HVAC LEGEND

SYMBOL	DESCRIPTION
	SUPPLY DUCT
	RETURN OR EXHAUST DUCT
	RECTANGULAR DUCT UP (SUPPLY SHOWN)
	RECTANGULAR DUCT DOWN (SUPPLY SHOWN)
20 X 12	RECTANGULAR DUCTWORK - 20" SIDE SHOWN x 12" SIDE NOT SHOWN
20 X 12	DUCTWORK LINED WITH FIBERGLASS DUCT LINER - INSIDE DIMENSION SHOWN
	MITERED ELBOW WITH DOUBLE THICKNESS TURNING VANES
	FULL RADIUS ELBOW
	FLEXIBLE CONNECTION
	FLEXIBLE DUCTWORK
	SPIN-IN FITTING WITH SCOOP AND MANUAL DAMPER
	SPIN-IN FITTING WITH MANUAL DAMPER
	SPIN-IN FITTING WITH SCOOP
	ROUND DUCT UP
	ROUND DUCT DOWN
AP	ACCESS PANEL (AP) OR ACCESS DOOR (AD) - ACCESS PANEL SHOWN
FD	1-1/2 HOUR FIRE DAMPER (UL 555) WITH ACCESS DOOR OR PANEL
FD-3	3 HOUR FIRE DAMPER (UL 555) WITH ACCESS DOOR OR PANEL
FD-SS	1-1/2 HOUR STAINLESS STEEL FIRE DAMPER (UL 555) W/ ACCESS DOOR OR PANEL
S.D.	SPLITTER DAMPER
	SMOKE DAMPER (UL 555S) WITH ACCESS DOOR OR PANEL
FSD	COMBINATION FIRE & SMOKE DAMPER (UL 555S) WITH ACCESS DOOR OR PANEL
BDD	BACK-DRAFT DAMPER WITH ACCESS DOOR OR PANEL
MVD	MANUAL VOLUME DAMPER WITH ACCESS DOOR OR PANEL
MOD	MOTOR OPERATED DAMPER WITH ACCESS DOOR OR PANEL
	DUCT MOUNTED SMOKE DETECTOR, FURNISHED BY ELEC, INSTALLED BY HVAC
RS	REFRIGERANT SUCTION PIPING
RL	REFRIGERANT LIQUID PIPING
HG	REFRIGERANT HOT GAS PIPING
HS	HOT WATER SUPPLY PIPING
HR	HOT WATER RETURN PIPING
D	CONDENSATE DRAIN PIPING
CS	CIRCULATING WATER SUPPLY PIPING
CR	CIRCULATING WATER RETURN PIPING
CTS	COOLING TOWER WATER SUPPLY PIPING
CTR	COOLING TOWER WATER RETURN PIPING
CW	COLD WATER PIPING
	PIPE TURNING UP
	PIPE TURNING DOWN
	TEE CONNECTION IN SIDE OF PIPE
	TEE CONNECTION IN BOTTOM OF PIPE
	TEE CONNECTION IN TOP OF PIPE
	UNION
	END CAP
	CONCENTRIC REDUCER/REDUCER
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	CHECK VALVE
	THREE WAY CONTROL VALVE
	MOTOR OPERATED BUTTERFLY VALVE
	MOTOR OPERATED CONTROL VALVE
	BALANCE VALVE
	FLOW CONTROL VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	BACKFLOW PREVENTER
	STRAINER
	STRAINER WITH BLOW-OFF VALVE
MAV	MANUAL AIR VENT
AAV	AUTOMATIC AIR VENT
	PRESSURE GAUGE
	NEEDLE VALVE IN 1/4" GAUGE LINE
	PRESSURE TAP
	THERMOMETER
	THERMOMETER WELL IN PIPING
	FLOOR DRAIN LOCATION FOR REFERENCE
	CONDENSATE P-TRAP LOCATION FOR REFERENCE
F	FLOW SWITCH
P	PRESSURE DIFFERENTIAL SWITCH
	DUCTLESS SPLIT SYSTEM UNIT CONTROLLER
T	EMS TEMPERATURE SENSOR
T/H	EMS SPACE TEMPERATURE AND HUMIDITY SENSOR - TWO SEPARATE J-BOXES
H	EMS SPACE HUMIDITY SENSOR
C	EMS SPACE CARBON DIOXIDE SENSOR
AFF	ABOVE FINISHED FLOOR
A/C	ABOVE CEILING
O.A.	OUTSIDE AIR
R.A.	RETURN AIR
S.A.	SUPPLY AIR
N.I.C.	NOT IN CONTRACT
W.O.	WALL OPENING
T'STAT	THERMOSTAT
R_	RISE IN DIRECTION OF ARROW
D_	DROP IN DIRECTION OF ARROW
	DENOTES 1 HR FIRE RATED WALL, VERIFY ON ARCHITECTURAL DRAWINGS
	DENOTES 2 HR FIRE RATED WALL, VERIFY ON ARCHITECTURAL DRAWINGS
BD-#	BYPASS DAMPER WITH SIZE INDICATED
ZD-#	ZONE DAMPER WITH SIZE INDICATED

AIR DISTRIBUTION DEVICES

MARK	TYPE	NOMINAL SIZE	NECK SIZE	BRANCH DUCT SIZE	SERVICE
A	LCD	9 x 9	8"ø	8"ø - FLEX. MAX. 5' LONG	SUPPLY
AA	CD	9 x 9	8"ø	8"ø - FLEX. MAX. 5' LONG	SUPPLY
B	LCD	12 x 12	8"ø	8"ø - FLEX. MAX. 5' LONG	SUPPLY
BB	CD	12 x 12	8"ø	8"ø - FLEX. MAX. 5' LONG	SUPPLY
C	LCD	12 x 12	10"ø	10"ø - FLEX. MAX. 5' LONG	SUPPLY
CC	CD	12 x 12	10"ø	10"ø - FLEX. MAX. 5' LONG	SUPPLY
D	LCD	15 x 15	12"ø	12"ø - FLEX. MAX. 5' LONG	SUPPLY
DD	CD	15 x 15	12"ø	-	SUPPLY
E	LCG	24 x 24	22 x 22	-	RETURN
EE	CG	24 x 24	22 x 22	-	RETURN
F	LCG	24 x 14	22 x 14	-	RETURN
FF	CG	24 x 14	22 x 14	-	RETURN
G	CG	12 x 12	12 x 12	-	RETURN
H	CR	8 x 8	6"ø	6"ø - FLEX. MAX. 5' LONG	EXHAUST
I	CR	10 x 10	8"ø	8"ø - FLEX. MAX. 5' LONG	EXHAUST
J	CR	12 x 12	10"ø	10"ø - FLEX. MAX. 5' LONG	EXHAUST
K	TR	16 x 8	16 x 8	-	SUPPLY
L	TG	16 x 8	16 x 8	-	RETURN
M	HTG	16 x 16	16 x 16	-	RETURN
N	LSD	48" LONG	14"ø	14"ø - FLEX. MAX. 5' LONG	SUPPLY
O	OBD	DUCT SIZE	SEE PLANS		EA / OA
P	DSR	22 x 8	22 x 8	-	SUPPLY
Q	HTG	64 x 32	64 x 32	-	RETURN
R	HTG	36 x 16	36 x 16	-	RETURN
		16 x 8	16 x 8	-	EXHAUST
V	VVD	24 x 24	6"ø	NO FLEX	SUPPLY
X	EXISTING DEVICE, BALANCE TO CFM SHOWN				
SA	LSD	48 x 6 SLOT	14"ø	----	SUPPLY
SB	DL	18 x 6	18 x 6	----	SUPPLY
SC	DL	24 x 6	24 x 6	----	SUPPLY
SA	HTG	12 x 12	12 x 12	-	TRANSFER
SB	HTG	16 x 16	16 x 16	-	TRANSFER
SC	HTG	24 x 8	24 x 8	-	TRANSFER
SD	BV	24 x 8	24 x 8	-	TRANSFER

AIR DISTRIBUTION DEVICES LEGEND

SYMBOL	DESCRIPTION	FINISH
LCD	LAY-IN CEILING SUPPLY DIFFUSER - KRUEGER 5SH, SQUARE LOUVERED FACE ALUMINUM DIFFUSER WITH 24"x24" LAY-IN FRAME. DIFFUSER SHALL BE FOUR WAY THROW UNLESS OTHERWISE NOTED ON PLANS.	WHITE ANODIC ACRYLIC
CD	CEILING SUPPLY DIFFUSER - KRUEGER 5SH, SQUARE LOUVERED FACE ALUMINUM DIFFUSER WITH FLAT SURFACE MOUNT FRAME, OPPOSED BLADE DAMPER. DIFFUSER SHALL BE FOUR WAY THROW UNLESS OTHERWISE NOTED ON PLANS.	WHITE ANODIC ACRYLIC
LCG	LAY-IN CEILING RETURN GRILLE - KRUEGER EGC5, ALUMINUM EGGCRATE GRILLE, 1/2"x1/2"x1/2" GRID CORE WITH 24"x24" LAY-IN FRAME AND DUCT CONNECTION FLANGE.	WHITE ANODIC ACRYLIC
CG	CEILING RETURN GRILLE - KRUEGER EGC5, ALUMINUM EGGCRATE GRILLE, 1/2"x1/2"x1/2" CORE AND FLAT SURFACE MOUNT FRAME.	WHITE ANODIC ACRYLIC
CR	CEILING EXHAUST REGISTER - KRUEGER EGC5, ALUMINUM EGGCRATE GRILLE, 1/2"x1/2"x1/2" CORE, OPPOSED BLADE VOLUME DAMPER AND FLAT SURFACE MOUNT FRAME.	WHITE ANODIC ACRYLIC
TR	HIGH SIDEWALL SUPPLY REGISTER - KRUEGER AFS880V, DOUBLE DEFLECTION EXTRUDED ALUMINUM REGISTER WITH AIRFOIL BLADES SPACED AT 3/4", OPPOSED BLADE VOLUME DAMPER AND FLAT BORDER.	WHITE ANODIC ACRYLIC
TG	HIGH SIDEWALL RETURN GRILLE - KRUEGER 5895H, GRILLE WITH HORIZONTAL ANGLE ALUMINUM BLADES SPACED 1/2" @ 35° UP, FLAT ALUMINUM FRAME.	WHITE ANODIC ACRYLIC
OBD	OPPOSED BLADE VOLUME DAMPER - KRUEGER OBD0M STEEL OPPOSED BLADE DAMPER FOR SQUARE DUCT INSTALLATION (PRDIC FOR ROUND DUCT).	MILL
VVD	VARIABLE VOLUME CEILING DIFFUSER - ACCUTHERM THERMA-FUSER TF-IC-DA SQUARE 24" x 24" LAY-IN DIFFUSER, THERMALLY POWERED VARIABLE AIR CONTROL UNIT AND THERMALLY POWERED CHANGE-OVER UNIT FOR HEATING AND COOLING. PROVIDE WIRED REMOTE TEMPERATURE SENSOR W/35 FT CONTROL CABLE AND 120V/24V CONTROL XFMR	WHITE ANODIC ACRYLIC
LSD	LINEAR SLOT DIFFUSER - KRUEGER 1900 FOUR FOOT LONG, 2-3/4" SLOT, VERTICAL THROW BOOT-DIFFUSER WITH FIBERGLASS INSULATED PLENUM WITH DUCT CONNECTION FLANGE, 6 FRAME THAT CAN BE SUSPENDED EVEN WITH OPEN FRAME CEILING.	SELECTED BY ARCH.
DSR	DUCT MOUNTED SUPPLY REGISTER - KRUEGER DMSDR-V, DOUBLE DEFLECTION ALUMINUM SUPPLY REGISTER, EXTRACTOR / DAMPER AND RADIUSED ENDCAPS TO FIT DUCT DIAMETER, SEE PLANS FOR DIAMETER.	SELECTED BY ARCH.
HTG	HEAVY DUTY HIGH SIDEWALL RETURN GRILLE - KRUEGER 5548DH, HEAVY DUTY ALUMINUM GRILLE WITH HORIZONTAL .1" THICK ALUMINUM ANGLE BLADES SPACED 1/2" @ 30° UP, VERTICAL MULLIONS 4" O.C. AND FLAT FRAME.	SELECTED BY ARCH.
BV	SIDEWALL BLOCK VENT - RUSKIN EXTRUDED ALUMINUM BLOCK VENT WITH HORIZONTAL ANGLE BLADES @ 45° SPACED ON 1" CENTERS, 4" DEPTH, INSECT SCREEN AND FLAT FLANGED FRAME.	SELECTED BY ARCH.

NOTE: MANUFACTURER SHALL FURNISH FINISHED SCREWS FOR ALL AIR DISTRIBUTION DEVICES TO MATCH FINISH OF THAT DEVICE.

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CGLS ARCHITECTS
CHAPMAN GRIFFIN LANIER SUSSENBACH, INC.

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RELEASED FOR CONSTRUCTION

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SEAL
GEORGIA REGISTERED No. 31460 PROFESSIONAL ENGINEER BARRY L. SPURLOCK

DATE	NO.	DESCRIPTION
03/27/18		SCPA PRELIMINARY SUBMITTAL DESIGN DEVELOPMENT
06/18/18		SCPA CONSTRUCTION DOCUMENTS
09/17/18		CODE CHECK-SET/ PERMIT SET
10/10/18		FINAL SCPA SUBMITTAL
11/01/18		ISSUED FOR PROPOSALS

DOE FACILITY CODE: 660 -3066
RIVERWOOD HIGH SCHOOL-PHASE 3-8
AUDITORIUM / GYMNASIUM ADDITION
5900 RAIDER DRIVE NW SANDY SPRINGS, GA 30328
FULTON COUNTY SCHOOLS RFP NO. 411-19

SHEET TITLE
HVAC SCHEDULES

PROJECT NO. 16015.02
DATE 09/17/18
DRAWN BY: C.P.A./M.W.D.
CHECKED BY: B.L.S.
SHEET NO. M-3.2

CHAPMAN GRIFFIN LANIER SUSSENBACH ARCHITECTS
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