

NOTES

1. RECORD EXISTING CEILING GRID LAYOUT AND CONFIGURATION. REMOVE EXISTING ACOUSTICAL TILE CEILING AND GRID. SUPPORT EXISTING LIGHTS DURING CONSTRUCTION. PROVIDE NEW 2' X 2' ACOUSTICAL TILE CEILING AND GRID. REINSTALL LIGHTS IN NEW GRID.
2. REMOVE ALL UNIT VENTILATORS FROM CEILING. REPLACE/REPAIR VOIDS WITH NEW CEILING GRID AND TILE TO MATCH EXISTING.
3. EXISTING LOUVER TO REMAIN. SEPARATE LOUVER FROM DUCT AND CAP THE LOUVER WITH SHEET METAL. PROVIDE 2" RIGID INSULATION BOARDS IN WALL OPENING, SNUG FIT TO WALL AND BEAM ABOVE. PROVIDE STUD FRAMING WITHIN WALL OPENING. FILL STUD FRAMING WITH BATT INSULATION AND CLOSE THE OPENING WITH 1/2" GYPSUMBOARD. CAULK ALL AROUND.
4. WALL HUNG HEAT PUMP. LOCATE TO AVOID CONFLICT WITH STRUCTURAL COLUMNS AND BUILT IN CASEWORK. IF NECESSARY, TRIM TACKBOARDS TO ALLOW CLEARANCE FOR HEAT PUMP. SUPPLY AND RETURN WALL GRILLES/DIFFUSERS. FIELD VERIFY EXACT LOCATION OF UNITS WITH ENGINEER PRIOR TO DEMOLITION.
5. NEW HVAC ROOF TOP UNIT. SEE DETAIL 2/A2.1
6. REMOVE ALL UNIT VENTILATORS FROM CEILING. REPLACE CEILING GRID AND TILE AS STATED IN NOTE 1 ABOVE.
7. REMOVE/REPAIR/REPLACE EXISTING 2' X 2' GRID AND TILE CEILING AS REQUIRED FOR INSTALLATION OF NEW DUCT. SEE MECHANICAL.
8. NEW MECHANICAL UNIT ON CONCRETE PAD. SEE MECHANICAL. AT PENETRATIONS THROUGH WALL PROVIDE NPI SEALANT TO CLOSE ALL OPENINGS.



FLOOR PLAN - NEW AND DEMOLITION
SCALE 3/32" = 1'-0"



Ingram-Pye ES-611-3067

LOCAL FUNDS ONLY
BIBB BOE BID # 17-27

REVISION	
1	5 - 10 - 17

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON AND IS NOT TO BE USED ON OTHER PROJECTS OR EXTENDING TO ANY OTHER PROJECT OR ENTERPRISE WITHOUT THE WRITTEN CONSENT OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS. ANY UNAUTHORIZED REPRODUCTION OR ALTERATION IS PROHIBITED.

HVAC RENOVATIONS
TO
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO.
17-006

SHEET TITLE
FLOOR PLAN
DEMOLITION AND NEW

DATE
APRIL 18, 2017

DRAWN BY
RAD CTS

CHECKED BY
MVP

SHEET NUMBER

A1.1

MECHANICAL LEGEND	
LINE WEIGHTS	
	EXISTING TO REMAIN
	TO BE DEMOLISHED
	NEW WORK
SYMBOLS	
	CONDENSATE DRAIN PIPING
	REFRIGERANT PIPING
	DROPPING OR RISING PIPE
	PIPE TO OR FROM ABOVE
	RECTANGULAR DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	SPIRAL ROUND DOUBLE WALL DUCT
	ROUND DUCTWORK OR FLUE PIPING
	RECTANGULAR TO ROUND DUCT TRANSITION
	FLEXIBLE ROUND DUCT
	FLEXIBLE DUCT CONNECTION
	ADJUSTABLE DEFLECTOR VANES AT BRANCH DUCT
	SQUARE DUCT ELBOW WITH TURNING VANES
	MANUAL VOLUME DAMPER
	FIRE DAMPER IN DUCT THROUGH WALL
	FIRE/SMOKE DAMPER IN DUCT THROUGH WALL
	AUTOMATIC (MOTORIZED) CONTROL DAMPER
	ONE INCH THICK DUCT LINER
	SPLITTER DAMPER WITH SPLIT DIMENSIONS SHOWN
	VERTICAL OFFSET: ARROW INDICATES RISE
	FIRE DAMPER IN DUCT THROUGH FLOOR SLAB
	RADIANT FIRE DAMPER AT CEILING
	EQUIPMENT ON ROOF ABOVE
	WALL MOUNTED THERMOSTAT OR TEMPERATURE SENSOR
	WALL MOUNTED HUMIDISTAT OR HUMIDITY SENSOR
	WALL MOUNTED FAN SWITCH
	WALL MOUNTED TIME CLOCK
	DOOR GRILLE
	UNDERCUT DOOR 3/4"
	CONCRETE PAD
	POINT OF CONNECTION OR LIMIT OF SCOPE OF WORK
	CUBIC FEET PER MINUTE AIRFLOW
ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
BAS	BUILDING AUTOMATION SYSTEM
CFM	CUBIC FEET PER MINUTE
DA	DIAMETER
db	DRY BULB
DUAL TEMP	DUAL TEMPERATURE
DX	DIRECT EXPANSION
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
Edb	ENTERING DRY BULB
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATOR
Ewb	ENTERING WET BULB
FPM	FEET PER MINUTE
FT	FEET
H	HEIGHT
HP	HORSE POWER
IN	INCHES
IN. WG	INCHES WATER GAUGE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
Ldb	LEAVING DRY BULB
Lwb	LEAVING WET BULB
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
OA	OUTDOOR AIR
PD	PRESSURE DROP
PSIG	POUNDS PER SQUARE INCH GAUGE
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SQ. FT.	SQUARE FEET
TEMP	TEMPERATURE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
wb	WET BULB
°F	DEGREES FAHRENHEIT
ΔT	TEMPERATURE DIFFERENCE

ROOFTOP AIR CONDITIONING UNIT SCHEDULE										
MARK	CARRIER MODEL No.	SUPPLY CFM	OA CFM	TOTAL COOLING MBH	SENSIBLE COOLING MBH	APPROX. ESP IN WG	SUPPLY FAN HP	GAS HEAT MBH INPUT	MIN SEER/EER	NOTES
RTU-1	48TC-06	2000	135	62.3	46.7	0.50	1.0	90	14.0 SEER	1,2,3,4,5,6,7,8,9,10,11,12,15
RTU-2	48TC-06	2000	135	62.3	46.7	0.50	1.0	90	14.0 SEER	1,2,3,4,5,6,7,8,9,10,11,12,15
RTU-3	48TC-07	2400	200	75.2	58.1	0.60	1.5	90	14.0 SEER	1,2,3,4,5,6,7,8,9,10,11,12,15,17
RTU-4	48TC-07	2400	200	75.2	58.1	0.60	1.5	90	14.0 SEER	1,2,3,4,5,6,7,8,9,10,11,12,15,17
RTU-5	48TC-05	1600	150	47.0	32.9	0.50	1.0	90	14.0 SEER	1,2,3,4,5,6,7,8,9,10,11,12,15
RTU-6	48TC-08	3000	250	95.2	71.0	0.60	2.0	180	14.0 SEER	1,2,3,4,5,6,7,8,9,10,11,12,13,15,17
RTU-7	48TC-08	3000	250	95.2	71.0	0.60	2.0	180	14.0 SEER	1,2,3,4,5,6,7,8,9,10,11,12,13,15,17
RTU-8	NOT USED									
RTU-9	NOT USED									
RTU-10	48TC-12	4000	400	124.1	96.2	0.60	3.0	180	11.0 EER	1,2,3,4,5,6,8,9,10,11,12,14,16,17
RTU-11	48TC-14	6000	500	150.0	105.8	0.60	5.0	180	11.0 EER	1,2,3,4,5,6,8,9,10,11,12,14,16,17
RTU-12	48TC-14	6000	500	150.0	105.8	0.60	5.0	180	11.0 EER	1,2,3,4,5,6,8,9,10,11,12,14,16,17

- COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT 80° F db, 67° F wb AND 95° F AMBIENT AIR TEMPERATURE
- DOWN FLOW UNIT. PROVIDE FULL PERIMETER ROOF CURB. SEE DETAIL 1M002.
- PROVIDE WITH HINGED ACCESS PANELS
- PROVIDE WITH HOT GAS REHEAT DEMINIFICATION CYCLE
- PROVIDE WITH CONDENSER HAIL GUARDS
- ROUTE CONDENSATE DRAIN TO NEAREST ROOF DRAIN OR GUTTER. SEE DETAIL MM002.
- PROVIDE FOR THROUGH-CURB GAS PIPING
- PROVIDE FOR THROUGH-CURB ELECTRICAL WIRING
- PROVIDE 120V ELECTRICAL CONVENIENCE OUTLET
- PROVIDE FACTORY INSTALLED DISCONNECT OR CIRCUIT BREAKER
- ROOF SLOPE COMPENSATION TO BE ACHIEVED THROUGH ROOF CURB SLOPE. DO NOT SHIM ROOF CURB
- PROVIDE CARRIER I-VU CONTROLS COMPATIBLE WITH SCHOOL'S EMS
- PROVIDE RTU-6 AND RTU-7 AS ADDITIVE ALTERNATE #1
- PROVIDE RTU-10 THRU RTU-12 AS ADDITIVE ALTERNATE #2
- PROVIDE GLOBAL PLASMA SOLUTIONS AIR PURIFICATION UNIT, MODEL GPS-FC-3-BAS. MOUNT AFTER FILTER & BEFORE COOLING COIL
- PROVIDE TWO (2) GLOBAL PLASMA SOLUTIONS AIR PURIFICATION UNITS, MODEL GPS-FC-3-BAS. MOUNT AFTER FILTER & BEFORE COOLING COIL
- PROVIDE SMOKE DETECTOR IN SUPPLY DUCT

DUCTLESS SPLIT SYSTEM SCHEDULE							
MARK	INDOOR UNIT MITSUBISHI MODEL No.	OUTDOOR UNIT MITSUBISHI MODEL No.	EVAP CFM	TOTAL COOLING MBH	TOTAL HEATING MBH	SEER	NOTES
DSIU0S0U-1	MSZ-FE09NA	MUZ-FE09NA	343	9.0	10.9	26.0	1,2,3,4,5,6,7,8

- COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT 80° F db, 67° F wb AND 95° F AMBIENT AIR TEMPERATURE
- HEATING CAPACITIES BASED ON REVERSE-CYCLE HEAT PUMP OPERATION AT 47° F AMBIENT AIR TEMPERATURE
- HIGH SIDEWALL INDOOR UNIT
- SUPPLY AIRFLOW CFM BASED ON HIGH SPEED AND DRY COIL
- PROVIDE CONDENSATE PUMP IF REQUIRED
- PROVIDE LOW AMBIENT CONTROL
- PROVIDE REMOTE WALL MOUNTED THERMOSTAT
- PROVIDE CONCRETE PAD UNDER CONDENSING UNIT

WALL HUNG HEAT PUMP SCHEDULE									
MARK	BARD MODEL No.	SUPPLY CFM	OA CFM FROM ERV	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEAT OUTPUT MBH	ELEC HEAT KW	NOTES	
WHHP-1	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1,2,3,4,5,6,7,8,9	
WHHP-2	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1,2,3,4,5,6,7,8,9	
WHHP-3	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1,2,3,4,5,6,7,8,9	
WHHP-4	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1,2,3,4,5,6,7,8,9	
WHHP-5	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1,2,3,4,5,6,7,8,9	
WHHP-6	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1,2,3,4,5,6,7,8,9	
WHHP-7	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1,2,3,4,5,6,7,8,9	
WHHP-8	T30S1DB06R	900	200	28.0	21.2	27.8	6.0	1,2,3,4,5,6,7,8,9	

- COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT 80° F db, 67° F wb AND 95° F AMBIENT AIR TEMPERATURE
- HEAT PUMP HEATING CAPACITY AT 47° F
- PROVIDE HOT GAS REHEAT DEMINIFICATION
- PROVIDE AUXILIARY ELECTRIC HEATER OF CAPACITY SCHEDULED
- PROVIDE REMOTE WALL MOUNTED THERMOSTAT
- PROVIDE ENERGY RECOVER VENTILATOR WITH ROTARY CASSETTE
- PROVIDE CARRIER I-VU CONTROLS COMPATIBLE WITH SCHOOL'S EXISTING EMS
- INTEGRAL CIRCUIT BREAKER OR DISCONNECT
- PROVIDE GLOBAL PLASMA SOLUTIONS AIR PURIFICATION UNIT

EXHAUST FAN SCHEDULE							
MARK	GREENHECK MODEL No.	CFM	APPROX. ESP IN WG	FAN RPM	MOTOR HP	MAX SONES	NOTES
EF-1	G-123-VG	1300	0.375	1395	1/4	12	1,2,3,4
EF-4	G-088-VG	650	0.20	1490	1/8	10	1,2,3,4

- DIRECT DRIVE, SPEED CONTROLLER
- PROVIDE DISCONNECT SWITCH
- PROVIDE BACKDRIFT DAMPER
- ROOF CURB OR CURB ADAPTER REQUIRED

GRILLE SCHEDULE						
MARK	TITUS MODEL No.	FACE SIZE	NECK SIZE	SERVICE	FINISH	NOTES
(A)	TDC-AA	24x24	8"Ø	SUPPLY	WHITE	1,2,3,4
(B)	TDC-AA	24x24	10"Ø	SUPPLY	WHITE	1,2,3,4
(C)	TDC-AA	24x24	12"Ø	SUPPLY	WHITE	1,2,3,4
(D)	50F	24x24	---	RETURN	WHITE	7,8
(E)	300RS	16x12	---	SUPPLY	WHITE	3,5,6
(F)	300RS	24x14	---	SUPPLY	WHITE	3,5,6
(G)	3502R	30x16	---	RETURN	WHITE	6,10
(H)	350RS	24x42	22x40	RETURN	WHITE	3,5,6
(J)	TDC-AA	24x24	6"Ø	SUPPLY	WHITE	1,2,3,4
(K)	50F	24x48	---	RETURN	WHITE	7,8
(L)	33RS	50x26	48x24	RETURN	WHITE	3,5,6
(X)	EXISTING					9

- LOUVER FACE SUPPLY DIFFUSER
- IN 2x4x4 PANEL FOR LAY-IN T BAR CEILING
- PROVIDE STEEL OPPOSED BLADE BALANCING DAMPER
- ROUND NECK
- RECTANGULAR NECK
- FRONT BLADES PARALLEL TO THE SHORT DIMENSION
- 1/2"x1/2"x1/2" ALUMINUM EGG-CRATE CEILING REGISTER
- OPEN TO RETURN AIR FLENUM
- BALANCE TO CFM SHOWN
- 3/4" SPACING, 0" DEFLECTION

GAS UNIT HEATER SCHEDULE							
MARK	MODINE MODEL No.	MBH INPUT	AIR ΔT °F	CFM	WINTER CONDITIONS		NOTES
					EDB	LDB	
GUH-1	HDS-75	75.0	45.0	1160	40.0	85.0	1,2,3,4,5,6,7

- FLANGED TYPE GAS DUCT HEATER WITH INTEGRAL CONTROL BOX
- PROVIDE SEPARATED COMBUSTION KIT
- PROVIDE AIR PROVING SWITCH, OVER-TEMPERATURE CUT-OUT AND CONTROL CONTACTOR
- PROVIDE ELECTRONIC MODULATION CONTROLS
- PROVIDE BMS COMPATIBLE GAS CONTROLS
- MOUNT BOTTOM OF UNIT 12-0" AFF
- PROVIDE MOUNTING KIT TO MOUNT FROM ROOF STRUCTURE

- ### GENERAL DEMOLITION NOTES:
- FIELD VERIFY EXISTING CONDITIONS. LOCATION OF EXISTING EQUIPMENT, DUCT AND PIPE ROUTES MAY DEViate SLIGHTLY FROM WHAT IS SHOWN ON THE DRAWINGS.
 - WHERE EQUIPMENT, DUCTS AND PIPES, CONTROL DEVICES, CONDUITS, CABLES AND WIRING ARE DISCONNECTED FOR THE REMOVAL OF EQUIPMENT, THEY SHALL BE RECONNECTED, TESTED AND MADE OPERATIONAL.
 - UNLESS OTHERWISE NOTED, ALL MATERIALS & EQUIPMENT SHOWN OR SPECIFIED TO BE REMOVED SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE.
 - DO ANY AND ALL CUTTING AND PATCHING REQUIRED FOR THIS SCOPE OF WORK, RESTORING ALL SURFACES TO THEIR ORIGINAL CONDITION TO MATCH SURROUNDING FINISHES. ALTERATIONS TO ANY STRUCTURAL MEMBER, EITHER STEEL OR CONCRETE, SHALL REQUIRE THE APPROVAL OF THE OWNER.
 - REMOVE ALL SUPPORTING FACILITIES NO LONGER NEEDED OR MADE OBSOLETE BY THE NEW EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT. SUCH REMOVAL INCLUDES, BUT IS NOT LIMITED TO, SUPPORT BRACKETS AND ATTACHMENTS, ABANDONED PIPING SUPPORT BRACKETS AND ATTACHMENTS. REMOVAL OF PIPING SHALL INCLUDE ASSOCIATED VALVES, WELDED SUPPORTS SHALL BE REMOVED FLUSH WITH SURFACE, SURFACE SHALL BE GROUND SMOOTH, CLEANED PRIMED AND PAINTED TO MATCH SURROUNDING FINISH.
 - AFTER EXISTING PIPING AND DUCTWORK ARE REMOVED, PATCH THE EXISTING FLOOR OR WALL OPENINGS TO MATCH SURROUNDING SURFACES AND MAINTAIN THE FIRE RATING.
 - WHERE EQUIPMENT IS SHOWN TO BE REMOVED IT SHALL BE REMOVED COMPLETE WITH ASSOCIATED PIPING, CONTROLS AND ASSOCIATED CONDUITS AND WIRING.
 - "VERIFY" SHALL MEAN CHECK EXISTING AS-INSTALLED CONDITIONS AGAINST DRAWINGS AND SPECIFICATION AND ADJUST NEW WORK TO MATCH EXISTING. OBTAIN RULING FROM THE OWNER CONTRACTING OFFICER ON ANY ITEMS REQUIRING CLARIFICATION.
 - BEFORE REMOVAL OF ANY SERVICES SUCH AS PIPING, LABEL EACH EXISTING PIPE AT THE POINT OF RECONNECTION BETWEEN EXISTING AND NEW SERVICES TO ENSURE PROPER RECONNECTION WITHOUT CROSSOVERS.

- ### GENERAL NOTES:
- VERIFY ALL SIZES, MATERIALS, TEMPERATURES AND PRESSURES BEFORE ORDERING OR FABRICATION OF ANY MATERIALS.
 - MECHANICAL DRAWINGS DO NOT SPECIFY VOLTAGES OF MECHANICAL EQUIPMENT. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGES AND MECHANICAL EQUIPMENT ELECTRICAL LOADS. VERIFY ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT BEFORE ORDERING EQUIPMENT.
 - REFER TO EACH DRAWING FOR NOTES SPECIFIC TO THAT DRAWING SHEET.
 - ALL PENETRATIONS THROUGH EXISTING FIRE RATED WALLS, PARTITIONS AND FLOOR SLABS SHALL BE FIRE STOPPED TO MAINTAIN THE FIRE RATING OF OF THE EXISTING WALL, PARTITION OR FLOOR SLAB.
 - ALL FRESH AIR INTAKES SHALL BE MINIMUM 10 FT AWAY FROM ANY BUILDING GENERAL EXHAUST AND PLUMBING VENTS, AND MINIMUM 15 FT AWAY FROM FLUES AND GREASE EXHAUST.
 - WHEN ROOF MOUNTED MECHANICAL EQUIPMENT DEVIATES FROM THE BASIS OF DESIGN, COORDINATE ORIENTATION AND LOCATION OF THE OUTDOOR AIR INTAKE OF THE EQUIPMENT WITH EXHAUST FANS, PLUMBING VENTS AND GAS VENTS. ALLOW CLEARANCES AS INDICATED ABOVE.



5191 Columbus Rd.
Macon, GA 31206
(P)478.477.7465
(F)478.477.9511
frontdesk@spdesignpr.com



Ingram-Pye ES-611-3067

SPENCER BRISTOL Engineering, Inc.
2625 Peachtree Parkway, Suite 100
Norcross, Georgia 30092
Tel: 770.414.6024
Fax: 770.414.6024
SBE Project No. 1704



LOCAL FUNDS ONLY
BIBB BOE BID # 17-27

REVISION
MAY 10, 2017

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR MODIFICATION OF THIS DRAWING FOR OTHER PROJECTS OR SUBSEQUENT TO THIS PROJECT WITHOUT THE WRITTEN OR E-MAIL CONSENT BY ARCHITECTURAL WRITING AND ENGINEERING CONSULTANTS IS PROHIBITED.

HVAC RENOVATIONS TO
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO.
17-006

SHEET TITLE
MECHANICAL
LEGEND, NOTES AND
SCHEDULES

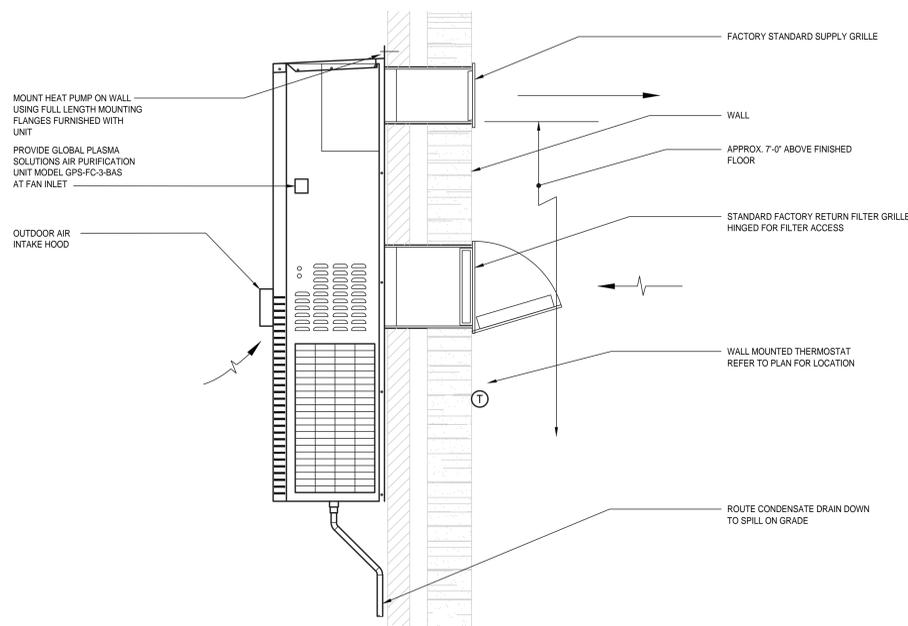
DATE
APRIL 18, 2017

DRAWN BY
SPJ

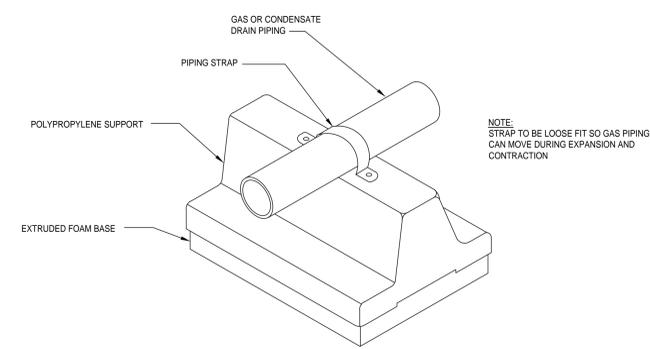
CHECKED BY
VM

SHEET NUMBER

M001

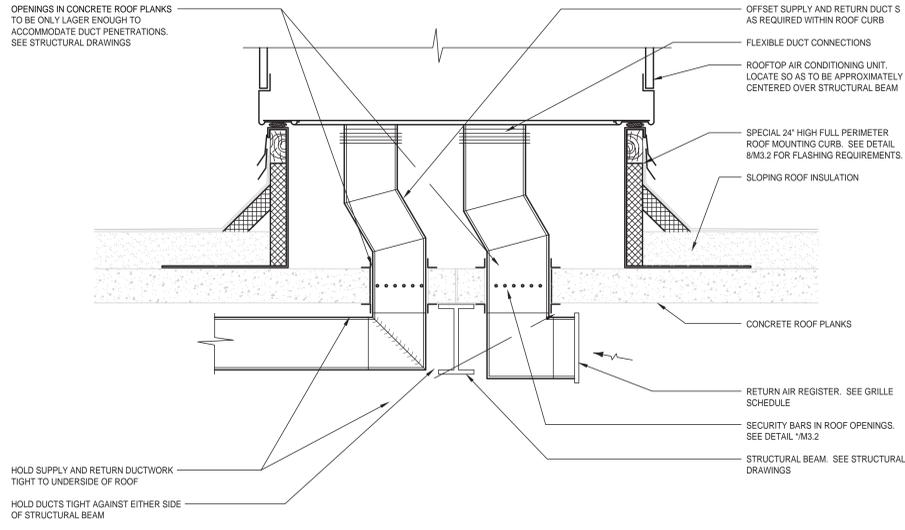


1 WALL MOUNT HEAT PUMP DETAIL
SCALE: NO SCALE

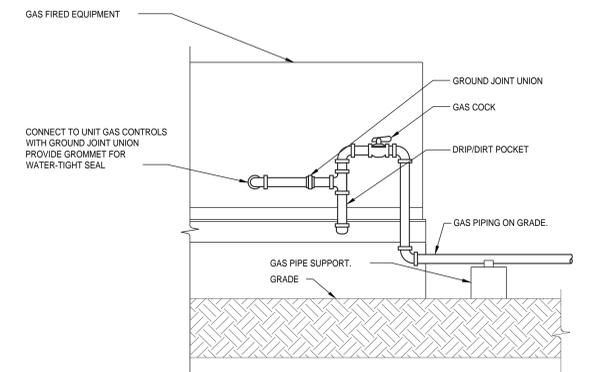


4 ROOF GAS PIPING SUPPORT DETAIL
SCALE: NO SCALE

REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPACING REQUIREMENTS AND STRAPPING FOR ELEVATION CHANGES. MANUFACTURED BY A BETTER IDEA INC. OR APPROVED EQUAL.

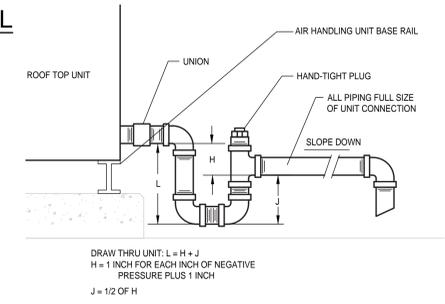


2 RTU MOUNTING DETAIL
SCALE: NO SCALE

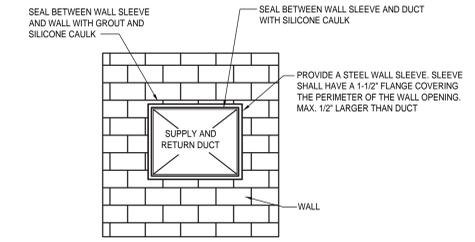


3 TYPICAL GAS CONNECTION DETAIL
SCALE: NO SCALE

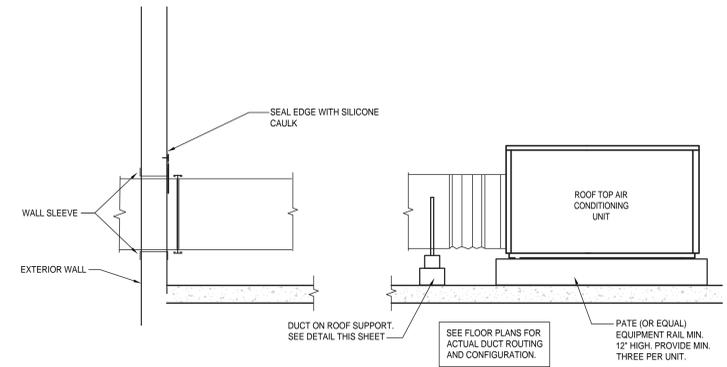
NOTE: CONTRACTOR SHALL VERIFY ALL MECHANICAL GAS FIRED EQUIPMENT CONNECTION LOCATIONS IN THE FIELD PRIOR TO INSTALLING ANY GAS PIPE MAINS OR BRANCHES.



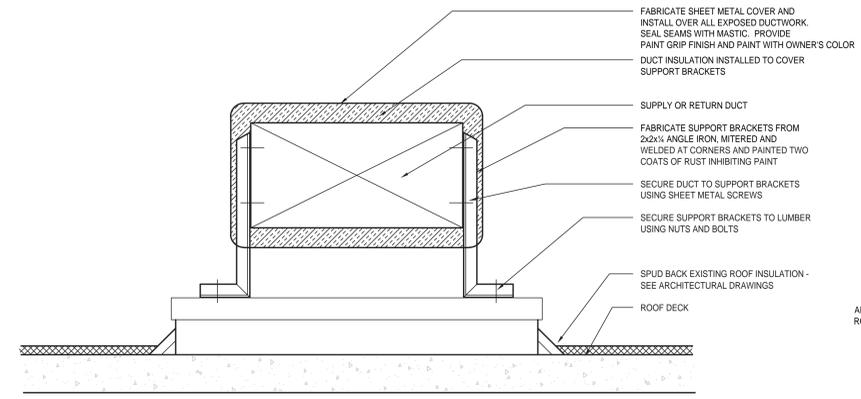
5 CONDENSATE DRAIN CONNECTION
SCALE: NO SCALE



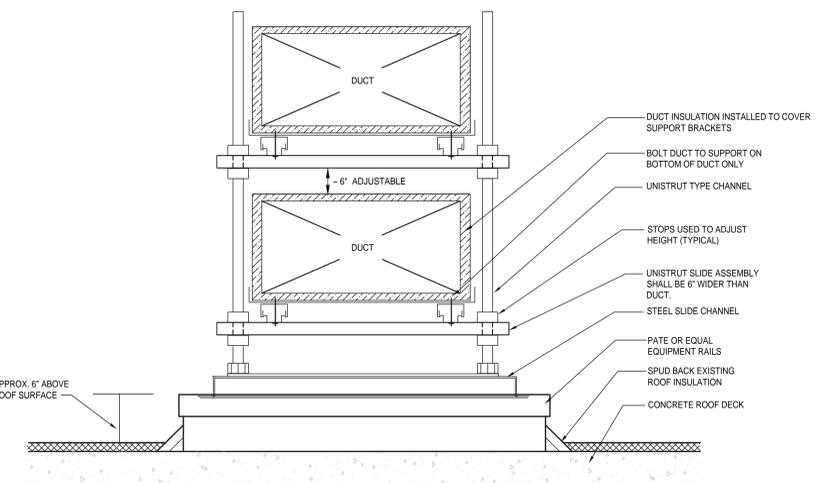
6 DUCT WALL PENETRATION DETAIL
SCALE: NO SCALE



7 EXTERIOR DUCT INSTALLATION DETAIL (GYM RTU)
SCALE: NO SCALE



8 SINGLE DUCT SUPPORT ABOVE ROOF
SCALE: NONE



9 MULTIPLE DUCT SUPPORTS ABOVE ROOF
SCALE: NO SCALE

SPDG
Architects and Engineers Inc.

5191 Columbus Rd.
Macon, GA 31206
(P)478.477.7465
(F)478.477.9511
frontdesk@spdesigngrp.com

5191 Columbus Rd.
Macon, GA 31206
(P)478.477.7465
(F)478.477.9511
frontdesk@spdesigngrp.com

SPENCER BRISTOL ENGINEERING, INC.
2625 Puchner Parkway, Suite 100
Norcross, Georgia 30092
Tel: 770.444.8028
Fax: 770.414.4024
SBE Project No. 1704

LOCAL FUNDS ONLY
BIBB BOE BID # 17-27

REVISION
MAY 10, 2017

HVAC RENOVATIONS TO
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO.
17-006

SHEET TITLE
MECHANICAL DETAILS

DATE
APRIL 18, 2017

DRAWN BY
SPJ

CHECKED BY
VM

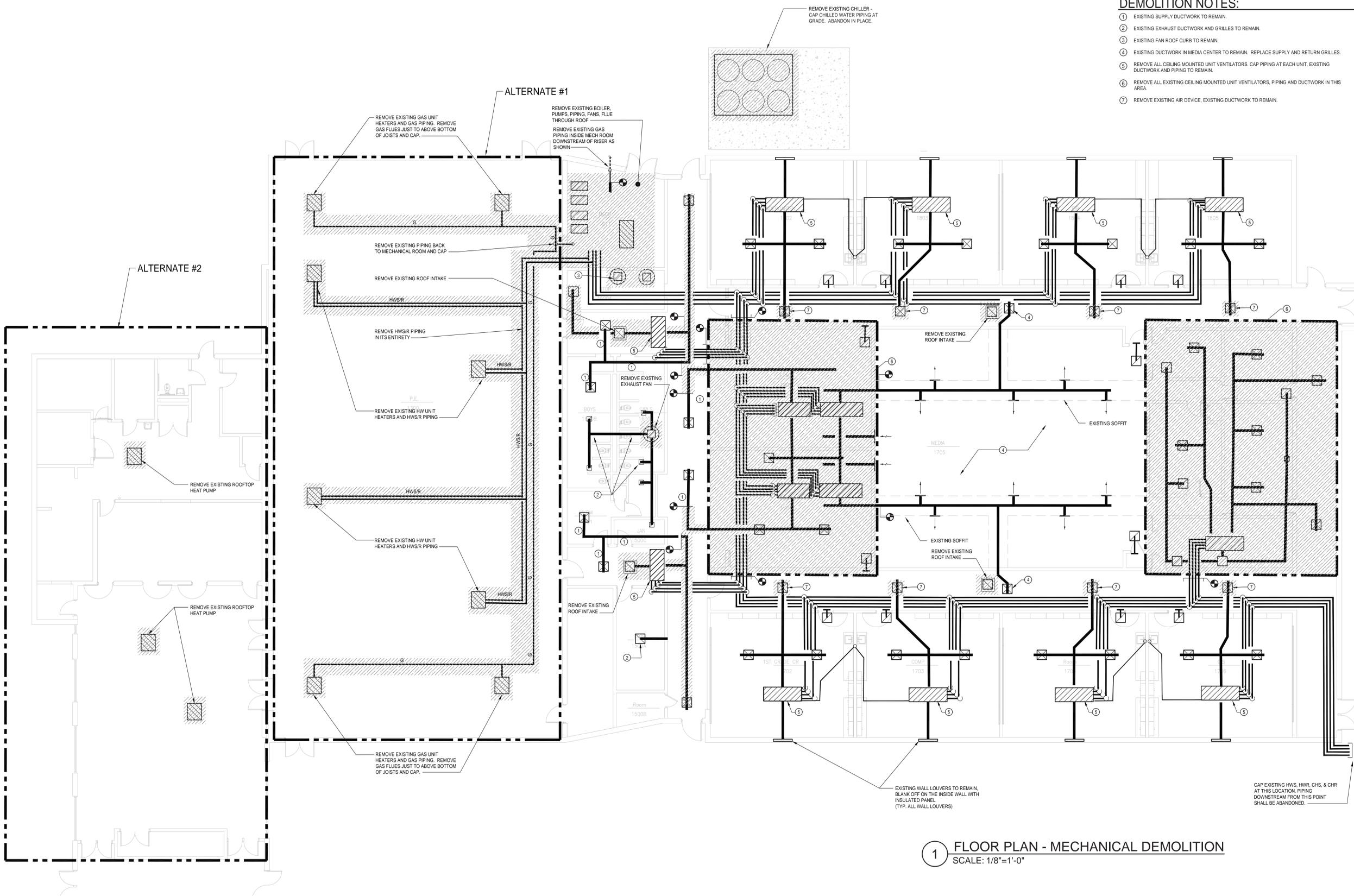
SHEET NUMBER
M002

NOTES:

BIBB COUNTY PERSONNEL WILL RECOVER REFRIGERANT R-22 PRIOR TO CONSTRUCTION. COORDINATE TIMING WITH START OF CONSTRUCTION.

DEMOLITION NOTES:

- ① EXISTING SUPPLY DUCTWORK TO REMAIN.
- ② EXISTING EXHAUST DUCTWORK AND GRILLES TO REMAIN.
- ③ EXISTING FAN ROOF CURB TO REMAIN.
- ④ EXISTING DUCTWORK IN MEDIA CENTER TO REMAIN. REPLACE SUPPLY AND RETURN GRILLES.
- ⑤ REMOVE ALL CEILING MOUNTED UNIT VENTILATORS. CAP PIPING AT EACH UNIT. EXISTING DUCTWORK AND PIPING TO REMAIN.
- ⑥ REMOVE ALL EXISTING CEILING MOUNTED UNIT VENTILATORS, PIPING AND DUCTWORK IN THIS AREA.
- ⑦ REMOVE EXISTING AIR DEVICE, EXISTING DUCTWORK TO REMAIN.



1 FLOOR PLAN - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"



5191 Columbus Rd.
Macon, GA 31206
(F)478.477.7465
(F)478.477.9511
frontdesk@spdesigngrp.com



Ingram-Pye ES-611-3067

SPENCER BRISTOL ENGINEERING, INC.
2625 Peachtree Parkway, Suite 100
Norcross, Georgia 30092 Fax: 770-414-6074
Tel: 770-414-6074
www.spdesigngrp.com
SBE Project No. 1704



LOCAL FUNDS ONLY
BIBB BOE BID # 17-27

REVISION
MAY 10, 2017

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON AND IS NOT TO BE REPRODUCED OR USED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE WRITTEN PERMISSION OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC.

HVAC RENOVATIONS TO
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO.
17-006

SHEET TITLE
INGRAM-PYE
FLOOR PLAN -
MECHANICAL DEMOLITION

DATE
APRIL 18, 2017

DRAWN BY
SPJ

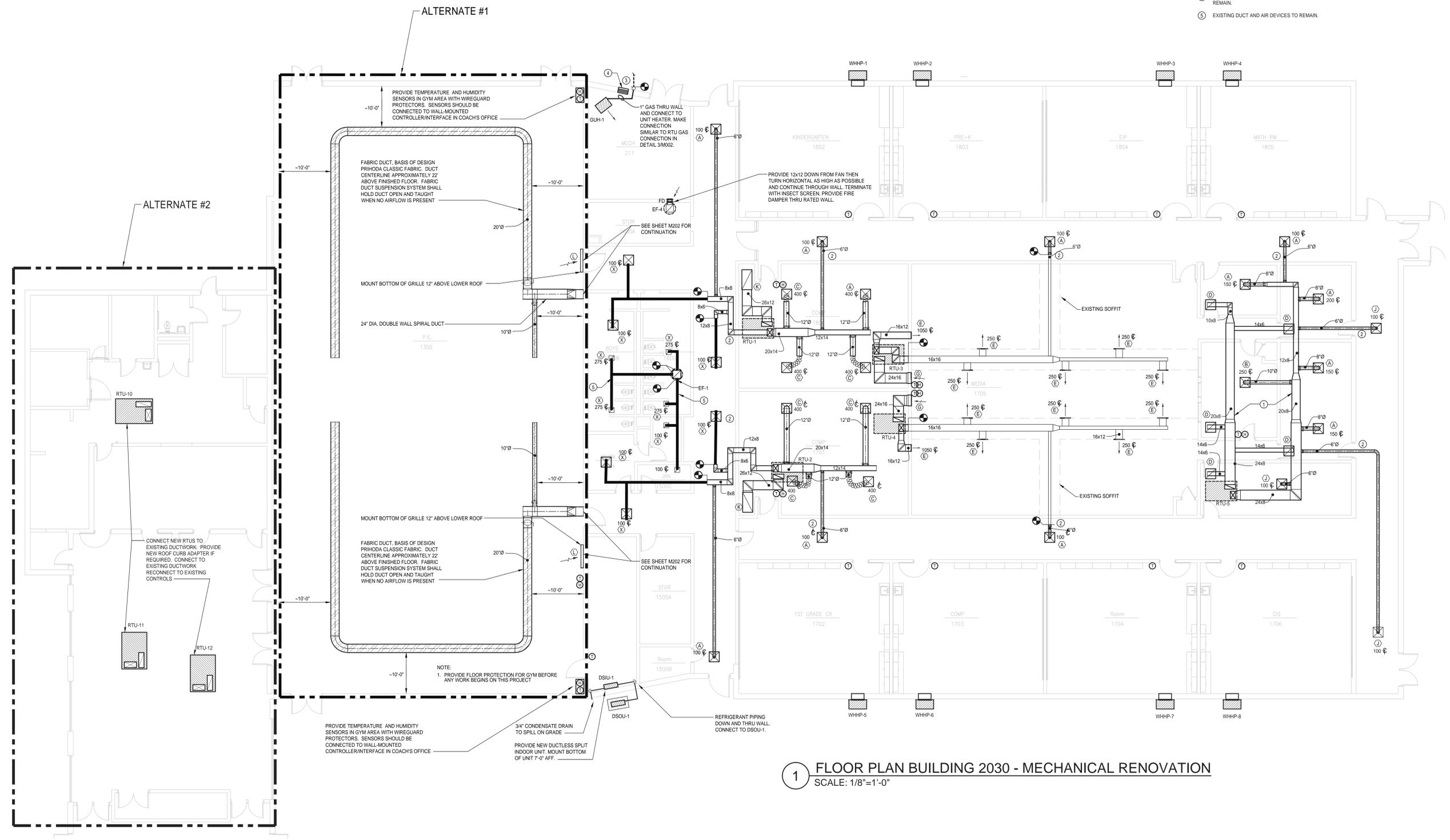
CHECKED BY
VM

SHEET NUMBER

M101

KEY NOTES:

- ① COORDINATE EXACT ROUTING OF SUPPLY AND RETURN DUCT FOR RTU-5.
- ② ALL DUCTWORK PENETRATING EXISTING CORRIDOR WALLS MUST BE SEALED TO MAINTAIN WALL RATING INTEGRITY.
- ③ 3" GAS PIPE UP ON EXTERIOR WALL. CONNECT TO EXISTING GAS PIPING AT THIS LOCATION.
- ④ BLANK OFF EXISTING LOWER WALL LOUVER AND SEAL AIR TIGHT. EXISTING UPPER LOUVER TO REMAIN.
- ⑤ EXISTING DUCT AND AIR DEVICES TO REMAIN.



1 FLOOR PLAN BUILDING 2030 - MECHANICAL RENOVATION
SCALE: 1/8"=1'-0"



Architects and Engineers Inc.
5191 Columbus Rd.
Macon, GA 31206
(P)478.477.7465
(F)478.477.9511
frontdesk@spdesignpr.com



Ingram-Pye ES-611-3067

SPENCER BRISTOL ENGINEERING, INC.
2625 Puchner Parkway, Suite 100
Norcross, Georgia 30092
Tel: 770.444.6074
Fax: 770.414.4074
SBE Project No. 1704



LOCAL FUNDS ONLY
BIBB BOE BID # 17-27

REVISION
MAY 10, 2017

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS.

HVAC RENOVATIONS
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO.
17-006

SHEET TITLE
INGRAM-PYE
FLOOR PLAN MECHANICAL
RENOVATION

DATE
APRIL 18, 2017

DRAWN BY
SPJ

CHECKED BY
VM

SHEET NUMBER

M201



Ingram-Pye ES-611-3067

SPENCER BRISTOL ENGINEERING, INC.
2625 Peachtree Parkway, Suite 100
Norcross, Georgia 30092
Tel: 770.477.4624 Fax: 770.414.4074
www.spdesigngrp.com SBE Project No. 1704



LOCAL FUNDS ONLY
BIBB BOE BID # 17-27

REVISION
MAY 10, 2017

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC.

HVAC RENOVATIONS
TO
INGRAM-PYE ELEMENTARY
FOR THE BIBB COUNTY BOARD OF EDUCATION
BIBB COUNTY GEORGIA

PROJECT NO.
17-006

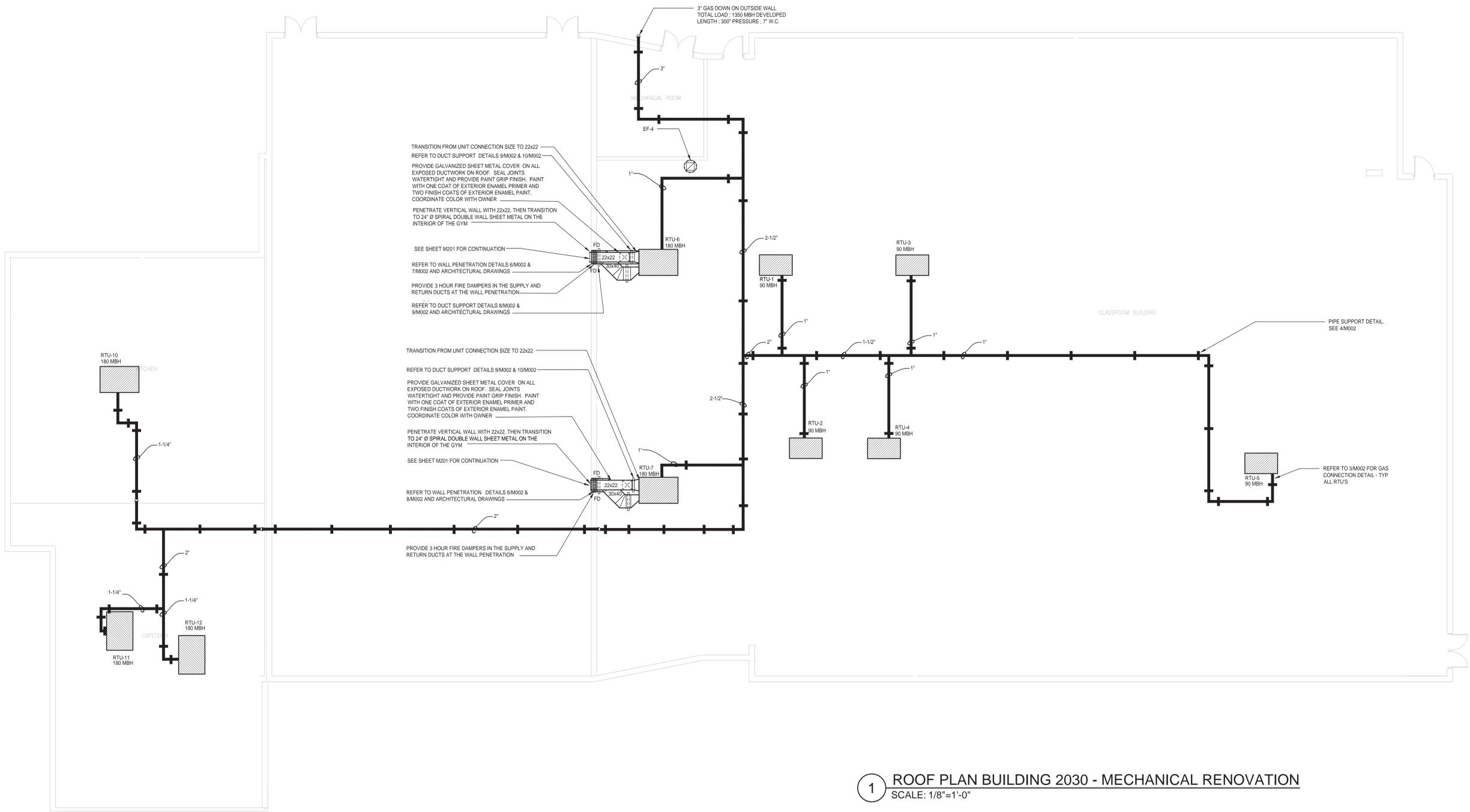
SHEET TITLE
INGRAM-PYE
ROOF PLAN MECHANICAL
RENOVATION

DATE
APRIL 18, 2017

DRAWN BY
SPJ

CHECKED BY
VM

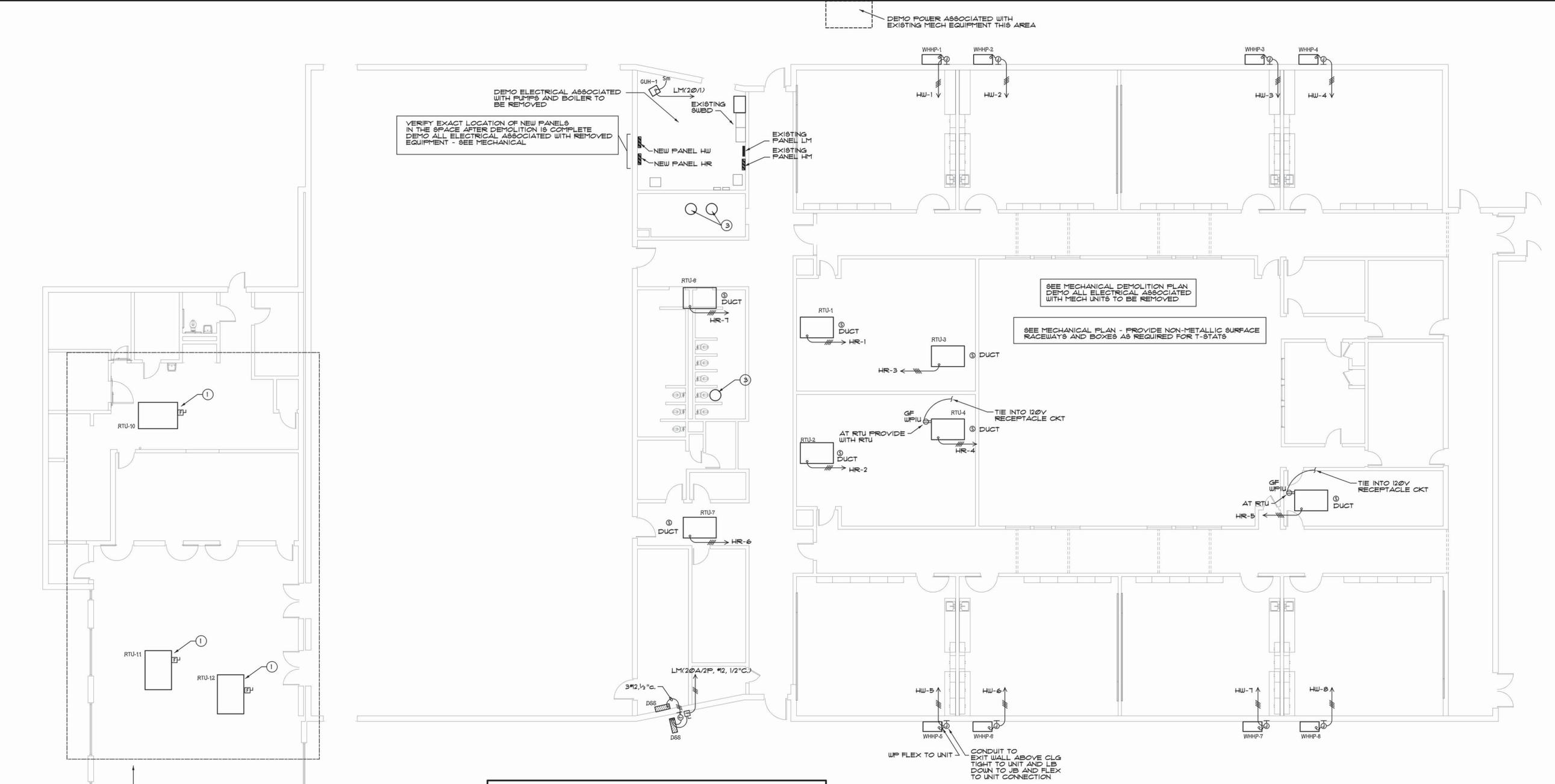
SHEET NUMBER
M202



1 ROOF PLAN BUILDING 2030 - MECHANICAL RENOVATION
SCALE: 1/8"=1'-0"

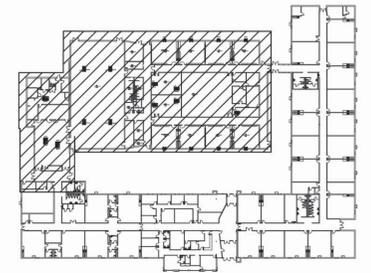
FLOOR PLAN NOTES:

- ① GAS PIPING: PROVIDE SUPPORTS MAX 8' APART AND WITHIN 3' FROM EACH ELBOW.
- ② CONDENSATE DRAIN: PROVIDE 1" PVC, TRAPPED CONDENSATE DRAIN PIPING FROM ROOFTOP UNIT TO CLOSET ROOF DRAIN OR GUTTER. PROVIDE PIPE SUPPORTS AT EVERY 6' AND WITHIN 2' FROM EACH ELBOW. REFER TO 4M002 FOR PIPE SUPPORT DETAIL.



- NOTES**
- EXISTING RTU TO BE REPLACED WITH NEW UNIT IN SAME LOCATION. CONFIRM ELECTRIC COORDINATION WITH NEW UNIT. REUSE EXISTING POWER SUPPLY. MODIFY AS REQUIRED FOR NEW UNIT. INSTALL NEW FUSED DISCONNECT WITH FUSING PER NEW UNIT REQUIREMENTS.
 - ADD FIRE ALARM DEVICES INDICATED. MODIFY EXISTING FIRE ALARM PANEL AS REQUIRED.
 - NEW FAN TO REPLACE EXISTING IN SAME LOCATION. REUSE EXISTING CIRCUIT - PROVIDE NEW DISCONNECT IF REQUIRED.

ELECTRICAL FLOOR PLAN
SCALE: 1/8" = 1' - 0"



PANELBOARD SCHEDULE							
PANEL	CKT #	CIRCUIT BREAKER	SERVICE	KW	WIRES	COND	
HW 480Y/277V 3P, 4W 225A MLO SURFACE NEMA 1 14KAIC	1-8	20A/3P	WHP-1 THRU 8	56.0	10	1/2	
	9-16	20A/1P	SPARES	-	-	-	
	17-25	--A/1P	SPACES ONLY	-	-	-	

PANELBOARD SCHEDULE							
PANEL	CKT #	CIRCUIT BREAKER	SERVICE	KW	WIRES	COND	
HR 480Y/277V 3P, 4W 225A MLO SURFACE NEMA 1 14KAIC	12	20A/3P	RTU-1, RTU-2	29.0	12	1/2	
	3,4	25A/3P	RTU-3, RTU-4	25.0	12	1/2	
	5	15A/3P	RTU-5	10.0	12	1/2	
	6,7	30A/3P	RTU-6 & 7	20.0	10	1/2	
	8-24	20A/1P	SPARES	--	--	--	

