

CODE SUMMARY:						
STATE	BUILDING	ELEC.	MECH.	PLUMB.	ACCESS.	ENERGY
AL	2015 IBC	2014 NEC	2015 IMC	2015 IPC	2010 ADASAD	2015 IECC
AR	2012 AFPC VOL 1 (2012 IBC W/ AMENDMENTS)	2017 NEC W/ AR AMEN.	2010 AMC (2009 IMC W/ AMEND.)	2006 APC (2006 IPC W/ AMEND.)	ANSI A117.1-2009	2014 AECC (2009 IECC W/ AMEND.)
GA	2018 IBC W/ GA 2020 & 2022 AMEND. 2018 NFPA 101 120-3-3 2018 IFC W/ GA AMEND.	2020 NEC w/ 2021 AMEND.	2018 IMC GA 2020 AMEND.	2018 IPC W/ GA 2020, 2022 & 2023 AMEND.	2010 ADA GA CODE CH 120-3-20	2015 IECC W/ GA 2020, 2022 & 2023 AMEND.
LA	2021 IBC W/ AMENDMENTS 2015 NFPA 101	2020 NEC W/ AMEND.	2021 IMC W/ AMEND.	2021 IPC W/ AMEND.	2010 ADASAD	ASHRAE 90.1-2007
MD	2018 IBC W/ MD AMEND. 2018 NFPA 101 LIFE SAFETY CODE	2017 NEC W/ MD AMEND.	2018 IMC	2018 IPC W/ MD AMEND.	2012 M.A.C. 2010 ADA	2018 IECC W/ MD AMEND.
MS	2015 IBC	2014 NEC	2015 IMC	2015 IPC	2010 ADA,09/ANSI A117.1-09	ASHRAE 90.1-2010
MO	2015 IBC	2014 NEC	2015 IMC	2015 IPC	2015 IBC CHAPTER 11 / ADA	2015 IECC
NC	NCBC 2018 2018 NCFE	2017 NC ELECTRIC CODE	2018 NCMC	2018 NCPD	NCBC 2012 CHPT.11 & ICC/ANSI A117.1-2009	2018 NC ENERGY CODE
NJ	2021 IBC W/ NJ AMENDS	2020 NEC W/ NJ AMENDS	2021 IMC W/ NJ AMENDS	2021 NATL. STD PC (NSPC) W/ NJ AMENDS	CHPT.11 OF 2018 IBC & NJAC 5.32-7 ANSI A117.1-2017	2019 ASHRAE 90.1 W/ NJ AMENDS
OK	2018 IBC	2017 NEC	2018 IMC	2018 IPC	2010 ADA	2018 IECC
PA	PAUCC 2018 W/AMENDS.	2014 NEC	2018 IMC	2018 IPC	ICC/ANSI A117.1-09 2015 IBC CHAPTER 11 & APPENDIX E	2018 IECC W/AMENDS.
SC	2021 IBC W/ SC AMEND. 2021 IFC W/ SC AMEND.	2020 NEC W/ SC AMEND.	2021 IMC W/ SC AMEND.	2021 IPC W/ SC AMEN.	ICC / ANSI A117.1-2017	2009 IECC
TX	2015 INTERNATIONAL BUILDING CODE INCLUDING APPENDICES C, F AND K.	2014 NEC	2015 IMC	2015 IPC INCLUDING APPENDICES C, E AND G.	2012 TAS 2010 ADA	2015 IECC
VA	2018 VA UNIFORM STATEWIDE BLDG CODE, 2018 IBC, 2018 IFC W/ VA AMEND.	2017 IMC W/ VA AMEND.	2018 IMC W/ VA AMEND.	2018 IMC W/ VA AMEND.	2010 ADA, 2009 ANSI A117.1 W/ VA AMEND.	2018 IECC
WV	2018 IBC W/ AMEN., 2018 NFPA 1 & 101 W/ AMEND.	2020 NEC W/ AMEN.	2018 IMC W/ AMEN.	2018 IPC	ICC / ANSI A117.1-2017	ASHRAE 90.1-2013

NOTE: PA L&I APPROVAL / CERTIFICATION IS BY OTHERS.

### BUILDING DESIGN PARAMETERS

- USE / OCCUPANCY: EDUCATION
- CONSTRUCTION TYPE: VB
- SPRINKLER SYSTEM: NFPA-13 (SITE INSTALLED)
- NUMBER OF MODULES: 4
- BUILDING AREA: 3,608 SQ FT
- OCCUPANT LOAD: ( 140 ) BASED ON 20 SQ FT NET PER OCCUPANT IN CLASSROOMS.
- BUILDING HEIGHT: < 15 FEET
- NUMBER OF STORIES: 1
- EXTERIOR WALL FIRE RATING: N/A
- THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY TABLE 602 AND SECTION 705.3.
- ENERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS
- MANUFACTURERS DATA PLATE, STATE LABELS AND THIRD PARTY LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

MARLYLAND PLAN NO.: DBI-10407 MD

MARYLAND SERIAL NO.: 10407A, 10407B, 10407C, 10407D

APPROVED—STATE OF GEORGIA  
INDUSTRIALIZED BUILDINGS PROGRAM  
DESIGN APPROVAL AGENCY: EMC

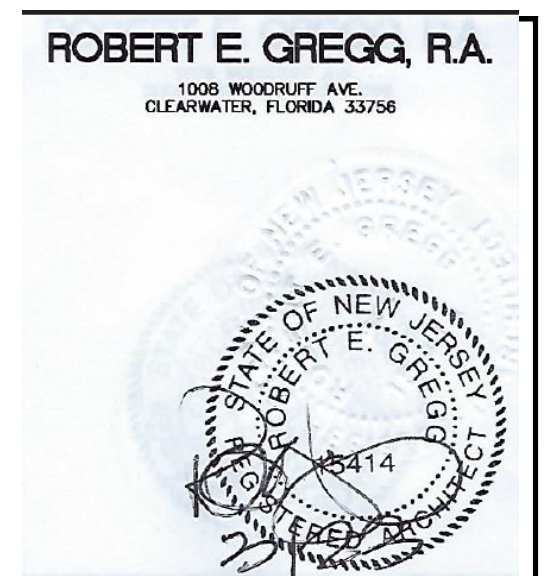
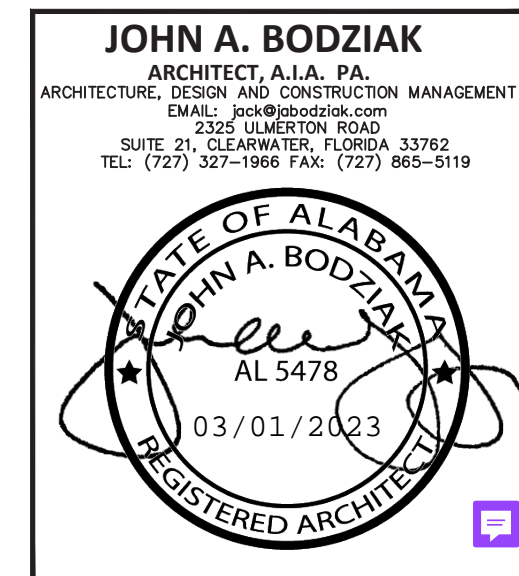
CONST. TYPE VB  
OCCUPANCY EDU  
FLOOR LL (PSF) 40  
WIND VELOCITY (MPH) 150/116  
SEISMIC DESIGN CATEGORY C  
EXTERIOR WALL FIRE RATING (HRS) 0  
PLAN NUMBER DBI-10407  
APPROVAL DATE 3/1/2023

**EMC**

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- 7 OF 14 MECHANICAL
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- 1 OF 1 KIP LOADS FOUND.

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL  
This document is approved pursuant to the Industrialized Housing and Buildings Act.  
DRA No. 24 - IBC - IRC  
Date: 03 01 2023  
DRA Signature: *[Signature]*



STATE OF TEXAS ENGINEERING FIRM # F-23404

**DIAMOND BUILDERS, INC.**  
440 THOMPSON DRIVE  
DOUGLAS, GA 31535  
PHONE# 912-384-7080

DATE: 1-31-23 ENGINEERS: JAMES ALLEN CHAPMAN, P.E.  
SCALE: N-T-S KENNETH EARL DUNMON, P.E.  
CODES: AL, AR, GA, LA, MD, MO, MS, NC, NJ, OK, PA, SC, TX, WV, VA  
DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION  
COVER SHEET PAGE: 1 / 14

**ASCE7-16 STRUCTURAL LOAD LIMITATIONS**

FLOOR LIVE LOAD:  
 A. DEAD LOAD = 12 PSF (AVERAGE).  
 B. UNIFORM LIVE LOAD = 40 PSF, 100 PSF IN CORRIDORS  
 C. CONCENTRATED LOAD (ALTERNATE) = 1,000 LB, OVER 30"x30" AREA AT ANY LOCATION.  
 ROOF LIVE LOAD:  
 A. DEAD LOAD = 15 PSF (AVERAGE).  
 B. LIVE LOAD = 30 PSF.  
 ROOF SNOW LOAD:  
 A. GROUND SNOW LOAD: Pg = 40 PSF  
 B. FLAT-ROOF SNOW LOAD Pf = 30.8 PSF  
 C. SNOW EXPOSURE FACTOR Ce = 1.0  
 D. SNOW IMPORTANCE FACTOR Is = 1.0  
 E. SNOW THERMAL FACTOR Ct = 1.1  
 F. ROOF SLOPE FACTOR Cs = 1.0  
 G. SLOPED ROOF SNOW LOAD Ps = 20 PSF Ps = Pf x Cs  
 H. Pm = 20 PSF LOW-SLOPE SNOW LOAD Pm = Pg x Is  
 I. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-16.  
 WIND LOAD: ASCE 7-16  
 A. BASIC WIND SPEED (3 SEC GUST) 150 MPH  
 B. ASD WIND SPEED (3 SEC GUST) 116 MPH  
 C. RISK CATEGORY II  
 D. WIND EXPOSURE CATEGORY C  
 E. INTERNAL PRESSURE COEFFICIENT GCpi= 0.18  
 F. COMPONENT & CLADDING BASIC DESIGN PRESSURES, ASD DESIGN PRESSURE FOR ROOF 0 TO 7 DEGREES.  
 WALL ZONE 5: P = +/- 65.6 psf (Pasd = +/- 39.3 PSF)  
 WALL ZONE 4: P = +/- 53.1 psf (Pasd = +/- 31.9 PSF)  
 ROOF ZONE 3: P = - 140.2 psf (Pasd = - 84.1 PSF)  
 ROOF ZONE 2: P = - 103.0 psf (Pasd = - 61.8 PSF)  
 ROOF ZONE 1: P = - 78.0 psf (Pasd = - 46.8 PSF)  
 ROOF ZONE 1': P = - 44.8 psf (Pasd = - 26.9 PSF)  
 G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.  
 H. BUILDING DESIGN IS BASED ON "ENCLOSED" CLASSIFICATION.  
 I. BUILDING MEAN ROOF HEIGHT SHALL NOT EXCEED 15 FEET.  
 SEISMIC LOAD:  
 A. RISK CATEGORY II  
 B. SEISMIC IMPORTANCE FACTOR Ie = 1.0  
 C. SITE CLASS D  
 D. SPECTRAL RESPONSE COEFFICIENTS:  
 Ss = < 0.159 S1 = < 0.073 Sds = < 0.17 Sd1 = < 0.118  
 E. SEISMIC DESIGN CATEGORY C  
 F. SEISMIC FORCE RESISTING SYSTEM A13  
 G. SIMPLIFIED SEISMIC ANALYSIS PROCEDURE HAS BEEN USED.  
 H. RESPONSE MODIFICATION FACTOR R = 6.5  
 I. V = 626 LB DESIGN BASE SHEAR PER MODULE  
 FLOOD LOAD:  
 THE MODULAR BUILDING UNITS ARE NOT DESIGNED TO BE SUBMERGED OR SUBJECTED TO WAVE ACTION. IF INSTALLED IN A FLOOD PLAIN, THE MODULAR BUILDING UNITS MUST BE INSTALLED ABOVE THE MINIMUM BASE FLOOD ELEVATION DERIVED FROM APPROPRIATE FLOOD ELEVATION MAPS FOR FLOOD LOADS.  
 ROOF RAIN LOAD:  
 A. RAIN INTENSITY: i = 4.7 INCHES / HOUR (60 MPI).

**ASCE7-10 STRUCTURAL LOAD LIMITATIONS**

FLOOR LIVE LOAD:  
 A. 40 PSF, 100 PSF IN CORRIDORS  
 B. 1000 LB CONCENTRATED LOAD OVER 30"x30" AREA AT ANY LOCATION  
 ROOF LIVE LOAD:  
 A. 30 PSF  
 ROOF SNOW LOAD:  
 A. Pg = 40 PSF GROUND SNOW LOAD  
 B. Pf = 30.8 PSF FLAT ROOF SNOW LOAD  
 C. Ce = 1.0 SNOW EXPOSURE FACTOR  
 D. Is = 1.0 SNOW IMPORTANCE FACTOR  
 E. Ct = 1.1 SNOW THERMAL FACTOR  
 F. Cs = 1.0 ROOF SLOPE FACTOR  
 G. Ps = 20 PSF SLOPED ROOF SNOW LOAD Ps = Pf x Cs  
 H. Pm = 20 PSF LOW-SLOPE SNOW LOAD Pm = Pg x Is  
 I. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-10.  
 WIND LOAD: ASCE 7-10  
 A. 150 MPH Vult ULTIMATE WIND SPEED  
 B. 116 MPH Vasd NOMINAL WIND SPEED  
 C. II RISK CATEGORY  
 D. C WIND EXPOSURE CATEGORY  
 E. GCpi= 0.18 INTERNAL PRESSURE COEFFICIENT  
 F. COMPONENT & CLADDING PRESSURES (ROOF <7 °)  
 WALL ZONE 5: Pult = +/- 65.6 psf (Pasd = +/- 39.3 PSF)  
 WALL ZONE 4: Pult = +/- 53.1 psf (Pasd = +/- 31.9 PSF)  
 ROOF ZONE 3: Pult = - 123.7 psf (Pasd = - 74.2 PSF)  
 ROOF ZONE 2: Pult = - 82.2 psf (Pasd = - 49.3 PSF)  
 ROOF ZONE 1: Pult = - 49.0 psf (Pasd = - 29.4 PSF)  
 G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.  
 H. BUILDING DESIGN IS BASED ON "ENCLOSED" CLASSIFICATION.  
 I. BUILDING MEAN ROOF HEIGHT SHALL NOT EXCEED 15 FEET.  
 SEISMIC LOAD:  
 A. II RISK CATEGORY  
 B. Ie = 1.0 SEISMIC IMPORTANCE FACTOR  
 C. D SITE CLASS  
 D. SPECTRAL RESPONSE COEFFICIENTS:  
 Ss = < 0.361 S1 = < 0.162 Sds = < 0.364 Sd1 = < 0.233  
 E. C SEISMIC DESIGN CATEGORY  
 F. A13 SEISMIC FORCE RESISTING SYSTEM  
 G. SIMPLIFIED SEISMIC ANALYSIS PROCEDURE HAS BEEN USED.  
 H. R = 6.5 RESPONSE MODIFICATION FACTOR  
 I. V = 250 LB DESIGN BASE SHEAR PER MODULE  
 FLOOD LOAD:  
 THE MODULAR BUILDING UNITS ARE NOT DESIGNED TO BE SUBMERGED OR SUBJECTED TO WAVE ACTION. IF INSTALLED IN A FLOOD PLAIN, THE MODULAR BUILDING UNITS MUST BE INSTALLED ABOVE THE MINIMUM BASE FLOOD ELEVATION DERIVED FROM APPROPRIATE FLOOD ELEVATION MAPS FOR FLOOD LOADS.

**NORTH CAROLINA NOTES:**

- THIS BUILDING HAS NOT BEEN DESIGNED FOR COASTAL HAZARD AREAS, OCEAN HAZARD OR REGULATORY FLOOD PLAIN AREAS.
- THE CLIMATE ZONE IS 3 OR 4.
- ALL OPAQUE EXTERIOR DOORS SHALL HAVE A U-VALUE OF 0.292 OR LESS.
- ALL EXTERIOR GLAZING SHALL HAVE A U-VALUE OF 0.45 OR LESS AND A SHGC OF 0.24 OR LESS.

GA : COMPLIANCE WITH LOCAL REQUIREMENTS

RULE 110-2-4-03: ALL INDUSTRIAL BUILDINGS BEARING AN INSIGNIA OF APPROVAL ISSUED BY THE COMMISSIONER PURSUANT TO THESE RULES SHALL BE HELD TO COMPLY WITH THE REQUIREMENTS OF ALL ORDINANCES OR REGULATIONS ENACTED BY ANY LOCAL GOVERNMENT WHICH ARE APPLICABLE TO THE MANUFACTURE AND INSTALLATION OF SUCH BUILDINGS. THE DETERMINATION BY THE COMMISSIONER OF THE SCOPE OF SUCH APPROVAL IS FINAL.

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL  
 This document is approved pursuant to the Industrialized Housing and Buildings Act.  
 DRA No. 21-IBC-IFRC  
 Date: 03 01 2023  
 DRA Signature: *[Signature]*




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STATE OF TEXAS ENGINEERING FIRM # F-23404

**DIAMOND BUILDERS, INC.**  
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DATE: 1-31-23	ENGINEERS: JAMES ALLEN CHAPMAN, P.E.
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DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION	
STRUCT. LOADS	PAGE: 2 / 14

**GENERAL NOTES:**

- 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.
- 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.
- 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, TEMPERED OR ACRYLIC PLASTIC SHEET.
- SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTION REQUIREMENTS.
- PORTABLE FIRE EXTINGUISHERS PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
- PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
- WHEN LOW SIDES OF ROOF PROVIDE LESS THAN 6 INCHES OF OVERHANG, GUTTERS AND DOWNSPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
- STRAPPING MUST BE TESTED AND / OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
- STRUCTURAL DETAILS NOT INCLUDED IN THIS PLAN SET ARE TO BE CONSTRUCTED ACCORDING TO THE MANUFACTURER'S BUILDING SYSTEM MANUAL.
- 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 FBC. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
- PLAN REVIEW AND INSPECTION REQUIRED BY CHAPTER 633 F.S. TO BE COMPLETED ON SITE BY LOCAL FIRE INSPECTOR.
- THIS STRUCTURE CAN NOT BE LOCATED ON THE SEAWARD SIDE OF THE COASTAL CONSTRUCTION CONTROL LINE.
- ALL CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THESE DRAWINGS.
- THESE PLANS INCLUDE DESIGN FOR THE FACTORY BUILT PORTION OF THE MODULAR STRUCTURE AND PORTIONS OF THE SITE BUILT CONSTRUCTION. THESE PLANS AND DESIGN PLANS FOR ALL ELEMENTS DESIGNATED TO BE DESIGNED BY OTHERS AND/OR SITE INSTALLED MUST BE SUBMITTED TO AND REVIEWED BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (DESIGNER OF RECORD) FOR COMPATIBILITY WITH THE DESIGN OF THE OVERALL BUILDING PROJECT AS REQUIRED BY THE APPLICABLE CODES AND LAWS.
- ALL PARTIES RESPONSIBLE FOR DESIGN WORK SHALL BE QUALIFIED AND LICENSED AS REQUIRED BY THE JURISDICTIONS HAVING AUTHORITY OR SHALL RETAIN SUCH QUALIFIED AND LICENSED ENTITIES TO PERFORM SUCH WORK.
- TRANSPORTATION AND ERECTION OF THIS BUILDING IS DESIGNED BY OTHERS. DESIGNER OF THESE PLANS HAS NOT EVALUATED ANY TRANSPORTATION AND/OR LIFTING ELEMENTS SHOWN IN THESE PLANS. THESE ITEMS MUST BE EVALUATED BY TRANSPORTATION AND ERECTION DESIGNER FOR SUITABILITY.

**PLUMBING NOTES:**

- THE USE OF THIS BUILDING WITHOUT THE REQUIRED PLUMBING FACILITIES IS SUBJECT TO THE APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
- CUSTOMER ASSUMES ALL RESPONSIBILITY FOR REQUIRED PLUMBING FACILITIES WHEN NOT SHOWN ON THE PLANS.

**ACCESSIBILITY NOTES:**

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOMS FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
- WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS AND DRAWERS ARE PROVIDED AT LEAST ONE TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (IE TROUGH LATCHES, U-SHAPED PULLS); SPACES SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR FOR FORWARD REACH OR SIDE REACH; CLOTHES RODS OR COATS HOOKS SHALL BE A MAXIMUM OF 48 INCHES ABOVE THE FLOOR (46 INCHES MAXIMUM WHEN DISTANCE FROM WHEEL CHAIR TO ROD EXCEEDS 10 INCHES). SHELVES IN KITCHEN OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE FLOOR.
- CONTROLS, DISPENSER, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
- WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER.
- 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 MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NO EXCEED 5 POUNDS FOR ALL SLIDING, FOLDING AND INTERIOR HINGED DOORS.
- 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 INCH MAXIMUM. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCHES WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
- ACCESSIBLE WATER CLOSETS 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 AND 41 INCHES FROM THE REAR WALL.
- DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (IE LEVER OPERATED, PUSH TYPE, U SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.

**ELECTRICAL NOTES:**

- ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATED ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
- WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT 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 410.2.
- WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE THE 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.
- 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 DISCONNECTION MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
- PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110.9 & 110.10 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
- THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
- ALL CIRCUITS CROSSING OVER THE MODULE MATE LINE SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES OR CABLE CONNECTORS.
- ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED. THE RECEPTACLE ITSELF SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AS PER NEC.
- EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
- ALL 120V, 15 OR 20 AMP RECEPTACLES TO BE TAMPER RESISTANT.
- IF REQUIRED OCCUPANT SENSORS FOR LIGHTING ARE NOT FACTORY INSTALLED THEN THEY SHALL BE SITE INSTALLED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
- AUTOMATIC RECEPTACLE CONTROLS, IF REQUIRED, SHALL BE PROVIDED AND SITE INSTALLED PER THE REQUIREMENTS OF 2021 IECC SECTION C405.1.11.1 SUBJECT TO THE REVIEW AND APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
- (NJ) OCCUPANCY SENSOR SWITCHES SHALL PROVIDE A BI-LEVEL LIGHTING CONTROL TO PROVIDE EITHER CONTINUOUS DIMMING, OR AT LEAST ONE INTERMEDIATE STEP IN LIGHTING POWER BETWEEN 30% & 70% OF FULL POWER IN ADDITION TO FULL ON AND FULL OFF.
- THE BUILDING'S 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.
- FEEDER CONDUCTOR AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP.

**MECHANICAL NOTES:**

- ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES X 24 INCHES ADJUSTABLE WITH 18 INCHES X 8 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R-6 MINIMUM INSULATION. SUPPLY DUCTS EXPOSED TO VENTILATED ATTICS SHALL HAVE MINIMUM R-6 INSULATION.
- INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND / OR AS NOTED ON FLOOR PLAN (FOR NON-FIRE RATED DOORS).
- HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES PROVIDING 10 CFM PER PERSON AND 0.12 CFM PER SQUARE FOOT OF BUILDING AREA PER IBC.
- VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
- EXHAUST FANS SHALL PROVIDE A MINIMUM OF 70 CFM FOR EACH WATER CLOSET AND URINAL.
- EXHAUST FANS SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL AIR INTAKE.
- THERMOSTATS ARE TO BE PROGRAMMABLE.
- HEATING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN TEMPERATURES ABOVE AN ADJUSTABLE HEATING SETPOINT AT LEAST 10° F BELOW THE OCCUPIED HEATING SETPOINT. COOLING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE MECHANICAL COOLING SYSTEM AS REQUIRED TO MAINTAIN TEMPERATURES BELOW AN ADJUSTABLE COOLING SETPOINT AT LEAST 5° F ABOVE THE OCCUPIED COOLING SET POINT OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.
- HVAC SYSTEMS MUST BE BALANCED IN ACCORDANCE WITH ACCEPTED PRACTICE.
- PERMISSIBLE GAS TYPE FOR APPLIANCES: NONE (ALL ELECTRIC).

**SITE INSTALLED ITEMS**

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 THE LOCAL JURISDICTION APPROVAL.

- THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
- RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
- PORTABLE FIRE EXTINGUISHER(S).
- BUILDING DRAINS, CLEANOUTS, AND HOOK UP TO PLUMBING SYSTEM.
- ELECTRICAL SERVICE HOOK UP (INCLUDING FEEDERS) TO THE BUILDING.
- GLAZED OPENING PROTECTION (SEE GENERAL NOTES)
- GUTTERS AND DOWNSPOUTS
- HANDICAP TACTILE SIGNAGE
- CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINES.
- STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNIT).
- VTR EXTENSIONS.
- FIRE ALARM SYSTEM AND AUTOMATIC SPRINKLER SYSTEM.

**WINDOW AND DOOR SPECIFICATIONS**

- DOUBLE PANE / INSULATED WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U-FACTOR VALUE AND SOLAR HEAT GAIN COEFFICIENT (SHGC).
- THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.3 CFM PER SQUARE FOOT OF WINDOW AREA.
- THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.3 CFM PER SQUARE FOOT OF DOOR AREA.

**SPECIAL CONDITIONS AND/OR LIMITATIONS**

- THE BUILDING DESIGN HAS BEEN APPROVED FOR USE ONLY IN THOSE AREAS WITHIN THE SCOPE OF THE STRUCTURAL LOAD LIMITATIONS AND CLIMATE DESIGN CRITERIA INDICATED BELOW.
- SEE THE BUILDING SITE INSTALLATION REQUIREMENT NOTES FOR WORK REQUIRING ON-SITE INSPECTIONS.
- VENTILATION OF THE RAFTER OR ATTIC SPACE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING OFFICIAL.
- THE BUILDING DESIGN HAS NOT BEEN EVALUATED FOR COMPLIANCE WITH THE TDI WINDSTORM INSPECTION PROGRAM REQUIREMENTS.

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL  
This document is approved pursuant to the Industrialized Housing and Buildings Act.  
DRA No. 21-IBC-IFC  
Date: 03/01/2023  
DRA Signature: *[Signature]*

**EMC** APPROVED  
03/01/2023

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**STATE OF ALABAMA**  
REGISTERED ARCHITECT  
AL 5478  
03/01/2023

**ROBERT E. GREGG, R.A.**  
1008 WOODRUFF AVE.  
CLEARWATER, FLORIDA 33756

STATE OF TEXAS ENGINEERING FIRM # F-23404

**DIAMOND BUILDERS, INC.**  
440 THOMPSON DRIVE  
DOUGLAS, GA 31535  
PHONE# 912-384-7080

DATE: 1-31-23	ENGINEERS: JAMES ALLEN CHAPMAN, P.E.
SCALE: N-T-S	KENNETH EARL DUNNOM, P.E.
CODES: AL, AR, GA, LA, MD, MO, MS, NC, NJ, OK, PA, SC, TX, WV, VA	
DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION	
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**MARYLAND NOTES:**

- REFER TO STATE PACKAGE PAGE NO. C34.0 FOR REQUIRED DUCT PROTECTION AT CONNECTION TO HVAC UNIT.
- THE FOLLOWING NOTE SHALL BE ON THE BLDG. DATA PLATE: THIS BUILDING HAS NOT BEEN DESIGNED FOR AND IS NOT APPROVED FOR INSTALLATION IN THE FOLLOWING MARYLAND COUNTIES: ALLEGANY & HOWARD.
- HVAC SYSTEM SHALL COMPLY WITH NFPA 90B WHEN BUILDING VOLUME DOES NOT EXCEED 25,000 CUBIC FEET, OTHERWISE HVAC SYSTEM SHALL COMPLY WITH NFPA 90A.
- THESE PLANS ARE PREPARED TO FACILITATE CONSTRUCTION OF THE PRE-ENGINEERED FACTORY BUILT MODULAR BUILDING, AND THEY INCLUDE MINIMUM ON-SITE SUPPORT AND TIE DOWN REQUIREMENTS FOR THE MODULAR BUILDING. THE PROJECT ARCHITECT OF RECORD IS RESPONSIBLE FOR INCORPORATION AND COORDINATION OF THESE PLANS INTO THE OVERALL PROJECT DESIGN.
- TO LOCAL BUILDER AND/OR SITE DEVELOPER: ALL SITE WORK INCLUDING THE LOCATION OF THE BUILDING, IS REQUIRED TO BE REVIEWED AND APPROVED BY A MD. REG. ARCH. OR ENG. TO VERIFY CODE COMPLIANCE INCLUDING BUT NOT LIMITED TO FIRE RESISTANCE RATINGS FOR EXTERIOR PROTECTION, MEANS OF EGRESS, HEIGHT AND AREA LIMITATIONS, OTHER PERTINENT SITE RELATED MATTERS, DOCUMENTS RELATED TO SITE WORK, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERNMENT AGENCY FOR REVIEW AND APPROVAL.
- INSTALL STATE INSIGNIA AND BUILDING DATA PLATE IN THE VICINITY OF ELECTRICAL DISTRIBUTION PANEL OR OTHER LOCATION THAT IS READILY ACCESSIBLE FOR INSPECTION, BUT NOT ON ANY READILY REMOVABLE FEATURE.
- WHEN THE 2018 IECC IS THE APPLICABLE ENERGY CODE, SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH A MINIMUM OF R-8 INSULATION. IN CLIMATE ZONES 1 THRU 4 AND A MINIMUM OF R-12 INSULATION. IN CLIMATE ZONE 5 WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 1 THRU 4 AND A MINIMUM OF R-12 INSULATION IN CLIMATE ZONE 5.
- THIS BUILDING DOES NOT CONTAIN PLUMBING FACILITIES. PLUMBING FACILITIES ARE BEING PROVIDED ON SITE, SUBJECT TO THE LOCAL AUTHORITY HAVING JURISDICTION. MAXIMUM DISTANCE BETWEEN PROPOSED BUILDING AND THE PLUMBING FACILITIES IS 500 FEET, UNLESS PERMITTED BY IPC SECTION 403.3.3.

**LOUISIANA NOTES:**

- EXTERIOR SITE RELATED ITEMS SHALL BE ADDRESSED BY THE LOCAL ENGINEER AND/OR CONTRACTOR, AND ARE OUT OF THE LIMITATIONS OF THIS APPROVAL. SUCH ITEMS ARE INCLUDING, BUT NOT LIMITED TO: RAMPS, SITE PLAN, PARKING SPACES, LOCATION OF BUILDING WITH RESPECT TO PROPERTY LINES, EXTERIOR LIGHTING, ACCESS TO PUBLIC WAYS, STAIR HANDRAILS AND SITE RELATED UTILITIES.
- THIS APPROVAL IS FOR THE BUILDING DESIGN AND CONSTRUCTION ONLY.
- ALL ACCESSIBILITY RELATED ITEMS LISTED ARE BASED ON THE 28 CFR PART 36, OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN.
- ALL DOORS MUST PROVIDE A MINIMUM 32 INCH CLEAR WIDTH.
- MANUEVERING CLEARANCES AT DOORS SHALL COMPLY WITH FIG. 404.2.4.1.
- THRESHOLDS SHALL COMPLY WITH ACCESSIBILITY NOTE #7.
- CHANGES IN FLOOR ELEVATION SHALL COMPLY WITH ACCESSIBILITY NOTE #7.
- SEE NOTE #1 REGARDING RAMPS AND STAIRS.
- PERMANENT SIGNAGE SHALL COMPLY WITH ADA 703.1.
- SIGNAGE, WHERE PROVIDED FOR PERMANENT ROOMS AND SPACES SHALL PROVIDE:
  - BRILLE AND RAISED LETTERING AS PER 703.3
  - LETTER / SYMBOL TO BACKGROUND COLOR CONTRAST PER 703.5.1
  - A 60 INCH HEIGHT FROM FLOOR TO CENTERLINE OF SIGN
- OTHER PERMANENT SIGNS WHICH PROVIDE DIRECTION TO OR INFORMATION ABOUT FUNCTIONAL SPACES OF THE BUILDING SHALL PROVIDE:
  - LETTER CHARACTER WIDTH TO HEIGHT PROPORTION PER 703.5.4
  - CHARACTER HEIGHT PROPORTION BASED ON HEIGHT OF SIGN FROM FINISH FLOOR PER 703.5.5
  - LETTER / SYMBOL TO BACKGROUND COLOR CONTRAST PER 703.5.1
- LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL DEVICE OR SPECIAL KNOWLEDGE TO OPEN.
- DOOR SHALL BE CAPABLE OF BEING OPENED WITH ONLY ONE RELEASING OPERATION. KNOBS W/ INDEPENDANT SLIDE BOLTS ARE NOT ACCEPTABLE.
- INTERIOR WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD OF 0-200 AND A SMOKE DEVELOPED RATING OF 0 - 450.
- FIRE EXTINGUISHERS, INSTALLED ON SITE BY OTHERS, SHALL COMPLY WITH NFPA 10.

**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.**

- THE INTERCONNECTION BETWEEN BUILDING MODULES AT THE FLOOR AND ROOF SHALL BE SPECIFIED ON THE CROSS SECTION DRAWING ON THE PLAN SET.
- BUILDING TIE DOWN AND ANCHORAGE REQUIREMENTS ARE AS INDICATED ON FOUNDATION PLAN.
- ELECTRICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM2 AND IM6 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM4 AND IM7 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM2 AND IM5 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- FIRE BLOCKING SHALL BE PROVIDED PER SECTION 716.2 AND 1406.2.4 OF THE N.C. BUILDING CODE (AS APPLICABLE).
- AIR INFILTRATION AT MODULE MATE LINES SHALL BE LIMITED BY INSTALLING SILL TAPE ALONG THE MATE LINES DURING SET UP AND/OR BY INSTALLING CONTINUOUS SHEATHING ACROSS THE MATE LINE JOINTS AFTER SET UP.

**TEXAS NOTES:**

- INSIGNIA, THIRD PARTY LABEL AND DATA PLATE SHALL BE LOCATED ON THE INSIDE FACE OF THE ELECTRICAL PANEL DOOR UNLESS OTHERWISE NOTED ON FLOOR PLAN.
- THESE PLANS ARE FOR THE PURPOSE OF FACILITATING THE FACTORY BUILT MODULAR PORTION OF THIS PROJECT. THE DESIGNER OF RECORD FOR THE OVERALL PROJECT IS RESPONSIBLE FOR SUBMISSION OF THESE PLANS ALONG WITH ALL OTHER APPLICABLE SITE INFORMATION TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATION FOR REVIEW AND APPROVAL IN ACCORDANCE WITH THE TEXAS ARCHITECTURAL BARRIERS ACT.
- THE DESIGN OF THIS BUILDING HAS NOT BEEN EVALUATED FOR COMPLIANCE WITH THE TDI WIND STORM INSPECTION PROGRAM REQUIREMENTS.
- IF THE CONSTRUCTION COST OF THIS BUILDING EXCEEDS \$100,000 THE BUILDING SHALL NOT BE USED FOR PUBLIC USE (OWNED BY A STATE AGENCY, A POLITICAL SUBDIVISION OF THE STATE OR ANY OTHER PUBLIC ENTITY IN TEXAS) UNLESS SEPARATE PLANS ARE SEALED BY A TEXAS LICENSED ARCHITECT IN ACCORDANCE WITH TBAE STATUTES AND RULES.
- THE BUILDING DESIGN HAS BEEN APPROVED FOR USE ONLY IN THOSE AREAS WITHIN THE SCOPE OF THE STRUCTURAL LOAD LIMITATIONS AND CLIMATE DESIGN CRITERIA INDICATED BELOW.
- SEE THE BUILDING SITE INSTALLATION REQUIREMENT NOTES FOR WORK REQUIRING ON-SITE INSPECTIONS.
- VENTILATION OF THE RAFTER OR ATTIC SPACE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING OFFICIAL.
- THIS BUILDING COMPLIES WITH TX CLIMATE ZONE 4B.

NOTE: ENGINEER SEAL APPLIES ONLY TO FACTORY MANUFACTURED PORTIONS OF THE BUILDING. SEAL DOES NOT APPLY TO SITE INSTALLED ELEMENTS OR PORTIONS BUILT ON SITE SUCH AS, BUT NOT LIMITED TO; FOUNDATION, CONNECTIONS TO FOUNDATION, EXTERIOR STEPS OR OTHER SITE WORKS. SITE WORK MUST BE DESIGNED BY OTHERS FOR THE SITE CONDITIONS, UNDER THE LOCAL JURISDICTION.

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA, LICENSE NO. P26277, EXPIRATION DATE: 12-31-2023.

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 50946, EXPIRATION DATE: 05-18-2023.

**LOUISIANA CERTIFICATION:**

THESE PLANS ARE IN COMPLIANCE WITH THE CODES LISTED IN THE CODE SUMMARY BLOCK AND WERE PREPARED UNDER MY SUPERVISION. I AM NOT PROVIDING CONSTRUCTION.

**LIMITATIONS OF APPROVAL**

- THE APPROVAL OF THE PLAN UNDER THE INDUSTRIALIZED BUILDING COMMISSION PROGRAM IS PART OF THE MANUFACTURERS BUILDING SYSTEM APPROVAL.
- A PLAN FOR EACH SPECIFIC LOCATION MAY NEED TO BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION, AS MAY BE REQUIRED FOR PERMITTING PURPOSES. THE PERMIT SET MAY NEED TO INCLUDE A FOUNDATION PLAN FOR THE SPECIFIC BUILDING SITE, SIGNED AND SEALED BY A N.J. LICENSED ENGINEER OR ARCHITECT, IN ACCORDANCE WITH THE STATE AND LOCAL REQUIRMENTS.

**STATEMENT OF SPECIAL INSPECTIONS (IBC SECTION 1704.3)**

THE FOLLOWING MATERIALS, SYSTEMS COMPONENTS OR WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.

- SOILS - PERIODIC
- CONCRETE FOOTINGS - EXEMPT PER 1705.3 EXCEPTION #1
- MASONRY PIERS - PERIODIC
- BUILDING ANCHORAGE SYSTEMS - PERIODIC
- ON SITE STRUCTURAL INTERCONNECTIONS BETWEEN BUILDING MODULES - PERIODIC
- SPECIAL INSPECTIONS OF THE FACTORY BUILT MODULAR UNITS IS NOT REQUIRED DURING PRODUCTION IN THE FACTORY PER IBC SECTION 1704.2.5.1 THE MODULAR BUILDING MANUFACTURER IS AN APPROVED FABRICATOR OF PRE-MANUFACTURED BUILDINGS UNDER THE MARYLAND INDUSTRIALIZED BUILDING PROGRAM AND IS THEREFORE APPROVED TO MANUFACTURE WITHOUT SPECIAL INSPECTIONS.

**TEXAS - EXT. DOOR SPECIFICATIONS**

- SOLID.
- METAL WITH FOAM CORE
- Uo - 0.193.
- SWINGING.
- MAX ALLOWABLE AIR LEAKAGE RATE 0.3 CFM (PER SQUARE FOOT OF DOOR AREA).

**TEXAS - WINDOW SPECIFICATIONS**

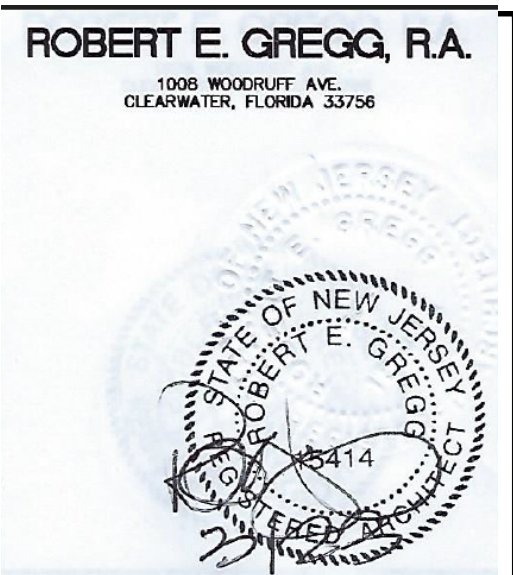
- VINYL FRAME
- OPERABLE
- DOUBLE PANE TINTED GLASS
- Uo - 0.45
- MAX ALLOWABLE AIR LEAKAGE RATE 0.3 CFM (PER SQUARE FOOT OF WINDOW AREA).
- SHGC - 0.25

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL  
This document is approved pursuant to the Industrialized Housing and Buildings Act.  
DRA No. 21 IBC ✓ IRC  
Date: 03 01 2023  
DRA Signature: *[Signature]*



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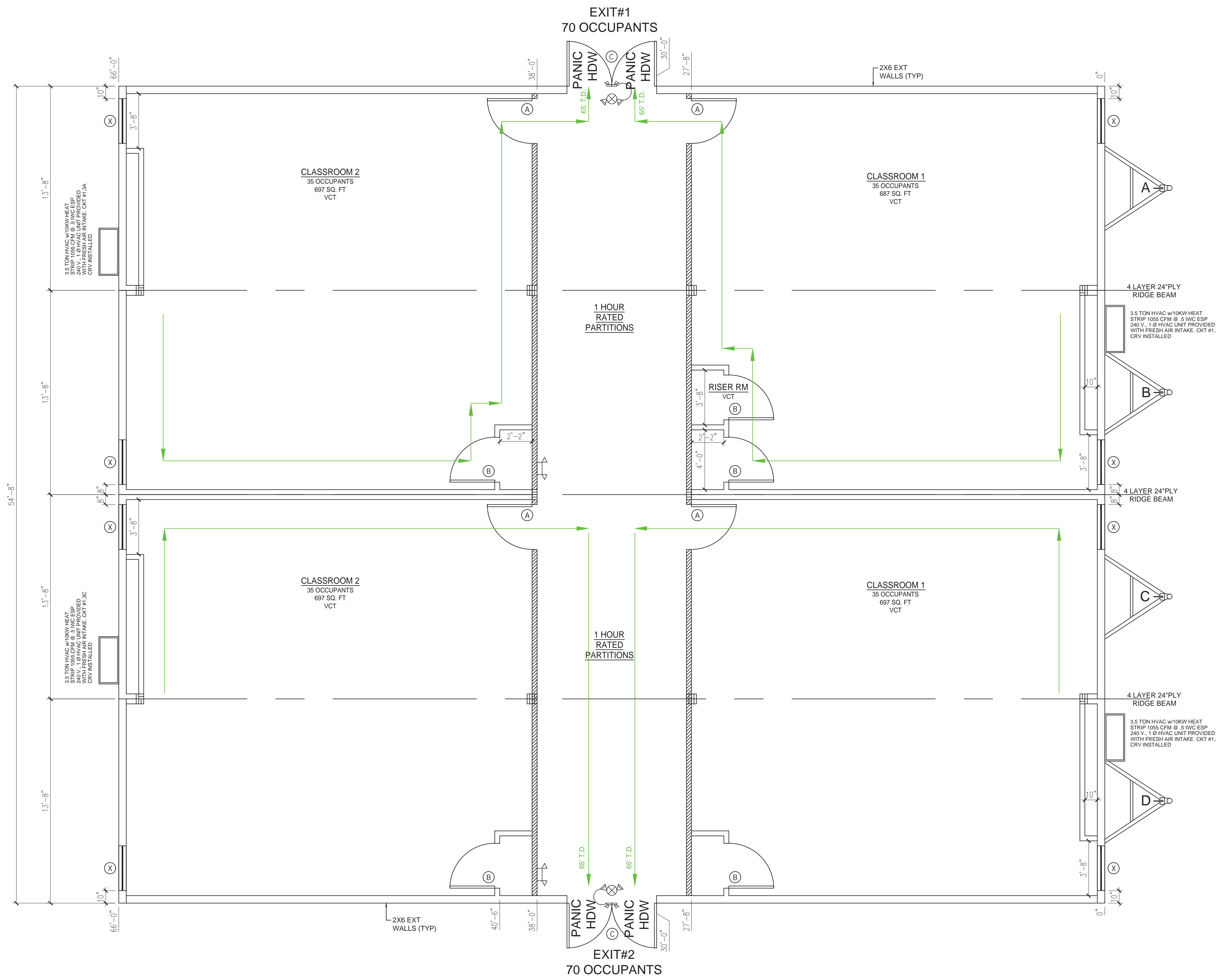
STATE OF ALABAMA  
REGISTERED ARCHITECT  
AL 5478  
03/01/2023



STATE OF TEXAS ENGINEERING FIRM # F-23404

**DIAMOND BUILDERS, INC.**  
440 THOMPSON DRIVE  
DOUGLAS, GA 31535  
PHONE# 912-384-7080

DATE: 1-31-23	ENGINEERS: JAMES ALLEN CHAPMAN, P.E.
SCALE: N-T-S	KENNETH EARL DUNMON, P.E.
CODES: AL, AR, GA, LA, MD, MO, MS, NC, NJ, OK, PA, SC, TX, WV, VA	
DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION	
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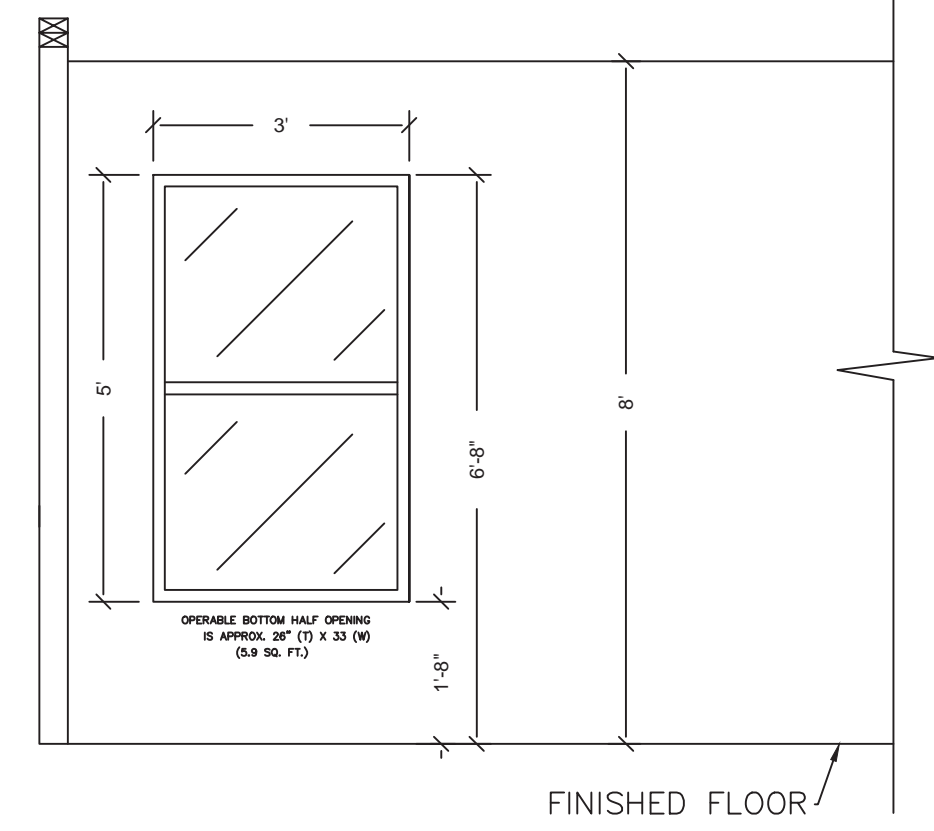
**LIFE SAFETY PLAN SUMMARY**

- |   |                               |
|---|-------------------------------|
| 1. USE / OCCUPANCY:   | EDUCATION                     |
| 2. CONSTRUCTION TYPE :  | VB                            |
| 3. SPRINKLER SYSTEM:  | NFPA-13                       |
| 4. BUILDING AREA:   | 3,608 SQ FT                   |
| 5. BUILDING HEIGHT:   | < 15 FEET                     |
| 6. NUMBER OF STORIES:   | 1                             |
| 7. NUMBER OF MODULES :  | 4                             |
| 9. OCCUPANT LOAD ( 140 ) BASED ON [ 20 ] SQ FT PER OCCUPANT.      |                               |
| 10. CORRIDOR RATING:  | 1 HOUR (RATING NOT REQUIRED). |
| 11. EXITS WITH EMERGENCY LIGHTS PROVIDED AT DOORS:                | 2                             |
| 12. MAXIMUM EXIT ACCESS TRAVEL DISTANCE FOUND:                    | 65 FEET                       |
| 13. MAXIMUM EXIT ACCESS TRAVEL DISTANCE ALLOWED:                  | 250 FEET                      |
| 14. NUMBER OF EXIT DOORS REQUIRED:                                | 2                             |
| 15. NUMBER OF EXITS PROVIDED :                                    | 2                             |
| 16. EACH EXIT DOOR (2 LOCATIONS) CAPACITY = 360 OCCUPANTS EACH.   |                               |
| 17. REQUIRED WIDTH OF EXITS - (140x0.2') = 28' / PROVIDED - 144". |                               |

**SYMBOL LEGEND**

- Ⓢ OCCUPANT SENSOR WALL MOUNT LIGHT SWITCH
- Ⓢ WALL MOUNT THREE-WAY LIGHT SWITCH
- Ⓢ J-BOX IN WALL (NON POWERED)
- Ⓢ CEILING MT POWERED J-BOX
- Ⓢ CEILING MT RECEPTACLE
- Ⓢ 120 V DUPLEX TAMPER RESISTANT RECEPTACLE
- Ⓢ 120 V QUADRUPEX TAMPER RESISTANT RECEPTACLE
- Ⓢ 4"x4" J-BOX
- Ⓢ RECESSED 2-33 LED LIGHT FIXTURE
- Ⓢ 24"x24" RETURN AIR CEILING REGISTER
- Ⓢ 24"x24" SUPPLY AIR CEILING REGISTER
- Ⓢ WALL MT DIGITAL 7-DAY PROGRAMMABLE THERMOSTAT
- Ⓢ FLUSH MOUNT 120 / 240 V 1 Ø ELECTRICAL PANEL
- Ⓢ EXTERIOR REMOTE HEAD EMERGENCY LIGHT
- Ⓢ CEILING MT COMBO LIGHTED EXIT SIGN / EMERGENCY LIGHT 90 MINUTE CAPACITY
- Ⓢ VANDAL RESISTANT WALL PACK
- Ⓢ J-BOX IN WALL FOR FIRE ALARM HORN / STROBE
- Ⓢ J-BOX IN WALL FOR FIRE ALARM PULL STATION
- Ⓢ J-BOX IN WALL FOR FIRE STROBE LIGHT
- Ⓢ 1 HOUR FIRE RATED WALL
- Ⓢ WALL MOUNTED EMERGENCY LIGHT 90 MIN. CAPACITY

DOOR SCHEDULE		WINDOW SCHEDULE	
A	3680 - S.C. IMPERIAL OAK DOOR W/ 4"x24" VB, 20 MIN. RATED W/ SELF CLOSING HINGES- LEVER CLOSER HDW	X	3660 - EGRESS RATED VERTICAL SLIDER DP 50 WHITE/VINYL INSULATED GLASS
B	3680 - S.C. IMPERIAL OAK - 20 MIN. RATED REDIFRAME, LEVER HDW		
C	7280 - STEEL/STEEL PREMIER DOOR W/ 10"x10" VB, PANIC HDW, CLOSER		



**PENETRATION OF FIRE RESISTANT WALLS AND CEILING:**

1. COMBUSTIBLE CABLES AND WIRES, COMBUSTIBLE PIPES, TUBES AND CONDUIT SHALL MEET TESTING REQUIREMENTS OF ASTM E119 AS PART OF THE FIRE RESISTANT ASSEMBLY OR SHALL HAVE THROUGH-PENETRATION FIRESTOP SYSTEMS LISTED AND TESTED AS PER ASTM E814 AND BE TESTED AT A POSITIVE PRESSURE DIFFERENTIAL BETWEEN THE EXPOSED AND UNEXPOSED SURFACES OF NOT LESS THAN 0.01 INCH OF WATER AND HAVE AN 'F' RATING OF AT LEAST 1 HOUR BUT NOT LESS THAN THE RATING OF THE ASSEMBLY.
2. CABLES AND WIRE WITHOUT COMBUSTIBLE INSULATIONS AND NON-COMBUSTIBLE PIPES, TUBES AND CONDUITS SHALL BE PROTECTED AS DESCRIBED ABOVE OR SHALL HAVE THE ANNULAR SPACE FILLED WITH A MATERIAL MEETING THE REQUIREMENT OF ASTM E119 TESTED UNDER A POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER FOR A TIME PERIOD EQUIVALENT TO THE RATING OF THE ASSEMBLY.
3. ELECTRICAL BOXES SHALL BE METAL OR LISTED FOR USE IN FIRE RESISTANT ASSEMBLIES AND SHALL NOT EXCEED 16 SQUARE INCHES. BOXES ON OPPOSITE SIDES OF FIRE RESISTANT WALLS SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
4. DUCTS PENETRATING FIRE RESISTANT CEILING SHALL HAVE AN ACCESSIBLE LISTED FIRE DAMPER LOCATED AT THE CEILING LINE.
5. ALL FIRE RATED DOORS SHALL HAVE LISTED DOOR, FRAME AND HARDWARE NO LESS THAN THE TIME RATING SPECIFIED ON THE FLOOR PLAN. IN ADDITION FIRE RATED DOORS SHALL BE EQUIPPED WITH SELF CLOSING DEVICES UNLESS OTHERWISE NOTED.
6. ALL DUCT PENETRATIONS OF 1 HOUR RATED CORRIDORS MUST BE EQUIPPED WITH COMBINATION SMOKE AND FIRE DAMPERS. EXCEPTION: SMOKE DAMPERS ARE NOT REQUIRED IN CORRIDOR PENETRATION WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
7. WOOD STUD WALLS: 1 HOUR PER UL# U305 OR GYPSUM ASSOCIATION WP3520 / WP3605 - 1 LAYER OF 5/8" TYPE-X GYPSUM EACH SIDE OF WALL.
8. FIRE PARTITIONS (HORIZONTAL AND VERTICAL), WHERE ACCESSIBLE, SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED W/ SIGNS OR STENCILING IN THE CONCEALED SPACE. LOCATE IDENTIFICATION WITHIN 15 FEET OF EACH END AND NO MORE THAN 30 FEET ON CENTER. LETTERS TO BE NOT LESS THAN 3 INCHES HIGH WITH A MINIMUM 3/8" WIDE STROKE IN A CONTRASTING COLOR. NOTE AS "FIRE BARRIER - PROTECT ALL OPENINGS."

**LIFE SAFETY PLAN**

1/4" = 1'-0"

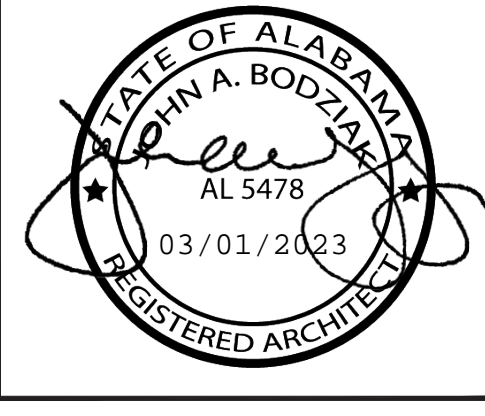
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**ROBERT E. GREGG, R.A.**  
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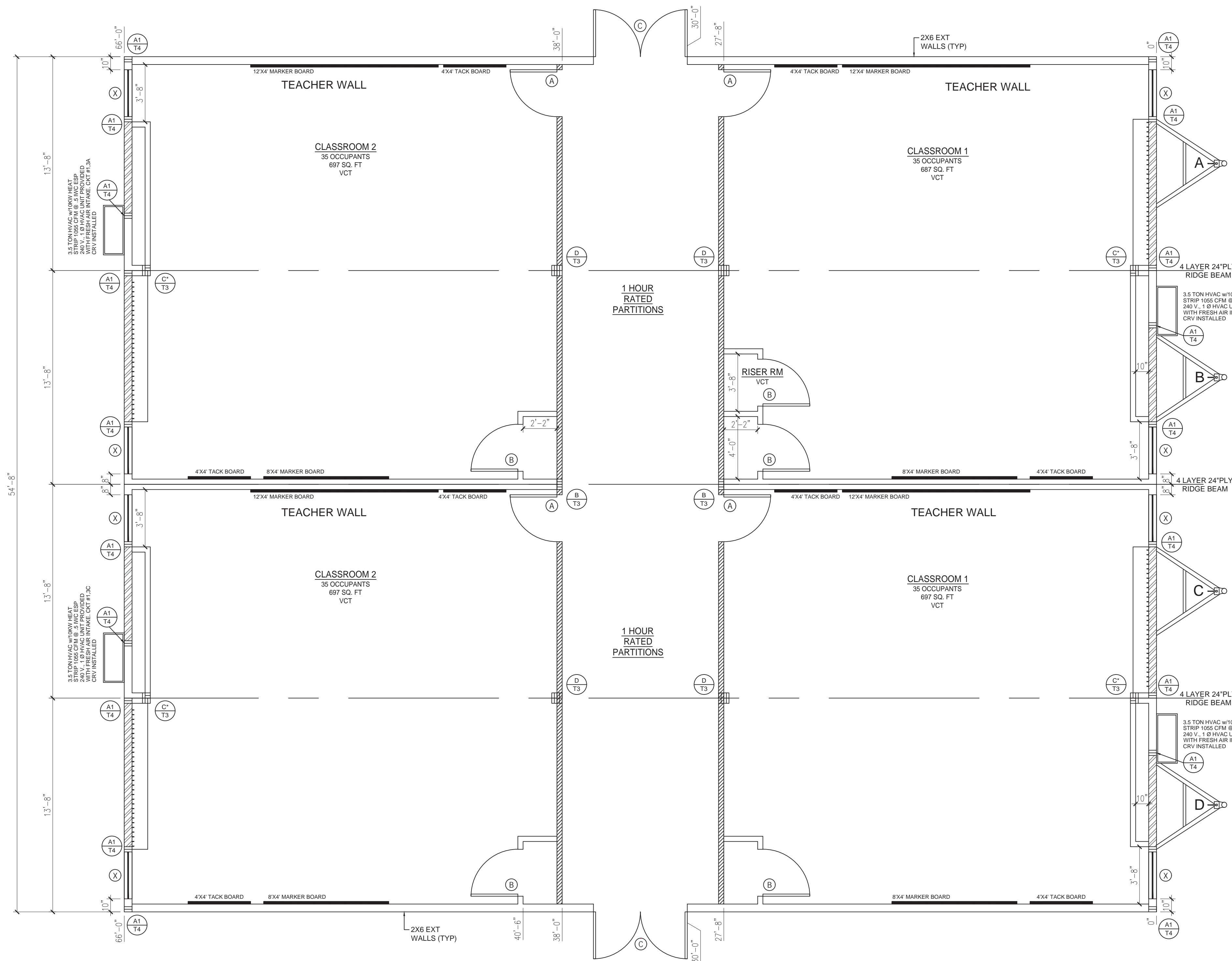


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CLEARWATER, FLORIDA 33762  
TEL: (727) 322-1866 FAX: (727) 855-5119



NOTE: BUILDING IS PROTECTED WITH NFPA-13 AUTOMATIC SPRINKLER SYSTEM.  
STATE OF TEXAS ENGINEERING FIRM # F-23404

<b>DIAMOND BUILDERS, INC.</b> 440 THOMPSON DRIVE DOUGLAS, GA 31535 PHONE# 912-384-7080	
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CODES: AL, AR, GA, LA, MD, MO, MS, NC, NJ, OK, PA, SC, TX, VA, WV	
DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION	
LIFE SAFETY PLAN	PAGE: 5.1 / 14



**FLOOR PLAN**  
1/4" = 1'-0"

DOOR SCHEDULE		WINDOW SCHEDULE	
(A)	3680 - S.C. IMPERIAL OAK DOOR W/ 4"x24" VB, 20 MIN. RATED W/ SELF CLOSING HINGES- LEVER CLOSER HDW	(X)	3660 - EGRESS RATED VERTICAL SLIDER DP 50 WHITE/VINYL INSULATED GLASS
(B)	3680 - S.C. IMPERIAL OAK - 20 MIN. RATED REDIFRAME, LEVER HDW		
(C)	7280 - STEEL/STEEL PREMIER DOOR W/ 10"x10" VB, PANIC HDW, CLOSER		

SYMBOL LEGEND	
Ⓢ	OCCUPANT SENSOR WALL MOUNT LIGHT SWITCH
Ⓢ	WALL MOUNT THREE-WAY LIGHT SWITCH
Ⓢ	J-BOX IN WALL (NON POWERED)
Ⓢ	CEILING MOUNTED POWERED J-BOX
Ⓢ	CEILING MOUNTED RECEPTACLE
Ⓢ	120 V DUPLEX TAMPER RESISTANT RECEPTACLE
Ⓢ	120 V QUADRUPLX TAMPER RESISTANT RECEPTACLE
Ⓢ	4"x4" J-BOX
Ⓢ	RECESSED 2-33 LED LIGHT FIXTURE
Ⓢ	24"x24" RETURN AIR CEILING REGISTER
Ⓢ	24"x24" SUPPLY AIR CEILING REGISTER
Ⓢ	WALL MOUNT DIGITAL 7-DAY PROGRAMMABLE THERMOSTAT
Ⓢ	FLUSH MOUNT 120 / 240 V 1 Ø ELECTRICAL PANEL
Ⓢ	EXTERIOR REMOTE HEAD EMERGENCY LIGHT
Ⓢ	CEILING MOUNT COMBO LIGHTED EXIT SIGN / EMERGENCY LIGHT 90 MINUTE CAPACITY
Ⓢ	VANDAL RESISTANT WALL PACK
Ⓢ	J-BOX IN WALL FOR FIRE ALARM HORN / STROBE
Ⓢ	J-BOX IN WALL FOR FIRE ALARM PULL STATION
Ⓢ	J-BOX IN WALL FOR FIRE STROBE LIGHT
Ⓢ	1 HOUR FIRE RATED WALL
Ⓢ	WALL MOUNTED EMERGENCY LIGHT 90 MIN. CAPACITY

**COLUMN STUDS AND STRAPPING**

INDICATES COLUMN DESCRIPTION LOCATIONS (EACH HALF)

INDICATES THE REQUIREMENT FOR A BEARING STIFFENER

INDICATES TYPE OF THE DOWN STRAP. (SEE DESIGN PACKAGE FOR ADDITIONAL SPECIFICATIONS) LOCATIONS (QTY IS 1 UNLESS NOTED OTHERWISE)

**COLUMN DESCRIPTIONS:**

A - 2-2"x6" SYP #2 EACH HALF A1 - 2-2"x6" SYP #2

B - 2-2"x4" SYP #2 EACH HALF

C - 3-2"x4" SYP #2 EACH HALF

D - 4-2"x4" SYP #2 EACH HALF

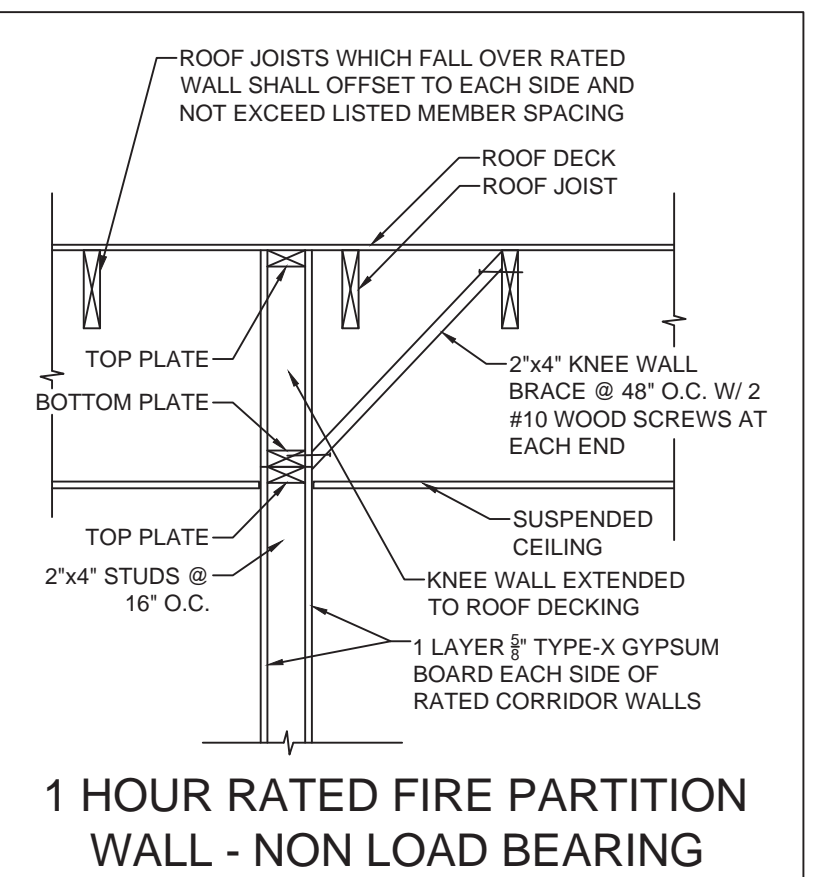
E - 5-2"x4" SYP #2 EACH HALF

**TIE DOWN STRAPPING:**

T1 = SIMPSON L2422 STEEL STRAP W/ (5) 10d NAILS AT EACH END

T2 = SIMPSON C54 CDL STRAP W/ (26) 0.148" x 2 1/2" NAILS INTO RIDGE BEAM. EXTEND BELOW FLOOR FOR SITE CONNECTION TO FOUNDATION. HOLD DOWN IS DESIGNED BY OTHERS.

T3 = SIMPSON C54 CDL STRAP W/ (26) 0.148" x 2 1/2" NAILS INTO STUDS. EXTEND BELOW FLOOR FOR SITE CONNECTION TO FOUNDATION. HOLD DOWN IS DESIGNED BY OTHERS.



**1 HOUR RATED FIRE PARTITION WALL - NON LOAD BEARING**

**PENETRATION OF FIRE RESISTANT WALLS AND CEILING:**

- COMBUSTIBLE CABLES AND WIRES, COMBUSTIBLE PIPES, TUBES AND CONDUIT SHALL MEET TESTING REQUIREMENTS OF ASTM E119 AS PART OF THE FIRE RESISTANT ASSEMBLY OR SHALL HAVE THROUGH-PENETRATION FIRESTOP SYSTEMS LISTED AND TESTED AS PER ASTM E814 AND BE TESTED AT A POSITIVE PRESSURE DIFFERENTIAL BETWEEN THE EXPOSED AND UNEXPOSED SURFACES OF NOT LESS THAN 0.01 INCH OF WATER AND HAVE AN 'F' RATING OF AT LEAST 1 HOUR BUT NOT LESS THAN THE RATING OF THE ASSEMBLY.
- CABLES AND WIRE WITHOUT COMBUSTIBLE INSULATIONS AND NON-COMBUSTIBLE PIPES, TUBES AND CONDUITS SHALL BE PROTECTED AS DESCRIBED ABOVE OR SHALL HAVE THE ANNULAR SPACE FILLED WITH A MATERIAL MEETING THE REQUIREMENT OF ASTM E119 TESTED UNDER A POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER FOR A TIME PERIOD EQUIVALENT TO THE RATING OF THE ASSEMBLY.
- ELECTRICAL BOXES SHALL BE METAL OR LISTED FOR USE IN FIRE RESISTANT ASSEMBLIES AND SHALL NOT EXCEED 16 SQUARE INCHES. BOXES ON OPPOSITE SIDES OF FIRE RESISTANT WALLS SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
- DUCTS PENETRATING FIRE RESISTANT CEILINGS SHALL HAVE AN ACCESSIBLE LISTED FIRE DAMPER LOCATED AT THE CEILING LINE.
- ALL FIRE RATED DOORS SHALL HAVE LISTED DOOR, FRAME AND HARDWARE NO LESS THAN THE TIME RATING SPECIFIED ON THE FLOOR PLAN. IN ADDITION FIRE RATED DOORS SHALL BE EQUIPPED WITH SELF CLOSING DEVICES UNLESS OTHERWISE NOTED.
- ALL DUCT PENETRATIONS OF 1 HOUR RATED CORRIDORS MUST BE EQUIPPED WITH COMBINATION SMOKE AND FIRE DAMPERS. EXCEPTION: SMOKE DAMPERS ARE NOT REQUIRED IN CORRIDOR PENETRATION WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
- WOOD STUD WALLS: 1 HOUR PER UL# U305 OR GYPSUM ASSOCIATION WP350 / WP365 - 1 LAYER OF 5/8" TYPE-X GYPSUM EACH SIDE OF WALL.
- FIRE PARTITIONS (HORIZONTAL AND VERTICAL), WHERE ACCESSIBLE, SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED W/ SIGNS OR STENCILING IN THE CONCEALED SPACE. LOCATE IDENTIFICATION WITHIN 15 FEET OF EACH END AND NO MORE THAN 30 FEET ON CENTER. LETTERS TO BE NOT LESS THAN 3 INCHES HIGH WITH A MINIMUM 3/8" WIDE STROKE IN A CONTRASTING COLOR. NOTE AS 'FIRE BARRIER - PROTECT ALL OPENINGS.'

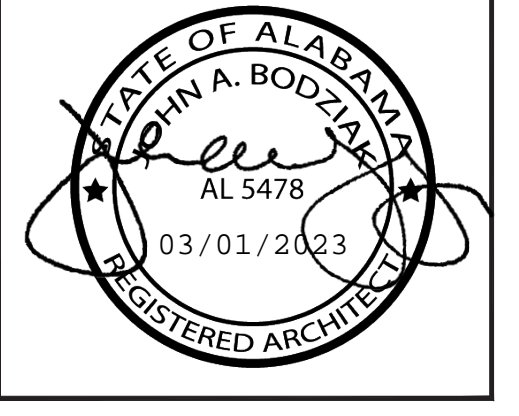
TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL  
This document is approved pursuant to the Industrialized Housing and Buildings Act.  
DRA No. 21 IBC IRC  
Date: 03/01/2023  
DRA Signature: [Signature]

**EMC APPROVED**  
03/01/2023

**ROBERT E. GREGG, R.A.**  
1006 WOODRUFF AVE.  
CLEARWATER, FLORIDA 33766

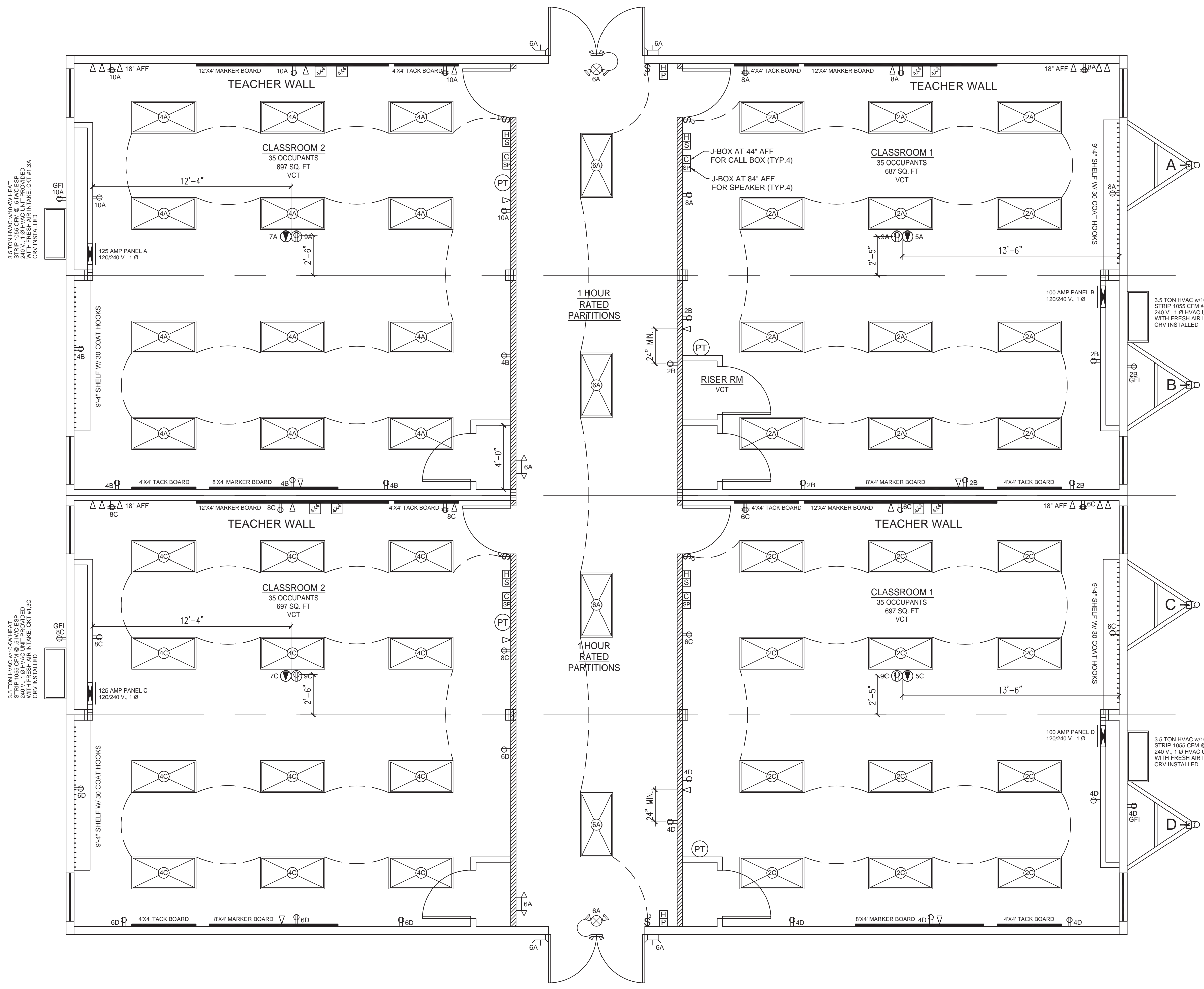


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NOTE: BUILDING IS PROTECTED WITH NFPA-13 AUTOMATIC SPRINKLER SYSTEM.  
STATE OF TEXAS ENGINEERING FIRM # F-23404

DIAMOND BUILDERS, INC.	
440 THOMPSON DRIVE DOUGLAS, GA 31535 PHONE# 912-384-7080	
DATE: 1-31-23	ENGINEERS: JAMES ALLEN CHAPMAN, P.E. KENNETH EARL DUNNON, P.E.
SCALE: 1/4" = 1'-0"	
CODES: AL, AR, GA, LA, MD, MO, MS, NC, NJ, OK, PA, SC, TX, VA, WV	
DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION	
FLOOR PLAN	PAGE: 5.2 / 14



**ELECTRICAL PLAN**  
 1/4" = 1'-0"

ELECTRICAL SIZING		120/240V	SGL PHASE	INSTALL	125
PANEL A				AMP PANEL	
ID	QTY	UNITS	KW	SUB-TOTAL	
HVAC 3.5 TON	1	EACH	13.7	13.70	
WATER HEATER	0	EACH	6.5	0.00	
LIGHTS	2072	SQ FT	0.0035	9.07	
RECEPTACLES	19	EACH	0.18	3.42	
EXHAUST FANS	0	EACH	0.4	0.00	
DEDICATED CKTS.	0	EACH	1.5	0.00	
				TOTAL =	26.19
				TOTAL =	109.1
					AMPS

ELECTRICAL PANEL SCHEDULE A			
CIRCUIT ID	DESCRIPTION	BREAKER	WIRE
1,3 A	HVAC - 3.5 TON	60A (2P) HACR	6-6-10 MC
2, 4, 6 A	LIGHTS	20A	12
5, 7 - 10 A	RECEPTS / P-J-BOXES	20A	12

ELECTRICAL SIZING		120/240V	SGL PHASE	INSTALL	100
PANEL B				AMP PANEL	
ID	QTY	UNITS	KW	SUB-TOTAL	
HVAC 3.5 TON	1	EACH	13.7	13.70	
WATER HEATER	0	EACH	6.5	0.00	
LIGHTS	0	SQ FT	0.0035	0.00	
RECEPTACLES	12	EACH	0.18	2.16	
EXHAUST FANS	0	EACH	0.4	0.00	
DEDICATED CKTS.	0	EACH	1.5	0.00	
				TOTAL =	15.86
				TOTAL =	66.1
					AMPS

ELECTRICAL PANEL SCHEDULE B			
CIRCUIT ID	DESCRIPTION	BREAKER	WIRE
1,3 B	HVAC - 3.5 TON	60A (2P) HACR	6-6-10 MC
2, 4 B	RECEPTS	20A	12

ELECTRICAL SIZING		120/240V	SGL PHASE	INSTALL	125
PANEL C				AMP PANEL	
ID	QTY	UNITS	KW	SUB-TOTAL	
HVAC 3.5 TON	1	EACH	13.7	13.70	
WATER HEATER	0	EACH	6.5	0.00	
LIGHTS	1536	SQ FT	0.0035	6.72	
RECEPTACLES	19	EACH	0.18	3.42	
EXHAUST FANS	0	EACH	0.4	0.00	
DEDICATED CKTS.	0	EACH	1.5	0.00	
				TOTAL =	23.84
				TOTAL =	99.3
					AMPS

ELECTRICAL PANEL SCHEDULE C			
CIRCUIT ID	DESCRIPTION	BREAKER	WIRE
1,3 C	HVAC - 3.5 TON	60A (2P) HACR	6-6-10 MC
2, 4 C	LIGHTS	20A	12
5 - 9 C	RECEPTS / P-J-BOXES	20A	12

ELECTRICAL SIZING		120/240V	SGL PHASE	INSTALL	100
PANEL D				AMP PANEL	
ID	QTY	UNITS	KW	SUB-TOTAL	
HVAC 3.5 TON	1	EACH	13.7	13.70	
WATER HEATER	0	EACH	6.5	0.00	
LIGHTS	0	SQ FT	0.0035	0.00	
RECEPTACLES	12	EACH	0.18	2.16	
EXHAUST FANS	0	EACH	0.4	0.00	
DEDICATED CKTS.	0	EACH	1.5	0.00	
				TOTAL =	15.86
				TOTAL =	66.1
					AMPS

ELECTRICAL PANEL SCHEDULE D			
CIRCUIT ID	DESCRIPTION	BREAKER	WIRE
1,3 D	HVAC - 3.5 TON	60A (2P) HACR	6-6-10 MC
4 - 7 D	RECEPTS	20A	12

M.C. CABLE IN CEILING  
 NM REMAINDER

SYMBOL LEGEND	
	OCCUPANCY SENSOR WALL MOUNT LIGHT SWITCH
	WALL MOUNT THREE-WAY LIGHT SWITCH
	J-BOX IN WALL (NON POWERED)
	CEILING MT POWERED J-BOX
	CEILING MT RECEPTACLE
	120 V DUPLEX TAMPER RESISTANT RECEPTACLE
	120 V QUADRUPLEX TAMPER RESISTANT RECEPTACLE
	4"x4" J-BOX
	RECESSED 2-33 LED LIGHT FIXTURE
	24"x24" RETURN AIR CEILING REGISTER
	24"x24" SUPPLY AIR CEILING REGISTER
	WALL MT DIGITAL 7-DAY PROGRAMMABLE THERMOSTAT
	FLUSH MOUNT 120/240 V 1 Ø ELECTRICAL PANEL
	EXTERIOR REMOTE HEAD EMERGENCY LIGHT
	CEILING MT COMBO LIGHTED EXIT SIGN / EMERGENCY LIGHT 90 MINUTE CAPACITY
	VANDAL RESISTANT WALL PACK
	J-BOX IN WALL FOR FIRE ALARM HORN / STROBE
	J-BOX IN WALL FOR FIRE ALARM PULL STATION
	J-BOX IN WALL FOR FIRE STROBE LIGHT
	1 HOUR FIRE RATED WALL
	WALL MOUNTED EMERGENCY LIGHT 90 MIN. CAPACITY

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL  
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 DRA No. 21 IBC ✓ IRC  
 Date: 03 01 2023  
 DRA Signature: *[Signature]*

**EMC** APPROVED  
 03 01 2023

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**KENNETH EARL DUNMON**  
 ENGINEER  
 PE0416008  
 2-28-23






















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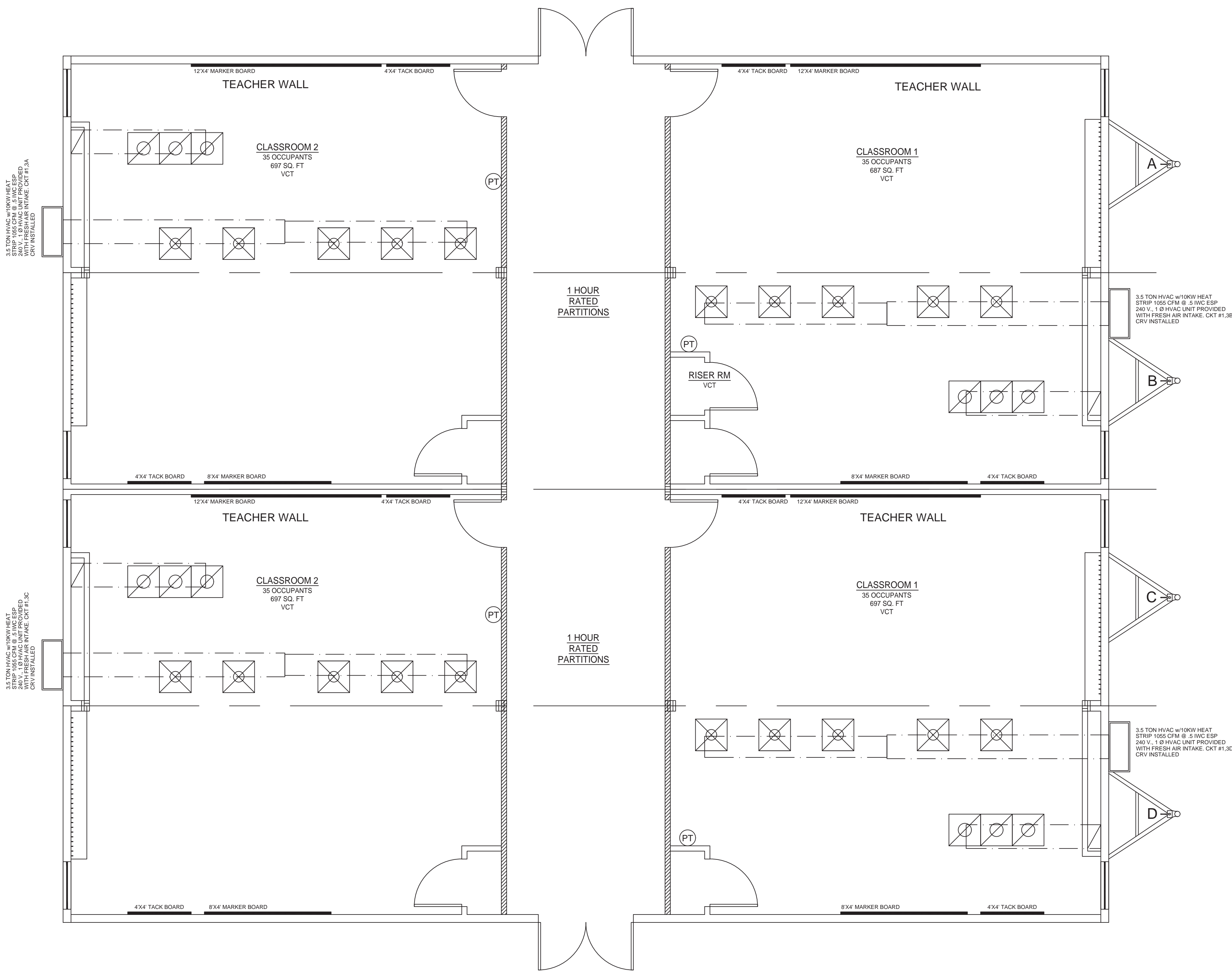
STATE OF TEXAS ENGINEERING FIRM # F-23404

**DIAMOND BUILDERS, INC.**  
 440 THOMPSON DRIVE  
 DOUGLAS, GA 31535  
 PHONE# 912-384-7080

DATE: 1-31-23 ENGINEERS: JAMES ALLEN CHAPMAN, P.E. KENNETH EARL DUNMON, P.E.  
 SCALE: 1/4" = 1'-0"  
 CODES: AL, AR, GA, LA, MD, MO, MS, NC, NJ, OK, PA, SC, TX, VA, WV, VA  
 DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION  
 ELECTRICAL PLAN PAGE: 6 / 14

**SYMBOL LEGEND**

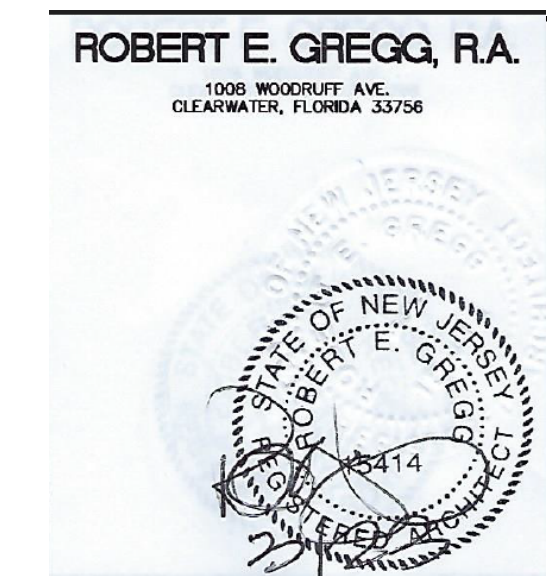
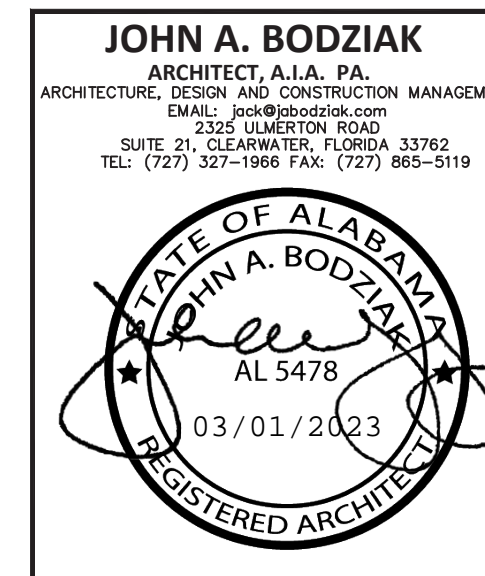
-  OCCUPANCY SENSOR WALL MOUNT LIGHT SWITCH
-  WALL MOUNT THREE-WAY LIGHT SWITCH
-  J-BOX IN WALL (NON POWERED)
-  CEILING MT POWERED J-BOX
-  CEILING MT RECEPTACLE
-  120 V DUPLEX TAMPER RESISTANT RECEPTACLE
-  120 V QUADRUPLEX TAMPER RESISTANT RECEPTACLE
-  4'x4' J-BOX
-  RECESSED 2-33 LED LIGHT FIXTURE
-  24'x24' RETURN AIR CEILING REGISTER
-  24'x24' SUPPLY AIR CEILING REGISTER
-  WALL MT DIGITAL 7-DAY PROGRAMMABLE THERMOSTAT
-  FLUSH MOUNT 120/240 V 1 Ø ELECTRICAL PANEL
-  EXTERIOR REMOTE HEAD EMERGENCY LIGHT
-  CEILING MT COMBO LIGHTED EXIT SIGN / EMERGENCY LIGHT 90 MINUTE CAPACITY
-  VANDAL RESISTANT WALL PACK
-  J-BOX IN WALL FOR FIRE ALARM HORN / STROBE
-  J-BOX IN WALL FOR FIRE ALARM PULL STATION
-  J-BOX IN WALL FOR FIRE STROBE LIGHT
-  1 HOUR FIRE RATED WALL
-  WALL MOUNTED EMERGENCY LIGHT 90 MIN. CAPACITY



**MECHANICAL PLAN**

1/4" = 1'-0"

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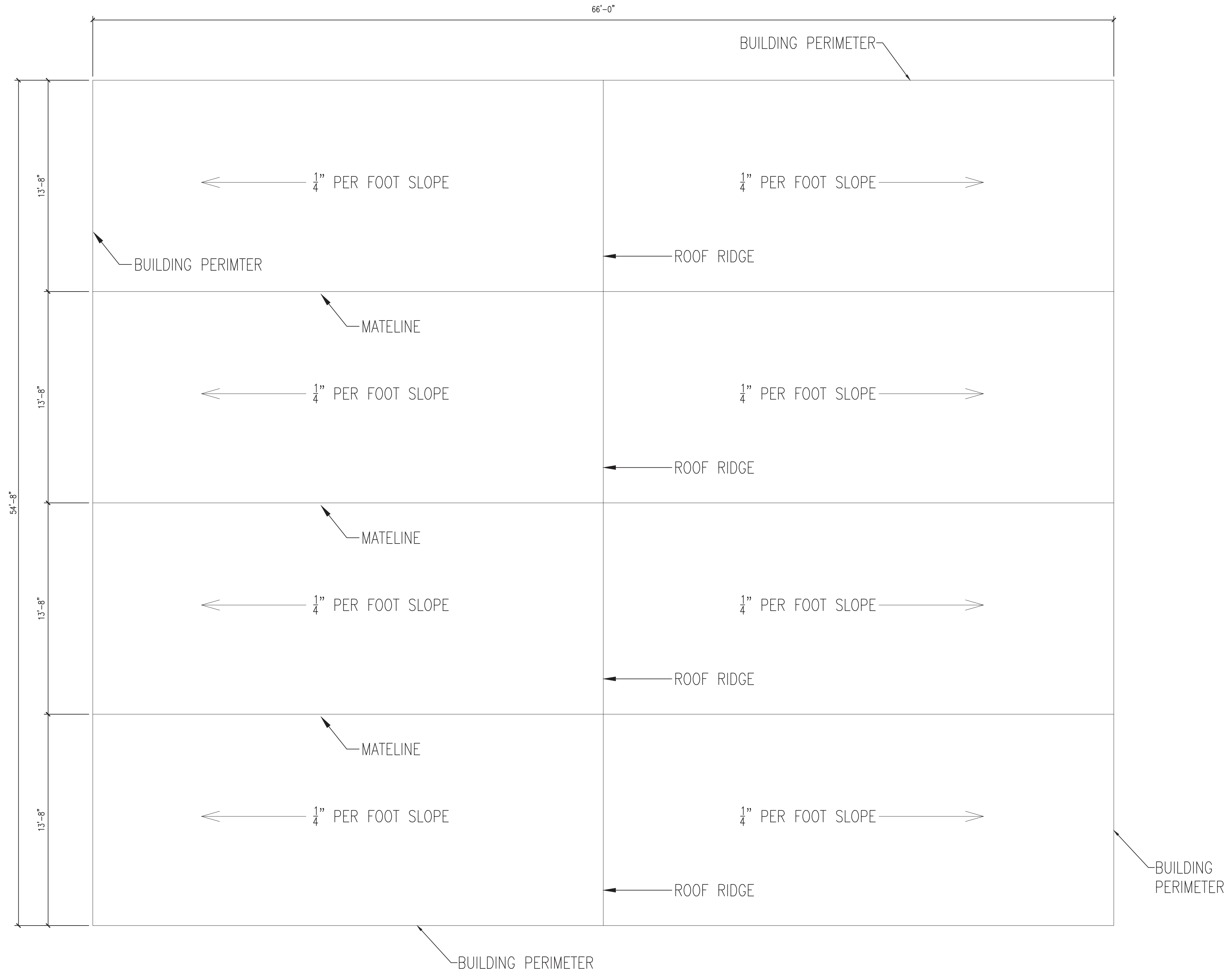


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 DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION  
 MECHANICAL PLAN PAGE: 7 / 14





**ROOF PLAN**

1/4" = 1'-0"

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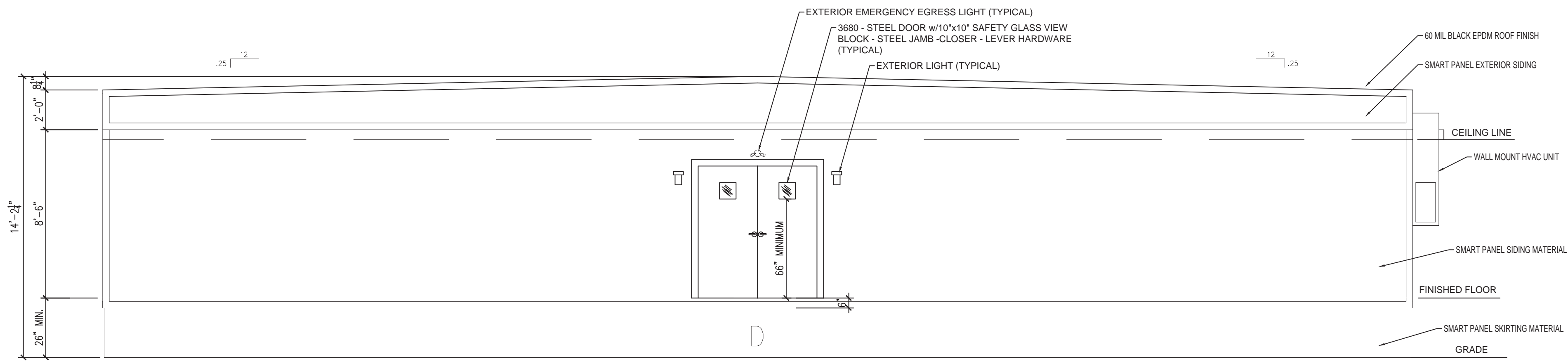
**JOHN A. BODZIAK**  
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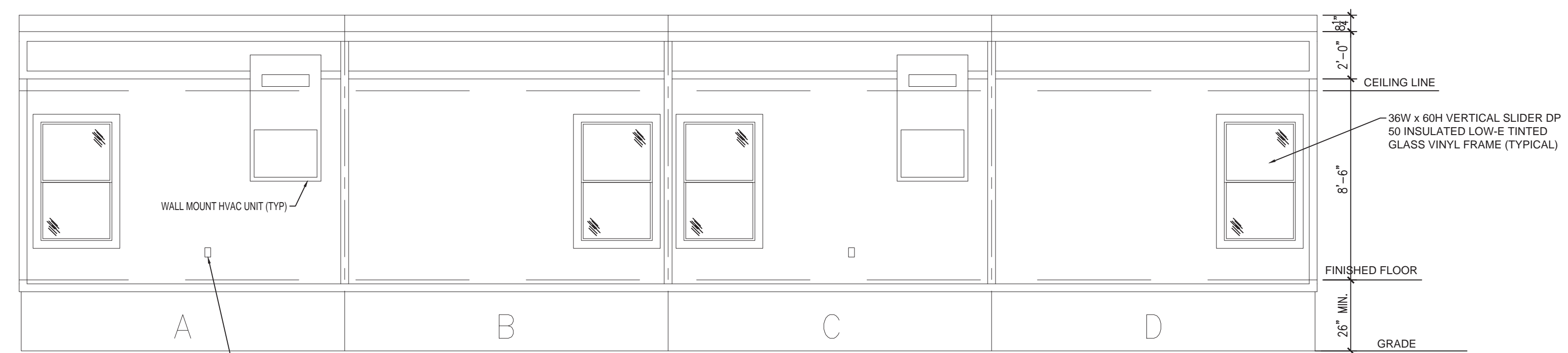
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ROOF PLAN	PAGE: 9 / 14



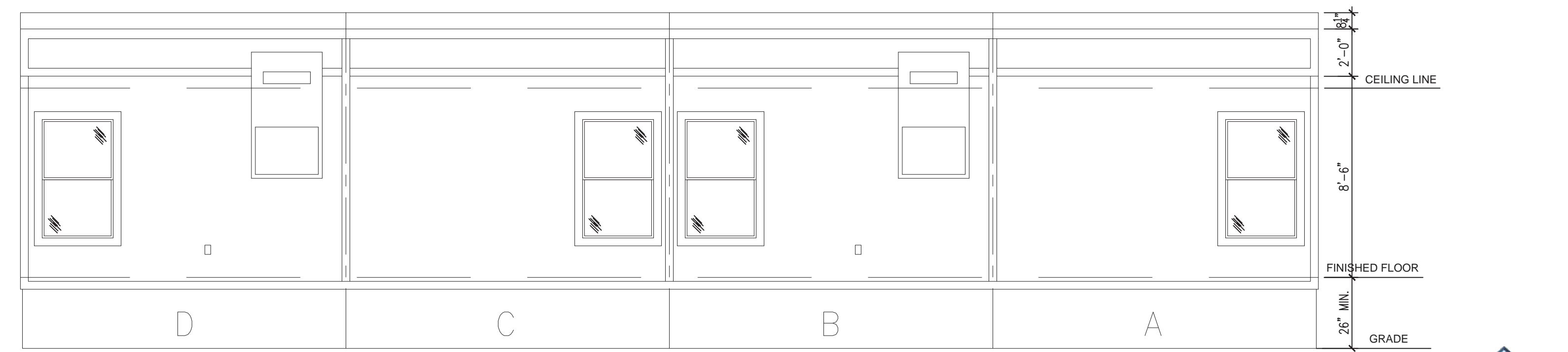
FRONT ELEVATION



REAR ELEVATION



LEFT ELEVATION

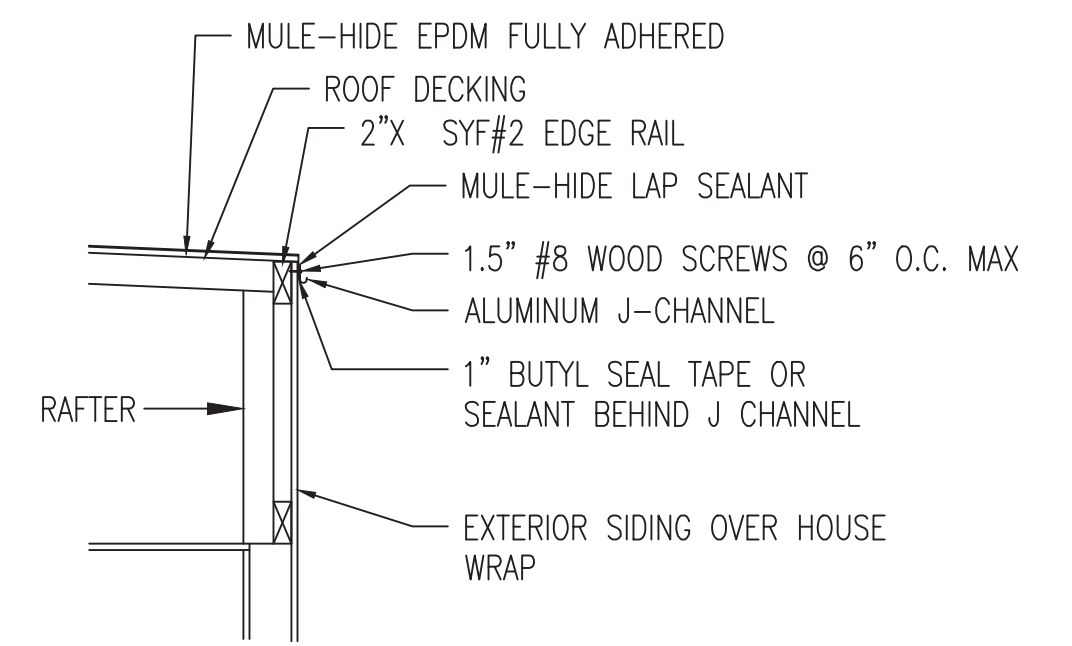


RIGHT ELEVATION

ELEVATIONS

1/4" = 1'-0"

- ELEVATION NOTES:**
- FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQ FT NET VENT AREA PER 1 / 150 TH OF THE FLOOR AREA, AND AN 18"x24" MINIMUM CRAWL SPACE ACCESS, INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION. 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.



ROOF EDGE DETAIL  
(TYPICAL SIDEWALLS AND END WALLS) PER MULEHIDE LETTER REPORT #100963104MID-001R1 3/4" = 1'-0"

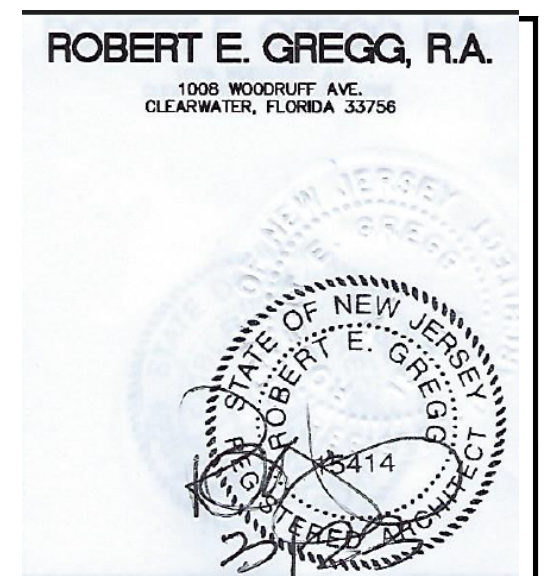


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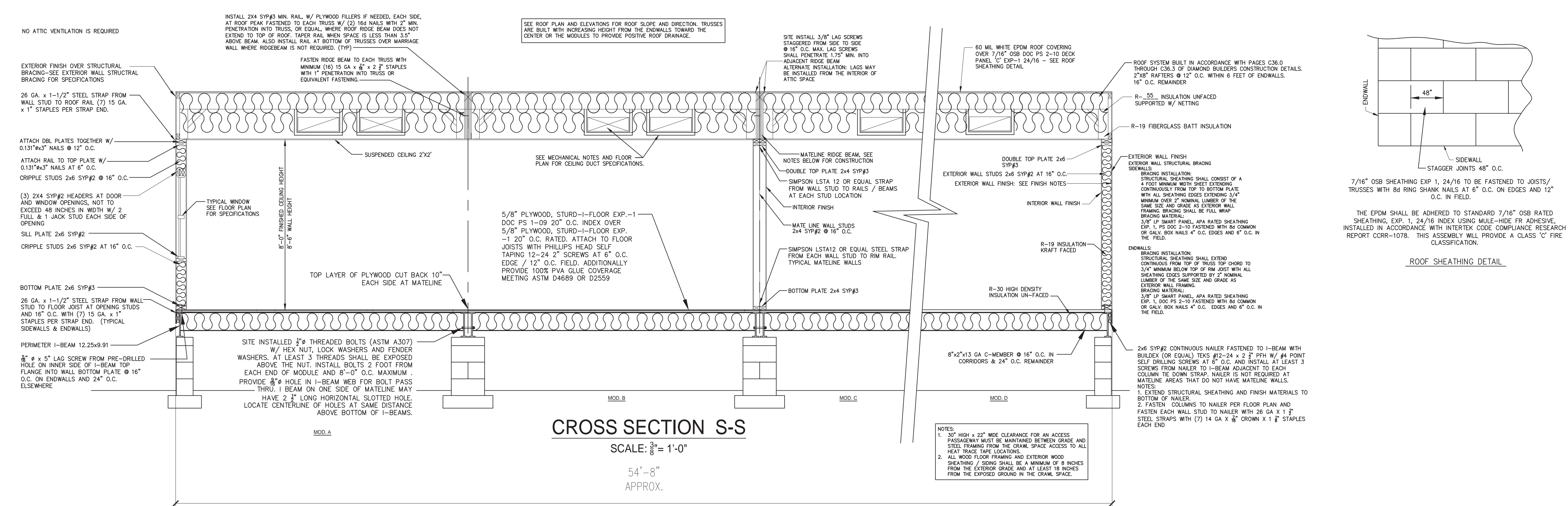
STATE OF ALABAMA REGISTERED ARCHITECT  
AL 5478  
03/01/2023



STATE OF TEXAS ENGINEERING FIRM # F-23404

**DIAMOND BUILDERS, INC.**  
440 THOMPSON DRIVE  
DOUGLAS, GA 31535  
PHONE# 912-384-7080

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DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION	
ELEVATIONS	PAGE: 10 / 14



**CROSS SECTION S-S**

SCALE: 3/8" = 1'-0"

54'-8" APPROX.

- GENERAL CROSS SECTION NOTES:**
- UNLESS OTHERWISE SPECIFIED, ALL STEEL 0.230" THICK AND GREATER SHALL COMPLY WITH ASTM A36, YIELD STRENGTH 36 KSI. MATERIAL LESS THAN 0.230" THICK SHALL COMPLY WITH ASTM A1011, YIELD STRENGTH 36 KSI. STEEL USED IN THE FRAME IS STRUCTURAL STEEL.
  - STEEL TIE DOWN AND CONNECTION STRAPS SHALL COMPLY WITH ASTM A653 / A653M.
  - ALL LAG SCREWS SHALL COMPLY WITH ANSI/ASME B18.2.1. Fyb = 60 KSI MINIMUM
  - SEE FOUNDATION (WHEN PROVIDED) PLAN FOR PIER AND THE TIE DOWN ANCHORAGE LOCATIONS, ORIENTATIONS AND SPECIFICATIONS.
  - WHERE 1" STAPLES ARE SPECIFIED THIS SHALL MEAN 1" PENETRATION INTO THE HOLDING MEMBER
  - FOR TIE DOWN STRAP FASTENERS PROVIDE 3/4" MINIMUM SPACE BETWEEN ALL STAPLES AND 1" MINIMUM SPACE BETWEEN ALL NAILS UNLESS OTHERWISE PERMITTED BY STRAP MANUFACTURER'S LISTING. ALL FASTENERS SHALL BE INSTALLED IN CENTER 1/3 RD OF THE STRAP WIDTH. DO NOT INSTALL SIDE BY SIDE, IN NO CASE SHALL SPLITTING OF WOOD BE PERMITTED.
  - WHERE KRAFTBACK OR OTHER VAPOR RETARDERS ARE SPECIFIED THEY SHALL BE INSTALLED ON THE INTERIOR SIDE OF THE ASSEMBLY UNLESS OTHERWISE SPECIFIED.
  - ALL VAPOR RETARDERS ON THE EXPOSED INSULATION SHALL BE FOIL FACE TYPE VAPOR RETARDERS WITH A FLAMESPREAD RATING <25 AND SMOKE DEVELOPMENT RATING < 450.
  - SEE GENERAL NOTES ON COVER SHEET FOR INTERIOR FINISH MATERIAL RATING CLASSIFICATIONS.

- INTERIOR FINISH MATERIALS:**
- CEILING:** CLASS 'A' 2X2 SUSPENDED CEILING INSTALLED PER MANUFACTURER'S SPECIFICATIONS  
**WALL:** 5/8" TYPE X VINYL CLAD GYPSUM BOARD  
**NOTE:** GYPSUM BOARD TO COMPLY WITH ASTM C1396. GYPSUM FASTERS TO COMPLY WITH ASTM C514.  
**INTERIOR FINISHES SHALL BE CLASS 'A' FOR EXITS AND OTHER THAN EXITS SHALL BE CLASS 'A'**
- FLOOR:** VCT PER PLAN  
**FLOOR FINISHES SHALL BE NO LESS THAN CLASS II LISTED PRODUCTS.**
- EXTERIOR FINISH MATERIALS:**
- ROOF:** MULEHIDE 60 MIL (WHITE) EPDM FULLY ADHERED MEETING ASTM D 4637 AND ANSI/RMA IPR-1, IN ACCORDANCE WITH CCRR-1078 OVER 7/16" OSB .
- WALL:** 3/8" LP SMART PANEL SIDING APA RATED PANEL SIDING PER ESR-1301 FASTENED WITH 0.113" Ø x 2 1/2" GALV NAILS @ 4" O.C. EDGES & 6" O.C. FIELD. PANELS MUST BE INSTALLED WITH THE LONG DIMENSION ORIENTED IN THE VERTICAL DIRECTION. FASTENERS MUST NOT BE INSTALLED IN THE SIDING GROOVES IN THE FIELD OF THE PANEL OR AT THE EDGE OF THE PANEL WHEN THE SIDING GROOVES OCCUR AT THE CUT EDGE.
- NOTE:** ALL OPENINGS IN EXTERIOR WALLS ARE FLASHED WITH TYVEK COMMERCIAL WRAP, INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

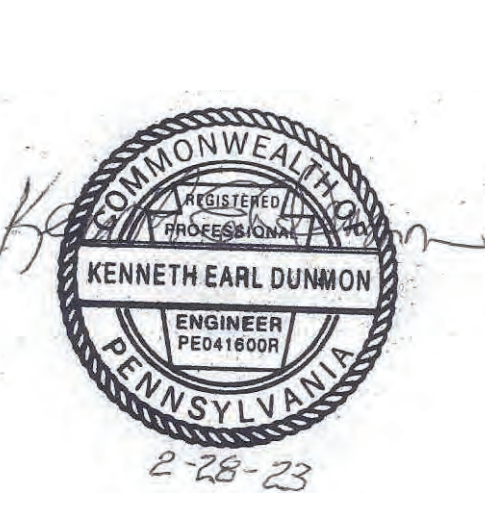
- RIDGE BEAM CONSTRUCTION**
- RIDGE BEAM CONSTRUCTION:**  
 LAYERS: 3/4" x 24" PLYWOOD, RATED SHEATHING, EXP-1, 48/24, INDEX, (STRUCT.1 - 5 PLY / 5 LAYER)  
 EACH SIDE OF EACH MARRIAGE LINE CONTINUOUS FULL LENGTH OF MODULES.
- NOTES:**
- PLYWOOD FACE GRAIN MUST BE PARALLEL TO THE RIDGE BEAM SPAN.
  - 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 WITH PS I-09.
  - PLYWOOD LAMINATIONS IN EACH HALF OF THE UNITS MUST BE GLUE-NAILED TO ADJACENT LAYERS IN ACCORDANCE WITH FDS SUPPLEMENT #5, WITH AN ADHESIVE COMPLYING WITH ASTM D2559. SEE APPROVED PACKAGE FOR MECHANICAL FASTENER SPECIFICATIONS AND SPACING REQUIREMENTS.
  - PLYWOOD MUST NOT BE TREATED WITH A FIRE RETARDANT PROCESS.
  - MOISTURE CONTENT MUST BE 15% OR LESS AT TIME OF BEAM CONSTRUCTION.
  - RIDGE BEAMS MUST EXTEND CONTINUOUS OVER ENTIRE LENGTH OF ALL SUPPORT COLUMNS & HEADERS.
  - INSTALL 2x4 SYP#3 MINIMUM RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS & HEADER WHEN SPECIFIED ON FLOOR PLAN. STIFFENER HEIGHT SHALL NOT BE LESS THAN RIDGE BEAM HEIGHT LESS 4 INCHES. FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM WITH 100% GLUE COVERAGE AND 6-16 GA. x 2-1/2" STAPLES.
  - PLYWOOD VALUES: E=1800 ksi. Fb = 3300 psi.

- GYPSUM WALL FINISH INSTALLATION NOTES:**
- 5/8" VINYL CLAD GYPSUM BOARD INSTALLATION TO THE WALL TO COMPLY WITH THE FOLLOWING:  
 A. FRAMING TO BE WOOD AT 16" O.C.  
 B. GYPSUM BOARD NAILS 0.0915" DIAMETER, 1 7/8" LONG, 19/64" HEAD AT 8" O.C. WITHOUT ADHESIVE.  
 C. GYPSUM BOARD NAILS 0.0915" DIAMETER, 1 7/8" LONG, 19/64" HEAD AT 16" O.C. WITH ADHESIVE.

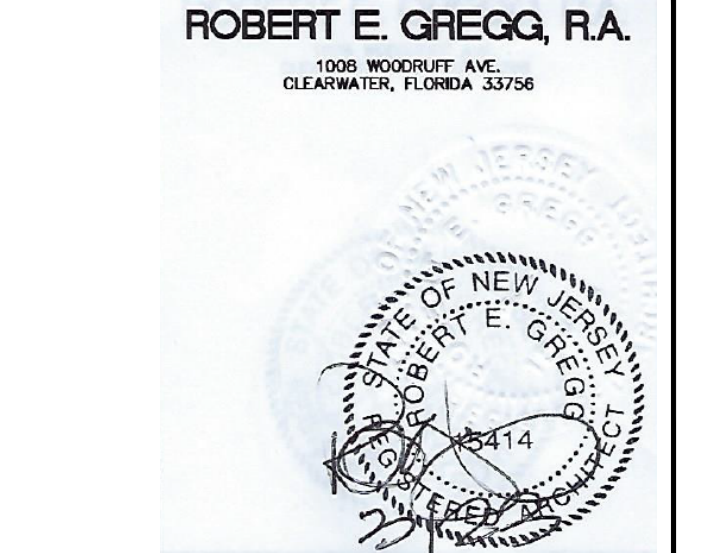
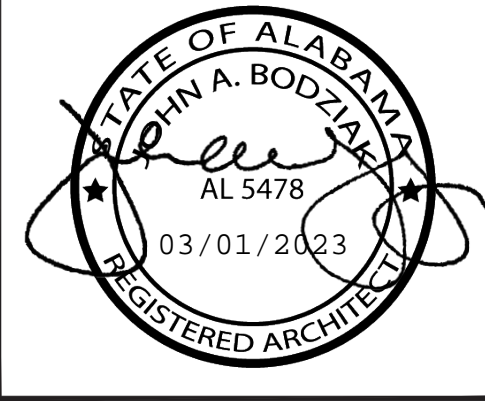
- STATE OF MARYLAND PACKAGE REFERENCES:**
- FRAME I-BEAM DESIGN - C10.1
  - FLOOR SYSTEM DESIGN - C9
  - MATELINE COLUMNS - C27.5, C27.7
  - MATELINE PLYWOOD BEAMS - C29.6
  - OVERTURNING AND SLIDING - D24.6 -24.7
  - LONGITUDINAL TIE DOWN - D25.0



TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL  
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 Date: 03 01 2023  
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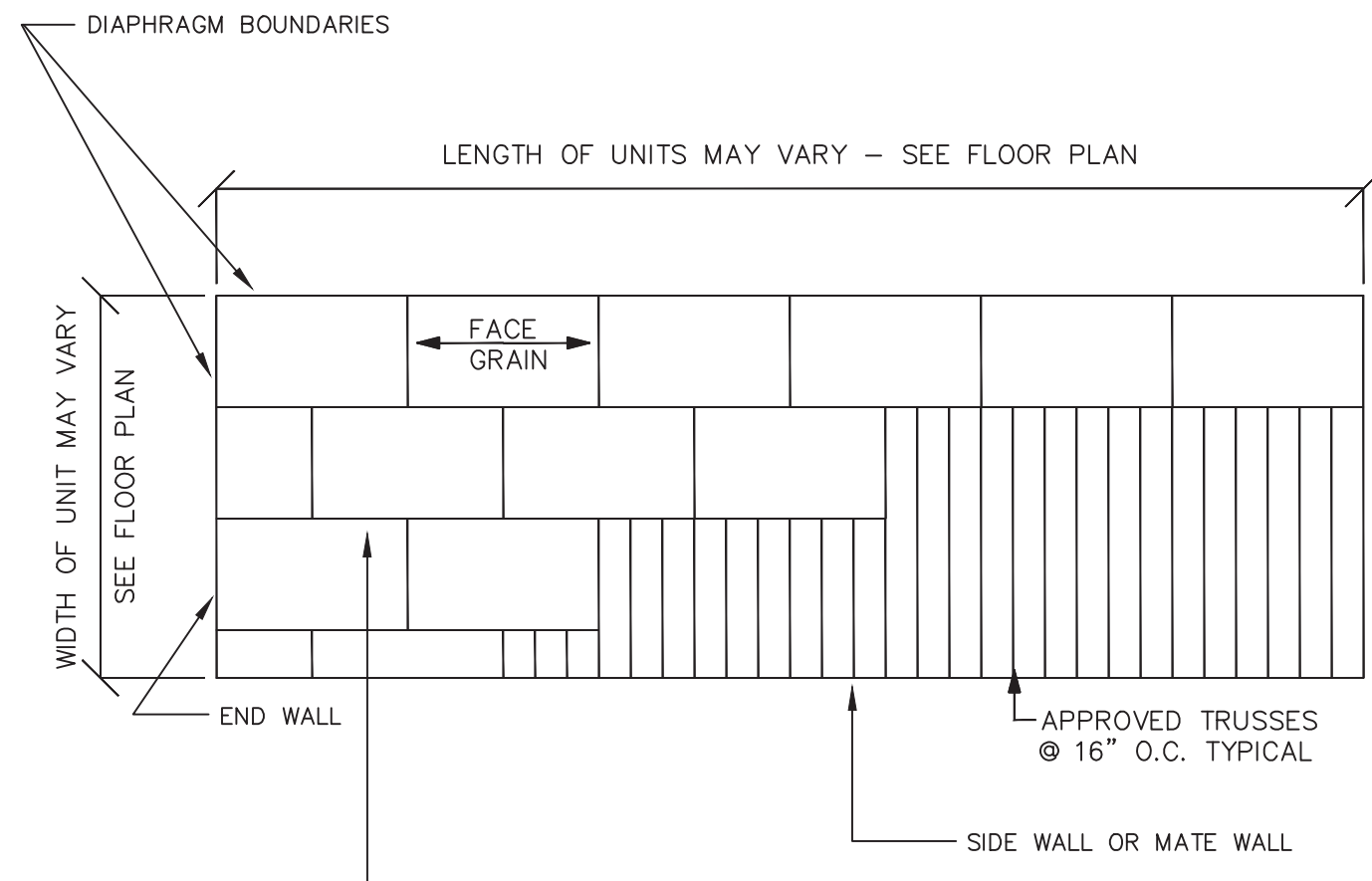
STATE OF TEXAS ENGINEERING FIRM # F-23404

**DIAMOND BUILDERS, INC.**  
 440 THOMPSON DRIVE  
 DOUGLAS, GA 31535  
 PHONE# 912-384-7080

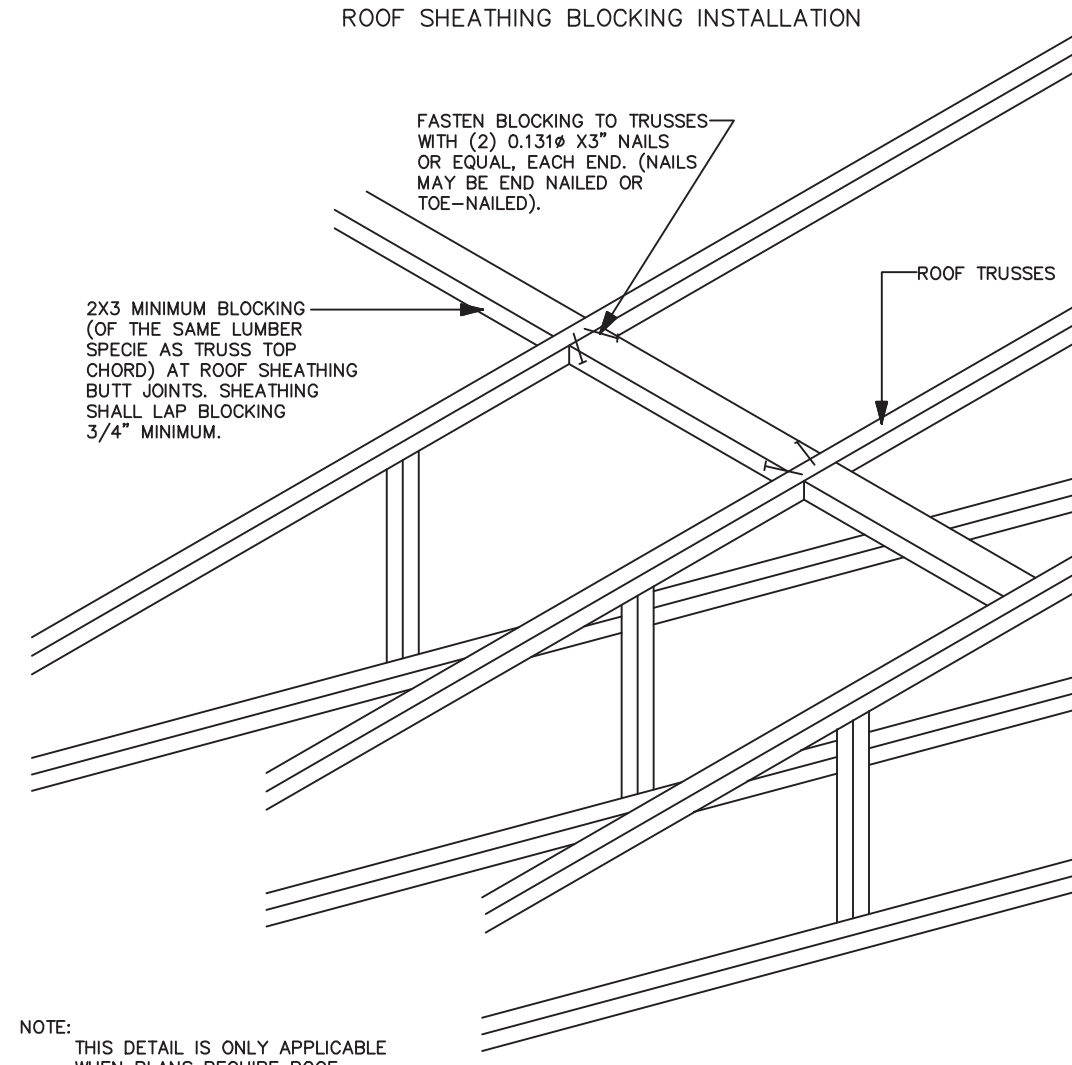
DATE: 1-31-23	ENGINEERS: JAMES ALLEN CHAPMAN, P.E. KENNETH EARL DUNNON, P.E.
SCALE: AS NOTED	
CODES: AL, AR, GA, LA, MD, MO, MS, NC, NJ, OK, PA, SC, TX, WV, VA	
DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION	
CROSS SECTION	PAGE: 11 / 14



TYPICAL ROOF FRAMING & ROOF SHEATHING INSTALLATION

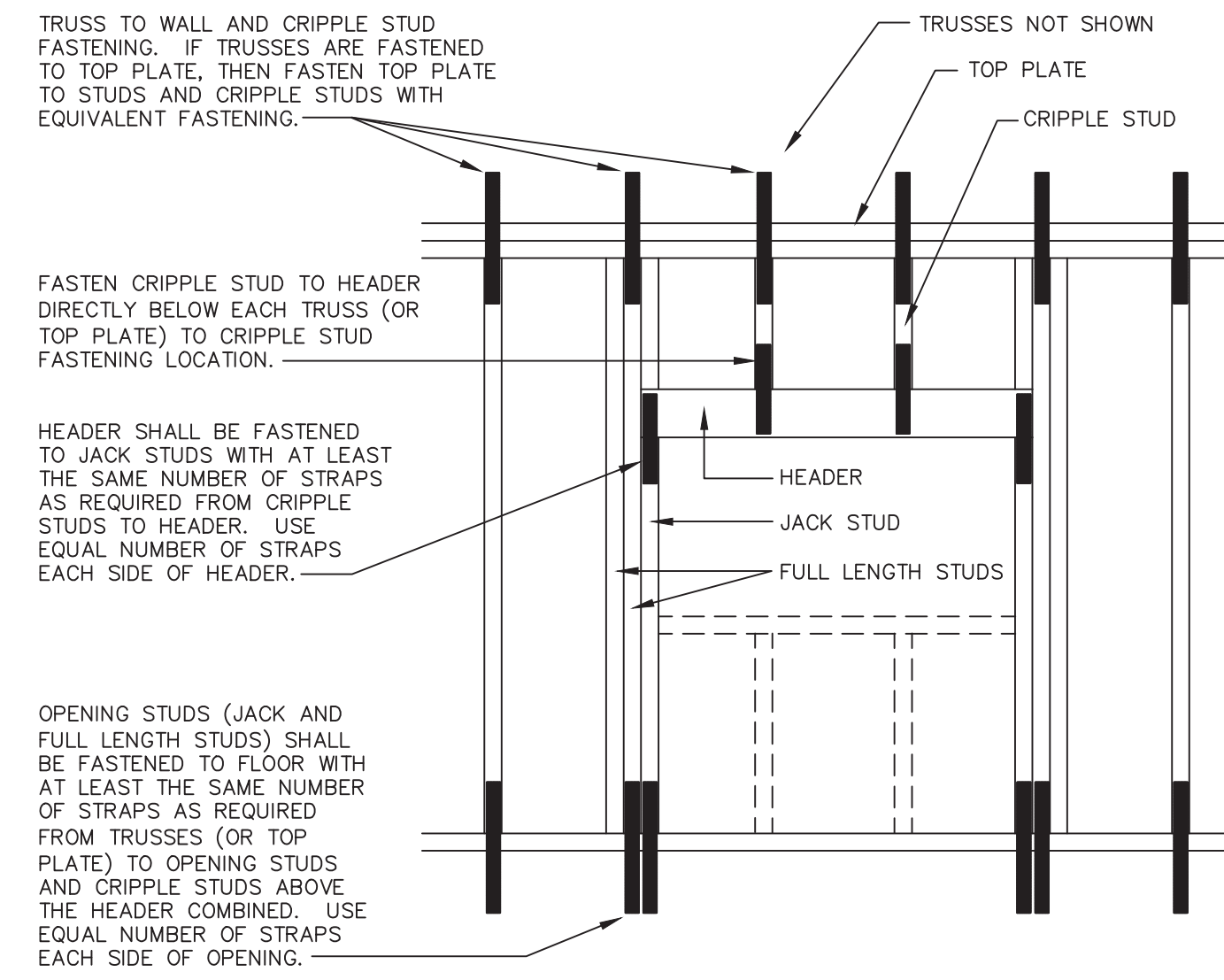


NOTES:  
1. SEE APPROVED PLANS FOR ALTERNATE SPECIFICATIONS AND/OR ADDITIONAL REQUIREMENTS.



NOTE:  
THIS DETAIL IS ONLY APPLICABLE WHEN PLANS REQUIRE ROOF SHEATHING EDGE TO BE BLOCKED.

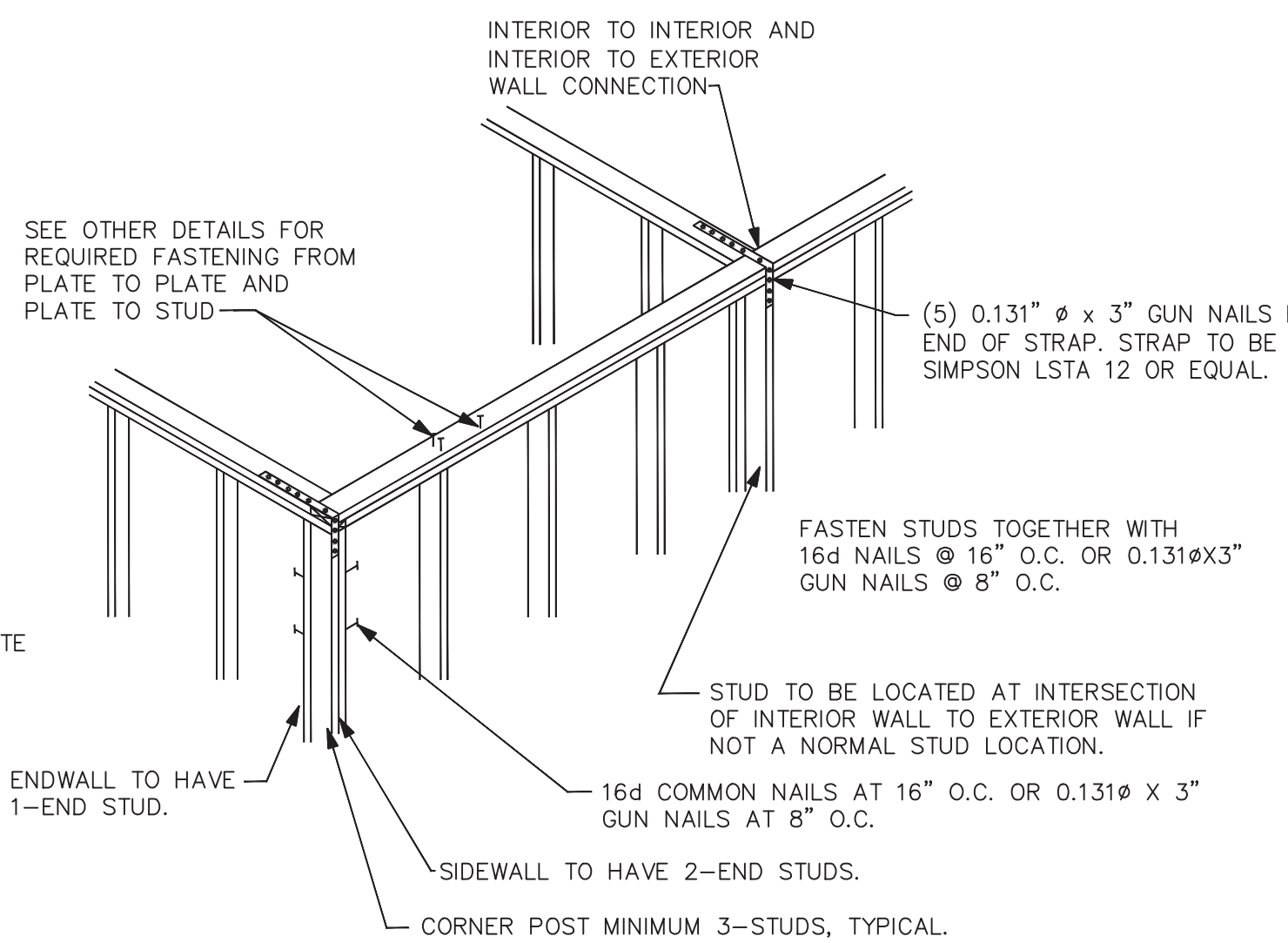
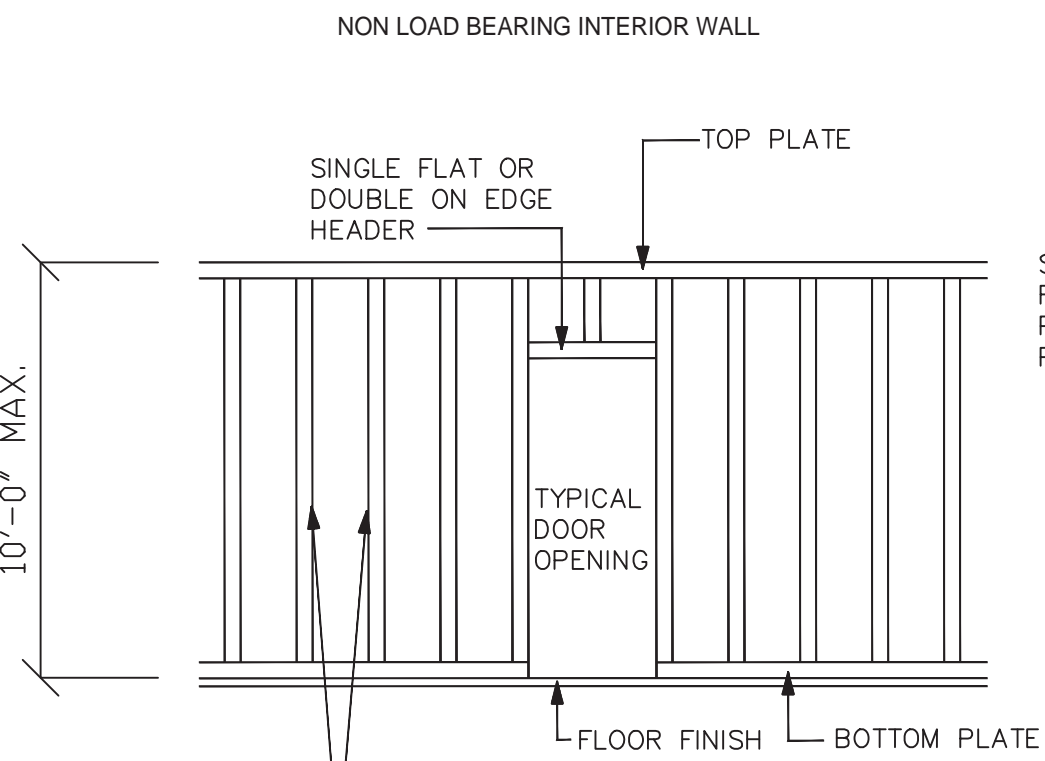
TIE DOWN STRAPPING AT WALL HEADERS



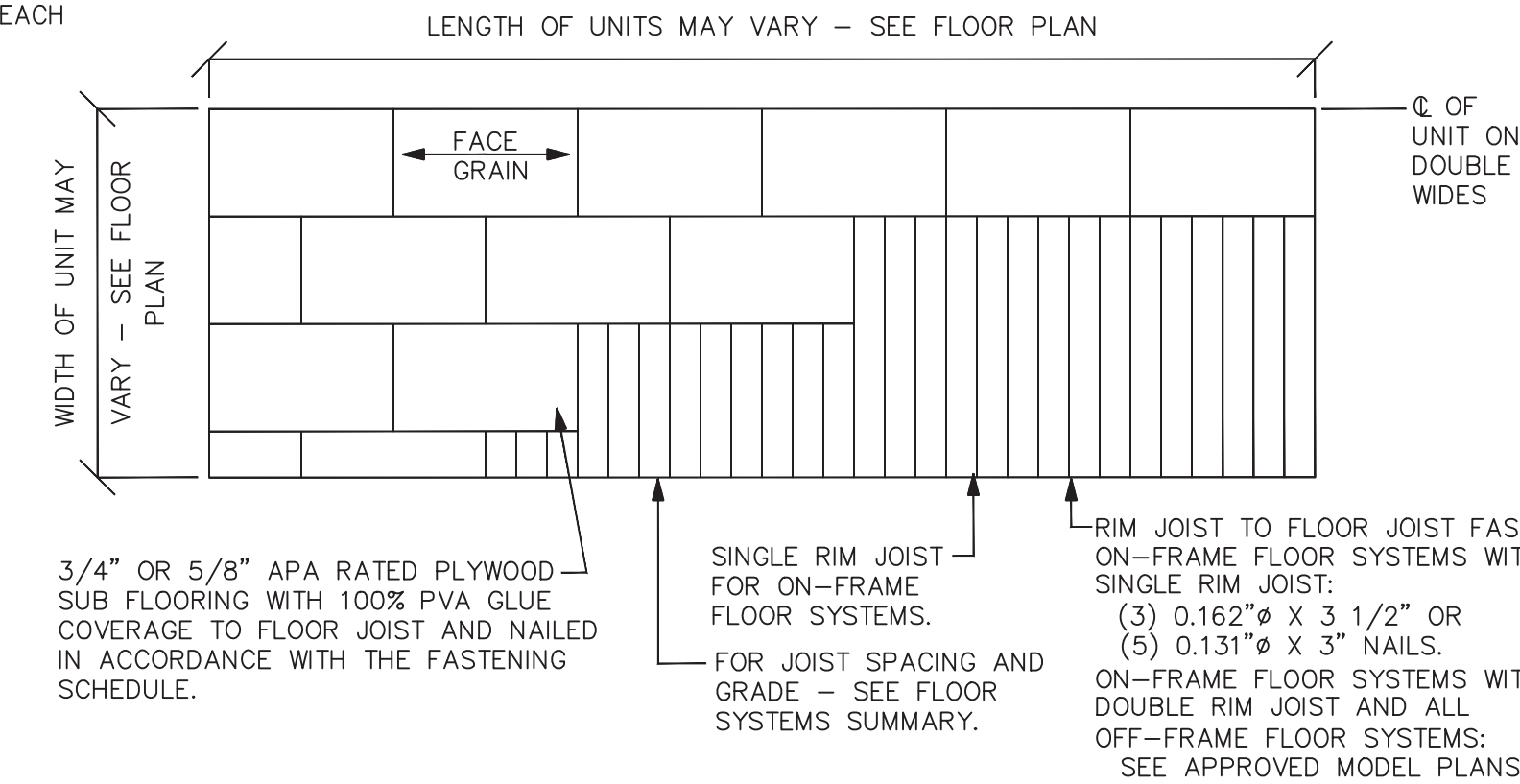
NOTES

- DESIGNER OF MODEL PLANS SHALL SPECIFY REQUIRED STRAP SPECIFICATIONS BASED ON APPLICABLE DESIGN LOADS.
- EACH STRAP FROM CRIPPLE STUD TO HEADER AND FROM HEADER TO JACK STUD AND FROM OPENING STUD TO FLOOR SHALL HAVE EQUIVALENT CAPACITY AS TRUSS (OR TOP PLATE) TO CRIPPLE STUD REQUIRED STRAP CAPACITY UNLESS OTHERWISE SPECIFIED.
- FOR MINIMUM REQUIRED QUANTITY OF JACK AND FULL LENGTH OPENING STUDS SEE OPENING STUD DETAILS. FOR MINIMUM REQUIRED HEADER SIZE AND FASTENING TO OPENING STUDS SEE HEADER OPENING DETAILS.
- FOR INTERCONNECTION OF OPENING STUDS TO EACH OTHER AND HEADER MEMBERS TO EACH OTHER SEE FASTENING SCHEDULE.
- ONE OR MORE HEADER TO JACK STUD STRAPS MAY BE REPLACED WITH FASTENERS FROM THE FULL LENGTH STUD TO END OF HEADER WHICH HAVE EQUIVALENT CAPACITY AS STRAP OR STRAPS BEING REPLACED. FOR EXAMPLE, EACH 0.131" X 3" NAIL IS GOOD FOR 87.9# LATERAL CAPACITY, THEREFORE 6 = 527# AND 11 = 966# (COMPARE TO STRAP CAPACITIES)

WALL INTERCONNECTION DETAIL



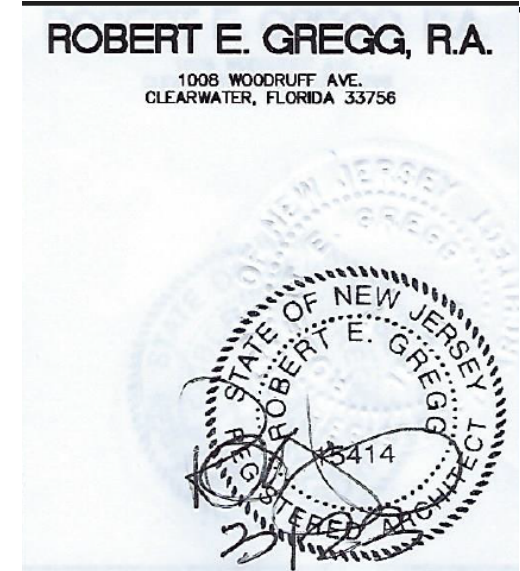
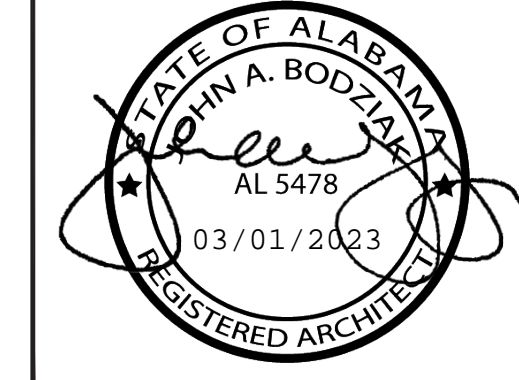
TYPICAL FLOOR FRAMING



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SCALE: N-T-S	KENNETH EARL DUNMON, P.E.
CODES: AL, AR, GA, LA, MD, MO, MS, NC, NJ, OK, PA, SC, TX, WV, VA	
DBI-10407 A-D - 54'-8"x66'-0" - EDUCATION	
FRAMING DETAILS	PAGE: 13 / 14

FASTENING SCHEDULE

CONNECTION	FASTENING	LOCATION			
JOIST TO SILL OR GIRDER	3-8D COMMON (2 1/2" X 0.131")	TOENAIL			
JOIST TO SILL OR GIRDER	3-3"X0.131" NAILS	TOENAIL			
JOIST TO SILL OR GIRDER	3-3"x7/16" 14 GAGE STAPLES	TOENAIL			
BRIDGING TO JOIST	3-8D COMMON (2 1/2" X 0.131")	TOENAIL EACH END	WIDER THAN 1"X8" SHEATHING TO EACH BEARING	3-8D COMMON (2 1/2"x0.131")	FACE NAIL
BRIDGING TO JOIST	3-3"X0.131" NAILS	TOENAIL EACH END			
BRIDGING TO JOIST	3-3"x7/16" 14 GAGE STAPLES	TOENAIL EACH END	BUILT UP CORNER STUDS	16D COMMON (3 1/2"X0.162")	24" O.C.
1"X6" SUBFLOOR OR LESS TO EACH JOIST	2-8D COMMON (2 1/2" X 0.131")	FACE NAIL		3"X0.131" NAILS	16" O.C.
WIDER THAN 1"X6" SUBFLOOR TO EACH JOIST	3-8D COMMON (2 1/2" X 0.131")	FACE NAIL	BUILT UP GIRDER & BEAMS	3"x7/16" 14 GAGE STAPLES	16" O.C.
2" SUBFLOOR TO JOIST OR GIRDER	2-16D COMMON (3 1/2"X0.162")	BLIND & FACE NAIL		20D COMMON (4"X0.192") 32" O.C.	FACE NAIL AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES
SOLE PLATE TO JOIST OR BLOCKING	16D (3 1/2"X 0.135") @ 16" O.C.	TYPICAL FACE NAIL		3"X0.131" NAIL @ 24" O.C.	
SOLE PLATE TO JOIST OR BLOCKING	3"X 0.131" NAILS @ 8" O.C.	TYPICAL FACE NAIL		3"x7/16" 14 GAGE STAPLE @ 24" O.C.	
SOLE PLATE TO JOIST OR BLOCKING	3"x7/16" 14 GA STAPLES @ 12" O.C.	TYPICAL FACE NAIL	BUILT UP GIRDER & BEAMS	2-20D COMMON (4"x0.192")	FACE NAIL AT ENDS AND AT EACH SPLICE
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3-16D (3 1/2"X 0.135") @ 16" O.C.	BRACED WALL PANEL		3-3"X0.131" NAILS	
	4-3"X 0.131" NAILS @ 16" O.C.	BRACED WALL PANEL		3-3"x7/16" 14 GAGE STAPLES	
	4-3"x7/16" 14 GA STAPLES @ 16" O.C.	BRACED WALL PANEL			
TOP PLATE TO STUD	2-16D COMMON(3 1/2"X 0.162")	END NAIL	JACK RAFTER TO HIP	3-10D COMMON (3"X0.148")	TOENAIL
TOP PLATE TO STUD	3-3"X 0.131" NAILS	END NAIL		4-3"X0.131" NAILS	TOENAIL
TOP PLATE TO STUD	3-3"x7/16" 14 GA STAPLES	END NAIL		4-3"x7/16" 14 GAGE STAPLES	TOENAIL
STUD TO SOLE PLATE	4-8D COMMON (2 1/2"x0.131")	TOENAIL	JACK RAFTER TO HIP	2-16D COMMON (3 1/2"X0.162")	FACE NAIL
STUD TO SOLE PLATE	4-3"X0.131" NAILS	TOENAIL		3-3"X0.131" NAILS	FACE NAIL
STUD TO SOLE PLATE	3-3"x7/16" 14 GAGE STAPLES	TOENAIL		3-3"x7/16" 14 GAGE STAPLES	FACE NAIL
STUD TO SOLE PLATE	2-16D COMMON(3 1/2"X 0.162")	TOENAIL	ROOF RAFTER TO 2-BY RIDGE BEAM	2-16D COMMON (3 1/2"X0.162")	TOENAIL
STUD TO SOLE PLATE	3-3"X 0.131" NAILS	TOENAIL		3-3"X0.131" NAILS	TOENAIL
STUD TO SOLE PLATE	3-3"x7/16" 14 GA STAPLES	TOENAIL		3-3"x7/16" 14 GAGE STAPLES	TOENAIL
DOUBLE STUDS	16D (3 1/2"X 0.135") @ 24" O.C.	FACE NAIL	ROOF RAFTER TO 2-BY RIDGE BEAM	2-16D COMMON (3 1/2"X0.162")	FACE NAIL
DOUBLE STUDS	3"X 0.131" NAILS @ 8" O.C.	FACE NAIL		3-3"X0.131" NAILS	FACE NAIL
DOUBLE STUDS	3"x7/16" 14 GA STAPLES @ 8" O.C.	FACE NAIL		3-3"x7/16" 14 GAGE STAPLES	FACE NAIL
DOUBLE TOP PLATES	16D (3 1/2"X 0.135") @ 16" O.C.	TYPICAL FACE NAIL	JOIST TO BAND JOIST	3-16D COMMON (3 1/2"X0.162")	FACE NAIL
DOUBLE TOP PLATES	3"X 0.131" NAILS @ 12" O.C.	TYPICAL FACE NAIL		4-3"X0.131" NAILS	FACE NAIL
DOUBLE TOP PLATES	3"x7/16" 14 GA STAPLES @ 12" O.C.	TYPICAL FACE NAIL		4-3"x7/16" 14 GAGE STAPLES	FACE NAIL
DOUBLE TOP PLATES	8-16D COMMON(3 1/2"X 0.162")	LAP SPLICE	LEDGER STRIP	3-16D COMMON (3 1/2"X0.162")	FACE NAIL AT EACH JOIST
DOUBLE TOP PLATES	12-3"X 0.131" NAILS	LAP SPLICE		4-3"X0.131" NAILS	
DOUBLE TOP PLATES	12-3"x7/16" 14 GA STAPLES	LAP SPLICE		4-3"x7/16" 14 GAGE STAPLES	
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE	3-8D COMMON (2 1/2" X 0.131")	TOENAIL	WOOD STRUCTURAL PANELS AND PARTICLEBOARD, SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS	6D c,1
RIM JOIST TO TOP PLATE	3-3"X0.131" NAILS	TOENAIL		19/32" to 3/4"	2 3/8"x0.113 NAIL a
RIM JOIST TO TOP PLATE	3-3"x7/16" 14 GAGE STAPLES	TOENAIL			1 3/4" 16 GAGE STAPLE o
RIM JOIST TO TOP PLATE	8D (2 1/2" X 0.131") @ 6" O.C.	TOENAIL			8D OR 6D e
RIM JOIST TO TOP PLATE	3"X0.131" NAILS @ 6" O.C.	TOENAIL			2 3/8"x0.113" NAIL p
RIM JOIST TO TOP PLATE	3"x7/16" 14 GAGE STAPLES@ 6" O.C.	TOENAIL			2" 16 GAGE STAPLE p
TOP PLATES, LAPS & INTERSECTIONS	2-16D COMMON (3 1/2"X0.162")	FACE NAIL	SINGLE FLOOR (SUB FLOOR & UNDERLAYMENT TO FRAMING)	7/8" to 1"	8D c
	3-3"X0.131" NAILS	FACE NAIL		1 1/8" to 1 1/4"	10D d OR 8D e
	3-3"x7/16" 14 GAGE STAPLES	FACE NAIL		3/4" AND LESS	6D e
				7/8" to 1"	8D e
				1 1/8" to 1 1/4"	10D d or 8D e
CONTINUOUS HEADER, TWO PIECES	16 D COMMON (3 1/2"x0.162")	16" O.C. ALONG EDGE	PANEL SIDING TO FRAMING	1/2" OR LESS	6D f
CEILING JOISTS TO PLATE	3-8D COMMON (2 1/2"X0.131")	TOENAIL		5/8"	8D f
CEILING JOISTS TO PLATE	5-3"X0.131" NAILS	TOENAIL	FIBERBOARD SHEATHING	1/2"	6D COMMON NAIL (2"X0.113")
CEILING JOISTS TO PLATE	5-3"x7/16" 14 GAGE STAPLES	TOENAIL		25/32"	8D COMMON NAIL (2 1/2"X0.131")
CONTINUOUS HEADER TO STUD	4-8D COMMON (2 1/2"X0.131")	TOENAIL	INTERIOR PANELING	1/4"	4D j
CEILING JOISTS, LAPS OVER PARTITIONS	3-16D COMMON (3 1/2"X0.162") MIN, TABLE 2308.10.4.1	FACE NAIL		3/8"	6D k
	4-3"X0.131" NAILS	FACE NAIL			
	4-3"x7/16" 14 GAGE STAPLES	FACE NAIL			
CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION & TABLE 2308.10.4.1)	3-16D COMMON (3 1/2"X0.162") MIN., TABLE 2308.10.4.1	FACE NAIL			
	4-3"X0.131" NAILS	FACE NAIL			
	4-3"x7/16" 14 GAGE STAPLES	FACE NAIL			
RAFTER TO PLATE (SEE SECTION & TABLE 2308.10.1)	3-8D COMMON (2 1/2"X0.131")	TOENAIL			
	3-3"X0.131" NAILS	TOENAIL			
	3-3"x7/16" 14 GAGE STAPLES	TOENAIL			
1" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8D COMMON (2 1/2"X0.131")	FACE NAIL			
	2-3"X0.131" NAILS	FACE NAIL			
	3-3" 14 GA STAPLES	FACE NAIL			
1"X8" SHEATHING TO EACH BEARING	3-8D COMMON (2 1/2"X0.131")	FACE NAIL			

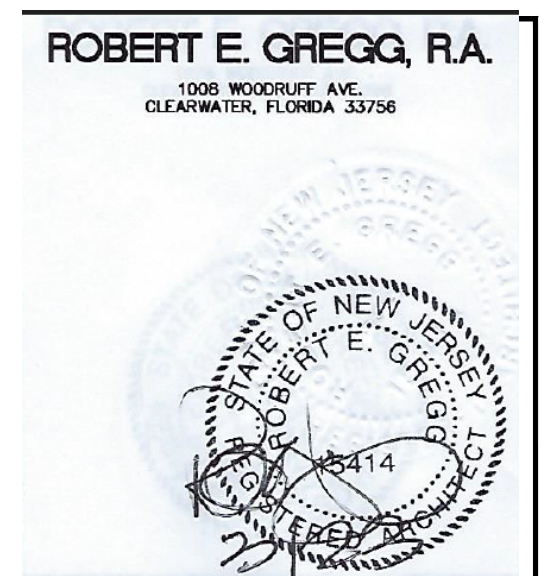


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STATE OF ALABAMA  
 JOHN A. BODZIAK  
 AL 5478  
 03/01/2023  
 REGISTERED ARCHITECT



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