

SPECIAL CONDITIONS AND REQUIRMENTS

- ANY SITE ADDED STRUCTURES MUST BE INDEPENDENT OF THE FACTORY BUILDING UNLESS THE ENTIRE BUILDING IS REVOLUTED BY THE SITE ENGINEER.
- TYPICAL FOUNDATION LAYOUT SHOWN IN THIS PARAGRAPH IS TO AD THE SITE ENGINEER/ARCHITECT FOR LOCATIONS OF REQUIRED SUPPORTS. ACTUAL FOUNDATION MUST BE DESIGNED TO SITE CONDITIONS FOR ALL APPLICABLE AND THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOUNDATION, SEISMIC DESIGN AND ATTACHING THE BUILDING TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGITUDINAL, SHEAR, UPLIFT AND DOWNWARD FORCES IN BOTH DIRECTIONS. REFER TO BRACING AND/OR APPLICABLE BRACING/SEISMIC LOADS FOR ATTACHING THE BUILDING TO FOUNDATIONS.
- ENGINEER SEAL APPLIES ONLY TO FACTORY MANUFACTURED PORTION OF THE BUILDING. SEAL DOES NOT APPLY TO SITE INSTALLED ELEMENTS OR PORTIONS BUILT ON SITE SUCH AS, BUT NOT LIMITED TO: FOUNDATION, BRACING BE DOWN TO FOUNDATION, EXTERIOR STAIRS, OR OTHER SITE WORKS. SITE WORK MUST BE DESIGNED BY OTHERS FOR SITE CONDITIONS, UNDER LOCAL JURISDICTION.

ATTENTION LOCAL INSPECTIONS DEPARTMENT

SITE INSTALLED ITEMS

- THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY EMC AND ARE NOT CERTIFIED BY THE STATE MODULAR LABEL. NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL. CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL.
1. THE COMPLETE FOUNDATION SUPPORT AND THE TIE DOWN SYSTEM.
 2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
 3. PORTABLE FIRE EXTINGUISHERS.
 4. BUILDING DRAINS, CLEANOUTS.
 5. AND HOOK-UP TO PLUMBING SYSTEM.
 5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
 6. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS
 7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINES) - (MULTI-UNITS ONLY).
 8. STRUCTURAL AND ACOUSTIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
 8. FIRE INSPECTION
 10. GLAZED OPENING PROTECTION (SEE GENERAL NOTE NO. 8)
 11. FIRE ALARM

STRUCTURAL LOAD LIMITATIONS:

- FLOOR DEAD AND LIVE LOAD:
A. DEAD LOAD = 10 PSF (MINIMUM)
B. UNIFORM LIVE LOAD = 40 PSF 100 PSF CORRIDOR
C. CONCENTRATED LIVE LOAD = 1000 LB OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR. NOTE: UNIFORM AND CONCENTRATED LIVE LOADS ARE NOT SIMULTANEOUSLY APPLIED.
- ROOF DEAD AND LIVE LOAD:
A. DEAD LOAD = 10 PSF (MINIMUM)
B. LIVE LOAD = 20 PSF
- ROOF SNOW LOAD:
A. SNOWING SNOW LOAD: $S_y = 20$ PSF
B. SNOW EXPOSURE FACTOR: $C_e = 1.0$
C. SNOW IMPORTANCE FACTOR: $I_s = 1.1$
D. SNOW-LOAD FACTOR: $C_s = 1.1$
E. SNOW THERMAL FACTOR: $T = 1.0$
F. SNOW-LOAD FACTOR: $S = 19.9$ PSF
G. SNOW-LOAD FACTOR: $S = 19.9$ PSF
H. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER AREA 1:10

- WIND LOAD:
A. ULTIMATE WIND SPEED (3-SEC GUST): $V_{ult} = 130$ MPH
B. NOMINAL WIND SPEED (3-SEC GUST): $V_{nom} = 100$ MPH
C. RISK CATEGORY: II
D. WIND EXPOSURE CATEGORY: B
E. INTERNAL PRESSURE COEFFICIENT: $C_{pi} = 0.18$
F. COMPONENT & CLADDING ULTIMATE DESIGN PRESSURES (NOMINAL DESIGN PRESSURE) FOR ROOF ANGLES 0 TO 7 DEGREES:
WALL ZONE 1: $P = +/- 49.2$ PSF (Wind = +/- 29.5 PSF)
WALL ZONE 4: $P = +/- 36.8$ PSF (Wind = +/- 24.0 PSF)
ROOF ZONE 1: $P = - 99.3$ PSF (Wind = - 59.8 PSF)
ROOF ZONE 2: $P = - 61.7$ PSF (Wind = - 37.0 PSF)
ROOF ZONE 1: $P = - 36.8$ PSF (Wind = - 22.1 PSF)

- SEISMIC LOAD:
A. RISK CATEGORY: II
B. SEISMIC IMPORTANCE FACTOR: $I_s = 1.25$
C. SEISMIC SITE CLASS: S
D. SEISMIC DESIGN CATEGORY: S II
E. SEISMIC DESIGN CATEGORY: S II
F. SEISMIC FORCE RESISTING SYSTEM: S A1S
G. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
H. RESPONSE MODIFICATION FACTOR: $R = 6.5$
I. SEISMIC RESPONSE COEFFICIENT: $C_s = 0.08$
J. SEISMIC BASE SHEAR: $V = 18816$ LBS

- FLOOR LOAD:
THE MODULAR BUILDING UNITS ARE NOT DESIGNED TO BE SUBJECTED TO DIRECT TO WALK ACTION IF INSTALLED IN A FLOOR PLAN. THE MODULAR BUILDING UNITS MUST BE INSTALLED ABOVE THE MINIMUM BASE FLOOR ELEVATION DERIVED FROM APPROPRIATE FLOOD ELEVATION MAPS FOR THE BUILDING SITE OR SET ON A FOUNDATION DESIGNED FOR FLOOD LEVELS.
- ROOF RAIN LOAD (PER APPENDIX B):
A. RAIN INTENSITY: $I = 4.3$ INCHES/HOUR

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 14 INCHES X 14 INCHES ADJUSTABLE WITH OVERHEAD FIBERGLASS DUCT (SEE FLOOR PLAN FOR SIZES), UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R-8 MINIMUM INSULATION AND R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING.
2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN (FOR UNLIMITED DOORS).
3. HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROVIDING 7.5 CFM PER PERSON.
4. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
5. EXHAUST FANS SHALL PROVIDE A MINIMUM OF 70 CFM FOR EACH WATER HEATER AND URINAL AND SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL INTAKE AND EXHAUST FANS SHALL RUN CONTINUOUSLY WHILE OCCUPIED.
6. THERMOSTAT MUST BE PROGRAMMABLE.

PLUMBING NOTES:

1. TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
2. REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F.
3. FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES.
4. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
5. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
6. WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR, 1" & 1/2" RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
7. DWV SYSTEM SHALL BE EITHER ABS OR PVC - DWV.
8. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
9. WATER CLOSERS ARE TANK TYPE AND URINALS ARE FLUSH VALVE TYPE UNLESS OTHERWISE SPECIFIED.
10. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
11. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 107° (48°F).
12. THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
13. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION.
14. WATER, SOIL AND WASTE PIPES IN UNCONDITION SPACES SHALL BE INSULATED AND PROTECTED FROM FREEZING.
15. CUSTOMER ASSUMES ALL RESPONSIBILITY FOR REQUIRED PLUMBING FACILITIES WHEN NOT SHOWN ON THE PLANS.
16. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMP LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAX OF 110°F(43°C).
17. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER CODE ARE NOT PROVIDED WITHIN THE BUILDING, A HANDICAPPED ACCESSIBLE FACILITY MUST BE PROVIDED ON SITE WITHIN THE ALLOWABLE DISTANCE PER CODE. THE REQUIRED FACILITY SHALL BE THE RESPONSIBILITY OF THE BUILDING OWNER AND IS SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY. THIS NOTE SHALL BE INDICATED ON THE DATA PLATE.
18. LAVATORY FAUCETS IN STUDENT RESTROOMS MUST BE OF THE METERING TYPE.

GENERAL NOTES:

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
2. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
3. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY.
4. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY.
5. SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTIONS AND THE DRAIN REQUIREMENTS.
6. STRAPPING MUST BE TESTED AND/OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY. APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
7. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
8. THIS BUILDING IS DESIGNED FOR NORTH CAROLINA CLIMATE ZONE 3a.
9. PROVISIONS FOR EXT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
10. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
11. IN WIND-BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND-BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE NCBC.
12. A FIRE ALARM MUST BE SITE INSTALLED BY OTHERS, SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION.
13. FOR NC INSTALLATION, REQUIRED EGRESS WINDOWS SHALL HAVE BOTTOM OF CLEAR OPENING NOT GREATER THAN 44" MEASURED FROM THE FLOOR, FOR CLASSROOMS SERVING 5TH GRADE AND LOWER THE BOTTOM OF THE CLEAR OPENING SHALL NOT BE MORE THAN 32" MEASURED FROM THE FLOOR.

ELECTRICAL NOTES:

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. RECESSED FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED RECESSED FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "CLOSET STORAGE SPACE" AS DEFINED BY NEC ARTICLE 410.2.
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE DISCONNECT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READY ACCESSIBLE CIRCUIT BREAKER.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH/ARTICLES 110.9 & 110.10 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
6. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
7. ALL CIRCUITS CROSSING OVER MODULE MATELINES SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES, OR CABLE CONNECTORS.
8. ALL RECEPTACLES INSTALLED IN NET LOCATIONS (EXTERIOR SHALL BE IN WEATHER PROOF (WP) ENCLOSURES THE INTERIOR OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG, CAP IS INSERTED OR REMOVED. 15 AND 20 AMP RECEPTACLE OUTLETS INSTALLED ON THE EXTERIOR OF THE BUILDING MUST BE LISTED AND MARKED AS WEATHER RESISTANT TYPE.
9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
10. THE BUILDINGS FIRE ALARM SYSTEM (PROTECTIVE SIGNALING SYSTEMS, FIRE DETECTION SYSTEMS, ETC.) SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 101 AND NFPA 72 AND SITE INSTALLED BY OTHERS SUBJECT TO LOCAL BUILDING OFFICIAL REVIEW AND APPROVAL. THE FIRE ALARM CONTROL PANEL MUST BE INSTALLED IN A HIGHLY VISIBLE LOCATION ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. (THE FACP CANNOT BE INSTALLED IN A CLOSET OR BATHROOM).
11. TAMPER RESISTANT RECEPTS TO BE PROVIDED IN ALL EDUCATION BUILDINGS.

N.C. INSTALLATION INSTRUCTIONS

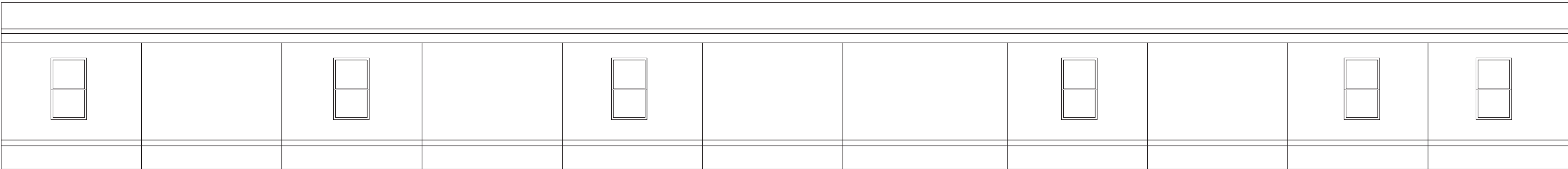
ATTENTION LOCAL INSPECTIONS DEPARTMENT

INSTALLATION INSTRUCTIONS FOR THIS MODULAR BUILDING ARE INCLUDED BY ATTACHMENT TO THESE PLANS. ANY PLANS SET WHICH DOES NOT CONTAIN AN ATTACHMENT ENTITLED "INSTALLATION INSTRUCTIONS" IS INCOMPLETE. REFER TO THE FOLLOWING SECTIONS OF THE PLAN SET AND INSTALLATION FOR IMPORTANT INFORMATION CONCERNING THE INSTALLATION OF THE MODULAR BUILDING.

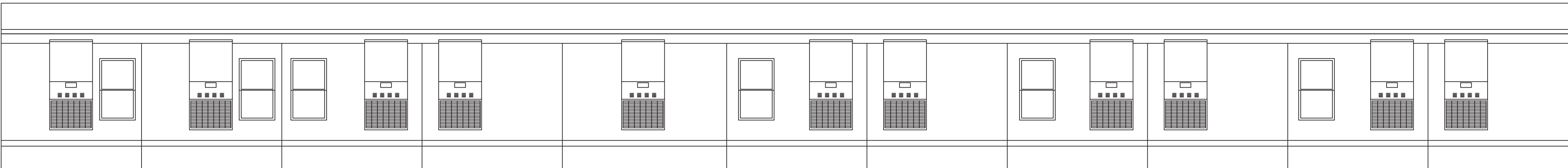
1. THE INTERCONNECTION BETWEEN BUILDING MODULES AT THE FLOOR AND ROOF SHALL BE SPECIFIED ON THE CROSS SECTION DRAWING ON THE PLAN SET.
2. BUILDING TIE DOWN AND ANCHORAGE REQUIREMENTS ARE AS INDICATED ON FOUNDATION PLAN.
3. ELECTRICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.2, E2.0, E2.1, E2.2, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
4. MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.0, E2.4, E2.5 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
5. PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.1, E1.2, E2.3, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
6. FIRE BLOODING SHALL BE PROVIDED PER SECTION 717.2 AND 1406.2.3 OF THE N.C. BUILDING CODE (AS APPLICABLE).
7. AIR INFILTRATION AT MODULE MATELINES SHALL BE LIMITED BY INSTALLING BULL TIE ALONG THE MATELINES DURING SET UP AND/OR BY INSTALLING CONTINUOUS SHEATING ACROSS THE MATE LINE JOINTS AFTER SET UP.

ACCESSIBILITY NOTES:

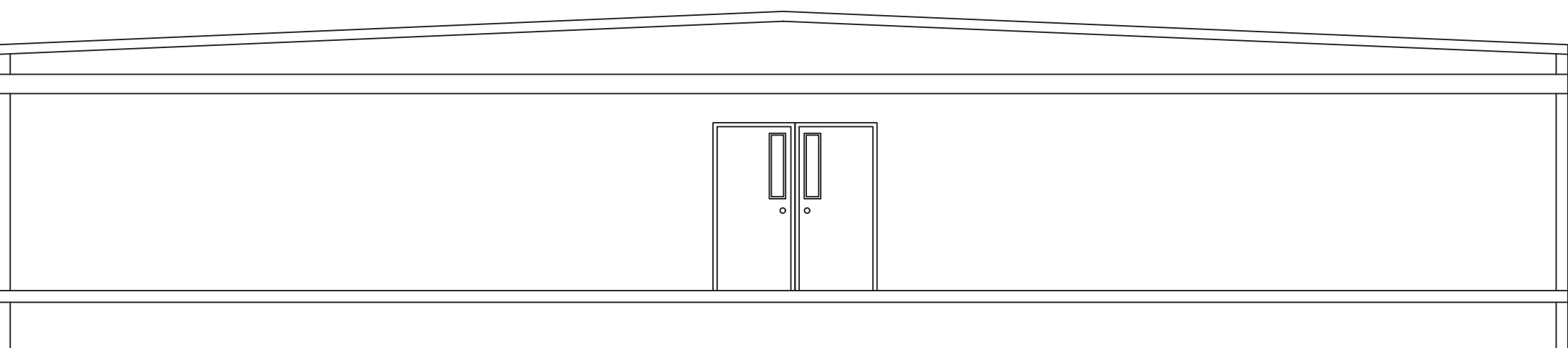
1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. ENTRANCES ARE ACCESSIBLE IF THEY ARE: 1. DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR.
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5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICH EVER IS LOWER.
6. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MAXIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 LBS. FOR ALL SLIDING FOLDING, AND INTERIOR HINGED DOORS.
7. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 MAX. GRATING IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOWNGRADE THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
8. ACCESSIBLE WATER CLOSERS SHALL BE 17 INCHES TO 19 INCHES MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 AND 41 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE WALL.
9. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
10. ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. ONE CLEARANCE OF AT LEAST 27 INCHES HIGH MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE. AND 8 INCHES HIGH MINIMUM WITH A MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE. THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.
11. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
12. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (I.E. LEVER-OPERATED, PUSH TYPE, ELECTRONICALLY CONTROLLED).
13. MIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.
14. GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.25 INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1.5 INCHES.
15. WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 36 INCHES ABOVE THE FLOOR AND SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
16. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER - OPERATED, PUSH/TYPE, U-SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.
17. TOILET STALL DOORS SHALL BE THE SELF-CLOSING TYPE.
18. A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVATORIES.



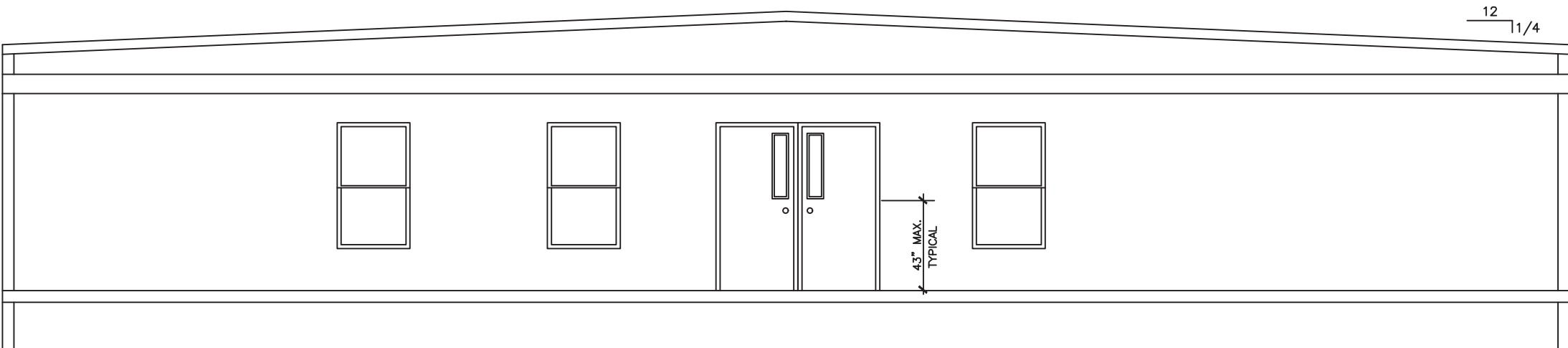
LEFT ELEVATION



RIGHT ELEVATION



REAR ELEVATION



FRONT ELEVATION

ELEVATION NOTES: TYPICAL
SEE -CROSS SECTION FOR
METHOD OF ROOF VENTILATION

ACCESSIBLE RAMP(S), STAIR(S),
AND HANDRAILS ARE SITE
INSTALLED, DESIGNED BY OTHERS,
AND SUBJECT TO LOCAL JURISDICTION.

FOUNDATION ENCLOSURE
(WHEN PROVIDED) MUST HAVE
1 SQUARE FOOT NET VENT AREA
PER 1/150TH OF THE FLOOR AREA,
AND AN 18" X 24" MINIMUM CRAWL
SPACE ACCESS, SITE INSTALLED BY
OTHERS SUBJECT TO LOCAL
JURISDICTION.

ELEVATIONS SHOWN ON THIS PAGE
REPRESENT BASIC COMPONENTS & ARE
NOT INTENDED TO BE ALL INCLUSIVE.
NOR DO THESE ELEVATIONS DETAIL EVERY
CODE REQUIRED ASPECT OF THIS BLDG.
SITE BUILT STAIRS, STEPS, DECKS,
PORCHES, HANDRAILS AND/OR SIMILAR
ITEMS MUST BE PROVIDED BY OTHERS ON
SITE FOR COMPLIANCE WITH APPLICABLE
CODES. COMPLIANCE WITH ALL APPLICABLE
CODES PER LOCAL AUTHORITY HAVING
JURISDICTION, WHETHER DETAILED IN THIS
SET OR NOT, MUST BE MET.

BUILDING DESIGN PARAMETERS

1. USE/OCCUPANCY: EDUCATION
AGE GROUP: 5TH THROUGH 4TH GRADE
2. CONSTRUCTION TYPE: VB
3. SPRINKLER SYSTEM: NO
4. BUILDING AREA: 8341 S.F.
5. BUILDING HEIGHT: 2.15 FEET
6. NUMBER OF STORIES: 1
7. NUMBER OF MODULES: 1
8. OCCUPANT LOAD: 200 BASED ON 20 NET SF/PERSON IN CLASSROOMS, 15 NET SF/PERSON IN CONFERENCE ROOM AND 100 SF/PERSON CLOSET
9. EXTERIOR WALL FIRE RATING: NOT RATED
10. THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY NCBC 602 AND SECTION 705.3
11. EMERGENCY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS
12. MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

CONSULTING ENGINEER KENNETH EARL DUNNION — 195 TOMMY HOOKS ROAD — AMERICUS, GEORGIA 31709 — 229-942-1920

DIAMOND BUILDERS INC.
P.O. BOX 2020
DOUGLASS, GEORGIA 31534
(912) 384-7080

DATE: 4-16-23
SCALE: NO SCALE
CODES: SEE NOTES
STATES: NC
REFERENCE: 10735

REVISIONS:
DBI10735 A-K
130'-4" x 64'-0" EDUCATION
COVER SHEET
DESTINATION: GOLDSBORO

BY: K.E.D.
SHEET
1 OF 4

ELECTRICAL SCHEDULE 'A'		
CIRCUIT	NOMENCLATURE	BREAKER (AMPS) WIRE (CU.)
1, 3	HWAC	60 A (2P) HACR 6-2 #8 GND.
6, 8	RECEPTACLES/TAN	20 A 12-2 NM

2, 4	LIGHTING	15 A	14-2 MM
ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL 'A'	KVA	
.0030 KW/SF X 1182 SF X 1.25=		4.5	
11 RECEPTS AT 180VA/1000=		2.0	
WATER HEATER 1.9 KW X 1.25 =		-	
1 FANS @ .3 KW X 1.25 =		.4	
HVAC		10.5	

ELECTRICAL SCHEDULE			'C'
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	FRIG	60 A (2P) HACR	6-2 #6 GRND.
4, 6	RECEPTACLES/FAN	20 A	12-2 NM

ELECTRICAL PANEL SIZING:	
DESCRIPTION	KVA
.0030 KW/SF X 636 SF X 1.25 =	2.4
11 RECEPTS AT 180VA/1000 =	2.0
WATER HEATER 1.9 KW X 1.25 =	-
1 FANS @ .3 KW X 1.25 =	.4
HVAC	10.5

ELECTRICAL SCHEDULE			'E'
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HWAC	60 A (2P) HACR	6-2 #6 GRND.
4, 6	RECEPTACLES/FAN	20 A	12-2 NM

ELECTRICAL PANEL SIZING:		
DESCRIPTION	PANEL "E"	KVA
.0030 KW/SF X 636 SF X 1.25=		2.4
.12 RECEIPTS AT 180VA/1000=		2.2
WATER HEATER 1.9 KW X 1.25 =		—
1 FANS @ .3 KW X 1.25=		.4
HVAC		10.5

ELECTRICAL SCHEDULE 'G'		
CIRCUIT	NOMENCLATURE	WIRE (CU.)
1, 3	MISC	60 A (2P) NACR
5	WATER HEATER	20 A(1P)
4	RECEPTACLES/FAN	20 A

ELECTRICAL PANEL SIZING:		
DESCRIPTION	PANEL "C"	KVA
.0030 KW/SF X 722 SF X 1.25=		2.8
8 RECEPTS AT 180VA/1000=		1.5
WATER HEATER 1.9 KW X 1.25 =		2.4
8 FANS @ .3 KW X 1.25=		2.4
HVAC		10.5

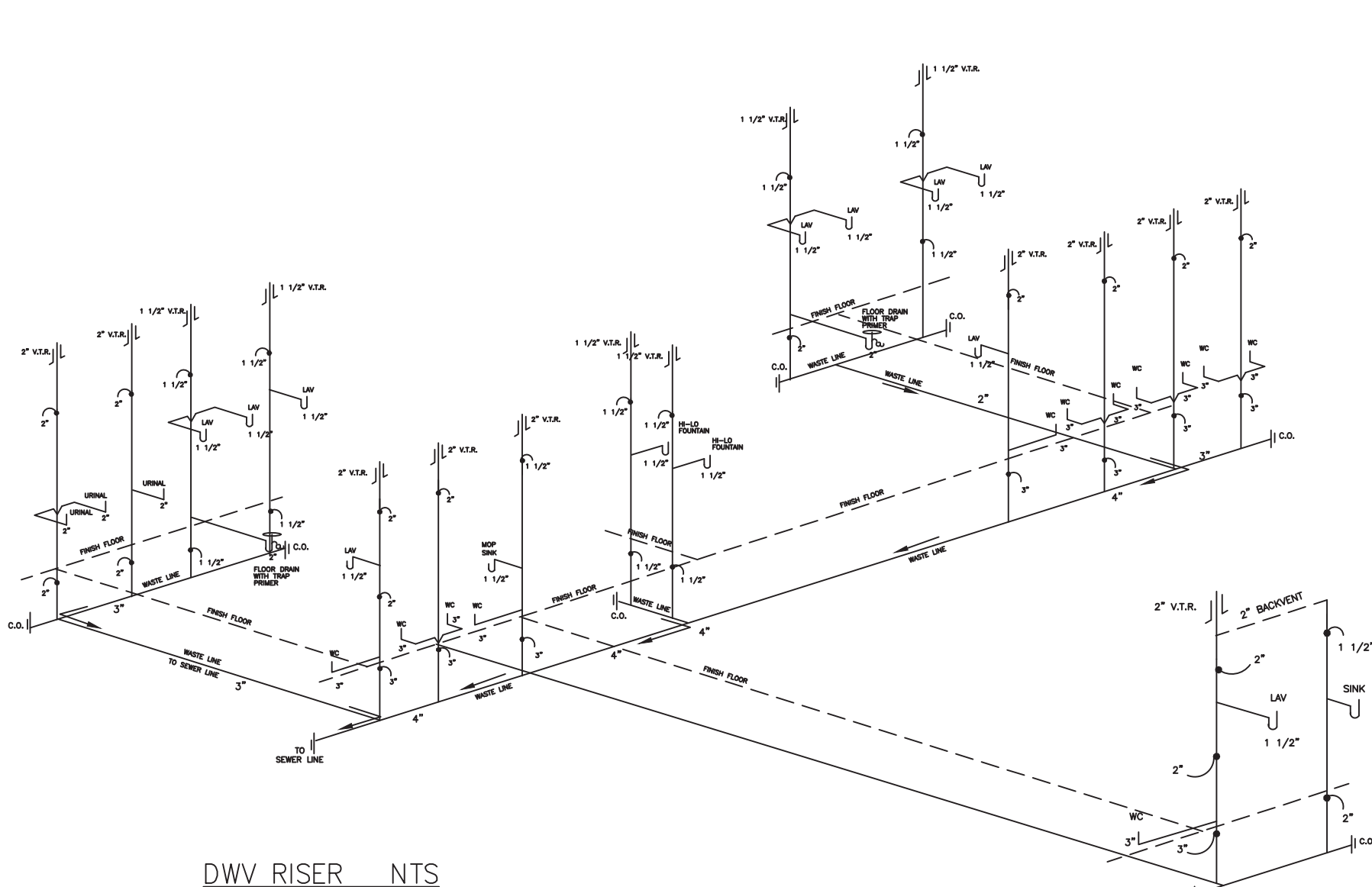
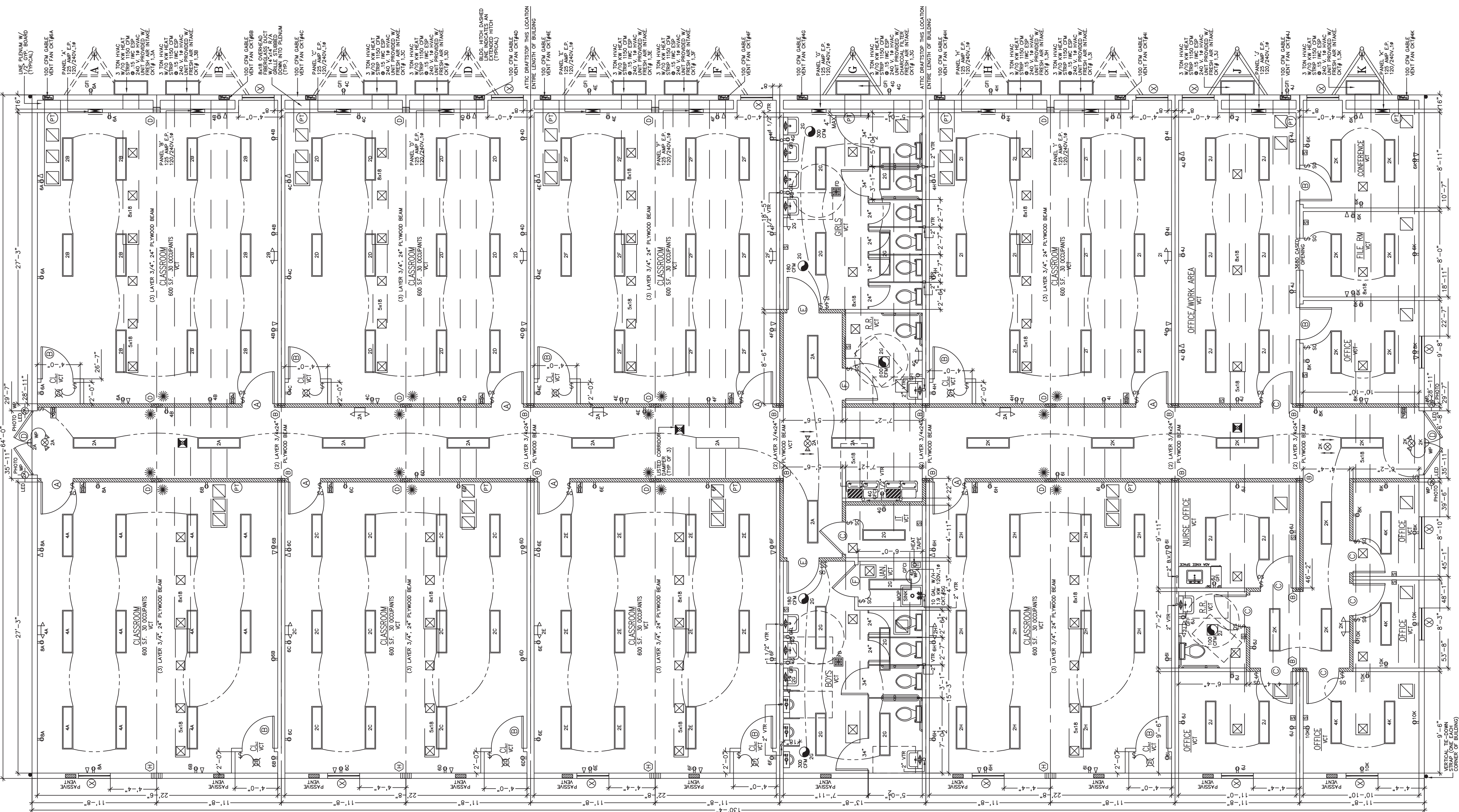
ELECTRICAL SCHEDULE			1'
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	INAC	60 A (2P) HACR	6-2 #8 GND.
4, 6	RECEPTACLES/FAN	20 A	12-2 NM

ELECTRICAL PANEL SIZING:		
DESCRIPTION	PANEL 1'	KVA
.0030 KW/SF X 636 SF X 1.25=		2.4
11 RECEPTS AT 180VA/1000=		2.0
WATER HEATER 1.9 KW X 1.25 =		--
1 FANS @ .3 KW X 1.25=		.4
HVAC		10.5
TOTAL	15.3 KW	

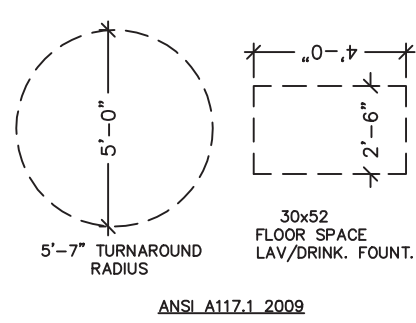
ELECTRICAL SCHEDULE 'K'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	INAC	60 A (2P) NACR	6-2 #8 GND.

0, 8	RECEPTACLES/FFAN	20 A	12-2 NM
2, 4	LIGHTING	15 A	14-2 NM
ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL "K"	KVA	
.0030 KW/SF X 1013 SF X 1.25=		3.8	
22 RECEPTS AT 180VA/1000=		4.0	
WATER HEATER 1.9 KW X 1.25 =		—	
1 FANS @ .3 KW X 1.25=		.4	

TOTAL 18.7 KW
TOTAL/240 X 1000= 78 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

DWV RISER NTS

SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"X60" VERTICAL SLIDE, INSULATED BRONZE/TINTED	15

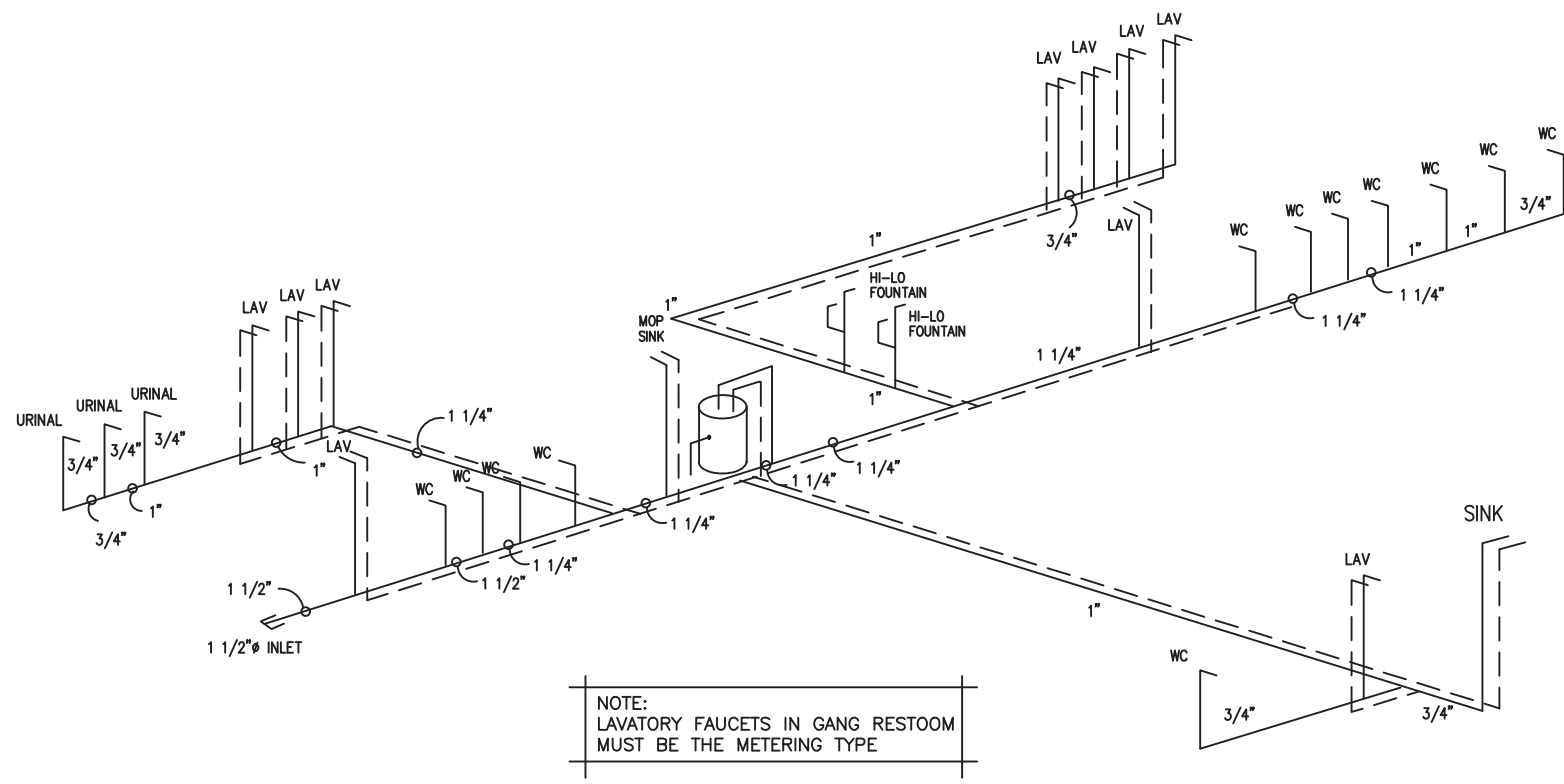


SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

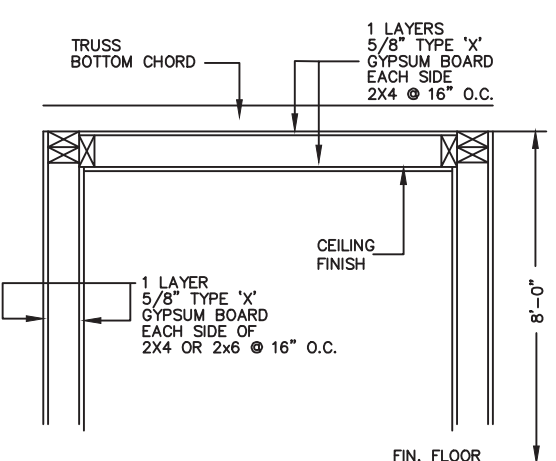
— — — COLD
— — — HOT

ALL SUPPLY LINES SHALL BE 3/4", ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.

— — — — HOT
ALL SUPPLY LINES SHALL BE
3/4", ALL STUB-UPS SHALL BE
1/2" UNLESS OTHERWISE SPECIFIED.



NOTE:
LAVATORY FAUCETS IN GANG RESTROOM
MUST BE THE METERING TYPE

[illegible]

ONE HOUR
CONSTRUCTION

COLUMN STRAPPING SCHEDULE:

(A)	(2) 2x4 SPF #2 THIS HALF.	(B)	(2) 2x4 SPF #2 EACH HALF
(C)	(2) 2x4 SPF #2 THIS HALF.	(D)	(2) 2x4 SPF #2 EACH HALF.
(E)	(2) 2x4 SPF #2 THIS HALF.	(F)	(2) 2x4 SPF #2 EACH HALF.
(G)	(2) 2x4 SPF #2 THIS HALF.	(H)	(2) 2x4 SPF #2 EACH HALF.

NOTES:

- ALL COLUMN STUDS SHALL BE GLUE/NAILED TOGETHER. PVA GLUE WITH 100% COVERAGE SHALL BE USED.
- INSTALL TWO STEEL STRAPS AT EACH STUD OF EACH COLUMN.
- COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.

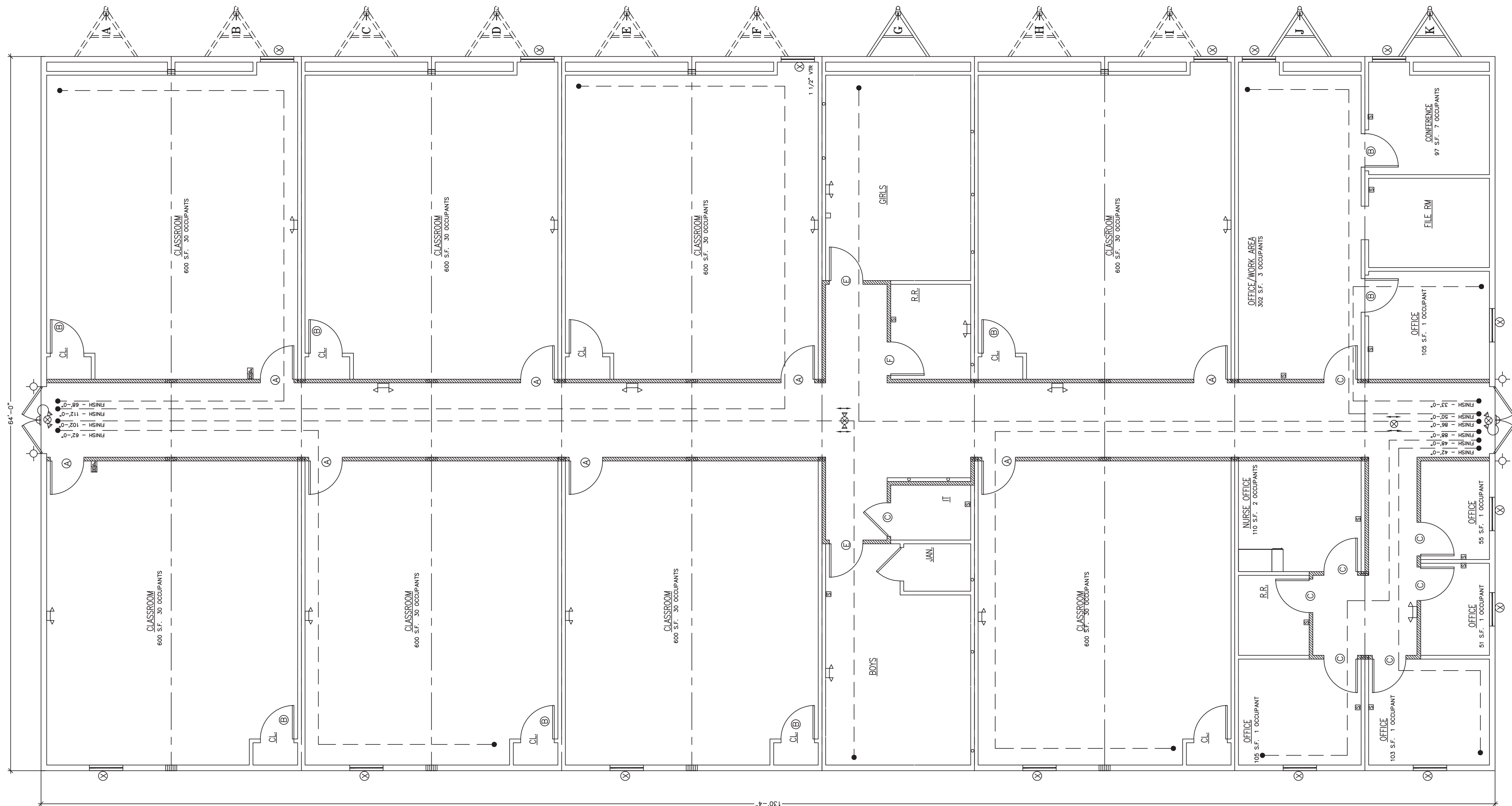
NOTES:

1. ALL COLUMN STUDS SHALL BE GLUE/NAILED TOGETHER.
PVA GLUE WITH 100% COVERAGE SHALL BE USED.
2. INSTALL TWO STEEL STRAPS AT EACH STUD OF EACH COLUMN.
3. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.

CONSULTING ENGINEER	KENNETH EARL DUNMON - 195 TOMMY HOOKS RD. - AMERICUS, GEORGIA 31709 - 229-942-2020
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	DIAMOND BUILDERS INC. P.O. BOX 2250 DOUGLASS, GEORGIA 31534		440 THOMPSON DR. (912) 384-7089	
	DATE: 4-16-23		REVISONS:	
	SCALE : 3/16"=1'-0"			
	CODES: SEE NOTES			
	STATES: NC		BT: K.E.D.	
REFERENCE: 10735		DBI10735 A-K		SHEET
130'-4" x 64'-0" EDUCATION				
FLOOR PLAN		DESTINATION: GOLDSBRO		2 OF 4

	STATES: NC	1075	K.E.D.
	REFERENCE: 10735		
	DBI10735 A-K 130'-4" x 64'-0" EDUCATION		SHEET
FLOOR PLAN	DESTINATION: GOLDSBORO	2 OF 4	



WINDOW SCHEDULE	
EXTERIOR:	36"x60" VERTICAL SLIDER 1/20/-50 DP INSULATED LOW-E WHITE VINYL FRAME, TINTED GLASS
OPENING:	30.375" x 27" = 5.7 S.F.
NOTE:	1. EACH DOT DOOR IS ABLE TO ACCOMMODATE: (2) 75-60 DOOR, 64" CLEAR WIDTH EACH DOOR 64/0/20 = 320 EACH (2) TOTAL DOORS 640 PERSON TOTAL CAPACITY
NUMBER OF EXITS:	REQUIRED: 2 PROVIDED: 2

LIFE SAFETY PARAMETERS	
1. USE/OCCUPANCY:	EDUCATION
2. AREA:	8341 S.F.
3. OCCUPANT LOAD:	OCCUPANT LOAD: 257 BASED ON 20 NET SF/PERSON IN CLASSROOMS, 15 NET SF/PERSON IN CONFERENCE ROOM AND 100 SF/PERSON ELSEWHERE

SYMBOL	DOOR SCHEDULE	TOTAL
A	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK WITH 4"x24" VIEW BLOCK, SAFETY GLASS LEVER	8
B	36"x80" SOLID CORE IMPERIAL OAK W/REDFRAME, LEVER	10
C	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK, LEVER	8
D	27"x80" STEEL/STEEL W/4"x24" VIEW PANEL PLANK HARDWARE	2
E	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK PUSH/PULL WITH LATCH	2
F	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK, PRIVACY LEVER	2

SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"x60" VERTICAL SLIDE, INSULATED BRONZE/TINTED	15



CONSULTING ENGINEER KENNETH EARL DUNNOM — 195 TOMMY HOOKS RD. — AMERICUS, GEORGIA 31709 — 229-942-2020	
DIAMOND BUILDERS INC. P.O. BOX 2200 DOUGLASS, GEORGIA 31034 440 THOMPSON DR. (912) 384-7080	
DATE: 4-16-23 SCALE: 3/16"=1'-0" CODES: SEE NOTES STATES: NC REFERENCE: 10735	REVISIONS: BY: K.E.D. SHEET 3 OF 4 DESTINATION: GOLDSBORO

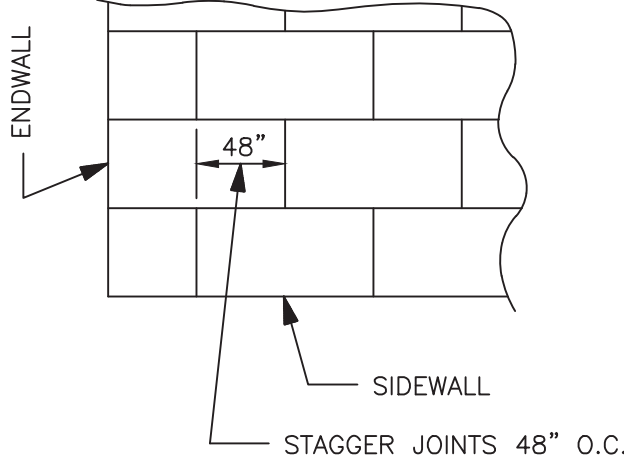
INTERIOR FINISH MATERIAL:

- CEILING - 1/2" GYP. BOARD INSTALLED PER MANUFACTURERS SPECIFICATIONS, (SEASPRAY FINISH)
- WALLS - 5/8" TYPE 'X' GYPSUM BOARD (VCG THROUGH OUT) INSTALLED PER MANUFACTURERS SPECIFICATIONS
- FLOOR - SEE FLOOR PLAN

NOTE:
INTERIOR WALL AND CEILING FINISH SHALL BE CLASS B OR BETTER IN IN CORRIDORS AND CLASS C OR BETTER IN ROOMS AND ENCLOSED SPACES. FLOOR FINISHES SHALL BE CLASS II OR BETTER.

EXTERIOR FINISH MATERIAL:

- ROOF - MULE-HIDE 45 MIL (BLACK) EPDM (ESR-1463) FULLY ADHERED TO 7/16" OSB OR 1/2" PLYWOOD WITH MULE-HIDE FR ADHESIVE IN ACCORDANCE WITH INTERTEK REPORT CCRR-1078 (CLASS 'C' ROOF)
- WALL - 7/16" HARDI PANEL SIDING OVER APPROVED MOISTURE BARRIER INSTALLED PER MANUFACTURERS SPECIFICATIONS.



ROOF SHEATHING TO BE FASTENED TO TRUSSES W/0.099"Ø x 2" NAILS AT 6" O.C. ON EDGES & 6" O.C. IN THE FIELD ON ALL ZONES

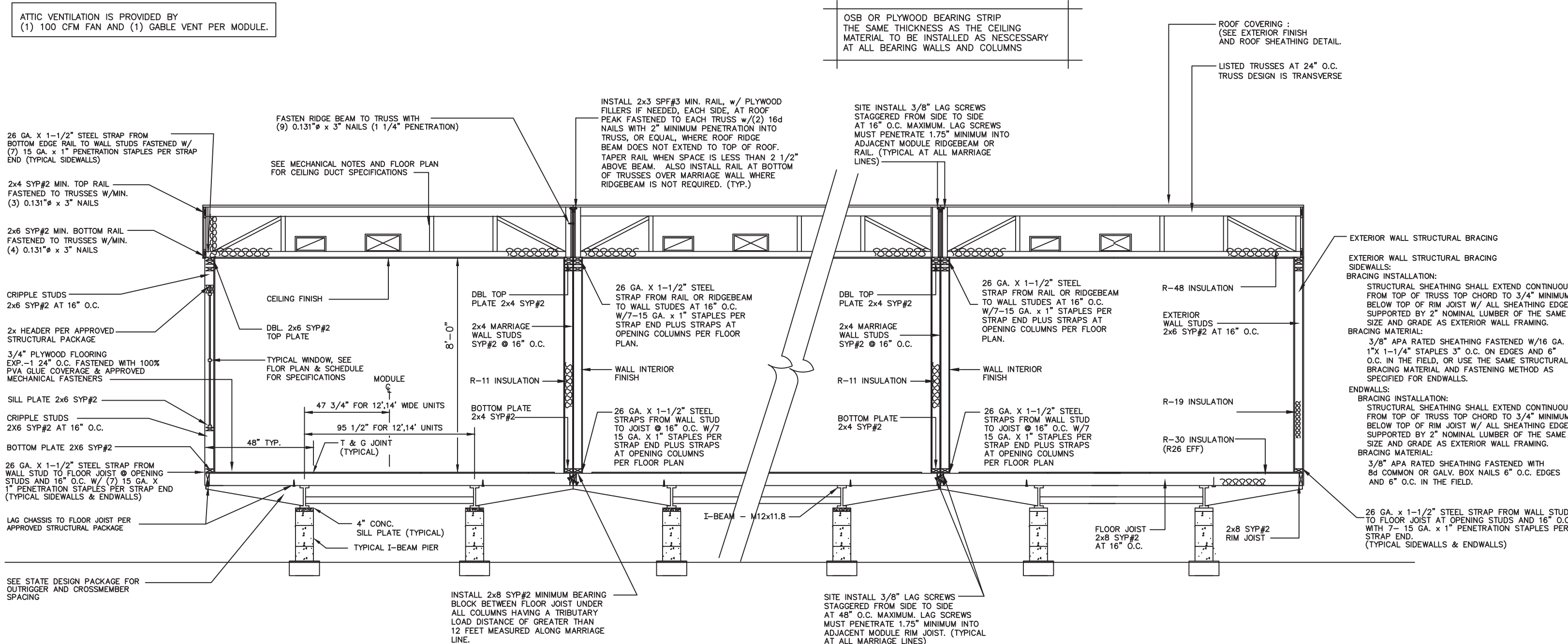
ROOF SHEATHING DETAIL

APPROVED TRUSS DESIGN:

TRUSS MANUFACTURER: S.W. GEORGIA WHOLESALE

TRUSS DRAWING. # SW-FT27100

TRUSS DRAWING. # SW-FT28100



GENERAL CROSS-SECTION NOTES:

- UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A36, YIELD STRENGTH = 36 KSI.
- ALL LAG SCREWS MUST COMPLY W/ ANSI/ ASME B18.2.1. F_{ty} = 60 KSI MINIMUM.
- SEE FOUNDATION PLAN FOR PIER AND TIE-DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

RIDGE BEAM CONSTRUCTION:

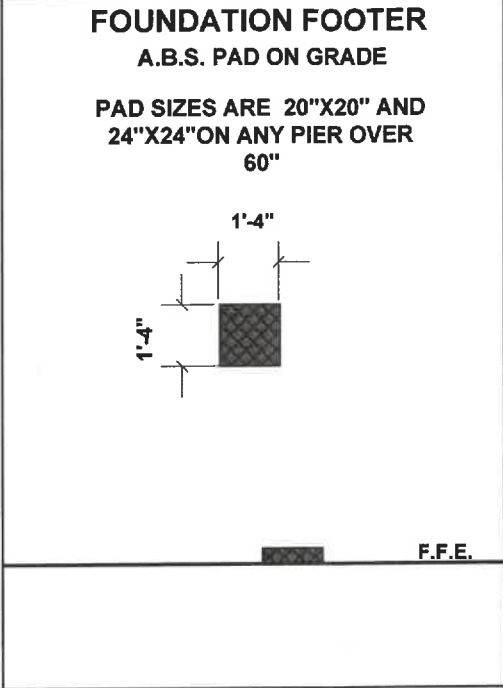
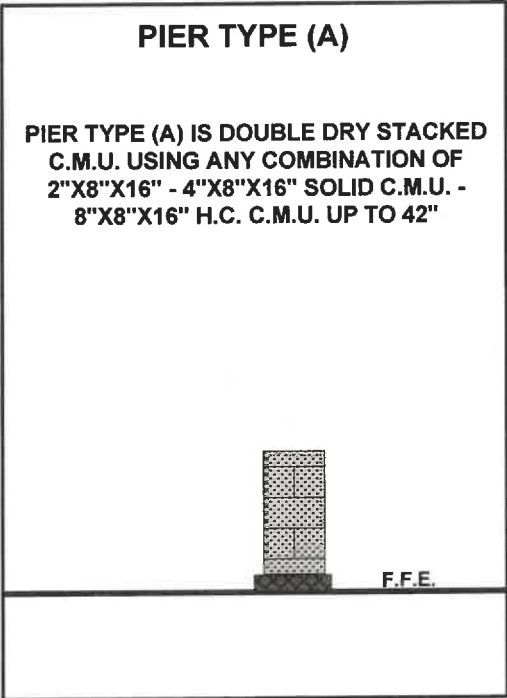
(SEE FLOOR PLAN) 3/4" PLYWOOD, RATED SHEATHING, EXP.-1, STRUCT.-1, 5 PLY/5 LAYER, 48/24 EACH HALF CONTINUOUS ENTIRE LENGTH OF CLEARSPAN.

NOTES:

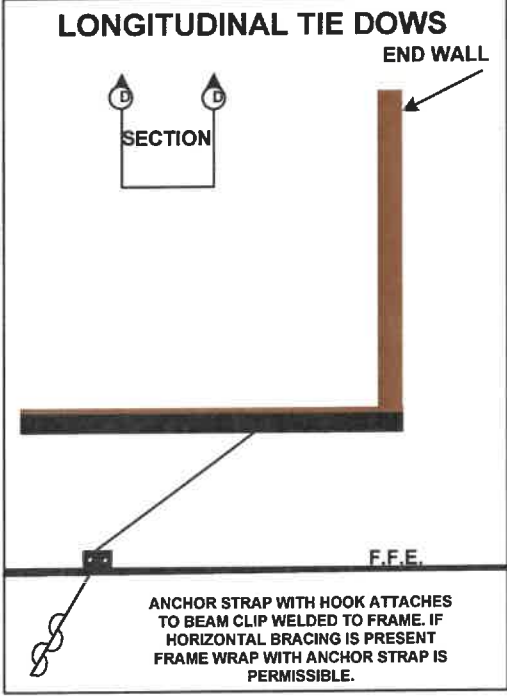
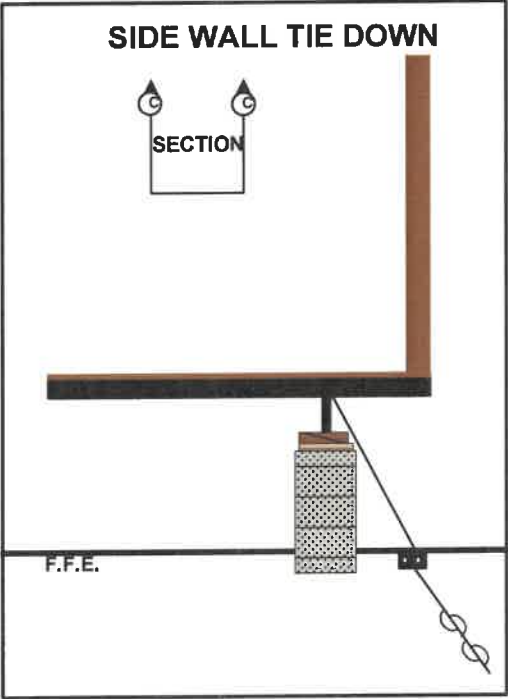
- PLYWOOD FACE GRAIN MUST BE PARALLEL TO THE RIDGE BEAM SPAN.
- ALL PLYWOOD BUTT JOINTS MUST BE STAGGERED 24" MINIMUM.
- ALL RIDGE BEAM PLYWOOD LAMINATIONS MUST BE THE SAME DEPTH, THICKNESS, AND GRADE OF PLYWOOD. NO LUMBER OR PLYWOOD FLANGES ARE PERMITTED.
- PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE W/ PS I-95.
- PLYWOOD LAMINATIONS IN EACH HALF OF THE UNITS MUST BE GLUE NAILED TO ADJACENT LAYERS IN ACCORDANCE W/PS SUPPLEMENT #5, W/ AN ADHESIVE COMPLYING W/ASTM D2559 (SEE APPROVED PACKAGE FOR MECHANICAL FASTENER SPECIFICATIONS & SPACING REQUIREMENTS).
- PLYWOOD MUST NOT BE TREATED W/ A FIRE RETARDANT PROCESS.
- MOISTURE CONTENT MUST BE LESS THAN 16%.
- BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
- INSTALL (2X4) X 20" SPF#3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS. WHEN SPECIFIED ON FLOOR PLAN: FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM W/ 100% GLUE COVERAGE AND (6) 16 GA. X 2-1/2" STAPLES.



CONSULTING ENGINEER KENNETH EARL DUNNOM -- 195 TOMMY HOOKS RD. -- AMERICUS, GEORGIA 31709 -- 229-942-2020			
DIAMOND BUILDERS INC. P.O. BOX 2200 DOUGLASS, GEORGIA 31534 440 THOMPSON DR. (912) 384-7080		DATE: 4-16-23 SCALE : NO SCALE CODES: SEE NOTES STATES: NC REFERENCE: 10735	
DB10735 A-K 130'-4" x 64'-0" EDUCATION		BY: K.E.D. SHEET 4 OF 4	
CROSS SECTION		DESTINATION: GOLDSBORO	



- PIER NOTES**
1. DOUBLE BLOCKED PIERS UNDER 42" DO NOT REQUIRE SURFACE BONDING
 2. ALL SINGLE BLOCKED PIERS REQUIRE SURFACE BONDING.
 3. ALL PIERS OVER 42" REQUIRE DOUBLE BLOCKING AND SURFACE BONDING.
 4. ALL PIERS OVER 60" REQUIRE SOLID C.M.U.'S. AND SURFACE BONDING.
 5. ALL PIERS ARE DRY STACKED ON A.B.S. PAD FOUNDATION FOOTING UP TO 42".
 6. PIERS OVER 60" REQUIRE SOLID C.M.U.'S, SURFACE BONDING AND 24"X24" A.B.S. PADS.
 7. OAK BOARD OR TREATED LUMBER NO MORE THAN 3" IN THICKNESS IS REQUIRED ON TOP OF ALL PIERS WITH WOODEN SHIMS DRIVEN TIGHT FROM BOTH SIDES TO TIGHTEN PIER TO FRAME.

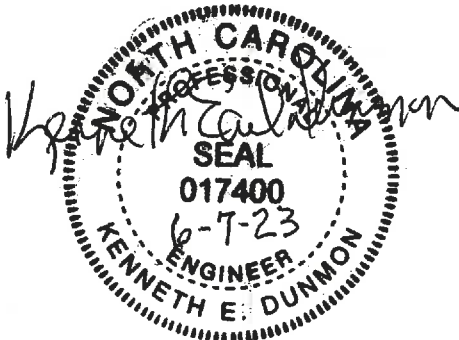


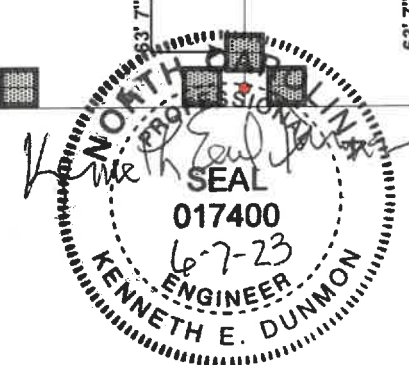
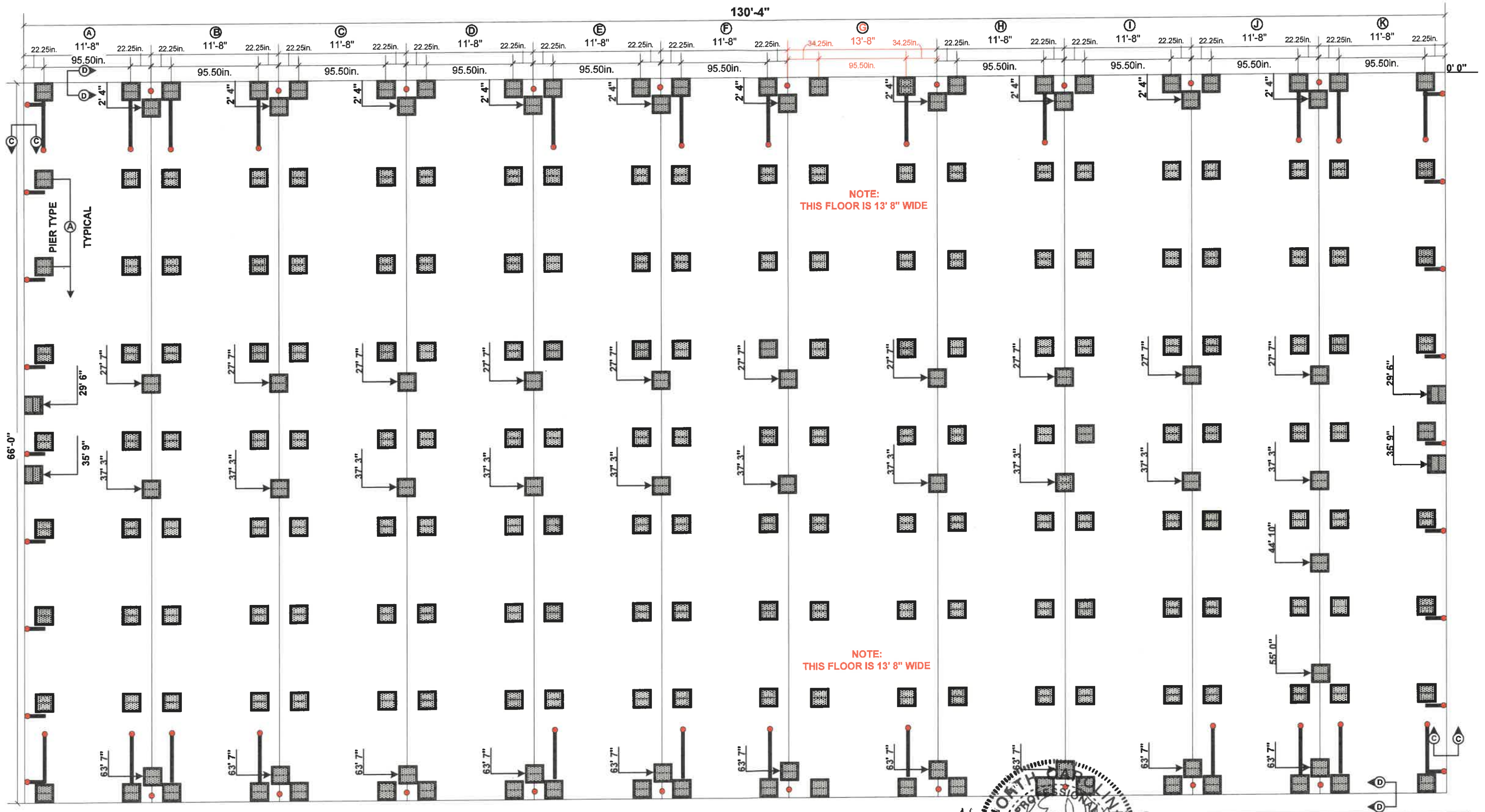
- TIE DOWN NOTES**
1. ANCHORS ARE DOUBLE 4" HELIX 4430 DH 3/4 - 30" ROD.
 2. ANCHOR STRAPPING TO BE 4 1/4"X.035" TYPE 1 ZINK COATED STEEL STRAPPING

WIND SPEED: 130 M.P.H.
PIER SPACING: 8' 0" O.C. MAXIMUM
BASED ON MINIMUM SOIL BEARING CAPACITY OF 1500 P.S.F.
ANCHOR SPACING: 2' FROM ENDS THEN EVERY 8' O.C. MAXIMUM
MATE-LINE PIER SPACING SHOWN ON PLAN SHEET -1 OF 2

NOTE: THE ACTUAL NUMBER OF PIERS OR ANCHORS IS DETERMINED BY THE SPACING DISTANCE AND NOT THE NUMBER THAT APPEARS ON THE FOUNDATION DRAWING.

ON-GRADE FOUNDATION AND ANCHORING PLAN

	WAYNE STEM ACADEMY			
	3006 SUMMIT RD. GOLDSBORO, NC.			
			DWG NO	
		130' - 4" X 66'-0"	DBI-10735 A/K	
	SCALE	NTS	SHEET	2 OF 2



WAYNE STEM ACADEMY			
3006 SUMMIT RD. GOLDSBORO, NC.			
DWG NO DBI-10735 A/K		SHEET 1 OF 2	
SCALE	1/8" = 1'-0"		



07/13/2026

Harnett County Building Inspections
420 McKinney Parkway
Lillington, NC 27546

Re: Achievement Charter Academy – Modular Classroom Relocation

25 Buttonwood Court
Fuquay-Varina, NC 27526

To Whom It May Concern:

At the request of Achievement Charter Academy, Bowman Consulting has reviewed the original sealed structural foundation drawings and supporting project documentation for the modular classroom buildings proposed to be relocated from Wayne STEM Academy in Goldsboro, North Carolina, to the proposed site located at 25 Buttonwood Court, Fuquay-Varina, North Carolina. The documents reviewed as part of this evaluation are identified in Exhibit B – Documents Reviewed.

The purpose of this review is to evaluate the compatibility of the governing structural site design criteria for the proposed relocation site with the design criteria identified on the original sealed foundation drawings. This evaluation was performed in accordance with the applicable North Carolina Building Code requirements and applicable provisions of the International Building Code (IBC). A summary of the governing structural design criteria comparison is provided in Exhibit A – Structural Design Criteria Comparison.

Our review was limited to a comparison of the applicable building code requirements, Risk Category, design wind criteria, seismic design criteria, and assumed allowable soil bearing pressure. The evaluation was based on the assumption that the modular buildings, foundation configuration, structural framing, loading conditions, occupancy classification, and intended use remain consistent with those shown on the original sealed structural drawings.

Based on the information available, the governing structural design criteria for the proposed relocation site do not exceed those used for the original foundation design.

Specifically, the proposed site has an ultimate design wind speed of 130 mph in accordance with ASCE/SEI 7-16 for Risk Category IV structures, consistent with the original foundation design criteria. The proposed site is classified as Exposure Category C, consistent with the original foundation design. Accordingly, the applicable wind design parameters do not exceed those used for the original design.

The applicable seismic design criteria for the proposed relocation site were also reviewed. Based on the structural characteristics of the modular buildings and the applicable governing load combinations, wind loading remains the controlling lateral design case. Accordingly, seismic loading does not result in more stringent structural foundation design requirements than those considered in the original design.

In the absence of a project-specific geotechnical investigation, this evaluation assumes an allowable soil bearing pressure of 1,500 psf in accordance with the presumptive soil bearing values permitted by IBC Section

1806.2 and Table 1806.2 for suitable supporting soils. This assumed bearing pressure is consistent with the value utilized for the original foundation design.

The proposed relocation site is within the same general climatic region as the original installation site, and the foundation configuration and support conditions are assumed to remain consistent with the original sealed foundation drawings. The foundation system consists of ABS foundation pads installed at grade in accordance with the original sealed foundation drawings and the manufacturer's installation requirements. Any site-specific requirements related to grading, drainage, flood hazard areas, accessibility, utilities, or other nonstructural site development items shall be addressed separately by others as required by the Authority Having Jurisdiction.

As summarized in Exhibit A, the governing structural design criteria applicable to the proposed relocation site are equivalent to those used for the original sealed foundation design. Accordingly, the original sealed foundation design remains applicable for the proposed relocation site. The proposed site does not impose structural design requirements that exceed those considered in the original foundation design.

This evaluation relies upon the original sealed foundation design as the basis for comparison. Bowman Consulting's services were limited to evaluating the applicability of that design to the proposed relocation site and did not include a redesign or independent structural analysis of the original foundation system.

This opinion is based on the following assumptions:

- The modular buildings remain unchanged from their original installation, including configuration, structural framing, dead loads, live loads, equipment loads, and occupancy.
- No modifications, additions, or alterations have been made that would increase structural loading.
- The original foundation configuration and anchorage details remain consistent with the original sealed drawings.
- The ABS foundation pads will be installed on properly prepared, level, undisturbed native soil or approved engineered fill capable of providing the assumed allowable soil bearing pressure of 1,500 psf.
- Existing field conditions and subsurface conditions at the proposed relocation site have not been independently verified by Bowman Consulting.

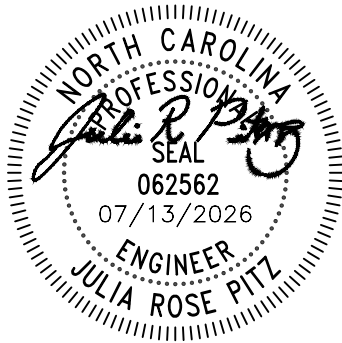
Because the foundation system utilizes surface-installed ABS foundation pads, no foundation excavations are anticipated as part of this installation. If unsuitable soils, undocumented fill, excessive settlement, or other conditions inconsistent with the assumptions of this evaluation are encountered during site preparation or installation, such conditions should be corrected prior to installation and, if necessary, brought to the attention of the Engineer of Record.

The conclusions presented herein are based solely on the documents identified in Exhibit B and the assumptions stated in this letter. No destructive testing, subsurface investigation, or independent structural analysis of the original foundation design was performed as part of this evaluation.

This evaluation is intended solely to demonstrate that the governing structural design criteria at the proposed relocation site are equivalent to those used in the original sealed foundation design and should not be construed as a redesign of the modular foundation system.

Should you have any questions, please do not hesitate to contact me.

Respectfully,



Julia Pitz, PE
Senior Structural Engineer
Bowman Consulting Group

Attachments:

Exhibit A – Structural Design Criteria Comparison
Exhibit B – Documents Reviewed

Exhibit A – Structural Design Criteria Comparison

Achievement Charter Academy – Modular Classroom Relocation
25 Buttonwood Court, Fuquay-Varina, NC

Design Parameter	Original Installation (3006 Summit Rd Goldsboro, NC)	Proposed Installation (25 Buttonwood Court Fuquay-Varina, NC)	Evaluation
Applicable Building Code	NC Building Code (IBC/ASCE 7-16)	NC Building Code (IBC/ASCE 7-16)	Equivalent
Occupancy	Educational	Educational	Same
Risk Category	IV	IV	Same
Ultimate Design Wind Speed (Vult)	130 mph	130 mph	Same
Wind Exposure Category	C	C	Same
Wind Governing Design	Yes	Yes	Same
Seismic Design Criteria	Reviewed	Reviewed	Wind remains the governing lateral design case. No increase in foundation design requirements.
Allowable Soil Bearing Pressure	1,500 psf	1,500 psf (assumed per IBC Section 1806.2, Table 1806.2)	Equivalent
Foundation System	ABS Foundation Pads	ABS Foundation Pads	Same
Foundation Configuration	Original Sealed Design	No Change	Same
Structural Framing	Original Modular Building	No Change	Same
Structural Loads	Original Design Loads	No Change Assumed	Same
Building Use	Classroom	Classroom	Same

Engineering Conclusion

Based on the comparison above, the governing structural design criteria applicable to the proposed relocation site are equivalent to those used for the original sealed foundation design. The proposed relocation site does not impose structural design requirements that exceed those considered in the original foundation design. Accordingly, the original sealed foundation design remains applicable for the proposed relocation site, subject to the assumptions and limitations described in the accompanying engineering letter.

Exhibit B – Documents Reviewed

The following documents were reviewed as part of this structural evaluation:

1. Original sealed structural foundation drawings for the modular classroom buildings (Wayne STEM Academy, Goldsboro, North Carolina). (DWG No. DBI-10735 A/K Sealed: 06/07/2023)
2. Original modular building approval documents and foundation details.
3. Proposed site plan for Achievement Charter Academy, 25 Buttonwood Court, Fuquay-Varina, North Carolina.
4. Site-specific hazard/design criteria report utilized to establish applicable wind and seismic design parameters.
5. Applicable North Carolina Building Code and referenced standards, including:
 - North Carolina Building Code
 - International Building Code (IBC)
 - ASCE/SEI 7-16, *Minimum Design Loads and Associated Criteria for Buildings and Other Structures*

ASCE Hazards Report

Address:

25 Buttonwood Ct
Fuquay Varina, North Carolina
27526

Standard:

ASCE/SEI 7-16

Risk Category: IV**Soil Class:**

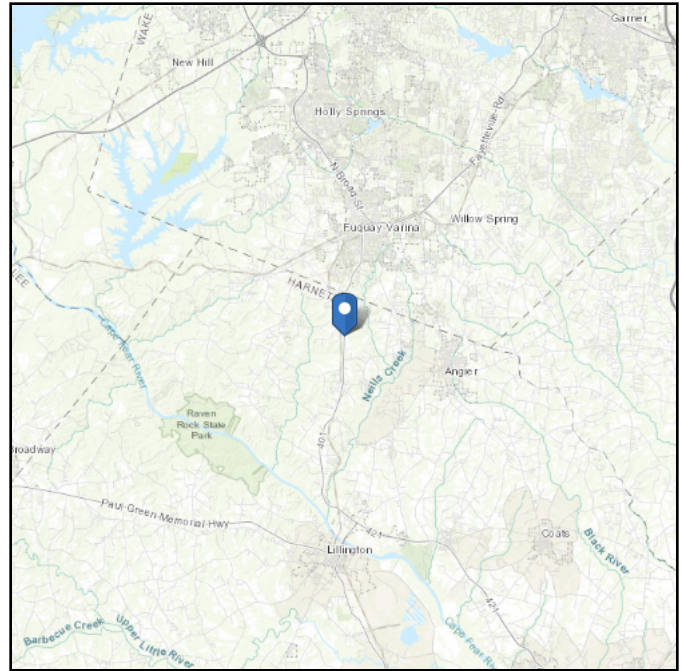
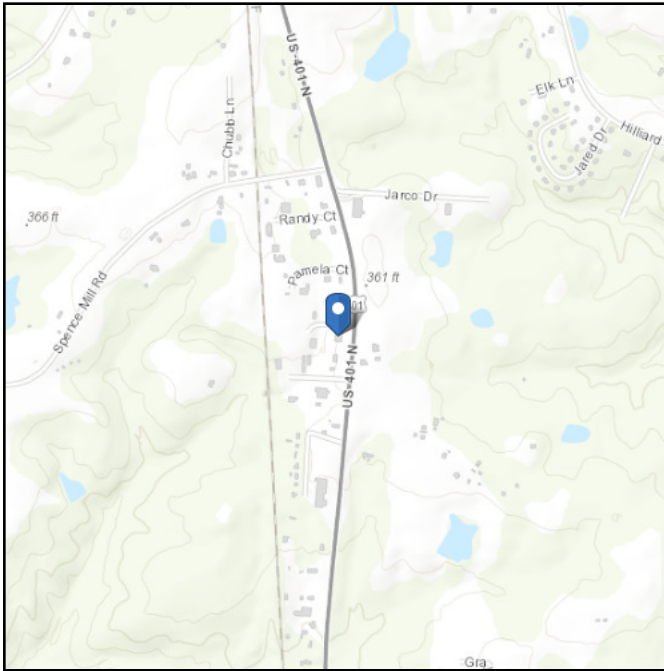
D - Default (see
Section 11.4.3)

Latitude:

35.52593

Longitude: -78.812856**Elevation:**

341.992827216736 ft (NAVD
88)



Wind

Results:

Wind Speed	130 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source:

ASCE/SEI 7-16, Fig. 26.5-1D and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed:

Mon Jul 06 2026

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 1.6% probability of exceedance in 50 years (annual exceedance probability = 0.00033, MRI = 3,000 years).

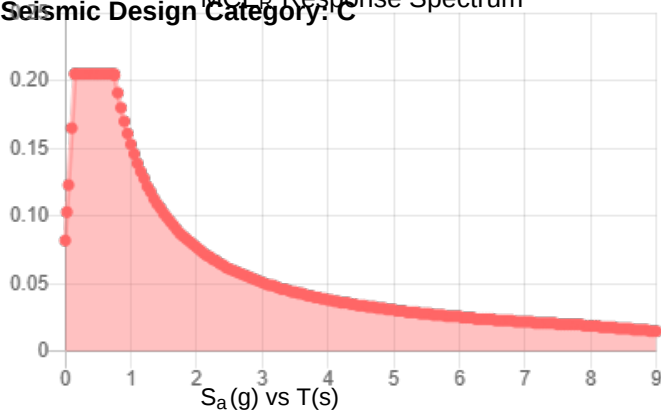
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Default (see Section 11.4.3)

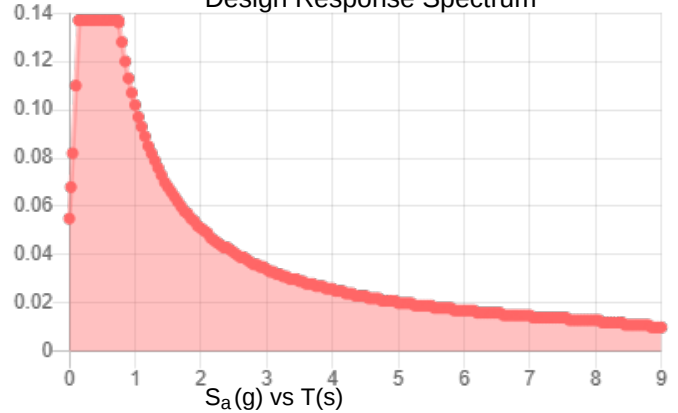
Results:

S_S :	0.128	S_{D1} :	0.102
S_1 :	0.064	T_L :	8
F_a :	1.6	PGA :	0.062
F_v :	2.4	PGA _M :	0.099
S_{MS} :	0.205	F_{PGA} :	1.6
S_{M1} :	0.153	I_e :	1.5
S_{DS} :	0.137	C_v :	0.7

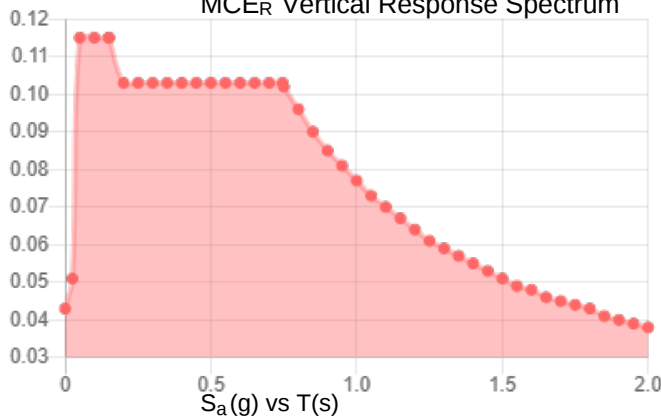
Seismic Design Category: C MCE_R Response Spectrum



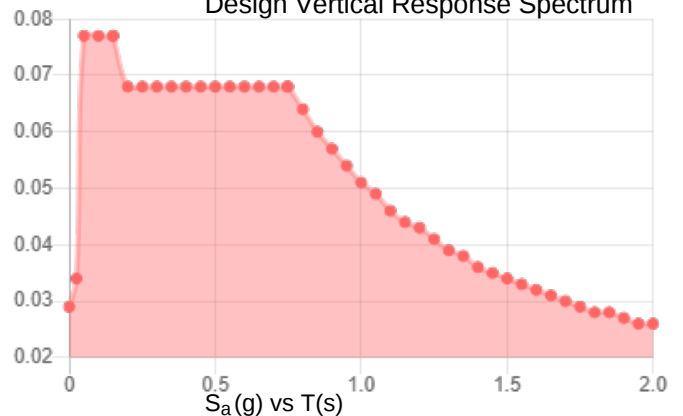
Design Response Spectrum



MCE_R Vertical Response Spectrum



Design Vertical Response Spectrum



Data Accessed: Mon Jul 06 2026

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.50 in.
Concurrent Temperature: 15 F
Gust Speed 30 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Mon Jul 06 2026

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Rain

Results:

15-minute Precipitation Intensity: 6.41 in./h

60-minute Precipitation Intensity: 3.38 in./h

Data Source: NOAA National Weather Service, Precipitation Frequency Data Server, Atlas 14
(<https://www.nws.noaa.gov/oh/hdsc/>)

Date Accessed: Mon Jul 06 2026

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: DBI-10735 NC
Location: Fuquay-Varina, North Carolina
Climate Zone: 4a
Project Type: New Construction
Vertical Glazing / Wall Area: 6%
Performance Sim. Specs: EnergyPlus 8.1.0.009 (EPW: USA_NC_Greensboro-Piedmont.Triad.Intl.AP.723170_TMY3.epw)

Construction Site:

Owner/Agent:

Designer/Contractor:

Building Area

Floor Area

1-School/University : Nonresidential

8341

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor ^(a)
Roof: Attic Roof, Wood Joists, [Bldg. Use 1 - School/University]	8341	48.0	0.0	0.021	0.021
Floor: Wood-Framed, [Bldg. Use 1 - School/University]	8341	26.0	0.0	0.038	0.033
NORTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - School/University]	1043	19.0	0.0	0.067	0.064
Window: Metal Frame: Operable, Perf. Specs.: Product ID label, SHGC 0.25, VT 0.54, [Bldg. Use 1 - School/University] (b)	90	---	---	0.340	0.460
EAST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - School/University]	512	19.0	0.0	0.067	0.064
Door: Insulated Metal, Swinging, [Bldg. Use 1 - School/University]	40	---	---	0.153	0.370
SOUTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - School/University]	1043	19.0	0.0	0.067	0.064
Window: Metal Frame: Operable, Perf. Specs.: Product ID label, SHGC 0.25, VT 0.54, [Bldg. Use 1 - School/University] (b)	90	---	---	0.340	0.460
WEST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - School/University]	512	19.0	0.0	0.067	0.064
Door: Insulated Metal, Swinging, [Bldg. Use 1 - School/University]	40	---	---	0.153	0.370

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Project Notes

Project Title: DBI-10735 NC

Data filename:

Report date: 07/21/26

Page 1 of 18

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date

This comcheck is provided to demonstrate compliance with the envelope and lighting requirements of the 2018 NCECC, which are equivalent to the 90.1-2016 requirements. The wall hung HVAC units are SPVAC with 11.0 EER which complies with table C403.2.3 (3)



Project Information

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-School/University	8341	0.81	6756
Total Allowed Watts =			6756

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixture	Fixture Watt.	(C X D)
<u>1-School/University</u>				
LED: Other:	1	2	13	26
Linear Fluorescent: 48" T8 25W (Super T8): Electronic:	2	134	44	5896
Total Proposed Watts =				5922

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: DBI-10735 NC
Project Type: New Construction
Exterior Lighting Zone: 3 (Other (LZ3))

Construction Site:

Owner/Agent:

Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Pedestrian and vehicular entrances and exits	6 ft of door	21	Yes	126
Pedestrian and vehicular entrances and exits	6 ft of door	21	Yes	126
Total Tradable Watts (a) =				252
Total Allowed Watts =				252
Total Allowed Supplemental Watts (b) =				500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>Pedestrian and vehicular entrances and exits (6 ft of door width): Tradable Wattage</u>				
LED: Other:	1	2	13	26
LED: Other:	1	2	13	26
Total Tradable Proposed Watts =				52

Exterior Lighting PASSES: Design 93% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date



COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: DBI-10735 NC
Location: Fuquay-Varina, North Carolina
Climate Zone: 4a
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

- 11 HVAC System (Single Zone):
Heating: 1 each - Other, Electric, Capacity = 34 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package Vertical AC Unit, Capacity = 36 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 11.00 EER, Required Efficiency = 10.00 EER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
- 1 Water Heater:
Electric Storage Water Heater, Capacity: 10 gallons
Proposed Efficiency: 3.00 SL, %/h (if > 12 kW), Required Efficiency: 3.00 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date



Inspection Checklist

Energy Code: 90.1 (2016) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 5.4.3.1.1, 5.7 [PR1] ¹	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
4.2.2, 6.4.4.2.1, 6.7.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
4.2.2, 7.7.1, 10.4.2 [PR3] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
4.2.2, 9.4.3, 9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
9.7 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.7.2.4 [PR5] ¹	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects $\geq 50,000$ ft ² .	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.5.4.2.3 [PR7] ²	In buildings $> 2,500$ ft ² , any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is $\geq$ half the floor area and (a) the skylight area to daylight zone is ≥ 3 percent with a skylight VT ≥ 0.40 or (b) the minimum skylight effective aperture ≥ 1 percent. The skylights have a measured haze value > 90 percent.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [FO1] ²	Installed below-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-_____	R-_____	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
4.2.4 [FO3] ²	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-_____ ☐ Unheated ☐ Heated	R-_____ ☐ Unheated ☐ Heated	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.5.3.5 [FO5] ²	Slab edge insulation depth/length.	_____ ft	_____ ft	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.8.1.7 [FO6] ¹	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.8.1.7.3 [FO7] ¹	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.7 [FO9] ³	Freeze protection and snow/ice melting system sensors for future connection to controls.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.4.1.5 [FO11] ³	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	R-_____	R-_____	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.

Additional Comments/Assumptions:

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1] ³	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.4.3.4 [FR4] ³	Vestibules are installed where building entrances separate conditioned space from the exterior, and meet exterior envelope requirements. Doors have self-closing devices, and are ≥ 7 ft apart (≥ 16 ft apart for adjoining floor area ≥ 40000 sq.ft.). Vestibule floor area ≤ 750 sq.ft. or 2 percent of the adjoining conditioned floor area.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.5.4.3a [FR8] ¹	Vertical fenestration U-Factor.	U-____	U-____	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.5.4.3b [FR9] ¹	Skylight fenestration U-Factor.	U-____	U-____	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.1 [FR10] ¹	Vertical fenestration SHGC value.	SHGC:____	SHGC:____	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.2 [FR11] ¹	Skylight SHGC value.	SHGC:____	SHGC:____	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5 [FR12] ²	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.8.2.2 [FR13] ¹	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.5.3.6 [FR14] ²	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-____ ☐ Swinging ☐ Nonswinging	U-____ ☐ Swinging ☐ Nonswinging	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.4.3.1 [FR15] ¹	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
7.4.4.1 [PL2] ³	Temperature controls installed on service water heating systems (<=120°F to maximum temperature for intended use).	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
7.4.6 [PL4] ³	Heat traps installed on non-circulating storage water tanks.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4, 6.4.1.5 [ME1] ²	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency: _____	Efficiency: _____	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Mechanical Systems list for values.
6.4.3.4.1 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.4.2, 6.4.3.4.3 [ME4] ³	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.4.5 [ME39] ³	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.4.4 [ME5] ³	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.8 [ME6] ¹	Demand control ventilation provided for spaces >500 ft ² and >25 people/1000 ft ² occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.3.2.1 [ME40] ²	DX cooling systems ≥ 75 kBtu/h (≥ 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp ≥ ¼ designed to vary supply fan airflow as a function of load and comply with operational requirements.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Mechanical Systems list for values.
6.4.4.1.1 [ME7] ³	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.4.1.2 [ME8] ²	HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R- _____	R- _____	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.4.1.3 [ME9] ²	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	_____ in.	_____ in.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.4.1.4 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq$ R-3.5.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.4.2.1 [ME10] ²	Ducts and plenums having pressure class ratings are Seal Class A construction.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.8.1-15, 6.8.1-16 [ME110] ²	Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.2.3 [ME19] ³	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.2.4.1 [ME68] ³	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.2.4.2 [ME69] ³	Humidification system dispersion tube hot surfaces in the airstreams of ducts or air-handling units insulated $\geq$ R-0.5.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.2.5 [ME70] ³	Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.2.6 [ME106] ³	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Mechanical Systems list for values.
6.5.4.2 [ME25] ³	HVAC pumping systems with ≥ 3 control valves designed for variable fluid flow (see section details).			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.6.1 [ME56] ¹	Exhaust air energy recovery on systems meeting Tables 6.5.6.1-1, and 6.5.6.1-2.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.7.2.1 [ME32] ²	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.7.2.4 [ME49] ³	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.8.1 [ME34] ²	Unenclosed spaces that are heated use only radiant heat.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
7.4.2 [ME36] ²	Service water heating equipment meets efficiency requirements.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.9 [ME63] ²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.5.10 [ME73] ³	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
8.4.3 [EL11] ²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.4.1.1 [EL1] ²	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.4.1.1 [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.4.1.1f [EL13] ¹	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.4.1.4 [EL3] ²	Automatic lighting controls for exterior lighting installed.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.4.1.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
10.4.1 [EL9] ²	Electric motors meet requirements where applicable.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [IN2] ¹	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	R-____ ☐ Above deck ☐ Metal ☐ Attic	R-____ ☐ Above deck ☐ Metal ☐ Attic	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2, 5.8.1.3 [IN3] ¹	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
4.2.4 [IN6] ¹	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2 [IN7] ¹	Above-grade wall insulation installed per manufacturer's instructions.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
4.2.4 [IN8] ²	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Steel ☐ Wood	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2 [IN9] ²	Floor insulation installed per manufacturer's instructions.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.8.1.1 [IN10] ²	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.8.1.9 [IN18] ²	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.8.1.4 [IN11] ²	Eaves are baffled to deflect air to above the insulation.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.8.1.5 [IN12] ²	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.8.1.6 [IN13] ²	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7.1 [IN15] ²	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.8.1.7.2 [IN16] ²	Foundation vents do not interfere with insulation.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
5.8.1.8 [IN17] ³	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1] ¹	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.1.2 [FI3] ³	Thermostatic controls have a 5 °F deadband.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.2 [FI20] ³	Temperature controls have setpoint overlap restrictions.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.3.1 [FI21] ³	HVAC systems equipped with at least one automatic shutdown control.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.3.2 [FI22] ³	Setback controls allow automatic restart and temporary operation as required for maintenance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.4.3.6 [FI6] ³	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.7.2.1 [FI7] ³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.7.2.2 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.7.2.3 [FI9] ¹	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
6.7.2.4 [FI10] ¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
7.4.4.3 [FI11] ³	Public lavatory faucet water temperature <=110°F.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Interior Lighting fixture schedule for values.
9.4.2 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Exterior Lighting fixture schedule for values.
9.4.4 [FI20] ¹	At least 75% of all permanently installed lighting fixtures in dwelling units have ≥ 55 lm/W efficacy or a ≥ 45 lm/W total luminaire efficacy.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
10.4.3 [FI24] ²	Elevators are designed with the proper lighting, ventilation power, and standby mode.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
7.4.3 [FI45] ²	First 8 ft of outlet piping in nonrecirculating storage system, or branch piping connected to recirculated, heat traced, or impedance heated piping is insulated.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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