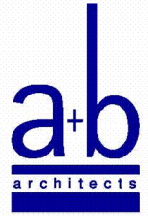


P.O. Box 665 – 117 West Main Street
Hahira, GA 31632

Phone: 229-585-9018

E-mail:

mail@altmanbarrettarchitects.com



Letter of Transmittal

TO: Plan Holders

FROM: Keith Barrett

DATE: April 9, 2021

SUBJECT: Addendum 1

G.W. Carver Freshman Facility
Kitchen and Toilet Renovations
For
Coffee County Schools

WE ARE SENDING YOU:

- ☐ Enclosed
- ☐ Prints
- ☐ Change order

17 Pages via EMAIL (including cover)

- ☐ Specifications

ENCLOSED:

<u>COPIES</u>	<u>DATE</u>	<u>DESCRIPTION</u>
1	4/9/2021	Addendum 1

Transmitted as checked below:

- | | |
|---|--|
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> No exceptions taken |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Exceptions noted |
| <input type="checkbox"/> For your information | <input type="checkbox"/> Resubmit |
| <input type="checkbox"/> For review & comment | |

REMARKS:

COPY : A+B File 19037 / A-1

[M:\19037 G W Carver Freshman Facility Toilet Kitchen Ren\Addendum\Add 1\Transmittal Add 1.doc]

**G.W. Carver Freshman Facility
Kitchen and Toilet Renovations
For
Coffee County Schools**



ADDENDUM NO. 1
April 9, 2021

REVISIONS TO THE SPECIFICATIONS:

1. Section 002113 Supplementary Conditions: Delete pages 65 through 69.
2. Section 002215 Supplementary Conditions: Add attached Section 002215 Supplementary Conditions.
3. Section 004321 Allowance Form: Add attached Section 004321 Allowance Form.
4. Section 012100 Allowances: Add attached Section 012100 Allowances.
5. Section 233423 HVAC Power Ventilators: Part 2, 2.1 Centrifugal Roof Ventilators A. Add "6. Greasemaster."
6. Section 237433 Dedicated Outdoor- Air Units: Part 2, 2.1 A. Add "4. Greasemaster."

REVISIONS TO THE DRAWINGS:

7. Sheet A1001:
 1. At Detail A/A1001:
 - i. At 4 Louvers to be removed, add note "remove existing EFIS wall and studs."
 - ii. At stage, add note "Remove two Risers across stage."
 - iii. At space 5010-109 Mechanical, add note "Remove window. Similar to window in Dry Storage 5010-105. Window is approximately 36" tall by 48" wide."
 - iv. At Stage add note "Remove three adjustable can lights."
8. Sheet A1002:
 1. At Demolition Notes: Delete in its entirety and replace with below.
 - i. 1. Prep existing base and tile to accept new seamless epoxy floor and base.
 - ii. 2. Remove existing Plumbing fixtures.
 - iii. 3. Remove existing Toilet Partitions.
 - iv. 4. Remove Block Partition.
 2. At Detail B/A1002 delete toilet in Jan 103.
9. Sheet A2001:
 1. At Detail A/A2001:
 - i. At stage, add note "Install two Risers across stage, color black. Existing tread to remain."
 - ii. At four Windows to be replaced add note "Install new wall infill per Infill Section Detail A/2001. Window is approximately 10'-8" tall by 25'-8" wide."
 - iii. At space 5010-109 Mechanical, add note "Install new wall infill per Infill Section

Detail A/2001. Window is approximately 36" tall by 48" Wide. Run metal panels to cover concrete beam."

- iv. Contractor shall have roofer make any required modifications to roof for new exhaust curb or outside air curb for new Kitchen Hood.
- v. Build CMU chase around Water piping adjacent to door between kitchen and lunchroom.
- vi. Space 5010-108, add toilet paper dispenser.
- vii. Space 5010-114, add 48" mop holder.

- 10. Sheet M0001: Delete Sheet in its entirety and replace with Sheet M0001 With Revised date 4/7/2021.
- 11. Sheet M1001: Delete Sheet in its entirety and replace with Sheet M1001 With Revised date 4/7/2021.
- 12. Sheet M2001: Delete Sheet in its entirety and replace with Sheet M2001 With Revised date 4/7/2021.
- 13. Sheet P2001: Delete Sheet in its entirety and replace with Sheet P2001 With Revised date 4/7/2021.
- 14. Sheet P2002: Delete Sheet in its entirety and replace with Sheet P2002 With Revised date 4/7/2021.
- 15. Sheet P3001: Delete Sheet in its entirety and replace with Sheet P3001 With Revised date 4/7/2021.
- 16. Sheet E1001, Electrical Composite Plan
 - 1. Delete in its entirety and replace with the attached Drawing Sheet E1001. Summary of changes are as follows: Low voltage systems head end equipment (fire alarm control panel, intercom sound cabinet, wall mounted data rack, and CCTV head end) locations were added.
- 17. Sheet E1002, Electrical Demolition Plan
 - 1. Keyed Note 7—Revise the entire Keyed Note to read as follows: Remove existing exterior load center and branch circuitry serving existing cooler being demolished. Intercept existing cooler load center circuit inside building and extend to new load center. Locate new load center at new cooler and connect per manufacturer's recommendations. Provide new disconnect(s) to serve condenser(s) as required.
- 18. Sheet E3001, Power Plan-Kitchen/Cafeteria
 - 1. Detail 1/E3001—Change existing cooler load center to new cooler load center. Add Keyed Note 27 to this load center.
 - 2. Keyed Notes—Add Keyed Note 27 to read as follows: Provide 100A, three phase, MLO, NEMA 3R with 1-100/3 breaker and 3-20/1 breakers to serve cooler. Provide weatherproof GFCI receptacle adjacent to load center and connect to 20/1 breaker. Coordinate with manufacturer's shop drawings and revise breakers based on recommendations. Notify Architect of any discrepancies.

END

SECTION 002215

SUPPLEMENTARY CONDITIONS

The following supplements modify the "General Conditions of the Contract for Construction," AIA Documents A201–2017 which are included within Section 002213. Where a portion of the General Conditions is modified or deleted by these Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect.

ARTICLE 1 - GENERAL PROVISIONS

- A. Add the following sentence to the end of Subparagraph 1.1.1:
The Contract Documents executed or identified in accordance with Subparagraph 1.5.1 shall prevail in case of an inconsistency with subsequent versions made through manipulatable electronic operations involving computers.
- B. Add Clause 1.4.1 to Subparagraph 1.4:
1.4.1 In the event of conflicts or discrepancies about the Contract Documents, interpretations will be based on the following priorities:
1. The Agreement.
 2. Addenda, with those of later date having precedence over those of earlier date.
 3. The Supplementary Conditions.
 4. The General Conditions of the Contract for Construction.
 5. Division 1 of the Specifications
 6. Drawings and Divisions 2-33 of the Specifications.
- In the case of conflicts or discrepancies between Drawings and Divisions 2-33 of the Specifications or within either Document not clarified by Addendum, the Architect will determine which takes precedence in accordance with Subparagraph 4.2.11.
- C. Add the following Subparagraph 1.5.3 to Paragraph 1.5:
1.5.3 Contractor's Use of Instruments of Service in Electronic Form.
- 1.5.3.1** The Architect may, with the concurrence of the Owner, furnish to the Contractor versions of Instruments of Service in electronic form. The Contract Documents executed or identified in accordance with Subparagraph 1.1 shall prevail in case of an inconsistency with subsequent versions made through manipulatable electronic operations involving computers.
- 1.5.3.2** The Contractor shall not transfer or reuse Instruments of Service in electronic or machine readable form without the prior written consent of the Architect.

ARTICLE 3 - CONTRACTOR

- A. Add the following Subparagraph 3.2.5 to Paragraph 3.2:
3.2.5. The Owner shall be entitled to deduct from the Contract Sum amounts paid to the Architect for the Architect to evaluate and respond to the Contractor's requests for information, where such information was available to the Contractor from a careful study and comparison of the Contract Documents, field conditions, other Owner-provided information, Contractor-prepared coordination drawings, or prior Project correspondence or documentation.
- B. Delete Subparagraph 3.4.2 and substitute the following:
3.4.2 After the Contract has been executed, the Owner and Architect will consider a formal request for the substitution of products in place of those specified only under the conditions set forth in the General Requirements (Division 1 of the Specifications). By making request for substitutions, the Contractor:
- .1 represents that the Contractor has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified;
 - .2 represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified;

- .3 certifies that the cost data presented is complete and includes all related costs under this Contract except the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently become apparent; and
- .4 will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.

C. Add the following Subparagraph 3.4.4 to Paragraph 3.4:

3.4.4 The Owner shall be entitled to deduct from the Contract Sum amounts paid to the Architect to evaluate the Contractor's proposed substitutions and to make agreed upon changes in the Drawings and Specifications made necessary by the Owner's acceptance of such substitutions.

ARTICLE 4 - ADMINISTRATION OF THE CONTRACT

A. Add Clause 4.2.2.1 to Subparagraph 4.2.2:

4.2.2.1 The Contractor shall reimburse the Owner for compensation paid to the Architect for additional site visits made necessary by the fault, neglect or request of the Contractor.

ARTICLE 7 - CHANGES IN THE WORK

A. Add the following Subparagraph 7.1.4 to Paragraph 7.1:

7.1.4 The combined overhead and profit included in the total cost to the Owner of a change in the Work shall be based on the following schedule:

- .1 For the Contractor, for Work performed by the Contractor's own forces, 10 percent of the cost.
- .2 For the Contractor, for Work performed by the Contractor's Subcontractors, 5 percent of the amount due the Subcontractors.
- .3 For each Subcontractor involved, for Work performed by that Subcontractor's own forces, 10 percent of the cost.
- .4 For each Subcontractor involved, for Work performed by the Subcontractor's Sub-subcontractors, 5 percent of the amount due the Sub-subcontractor.
- .5 Cost to which overhead and profit is to be applied shall be determined in accordance with Subparagraph 7.3.4.
- .6 In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their property can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, materials and Subcontracts. Labor and materials shall be itemized in the manner prescribed above. Where major cost items are Subcontracts, they shall be itemized also.

ARTICLE 9 - PAYMENTS AND COMPLETION

A. Add the following Clause 9.3.1.3 to Subparagraph 9.3.1:

9.3.1.3 Until final payment, the Owner shall pay 90 percent of the amount due the Contractor on account of progress payments. 10% retainage shall be withheld until job is 100% complete. For each Work category shown to be 50 percent or more complete in the Application for Payment, the Architect may, without reduction of previous retainage, certify any remaining progress payments for each Work category to be paid in full.

B. Add the following Clause 9.8.3.1 to Subparagraph 9.8.3:

9.8.3.1 Except with the consent of the Owner, the Architect will perform no more than two (2) inspections to determine whether the Work or a designated portion thereof has attained Substantial Completion in accordance with the Contract Documents. The Owner shall be entitled to deduct from the Contract Sum amounts paid to the Architect for any additional inspections.

C. Add the following Clause 9.10.1.1 to Subparagraph 9.10.1:

9.10.1.1 Except with the consent of the Owner, the Architect will perform no more than two (2) inspections to determine whether the Work or a designated portion thereof has attained Final Completion in accordance with the Contract Documents. The Owner shall be entitled to deduct from the Contract Sum amounts paid to the Architect for any additional inspections.

- D. In Subparagraph 9.10.2 omit, “(5) if required by the Owner, . . . designated by the Owner” and substitute the following: “(5) Statutory Affidavit executed by the Contractor and all Subcontractors in the form following this section.”

ARTICLE 11 - INSURANCE AND BONDS

- A. Add the following Clauses 11.1.2.1 through 11.1.2.3 to Subparagraph 11.1.2:

11.1.2.1 The limits for Worker's Compensation and Employer's Liability insurance shall meet statutory limits mandated by State and Federal Laws. If (1) limits in excess of those required by statute are to be provided or (2) the employer is not statutorily bound to obtain such insurance coverage or (3) additional coverages are required, additional coverages and limits for such insurance shall be as follows:

11.1.2.2 The limits for Commercial General Liability insurance including coverage for Premises-Operations, Independent Contractors' Protective, Products-Completed Operations, Contractual Liability, Personal Injury and Broad Form Property Damage (including coverage for Explosion, Collapse and Underground hazards) shall be as follows:

\$ 1,000,000. Each Occurrence
\$ 2,000,000. General Aggregate
\$ 1,000,000. Personal and Advertising Injury
\$ 2,000,000. Products-Completed Operations Aggregate

- .1 The policy shall be endorsed to have the General Aggregate apply to this Project only.
- .2 The Contractual Liability insurance shall include coverage sufficient to meet the obligations in AIA Documents A201-2007 under Paragraph 3.18.
- .3 Products and Completed Operations insurance shall be maintained for a minimum period of at least One (1) year(s) after either 90 days following Substantial Completion or final payment, whichever is earlier.

11.1.2.3 Automobile Liability insurance (owned, non-owned and hired vehicles) for bodily injury and property damage shall be as follows:

\$ 1,000,000. Each Accident

- B. In subparagraph 11.1.2, add the following: “Contractor shall furnish bonds equal to 100 percent of the Contract Sum.
- C. **11.1.3** Add the following after “furnished”; “not later than 5 days following date of agreement”.
- D. Add the following Clause 11.1.3.1 to Subparagraph 11.1.3:
11.1.3.1 The Contractor shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of the power of attorney.

ARTICLE 15 – CLAIMS AND DISPUTES

- A. Add the following Clauses 15.1.6.3 and 15.1.6.4 to Subparagraph 15.1.6:

15.1.6.3 Claims for increase in the Contract Time shall set forth in detail the circumstances that form the basis for the Claim, the date upon which each cause of delay began to affect the progress of the Work, the date upon which each cause of delay ceased to affect the progress of the Work and the number of days' increase in the Contract Time claimed as a consequence of each such cause of delay. The Contractor shall provide such supporting documentation as the Owner may require including, where appropriate, a revised construction schedule indicating all the activities affected by the circumstances forming the basis of the Claim.

15.1.6.4 The Contractor shall not be entitled to a separate increase in the Contract Time for each one of the number of causes of delay which may have concurrent or interrelated effects on the progress of the Work, or for concurrent delays due to the fault of the Contractor.

STATUTORY AFFIDAVIT

STATE OF _____ COUNTY OF _____

FROM: _____
(Contractor)

TO: _____

RE: Contract entered into this _____ day of _____, 20____, between the above mentioned parties for the construction of a _____
_____.

KNOW ALL MEN BY THESE PRESENTS:

1. The undersigned hereby certifies that all work required under the above contract has been performed in accordance with the terms thereof, that all material men, subcontractors, mechanics and laborers have been paid and satisfied in full and that there are not outstanding claims of any character arising out of the performance of the Contract which have not been paid and satisfied in full.
2. The undersigned further certifies that to the best of his knowledge and belief there are not unsatisfied claims for damages resulting from injury or death to any employee, subcontractor, or the public at large arising out of the performance of the contract, or any suits or claims for any other damage of any kind, nature, or description which might constitute a lien upon the property of the Owner.
3. The undersigned makes this affidavit as provided by law and for the purpose of receiving final payment in full settlement of all claims arising under or by virtue of the Contract, and acceptance of such payment is acknowledged as a release of the Owner from any and all claims arising under or by virtue of the Contract.

IN WITNESS WHEREOF, the undersigned has signed and sealed this instrument

_____ this _____ day of _____, 20____.

Personally appeared before the undersigned, _____ and _____ who after being duly sworn, depose(s) and say(s) that the facts stated in the above affidavit are true.

(Notary Public)

This _____ day of _____, 20____.

My Commission expires _____.

SECTION 004321
ALLOWANCE FORM

PART 1 - BID INFORMATION

- 1.01 Bidder: _____.
- 1.02 Project Name: G.W. Carver Freshman Facility Kitchen and Toilet Renovations.
- 1.03 Project Location: 1020 Gaskin Avenue South, Douglas, GA 31533.
- 1.04 Owner: Coffee County Schools
- 1.05 Architect: Altman + Barrett Architects, P.C..
- 1.06 Architect Project Number: 19037

PART 2 - BID FORM SUPPLEMENT

- 2.01 This form is required to be attached to the Bid Form.
- 2.02 The undersigned Bidder certifies that Base Bid submission to which this Bid Supplement is attached includes those allowances described in the Contract Documents and scheduled in Section 012100 "Allowances."

PART 3 - SUBMISSION OF BID SUPPLEMENT

- 3.01 Respectfully submitted this ____ day of _____, 2021.
- 3.02 Submitted By: _____ (Insert name of bidding firm or corporation).
- 3.03 Authorized Signature: _____ (Handwritten signature).
- 3.04 Signed By: _____ (Type or print name).
- 3.05 Title: _____ (Owner/Partner/President/Vice President).

END OF DOCUMENT 004321

SECTION 012100

ALLOWANCES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
- B. Types of allowances include the following:
 - 1. Contingency allowances.

1.03 DEFINITIONS

- A. Allowance is a quantity of work or dollar amount established in lieu of additional requirements, used to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

1.04 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection, or purchase and delivery, of each product or system described by an allowance must be completed by the Owner to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.05 ACTION SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders.

1.06 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.07 CONTINGENCY ALLOWANCES

- A. Use the contingency allowance only as directed by Architect for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.
- B. Contractor's overhead, profit, and related costs for products and equipment ordered by Owner under the contingency allowance are included in the allowance

and are not part of the Contract Sum. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs.

- C. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit.
- D. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.02 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.03 SCHEDULE OF ALLOWANCES

- A. Allowance No. 1. Contingency Allowance: Include the sum of \$100,000.00 in base bid. This allowance is for owner to use on any part of the project.

END OF SECTION 012100

MECHANICAL LEGEND

PHASE HATCHING

NEW DUCT/PIPE

EXISTING DUCT/PIPE

XXXX

TO BE DEMOLISHED DUCT/PIPE

DUCT TYPES

12x12

RECTANGULAR

12

ROUND

DUCT SYSTEMS

SA

SUPPLY AIR

RA

RETURN AIR

EA

EXHAUST AIR

OA

OUTSIDE AIR

SYMBOLS

T

WALL MOUNTED THERMOSTAT

NEW / EXISTING WORK SYMBOL

#

KEYNOTE TAG

AIRFLOW SYMBOL

FIRE DAMPER

ABBREVIATIONS

A.F.F.

ABOVE FINISHED FLOOR

E

EXISTING

ID

INNER DIAMETER

F.D.

FIRE DAMPER

A.D.

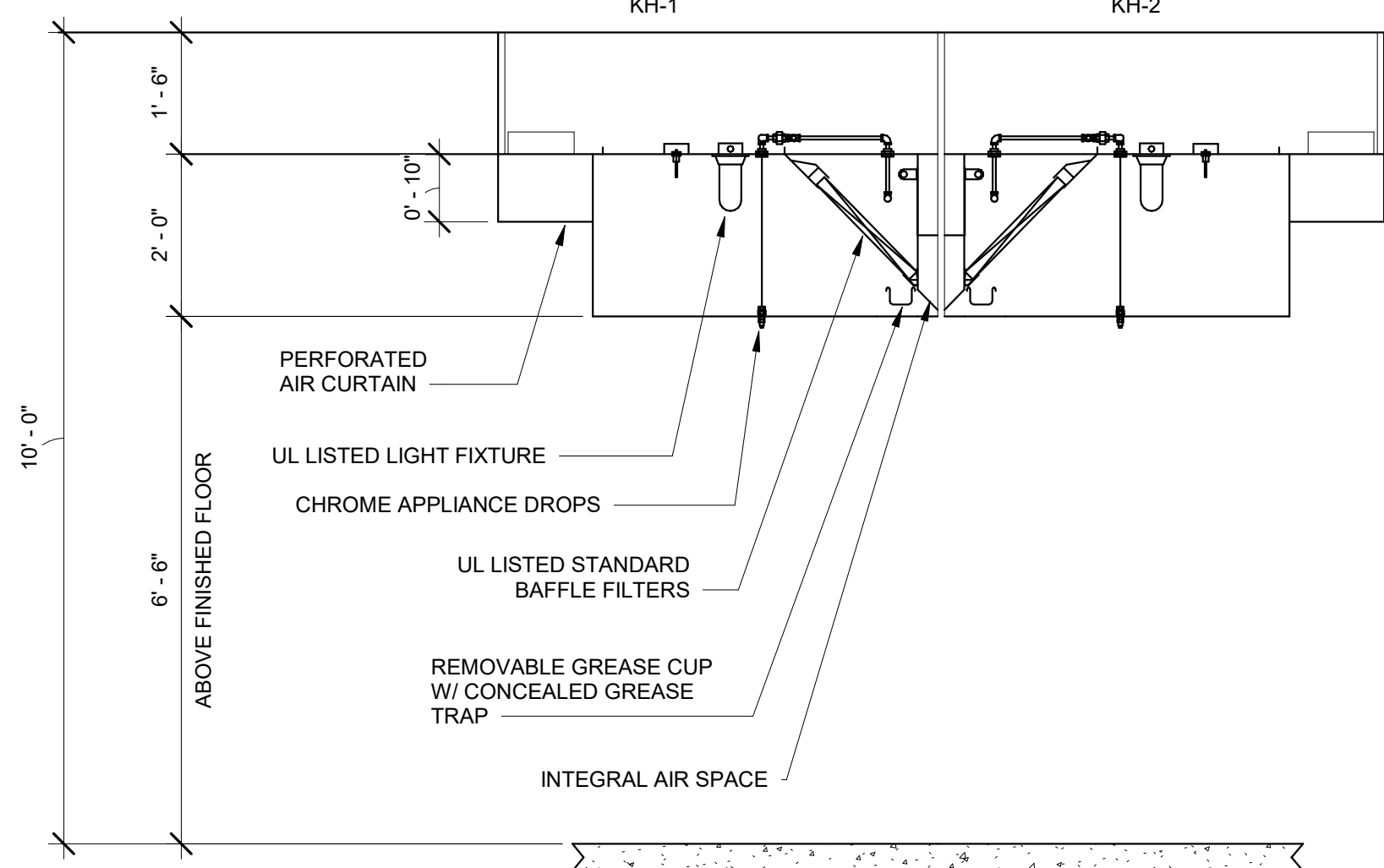
ACCESS DOOR

AIR DEVICE TAGS

A12x12

100

TYPE
NECK SIZE
CFM



1 KITCHEN HOOD

M0001 NOT TO SCALE

MAKEUP AIR UNIT SCHEDULE																										
TAG	MANUFACTURER	MODEL	MOUNT	OUTSIDE AIR CFM	SUPPLY FAN					COOLING PERFORMANCE					GAS HEATING PERFORMANCE				ELECTRICAL				WEIGHT (lbs)	ISMRE	OPTIONS	
					CFM	DRIVE	BHP	HP	RPM	ESP (IN. W.C.)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	TOTAL (BTU/h)	SENSIBLE CAP (BTU/h)	EAT DB (°F)	LAT DB (°F)	INPUT (BTU/h)	OUTPUT (BTU/h)	VOLTAGE	PHASE	MCA				MOCP
MAU-1	GREENHECK	RV-45-25	EQUIPMENT PAD	6,300	6,300	DIRECT	3.2	5.0	1,464	1.0	96	78	68	325,000	192,000	27	86	500,000	400,000	208	3	135	175	3,600	4.2	ALL
OPTIONS:																										
1. REGIONAL OUTDOOR AMBIENT TEMPERATURES (COOLING: 97°F DB, 78°F WB. HEATING: 27°F)																										
2. PAINTED EXTERIOR EQUAL TO PERMATECTOR SILK GRAY (RAL 7044).																										
3. INTERNALLY INSULATED WITH 2IN 2.4# R13 DENSITY FOAM INSULATION.																										
4. HOT GAS REHEAT COIL.																										
5. LOW LEAK OUTDOOR DAMPER																										
6. SCROLL COMPRESSORS.																										
7. STAINLESS STEEL DRAIN PAN.																										
8. FACTORY WIRE, NON-FUSED DISCONNECT.																										
9. MERV 8 SUPPLY AIR FILTERS																										
10. VFD PER FAN																										
11. HORIZONTAL DISCHARGE																										
12. CONTROLS INTERLOCKED WITH KH-1 & 2.																										

DEDICATED OUTDOOR AIR UNIT SCHEDULE																			
TAG	MANUFACTURER	MODEL	OUTSIDE AIR CFM	SUPPLY FAN ESP (IN. W.C.)	COOLING PERFORMANCE				REHEAT CAP (BTUH)	HEATING PERFORMANCE		ELECTRICAL				SONES	WEIGHT (LBS)	ISMRE	OPTIONS
					TOTAL (BTUH)	SENSIBLE (BTUH)	LAT DB (°F)	CAPACITY (BTUH)		LAT (°F)	ELECTRIC (KW)	LAT D.B. (°F)	VOLTAGE	PHASE	MCA	MOCP			
DOAS-2	GREENHECK	RV-25	800	0.5	67,000	37,000	54	40,800	75	20.0	106	208	3	57.7	60.0	9	2,400	4	1-14
DOAS-3	GREENHECK	RV-25	800	0.5	67,000	37,000	54	40,800	75	20.0	106	208	3	57.7	60.0	9	2,400	4	1-14
DOAS-4	GREENHECK	RV-25	800	0.5	67,000	37,000	54	40,800	75	20.0	106	208	3	57.7	60.0	9	2,400	4	1-14

OPTIONS:

1. REGIONAL OUTDOOR AMBIENT TEMPERATURES (COOLING: 97°F DB, 78°F WB. HEATING: 27°F)

2. PAINTED EXTERIOR EQUAL TO PERMATECTOR SILK GRAY (RAL 7044).

3. INTERNALLY INSULATED WITH R13, 2", 2.4LB DENSITY FOAM INSULATION.

4. HOT GAS REHEAT COIL.

5. LOW LEAK OUTDOOR DAMPER

6. MODULATING 20KW ELECTRIC HEAT.

7. SCROLL COMPRESSORS

8. STAINLESS STEEL DRAIN PAN.

9. FACTORY WIRE, NON-FUSED DISCONNECT.

10. MERV 8 SUPPLY AIR FILTERS

11. VFD PER FAN

12. HORIZONTAL DISCHARGE

13. PROGRAMMABLE MICROPROCESSOR CONTROLLER, PRE PROGRAMMED FROM FACTORY FOR HOURS OF OPERATION IN COORDINATION WITH OWNER PRIOR TO ORDER.

14. WIFI COMPATIBLE CONTROLS WITH WEB USER INTERFACE.

PTAC SCHEDULE														
TAG	MANUFACTURER	MODEL	OUTSIDE AIR (CFM)	SUPPLY AIR (CFM)	NOMINAL COOLING CAP. (BTUH)	HP CAPACITY (BTUH)	ELECTRIC HEATER @230V (KW)	ELECTRICAL			INDOOR DBA	WEIGHT (lbs)	OPTIONS	
PTAC-1	ISLANDAIRE	EZ42	15	375	7,500	6,400	3.4	230	1	14.8	15.0	45	140	ALL

OPTIONS:

1. STANDARD ELECTRONIC UNIT MOUNTED CONTROLS

2. MOTORIZED FRESH AIR DAMPER

3. DUAL STAGE ELECTRIC HEAT

4. 18 GAUGE INSULATED WALL SLEEVE

5. ARCHITECTURAL LOUVER

6. SUB-BASE KIT

7. 230V RECEPTACLE

8. CONTRACTOR TO FIELD VERIFY UNIT DIMENSIONS WITH EXISTING WALL PENETRATION, AND EXISTING ELECTRICAL SERVICE PRIOR TO PURCHASE.

KITCHEN HOOD SCHEDULE												
TAG	MANUFACTURER	MODEL	EXHAUST CFM	SUPPLY CFM	LxWxH (in)	S.P. (in. wg.)	HOOD CONSTRUCTION	DUTY RATING	ASSOC. EXHAUST FAN	FIRE SYSTEM	WEIGHT (LBS)	OPTIONS
KH-1	ACCUREX	XXEW-168-S	3,150	2,600	168x48x30	0.6	STAINLESS STEEL	HEAVY	EF-1	ANSUL R-102	550	ALL
KH-2	ACCUREX	XXEW-168-S	3,150	2,600	168x48x30	0.6	STAINLESS STEEL	HEAVY	EF-1	ANSUL R-102	550	ALL

OPTIONS:

1. UL 710 LISTED WITHOUT EXHAUST FIRE DAMPER

2. SUPPLY PLENUM

3. 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT

4. FACTORY MOUNTED EXHAUST COLLARS

5. EXHAUST AIR BALANCING BAFFLES

6. PERFORMANCE ENHANCING LIP TECHNOLOGY

7. 18 GA STANDING SEAM STAINLESS STEEL CONSTRUCTION

8. UL LISTED RECESSED LED LIGHTING

9. UL LISTED HIGH EFFICIENCY GREASE FILTERS

10. REMOVABLE GREASE CUP WITH CONCEALED GREASE TROUGH

11. ANSUL R102 WET CHEMICAL FIRE SYSTEM

12. METAL BLOW OFF CAPS

13. GAS MECHANICAL SHUTOFF VALVE

14. FUSIBLE LINK DETECTION

15. CONTROL KEYPAD MOUNTED ON RIGHT SIDE OF CABINET

16. CONTROLS INTERLOCKED WITH MAU-1

17. STAINLESS STEEL UTILITY PIPING CHASE FOR NATURAL GAS AND VENT PIPES. COORDINATE WITH PLUMBING DRAWINGS.

EXHAUST FAN SCHEDULE													
TAG	MANUFACTURER	MODEL	FAN CFM	FAN HP	FAN BHP	ESP (IN. W.C.)	ELECTRICAL			SONES	WEIGHT (LBS)	OPTIONS	
							VOLTAGE	PHASE	MCA				
EF-1	ACCUREX	XRUB	6,300	5.0	2.8	1.5	208	3	16.7	-	250	1-7	
EF-A	GREENHECK	SE1-10	400	1/30	0.01	0.25	115	1	-	11.5	20	8-12	
EF-B	GREENHECK	SP-A70	75	-	-	0.25	115	1	0.14	0.5	12	13-16	
EF-C	GREENHECK	SP-A70	75	-	-	0.25	115	1	0.14	0.5	12	14-17	
OPTIONS:													
1.	UL 762 LISTED												
2.	NEMA-3R TOGGLE SWITCH												
3.	HINGED BASE												
4.	ROOF CURB WITH HIGH TEMP CURB SEAL RATED FOR CONTINUOUS DUTY												
5.	GREASE TRAP												
6.	HEAT BATTLE												
7.	CLEAN-OUT PORT												
8.	SHORT WALL HOUSING WITH FLUSH EXTERIOR, BIRDSCREEN AND OSHA GUARD												
9.	BACKDRAFT GRAVITY OPERATED DAMPER EQUAL TO GREENHECK WD												
10.	WALL COLLAR												
11.	DIRECT DRIVE												
12.	INTERLOCKED WITH ASSOCIATED DOAS UNIT												
13.	INTERLOCKED WITH LIGHT SWITCH												
14.	STANDARD PLASTIC GRILLE												
15.	WOODED WALL CAP WITH BIRDSCREEN WITH BACKDRAFT DAMPER EQUAL TO GREENHECK WC												
16.	FACTORY MOUNTED ELECTRICAL DISCONNECT												
17.	INTERLOCK WITH LIGHT SWITCH. COORDINATE WITH ELECTRICAL CONTRACTOR.												

AIR DEVICE SCHEDULE									
TAG	MANUFACTURER	MODEL	DESCRIPTION	DEFLECTION	SERVICE	MOUNTING	MATERIAL	SIZE	OPTIONS
A	TITUS	OMNI	SQUARE PLAQUE	4-WAY	SUPPLY	LAY-IN	STEEL	24 x 24	1,4
B	TITUS	300RS-HD	SIDEWALL GRILLE	DOUBLE	SUPPLY	SIDEWALL	STEEL	16 x 16	1,2
C	TITUS	T-700L	SIDEWALL GRILLE	-	TRANSFER	SIDEWALL	STEEL	8 x 6	1,3

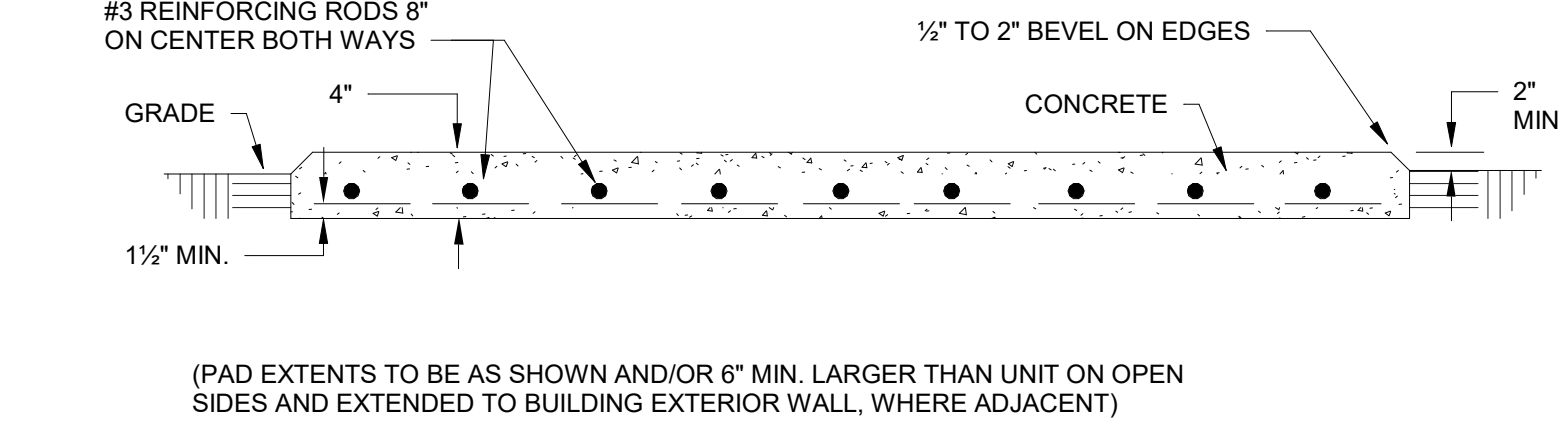
OPTIONS:

1. STANDARD WHITE FINISH

2. HEAVY DUTY 14 GAUGE BLADES

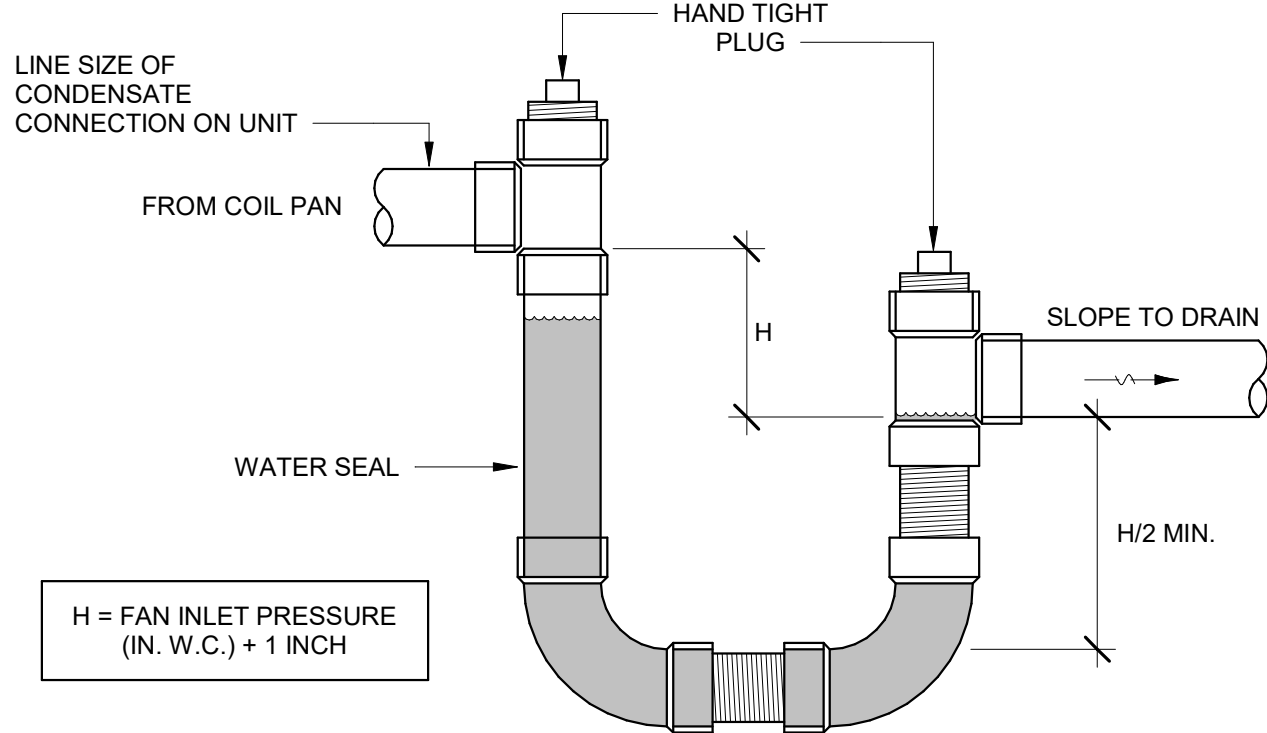
3. SIGHT-PROOF

4. DIRECTIONAL BLOW CLIPS IN KITCHEN AREA



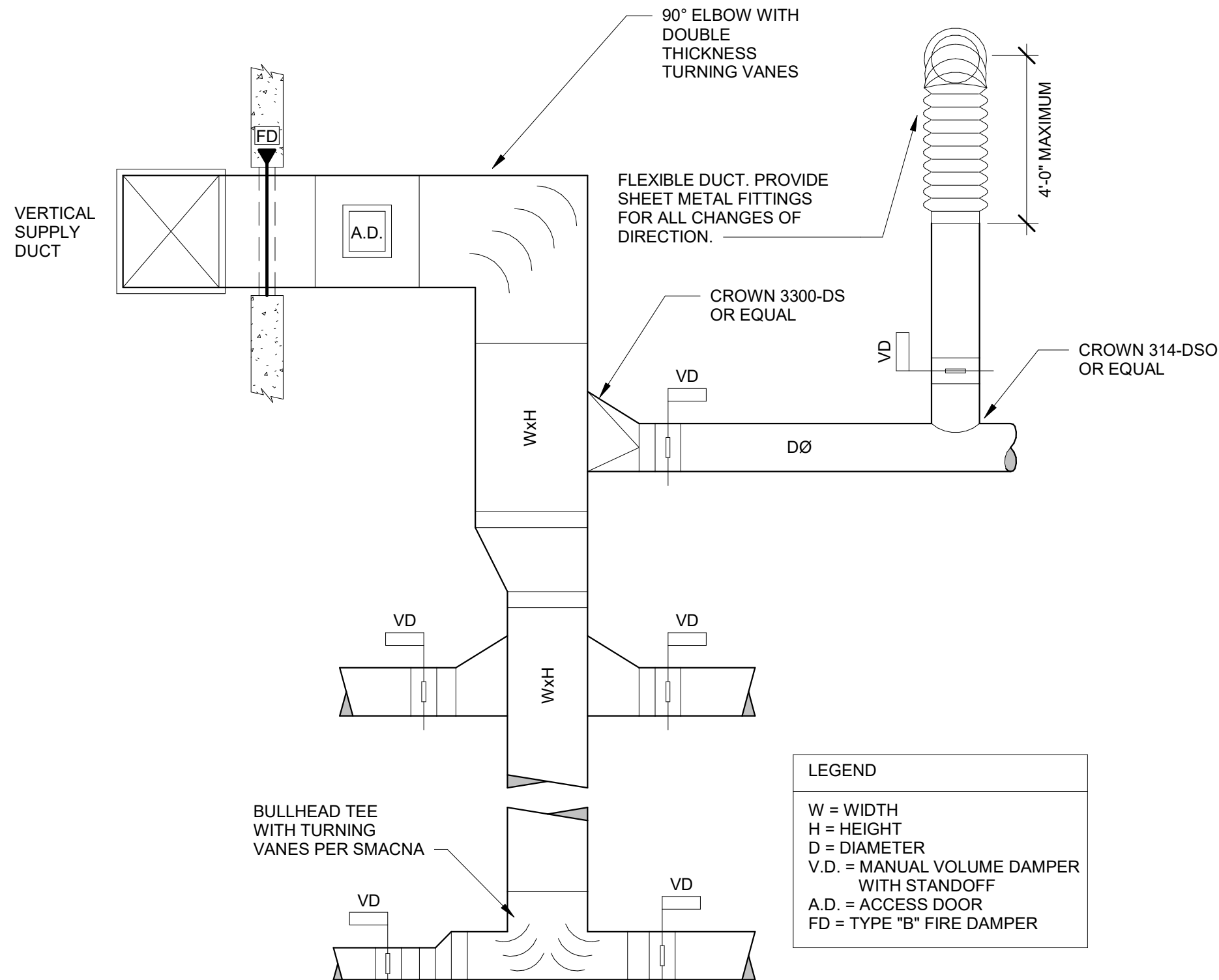
2 EXTERIOR CONCRETE PAD

M0001 NOT TO SCALE



3 NEGATIVE PRESSURE CONDENSATE DRAIN TRAP

M0001 NOT TO SCALE



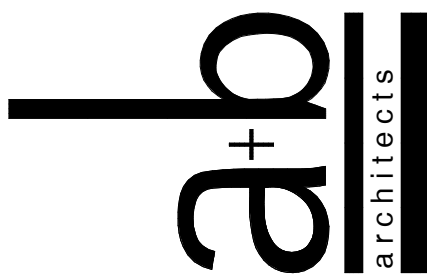
4 TYPICAL DUCTWORK DETAIL

M0001 NOT TO SCALE

GENERAL NOTES:
1. BRANCH DUCT SIZE IS EQUAL TO AIR DEVICE NECK SIZE UNLESS OTHERWISE NOTED.
2. COORDINATE ALL EQUIPMENT INSTALLATION FINAL LOCATIONS TO ALLOW FOR SUFFICIENT MAINTENANCE ACCESS
3. ALL DUCT DIMENSIONS REFER TO CLEAR INTERIOR CROSS SECTION AND DO NOT ACCOUNT FOR INSULATION.



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DATE: 03/09/2021
DRAWN: JKE
CHECKED: SAP
REVISIONS: 4/7/2021
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G.W. CARVER FRESHMAN FACILITY
KITCHEN AND TOILET RENOVATIONS
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PROJECT STATUS

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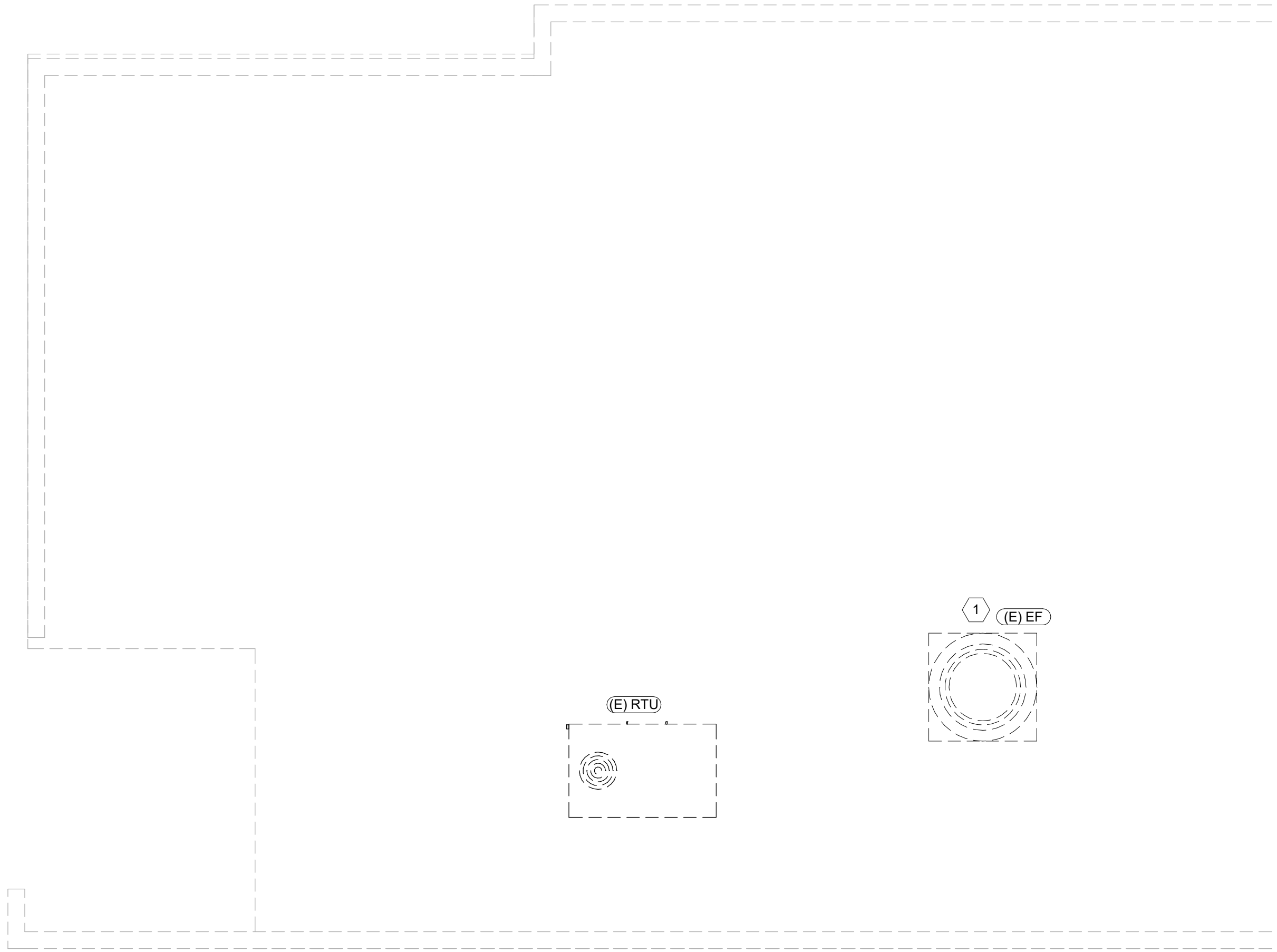
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1 KITCHEN ROOF - MECHANICAL DEMO

M1001 1/4" = 1'-0"

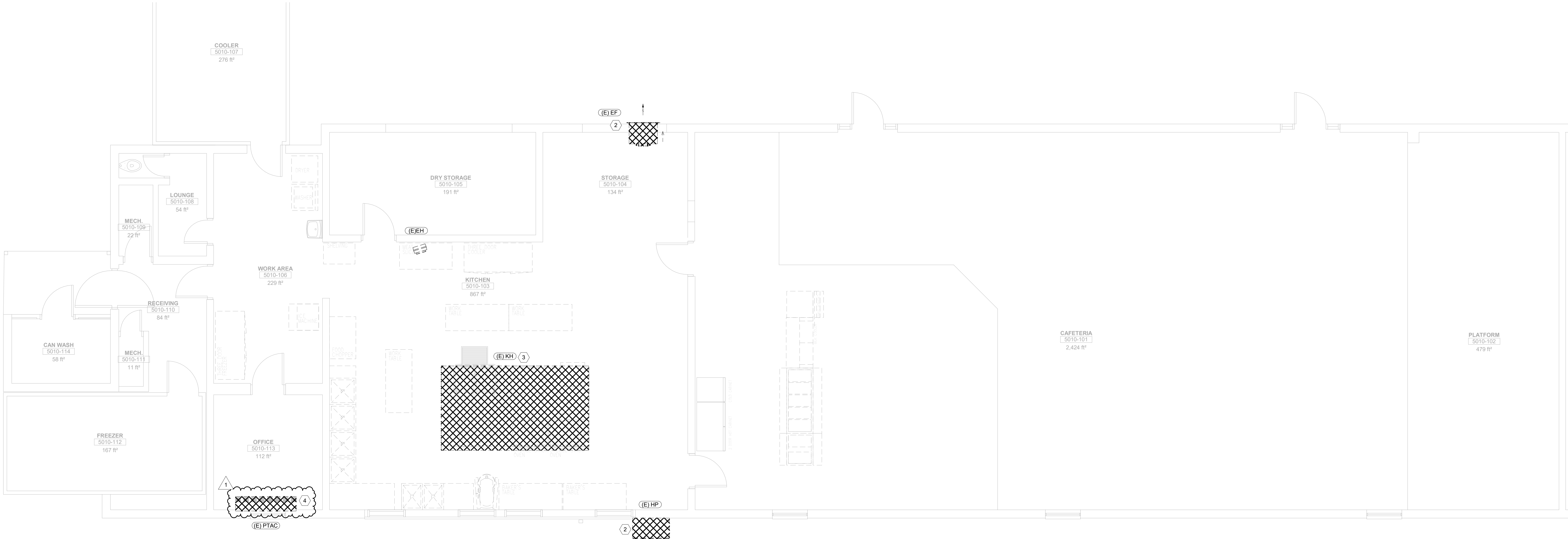
NORTH



2 KITCHEN AND LUNCHROOM - MECHANICAL DEMO

M1001 1/4" = 1'-0"

NORTH



GENERAL NOTES: (THIS SHEET ONLY)

- EXISTING HVAC SYSTEMS REPRESENTED ON THIS SHEET ARE FOR GENERAL REFERENCE PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, ORIENTATION, ARRANGEMENT OF EXISTING SYSTEMS.
- THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE FULL EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK PLANS AND REMOVAL OF MATERIALS AND COMPONENTS REQUIRED FOR INSTALLATION OF THE NEW AND RENOVATED SYSTEMS.

KEYNOTES: (THIS SHEET ONLY)

- DEMOLISH AND REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. ELECTRICAL SERVICE TO REMAIN.
- DEMOLISH AND REMOVE EXISTING MECHANICAL EQUIPMENT. PATCH EXISTING HOLES PER ARCHITECTURAL SPECIFICATIONS.
- DEMOLISH AND REMOVE EXISTING KITCHEN HOOD. PREPARE AREA FOR NEW WORK.
- DEMOLISH AND REMOVE EXISTING PTAC UNIT. PREPARE AREA FOR NEW INSTALL.

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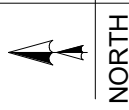
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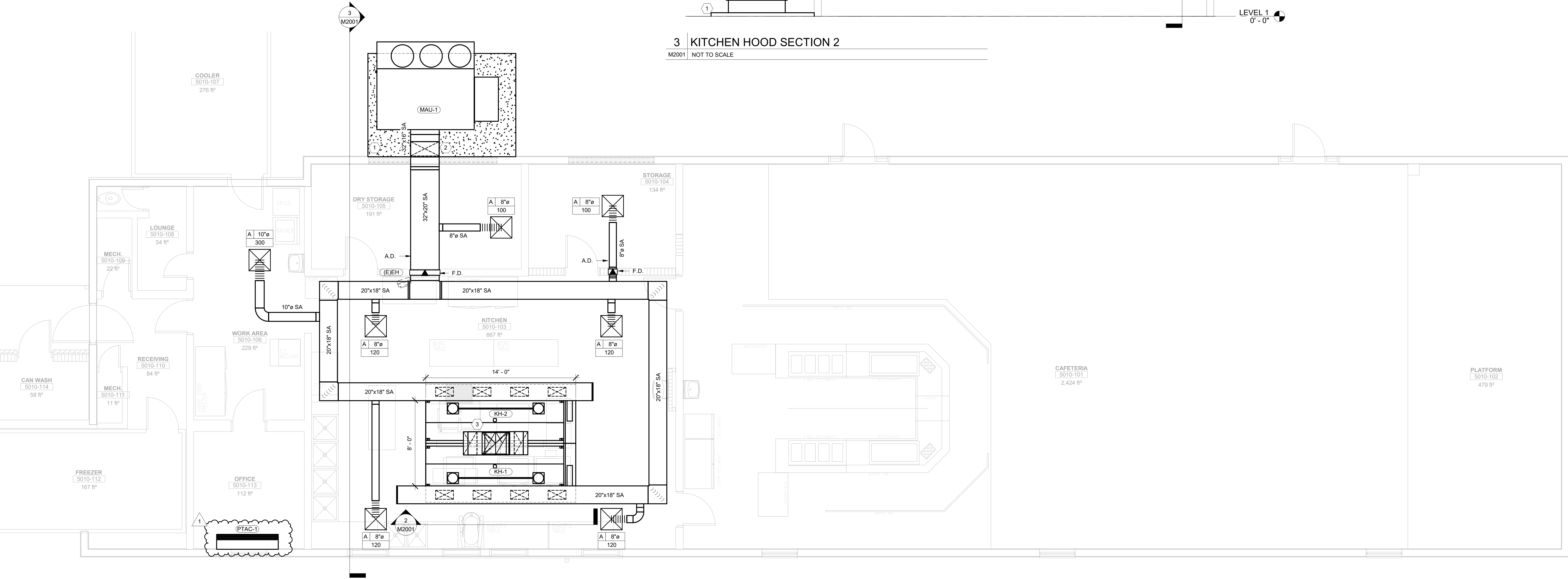
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1 KITCHEN ROOF - MECHANICAL NEW WORK

M2001 1/4" = 1'-0"



NORTH

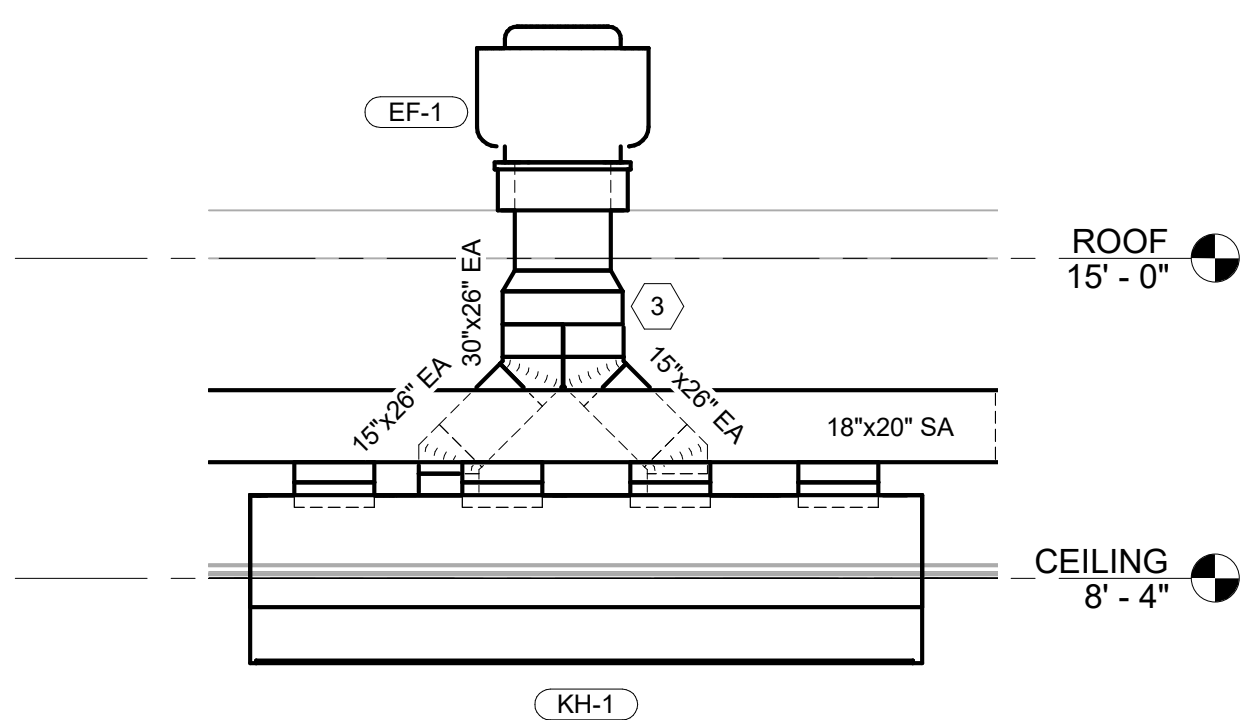


4 KITCHEN AND LUNCHROOM - MECHANICAL NEW WORK

M2001 1/4" = 1'-0"

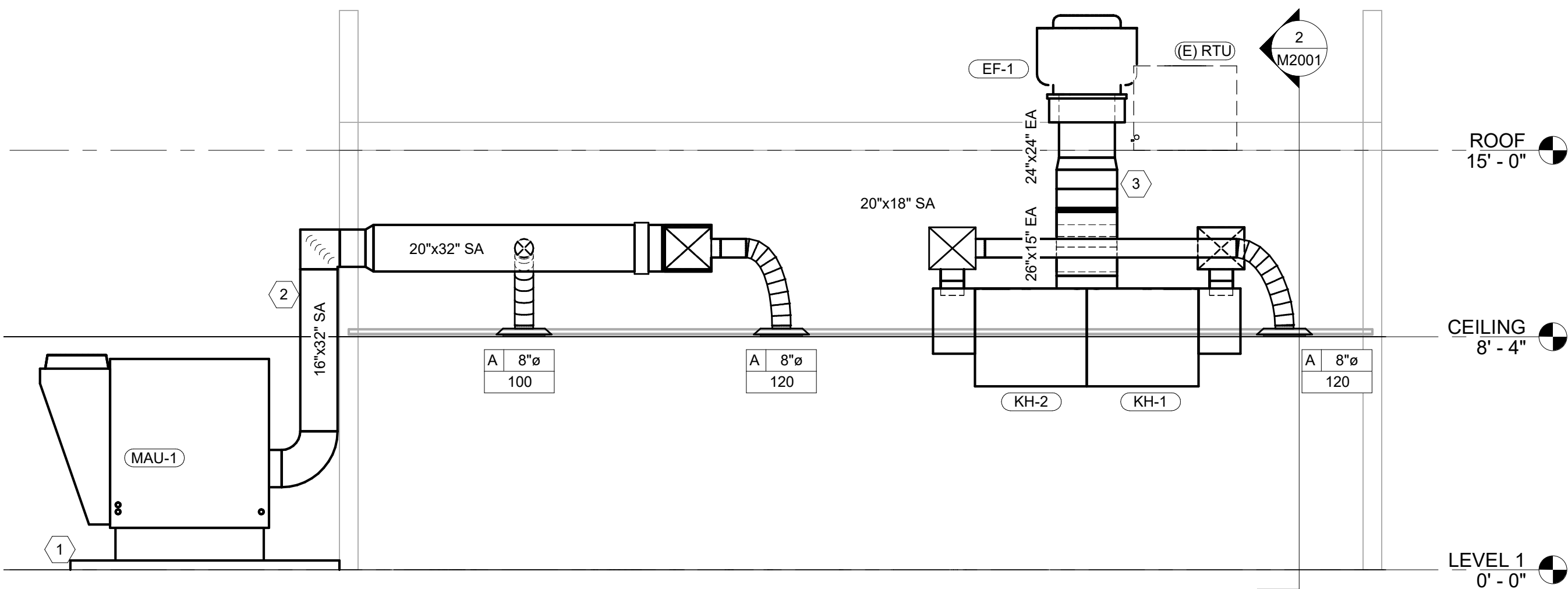


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2 KITCHEN HOOD SECTION 1

M2001 NOT TO SCALE



3 KITCHEN HOOD SECTION 2

M2001 NOT TO SCALE

GENERAL NOTES:

(THIS SHEET ONLY)

- COORDINATE ALL EQUIPMENT INSTALLATION FINAL LOCATIONS TO ALLOW FOR SUFFICIENT MAINTENANCE ACCESS.

KEYNOTES:

(THIS SHEET ONLY)

- POURED-IN-PLACE CONCRETE EQUIPMENT PAD, SIZED TO EXTEND TO EXTERIOR WALL AND 4" LARGER THAN FOOTPRINT OF EQUIPMENT. INCLUDE FLEX JOINT BETWEEN UNIT AND BUILDING. MECHANICAL EQUIPMENT INSTALLED WITH CLEARANCES PER MANUFACTURER'S IOM. REFER TO DETAIL # 2/M0001.
- DUCTWORK ROUTED EXPOSED FROM SIDE DISCHARGE OF UNIT. INSULATE SUPPLY DUCT WITH 2" RIGID BOARD INSULATION EQUAL TO JOHNS MANVILLE XSPEC ISOFOAM AFF BOARD. PROVIDE FIELD INSTALLED JACKET EQUAL TO VENTURECLAD, ALUMINUM EMBOSSED, ON ALL EXPOSED DUCTWORK. DUCT MASTIC SEAL ALL JOINTS PER SPECIFICATION BEFORE INSULATING. CONNECTIONS TO UNITS SHALL BE MADE WITH WEATHERPROOF FLEXIBLE CONNECTIONS. DUCT PENETRATION AT WALL PER ARCHITECTURAL SPECIFICATIONS AND DETAILS, FOR FLASHING, WALL FINISH AND WEATHERPROOFING.
- STAINLESS STEEL WELDED WITH 3M FIRE BARRIER DUCT WRAP ON EXHAUST DUCT UP TO EF-1.

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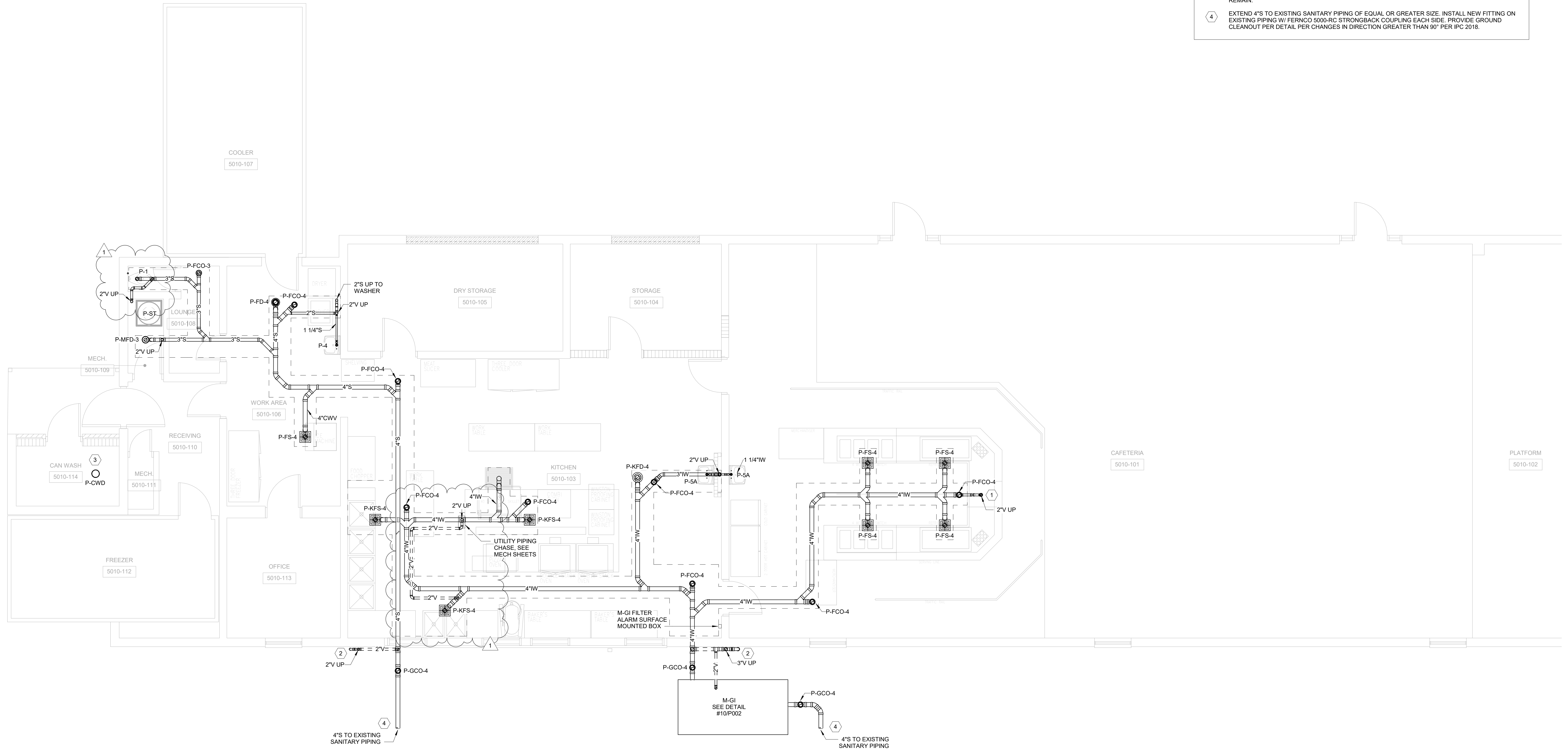
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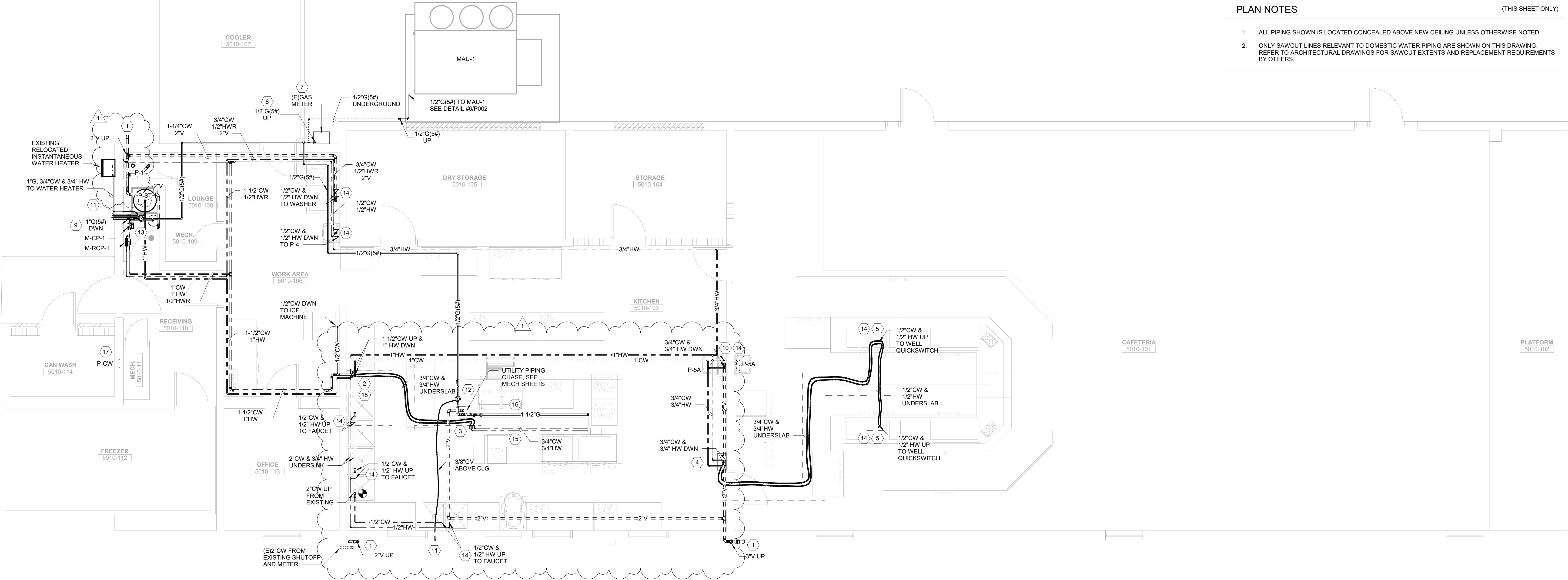
(THIS SHEET ONLY)

- 1 2" V UP UNDERCOUNTER W/ UNION AND AIR ADMITTANCE VALVE INSTALLED CONCEALED AT MAX ELEVATION.
- 2 ROUTE VENT UP ALONG EXTERIOR WALL, AVOIDING OBSTRUCTIONS, AND TERMINATE HIGH W/ MOSCOW ANGLED DOWNWARD. OPENING TO BE COVERED W/ BIRDSCREEN. EXPOSED VENT PIPING TO BE COPPER TYPE "DWV" IN LIEU OF PVC.
- 3 INSTALL NEW CAN WASH FLOOR DRAIN, P-CWD. CONTRACTOR TO VERIFY DRAINAGE ROUTE IS CLEAN AND PROPERLY SLOPED W/ CAMERA AND RECONNECT TO NEW SANITARY SYSTEM IF ANY PORTION OF EXISTING ROUTE HAS BEEN DEMOLISHED, OTHERWISE EXISTING SANITARY PIPING IS TO REMAIN.
- 4 EXTEND 4" TO EXISTING SANITARY PIPING OF EQUAL OR GREATER SIZE. INSTALL NEW FITTING ON EXISTING PIPING W/ FERROCO 5000-RC STRONGBACK COUPLING EACH SIDE. PROVIDE GROUND. CLEANOUT PER DETAIL. PER CHANGES IN DIRECTION GREATER THAN 90° PER IPC 2018.

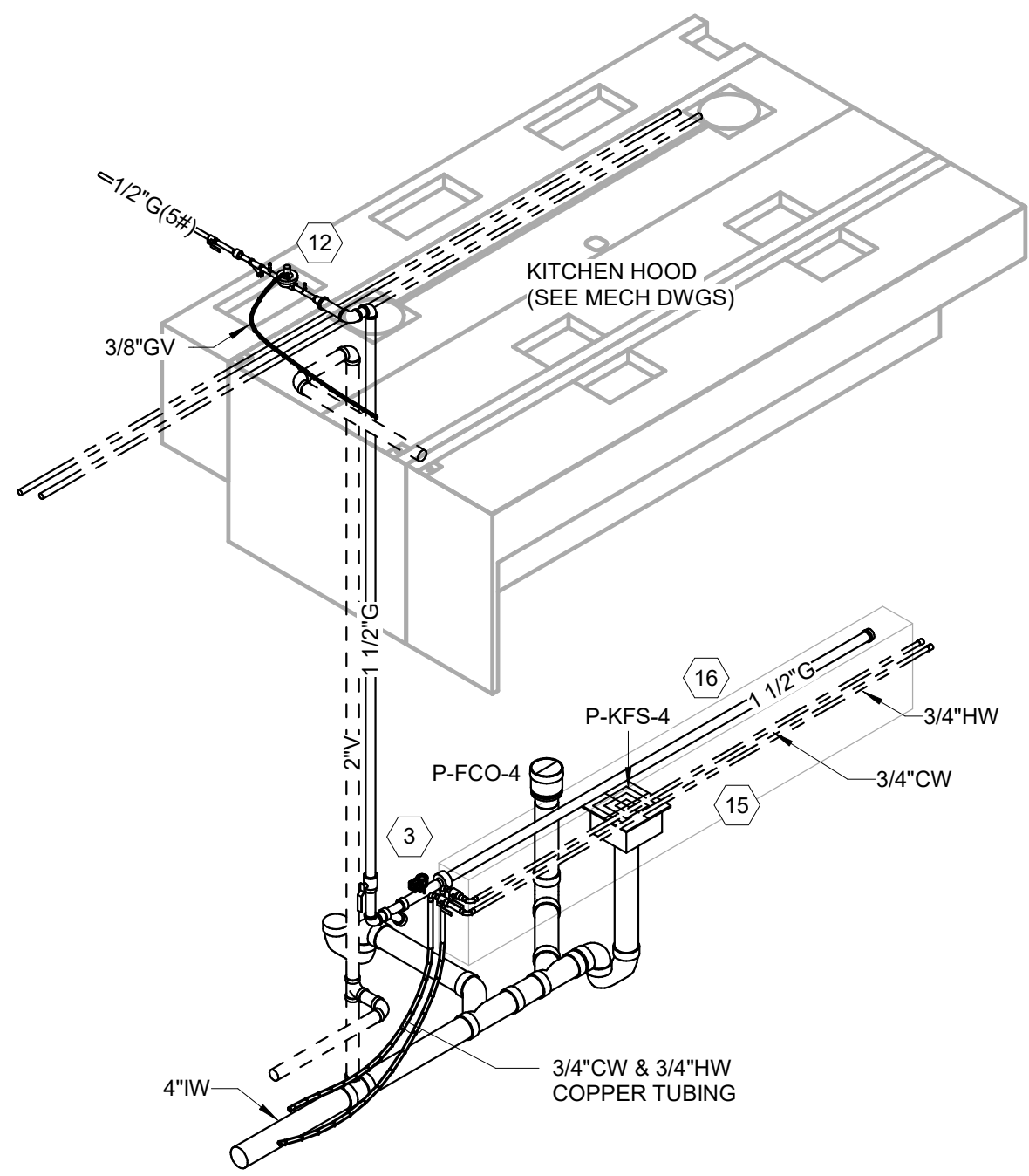


2001	1/4" = 1'-0"
	NORTH

1 KITCHEN - DOMESTIC WATER, GAS & VENT PIPING
P2002 1/4" = 1'-0"



2 KITCHEN ISLAND ISOMETRIC
P2002 NOT TO SCALE



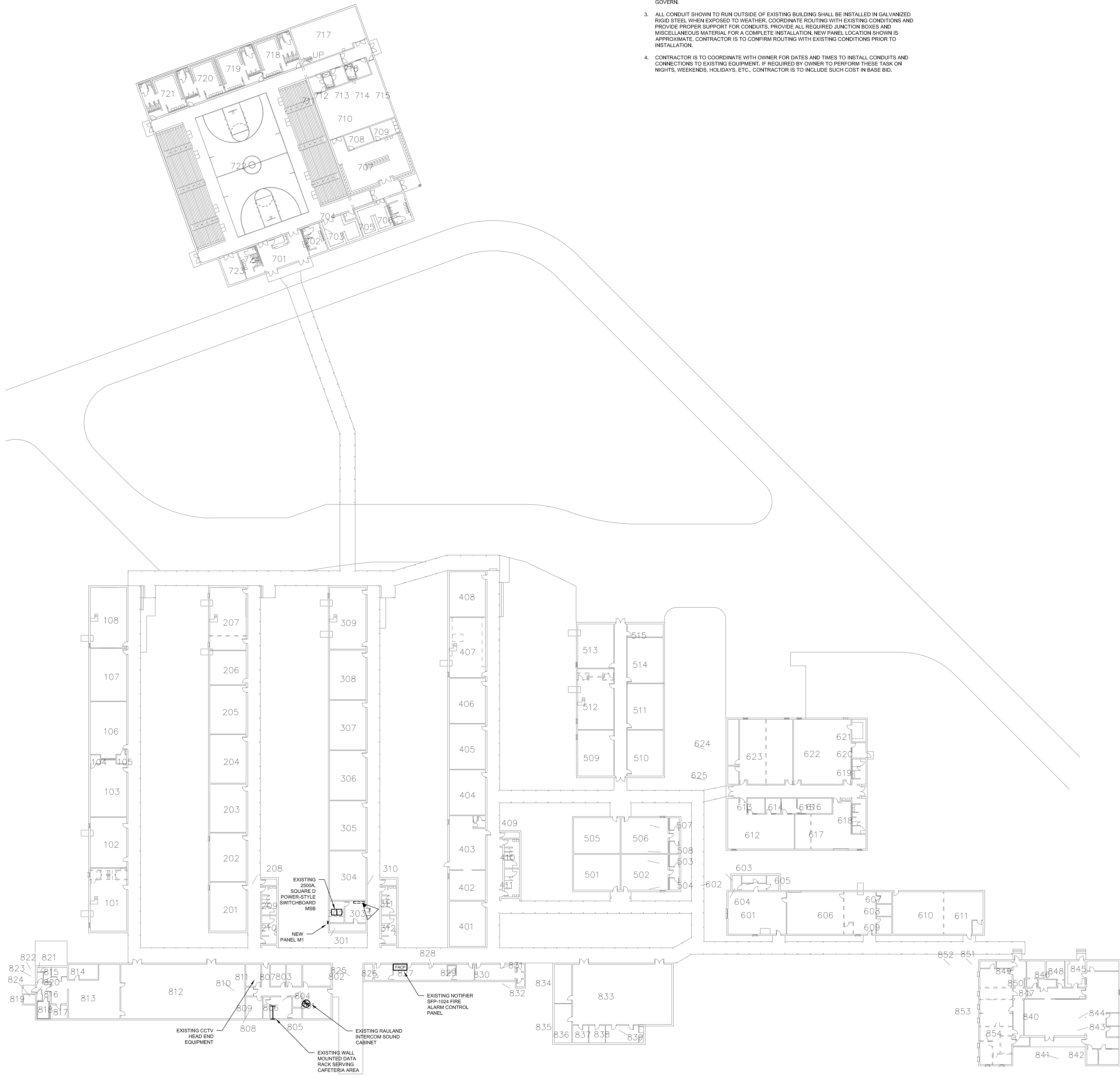
KEYNOTES (THIS SHEET ONLY)

1. TERMINATE VENT HIGH ON EXTERIOR WALL W/ GOOSENECK ANGLED DOWNWARD. OPENING TO BE COVERED W/ BIRDSCREEN. EXPOSED VENT PIPING TO BE COPPER TYPE "DW".
2. 3/4"CW & 3/4"HV DOWN UNDERSLAB THROUGH DESIGNATED SAWCUT AREA TO KITCHEN EQUIPMENT ISLAND. UNDERSLAB PIPING TO BE COPPER TYPE "K" CONTINUOUS TUBING W/ NO JOINTS UNDERSLAB. DOMESTIC WATER AND SANITARY PIPING TO BE SEPARATED UNDERSLAB 1/2" VERTICALLY PER 2018 IPC SECTION 603.2
3. 3/4"CW & 3/4"HV UP. TRANSITIONED TO COPPER TYPE "L" ABOVE SLAB. ROUTE 2"V UP ALONG KITCHEN HOOD AND ABOVE CEILING. ROUTE 1-1/2"G DOWN ALONG KITCHEN HOOD AND TURN LOW ALONG KITCHEN ISLAND PARTITION WALL W/ 1/4-TURN FULL PORT BALL VALVE. UNION AND ELBOW PIPE STAND. TERMINATE DOMESTIC WATER AND GAS PIPING AT FAR PARTITION WALL EXTENT W/ END CAP. SEE ISOMETRIC DRAWING #6/P002 & DETAIL #8/P002
4. 3/4"CW & 3/4"HV DOWN WALL W/ SURFACE MOUNTED VALVE BOX EQUAL TO ACUDOR #ASVB 12X12X4" CARBON STEEL W/ SCREWDRIVER CAM LATCH UNDERSLAB THROUGH DESIGNATED SAWCUT AREA TO CAFETERIA SERVING LINE. UNDERSLAB PIPING TO BE COPPER TYPE "K" CONTINUOUS TUBING W/ NO JOINTS UNDERSLAB.
5. 3/4"CW & 3/4"HV UP. TRANSITIONED TO COPPER TYPE "L" ABOVE SLAB TO 1/2"CW & 1/2"HV CONNECTION TO WELL QUICKSWITCH W/ 1/4-TURN FULL PORT BALL VALVE. ROUTE 1/2"CW & 1/2"HV BACK UNDERSLAB THROUGH DESIGNATED SAWCUT AREA TO OPPOSITE WELL QUICKSWITCH. UNDERSLAB PIPING TO BE COPPER TYPE "K" CONTINUOUS TUBING W/ NO JOINTS UNDERSLAB.
6. 1/2"CW & 1/2"HV UP. TRANSITIONED TO COPPER TYPE "L" ABOVE SLAB TO WELL QUICKSWITCH W/ 1/4-TURN FULL PORT BALL VALVE.
7. GAS METER BY UTILITY COMPANY. MINIMUM 1,200 CFH METER PASS CAPABILITY AT CUSTOMER SIDE PRESSURE @ 5PSI.
8. ROUTE 1/2"G(5#) OVER EXISTING COOLER ROOF AND ATTACH PIPING TO BRICK WALL WITH GALVANIZED UNISTRUT & PIPE CLAMPS. PENETRATE WALL AND MODIFY OPENING FOR NEW GAS PIPING TO EXTEND TO MECHANICAL ROOM.
9. 1/2"G(5#) DOWN WITH LUBRICATED PLUG VALVE & MINIMUM 9'-6" LONG SEDIMENT LEG WITH REMOVABLE CAP.
10. 3/4"CW & 3/4"HV DOWN IN CHASE TO SERVE HAND WASH SINKS, P-4A. 1/2"CW & 1/2"HV THRU WALL TO P-4A FIXTURE IN SERVRY.
11. 3/8"GV CONTINUOUS COPPER TUBING FROM GAS REGULATOR ABOVE CEILING. TRANSITIONED TO COPPER TYPE "L" AT EXTERIOR WALL PENETRATION AND TURNED DOWN W/ 90° ELBOW W/ INSECT SCREEN. SEAL PIPE PENETRATION AIR-WATER TIGHT AND PROVIDE ALL WEATHER ESCUTCHEON.
12. GAS PIPING ASSEMBLY FOR KITCHEN ISLAND EQUIPMENT. SEE DETAIL #8/P002.
13. HOT WATER STORAGE TANK, P-ST. LOCATED IN MECH. #5010-109. CIRCULATION PUMPS TO BE INSTALLED, ACCESSIBLE, ON WALL ON OPEN SIDE OF DOOR. SEE DETAIL #8/P002 FOR PIPING SCHEMATICS AND ACCESSORIES. INSTALL ALL EQUIPMENT AND ACCESSORIES PER MANUFACTURER'S IOM. ROUTE GAS PIPING ASSEMBLY OVERHEAD, SEE DETAIL #7/P002 FOR PIPING SCHEMATICS AND ACCESSORIES.
14. PROVIDE UNDER SINK THERMOSTATIC MIXING VALVE EQUAL TO WATTS #LFUSG-B-M2.
15. DOMESTIC COLD & HOT WATER PIPING ROUTED TIGHT AND SUPPORTED FROM WALL 6" AND 10" OFF KITCHEN FLOOR. PROVIDE (4) FOUR 1/2" CONNECTIONS OFF TOP OF PIPE FOR EACH SERVICE W/ 1/4-TURN LEAD FREE T-HANDLE BALL VALVE AND COPPER NIPPLE W/ CAP. COORDINATE CONNECTION AND FINAL ROUGH-IN OF PIPING FROM NIPPLE TO OWNERS EQUIPMENT (WHERE REQUIRED).
16. GAS PIPING ROUTED TIGHT AND SUPPORTED FROM WALL OR FLOOR 6" ABV KITCHEN FLOOR. PROVIDE (4) FOUR 3/4"G CONNECTION OFF TOP OF PIPE WITH 1/4 TURN GAS VALVE AND NIPPLE WITH CAP. COORDINATE CONNECTION AND FINAL ROUGH-IN OF CSST PIPING FROM NIPPLE TO OWNER'S EQUIPMENT (WHERE REQUIRED).
17. INSTALL NEW CAN WASH FAUCET, P-CW. RECONNECT TO EXISTING DOMESTIC WATER PIPING.
18. PIPE RISERS SHOWN FOR CLARITY; ROUTE EXPOSED PIPING TIGHT AND CLOSE TO WALL.

PLAN NOTES (THIS SHEET ONLY)

1. ALL PIPING SHOWN IS LOCATED CONCEALED ABOVE NEW CEILING UNLESS OTHERWISE NOTED.
2. ONLY SAWCUT LINES RELEVANT TO DOMESTIC WATER PIPING ARE SHOWN ON THIS DRAWING. REFER TO ARCHITECTURAL DRAWINGS FOR SAWCUT EXTENTS AND REPLACEMENT REQUIREMENTS BY OTHERS.





1 ELECTRICAL COMPOSITE PLAN
E1001 SCALE: 1"=30'-0"

GENERAL NOTES:

1. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT.
2. ALL PANELS AND SYSTEM HEAD END EQUIPMENT SHOWN PER THIS SHEET ARE APPROXIMATE LOCATIONS. CONTRACTOR IS TO FIELD CONFIRM EXACT LOCATIONS. FIELD LOCATIONS SHALL GOVERN.
3. ALL CONDUIT SHOWN TO RUN OUTSIDE OF EXISTING BUILDING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL WHEN EXPOSED TO WEATHER. COORDINATE ROUTING WITH EXISTING CONDITIONS AND PROVIDE PROPER SUPPORT FOR CONDUITS. PROVIDE ALL REQUIRED JUNCTION BOXES AND MISCELLANEOUS MATERIAL FOR A COMPLETE INSTALLATION. NEW PANEL LOCATION SHOWN IS APPROXIMATE. CONTRACTOR IS TO CONFIRM ROUTING WITH EXISTING CONDITIONS PRIOR TO INSTALLATION.
4. CONTRACTOR IS TO COORDINATE WITH OWNER FOR DATES AND TIMES TO INSTALL CONDUITS AND CONNECTIONS TO EXISTING EQUIPMENT. IF REQUIRED BY OWNER TO PERFORM THESE TASK ON NIGHTS, WEEKENDS, HOLIDAYS, ETC., CONTRACTOR IS TO INCLUDE SUCH COST IN BASE BID.

KEYED NOTES:

- 1 DEMOLISH EXISTING EQUIPMENT AND ASSOCIATED BRANCH CIRCUITRY NOT IN USE ABOVE WIRE TROUGH. FIELD INVESTIGATE AND COORDINATE WITH OWNER TO DETERMINE WHAT EQUIPMENT IS NO LONGER IN USE.