

BECKER
MORGAN
GROUP

ARCHITECTURE
P L A N N I N G

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

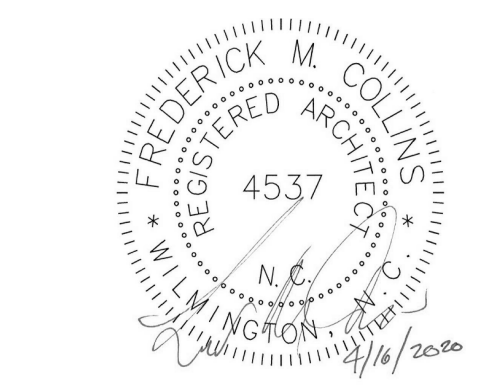
Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

Rittenhouse Station
250 South Main Street, Suite 109
Newark, DE 19711
302.369.3700
www.beckermorgan.com

ISSUED
FOR BIDDING

NOT FOR CONSTRUCTION

ISSUED: 04/16/2020



PROJECT TITLE

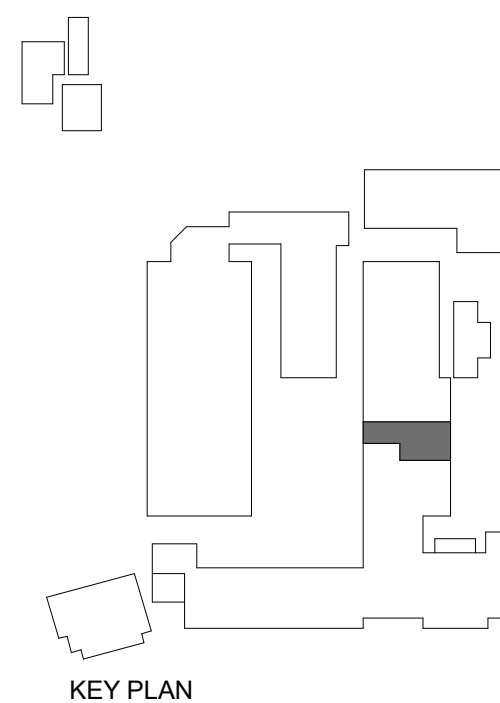
WEST
BRUNSWICK
HIGH SCHOOL
CLASSROOM
222
RENOVATION

550 WHITEVILLE ROAD N.W.
SHALLOTTE, NC 28470

DSP # : 100
DPI SCHOOL # : 116

SHEET TITLE

CAMPUS LIFE SAFETY PLAN AND WORK SCOPE



ISSUE BLOCK		
	04.16.20	ISSUED FOR BIDDING
	03.20.20	100% REVIEW SUBMISSION
	10.14.19	NCDDP DO SUBMISSION
	7.30.19	SD PROGRESS DRAWINGS
	7.11.19	NCDDP SD SUBMISSION
Mark	Date	Description

PROJECT NO:	2019083
DATE:	04.16.20

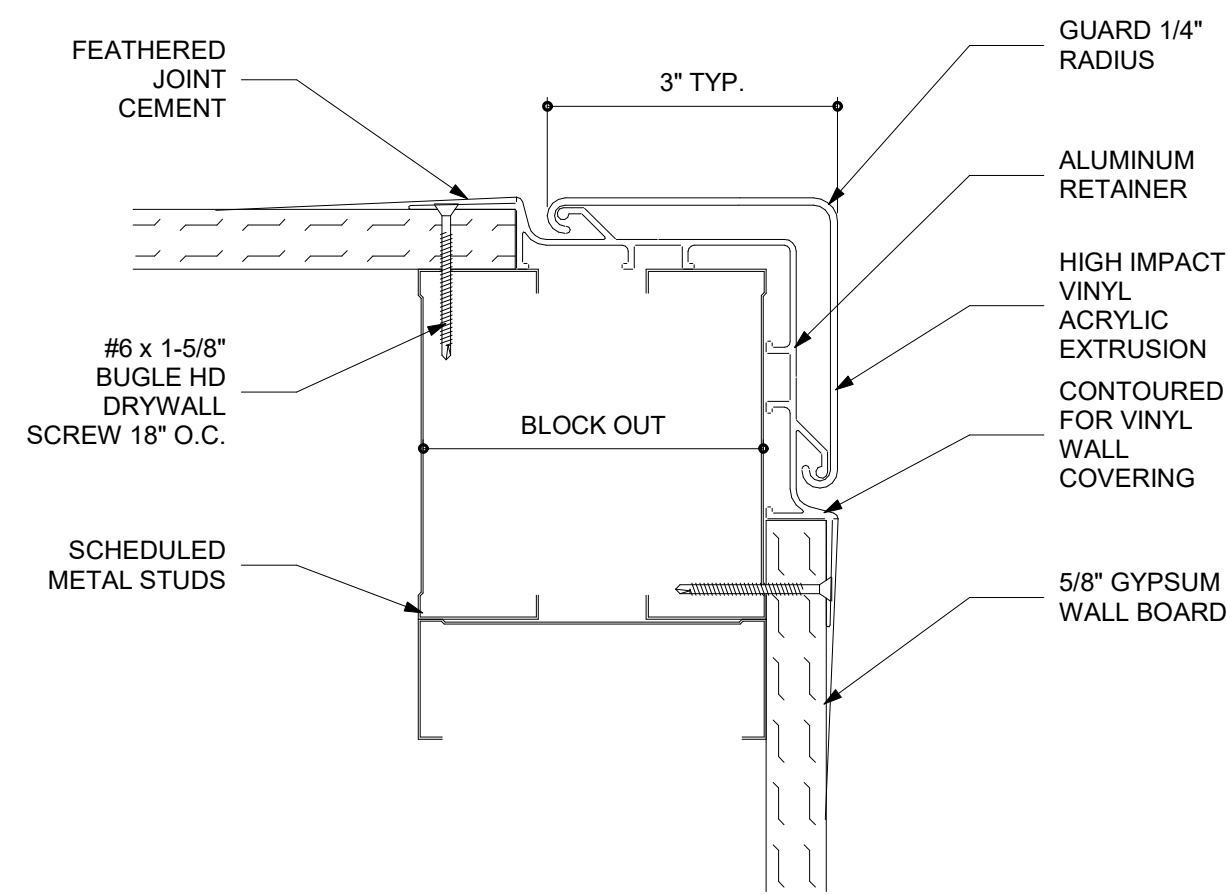
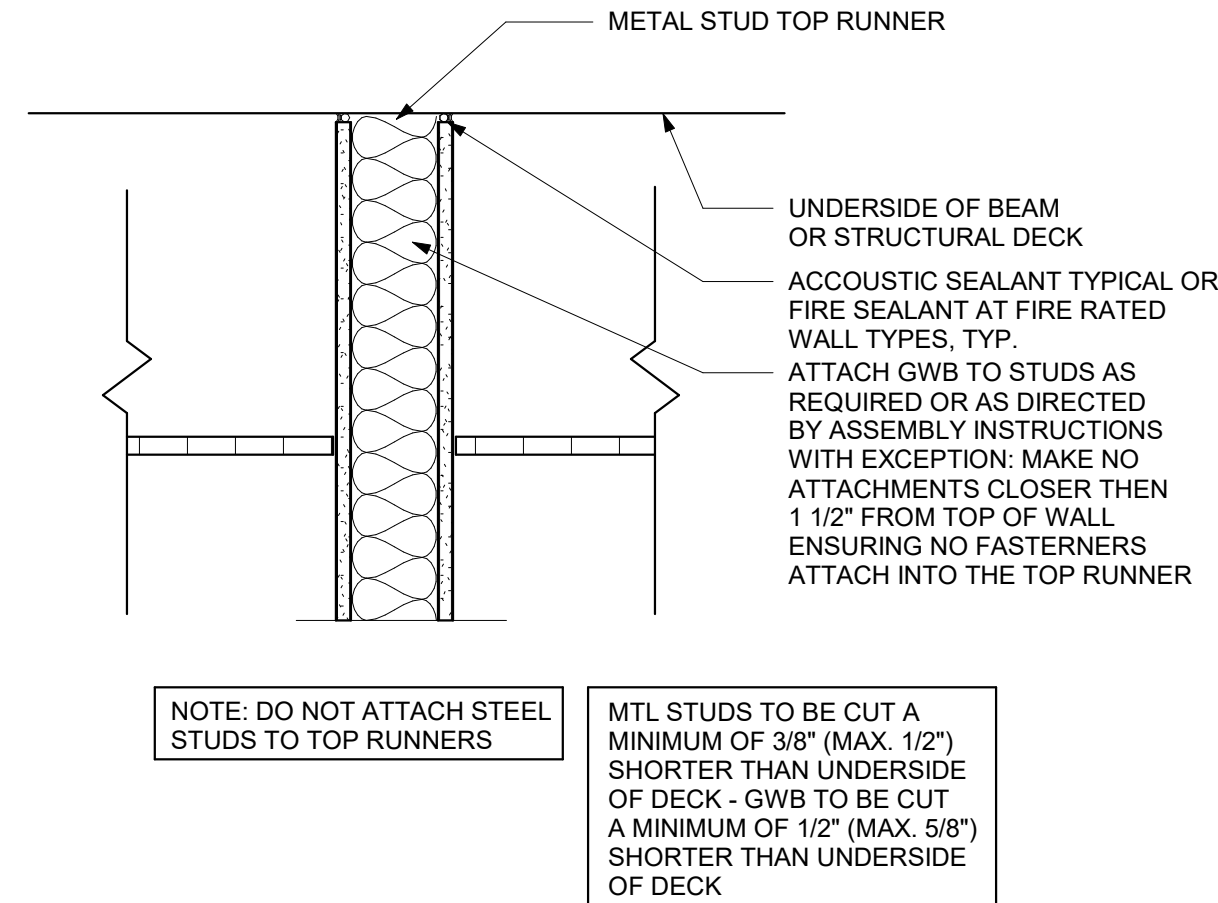
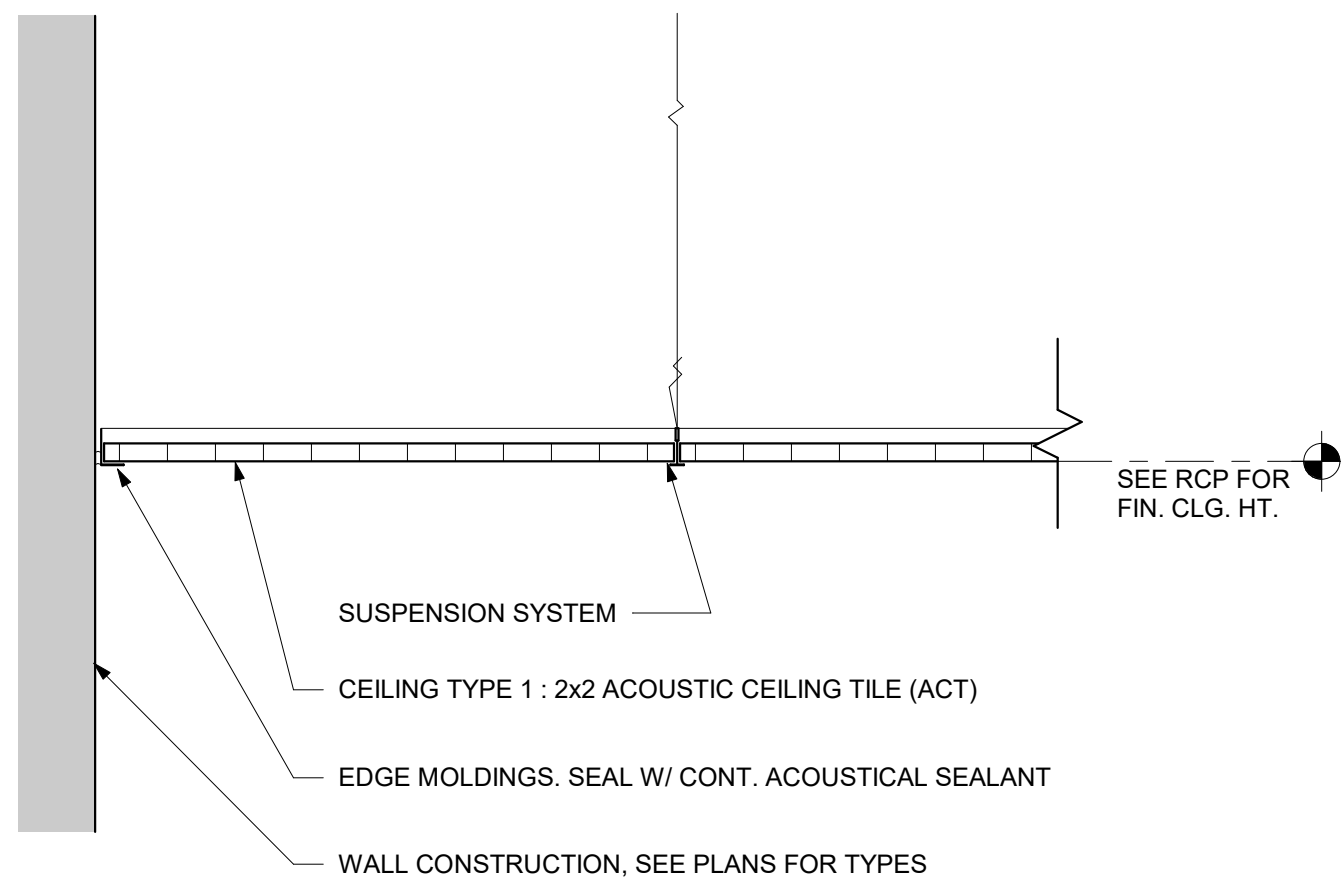
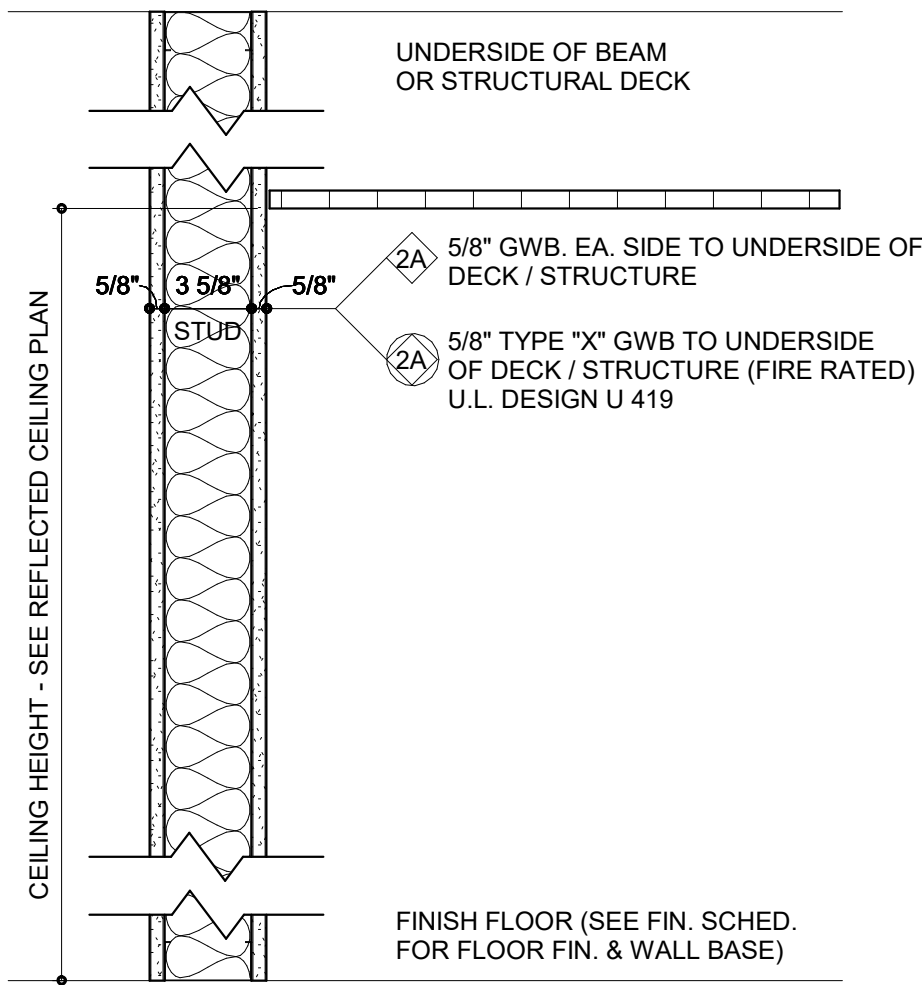
SCALE:	As indicated
DRAWN BY: LJR	PROJ MGR: R

G201



4/16/2020 6:57:59 C:\Users\Ireze\Documents\201908304 WBHS RENO 222_Irezeek.rvt

1. SEE CODE SHEETS, G100 AND G200 SERIES, FOR REQUIRED FIRE RATINGS OF ALL WALL ASSEMBLIES. MULTIPLE LAYERS OF GWB MAY BE REQUIRED AT RATED PARTITIONS.
2. PROVIDE SOUND-ATTENUATING FIRE BATT INSULATION IN METAL STUD PARTITIONS, U.O.N.
3. PROVIDE MOLD AND MOISTURE RESISTANT GWB AT ALL METAL STUD FRAMED PARTITIONS AT WET LOCATIONS, INCLUDING TOILET ROOMS, AND AT SINKS AND LAVATORIES. EXTEND TO END OF CASEWORK RUN, INCLUDING SIDEWALLS WHERE ADJACENT TO SINKS. SEE SPECIFICATIONS.
4. BRACE METAL STUD PARTITIONS, WHERE REQUIRED. SEE SPECIFICATIONS AND STRUCTURAL DRAWINGS.
5. SEE STRUCTURAL FOR BRACING OF PART-HIEght MASONRY PARTITIONS, INCLUDING PARTITION WITH GWB AND METAL STUD CONTINUING ABOVE.
6. SEE SPECIFICATIONS AND STRUCTURAL FOR MASONRY TIES IN MULTIPLE WYTHE MASONRY WALLS AND PARTITIONS. CORRUGATED TIES ARE NOT ACCEPTABLE, U.O.N.
7. PROVIDE BULLSEYE MASONRY UNITS AT LOCATIONS NOTED IN SPECIFICATIONS.
8. FILL ALL CORES IN MASONRY UNITS AT THE FOLLOWING LOCATIONS: ALL MECHANICAL ROOMS AND MEZZANINES. SEE SPECIFICATIONS.
9. PROVIDE ACoustICAL SEALANT AT PARTITIONS IN THE FOLLOWING LOCATIONS: ALL MECHANICAL ROOMS AND MEZZANINES. SEE SPECIFICATIONS.
10. PROVIDE CONTROL JOINTS IN MASONRY WALLS AS INDICATED ON PLANS, ELEVATIONS, AND DETAILS, AND AS SPECIFIED, WHERE JOINTS ARE NOT SHOWN, PROVIDE ACCORDING TO B.I.A. AND N.C.M.A. TEK NOTES.



2A 2A

1 CEILING TYPE 1 - ACT

SCALE : 1 1/2" = 1'-0"

2 TYPICAL STUD WALL DETAIL

SCALE : 1 1/2" = 1' 0"

CORNER GUARD DETAIL

SCALE : 6" = 1' 0"

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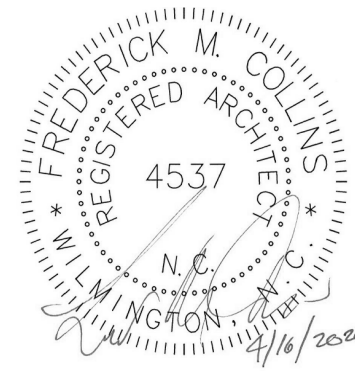
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D: 04/16/2020



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WEST
BRUNSWICK
HIGH SCHOOL
CLASSROOM
222
RENOVATION

550 WHITEVILLE ROAD N.W.
SHALLOTTE, NC 28470

DSP #: 100
DPI SCHOOL #: 1167

SHEET TITLE

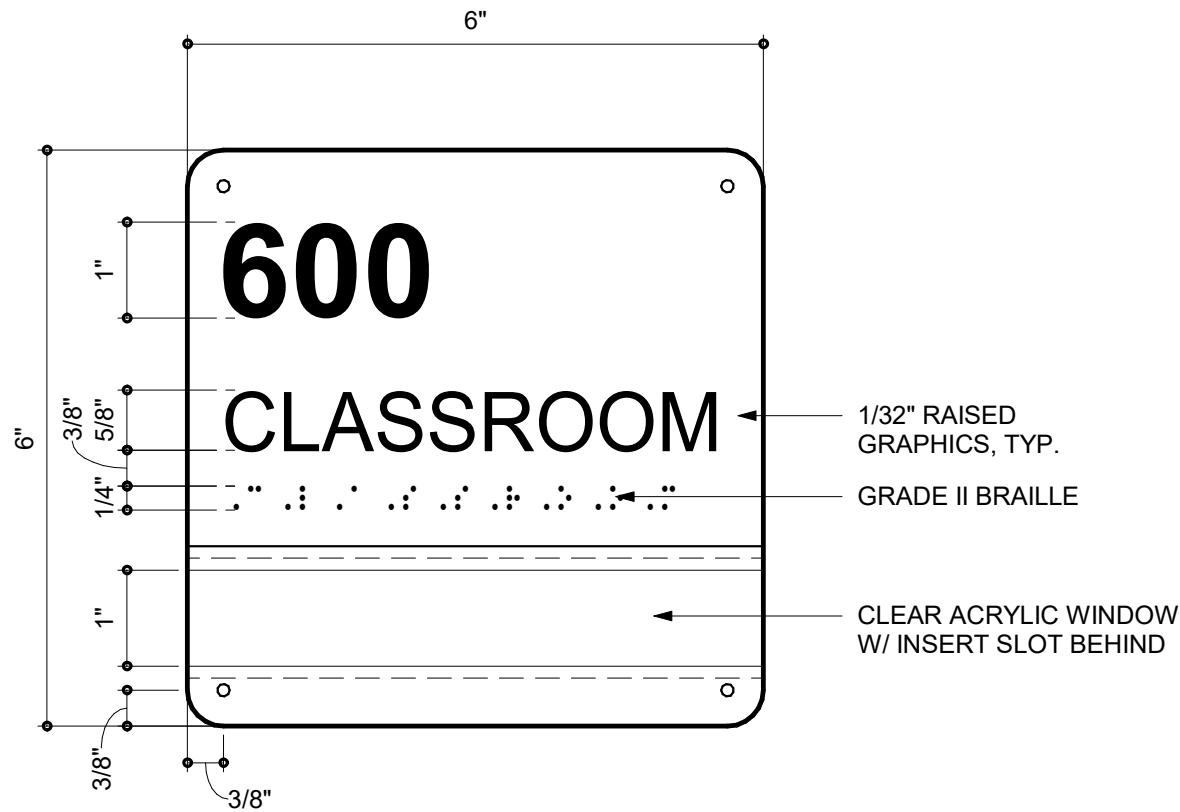
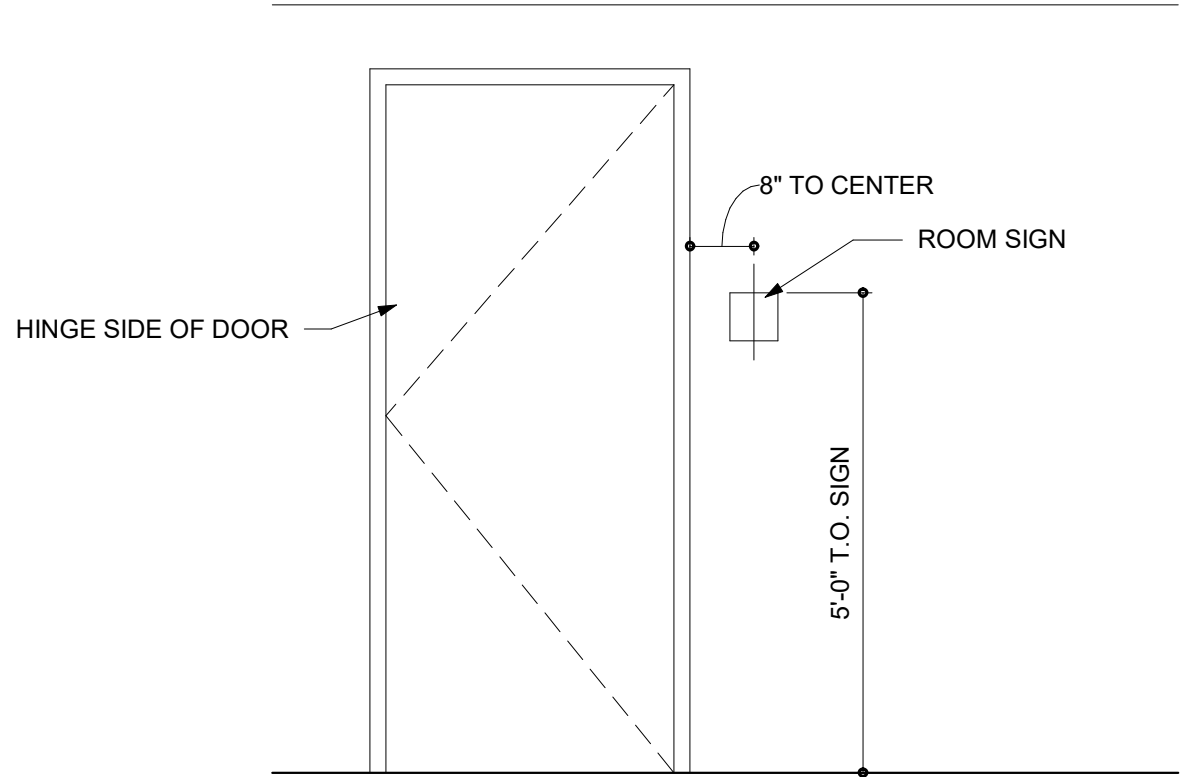
CONSTRUCTION TYPES AND DETAILS

[illegible]

PROJECT NO:	2019083.04
DATE:	04.16.2020
SCALE:	As indicated
DRAWN BY: KMS	PROJ MGR: RMC

A001

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1 TYPICAL SIGN MOUNTING HEIGHT

SCALE : 3" = 1' 0"

2 SIGN TYPE A

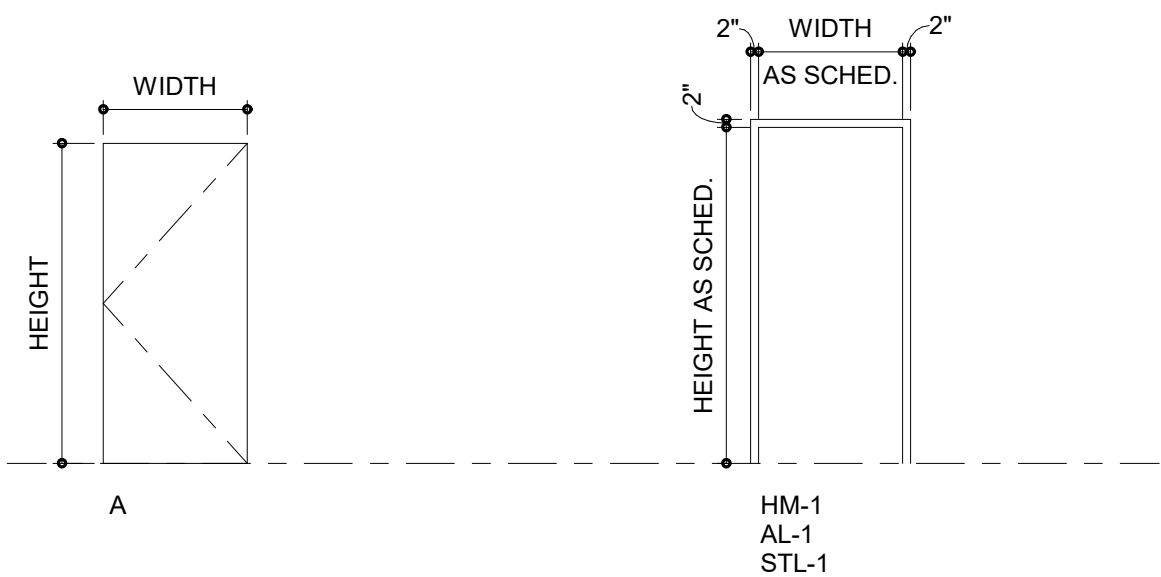
SCALE : 6" = 1' 0"

SIGNAGE SCHEDULE				
ROOM NUMBER	ROOM NAME	DOOR NUMBER	SIGN TYPE	COPY ON SIGN
222A	CLASSROOM	222A/1	A	222A CLASSROOM
222B	CLASSROOM	222B/1	A	222B CLASSROOM

FINISH SCHEDULE															
#	ROOM NAME	FLOOR		BASE MAT	WALL								CEILING		COMMENTS
		MAT	PAT		NORTH		EAST		SOUTH		WEST				
					MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	
CLASSROOM RENOVATION															
FIRST FLOOR															
222	SUITE	VCT		R	EXG CMU	PT	-	-	EXG CMU	PT	EXG CMU	PT	EXG/ACT-1	PT / -	
222A	CLASSROOM	VCT		R	GWB	PT	GWB	PT	EXG CMU	PT	EXG CMU / GWB	PT	ACT-1	-	
222B	CLASSROOM	VCT		R	EXG CMU	PT	EXG CMU	PT	EXG CMU	PT	GWB	PT	ACT-1	-	
265	EX. OFFICE	-		-	-	-	-	-	-	-	-	-	-	-	
266	EX. STORAGE	-		-	-	-	-	-	-	-	-	-	-	-	

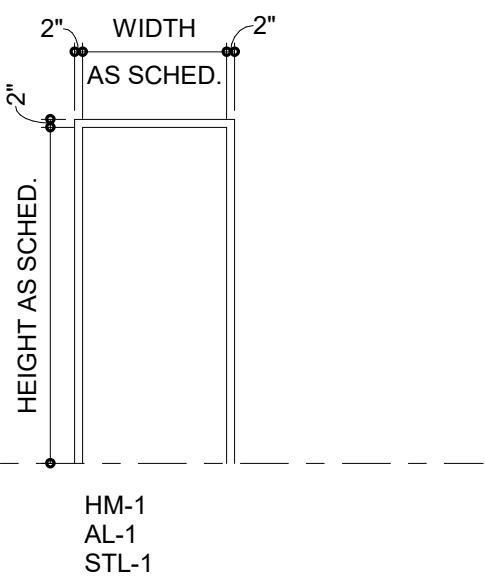
FINISH SCHEDULE LEGEND	
KEY NAME	DESCRIPTION
FLOOR	
-	NOT APPLICABLE / EXISTING TO REMAIN
VCT	VINYL COMPOSITION TILE
BASE	
-	NOT APPLICABLE / EXISTING TO REMAIN
R	RESILIENT WALL BASE
WALL	
-	NOT APPLICABLE / EXISTING TO REMAIN
CMU	CONCRETE MASONRY UNIT
EXPO	EXPOSED STRUCTURE
GWB	GYPSON WALL BOARD
PT	PAINT
CEILING	
-	NOT APPLICABLE / EXISTING TO REMAIN
ACT-1	2x2 ACOUSTICAL CEILING TILE
EXPO	EXPOSED STRUCTURE, FIRE PROTECTOIN, PLUMBING, MECHANICAL, ELECTRICAL, TECHNOLOGY
GWB	GYPSON BOARD CEILING
PT	PAINT
ORIENTATION	
-	ON PLANS NORTH WALL IS UP, EAST IS RIGHT, SOUTH IS DOWN, WEST IS LEFT
GENERAL NOTES	
1	WALLS AND CEILINGS MAY CONTAIN MORE THAN ONE MATERIAL OR FINISH AS INDICATED. COORDINATE WITH CONSTRUCTION TYPE AND FINISH SIMILAR TO ADJACENT MATERIALS
2	SEE REFLECTED CEILING PLANS & CEILING NOTES FOR CEILING HEIGHTS, MATERIAL EXTENTS, LOCATIONS AND HEIGHTS OF BULKHEADS, SOFFITS, ETC.
3	PLAN WALL TYPES TAKE PRECEDENCE OVER SCHEDULED WALL FINISHES. PROVIDE APPROPRIATE WALL FINISH TO CORRESPOND TO WALL TYPES.
4	MOLD AND MOISTURE RESISTANT GYPSON BOARD SHALL BE USED AT ALL KITCHEN AREAS, TOILET ROOMS AND CUSTODIAN SERVICE CLOSETS SCHEDULED TO HAVE GYPSON BOARD FINISHES
5	WALL AND CEILING FINISHES SHALL INCLUDE ALL PROJECTIONS, BEAM ENCLOSURES, RECESSES, BULKHEADS, MATERIAL CHANGES, OR OTHER ENCLOSURES. REFER TO REFLECTED CEILING PLANS
6	PROVIDE SEALANT/CALK AT INTERSECTIONS OF DISSIMILAR MATERIALS AND AS RECOMMENDED BY MANUFACTURERS' GUIDELINES.
7	ALL NEW PARTITIONS AND WALLS SHALL BE PAINTED. PROVIDE PRICING TO REPAINT EXISTING WALLS

DOOR SCHEDULE																	
MARK	DOOR				FRAME										FIRE RATING	HDWE SET	COMMENTS
	WIDTH	HT	THICK	MATL	TYPE	FIN	GLAZ	UNDER CUT	MATL	TYPE	FIN	HEAD	JAMB	SILL			
CLASSROOM RENOVATION																	
FIRST FLOOR																	
222A/1	3' - 0"	7' - 0"	1 3/4"	SCWD	A	ST	-	0"	HM	HM-1	PT	1/A201	2/A201	-			
222B/1	3' - 0"	7' - 0"	1 3/4"	SCWD	A	ST	-	0"	HM	HM-1	PT	1/A201	2/A201	-			



1 TYPICAL INTERIOR DOOR HEAD

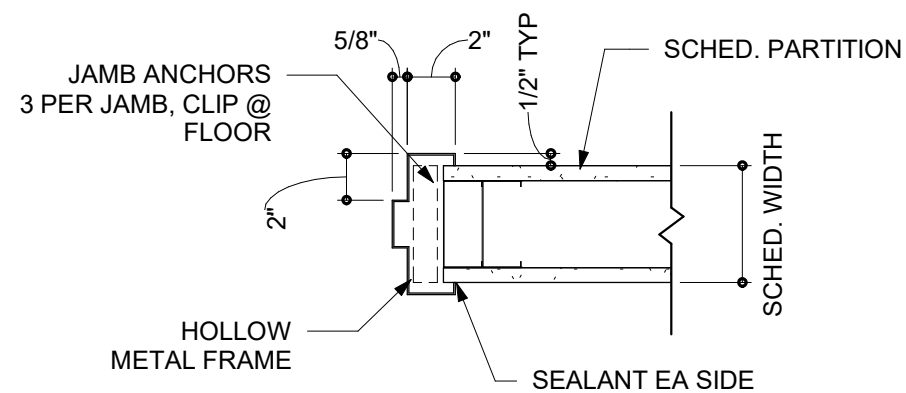
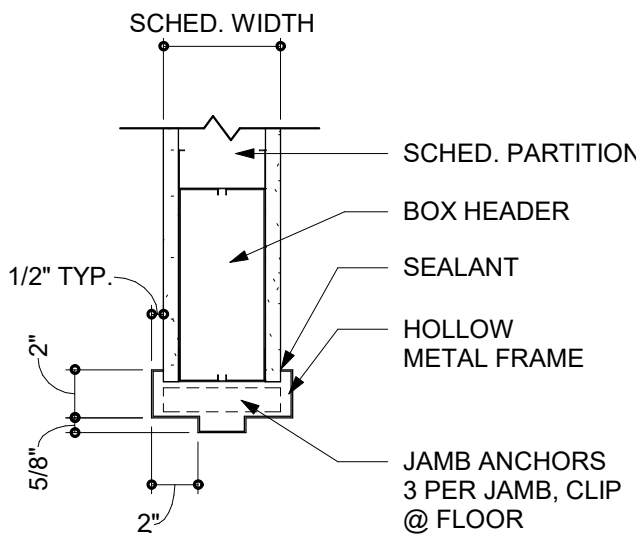
SCALE: 1 1/2" = 1'-0"



2 TYPICAL INTERIOR DOOR JAMB

SCALE: 1 1/2" = 1'-0"

DOOR SCHEDULE LEGEND	
-	NONE (IE, NOT APPLICABLE OR FACTORY FINISHED)
ALUM, AL	ALUMINUM
CW	CURTAINWALL
FG	FIRE PROTECTION/FIRE-RESISTANCE RATED GLAZING
HM	HOLLOW METAL
IG	INSULATED GLAZING
LAM	LAMINATED GLAZING
PT	PAINTED
SCWD	SOLID CORE WOOD DOOR
SF	STOREFRONT
SST	STAINLESS STEEL
ST	STAINED
STL	STEEL
TEMP	TEMPERED GLAZING



ARCHITECTURE
PLANNING

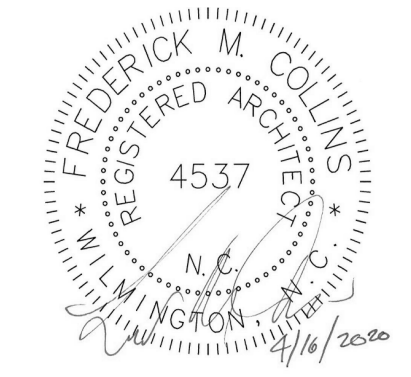
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SCHEDULES AND
DETAILS

ISSUE BLOCK

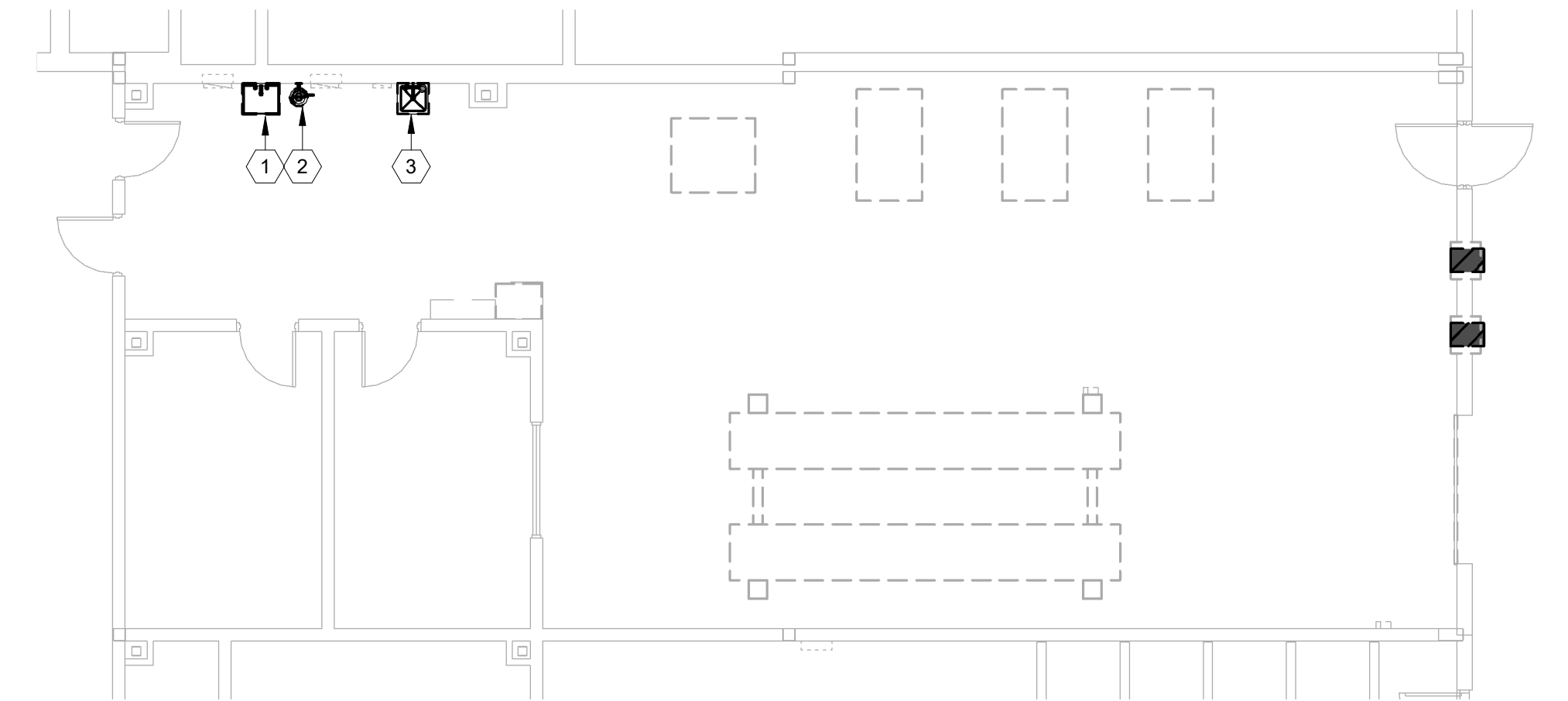
Mark	Date	Description
04.16.20	ISSUED FOR BIDDING	
03.22.20	100% REVIEW SUBMISSION	
10.14.19	NCPI DO SUBMISSION	
7.30.19	SD PROGRESS DRAWINGS	
7.11.19	NCPI SD SUBMISSION	

PROJECT NO: 2019083.04
DATE: 04.16.2020
SCALE: As indicated
DRAWN BY: LJR PROJ MGR: RMC

A201

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KEYNOTES	
Keynote Number	Keynote Description
1	PC SHALL REMOVE EXISTING SERVICE SINK AND CAP WASTE AND WATER PIPING INSIDE WALL. COORDINATE WITH GC TO PATCH WALL TO MATCH EXISTING.
2	PC SHALL REMOVE EXISTING WALL MOUNTED EYE WASH AND CAP ASSOCIATED WASTE AND WATER PIPING INSIDE WALL. COORDINATE WITH GC TO PATCH WALL TO MATCH EXISTING.
3	EXISTING BASIN AND WALL MOUNTED SERVICE SINK FAUCET TO REMAIN. RECEIVES CONDENSATE FROM HVAC UNIT ON MEZZANINE ABOVE.



1 CLASSROOM 222 PLUMBING DEMOLITION
PD100 1/8" = 1'-0"



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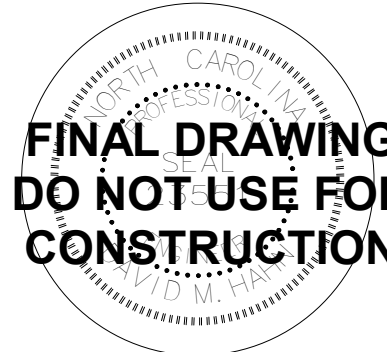
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CBHF
Engineers, PLLC

2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfenrngineers.com
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BRUNSWICK
HIGH SCHOOL
CLASSROOM
222
RENOVATION
550 WHITEVILLE ROAD N.W.
SHALLOTTE, NC 28470

DSP # : 100
DPI SCHOOL # : 1167

SHEET TITLE

LEVEL 1 OVERALL
UNDERFLOOR
PLUMBING
DEMOLITION PLAN

ISSUE BLOCK		
	04.16.20	ISSUED FOR BIDDING
	03.20.20	60% CD PROGRESS DRAWING
	10.14.19	NC/DPI DD SUBMISSION
	07.30.19	SD PROGRESS DRAWINGS
	07.11.19	NC/DPI SD SUBMISSION
Mark	Date	Description

PROJECT NO:		2019082.00
DATE:		10.14.2019
SCALE:		1/8" = 1'-0"
DRAWN BY/Author		PROJ MG/Checker

PD100
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GENERAL MECHANICAL SYMBOLS	
	REVISION NUMBER - SHOWN ON PLANS
	POINT WHERE NEW CONNECTS TO EXISTING
	NUMBER OF DETAIL ON SHEET
	NUMBER OF SHEET WHERE DETAIL APPEARS
	KEYNOTE
	CONTINUATION SYMBOL
	ROOM NAME AND NUMBER
	ITEM TO BE DEMOLISHED
	AREA NOT IN CONTRACT

HVAC SYMBOLS	
	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
	OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
	ROUND DUCT SIZE TAG (DIAMETER)
	EXISTING DUCT TAG
	DUCT BEING DEMOLISHED
	SUPPLY AIR
	SUPPLY AIR (100% OUTSIDE AIR)
	OUTSIDE AIR
	RETURN AIR
	TRANSFER AIR
	EXHAUST AIR
	RELIEF AIR
	GREASE EXHAUST AIR
	SMOKE EXHAUST AIR
	EXHAUST GAS FLUE
	COMBUSTION AIR
	RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
	ROUND SUPPLY/OUTSIDE AIR DUCT RISE
	RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
	ROUND RETURN/TRANSFER AIR DUCT RISE
	RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
	ROUND EXHAUST/RELIEF AIR DUCT RISE
	SUPPLY OUTLET
	RETURN/EXHAUST INLET
	SECTORIZING BAFFLE OR BLANKOFF PANEL TYPE (SEE SCHEDULE)
	GRILLES, REGISTERS, AND DIFFUSERS TAG
	CFM
	LINEAR DIFFUSER
	LINEAR DIFFUSER TAG
	CFM
	MECHANICAL EQUIPMENT
	MECHANICAL EQUIPMENT TAG
	EXISTING MECHANICAL EQUIPMENT
	EXISTING MECHANICAL EQUIPMENT TAG (TYPICAL FOR ALL EXISTING TAGS)
	MECHANICAL EQUIPMENT FOR REFERENCE
	MECHANICAL EQUIPMENT TAG (REFER TO OTHER DISCIPLINE FOR ADDITIONAL INFORMATION)
	CARBON DIOXIDE SENSOR
	DUCT SMOKE DETECTOR
	HUMIDITY SENSOR
	E-STOP
	TEMPERATURE SENSOR
	FIRE DAMPER
	SMOKE DAMPER
	MOTORIZED DAMPER
	MANUAL BALANCING DAMPER
	BACKDRAFT DAMPER
	COMBINATION FIRE/SMOKE DAMPER

PIPING SYMBOLS	
	PIPE SIZE TAG (DIAMETER)
	ABOVE GROUND PIPING
	PIPE SLOPE TAG
	BELOW GROUND PIPING
	PIPE INVERT ELEVATION TAG
	EXISTING PIPE TAG
	PIPING BEING DEMOLISHED
	CONDENSATE DRAINAGE
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	NATURAL GAS
	PROPANE GAS
	REFRIGERANT-LIQUID
	REFRIGERANT-SUCTION
	REFRIGERANT-HOT GAS
	PIPE DROP
	PIPE RISE
	PIPE TEE
	CAP
	PLUG
	REDUCING 45 DEGREE TEE
	45 DEGREE TEE
	DOMESTIC WATER METER
	FLOW MEASURING AND BALANCING DEVICE
	BALL VALVE
	CHECK VALVE
	THREE WAY VALVE
	MOTORIZED CONTROL VALVE
	THREE WAY MOTORIZED CONTROL VALVE
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
	BUTTERFLY VALVE

EQUIPMENT ABBREVIATIONS			
AC	AIR CONDITIONING UNIT	FP	FIRE PUMP
ACC	AIR COOLED CONDENSER	GI	GREASE INTERCEPTOR
ACCU	AIR COOLING CONDENSING UNIT	GRV	GRAVITY ROOF VENTILATOR
AFMS	AIR FLOW MEASURING STATION	H	HUMIDIFIER
AHU	AIR HANDLING UNIT	HWP	HEATING WATER PUMP
AS	AIR SEPARATOR	HK	HEAT EXCHANGER
B	BOILER	HPU	HEAT PUMP UNIT
CF	CABINET FAN	HRU	HEAT RECOVERY UNIT
CF	CHEMICAL FEEDER	ILC	INLINE CENTRIFUGAL
CFP	CHEMICAL FEEDER PUMP	PF	PROPELLER FAN
CH	CHILLER	PV	POWER VENTILATOR
CRU	CONDENSATE RETURN UNIT	PWF	POWER WALL FAN
CT	COOLING TOWER	RE	RETURN/EXHAUST FAN
CUH	CABINET UNIT HEATER	RTU	ROOFTOP UNIT
CHW	CONDENSER WATER PUMP	SA	SHOCK ABSORBER
CHWP	CHILLED WATER PUMP	SAT	SOUND ATTENUATOR
DAH	DUCTLESS AIR HANDLER	SEP	SEWAGE EJECTOR PUMP
DHP	DUCTLESS HEAT PUMP	SF	SUPPLY FAN
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EUH	ELECTRIC UNIT HEATER	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	US	UTILITY SET
ET	EXPANSION TANK	UV	UNIT VENTILATOR
EWI	ELECTRIC WATER HEATER	VAV	VARIABLE AIR VOLUME
FCU	FAN COIL UNIT	WH	WATER HEATER

RATED WALL LEGEND	
	ONE HOUR RATED EXTERIOR WALL
	ONE HOUR RATED INTERIOR WALL

	FOOTING
	FIN TUBE RADIATION
	FUTURE
	GAGE/GAUGE
	GALLON
	GALVANIZED
	GENERAL CONTRACTOR
	GENERATOR
	GENERAL
	GALLONS PER MINUTE
	GRADE
	GREASE WASTE
	HOSE BIB
	HEAD
	HORIZONTAL
	HORSE POWER
	HIGH PRESSURE
	HEATING
	HEATER
	HOT WATER
	HYDRANT
	INCH
	INSULATION
	INTERIOR
	INVERT
	INCHES WATER GAUGE
	JOIST SPACE
	JOINT
	LABORATORY
	LB
	POUNDS PER HOUR
	LEAVING AIR TEMPERATURE
	LINEAL FOOT
	LOCATION
	LOW PRESSURE
	LIQUEFIED PETROLEUM GAS
	LIQUID REFRIGERANT
	LAWN SPRINKLER
	LOUVER
	LEAVING WATER TEMPERATURE
	MIXED AIR
	MANUAL
	MATERIAL
	MANUAL AIR VENT
	MAXIMUM
	MOTORIZED BYPASS DAMPER
	ONE THOUSAND BTU PER HOUR
	ONE THOUSAND CUBIC FEET
	MAKE-UP COLD WATER
	MOTORIZED DAMPER
	MECHANICAL
	MANUFACTURER
	MANHOLE
	MINIMUM
	MISCELLANEOUS
	MOTOR
	MAKE-UP/AIR
	NECK
	NOISE CRITERIA
	NORMALLY CLOSED
	NOT IN CONTRACT
	NUMBER
	NORMALLY OPEN
	NOMINAL
	NOT TO SCALE
	OXYGEN
	OUTSIDE AIR
	ON CENTER
	OVERFLOW
	OPENING
	OVERFLOW ROOF DRAIN
	PRESSURE DROP
	POST INDICATOR VALVE
	PLUMBING
	PAIR
	PRELIMINARY
	PRESSURE
	PRIMARY
	PRESSURE REDUCING VALVE
	POUNDS PER SQUARE INCH
	POUNDS PER SQUARE INCH GAUGE
	POTABLE WATER
	POWER
	DUCT RISER
	RETURN AIR
	RADIANT CEILING PANEL
	ROOF DRAIN
	RECESSED
	REDUCED
	REFRIGERATION
	RELATIVE HUMIDITY
	REQUIRED
	REVERSE
	RELIEF AIR
	ROOM
	REVOLUTIONS PER MINUTE
	RAIN WATER
	SQUARE FOOT
	SUPPLY AIR
	SANITARY
	SCHEDULE
	SECTION
	SQUARE FOOT
	SMOKE DAMPER
	SHEET
	SIMILAR
	SLEEVE
	SURFACE MOUNT
	STANDPIPE
	STATIC PRESSURE
	SPECIFICATION
	STATIC PRESSURE STATION
	SQUARE
	SUCTION REFRIGERANT
	SOIL SUBDRAIN
	STAINLESS STEEL
	STANDARD
	STEAM
	STRUCTURAL
	SUCTION
	SUSPENDED
	THERMOSTAT
	TEMPERATURE CONTROL PANEL
	TEMPERATURE DROP
	TRENCH DRAIN
	TOTALLY ENCLOSED FAN COOLED
	TEMPERATURE
	TYPICAL
	UNDER FLOOR DUCT
	UNDERGROUND
	VACUUM
	VENT
	VARIABLE AIR VOLUME
	VELOCITY
	VENTILATION
	VERTICAL
	VOLUME
	VENT THROUGH ROOF
	WASTE
	WET BULB
	WALL CLEAN OUT
	WALL HYDRANT

ABBREVIATIONS			
&	AND	ID	INDIRECT
Ø	ROUND	IN	INCH
A	AIR	INL	INLET
AB	ABOVE BASE	INSUL	INSULATION
ABV	ABOVE	INT	INTERIOR
AC	AIR CONDITIONING	INV	INVERT
ACOUS	ACOUSTICAL	INWG	INCHES WATER GAUGE
AD	AREA DRAIN	JST	JOIST SPACE
ADD	ADDENDUM	JT	JOINT
ADL	ADDITIONAL	LAB	LABORATORY
AF	ABOVE FINISHED FLOOR	LB	LB
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	LBHR	POUNDS PER HOUR
AG	ABOVE GROUND	LAT	LEAVING AIR TEMPERATURE
ALT	ALTERNATE	LINEAL	LINEAL FOOT
ALUM	ALUMINUM	LOC	LOCATION
AP	ACCESS PANEL	LP	LOW PRESSURE
APPROX	APPROXIMATE	LPG	LIQUEFIED PETROLEUM GAS
ARCH	ARCHITECT/ARCHITECTURAL	LR	LIQUID REFRIGERANT
AV	ACID RESISTANT VENT	LS	LAWN SPRINKLER
AW	ACID RESISTANT WASTE	L	LOUVER
AUTO	AUTOMATIC	LWT	LEAVING WATER TEMPERATURE
BFF	BELOW FINISHED FLOOR	MIA	MIXED AIR
BLDG	BUILDING	MAN	MANUAL
BLW	BELOW	MATL	MATERIAL
BM	BEAM	MAV	MANUAL AIR VENT
BO	BY OTHER	MAX	MAXIMUM
BOT	BOTTOM	MBD	MOTORIZED BYPASS DAMPER
BSMT	BASEMENT	MBH	ONE THOUSAND BTU PER HOUR
BTU	BRITISH THERMAL UNITS	MC	ONE THOUSAND CUBIC FEET
BTUH	BRITISH THERMAL UNITS PER HOUR	MCW	MAKE-UP COLD WATER
BTWN	BETWEEN	MD	MOTORIZED DAMPER
CAP	CAPACITY	MECH	MECHANICAL
CB	CATCH BASIN	MFR	MANUFACTURER
CCW	COUNTER CLOCKWISE	MANHOLE	MANHOLE
CF	CLOCKWISE	MIN	MINIMUM
CFCV	CONSTANT FLOW CONTROL VALVE	MISC	MISCELLANEOUS
CFM	CUBIC FEET PER MINUTE	MTR	MOTOR
CHW	CIRCULATING HOT WATER	MUA/A	MAKE-UP/AIR
CI	CAST IRON	N	NECK
CLG	CEILING	NC	NOISE CRITERIA
CLG	COOLING	NC	NORMALLY CLOSED
CO	CLEAN OUT	NIC	NOT IN CONTRACT
COL	COLUMN	NO	NUMBER
COMB	COMBINATION	NO	NORMALLY OPEN
CONC	CONCRETE	NOM	NOMINAL
COND	CONDENSATE	NTS	NOT TO SCALE
CONF	CONFERENCE	O	OXYGEN
CONN	CONNECT	O/A	OUTSIDE AIR
CONST	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUE/CONTINUATION	OF	OVERFLOW
CONTR	CONTRACT/CONTRACTOR	OPNG	OPENING
COORD	COORDINATE	ORD	OVERFLOW ROOF DRAIN
CTR	CENTER	PD	PRESSURE DROP
CUF	CUBIC FEET	PV	POST INDICATOR VALVE
CV	CHECK VALVE	PLBG	PLUMBING
CW	COLD WATER	PR	PAIR
CW	CLOCKWISE	PREL	PRELIMINARY
D	DEGREE	PRESS	PRESSURE
DB	DRY BULB	PRIM	PRIMARY
DET	DETAIL	PRV	PRESSURE REDUCING VALVE
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DISCH	DISCHARGE	PSIG	POUNDS PER SQUARE INCH GAUGE
DIV	DIVISION	PW	POTABLE WATER
DI	DIAGONAL	PWR	POWER
DMPR	DAMPER	R	DUCT RISER
DN	DOWN	R/A	RETURN AIR
DWG	DRAWING	RAD	RADIANT CEILING PANEL
DW	DISTILLED WATER	RD	ROOF DRAIN
EACH	EACH	REC	RECESSED
EAT	ENTERING AIR TEMPERATURE	RED	REDUCED
EL	ELBOW	REFR	REFRIGERATION
ELEC	ELECTRICAL	RH	RELATIVE HUMIDITY
ELEV	ELEVATION	REQD	REQUIRED
EP	EXPLOSION PROOF	REV	REVERSE
EQ	EQUAL	R/a	RELIEF AIR
EQUIP	EQUIPMENT	RM	ROOM
EWC	ELECTRIC WATER COOLER	RPM	REVOLUTIONS PER MINUTE
EWT	ENTERING WATER TEMPERATURE	RW	RAIN WATER
EA	EXHAUST AIR	SF	SQUARE FOOT
EAH	EXHAUST HOOD	S/A	SUPPLY AIR
EXIST	EXISTING	SAN	SANITARY
EXP	EXPANSION	SCHD	SCHEDULE
EXPJT	EXPANSION JOINT	SECT	SECTION
EXT	EXTERIOR	SF	SQUARE FOOT
F	DEGREES FAHRENHEIT	SD	SMOKE DAMPER
FCO	FLOOR CLEAN OUT	SHT	SHEET
FD	FLOOR DRAIN	SIM	SIMILAR
FD	FIRE DAMPER	SLV	SLEEVE
FDV	FIRE DEPARTMENT VALVE	SM	SURFACE MOUNT
FHC	FIRE HOSE CABINET	SP	STANDPIPE
FL	FLOOR	SP	STATIC PRESSURE
FLEX	FLEXIBLE	SPEC	SPECIFICATION
FLG	FLANGE	SPS	STATIC PRESSURE STATION
FO	FUEL OIL	SQ	SQUARE
FOV	FUEL OIL VENT	SR	SUCTION REFRIGERANT
FOR	FUEL OIL RETURN	SSD	SOIL SUBDRAIN
FOS	FUEL OIL SUPPLY	SS	STAINLESS STEEL
FPM	FEET PER MINUTE	STD	STANDARD
FRP	FIBERGLASS REINFORCED PIPE	STM	STEAM
FS	FULL SIZE	STRUCT	STRUCTURAL
FS	FLOOR SINK	SUCT	SUCTION
FT	FOOT/FEET	SUSP	SUSPENDED
FTG	FOOTING	T	THERMOSTAT
FTR	FIN TUBE RADIATION	TC	TEMPERATURE CONTROL PANEL
FUT	FUTURE	TD	TEMPERATURE DROP
GA	GAGE/GAUGE	TDR	TRENCH DRAIN
GAL	GALLON	TEFC	TOTALLY ENCLOSED FAN COOLED
GALV	GALVANIZED	TEMP	TEMPERATURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GEN	GENERATOR	UFD	UNDER FLOOR DUCT
GENL	GENERAL	UG	UNDERGROUND
GPH	GALLONS PER MINUTE	VAC	VACUUM
GR	GRADE	V	VENT
GW	GREASE WASTE	VAV	VARIABLE AIR VOLUME
HB	HOSE BIB	VEL	VELOCITY
HD	HEAD	VENT	VENTILATION
HORZ	HORIZONTAL	VERT	VERTICAL
HP	HORSE POWER	VOL	VOLUME
HP	HIGH PRESSURE	VTR	VENT THROUGH ROOF
HTG	HEATING	W	WASTE
HTR	HEATER	WB	WET BULB
HW	HOT WATER	WCO	WALL CLEAN OUT
HYD	HYDRANT	WH	WALL HYDRANT

MECHANICAL SUMMARY	
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
CLIMATE ZONE	3A - WARM/HUMID
WINTER DRY BULB:	23%DF
SUMMER DRY BULB	95%DF
INTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	70%DF
SUMMER DRY BULB	75%DF
RELATIVE HUMIDITY	60% RH
HEATING LOAD:	85.8 MBH
COOLING LOAD:	91.2 MBH
MECHANICAL SPACING CONDITIONING SYSTEM	SEE SCHEDULES
UNITARY	
DESCRIPTION OF UNIT:	SEE SCHEDULES
HEATING EFFICIENCY:	SEE SCHEDULES
COOLING EFFICIENCY:	SEE SCHEDULES
SIZE CATEGORY OF UNIT:	SEE SCHEDULES
BOILER	
SIZE CATEGORY, IF OVERSIZED STATE REASON:	N/A
CHILLER	
SIZE CATEGORY, IF OVERSIZED STATE REASON:	N/A
LIST EQUIPMENT EFFICIENCIES:	SEE SCHEDULES



ARCHITECTURE PLANNING

North Carolina
3333 Jaccle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950
Rittenhouse Station
250 South Main Street, Suite 109
Newark, DE 19711
302.349.3700
www.beckermorgan.com

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CBHF
Engineers, PLLC

2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfenr.com

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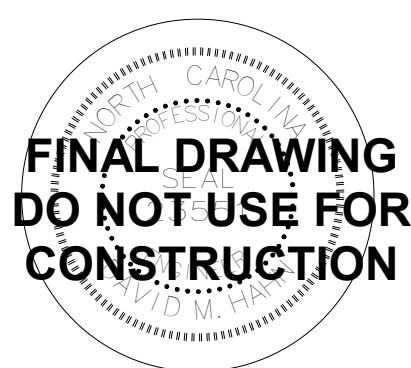
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PROJECT TITLE

WEST
BRUNSWICK
HIGH SCHOOL
CLASSROOM
222
RENOVATION

550 WHITEVILLE ROAD N.W.
SHALLOTTE, NC 28470

DSP # : 100
DPI SCHOOL # : 1167

SHEET TITLE

HVAC DEMOLITION
PLAN

ISSUE BLOCK

Mark	Date	Description
04.16.20	ISSUED FOR BIDDING	
03.22.20	60% CD PROGRESS DRAWINGS	
10.14.19	NC DPI SD SUBMISSION	
07.30.19	SD PROGRESS DRAWINGS	
07.11.19	NC DPI SD SUBMISSION	

PROJECT NO: 2019082.00

DATE: 10.14.2019

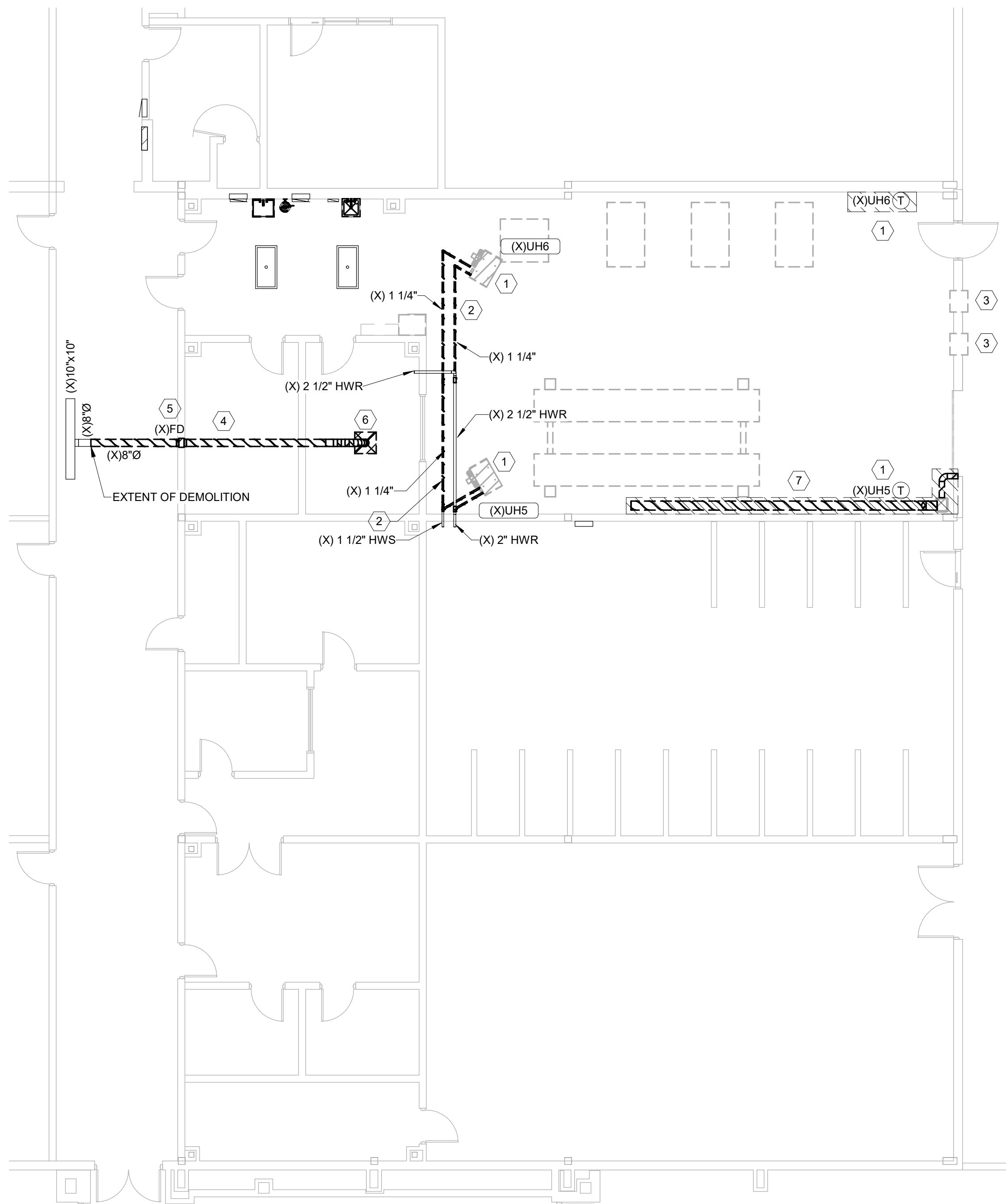
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DEMOLITION KEYED NOTES

- 1 REMOVE / DISPOSE EXISTING UNIT HEATER AND TEMPERATURE SENSOR INCLUDING BUT NOT LIMITED TO TEMPERATURE SENSOR, CONTROL WIRING, ETC. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
- 2 REMOVE / DISPOSE EXISTING HEATING WATER SUPPLY AND RETURN PIPING INCLUDING BUT NOT LIMITED TO HEATING WATER SUPPLY AND RETURN PIPING, HANGERS, SUPPORTS, INSULATION, ETC. TO EXTENT SHOWN. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
- 3 REMOVE / DISPOSE EXISTING AC INCLUDING BUT NOT LIMITED TO AC, HANGERS, SUPPORTS, ANCHORS, INSERTS, CONTROLS, ETC. TO EXTENT SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR WALL PATCH/REPAIR REQUIREMENTS. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
- 4 REMOVE / DISPOSE EXISTING SUPPLY DUCT INCLUDING BUT NOT LIMITED TO SUPPLY DUCT, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC. TO EXTENT SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR WALL PATCH/REPAIR REQUIREMENTS. CAP DUCT REMAINING, INSULATE AND SEAL AIR-TIGHT. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
- 5 REMOVE / DISPOSE EXISTING FIRE DAMPER INCLUDING BUT NOT LIMITED TO FIRE DAMPER, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC. TO EXTENT SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR WALL PATCH/REPAIR REQUIREMENTS. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
- 6 REMOVE / DISPOSE EXISTING SUPPLY DIFFUSER INCLUDING BUT NOT LIMITED TO SUPPLY DIFFUSER, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC. TO EXTENT SHOWN. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
- 7 REMOVE AND DISPOSE OF EXHAUST SYSTEM INCLUDING, BUT NOT LIMITED TO, WALL OUTLET, DUCTWORK, FAN, WALL BRACKETS, HOSES AND CONTROLS.



1 AUTO SHOP DEMOLITION PLAN
- HVAC / HYDRONIC

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

8' 4' 0' 8'
SCALE : 1/8" = 1'-0"

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Engineers, PLLC

2246 Yaupon Drive
Wilmington, NC 28401
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Fax: 910.791.5266
www.cbhfenr.com

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PROJECT TITLE

WEST
BRUNSWICK
HIGH SCHOOL
CLASSROOM
222
RENOVATION

550 WHITEVILLE ROAD N.W.
SHALLOTTE, NC 28470

DSP #: 100
DPI SCHOOL #: 1167

SHEET TITLE

CLASSROOM
RENOVATION PLANS
- HVAC

ISSUE BLOCK

Mark	Date	Description
04.16.20	ISSUED FOR BIDDING	
09.29.20	60% CD PROGRESS DRAWINGS	
10.14.19	NC DPI DD SUBMISSION	
07.30.19	SD PROGRESS DRAWINGS	
07.11.19	NC DPI SD SUBMISSION	

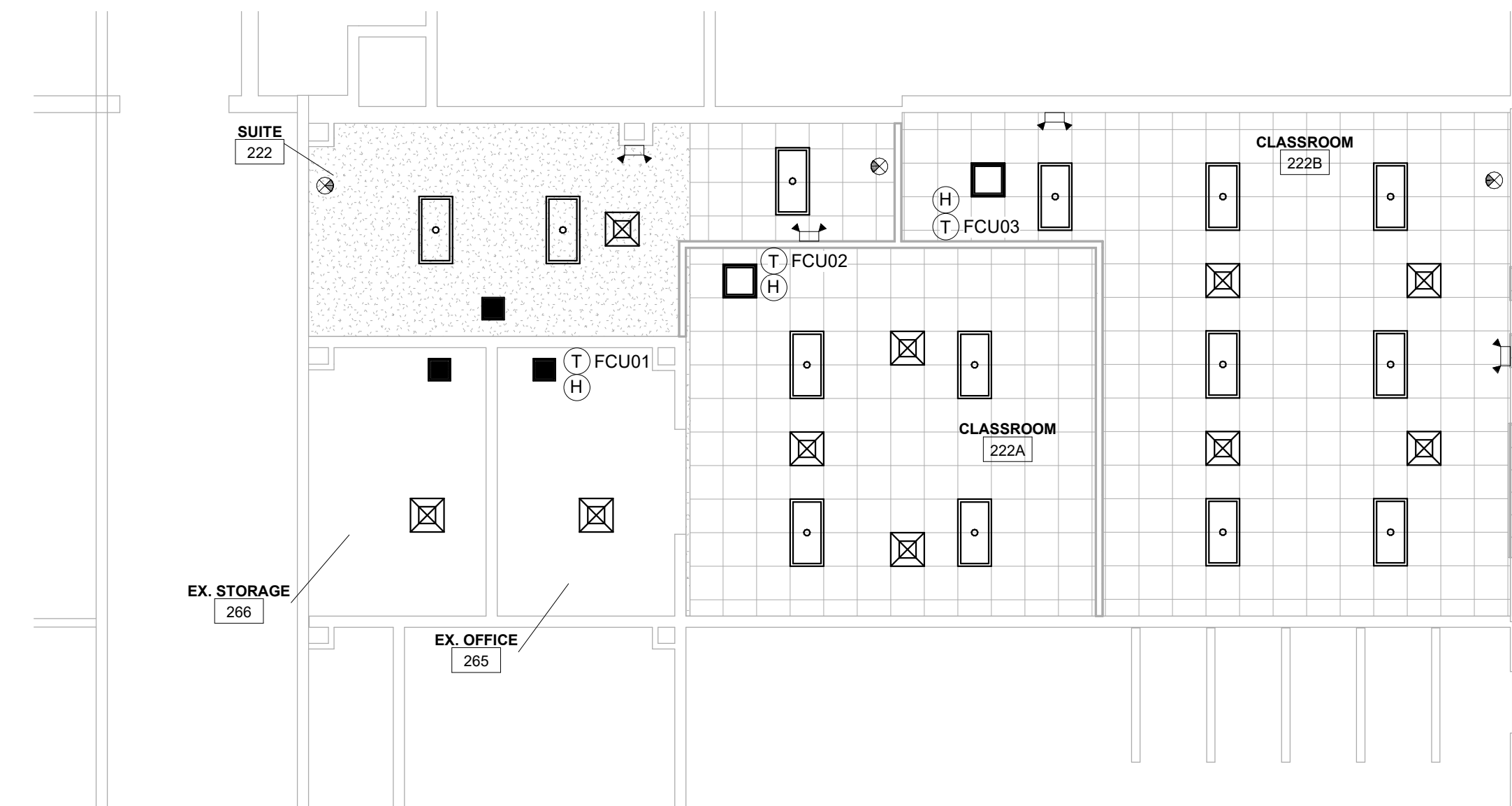
PROJECT NO: 2019082.00

DATE: 10.14.2019

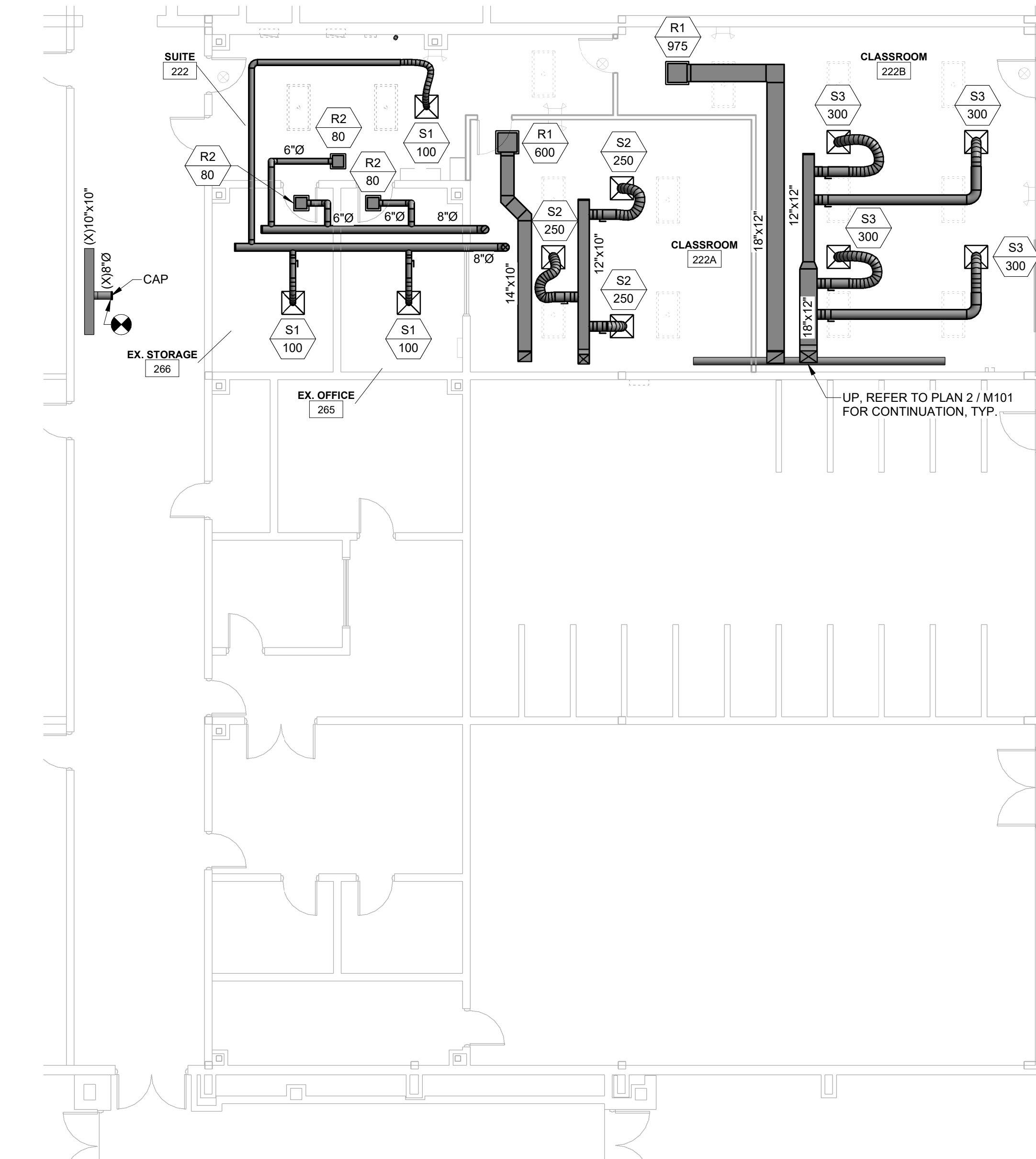
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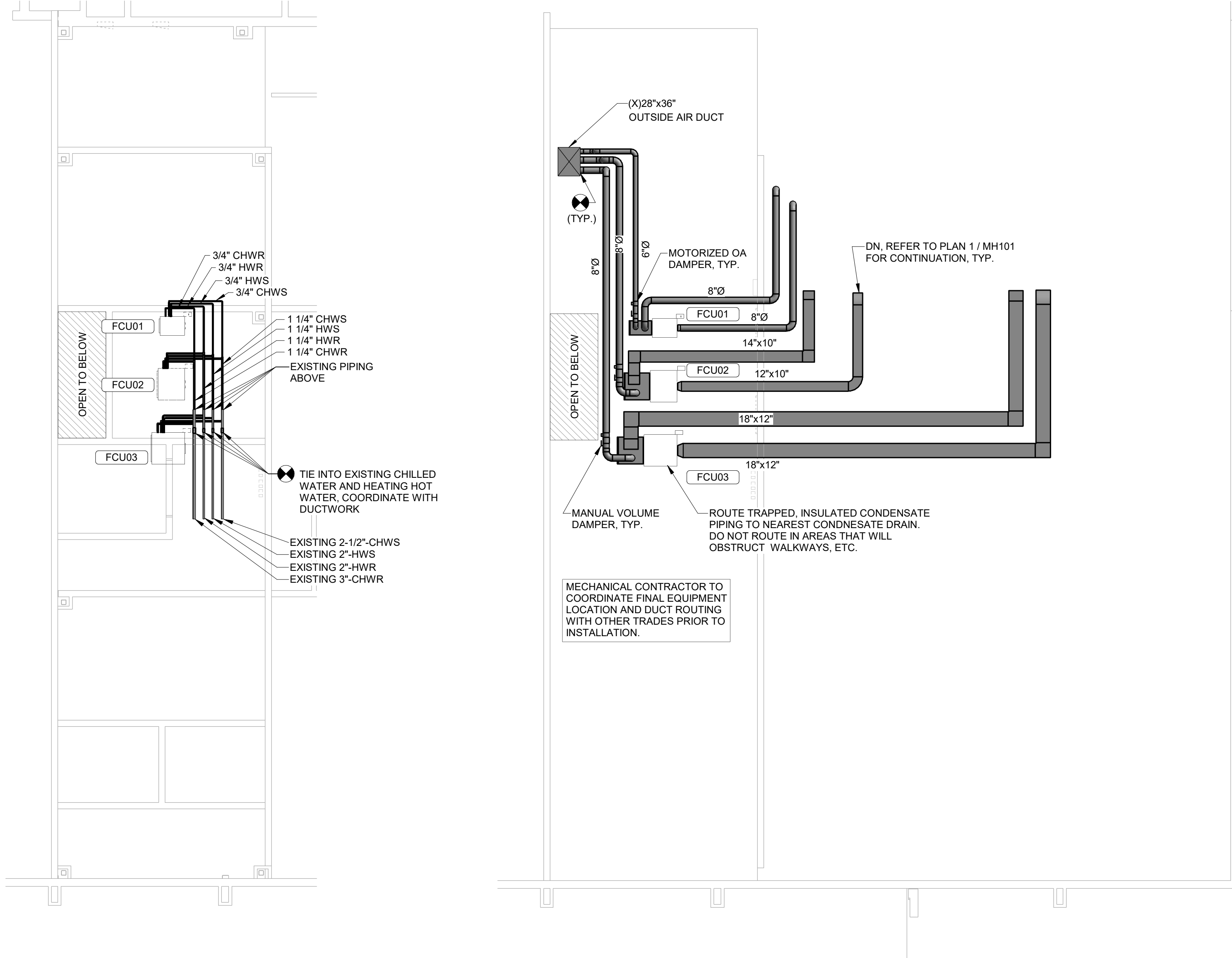
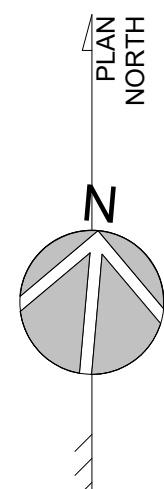


3
CLASSROOM RENOVATION
PLAN - RCP / DDC SENSORS
SCALE: 1/8" = 1'-0"

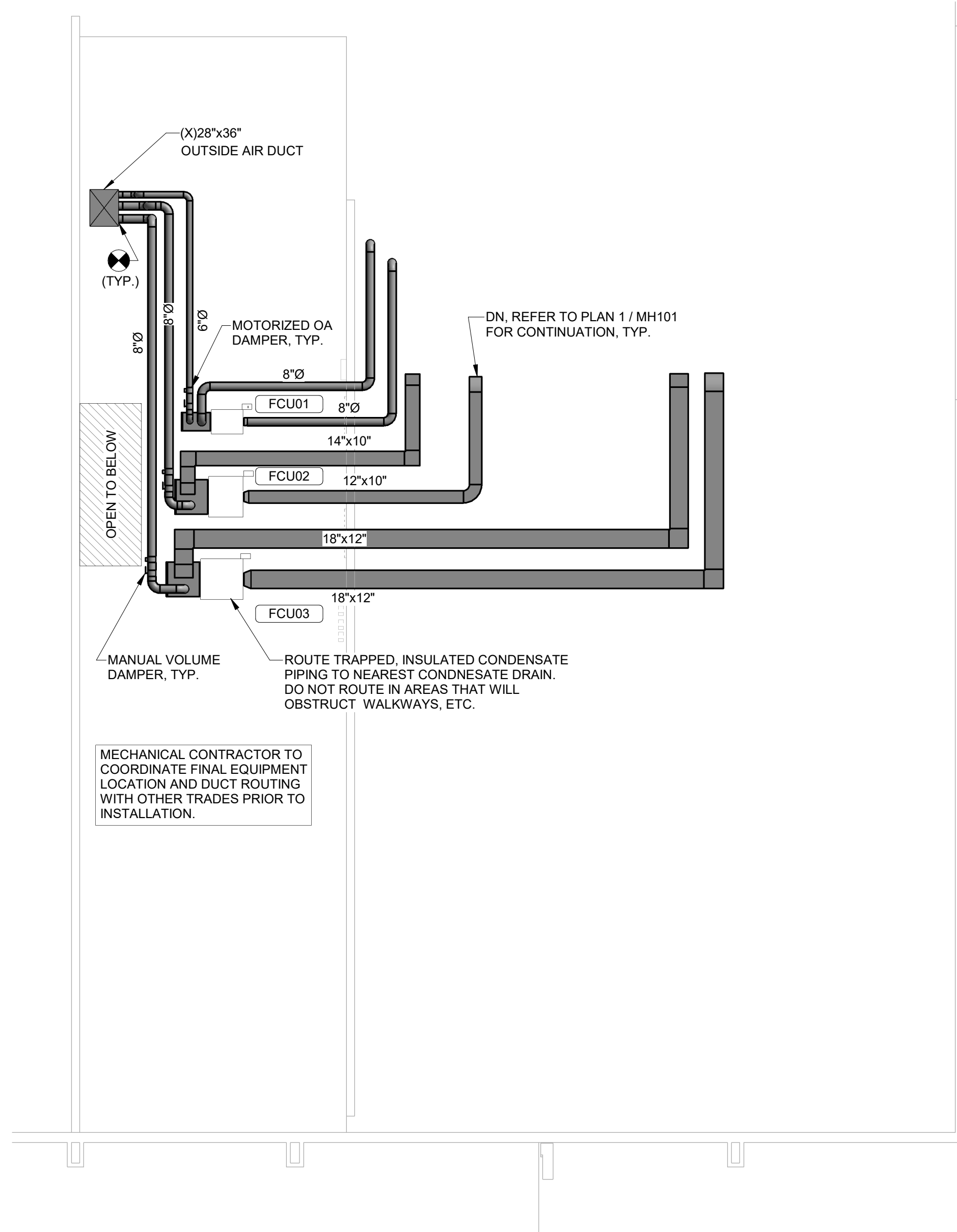


1
CLASSROOM RENOVATION
PLAN - HVAC
SCALE: 1/8" = 1'-0"

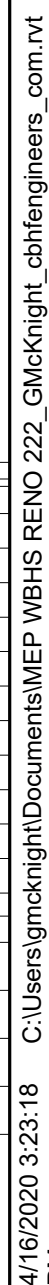
8' 4' 0' 8'
SCALE: 1/8" = 1'-0"

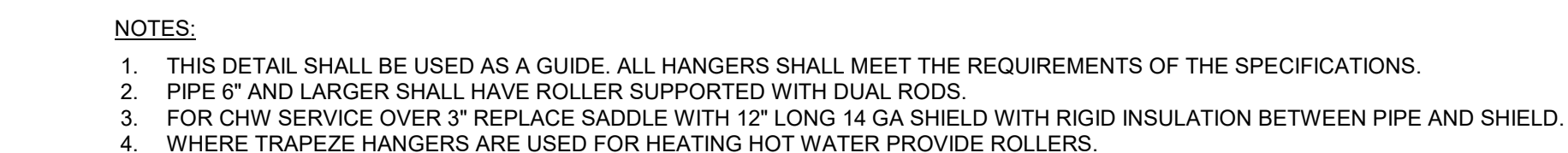
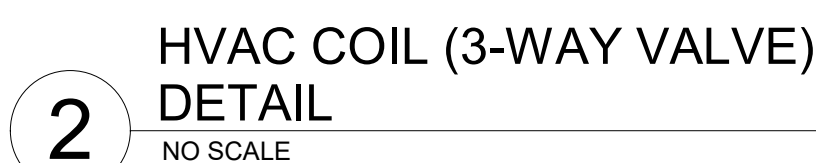
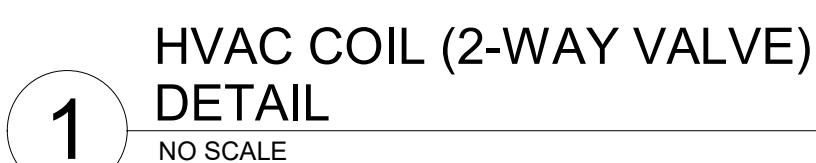


4
CLASSROOM RENOVATION
MEZZANINE PLAN - HYDRONIC
SCALE: 1/8" = 1'-0"

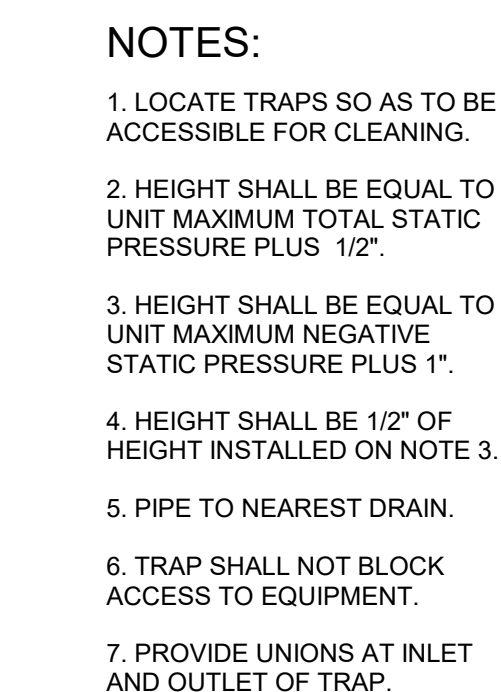


2
CLASSROOM RENOVATION
MEZZANINE PLAN - HVAC
SCALE: 1/8" = 1'-0"





LOAD SCHEDULE		
PIPE SIZE	MAXIMUM SPACING	ROD SIZE
1/2" - 2"	8'	1/2"Ø
2 1/2"	10'	5/8"Ø
3"	10'	5/8"Ø
4"	14'	5/8"Ø
5"	14'	5/8"Ø



5 TYPICAL EQUIPMENT CONDENSATE DRAIN DETAIL

ARCHITECTURE
P L A N N I N G

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410-241-7155

Delaware
309 S Governors Ave
Dover, DE 19904
302 734 7950

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250 South Main Street, Suite 105
Newark, DE 19711
302.369.3700
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Engineers, PLLC

2246 Yaupon Drive
Wilmington, NC 28401
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Fax: 910.791.5266
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PROJECT TITLE:

WEST
BRUNSWICK
HIGH SCHOOL
CLASSROOM
222
RENOVATION

550 WHITEVILLE ROAD N.W.
SHALLOTTE, NC 28470

DSP #: 100
DPI SCHOOL #: 1167

SHEET TITLE

HVAC DETAILS

ISSUE BLOCK		
	04.16.20	ISSUED FOR BIDDING
	03.20.20	60% CD PROGRESS DRAWING
	10.14.19	NCDPI DD SUBMISSION
	07.30.19	SD PROGRESS DRAWINGS
	07.11.19	NCDPI SD SUBMISSION
Mark	Date	Description

PROJECT NO:	2019082.0
DATE:	10.14.2019
SCALE:	12" = 1'-0"
DRAWN BY: GRM	PROJ MGR: DMH

M502

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DRAWING CODE	BASIS OF DESIGN MANUFACTURER	ALTERNATE APPROVED MANUFACTURERS	BASIS OF DESIGN MODEL	SYSTEM TYPE	SUPPLY AIR FAN		ESP	TSP	MOTOR	COOLING COIL		EAT(db)	LAT(db)	EWT	LWT	FLOW	WPD	PIPE CONNECTION	REHEAT COIL		EAT(db)	LAT(db)	EWT	LWT	FLOW	WPD	PIPE CONNECTION	ELECTRICAL POWER SUPPLY (V/PH/Hz)	MCA	MOCP	INSTALLED WEIGHT	NOTES	ACCESSORIES
					IN	OUTSIDE AIRFLOW				TOTAL CAPACITY	SENSIBLE CAPACITY								REHEAT	REHEAT													
FCU01	TRANE	IEC, YORK	BCHC0012E	HORIZONTAL	300 CFM	60 CFM	0.75 in/wg	1.35 in/wg	0.50 hp	13060 Btu/h	8930 Btu/h	80.0 °F	53.0 °F	45 °F	55 °F	2.6 GPM	2.9 t/H2O	3/4"	14980 Btu/h	60.0 °F	106.1 °F	180 °F	160 °F	1.5 GPM	1.3 t/H2O	3/4"	4606/03	1.3 A	15.0 A	110 lb	12.3, 4	A THUR E	
FCU02	TRANE	IEC, YORK	BCHC0035E	HORIZONTAL	750 CFM	150 CFM	0.75 in/wg	1.09 in/wg	1.00 hp	31520 Btu/h	21800 Btu/h	80.0 °F	53.0 °F	45 °F	55 °F	6.3 GPM	6.3 t/H2O	3/4"	44150 Btu/h	60.0 °F	114.4 °F	180 °F	160 °F	4.4 GPM	16.4 t/H2O	3/4"	4606/03	2.5 A	15.0 A	175 lb	12.3, 4	A THUR E	
FCU03	TRANE	IEC, YORK	BCHC0034E	HORIZONTAL	1200 CFM	225 CFM	0.75 in/wg	1.29 in/wg	1.00 hp	51420 Btu/h	35630 Btu/h	80.0 °F	53.0 °F	45 °F	55 °F	10.3 GPM	2.0 t/H2O	3/4"	63450 Btu/h	60.0 °F	108.8 °F	180 °F	160 °F	6.3 GPM	0.6 t/H2O	3/4"	4606/03	2.5 A	15.0 A	245 lb	12.3, 4	A THUR E	

1. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. CONTROLS BY DDC CONTRACTOR, MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION
3. PIPING SYSTEM / PLACEMENT TO BE COORDINATED BY MECHANICAL CONTRACTOR.
4. PROVIDE HEATING COIL IN REHEAT POSITION.

A. FACTORY INSTALLED DISCONNECT SWITCH.
B. ECM FAN MOTOR.
C. STAINLESS STEEL DRAIN PAN WITH WATER-LEVEL DETECTION DEVICE CONFORMING TO UL 508 IN ACCORDANCE WITH NORTH CAROLINA MECHANICAL CODE DETECTION 307.2.3
D. 2" MERV 8 FILTER.

FCU

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
 - A 75°F (ADJ.) COOLING SETPOINT
 - A 70°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
 - A 80°F (ADJ.) COOLING SETPOINT.
 - A 65°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.)
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.)

EMERGENCY SHUTDOWN:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN EMERGENCY SHUTDOWN SIGNAL.

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES TO PREVENT SHORT CYCLING. THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

COOLING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE COOLING COIL VALVE TO MAINTAIN ITS COOLING SETPOINT.

THE COOLING SHALL BE ENABLED WHENEVER:

- AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
- AND THE SUPPLY FAN STATUS IS ON,
- AND THE HEATING IS NOT ACTIVE.

HEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE HEATING COIL VALVE TO MAINTAIN ITS HEATING SETPOINT.

THE HEATING SHALL BE ENABLED WHENEVER:

- AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE SUPPLY FAN STATUS IS ON,
- AND THE COOLING IS NOT ACTIVE.

OUTSIDE AIR DAMPER:
THE OUTSIDE AIR DAMPER SHALL OPEN TO PROVIDE MINIMUM OUTSIDE AIR VENTILATION ANYTIME THE UNIT IS OCCUPIED. THE OUTSIDE AIR DAMPER SHALL CLOSE 5 SEC (ADJ.) AFTER THE SUPPLY FAN STOPS.

MINIMUM OUTSIDE AIR VENTILATION - FIXED PERCENTAGE:
THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM POSITION (ADJ.) DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS.

DEHUMIDIFICATION:
THE CONTROLLER SHALL MEASURE THE ZONE HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW 55% RH (ADJ.)

DURING DEHUMIDIFICATION, THE HEATING SHALL MODULATE TO MAINTAIN A SETPOINT T°F (ADJ.) LESS THAN THE ZONE COOLING SETPOINT.

DEHUMIDIFICATION SHALL BE ENABLED WHENEVER:

- THE SUPPLY FAN STATUS IS ON,
- AND ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT.

ZONE HUMIDITY:
THE CONTROLLER SHALL MONITOR THE ZONE HUMIDITY AND USE AS REQUIRED FOR HUMIDITY CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE HUMIDITY: IF THE ZONE HUMIDITY IS GREATER THAN 70% (ADJ.)
- LOW ZONE HUMIDITY: IF THE ZONE HUMIDITY IS LESS THAN 35% (ADJ.)

SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

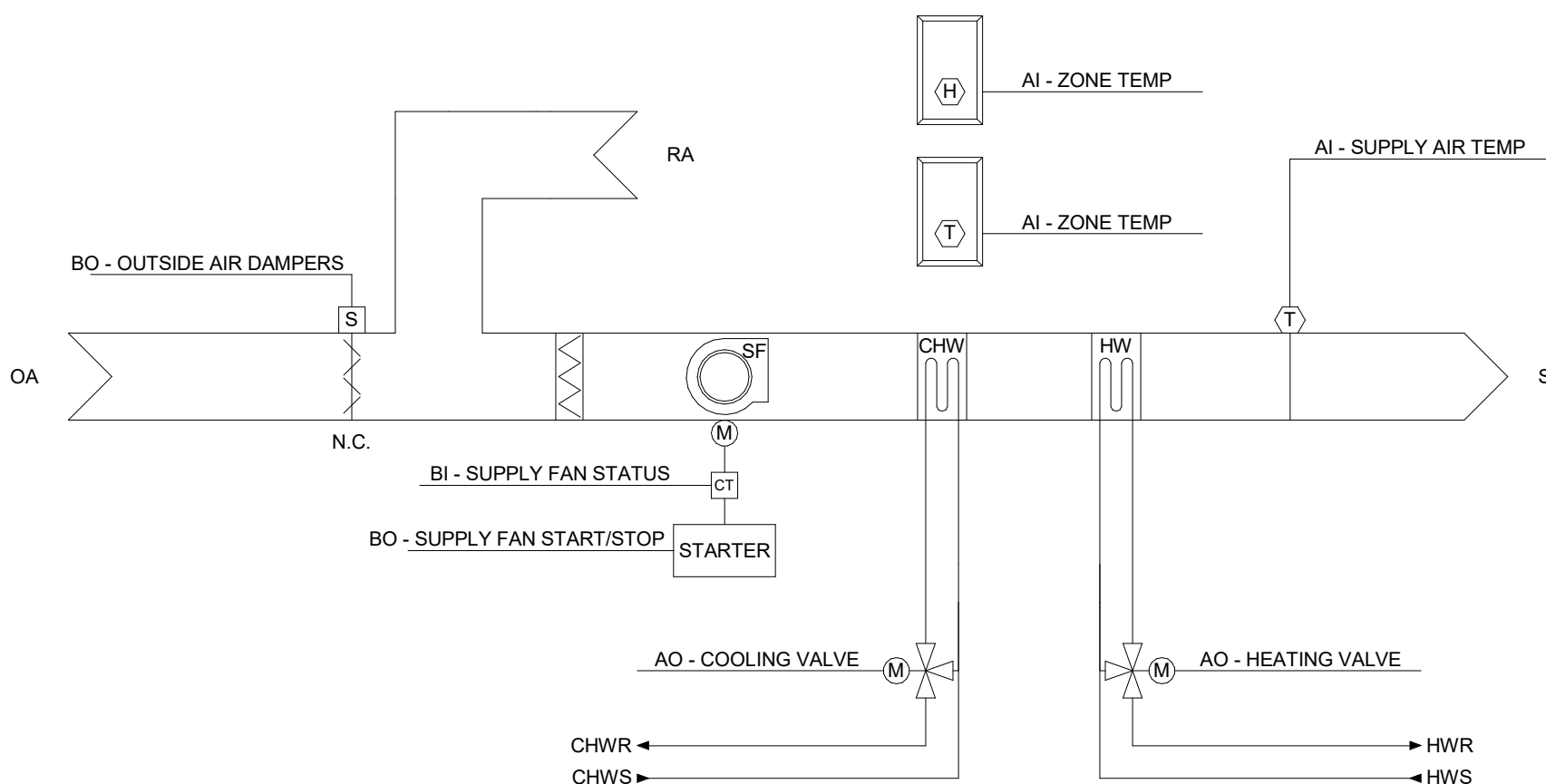
ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.)
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.)

DRAWING CODE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ALTERNATE APPROVED MANUFACTURERS	TYPE	SERVICE	NECK SIZE	MODULE SIZE	MATERIAL	FINISH	MOUNTING	NOTES	ACCESSORIES
R1	TITUS	350FSF	PRICE, METAL AIRE	LOUVERED GRILLE	RETURN	20 X 20	24 X 24	ALUMINUM	WHITE ENAMEL	T-BAR	1,2,3	A
R2	TITUS	350FSF	PRICE, METAL AIRE	LOUVERED GRILLE	RETURN	12 X 12	-	ALUMINUM	WHITE ENAMEL	CEILING SURFACE	1,2,3	A
S1	TITUS	TMS-AA	PRICE, METAL AIRE	3-CONE DIFFUSER	SUPPLY	60	24 X 24	ALUMINUM	WHITE ENAMEL	CEILING SURFACE	1,2,3	A
S2	TITUS	TMS-AA	PRICE, METAL AIRE	3-CONE DIFFUSER	SUPPLY	80	24 X 24	ALUMINUM	WHITE ENAMEL	T-BAR	1,2,3	A
S3	TITUS	TMS-AA	PRICE, METAL AIRE	3-CONE DIFFUSER	SUPPLY	100	24 X 24	ALUMINUM	WHITE ENAMEL	T-BAR	1,2,3	A

1. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. DUCT BRANCH CONNECTION SIZE TO BE EQUAL TO THE NECK SIZE OF DIFFUSER UNLESS NOTED OTHERWISE ON PLANS.
3. COORDINATE FINAL COLOR AND FINISH WITH ARCHITECT.

A. OPPOSED BLADE DAMPER.

[illegible]

FAN COIL UNIT CONTROL DIAGRAM

ARCHITECTURE
P L A N N I N G

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

Rittenhouse Station
250 South Main Street, Suite 109
Newark, DE 19711
302.369.3700
www.beckermorgan.com

ISSUED


FOR BIDDING

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ISSUED: 04.16.20

CBHF
Engineers, PLLC

2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfengineers.com
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**FINAL DRAWING
DO NOT USE FOR
CONSTRUCTION**

PROJECT TITLE

WEST
BRUNSWICK
HIGH SCHOOL
CLASSROOM
22
RENOVATION

0 WHITEVILLE ROAD N.W.
HALLLOTTE, NC 28470

DSP #: 100
DPI SCHOOL #: 110

T TITLE

MECHANICAL SCHEDULES AND CONTROLS

BLOCK _____

	04.16.20	ISSUED FOR BIDDING
	03.20.20	60% CD PROGRESS DRAWING
	10.14.19	NCDPI DD SUBMISSION
	07.30.19	SD PROGRESS DRAWING
	07.11.19	NCDPI SD SUBMISSION
rk	Date	Description

PROJECT NO:	201908
DATE:	10.14.2019

SCALE: 12" =

DRAWN BY: GRM PROJ MGR: []

[Learn more](#)

M600

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA, THE NORTH CAROLINA STATE BUILDING CODE, ALL LOCAL CODES AND ORDINANCES AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- ALL EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF INSTALLATION. ALL MATERIAL, EQUIPMENT AND DEVICES SHALL BE NEW CURRENT PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS. EQUIPMENT SHALL BE SUITABLE FOR ITS APPLICATION (E.G. WHEN INSTALLED OUTDOORS, IT SHALL BE WEATHERPROOF, ETC.)
- THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR WORK REQUIREMENTS, THE AMOUNT OF SPACE AVAILABLE FOR ELECTRICAL EQUIPMENT, AND LOCATE HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER.
- THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THOROUGHLY FAMILIARIZING HIMSELF WITH ANY CONTRACTUAL REQUIREMENTS AS MAY BE SET FORTH IN THE OTHER DIVISIONS OF THE PROJECT SPECIFICATIONS.
- UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY FUNCTIONING AFTER INSTALLATION. INCIDENTAL COMPONENTS MAY NOT BE SHOWN, AND ALL WORK WHICH MAY BE REASONABLY IMPLIED AS BEING INCIDENTAL TO THIS WORK, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ADDITIONAL CIRCUITS SHALL BE INSTALLED WHEREVER NEEDED TO CONFORM TO THE SPECIFIC REQUIREMENTS OF EQUIPMENT.
- TEMPORARY POWER CONNECTIONS AS REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ALL TEMPORARY EQUIPMENT WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL PROVIDE DETAILS, METHODS, MATERIALS, ETC. FOR REVIEW PRIOR TO MAKING TEMPORARY CONNECTIONS. FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL EQUIPMENT, MOTOR STARTERS, BRANCH AND FEEDER CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, ETC. FOR TEMPORARY POWER. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY AS REQUIRED.
- THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE COMPLETION OF WORK AND ANY MINOR CORRECTIONS, CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT.
- ALL EQUIPMENT SHOWN DOTTED OR DASHED IS BY OTHERS OR IS EXISTING, AS NOTED.
- ALL ELECTRICAL EQUIPMENT SHALL, AT ALL TIMES DURING CONSTRUCTION, BE ADEQUATELY PROTECTED AGAINST MECHANICAL INJURY, OR DAMAGE BY WATER AND/OR THE ELEMENTS. ELECTRICAL EQUIPMENT SHALL NOT BE STORED OUT OF DOORS, BUT SHALL BE STORED IN DRY PERMANENT SHELTERS. IF AN APPARATUS HAS BEEN DAMAGED, OR HAS BEEN SUBJECT TO POSSIBLE INJURY BY WATER OR THE ELEMENTS, SUCH DAMAGE SHALL BE REPLACED AT NO ADDITIONAL COST.
- DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- CIRCUIT LAYOUTS ARE NOT INTENDED TO SHOW THE NUMBER OF FITTINGS, OR OTHER INSTALLATION DETAILS, UNLESS NOTED OTHERWISE. THE EXACT ROUTING OF FEEDER AND BRANCH CIRCUIT RACEWAYS AND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. RISER AND GENERAL CIRCUIT ARRANGEMENTS ARE SHOWN SCHEMATICALLY/DIAGRAMMATICALLY ONLY. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION.
- UNLESS DIMENSIONED, DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADJUST EXACT LOCATIONS AS REQUIRED TO SERVE THE INTENDED PURPOSE AND TO AVOID CONFLICTS AND INTERFERENCES WITH OTHER TRADES. EXACT DEVICE LOCATIONS SHALL BE AS INDICATED ON THE ELECTRICAL DRAWINGS OR AS DIMENSIONED. IF NOT SHOWN ON THE ARCHITECTURAL DRAWINGS OR DIMENSIONED ON THE ELECTRICAL DRAWINGS, VERIFY EXACT LOCATION WITH THE ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
- CONDUIT TERMINATING IN PRESSED STEEL BOXES SHALL HAVE DULDED LOOKOUTS AND INSULATED BUSHINGS. CONDUITS TERMINATING IN GASKETED ENCLOSURES SHALL BE TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.
- DEVICE BOXES SHOWN BACK-TO-BACK SHALL BE OFFSET A MINIMUM OF TWELVE (12) INCHES TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.
- BRANCH CIRCUIT HOMERUNS SHOWN ON DRAWINGS INDICATE PHASE CONDUCTORS, NEUTRAL, EQUIPMENT GROUND CONDUCTORS AS REQUIRED. ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.
- SEAL ALL CONDUIT OPENINGS THROUGH EXTERIOR BUILDING WALLS WATERTIGHT.
- IN WET LOCATIONS AND EXTERIOR, ALL WIRING DEVICES SHALL BE WEATHER-RESISTANT LISTED WITH WEATHERPROOF WHILE IN USE COVER. LIGHTING FIXTURES SHALL BE APPROPRIATELY RATED AND LISTED FOR THE ENVIRONMENT INCLUDING DEGREE BALLASTS FOR FLUORESCENT.
- RACEWAYS PENETRATING FLOORS, CEILINGS OR WALLS SHALL BE PROPERLY SEALED SMOKE/TIGHT.
- RACEWAYS PENETRATING RATED FLOOR, CEILING OR WALL ASSEMBLIES SHALL BE PROPERLY SEALED IN ACCORDANCE WITH THE CORRESPONDING UNDERWRITERS LABORATORIES (OR OTHER APPROVED THIRD PARTY TESTING AGENCY) APPROVED AND LISTED FIRESTOPPING MATERIALS AND MANUFACTURER APPROVED INSTALLATION TECHNIQUES COMPLYING WITH ALL APPLICABLE CODES. SEE ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF RATED WALLS AND CEILINGS.
- ALL RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE.
- INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARLY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS POSSIBLE. NO DIAGONAL RUNS WILL BE ALLOWED. ALL CONDUITS SHALL BE RUN STRAIGHT AND TRUE, RUN PARALLEL, OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS WHERE PRACTICAL. MAKE BENDS IN PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL.
- PROVIDE AND PLACE ALL SLEEVES FOR CONDUITS PENETRATING WALLS, FLOORS, PARTITIONS, ETC. LOCATE ALL NECESSARY SLOTS FOR ELECTRICAL WORK AND FORM BEFORE CONCRETE IS POURED.
- PATCHING OF WATERPROOFED SURFACES SHALL RENDER THE AREA OF THE PATCHING COMPLETELY WATERPROOF.
- ALL MOTORS, DRY TYPE TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE CONNECTED TO THE CONDUIT SYSTEM BY MEANS OF A SHORT SECTION (18 INCH MINIMUM) OF FLEXIBLE CONDUIT UNLESS OTHERWISE INDICATED. AN EQUIPMENT GROUNDING CONDUIT SHALL BE INSTALLED INSIDE THE FLEXIBLE CONDUIT AND TERMINATE AT THE LOAD END WITH AN APPROVED GROUNDING CLAMP OR LUG.
- SURFACE MOUNTED PANELBOARDS, JUNCTION, OUTLET AND PULL BOXES, RACEWAYS, ETC., INSTALLED ON EXTERIOR SURFACES OR ON INSIDE ON EXTERIOR WALLS SHALL BE PROVIDED BY SPACERS TO PROVIDE A 1/4" MINIMUM CLEARANCE BETWEEN THE WALL AND EQUIPMENT.
- CEILING MOUNTED DEVICES INSTALLED IN ACQUSTICAL TILE CEILING AREAS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE WITH RODS OF SUFFICIENT SIZE TO PREVENT VERTICAL MOVEMENT OF THE OUTLET BOX. BRIDGES ALONE ARE NOT ADEQUATE UNLESS SPECIFICALLY APPROVED. CEILING MOUNTED EXIT LIGHT FIXTURES SHALL BE INSTALLED LEVEL. DO NOT SUPPORT DEVICES FROM ACQUSTICAL CEILING TILE.
- EXCAVATION AND TRENCHING REQUIRED FOR THE INSTALLATION OF ELECTRICAL POWER AND TELECOMMUNICATIONS RACEWAYS SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 26 OF THE PROJECT SPECIFICATIONS.
- PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS/DATA/FIBER, CABLE TELEVISION, GAS AND WATER UTILITY PROVIDERS AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. DAMAGE TO ANY UNDERGROUND UTILITIES OR STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED BY UNDERGROUND LINE MARKING TAPE LOCATED DIRECTLY ABOVE THE RACEWAY AT 6 TO 8 INCHES BELOW FINISHED GRADE. SEE SPECIFICATIONS SECTION 260553.
- PROVIDE ADHESIVE BACKED GASKETED DEVICE PLATE LABELS IDENTIFYING THE CIRCUIT FEEDING THE DEVICE. LABELS SHALL INDICATE PANEL AND CIRCUIT NUMBER.
- FINAL TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET SHALL INCLUDE FINAL ACTUAL, ROOM NAMES AND NUMBERS IN ADDITION TO THE GENERAL DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS.
- CONDUCTOR SIZING IS BASED ON 75 DEGREE C. COPPER NEC RATINGS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THE ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C. WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C. CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY FOR EVALUATION/CORRECTION.
- DO NOT PULL CONDUCTORS UNTIL THE CONDUIT SYSTEM IS COMPLETE IN EVERY DETAIL. IN THE CASE OF CONCEALED WORK, "COMPLETE" MEANS UNTIL ALL ROUGH PLASTERING OR MASONRY HAS BEEN COMPLETED.
- WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, BRANCH CIRCUITS SHALL CONSIST OF #12 OR #10 AWG MINIMUM PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS IN 1/2" MINIMUM RACEWAY.
- USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL INSTALLED LENGTH GREATER THAN 75 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN 50 FEET. I.E.: #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET.
- COMMON NEUTRAL, MULTIWIRE RECEPTACLE BRANCH CIRCUITS ARE NOT PERMITTED. PROVIDE SEPARATE, INDIVIDUAL, NEUTRAL CONDUCTORS FOR MULTIWIRE BRANCH CIRCUITS.
- KEEP CONDUIT SPLICES TO A MINIMUM. INSTALL SPLICES AND TAPES THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN CONDUCTORS BEING SPLICED. USE SPLICE AND TAP CONNECTORS COMPATIBLE WITH CONDUCTOR MATERIAL. INSTALL CONDUCTORS AT EACH OUTLET WITH AT LEAST 8 INCHES OF SLACK. CONNECT OUTLETS AND COMPONENTS TO WIRING AND TO GROUND AS INDICATED AND INSTRUCTED BY THE MANUFACTURER.
- DO NOT SPlice BRANCH CIRCUIT HOMERUNS WITHOUT THE PERMISSION OF THE ARCHITECT/ENGINEER. HOMERUNS SHALL BE CONTINUOUS FROM THE LAST OUTLET BOX TO THE SERVING PANELBOARD.
- DO NOT COMBINE BRANCH CIRCUIT HOMERUNS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.
- DO NOT CHANGE CIRCUITING SHOWN WITHOUT PERMISSION OF THE ARCHITECT/ENGINEER.
- TROUGH TAPS SHALL BE AT 90° IMPACTITY, UNLESS NOTED OTHERWISE.
- INSTALL WIRING DEVICES AT HEIGHTS AS SHOWN ON THE DRAWINGS. ALSO COORDINATE MOUNTING HEIGHTS WITH THE ARCHITECTURAL DRAWINGS AND CASEWORK DETAILS. IF CONFLICTING, ARCHITECTURAL DRAWINGS AND DETAILS SHALL GOVERN.
- PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH THE NEC INCLUDING ALL ELECTRIC WATER COOKERS, EXTERIOR RECEPTACLES AND RECEPTACLES IN AREAS SUBJECT TO POSSIBLE WET CONDITIONS. ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. ALL RECEPTACLES IN NON-RESIDENTIAL KITCHENS SHALL BE GFI PROTECTED.
- CONNECT BATTERY PACK TYPE EMERGENCY AND EXIT LIGHTING FIXTURES TO THE UNSWITCHED LIGHTING CIRCUIT SERVING THE SPACE LIGHTED BY THE EMERGENCY AND EXIT FIXTURES. THESE CONNECTIONS ARE INTENTIONALLY NOT SHOWN TO MAINTAIN DRAWING FOR CLARITY.
- COORDINATE LIGHTING FIXTURE LOCATIONS WITH THE ARCHITECTURAL, REFLECTED CEILING PLAN. IF CONFLICTS ARE NOTED, REQUEST CLARIFICATION FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING.
- ADJACENT SWITCHES SHALL BE GANGED. INSTALL BARRIERS BETWEEN UNKNO VOLTAGE SECTIONS.
- SEPARATE NEUTRALS ARE REQUIRED FOR ALL DIMMED LIGHTING CIRCUITS.
- WHERE THE DRAWINGS INDICATE A LIGHTING FIXTURE IS TO BE PROVIDED WITH SPECIAL FEATURES/SWITCHING (DIMMING, EMERGENCY, BATTERY BALLAST, MULTI-LEVEL, ETC), THE CONTRACTOR SHALL PROVIDE THESE FIXTURES WITH THE APPROPRIATE BALLASTING TO ACCOMMODATE THE SPECIAL FEATURE. THE CONTRACTOR SHALL PROVIDE THE FIXTURES AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE WITH MODIFICATIONS AS REQUIRED BY DRAWING NOTES.
- COORDINATE LOCATIONS OF PLUMBING, MECHANICAL, ELEVATOR, DATA AND TELEPHONE AND AUDIOVISUAL (DIMMING, EMERGENCY, BATTERY BALLAST, MULTI-LEVEL, ETC) WITH THE ELECTRICAL CONTRACTOR AND VENDORS AND THE OWNER BEFORE ROUGH-IN. ADVISE LIGHTING FIXTURES, RECEPTACLES AND ELECTRICAL EQUIPMENT TO ACCOMMODATE THIS EQUIPMENT. ADVISE THE ARCHITECT/ENGINEER OF CONFLICTS BEFORE ROUGH-IN.
- BEFORE COMMENCING WORK OR ORDERING MATERIALS, THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND VERIFY THE NAMEPLATE RATINGS OF ALL EQUIPMENT (MOTORS, HEATERS, COMPRESSORS, ETC.) AND ADJUST THE RATINGS OF THE ELECTRICAL EQUIPMENT (SWITCHES, FUSES, CIRCUIT BREAKERS, FEEDERS, ETC.) AS APPROPRIATE TO SERVE THIS EQUIPMENT.
- ENERGIZE EQUIPMENT ONLY AFTER OBTAINING PERMISSION FROM THE CONTRACTOR PROVIDING THE EQUIPMENT.
- UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, PLUMBING AND GENERAL CONTRACTORS, PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, TO VERIFY MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS ARE PROVIDED IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS.
- THE MECHANICAL AND PLUMBING CONTRACTORS SHALL FURNISH ALL STARTERS AND CONTROLS FOR THEIR EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL MOUNT STARTERS FURNISHED BY THE MECHANICAL AND PLUMBING CONTRACTORS. THE ELECTRICAL CONTRACTOR PROVIDE ALL SAFETY SWITCHES, WIRING AND CONNECTIONS TO LINE SIZE AND LOAD SIZE OF STARTERS AND SAFETY SWITCHES COMPLETE TO MECHANICAL EQUIPMENT. FOR RESISTANCE TYPE LOADS WHERE STARTERS OR CONTACTORS ARE NOT REQUIRED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS COMPLETE TO EQUIPMENT. THE MECHANICAL AND PLUMBING CONTRACTORS SHALL PROVIDE ALL CONTROL WIRING AND CONNECTIONS AND DEVICES FOR THEIR EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL EQUIPMENT TERMINATIONS, PLUGS AND CORDSETS WITH VENDOR EQUIPMENT AND VERIFY ALL DEVICE LOCATIONS FOR SPECIALTY EQUIPMENT WITH CASEWORK PRIOR TO ROUGH-IN.
- THE LAYOUT AND PLACEMENT OF ELECTRICAL DISTRIBUTION EQUIPMENT IN ELECTRICAL AND MECHANICAL EQUIPMENT ROOMS IS BASED ON PUBLISHED EQUIPMENT SIZES AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. DEVIATIONS FROM CONFIGURATIONS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE NATIONAL ELECTRIC CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT. PANELBOARDS, TRANSFORMERS, SAFETY SWITCHES, SWITCHBOARDS, ETC. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES. ADVISE THE ARCHITECT/ENGINEER OF CONFLICTS BEFORE ROUGH-IN.
- COORDINATION WITH THE UTILITY COMPANY FOR PLACEMENT OF THE UTILITY FACILITIES AND THE CONTRACTOR'S SERVICE ENTRANCE RACEWAYS AND CONNECTIONS TO THE CONTRACTOR'S SERVICE ENTRANCE CONDUCTORS IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- TELECOMMUNICATIONS AND DATA CABLES WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. LEAVE PULL WIRES OR ROPES OF ADEQUATE TENSILE STRENGTH IN ALL EMPTY CONDUITS.
- PROVIDE TELEPHONE, FIBER AND DATA SERVICE ENTRANCE CONDUIT IN SIZES AND LOCATIONS FOR MOBILE UNITS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE OWNER AND THE SERVICE UTILITIES. UTILITY SERVICE ENTRANCE CABLES WILL BE PROVIDED AND INSTALLED BY THE OWNER'S SERVICE UTILITIES. LEAVE PULL WIRES OR ROPES OF ADEQUATE TENSILE STRENGTH IN ALL EMPTY CONDUITS.
- EXACT SPACING OF SMOKE AND HEAT DETECTORS AND AV DEVICES SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE WITH POSITIONS SHOWN ON THE DRAWINGS. DETECTOR SPACING IS BASED UPON NFPA 72 INCLUDING APPENDIX A. SLIGHT ADJUSTMENTS MAY BE MADE IN SPACING IF REQUIRED BY FIELD CONDITIONS, BUT SPACING SHALL NOT EXCEED ADA, NFPA AND EQUIPMENT MANUFACTURERS SPACING CRITERIA. DO NOT INSTALL SMOKE DETECTORS WITHIN 3 FEET OF SUPPLY AIR DIFFUSERS OR RETURN GRILLES. PROVIDE FLEX CONDUIT CONNECTION TO SMOKE AND HEAT DETECTORS OF ADEQUATE LENGTH TO ALLOW HORIZONTAL ADJUSTMENT OF FOUR FEET FROM POSITION INDICATED ON DRAWINGS.
- INSTALLATION INFORMATION PACKED WITH LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHALL BE RETAINED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.
- SAFETY: COMPLY WITH OSHA AND NEC ARC FLASH PROTECTION REQUIREMENTS.
- ALL SWITCHES, RECEPTACLE AND LIGHTS SHALL COMPLY WITH ANSI 117.2 FOR ADA REQUIREMENTS.
- FURNISH SHUNT TRIP CIRCUIT BREAKERS FOR ELECTRICAL FOOD SERVICE EQUIPMENT INSTALLED UNDER THE EXHAUST HOOD. CONNECT TO DE-ENERGIZE THESE UNITS UPON ACTIVATION OF THE EXHAUST HOOD FIRE SUPPRESSION SYSTEM. COORDINATE CONNECTIONS WITH THE FOOD SERVICE EQUIPMENT CONTRACTOR.
- PROVIDE SEAL-OFF FITTINGS FOR ALL CONDUITS ENTERING OR LEAVING REFRIGERATED WALK-IN BOXES.
- THE ELECTRICAL CONTRACTOR AND ALL SUB CONTRACTORS WORKING FOR THE ELECTRICAL CONTRACTOR ARE RESPONSIBLE FOR COMMISSIONING EACH SYSTEM INDICATED IN THESE DRAWINGS. THE ELECTRICAL CONTRACTOR AND ALL SUB CONTRACTORS WORKING FOR THE ELECTRICAL CONTRACTOR ARE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATIONAL SYSTEM TO OWNER. THE SYSTEMS WILL NOT BE CONSIDERED OPERATIONAL UNTIL THE OWNER HAS APPROVED EACH SYSTEM.
- INSTALL COLOR CODED CEILING TACKS IN ACQUSTICAL TILE CEILINGS OR COLOR CODED TAPE ON CEILING GRID TO IDENTIFY LOCATION OF ELECTRICAL EQUIPMENT, DISCONNECTS, LIGHTING CONTROLLERS AND POWER PACKS ETC., THAT REQUIRE REGULAR MAINTENANCE OR ARE PART OF A LIFE SAFETY SYSTEM. DOTS SHALL BE PLACED ON CEILING GRID.

DEMOLITION NOTES

- SELECTIVE ELECTRICAL DEMOLITION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS DESCRIBED HEREIN AND AS SHOWN ON THE CONTRACT DRAWINGS. GROSS DEMOLITION WILL BE PROVIDED BY THE GENERAL CONTRACTOR. IDENTIFY ACTIVE UTILITIES, AND AT THE APPROPRIATE TIME, DISCONNECT AND CAP OFF SUCH UTILITIES AND PROVIDE EXPERIENCED PERSONNEL ON SITE DURING GENERAL CONTRACTOR DEMOLITION OPERATIONS TO PERFORM SUCH OPERATIONS AND RESOLVE ISSUES. REMOVE MATERIALS NOTED FOR SALVAGE AND REUSE. IDENTIFY AND MARK WIRING AND DEVICES TO REMAIN FOR THE GENERAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND CARRY OUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL WIRING DEVICES, BOXES, FIXTURES, EXPOSED ABANDONED RACEWAYS, HANGARS, ETC., AND THOSE MADE OBSOLETE BY THESE ALTERATIONS AND AS SHOWN ON THE ELECTRICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY ELECTRICAL WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE OWNER OR ARCHITECT/ENGINEER. SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A BID AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPICTED ON THE DRAWINGS AND SOME UNUSAL CONDITIONS MAY EXIST.
- REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- ALL EXISTING ELECTRICAL EQUIPMENT AND CIRCUITS SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.
- VERIFY FIELD MEASUREMENTS AND EQUIPMENT ARRANGEMENTS AS ARE SHOWN ON DRAWINGS.
- VERIFY THAT ABANDONED WIRING AND CIRCUITING SERVICE ONLY ABANDONED FACILITIES.
- DISCONNECT AND/OR DE-ENERGIZE ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- PROVIDE TEMPORARY AND/OR PERMANENT WIRING AND CONNECTIONS AS SHOWN AND/OR AS REQUIRED BY CONDITIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, AND WHEN SUCH WORK IS SPECIFICALLY APPROVED BY THE OWNER AND PERMITTED BY REGULATORY AUTHORITIES, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- EXISTING ELECTRICAL SERVICE: COORDINATE POWER OUTAGES WITH THE OWNER AND UTILITY COMPANY. MAINTAIN EXISTING SYSTEMS IN SERVICE. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM THE OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
- CONTINUOUS SERVICE IS REQUIRED ON ALL CIRCUITS AND OUTLETS AFFECTED BY THESE CHANGES, EXCEPT WHERE THE OWNER WILL PERMIT AN OUTAGE FOR A SPECIFIC TIME. OBTAIN OWNER'S CONSENT BEFORE REMOVING ANY CIRCUIT FROM CONTINUOUS SERVICE.
- PROTECT ALL EXISTING TELEPHONE, DATA, LIFE SAFETY SYSTEMS, FIRE ALARM, SECURITY, ACCESS CONTROL AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ARCHITECT/ENGINEER IN WRITING IF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
- WHERE ELECTRICAL SYSTEMS PASS THROUGH THE DEMOLITION AREA TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE PROTECTED FROM DAMAGE AND REMAIN OR BE SUITABLY RELOCATED UTILIZING MATCHING SIZE AND TYPE MATERIALS AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE ARCHITECT/ENGINEER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.
- EXISTING FIRE ALARM SYSTEM: COORDINATE WORK WITH THE OWNER'S FIRE ALARM SYSTEM VENDOR AND MAINTAIN THE EXISTING SYSTEM IN SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY THE OWNER AND LOCAL FIRE SERVICE AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. LIMIT OUTAGES TO NORMAL BUSINESS HOURS ONLY AND MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
- MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
- ENDS OF ALL CONDUITS TO REMAIN SHALL BE TIGHTLY PLUGGED TO EXCLUDE DUST AND MOISTURE WHILE THE BUILDING IS UNDER RENOVATION.
- PROTECT EXISTING CIRCUITS TO REMAIN AND EXTEND AS REQUIRED UTILIZING MATCHING CONDUCTORS AND CONDUIT SIZE AND TYPE.
- SECURE ALL CIRCUITS, RACEWAYS, CABLE AND CONDUCTORS THAT, AS A RESULT FROM THIS CONSTRUCTION, ARE ABANDONED OR UNUSED. REMOVE UNUSED EXPOSED CONDUIT AND WIRING BACK TO POINT OF CONCEALMENT INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILINGS. REMOVE UNUSED WIRING IN CONCEALED CONDUITS BACK TO SOURCE OR NEAREST POINT OF USAGE. BLANK ABANDONED KNOCKOUTS IN REMAINING BOXES. INSTALL BLANK PLATES FOR ALL UNUSED OUTLETS THAT WILL REMAIN AS A RESULT OF THIS CONSTRUCTION. ALL SUCH WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- TRACE OUT EXISTING WIRING THAT IS TO BE RELOCATED OR REMOVED AND PERFORM THE RELOCATION OR REMOVAL WORK AS REQUIRED FOR A COMPLETE OPERATING AND SAFE SYSTEM.
- RECONNECT EXISTING CIRCUITS SEPARATED AS A RESULT OF THIS CONSTRUCTION.
- EXTEND EXISTING SWITCH LEGS TO NEW SWITCH LOCATIONS AS SHOWN AND/OR REQUIRED.
- DELIVER ALL REMOVED AND SALVAGED LIGHTING FIXTURES, WIRING DEVICES, FIRE ALARM DEVICES, SPEAKERS, ETC., TO THE OWNER, OR AT THE OWNER'S OPTION, DISPOSE OF PROPERLY OFF SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. FEES ASSOCIATED WITH DISPOSAL SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID.
- REMOVE ALL FLUSH MOUNTED DEVICES THAT CONFLICT WITH NEW CONSTRUCTION AND SECURE THEIR ASSOCIATED BRANCH CIRCUITS.
- COORDINATE WITH THE OTHER TRADES, PRIOR TO BID, AND INCLUDE IN THE BASE BID THE ELECTRICAL DISCONNECTION OF ANY EQUIPMENT BEING DEMOLISHED, EVEN IF NOT EXPLICITLY SHOWN. UNLESS NOTED OTHERWISE, REMOVE ALL DEMOLISHED EQUIPMENT FROM THE PROPERTY AND IDENTIFIED IN THE ELECTRICAL DRAWINGS.
- THESE DRAWINGS ARE COMPLIED BY THE ARCHITECT/ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL CIRCUITS, WIRING, CONDUIT, DIMENSIONS, POINTS OF ACCESS AND ALL FIELD CONDITIONS AFFECTING HIS WORK. BEGINNING OF DEMOLITION MEANS THE CONTRACTOR ACCEPTS EXISTING CONDITIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL LAMPS CONTAINING MERCURY IN A LINED LANDFILL IN ACCORDANCE WITH NC GEN STATUTE 309.10M.
- SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED LIGHT FIXTURE LETTER INDICATES FIXTURE TYPE (SEE FUTURE SCHEDULE)		JUNCTION BOX
	RECESSED LIGHT FIXTURE LETTER INDICATES FIXTURE TYPE (SEE FUTURE SCHEDULE)		PANELBOARD, SURFACE OR RECESSED MOUNTED AS SHOWN. SIZE, RATINGS, AND MOUNTING AS INDICATED ON PANEL SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR TESTING AND CLEARANCE IN FRONT OF ELECTRICAL PANEL. SEE NEC TABLE 110.26 WORKING SPACES FOR ADDITIONAL CLEARANCE CONDITIONS.
	24k LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED LETTER INDICATES FIXTURE TYPE (SEE FUTURE SCHEDULE)		TRANSFORMER (TYPE DENOTED)
	4FT SUSPENDED OR SURFACE MOUNTED LETTER INDICATES FIXTURE TYPE (SEE FUTURE SCHEDULE)		DISCONNECT SWITCH, FUSED, HEAVY DUTY, SIZE AS INDICATED ON DRAWINGS W= DISCONNECT SIZE / # = NUMBER OF POLES / # = NEMA RATING HMF = FUSE SIZE
	SURFACE LIGHT FIXTURE LETTER INDICATES FIXTURE TYPE (SEE FUTURE SCHEDULE)		PHOTOCELL
	4FT OR 8FT CHANNEL LIGHT FIXTURE, SUSPENDED OR SURFACE MOUNTED LETTER INDICATES FIXTURE TYPE (SEE FUTURE SCHEDULE)		HALFNOTE SYMBOL INDICATES EXISTING
	EMERGENCY LIGHTING UNIT, 2-HEAD WITH BATTERY BACK-UP, WALL MOUNTED, NOT SWITCHED, INDICATES FIXTURE TYPE (SEE FUTURE SCHEDULE)		DASHED SYMBOL INDICATES REMOVED
	EXIT SIGN/EMERGENCY LIGHTING UNIT, WALL/END MOUNTED, ARROW INDICATES DIRECTION, INDICATES FIXTURE TYPE (SEE FUTURE SCHEDULE)		FLOOR RECEPT. (DUPLEX SHOWN)
	SINGLE POLE SW., 120/277 VAC, 20A, MOUNTED AT 48" AFF UNLESS NOTED OTHERWISE		WALL TELEPHONE W/ INTERCOM OUTLET
	3WAY SW., 120/277 VAC, 20A, MOUNTED AT 48" AFF UNLESS NOTED OTHERWISE		DATA INFORMATION OUTLET (TYPE DENOTED)
	KEYED SW., 120/277 VAC, 20A, MOUNTED AT 48" AFF UNLESS NOTED OTHERWISE		WIRELESS ACCESS POINT. DATA CABLE MUST BE TERMINATED IN JACK IN TILE CEILING. W/ PATCH CABLE MUST BE PROVIDED AND DROPPED BELOW THE CEILING.
	HEAVY DUTY 3-10V DIMMER, 1500W @ 120VAC, 4000W @ 277VAC MOUNTED AT 48" AFF UNLESS NOTED OTHERWISE		INTERCOM SPEAKER (WALL OR CEILING MT.)
	WALL MOUNTED OCCUPANCY SENSOR, SINGLE BUTTON ON/OFF CONTROL, 180° COVERAGE, MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED.		ANTENNA
	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON ON/OFF CONTROL, 180° COVERAGE, ADDITIONAL POWER SUPPLY FOR FAN OPERATION, MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED.		DOOR CONTACTS
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 360° COVERAGE, NPP-16ER, NPP-16-ER POWER PACKS REQUIRED FOR LIGHTING CONTROLS IN OPEN OFFICE AREAS. POWER PACKS SHALL BE MOUNTED ABOVE ACCESSIBLE CEILINGS, MARK CEILING TILE WITH RED DOT TO INDICATE LOCATION. 2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT		CARD READER
	TIMED SW., 3 MIN, 10 MIN, 30 MIN, 120/277 VAC, 20A, MOUNTED AT 48" AFF UNLESS NOTED OTHERWISE		CCTV CAMERA
	WALL MOUNTED EMERGENCY OFF PUSH BUTTON WITH RED MUSHROOM STYLE HEAD, MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED.		KEYED NOTE (SEE SCHEDULE)
	RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 18" AFF UNLESS OTHERWISE NOTED (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)		POWER AND SWITCH LEG
	RECEPTACLE, QUADPLEX, 120VAC, 20A, MOUNTED 18" AFF UNLESS OTHERWISE NOTED (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)		UNSWITCHED LEG
	240 VOLT RECEPT.		

ELECTRICAL ABBREVIATIONS LIST

1P 1 POLE (2P, 3P, 4P, ETC.)	DCP CIRCULATING PUMP	HT HEIGHT	NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	SWBD SWITCHBOARD
A AMPERE	DEPT DEPARTMENT	HV HEATING	SVS SYSTEM	SYN SYMMETRICAL
ACB ABOVE COUNTER OR AIR CONDITIONER	DET DETAIL	HVAC HEATING, VENTILATING AND AIR CONDITIONING	NCBS NON-FUSED SAFETY DISCONNECT SWITCH	TEL TELEPHONE
ACG ABOVE CEILING	DISC DISCONNECT	HWP HYDRONIC WATER PUMP	NCS NOT IN CONTRACT	TER TELEPHONE DATA TERMINAL
ADO AUTOMATIC DOOR OPERATOR	DIST DISTRIBUTION	IL NIGHT LIGHT	NL NIGHT LIGHT	TL TWIST LOCK
AF AMP FRAME	DN DOWN	IC INTER interrupting CAPACITY	N.O. NORMALLY OPEN	TR TAMPER RESISTANT
AFB ABOVE FINISHED FLOOR	DPS DAMPEN	IS ISOLATED GROUND	NPF NORMAL POWER FACTOR	T-STAT THERMOSTAT
AFG ABOVE FINISHED GROUND	DS DOUBLE THROW	INTS ISOLATED GROUND	NTS NOT TO SCALE	TT TELEPHONE TERMINAL
AFI ARC FAULT CIRCUIT INTERRUPTER	DWG DRAWING	INTCAND INCANDESCENT	OH OVERHEAD	TV TELEVISION
AHU AIR HANDLING UNIT	DWO DRAWING	INFRARED INFRARED	OL OVERLOADS	TVTC TELEVISION TERMINAL CABLE
AL ALUMINUM	EC ELECTRICAL CONTRACTOR	INR INTERLOCK WITH	PA PUBLIC ADDRESS	TYP TYPICAL
ALT ALTERNATE	ELEC ELECTRICAL	JBOX JUNCTION BOX	PE PULL BOX OR PUSHBUTTON	UC UNDER COUNTER
AMP AMPERE	ELEV ELEVATOR	KV KILOVOLT	PEM PNEUMATIC ELECTRIC	UE UNDERGROUND ELECTRICAL
AMPL AMPLIFIER	EM EMERGENCY	KVA KILOVOLT-AMPERE	PF POWER FACTOR	US UNDERGROUND
ANNUN ANNUNCIATOR	EMS ENERGY MANAGEMENT SYSTEM	KWH KILOWATT-HOUR	PH PHASE	UH UNIT HEATER
APPROX APPROXIMATELY	EMT ELECTRICAL METALLIC TUBING	LOC LOCATION OR LOCATION	PIV POST INDICATING VALVE	UL UNDERGROUND TELEPHONE
AQSTAT AQUASTAT	EOP EQUIPMENT	LT LIGHT	PNL PANEL	ULV UTILITY VENTILATOR OR ULTRAVIOLET
ARCH ARCHITECT, ARCHITECTURAL	EQIP EQUIPMENT	LTG LIGHTING	PPR PRIMARY PROTECTION	V VOLT
AS AMP SWITCH	EXH EXHAUST	LV LOW VOLTAGE	PROJ PROJECTION	VV VOLT-AMPERES
AT AUTOMATIC	EXP EXPLOSION PROOF	MAX MAXIMUM	PT POTENTIAL TRANSFORMER	VOT VOLT DISPLAY TERMINAL
AUX AUXILIARY	FA FIRE ALARM	MAGS MAGNETIC STARTER	PVC POLYVINYL CHLORIDE (CONDUIT)	VERT VERTICAL
AUTO AUTOMATIC	FABP FIRE ALARM BOOSTER POWER	MCCB MAGNETIC CIRCULAR BREAKER	PWR POWER	VFD VARIABLE FREQUENCY DRIVE
BATT BATTERY	FADP FIRE ALARM CONTROL PANEL	MCC MECHANICAL CONTRACTOR	QUN QUANTITY	W WATT
BOARD BOARD	FAN FAN COIL UNIT	MCB MINI CIRCUIT BREAKER	QNT RECEPTACLE	W/TH WITH
BLDG BUILDING	FAT FUTURE	MCCS MOTOR CONTROL CENTER	REQD REQUIRED	WG WIRE GUARD
BMS BUILDING MANAGEMENT SYSTEM	FLR FLOOR	MDC MAIN DISTRIBUTION CENTER	RCD ROOM	WH WATER HEATER
C CONDUIT	FUS FUSED SAFETY DISCONNECT SWITCH	MFR MANUFACTURER	RSC RIGID STEEL CONDUIT	WID WITHOUT
CAB CABINET	GA GAUGE	MNS MAIN FUSED DISCONNECT SWITCH	RTU ROOF TOP UNIT	WHP WEATHERPROOF
CATV CABLE TELEVISION	GAL GALLON	MC MOTOR	SEC SECONDARY	XFR TRANSFER
CB CIRCUIT BREAKER	GEN GENERATOR	MM MANIFOLD	SC SURFACE CONDUIT	
CCTV CLOSED CIRCUIT TELEVISION	GFP GROUND FAULT CIRCUIT INTERRUPTER	MISC MISCELLANEOUS	SH SHEET	
CIR CIRCUIT	GFI GROUND FAULT PROTECTOR	MLO MAIN LUGS ONLY	SHL SHIMLAR	ANGLE
CLG CEILING	GRD GROUND	MSP MOTOR STARTER PANELBOARD	SPEC SPECIFICATION	AT
COMB COMBINATION	GRS GALVANIZED RIGID STEEL (CONDUIT)	MSBD MAIN SWITCHBOARD	SPR SPEAKER	DELTA
CONN CONNECTION	GYP BD GYPSUM BOARD	MT EMPTY CONDUIT	SS STAINLESS STEEL	#
CONSTR CONSTRUCTION	HOA HANDS-OFF AUTOMATIC SWITCH	MTR MOTOR, MOTORIZED	SSS STOP/START PUSHBUTTONS	PHASE
CONT CONTINUATION OR CONTINUOUS	HORIZ HORIZONTAL	NFC NORMALLY CLOSED	STA STATION	CENTERLINE
CONTR CONTRACTOR	HP HIGH POWER FACTOR	NEC NATIONAL ELECTRICAL CODE	STD STANDARD	L
CONV CONVERTER			SW SWITCH	
CP CIRCULATING PUMP				
CRT CATHODE-RAY TUBE				
CT CURRENT TRANSFORMER				
CUR CENTER				
CUT COPPER				

BECKER
MORGAN
GROUP

ARCHITECTURE PLANNING

North Carolina
3333 Jackie Drive, Suite 120
Wilmington, NC 28403
910.341.7600

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

Railroad Station
250 South Main Street, Suite 109
Newark, DE 19711
302.549.3700

www.beckermorgan.com

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CBHF
Engineers, PLLC

2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266

www.cbhfengineers.com
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FINAL DRAWING
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PROJECT TITLE

WEST
BRUNSWICK
HIGH SCHOOL
CLASSROOM
222
RENOVATION

550 WHITEVILLE ROAD N.W.
SHALLOTTE, NC 28470

DSP # : 100
DPI SCHOOL # : 1167

- 1 EXISTING PANEL: PROTECT PANEL IN PLACE. PROTECT ALL BRANCH CIRCUITS UNLESS LOAD IS SPECIFICALLY NOTED ON PLAN TO BE REMOVED.
- 2 DUPLEX RECEPTACLE: REMOVE RECEPTACLE AND SURFACE MOUNTED BOX. REMOVE SURFACE MOUNT RACEWAY AND CONDUCTORS TO NEAREST POINT OF USE. ALL UPSTREAM AND DOWN STREAM DEVICES ON THIS CIRCUIT MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 3 DUPLEX RECEPTACLE: REMOVE RECEPTACLE AND COVERPLATE. REMOVE CONDUCTORS TO NEAREST POINT OF USE. ALL UPSTREAM AND DOWN STREAM DEVICES ON THIS CIRCUIT MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE UNLESS SPECIFICALLY INDICATED TO BE DEMOLISHED.
- 4 SURFACE RACEWAY: REMOVE RACEWAY. REMOVE CONDUIT AND CONDUCTORS COMPLETE TO SOURCE. LABEL BREAKER AND SPARE. REMOVE ALL SURFACE MOUNTED CONDUIT, SURFACE MOUNTED BOXES AND SUPPORTS.
- 5 UNIT WATER/FAN DISCONNECT: REMOVE DISCONNECT, RACEWAY AND CONDUCTORS BACK TO SOURCE.
- 6 AIR HAND UNIT D.D. DISCONNECT CONDUIT AND CONDUCTORS COMPLETE FROM LIFT COMPLETE TO SOURCE. LABEL BREAKER AS SPARE. REMOVE DISCONNECT SWITCH.
- 7 EXISTING SURFACE MOUNTED JUNCTION MUST REMAIN AND BE PROTECTED DURING DEMOLITION. LIGHT FIXTURE: DISCONNECT LIGHTING CIRCUITS FROM FIXTURE AND PROTECT CIRCUIT FOR FUTURE USE. REMOVE LIGHT FIXTURE AND SURFACE MOUNTED BOX. NEW POINT NOT BEING DEMOLISHED, CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UPSTREAM AND DOWN STREAM DEVICES REMAINING ON CIRCUIT.
- 8 SWITCH: REMOVE SWITCH AND CONDUCTORS COMPLETE TO FIXTURE. CONDUIT DOWN WALL AND FLUSH MOUNTED SWITCH BOX SHALL REMAIN FOR LOW VOLTAGE FIXTURE CONTROL. CABLE REMOVE SWITCH AND CONDUCTORS COMPLETE TO FIXTURE. CONDUIT DOWN WALL AND FLUSH MOUNTED SWITCH BOX SHALL REMAIN FOR FUTURE USE.

ARCHITECTURE
P L A N N I N GNorth Carolina

3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

Maryland

312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware

309 S Governors Ave
Dover, DE 19904
302 734 7950

Rittenhouse Station
250 South Main Street, Suite 109
Newark, DE 19711

Newark, DE 19711
302.369.3700
www.beckermorgan.com

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CBHF
Engineers, PLLC

2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfengineers.com
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PROJECT TITLE

WEST
BRUNSWICK
HIGH SCHOOL
CLASSROOM
222
RENOVATION

550 WHITEVILLE ROAD N.W.
SHALLOTTE, NC 28470

DSP #: 100
DPI SCHOOL #: 1167

SHEET TITLE

ELECTRICAL DEMOLITION PLANS

[illegible]

PROJECT NO:	2019082.00
DATE:	10.14.2019
SCALE:	1/8" = 1'-0"
DRAWN BY: HGH	PROJ MGR: WAC

ED101

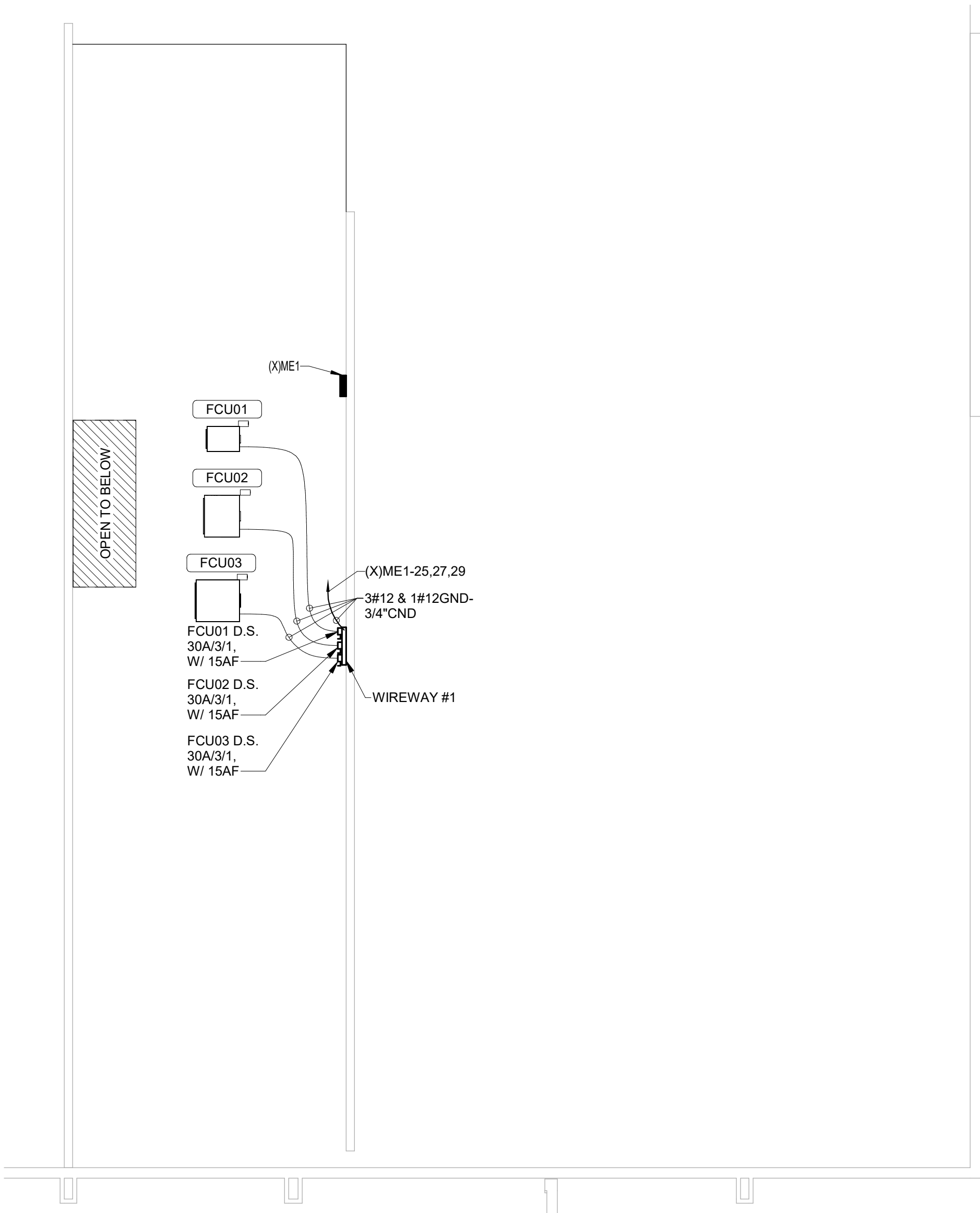
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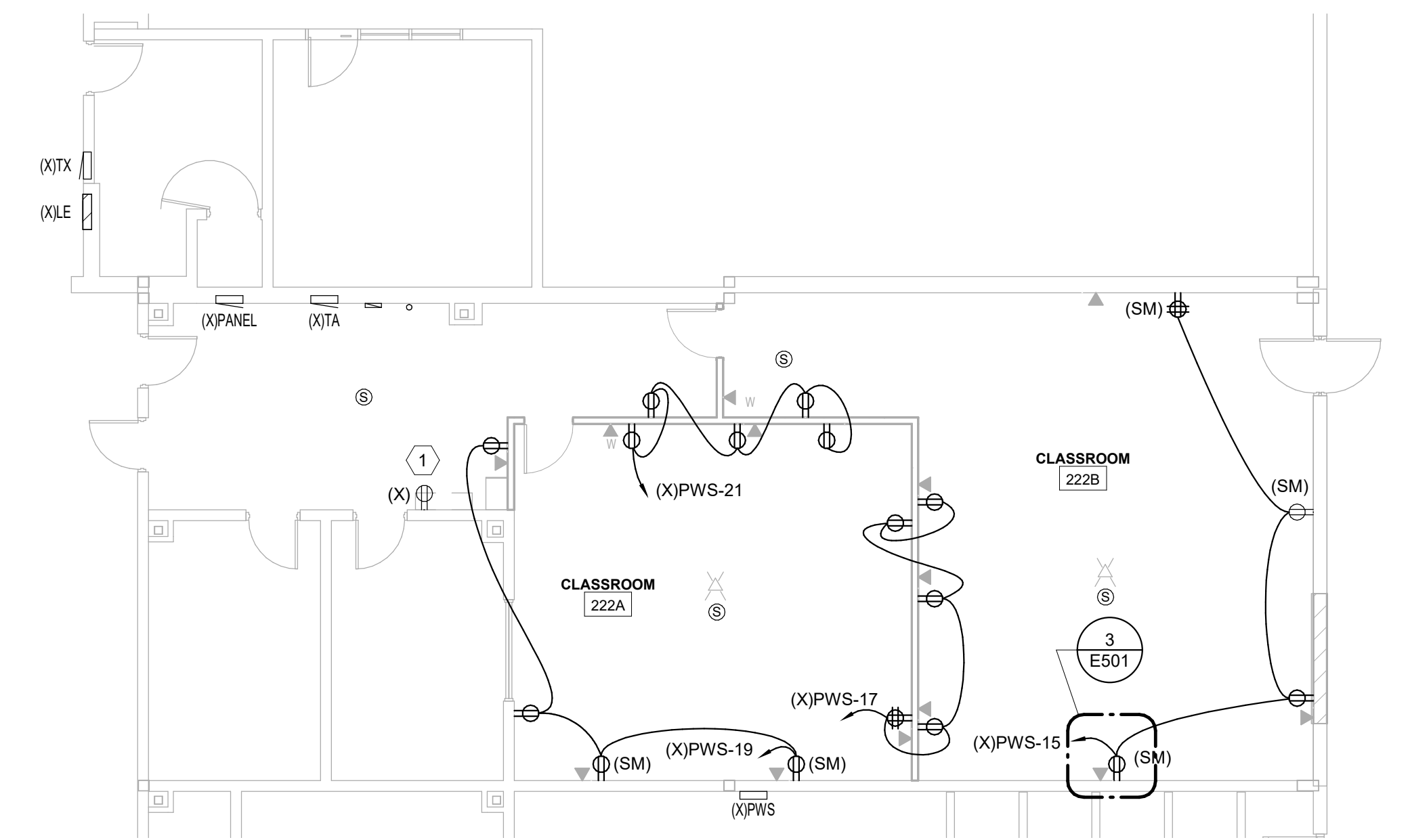
Branch Panel: (X)ME1										
Location:				Volts: 480Y/277				A.I.C. Rating: 10,000 AMPS SYMMETRICAL		
Supply From:				Phases: 3				Mains Type: MAIN CB		
Mounting: SURFACE				Wires: 4				Mains Rating: 100.0 A		
Enclosure: NEMA1								MCB Rating: 100.0 A		
Notes:										
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				2105... 942 VA						2
3	(X)AHU #10	15.0 A	3		2105... 942 VA				(X)AHU #14	4
5						2105... 942 VA				6
7				942 VA 942 VA						8
9	(X)AHU #11	15.0 A	3		942 VA 942 VA				(X)AHU #15	10
11						942 VA 942 VA				12
13				942 VA 942 VA						14
15	(X)AHU #12	15.0 A	3		942 VA 942 VA				(X)AHU #16	16
17						942 VA 942 VA				18
19				831 VA 831 VA						20
21	(X)AHU #13	15.0 A	3		831 VA 831 VA				(X)AHU #17	22
23						831 VA 831 VA				24
25				1745... 0 VA			--	--	SPACE	26
27	WIREWAY #1 (FCU01, 02 & 03)	20.0 A	3		1745... 0 VA		--	--	SPACE	28
29						1745... 0 VA	--	--	SPACE	30
Total Load:				10222 VA	10222 VA	10222 VA				
Total Amps:				36.9 A	36.9 A	36.9 A				
Legend:										
Load Classification				Connected Load	Demand Factor	Estimated Demand	Panel Totals			
HVAC				5236 VA	100.00%	5236 VA				
Spare				25431 VA	100.00%	25431 VA	Total Conn. Load: 30667 VA			
							Total Est. Demand: 30667 VA			
							Total Conn.: 36.9 A			
							Total Est. Demand: 36.9 A			
Notes:										

Branch Panel: (X)PWS											
Location:				Volts: 208Y/120				A.I.C. Rating: 10,000 AMPS SYMMETRICAL			
Supply From:				Phases: 3				Mains Type: MAIN CB			
Mounting: SURFACE				Wires: 4				Mains Rating: 150.0 A			
Enclosure: NEMA1								MCB Rating: 150.0 A			
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	(X)RCP RM 272	50.0 A	2	0 VA	0 VA			2	50.0 A (X)RCP RM 272	2	
3					0 VA	0 VA				4	
5	(X)BAND SAW	50.0 A	2	0 VA	0 VA		0 VA	0 VA		6	
7									50.0 A (X)RCP RM 272	8	
9	(X)RCP: 272	50.0 A	2		0 VA	0 VA		2	50.0 A (X)RCP RM 272	10	
11							0 VA	0 VA		12	
13	(X)GRINDER	30.0 A	1	0 VA	0 VA			1	20.0 A (X)RCP	14	
15	RCPTS. C.R. 223B	20.0 A	1		900 VA	0 VA		1	20.0 A (X)RCP	16	
17	RCPTS. C.R. 222A, 222B	20.0 A	1				1080...	0 VA	1	20.0 A (X)RCP	18
19	RCPTS. C.R. 222	20.0 A	1	720 VA	0 VA			--	--	SPACE	20
21	RCPTS. C.R. 222A, 222B	20.0 A	1		900 VA	0 VA		--	--	SPACE	22
23								0 VA	--	SPACE	24
25	SPACE	--	--	0 VA	0 VA			--	--	SPACE	26
27	SPACE	--	--		0 VA	0 VA		--	--	SPACE	28
Total Load:				720 VA	1800 VA	1080 VA					
Total Amps:				6.0 A	15.5 A	9.5 A					
Legend:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
RCPT		3600 VA		100.00%		3600 VA					
								Total Conn. Load: 3600 VA			
								Total Est. Demand: 3600 VA			
								Total Conn.: 10.0 A			
								Total Est. Demand: 10.0 A			
Notes:											
1. PROVIDE BREAKER INDICATED, BRKR MUST MATCH PANEL AIC RATING.											

KEYNOTES	
1	RECEPTACLE: PROVIDE RECEPTACLE AND STAINLESS STEEL COVERPLATE. CONNECT TO EXISTING CIRCUIT WITH CONDUIT AND CONDUCTORS PROTECTED DURING DEMOLITION.

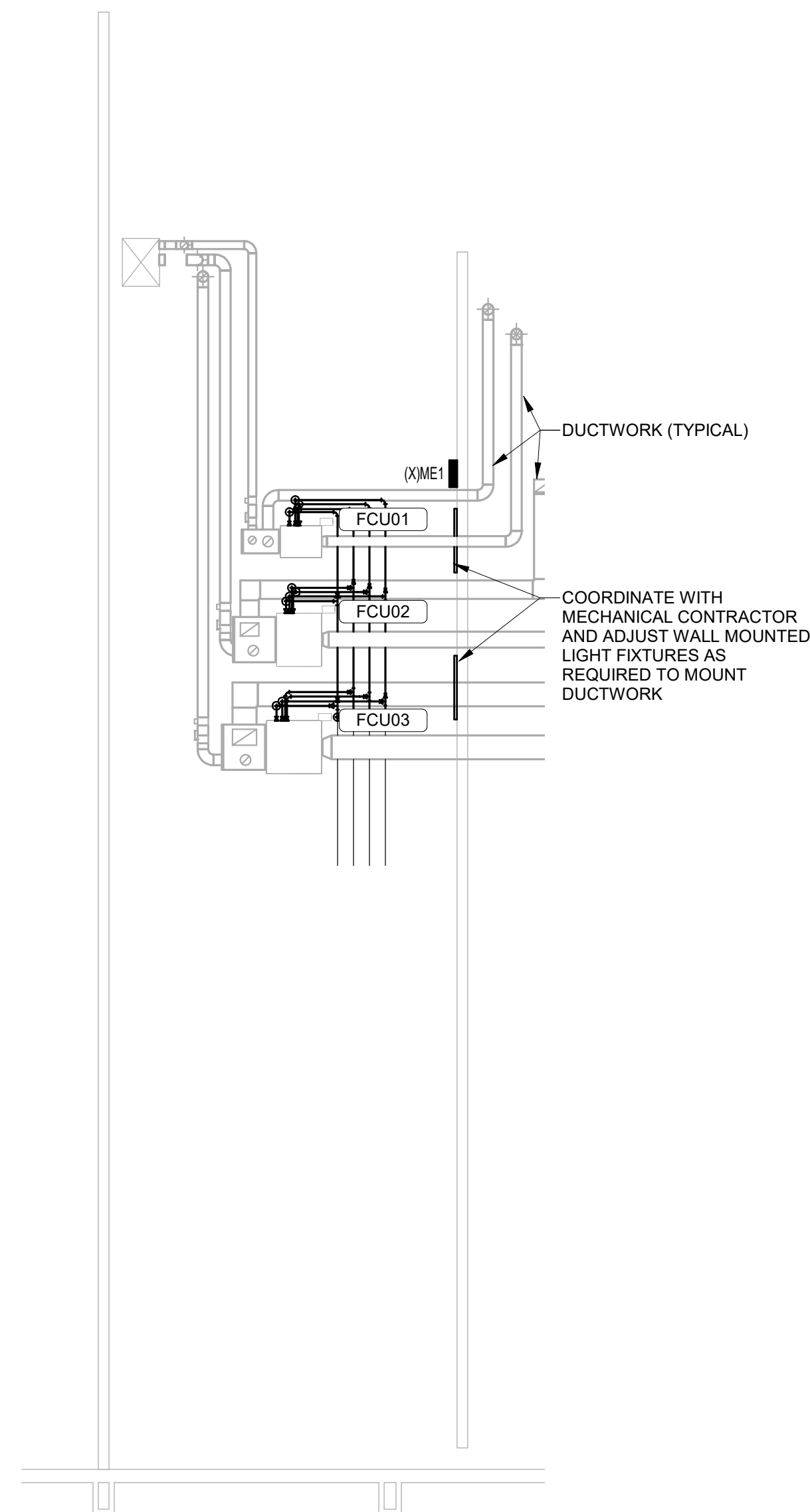


3 CLASSROOM RENOVATION MEZZANINE PLAN - POWER
SCALE: 1/8" = 1'-0"

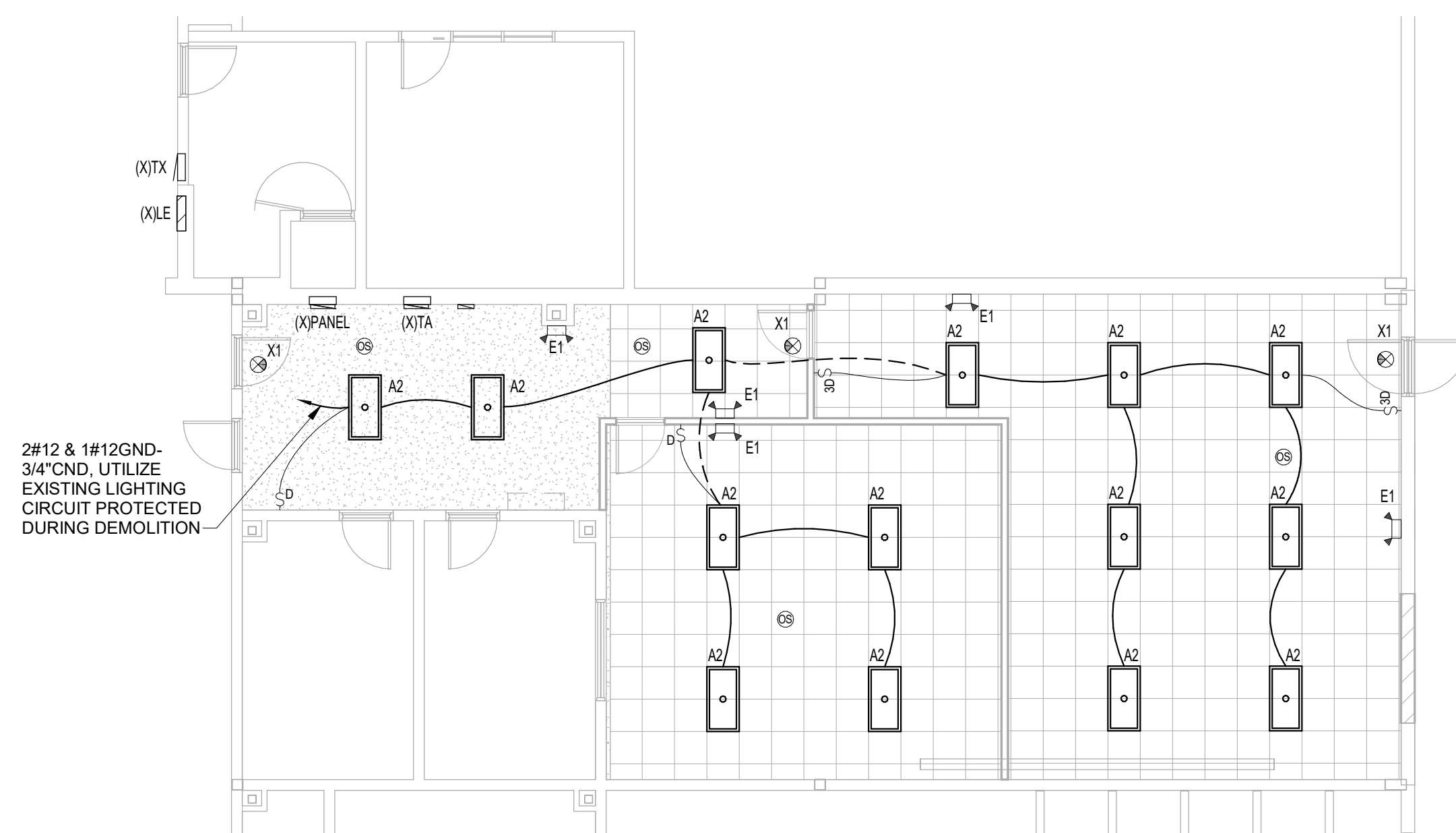


<h1 style="margin: 0;">2018 APPENDIX B BUILDING CODE SUMMARY</h1> <h2 style="margin: 0;">ELECTRICAL SUMMARY</h2> <h3 style="margin: 0;">ELECTRICAL SYSTEMS AND EQUIPMENT</h3>				
<hr/>				
METHOD OF COMPLIANCE:				
ENERGY CODE:	<input checked="" type="checkbox"/>	PRESCRIPTIVE	<input type="checkbox"/>	PERFORMANCE
ASHRAE 90.1:	<input type="checkbox"/>	PRESCRIPTIVE	<input type="checkbox"/>	PERFORMANCE
<hr/>				
LIGHTING SCHEDULE (EACH FIXTURE TYPE)				
LAMP TYPE REQUIRED IN FIXTURE: SEE FIXTURE SCHEDULE				
NUMBER OF LAMPS IN FIXTURE: SEE FIXTURE SCHEDULE				
BALLAST TYPE USED IN THE FIXTURE: SEE FIXTURE SCHEDULE				
NUMBER OF BALLASTS IN FIXTURE: SEE FIXTURE SCHEDULE				
TOTAL WATTAGE PER FIXTURE: SEE FIXTURE SCHEDULE				
<hr/>				
TOTAL INTERIOR WATTAGE: (WHOLE BUILDING OR SPACE BY SPACE)				
ALLOWED =	1,684 WATTS			
ADDITIONAL 10% =	1,516 WATTS			
SPECIFIED =	714 WATTS			
<hr/>				
EXTERIOR ALLOWANCE:				
(TRADEABLE SURFACES)				
ALLOWED =	N/A WATTS			
SPECIFIED =	N/A WATTS			
<hr/>				
(NON-TRADEABLE SURFACES:)				
ALLOWED =	N/A WATTS			
SPECIFIED =	N/A WATTS			
<hr/>				
ADDITIONAL PRESCRIPTIVE COMPLIANCE				
<input type="checkbox"/>	506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT			
<input checked="" type="checkbox"/>	506.2.2 REDUCED LIGHTING POWER DENSITY			
<input type="checkbox"/>	506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS			
<input type="checkbox"/>	506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING			
<input type="checkbox"/>	506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY			
<input type="checkbox"/>	506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS			

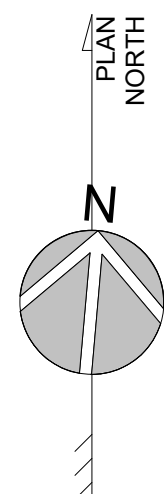
MARK	DESCRIPTION	MANUFACTURER/SERIES	NOM. SIZE	TEMP(°K)	LAMPS	VOLTS	DELIVERED LUMENS	WATTS	LENS	COLOR	MOUNTING HEIGHT	BALLAST/ DRIVER	REMARKS											
A2	2X4 LAY-IN LED TROFFER	LITHONIA COLUMBIA DAY-BRITE	2x4'	3500	LED	MOVOLT	5400	51	A19 ACRYLIC	WHITE	RECESSED LAY-IN	LED DRIVER DIMMING	1											
E1	2-HEAD EMERGENCY LIGHT	EELP EM16-E-LP ISOLITE ELP-12-S4-2-TM-W9 EMERG-HLITE 12PRM0M2MG	12"Wx5.5"Hx6"D		LED	MOVOLT		12		WHITE	WALL MOUNTED 7'-6" AFF													
X1	EXIT SIGN, SINGLE FACE	LITHONIA EXR LED EL M6 ISOLITE ELT-EM-R-1W-BA-SC-UC EMERG-HLITE L9NX42NRWUA	12"Wx8"Hx2"D		LED	MOVOLT		2	RED	WHITE	SURFACE CEILING / 7'-6" AFF WHEN WALL MOUNTED		8											
REMARKS:																								
1. 0-10V DIMMING 1%		4. 50% DIMMING		7. FINAL COLOR SELECTION BY ARCHITECT																				
2. DAMP LOCATION		5. LED REQUIRED SURGE PROTECTION		8. 90 MIN BATTERY BACK-UP.																				
3. WET LOCATION		6. VERIFY FINAL MOUNTING HEIGHT WITH ARCHITECT		9. INTEGRAL PHOTOCELL																				
GENERAL NOTES:																								
A. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.																								
B. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.																								
C. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO THE LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.																								
D. ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.																								
E. FIXTURES TO BE RE-STAGED IN CEILING, INDICATE ON THE ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH THE CEILING SURFACE, SHALL BE IC RATED BY MANUFACTURER.																								
F. LIGHTING FIXTURES SHALL MEET THE AESTHETICS, DESCRIPTION AND SPECIFICATIONS, SUBSTITUTIONS SHALL INCLUDE PT. PY. CALCULATIONS.																								
G. LIGHTING FIXTURES, AS SPECIFIED, HAVE BEEN SO SELECTED TO ACHIEVE REQUIRED/DESIRED FOOTCANDLE LEVELS IN THEIR RESPECTIVE AREA. HENCE SPECIFIC FIXTURE CHARACTERISTICS WHICH MAY CREATE PARTICULAR ILLUMINATION RESULTS ARE ESSENTIAL. ANY DEVIATIONS FROM SPECIFIED FIXTURES SHALL DEEM THE SUBMITTING AGENT AND CONTRACTORS RESPONSIBLE IN PROVIDING SUCH DEVIATION FOR THE ARCHITECT/ENGINEER AND OWNER TO MAKE AN INFORMED DECISION.																								
H. SUBSTITUTION APPROVED BY THE ENGINEER PROVIDED THAT IT IS ACCEPTABLE AS LONG AS THEY ARE EQUAL TO THE FIXTURE SPECIFIED UNLESS OTHERWISE NOTED. THIS INCLUDES LENS, COLORS, REFLECTORS, PHOTOMETRICS, HOUSING MATERIAL, FINISHES, ETC. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER WITH CUT SHEETS FOR APPROVAL.																								
I. LISTED SEPARATELY SO THE ARCHITECT, ENGINEER AND OWNER CAN MAKE AN INFORMED DECISION. SUBSTITUTE FIXTURES SHALL BE PRICED WITH THE SPECIFIED FIXTURE AND ALL 4' LED LAMPS SHALL BE 3500 K. OTHER LAMPS SHALL BE AS SCHEDULED.																								
J. ANY FIXTURE WITH THE TEXT "NL ADJACENT TO IT SHALL INDICATE THAT THAT FIXTURE IS A NIGHT LIGHT (24HR LIGHT). THE FIXTURE SHALL BE CONNECTED TO THE UNSWITCHED HOT LEG OF THE INDICATED CIRCUIT.																								
K. ACRYLIC PRISMATIC LENSES SHALL BE 0.150" NOMINAL MINIMUM THICKNESS.																								
L. ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSBC STANDARDS AND HAVE AUTOMATIC TESTING DEVICES.																								
M. LED EMERGENCY BATTERY SHALL PROVIDE 1400 MINIMUM LUMENS OUTPUT FROM 1 LAMP FOR 90 MINUTES MINIMUM.																								
N. LED MODULES SHALL BE REPLACEABLE.																								
O. PROVIDE MANUFACTURER INSTALLED NEC 2014 ARTICLE 410.130 (G) COMPLIANT DISCONNECTING MEANS FOR ALL APPLICABLE FIXTURES.																								
P. SEE SPECIFICATIONS SECTIONS 265100 AND 265200 FOR ADDITIONAL REQUIREMENTS.																								
Q. ELECTRICAL CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL LIGHTING FIXTURES FROM ARCHITECT/OWNER PRIOR TO PURCHASE AND ROUGH-IN.																								

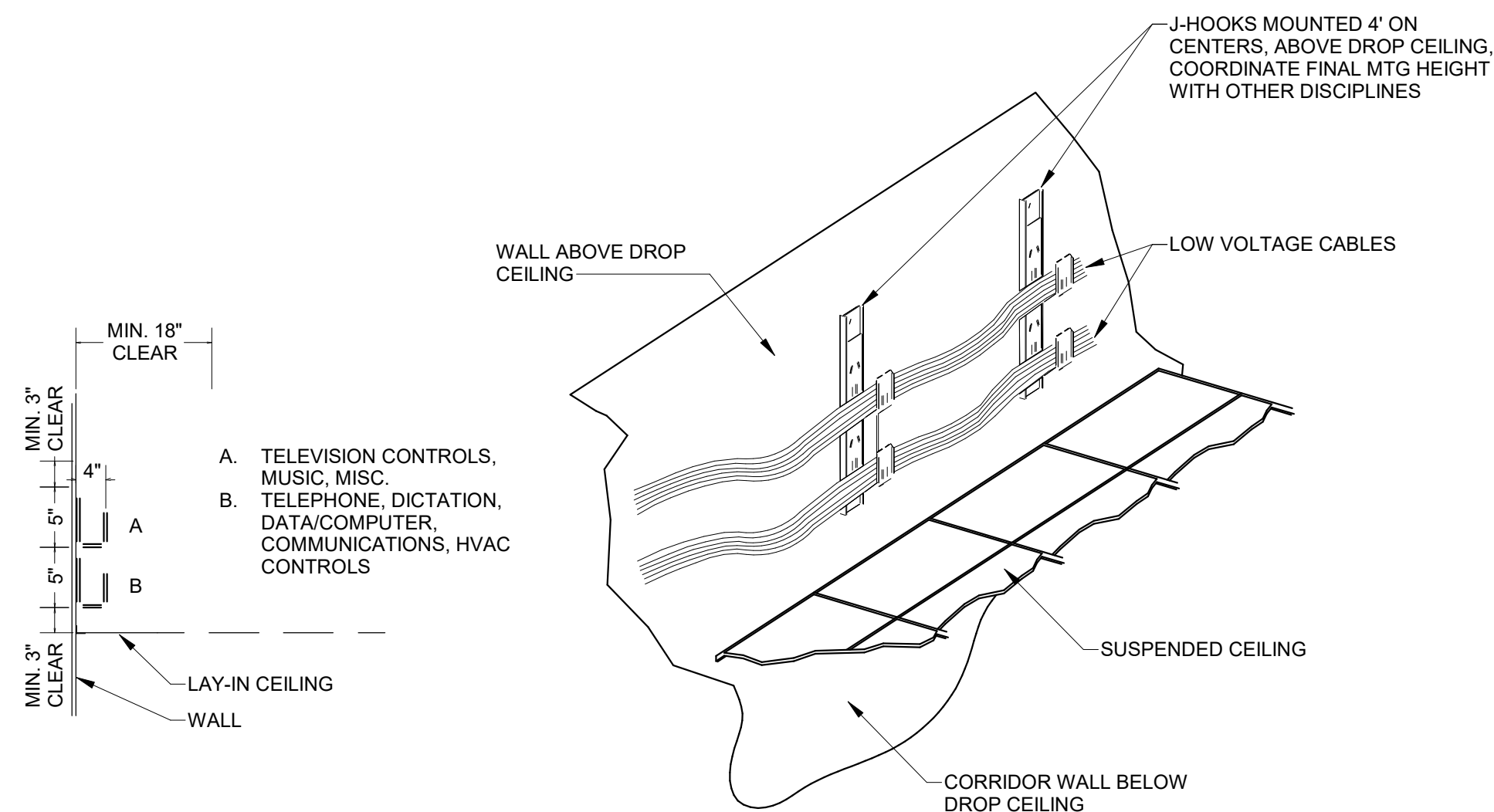


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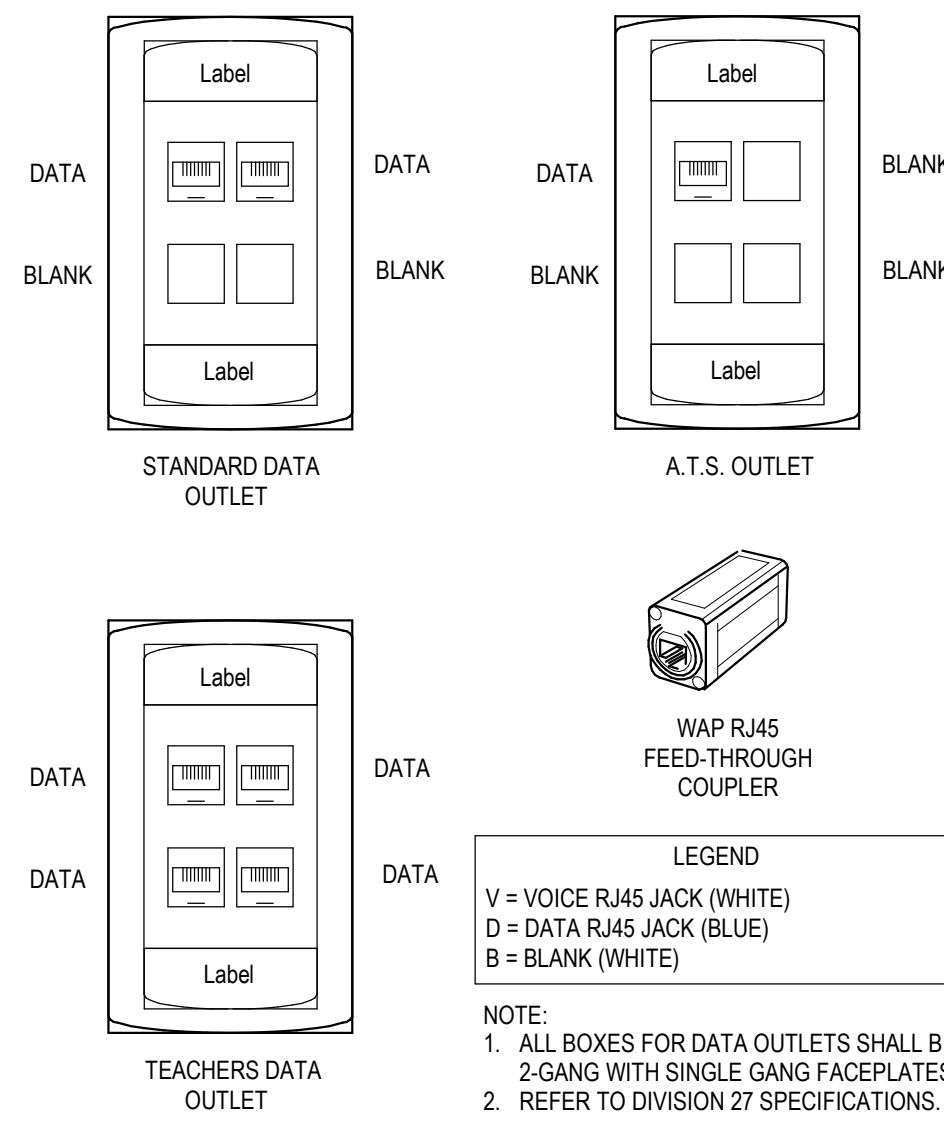


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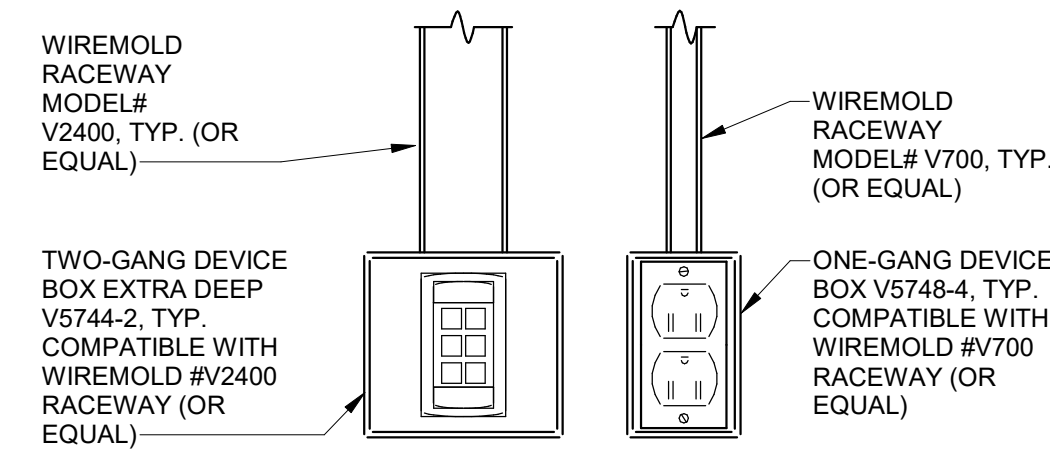




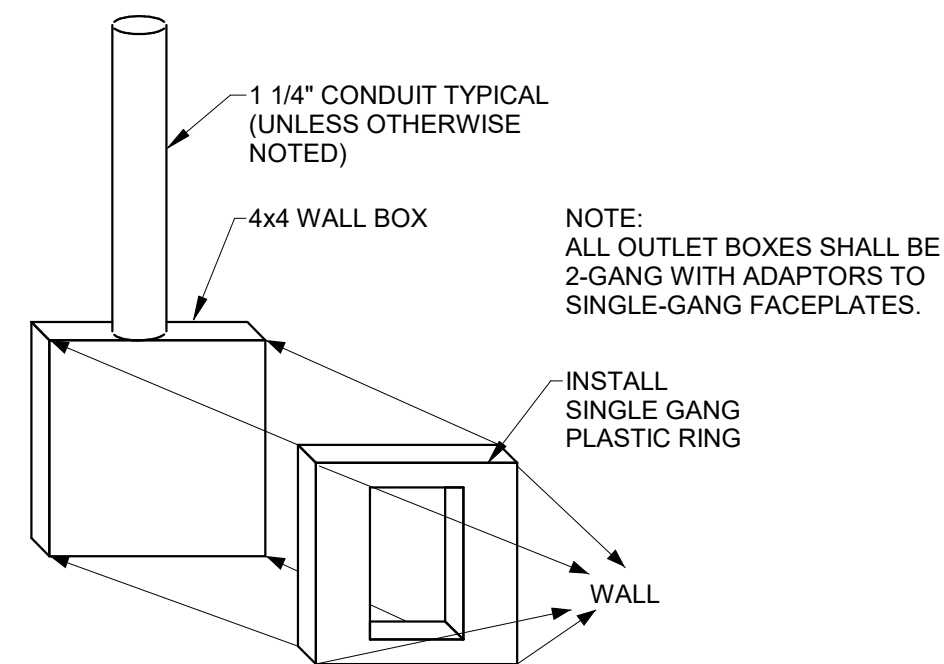
1 J-HOOK DETAIL
NO SCALE



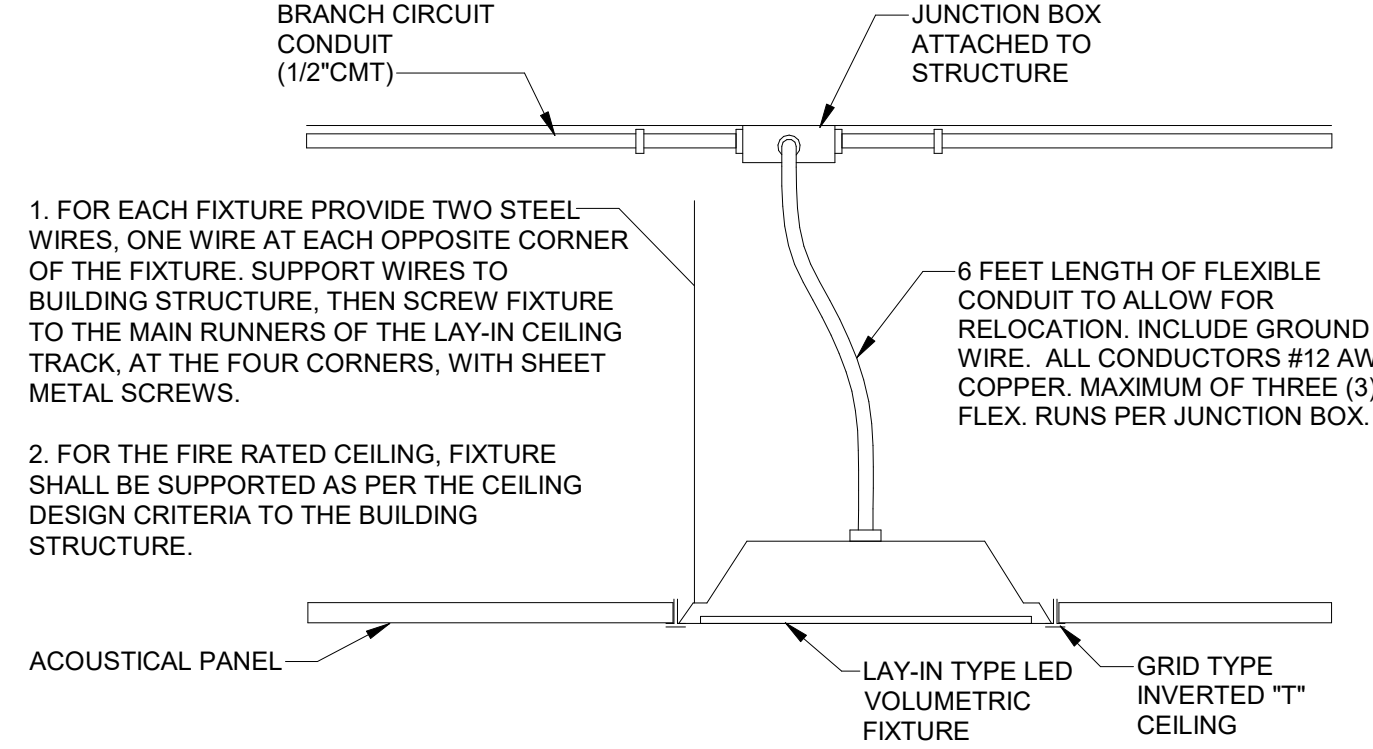
2 DATA FACE PLATE DETAIL
NO SCALE



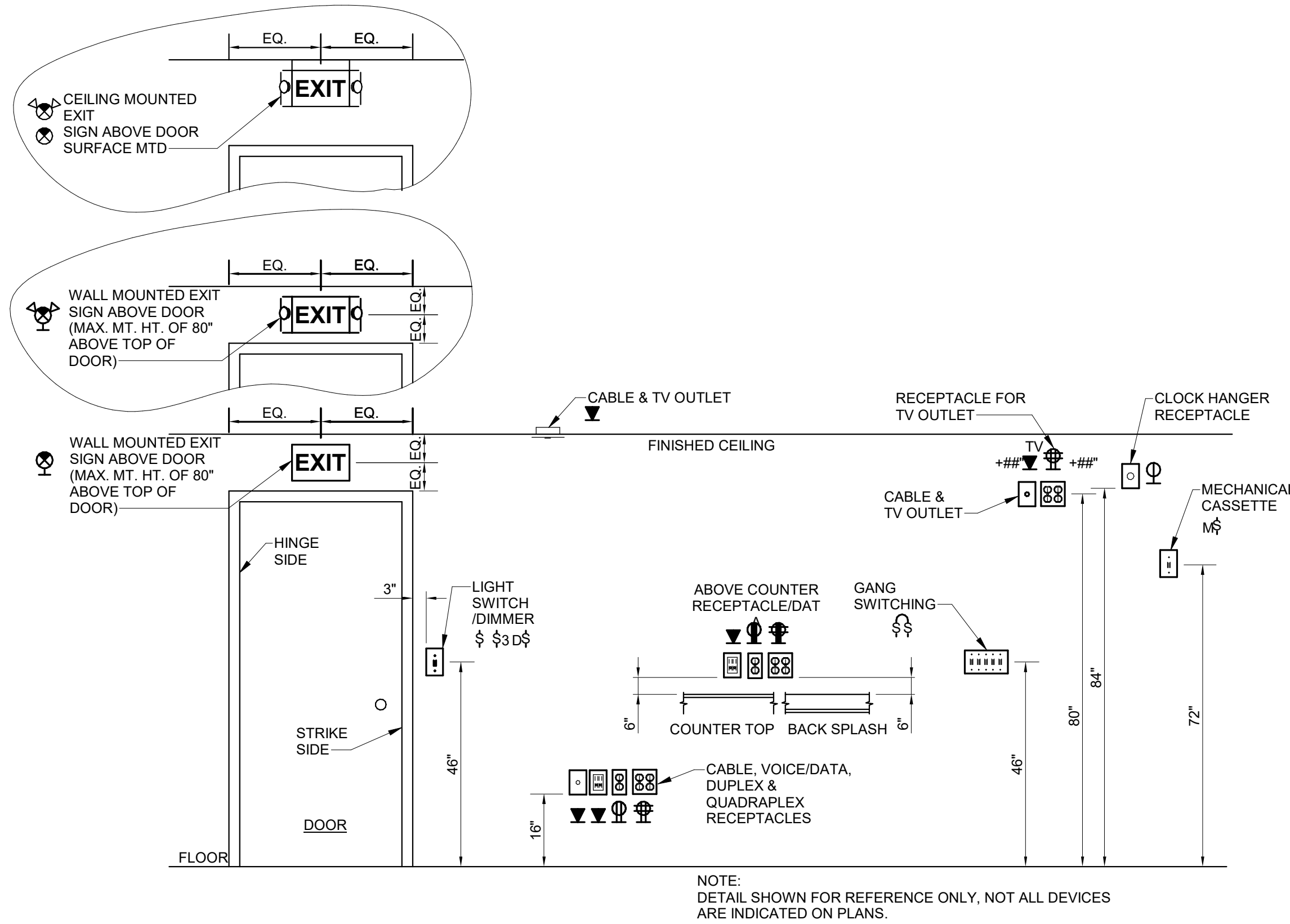
3 SURFACE OUTLET DETAIL
NO SCALE



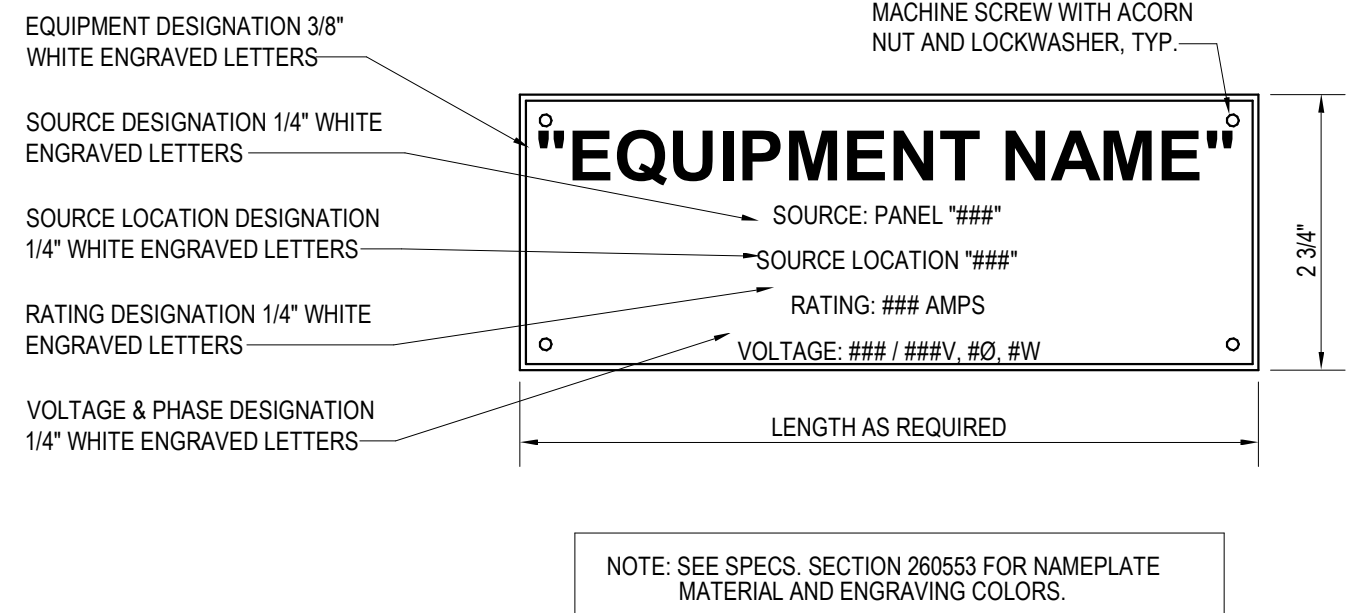
4 OUTLET PATHWAY DETAIL
NO SCALE



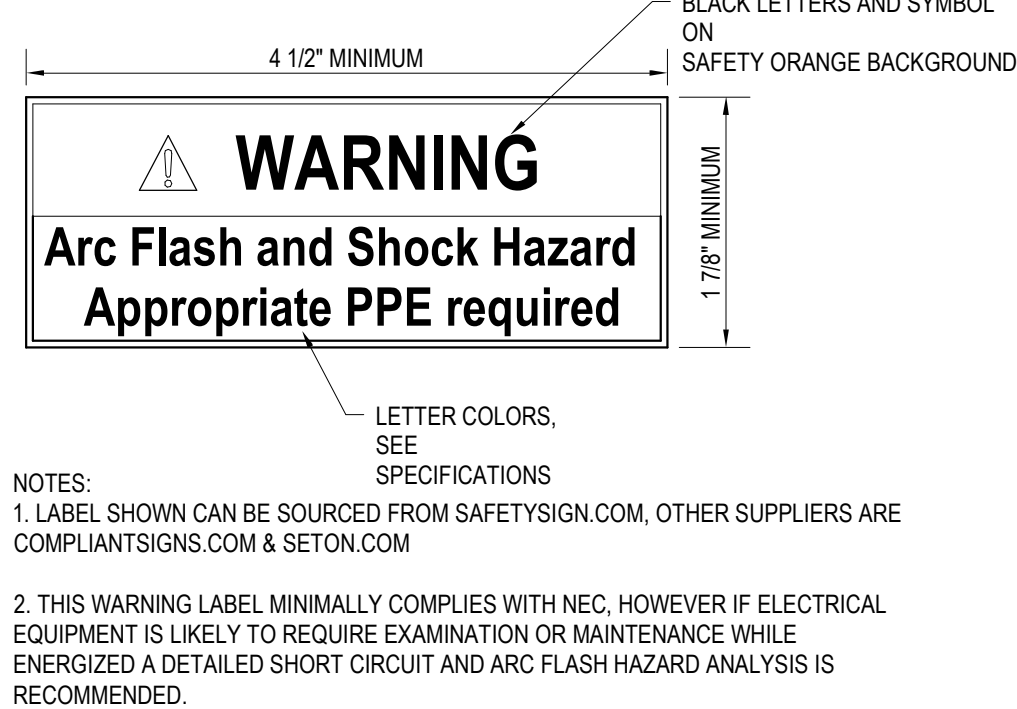
5 LIGHTING FIXTURE MOUNTING DETAIL
NO SCALE



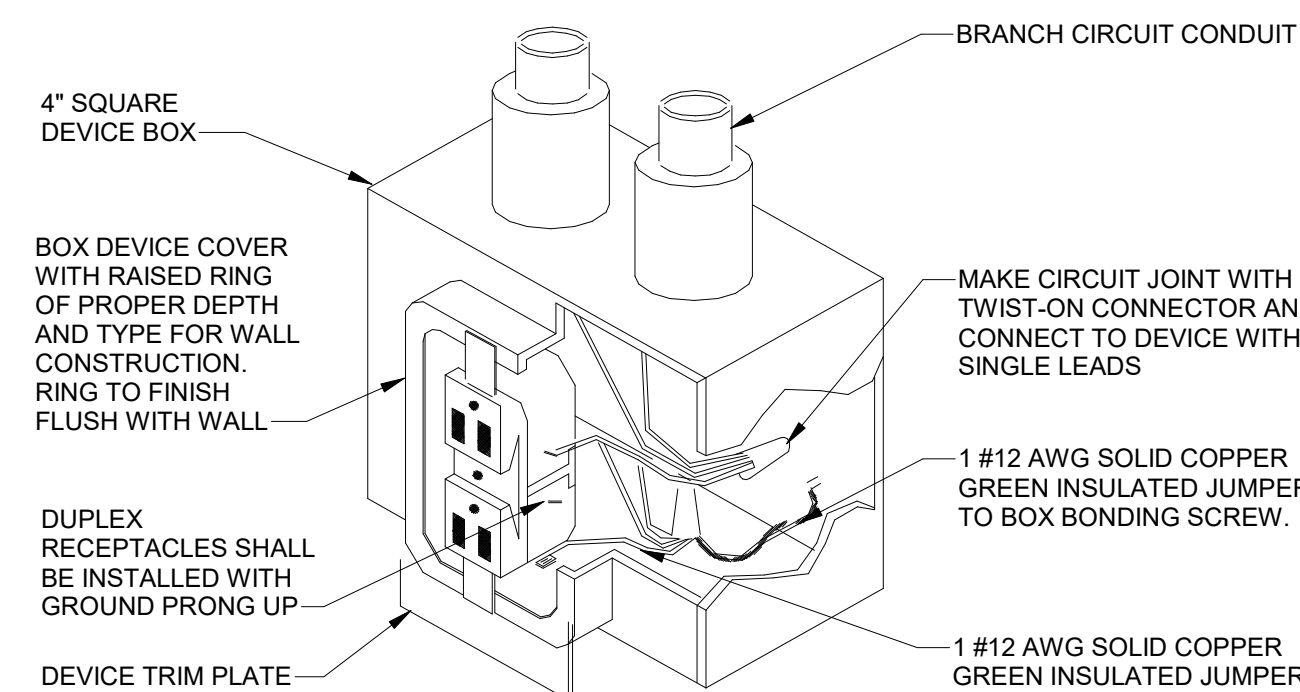
6 ELECTRICAL DEVICES MOUNTING DETAIL
NO SCALE



7 NAME PLATE - EQUIPMENT
NO SCALE



8 NAME PLATE - WARNING
NO SCALE



9 RECEPTACLE GROUNDING DETAIL
NO SCALE

MANUAL FIRE ALARM SYSTEM NOTES

1. AS A MINIMUM THE FIRE ALARM SYSTEM SHALL INCLUDE DETECTORS, PULL STATIONS, HORN/STROBES AND STROBES WITH FIRE RATED CABLE. THE FIRE ALARM SYSTEM SHALL MEET NFPA REQUIREMENTS, THE NATIONAL ELECTRICAL CODE, THE STATE CODES, AND THE LOCAL BUILDING CODES.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CABLE, MATERIALS AND EQUIPMENT AS SHOWN ON THE DRAWINGS/OR HEREIN SPECIFIED. ALL SYSTEM COMPONENTS SPECIFIED HEREIN AS WELL AS THEIR INSTALLATION, SHALL COMPLY WITH APPLICABLE STANDARDS OF THE NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION ASSOCIATION, AND LOCAL CODES HAVING AUTHORITY. ALL EQUIPMENT SHALL BE UL LISTED FOR FIRE ALARM SYSTEM USE.
3. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INSTALLED AND CONNECTED UNDER THE DIRECTION AND SUPERVISION OF A MANUFACTURER'S REPRESENTATIVE. UPON COMPLETION OF INSTALLATION, THE MANUFACTURER'S REPRESENTATIVE SHALL PERFORM ALL OPERATIONAL TESTS AND ADJUSTMENTS AND CERTIFY IN WRITING THAT THE SYSTEM IS PROPERLY INSTALLED AND FUNCTIONS AS SPECIFIED.
4. ALL WIRING SHALL BE SYSTEM OR A LISTED FIRE RATED CABLE AND COLOR CODED TO ALLOW EASE OF IDENTIFICATION OF THE DIFFERENT CIRCUITRY REQUIRED FOR THE SYSTEM. NO CIRCUIT SHALL CHANGE COLOR AT ANY POINT AND TO END.
5. THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL PROVIDE SUPERVISION OF FINAL SYSTEM PANEL CONNECTIONS, PERFORM A COMPLETE FUNCTIONAL TEST OF THE SYSTEM, AND A WRITTEN REPORT TO THE CONTRACTOR ATTESTING THE PROPER OPERATION OF THE COMPLETED SYSTEM.
6. ALL DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM.
7. ALL WIRING SHALL BE INSTALLED IN COMPLIANCE WITH N.E.C., NFPA 72, ALL STATE AND LOCAL REQUIREMENTS AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. SLEEVES AND SEAL ALL PENETRATIONS THROUGH FIRE WALLS.
9. WIRING SHALL BE A MINIMUM OF NO. 14 AWG UNLESS OTHERWISE NOTED.
10. THE SMOKE DUCT DETECTOR SHALL BE FURNISHED AND TERMINATED BY THE FIRE ALARM CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR.
11. SHOP DRAWINGS MUST BE SUBMITTED BY THE FIRE ALARM CONTRACTOR COMPLYING WITH THE FIRE ALARM PLAN REVIEW REQUIREMENTS POLICY. THESE DRAWINGS DO NOT CONSTITUTE APPROVAL AND MAY CHANGE AFTER A FULL REVIEW BY THE FIRE DEPT. HAVING JURISDICTION. A SEPARATE PERMIT MUST BE OBTAINED PRIOR TO INSTALLATION.
12. IN CORRIDORS WHERE MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES ARE IN ANY FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION.
13. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR MODULES TO SHUTDOWN HVAC EQUIPMENT DURING ALARM CONDITION.
14. ALL FIRE ALARM WORK AND DEVICES SHALL BE INSTALLED AND TERMINATED BY A NICET LEVEL 3 FIRE ALARM TECHNICIAN.
15. IN THE EVENT OF AN ALARM THERE SHALL BE A "30-OBAS" SHUT DOWN OF ALL AIR HANDLING EQUIPMENT.

FIRE ALARM SYSTEM CONTROL MATRIX

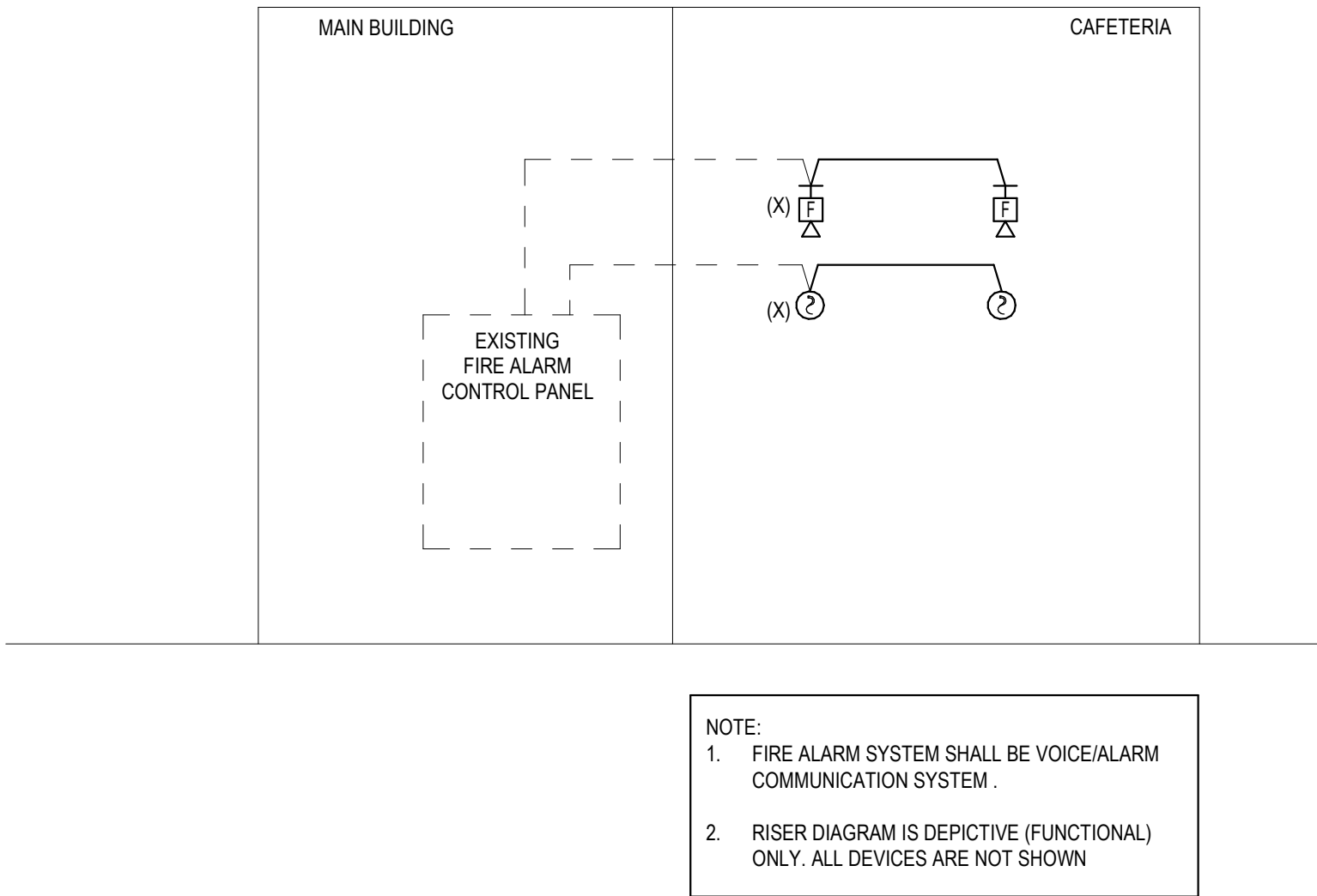
SYSTEM INPUTS	SYSTEM OUTPUTS											
	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE NOTIFICATION APPLIANCES	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ALARM SIGNAL TO MONITORING SERVICE	SUPERVISORY SIGNAL TO MONITORING SERVICE	TROUBLE SIGNAL TO MONITORING SERVICE	DISP. PRINTOUT CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO CENTRAL STATION	RELEASE IMMEDIATELY HELD DOORS	RECALL ELEVATORS TO PRIMARY RECALL FLOOR	ACTIVATE FIRE FIGHT SIGNAL
SMOKE DETECTORS	X	X		X								X
HEAT DETECTORS		X		X				X	X	X		X
DUCT MOUNTED SMOKE DETECTORS	X	X	X					X	X	X		X
MANUAL FIRE ALARM PULL STATION	X	X		X				X	X	X		X

NOTES:

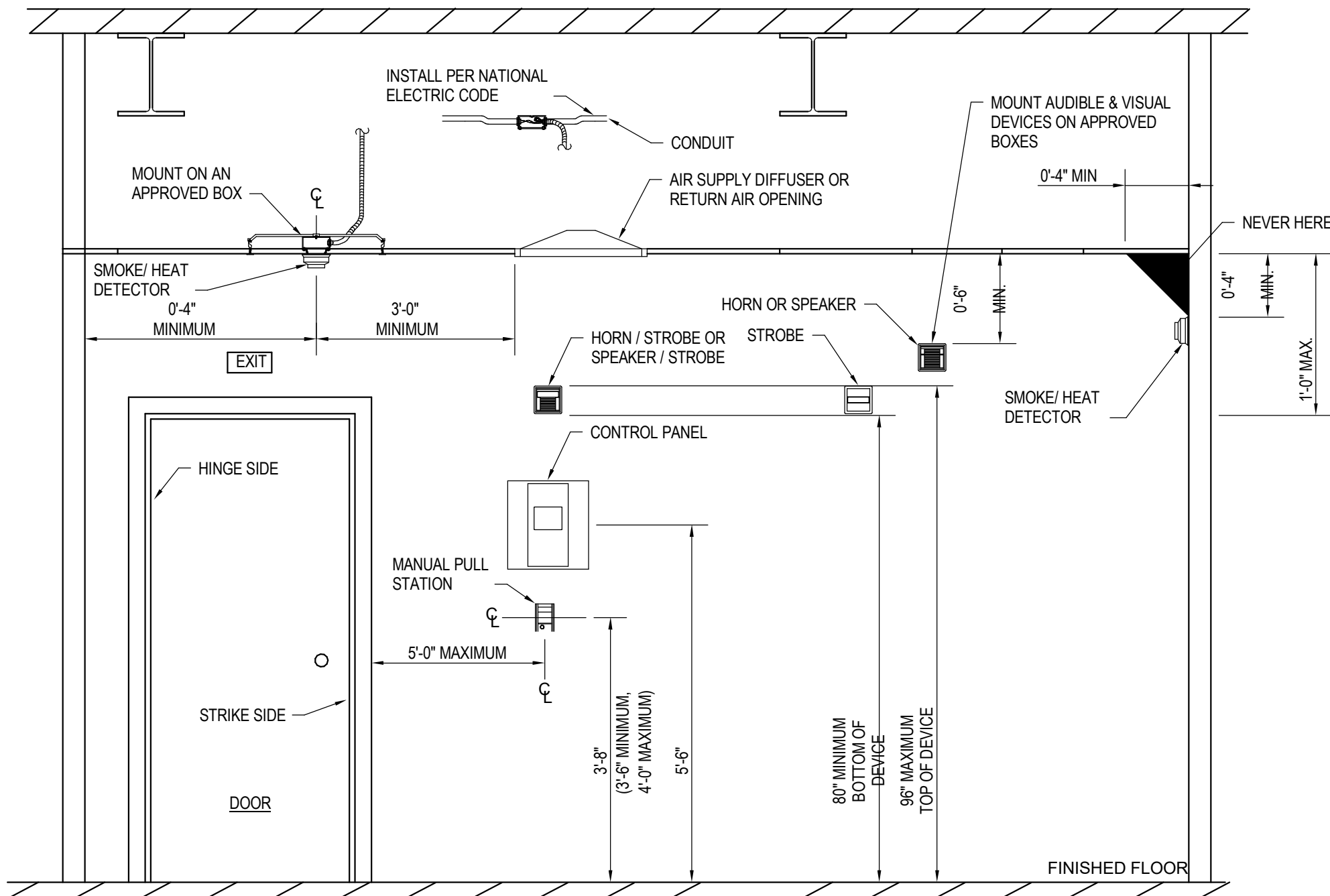
1. ONLY AFTER LOSS OF POWER FOR + 8 HOURS.
2. ELEVATOR INPUTS AND OUTPUTS ARE TYPICAL FOR EACH ELEVATOR.
3. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER DEVICE LOCATIONS.
4. REFER TO MECHANICAL DRAWINGS FOR DUCT MOUNTED SMOKE DETECTOR LOCATIONS.
5. TYPICAL QUANTITIES OF DEVICES ARE NOT SHOWN, SEE FIRE PROTECTION DRAWINGS FOR QUANTITIES AND LOCATIONS.

FIRE ALARM SYMBOL LEGEND

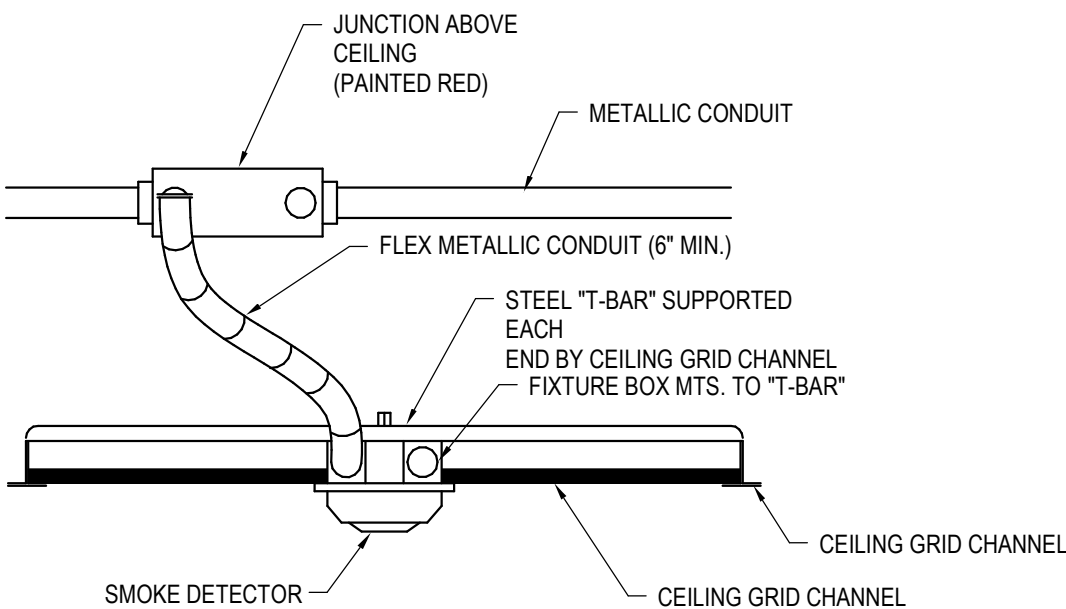
SYMBOL	DESCRIPTION
(X)FACP	EXISTING FIRE ALARM CONTROL PANEL
□	EXISTING FIRE ALARM REMOTE ANNUNCIATOR
H-F-H	FIRE ALARM HORN/STROBE DEVICE, 80" AFF, 15cd INDICATES CANDELA RATING
Ⓢ	SMOKE DETECTOR, CEILING MOUNTED
Ⓢ	EXISTING DUCT SMOKE DETECTOR
H-F-P	FIRE ALARM MANUAL STATION, 48" AFF
□	F.A. INDIVIDUAL ADDRESSABLE ISOLATION MODULE
(X)	INDICATES EXISTING EQUIPMENT
①	KEYED NOTE (SEE SCHEDULE)



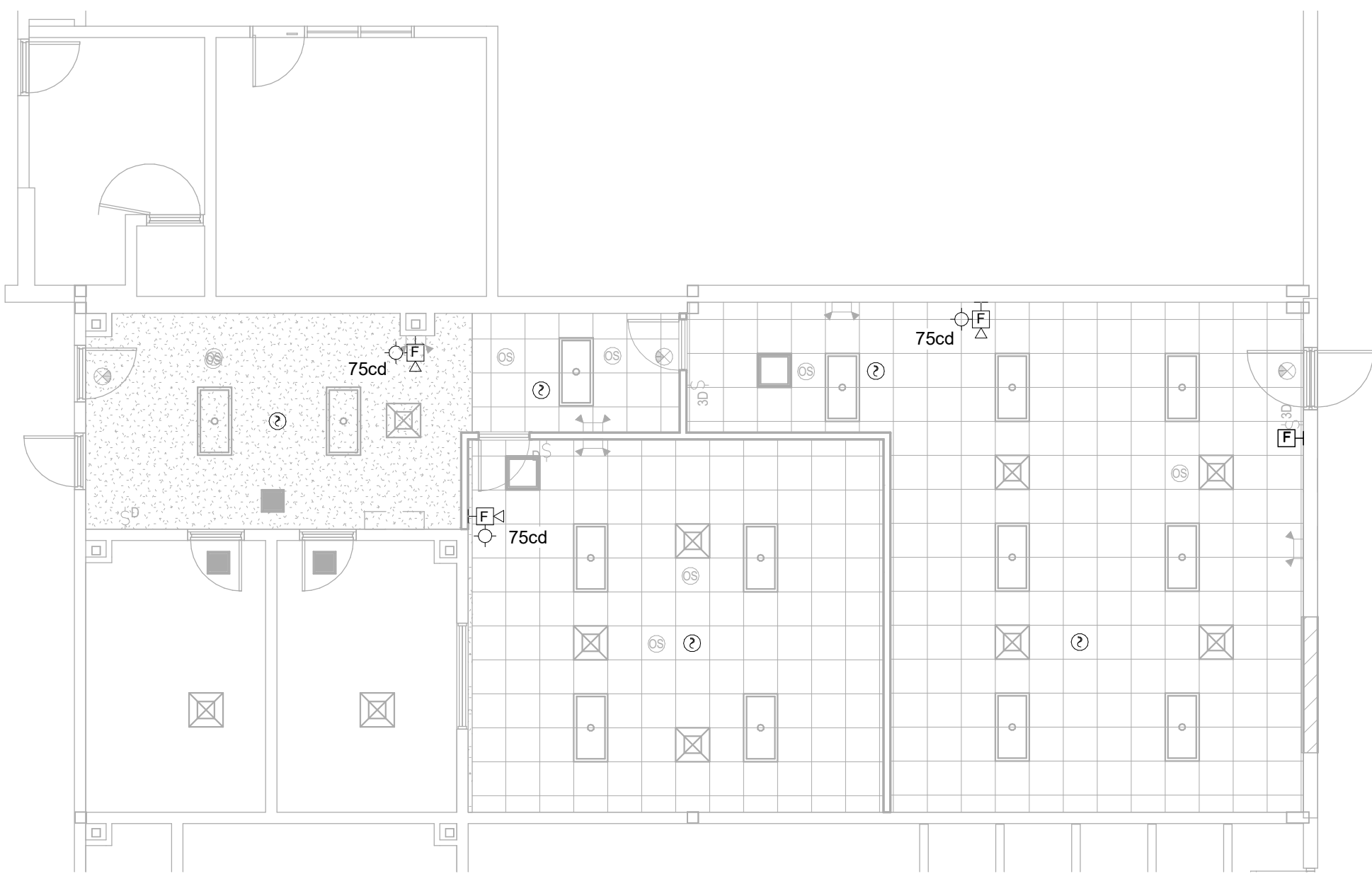
1 FIRE ALARM RISER1
NO SCALE



3 FIRE ALARM DEVICES
MOUNTING HEIGHTS1
NO SCALE



2 TYPICAL CEILING MOUNTED
DETECTOR MOUNTING DETAIL1
NO SCALE



4 CLASSROOM RENOVATION
PLAN - FIRE ALARM
SCALE: 1/8" = 1'-0"