



**ADDENDUM #02
TO INVITATION TO BID #01**

**OLD GREENWICH SCHOOL – ADDITIONS AND ALTERATIONS
STATE PROJECT NUMBER 057-0115 EA/RR/CV
285 SOUND BEACH AVE
OLD GREENWICH, CT
APRIL 17, 2025**

The Contract Documents for this Invitation to Bid are modified and/or supplemented as follows and should be included in the Subcontractor's lump sum bid as it relates to their Bid Package Scope of Work:

GENERAL INFORMATION

Bid Package Scope of Work:

1. **ALL Bidders** shall note, the **BID DUE DATE REMAINS FOR ALL PACKAGES – MONDAY APRIL 28, 2025 @ 11:00 AM EST.**

ALL BIDS will be received at the Board of Education of The Town of Greenwich **until 11:00 AM** as noted above and opened publicly and read aloud on **April 28, 2025** at the Board of Education of The Town of Greenwich, 290 Greenwich Ave, Greenwich, CT 06830 after which time no further bids will be accepted. All bidders must include the State Project No. **057-0115 EA/RR/CV** as well as the Greenwich Public Schools Number, Project Name and Bid Package Number & Description (Example – GPS #2511-25 – Old Greenwich School – BP# 1.4.1 – Masonry).

2. **SP+A Bulletin #2** - dated April 16, 2025.

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 Bulletin #2. Bulletin #2 attached

3. **Bid Package Revision: DELETE BP #1.1.1 – Final Cleaning** issued in Addendum #1. A separate Invitation to Bid #02 will be advertised and available for bidding through SmartBid, DAS Portal and GPS website. The new bid package is BP #2.1.1 – Final Cleaning (GPS #2530-25) – Due Date May 8, 2025.
4. **ALL BIDDERS** including those Bidding Set-Aside packages (S/M/WBE) will be required to furnish a 10% Bid Bond along with their bid. Performance and Payment Bonds (100%) will be required. A Bid Bond and 100% Performance & Labor and Material Payment Bond is required as part of these Bid Packages.
5. **ALL Bidders** should incorporate the following Bid RFI questions with answers as they relate to their bid package scope of work:

○ ALL BID PACKAGES

- **RFI #14: Question:** The liquidated damages are not inserted in AIA 133-2019 6.1.6
Response: Reference 3.2.13.2 above in AIA 133 2019
- **RFI #18 Question:** Bid documents show normal Monday-Friday work week. The scope calls for a 6-day work week. Please confirm which one is correct?
Response: WORK HOURS TO BE INCLUDED IN BASE BID: All Subcontractors are required to work a six (6) day work week. Full crews are to be included. At the conclusion of the workday Friday, if there is work still to be performed by the Trade Contractor, then that contractor will be required to work Saturday. Associated premium time is to be included in the base bid.
- **RFI #23 Question:** The phasing plan only shows the First Floor. Should I assume the phases remain the same for the second and third floors?
Response: Phasing Plan is for Floors 2 and 3 as well – Stacked
- **RFI #23 Question:** The insurance limits noted in the Supplemental Instructions appear to conflict with those noted in the AIA A401 Agreement between Contractor and Subcontractor. Please confirm required limits
Response: Follow Supplemental Instructions for Limits.

- **RFI #35** **Question:** Who is the Obligee for this project?
Response: Downes Construction is Obligee for the Bid Bond

○ **BID PACKAGE 1.3.1 - CONCRETE**

- **RFI #38** **Question:** SOW Item # 24 Shoring of deck for concrete placement is by-others, and not part of this bid package.
Response: Shoring of deck for concrete placement is by BP 1.3.1 – Concrete as required.

○ **BID PACKAGE 1.4.1 – MASONRY**

- **RFI #43** **Question:** Please confirm sections (3&4/S602) are by-others and not by BP# 1.5.1.
Response: Detail 3/S602 is to be furnished and installed by BP #1.4.1 - Masonry.
Detail 4/602 is by BP #1.5.1 - Structural Steel, however, BP #1.4.1 -Masonry is to furnish and install the threaded rods.

○ **BID PACKAGE 1.5.1 - STRUCTURAL STEEL**

- **RFI #36** **Question:** "Spec Section 051200 1.6 C. state shop painting applicators are to qualified per AISC Sophisticated Paint Endorsement P2. For more competitive bidding please waive this requirement, as there are no fabricators in this area to have this certification. Any steel to be primed would require an additional supplier increasing costs."
Response: MHA: This paint qualification can be waived. Other AISC qualifications listed in the specification must still be meant.
- **RFI #37** **Question:** SOW Item # 10 Lead/PCB paint abatement is by-others, and not part of this bid package.
Response: Lead Paint and PCB removal are by BP #1.2.1 – Selective Demolition & Hazardous Material Abatement. Delete reference to Specification 021100 as that specification does not exist.
- **RFI #38** **Question:** SOW Item # 24 Shoring of deck for concrete placement is by-others, and not part of this bid package.
Response: Shoring of deck for concrete placement is by BP 1.3.1 – Concrete as required.
- **RFI #40** **Question:** Please confirm the sill support angle shown in section (3/S300) is by-other and not part of BP# 1.5.1.
Response: Sill support angle as shown in section 3/S300 is to be furnished and installed by BP #1.5.2 - Miscellaneous Metals
- **RFI #41** **Question:** Please confirm the elevator sill angle shown in section (9/S300) is by-others and not by BP# 1.5.1.
Response: Elevator sill angle as shown in section (9/S300) is to be furnished and installed by BP #1.5.2 - Miscellaneous Metals.
- **RFI #42** **Question:** Please confirm the bolted lintel in section (1/S601) is by-others and not by BP# 1.5.1.
Response: Bolted lintel in section (1/S601) is to be furnished and installed BP# 1.5.2 including the lintel at the Cold Framed Header
- **RFI #43** **Question:** Please confirm sections (3&4/S602) are by-others and not by BP# 1.5.1.
Response: Detail 3/S602 is to be furnished and installed by BP #1.4.1 - Masonry.
Detail 4/602 is by BP #1.5.1 - Structural Steel, however, BP #1.4.1 -Masonry is to furnish and install the threaded rods.
- **RFI #46** **Question:** Note 7 on (S121) notes to provide W8x18 framing below mechanical equipment curbs. No information or details in provided to the locations or extent of this framing. Please provide locations and details or consider an Allowance for this item.
Response: Locations must be coordinated with mechanical equipment and support must be coordinated with sections and typical details. Notes are provided on plan to assist with locations and support required, but final locations and dimensions must be coordinated with final mechanical equipment locations.
- **RFI #47** **Question:** Please provide deck minimum deck grade required for the Roof deck as indicated on Drawing S144 - Roof Construction Note #1. Spec for 053100 Metal Deck - 2.2 Grade is left blank
Response: Minimum deck grade to be 40ksi yield stress, minimum.

- **RFI #48** **Question:** Drawing S132 - Please provide deck type to use on in-fill area
Response: The infill in front of the new elevator should be a 1-1/2" 20-gauge composite deck as noted on plan. The minimum deck grade is 40ksi yield stress.

○ **BID PACKAGE 1.5.2 – MISCELLANEOUS METALS**

- **RFI #40** **Question:** Please confirm the sill support angle shown in section (3/S300) is by-other and not part of BP# 1.5.1.
Response: Sill support angle as shown in section 3/S300 is to be furnished and installed by BP #1.5.2 - Miscellaneous Metals
- **RFI #41** **Question:** Please confirm the elevator sill angle shown in section (9/S300) is by-others and not by BP# 1.5.1.
Response: Elevator sill angle as shown in section (9/S300) is to be furnished and installed by BP #1.5.2 - Miscellaneous Metals.
- **RFI #42** **Question:** Please confirm the bolted lintel in section (1/S601) is by-others and not by BP# 1.5.1.
Response: Bolted lintel in section (1/S601) is to be furnished and installed BP# 1.5.2 including the lintel at the Cold Framed Header

○ **BID PACKAGE 1.6.2 – ARCHITECTURAL WOODWORK**

- **RFI #32** **Question:** Please confirm casing on frame types CS-1, CS-2, CS-3 will be by others.
Response: Furnish and install new wood door casings are by BP #1.6.2 - Architectural Woodwork.

○ **BID PACKAGE 1.8.1 – ALUMINUM GLASS AND GLAZING**

- **RFI #16** **Question:** CW3 shows ballistic glazing type GL-28. Please confirm if this is correct?
Response: Yes, CW3 requires ballistic glazing.
- **RFI #17** **Question:** There are many frames shown within the floor plans and elevations that are not labeled. Can you please confirm the unmarked frames are existing and that we are only responsible for the AL frames that are clearly labeled within the floor plans and exterior/enlarged elevations?
Response: Yes, non-labeled are Existing to Remain (ETR). Only responsible for labeled windows, hollow metal & aluminum (AL) frames within floor plans and exterior/enlarged elevations. Refer to demolition plans & elevations for Demo Note #23.06, which indicates window panel replacement due to damage by portable ac unit.
- **RFI #19** **Question:** Spec section 083123 – Floor Doors is shown in our scope of work. Is this correct?
Response: BP #1.9.1 - Gypsum Drywall & General Trades is to furnish and install Floor Doors per Specification 0823123 – Floor Doors.
- **RFI #20** **Question:** Please provide spec sections 061053 + 078446. These are shown in our scope of work but we do not see them issued. Review and provide.
Response: Sections are not part of the project. Delete from Scope of Work.
- **RFI #20** **Question:** Please confirm that there are no allowances for our bid package.
Response: There are no Allowances in BP #1.8.1 - Aluminum Glass and Glazing
- **RFI #22** **Question:** Doors # 2004 and 2012 are shown in the door schedule as AL doors in frame type AF3 + AF4. I do not see these frames shown within the documents. Please review and advise.
Response: Door frames are hollow metal borrowed Lites. Refer to revised Drawings A600 & A911 in Bulletin #2.

○ **BID PACKAGE 1.9.1 – GYPSUM DRYWALL AND GENERAL TRADES**

- **RFI #12** **Question:** Wall type F12 clearly states to use polyisocyanurate rigid insulation, only polystyrene rigid is identified in the 072100 Thermal Insulation specification.
Response: Refer to revised Section 072100 in Bulletin #2.
- **RFI #15** **Question:** Is there any specification for the hollow metal doors?
Response: There are no new hollow metal doors.

OLD GREENWICH SCHOOL – ADDITIONS AND ALTERATIONS
STATE PROJECT NUMBER 057-0115 EA/RR/CV

- **RFI #19** **Question:** Spec section 083123 – Floor Doors is shown in our scope of work. Is this correct?
Response: BP #1.9.1 - Gypsum Drywall & General Trades is to furnish and install Floor Doors per Specification 0823123 – Floor Doors.

- **RFI #22** **Question:** Doors # 2004 and 2012 are shown in the door schedule as AL doors in frame type AF3 + AF4. I do not see these frames shown within the documents. Please review and advise.
Response: Door frames are hollow metal borrowed Lites. Refer to revised Drawings A600 & A911 in Bulletin #2.

- **RFI #24** **Question:** 102800 Toilet, Bath and Laundry Accessories - Please confirm every room that has a sink is to receive the following: #17 - Soap Dispenser & #18A – C-Fold Paper Towel Dispenser
Response: Refer to elevations for quantity and location of dispensers in toilet rooms. Dispensers are to be provided by the Owner/installed by the Contractor. C-fold towel dispensers to be purchased and installed by Contractor when above a counter-mounted sink and below upper wall cabinetry.

- **RFI #25** **Question:** Please confirm the janitor closets are not to receive any accessories.
Response: Confirmed

- **RFI #26** **Question:** The Toilet Accessory Schedule calls out #6A which is a Custom Grab Bar. Please advise a manufacturer and model number.
Response: Custom made grab bar as shown on document. Finish and material to match adjacent grab bar, Coordinate with window apron as indicates. V.I.F. and provide shop drawing.

- **RFI #27** **Question:** Is there any specification for the hollow metal doors?
Response: Refer to RFI #15.

- **RFI #28** **Question:** Are we to assume door/frame type “ex” is implied existing to remain? Door elevations NL and NV show note “existing to remain” but this would contradict with the door schedule (see opening 1002.2 as example – only glazing and jamb are indicated as existing). Please clarify.
Response: Yes, "EX" or "ETR" = Existing to Remain. Glazing and frame will remain. Door to be painted or stained. For clarification refer to the Door Legend and Door Keynote Column for hardware core description.

- **RFI #29** **Question:** Are we to provide factory glazing in all wood doors? HM by others?
Response: Yes, per 081416. There are no HM doors.

- **RFI #30** **Question:** Please confirm we are only providing glazing at wood doors indicated with a glazing type. HM and side/borrowed lite glazing by others.
Response: Contractor to provide glazing for all wood doors indicated to receive. HM and side/borrowed lite glazing is by BP #1.8.1 – Aluminum Glass & Glazing.

- **RFI #31** **Question:** Are we to use the hardware column on the door schedule for each opening? The 087100 specs have clean hardware sets, but none of these are assigned to any openings.
Response: Refer to revised Section 087100 in Bulletin #2.

- **RFI #32** **Question:** Please confirm casing on frame types CS-1, CS-2, CS-3 will be by others.
Response: Furnish and install new wood door casings are by BP #1.6.2 - Architectural Woodwork.

- **RFI #33** **Question:** Door elevation HG1 applies to doors 1003.2, 1006.2, 1038.2, V101.1, and V101.2. The elevation says “smooth fiberglass w/solid core.” They all appear to be going in existing frames. Some doors are scheduled as aluminum, others as hollow metal. How should we carry these openings? HM/AL as scheduled, or fiberglass as noted under HG1 elevation?
Response: These are existing doors to remain. Refer to Drawing A000 for graphic legend for existing vs new. Also refer to the Door Legend and Door Keynote Column on Drawings A910 & A911. Door schedule indicates the status, material & type for both new & existing doors to remain since all doors will require hardware & some will need to be painted or stained to match.

○ **BID PACKAGE 1.9.5 – PAINTING & WALL COVERING**

- **RFI #28** **Question:** Are we to assume door/frame type “ex” is implied existing to remain? Door elevations NL and NV show note “existing to remain” but this would contradict with the door schedule (see opening 1002.2 as example – only glazing and jamb are indicated as existing). Please clarify.
Response: Yes, "EX" or "ETR" = Existing to Remain. Glazing and frame will remain. Door to be painted or stained. For clarification refer to the Door Legend and Door Keynote Column for hardware core description.

○ **BID PACKAGE 1.23.1 – HVAC SYSTEMS**

- **RFI #50** **Question:** Mechanical Specifications do not specify Johnson Controls brands as acceptable.
 - a. Is JCI / Hitachi an acceptable manufacturer for the scheduled VRF Equipment?
 - b. Is York / JCI an acceptable manufacturer for the scheduled AHU(s)?
 - c. Is York / JCI an acceptable manufacturer for the scheduled DOA(s) Units?
 - d. Is York / JCI an acceptable manufacturer for the scheduled packaged RTU(s)?**Response:** a. Provide substitution request following Section 012500 procedures, specifically the side-by-side comparison. This cannot be determined at Bid Time; bid should include one of the specified manufacturers.
b. Provide substitution request following Section 012500 procedures, specifically the side-by-side comparison. This cannot be determined at Bid Time; bid should include one of the specified manufacturers.
c. Manufacturer is acceptable.
d. Manufacturer is acceptable.

○ **BID PACKAGE 1.26.1 – ELECTRICAL**

- **RFI #13** **Question:** Site lighting fixtures are listed on the Fixture Schedule but not shown on Drawings. Please advise
Response: Fixtures are wall packs.

○ **BID PACKAGE 1.32.2 – LANDSCAPING**

- **RFI #7** **Question:** Detail 5 on LP501 calls for Book Pavers to be installed within Dashed Lines in the Mulch. Are they to sit on mulch or subbase. What is the size of the Book Paver?
Response: Book paver to be set in mulch, no subbase required. Book pavers are provided by Owner. Refer to revised Drawing LP501 in Bulletin #2.
- **RFI #8** **Question:** Please confirm the stone mulch is within the CSK trees. The south planting bed lists the Red Twig Dogwoods as CSK, however, north list tress as CS. Please advise
Response: Stone mulch is proposed within the planting areas adjacent to the main entry to the school. Similar to bark mulch, stone mulch should be place over trees, shrubs and ground plantings. 11 CS noted north of the main entry should be 11 CSK. Refer to revised Drawing LP101 in Bulletin #2.
- **RFI #9** **Question:** LP101 - HYK is shown on the planting plan, however, there is no HYK. Was this meant to be HYC?
Response: HYK is meant to be HYC. Refer to revised Drawing LP101 in Bulletin #2. Quantities within plant schedule are accurate; 73 HYC plants proposed.

END ADDENDUM #02

Attachment(s):

- SP+A Bulletin #2 - dated April 16, 2025

ADDITION & ALTERATIONS

**OLD GREENWICH SCHOOL
285 SOUND BEACH AVENUE
OLD GREENWICH, CT 06870
STATE PROJECT #057-0115 EA/RR/CV**

S/P+A PROJECT #22.382

DATE: April 16, 2025

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 Bulletin #2.

Changes to the Specifications:

- SECTION 072100, THERMAL INSULATION:
 - Page 1, Article 1.2.A., add the following:

“5. Polyisocyanurate foam-plastic board insulation.”
 - Page 3, Part 2, add the following:

“2.7 POLYISOCYANURATE FOAM-PLASTIC BOARD INSULATION

A. 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:

 1. Atlas Roofing Corporation
 2. DuPont de Nemours, Inc.
 3. Johns Manville, a Berkshire Hathaway company
 4. Rmax, Inc.
 5. Substitutions: Under provisions of Section 012500 “Substitution Procedures”.

B. Polyisocyanurate Board Insulation: ASTM C 1289, glass-fiber-mat faced, Type II, Class 2.” *(Per RFI #12)*
- SECTION 087100, DOOR HARDWARE, Pages 19-31, Hardware Sets, delete in their entirety. New Hardware Sets have been added and are attached as part of this bulletin. (14) *(Per RFI #31)*
- SECTION 230900, INSTRUMENTATION & CONTROL FOR HVAC, Page 3, Article 2.1.A., revise to read as follows:

“Distech Controls by CTC Controls only. Contact Mike Sullo, (800) 890.2022, msullo@cttempcontrols.com” *(Per Internal Review)*

Changes to the Drawings:

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

-
- LP101 PLANTING PLAN *(Per RFI #8 & #9)*
 - LP501 PLANTING DETAILS *(Per RFI #7)*
 - The following ARCHITECTURAL drawings have been deleted in their entirety. New drawings (3) have been added and are attached as part of this bulletin*:
 - A600 STOREFRONT, CURTAIN WALL & WINDOWS ELEVATIONS *(Per RFI #22)*
 - A910 DOOR SCHEDULE *(Per Internal Review)*
 - A911 DOOR SCHEDULE *(Per RFI #22 & Internal Review)*
 - The following MECHANICAL drawings have been deleted in their entirety. New drawings (18) have been added and are attached as part of this bulletin*:
 - M001 GENERAL MECHANICAL NOTES, LEGENDS & ABBREVIATIONS *(Per Internal Review)*
 - M010 MECHANICAL DEMOLITION PLAN – 1ST FLOOR *(Per Internal Review)*
 - M101 FIRST FLOOR HVAC PLAN PART 'A' *(Per Internal Review)*
 - M102 FIRST FLOOR HVAC PLAN PART 'B' *(Per Internal Review)*
 - M103 FIRST FLOOR HVAC PLAN PART 'C' *(Per Internal Review)*
 - M110 SECOND FLOOR HVAC PLAN PART 'A' *(Per Internal Review)*
 - M120 SECOND FLOOR HVAC PLAN PART 'B' *(Per Internal Review)*
 - M130 SECOND FLOOR HVAC PLAN PART 'C' *(Per Internal Review)*
 - M140 THIRD FLOOR HVAC PLAN PART 'B' *(Per Internal Review)*
 - M150 THIRD FLOOR HVAC PLAN PART 'C' *(Per Internal Review)*
 - M180 ROOF PLAN PART 'A' *(Per Internal Review)*
 - M202 1ST FLOOR HVAC PIPING PLAN PART 'B' *(Per Internal Review)*
 - M203 1ST FLOOR HVAC PIPING PLAN PART 'C' *(Per Internal Review)*
 - M210 2ND FLOOR HVAC PIPING PLAN PART 'A' *(Per Internal Review)*
 - M240 3RD FLOOR HVAC PIPING PLAN PART 'B' *(Per Internal Review)*
 - M301 MECHANICAL DETAILS *(Per Internal Review)*
 - M400-M401 MECHANICAL SCHEDULES *(Per Internal Review)*

The bulletin consists of sixteen (16) pages of 8½" x 11" text and twenty-three (23) 30" x 42" drawings*.
End of Bulletin #2

be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
4. At existing openings with new hardware, the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer's Abbreviations:

1. HS – HES
2. MC – Medeco
3. MK – McKinney
4. MR – Markar
5. NO - Norton
6. PE – Pemko
7. RF – Rixson
8. RO – Rockwood
9. SA – SARGENT
10. SU – Securitron

Hardware Sets

Set: 1.0

Description: Exterior Main Entry Pair - Blast Resistant - Card Access; Auto; 2 Pulls
Door: V103.1

2	Continuous Hinge	FM3500 EL-CEPTx32D Security Studs	630	MR
1	Mullion (Heavy Duty Fixed)	12-HD980	PC	SA
1	Rim Exit Device, NL,EL,RX,LX,CD	16 53 55 56 72 8804 862	US32D	SA
1	Rim Exit Device, NL,EL,RX,LX,CD	16 53 55 56 72 8810 862	US32D	SA
3	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Surf Overhead Stop	9-X36	630	RF
1	Surface Closer (Specialty App)	281 PD10	EN	SA
1	Automatic Opener	6061/6071	689	NO
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Astragal	305CN		PE
1	Gasketing	2891AS TKSP x 290AS TKSP		PE
1	Mullion Gasketing	5110BL		PE
2	Sweep	315CN TKSP		PE
1	Threshold (Coord w/Details)	1716AK Frost Guard FHSL14SS-2		PE
2	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
2	Door Wiring Harness	QC-Cxxx (Jamb to Device)		MK
2	Frame Wiring Harness	QC-CxxxP (Jamb to J-box)		MK
2	Door Switch	671		NO
1	Power Supply	AQL4-R8E1		SU
1	Remote Release Switch			
1	Card Reader			
1	Wiring Diagram	Elevation; Point-to-Point		SA

Notes: Coordinate with Blast/Ballistic door manufacturer (typ). Coordinate hardware with door size, thickness, and weight. Mount operator on left leaf; card reader and actuator on right side.

Operation: Doors are normally closed and secured. Valid card at reader (or signal from remote switch where shown) retracts latches for momentary or extended access, then enables outside actuator. Inside actuator retracts latch, then auto opens door. Monitoring by door position switches. During a loss of power the door will default to secure. Free egress at all times. Lock status will not change when the fire detection/suppression systems are activated. Depressing pushrail will activate request to exit switch for appropriate monitor by EAC systems. Outside key override.

Set: 2.0

Description: Vestibule Main Entry Pair - Bullet Resistant - Card Access; Auto; 2 Pulls

Door: V103.2

2	Continuous Hinge	FM3500 EL-CEPTx32D Security Studs	630	MR
1	Mullion (Heavy Duty Fixed)	12-HD980	PC	SA
1	Rim Exit Device, NL,EL,RX,LX,CD	16 53 55 56 72 8804 862	US32D	SA
1	Rim Exit Device, NL,EL,RX,LX,CD	16 53 55 56 72 8810 862	US32D	SA
3	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Surf Overhead Stop	9-X36	630	RF
1	Surface Closer (Specialty App)	281 PD10	EN	SA
1	Automatic Opener	6061/6071	689	NO
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Astragal	305CN		PE
1	Gasketing	2891AS TKSP x 290AS TKSP		PE
1	Mullion Gasketing	5110BL		PE
2	Sweep	315CN TKSP		PE
1	Threshold (Coord w/Details)	1716AK Frost Guard FHSL14SS-2		PE
2	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
2	Door Wiring Harness	QC-Cxxx (Jamb to Device)		MK
2	Frame Wiring Harness	QC-CxxxP (Jamb to J-box)		MK
2	Door Switch	671		NO
1	Power Supply	AQL4-R8E1		SU
1	Remote Release Switch			
1	Card Reader			
1	Wiring Diagram	Elevation; Point-to-Point		SA

Notes: Coordinate with Blast/Ballistic door manufacturer (typ). Coordinate hardware with door size, thickness and weight. Mount operator on left leaf; card reader and actuator on right side.

Operation: Doors are normally closed and secured. Valid card at reader (or signal from remote switch where shown) retracts latches for momentary or extended access, then enables outside actuator. Inside actuator retracts latch, then auto opens door. Monitoring by door position switches. During a loss of power the door will default to secure. Free egress at all times. Lock status will not change when the fire detection/suppression systems are activated. Depressing pushrail will activate request to exit switch for appropriate monitor by EAC systems. Outside key override.

Set: 3.0

Description: Exterior Alum Pair - Card Access; Auto

Door: 1000.1, 1013.1, C115, C116, V102.2, V104.1

2	Continuous Hinge	CFM-SLF-HD1-M EL-CEPTx32D		PE
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
1	Rim Exit Device, NL,EL,RX,LX,CD	16 53 55 56 72 8804 862	US32D	SA
1	Rim Exit Device, EO,RX,CD	16 55 8810 EO	US32D	SA
4	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Mullion Cylinder	72 980C1	US26D	SA
2	Conc Overhead Stop	1-X36	630	RF
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Automatic Opener	6061/6071	689	NO

1	Mullion Gasketing	5110BL		PE
2	Sweep	3452CNB TKSP		PE
1	Threshold (Coord w/Details)	2010APK FG Pemkote FHSL14SS		PE
2	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
2	Door Wiring Harness	QC-Cxxx (Jamb to Device)		MK
2	Frame Wiring Harness	QC-CxxxP (Jamb to J-box)		MK
2	Door Switch	671		NO
1	Power Supply	AQL4-R8E1		SU
1	Card Reader			
1	Wiring Diagram	Elevation; Point-to-Point		SA
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Notes: Mount operator on left leaf; card reader and actuator on right side.

Operation: Doors are normally closed and secured. Valid card at reader (or signal from remote switch where shown) retracts latches for momentary access, then enables outside actuator. Inside actuator retracts latch, then auto opens door. Monitoring by door position switches. During a loss of power the door will default to secure. Free egress at all times. Lock status will not change when the fire detection/suppression systems are activated. Depressing pushrail will activate request to exit switch for appropriate monitor by EAC systems. Outside key override.

Set: 4.0

Description: Exterior Alum Pair - Card Access

Door: C114.2, V105.1

2	Continuous Hinge	CFM-SLF-HD1-M EL-CEPTx32D		PE
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
1	Rim Exit Device, NL,EL,RX,LX,CD	16 53 55 56 72 8804 862	US32D	SA
1	Rim Exit Device, EO,RX,CD	16 55 8810 EO	US32D	SA
4	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Mullion Cylinder	72 980C1	US26D	SA
2	Conc Overhead Stop	1-X36	630	RF
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Mullion Gasketing	5110BL		PE
2	Sweep	3452CNB TKSP		PE
1	Threshold (Coord w/Details)	2010APK FG Pemkote FHSL14SS		PE
2	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
2	Door Wiring Harness	QC-Cxxx (Jamb to Device)		MK
2	Frame Wiring Harness	QC-CxxxP (Jamb to J-box)		MK
1	Power Supply	AQL4-R8E1		SU
1	Card Reader			
1	Wiring Diagram	Elevation; Point-to-Point		SA
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Operation: Doors are normally closed and locked. Valid card at reader retracts latch for momentary access. Monitoring by door position switches. During a loss of power the door will default to secure. Free egress at all times. Lock status will not change when the fire detection/suppression systems are activated. Depressing pushrail will activate request to exit switch for appropriate monitor by EAC systems. Outside key override.

Set: 5.0

Description: Exterior Alum Single - Classroom – Auto

Door: 1027.2

1	Continuous Hinge	CFM-SLF-HD1-M Series		PE
1	Rim Exit Device, NL,CD	72 16 8804 862	US32D	SA
1	Mortise Cylinder	72 42 x CAM	US32D	SA

DOOR HARDWARE

3	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Conc Overhead Stop	1-X36	630	RF
1	Automatic Opener	6061/6071	689	NO
1	Sweep	3452CNB TKSP		PE
1	Threshold (Coord w/Details)	2010APK FG Pemkote FHSL14SS		PE
1	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
2	Door Switch	671		NO
1	Keyswitch	MKA		SU
1	Wiring Diagram	Elevation; Point-to-Point		SA
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Notes: Exit device must be dogged manually for auto operator to function. Key switch turns operator on/off.

Set: 5.1

Description: Exterior Alum Single - Card Access

Door: C105

1	Continuous Hinge	CFM-SLF-HD1-M EL-CEPTx32D		PE
1	Rim Exit Device, NL,EL,RX,LX,CD	16 53 55 56 72 8804 862	US32D	SA
2	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Conc Overhead Stop	1-X36	630	RF
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Sweep	3452CNB TKSP		PE
1	Threshold (Coord w/Details)	2010APK FG Pemkote FHSL14SS		PE
1	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
1	Door Wiring Harness	QC-Cxxx (Jamb to Device)		MK
1	Frame Wiring Harness	QC-CxxxP (Jamb to J-box)		MK
1	Power Supply	AQL4-R8E1		SU
1	Card Reader			
1	Wiring Diagram	Elevation; Point-to-Point		SA
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Operation: Doors are normally closed and locked. Valid card at reader retracts latch for momentary access. Monitoring by door position switches. During a loss of power the door will default to secure. Free egress at all times. Lock status will not change when the fire detection/suppression systems are activated. Depressing pushrail will activate request to exit switch for appropriate monitor by EAC systems. Outside key override.

Set: 6.0

Description: Exterior Alum Pair

Door: 1013.2, 1045.1

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
1	Rim Exit Device, NL,CD	72 16 8804 862	US32D	SA
1	Rim Exit Device, Exit Only, CD	72 16 8810 EO	US32D	SA
4	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Mullion Cylinder	72 980C1	US26D	SA
2	Conc Overhead Stop	1-X36	630	RF
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Mullion Gasketing	5110BL		PE
2	Sweep	3452CNB TKSP		PE
1	Threshold (Coord w/Details)	2010APK FG Pemkote FHSL14SS		PE
2	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Set: 7.0

Description: Alum Interior Pair - Push-Pull
Door: V105.2

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
2	Fixed Push Rail	8893	US32D	SA
2	Pull	862	US32D	SA
2	Conc Overhead Stop	1-X36	630	RF
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Threshold (Coord w/Details)	2716AK FHSL14SS		PE
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Set: 7.1

Description: Vestibule Alum Pair - Card Access; Auto
Door: V104.2

2	Continuous Hinge	CFM-SLF-HD1-M EL-CEPTx32D		PE
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
1	Rim Exit Device, NL,EL,RX,LX,CD	16 53 55 56 72 8804 862	US32D	SA
1	Rim Exit Device, EO,RX,CD	16 55 8810 EO	US32D	SA
4	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Mullion Cylinder	72 980C1	US26D	SA
2	Conc Overhead Stop	1-X36	630	RF
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Automatic Opener	6061/6071	689	NO
1	Mullion Gasketing	5110BL		PE
2	Sweep	3452CNB TKSP		PE
1	Threshold (Coord w/Details)	2716AK FHSL14SS		PE
2	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
2	Door Wiring Harness	QC-Cxxx (Jamb to Device)		MK
2	Frame Wiring Harness	QC-CxxxP (Jamb to J-box)		MK
2	Door Switch	671		NO
1	Power Supply	AQL4-R8E1		SU
1	Card Reader			
1	Wiring Diagram	Elevation; Point-to-Point		SA
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Notes: Mount operator on left leaf; card reader and actuator on right side.

Operation: Doors are normally closed and secured. Valid card at reader (or signal from remote switch where shown) retracts latches for momentary access, then enables outside actuator. Inside actuator retracts latch, then auto opens door. Monitoring by door position switches. During a loss of power the door will default to secure. Free egress at all times. Lock status will not change when the fire detection/suppression systems are activated. Depressing pushrail will activate request to exit switch for appropriate monitor by EAC systems. Outside key override.

Set: 8.0

Description: Exterior Alum Pair - Courtyard – Auto
Door: 1045.3

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
2	Rim Exit Device, Classroom, Weather	WH-CPC 16 72 8813 ETL NC-E35	US32D	SA
1	Mortise Cylinder	72 42 x CAM	US32D	SA
6	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Mullion Cylinder	72 980C1	US26D	SA
2	Conc Overhead Stop	6-X36	630	RF

DOOR HARDWARE

1	Surface Closer (Cam/Track/Pull)	422 CTB2	EN	SA
1	Automatic Opener	6011	689	NO
2	Sweep	315CN TKSP		PE
1	Threshold (Coord w/Details)	1716AK Frost Guard FHSL14SS-2		PE
2	Door Switch	671		NO
1	Keyswitch	MKA		SU
1	Wiring Diagram	Elevation; Point-to-Point		SA
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Notes: Exit devices must be dogged manually for auto operator to function. Key switch turns operator on/off. Coordinate concealed overhead stops with track-style closer and operator during submittal stage. Concealed stops may need to be changed to surface Rixson 9 Series and mounted on push side.

Set: 9.0

Description: Exterior Alum Pair – Courtyard
Door: 1045.2

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
2	Rim Exit Device, Classroom, Weather	WH-CPC 16 72 8813 ETL NC-E35	US32D	SA
1	Mortise Cylinder	72 42 x CAM	US32D	SA
5	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Mullion Cylinder	72 980C1	US26D	SA
2	Conc Overhead Stop	6-X36	630	RF
2	Surface Closer (Cam,Track,Pull)	422 CTB2	EN	SA
2	Sweep	315CN TKSP		PE
1	Threshold (Coord w/Details)	1716AK Frost Guard FHSL14SS-2		PE
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Notes: Coordinate concealed overhead stops with track-style closers during submittal stage. Concealed stops may need to be changed to surface Rixson 9 Series and mounted on push side.

Set: 10.0

Description: Building Services; Storage Pair (>100 SF)
Door: 1018

6	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Dust Proof Strike	570	US26	RO
1	Flush Bolts (Self-Latching)	2845; 2945	US26D	RO
1	Storeroom Lock	72 10XG04 LL	US26D	SA
1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Coordinator	1700	Black	RO
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Meeting Edge Seal	S772BL		PE
1	Astragal	357SP TKSP		PE
1	Head & Jamb Gasketing	S88BL		PE

Set: 11.0

Description: Building Services; Storage
Door: 1005, 1015, 1019.1, CS2.01, CS3.01, CS102, CS104, CS105, CS106, S304

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Storeroom Lock	72 10XG04 LL	US26D	SA
1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC

DOOR HARDWARE

1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE

Set: 12.0

Description: Electrical/Generator – Panic

Door: 1017

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Rim Exit Device, Storeroom	12 72 8804 ETL	US32D	SA
1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE

Set: 13.0

Description: Electrical Pair – Panic

Door: 1016

6	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
1	Rim Exit Device, Exit Only	LD (12- If Rated) 8810 EO	US32D	SA
1	Rim Exit Device, Storeroom	12 72 8804 ETL	US32D	SA
2	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Mullion Cylinder	72 980C1	US26D	SA
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Meeting Edge Seal	S772BL		PE
1	Head & Jamb Gasketing	S88BL		PE
1	Mullion Gasketing	5110BL		PE

Set: 14.0

Description: Isolation

Door: 1034

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Passage Latch	10XU15 LL	US26D	SA
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE

Set: 15.0

Description: Conference Pair WD x AL

Door: 2012

6	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Dust Proof Strike	570	US26	RO
1	Flush Bolts (Self-Latching)	2845; 2945	US26D	RO
1	Classroom Lock	72 10XG37 LL	US26D	SA
1	Half Dummy Trim	10XU93 LL	US26D	SA
1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA

DOOR HARDWARE

2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Meeting Edge Seal	S772BL		PE
1	Head & Jamb Gasketing	S88BL		PE
1	Mullion Gasketing	5110BL		PE

Set: 16.0

Description: Office; Conference

Door: 1034.3, 1037, 2007, 2008, 2010.1, 2010.2, 2015, 3013, 3016

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Classroom Lock	72 10XG37 LL	US26D	SA
1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE

Set: 17.0

Description: Main Office/Reception

Door: 1034.1, 1034.2

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Classroom Security Lock	72 10XG38 LL	US26D	SA
2	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE

Set: 18.0

Description: Work Room; Mail

Door: 1030, 1034.4

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Classroom Lock	72 10XG37 LL	US26D	SA
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
3	Silencer	608-RKW		RO

Set: 19.0

Description: Single Use Restroom

Door: T2.02, T106, T110, T111, T112, T114, T116, T117, T118, T119, T3.02

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Privacy Indicator Lockset	10XU65 VSLL V33	US26D	SA
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE

Notes: Provide passage function at kindergarten and Pre-K toilet rooms. Provide finger guards at kindergarten and Pre-K areas (MK1A/MK1B Fingersafe USA).

Set: 20.0

Description: Multi-Person Restroom

Door: T2.01, T2.03, T2.04, T105, T109, T113, T115.1, T115.2, T3.01, T3.03, T3.04

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Public Toilet Deadlock	72 4878	US26D	SA
2	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Push Pull (Prep For Deadbolt)	110x73C/73CL	US32D-MS	RO
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Mop Plate	K1050 4" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
3	Silencer	608-RKW		RO

Notes: Provide finger guards at kindergarten and Pre-K areas (MK1A/MK1B Fingersafe USA).**Set: 21.0**

Description: Classroom (Student/Staff Areas)

Door: 1031, 1032, 1033, 1035, 1036, 1038.1, 1041, 1043, 1044, 1046, 1047, 1050, 1051, 2009, 2013, 2014, 2024, 3001, 3010, 3012.1, 3012.2, 3014, 3015, 3025

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Classroom Security Lock	72 10XG38 LL	US26D	SA
2	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE

Notes: Provide finger guards at kindergarten and Pre-K areas (MK1A/MK1B Fingersafe USA).**Set: 22.0**

Description: Band/Orchestra

Door: 1020

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Classroom Security Lock	72 10XG38 LL	US26D	SA
2	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE
1	Door Bottom	434ARL		PE

Notes: Provide finger guards at kindergarten and Pre-K areas (MK1A/MK1B Fingersafe USA).**Set: 23.0**

Description: Classroom Storage

Door: 1043.1, 1048.1, 1048.2, 1049.1, 1049.2, 3009

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Classroom Lock	72 10XG37 LL	US26D	SA
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO

1	Head & Jamb Gasketing	S88BL		PE
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Notes: Provide finger guards at kindergarten and Pre-K areas (MK1A/MK1B Fingersafe USA).

Set: 24.0

Description: Lift at Stage

Door: E102.1, E102.2

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Communicating Storeroom Lock	72 10XG07 LL	US26D	SA
1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Electric Strike	1500C-LM	630	HS
1	SMART Pac Bridge Rectifier	2005M3		HS
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE
1	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
1	Frame Wiring Harness	QC-CxxxP (Jamb to J-box)		MK
1	Power Supply	AQL4-R8E1		SU
1	Wiring Diagram	Elevation; Point-to-Point		SA

Notes: Coordinate all hardware with Lift Mfr.

Operation: Door is normally closed and locked. Electric strike will unlock when signaled by lift, upon signal from fire alarm, or by signal from emergency button within the lift. If fire rated, electric strike must be fail-secure and therefore, will not unlock upon signal from fire alarm. Inside face of door has no projecting hardware. Outside to have lever trim and key override.

Set: 25.0

Description: Assembly Single

Door: 1009

1	Continuous Hinge	CFM-SLF-HD1-M Series		PE
1	Rim Exit Device, Intruder	72 LD(12- If Rated) 49 8816 ETL	US32D	SA
2	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Head & Jamb Gasketing	S88BL		PE

Set: 26.0

Description: Assembly Pair - Hold Open

Door: 1010.2, 1010.3, 1010.4

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
2	Rim Exit Device, Intruder	72 LD(12- If Rated) 49 8816 ETL	US32D	SA
5	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Mullion Cylinder	72 980C1	US26D	SA
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Electromagnetic Holder	998M (Or To Suit Conditions)	689	RF
1	Meeting Edge Seal	S772BL		PE
1	Head & Jamb Gasketing	S88BL		PE
1	Mullion Gasketing	5110BL		PE

Notes: Interface with building fire alarm system to release door(s) from hold open. Review mullion used with hold open with code official as mullion poses a safety hazard. Vertical rod exit devices are not available with double-cylinder intruder function.

Set: 27.0

Description: Assembly Unequal Pair - Hold Open

Door: 1010.1

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
1	Dust Proof Strike	570	US26	RO
1	Flush Bolts (Self-Latching)	2845; 2945	US26D	RO
1	Mortise Exit Device, Intruder	12 72 8916 ETL	US32D	SA
1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Coordinator	2600 Series (Brackets/Filler)	Black	RO
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Electromagnetic Holder	998M (Or To Suit Conditions)	689	RF
1	Meeting Edge Seal	S772BL		PE
1	Astragal	357SP TKSP		PE
1	Head & Jamb Gasketing	S88BL		PE
1	Mullion Gasketing	5110BL		PE

Notes: Interface with building fire alarm system to release door(s) from hold open. Coordinate closer with inactive door width.

Set: 28.0

Description: Stair; Corridor Pair

Door: S101.1, S101.2, V102.1

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
2	Surface Vert Rod Exit, Passage	12 NB8715 ETL	US32D	SA
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Meeting Edge Seal	S772BL		PE
1	Head & Jamb Gasketing	S88BL		PE

Set: 29.0

Description: Stair; Corridor Pair - Hold Open

Door: 1014, C102, S102, S103, S201.1, S202, S203, S301.1, S302, S303.1

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
2	Surface Vert Rod Exit, Passage	12 NB8715 ETL	US32D	SA
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Electromagnetic Holder	998M (Or To Suit Conditions)	689	RF
1	Meeting Edge Seal	S772BL		PE
1	Head & Jamb Gasketing	S88BL		PE

Notes: Interface with building fire alarm system to release door(s) from hold open.

Operation: Upper-level stair doors that need to be lockable for lock-down will need to be fail-safe, tied to the fire alarm to meet re-entry provisions of the code. Otherwise, special approval will be needed from the AHJ.

Set: 30.0

Description: Stair; Corridor Pair - Hold Open; Lockable
Door: C113

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
2	Surface Vert Rod Exit, Classroom	12 72 NB8713 ETL	US32D	SA
2	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Electromagnetic Holder	998M (Or To Suit Conditions)	689	RF
1	Meeting Edge Seal	S772BL		PE
1	Head & Jamb Gasketing	S88BL		PE

Notes: Interface with building fire alarm system to release door(s) from hold open.

Set: 31.0

Description: Existing Exterior Door with Card Access and Auto Operator
Door: 1022.2

1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
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Notes: All hardware existing to remain.

Set: 32.0

Description: Existing Door - New Lock and Keyed Core (VIF)
Door: 1008, 2002, 2022.1, 2022.2, 2023, 3000, 3023.1, 3023.2, 3024, CS2.02, CS3.02

1	Storeroom Lock	72 10XG04 LL	US26D	SA
1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC

Notes: Match existing lock function.

Set: 33.0

Description: Existing Door, Frame, and Hardware - Re-key ALL Existing Locks as required
Door: 1011, 1012, 2016, 2017, 2019, 2020, 3004, 3005, 3007, 3008, 3017, 3018, 3020, 3021, T101, T102, T103, T104, T107, T108

- 1 Rekey all existing locks on this project on-site as required.

Set: 34.0

Description: Existing Door - New Keyed Core (VIF)
Door: 1000.2, 1001, 1002.1, 1002.2, 1003.1, 1003.2, 1004, 1006.1, 1006.2, 1007, 1021, 1022.1, 1023, 1024, 1025, 1026, 1027.1, 1028, 1029, 1038.2, 1040, 2000, 2001, 2003, 2006, 2018, 2021, 3002, 3003, 3006, 3011, 3019, 3022, CS101, S201.2, S301.2, S303.2

1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
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Set: 35.0

Description: Existing Exterior Single (VIF) - New Hardware
Door: 1002.3

1	Continuous Hinge	CFM-SLF-HD1-M Series		PE
1	Storeroom Lock	72 10XG04 LL	US26D	SA
1	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Surf Overhead Stop	9-X36	630	RF

DOOR HARDWARE

1	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Gasketing	2891AS TKSP x 290AS TKSP		PE
1	Sweep	3452CNB TKSP		PE
1	Threshold (Coord w/Details)	2010APK FG Pemkote FHSL14SS		PE
1	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		

Set: 36.0

Description: Existing Exterior Alum Pair (VIF) - New Hardware; Card Access

Door: V101.1

2	Continuous Hinge	CFM-SLF-HD1-M EL-CEPTx32D		PE
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
1	Rim Exit Device, NL,EL,RX,LX,CD	16 53 55 56 72 8804 862	US32D	SA
1	Rim Exit Device, EO,RX,CD	16 55 8810 EO	US32D	SA
4	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC
1	Mullion Cylinder	72 980C1	US26D	SA
2	Surf Overhead Stop	9-X36	630	RF
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
1	Mullion Gasketing	5110BL		PE
2	Sweep	3452CNB TKSP		PE
1	Threshold (Coord w/Details)	2010APK FG Pemkote FHSL14SS		PE
2	Door Contact (Recessed)	195-12 DPDT UL George Risk Industries		
2	Door Wiring Harness	QC-Cxxx (Jamb to Device)		MK
2	Frame Wiring Harness	QC-CxxxP (Jamb to J-box)		MK
1	Power Supply	AQL4-R8E1		SU
1	Card Reader			
1	Wiring Diagram	Elevation; Point-to-Point		SA
1	Weather/Perimeter Seals	Supplied w/Door/Frame Assembly		

Operation: Doors are normally closed and locked. Valid card at reader retracts latch for momentary access. Monitoring by door position switches. During a loss of power the door will default to secure. Free egress at all times. Lock status will not change when the fire detection/suppression systems are activated. Depressing pushrail will activate request to exit switch for appropriate monitor by EAC systems. Outside key override.

Set: 37.0

Description: Existing Vestibule Pair (VIF) - New Hardware; Push-Pull

Door: V101.2

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
2	Fixed Push Rail	8893	US32D	SA
2	Pull	862	US32D	SA
2	Surf Overhead Stop	9-X36	630	RF
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
1	Threshold (Coord w/Details)	2716AK FHSL14SS		PE

Set: 38.0

Description: Existing Pair Media Center (VIF)

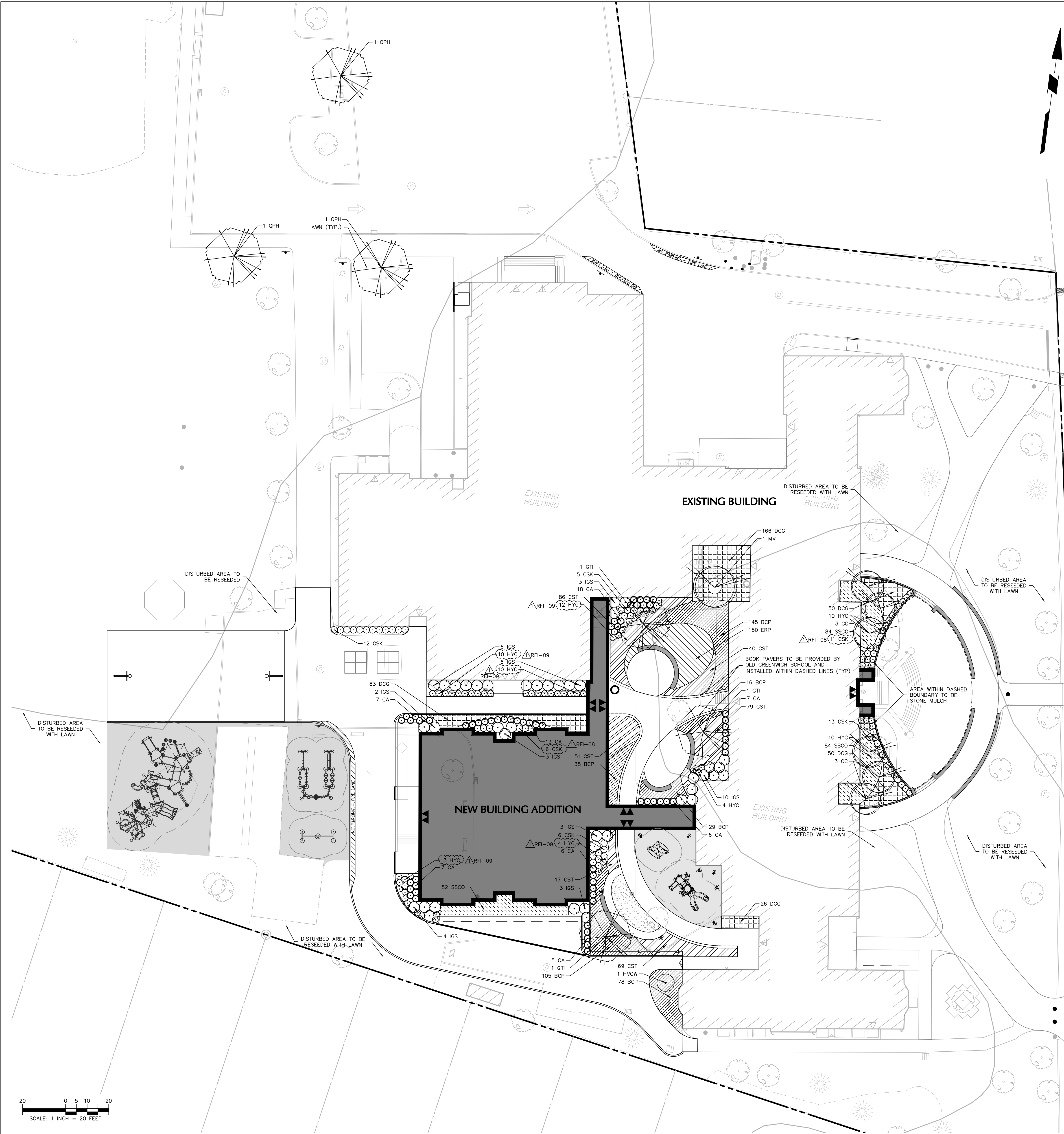
Door: 2004

2	Continuous Hinge	CFM-SLF-HD1-M Series		PE
1	Key Removable Mullion	L980S (12- If Fire Rated)	PC	SA
2	Rim Exit Device, Intruder	72 LD(12- If Rated) 49 8816 ETL	US32D	SA
5	Medeco X4 SFIC Core	7-Pin VKC Keys/CKC Cores GMK	26	MC

DOOR HARDWARE

1	Mullion Cylinder	72 980C1	US26D	SA
2	Surface Closer (Delayed Action)	DA 351 O; P10 (Or To Suit Conditions)	EN	SA
2	Kick Plate	K1050 12" CSK BEV	US32D	RO
2	Door Stop	401; 441CU; Overhead As Required	US26D	RO
1	Meeting Edge Seal	S772BL		PE
1	Head & Jamb Gasketing	S88BL		PE
1	Mullion Gasketing	5110BL		PE

END OF SECTION 087100



PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREE(S)						
GTI	3	GLEDTISIA TRIACANTHOS INERMIS	THORNLESS HONEYLOCUST	3-3 1/2" CAL.	B+B	-
OPH	3	QUERCUS PHELLOS	WILLOW OAK	3-3 1/2" CAL.	B+B	-
ORNAMENTAL TREE(S)						
CC	6	CERIS CANADENSIS	EASTERN REDBUD	10-12'	B+B	-
MV	1	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	10-12'	B+B	-
EVERGREEN SHRUB(S)						
IGS	40	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	24-30"	CONTAINER	-
DECIDUOUS SHRUB(S)						
CA	64	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	24-30"	CONTAINER	-
CSK	51	CORNUS SERICEA 'KELSEYI'	KELSEYS DWARF RED TWIG DOGWOOD	24-30"	CONTAINER	-
HVCW	1	HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	24-30"	CONTAINER	-
HYC	73	HYPERICUM CALYCINUM	ST. JOHNSWORT	24-30"	CONTAINER	-
ORNAMENTAL GRASS(ES)						
BCP	411	BOUTELLOUA CURTIPENDULA	SIDEOATS GRAMA	2 GAL.	CONTAINER	spaced @ 24" o.c.
CST	342	CAREX STRICTA	TUSsock SEDGE	2 GAL.	CONTAINER	spaced @ 24" o.c.
DCG	375	DESCHAMPSIA CESPITOSA 'GOLDTAU'	TUFTED HAIRGRASS 'GOLDTAU'	2 GAL.	CONTAINER	spaced @ 24" o.c.
ERP	150	ERAGROSTIS PECTINACEA	PURPLE LOVEGRASS	2 GAL.	CONTAINER	spaced @ 24" o.c.
SSCO	250	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	2 GAL.	CONTAINER	spaced @ 24" o.c.

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

Project Title:



ADDITIONS & ALTERATION TO:

Old Greenwich Elementary School

285 SOUND BEACH AVENUE

OLD GREENWICH, CONNECTICUT 06870



SILVER PETRUCCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucci.com

Revision:	Description:	Date:	Revised By:
1	BULLETIN #2	04/16/2025	AC

Drawing Title:
PLANTING PLAN

Project Phase:
ISSUED FOR BID

Project Number:
STATE PROJECT #057-0115 EA/RR/CV

Date:
11/22/2024

Scale:

Drawn By:
AC

Project Number:
22-382

Drawing Number:

LP101

GENERAL LANDSCAPE PLANTING NOTES:

PLANTING MATERIALS

- 1. NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES", 1942 EDITION PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE.
- 2. STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION.
- 3. NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN SHAPE, COLOR AND HABIT. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES.
- 4. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL.

DELIVERY, STORAGE, AND HANDLING

- 1. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING DELIVERY, AND WHILE STORED AT SITE.
- 2. TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSIT. DO NOT DROP OR BREAK BALLED STOCK DURING DELIVERY OR HANDLING.
- 3. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT BALL WRAPPING AND BINDING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL AT THE TIME OF PLANTING. IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8" INTO THE PLANTING HOLE. WITH CONTAINER-GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO LOCATIONS.
- 4. THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY PLANTED. DELAYED AS SPECIFIED. TREES AND SHRUBS SHALL SET TREES AND SHRUBS IN SHADE. PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.

INSTALLATION

- 1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES PRIOR TO THE START OF EXCAVATION ACTIVITIES. NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.
- 2. THE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.
- 3. NO PLANTING SHALL BE INSTALLED BEFORE ACCEPTANCE OF FINAL GRADING.
- 4. COMPLETE QUANTITIES OF PLANTS FOR EACH AREA TO BE AVAILABLE ON SITE AT THE TIME OF PLANTING FOR FIELD LAYOUT BY OWNER'S REPRESENTATIVE. NO PARTIAL LAYOUT AND PLANTING OF AREAS WILL BE ACCEPTABLE.
- 5. INSTALL PLANTS WITH ROOT FLARES FLUSH WITH GRADE. IMMEDIATELY REPLANT PLANTS WHICH SETTLE OUT OF PLUMB OR BELOW FINISH GRADE.
- 6. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
- 7. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND UNEVEN SURFACES PRIOR TO PLANTING OR MULCHING.
- 8. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES.
- 9. PLANT UNDER FULL SUPERVISION OF CERTIFIED ARBORIST, NURSERYMAN, OR LICENSED LANDSCAPE ARCHITECT. PROVIDE WRITTEN VERIFICATION OF CERTIFICATION AND/OR LICENSE FOR OWNER'S REPRESENTATIVE'S APPROVAL.
- 10. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.
- 11. LOOSE OR CRACKED ROOTBALLS ARE UNACCEPTABLE.
- 12. DO NOT USE TREE WRAP.
- 13. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED. REMOVE TOP 2/3 OF WIRE BASKETS. REMOVE TOP 1/3 OF BURLAP. SYNTHETIC BURLAP WILL NOT BE ACCEPTED. FOR CONTAINER PLANTS, REMOVE CONTAINER AND SCARIFY EDGES OF ROOTBALL 1/2" DEEP IN A MINIMUM OF FOUR LOCATIONS.
- 14. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.
- 15. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH.
- 16. RAISE AND REPLANT PLANTS THAT SETTLE AFTER PLANTING AND WATERING.
- 17. AFTER COMPLETION OF A PROJECT, ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A SHREDDED HARDWOOD BARK OR APPROVED EQUAL MULCH THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST.

GUARANTEE

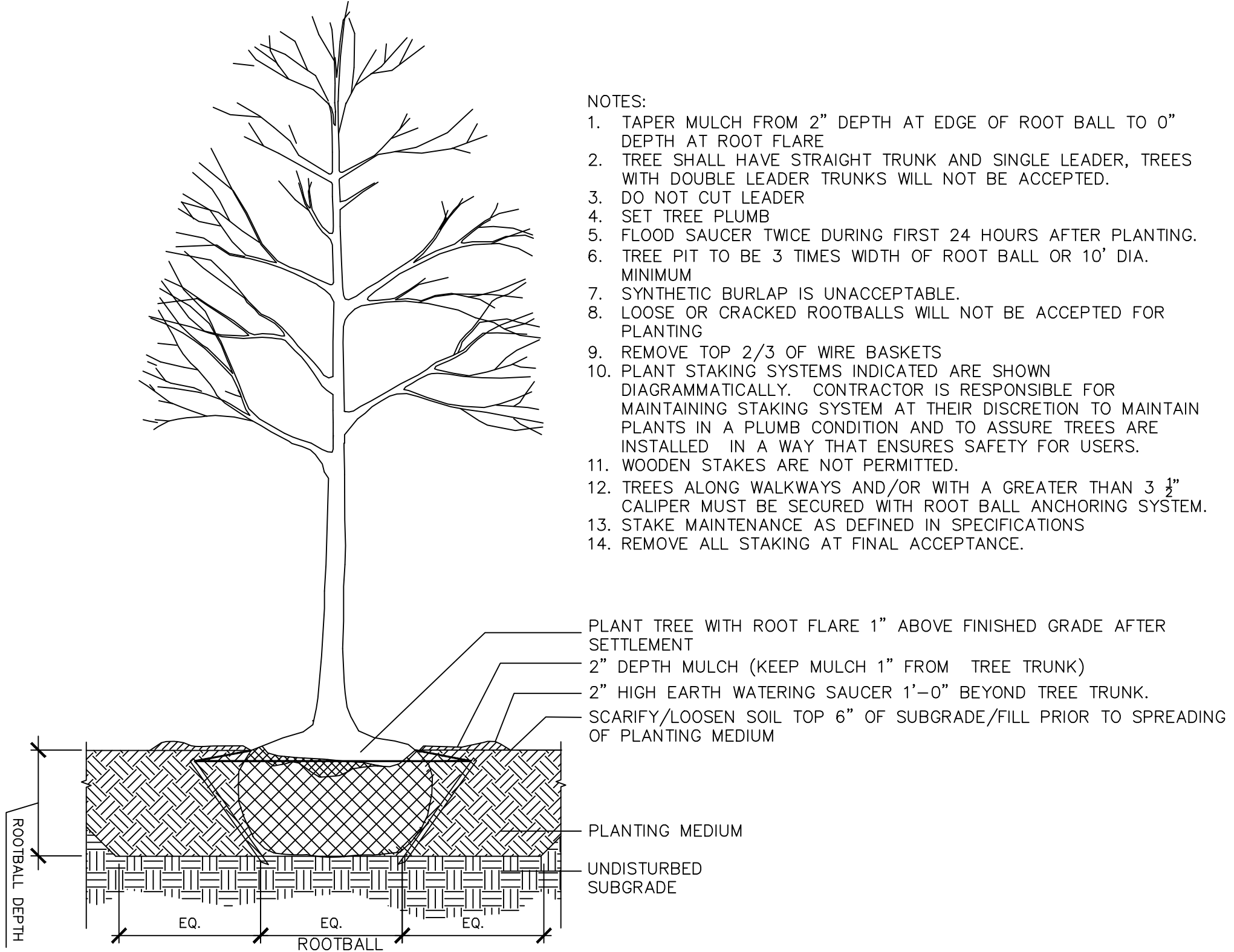
- 1. NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF 24 MONTHS FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL THAT IS UNHEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- 2. GENERAL SEED NOTES:
 - A) FINAL SEED MIXTURES, RATES, AND SPECIES TO BE DETERMINED BASED ON PROJECT LANDSCAPE ARCHITECT REVIEW.
 - B) SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL, (SEPTEMBER 1 TO OCTOBER 15).
 - C) ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A NON-SELECTIVE HERBICIDE PER MANUFACTURER'S SPECIFICATIONS.
 - D) IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL SEEDER WHERE APPLICABLE.
 - E) THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW FOR PROPER GERMINATION.

LAWN WATERING SCHEDULE

THE FOLLOWING WATERING SCHEDULE COVERS ROUGHLY 8 WEEKS TO ESTABLISH A HEALTHY STAND OF GRASS FROM SEED. THE CONTRACTOR SHALL BE OBLIGATED TO ENSURE A HEALTHY STAND OF GRASS AT THE END OF THE MAINTENANCE/BOND PERIOD. ANY BARE OR DEAD AREAS IN THE LAWN SHALL BE PREPARED, RESEEDED AND REESTABLISHED PRIOR TO THE END OF THE MAINTENANCE/BOND PERIOD AND TO THE SATISFACTION OF THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER.

IMPORTANT ASPECTS TO ATTAINING AND SUSTAINING A HEALTHY STAND OF GRASS ARE THE INSTALLATION OF TOPSOIL, SEED BED PREPARATION, ATTAINING OPTIMAL pH FOR THE INTENDED PLANT SPECIES, FERTILIZING, MULCH COVERING, AND SUFFICIENT WATERING PER THESE NOTES AND/OR PROJECT SPECIFICATIONS.

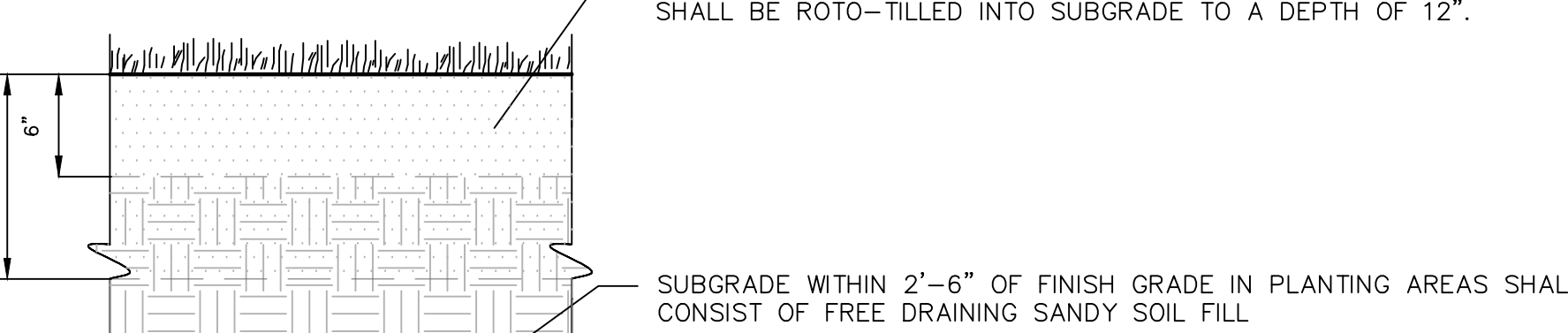
- 1. SEEDING SHALL BE DONE DURING THE SEASONS SPECIFIED IN THE LAWN SEED MIX NOTES AND/OR PROJECT SPECIFICATIONS.
- 2. AFTER THE SEEDBED IS PREPARED, SEED IS INSTALLED, AND MULCH IS APPLIED, WATER LIGHTLY TO KEEP THE TOP 2 INCHES OF SOIL CONSISTENTLY MOIST, NOT SATURATED. AT NO TIME SHOULD WATER BE APPLIED TO THE POINT OF RUNOFF OR THE DISPLACEMENT OF SEED.
- 3. DEPENDING ON SOIL TEMPERATURES, IT MAY TAKE SEVERAL WEEKS FOR GERMINATION TO OCCUR. DIFFERENT SPECIES WITHIN THE MIX GERMINATE AT DIFFERENT TIMES AND THEREFORE CONTRACTOR SHOULD CONTINUE THE LIGHT WATERING, AS DESCRIBED ABOVE, UNTIL THERE IS AT LEAST 2 INCHES OF GROWTH THROUGHOUT.
- 4. AT THIS POINT, WATERING FREQUENCY MAY BE REDUCED TO EVERY 3 TO 5 DAYS. WATER SHALL BE APPLIED TO WET A 6 INCH MINIMUM SOIL DEPTH TO PROMOTE HEALTHY DEEP ROOTS.
- 5. BEGIN MOWING ONCE PER WEEK AFTER THE GRASS HAS REACHED 3 INCHES HEIGHT. MOW TO A HEIGHT OF NO LESS THAN 2-1/2 INCHES. AFTER 2 TO 3 WEEKS OF MOWING, CONTINUE TO WATER TO A 6 INCH MINIMUM SOIL DEPTH AS NECESSARY PER WEATHER CONDITIONS, AND SOIL MOISTURE SENSORS IF APPLICABLE.



DECIDUOUS TREE PLANTING

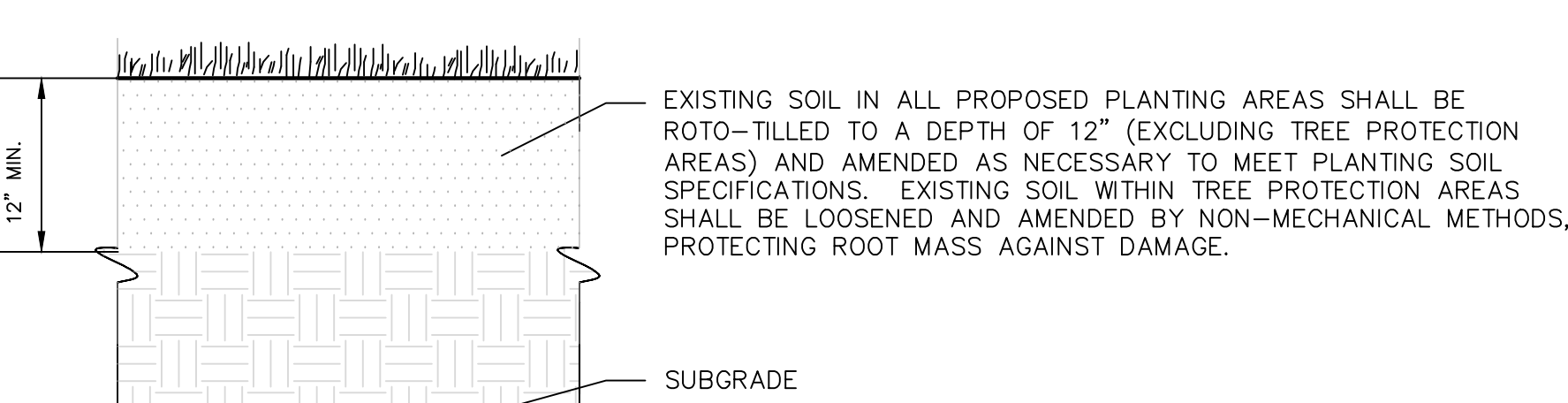
GENERAL NOTE:

DUE TO GENERAL CONSTRUCTION ACTIVITIES AND ADJACENT SITE COMPACTION REQUIREMENTS, SUBGRADE SOILS WITHIN PROPOSED PLANTING AREAS TEND TO BECOME HIGHLY COMPACTED. IN ORDER TO CREATE A HEALTHY GROWTH MEDIUM TO ALLOW PROPOSED PLANTINGS TO ESTABLISH A VIGOROUS ROOT MASS, THIS SUBGRADE SOIL MUST UNDERGO A RESTORATION PROCESS. IN ADDITION, IMPORTED OR AMENDED EXISTING SOILS SHALL BE MIXED WITH SUBGRADE SOILS WHERE THEY MEET IN ORDER TO CREATE A TRANSITIONAL GRADIENT TO ALLOW FOR PROPER DRAINAGE.



*EXISTING SOIL STRIPPED FROM SITE CAN BE USED FOR PLANTING SOIL UPON APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT. CONTRACTOR SHALL REFER TO PLANTING SOIL SPECIFICATIONS FOR REQUIRED SUBMITTALS.

PLANTING SOIL WITHIN AREAS OF CUT OR RAISED GRADE



PLANTING SOIL WITHIN AREAS OF UNCHANGED GRADE

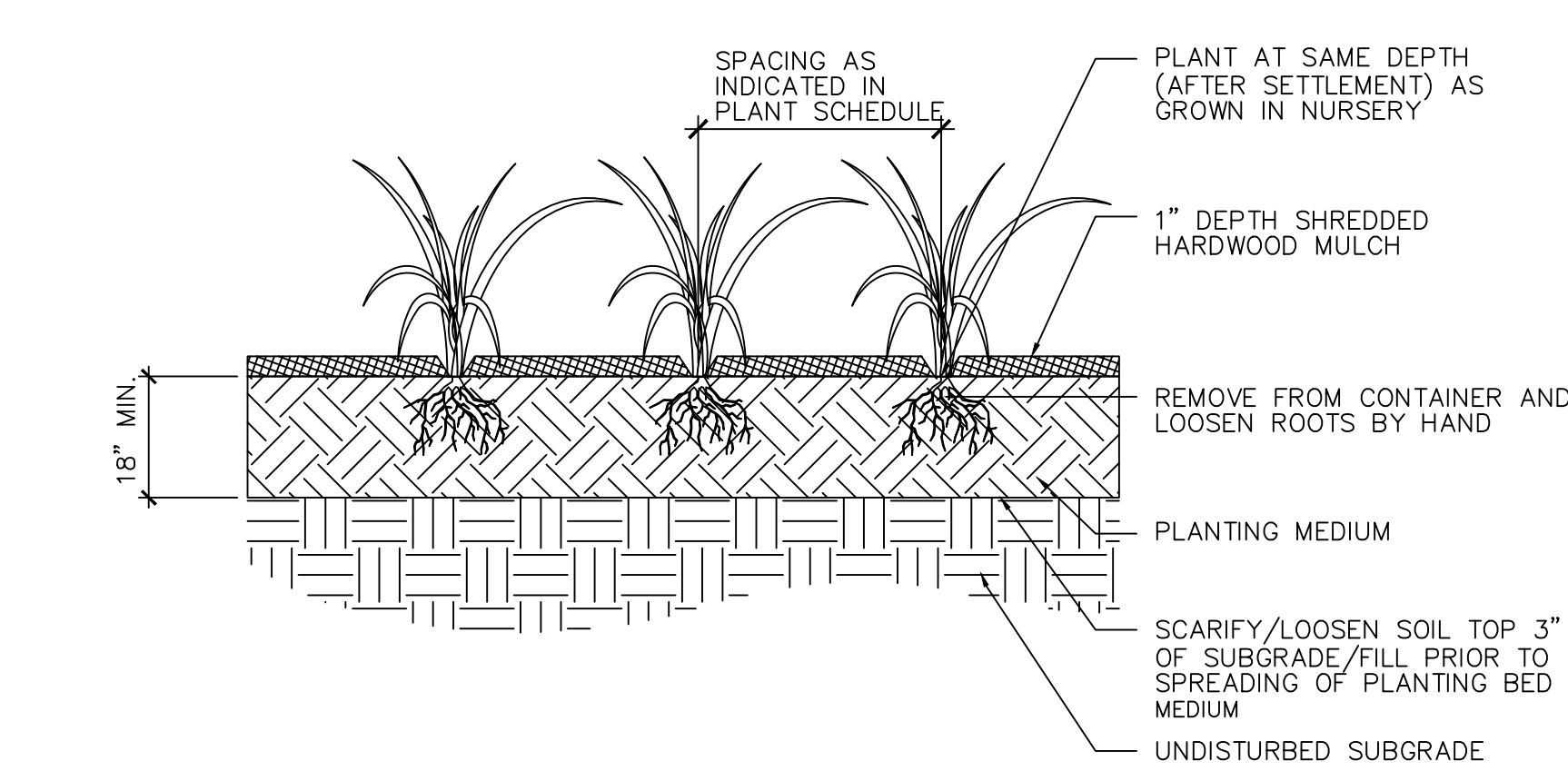
NOTES:

- 1. CONTRACTOR IS RESPONSIBLE TO SEND SAMPLES OF EXISTING SOILS INTENDED FOR USE IN PLANTING AREAS (1 PER 500 CY.) TO TESTING LABORATORY OR UNIVERSITY COOPERATIVE EXTENSION FOR TESTING. ALL TESTING COSTS ARE AT THE CONTRACTOR'S EXPENSE.
- 2. RECYCLED CRUSHED CONCRETE AND ASPHALT MILLINGS SHALL NOT BE PLACED WITHIN 2'-6" OF FINISH GRADE IN PROPOSED LANDSCAPE AREAS.
- 3. IMPORTED FILL SHALL CONTAIN NO CONTAMINATION IN EXCEEDENCE OF THE APPLICABLE STATE ENVIRONMENTAL STANDARDS AND MEET THE ENVIRONMENTAL REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF COMPLIANCE PRIOR TO DELIVERY OF ANY FILL TO THE SITE.
- 4. CONTRACTOR TO LIGHTLY COMPACT ALL PLACED PLANTING SOILS AND RAISE GRADES ACCORDINGLY TO ALLOW FOR FUTURE SETTLEMENT OF PLANTING SOILS (TYP.)
- 5. NO STONES, WOOD CHIPS, OR DEBRIS LARGER THAN 1/2" SHALL BE ACCEPTABLE WITHIN PLANTING AREAS.

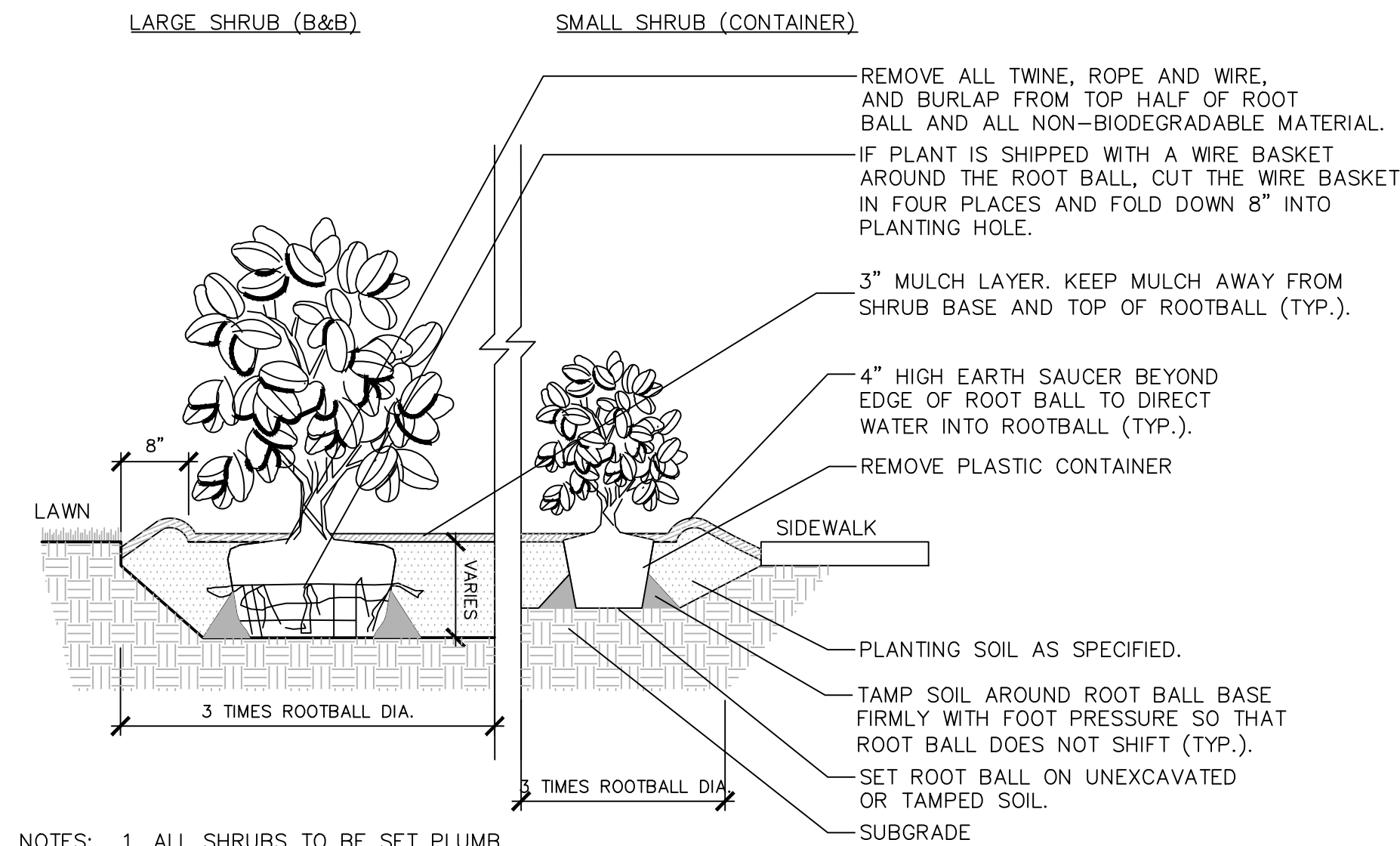
PLANTING SOIL

NOTES:

- 1. LOOSE OR CRACKED ROOT BALLS ARE UNACCEPTABLE
- 2. EXCAVATE TO REQUIRED DEPTH AND DO NOT EXCAVATE BELOW ROOT BALL DEPTH
- 3. FLOOD WATERING SAUCER TWICE IN FIRST 24 HOURS AFTER PLANTING.
- 4. RAISE AND REPLANT ANY SHRUBS THAT SETTLE AFTER PLANTING & WATERING.
- 5. REMOVE 1/3 BURLAP PRIOR TO BACKFILL. SYNTHETIC BURLAP UNACCEPTABLE
- 6. FOR CONTAINERIZED PLANTS: REMOVE CONTAINER PRIOR TO PLANTING, SCARIFY ROOT BALL BELOW EDGE 1/2" DEEP IN FOUR LOCATIONS.

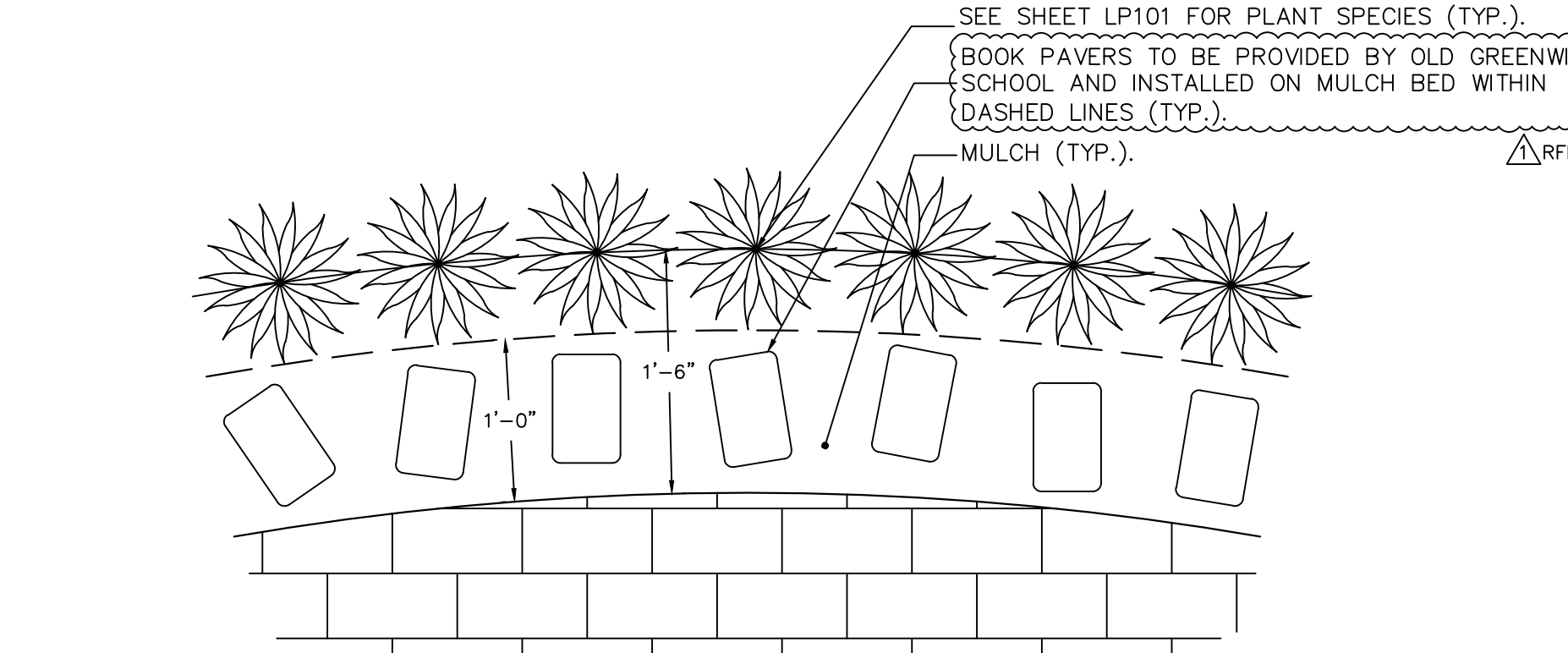


ORNAMENTAL GRASS PLANTING



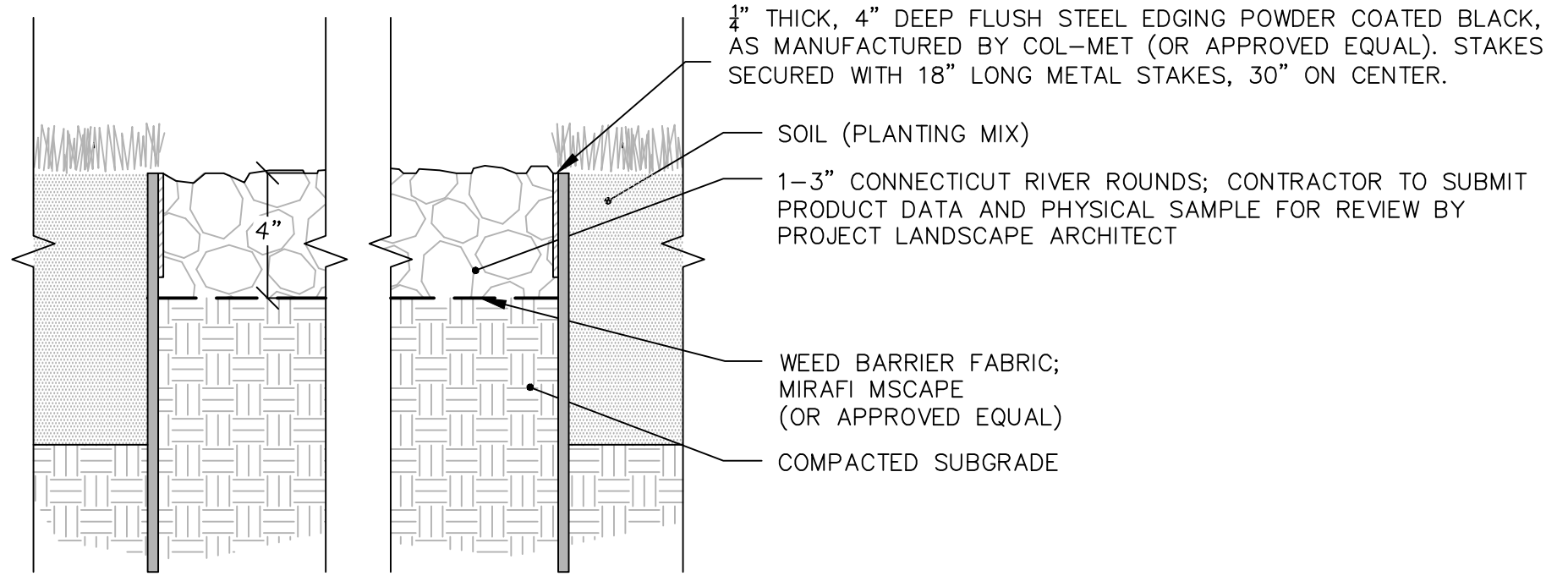
- NOTES:
- 1. ALL SHRUBS TO BE SET PLUMB.
- 2. REFER TO LANDSCAPE PLAN FOR SPACING OF INDIVIDUAL PLANTS.
- 3. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.

SHRUB PLANTING



NOTE: CONTRACTOR TO PROVIDE PAVER MOCK UP (10 PAVERS IN ROW) FOR REVIEW BY THE OWNER AND PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

PAVER BORDER IN LANDSCAPE



NOTES:

- 1. IN LOCATIONS WHERE STONE ABUTS HARDSCAPE, STEEL EDGING IS NOT REQUIRED.

STONE MULCH

Project Title:



ADDITIONS & ALTERATION TO:
Old Greenwich Elementary School
285 SOUND BEACH AVENUE
OLD GREENWICH, CONNECTICUT 06870

S
P
A

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Revision:	Description:	Date:	Revised By:
1	BULLETIN #2	04/16/2025	AC

Drawing Title:

PLANTING DETAILS

Project Phase:

ISSUED FOR BID

Project Phase:

STATE PROJECT #057-0115 EA/RR/CV

Date:

11/22/2024

Scale:

Drawn By:

AC

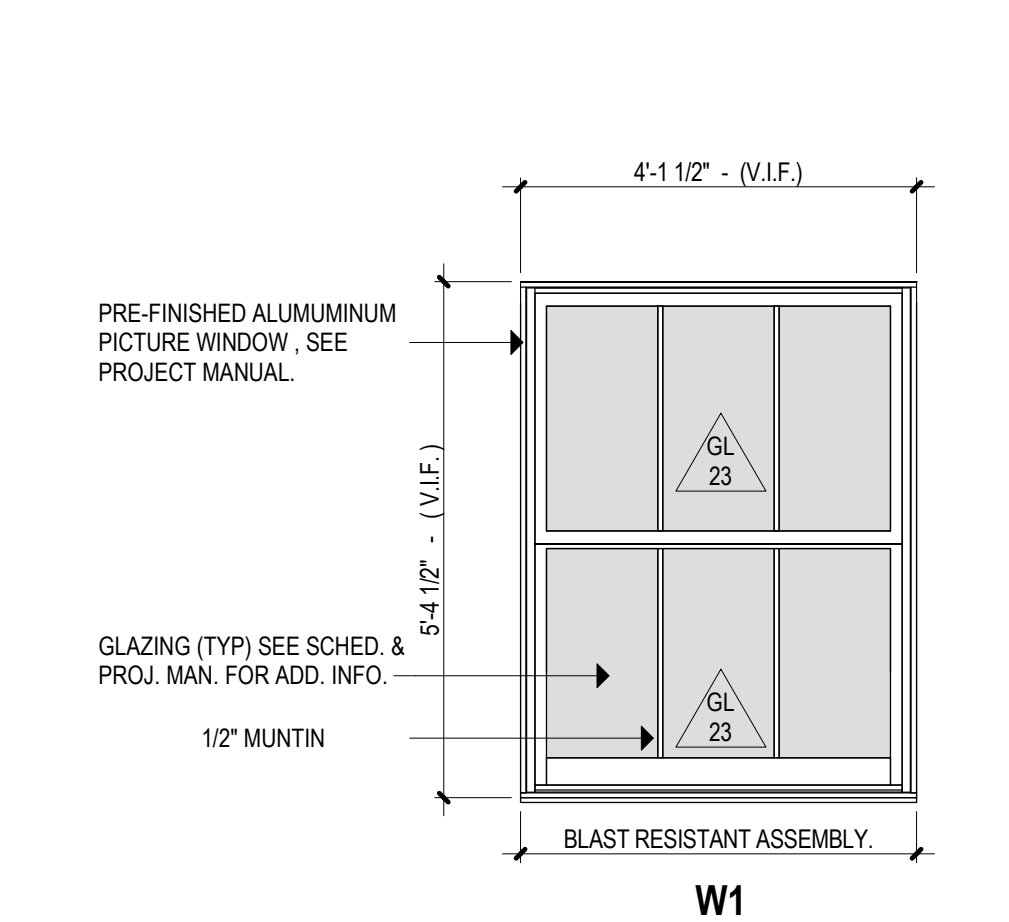
Project Number:

22-382

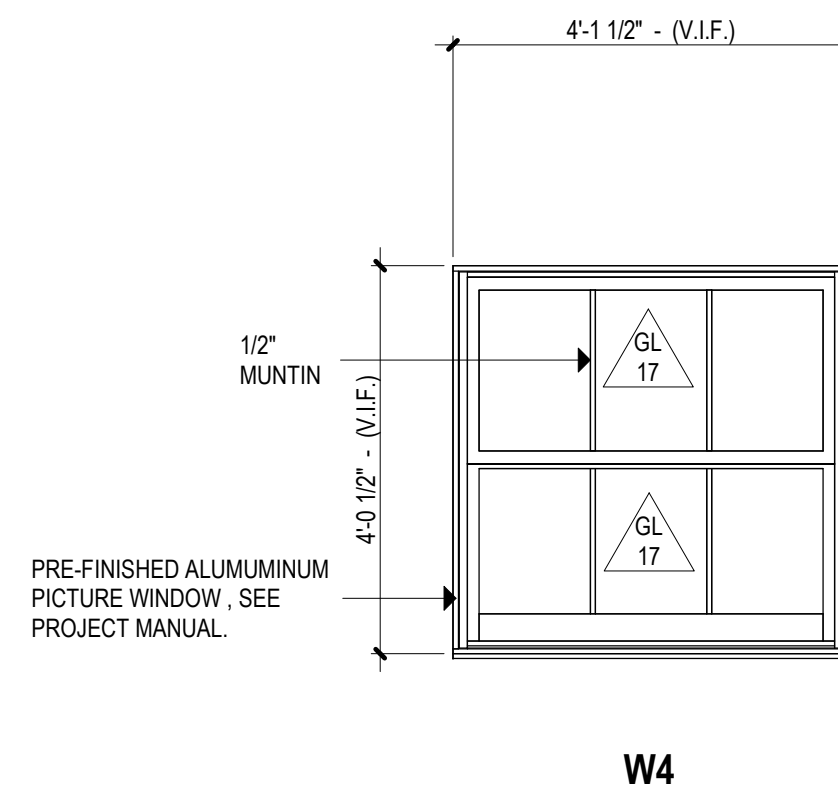
Drawing Number:

LP501

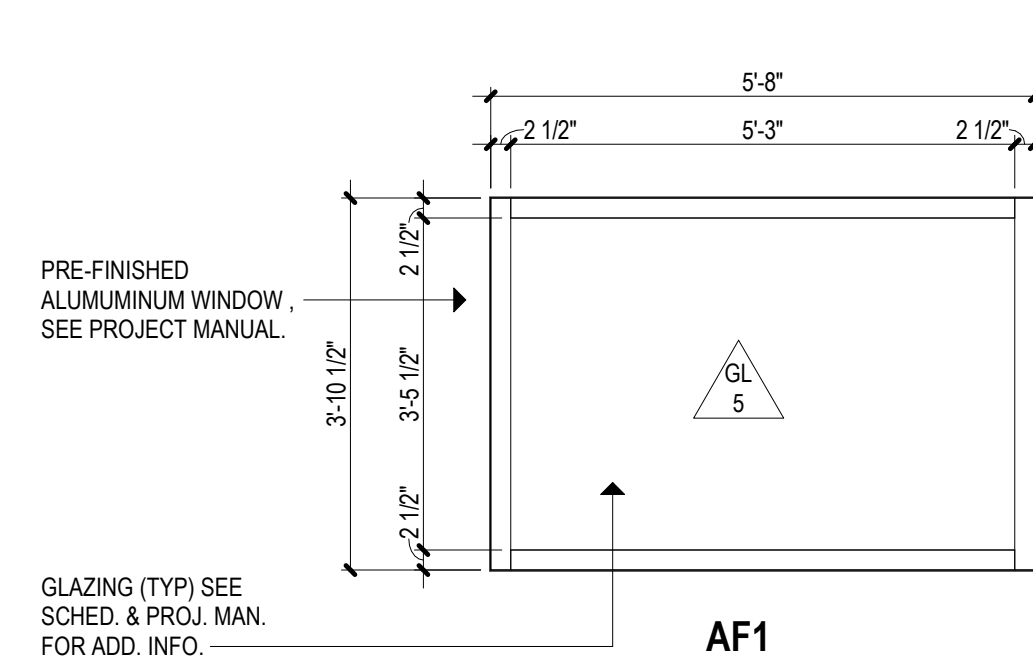
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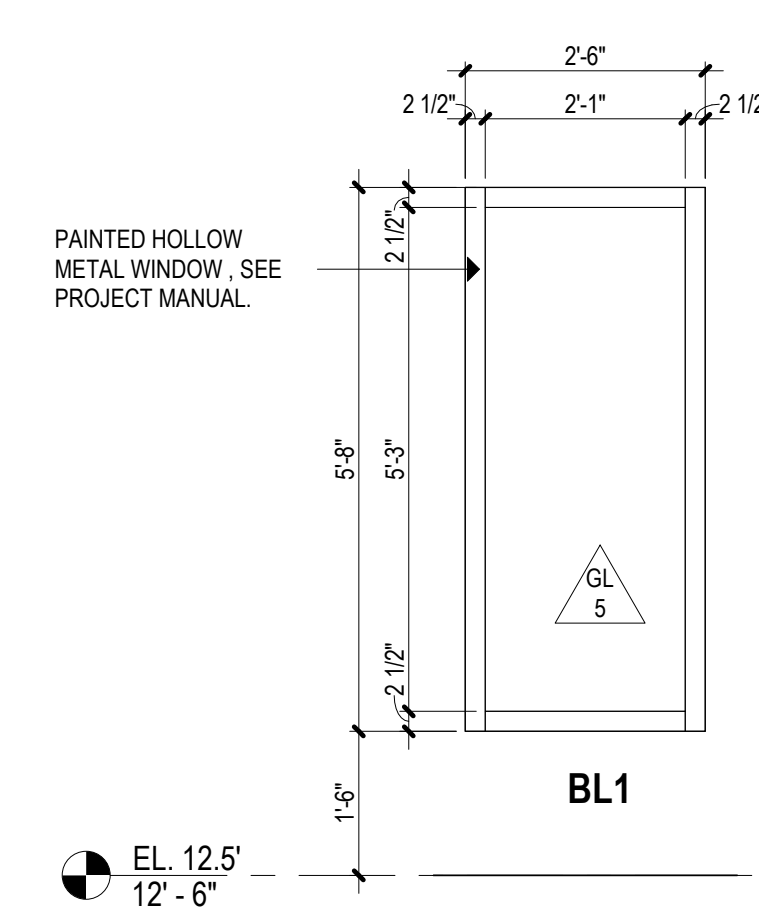
W1 W1 - ALUMINUM PICTURE WINDOW
1/2" = 1'-0"



W4 W4 - ALUMINUM WINDOW
1/2" = 1'-0"



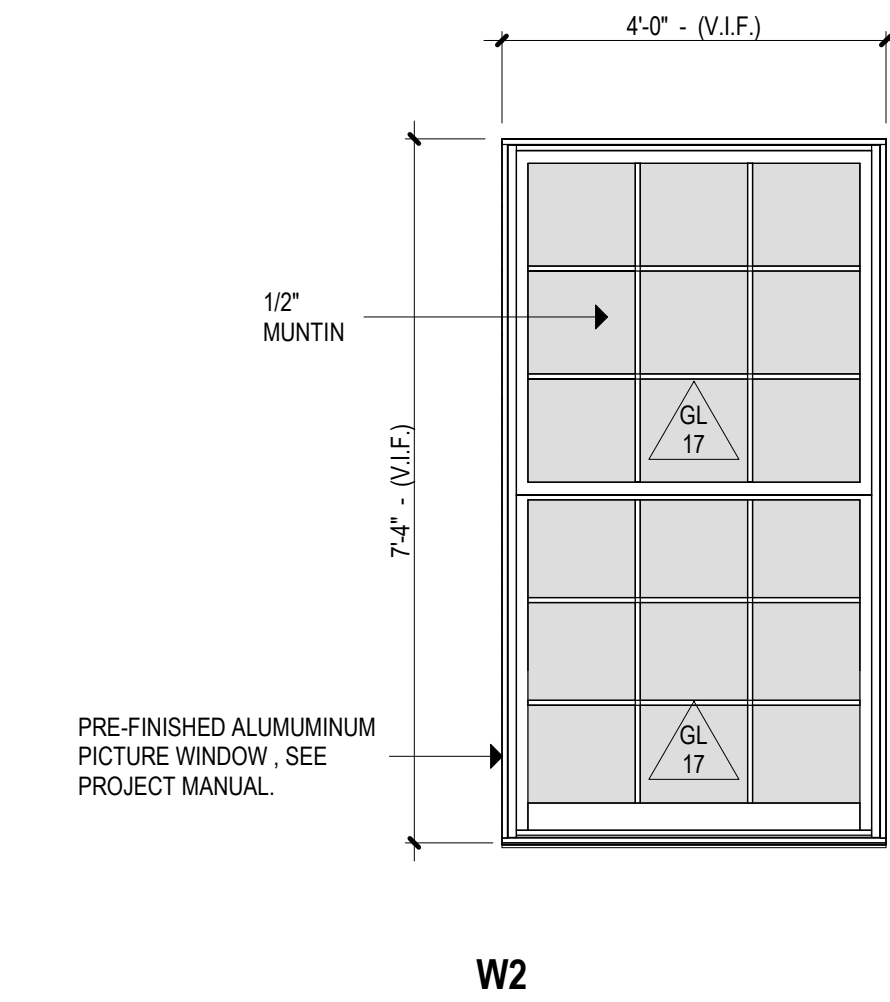
BL2 BL2 - HM BORROWED LITE
1/2" = 1'-0"



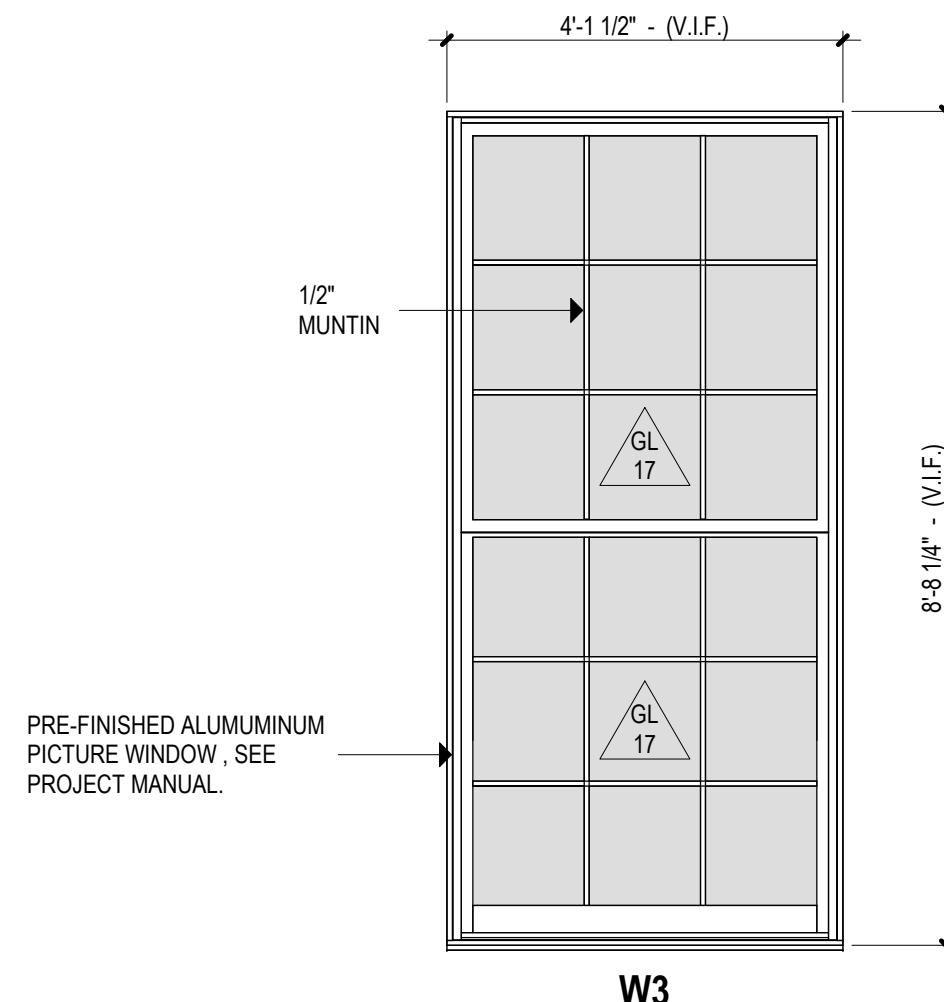
BL1 BL1 - HM BORROWED LITE
1/2" = 1'-0"

GLAZING TYPE SCHEDULE	
GL-0	FILM
GL-1	CLEAR
GL-2	CLEAR, TEMPERED
GL-3	CLEAR, TEMPERED, FROSTED
GL-4	CLEAR, TEMPERED, PATTERNED
GL-5	CLEAR, LAMINATED
GL-6	CLEAR, FIRE RATED
GL-7	CLEAR, BALLISTIC
GL-13	INSULATED, TINTED, TEMPERED
GL-17	INSULATED, TINTED, LAMINATED
GL-23	INSULATED, BLAST RESISTANT, TINTED
GL-28	INSULATED, TINTED, BALLISTIC

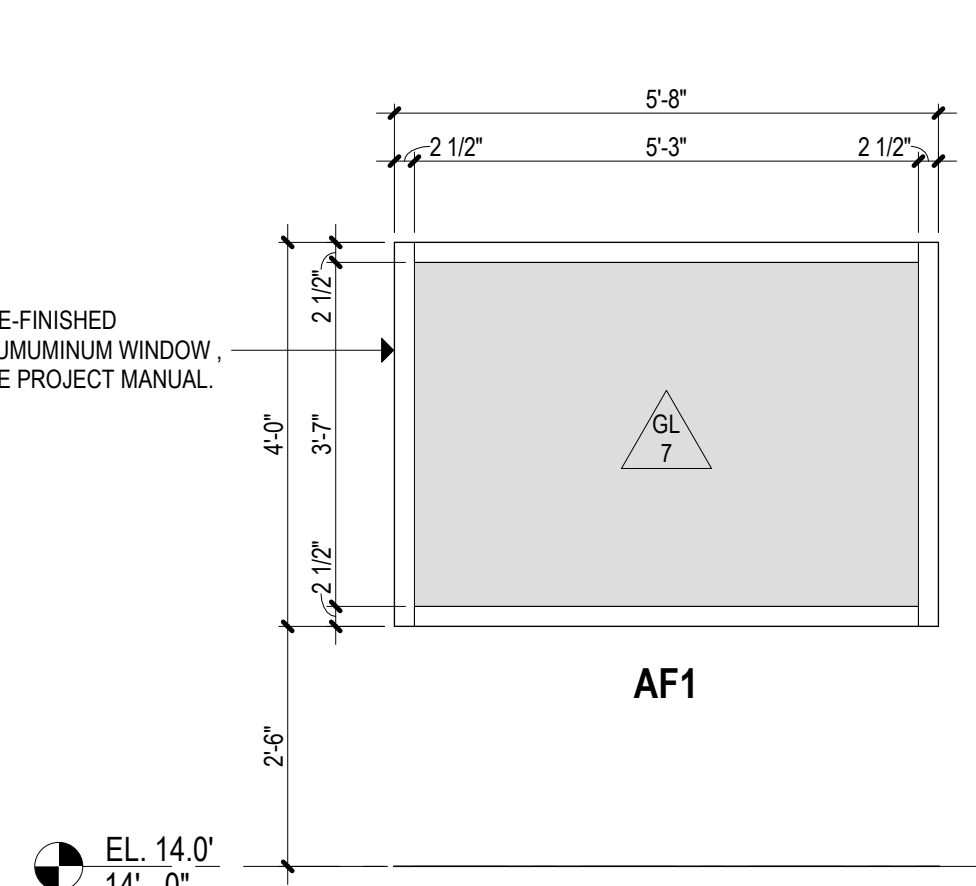
NOTES:
1. CURTAIN WALL DEPTH TO BE DELEGATED BY CURTAIN WALL MANUFACTURER. BASIS OF DESIGN IS A 2 1/2" X 7 1/2" SYSTEM.
2. DECORATIVE 1" MUNTINS (NON-DIVIDED LITES), WHERE INDICATED.



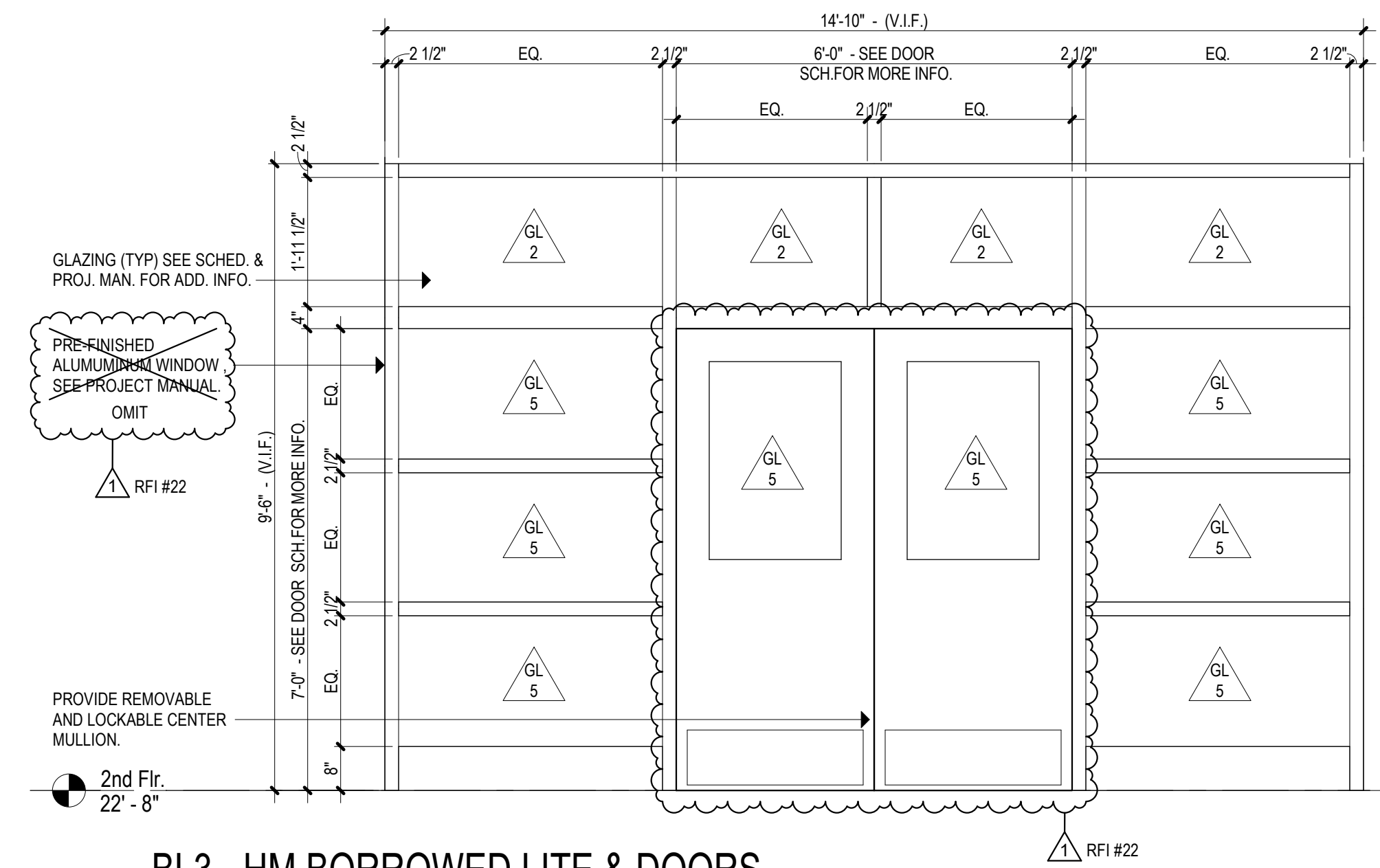
W2 W2 - ALUMINUM PICTURE WINDOW
1/2" = 1'-0"



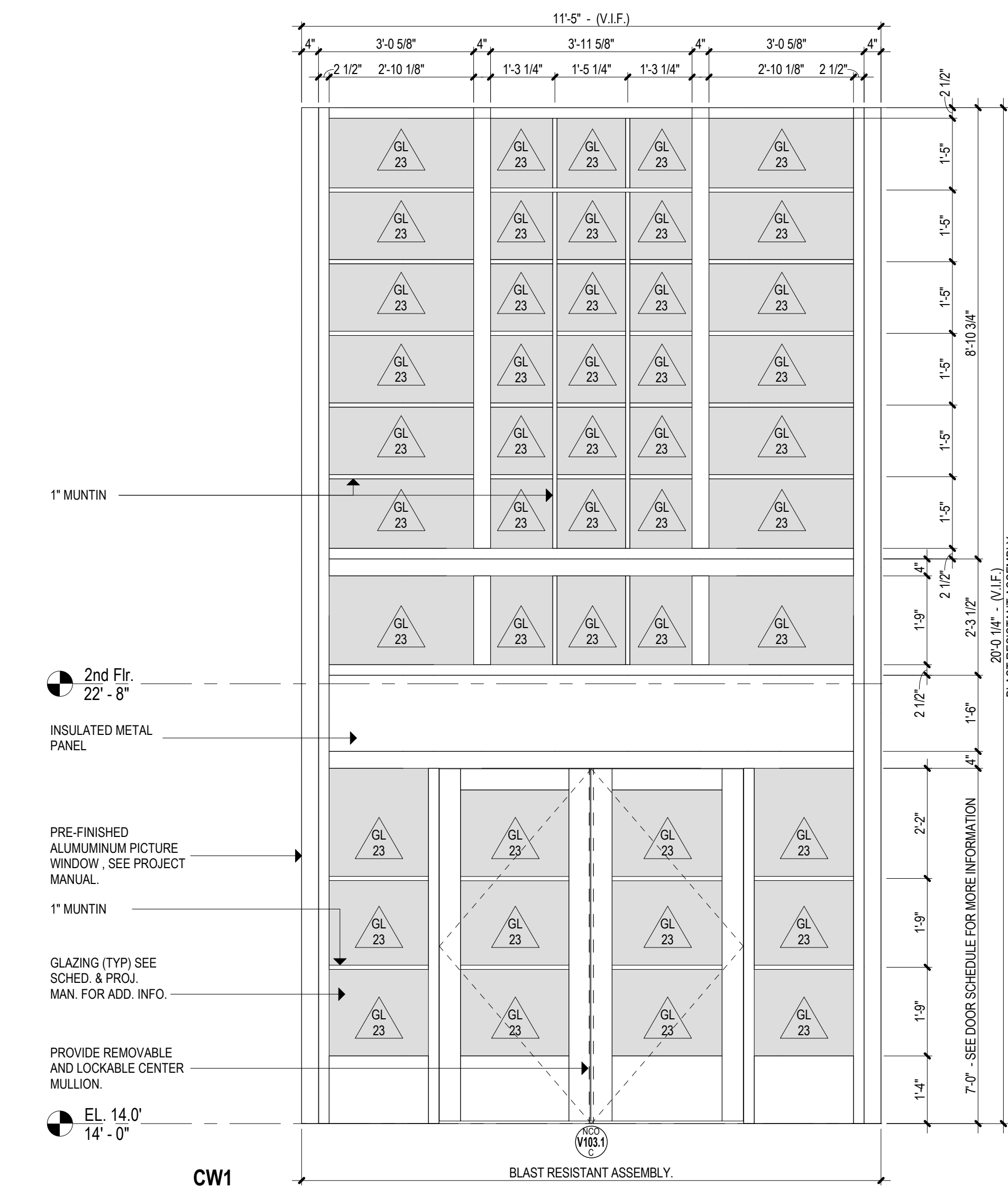
W3 W3 - ALUMINUM WINDOW
1/2" = 1'-0"



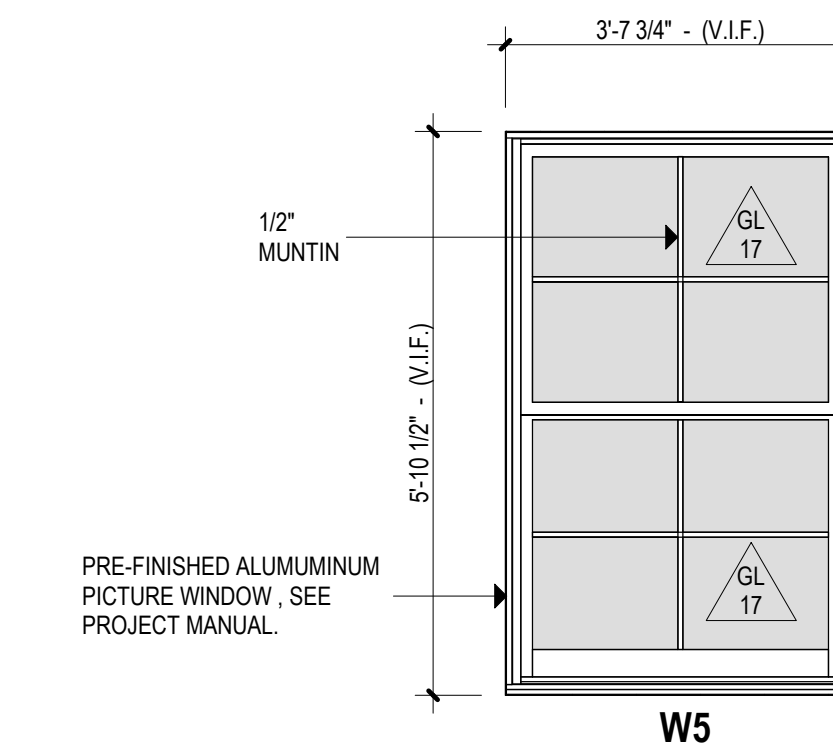
AF1 W1 - ALUM. INTERIOR STOREFRONT
1/2" = 1'-0"



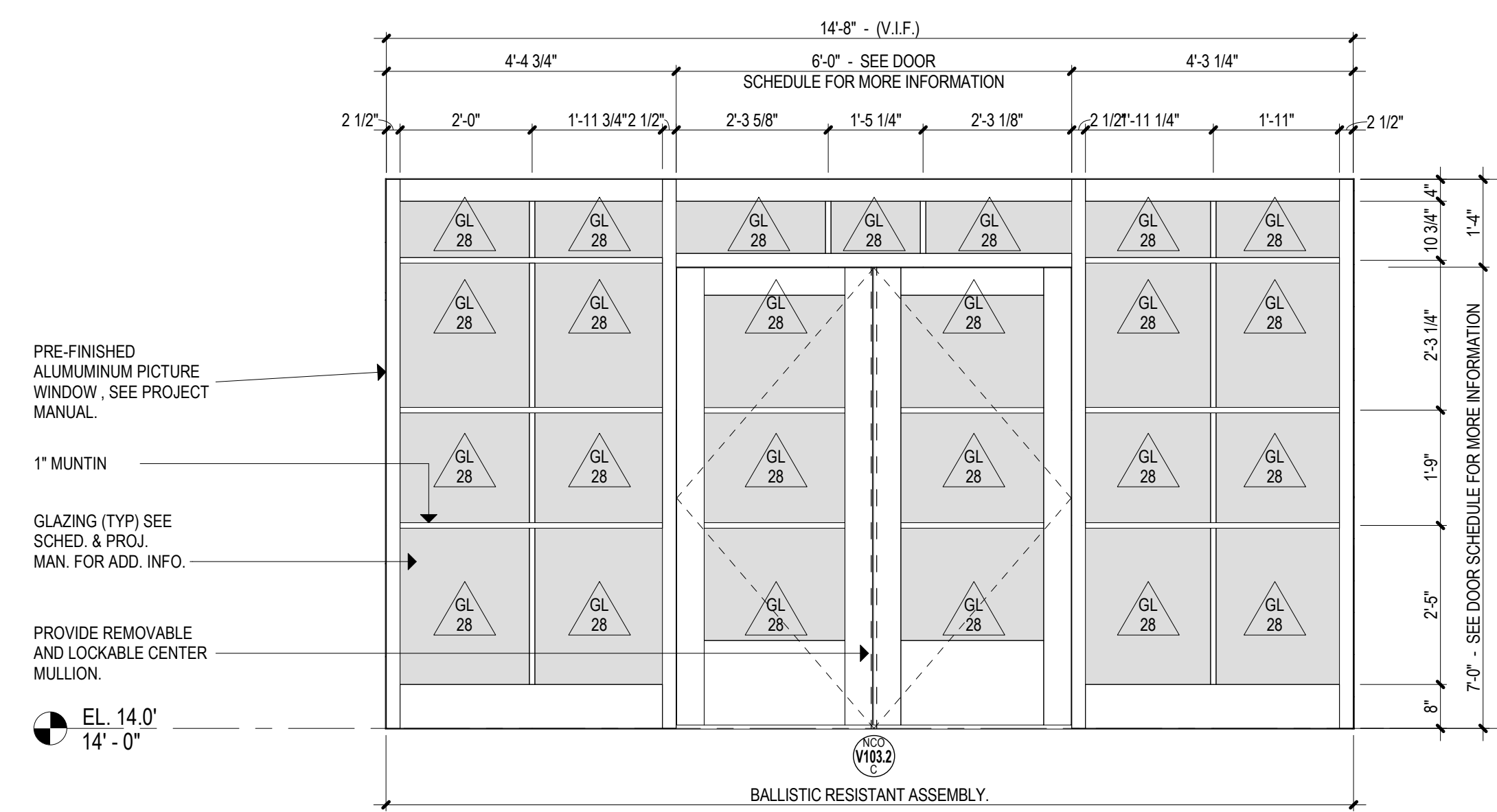
BL3 BL3 - HM BORROWED LITE & DOORS
1/2" = 1'-0"



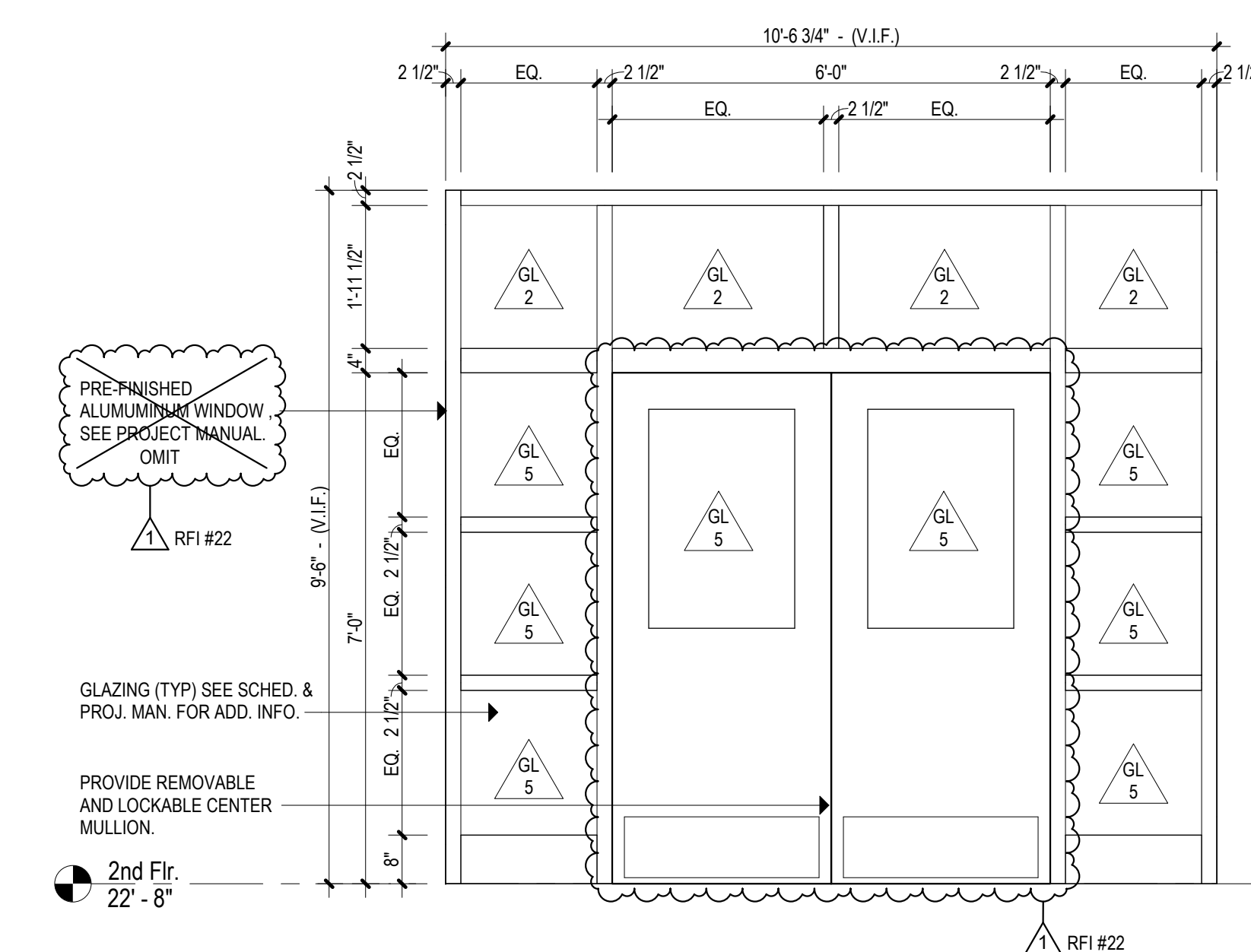
CW1 CW1 - EXTERIOR ALUMINUM CURTAINWALL
1/2" = 1'-0"



W5 W5 - ALUMINUM WINDOW
1/2" = 1'-0"



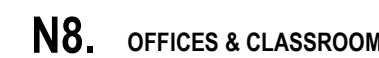
CW2 CW2 - INTERIOR ALUMINUM CURTAINWALL
1/2" = 1'-0"



BL4 BL4 - HM BORROWED LITE & DOORS
1/2" = 1'-0"



CW3 VESTIBULE CEILING #1062C
1/2" = 1'-0"

[illegible]

DOOR LEGEND	
ECK	EXISTING DOOR & NEW LEVER w/ NEW CORE & KEYING
ELK	EXISTING DOOR w/ NEW LEVER, CORE & KEYING
EDL	EXISTING DOOR w/ NEW LEVER
EXC	EXISTING DOOR & NEW LEVER w/ CORE, KEYING, CARD READER
EFCO	EXISTING DOOR & NEW LEVER w/ CORE, KEYING, CARD READER, DOOR OPERATOR
EX	EXISTING DOOR TO REMAIN - NO WORK
N	NEW DOOR w/ HARDWARE SET
NCR	NEW DOOR w/ HARDWARE SET & CARD READER
NCO	NEW DOOR w/ HARDWARE SET, CARD READER & DOOR OPERATOR
NO	NEW DOOR w/ HARDWARE SET & DOOR OPERATOR

GLAZING TYPE SCHEDULE	
GL-0	FILM
GL-1	CLEAR
GL-2	CLEAR, TEMPERED
GL-3	CLEAR, TEMPERED, FROSTED
GL-4	CLEAR, TEMPERED, PATTERNED
GL-5	CLEAR, LAMINATED
GL-6	CLEAR, FIRE RATED
GL-7	CLEAR, BALLISTIC
GL-13	INSULATED, TINTED, TEMPERED
GL-17	INSULATED, TINTED, LAMINATED
GL-23	INSULATED, BLAST RESISTANT, TINTED
GL-28	INSULATED, TINTED, BALLISTIC

GENERAL DOOR NOTES	DOOR SCHEDULE REMARKS (LAST COLUMN IN DOOR SCHEDULE)	
1. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION.	1. COORDINATE DOOR/SJ SIZE WITH CURTAIN WALL / STORE FRONT SYSTEM. SEE SCHEDULE ELEVATIONS AND CURTAIN WALL TYPES, INCLUDING BALLISTIC TYPE.	16. PROVIDE POWER OPERATOR AT ONE DOOR AND ACCESSIBLE PUSH PADDLES ON BOTH SIDES OF DOOR. COORDINATE OPERATION WITH CONTROLS AT MAIN OFFICE AND CARDIOFB READER AT EXTERIOR.
2. ALL NEW KICK PLATES SHALL BE 12" HIGH AND OFFSET 1" FROM EDGES OF DOOR UNLESS OTHERWISE NOTED. CENTERED AT BOTTOM OF DOOR.	2. PROVIDE PULL HANDLE/S HARDWARE ON EXTERIOR. OMIT PUSH PLATES.	17. PROVIDE WIRED DOOR CONTACTS TO MONITOR POSITION OF DOORS (FULLY CLOSED OR NOT).
3. ALL GLASS IN DOORS, SIDELIGHTS AND TRANSOMS SHALL BE SAFETY TYPE. SEE SCHEDULE FOR SPECIFIC TYPE AND THICKNESS. SEE ALSO PROJECT MANUAL.	3. PROVIDE REMOVABLE AND LOCKABLE CENTER MULLION.	18. INSTALL INDICATED SIGN ON ADJACENT SIDE WALL.
4. ALL EXTERIOR DOORS SHALL RECEIVE FULL WEATHER STRIPPING AND SIDES, TOP AND BOTTOM.	4. DOOR AND CURTAIN WALL SYSTEMS SHALL BE BLAST RESISTANT.	19. PROVIDE ELECTRONIC SYSTEM TO ALLOW DOOR/S TO BE REMOTELY LATCHED (LOCKED FROM EXTERIOR / PULL SIDE) FROM REMOTE LOCATION IN AN EMERGENCY LOCK-DOWN SITUATION. DISINAGGE HOLD-OPEN DEVICES WHERE PROVIDED.
5. PROVIDE CONTINUOUS HINGES.	5. PROVIDE ELECTRIC STRIKE. COORDINATE WITH CONTROLS AT MAIN OFFICE AND CARDIOFB READERS AT EXTERIOR. SEE ALSO ELECTRICAL, SCHEMATIC DRAWINGS AND PROJECT MANUAL.	20. PROVIDE WIRED ELECTRIC LATCHSET/HARDWARE WITH INTEGRATED CARDIOFB READER.
6. FOR ALL DOORS WITH FRAME TYPE DESIGNATION "ALUM." AND/OR C.W. / S.F. SEE STOREFRONT / CURTAIN WALL ELEVATIONS FOR HEAD, JAMBS AND GLAZING WITHIN FRAME.	7. ALL GLAZING, FRAMES, DOOR STYLES AND RAILS SHALL BE BALLISTIC TYPE. SEE ALSO PROJECT MANUAL.	21. SECTULION ROOM DOOR. PROVIDE FULL-LENGTH MAGNETIC LOCKS HOUSING AT LATCH SIDE. TWO ELECTRO-MAGNETIC LOCKS, PLATES AT DOOR MOUNTED WITH ENERGY ABSORBING SEX BOLTS. MAGNETIC LOCKS SHALL BE ACTIVATED BY PUSH BUTTON IN ANTE ROOM. MAGNETIC LOCKS SHALL DISINAGGE (ONCE THE PUSH BUTTON IS RELEASED. PROVIDE PADDING SYSTEM ON DOOR SIDE FACING THE SECTULION ROOM. CLOSER AND ARM ON ANTE ROOM SIDE. PULL ON ANTE ROOM SIDE. OMIT PUSH PLATE.
7. AT EXTERIOR DOUBLE DOORS PROVIDE ONLY ONE PULL HANDLE ON ONE LEAF.	8. PROVIDE SIGNS ON BOTH SIDES OF DOOR.	22. PROVIDE VACANCY INDICATOR.
8. PROVIDE APPLIED DOOR NUMBER DECAL AT ALL EXTERIOR DOORS AS INDICATED ON PLANS.	9. NEW FRAME AND DOOR THROUGH EXISTING MASONRY WALL. PROVIDE NEW OPENING. TEMPORARILY EXISTING WALL AS REQUIRED AND INSTALL PERMANENT LINTEL.	23. CARDIOFB READER ACCESS ON BOTH SIDES.
9. CLOSER ARMS SHALL NOT BE ON CORRIDOR SIDE OR ON EXTERIOR OF BUILDING.	10. NEW FRAME, DOOR AND HARDWARE IN EXISTING MASONRY OPENING. V.I.F. FOR EXACT MASONRY OPENING AFTER EXISTING FRAME AND DOOR ARE REMOVED.	24. REPLACE LOCKSET ON STAIR SIDE WITH KEYS LOCKABLE SET TO PREVENT INTRUSION FROM STAIR SIDE.
	11. INFILL JAMBS WITH MATCHING MASONRY TO REDUCE OPENING AS REQUIRED. TOOTH-IN MASONRY UNITS WITH EXISTING.	25. PROVIDE EXTENDED CONTINUOUS HINGES.
	12. EXISTING HOLLOW METAL DOOR AND FRAME. PRIME AND PAINT.	
	13. UNEVEN LEAF DOORS AT EXIT STAIR. LARGE LEAF SHALL BE 3'-8" WIDE. MAGNETIC HOLD-OPEN DEVICE AT LARGE LEAF ONLY.	
	14. UNEVEN LEAF DOORS. LARGE LEAF SHALL BE 3'-0".	
	15. OMIT PULL HANDLES ON EXTERIOR SIDE.	

[illegible][illegible][illegible]

DOOR LEGEND		RF1 #22
E	EXISTING DOOR w/ NEW LEVER w/ NEW CORE & KEYING	
EK	EXISTING DOOR w/ NEW LEVER, CORE & KEYING	
EL	EXISTING DOOR w/ NEW LEVER	
EX	EXISTING DOOR w/ NEW LEVER w/ CORE, KEYING, CARD READER	
ECD	EXISTING DOOR w/ NEW LEVER w/ CORE, KEYING, CARD READER, DOOR OPERATOR	
EX	EXISTING DOOR TO REMAIN - NO WORK	
N	NEW DOOR w/ HARDWARE SET	
NCR	NEW DOOR w/ HARDWARE SET, CARD READER	
NC	NEW DOOR w/ HARDWARE SET, CARD READER & DOOR OPERATOR	
NO	NEW DOOR w/ HARDWARE SET & DOOR OPERATOR	

GENERAL DOOR NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION.
2. ALL NEW KICK PLATES SHALL BE 12" HIGH AND OFFSET 1" FROM EXISTING DOOR UNLESS OTHERWISE NOTED. CENTERED AT BOTTOM OF DOOR.
3. ALL GLASS IN DOORS, SIDELIGHTS AND TRANSOMS SHALL BE SAFETY TYPE. SEE SCHEDULE FOR SPECIFIC TYPE AND THICKNESS. SEE ALSO PROJECT MANUAL.
4. ALL EXTERIOR DOORS SHALL RECEIVE FULL WEATHER STRIPPING AND SIDES, TOP AND BOTTOM.
5. PROVIDE CONTINUOUS HINGES AT ALL EXTERIOR DOORS AND OTHER LOCATIONS AS NEEDED.
6. FOR ALL DOORS WITH FRAME TYPE DESIGNATION "A" (U) AND/OR

DOOR SCHEDULE REMARKS (LAST COLUMN IN DOOR SCHEDULE)	
1. COORDINATE DOOR(S) SIZE WITH CURTAIN WALL / STORE FRONT SYSTEM. SEE ELEVATIONS AND CURTAIN WALL SYSTEMS INCLUDING BALLISTIC TYPE.	16. PROVIDE POWER OPERATOR AT ONE DOOR AND ACCESSIBLE PUSH PADDLES ON BOTH SIDES OF DOOR. COORDINATE OPERATION WITH CONTROLS AT MAIN OFFICE AND CARDIOF READER AT EXTERIOR.
2. PROVIDE PULL HANDLE'S HARDWARE ON EXTERIOR. OMIT PULL PLATES.	17. PROVIDE WIRED DOOR CONTACTS TO MONITOR POSITION OF DOORS / FULLY CLOSED OR NOT.
3. PROVIDE REMOVABLE AND LOCKABLE CENTER MULLION.	18. INSTALL INDICATED SIGN ON ADJACENT SIDE WALL.
4. DOOR AND CURTAIN WALL SYSTEMS SHALL BE BLAST RESISTANT.	19. PROVIDE ELECTRONIC SYSTEM TO ALLOW DOORS TO BE REMOTELY LOCKED (LOCKED FROM EXTERIOR / PULL SIDE) FROM REMOTE LOCATION IN AN EMERGENCY LOCK-DOWN SITUATION. DISINTEGRATE HOLD-OPEN DEVICES WHERE PROVIDED.
5. PROVIDE CONTINUOUS HINGES.	20. PROVIDE WIRED ELECTRIC LATCHES/HARDWARE WITH INTEGRATED CARDIOF READER.
6. PROVIDE ELECTRIC STRIKE. COORDINATE WITH CONTROLS AT MAIN OFFICE AND CARDIOF READER AT EXTERIOR. SEE ALSO ELECTRICAL, SECURITY DRAWINGS AND PROJECT MANUAL.	21. SECTION ROOM DOOR. PROVIDE FULL-LENGTH MAGNETIC LOCKS HOUSING AT LATCH SIDE. TWO ELECTRO-MAGNETIC LOCKS. PLATES AT DOOR MOUNTED WITH ENERGY ABSORBING SEX BOLTS. MAGNETIC LOCKS SHALL BE ACTIVATED BY PUSH BUTTON IN ANTE ROOM. MAGNETIC LOCKS SHALL DISINTEGRATE ONCE THE PUSH BUTTON IS RELEASED. PROVIDE PADDING SYSTEM ON DOOR SIDE FACING THE SECTION ROOM. CLOSER AND ARM ON ANTE ROOM SIDE. PULL ON ANTE ROOM SIDE. OMIT PUSH PLATE.
7. ALL GLAZING FRAMES, DOOR STYLES AND RAILS SHALL BE BALLISTIC TYPE. SEE ALSO PROJECT MANUAL.	22. PROVIDE VACANCY INDICATOR.
8. PROVIDE SIGNS ON BOTH SIDES OF DOOR.	23. CARDIOF READER ACCESS ON BOTH SIDES.
9. NEW FRAME, DOOR AND THROUG EXISTING MASONRY WALL. PROVIDE NEW OPENING. TEMPORARILY SHORE WALL AS REQUIRED AND INSTALL PERMANENT LULL.	24. REPLACE LOCKSET ON STAIR SIDE WITH KEYED LOCKABLE SET TO PREVENT INTRUSION FROM STAIR SIDE.
10. NEW FRAME, DOOR AND HARDWARE IN EXISTING MASONRY OPENING. V.I.F. FOR EXACT MASONRY OPENING AFTER EXISTING FRAME AND DOOR ARE REMOVED.	25. PROVIDE EXTENDED CONTINUOUS HINGES.
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12. EXISTING HOLLOW METAL DOOR AND FRAME. PRIME AND PAINT.	
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GLAZING TYPE SCHEDULE	
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12" = 1'-0"
Drawn By:
JM
Project Number:
22-382

A

ABBREVIATIONS					
(NOT ALL SYMBOLS ARE USED)					
(###)	CFM	FA	FACE AREA	NO	NORMALLY OPEN
ABV	ABOVE	FBO	FURNISHED BY OTHERS	NTS	NOT TO SCALE
AC	AIR COMPRESSOR	INST	INSTALLED BY HVAC SUBCONTRACTOR	OA	OUTSIDE AIR
ACU4	AIR CONDITIONING UNIT	FC	FORWARD CURVE	OAT	OUTDOOR AIR TEMPERATURE
AD	ACCESS DOOR	FCU	FAN COIL UNIT	OA	OUTDOOR AIR INTAKE
AF	AIRFOIL	FD	FIRE DAMPER WITH ACCESS DOOR	OBD	OPPOSED BLADE DAMPER
AFC	ADJUSTABLE FREQUENCY CONTROLLER	FF	FINAL FILTER	OD	OUTSIDE DIMENSION
AFF	ABOVE FINISHED FLOOR	FBO	FURNISHED AND INSTALLED BY OTHERS	O.E.T.D.	OPEN END TRANSFER DUCT
AFMS	AIR FLOW MEASURING STATION	FIN FL	FINISH FLOOR	P4	PUMP
AHU4	AIR HANDLING UNIT	FL	FLOOR	PB	PUSH BUTTON
AL	ACOUSTIC LINING	FLA	FULL LOAD AMPERES	PBD	PARALLEL BLADE DAMPER
ALD	AUTOMATIC LOUVER DAMPER	FLEX	FLEXIBLE	PD	PRESSURE DROP
APD	AIR PRESSURE DROP	PPF	FINS PER FOOT	PF	PREFILTER
AUTO	AUTOMATIC	FPV	FAN POWERED VAV BOX	PH	PHASE
B4	BOILER	FT	FEET	PHC	PREHEAT COIL
BC	BACKWARD CURVED	F.T.	FLOAT & THERMOSTATIC TRAP	PPH	POUND PER HOUR
BD	BELT DRIVE	FTR	FIN TUBE RADIATION	PRV	PRESSURE REDUCING VALVE
BMS	BUILDING MANAGEMENT & CONTROL SYSTEM	FV	FACE VELOCITY	PSI	POUND PER SQUARE INCH
IBT	INVERTED BUCKET TRAP	GC	GENERAL CONTRACTOR	RA	RETURN AIR
BTU	BRITISH THERMAL UNIT	GH	GRAVITY INTAKE HOOD	RA4	RETURN AIR FAN
C4	CHILLER	GPH	GALLONS PER HOUR	RAT	RETURN AIR TEMPERATURE
CAP	CAPACITY	GPM	GALLONS PER MINUTE	REG	REGISTER
CB#	CHILLED BEAM	GWS	GEOTHERMAL WATER LOOP SUPPLY	RH	RELATIVE HUMIDITY
CC#	COOLING COIL	GWR	GEOTHERMAL WATER LOOP RETURN	RHC	REHEAT COIL
CD	CEILING DIFFUSER	HC	HEATING/COOLING	RM	ROOM
CFM	CUBIC FEET PER MINUTE	H#	HUMIDIFIER	RP	RADIANT PANEL
CG	CEILING GRILLE	H-04	HAND-OFF-AUTOMATIC	RPM	REVOLUTIONS PER MINUTE
CLG	CEILING	HC4	HEATING COIL	RS	RISE
CONV4	HOT WATER CONVECTOR	ld	FEET OF HEAD	RTU4	ROOFTOP AIR CONDITIONING UNIT
CP	CONDENSATE RECEIVER/PUMPING SYSTEM	HP	HORSEPOWER	SA	SUPPLY AIR
CR	CEILING REGISTER	HTG	HEATING	SA4	SUPPLY AIR FAN
CT4	COOLING TOWER	HTR	HEATER	SAT	SUPPLY AIR TEMPERATURE
CTD	CEILING TRANSFER DUCT	HV4	HEATING AND VENTILATING UNIT	SB	SECURITY BARS
CU4	CABINET UNIT/HEATER HOT WATER	HVAC	HEATING, VENTILATING & AIR CONDITIONING	VSC	VERTICAL SPLIT CASE
CV	CONTROL VALVE	HV	AIR CONDITIONING	HSC	HORIZONTAL SPLIT CASE
CW	COLD WATER	HX4	HEAT EXCHANGER CONVERTOR	SD	SMOKE DAMPER
D4T	DRIP AND TRAP	ID	INSIDE DIMENSION	SG	SUPPLY GRILLE
dB	DECIBELS	IN	INCHES	SP	STATIC PRESSURE
DB	DRY BULB	IV	INLET GUIDE VANES	SQ FT	SQUARE FOOT (AREA)
DD	DIRECT DRIVE	IL	IN LINE	ST	SINGLE POLE SWITCH
DDC	DIRECT DIGITAL CONTROL	KW	KILOWATT	SWR	WITHERMAL OVERLOAD
DIFF	DIFFUSER	KWH	KILOWATT HOUR	SWR	SIDE WALL REGISTER
DL	DOOR LOUVER	LAT	LEAVING AIR TEMPERATURE	TSTAT	THERMOSTAT
DN	DOWN	LD	LINEAR DIFFUSER	TD	TEMPERATURE DIFFERENCE
DOAS	DEDICATED OUTDOOR AIR SYSTEM	LVN	LINEAR	TEMP	TEMPERATURE
DP	DEWPOINT TEMPERATURE	LPA	LOCKED ROTOR AMPERES	TG	AIR TRANSFER GRILLE
DR	DROP	LPR	LOW PRESSURE RETURN	TOT	TOTAL
DTS	DUAL TEMPERATURE SUPPLY	LPS	LOW PRESSURE SUPPLY	TN-HR	TON HOUR REFRIGERATION
DTR	DUAL TEMPERATURE RETURN	LVS	LEAVING	TRD	TRANSFER DUCT
DX	DIRECT EXPANSION	LVT	LEAVING WATER TEMPERATURE	TT	THERMOSTATIC TRAP
EF4	EXHAUST FAN	MAN	MANUAL	TYP	TYPICAL
EAT	ENTERING AIR TEMPERATURE	MAT	MIXED AIR TEMPERATURE	UC	UNDERCUT DOOR
EER	ENERGY EFFICIENCY RATIO	MAX	MAXIMUM	UA4	UNIT HEATER HOT WATER
EG	EXHAUST GRILLE	MBH	1000 BTUS	UV4	UNIT VENTILATOR
EH4	ELECTRIC HEATING COIL	MCA	MINIMUM CIRCUIT AMPACITY	VAV4	VARIABLE AIR VOLUME
ENT	ENTERING	MD	MOTORIZED DAMPER	VD	VOLUME DAMPER
HEPA	HIGH EFFICIENCY PARTICULATE FILTER	MER	MECHANICAL EQUIPMENT ROOM	VE	VOLUME EXTRACTOR
ER	EXHAUST REGISTER	MEZZ	MEZZANINE	VFD	VARIABLE FREQUENCY DRIVE
ES	END SUCTION	MFS	MAXIMUM FUSE SIZE	VI	VIBRATION ISOLATOR
ESP	EXTERNAL STATIC PRESSURE	MIN	MINIMUM	VSF	VARIABLE SPEED FAN SWITCH
ET4	EXPANSION TANK	MOT	MOTOR	WI	WITH
EU4	ELECTRIC UNIT HEATER	MJA	MAKE-UP AIR	WB	WET BULB
EWT	ENTERING WATER TEMPERATURE	MV	MOTORIZED VALVE	WFM	WATER FLOW MEASURING STATION
EXT	EXTERNAL	NC	NORMALLY CLOSED	WMS	WIRE MESH SCREEN
EX	EXISTING	NC	NOISE CRITERIA	WPD	WATER PRESSURE DROP
EXH	EXHAUST	NFA	NET FREE AREA	WT	WEIGHT (LBS)
F	FEET	NC	NOT IN THIS CONTRACT	ZD	ZONE DAMPER
F4B	FACE & BYPASS DAMPER				

SYMBOL LEGEND					
(NOT ALL SYMBOLS ARE USED)					
	PRESSURE/TEMPERATURE PORT		PIPE UNION		MECHANICAL NOTE REFERENCE. NUMBER INDICATES NOTE.
	TEMPERATURE GAUGE/TEMPERATURE INDICATOR		AIR VENT, AUTOMATIC		CUBIC FEET PER MINUTE
	PRESSURE GAUGE		AIR VENT, MANUAL		DUCT STATIC PRESSURE
	BUTTERFLY VALVE		PUMP OR FAN		VOLUME DAMPER
	SHUT-OFF VALVE		STRAINER		BACKDRAFT DAMPER
	ANGLE GATE VALVE		STRAINER, BLOW OFF		DEMOLITION
	GLOBE VALVE		1\"/>		MOTORIZED DAMPER
	BALL OR BUTTERFLY VALVE		RETURN GRILLE		SUPPLY OR OUTSIDE AIR DUCT UP OR CSD
	ANGLE GLOBE VALVE		THERMOSTAT OR SPACE TEMPERATURE SENSOR		SUPPLY OR OUTSIDE AIR DUCT DOWN
	TWO WAY MOTORIZED CONTROL VALVE		PRESSURE SENSOR		RETURN OR EXHAUST DUCT UP OR CSD
	THREE WAY MOTORIZED CONTROL VALVE		DIRECTION OF FLOW		RETURN OR EXHAUST DUCT DOWN
	CHECK VALVE		METER		FLEXIBLE CONNECTION
	OS & Y		DIA. OR Ø		DUCT TRANSITION
	SAFETY RELIEF VALVE (PRESS. & TEMP.)		THERMOMETER		RECTANGULAR TO ROUND TRANSITION
	DRAIN VALVE W/ HOSE COUPLING W/ICAP		PIPE TEE, OUTLET UP		DUCT WORK, DIRECTION OF FLOW
	CAP		PIPE ELBOW, TURNED UP		POSITIVE PRESSURE DUCT
	PIPE CONNECTION BOTTOM		PIPE TEE, OUTLET DOWN		NEGATIVE PRESSURE DUCT
	PIPE CONNECTION TOP		HOT WATER SUPPLY		CHANGE OF ELEVATION, RISE (R) DROP (D)
	PIPE COUPLING (JOINT)		HOT WATER RETURN		LINED DUCT WORK
	ELBOW, 90°		CONDENSER WATER SUPPLY		SINGLE LINE LINED DUCT WORK
	PIPE ELBOW, TURNED DOWN		CONDENSER WATER RETURN		DIRECTION OF SUPPLY OR OUTSIDE AIR
	PIPE TEE		POINT OF CONNECTION		DIRECTION OF RETURN OR EXHAUST AIR
	AIR OUTLET TYPE		RETURN OR EXHAUST DUCT UP		AIR TERMINAL UNIT
	HUMIDISTAT/HUMIDITY SENSOR		SUPPLY OR OUTSIDE AIR DUCT UP		DUCT SMOKE DETECTOR
	DUCT MOUNTED HUMIDITY SENSOR		SMOKE DAMPER		FIRE DAMPER WITH ACCESS DOOR AS REQUIRED
	DUCT MOUNTED CARBON DIOXIDE SENSOR		COMBINATION FIRE AND SMOKE DAMPER		DUCT ACCESS DOOR
	HOT WATER SUPPLY		45°F CHILLED WATER SYSTEM SUPPLY		57°F CHILLED WATER SYSTEM SUPPLY
	HOT WATER RETURN		45°F CHILLED WATER SYSTEM RETURN		57°F CHILLED WATER SYSTEM RETURN
	PIPE ANCHOR		PIPE GUIDE		FLEXIBLE DUCT WORK

GENERAL

- THE INTENT OF THESE CONTRACT DOCUMENTS IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE AND FULLY FUNCTIONING MECHANICAL SYSTEMS. THESE MECHANICAL SYSTEMS INCLUDE HVAC AND ALL ASSOCIATED SPECIAL SYSTEMS. ALL SYSTEMS SHALL BE COMPLETED IN ALL RESPECTS, OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL AND ELECTRICAL INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID.
- ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO FORM A TOTAL DESIGN PACKAGE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.
- ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES FOR SEISMIC RESTRAINT AS REQUIRED BY CODE.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- ALL EQUIPMENT, MATERIALS AND RELATED SYSTEM COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT, BUILDING ELEMENTS, TREES SHRUBS, ETC AND MATERIALS DAMAGED DURING CONSTRUCTION.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF LIGHT FIXTURES AND MOUNTING HEIGHTS OF EQUIPMENT, INCLUSIVE OF RECEPTACLES, SWITCHES, THERMOSTATS, ETC. ALL SUCH EQUIPMENT AND COLORS SHALL BE COORDINATED WITH THE ARCHITECT. CONTACT ARCHITECT FOR CLARIFICATION OF MOUNTING REQUIREMENTS, IF INFORMATION IS NOT CONTAINED IN THE DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES, ORDINANCES, AND REGULATORY AGENCIES HAVING JURISDICTION.
- ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. THESE SHALL BE COORDINATED WITH THE ARCHITECT AND FIRE-RATED AS REQUIRED FOR THE ASSEMBLY BEING PENETRATED.
- WHEN CONFLICTS OCCUR BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEMS.
- CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.
- CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH FIRESTOPPING SEALANT WHERE REQUIRED.
- PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
- LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP/DOWN STREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS AND OTHER CONCEALED MECHANICAL EQUIPMENT AND DEVICES.
- ALL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- INSTALL COMPLETE, FULLY OPERATIONAL SYSTEMS. PROVIDE ALL COMPONENTS, DEVICES, CONTROLS, RELAYS, TRANSFORMERS, ETC., WHETHER INDICATED OR NOT, FOR COMPLETE SYSTEMS AS INTENDED BY THE CONSTRUCTION DOCUMENTS.
- ALL NEW EQUIPMENT SPECIFIED IN THE SCHEDULES SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.
- CONTRACTOR SHALL PROVIDE ALL CUTTING OF OPENINGS AND FIRESTOPPING AS REQUIRED THROUGH ALL WALLS AND FLOORS.
- BOTH SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED.
- CONTROL SEQUENCES SHALL FULLY IMPLEMENT ED AND BE IN ACCORDANCE WITH ASHRAE GUIDELINE 55.
- CONTRACTOR SHALL FURNISH AND INSTALL 3/4\"/>

RENOVATION

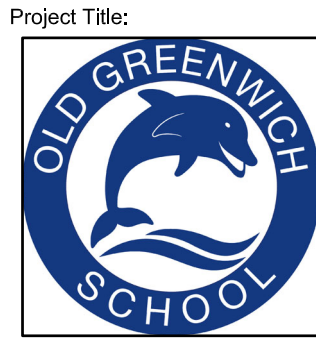
- THIS PROJECT IS A RENOVATION OF AN EXISTING FACILITY. IT IS THE INTENT OF THE DEMOLITION DRAWINGS TO LEAVE ALL MATERIALS OUTSIDE THE LIMITS OF THIS CONTRACT IN EXISTING OPERATING CONDITION.
- BEFORE SUBMITTING THEIR BID THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH THE PROJECT IS TO BE COMPLETED.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS.
- IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY PIECE OF EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING USED SHALL BE REMOVED INCLUDING ALL ASSOCIATED HANGARS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES AND CONTROLS BACK TO THE POINT OF ORIGIN.
- NO EQUIPMENT, PIPING OR CONDUIT SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED.
- PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT AND MATERIALS IN COMPLIANCE WITH CODES AND REGULATIONS.
- RELOCATE EXISTING EQUIPMENT, PIPING, WIRING AND RELATED SYSTEMS TO REMAIN AS REQUIRED FOR CONSTRUCTION. EXISTING FEEDER/CONDUIT AND PROVIDE RECONNECTIONS FOR SYSTEM TO BE FULLY OPERATIONAL. ALL RELOCATED EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION.
- PROVIDE TEMPORARY CONNECTIONS AND SYSTEM MODIFICATIONS AS REQUIRED FOR CONSTRUCTION.
- ALL EXISTING EQUIPMENT, DIFFUSERS, FIXTURES AND DEVICES ASSOCIATED WITH MECHANICAL AND/OR ELECTRICAL ON WALLS AND CEILINGS TO BE DEMOLISHED SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED. FIELD VERIFY FOR EXACT LOCATIONS AND QUANTITY OF ITEMS BEING REMOVED. COORDINATE WITH ARCHITECTURAL PLANS FOR SCOPE AREA OF DEMOLITION AND CONSTRUCTION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING, REPAIRING, CAPPING, ETC. PER DEMOLITION AND CONSTRUCTION DRAWINGS AND SPECIFICATIONS.
- REBALANCE EXISTING AIR AND WATER SYSTEMS ASSOCIATED WITH RENOVATIONS, INCLUDING ALL RENOVATED AREAS AND ALL AREAS AFFECTED BY SYSTEM MODIFICATIONS.
- REPLACE ALL INSULATION REMOVED AS PART OF MECHANICAL INSTALLATION OR MODIFICATION OF DUCTWORK, REGISTERS, GRILLES, DIFFUSERS, VALVES, COILS, FITTINGS AND PIPING. REPLACE INSULATION PER CONTRACTOR DOCUMENTS AND ENERGY CODE.
- CONTRACTOR SHALL TEMPORARY REMOVE ALL CEILING RADIANT PANELS TO ALLOW NEW CEILING INSTALLATION AND THEN RE-INSTALL CEILING RADIATION PANELS AS REQUIRED. CONTRACTOR SHALL REMOVE AND RECONNECT EXISTING PIPING, CONTROLS, VALVES, SUPPORTS, ETC AS REQUIRED.

PIPING NOTES

- PIPING LAYOUTS AS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS AS REQUIRED FOR COORDINATION WITH BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES.
- UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.
- SEISMICALLY RESTRAIN ALL PIPING AS REQUIRED PER CODE. CONTRACTOR SHALL OBTAIN SERVICES OF REGISTERED PROFESSIONAL ENGINEER TO PROVIDE ANALYSIS AND CALCULATIONS IN DETERMINING PIPING TO BE RESTRAINED.
- CONTRACTOR SHALL ENGAGE SERVICES OF PROFESSIONAL ENGINEER WITH EXPERTISE IN SEISMIC, VIBRATION AND ISOLATION CONTROLS. ENGINEER SHALL DETERMINE ALL LOCATIONS, TYPES AND REQUIREMENTS OF SEISMIC CONTROLS, PIPING EXPANSION AND VIBRATION CONTROLS.
- INSULATE ALL PIPING INCLUDED BUT NOT LIMITED TO HOT WATER SUPPLY AND RETURN, PER ENERGY CODE.
- CONTRACTOR SHALL PROVIDE ALL CORE DRILLING AND FIRESTOPPING AS REQUIRED THROUGH ALL WALLS AND FLOORS.

PHASING NOTES

- WORK SHALL BE PHASED TO ALLOW OWNER TO CONTINUE BUILDING OPERATIONS DURING THE CONSTRUCTION PERIOD. COORDINATE WORK WITH OWNER AND GENERAL CONTRACTOR TO ALLOW SUFFICIENT TIME TO RELOCATE OPERATIONS WITHIN THE BUILDING PRIOR TO COMMENCING WORK IN AREAS AFFECTED BY DEMOLITION OR NEW CONSTRUCTION.
- WORK REQUIRING INTERRUPTION OF ESSENTIAL BUILDING SERVICES SHALL BE PERFORMED DURING UNOCCUPIED PERIODS (AFTER BUSINESS HOURS). ESSENTIAL SERVICES SHALL INCLUDE BUT NOT BE LIMITED TO VENTILATION, WATER AND SEWER SERVICE, POWER, TELECOMMUNICATIONS, HEATING AND AIR CONDITIONING. SHALL BE CONSIDERED TO BE ESSENTIAL WHEN CONDITIONS WILL CAUSE TEMPERATURES IN THE BUILDING TO FALL BELOW 68°F OR EXCEED 78°F.



ADDITION & ALTERATIONS TO:
Old Greenwich School
285 SOUND BEACH AVENUE
OLD GREENWICH, CONNECTICUT 06870



SILVER PETRUCCELLI + ASSOCIATES
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311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucci.com

Revision:	Description:	Date:	Revised By:
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Drawing Title:
**GENERAL MECHANICAL NOTES,
LEGENDS AND ABBREVIATIONS**
Project Phased:
ISSUED FOR BID
State Project Number:
STATE PROJECT #057-0115 EA/RR/CV

Date:
11/22/2024
Scale:
As Indicated
Drawn By:
NZ
Project Number:
22-382

Drawing Number:

M001

MECHANICAL GENERAL NOTES:

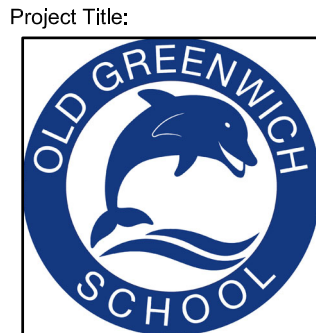
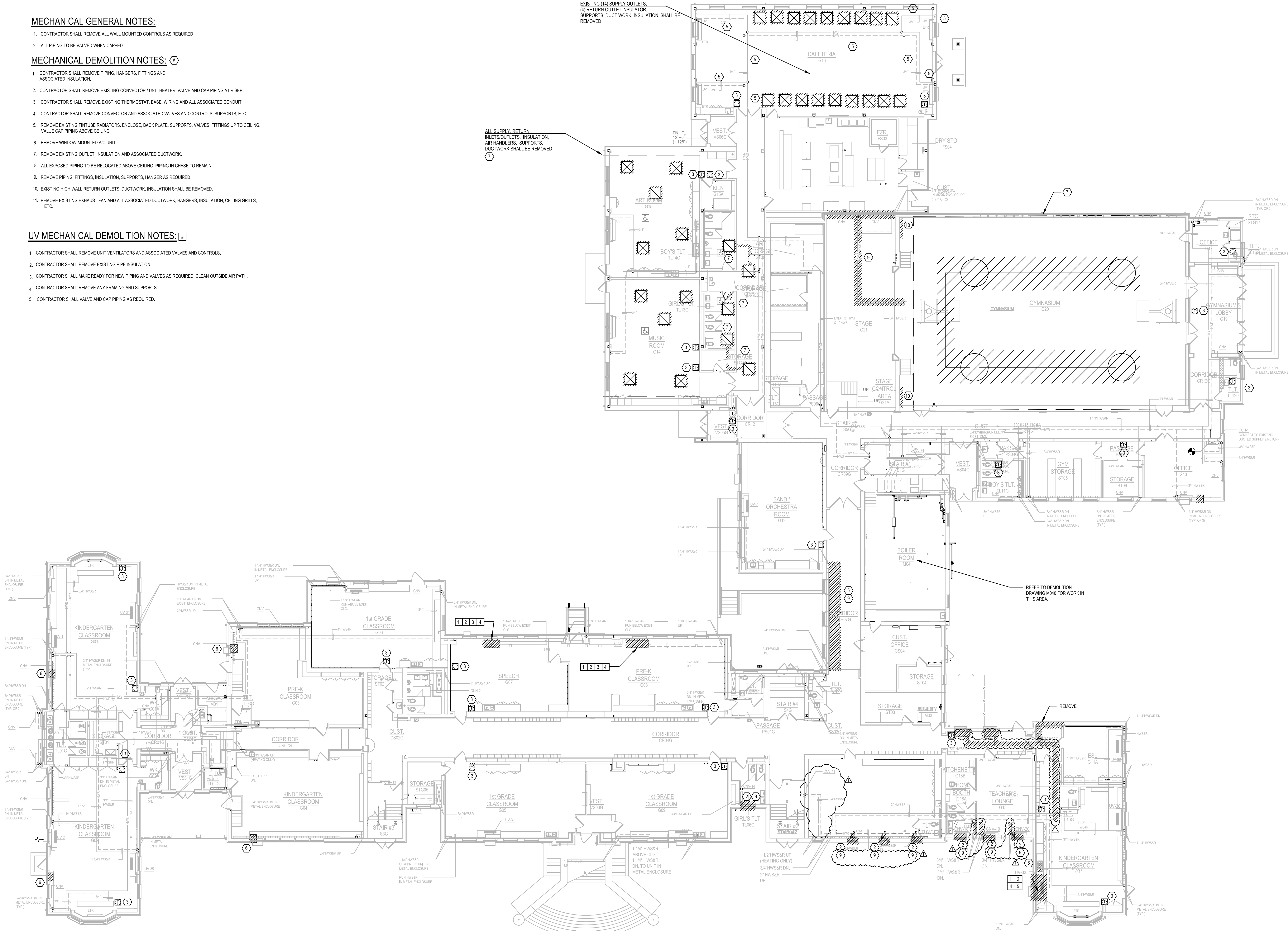
1. CONTRACTOR SHALL REMOVE ALL WALL MOUNTED CONTROLS AS REQUIRED
2. ALL PIPING TO BE VALVED WHEN CAPPED.

MECHANICAL DEMOLITION NOTES: ⑦

1. CONTRACTOR SHALL REMOVE PIPING, HANGERS, FITTINGS AND ASSOCIATED INSULATION.
2. CONTRACTOR SHALL REMOVE EXISTING CONVECTOR / UNIT HEATER, VALVE AND CAP PIPING AT RISER.
3. CONTRACTOR SHALL REMOVE EXISTING THERMOSTAT, BASE, WIRING AND ALL ASSOCIATED CONDUIT.
4. CONTRACTOR SHALL REMOVE CONVECTOR AND ASSOCIATED VALVES AND CONTROLS, SUPPORTS, ETC.
5. REMOVE EXISTING FINITUBE RADIATORS, ENCLOSE, BACK PLATE, SUPPORTS, VALVES, FITTINGS UP TO CEILING. VALVE CAP PIPING ABOVE CEILING.
6. REMOVE WINDOW MOUNTED A/C UNIT
7. REMOVE EXISTING OUTLET, INSULATION AND ASSOCIATED DUCTWORK.
8. ALL EXPOSED PIPING TO BE RELOCATED ABOVE CEILING. PIPING IN CHASE TO REMAIN.
9. REMOVE PIPING, FITTINGS, INSULATION, SUPPORTS, HANGER AS REQUIRED
10. EXISTING HIGH WALL RETURN OUTLETS, DUCTWORK, INSULATION SHALL BE REMOVED.
11. REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK, HANGERS, INSULATION, CEILING GRILLS, ETC.

UV MECHANICAL DEMOLITION NOTES: ⑦

1. CONTRACTOR SHALL REMOVE UNIT VENTILATORS AND ASSOCIATED VALVES AND CONTROLS.
2. CONTRACTOR SHALL REMOVE EXISTING PIPE INSULATION.
3. CONTRACTOR SHALL MAKE READY FOR NEW PIPING AND VALVES AS REQUIRED. CLEAN OUTSIDE AIR PATH.
4. CONTRACTOR SHALL REMOVE ANY FRAMING AND SUPPORTS.
5. CONTRACTOR SHALL VALVE AND CAP PIPING AS REQUIRED.



ADDITION & ALTERATIONS TO:
Old Greenwich School
285 SOUND BEACH AVENUE
OLD GREENWICH, CONNECTICUT 06870



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Revision:	Description:	Date:	Revised By:
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MECHANICAL DEMOLITION
PLAN - 1st FLOOR

Project Phase: ISSUED FOR BID
State Project Number: STATE PROJECT #057-0115 EA/RR/CV

Date: 11/22/2024
Scale: As Indicated
Drawn By: MZ
Project Number: 22-382

Drawing Number:

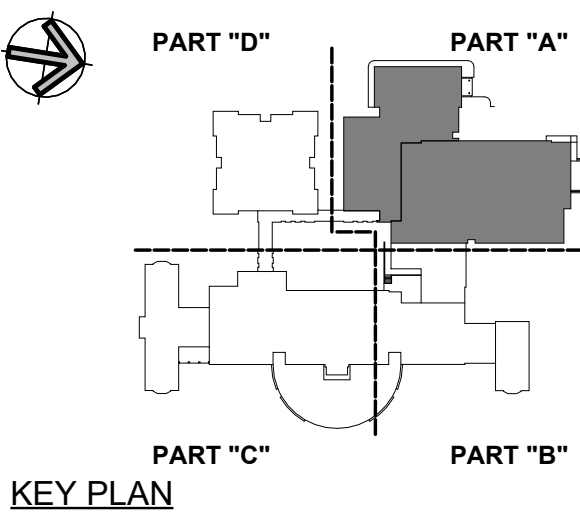
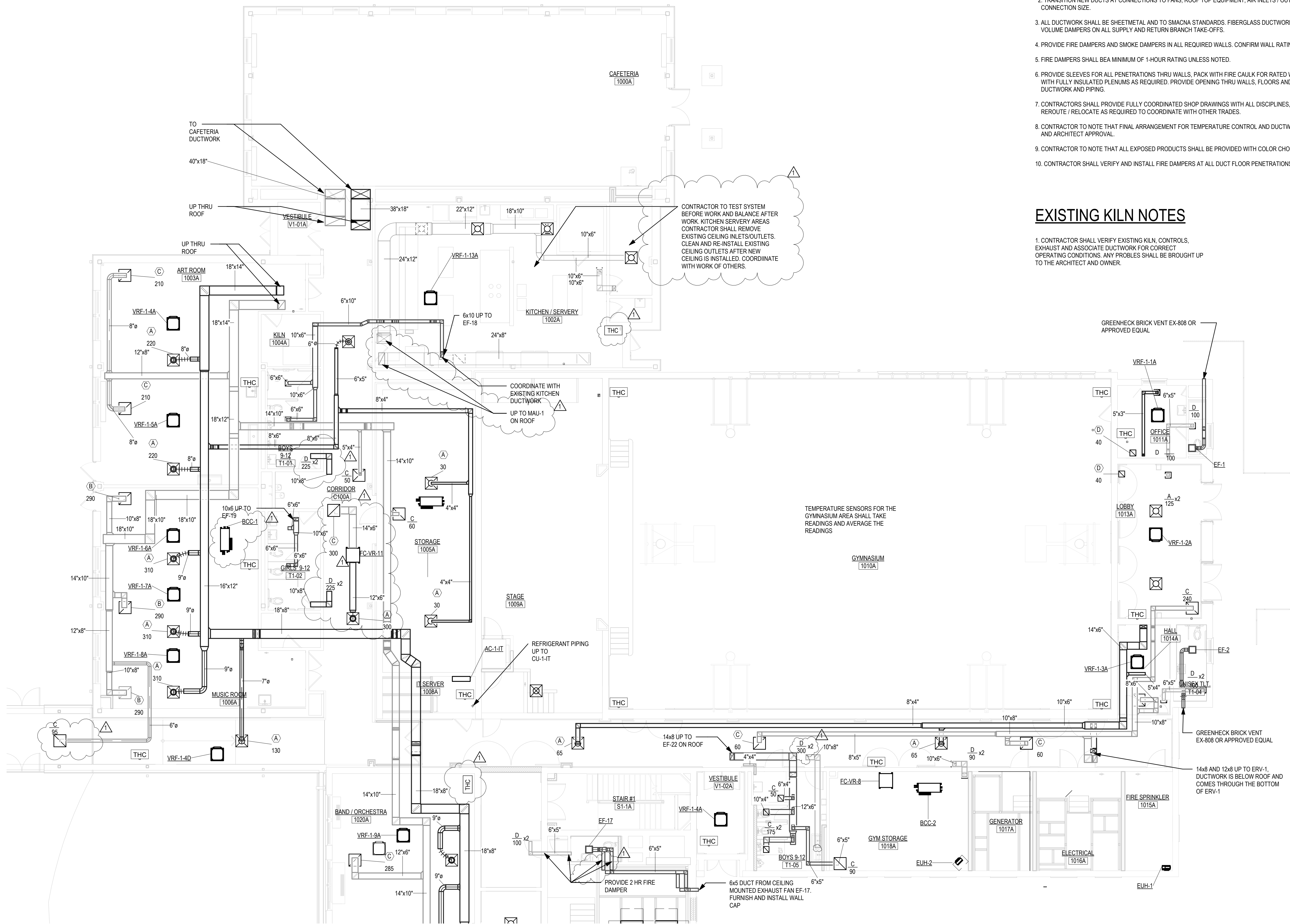
M010

GENERAL NOTES: TYPICAL FOR ALL SHEETS

1. PROVIDE ALL OFFSETS AS REQUIRED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES, STRUCTURAL MEMBERS, PIPING, ARCHITECTURAL, EXISTING, ETC.
2. TRANSITION NEW DUCTS AT CONNECTIONS TO FANS, ROOF TOP EQUIPMENT, AIR INLETS / OUTLETS TO MATCH CONNECTION SIZE.
3. ALL DUCTWORK SHALL BE SHEETMETAL AND TO SMACNA STANDARDS. FIBERGLASS DUCTWORK WILL NOT BE ALLOWED. PROVIDE VOLUME DAMPERS ON ALL SUPPLY AND RETURN BRANCH TAKE-OFFS.
4. PROVIDE FIRE DAMPERS AND SMOKE DAMPERS IN ALL REQUIRED WALLS. CONFIRM WALL RATINGS WITH ARCHITECTURAL.
5. FIRE DAMPERS SHALL BEA MINIMUM OF 1-HOUR RATING UNLESS NOTED.
6. PROVIDE SLEEVES FOR ALL PENETRATIONS THRU WALLS. PACK WITH FIRE CAULK FOR RATED WALLS. PROVIDE ALL LOUVERS WITH FULLY INSULATED PLENUMS AS REQUIRED. PROVIDE OPENING THRU WALLS, FLOORS AND CEILINGS AS REQUIRED FOR DUCTWORK AND PIPING.
7. CONTRACTORS SHALL PROVIDE FULLY COORDINATED SHOP DRAWINGS WITH ALL DISCIPLINES. CLEARLY INDICATED. REROUTE / RELOCATE AS REQUIRED TO COORDINATE WITH OTHER TRADES.
8. CONTRACTOR TO NOTE THAT FINAL ARRANGEMENT FOR TEMPERATURE CONTROL AND DUCTWORK LAYOUT SUBJECT TO ENGINEER AND ARCHITECT APPROVAL.
9. CONTRACTOR TO NOTE THAT ALL EXPOSED PRODUCTS SHALL BE PROVIDED WITH COLOR CHOICE OF ARCHITECT
10. CONTRACTOR SHALL VERIFY AND INSTALL FIRE DAMPERS AT ALL DUCT FLOOR PENETRATIONS AS REQUIRED PER CODE.

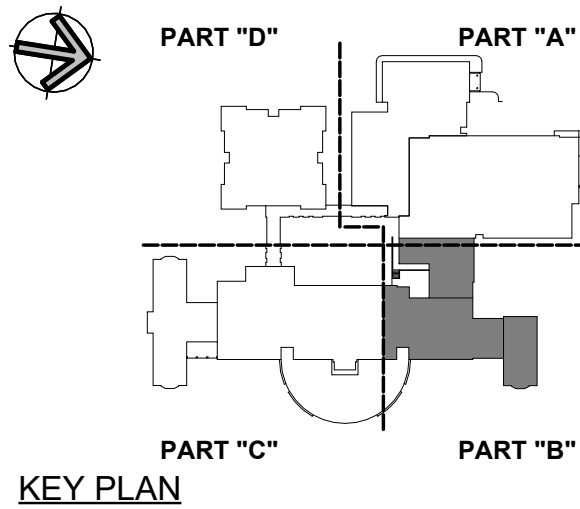
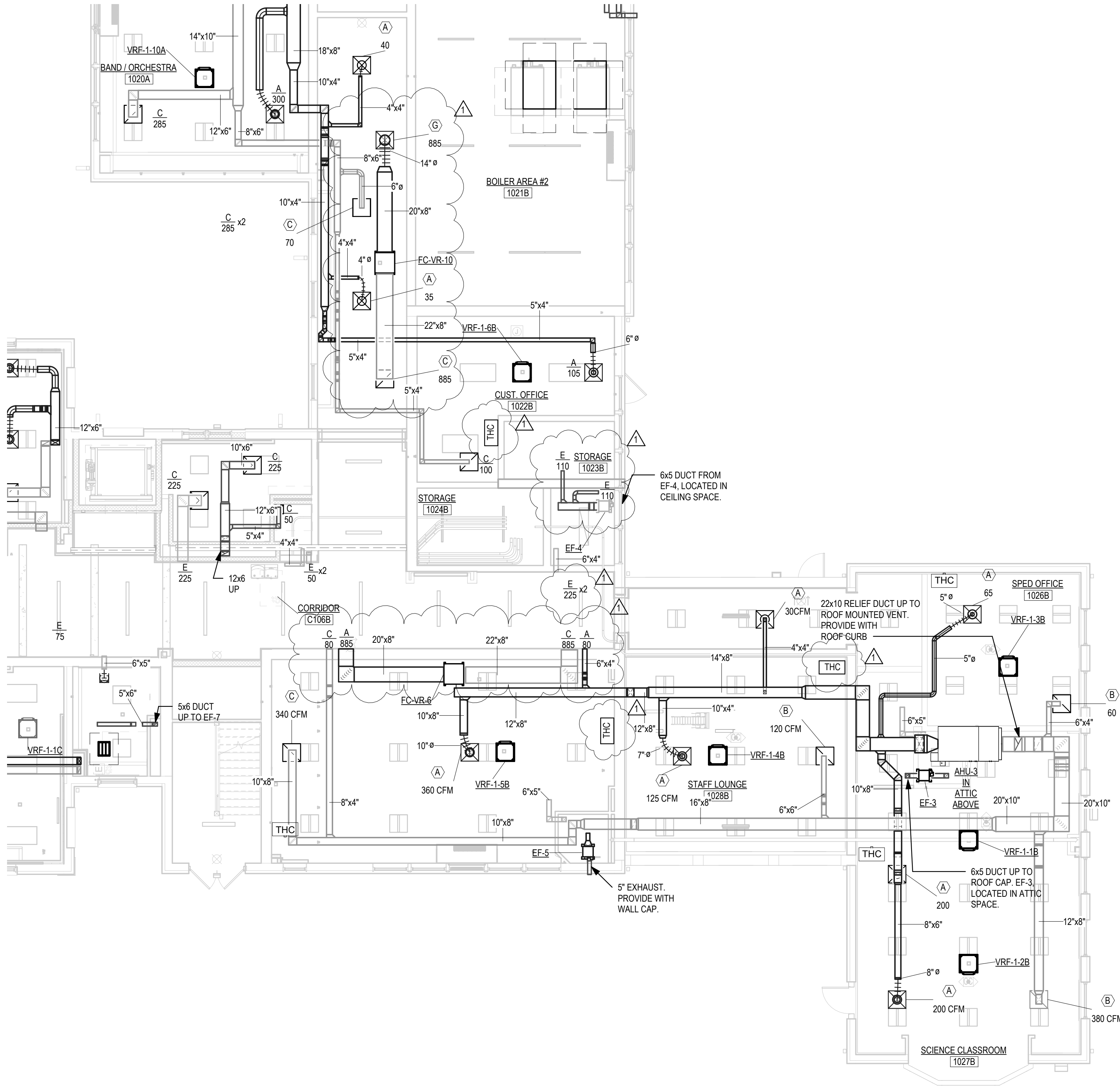
EXISTING KILN NOTES

1. CONTRACTOR SHALL VERIFY EXISTING KILN, CONTROLS, EXHAUST AND ASSOCIATE DUCTWORK FOR CORRECT OPERATING CONDITIONS. ANY PROBLEMS SHALL BE BROUGHT UP TO THE ARCHITECT AND OWNER.



GENERAL NOTES: TYPICAL FOR ALL SHEETS

1. PROVIDE ALL OFFSETS AS REQUIRED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES, STRUCTURAL MEMBERS, PIPING, ARCHITECTURAL EXISTING, ETC.
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10. CONTRACTOR SHALL VERIFY AND INSTALL FIRE DAMPERS AT ALL DUCT FLOOR PENETRATIONS AS REQUIRED PER CODE.



Project Title:
ADDITION & ALTERATIONS TO:
Old Greenwich School
285 SOUND BEACH AVENUE
OLD GREENWICH, CONNECTICUT 06870



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3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
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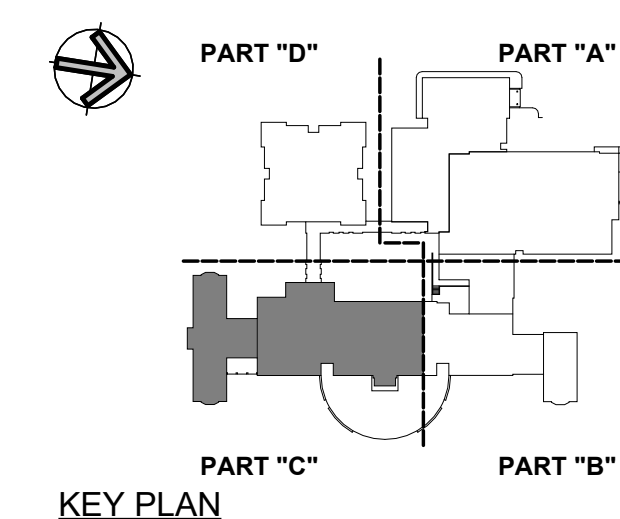
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Drawing Title:
FIRST FLOOR HVAC PLAN PART 'B'
Project Phase:
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State Project Number:
STATE PROJECT #057-0115 EA/RR/CV

Date:
11/22/2024
Scale:
1/8" = 1'-0"
Drawn By:
M.Z.
Project Number:
22-382

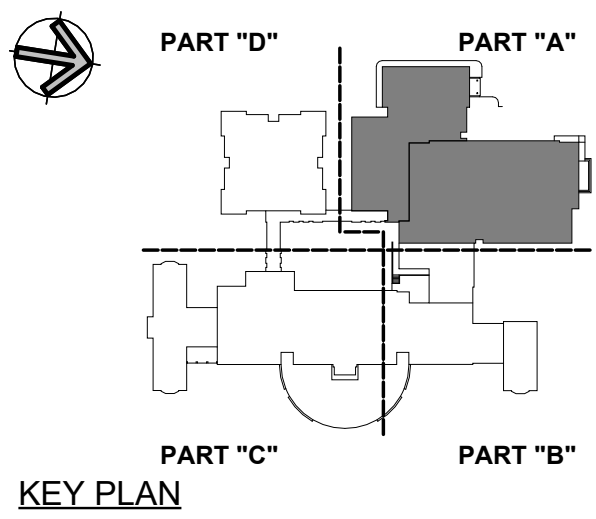
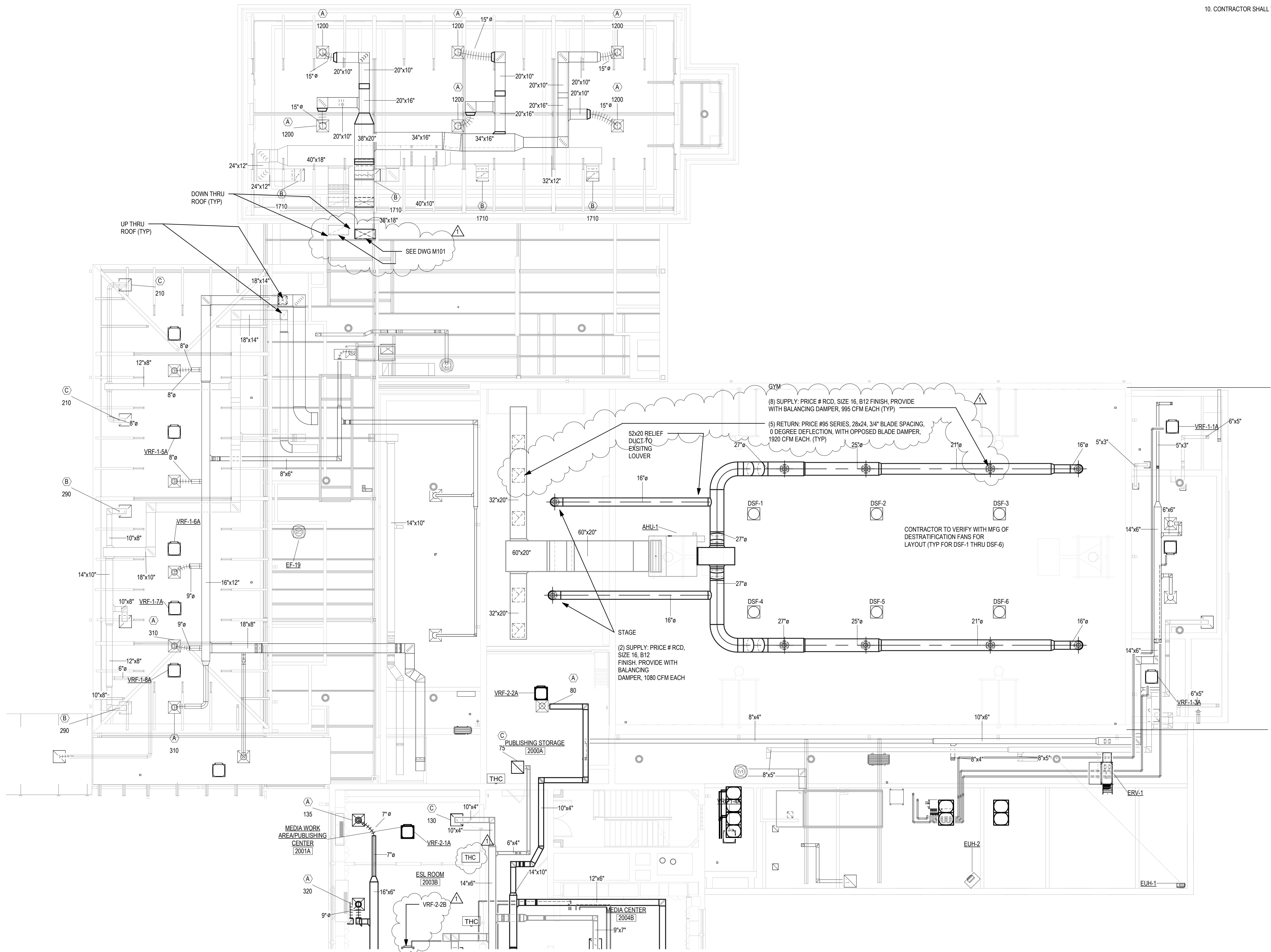
M102

1. PROVIDE ALL OFFSETS AS REQUIRED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES, STRUCTURAL MEMBERS, PIPING, ARCHITECTURAL, EXISTING, ETC.
2. TRANSITION NEW DUCTS AT CONNECTIONS TO FANS, ROOF TOP EQUIPMENT, AIR INLETS / OUTLETS TO MATCH CONNECTION SIZE.
3. ALL DUCTWORK SHALL BE SHEETMETAL AND TO SMACNA STANDARDS. FIBERGLASS DUCTWORK WILL NOT BE ALLOWED PROVIDE VOLUME DAMPERS ON ALL SPLY AND RETURN BRANCH TAKE-OFFS.
4. PROVIDE FIRE DAMPERS AND SMOKE DAMPERS IN ALL REQUIRED WALLS. CONFIRM WALL RATINGS WITH ARCHITECTURAL.
5. FIRE DAMPERS SHALL BEA MINIMUM OF 1-HOUR RATING UNLESS NOTED.
6. PROVIDE SLEEVES FOR ALL PENETRATIONS THRU WALLS. PACK WITH FIRE CAULK FOR RATED WALLS. PROVIDE ALL LOUVERS WITH FULLY INSULATED PLENUMS AS REQUIRED. PROVIDE OPENING THRU WALLS, FLOORS AND CEILINGS AS REQUIRED FOR DUCTWORK AND PIPING.
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8. CONTRACTOR TO NOTE THAT FINAL ARRANGEMENT FOR TEMPERATURE CONTROL, AND DUCTWORK LAYOUT SUBJECT TO ENGINEER AND ARCHITECT APPROVAL.
9. CONTRACTOR TO NOTE THAT ALL EXPOSED PRODUCTS SHALL BE PROVIDED WITH COLOR CHOICE OF ARCHITECT
10. CONTRACTOR SHALL VERIFY AND INSTALL FIRE DAMPERS AT ALL DUCT FLOOR PENETRATIONS AS REQUIRED PER CODE.



GENERAL NOTES: TYPICAL FOR ALL SHEETS

1. PROVIDE ALL OFFSETS AS REQUIRED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES, STRUCTURAL MEMBERS, PIPING, ARCHITECTURAL EXISTING, ETC.
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10. CONTRACTOR SHALL VERIFY AND INSTALL FIRE DAMPERS AT ALL DUCT FLOOR PENETRATIONS AS REQUIRED PER CODE.



Project Title:
OLD GREENWICH SCHOOL
ADDITION & ALTERATIONS TO:
Old Greenwich School
285 SOUND BEACH AVENUE
OLD GREENWICH, CONNECTICUT 06870

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

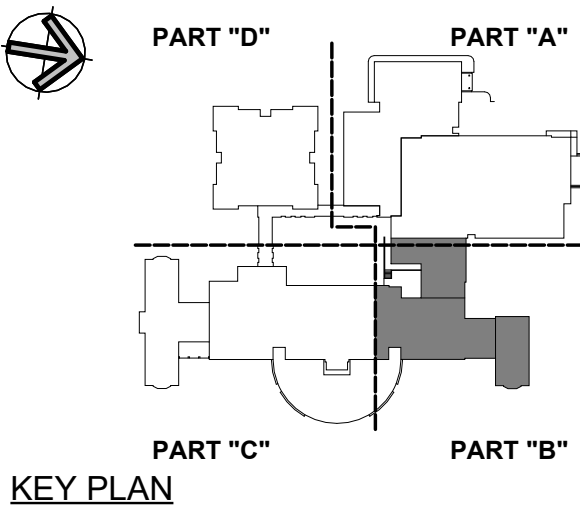
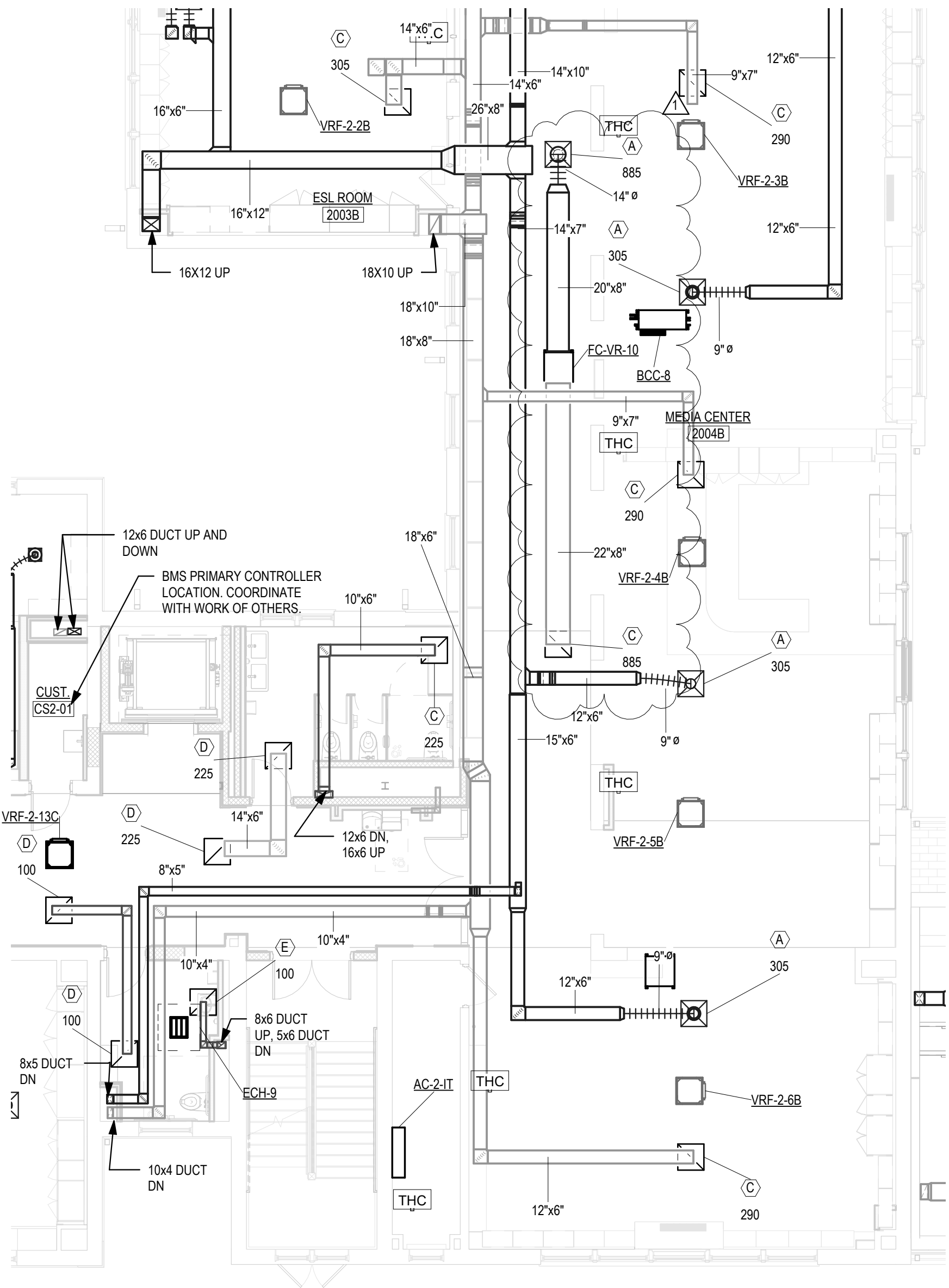
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Drawing Title:
SECOND FLOOR HVAC PLAN PART 'A'
Project Phase:
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State Project Number:
STATE PROJECT #057-0115 EA/RR/ CV

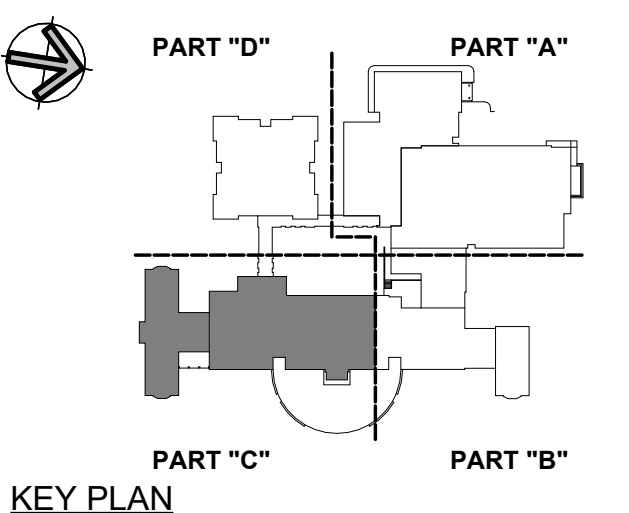
Date:
11/22/2024
Scale:
1/8" = 1'-0"
Drawn By:
M.Z.
Project Number:
22-382
Drawing Number:
M110

GENERAL NOTES: TYPICAL FOR ALL SHEETS

1. PROVIDE ALL OFFSETS AS REQUIRED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES, STRUCTURAL MEMBERS, PIPING, ARCHITECTURAL, EXISTING, ETC.
2. TRANSITION NEW DUCTS AT CONNECTIONS TO FANS, ROOF TOP EQUIPMENT, AIR INLETS / OUTLETS TO MATCH CONNECTION SIZE.
3. ALL DUCTWORK SHALL BE SHEETMETAL AND TO SMACNA STANDARDS. FIBERGLASS DUCTWORK WILL NOT BE ALLOWED.PROVIDE VOLUME DAMPERS ON ALL SUPPLY AND RETURN BRANCH TAKE-OFFS.
4. PROVIDE FIRE DAMPERS AND SMOKE DAMPERS IN ALL REQUIRED WALLS. CONFIRM WALL RATINGS WITH ARCHITECTURAL.
5. FIRE DAMPERS SHALL BEA MINIMUM OF 1-HOUR RATINGS UNLESS NOTED.
6. PROVIDE SLEEVES FOR ALL PENETRATIONS THRU WALLS, PACK WITH FIRE CAULK FOR RATED WALLS. PROVIDE ALL LOUVERS WITH FULLY INSULATED PLENUMS AS REQUIRED. PROVIDE OPENING THRU WALLS, FLOORS AND CEILINGS AS REQUIRED FOR DUCTWORK AND PIPING.
7. CONTRACTORS SHALL PROVIDE FULLY COORDINATED SHOP DRAWINGS WITH ALL DISCIPLINES, CLEARLY INDICATED. REROUTE / RELOCATE AS REQUIRED TO COORDINATE WITH OTHER TRADES.
8. CONTRACTOR TO NOTE THAT FINAL ARRANGEMENT FOR TEMPERATURE CONTROL AND DUCTWORK LAYOUT SUBJECT TO ENGINEER AND ARCHITECT APPROVAL.
9. CONTRACTOR TO NOTE THAT ALL EXPOSED PRODUCTS SHALL BE PROVIDED WITH COLOR CHOICE OF ARCHITECT
10. CONTRACTOR SHALL VERIFY AND INSTALL FIRE DAMPERS AT ALL DUCT FLOOR PENETRATIONS AS REQUIRED PER CODE.



1. PROVIDE ALL OFFSETS AS REQUIRED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES, STRUCTURAL MEMBERS, PIPING, ARCHITECTURAL, EXISTING, ETC.
2. TRANSITION NEW DUCTS AT CONNECTIONS TO FANS, ROOF TOP EQUIPMENT, AIR INLETS / OUTLETS TO MATCH CONNECTION SIZE.
3. ALL DUCTWORK SHALL BE SHEETMETAL AND TO SMACNA STANDARDS. FIBERGLASS DUCTWORK WILL NOT BE ALLOWED. PROVIDE VOLUME DAMPERS ON ALL SUPPLY AND RETURN BRANCH TAKE-OFFS.
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KEY PLAN

[illegible]

Date:
11/22/2024

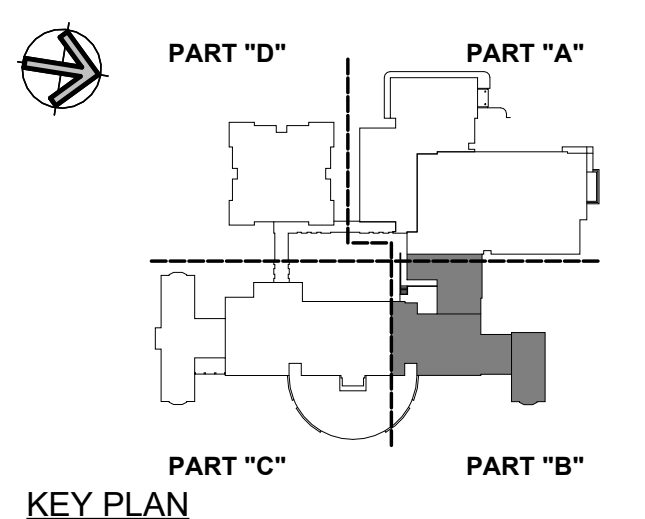
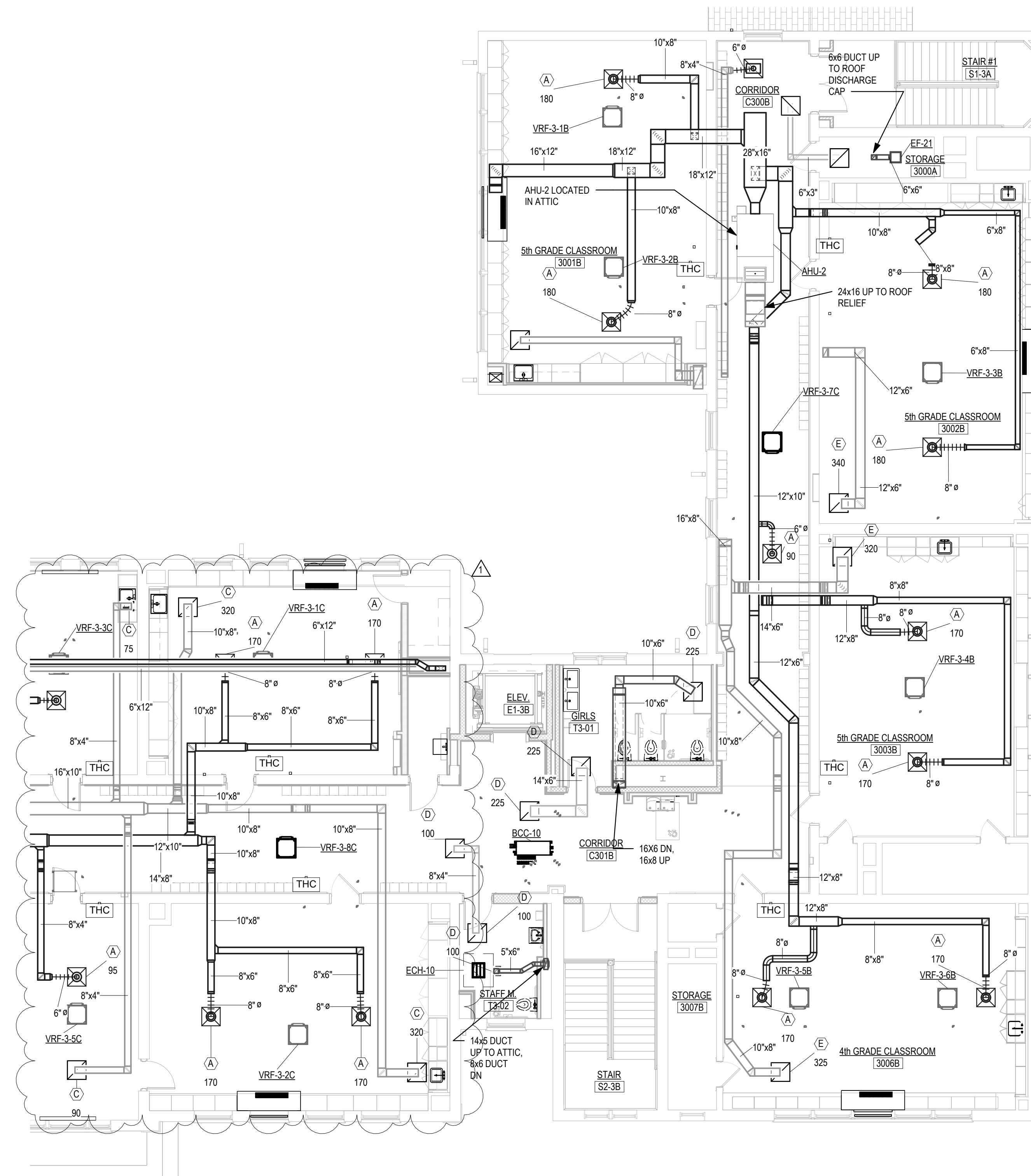
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Drawn By:
MZ

Project Number:
22-382

4/15/2025 2:07:24 PM

1. PROVIDE ALL OFFSETS AS REQUIRED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES, STRUCTURAL MEMBERS, PIPING, ARCHITECTURAL, EXISTING, ETC.
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KEY PLAN

[illegible]

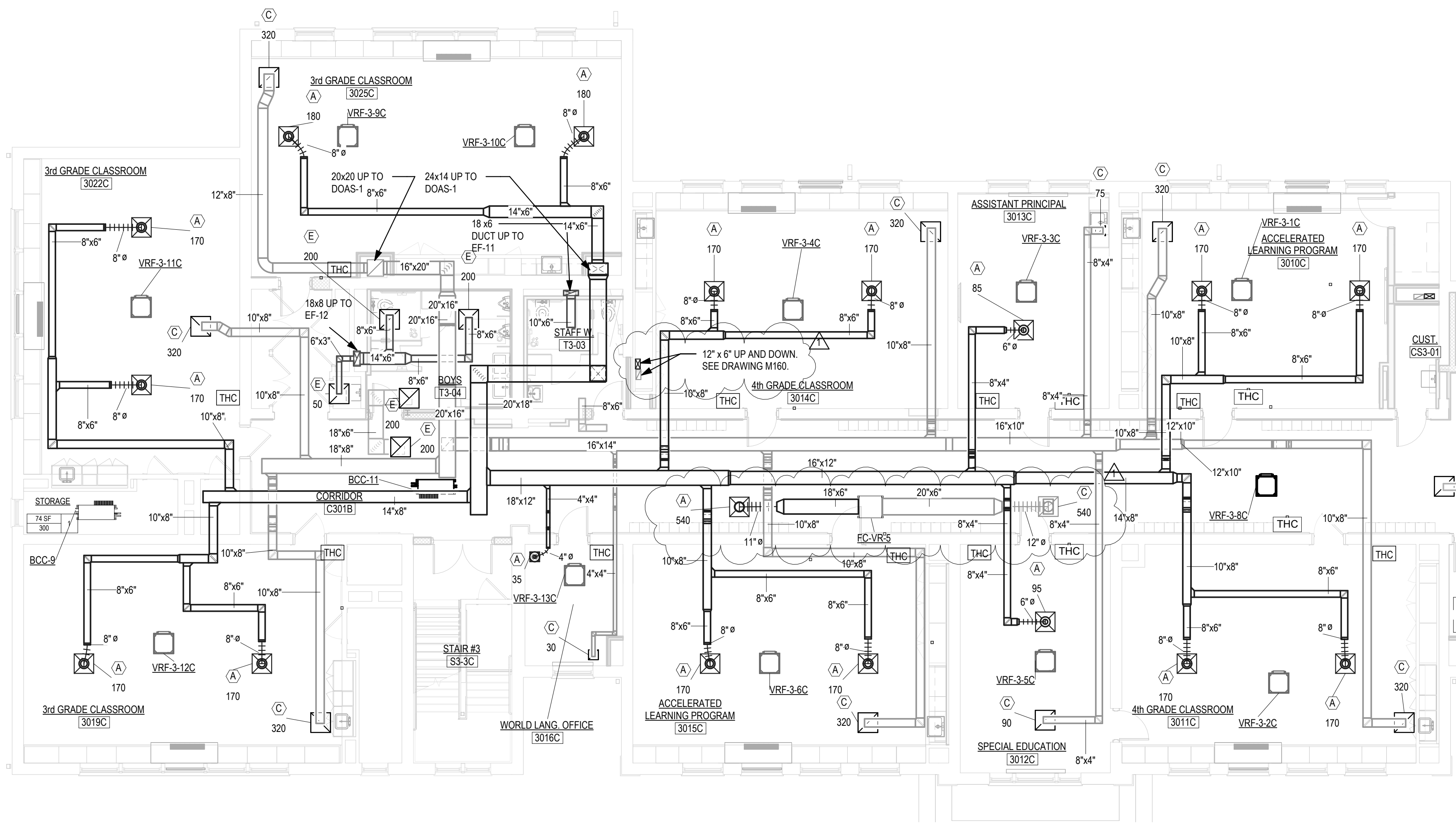
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 Drawn By: MZ
 Project Number: 22-382

M140

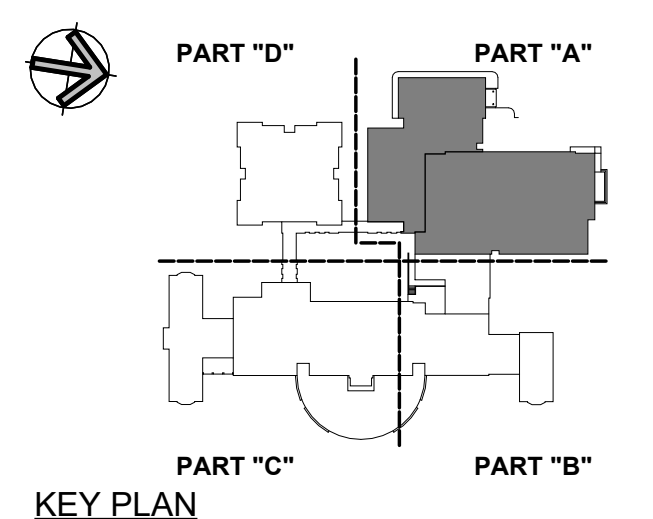
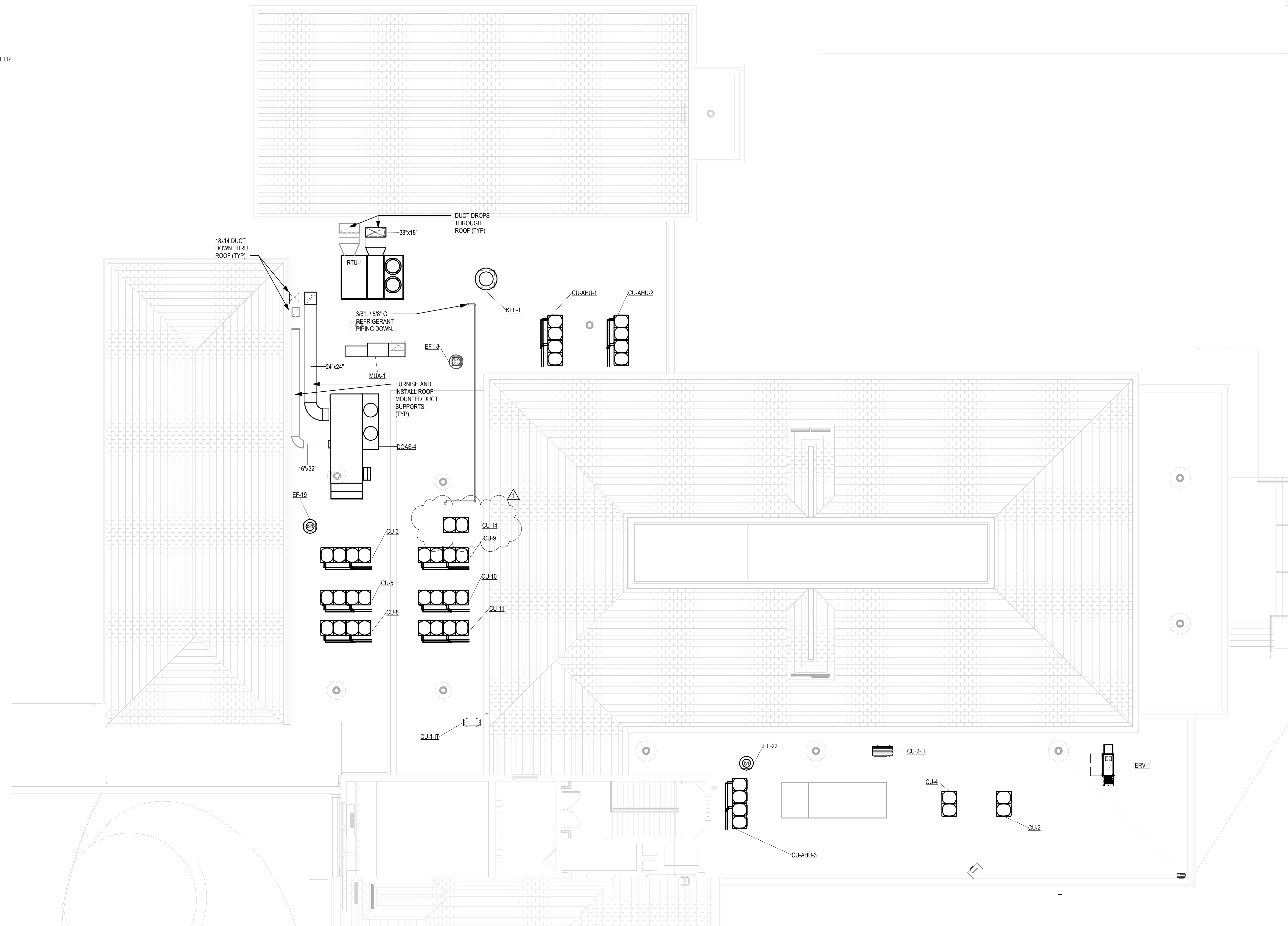
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GENERAL NOTES: TYPICAL FOR ALL SHEETS

1. PROVIDE ALL OFFSETS AS REQUIRED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES, STRUCTURAL MEMBERS, PIPING, ARCHITECTURAL, EXISTING, ETC.
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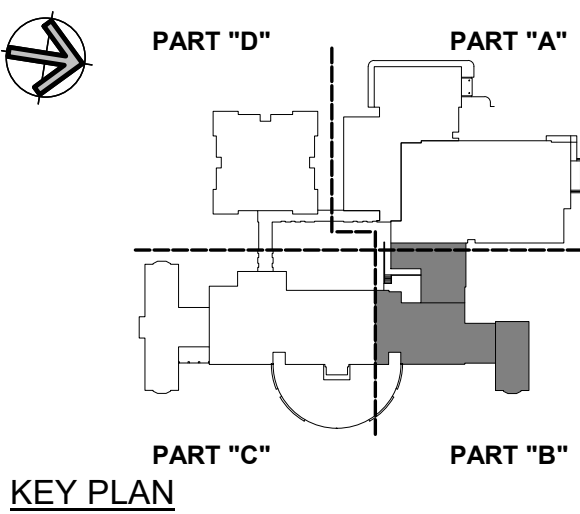
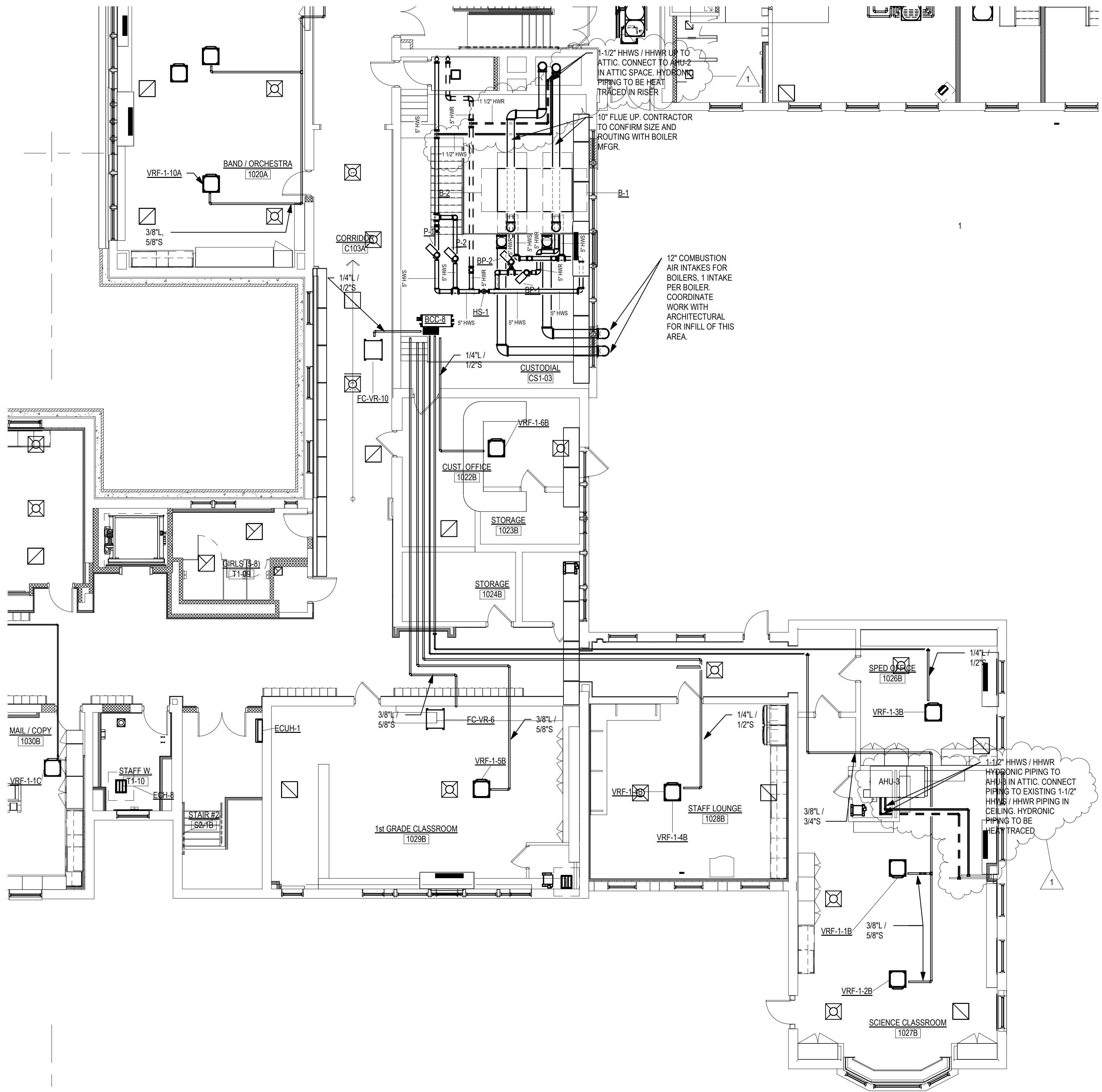


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GENERAL PIPING NOTES:

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2. CONTRACTOR SHALL PROVIDE SHUT-OFF VALVES ON ALL SUPPLY AND RETURN BRANCH TAKE-OFFS TO NEW EQUIPMENT.
3. CONTRACTOR SHALL PROVIDE PIPE SLEEVES FOR ALL PENETRATIONS THRU WALLS AND FLOORS, PACK WITH FIRE CAULK OR OTHER UL APPROVED MATERIAL TO MAINTAIN FIRE RATING.
4. CONTRACTOR SHALL COORDINATE PIPING WITH WORK OF OTHER TRADES, ARCHITECTURAL AND EXISTING CONDITIONS.
5. CONTRACTOR SHALL PROVIDE DIELECTRIC FITTINGS AS REQUIRED BETWEEN DISSIMILAR PIPE MATERIALS.
6. CONTRACTOR SHALL RUN ALL PIPING FULL SIZE TO EQUIPMENT.
7. CONTRACTOR TO PROVIDE ALL FRAMING, HANGERS, SUPPORTS, INSULATION AS REQUIRED FOR ALL PIPING INSTALLED ON THIS PROJECT.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF PIPE ROUTING.
9. CONTRACTOR TO PROVIDE EXPANSION LOOPS OR COMPENSATORS, AS REQUIRED, FOR A COMPLETE AND OPERATION SYSTEM. COORDINATE WITH WORK OF OTHER TRADES AND EXISTING CONDITIONS.



Project Title:
**ADDITION & ALTERATIONS TO:
Old Greenwich School**
285 SOUND BEACH AVENUE
OLD GREENWICH, CONNECTICUT 06870



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

Revision:	Description:	Date:	Revised By:
1	BULLETIN #2	04/16/2025	MZ

Drawing Title:
1st FLOOR HVAC PIPING PLAN PART 'B'

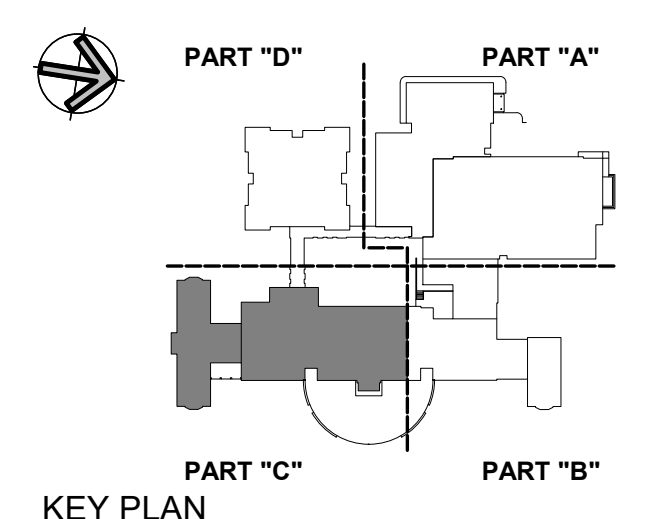
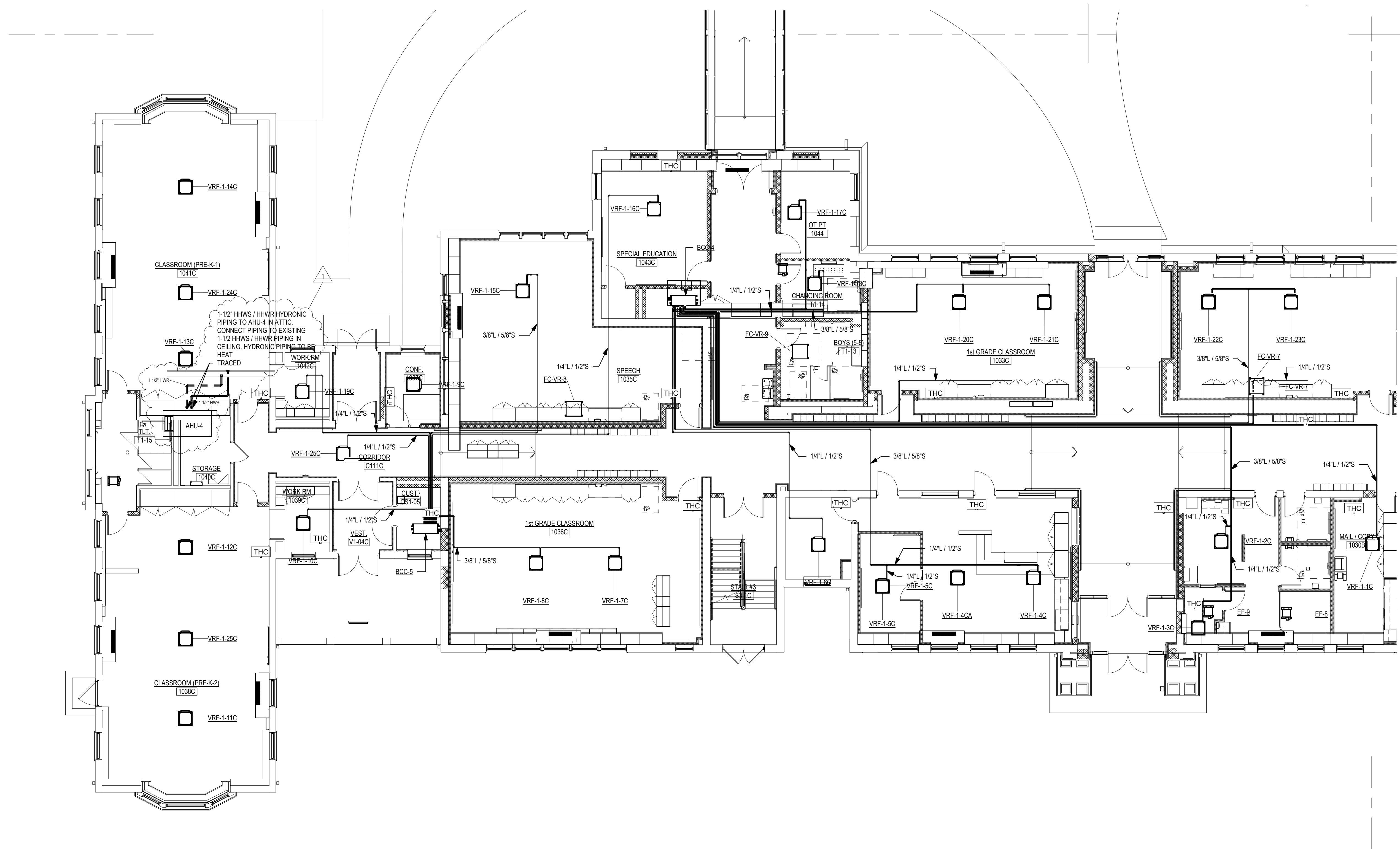
Project Phase:
ISSUED FOR BID

Date: 11/22/2024
Scale: 1/8" = 1'-0"
Drawn By: MZ
State Project Number: 22-382
STATE PROJECT #057-0115 EA/RR/CV

M202

GENERAL PIPING NOTES:

1. SEE GENERAL MECHANICAL NOTES, LEGENDS AND PROVIDE ABBREVIATIONS ON DRAWING M001. REQUIRED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES.
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Project Title:
**ADDITION & ALTERATIONS TO:
Old Greenwich School**
285 SOUND BEACH AVENUE
OLD GREENWICH, CONNECTICUT 06870



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

Revision:	Description:	Date:	Revised By:
1	BULLETIN #2	04/16/2025	MZ

Drawing Title:
1st FLOOR HVAC PIPING PLAN PART 'C'

Project Phase:
ISSUED FOR BID

Date: Project Number:
03/19/2025
STATE PROJECT #057-0115 EA/RR/CV

Date:
11/22/2024

Scale:
1/8" = 1'-0"

Drawn By:
MZ

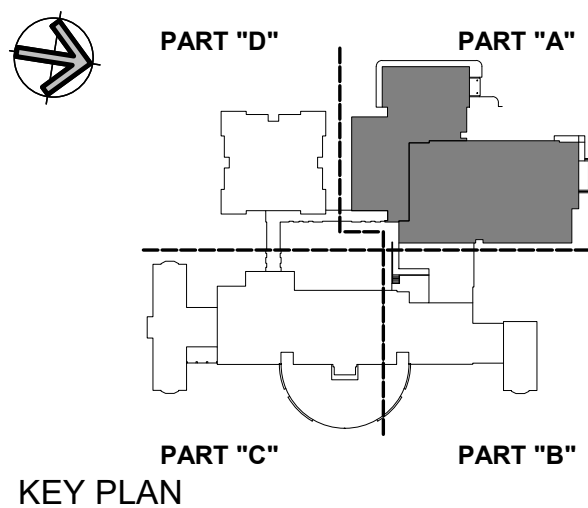
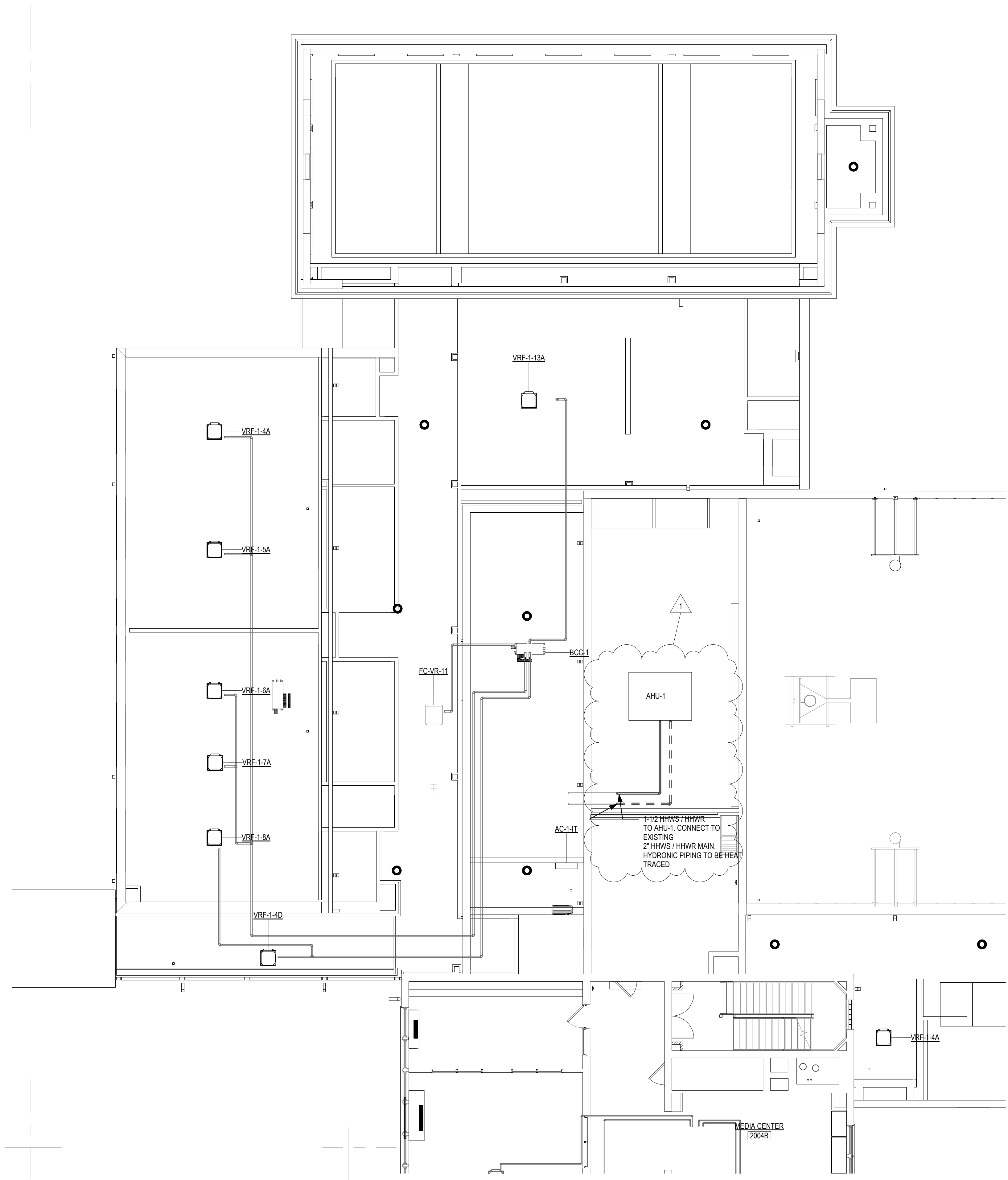
Project Number:
22-382

Drawing Number:
M203

4/16/2025 1:40:06 PM

GENERAL PIPING NOTES:

1. SEE GENERAL MECHANICAL NOTES, LEGENDS AND PROVIDE ABBREVIATIONS ON DRAWING M001. IURED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES.
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Project Title:
**ADDITION & ALTERATIONS TO:
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285 SOUND BEACH AVENUE
OLD GREENWICH, CONNECTICUT 06870



SILVER PETRUCCELLI + ASSOCIATES
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203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	BULLETIN #2	04/16/2025	MZ

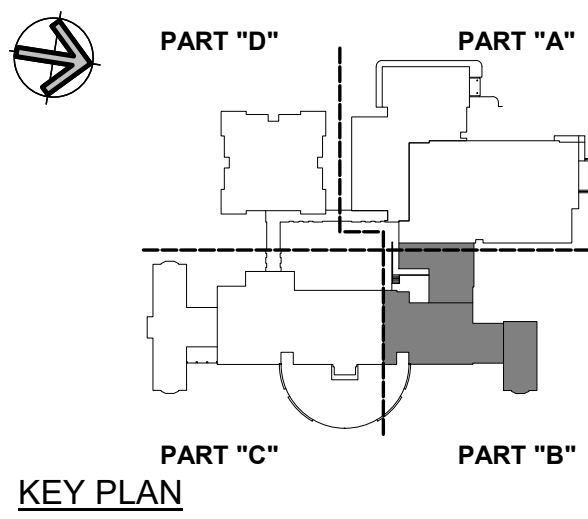
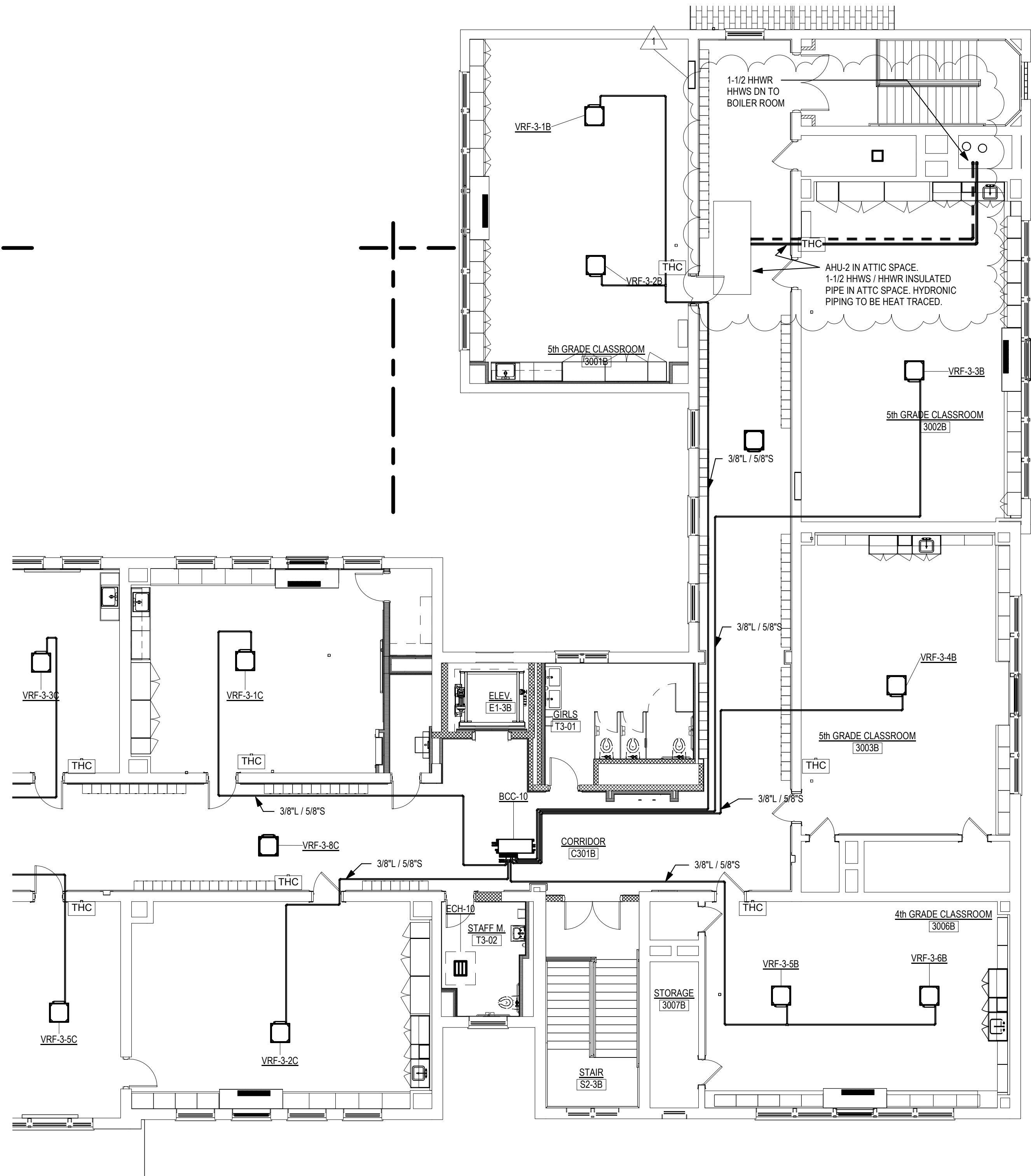
Drawing Title:
2nd FLOOR HVAC PIPING PLAN PART 'A'
Project Phase:
ISSUED FOR BID
State Project Number:
STATE PROJECT #057-0115 EA/RR/CV

Date:
11/22/2024
Scale:
1/8" = 1'-0"
Drawn By:
MZ
Project Number:
22-382

M210

GENERAL PIPING NOTES:

1. SEE GENERAL MECHANICAL NOTES, LEGENDS AND PROVIDE ABBREVIATIONS ON DRAWING M001 UIED FOR DUCTWORK AND PIPING TO CLEAR ALL DEVICES.
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**ADDITION & ALTERATIONS TO:
Old Greenwich School**
285 SOUND BEACH AVENUE
OLD GREENWICH, CONNECTICUT 06870



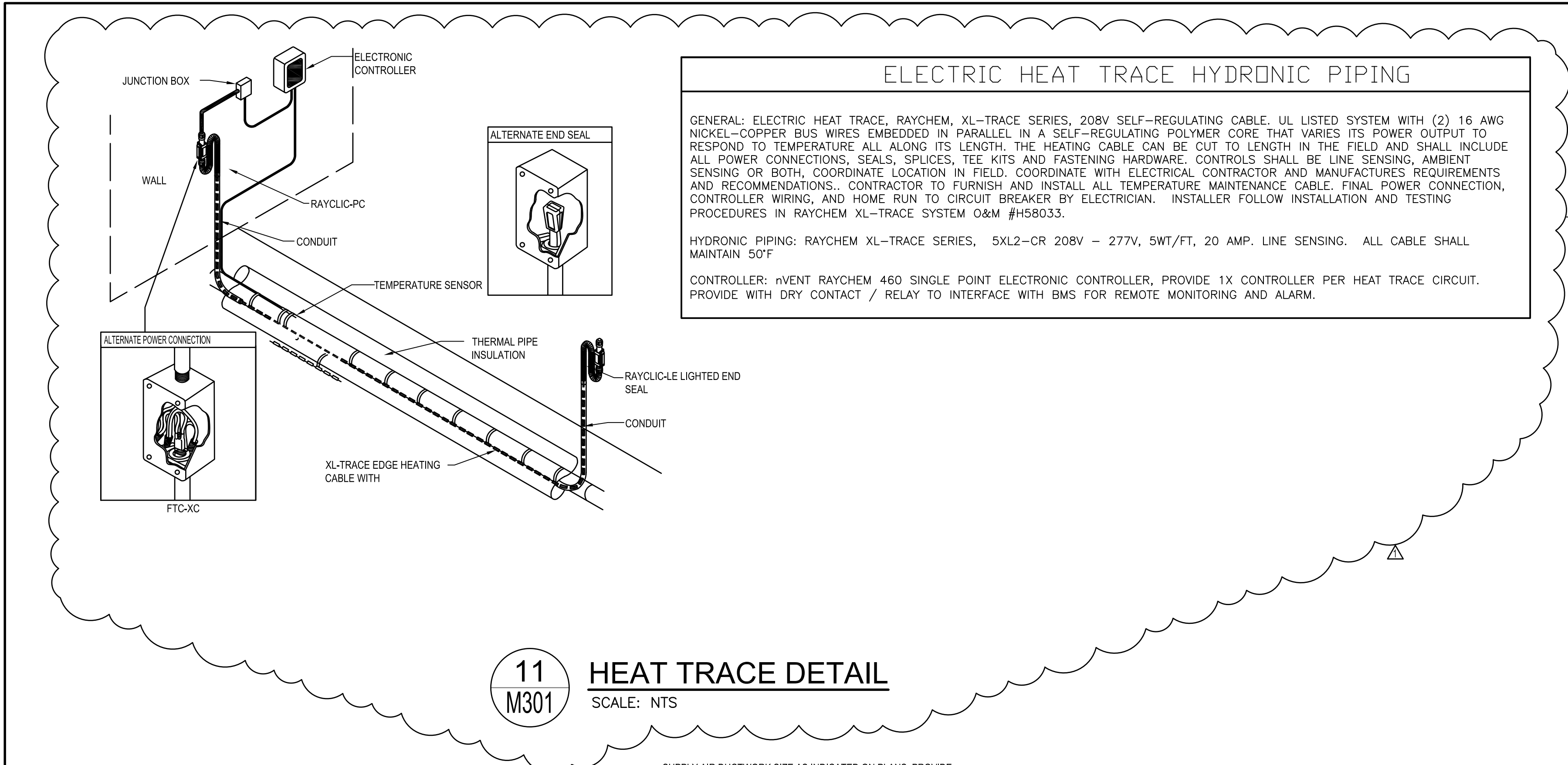
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Revision:	Description:	Date:	Revised By:
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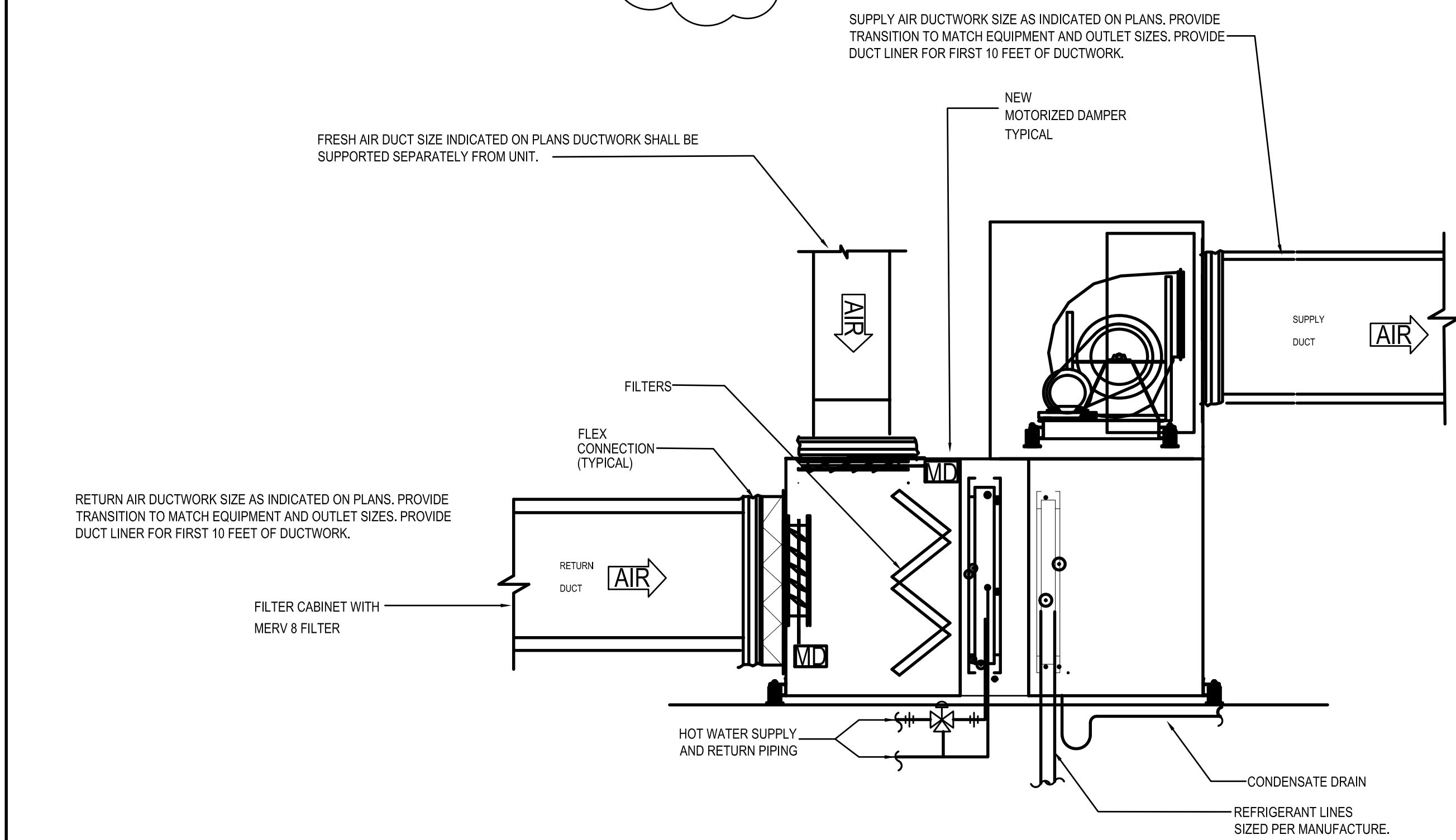
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Project Phase:
ISSUED FOR BID
State Project Number:
STATE PROJECT #057-0115 EA/RR/CV

Date:
11/22/2024
Scale:
1/8" = 1'-0"
Drawn By:
Author:
Project Number:
22-382

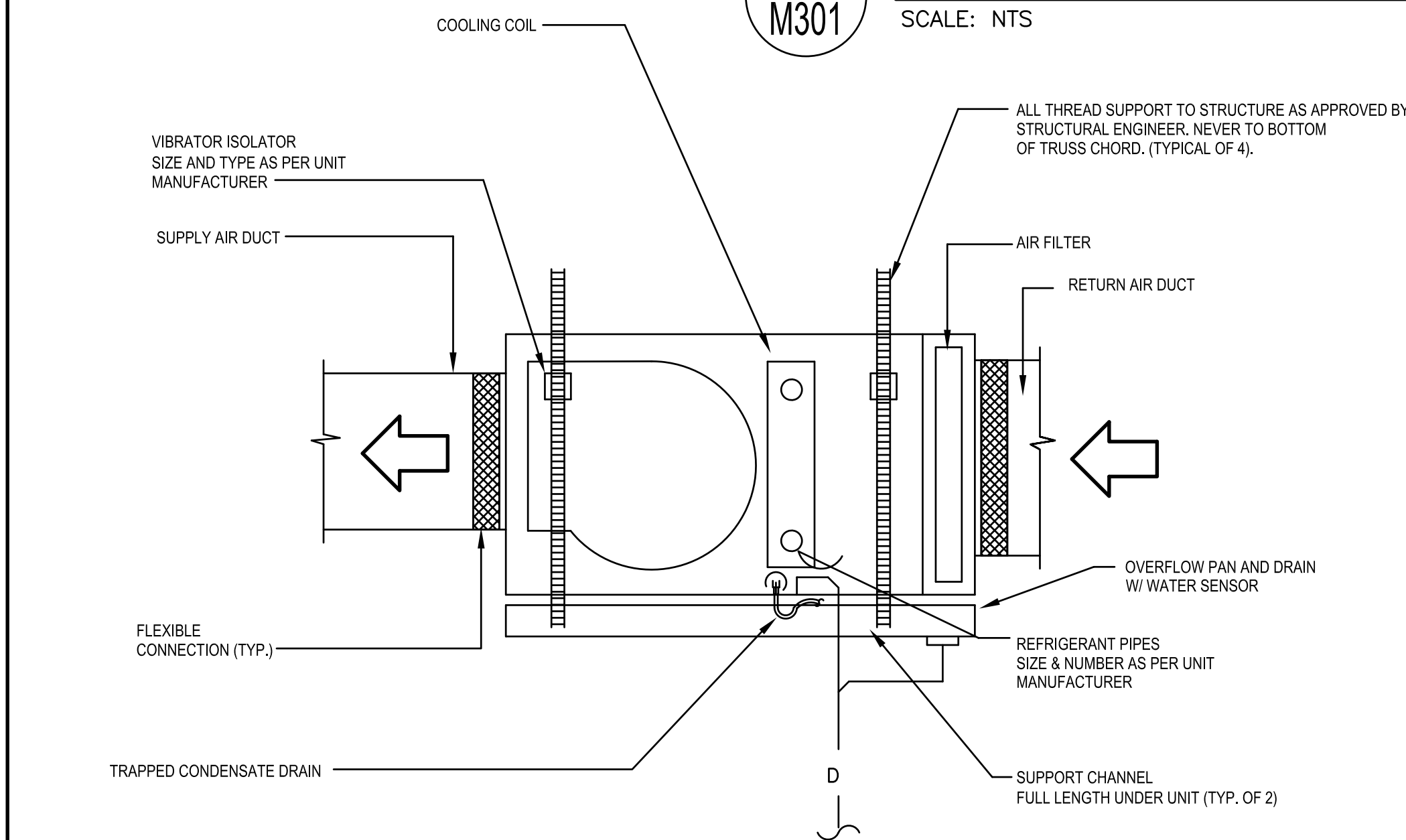
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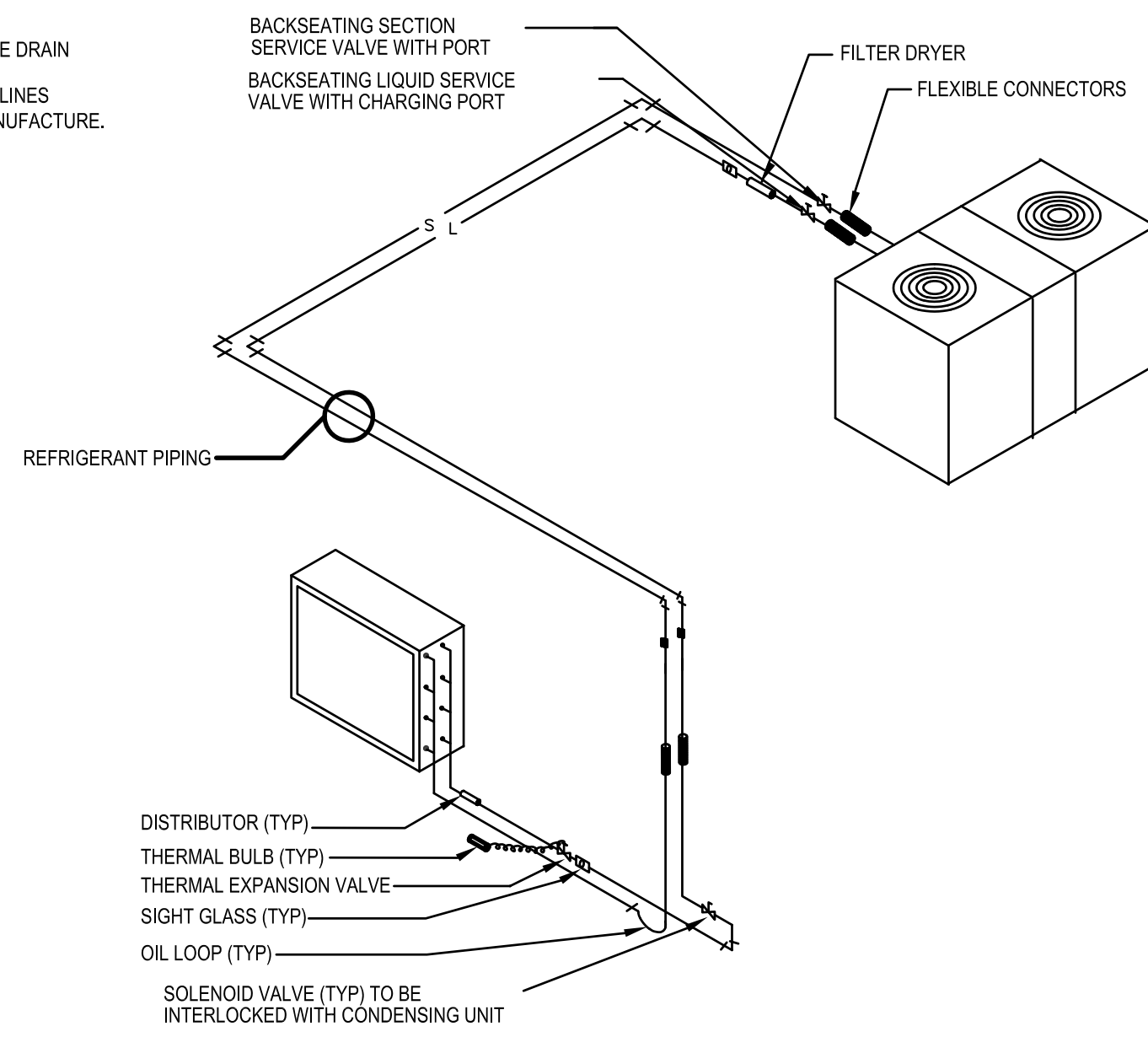
11 HEAT TRACE DETAIL
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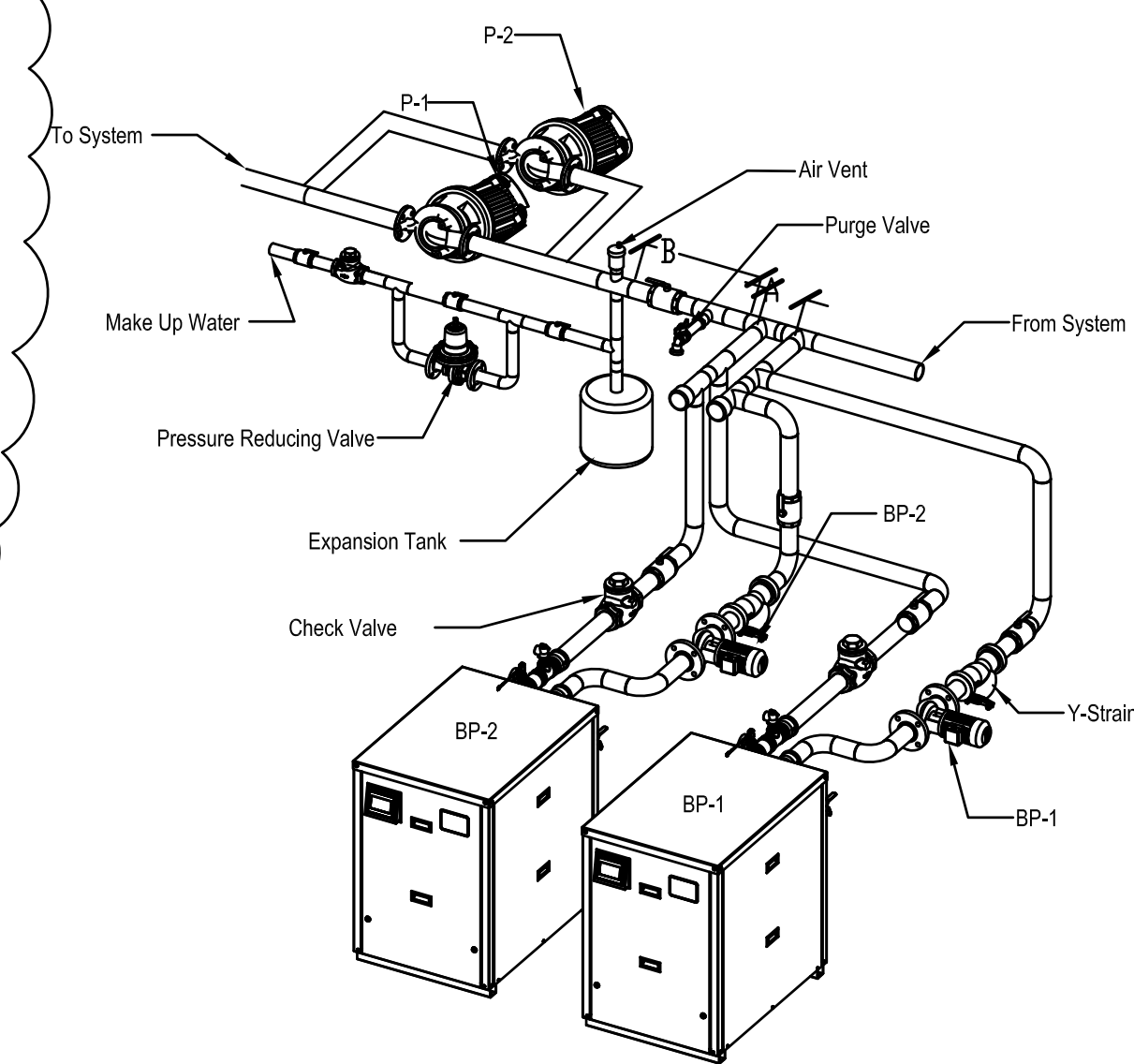
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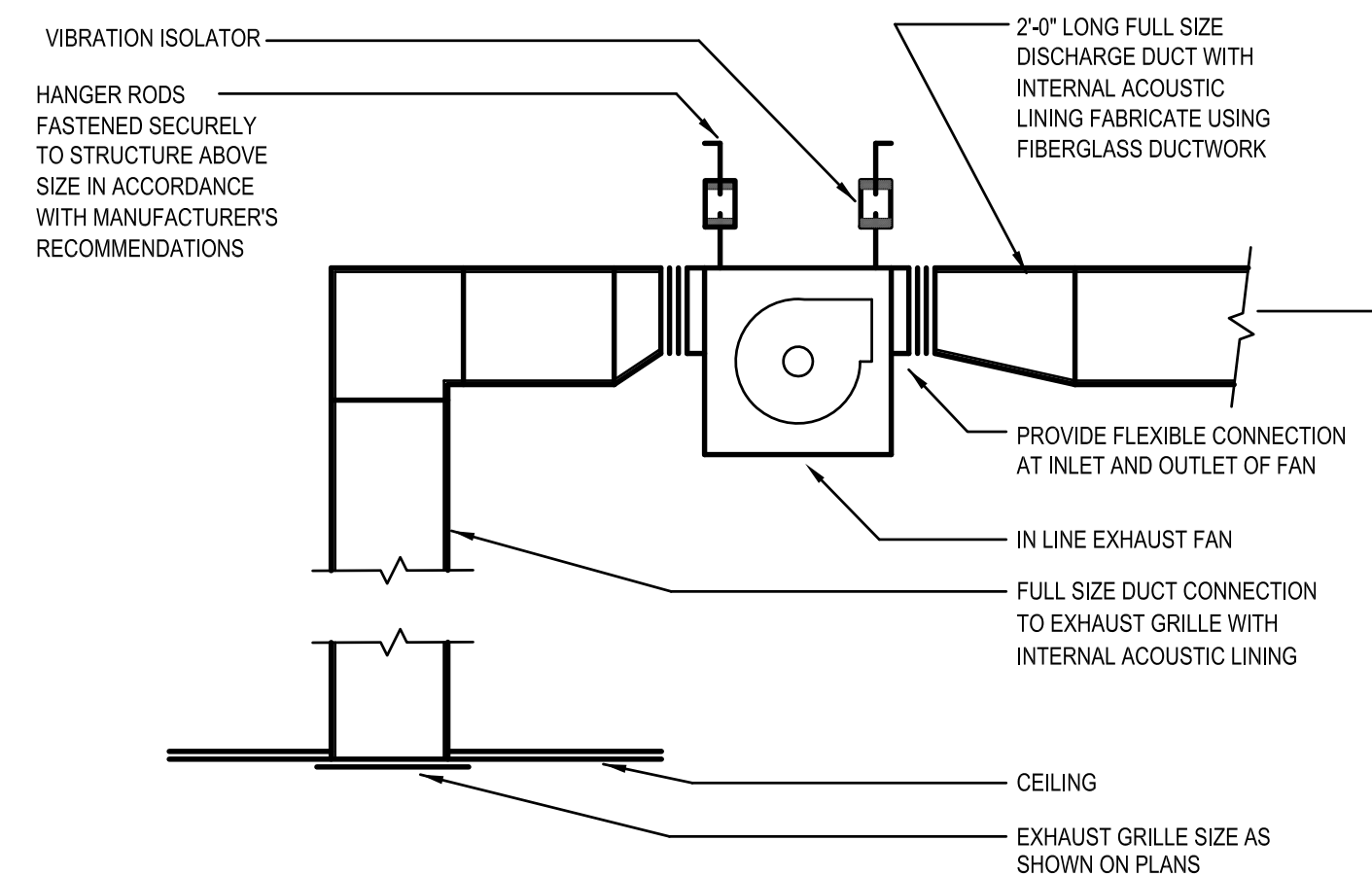
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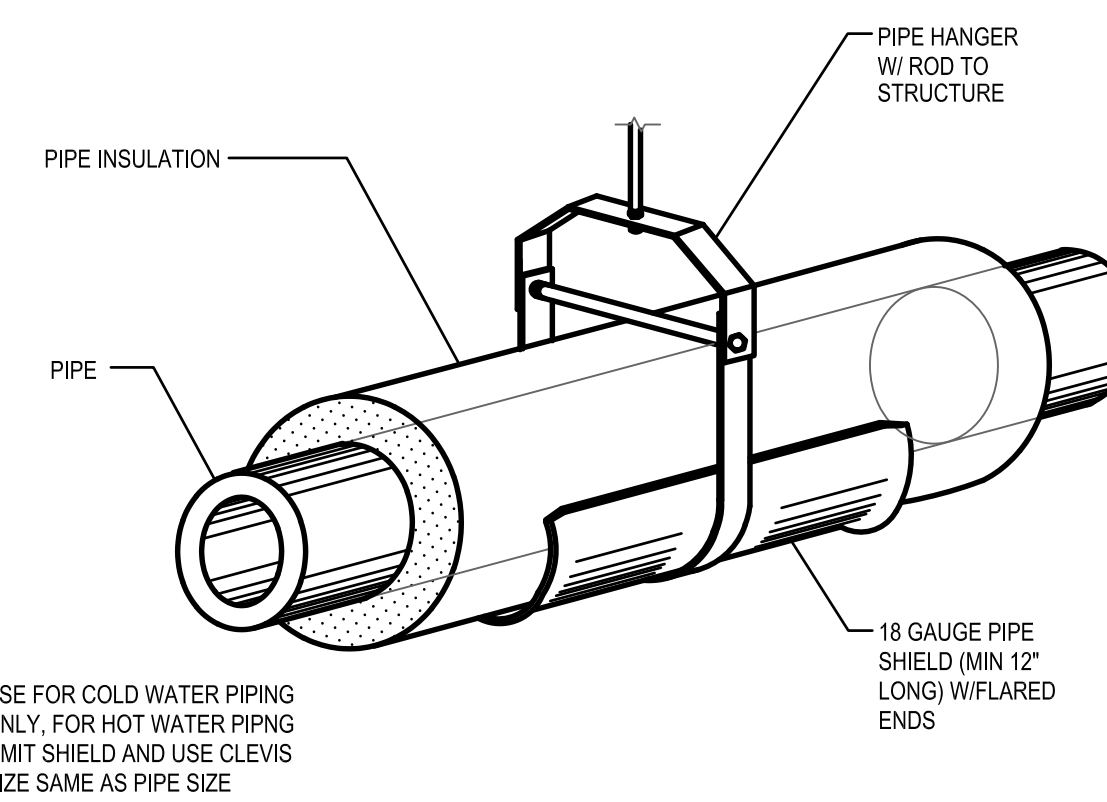
8 REFRIGERANT PIPING SCHEMATIC
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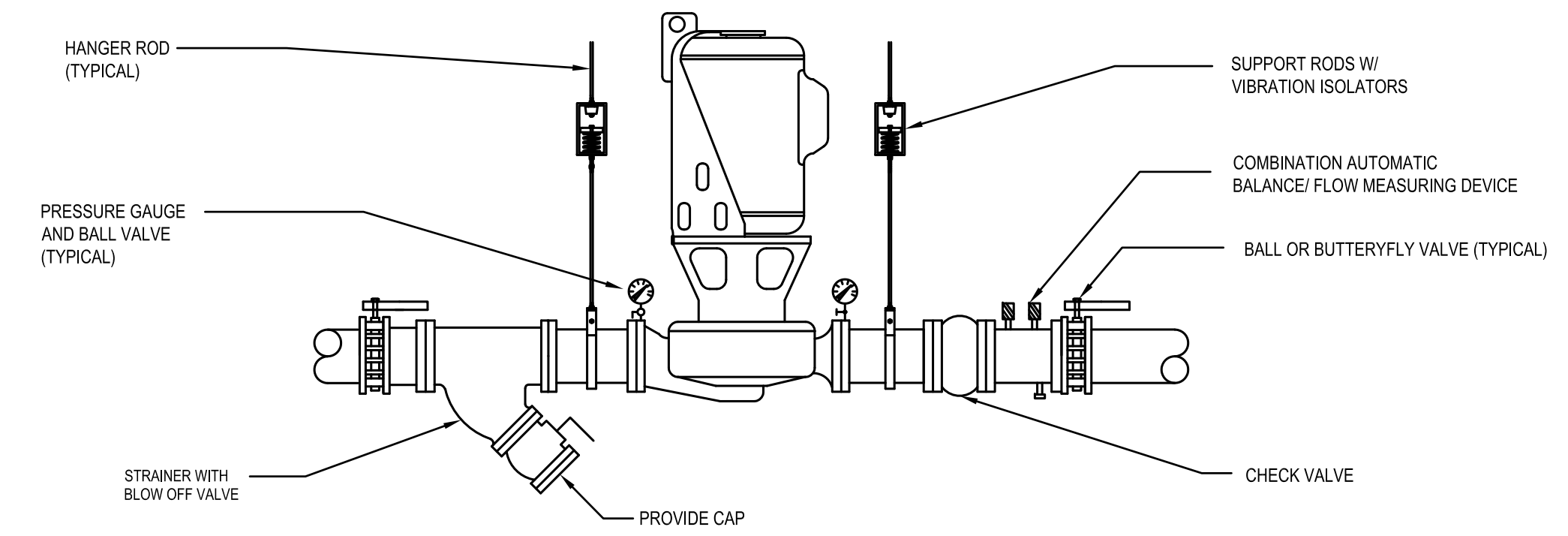
6 INLINE PUMP DETAIL
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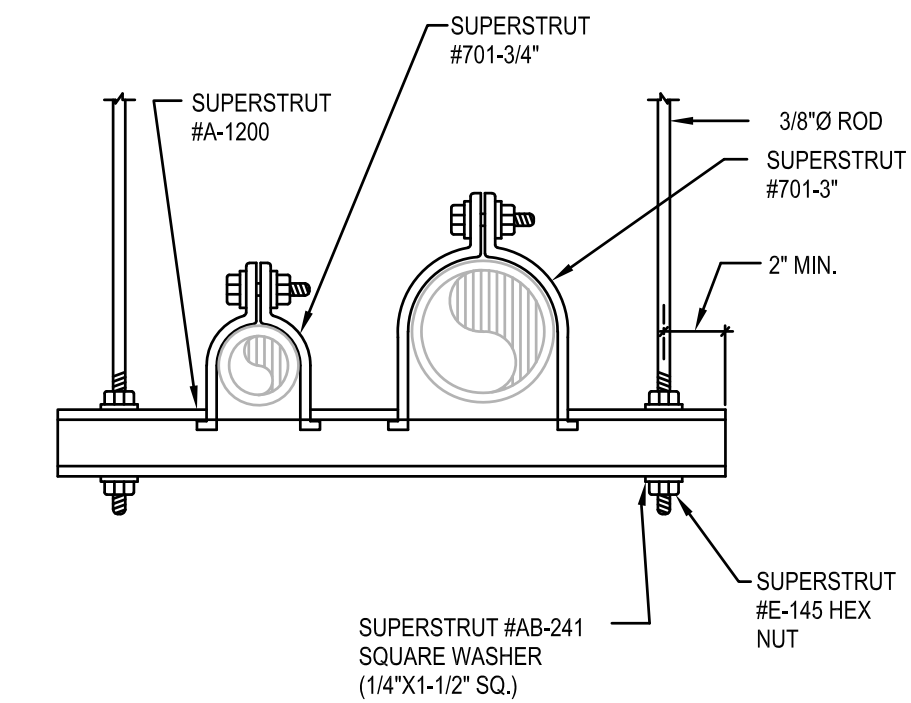
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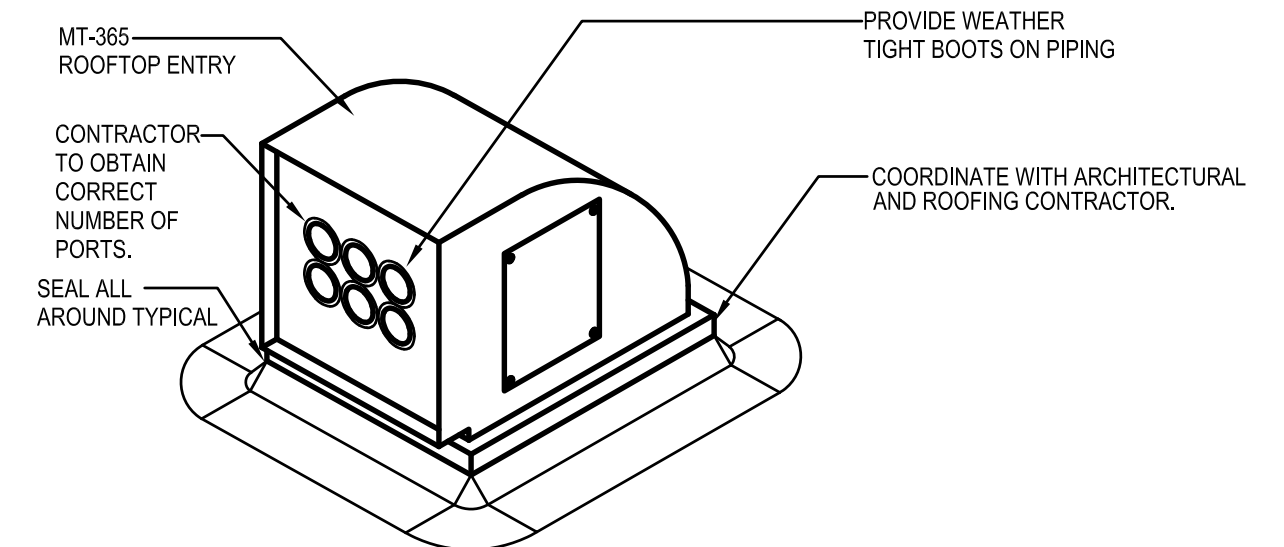
5 TYPICAL PIPE HANGER DETAIL
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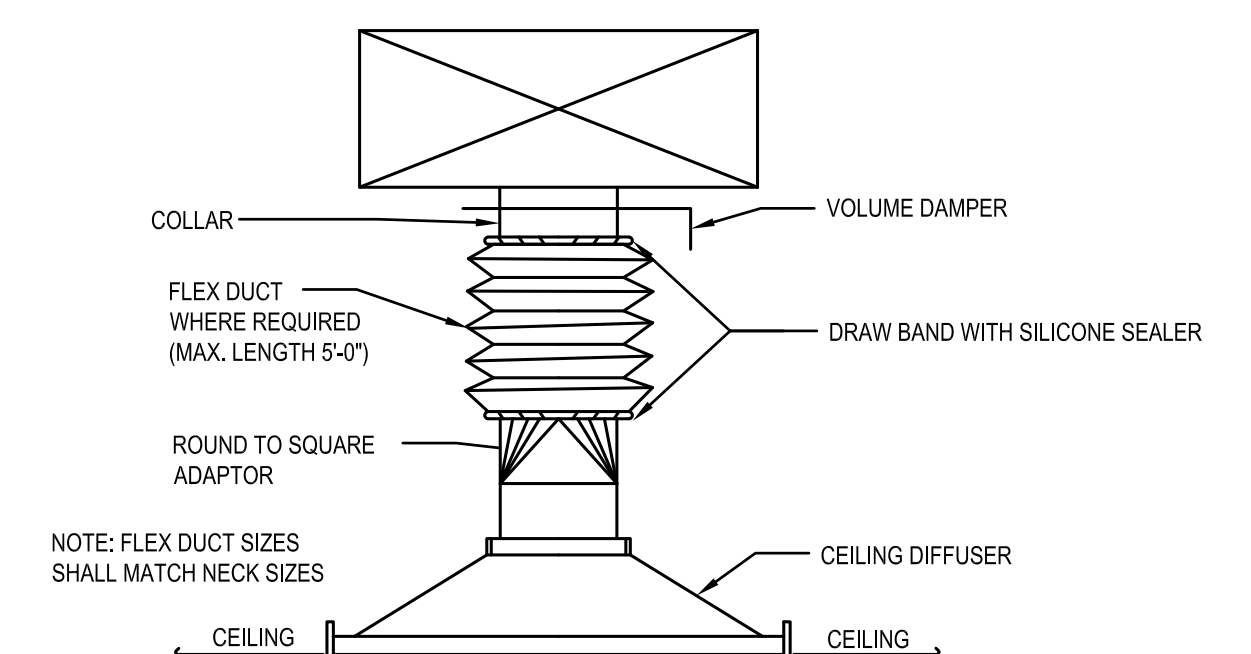
4 INLINE PUMP DETAIL
SCALE: NTS



3 TRAPEEZE PIPE HANGING DETAIL
SCALE: NTS



2 REFRIGERANT PIPING ROOF ENCLOSURE
SCALE: NTS



1 TYPICAL DIFFUSER CONNECTION
SCALE: NTS

EXHAUST FAN SCHEDULE														
TAG	MFR	MODEL	TYPE	CFM	STATIC PRESS (IN. WG.)	FAN RPM	ELECTRICAL				WEIGHT (LBS)	SONES	INTERLOCKED WITH	REMARKS
							VOLTS	PHASE	HP (WATTS)	AMPS				
EF-1	GREENHECK	SP-A90	CEILING	75	.25	877	115	1	(14)	.17	20	4	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-2	GREENHECK	SP-A90	CEILING	75	.25	877	115	1	(14)	.17	20	4	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-3	GREENHECK	SQ-70-VG	CABINET	100	.375	1605	115	1	1/15	1.3	34	4.2	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-4	GREENHECK	SP-B150	CEILING	150	.5	1050	115	1	(128)	1.8	10	3.5	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-5	GREENHECK	SP-LP0511	CEILING	100	.5	939	115	1	(22)	.29	40	2	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-6	GREENHECK	G-099-VG	ROOF	675	1	1636	115	1	1/4	2.85	70	10.6	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-7	GREENHECK	CSP-A390	CABINET	250	.934	1350	115	1	(112)	1.42	50	4.5	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-8	GREENHECK	CSP-A250	CABINET	105	.82	1000	115	1	(54)	.56	50	2	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-9	GREENHECK	CSP-A250	CABINET	105	.82	1000	115	1	(54)	.56	50	2	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-10	GREENHECK	CSP-A250	CABINET	105	.82	1000	115	1	(54)	.56	50	2	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-11	GREENHECK	G-099-VG	CABINET	525	1	1567	115	1	1/4	2.85	70	9.5	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-12	GREENHECK	G-098-VG	CABINET	100	1	1720	115	1	1/4	2.85	60	10.6	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-13	GREENHECK	CSP-A410	CABINET	225	.5	1000	115	1	(112)	1.7	64	2	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-14	GREENHECK	CSP-A200	CABINET	110	.6	825	115	1	(118)	.46	51	1.4	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-15	GREENHECK	CSP-A200	CABINET	150	.5	825	115	1	(125)	.46	43	1.1	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-16	GREENHECK	CSP-A200	CABINET	150	.5	825	115	1	(125)	.46	43	1.1	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-17	GREENHECK	CSP-A250	CABINET	140	.72	1000	115	1	(56)	.56	27	2.5	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-18	GREENHECK	CUE-090-VG	ROOF	540	.5	1595	115	1	1/10	1.5	83	7.7	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-19	GREENHECK	SQ-87-VG	CABINET	150	.5	1398	115	1	1/4	3.6	55	9.6	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
EF-20	GREENHECK	SP-LP0810W	CABINET	50	.372	714	115	1	(9)	.29	10	1.2	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-21	GREENHECK	SP-LP0810W	CABINET	50	.372	714	115	1	(9)	.29	10	1.2	INTERLOCK WITH OCCUPANCY SENSOR	1,2,3,4,5,6,7,8
EF-22	GREENHECK	G-120-VG	ROOF	490	.5	1069	115	1	1/4	2.85	75	7.1	SPEED CONTROL BMS	1,2,3,4,5,6,7,8
REMARKS: 1. PROVIDE WITH FACTORY WIRED DISCONNECT, GRAVITY BACKDRAFT DAMPER AND BRICK VENT. 2. FAN INTERLOCKS INDICATED ABOVE SHALL BE WIRED UNDER DIVISION 26. 3. UNLESS NOTED OTHERWISE, MOUNT SPEED CONTROL SWITCH NEXT TO UNIT FOR BALANCING PURPOSES. 4. TRANSITION DUCTWORK ON INLET AND OUTLET OF EACH FAN TO MATCH SIZES SHOWN ON PLANS. 5. CAPACITIES LISTED ARE WITH UTILIZING FAN SPEED CONTROLLER, NOT THE MAXIMUM CAPACITY. 6. PROVIDE WITH GREASE BOX AND VAV PACKAGE WITH MANUAL CONTROL, (VFD INCLUDED), VENTED CURB ASSEMBLY, UL705, UL 762 AND UL S645 LISTED. 7. PROVIDE WITH WEATHERPROOF DISCONNECT AND LISTED VENTED CURB ASSEMBLY. 8. FAN IS ALL ALUMINUM CONSTRUCTION, NEMA-3 DISCONNECT, PROVIDE WITH 16" ROOF CURB, ALUMINUM BIRDSCREEN.														

DESTRATIFICATION FAN SCHEDULE

TAG	MFR	MODEL	TYPE	CFM	STATIC PRESS (IN. WG.)	FAN RPM	ELECTRICAL				dBa	INTERLOCKED WITH	REMARKS
							VOLTS	PHASE	HP (WATTS)	AMPS			
DSF-1,2,3,4,5,6,7	AIR-ROW	LA-248	CEILING	575	-	1500	115	1	(23)	.42	58	BMS	1,2,3,4,5,6
REMARKS: 1. PROVIDE WITH 3-PRONG PLUG. 2. FURNISH AND INSTALL WITH AIR-SWITCH ENVIROSTAT (WALL CONTROL) DUAL FUNCTIONING FAN CONTROLLER. 3. FURNISH AND INSTALL WITH BMS CONNECTIVITY VIA 0-10VDC RELAY SYSTEM. 4. FURNISH AND INSTALL SEISMIC RESTRAINT CABLES. 5. FURNISH AND INSTALL WITH ECM FAN. 6. CONTRACTOR TO VERIFY WITH MFR FOR SPACING AND LAYOUT. COORDINATE WITH WORK OF OTHERS AND EXISTING CONDITIONS.													

KITCHEN MAKE UP AIR UNIT

UNIT NO.	MANUFACTURER	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	SONES	BURNER EFFICIENCY(%)	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	NOTE
MUA-1	ECON-AIR	EAZ-D250-20D	20MF-2-MOD	A2-D250	2000	2350	1.00	1258	1.5	1.055	3	208	6.5	10.3	92	158100	145452	58.0F	7 in. w.c. - 14 in. w.c.	Natural	1,2,3,4,5,6,7,8
REMARKS: 1. AC INTERLOCK RELAY - 24VAC COIL. 2. MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING. 3. LOW FIRE START AND MOTORIZED DAMPER ON SUPPLY DISCHARGE. 4. INLET PRESSURE GAUGE, 0-3" 5. MANIFOLD PRESSURE GAUGE, 5 TO 15" WC. 6. VAV PACKAGE W/ MANUAL CONTROL (VFD INCLUDED). 7. VFD FACTORY MOUNTED AND WIRED IN COMMERCIAL CONTROL VESTIBULE FOR TEMPERED SUPPLY FAN. 8. PROVIDE WITH 20" CURBS.																					

KITCHEN EXHAUST FAN

TAG	MFR.	MODEL	TYPE	CFM	STATIC PRESS (IN. WG.)	FAN RPM	ELECTRICAL					SONES	REMARKS
							VOLTS	PHASE	HP (WATTS)	BHP (WATTS)	FLA AMPS		
KEF-1	ECON-AIR	EADU180H	ROOF	2585	.75	1010	208	3	1.00	.741	3.9	11.6	1,2,3,4,5
REMARKS: 1. PROVIDE WITH GREASE CURBS, GREASE BOX EXHAUST FAN HEAT BAFFLES. 2. PROVIDE WITH HINGED, VENTED, CURRENT UL LISTED CURB. 3. PROVIDE WITH FACTORY MOUNTED DISCONNECT. PROVIDE WITH VFD'S WITH BY-PASS, UL762 UPBLAST KITCHEN EXHAUST FAN MANUFACTURER BY CAPTIVEAIRE. 4. PROVIDE WITH 20" CURBS. 5. PROVIDE WITH VARIABLE SPEED EXHAUST SYSTEM.													

ELECTRIC DUCT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	NOMINAL CFM	ELECTRICAL V/Ø/Hz	ELECTRIC HEAT					
					CAPACITY (KW)	TEMPERATURE RISE (°F)	FLA	MCA	MOPD	REMARKS
EDH-1	RENEWAIRE	EK-121206SCCHR-23-1SV-N	565	208/3Ø	6.0	31.5	16.65	20.81	25	1,2,3,4,5,6
REMARKS: 1. OPEN COIL ELEMENT 2. CONTROL TERMINAL BOARD 3. GROUNDING LUGS 4. AUTOMATIC LIMIT SWITCH 5. DISCONNECT SWITCH 6. SCR RELAY AND AIRFLOW SWITCH										

HYDRONIC PUMP SCHEDULE

TAG	TYPE	MFR	GPM	FT HEAD	HP	RPM	ELECTRICAL			SERVICE	FLUID	MODEL	NOTES
							VOLTAGE	PHASE	HERTZ				
P-1	INLINE	TACO	305	60	10	1760	208-230	3	60	SYSTEM PUMP	HOT WATER	SKV4008D	1,2,3,4,5,6
P-2	INLINE	TACO	305	60	10	1760	208-230	3	60	SYSTEM PUMP	HOT WATER	SKV4008D	1,2,3,4,5,6
BP-1	INLINE	TACO	243	25	3	1760	208-230	3	60	SYSTEM PUMP	HOT WATER	SKV4007D	1,2,3,4,5
BP-2	INLINE	TACO	243	25	3	1760	208-230	3	60	SYSTEM PUMP	HOT WATER	SKV4007D	1,2,3,4,5
REMARKS: 1. PROVIDE DRAIN BASE, SUCTION DIFFUSER AND FULL SIZE CONNECTION ON INLET AND OUTLET OF PUMP. 2. PROVIDE GAUGE TAPS ON INLET AND DISCHARGE FLANGES. PROVIDE WITH FACTORY INSTALLED DISCONNECTS. 3. PROVIDE FRAMING FOR PUMPS. PROVIDE WITH VFD'S. 4. BASED ON TACO. 5. PROVIDE WITH TACO SELF SENSING MODULATING PUMP CONTROLLER FOR EACH SYSTEM. 6. FURNISH AND INSTALL 6" BOILER MAG XT, MAGNETIC FILTER AND AUTOMATIC AIR VENT.													

AIR OUTLET SIZE AND PERFORMANCE SCHEDULE

TYPE 'X' - CEILING OUTLETS-SUPPLY			TYPE 'C' AND 'E' EXHAUST / RETURN OUTLETS (DUCTED)			TYPE 'B' - SLOT DIFFUSER OUTLETS-SUPPLY			TYPE 'D' - TRANSFER CEILING OUTLETS AND DUCTED RETURN OUTLETS		
CFM	NECK SIZE	MAX NC	CFM	NECK SIZE	MAX NC	CFM/LIN. FT	# OF SLOTS	NECK SIZE	MAX NC	CFM	NECK SIZE
0-120	8"	20	0-95	8 x 6	20	20-43	2	4	20	0-110	8 x 8
125-275	8"	20	100-190	10 x 6	22	44-61	3	6	20	120-280	12 x 12
280-370	10"	20	205-210	14 x 6	20	62-80(1)	4	7	22	280-400	14 x 14
375-410	12"	20	215-340	14 x 10	20	81-90	5	9	20	410-750	18 x 18
415-530	14"	20	345-430	18 x 10	20					760-1200	22 x 22
535-680	16"	20	435-530	24 x 10	20						
685-1180	21 x 21	20	535-650	30 x 10	20						
			655-850	22 x 22	20						
			875-1400	24 x 24	25						

AIR OUTLET TYPE SCHEDULE

TAG	MANUFACTURER	MODEL NO.	OUTLET TYPE DIFFUSERS	SIZE	MATERIAL	CFM RANGE	SP (IN. WG.)	REMARKS
A	TITUS	TDCA	SQUARE-CLG	PER SCHEDULE	STEEL	PER SCHEDULE	.1 MAX	1,3
B		ML-38	SLOT DIFFUSER-CLG	PER SCHEDULE	STEEL	PER SCHEDULE	.1 MAX	1,2,4
C		50 F	CLG GRILLE	PER SCHEDULE	ALUMINUM	PER SCHEDULE	.1 MAX	1,5
D		50 F	WALL GRILLE	PER SCHEDULE	ALUMINUM	PER SCHEDULE	.1 MAX	1,5
E		355 RL	WALL EXHAUST REGISTER	PER SCHEDULE	ALUMINUM	PER SCHEDULE	.1 MAX	1,6
REMARKS: 1. PROVIDE DUCT MOUNTED BALANCING DAMPER. 2. PROVIDE INSULATED PLENUM. 3. SQUARE FACE COVERED WITH REMOVABLE CORE AND 24X24 LAY-IN BORDER, FINISH FACE ROUND INLET W/ ADJUSTABLE DISCHARGE. 4. 3/4" WIDE SLOTS - ADJUSTABLE THROW. 5. PLENUM RETURN AIR NON-DUCTED, OR DUCTED TRANSFER GRILLE. 6. DUCTED RETURN OR EXHAUST 7. DUCTED SUPPLY.								
NOTES: MAXIMUM FLEXIBLE CONNECTOR LENGTH SHALL BE 5 FEET. EXTEND RIGID DUCT AS REQUIRED. USE ABOVE SIZES UNLESS OTHERWISE NOTED.								

HYDRAULIC SEPARATORS SCHEDULE

TAG	MANUFACTURER MODEL NUMBER	DIA (INCH)	HEIGHT (INCH)	OPTIMUM FLOW GPM	SYSTEM SERVED	NOTE
HS-1	SPIRO VENT QUAD	26	61	370	HEATING	1,2
REMARKS: 1. PROVIDE WITH AIR VENT 2. PROVIDE WITH BLOWDOWN VALVE AND FLUSH VALVE.						

CONDENSING NATURAL GAS BOILER SCHEDULE

TAG	MAXIMUM INPUT MBTU/H	MAXIMUM OUTPUT MBTU/H	SUPPLY WATER TEMP DEG. F	RETURN WATER TEMP DEG. F	BURNER		ELECTRICAL	THERMAL EFFICIENCY	MFR / MODEL	NOTES
					GAS PRESS	TURNDOWN RATIO				
B-1	2500	2425	180	160	3.5"-14"	10:1	DIRECT SPARK	240/480-3	97%	PATTERSON-KELLEY P-K STORM ST-2500
B-2	2500	2425	180	160	3.5"-14"	10:1	DIRECT SPARK	240/480-3	97%	PATTERSON-KELLEY P-K STORM ST-2500
REMARKS: 1. CONTRACTOR SHALL PROVIDE STAINLESS STEEL FLUE MATERIAL. 2. FURNISH AND INSTALL WITH FACTORY BOILER MANAGEMENT SYSTEM WITH BACNET COMPATIBILITY. 3. FURNISH AND INSTALL WITH BOILER SUPPLIED ISOLATION KIT. 4. FURNISH AND INSTALL WITH BACNET PROTOCOL CONTROLS CONVERTER. 5. FURNISH AND INSTALL WITH CONDENSATE NEUTRALIZATION TANK SYSTEM AND @30' OF 1" PVC PIPE, WITH BACK FLOW PREVENTOR RUN DRAIN TO NEAREST APPROVED DRAIN CONNECTION. DRAIN PIPE TO BE RUN UNDERNEATH AND TIGHT TO PLATFORM WITH REQUIRED PITCH. 6. CONTRACTOR SHALL FURNISH AND INSTALL MOTORIZED COMBUSTION AIR DAMPER IN EACH COMBUSTION AIR DUCT. INTERLOCK WITH BOILER										

AIR COOLED CONDENSING UNIT

TAG	ASSOCIATED	MFR.	MODEL NO.	AMBIENT AIR TEMP (°F)	UNIT TONNAGE	ELECTRICAL DATA			NOTES
						VOLTS/PH	MCA/ MOP	COMPRESSOR 1 / 2 RLA (A)	
CJ-AHU-1	AHU-1	TRANE	TWA180K4DAA	95	15	460/Ø3	33.00/ 40.00	11.90 / 11.90	1,2,3,4
CJ-AHU-2	AHU-2	TRANE	TWA240K4DAA	95	20	460/Ø3	46.00/ 60.00	17.80 / 17.80	1,2,3,4
CJ-AHU-3	AHU-3	TRANE	TWA090K4AAA	95	7.5	460/Ø3	17.00/ 25.00	11.30 / 0.00	1,2,3,4
CJ-AHU-4	AHU-4	TRANE	TWA072K4DAA	95	6	460/Ø3	17.00/ 20.00	6.70 / 5.90	1,2,3,4
REMARKS: 1. PROVIDE WITH AUTO-RESET, HIGH AND LOW PRESSURE CONTROLS. REFRIGERANT WILL BE R-454B. 2. PROVIDE WITH PAINTED STEEL CABINET AND HEAVY DUTY STEEL RAIED BEDS WITH 1-1/2" LEGS. 3. MFR. TO PROVIDE WITH LIQUID LINE DRYER AND SIGHT GLASS. 4. ALL UNITS SHALL HAVE DIGITAL SCROLL COMPRESSORS AND HOT GAS REHEAT.									

AIR SEPARATORS SCHEDULE

TAG

DEDICATED OUTSIDE AIR DEHUMIDIFICATION UNIT SCHEDULE

TAG	MFG	MODEL	SUPPLY AIR FANS					EXHAUST AIR FAN					ELECTRICAL			DX COIL							HEATING PERFORMANCE (HEAT PUMP)				HEATING PERFORMANCE (GAS FURNACE)					ENERGY RECOVERY WHEEL (SUMMER)																					
			NOMINAL CFM	SP (IN WG)		QTY	BHP EACH	HP EACH	NOMINAL CFM	SP (IN WG)		QTY	BHP EACH	HP EACH	V/PHZ	MCA	FLA	MFS	CAPACITY		ENT AIR EAT db/wb	LVG AIR LAT db/wb	LAT-REHEAT db/wb	LAT-UNIT db/wb	EVAP-FACE AREA SQUARE FEET	MAX APO (IN/WG.)	CAPACITY MBH	EAT db (°F)	LAT db (°F)	AMBIANT AIR db	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	EAT db (°F)	LAT db (°F)	MAX APO (IN/WG.)	VENTILATION SUPPLY				OUTSIDE AIR SUPPLY				RETURN AIR				EXHAUST AIR				WEIGHTS (LBS)	NOTES
				TSP	ESP					TSP	ESP								TOTAL (MBH)	SENS (MBH)																AIRFLOW (CFM)	db (°F)	wb (°F)	PD (IN WG)	AIRFLOW (CFM)	db (°F)	wb (°F)	ESP (IN WG)	AIR FLOW (CFM)	db (°F)	wb (°F)	ERV PD (IN WG)						
DOAS-1	TRANE	HORIZON HEAT PUMP-QAN-360	6,500	3.82	2.00	1	5.66	7.5	6,500	2.37	1	1	4.23	7.5	460/360	166.3	160.7	175	318.4	211	80/67	50/50	70/58	72/59	22.1	0.27	214	52.3	79.3	8	79 KW	-	52.3	90.7	.02	6,500	80.4	67.1	1.11	6,853	95	74	6,500	75	64	1.0	6,853	89.2	71.3	1.11	8,500	1.2,3,4, 5,6,7,9	
DOAS-2	TRANE	HORIZON HEAT PUMP-QAB-Q48	900	2.45	1.5	1	0.55	2	900	1.78	1.0	1	0.42	2	460/360	18.6	16.7	25	41.8	27.7	78/66	50/50	70/58	71/58	3.51	0.15	25.9	58.6	83	8	50	40	58.6	99.6	.08	900	78.4	66	58	1,040	95	74	900	75	64	1.0	1,040	91.4	72.4	58	2,200	1.2,3,4, 5,6,7,9	
DOAS-3	TRANE	HORIZON HEAT PUMP-QAB-Q48	900	2.45	1.5	1	0.55	2	900	1.78	1.0	1	0.42	2	460/360	18.6	16.7	25	41.8	27.7	78/66	50/50	70/58	71/58	3.51	0.15	25.9	58.6	83	8	50	40	58.6	99.6	.08	900	78.4	66	58	1,040	95	74	900	75	64	1.0	1,040	91.4	72.4	58	2,200	1.2,3,4, 5,6,7,9	
DOAS-4	TRANE	HORIZON HEAT PUMP-QADM-360	8,430	3.8	2.0	1	6.76	7.5	7,432	2.20	1	1	5.08	7.5	460/360	204.7	197.8	225	421.0	252.0	80/67	50/50	70/58	72/59	23.6	0.36	282.9	52.8	80.0	8	111	-	52.8	94.4	.04	8,430	80.0	67.0	1.04	8,805	95	74	8,430	75	64	1.0	8,805	89.9	71.4	1.04	8,500	1.2,3,4, 5,6,7,8,9	

- NOTES:
1. BASED ON TRANE. REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MFGS.
2. UNITS SHALL HAVE ENERGY WHEELS.
3. UNIT CONTROLS SHALL BE PROVIDED BY UNIT MANUFACTURER. REFER TO SPEC SECTION 23800.
4. FURNISH UNITS WITH SINGLE POINT POWER CONNECTION.
5. FURNISH WITH VFD AND DISCONNECT SWITCH PROVIDE WITH HOT GAS RE-HEAT.
6. VFD SHALL BE PROVIDED AND INSTALLED FROM THE MANUFACTURER.
7. PROVIDE WITH INDOOR CONDENSATE DRAIN WITH AN AIR GAP.
8. CONTRACTOR SHALL FURNISH AND INSTALL DRAINAGE FOR UNIT.
9. ALL UNITS SHALL HAVE DIGITAL SCROLL COMPRESSOR AND HOT GAS RE-HEAT.

DEDICATED OUTSIDE AIR DEHUMIDIFICATION UNIT SCHEDULE

TAG	ENERGY RECOVERY WHEEL (WINTER)										SUMMER WHEEL RATING (MBH)			WINTER WHEEL RATING (MBH)		
	VENTILATION SUPPLY				OUTSIDE AIR SUPPLY			RETURN AIR			EXHAUST AIR			TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY
	AIR FLOW (CFM)	db (°F)	wb (°F)	PD (IN WG)	AIR FLOW (CFM)	db (°F)	wb (°F)	AIR FLOW (CFM)	db (°F)	wb (°F)	ESP (IN WG)	AIR FLOW (CFM)	db (°F)	wb (°F)	ERV PD (IN WG)	

DOAS-1	6,500	52.3	46.5	1.11	6,853	8	8	6,500	70	58	1.0	6,853	27.1	27.1	1.11	164.04	98.24	65.8	441.16	305.38	135.78
DOAS-2	900	58.6	50.7	.58	1,040	8	8	900	70	58	1.0	1,040	21.3	21.1	.58	26.19	15.67	10.52	70.15	48.42	21.73
DOAS-3	900	58.6	50.7	.58	1,040	8	8	900	70	58	1.0	1,040	21.3	21.1	.58	26.19	15.67	10.52	70.15	48.42	21.73
DOAS-4	8,432	52.8	46.9	1.04	8,505	8	8	8,432	70	58	1.0	8,505	26.7	26.5	1.04	216.09	129.35	86.7	580.9	401.85	179.04

AIR HANDLING UNIT SCHEDULE

TAG	SUPPLY FAN					MIN OUTSIDE AIR (CFM)	COOLING					ELECTRICAL		HEAT PUMP MODE		HEATING							MFG	MODEL	FILTERS	NOTES		
	TOTAL (CFM)	ESP (in H2O)		TSP (in H2O)	HP		CAPACITY		EAT db (°F)	EAT wb (°F)	LAT db (°F)	LAT wb (°F)	AMBIENT (°F)	VOLTS/Ø	FLA	EAT db (°F)	LAT db (°F)	HEATING CAPACITY (MBH)	EAT db (°F)	LAT db (°F)	EWT db (°F)	LWT db (°F)					WPD db (°F)	GPM
AHU-1	11093	1.50	3.74	7.50	5.77	2220	356.58	263.10	78.00	65.00	56.38	54.34	95	460/603	21.22	65.00	91.05	290.00	45.00	69.11	180.00	121.13	0.76	9.86	TRANE	UCCAG21	2" PLEATED MERV 8	1,2,3,4,5,6
AHU-2	2900	1.50	2.79	3.00	1.84	580	221.70	127.85	91.00	74.00	50.75	50.33	95	460/603	5.02	---	---	257.89	8.00	90.00	180.00	152.39	4.26	18.66	TRANE	UCCAG10	2" PLEATED MERV 8	1,2,3,4,5,6
AHU-3	1200	1.50	2.38	1.5	0.77	1015	88.99	51.67	91.00	74.00	51.70	51.23	95	460/603	3.62	---	---	106.71	8.00	90.00	180.00	152.59	0.87	7.78	TRANE	UCCAG06	2" PLEATED MERV 8	1,2,3,4,5,6
AHU-4	2000	1.50	2.57	2.0	1.34	1830	144.20	84.38	91.00	74.00	52.51	52.03	95	460/603	3.62	---	---	177.86	8.00	90.00	180.00	166.49	7.23	26.28	TRANE	UCCAG08	2" PLEATED MERV 8	1,2,3,4,5,6

- NOTES:
1. BASED ON TRANE. REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MFGS.
2. CONTRACTOR TO CONFIRM THAT UNITS ARE TO BE FURNISHED IN EITHER DOWNFLOW OR SIDE DISCHARGE CONFIGURATION. UNIT SHALL BE PROVIDED WITH VIBRATION ISOLATED CURBS, ECONOMIZER AND BAROMETRIC RELIEF. DEMAND CONTROL VENTILATION. UNIT MOUNTED CIRCUIT BREAKER, POWERED CONVENIENCE OUTLET, BAC-TALK COMMUNICATIONS INTERFACE, FREEZE-STAT, CLOGGED FILTER SWITCH, FAN FAILURE SWITCH. DUCT MOUNTED SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-72 REQUIREMENTS. PROVIDE WITH VFD PER ELECTRICAL REQUIREMENTS. CONTRACTOR SHALL PROVIDE DUCT MOUNTED STATIC PRESSURE SENSORS FOR VFD OPERATION. PROVIDE WITH HOT GAS RE-HEAT.
3. PROVIDE WITH HANGING SECTION WITH HANGING DAMPERS FOR RETURN AIR AND OUTSIDE AIR.
4. MECHANICAL CONTRACTOR TO PROVIDE VFD DRIVES AND AIR VENTS ON THE HEATING AND COOLING COILS. COORDINATE WITH ELECTRICAL CONTRACTOR.
5. MECHANICAL CONTRACTOR TO INSTALL DUCT SMOKE DETECTORS. COORDINATE WITH ELECTRICAL CONTRACTOR.
6. UNITS ARE TO BE FACTORY PROVIDED WITH DESIGN SPECIALS FOR HOT GAS RE-HEAT COILS.

PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE

TAG	SUPPLY FAN			MIN OUTSIDE AIR (CFM)	COOLING			ELECTRICAL			ELECTRIC HEATING			HEAT PUMP			MFG MODEL	NOTES	
	TOTAL (CFM)	TSP	HP		CAPACITY		EAT db/wb (°F)	AMBIENT (°F)	VOLTSØ	MCA	MCCP	INPUT CAPACITY (KW)	EAT db (°F)	LAT db (°F)	CAPACITY (MBH)	EAT db (°F)			LAT db (°F)
					TOTAL (MBH)	SENS (MBH)													
RTU-1	7305	2.0	5.0		250	195	76.8	93	4803	146	150	72	59.3	86.4	117.1	58.2	74.8	TRANE WAL500A	1,2,3,4

- REMARKS:
1. BASED ON TRANE REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MFGS.
2. CONTRACTOR TO CONFIRM THAT UNITS ARE TO BE FURNISHED IN EITHER DOWNFLOW OR SIDE DISCHARGE CONFIGURATION. UNIT SHALL BE PROVIDED WITH VIBRATION ISOLATED CURBS, ECONOMIZER AND BAROMETRIC RELIEF. DEMAND CONTROL VENTILATION. UNIT MOUNTED CIRCUIT BREAKER, POWERED CONVENIENCE OUTLET, BAC-TALK COMMUNICATIONS INTERFACE, FREEZE-STAT, CLOGGED FILTER SWITCH, FAN FAILURE SWITCH. DUCT MOUNTED SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH PA-72 REQUIREMENTS. PROVIDE WITH VFD PER ELECTRICAL REQUIREMENTS. CONTRACTOR SHALL PROVIDE DUCT MOUNTED STATIC PRESSURE SENSORS FOR VFD OPERATION. PROVIDE WITH HOT GAS RE-HEAT.
3. PROVIDE WITH MIXING SECTION AND MOTORIZED DAMPERS FOR RETURN AIR AND OUTSIDE AIR.
4. UNITS ARE TO BE FACTORY PROVIDED WITH DESIGN SPECIALS FOR HOT GAS RE-HEAT COILS.

ELECTRIC CONVECTOR SCHEDULE

TAG	MANUFACTURER	MODEL	ELECTRICAL V/Ø/Hz	ELECTRIC HEAT			REMARKS
				CAPACITY (KW)	TEMPERATURE RISE (°F)	AMPS	

ECUH -1	KING-ELECTRIC	KCC4-2050	208/3/60	5.0	37	13.9	1,2,3,4,5
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- NOTES:
1. ALL UNITS SHALL BE INTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION.
2. PROVIDE WITH FACTORY OPTIONS FOR THERMOSTAT AND DISCONNECT.
3. FURNISH WITH SINGLE POINT POWER CONNECTION.
4. PROVIDE WITH 48" LONG SUB BASE, 2" TALL, 3" DEEP FOR FLOOR MOUNTING.
5. BASED ON KING-ELECTRIC. REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MFGS.

ELECTRIC UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	NOMINAL CFM	ELECTRICAL V/Ø/Hz	ELECTRIC HEAT			REMARKS
					CAPACITY (KW)	TEMPERATURE RISE (°F)	AMPS	

EUH -1	KING-ELECTRIC	KB4803-3MP-B2	400	208/3/60	3.0	37	6.3	1,2,3,4,5
EUH -2	KING-ELECTRIC	KB4803-3MP-B2	400	208/3/60	3.0	37	6.3	1,2,3,4,5
EUH -3	KING-ELECTRIC	KB4803-3MP-B2	400	208/3/60	3.0	37	6.3	1,2,3,4,5

- NOTES:
1. ALL UNITS SHALL BE INTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION.
2. PROVIDE WITH FACTORY OPTIONS FOR THERMOSTAT AND DISCONNECT.
3. FURNISH WITH SINGLE POINT POWER CONNECTION.
4. PROVIDE WITH WALL HANGING BRACKET.
5. BASED ON KING ELECTRIC. REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MFGS.



ADDITION & ALTERATIONS TO:
Old Greenwich School
285 SOUND BEACH AVENUE
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