

MECHANICAL PLAN NOTES:

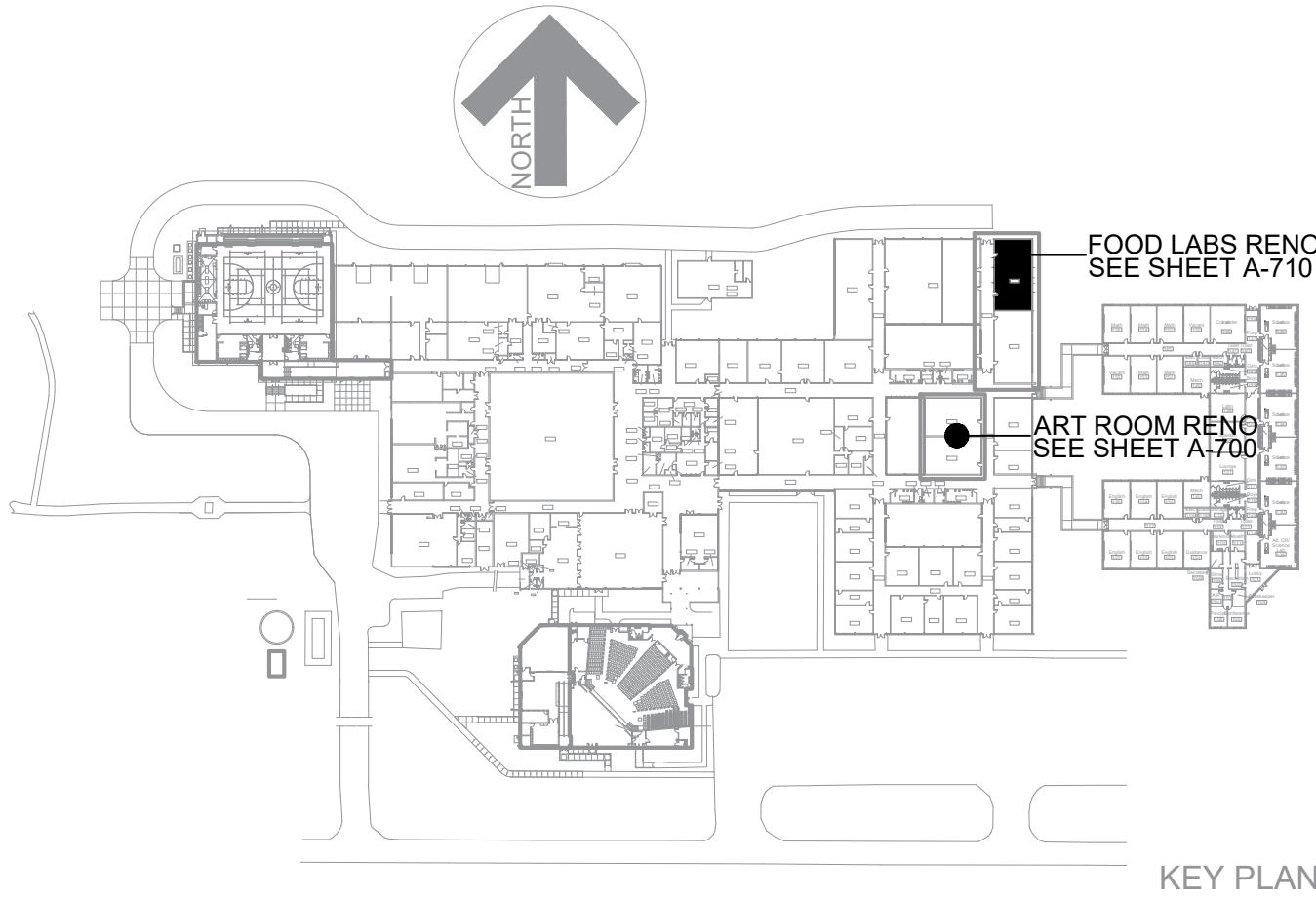
- EXISTING FAN COIL UNIT RELOCATED TO NOT BE IN CONFLICT WITH NEW DISHWASHER OR LIGHTS. CONTRACTOR SHALL REWORK HYDRONIC PIPING AND CONDENSATE PIPING AS REQUIRED TO RECONNECT UNIT TO EXISTING HYDRONIC BRANCH PIPING AND EXISTING CONDENSATE DRAIN PIPING. FIELD COORDINATE EXACT LOCATION WITH EQUIPMENT AND LIGHTS. COORDINATE LOCATION WITH ALL OTHER TRADES.
- EXISTING FAN COIL UNIT ELOCATED TO NOT BE IN CONFLICT WITH NEW FOODS LAB HOOD. CONTRACTOR SHALL REWORK HYDRONIC PIPING AS REQUIRED TO RECONNECT UNIT TO EXISTING HYDRONIC BRANCH PIPING. UNIT TO MOVE APPROXIMATELY 96" IN DIRECTION INDICATED. CONTRACTOR SHALL FIELD VERIFY EXACT DIMENSIONS AND COORDINATE FINAL LOCATION WITH ALL OTHER TRADES.
- TURN DUCTWORK UP TO MAKE-UP AIR UNIT ON ROOF ABOVE.
- NEW KITCHEN HOOD EXHAUST FANS MOUNTED ON ROOF ABOVE.
- INSTALL NEW DRYER DUCT AND MANUFACTURER'S WALLCAP IN EXTERIOR WALL BELOW WINDOWS.
- EXISTING FAN COIL TO REMAIN.
- NEW FAN COIL. CONTRACTOR TO INSTALL IN NEW CLASSROOM AS INDICATED AND CONNECT NEW HOT AND CHILLED WATER BRANCH PIPING BACK TO PIPING MAINS. PROVIDE AND INSTALL NEW MODULATING HOT AND CHILLED WATER CONTROL VALVES AND CONNECT TO EXISTING CONTROL SYSTEM. SEE FAN COIL EQUIPMENT SCHEDULE.
- REMOVE EXISTING FAN COIL AND REPLACE WITH NEW FAN COIL AND NEW CHILLED AND HOT WATER VALVES AS INDICATED IN THE FAN COIL EQUIPMENT SCHEDULE. COORDINATE LOCATION WITH LIGHTS. REWORK TRIM PIPING TO CONNECT BACK TO EXISTING CHILLED AND HOT WATER PIPING.
- PROVIDE AND INSTALL NEW TEMP-SENSOR AND HUMIDISTAT (CAN BE A COMBINATION UNIT) MOUNTED ON WALL NEAR CLASSROOM DOOR. CONNECT FC-304A AND FC-304B TO NEW SENSOR. TIE BACK TO EXISTING JOHNSON CONTROL SYSTEM.
- ALL EXISTING AND NEW HVAC EQUIPMENT SHALL BE TIED BACK TO THE EXISTING CONTROLS SYSTEM. PROVIDE ANY EXPANSION CARDS, PROGRAMMING, CONTROLLER RELOCATION, UPGRADES, ETC. NECESSARY TO HAVE A COMPLETE AND OPERATIONAL SYSTEM AT PROJECT COMPLETION. CONTROLS CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS, CONTROLLERS AND COORDINATING NEW EQUIPMENT WITH MC TO MAKE SURE IT WILL SMOOTHLY INTEGRATE INTO THE EXISTING SYSTEM.

711.1

FOOD LAB
MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

MECHANICAL LEGEND

- G.C. GEN. CONTR.
- E.C. ELEC. CONTR.
- P.C. PLUMB. CONTR.
- AFF ABOVE FINISH FLOOR
- AFG ABOVE FINISH GRADE
- 18x16 WRAPPED RIGID DUCT
- INSULATED FLEXIBLE DUCT
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- CEILING EXHAUST GRILLE OR FAN
- 1 AHU-1 THERMOSTAT & UNIT SERVED.
- 2 AHU-1 HUMIDISTAT & UNIT SERVED.
- A-400 DIFFUSER TYPE-CFM
- MD MANUAL DAMPER
- DUCT MOUNTED SMOKE DETECTOR
- CEILING MOUNTED SMOKE DETECTOR
- FIRE ALARM HORN/STROBE (SEE GENERAL NOTES)
- CONN. TO EXIST.
- G GAS PIPING
- FD SPRING LOADED FIRE DAMPER
- CO2 SENSOR (800 PPM) & UNIT SERVED.
- 1 TWIST TIMER SWITCH
- 120V MOTORIZED DAMPER
- CO SENSOR & UNIT SERVED.
- CO & NO SENSOR & UNIT SERVED. CONSPEC CN50-CO2



ES Project No. ES24029

102-42 Regency Blvd. Greenville, NC 27834
E-Mail Address: general@hiteassociates.com
Tel (252) 438-0328 • Fax (252) 438-0462 • Fax P-1073

ENGINEERING

SOURCE OF NC, P.A.

9/20/24

WILSON FOLK

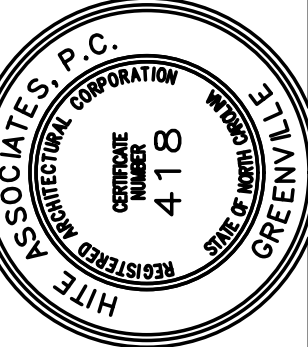
Food Lab And Art Room Renovation
East Carteret High School
3263 Hwy. 70, Beaufort, NC 28516
Carteret County Schools / North Carolina

Project No. 22111

Date: 28 AUGUST, 2024

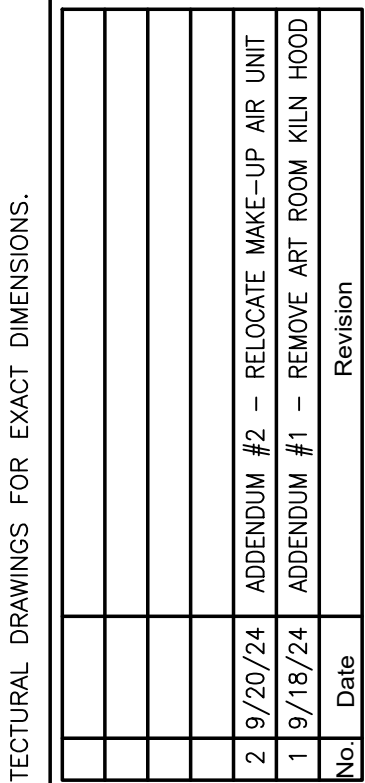
Drawing No. M 711

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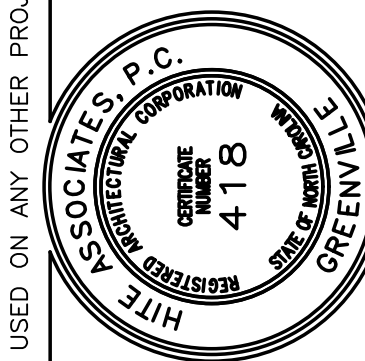


Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

No.	Date	Revision
1	9/18/24	REMOVE ART ROOM KILN HOOD
2	9/20/24	RELOCATE MAKE-UP AIR UNIT
		ADDENDUM #2
		ADDENDUM #1



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



















Food Lab And Art Room Renovation
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3263 Hwy. 70, Beaufort, NC 28516
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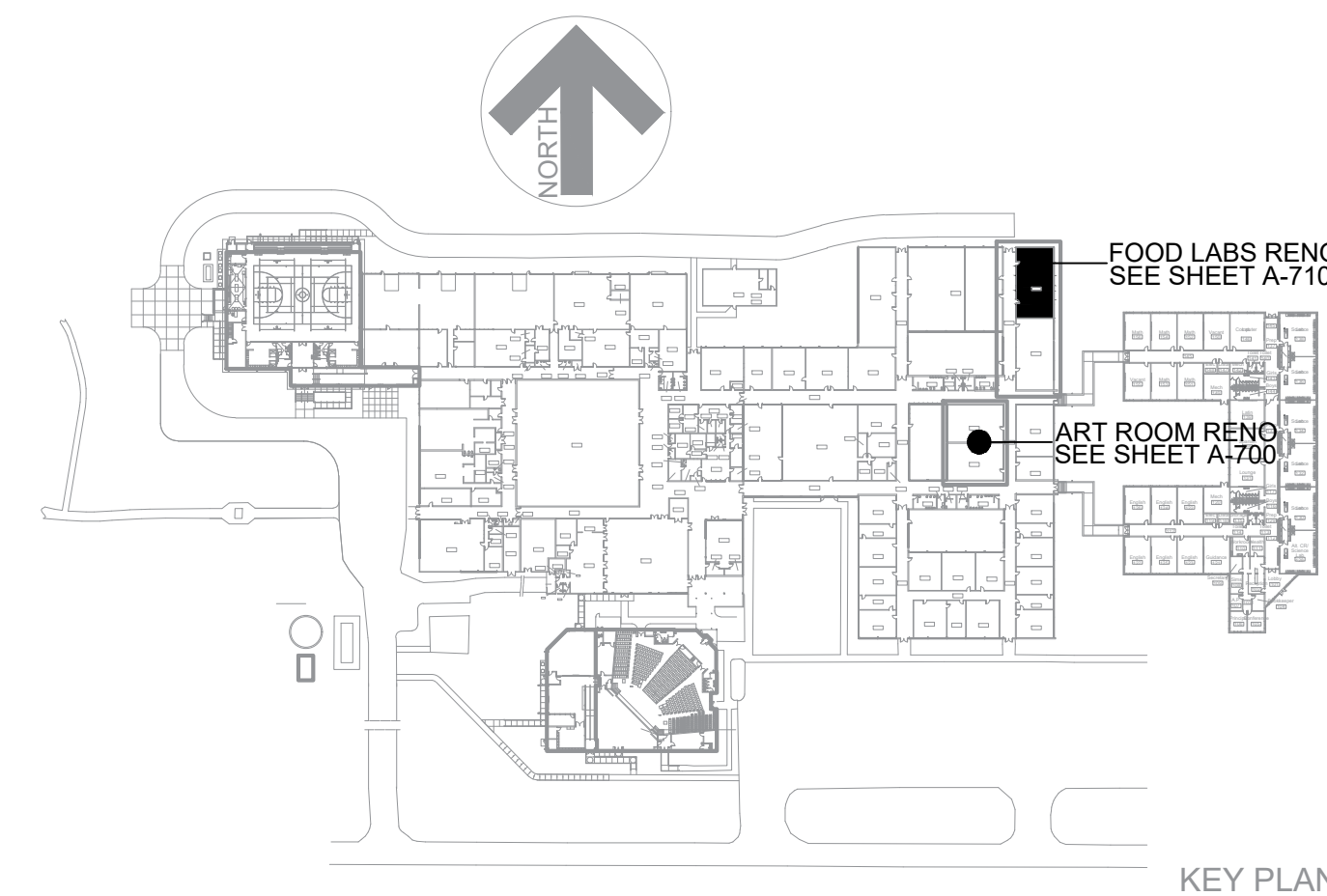
Date:
26 AUGUST, 2024

M
712

GAS SIZING CALCULATIONS			
EQUIPMENT LIST	MBH	QUANTITY	TOTAL MBH
GAS WATER HEATER	199	2	398
GAS RANGE	358	1	358
FRYER	120	1	120
COMBI STEAMER	115	1	115
DOUBLE OVEN	90	1	90
GRIDDLE	75	1	75
KMAU	223	1	223
TOTAL CONNECTED =			1,379
LENGTH OF GAS LINE = 175 FT.			
TYPE OF GAS SERVICE = PROPANE			
GAS PRESSURE = 2 PSI			
SIZE OF GAS SERVICE REQUIRED = 1"			
<p>NOTE: ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF GAS PIPE IF ANY ONE OF THE ABOVE CALCULATIONS DIFFER FROM THE ACTUAL INSTALLATION REQUIREMENTS. ENGINEER SHALL HAVE OPPORTUNITY TO REVIEW ALL INSTALLATION CONDITIONS AND RE-SIZE GAS SERVICE IF REQUIRED.</p>			




- ### MECHANICAL LEGEND
- | | |
|---|---|
| G.C. | GEN. CONTR. |
| E.C. | ELEC. CONTR. |
| P.C. | PLUMB. CONTR. |
| AFB | ABOVE FINISH FLOOR |
| AFG | ABOVE FINISH GRADE |
|  | WRAPPED RIGID DUCT |
|  | INSULATED FLEXIBLE DUCT |
|  | SUPPLY DIFFUSER |
|  | RETURN AIR GRILLE |
|  | CEILING EXHAUST GRILLE OR FAN |
|  AHJ-1 | THERMOSTAT & UNIT SERVED. |
|  AHJ-1 | HUMIDISTAT & UNIT SERVED. |
| A-400 | DIFFUSER TYPE-CFM |
|  MD | MANUAL DAMPER |
|  SD | DUCT MOUNTED SMOKE DETECTOR |
|  CS | CEILING MOUNTED SMOKE DETECTOR |
|  | FIRE ALARM HORN/STROBE
(SEE. GENERAL NOTES) |
|  | CONN. TO EXIST. |
|  | GAS PIPING |
|  | SPRING LOADED FIRE DAMPER |
|  AHJ-1 | CO ₂ SENSOR (800 PPM) & UNIT SERVED. |
|  | TWIST TIMER SWITCH |
|  | 120V MOTORIZED DAMPER |
|  AHJ-1 | CO SENSOR & UNIT SERVED. |
|  AHJ-1 | CO & NO SENSOR & UNIT SERVED. |
|  | INSPEC. CN50-CO202 |



ES Project No: ES24029

ENGINEERING

S O U R C E O F N C, P A.



102-A2 Agency Blvd. Greenville, NC 27834
 E-Mail Address: generalinfo@engsource.com
 Web (919) 438-0338 • Fax (919) 438-0462 • Run #1-173

