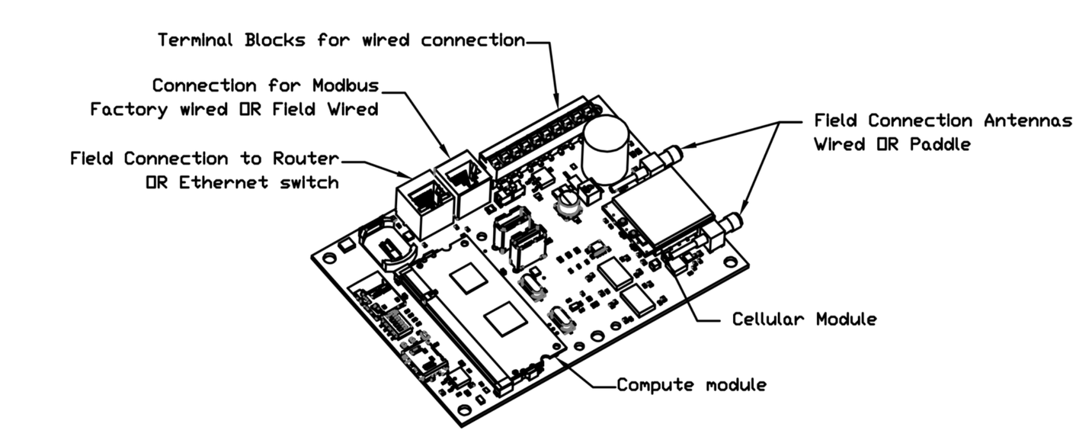
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	ϕ	HP	VOLT	FLA
1		DCV-1111	UTILITY CABINET LEFT	03 - UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	21B	EXHAUST	3	1.500	208	6.5
				HOOD # 1	1 FAN		21C	SUPPLY	3	1.500	208	4.4

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5555427	DCV-1111		INSTALL	Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.
	JOB NAME: Colchester Senior Center Inl...	DATE: 9/19/2022	DWG NO: ECP #1-1	



JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5555427	DCV-1111		INSTALL	Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.
	JOB NAME: Colchester Senior Center Inl...	DATE: 9/19/2022	DWG NO: ECP #1-2	





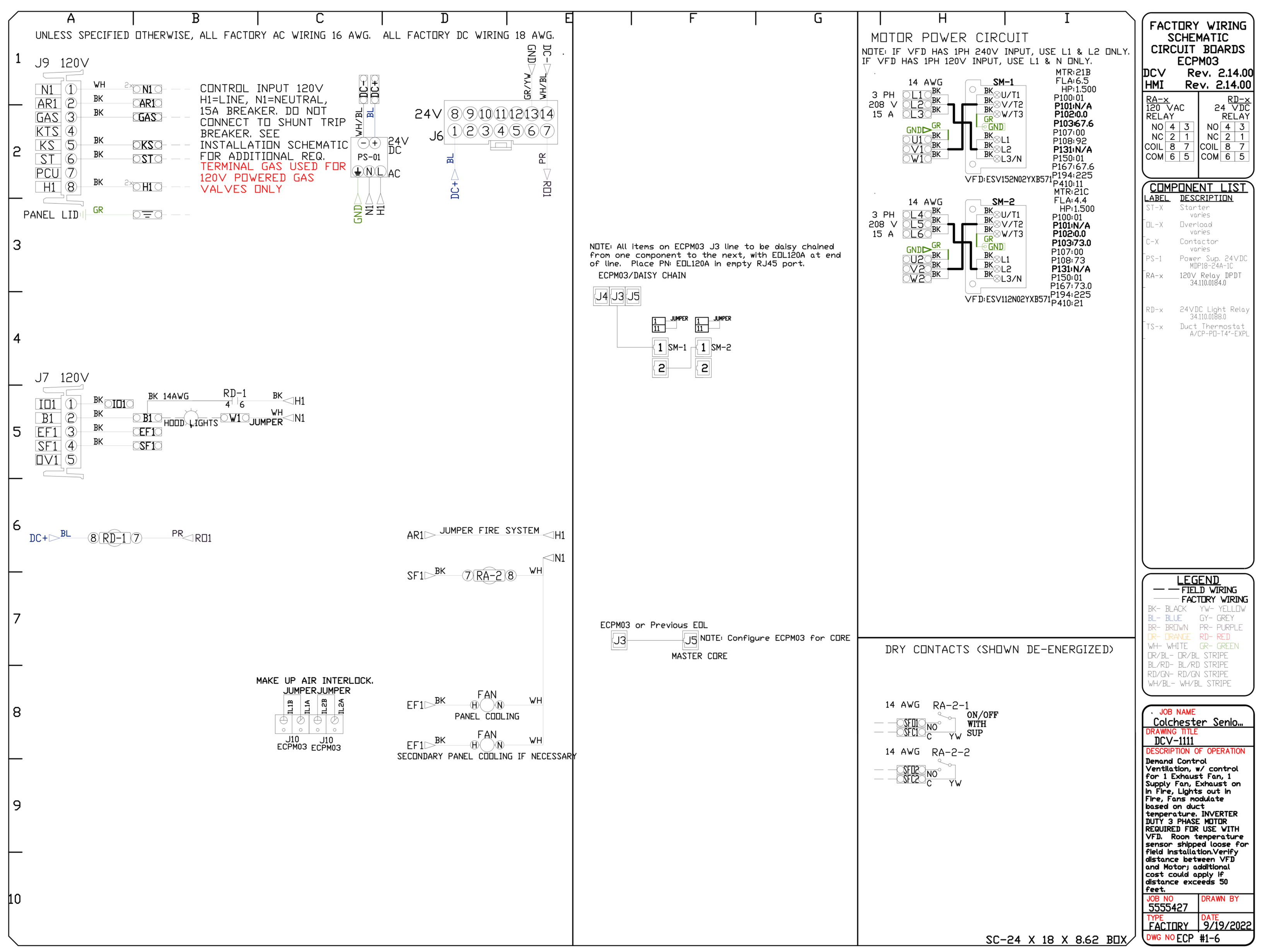
CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

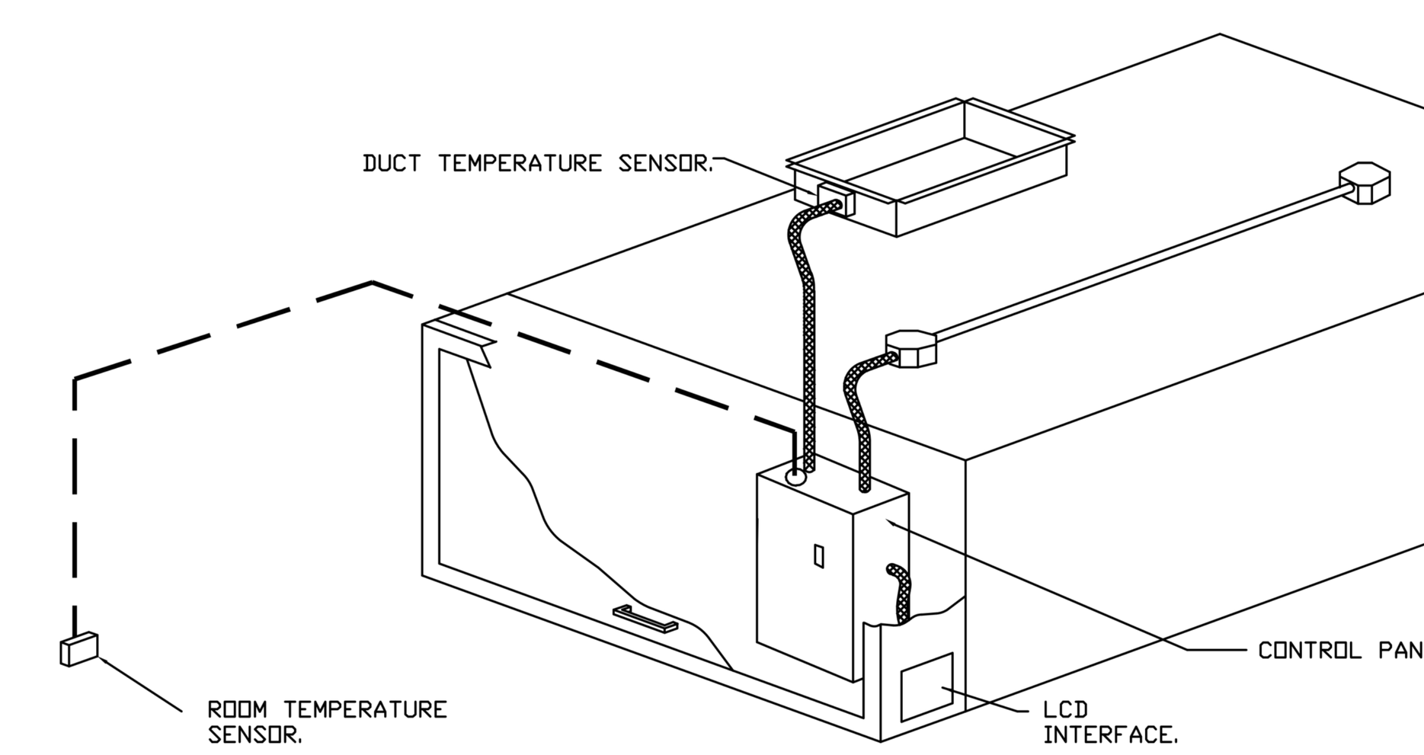
DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Prep Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA DIscharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL



DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

CUSTOMER APPROVAL TO MANUFACTURE:

☐ Approved as Noted
☐ Approved with NO Exception Taken
☐ Revise and Resubmit

SIGNATURE ______________________

Your Title ______________ Date ________

REVISIONS	
DESCRIPTION	DATE:
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www.captiveaire.com

Colchester Senior Center
COLCHESTER, CT, 06415

DATE: 7/13/2022

DWG.#: 5401627

DRAWN BY: TSH-37

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 7

Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415

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Revision:	Description:	Date:	Revised By:
	ISSUED FOR BID	09/09/2022	
△	ADDENDUM 1	09/22/2022	

Drawing Title:
FOODSERVICE EQUIPMENT
HOOD DETAILS

Date: SEPTEMBER 09, 2022
Scale:
Drawn By: Author
Project Number: 20.003
Drawing Number: FS806