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. FLOORING SHALL BE SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 4 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, T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
7. D/W SYSTEM SHALL BE PVC – DWV.
8. WATER SUPPLY LINES SHALL BE CPVC, OR COPPER, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
9. WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH TANK TYPE UNLESS OTHERWISE NOTED.
10. BUILDING SEWER 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 120°F (48.8°C).
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. WATER PIPING INSTALLED IN AN UNCONDITIONED ATTIC SHALL BE INSULATED WITH AN INSULATION OF R–6.5 MINIMUM.
14. TEMPERATURE AND PRESSURE RELIEF VALVES SHALL BE INSTALLED TO REDUCE WATER TEMPERATURE TO DEFINE LIMITS SHALL SUPPLY NOT LESS
15. WATER SOIL AND WASTE PIPES IN UNCONDITIONED SPACE SHALL BE INSULATED AND PROTECTED FROM FREEZING.
16. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO MAXIMUM TEMPERATURE OF 110°F (43°C)
17. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER IPC, NCPC SECTION 403 ARE NOT PROVIDED WITHIN THE BUILDING, A HANDICAPPED ACCESSIBLE FAMILY OR UNISEX TOILET FACILITY SHALL BE PROVIDED WITHIN A RELATIVELY CLOSE. 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. ALL FAUCETS TO BE THE METERING TYPE PER NCPC.

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, TEMPERED OR ACRYLIC PLASTIC SHEET.
4. ALL STEEL STRAPS REFERENCED ON FLOOR PLAN SHALL BE 1.5 INCH x 26 GA. WITH 7 – 15 GA. x 7/16 INCH CROWN x 1 INCH STAPLES EACH END OF STRAP OR EQUIVALENT FROM RIDGE BEAM TO COLUMN, AND COLUMN TO FLOOR.
5. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. – 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
6. PROVISIONS FOR EXIT SIGNAGE, LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHERE REQUIRED).
7. WHEN LOW SIDES OF ROOF PROVIDE LESS THAN 6" OF OVERHANG, GUTTERS AND DOWN SPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL
8. 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 DESIGNED IN SECTION 1609 OF THE IBC AND NCBC
9. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
10. THIS BUILDING HAS BEEN DESIGNED FOR NORTH CAROLINE CLIMATE ZONE 4a.
11. A FIRE ALARM MUST BE SITE INSTALLED BY OTHERS, SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION.
12. FOR NO 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:

ALL CONCRETE AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE

1. APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2. 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 ARTICLE 410.2.
3. 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 AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS IN THE 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 MAY BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY 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 COMPLI– ANCE W/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 MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES, OR CABLE CONNECTORS.
8. 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 RECEPT ITSELF SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AS REQUIRED.
9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
10. 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.
11. 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).
12. NEC SECTION 406.14 REQUIRES TAMPER RESISTANT RECAPTACLES IN SCHOOLS WITH KIDS AGED 7 YRS AND YOUNGER.

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 14 INCHES x 14 INCHES ADJUSTABLE WITH 6 INCHES x 18 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R–6 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.
3. RESTROOM VENT FANS SHALL PROVIDE 70 CFM EXHAUST PER WATER CLOSET OR URINAL AND VENT TO EXTERIOR.
4. HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROVIDING 10 CFM PER OCCUPANT AND 0.12 CFM PER SQUARE FEET OF BUILDING AREA PER SECTION 403.3 OF IMC AND NCMC
5. EXHAUST FANS SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL AIR INTAKE.
6. THERMOSTATS MUST BE PROGRAMMABLE
7. HEATING SYSTEM CONTROLS MUST BE CAPABLE TO 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.

WINDOW & DOOR SPECIFICATIONS

1. DBL. PANE WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE COMCHECK ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U–FACTOR AND SHGC.
2. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.3 CFM PER SQUARE FEET OF WINDOW AREA.
3. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.3 CFM PER SQUARE FEET OF DOOR AREA.

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 INSTRUCTIONS ON SHEET(S) OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
4. MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM4 AND IM7 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
5. PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM2 AND IM5 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
6. FIRE BLOCKING SHALL BE PROVIDED PER SECTION 718.2 AND 1406.2.4 OF THE N.C. BUILDING CODE (AS APPLICABLE).
7. 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.

ATTENTION LOCAL INSPECTIONS DEPARTMENT

SITE INSTALLED ITEMS

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY DMC 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 DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL EGRESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHERS.
4. BUILDING DRAINS, CLEANOUTS, DRINKING FOUNTAIN SERVICE SINK, 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 MATE(S) – (MULTI–UNITS ONLY).
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI–UNITS ONLY).
9. EXIT DISCHARGE LIGHTING (INCLUDING EMERGENCY)
10. WINDOW AND DOOR HIGH WIND STORM COVERINGS (PER CODE) SEE GENERAL NOTE 8.
11. FIRE ALARM

STRUCTURAL LOAD LIMITATIONS OTHER STATES

BUILDING RISK CATEGORY: II

FLOOR LIVE LOAD:
A. 40 PSF, 100 PSF CORRIDOR
B. 1000 LB. CONCENTRATED LOAD OVER 30 INCH x 30 INCH AREA LOCATED ANYWHERE ON FLOOR
C. 50 PSF FOR FUTURE OFFICE CONVERSION

ROOF LIVE LOAD:
A. 30 PSF

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 = 1.1 SNOW IMPORTANCE FACTOR
E. Ct = 1.0 SNOW THERMAL FACTOR

WIND LOAD: ASCE 7–10
A1 Vult = 150 MPH WIND SPEED
A2 Vasd = 116 MPH WIND SPEED
B. Iw = 1.0 WIND IMPORTANCE FACTOR
C. C WIND EXPOSURE CATEGORY
D. GCpi= 0.18 INTERNAL PRESSURE COEFFICIENT

E. Pn: ZONE 1: 29.4 PSF Pw: ZONE 4: 31.9 PSF
ZONE 2: 49.3 PSF ZONE 5: 39.3 PSF
ZONE 3: 74.2 PSF

F. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.

SEISMIC LOAD:
A. Ie = 1.25 SEISMIC IMPORTANCE FACTOR
B. D SITE CLASS
C. A15 SEISMIC FORCE RESISTING SYSTEM.
D. C SEISMIC DESIGN CATEGORY
E. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
F. S1 = ≤ .537 MAPPED SPECTRAL RESPONSE COEF.
G. Ss = ≤ .785 MAPPED SPECTRAL RESPONSE COEF.
H. Sds = ≤ .49 SPECTRAL RESPONSE COEFFICIENT
I. Sd1 = ≤ .34 SPECTRAL RESPONSE COEFFICIENT
J. V = 45897 LB DESIGN BASE SHEAR
K. R = 6.5 RESPONSE MODIFICATION COEFFICIENT
L. Cs = 0.06 SEISMIC RESPONSE COEFFICIENT

FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

STRUCTURAL LOAD LIMITATIONS NC

OCCUPANCY CATEGORY: II

FLOOR LIVE LOAD:
A. 40 PSF, 100 PSF CORRIDOR
B. 1000 LB. CONCENTRATED LOAD OVER 30 INCH x 30 INCH AREA LOCATED ANYWHERE ON FLOOR
C. 50 PSF FOR FUTURE OFFICE CONVERSION

ROOF LIVE LOAD:
A. 30 PSF

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 = 1.1 SNOW IMPORTANCE FACTOR
E. Ct = 1.0 SNOW THERMAL FACTOR

WIND LOAD: ASCE 7–05
A. 110 MPH WIND SPEED
B. Iw = 1.15 WIND IMPORTANCE FACTOR
C. C WIND EXPOSURE CATEGORY
D. GCpi= 0.18 INTERNAL PRESSURE COEFFICIENT

E. Pn: ZONE 1: 28.5 PSF
ZONE 2: 45.3 PSF
ZONE 3: 76.59 PSF

F. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.

SEISMIC LOAD:
A. Ie = 1.25 SEISMIC IMPORTANCE FACTOR
B. D SITE CLASS
C. A13 SEISMIC FORCE RESISTING SYSTEM.
D. C SEISMIC DESIGN CATEGORY
E. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
F. S1 = ≤ .537 MAPPED SPECTRAL RESPONSE COEF.
G. Ss = ≤ .785 MAPPED SPECTRAL RESPONSE COEF.
H. Sds = ≤ .49 SPECTRAL RESPONSE COEFFICIENT
I. Sd1 = ≤ .34 SPECTRAL RESPONSE COEFFICIENT
J. V = 45897 DESIGN BASE SHEAR
K. R = 6.5 RESPONSE MODIFICATION COEFFICIENT
L. Cs = 0.06 SEISMIC RESPONSE COEFFICIENT

FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

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. INACCESSIBLE ENTRANCES SHALL HAVE 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 SHALL BE LOCATED ON AN ACCESSIBLE ROUTE. THE 36 INCHES ABOVE THE FLOOR FOR INDIVIDUAL IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.
3. 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 TO ACCESSIBLE STORAGE SPACES SHALL BE ACCESSIBLE (I.E. TOUCH LATCHES, U–SHAPED PULLS). OPERATING DEVICE SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR. SHELVES SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE FLOOR. AT LEAST HOOKS SHALL BE A MAXIMUM OF 48 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM WHEN DISTANCE FROM WHEEL CHAIR TO ROD EXCEEDS 10 INCHES). SHELVES IN KITCHENS OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.
4. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN AN ACCESSIBLE REACH RANGE. ELECTRICAL OUTLETS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. CONTROLS SHALL NOT LIMITED TO DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY USED BY BUILDING OCCUPANTS.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. AUDIBLE ALARMS SHALL BE LOCATED THROUGHOUT BUILDING INCLUDING RESTROOMS AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING,WHICH– EVER IS LESS.
6. ALL DOORS SHALL BE OPENABLE WITH 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 MEASURED FROM THE LATCH SIDE SHALL BE 5 SECONDS MINIMUM. THE FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 LBS. FORCE APPLIED TO THE LATCH SIDE.
7. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP–RESISTANT. CHANGES IN LEVEL BET– WEEN 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 SHALL BE ACCOMPLISHED BY MEANS THAT COMPLY WITH RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOOR SILL THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
8. ACCESSIBLE WATER CLOSETS SHALL HAVE GRAB BARS INSTALLED ON THE SIDEWALL WITH THE TOP OF THE BAR LOCATED BETWEEN 33 AND 36 INCHES ABOVE THE FLOOR. 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. THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE REAR 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 SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. KNEE SPACE BELOW THE FRONT EDGE OF AT LEAST 27 INCHES HIGH MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE, AND 9 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 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 NO HIGHER THAN 40 INCHES 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.

LIMITATIONS OF APPROVAL

1. THE APPROVAL OF THE PLAN UNDER THE INDUSTRIALIZED BUILDING COMMISSION PROGRAM IS PART OF THE MANUFACTURERS BUILDING SYSTEM APPROVAL.
2. 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 REQUIREMENTS.

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.



RIGHT ELEVATION

LEFT ELEVATION

REAR ELEVATION

FRONT ELEVATION

MARYLAND NOTES:

1. REFER TO STATE PACKAGE PAGE NO. C32.0 FOR REQUIRED DUCT PROTECTION AT CONNECTION TO HVAC UNIT.
2. 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: GARRETT, ALLEGANY
3. 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.
4. 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.
5. 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 RALATED TO SITE WORK, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERMENT AGENCY FOR REVIEW AND APPROVAL.
6. 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.
7. WHEN THE 2015 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 INSUL. IN CLIMATE ZONE 5. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPERATED 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.

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILTY	ENERGY CODE
NEW JERSEY	2015 IBC W/ N.J. AMENDS	2014 NEC W/N.J. AMENDS	2015 IMC N.J. AMENDS	2015 NATL. STD PC (NSPC) W/ N.J. AMENDS	ICC/ANSI A117.1–2009	2013 ASHRAE 90.1 W/N.J. AMENDS
MARYLAND	2015 IBC 2015 NFPA 101 W/ MD. AMENDMENTS	2014 NEC W/ MD. AMEND.	2015 IMC.	2015 IPC W/ MD.

ELECTRICAL SCHEDULE 'C'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	8-2 (8 GRND)
2, 4	RECEPTACLES,FAN	20 A	12-2 NM
5, 6, 9	RECEPTACLES,FAN	20 A	12-2 NM
7, 8	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'C'	KVA
16...RECEPTS AT 180VA/1000=		2.9
WATER HEATER 6.5 KW =		=
3...FANS AT .3 KW X 1.25=		=
HVAC		10.9
TOTAL 14.9 KW		
TOTAL/240 X 1000= 60 AMPS		
INSTALL 100 A... AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'B'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	8-2 (8 GRND)
2, 4	RECEPTACLES,FAN	20 A	12-2 NM
5, 6	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'B'	KVA
GENERAL LIGHTING		
.0030 KW/SF X 1488 SF X 1.25=		5.6
18...RECEPTS AT 180VA/1000=		3.2
WATER HEATER 6.5 KW =		6.5
4...FANS AT .3 KW X 1.25=		1.5
HVAC		10.9
TOTAL 21.3 KW		
TOTAL/240 X 1000= 89 AMPS		
INSTALL 100 A... AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'A'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	8-2 (8 GRND)
5	DED. CKT. 1.8KW 1220...14	20 A(1P)	12-2 NM
7, 9	WATER HEATER	30 A(2P)	10-2 NM
4	RECEPTACLES,FAN	20 A	12-2 NM
2	LIGHTING,FAN	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
GENERAL LIGHTING		
.0030 KW/SF X 1488 SF X 1.25=		5.6
3...RECEPTS AT 180VA/1000=		1.0
WATER HEATER 4.5 KW =		4.5
4...FANS AT .3 KW X 1.25=		1.6
HVAC		10.9
DED. CKT 1.8KW X 1.25 =		2.4
TOTAL 23.3 KW		
TOTAL/240 X 1000= 98 AMPS		
INSTALL 100 A... AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'F'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	8-2 (8 GRND)
2, 4	RECEPTACLES,FAN	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'F'	KVA
11...RECEPTS AT 180VA/1000=		2.0
WATER HEATER 6.5 KW =		=
3...FANS AT .3 KW X 1.25=		=
HVAC		10.9
TOTAL 13.3 KW		
TOTAL/240 X 1000= 56 AMPS		
INSTALL 100 A... AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'E'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	8-2 (8 GRND)
2, 4	RECEPTACLES,FAN	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'E'	KVA
12...RECEPTS AT 180VA/1000=		2.2
WATER HEATER 6.5 KW =		=
3...FANS AT .3 KW X 1.25=		=
HVAC		10.9
TOTAL 13.5 KW		
TOTAL/240 X 1000= 57 AMPS		
INSTALL 100 A... AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'D'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	8-2 (8 GRND)
6, 8, 9	RECEPTACLES,FAN	20 A	12-2 NM
2, 4,	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'D'	KVA
GENERAL LIGHTING		
.0030 KW/SF X 1488 SF X 1.25=		6.6
18...RECEPTS AT 180VA/1000=		2.9
WATER HEATER 6.5 KW =		=
3...FANS AT .3 KW X 1.25=		=
HVAC		10.9
TOTAL 20.8 KW		
TOTAL/240 X 1000= 87 AMPS		
INSTALL 100 A... AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'I'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	8-2 (8 GRND)
4, 6	RECEPTACLES,FAN	20 A	12-2 NM
2	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'I'	KVA
GENERAL LIGHTING		
.0030 KW/SF X 1337 SF X 1.25=		5.1
16...RECEPTS AT 180VA/1000=		2.9
WATER HEATER 6.5 KW =		=
3...FANS AT .3 KW X 1.25=		=
HVAC		10.9
TOTAL 19.3 KW		
TOTAL/240 X 1000= 81 AMPS		
INSTALL 100 A... AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'H'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	8-2 (8 GRND)
8, 9, 10	RECEPTACLES,FAN	20 A	12-2 NM
2, 4,	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'H'	KVA
GENERAL LIGHTING		
.0030 KW/SF X 1488 SF X 1.25=		6.6
18...RECEPTS AT 180VA/1000=		3.2
WATER HEATER 6.5 KW =		=
3...FANS AT .3 KW X 1.25=		=
HVAC		10.9
TOTAL 20.8 KW		
TOTAL/240 X 1000= 87 AMPS		
INSTALL 100 A... AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'G'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	8-2 (8 GRND)
6, 8, 9, 10	RECEPTACLES,FAN	20 A	12-2 NM
2, 4,	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'G'	KVA
GENERAL LIGHTING		
.0030 KW/SF X 1488 SF X 1.25=		6.6
17...RECEPTS AT 180VA/1000=		3.1
WATER HEATER 6.5 KW =		=
3...FANS AT .3 KW X 1.25=		=
HVAC		10.9
TOTAL 21 KW		
TOTAL/240 X 1000= 87 AMPS		
INSTALL 100 A... AMP PANEL		
120/240 V 1Ø		

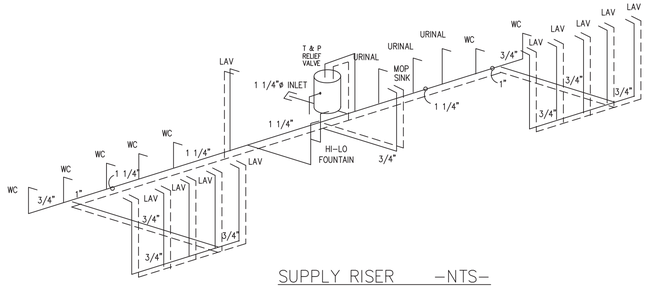
SYMBOLS

J-BOXES ONLY.

- FIRE ALARM PULL STATION
- FIRE ALARM HORN/STROBE 80" AFF
- FIRE ALARM STROBE LIGHT 80" AFF
- JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- D.L.O. WT. J-BOX
- SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- INCANDESCENT LIGHT WITH 1- 60 W. BULB
- COMPACT FLUORESCENT LIGHT 1-60 W. BULB
- D.L.O. WT. POWERED J-BOX
- VENT FAN
- COMB. VENT FAN & LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT 2-150W BULBS
- THERMOSTAT
- FLUORESCENT FIXTURE WITH 2-32W TUBES
- EXIT/EMERGENCY COMBO W/REMOTE HEAD W/BATTERY BACKUP
- EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT SIGN W/BATTERY BACKUP
- EMERGENCY LIGHT WITH BATTERY BACKUP
- TELEPHONE JACK
- SWITCH & 3 WAY SWITCH
- OCCUPANCY SENSOR SWITCH

SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 45 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

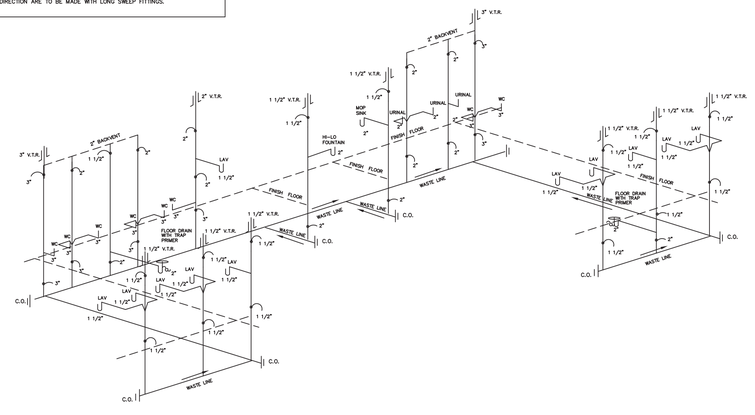
ALL SUPPLY LINES SHALL BE 3/4", ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.



SUPPLY RISER —NTS—

DWV RISER NOTES:

1. THE DWV RISER INDICATES ONE METHOD OF INSTALLING THE BELOW THE FLOOR PIPING. OTHER APPROVED METHODS MAY BE USED AS NEEDED TO ACCOMMODATE THE ACTUAL SITE CONDITIONS.
2. ALL BELOW FLOOR PIPING AND FITTINGS ARE TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS.
3. 1 1/2 INCH AND 2 INCH HORIZONTAL DRAIN LINES SHALL BE INSTALLED WITH A SLOPE OF 1/4 INCH PER FOOT.
4. 3 AND 4 INCH HORIZONTAL DRAIN LINES SHALL BE INSTALLED WITH A SLOPE OF 1/8 INCH PER FOOT.
5. ALL 1 1/2 INCH HORIZONTAL DRAIN LINES ARE 3 INCH MINIMUM DIAMETER UNLESS INDICATED OTHERWISE.
6. A MAXIMUM OF 3 WATER CLOSETS MAY DISCHARGE INTO A 3 INCH LINE.
7. CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS AS INDICATED IN TABLE 706.3, VERTICAL TO HORIZONTAL AND HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION ARE TO BE MADE WITH LONG SWEEP FITTINGS.



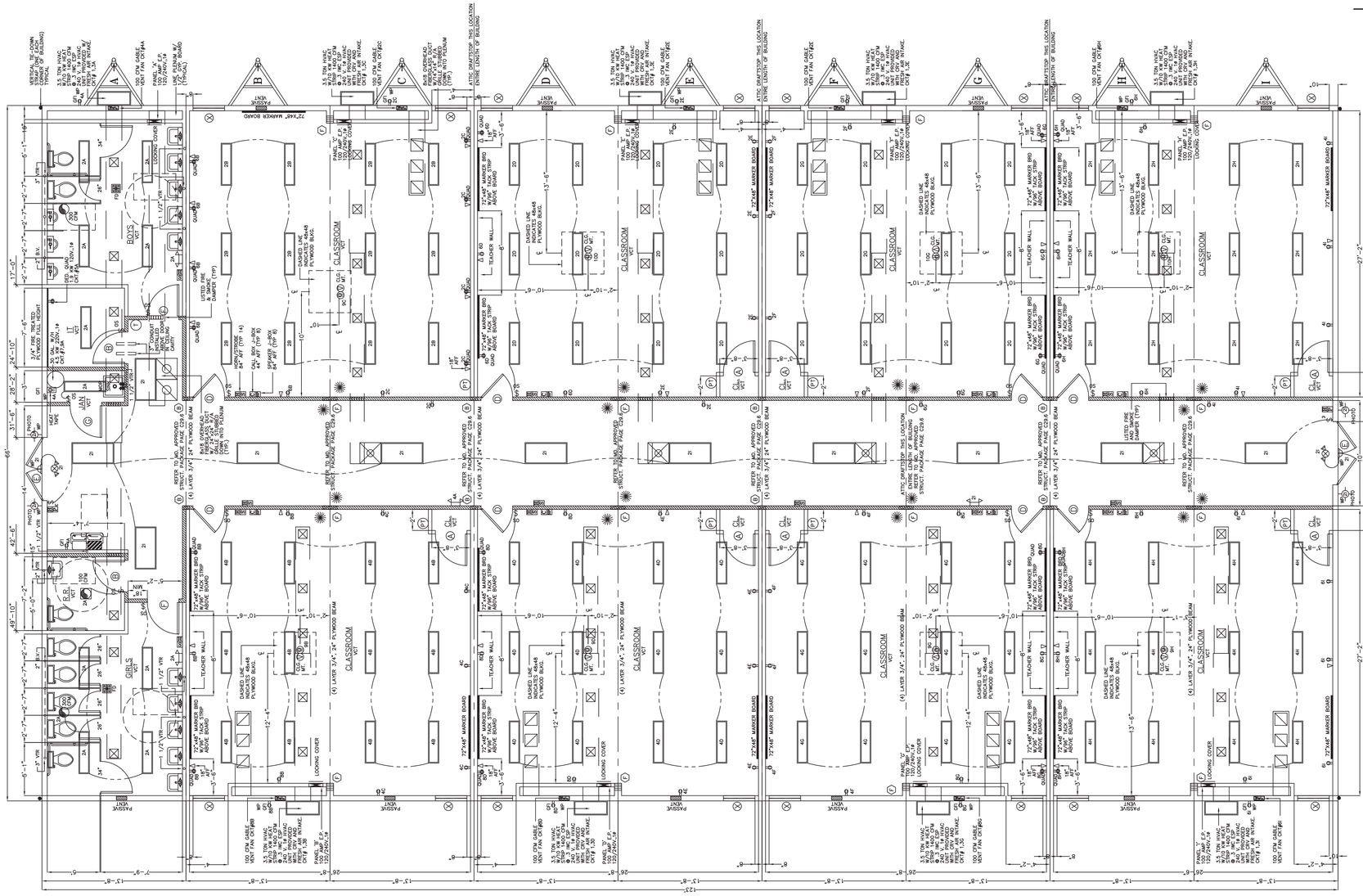
DWV RISER NTS

COLUMN STRAPPING SCHEDULE:

(A) (2) 2x4 SPF #2 THIS HALF.	(B) (2) 2x4 SPF #2 EACH HALF
(C) (3) 2x4 SPF #2 THIS HALF.	(D) (3) 2x4 SPF #2 EACH HALF.
(E) (4) 2x4 SPF #2 THIS HALF.	(F) (4) 2x4 SPF #2 EACH HALF.
(G) (5) 2x4 SPF #2 THIS HALF.	(H) (2) 2x6 SPF #2 EACH HALF.

◉ WITH RIDGE BEAM BEARING STIFFENER

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.



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 APPLIED TO THE FIRE RESISTANT ASSEMBLY OR SHALL HAVE A FLAME-SPREAD INDEX OF 25 OR LESS AND SMOKE DEVELOPED INDEX OF 450 OR LESS AND BE TESTED AT A POSITIVE PRESSURE DIFFERENTIAL BETWEEN THE EXPOSED AND UNEXPOSED SURFACES OF NOT LESS THAN 30 INCH WATER GAGE (7.5 KPA) FOR A PERIOD OF AT LEAST 1 HOUR BUT NOT LESS THAN THE RATING OF THE ASSEMBLY.
2. CABLES AND WIRES WITHOUT COMBUSTIBLE INSULATIONS AND, COMMUNICATIONS CABLES WITH COMBUSTIBLE INSULATION NOT PROTECTED AS DESCRIBED ABOVE SHALL PASS THROUGH SOLID OR GROUT FILLED WITH A MATERIAL MEETING THE REQUIREMENT OF ASTM E119 TESTED AS A PART OF THE ASSEMBLY OR SHALL BE PROTECTED BY A SYSTEM 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 RESISTANCE-RATED ASSEMBLIES. NOT LISTED OR GROUND FIRES. BOXES ON OPPOSITE SIDES OF FIRE RESISTANT WALLS SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
4. ALL CEILING FIXTURES SHALL BE SURFACE MOUNTED.
5. DUCTS PENETRATING FIRE RESISTANT CEILINGS SHALL HAVE AN ACCESSIBLE LISTED FIRE DAMPER LOCATED AT THE CEILING LINE.
6. 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 CLOSERS AND POSITIVE LATCHING HARDWARE.

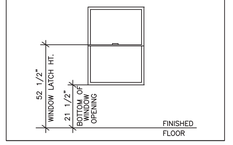
WOOD STUD WALLS:	1 HOUR PER GA FILE NO. WP3520/WP3605
	1 LAYER 5/8" TYPE 'X' GYPSUM EACH SIDE OF WALL.
DROP CEILING:	1 HOUR PER GA FILE NO. WP3605

7. CORRIDOR DAMPERS MUST BE FIRE AND SMOKE DAMPERS IN ACCORDANCE W/2015 IBC, SECTION 717.5.4.1 FOR ALL LOCATIONS THAT ARE ABOVE THE 2015 IBC
8. ALL PENETRATIONS ON 1 HOUR RATED CORRIDOR WALLS AND CEILING SHALL BE FIRE CAULKED WITH METACAULK 1000 OR EQUAL
9. ALL WALL TO WALL AND WALL TO CEILING JOINTS IN THE 1 HOUR RATED CORRIDOR WALLS AND CEILING SHALL BE FIRE CAULKED WITH METACAULK 1000 OR EQUAL

NOTE:
VISION PANELS IN 20 MIN. RATED DOORS MUST COMPLY WITH THE FOLLOWING REQUIREMENTS:
A. THE GLAZING MUST BE SAFETY GLAZED
B. THE GLAZING MUST BE 20 MINUTE RATED
C. THE BOTTOM OF THE GLAZED PANEL MUST BE A MAXIMUM OF 43 INCHES ABOVE FINISHED FLOOR.

WINDOW SCHEDULE

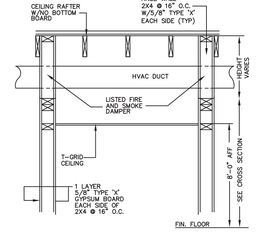
EXTERIOR:
36"x60" VERTICAL SLIDER +50/-50 DP
INSULATED LOW-E, BRONZE ALUMINUM FRAME, TINTED GLASS
OPENING: 33.75"x 24.75" = 7.2 S.F.



SYMBOL	DOOR SCHEDULE	TOTAL
A	36"x80" SOLID CORE IMPERIAL OAK W/REDIFRAME	7
B	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK SMOKE TIGHT	2
C	36"x80" 45 MINUTE FIRE-RATED IMPERIAL OAK	1
D	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK SMOKE TIGHT W/4"x24 VIEW BLOCK, SAFETY GLASS, ADA HEIGHT	8
E	72"x80" STEEL/STEEL W/4"x24" VIEW PANEL AT ADA HEIGHT, PANIC HARDWEARE	2
F	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK PUSH/PULL W/LATCH, SMOKE TIGHT	2
B	36"x80" 45 MINUTE FIRE-RATED IMPERIAL OAK SMOKE TIGHT	1

NOTE:
ALL DOORS TO HAVE CONSTRUCTION CORES FOR FINALE CORES ON SITE

SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"x 60" VERTICAL SLIDE, INSULATED BRONZE/TINTED	16



ONE HOUR CONSTRUCTION

EMC R. JOHNSON APPROVED 06 11 2018

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. 8588
EXPIRATION DATE: 5-6-20

CONSULTING ENGINEER | JAMES BRADLEY, P.E. — 212 FOX TRAIL — PARKESBURG, PA. 19365 — (610) 857-2458

CONSULTING ARCHITECT
ROBERT E. GREGG R.A. LIC.#15414
1008 WOODRUFF AVENUE
CLEARWATER, FL. 33756
(727) 644-8193

MARYLAND STATE APPROVED

MODULAR BUILDING

FOR INFORMATION ONLY

VALID

COMMONWEALTH OF VIRGINIA — JAMES E. BRADLEY — Lic. No. 005836 — PROFESSIONAL ENGINEER

STATE OF MARYLAND — JAMES E. BRADLEY — No. 8588 — PROFESSIONAL ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035899 JAMES E. BRADLEY

DIAMOND BUILDERS INC.
P.O. BOX 2200, DOUGLASS, GEORGIA 31534
440 THOMPSON DR. (912) 384-7080

DATE: 5-25-18	REVISIONS:
SCALE : 3/16"=1'-0"	
CODES: SEE NOTES	
STATES: MD, VA, NC, NJ	BY: J.B.
DBI7774 A-I 123'-0" x 66'-0" EDUCATION	SHEET 2 OF 4
FLOOR PLAN	MD PLAN NO. DBI 7774 MD / DESTINATION: BALTIMORE, MD

INTERIOR FINISH MATERIAL:

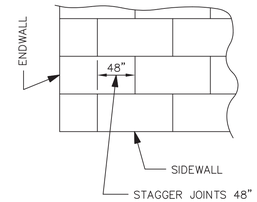
CORRIDOR CEILING	–	BARE (T–GRID CEILING SUPPLIED AND INSTALLED BY OTHERS, INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION
CLASSROOM CEILING	–	BARE (1/2" GYP BOARD SUPPLIED AND INSTALLED BY OTHERS, INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION (SEASPRAY)
WALL	–	5/8" TYPE 'X' GYPSUM BOARD (VCG THROUGHTOUT) INSTALLED PER MANUFACTURERS SPECIFICATIONS.
FLOOR	–	AS NOTED ON 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 60 MIL (BLACK) EPDM FULLY ADHERED IN ACCORDANCE W/ESR 1776 OVER 7/16" MULE–HIDE FR DECK PANEL 'C' INSTALLED PER MANUFACTURERS SPECIFICATIONS.

WALL – 7/16" SMART PANEL SIDING OVER APPROVED MOISTURE BARRIER. INSTALLED PER MANUFACTURERSSPECIFICATIONS.

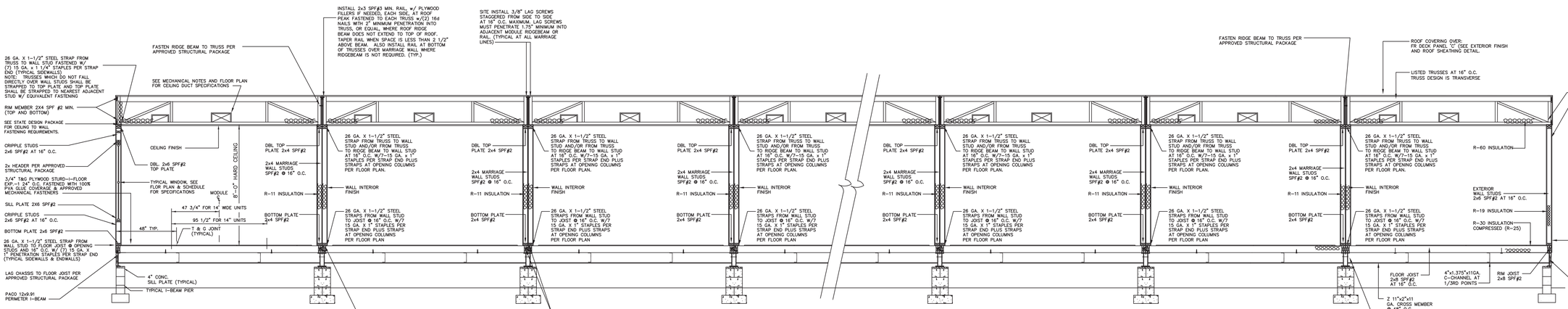


MULEHIDE:
FR DECK PANEL 'C' TO BE FASTENED TO TRUSSES PER APPROVED STRUCTURAL PACKAGE

ROOF SHEATHING DETAIL

APPROVED TRUSS DESIGN:
TRUSS PAGE # : SOUTHEREN WOOD COMPONENTS
TRUSS DRAWING. # SWF3063
OR REFER TO ATTACHED DWG.

ATTIC VENTILATION IS PROVIDED BY (1) 100 CFM FAN AND (1) GABLE VENT PER MODULE.



R. JOHNSON
APPROVED
06 11 2018

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:

1. PLYWOOD FACE GRAIN MUST BE PARALLEL TO THE RIDGE BEAM SPAN.
2. ALL PLYWOOD BUTT JOINTS MUST BE STAGGERED 24" MINIMUM.
3. ALL RIDGE BEAM PLYWOOD LAMINATIONS MUST BE THE SAME DEPTH, THICKNESS, AND GRADE OF PLYWOOD. NO LUMBER OR PLYWOOD FLANGES ARE PERMITTED.
4. PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE W/ PS I–95.
5. PLYWOOD LAMINATIONS IN EACH HALF OF THE UNITS MUST BE GLUE NAILED TO ADJACENT LAYERS IN ACCORDANCE W/PDS SUPPLEMENT #5, W/ AN ADHESIVE COMPLYING W/ASTM D2559 (SEE APPROVED PACKAGE FOR MECHANICAL FASTENER SPECIFICATIONS & SPACING REQUIRMENTS
6. PLYWOOD MUST NOT BE TREATED W/ A FIRE RETARDANT PROCESS.
7. MOISTURE CONTENT MUST BE LESS THAN 16%.
8. BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
9. 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.

GENERAL CROSS–SECTION NOTES:

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

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. 8088
EXPIRATION DATE: 6–15–20

CONSULTING ENGINEER | JAMES BRADLEY, P.E. – 212 FOX TRAIL – PARKESBURG, PA. 19365 – (610) 857–2458

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MARYLAND STATE APPROVED

MODULAR BUILDING

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NORTH CAROLINA — SEAL — 026859 — PROFESSIONAL ENGINEER — JAMES E. BRADLEY

DIAMOND BUILDERS INC.
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DATE: 5–25–18	REVISIONS:
SCALE : AS NOTED	
CODES: SEE NOTES	
STATES: MD, VA, NC, NJ	BY: J.B.
DBI7774 A–I 123'–0" x 66'–0" EDUCATION	SHEET 1 OF 4
COVER SHEET	MD PLAN NO. DBI 7774 MD / DESTINATION: BALTIMORE, MD