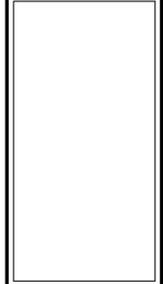




Architects and Engineers Inc.

5191 Columbus Rd.
Macon, GA 31206
(747) 477-7465
(747) 477-9511
frontdesk@spdesigngrp.com



REVISION

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE IDENTIFIED HEREIN AND IS NOT TO BE USED ON OTHER PROJECTS OR SITES WITHOUT THE WRITTEN PERMISSION OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. ANY REPRODUCTION OF THIS PROJECT OR REPRODUCTION OF ANY PART THEREOF WITHOUT THE WRITTEN PERMISSION OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IS PROHIBITED.

HVAC ADDITIONS
 BIBB COUNTY MIDDLE SCHOOLS
 for the
 Bibb County School District
 Macon, Georgia

PROJECT NO.
16-014

SHEET TITLE

DATE
AUGUST 3, 2016

DRAWN BY

CHECKED BY

SHEET NUMBER

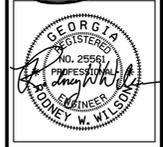
T1

HVAC ADDITIONS

BIBB COUNTY MIDDLE SCHOOLS

for the
 Bibb County School District
 Macon, Georgia

T1	TITLE SHEET
AE1.1	BALLARD HUDSON - OVERALL EXIST. PLAN & PARTIAL POWER FLOOR PLAN
AE2.1	HG WEAVER - PARTIAL POWER PLAN @ GYM
AE3.1	HOWARD - OVERALL EXIST. PLAN & PARTIAL POWER PLAN @ GYM
AE4.1	RUTLAND - OVERALL EXIST. PLAN & PARTIAL POWER PLAN @ GYM
M0.1	MISCELLANEOUS DETAILS
M1.1	BALLARD HUDSON - MECHANICAL DEMOLITION PLAN
M1.2	HOWARD - MECHANICAL DEMOLITION PLAN
M1.3	RUTLAND - MECHANICAL DEMOLITION PLAN
M1.4	WEAVER - MECHANICAL DEMOLITION PLAN
M2.1	BALLARD HUDSON - MECHANICAL NEW WORK PLAN
M2.2	HOWARD - MECHANICAL NEW WORK PLAN
M2.3	RUTLAND - MECHANICAL NEW WORK PLAN
M2.4	HG WEAVER - MECHANICAL NEW WORK PLAN



BALLARD HUDSON

REVISION

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND PURPOSE SPECIFICALLY IDENTIFIED HEREIN AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. ANY REPRODUCTION OR COPIING OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IS PROHIBITED.

HVAC ADDITIONS
BIBB COUNTY MIDDLE SCHOOLS
for the
Bibb County School District
Macon, Georgia

PROJECT NO.
16-014

SHEET TITLE

DATE
AUGUST 3, 2016

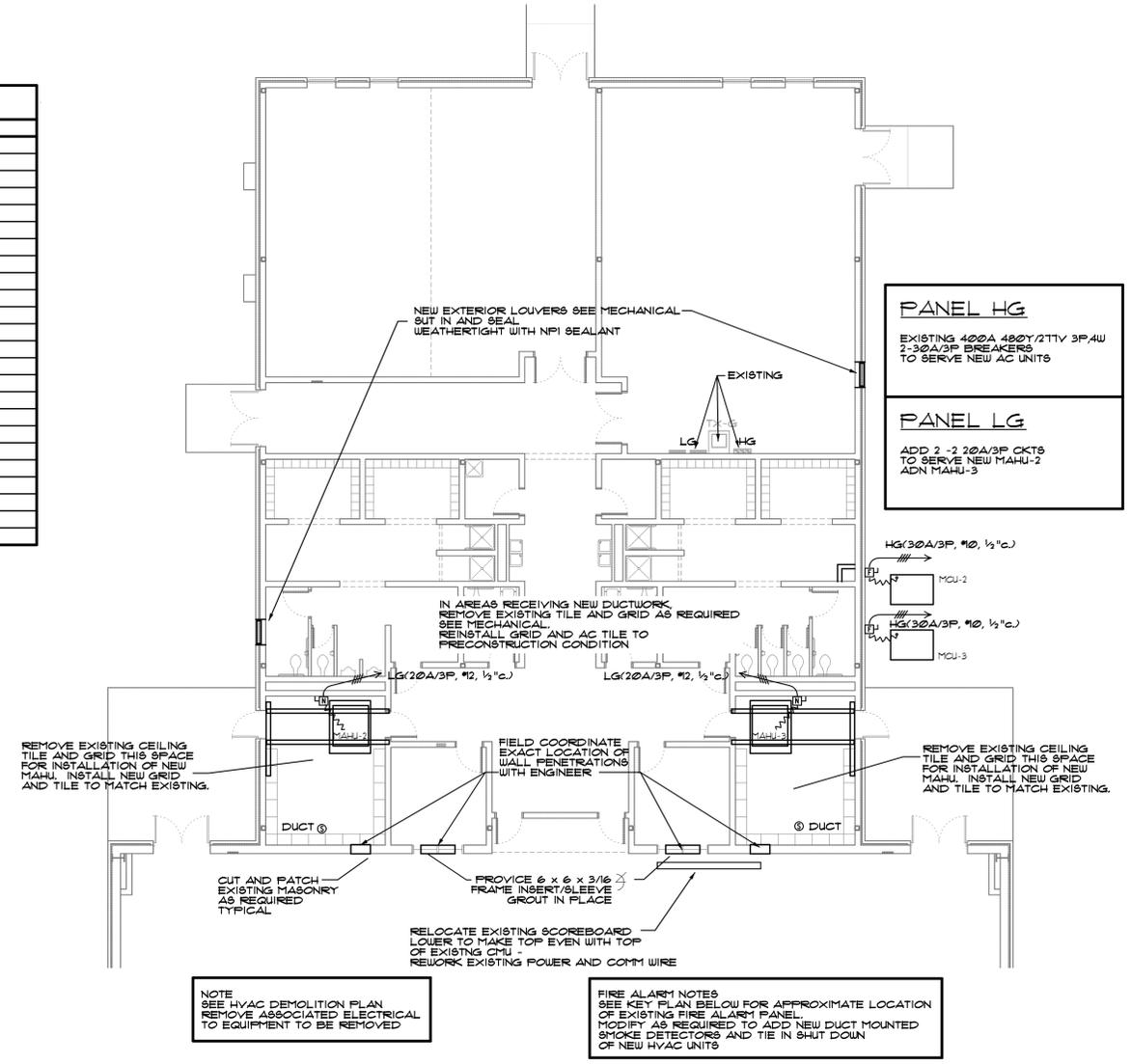
DRAWN BY

CHECKED BY

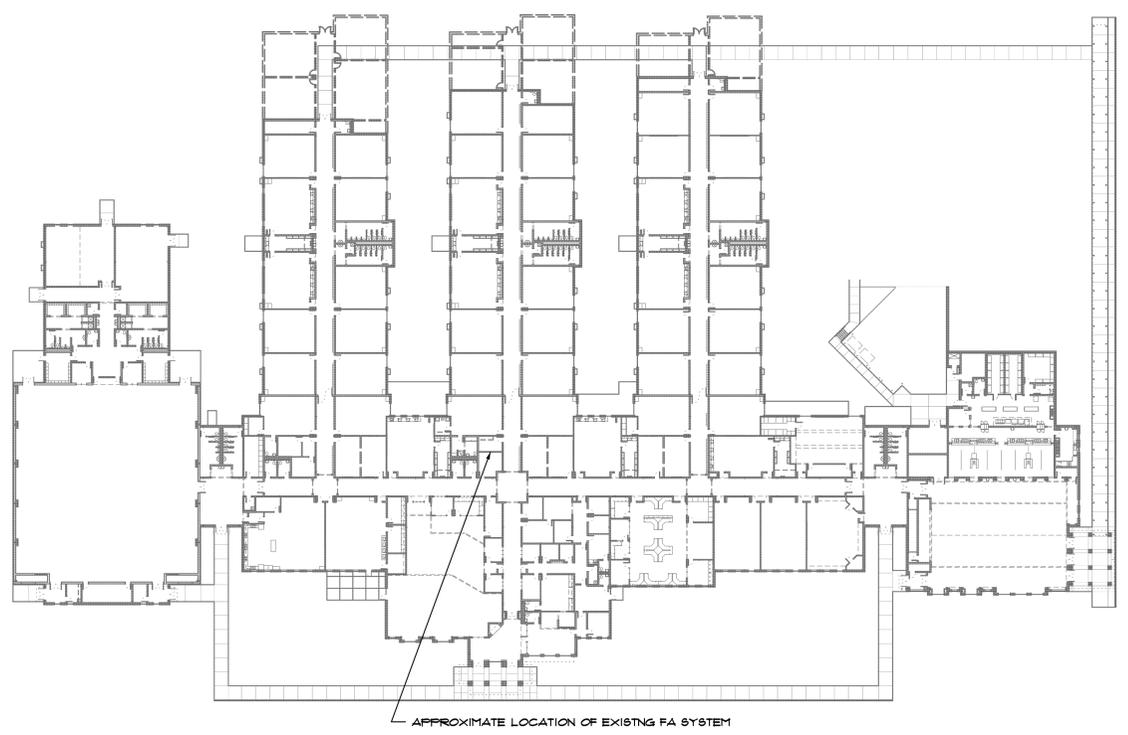
SHEET NUMBER

AE1.1

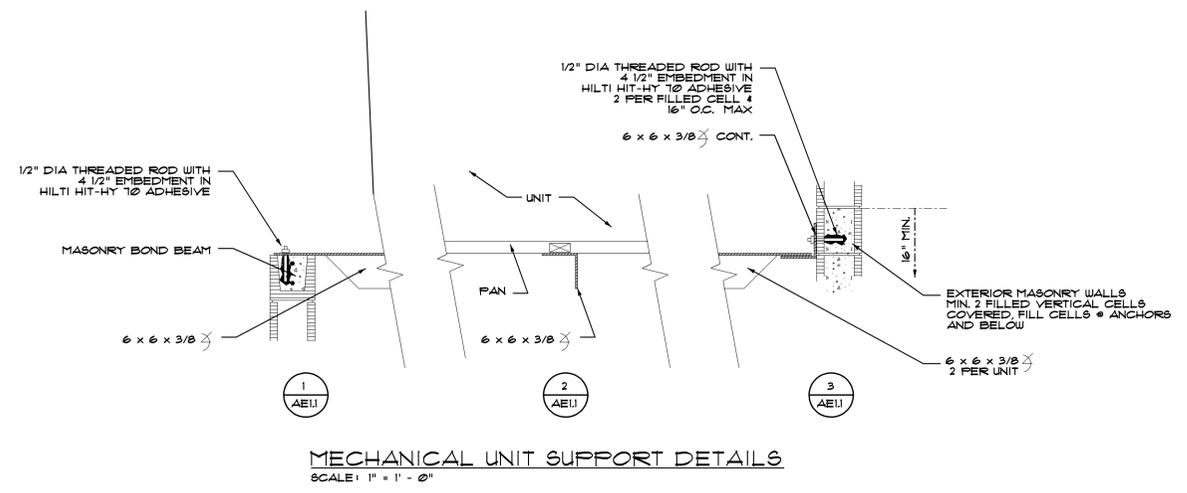
LEGEND	
SYMBOL	DESCRIPTION
	WIRING IN CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	WIRING IN CONDUIT CONCEALED IN OR BELOW SLAB
	WIRING IN EXPOSED CONDUIT
	WIRING IN FLEXIBLE CONDUIT
	ONE CONDUCTOR PER CROSSHATCH - TWO IF NOT INDICATED
	HOMERUN TO PANEL - ONE CIRCUIT PER ARROW
	FUSED DISCONNECT
	NONFUSED DISCONNECT
	SMOKE DETECTOR - CLG MOUNTED
	SMOKE DETECTOR - DUCT MOUNTED
	JUNCTION BOX - CEILING MOUNTED
	JUNCTION BOX - WALL MOUNTED
	CONDUIT STUB-UP
	SINGLE POLE SINGLE THROW (SPST) - WALL MOUNTED
	SINGLE POLE - MOTOR RATED
	POWER PANEL 208Y/120V
	DISTRIBUTION PANEL/PANELBOARD 480Y/277V
	FIRE ALARM PANEL
MH	MOUNTING HEIGHT
WP	WEATHERPROOF
GF	GROUND FAULT

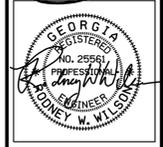


A PARTIAL POWER & MISC FLOOR PLAN
SCALE: 1/8" = 1' - 0"



B OVERALL EXISTING FLOOR PLAN
SCALE - NONE





HG WEAVER.

REVISION

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND PURPOSES SPECIFICALLY IDENTIFIED HEREIN AND 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, INC.

HVAC ADDITIONS
for the
BIBB COUNTY MIDDLE SCHOOLS
Bibb County School District
Macon, Georgia

PROJECT NO.
16-014

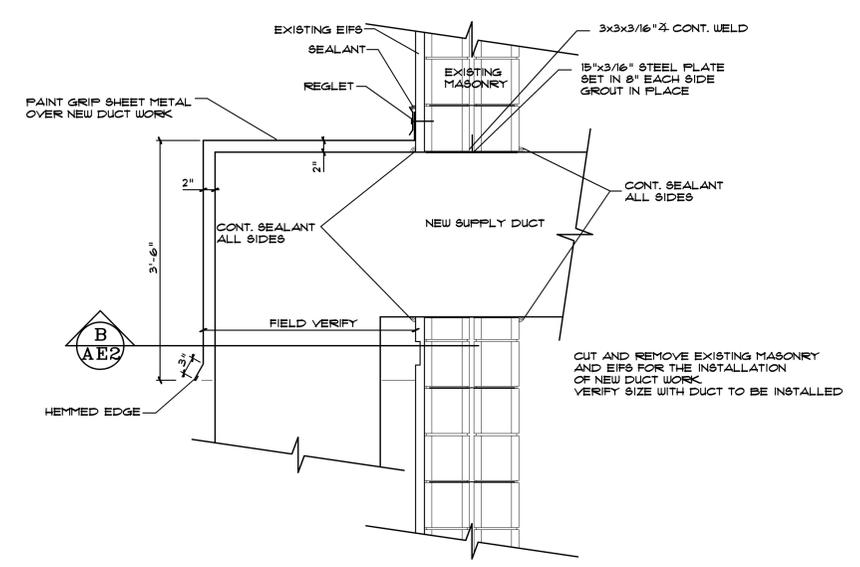
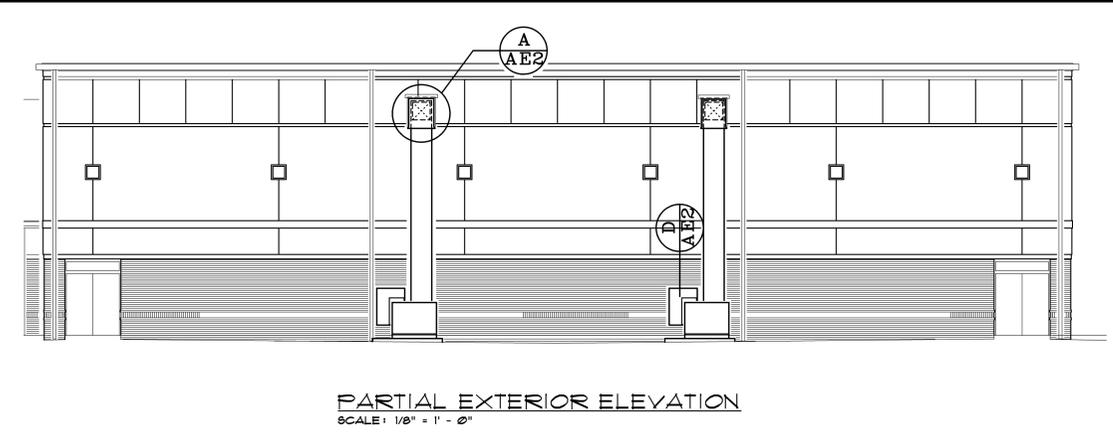
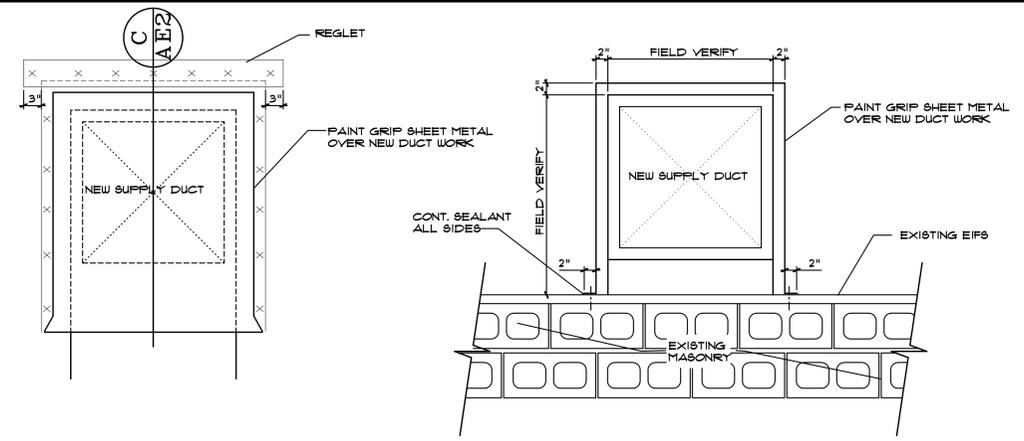
SHEET TITLE

DATE
AUGUST 3, 2016

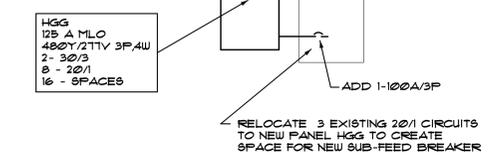
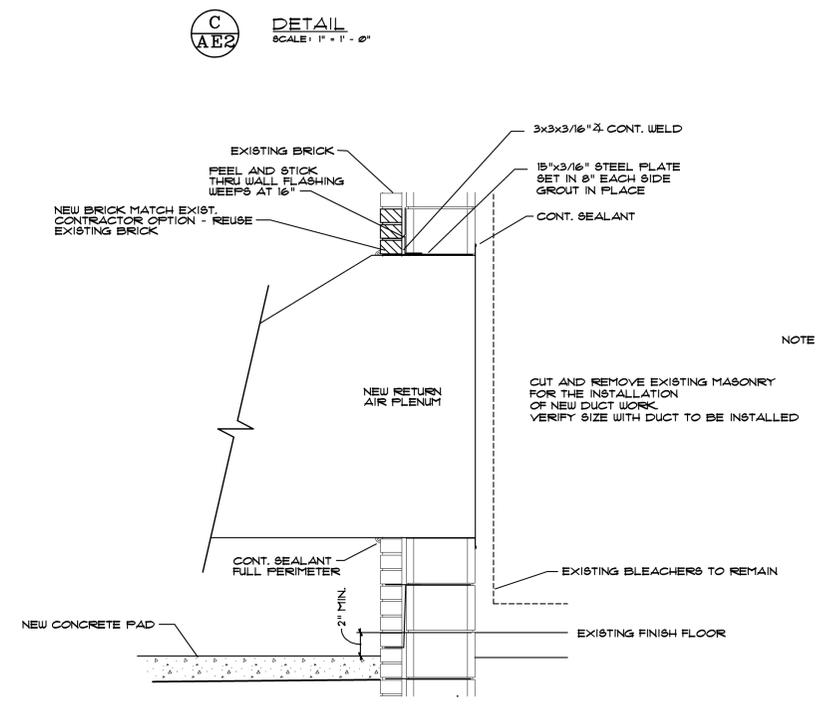
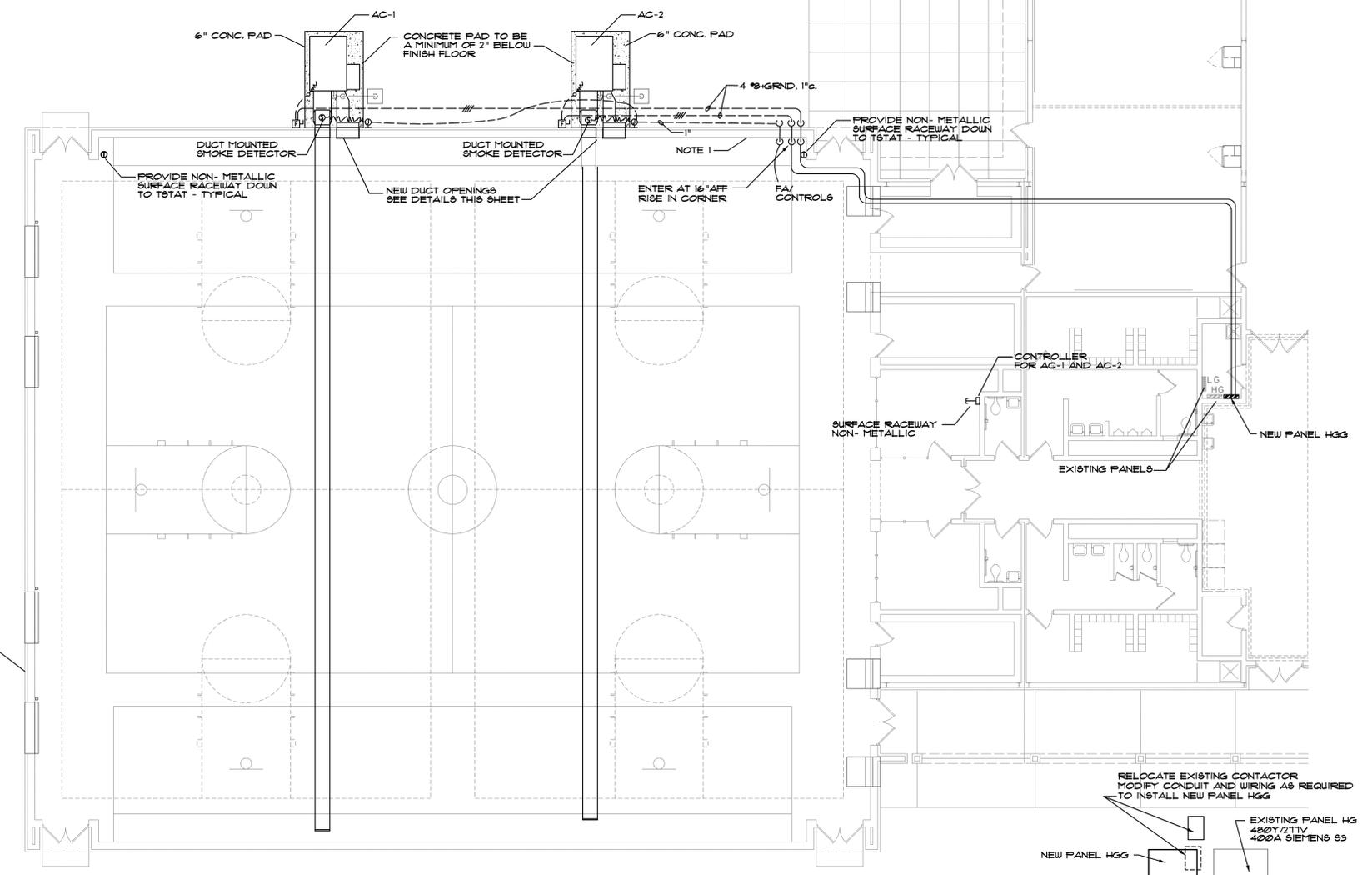
DRAWN BY

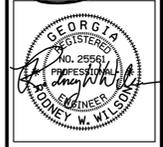
CHECKED BY

SHEET NUMBER
AE2.1



NOTE:
1. PATCH AND REPAIR EXTERIOR WALLS WHERE GAS FLUES WERE REMOVE. PATCH USING PAINT GRIP SHEET METAL BOTH SIDES. FILL CAVITY WITH BATT INSULATION. PAINT TO MATCH.





HOWARD

REVISION

THIS DRAWING IS THE PROPERTY OF SPDG GROUP INCORPORATED AND THE HEREIN IS TO BE USED ONLY FOR THE PROJECT AND PURPOSE SPECIFICALLY IDENTIFIED HEREIN AND 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 SPDG GROUP INCORPORATED.

HVAC ADDITIONS
for the
BIBB COUNTY MIDDLE SCHOOLS
Bibb County School District
Macon, Georgia

PROJECT NO.
16-014

SHEET TITLE

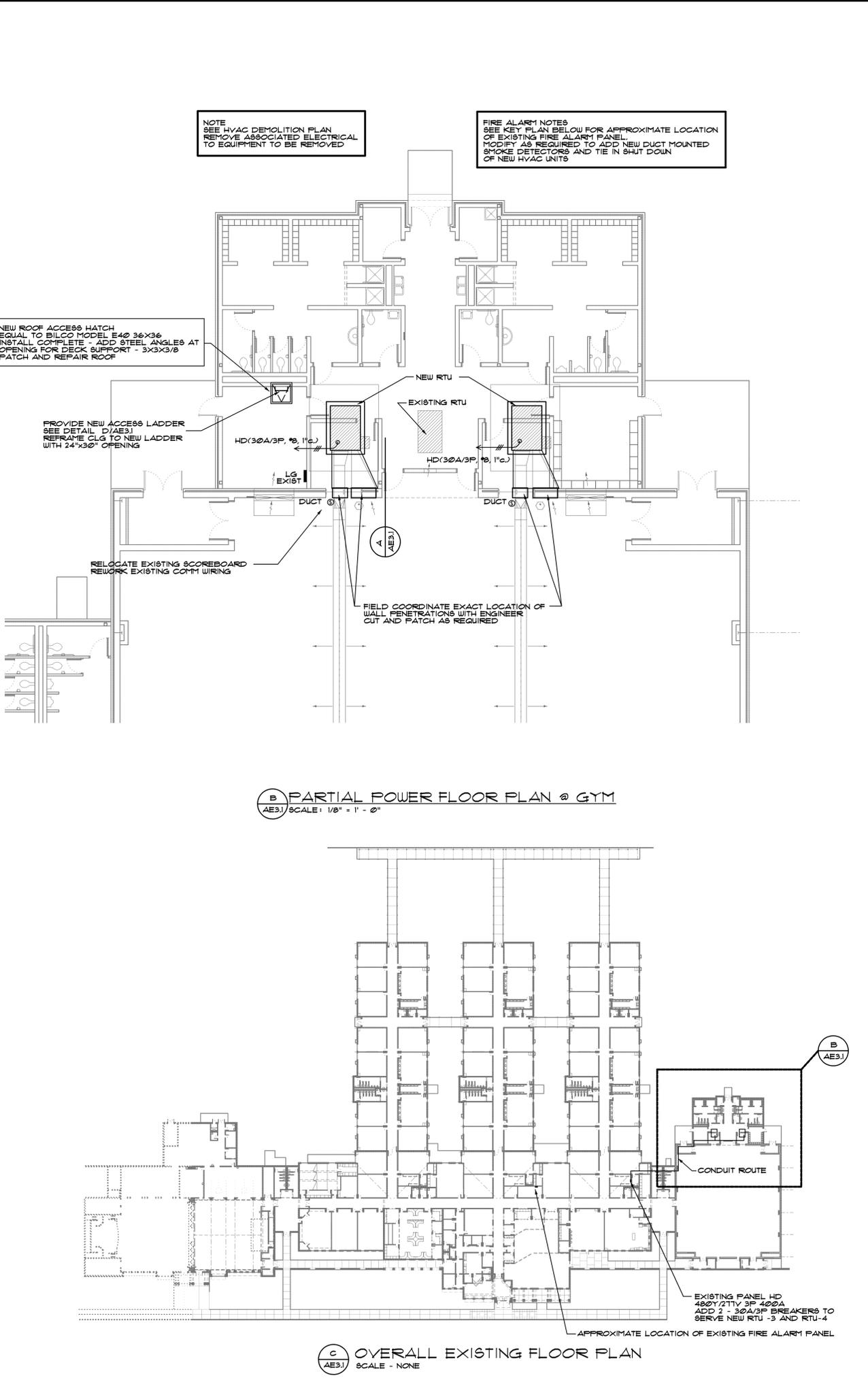
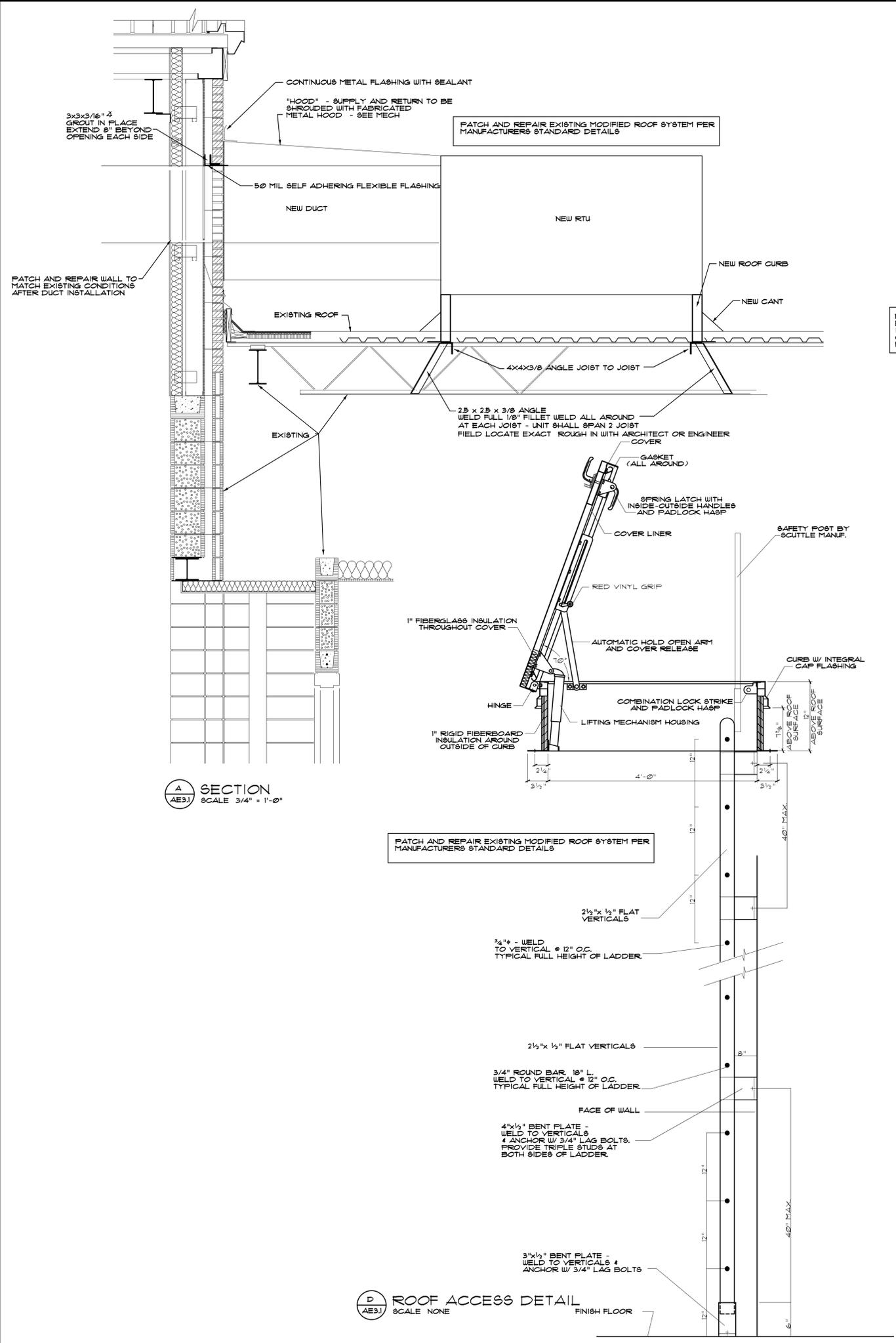
DATE
AUGUST 3, 2016

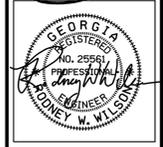
DRAWN BY

CHECKED BY

SHEET NUMBER

AE3.1





RUTLAND

REVISION

THIS DRAWING IS THE PROPERTY OF SPDG ARCHITECTS AND ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND PURPOSES SPECIFICALLY IDENTIFIED HEREIN AND 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 SPDG ARCHITECTS AND ENGINEERS, INC. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION IS PROHIBITED AND WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.

HVAC ADDITIONS
for the
BIBB COUNTY MIDDLE SCHOOLS
Bibb County School District
Macon, Georgia

PROJECT NO. 16-014
SHEET TITLE
DATE AUGUST 3, 2016
DRAWN BY
CHECKED BY
SHEET NUMBER

AE4.1

NOTE
SEE HVAC DEMOLITION PLAN
REMOVE ASSOCIATED ELECTRICAL
TO EQUIPMENT TO BE REMOVED

FIRE ALARM NOTES
SEE KEY PLAN BELOW FOR APPROXIMATE LOCATION
OF EXISTING FIRE ALARM PANEL
MODIFY AS REQUIRED TO ADD NEW DUCT MOUNTED
SMOKE DETECTORS AND TIE IN SHUT DOWN
OF NEW HVAC UNITS

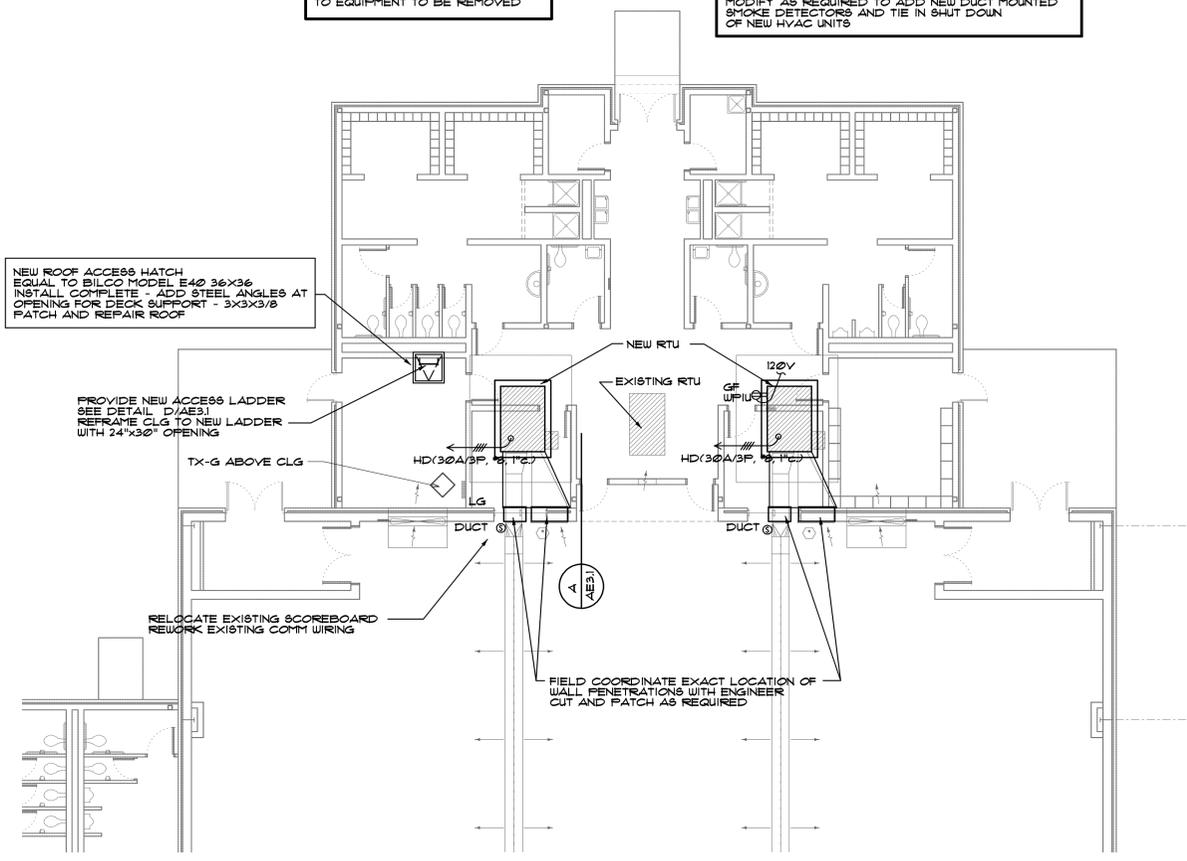
NEW ROOF ACCESS HATCH
EQUAL TO BILCO MODEL E40 36X36
INSTALL COMPLETE - ADD STEEL ANGLES AT
OPENING FOR DECK SUPPORT - 3X3X3/8
PATCH AND REPAIR ROOF

PROVIDE NEW ACCESS LADDER
SEE DETAIL D/AE31
REFRAME CLG TO NEW LADDER
WITH 24"x32" OPENING

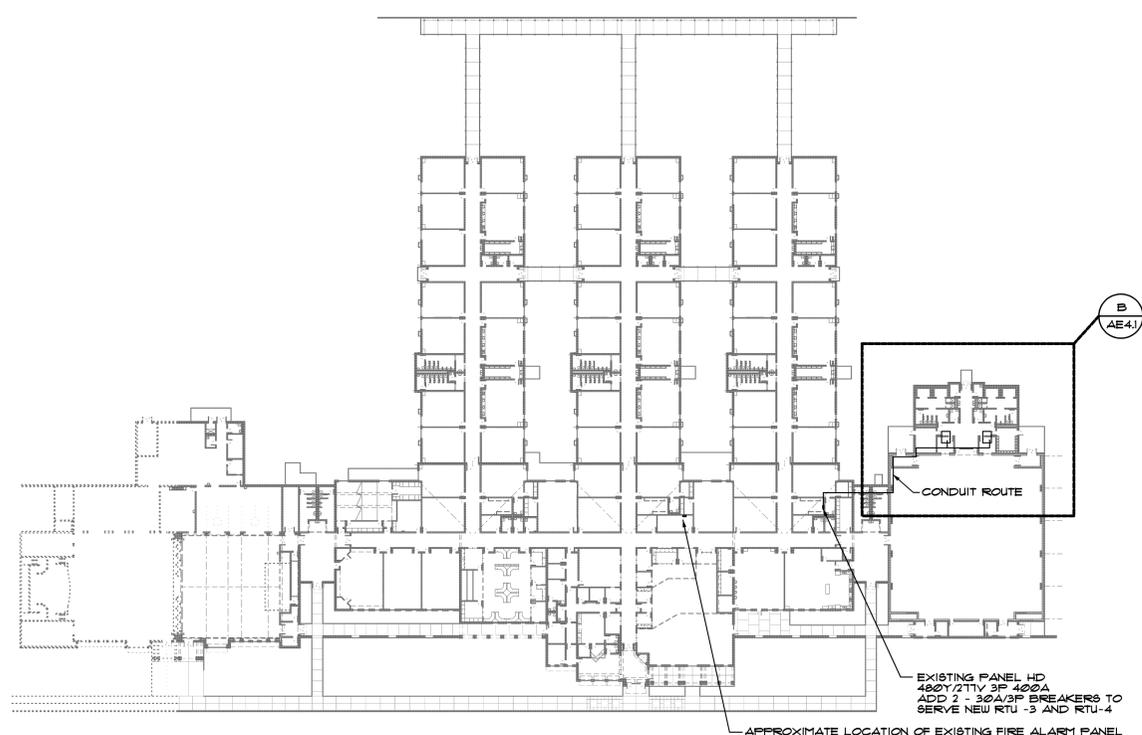
TX-G ABOVE CLG

RELOCATE EXISTING SCOREBOARD
REWORK EXISTING COMM WIRING

FIELD COORDINATE EXACT LOCATION OF
WALL PENETRATIONS WITH ENGINEER
CUT AND PATCH AS REQUIRED

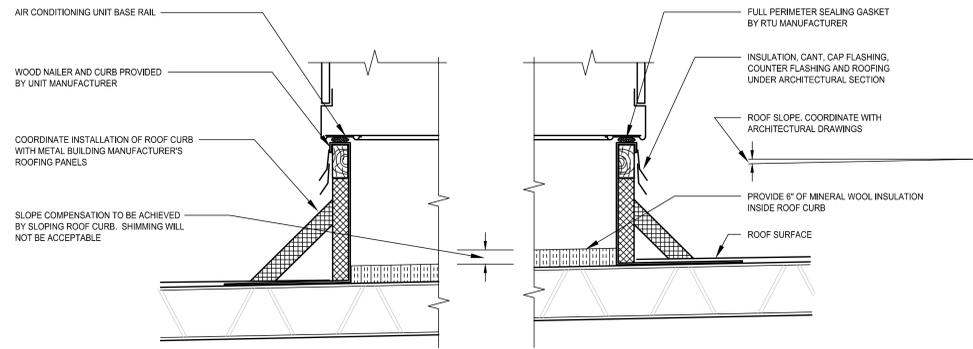


B PARTIAL POWER FLOOR PLAN @ GYM
AE4.1 SCALE: 1/8" = 1' - 0"

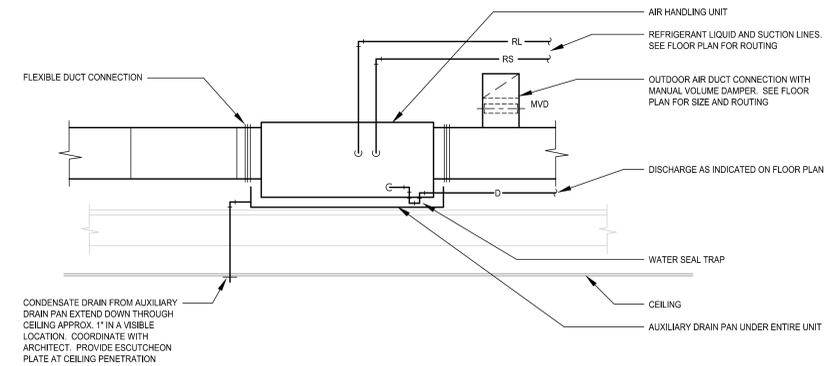


C OVERALL EXISTING FLOOR PLAN
AE4.1 SCALE - NONE

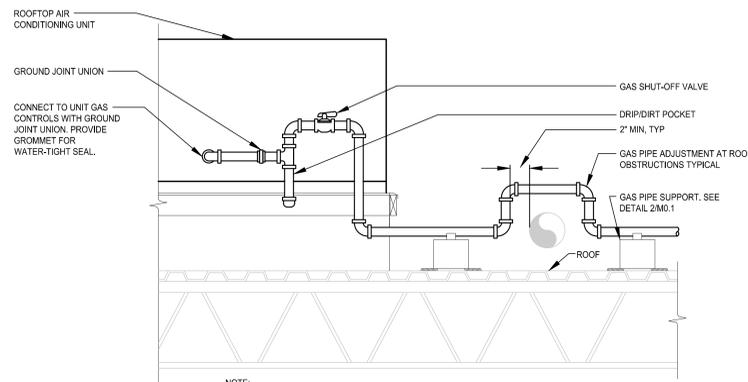
MECHANICAL LEGEND	
LINE WEIGHTS	
	EXISTING TO REMAIN
	TO BE DEMOLISHED OR NEW WORK
SYMBOLS	
	CONDENSATE DRAIN PIPING
	REFRIGERANT PIPING
	DROPPING OR RISING PIPE
	PIPE TO OR FROM ABOVE
	RECTANGULAR DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	ROUND DUCTWORK
	RECTANGULAR TO ROUND DUCT TRANSITION
	FLEXIBLE ROUND DUCT
	EXPOSED ROUND DUCTWORK
	FLEXIBLE DUCT CONNECTION
	ADJUSTABLE DEFLECTOR VANES AT BRANCH DUCT
	SQUARE DUCT ELBOW WITH TURNING VANES
	MANUAL VOLUME DAMPER
	AUTOMATIC (MOTORIZED) CONTROL DAMPER
	ONE INCH THICK DUCT LINER
	SPLITTER DAMPER WITH SPLIT DIMENSIONS SHOWN
	VERTICAL OFFSET: ARROW INDICATES RISE
	EQUIPMENT ON ROOF ABOVE
	WALL MOUNTED THERMOSTAT OR TEMPERATURE SENSOR
	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
DIA	DIAMETER
dB	DRY BULB
DX	DIRECT EXPANSION
EER	ENERGY EFFICIENCY RATING
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATOR
FPM	FEET PER MINUTE
FT	FEET
H	HEIGHT
HP	HORSE POWER
HW	HOT WATER
IN	INCHES
IN. WG	INCHES WATER GAUGE
KW	KILOWATTS
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
OA	OUTDOOR AIR
RPM	REVOLUTIONS PER MINUTE
TYP	TYPICAL
°F	DEGREES FAHRENHEIT
ΔT	TEMPERATURE DIFFERENCE



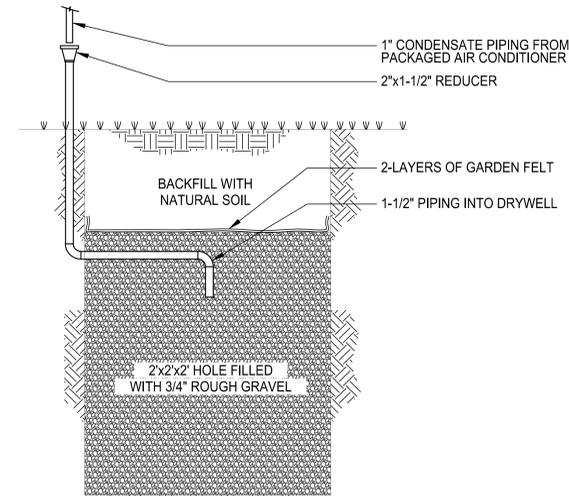
3 RTU ROOF MOUNTING CURB DETAIL
SCALE: NONE



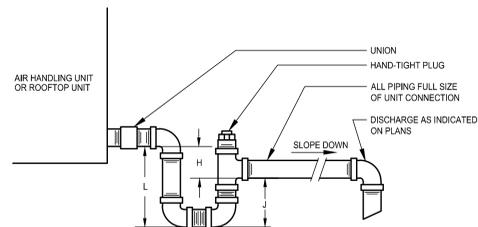
7 HORIZONTAL AHU WITH AUXILIARY DRAIN PAN
SCALE: NONE



4 TYPICAL RTU GAS CONNECTION DETAIL
SCALE: NONE

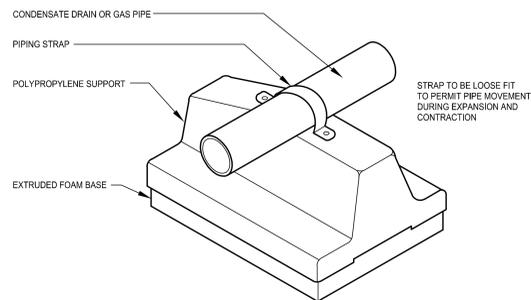


8 DRY WELL DETAIL
SCALE: NONE



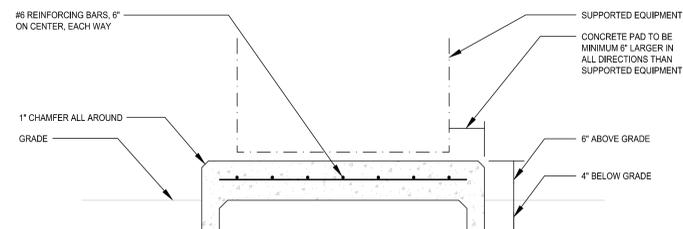
DRAW THRU UNIT: L = H + J
H = 1 INCH FOR EACH INCH OF NEGATIVE PRESSURE PLUS 1 INCH
J = 1/2 OF H

1 CONDENSATE DRAIN CONNECTION
SCALE: NONE

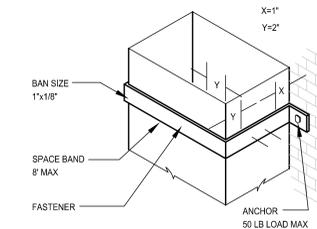


REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPACING REQUIREMENTS AND STRAPPING FOR ELEVATION CHANGES. MANUFACTURED BY A BETTER IDEA INC. OR APPROVED EQUAL.

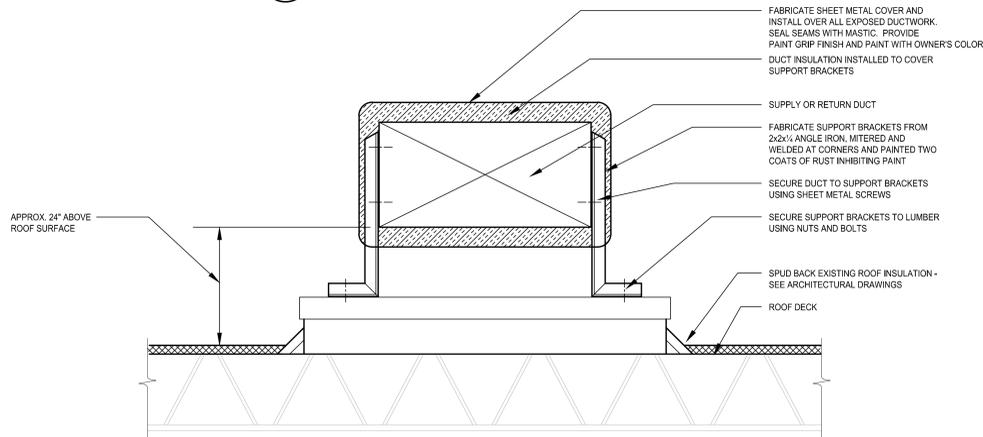
2 ABOVE ROOF PIPE SUPPORT DETAIL
SCALE: NONE



5 CONCRETE PAD DETAIL - OUTDOORS
SCALE: NONE



9 DUCT SUPPORT AT OUTSIDE WALL
SCALE: NONE



6 DUCT SUPPORTS ABOVE ROOF
SCALE: NONE

REVISION

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. IT IS NOT TO BE REPRODUCED, COPIED, OR USED IN ANY MANNER FOR ANY OTHER PROJECTS OR EXTENDING TO ANY OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. ANY VIOLATION OF THESE TERMS SHALL BE SUBJECT TO LEGAL ACTION.

PROJECT NO. 16-014
SHEET TITLE MECHANICAL LEGEND AND DETAILS
DATE AUGUST 3, 2016
DRAWN BY TDH
CHECKED BY MVS
SHEET NUMBER M0.1



BALLARD HUDSON

REVISION

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP AND SHALL REMAIN THE PROPERTY OF SP DESIGN GROUP. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND IS NOT TO BE USED FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF SP DESIGN GROUP. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN AND APPROPRIATE CONSENT IS PROHIBITED.

**HVAC ADDITIONS
BIBB COUNTY MIDDLE SCHOOLS**

BIBB COUNTY SCHOOL DISTRICT
MACON, GEORGIA

PROJECT NO.
16-014

SHEET TITLE

MECHANICAL
DEMOLITION PLAN -
BALLARD HUDSON
MIDDLE SCHOOL

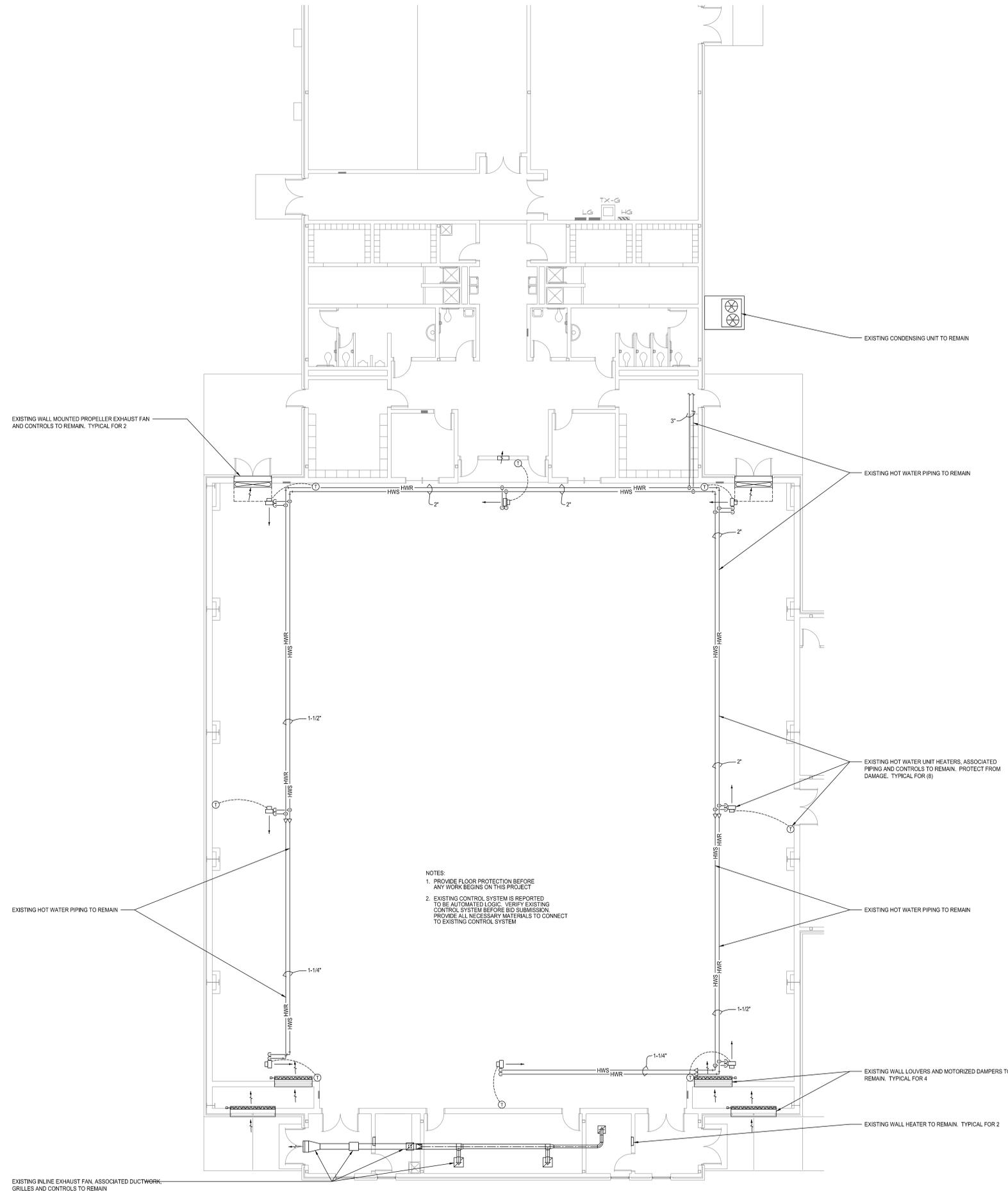
DATE
AUGUST 3, 2016

DRAWN BY
TDH

CHECKED BY
MVS

SHEET NUMBER

M1.1



- NOTES:
1. PROVIDE FLOOR PROTECTION BEFORE ANY WORK BEGINS ON THIS PROJECT
 2. EXISTING CONTROL SYSTEM IS REPORTED TO BE AUTOMATED LOGIC. VERIFY EXISTING CONTROL SYSTEM BEFORE BID SUBMISSION. PROVIDE ALL NECESSARY MATERIALS TO CONNECT TO EXISTING CONTROL SYSTEM

1 MECHANICAL DEMOLITION PLAN - BALLARD HUDSON MIDDLE SCHOOL
SCALE: 1/8" = 1'-0"



HOWARD

REVISION

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 AND IS NOT TO BE USED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE WRITTEN CONSENT OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IN PART, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION.

**HVAC ADDITIONS
BIBB COUNTY MIDDLE SCHOOLS**
BIBB COUNTY SCHOOL DISTRICT
MACON, GEORGIA

PROJECT NO.
16-014

SHEET TITLE

MECHANICAL
DEMOLITION PLAN -
HOWARD MIDDLE
SCHOOL

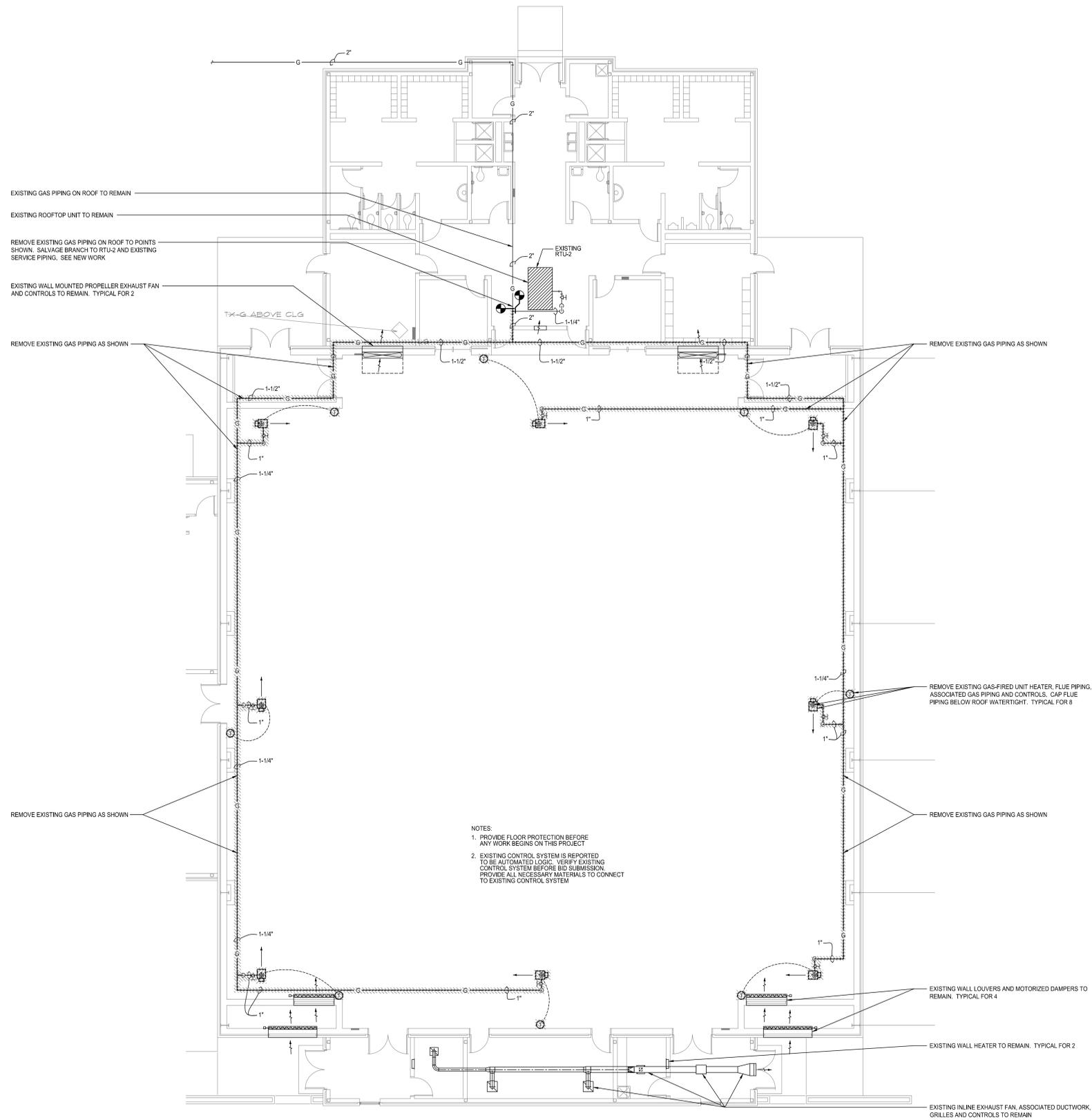
DATE
AUGUST 3, 2016

DRAWN BY
TDH

CHECKED BY
MVS

SHEET NUMBER

M1.2



1 MECHANICAL DEMOLITION PLAN - HOWARD MIDDLE SCHOOL
SCALE: 1/8" = 1'-0"



RUTLAND

REVISION

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE IDENTIFIED HEREIN. IT IS NOT TO BE USED FOR ANY OTHER PROJECT, IN WHOLE OR IN PART, WITHOUT THE WRITTEN AND WITH APPROPRIATE COMPENSATION.

**HVAC ADDITIONS
BIBB COUNTY MIDDLE SCHOOLS
BIBB COUNTY SCHOOL DISTRICT
MACON, GEORGIA**

PROJECT NO.
16-014

SHEET TITLE

MECHANICAL DEMOLITION PLAN -
RUTLAND
MIDDLE SCHOOL

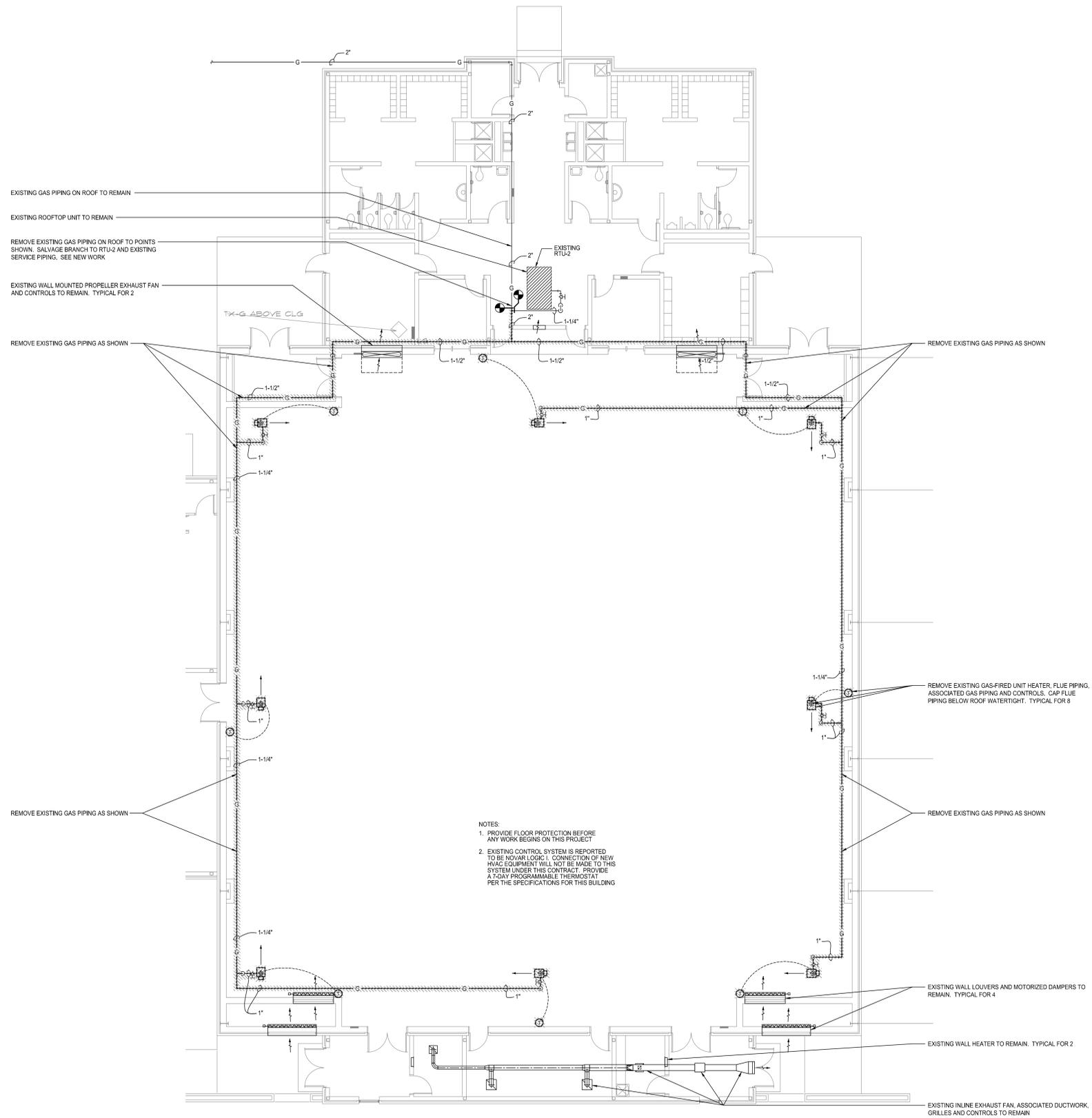
DATE
AUGUST 3, 2016

DRAWN BY
TDH

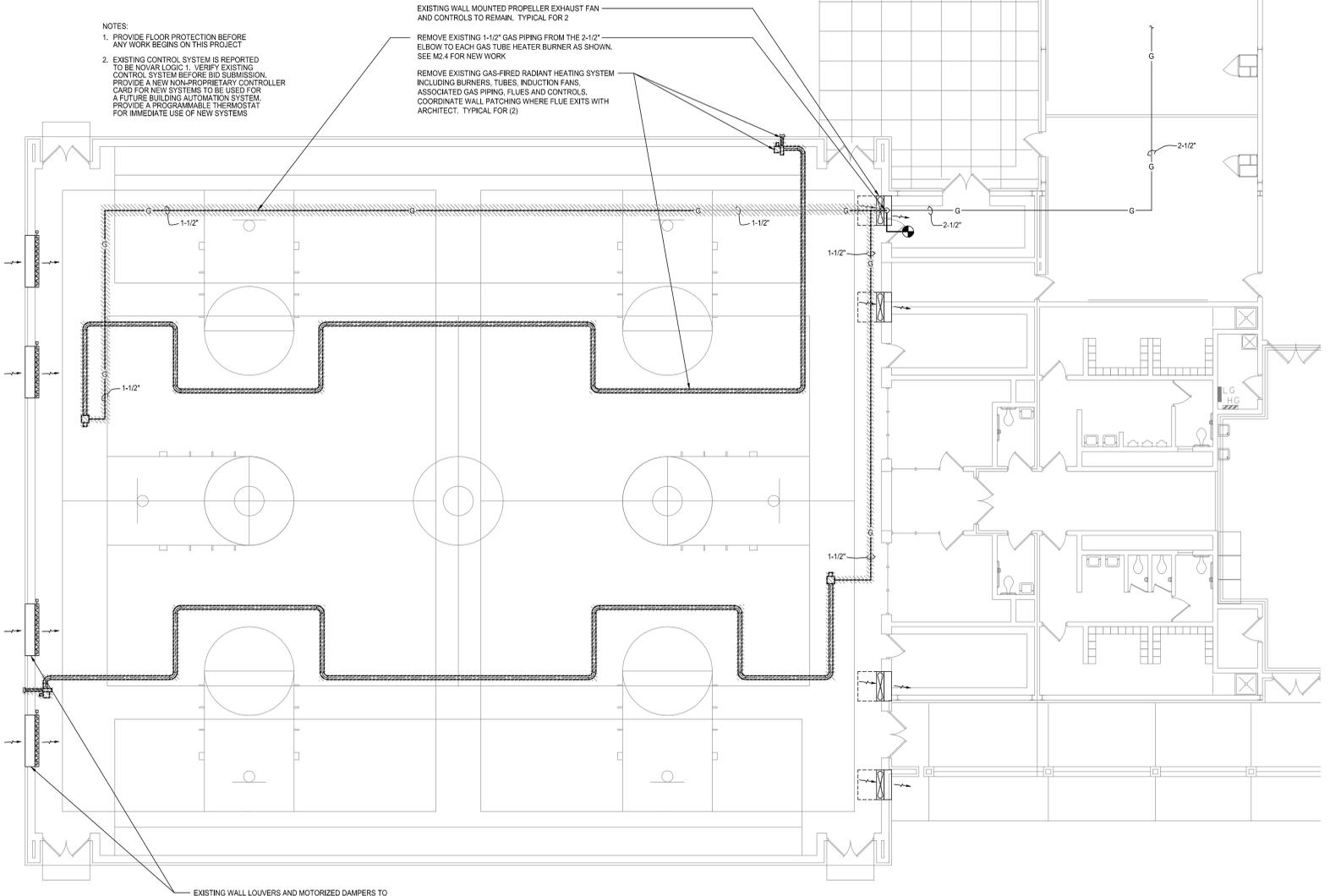
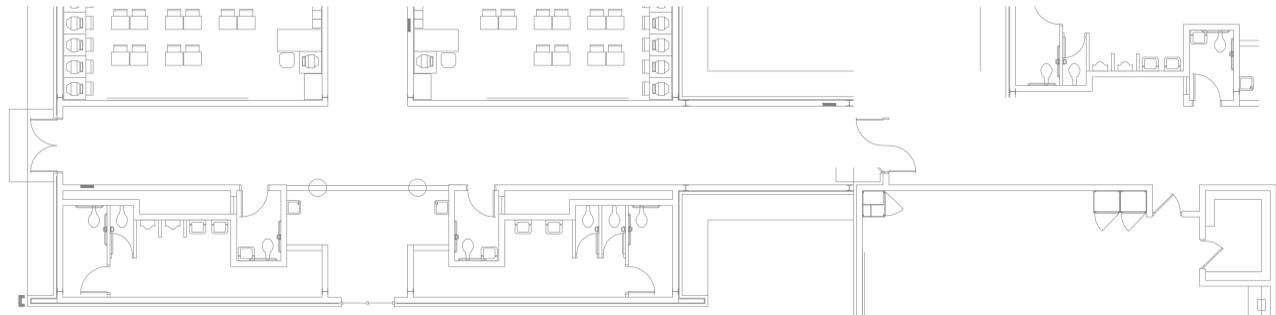
CHECKED BY
MVS

SHEET NUMBER

M1.3



1 MECHANICAL DEMOLITION PLAN - RUTLAND MIDDLE SCHOOL
SCALE: 1/8" = 1'-0"



NOTES:
 1. PROVIDE FLOOR PROTECTION BEFORE ANY WORK BEGINS ON THIS PROJECT
 2. EXISTING CONTROL SYSTEM IS REPORTED TO BE NON-LOGIC. VERIFY EXISTING CONTROL SYSTEM BEFORE BID SUBMISSION. PROVIDE A NEW NON-PROPRIETARY CONTROLLER CARD FOR NEW SYSTEMS TO BE USED FOR A FUTURE BUILDING AUTOMATION SYSTEM. PROVIDE A PROGRAMMABLE THERMOSTAT FOR IMMEDIATE USE OF NEW SYSTEMS

EXISTING WALL MOUNTED PROPELLER EXHAUST FAN AND CONTROLS TO REMAIN. TYPICAL FOR 2
 REMOVE EXISTING 1-1/2" GAS PIPING FROM THE 2-1/2" ELBOW TO EACH GAS TUBE HEATER BURNER AS SHOWN. SEE M2.4 FOR NEW WORK
 REMOVE EXISTING GAS-FIRED RADIANT HEATING SYSTEM INCLUDING BURNERS, TUBES, INDUCTION FANS, ASSOCIATED GAS PIPING, FLUES AND CONTROLS. COORDINATE WALL PATCHING WHERE FLUE EXITS WITH ARCHITECT. TYPICAL FOR (2)

EXISTING WALL LOUVERS AND MOTORIZED DAMPERS TO REMAIN. TYPICAL FOR (4)

1 MECHANICAL DEMOLITION PLAN - WEAVER MIDDLE SCHOOL
 SCALE: 1/8" = 1'-0"



WEAVER

REVISION

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. IT IS NOT TO BE USED ON OTHER PROJECTS OR EXTENDING TO OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC. ANY REPRODUCTION OR TRANSMISSION 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, INC. IS PROHIBITED.

**HVAC ADDITIONS
 BIBB COUNTY MIDDLE SCHOOLS
 BIBB COUNTY SCHOOL DISTRICT
 MACON, GEORGIA**

PROJECT NO.
 16-014

SHEET TITLE
 MECHANICAL DEMOLITION PLAN - WEAVER MIDDLE SCHOOL

DATE
 AUGUST 3, 2016

DRAWN BY
 TDH

CHECKED BY
 MVS

SHEET NUMBER

M1.4



THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP, INC. AND IS NOT TO BE REPRODUCED, COPIED, 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 AND APPROPRIATE COMPOSITIONAL AGREEMENT.

AIR HANDLING UNIT SCHEDULE								
MARK	CARRIER MODEL No.	TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL SUPPLY CFM	OA CFM	APPROX ESP IN. WG	MOTOR HP	NOTES
MAHU-2	4QRUAA12T	118.7	89.3	4000	500	0.75"	3.7	1:2:3:4:5
MAHU-3	4QRUAA12T	118.7	89.3	4000	500	0.75"	3.7	1:2:3:4:5

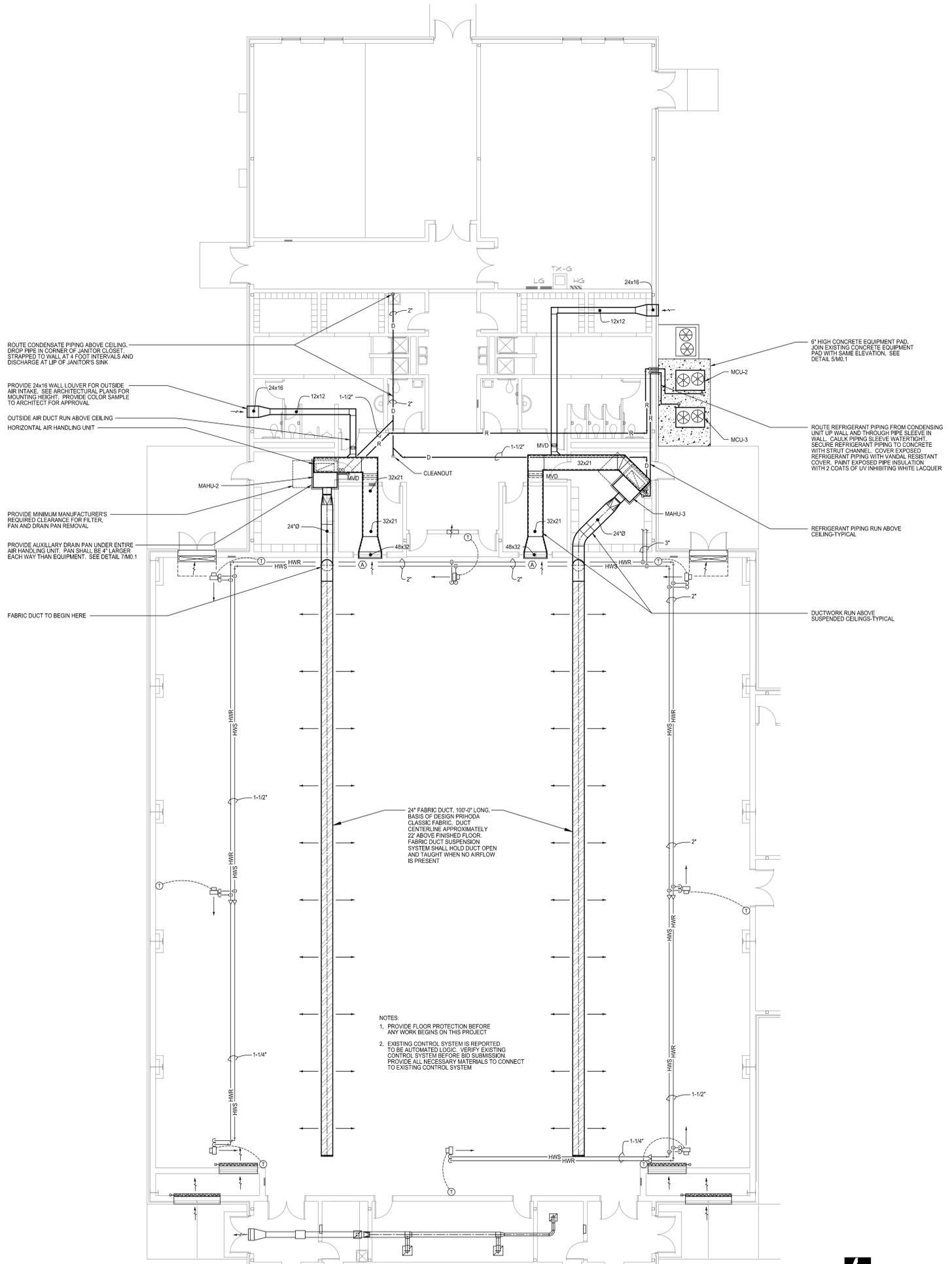
- HORIZONTAL AIR HANDLING UNIT WITH FRONT DISCHARGE AND BACK INLET
- PROVIDE AUXILIARY DRAIN PAN UNDER ENTIRE AIR HANDLING UNIT. SEE DETAIL 7/M0.1
- COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT 80°Fdb, 67°Fwb
- PROVIDE DUAL-CIRCUITED EVAPORATOR COIL
- COOLING-ONLY UNIT

CONDENSING UNIT SCHEDULE				
MARK	CARRIER MODEL No.	TOTAL COOLING MBH	MIN EER	NOTES
MCU-2	38AUDA12A	118.7	11.0	1:2:3:4
MCU-3	38AUDA12A	118.7	11.0	1:2:3:4

- COOLING CAPACITY BASED ON 95°F AMBIENT AIR TEMPERATURE
- PROVIDE 1/4" THICK NEOPRENE WAFFLE-PAD UNDER ALL SUPPORT POINTS
- PROVIDE CONDENSER HAIL GUARDS
- PROVIDE TWO REFRIGERATION CIRCUITS

GRILLE SCHEDULE				
MARK	CARNES MODEL No.	SIZE	FINISH	NOTES
(A)	RAAMH	48x32	WHITE	2:9:10

- ALUMINUM SIDEWALL RETURN GRILLE
- 3/4" BLADE SPACING, FRONT BLADES HORIZONTAL
- HORIZONTAL BLADES SET AT 45° ANGLE



1 MECHANICAL NEW WORK PLAN - BALLARD HUDSON MIDDLE SCHOOL
SCALE: 1/8" = 1'-0"



HOWARD

REVISION

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP, INC. AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF SP DESIGN GROUP, INC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF SP DESIGN GROUP, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF SP DESIGN GROUP, INC.

HVAC ADDITIONS
BIBB COUNTY MIDDLE SCHOOLS
BIBB COUNTY SCHOOL DISTRICT
MACON, GEORGIA

PROJECT NO.
16-014

SHEET TITLE

MECHANICAL NEW WORK PLAN - HOWARD MIDDLE SCHOOL

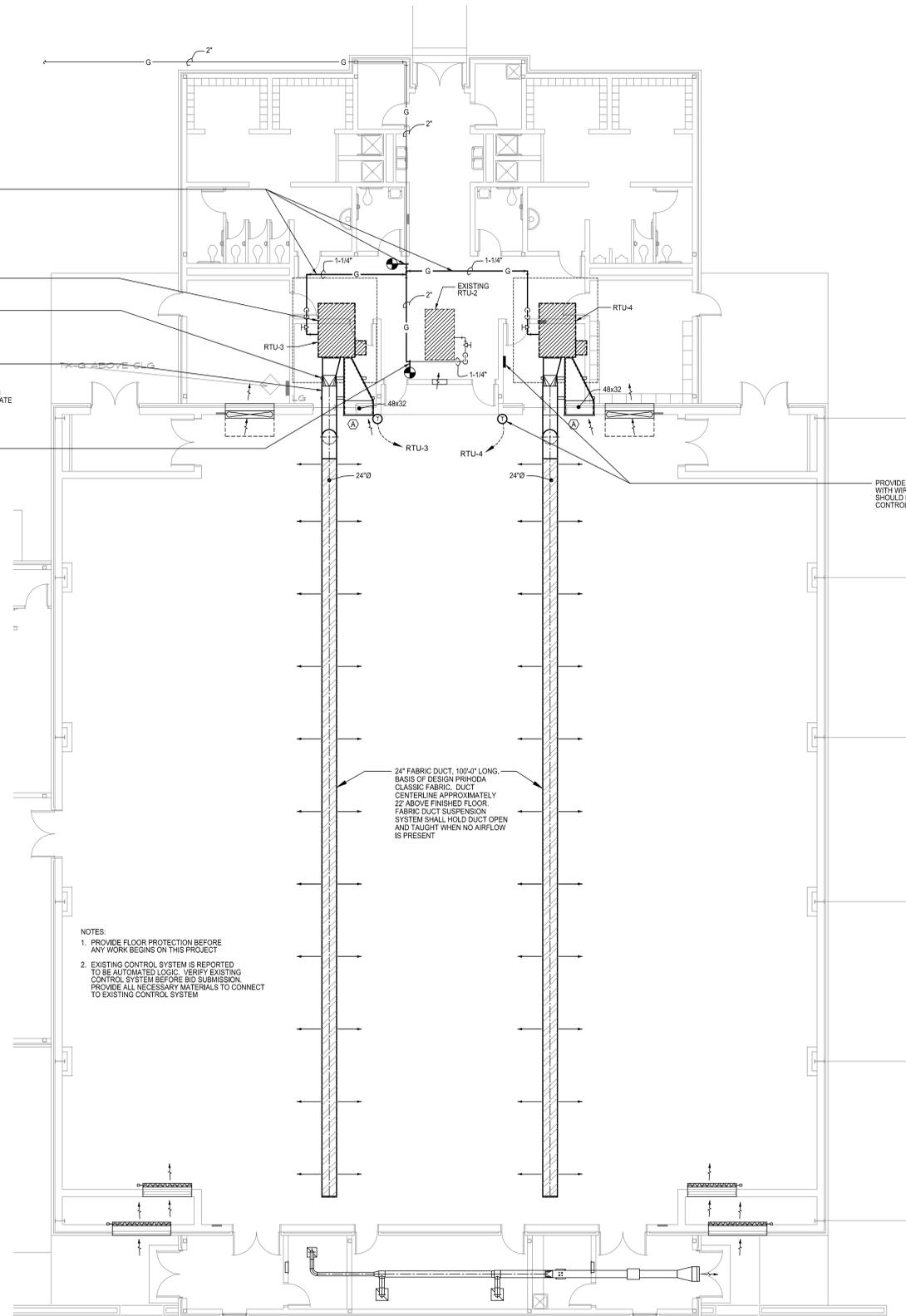
DATE
AUGUST 3, 2016

DRAWN BY
TDH

CHECKED BY
MVS

SHEET NUMBER

M2.2



- NOTES:
1. PROVIDE FLOOR PROTECTION BEFORE ANY WORK BEGINS ON THIS PROJECT
 2. EXISTING CONTROL SYSTEM IS REPORTED TO BE AUTOMATED LOGIC. VERIFY EXISTING CONTROL SYSTEM BEFORE BID SUBMISSION. PROVIDE ALL NECESSARY MATERIALS TO CONNECT TO EXISTING CONTROL SYSTEM

ROOFTOP AIR CONDITIONING UNIT SCHEDULE										
MARK	CARRIER MODEL No.	TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL SUPPLY CFM	MIN OA CFM	APPROX. ESP IN WG	SUPPLY FAN HP	GAS INPUT MBH	MIN. EER	NOTES
RTU-3	4BHCSE11B3	109.7	92.4	4000	500	0.8"	5.0	180	12.0	1,2,3,4,5,6,7,8,9,10,11,12
RTU-4	4BHCSE11B3	109.7	92.4	4000	500	0.8"	5.0	180	12.0	1,2,3,4,5,6,7,8,9,10,11,12

1. COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT 80°F db, 67°F wb AND 95°F AMBIENT AIR TEMPERATURE
2. HEATING CAPACITY BASED ON FIRING NATURAL GAS
3. DOWN FLOW UNIT. PROVIDE FULL PERIMETER ROOF CURB. SEE DETAIL 3M0.1
4. SIDE HORIZONTAL SUPPLY AND RETURN DUCT CONNECTIONS
5. PROVIDE AIR-SIDE ECONOMIZER WITH POWERED EXHAUST
6. PROVIDE WITH HINGED ACCESS PANELS
7. PROVIDE WITH HOT GAS REPEAT DEHUMIDIFICATION CYCLE
8. PROVIDE WITH CONDENSER HAIL GUARDS
9. ROUTE CONDENSATE DRAIN TO NEAREST ROOF DRAIN. SEE DETAIL 2M0.1
10. PROVIDE FACTORY INSTALLED DISCONNECT
11. ROOF SLOPE COMPENSATION TO BE ACHIEVED THROUGH ROOF CURB SLOPE. DO NOT SHIM ROOF CURB
12. PROVIDE VARIABLE FREQUENCY DRIVE AND SOFT START FOR EVAPORATOR FAN MOTOR

GRILLE SCHEDULE					
MARK	CARNES MODEL No.	SIZE	THROW	FINISH	NOTES
(A)	RAAMH	48x32	-	WHITE	2,9,10

1. ALUMINUM SIDEWALL RETURN GRILLE
2. 3/4" BLADE SPACING. FRONT BLADES HORIZONTAL
3. HORIZONTAL BLADES SET AT 45° ANGLE

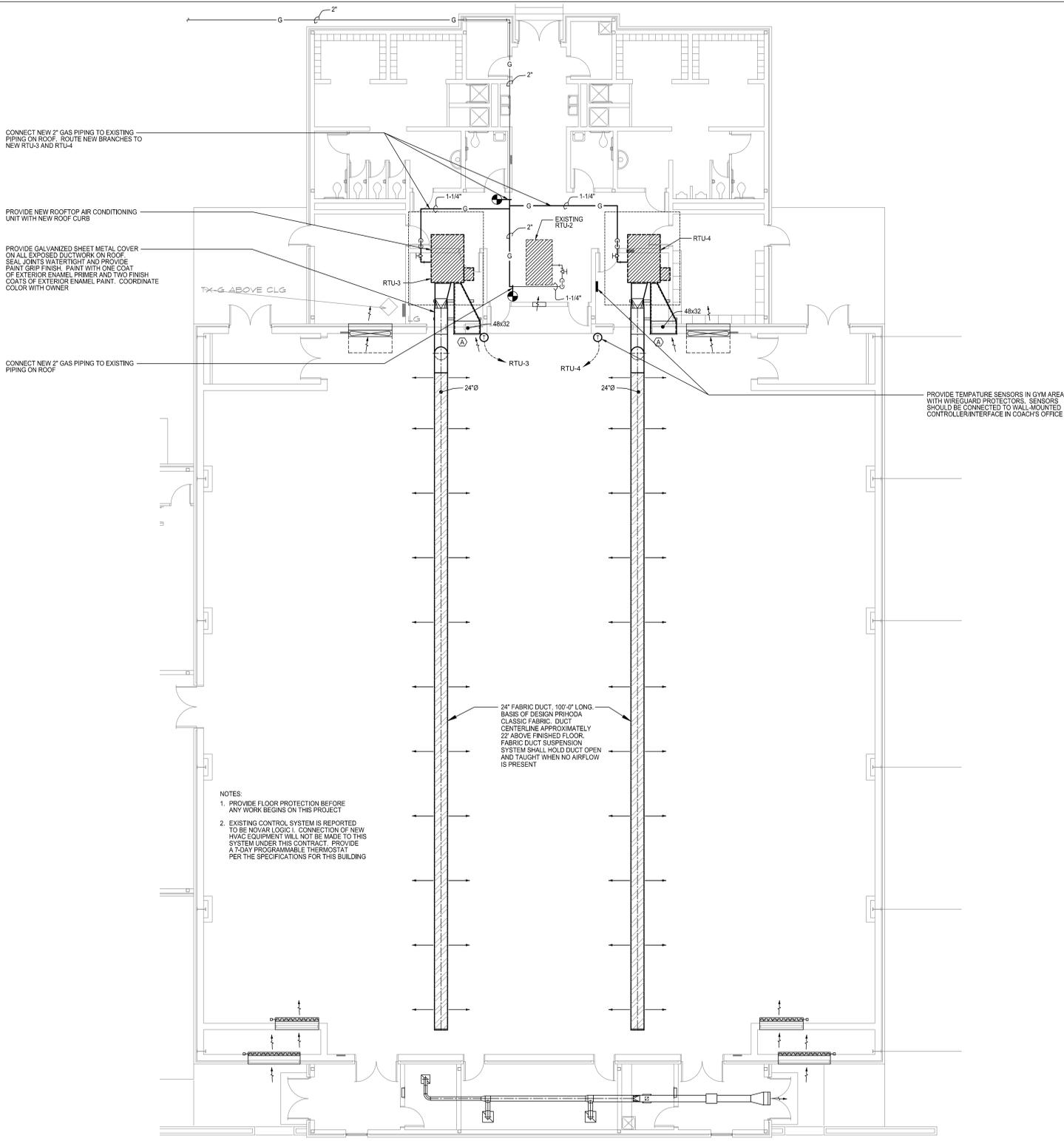
1 MECHANICAL NEW WORK PLAN - HOWARD MIDDLE SCHOOL
SCALE: 1/8" = 1'-0"

ROOFTOP AIR CONDITIONING UNIT SCHEDULE											
MARK	CARRIER MODEL No.	TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL SUPPLY CFM	MIN OA CFM	APPROX. ESP IN WG	SUPPLY FAN HP	GAS INPUT MBH	MIN. EER	NOTES	
RTU-3	48HCSE11B3	109.7	92.4	4000	500	0.8"	5.0	180	12.0	1,2,3,4,5,6,7,8,9,10,11,12	
RTU-4	48HCSE11B3	109.7	92.4	4000	500	0.8"	5.0	180	12.0	1,2,3,4,5,6,7,8,9,10,11,12	

1. COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT 80°Fdb, 67°Fwb AND 95°F AMBIENT AIR TEMPERATURE
2. HEATING CAPACITY BASED ON FIRING NATURAL GAS
3. DOWN FLOW UNIT. PROVIDE FULL PERIMETER ROOF CURB. SEE DETAIL 3/MO.1
4. SIDE HORIZONTAL SUPPLY AND RETURN DUCT CONNECTIONS
5. PROVIDE AIR-SIDE ECONOMIZER WITH POWERED EXHAUST
6. PROVIDE WITH HINGED ACCESS PANELS
7. PROVIDE WITH HOT GAS REHEAT DEHUMIDIFICATION CYCLE
8. PROVIDE WITH CONDENSER HAIL GUARDS
9. ROUTE CONDENSATE DRAIN TO NEAREST ROOF DRAIN. SEE DETAIL 2/MO.1
10. PROVIDE FACTORY INSTALLED DISCONNECT
11. ROOF SLOPE COMPENSATION TO BE ACHIEVED THROUGH ROOF CURB SLOPE. DO NOT SHIM ROOF CURB
12. PROVIDE VARIABLE FREQUENCY DRIVE AND SOFT START FOR EVAPORATOR FAN MOTOR

GRILLE SCHEDULE					
MARK	CARNES MODEL No.	SIZE	THROW	FINISH	NOTES
(A)	RAAMH	48x32	-	WHITE	1,2,3

1. ALUMINUM SIDEWALL RETURN GRILLE
2. 3/4" BLADE SPACING. FRONT BLADES HORIZONTAL
3. HORIZONTAL BLADES SET AT 45° ANGLE



1 MECHANICAL NEW WORK PLAN - RUTLAND MIDDLE SCHOOL
SCALE: 1/8" = 1'-0"



SPDG
Architects and Engineers Inc.

5191 Columbus Rd.
Macon, GA 31206
(770) 477-7465
(770) 477-9511
frontdesk@spdesigngrp.com



15640

RUTLAND

REVISION

THIS DRAWING IS THE PROPERTY OF SP DESIGN GROUP, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF SP DESIGN GROUP, INC. ANY UNAUTHORIZED USE OF THIS DRAWING IS PROHIBITED. THE USER ASSUMES ALL LIABILITY FOR ANY DAMAGE, LOSS, OR INJURY RESULTING FROM THE USE OF THIS DRAWING, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION.

**HVAC ADDITIONS
BIBB COUNTY MIDDLE SCHOOLS
BIBB COUNTY SCHOOL DISTRICT
MACON, GEORGIA**

PROJECT NO.
16-014

SHEET TITLE
MECHANICAL NEW WORK PLAN - RUTLAND MIDDLE SCHOOL

DATE
AUGUST 3, 2016

DRAWN BY
TDH

CHECKED BY
MVS

SHEET NUMBER
M2.3



H.G. WEAVER

NO.	REVISION

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. IT IS NOT TO BE USED ON OTHER PROJECTS OR EXTENDING BEYOND THE PROJECT OR SITE IDENTIFIED HEREIN WITHOUT THE WRITTEN PERMISSION OF SP DESIGN GROUP ARCHITECTS AND ENGINEERS, INC.

**HVAC ADDITIONS
BIBB COUNTY MIDDLE SCHOOLS
BIBB COUNTY SCHOOL DISTRICT
MACON, GEORGIA**

PROJECT NO.
16-014

SHEET TITLE
MECHANICAL NEW WORK PLAN -
WEAVER MIDDLE SCHOOL

DATE
AUGUST 3, 2016

DRAWN BY
TDH

CHECKED BY
MVS

SHEET NUMBER

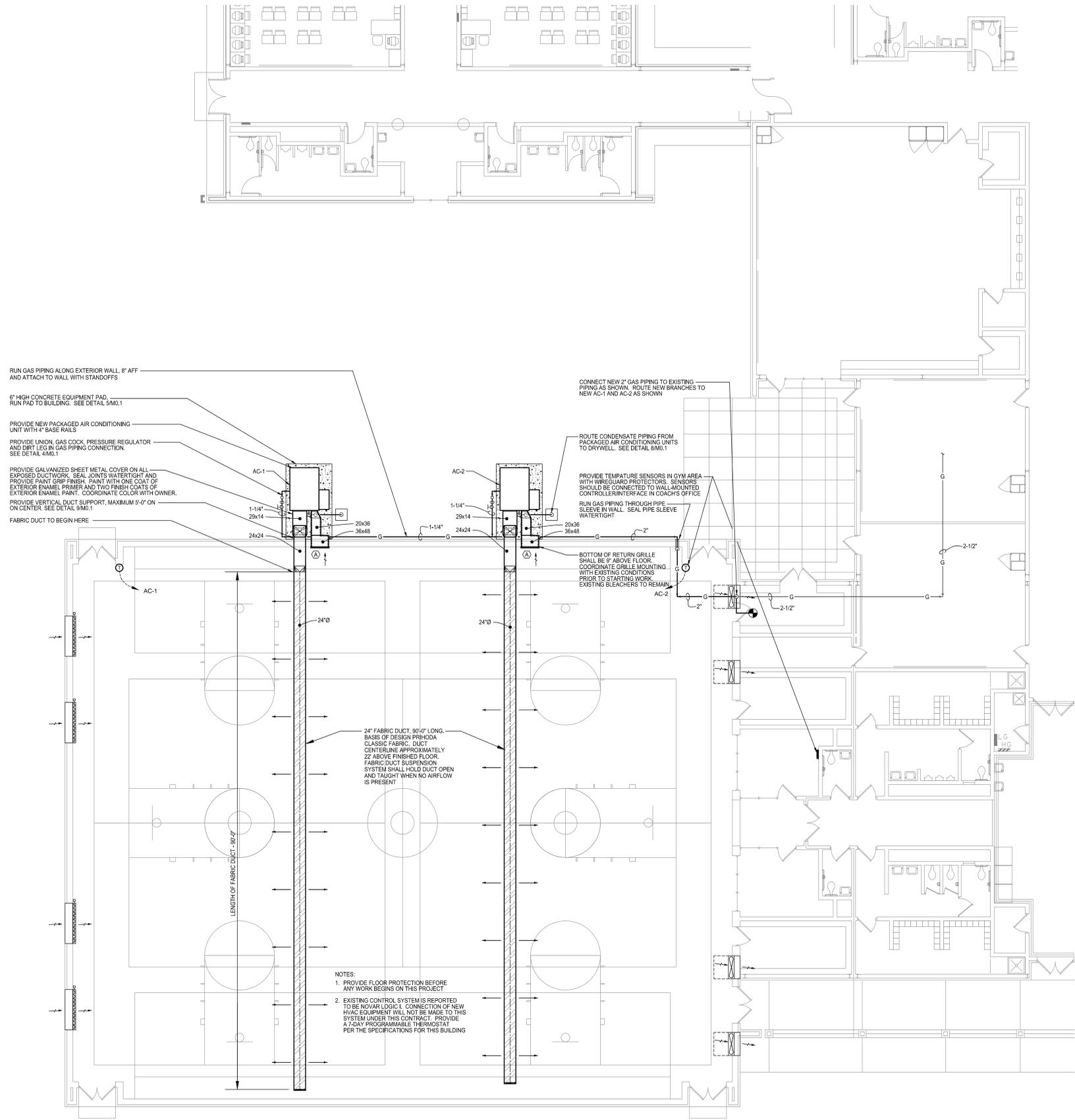
M2.4

PACKAGED AIR CONDITIONING UNIT SCHEDULE										
MARK	CARRIER MODEL No.	TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL SUPPLY CFM	MIN OA CFM	APPROX. ESP IN WG	SUPPLY FAN HP	GAS INPUT MBH	MIN. EER	NOTES
AC-1	48HCSE11B3	109.7	92.4	4000	500	0.8"	5.0	180	12.0	1.2:3.4:5:6:7:8:9
AC-2	48HCSE11B3	109.7	92.4	4000	500	0.8"	5.0	180	12.0	1.2:3.4:5:6:7:8:9

- COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT 80°Fdb, 67°Fwb AND 95°F AMBIENT AIR TEMPERATURE
- HEATING CAPACITY BASED ON FIRING NATURAL GAS
- SIDE HORIZONTAL SUPPLY AND RETURN DUCT CONNECTIONS
- PROVIDE WITH HINGED ACCESS PANELS
- PROVIDE WITH HOT GAS REHEAT DEHUMIDIFICATION CYCLE
- PROVIDE WITH CONDENSER HAIL GUARDS
- ROUTE CONDENSATE DRAIN TO DRYWELL. SEE DETAIL 8M0.1
- PROVIDE FACTORY INSTALLED DISCONNECT
- PROVIDE VARIABLE FREQUENCY DRIVE AND SOFT START FOR EVAPORATOR FAN MOTOR

GRILLE SCHEDULE					
MARK	CARNES MODEL No.	SIZE	THROW	FINISH	NOTES
(A)	RSHAH	36x48	-	WHITE	1.2:3

- WELDED STEEL "STURDICORE" RETURN GRILLE
- 3/4" BLADE SPACING. FRONT BLADES HORIZONTAL
- HORIZONTAL BLADES SET AT 40° ANGLE



1 MECHANICAL NEW WORK PLAN - WEAVER MIDDLE SCHOOL
SCALE: 1/8" = 1'-0"