BUCHANAN ELEMENTARY SCHOOL
GYMNASIUM MODIFICATION

FACILITY CODE: 671-0178

215 COLLEGE CIRCLE, BUCHANAN, GA 30113

HARALSON COUNTY SCHOOLS

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BXA
Breaux & Associates
ARCHITECTS
5955 Shiloh Road East, Suite 200
Alpharetta, Georgia 30005 | (678) 585-4508

NO	DESCRIPTION	DATE

BUCHANAN ELEMENTARY SCHOOL
GYMNASIUM MODIFICATION
215 COLLEGE CIRCLE, BUCHANAN, GA 30113
(FACILITY CODE: 671-0178)

HARALSON COUNTY SCHOOLS

COVER

DATE 01/04/2023
PROJECT NO. 22131

G0.0

SHEET/SUITE/ROOM/DOOR REFERENCE

SHEET NUMBERING

DISCIPLINE REFERENCE

BUILDING NUMBER (1,2 OR 3) - AS NEEDED, IF NO NUMBER PRESENT SHEET APPLIES TO CAMPUS, OR ALL BUILDINGS

GENERAL SHEET ORGANIZATION

3A1.20

SUITE - ROOM NUMBERING

AREA REFERENCE AS NEEDED, IF NO LETTER PRESENT SHEET APPLIES TO WHOLE BUILDING LEVEL, OTHERWISE AREAS AS NOTED IN KEY PLAN.

BUILDING NUMBER (IF NEEDED, SEE ABOVE)

LEVEL REFERENCE

SUITE NUMBER

ROOM NUMBER

3A100A

DOOR NUMBERING

DOOR LOCATION REFERENCE (BASED ON SUITE-ROOM NUMBERING - SEE ABOVE)

DOOR NUMBER

3A100A1

PROJECT PARTNERS

OWNER

HARALSON COUNTY SCHOOLS
299 ROBERTSON AVENUE
TALLAPOOSA, GA 30176
(770) 574-2500
CONTACT: DR. JERRY BELL

ARCHITECT

BREAUX & ASSOCIATES ARCHITECTS
5955 SHILOH ROAD EAST,
SUITE 200
ALPHARETTA, GEORGIA 30005
(678) 585-4508
ConstructionAdmin@BXArch.com

ENGINEERS

ELECTRICAL

MATHIS CONSULTING ENGINEERS
244 O'DELL RD., SUITE 6
GRIFFIN, GEORGIA 30224
(404) 237-8632

MECHANICAL

BAA MECHANICAL ENGINEERS, INC.
500 BISHOP ST., SUITE E-2
ATLANTA, GEORGIA 30318
(404) 355-0050

APPLICABLE CODES

2018 IBC with 2020 & 2022 Georgia Amendments
2018 IPC with 2020 & 2022 Georgia Amendments
2018 IMC with 2020 Georgia Amendments
2018 IFGC with 2020 & 2022 Georgia Amendments
2020 National Electric Code
2018 NFPA 101 Life Safety Code
2018 International Fire Code
Georgia Accessibility Code
2010 ADA Standards for Accessible Design
2004 ADAAG
2015 International Energy Conservation Code (IECC) with 2020 & 2022 Supplements and Amendments

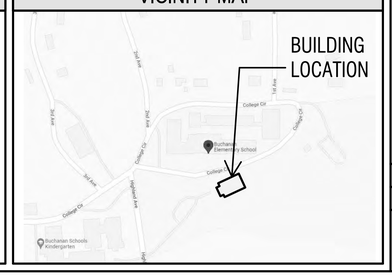
BUILDING CODE DATA

OCCUPANCY CLASSIFICATION: EXISTING EDUCATIONAL AND EXISTING ASEMBLY
CONSTRUCTION TYPE: EXISTING
SPRINKLERED: N/A
OVERALL AREA: 9120 SF
NO. OF STORIES: TWO (NOT AFFECTED BY PROPOSED SCOPE)

PROJECT SCOPE

PROJECT SCOPE SHALL INCLUDE THE REPLACEMENT OF EXISTING HVAC SYSTEM WITH NEW HVAC SYSTEM FOR THE GYMNASIUM (BUILDING 2030)

VICINITY MAP



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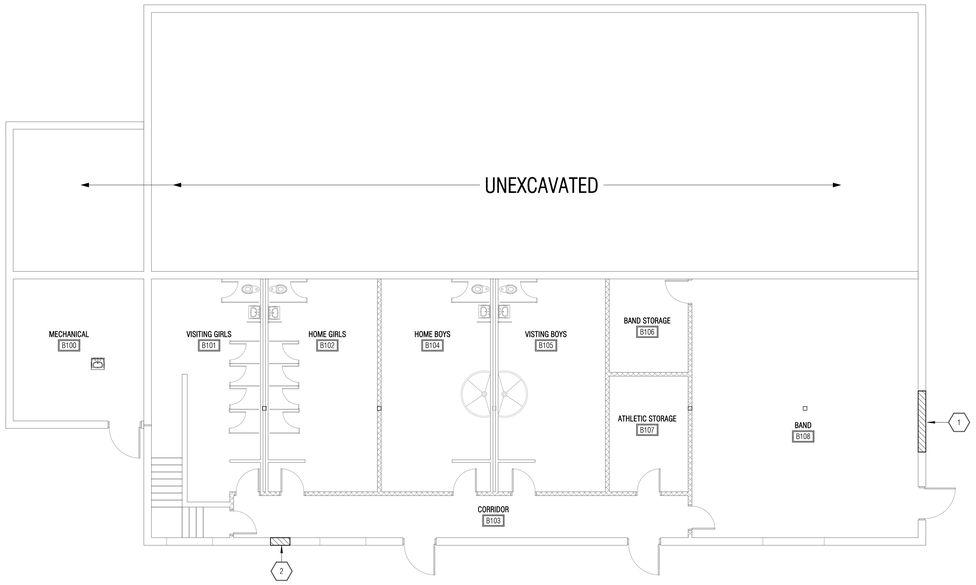
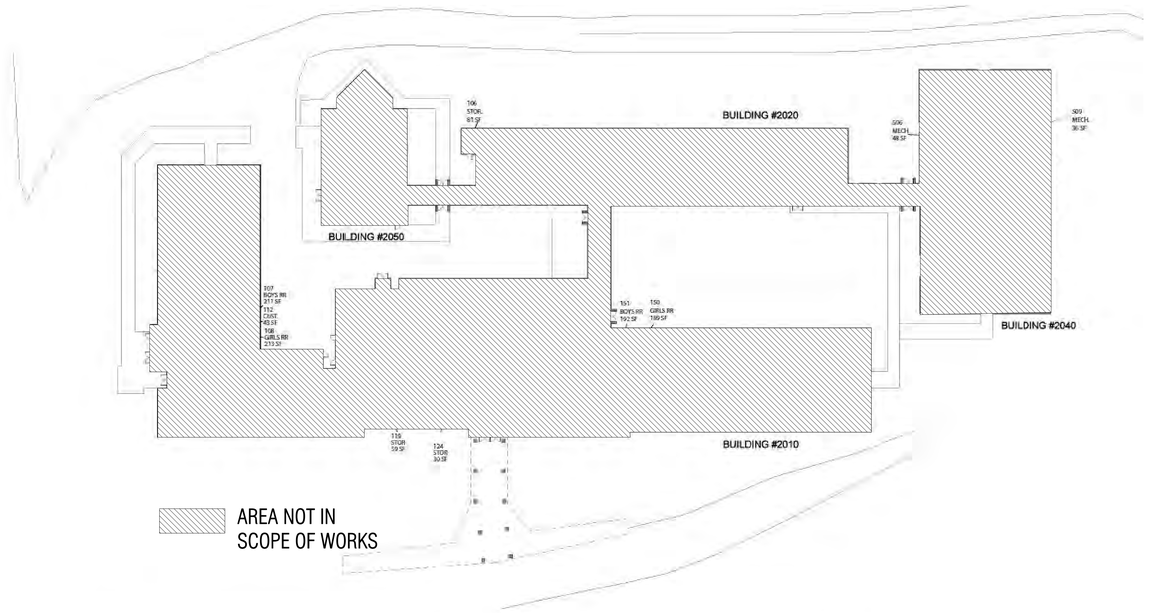
50590 SF (EXISTING AREA) + 0 SF (NEW AREA) = 50590 SF (TOTAL AREA); 349 F.T.E. (EXISTING) + 0 F.T.E. (NEW) = 349 F.T.E. (TOTAL); 36 I.U. (EXISTING) + 0 I.U. (NEW) = 36 I.U. (TOTAL)

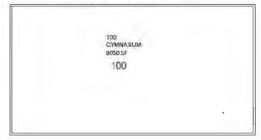


2 FLOOR PLAN - LEVEL 1
A1.0 SCALE: 1/8" = 1'-0"

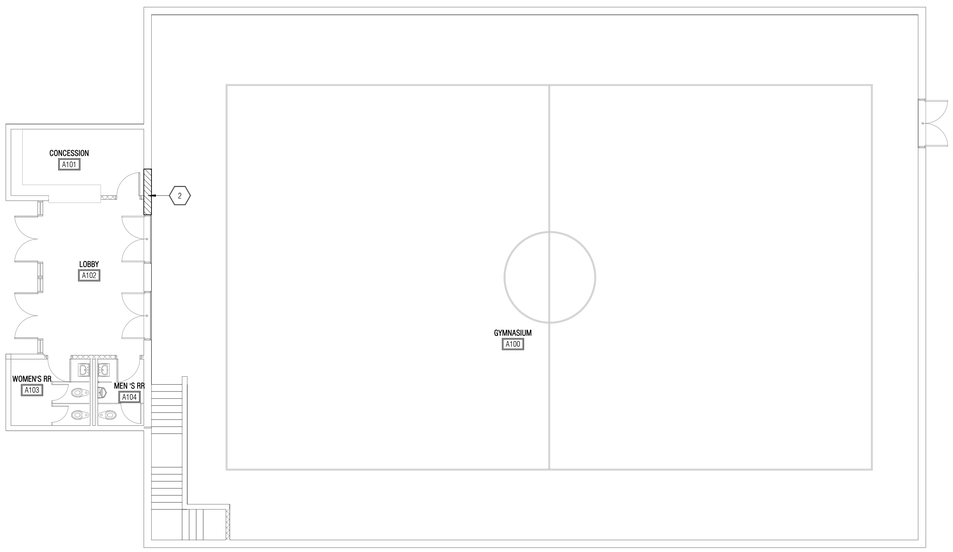
REFER TO MECHANICAL FOR ADDTION WORKS ON ROOF AND PLAN



1 OVERALL FLOOR PLAN
A1.0 SCALE: N.T.S.



NO	DRAWING NOTES
1	DEMOLISH EXISTING WINDOW. INFILL OPENING AND FINISH TO MATCH EXISTING .
2	REMOVE EXISTING WALL EXHAUST FAN. PATCH AND FINISH TO MATCH EXISTING



REFER TO MECHANICAL FOR ADDTION WORKS ON ROOF AND REFLETED CEILING PLAN

3 FLOOR PLAN - LEVEL 2
A1.0 SCALE: 1/8" = 1'-0"

BXA
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Alpharetta, Georgia 30005 | (678) 565-4508

STATE OF GEORGIA
DOUGLAS P. BREAUX
CERTIFICATE NO. 013103
REGISTERED ARCHITECT

01/04/2023

NO	DESCRIPTION	DATE

BUCHANAN ELEMENTARY SCHOOL GYMNASIUM MODIFICATION
215 COLLEGE CIRCLE, BUCHANAN, GA 30113
(FACILITY CODE: 671-0178)

HARALSON COUNTY SCHOOLS

OVERALL PLAN, FLOOR PLAN

DATE	01/04/2023
PROJECT NO.	22131

A1.0

50590 SF (EXISTING AREA) + 0 SF (NEW AREA) = 50590 SF (TOTAL AREA): 349 F.T.E. (EXISTING) + 0 F.T.E. (NEW) = 349 F.T.E. (TOTAL); 36 I.U. (EXISTING) + 0 I.U. (NEW) = 36 I.U. (TOTAL)

1/13/2023 10:27:03 AM

PACKAGED GAS/ELECTRIC PAD-MOUNT UNIT SCHEDULE

MARK	NOM. TONS	COOLING ① MBH TOT	COOLING ① MBH SEN	COOLING ① E.A.T. DB°F	COOLING ① E.A.T. WB°F	COOLING ① SEER/EER	GAS HEATING INPUT MBH	GAS HEATING OUTPUT MBH	SUPPLY AIR FAN CFM	SUPPLY AIR FAN E.S.P. IN.WC.	MINIMUM OCCUPIED OA CFM	BASIS OF DESIGN TRANE
PMU-1	3	37.0	30.0	80.0	67.0	14.0/12.0	80.0	64.8	1,200	0.5	225	YSC036 ②
PMU-2	25	266.9	207.5	80.0	67.0	–/9.8	320.0	259.0	10,000	1.0	1,250	YSJ300 ③④⑤

① REQUIRED COOLING UNIT CAPACITIES ARE AT 95°F DB AMBIENT OAT.

② PROVIDE (1) ION GENERATOR EQUAL TO GLOBAL PLASMA SOLUTIONS GPS-FC24-AC MOUNTED IN FAN SECTION OF UNIT.

③ PROVIDE (3) ION GENERATOR EQUAL TO GLOBAL PLASMA SOLUTIONS GPS-FC48-AC MOUNTED IN FAN SECTION OF UNIT.

④ PROVIDE DUCT-MOUNTED SMOKE DETECTOR (BY DIV. 26), WIRED TO SHUT DOWN UNIT UPON DETECTION OF SMOKE. SEE PLANS FOR LOCATION.

⑤ UNIT SHALL HAVE DEMAND CONTROL VENTILATION. OA DAMPER SHALL MODULATE DURING OCCUPIED TIME BASED ON SPACE CO2 SENSOR. BASE OA CFM SHALL BE 410.

SPLIT-SYSTEM AIR CONDITIONING UNITS

MARK	COOLING * MBH TOTAL	COOLING * MBH SEN	COOLING * E.A.T. DB°F	COOLING * E.A.T. WB°F	COOLING * SEER/EER	INDOOR UNIT SA CFM	INDOOR UNIT ESP IN.WC.	INDOOR UNIT HP	GAS HEATING INPUT MBH	GAS HEATING OUTPUT MBH	BASIS OF DESIGN TRANE INDOOR UNIT ①	OUTDOOR UNIT	EVAPORATOR COIL
AC/CU-1	35.8	27.3	80	67	16.0/13.0	1,200	0.5	1/2	40.0	38.9	S9X1B040	4TTR436	4PXACU48BS3

* REQUIRED COOLING – UNIT CAPACITIES ARE AT 95°F DB AMBIENT OAT.

① PROVIDE ONE GLOBAL PLASMA SOLUTIONS GPS-FC24-AC BI-POLAR IONIZATION DEVICE FOR EACH AIR HANDLER. INSTALL PER MANUFACTURER'S INSTRUCTIONS AT SUPPLY FAN INLET OF EACH UNIT. POWER FOR UNIT SHOULD BE OBTAINED FROM THE CONTROL TERMINAL STRIP OF THE AIR HANDLER.

FAN SCHEDULE

MARK	FAN DATA CFM	E.S.P. IN.WC.	MAX SONES	WATTS	RPM	DRIVE	CONTROL	FAN TYPE	BASIS OF DESIGN GREENHECK U.N.O.
EF-1	100	0.25	1.0	128	708	DIRECT	LIGHTING	CEILING EXHAUST FAN	SP-B150
EF-2	100	0.25	1.0	128	708	DIRECT	LIGHTING	CEILING EXHAUST FAN	SP-B150

DIFFUSERS, REGISTERS, AND GRILLES

MARK	NECK SIZE
S-1A	6"ø
S-1B	8"ø
S-1C	10"ø
S-1D	12"ø
S-1E	14"ø
S-1F	15"ø

SQUARE STEEL 4-CONE CEILING SUPPLY AIR DIFFUSER

- 24x24 UNIFORM MODULE/FACE SIZE – FACTORY INSULATED.
- INTEGRAL ROUND NECK SIZE AS SCHEDULED.
- FIXED 4-WAY DISCHARGE AIR PATTERN.
- COORDINATE BORDER AND FRAME WITH CEILING TYPE (LAY-IN TYPE 31 FULL FACE OR GYPBOARD TYPE 31 FULL FACE).
- PRICE SERIES SCD OR APPROVED PRODUCT.

MARK	NECK SIZE
R-1	SIZE SHOWN ON DWGS

HEAVY-DUTY ALUMINUM BAR RETURN AIR GRILLE

- 1/2" BLADE SPACING, 0° DEFLECTION, PARALLEL TO LONG/ HORIZONTAL DIMENSION.
- SURFACE-MOUNT ALUMINUM BORDER SHALL BE CONTINUOUSLY WELDED.
- CORE BLADES SHALL BE HELD BY MANDREL TUBES NOT TO EXCEED 12" ON CENTER.
- PRICE SERIES 97 OR APPROVED PRODUCT.

NOTES:

1. PROVIDE ALUMINUM DEVICES (INCLUDING DAMPERS) FOR "WET" ROOMS (TOILETS, LOCKERS, SHOWERS, ETC.)
2. E=EXHAUST AIR; R=RETURN AIR; TA=TRANSFER AIR.
3. PROVIDE FULL-FACE DEVICES ONLY; PANEL-MOUNTED WILL NOT BE ACCEPTED FOR ANY DEVICES.
4. ALL DEVICES SHALL BE FACTORY PAINTED POWDER COAT B12 WHITE, U.N.O.
5. ALL OPPOSED BLADE DAMPERS SHALL BE FACTORY PAINTED BLACK.
6. ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL BE 4-WAY (FIELD ADJUSTABLE) DISCHARGE, UNLESS NOTED OTHERWISE.
7. ALL DEVICES SPECIFIED AS ADJUSTABLE, SHALL BE ADJUSTABLE WITHOUT USING SPECIAL TOOLS.
8. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

HVAC LEGEND **

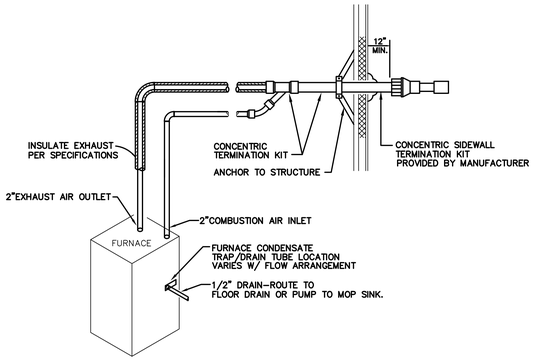
HVAC DUCT SYMBOLS

DOUBLE LINE	SINGLE LINE	DESCRIPTION
12x6	12x6	DUCT (WIDTH x DEPTH)
		DUCT TURNED UP (SUPPLY OR DISCHARGE)
		DUCT TURNED DOWN (SUPPLY OR DISCHARGE)
		DUCT TURNED UP (RETURN OR EXHAUST)
		DUCT TURNED DOWN (RETURN OR EXHAUST)
R	R	RISE – IN DIRECTION OF AIR FLOW
D	D	DROP – IN DIRECTION OF AIR FLOW
SD	SD	SPLITTER DAMPER
		DUCT SIZE TRANSITION
		END OF DUCT RUN
		DUCT TURN WITH RADIUS ELBOW
		SQUARE TURN WITH VANE ELBOW
		LINED DUCTWORK
		FIRE DAMPER IN HORIZONTAL DUCT
		FIRE DAMPER IN VERTICAL DUCT
SMK	SMK	SMOKE DAMPER IN HORIZONTAL DUCT
		FLEXIBLE AIR DUCT
VCD	VCD	VOLUME CONTROL DAMPER
M	M	MOTOR OPERATED DAMPER
BDD	BDD	BACKDRAFT DAMPER
SD	SD	SMOKE DETECTOR IN HORIZONTAL DUCT
SD	SD	SMOKE DETECTOR IN VERTICAL DUCT
T	T	THERMOSTAT
H	H	HUMIDISTAT
TC	TC	TIME CLOCK
		AIR FLOW DIRECTION

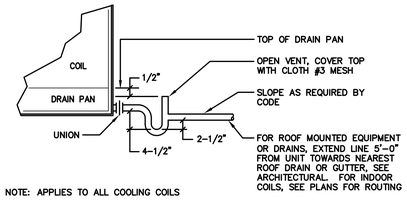
S-1 / 250 — MARK (SEE SCHEDULE) / AIR DISTRIBUTION DEVICE / CFM (AIR FLOW)

ABBREVIATIONS	DESCRIPTION
IN.WC.	INCHES OF WATER COLUMN
CFM	CUBIC FEET PER MINUTE
OA	OUTSIDE AIR
SA	SUPPLY AIR
RA	RETURN AIR
TD	TRANSFER DUCT
A/C	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
TTS	TIGHT TO STRUCTURE
TYP	TYPICAL
CLG	CEILING
DWG	DRAWING
SPEC	SPECIFICATIONS
UNO	UNLESS NOTED OTHERWISE
D	CONDENSATE DRAIN
ESP	EXTERNAL STATIC PRESSURE
MBH	BTU per HOUR x 1000
DB	DRY BULB
WB	WET BULB
HP	HORSEPOWER, HEAT PUMP
KW	KILOWATT
VCD	VOLUME CONTROL DAMPER
INw	INTERLOCK WITH
FDL	FIRE-RATED DOOR LOUVER
FCU	FAN COIL UNIT
EUH	ELECTRIC UNIT HEATER
ECH	ELECTRIC CEILING HEATER
EWH	ELECTRIC WALL HEATER
ERV	ENERGY RECOVERY VENTILATOR
IJS	IN JOIST SPACE
TJW	THRU JOIST WEBS

** NOTE: ALL SYMBOLS/ABBREVIATIONS MAY NOT APPEAR ON DWGS.

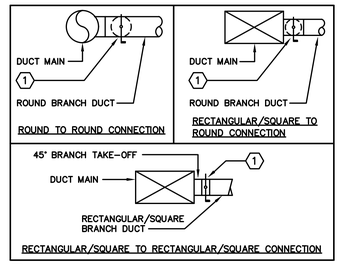


GAS VENT/INTAKE DETAIL
NO SCALE



NOTE: APPLIES TO ALL COOLING COILS

CONDENSATE DRAIN TRAP DETAIL
NO SCALE



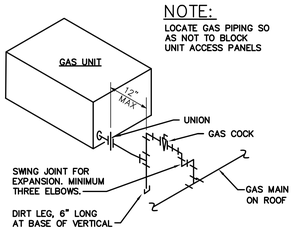
① FOR ACCESSIBLE CEILINGS (LAY-IN OR ACCESS DOOR PROVIDED): PROVIDE MANUAL DAMPER WITH LOCKING QUADRANT WITH 2" STAND-OFF BRACKET. PROVIDE NO AIR SCOOPS, AND MIN. 26 GAUGE CONSTRUCTION.

FOR INACCESSIBLE CEILINGS (GYPBOARD): PROVIDE YOUNG REGULATOR 5020-CC ROUND VOLUME CONTROL DAMPER (830A-CC FOR RECTANGULAR) WITH 270-896C BOWDEN CABLE CONTROL KIT. FOR DAMPERS ASSOCIATED WITH LINEAR SLOT DIFFUSERS, SEE DETAIL THIS SHEET. GROUP REGULATORS ONLY ABOVE LAY-IN CEILINGS. DO NOT INSTALL IN GYP CEILING UNLESS SPECIFICALLY DIRECTED SO BY THE ARCHITECT.

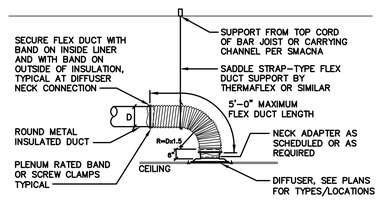
DETAIL APPLIES TO SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR SYSTEMS, AS APPLICABLE.

BRANCH DUCT CONNECTION DETAIL
NO SCALE

NOTE:
LOCATE GAS PIPING SO AS NOT TO BLOCK UNIT ACCESS PANELS

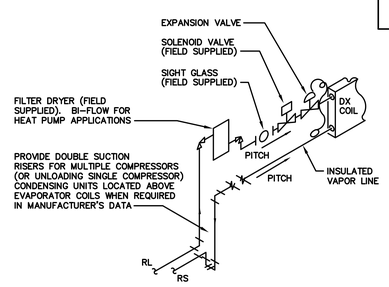


GAS CONN. TO GAS UNIT
NO SCALE



NOTES:
D = DIFFUSER NECK SIZE (IN INCHES) AS SCHEDULED.
TYPICAL INSTALLATION, UNLESS SHOWN OTHERWISE ON THE PLANS.

TYPICAL DIFFUSER CONNECTION DETAIL
NO SCALE



DX COIL CONNECTION DETAIL
NO SCALE

AC DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
CAP	CAP EXISTING AND REMOVE
C	CONNECT NEW TO EXISTING
	NEW WORK
R	RELOCATE EXISTING
Rxxx	READJUST TO NEW AIR QUANTITY

BAA Breaux & Associates ARCHITECTS
5955 Shiloh Road East, Suite 200
Alpharetta, Georgia 30005 | (678) 585-4508

GEORGIA REGISTERED No. 22997 PROFESSIONAL ENGINEER JEFFREY L. LEE

01-04-2023

BAA MECHANICAL ENGINEERS, INC.
500 Bishop Street | Suite E-2 | Atlanta, Ga 30318 | 404-355-0050

NO	DESCRIPTION	DATE

BUCHANAN ELEMENTARY SCHOOL GYMNASIUM MODIFICATION
215 COLLEGE CIRCLE, BUCHANAN, GA 30113
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HARALSON COUNTY SCHOOLS

HVAC LEGENDS, SCHEDULES, AND DETAILS

DATE 01/04/2023
PROJECT NO. 22131

M1.0

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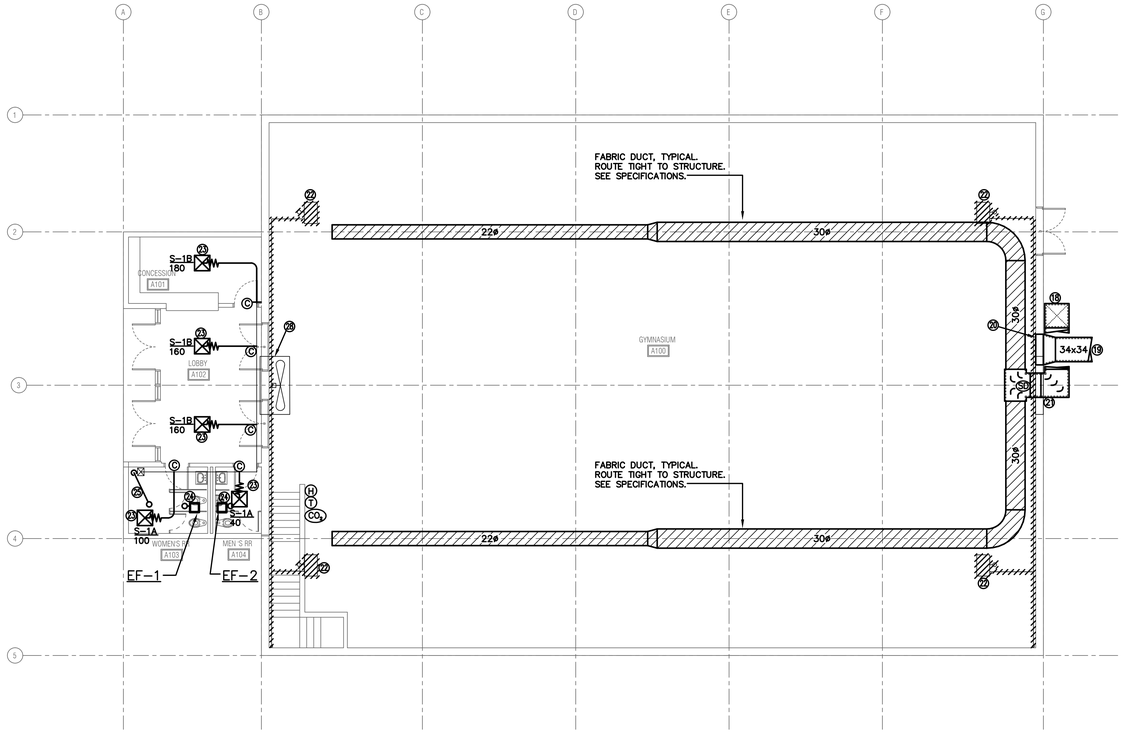
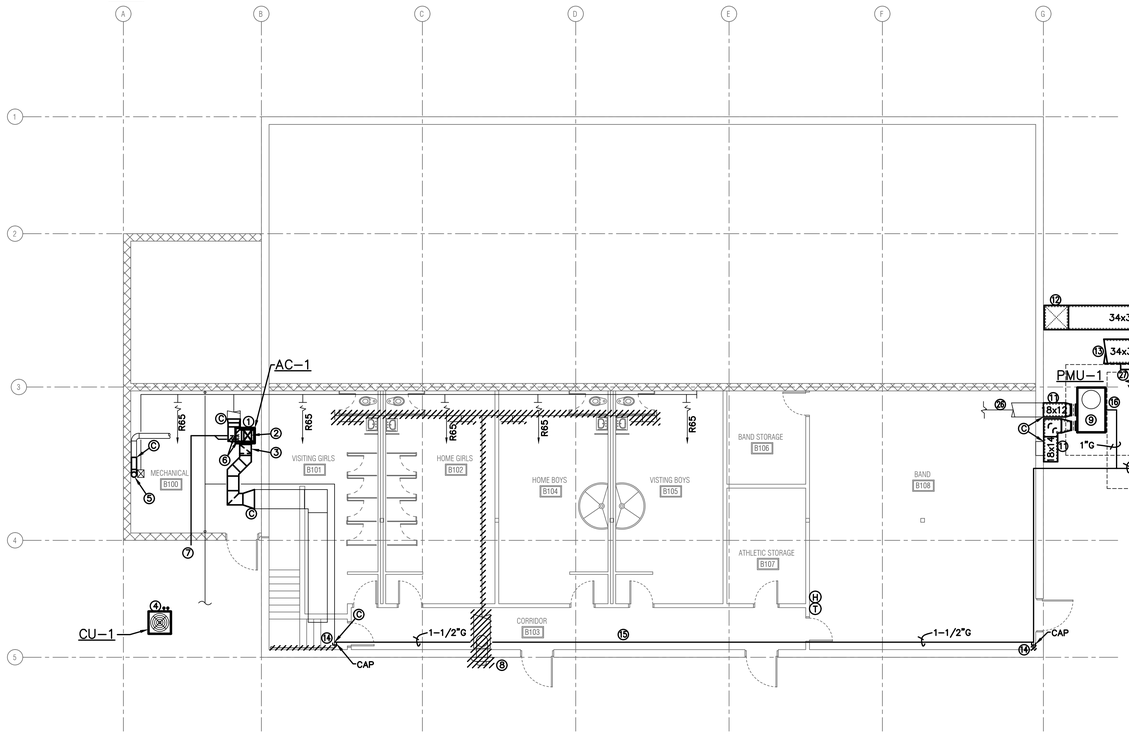


2	UPPER LEVEL HVAC FLOOR PLAN
M1.1	1/8" = 1'-0"



1	LOWER LEVEL HVAC FLOOR PLAN
M1.1	1/8" = 1'-0"

KEY NOTES: (THIS SHEET ONLY)

1. REMOVE AND REPLACE EXISTING FURNACE AND COOLING COIL. CONNECT CONDENSATE TO EXISTING. DISCONNECT/RECONNECT EXISTING GAS PIPING. REMOVE EXISTING VENT FLUE. CLEAN ALL ASSOCIATED EXISTING DUCTWORK.
2. 18x12 SA DROP AND CONNECT TO COOLING COIL.
3. 18x14 RA DROP AND CONNECT TO PLENUM BELOW UNIT.
4. REMOVE AND REPLACE EXISTING CONDENSING UNIT. CONNECT TO EXISTING REFRIGERANT PIPING BELOW GRADE. PURGE AND CLEAN EXISTING LINES PER MFG. RECOMMENDATIONS.
5. REMOVE EXISTING 10" GAS FLUE UP. REPLACE WITH NEW 8" FLUE AND CONNECT TO EXISTING WATER HEATER FLUE.
6. 3"ø COMBUSTION AIR AND GAS VENT.
7. TERMINATE COMBUSTION AIR AND VENT WITH CONCENTRIC SIDEWALL TERMINATION.
8. REMOVE EXISTING SIDEWALL EXHAUST FAN, CONTROLS, AND ALL ASSOCIATED DUCTWORK AND GRILLES. PATCH WALL TO MATCH EXISTING.
9. NEW 3-TON PAD-MOUNT GAS/ELECTRIC UNIT. MOUNT ON 12"HIGH CURB ON TOP OF EXISTING CONCRETE PAD.
10. NEW 25-TON PAD-MOUNT GAS/ELECTRIC UNIT. EXTEND EXISTING CONCRETE PAD AS REQUIRED FOR NEW UNIT. MOUNT ON 12"HIGH CURB ON TOP OF CONCRETE PAD.
11. INTERNALLY LINED EXPOSED DUCTWORK WITH EXTERNAL DUCT CLADDING. SEE SPECIFICATIONS.
12. 34x34 SA RISE TIGHT TO WALL. SEE 2/M1.1 FOR CONTINUATION.
13. 34x34 RA. SEE 2/M1.1 FOR CONTINUATION.
14. CAP AND REMOVE EXISTING GAS PIPING AS SHOWN. GAS PIPING MAY BE ABANDONED AS AN ALTERNATE.
15. NEW 1-1/2"G
16. 1"G CONNECT TO UNIT W/GAS COCK, UNION, AND DIRT LEG. SEE SHEET M1.0 FOR DETAIL.
17. 1-1/2"G CONNECT TO UNIT W/GAS COCK, UNION, AND DIRT LEG. SEE SHEET M1.0 FOR DETAIL
18. 34x34 SA DROP TIGHT TO WALL. SEE 1/M1.1 FOR CONTINUATION.
19. 34x34 RA. SEE 1/M1.1FOR CONTINUATION.
20. R-1 RETURN GRILLE. BOTTOM OF GRILLE ±18"A.F.F. FLASH AND COUNTER FLASH NEW DUCT PENETRATION.
21. REMOVE EXISTING INTAKE GRILLE. UTILIZE EXISTING OPENING FOR NEW SA DUCT PENETRATION. PATCH UNUSED PORTION OF OPENING TO MATCH EXISTING. FLASH AND COUNTERFLASH NEW DUCT PENETRATION.
22. REMOVE EXISTING GAS UNIT HEATER, CONTROLS, FLUE AND ASSOCIATED GAS PIPING. PATCH ROOF OPENINGS TO MATCH EXISTING. GAS PIPING MAY BE ABANDONED AS AN ALTERNATE.
23. REMOVE AND REPLACE EXISTING SUPPLY DIFFUSER.
24. REMOVE EXISTING CEILING GRILLE. REPLACE WITH NEW CEILING EXHAUST FAN. PROVIDE NEW 8" ROUND EXH. DUCT AND CONNECT TO EXISTING GRAVITY VENT AT ROOF.
25. REMOVE EXISTING 10"ø GAS FLUE. REPLACE WITH 8"ø UP THRU ROOF W/CAP.
26. CLEAN ALL EXISTING DUCTWORK.
27. FIELD INSTALLED POWER EXHAUST FAN.
28. REMOVE EXISTING SIDEWALL EXHAUST FAN AND CONTROLS. PATCH OPENING TO MATCH EXISTING.

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ARCHITECTS
5955 Shiloh Road East, Suite 200
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HARALSON COUNTY SCHOOLS

HVAC FLOOR PLANS

DATE	01/04/2023
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M1.1

10/27/2022 2:17:31 PM

NEW PANELBOARD MDP SCHEDULE

VOLTAGE: 120/208V, 3 PH, 4 W	MAINS: 300A MAIN BREAKER	MOUNTING: SURFACE	REMARKS: NEMA 3R
BUS SIZE: 400A	TOTAL LOAD: 52.80 KVA (DIVERSIFIED LOAD)	FAULT DUTY: 25,000 AIC	

NO	SERVES	NOTE	LOAD (KVA) LTG	RECPT	MTR	A/C	HTG	MISC	BRKR TRIP	P	PHASE A	B	C	BRKR P	TRIP	LOAD (KVA) MISC	HTG	A/C	MTR	RECPT	LTG	NOTE	SERVES	NO
1	PMU-2					46.4			175	3				1	20					0.2			RECEPTACLE	2
3	PMU-2													1	20								SPARE	4
5	PMU-2													1	20								SPARE	6
7	SPACE								--	-				1	20								SPARE	8
9	SPACE								--	-				-	--								SPACE	10
11	SPACE								--	-				-	--								SPACE	12
13	PMU-1					6.2			30	3				-	--								SPACE	14
15	PMU-1													-	--								SPACE	16
17	PMU-1													-	--								SPACE	18
19	SPACE								--	-				-	--								SPACE	20
21	SPACE								--	-				-	--								SPACE	22
23	SPACE								--	-				-	--								SPACE	24

LOAD SUMMARY

LIGHTING:	0.0 KVA	A/C:	52.6 KVA
RECEPTACLE:	0.2 KVA	HEATING:	0.0 KVA
MOTOR:	0.0 KVA	MISC:	0.0 KVA

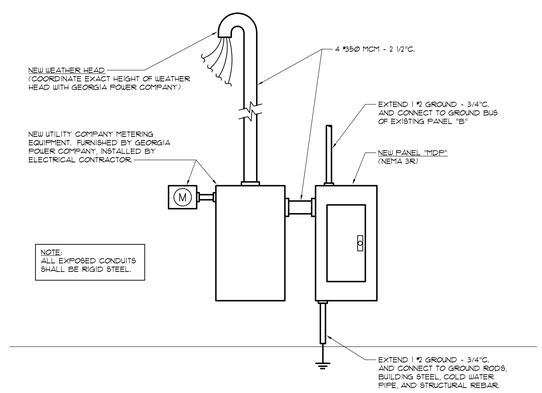
NOTES:

GENERAL ELECTRICAL NOTES

A. CONTRACTOR PROPOSING TO UNDERTAKE WORK UNDER THIS DIVISION SHALL VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT EFFECT THE WORK OR COST THEREOF, AND EXAMINE THE DRAWINGS AS RELATED TO THE SITE CONDITIONS, PRIOR TO SUBMITTING HIS PROPOSAL FOR WORK.

B. CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE AMOUNT OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS AND CONDITIONS INDICATED ON THE DRAWINGS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING HIS PROPOSAL FOR WORK.

C. CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR ALL EXISTING TO BE REMOVED HVAC EQUIPMENT. ALL ASSOCIATED ELECTRICAL SHALL BE REMOVED, INCLUDING CONDUIT. ASSOCIATED BREAKERS SHALL BE IN THE "OFF" POSITION AND LABELED "SPARE". THIS DOES NOT APPLY TO REPLACED EQUIPMENT.



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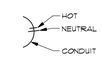
RISER DIAGRAM
NOT TO SCALE

SYMBOL LEGEND

MOUNTING HEIGHT IS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE OR OUTLET. HEIGHT MAY VARY TO COINCIDE WITH BUILDING CONSTRUCTION.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	DOWNLIGHT	
	LIGHT FIXTURE - WALL MOUNTED	AS NOTED
	2' X 4' LIGHT FIXTURE	
	2' X 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
	1' X 4' LIGHT FIXTURE	
	1' X 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
S3	KEY OPERATED THREE-WAY SWITCH	48"
S	S.P.S.T. LIGHT SWITCH	48"
	WALL MOUNTED SENSOR SWITCH, DUAL TECHNOLOGY (HUBBELL # LHMTS-1, BASIS OF DESIGN)	48"
	LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE CEILING MOUNTED OCCUPANCY SENSOR (HUBBELL # OPM-D1-2000, BASIS OF DESIGN)	---
	LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE SURFACE MOUNTED, INDOOR OCCUPANCY SENSOR FOR AREAS WHERE MOUNTING HEIGHT IS 12'-0"AFF OR HIGHER (HUBBELL # USP-SM-24V SENSOR, USP-L360-LH LENS, BASIS OF DESIGN)	---
P	POWER PACK INSTALLED ABOVE CEILING (HUBBELL # UVPP, BASIS OF DESIGN)	---
D	0-10 VOLT SLIDE DIMMER WITH ON/OFF SWITCH (INCLUDE POWER PACK IF LOAD EXCEEDS RATING OF DIMMER)	48"
S3	THREE-WAY LIGHT SWITCH	48"
S4	FOUR-WAY LIGHT SWITCH	48"
S	KEY OPERATED LIGHT SWITCH	48"
	SINGLE RECEPTACLE OUTLET (TAMPER PROOF)	18"
	DUPLEX RECEPTACLE OUTLET (TAMPER PROOF)	18"
U	DUPLEX RECEPTACLE OUTLET WITH 2 USB PORTS (TAMPER PROOF)	18"
	QUAD RECEPTACLE OUTLET (TAMPER PROOF)	18"
	DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH (TAMPER PROOF)	---
J	JUNCTION BOX W/COVERPLATE - ABOVE CEILING	---
J	JUNCTION BOX W/COVERPLATE - WALL MOUNTED	---
D	1"C. BELOW SLAB TO ACCOMMODATE DATA CABLES	---
	SPECIAL OUTLET (AS NOTED)	---
	PANELBOARD 480V	---
	PANELBOARD 240V	---
	DISCONNECT SWITCH - HORSEPOWER RATED	---
F	MOTOR - FRACTIONAL HORSEPOWER	---
	MOTOR - NUMERAL INDICATES HORSEPOWER	---
T	TELEPHONE OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM	48"
D	DATA OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM	18"
M	MICROPHONE OUTLET	18"
AV	AUDIO VISUAL OUTLET, 4"x4" JUNCTION BOX WITH 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM.	AS NOTED
F	FIRE ALARM PULL STATION	---
	FIRE ALARM STROBE (CEILING MOUNTED)(WHITE)	---
	WALL MOUNTED FIRE ALARM STROBE (WHITE)	---
	CEILING MOUNTED FIRE ALARM SPEAKER / STROBE (WHITE)	---
	WALL MOUNTED FIRE ALARM SPEAKER / STROBE (WHITE)	---
WP	WEATHER PROOF FIRE ALARM SPEAKER (PAINT TO MATCH BRICK)	---
	SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED	---
	SMOKE DETECTOR - DUCT MOUNTED	---
	HEAT DETECTOR	---
SF	SPRINKLER FLOW SWITCH	---
SD	SPRINKLER TAMPER SWITCH	---
DH	DOOR HOLD DEVICE (WALL MOUNTED)	---
DH	DOOR HOLD DEVICE (FLOOR MOUNTED)	---
PS	PRESSURE SWITCH	---
	CONDUIT CONCEALED IN WALLS, ABOVE CEILING, OR EXPOSED WHERE NO CEILING	---
	CONDUIT CONCEALED IN SLAB, IN GROUND, OR UNDERFLOOR	---
W.P.	WEATHER PROOF	---
G	GROUND FAULT INTERRUPT	---
U.N.O.	UNLESS NOTED OTHERWISE	---
NF	NON FUSED	---
SN	SOLID NEUTRAL	---



NOTE: GROUND CONDUCTOR IS NOT SHOWN, BUT IS ASSUMED, AND SHALL BE INSTALLED.

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PROFESSIONAL ENGINEER
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01-06-2023

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TELEPHONE: 770-228-8160

JKM
2022-106

NO	DESCRIPTION	DATE

BUCHANAN ELEMENTARY SCHOOL GYMNASIUM MODIFICATION
215 COLLEGE CIRCLE, BUCHANAN, GA 30113
(FACILITY CODE: 671-0178)

HARALSON COUNTY SCHOOLS

SYMBOL LEGEND, GENERAL NOTES, PANELBOARD SCHEDULE, & RISER DIAGRAM

DATE 01/04/2023
PROJECT NO. 22131

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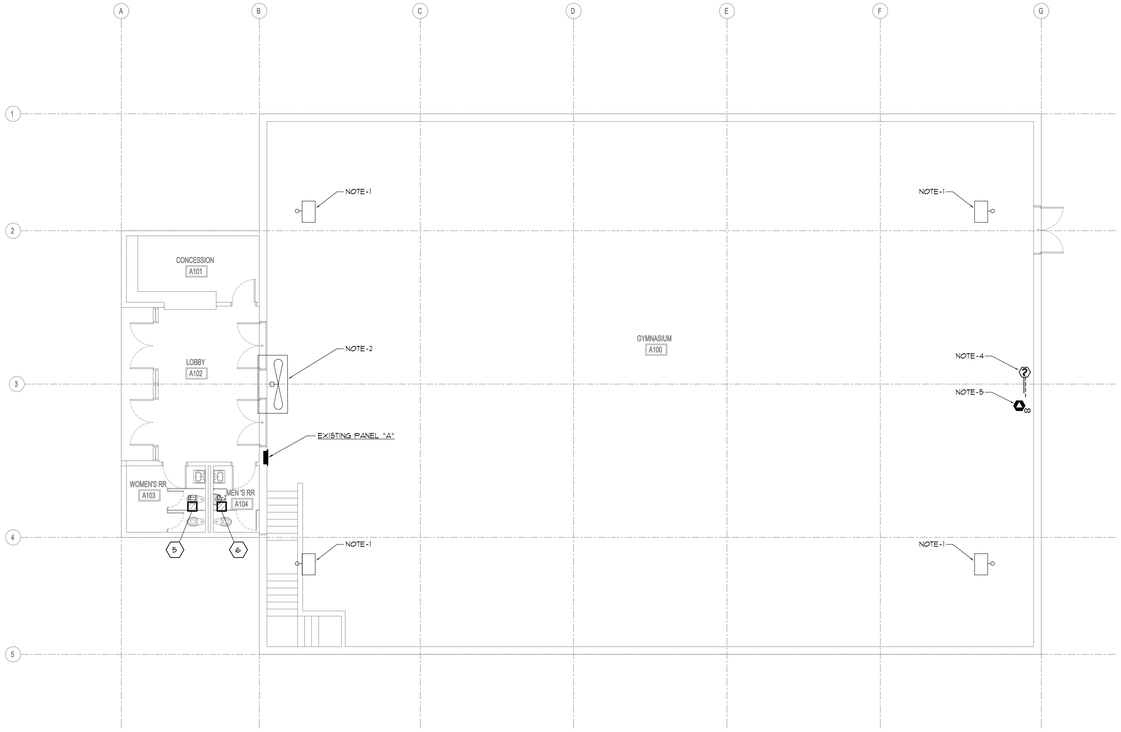
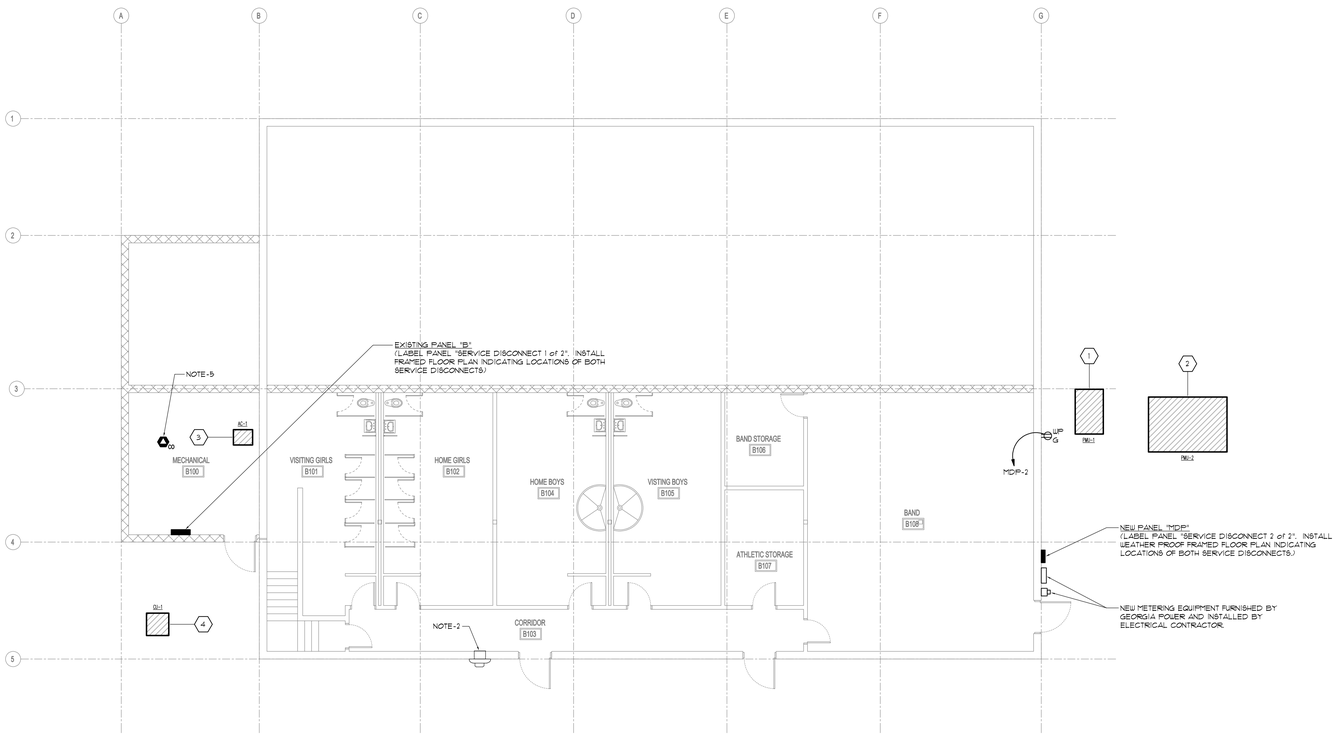


2 E1.1 UPPER LEVEL FLOOR PLAN - ELECTRICAL

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



1 E1.1 LOWER LEVEL FLOOR PLAN - ELECTRICAL

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

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

ITEM NO.	DESCRIPTION	EQUIPMENT CHARACTERISTICS					CIRCUIT	FEEDER	DISCONNECT SWITCH				REMARKS
		VOLTS	PH.	KW	HP	FLA			SIZE	PH.	FUSE	FEATURES	
1	RTU-1	208	3	--	--	17.2	MDP-13,15,17 30A/3P	3#10 & 1#10 GROUND - 1/2"C.	30	3	NF	WP	---
2	RTU-2	208	3	--	--	126.0	MDP-13,15 175A/3P	3#1/0 & 1#6 GROUND - 2"C.	200	3	NF	WP	---
3	AC-1	120	1	--	--	8.8	NOTE-3 15A/1P	2#12 & 1#12 GROUND - 1/2"C.	30	1	NF	SN	---
4	CU-1	208	1	--	--	14.2	NOTE-3 30A/2P	2#10 & 1#10 GROUND - 1/2"C.	30	2	NF	WP	---
5	EF-1	120	1	0.13	--	--	CONTROLLED BY LIGHTING CKT.	2#12 & 1#12 GROUND - 1/2"C.	--	-	--	MANUAL STARTER	---
6	EF-2	120	1	0.13	--	--	CONTROLLED BY LIGHTING CKT.	2#12 & 1#12 GROUND - 1/2"C.	--	-	--	MANUAL STARTER	---

ELECTRICAL NOTES

1. REMOVE EXISTING WIRING AND DISCONNECT SERVING EXISTING TO BE REMOVED GAS UNIT HEATER. LABEL BREAKER AS A "SPARE" AND LEAVE IN "OFF" POSITION.
2. REMOVE EXISTING WIRING AND DISCONNECT SERVING EXISTING TO BE REMOVED SIDE WALL EXHAUST FAN. LABEL BREAKER AS A "SPARE" AND LEAVE IN "OFF" POSITION.
3. INSTALL NEW BREAKER, SIZE AS SCHEDULED, IN EXISTING PANEL "B". NEW BREAKER SHALL BE OF THE SAME MANUFACTURER AS EXISTING PANEL AND MATCH AIC RATING OF EXISTING PANEL. PROPERLY UPDATE PANEL DIRECTORY. CONTRACTOR IS ALLOWED TO REUSE EXISTING CONDUIT IF PRESENT INSTALLATION MEETS CODE. NEW WIRING, DISCONNECT, AND FLEXIBLE CONNECTIONS ARE REQUIRED.
4. NEW DUCT MOUNTED SMOKE DETECTOR SHALL BE FURNISHED BY DIVISION 26, INSTALLED BY DIVISION 23, AND WIRED BY DIVISION 26. NEW DUCT DETECTOR SHALL BE OF THE SAME MANUFACTURER AS EXISTING FIRE ALARM CONTROL PANEL. THIS CONTRACTOR IS RESPONSIBLE FOR PROPER INTEGRATION OF NEW DUCT MOUNTED SMOKE DETECTOR WITH EXISTING FIRE ALARM CONTROL PANEL, INCLUDING PROGRAMMING.
5. NEW CARBON MONOXIDE DETECTOR SHALL BE OF THE SAME MANUFACTURER AS EXISTING FIRE ALARM CONTROL PANEL. THIS CONTRACTOR IS RESPONSIBLE FOR PROPER INTEGRATION OF NEW CARBON MONOXIDE DETECTOR WITH EXISTING FIRE ALARM CONTROL PANEL, INCLUDING PROGRAMMING.

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NO	DESCRIPTION	DATE

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HARALSON COUNTY SCHOOLS

FLOOR PLANS - ELECTRICAL

DATE	01/04/2023
PROJECT NO.	22131

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