

MD - 2018 IBC - STRUCTURAL LOAD LIMITATIONS

FLOOR LIVE LOAD:
A. DEAD LOAD = 12 PSF (AVERAGE).
B. UNIFORM LIVE LOAD = 100 PSF.
C. CONCENTRATED LOAD (ALTERNATE)= 2,000 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 = 30 PSF
B. FLAT-ROOF SNOW LOAD Pf = 30 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) 130 MPH
B. ASD WIND SPEED (3 SEC GUST) 101 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 = +/- 49.2 psf (Pasd = +/- 29.5 PSF)
WALL ZONE 4: P = +/- 39.9 psf (Pasd = +/- 24.0 PSF)
ROOF ZONE 3: P = - 105.4 psf (Pasd = - 63.2 PSF)
ROOF ZONE 2: P = - 77.3 psf (Pasd = - 46.4 PSF)
ROOF ZONE 1: P = - 58.6 psf (Pasd = - 35.1 PSF)
ROOF ZONE 1': P = - 33.6 psf (Pasd = - 20.2 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:
E. Ss = < 0.173 S1 = < 0.046 Sds = < 0.184 Sd1 = < 0.073
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. SEISMIC RESPONSE COEFFICIENT Cs = N/A
J. DESIGN BASE SHEAR V = 4,854 LB
FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.
ROOF RAIN LOAD:
A. RAIN INTENSITY: i = 3.06 INCHES / HOUR.

NC/ VA - STRUCTURAL LOAD LIMITATIONS

FLOOR LIVE LOAD:
A. 100 PSF IN CORRIDOR, 50 PSF REMAINDER
B. 2000 LB CONCENTRATED LOAD OVER 30"X30" AREA AT ANY LOCATION
ROOF LIVE LOAD:
A. 30 PSF
ROOF SNOW LOAD:
A. Pg = 30 PSF GROUND SNOW LOAD
B. Pf = 30 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
H. Pm = 20 PSF LOW-SLOPE SNOW LOAD
I. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-10.
WIND LOAD: ASCE 7-10
A. 130 MPH Vult ULTIMATE WIND SPEED
B. 100 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 = +/- 49.2 psf (Pasd = +/- 29.5 PSF)
WALL ZONE 4: Pult = +/- 39.9 psf (Pasd = +/- 24.0 PSF)
ROOF ZONE 3: Pult = - 92.9 psf (Pasd = - 55.8 PSF)
ROOF ZONE 2: Pult = - 61.7 psf (Pasd = - 37.0 PSF)
ROOF ZONE 1: Pult = - 36.8 psf (Pasd = - 22.1 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 = < 0.178 S1 = < 0.057 Sds = < 0.19 Sd1 = < 0.091
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. Cs = N/A SEISMIC RESPONSE COEFFICIENT
J. V = 5,013 LB DESIGN BASE SHEAR
FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

| CODE SUMMARY: | | | | | | |
|---------------|---|-----------------------------|--------------------------|--------------------------|---|---------------------------|
| STATE | BUILDING | ELEC. | MECH. | PLUMB. | ACCESS. | ENERGY |
| MD | 2018 IBC W/ MD AMEND. 2018 NFPA 101 LSC W/ MD AMEND. | 2017 NEC W/ MD AMEND. | 2018 IMC | 2018 IPC W/ MD AMEND. | 2012 M.A.C. 2010 ADA | 2018 IECC W/ MD AMEND. |
| NC | NCBC 2018 2018 NCFC | 2017 NC ELECTRIC CODE | 2018 NCMC | 2018 NCPC | NCBC 2012 CHPT.11 & ICC/ANSI A117.1-2009 | 2018 NC ENERGY CODE |
| VA | 2015 VA UNIFORM STATEWIDE BLDG CODE, 2015 IBC, 2015 IFC | 2014 NEC | 2015 IMC W/ VA AMEND. | 2015 IPC W/ VA AMEND. | ICC/ANSI A117.1-2009 | 2015 IECC |

BUILDING DESIGN PARAMETERS

- USE / OCCUPANCY: OFFICE / BUSINESS
- CONSTRUCTION TYPE: VB
- SPRINKLER SYSTEM: N/A
- BUILDING AREA: 4,900 SQ FT
- BUILDING HEIGHT: < 15 FEET
- NUMBER OF STORIES: 1
- NUMBER OF MODULES: 7
- OCCUPANT LOAD (49) BASED ON [100] SQ FT PER OCCUPANT.-2015 IBC
- OCCUPANT LOAD (33) BASED ON [150] SQ FT PER OCCUPANT . - 2018 IBC
- EXTERIOR WALL FIRE RATING N/A
- THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY THE IBC 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.

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.

DRAWING INDEX

1 OF 8 STRUCT. / CODES
2 OF 8 NOTES
3 OF 8 FLOOR PLAN
4 OF 8 ELECTRICAL
5 OF 8 MECHANICAL
6 OF 8 REFLECTED CEILING
7 OF 8 ELEVATIONS
8 OF 8 CROSS SECTION
1 OF 1 FOUNDATION

MARLYLAND PLAN NO.: TMS5886--A MD, TMS5886--B MD, TMS5886--C MD, TMS5886--D MD, TMS5886--E MD, TMS5886--F MD, TMS5886--G MD
MARYLAND SERIAL NO.: 5886A, 5886B, 5886C, 5886D, 5886E, 5886F, 5886G

RECEIVED

FEB 03 2021

TOWN OF ELKTOWN
BUILDING & PLANNING

RADCO APPROVED

Jan 08, 2021

RESOURCES, APPLICATIONS, DESIGN & CONTROLS, INC.
EASTERN NATIONAL REGION
5801 BENJAMIN CENTER DRIVE, SUITE 102
TAMPA, FL 33634
(813) 243-0370 • O 1 (813) 243-1314 • F
www.radcoinc.com



THIRD PARTY DESIGN APPROVAL & INSPECTION AGENCY

DESTINATION: ELKTOWN, MD

TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE • ALMA, GA 31510
912-632-3344 (PH) • 912-632-3345 (FX)

| | |
|-----------------------------------|--------------------------------------|
| DATE: 12-31-20 | ENGINEERS: JAMES ALLEN CHAPMAN, P.E. |
| SCALE: N-T-S | AMERICUS, GA 31719 |
| CODES: MD, NC, VA | |
| TMS-5886 A-G - 84'x60' - BUSINESS | |
| COVER SHEET | PAGE: 1 / 8 |



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. 50207, EXPIRATION DATE: 11-30-2022.

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. SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTION REQUIREMENTS.
5. PORTABLE FIRE EXTINGUISHERS PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
6. 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).
7. 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.
8. STRAPPING MUST BE TESTED AND / OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY. APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
9. STRUCTURAL DETAILS NOT INCLUDED IN THIS PLAN SET ARE TO BE CONSTRUCTED ACCORDING TO THE MANUFACTURER'S BUILDING SYSTEM MANUAL.
10. 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.
11. THIS STRUCTURE CAN NOT BE LOCATED ON THE SEAWARD SIDE OF THE COASTAL CONSTRUCTION CONTROL LINE.
12. ALL CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THESE DRAWINGS.
13. 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.
14. 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.
15. 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.

ELECTRICAL NOTES:

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATED 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 "STORAGE AREA" AS DEFINED BY NEC 410-8(a).
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 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.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTION 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 COMPLIANCE WITH SECTION 110-9 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 THE MODULE MATE LINE 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 RECEPTACLE ITSELF SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AS PER NEC.
9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCCELL OR TIMER.

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES X 24 INCHES ADJUSTABLE WITH 20 INCHES X 10 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R-4.2 MINIMUM INSULATION. SUPPLY DUCTS EXPOSED TO UNVENTILATED ATTICS SHALL HAVE MINIMUM R-6 INSULATION.
2. 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).
3. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES PROVIDING 5 CFM PER PERSON AND 0.06 CFM PER SQUARE FOOT OF BUILDING AREA.
4. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
5. EXHAUST FANS SHALL PROVIDE A MINIMUM OF 50 CFM FOR EACH WATER CLOSET AND URINAL.
6. EXHAUST FANS SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL AIR INTAKE.
7. THERMOSTATS ARE TO BE PROGRAMMABLE.
8. 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.
9. HVAC SYSTEMS MUST BE BALANCED IN ACCORDANCE WITH ACCEPTED PRACTICE. ON SITE BY OTHERS.

ACCESSIBILITY NOTES:

1. 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.
2. 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 ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (IE TOUGH 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.
4. 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.
5. 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.
6. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 POUNDS FOR ALL SLIDING, FOLDING AND INTERIOR HINGED DOORS.
7. FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 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.
8. 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.

PLUMBING NOTES:

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

WINDOW AND DOOR SPECIFICATIONS

1. 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).
2. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.3 CFM PER SQUARE FOOT OF WINDOW AREA.
3. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.3 CFM PER SQUARE FOOT OF DOOR AREA.

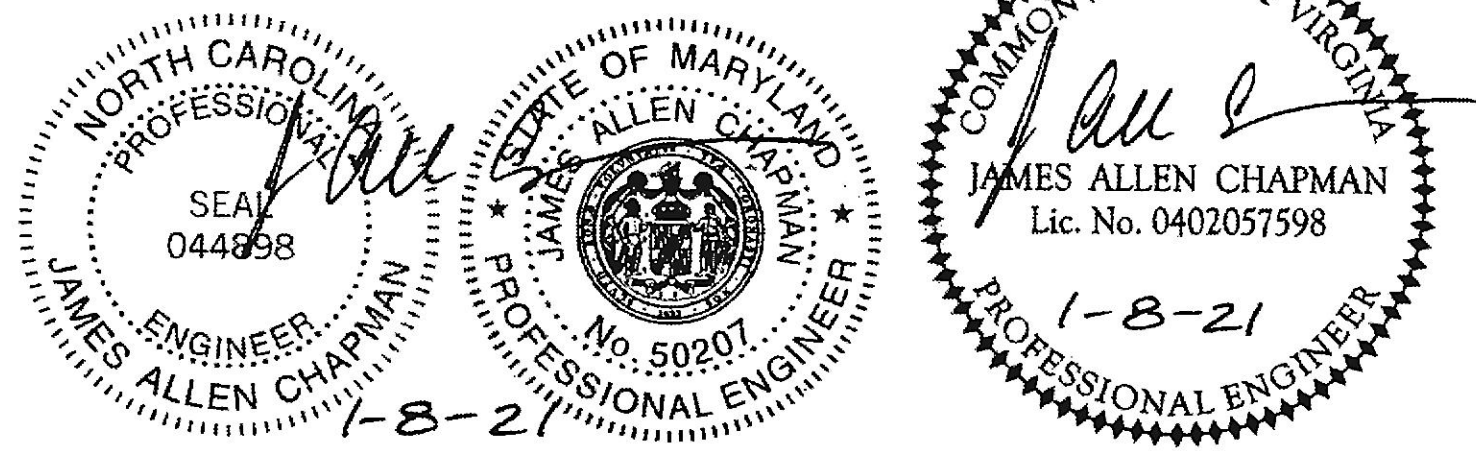
SITE INSTALLED ITEMS

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.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. RESTROOMS, DRINKING FOUNTAINS, BUILDING DRAINS, CLEANOUTS AND HOOK UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK UP (INCLUDING FEEDERS) TO THE BUILDING.
6. GLAZED OPENING PROTECTION (SEE GENERAL NOTES)
7. EXIT DISCHARGE LIGHTING (INCLUDING EMERGENCY)
8. PRODUCT APPROVED STORM PROTECTION (IMPACT RESISTANT SHUTTERS) SHALL BE REQUIRED FOR GLAZED AND / OR DOOR OPENINGS AND INSTALLED ON SITE BY OTHERS.
9. HANDICAP TACTILE SIGNAGE.
10. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINES.
11. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNIT).

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: ALLEGANY, CAROLINE, CARROLL, GARRETT, HOWARD, PRINCE GEORGE'S, WASHINGTON.
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 RELATED TO SITE WORK, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERNMENT AGENCY FOR REVIEW AND APPROVAL.
6. A SITE PLAN IS NOT REQUIRED FOR THIS PROJECT DUE TO BUILDING SIZE.
7. 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.
8. 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.



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. 50207, EXPIRATION DATE: 11-30-2022.

RADC O APPROVED
Jan 08, 2021

RESOURCES, APPLICATIONS, DESIGN & CONTROLS, INC.
EASTERN NATIONAL REGION
5801 BENJAMIN CENTER DRIVE, SUITE 102
TAMPA, FL 33634
(813) 243-0370 • O I (813) 243-1314 • F
www.radcinc.com

RADC O

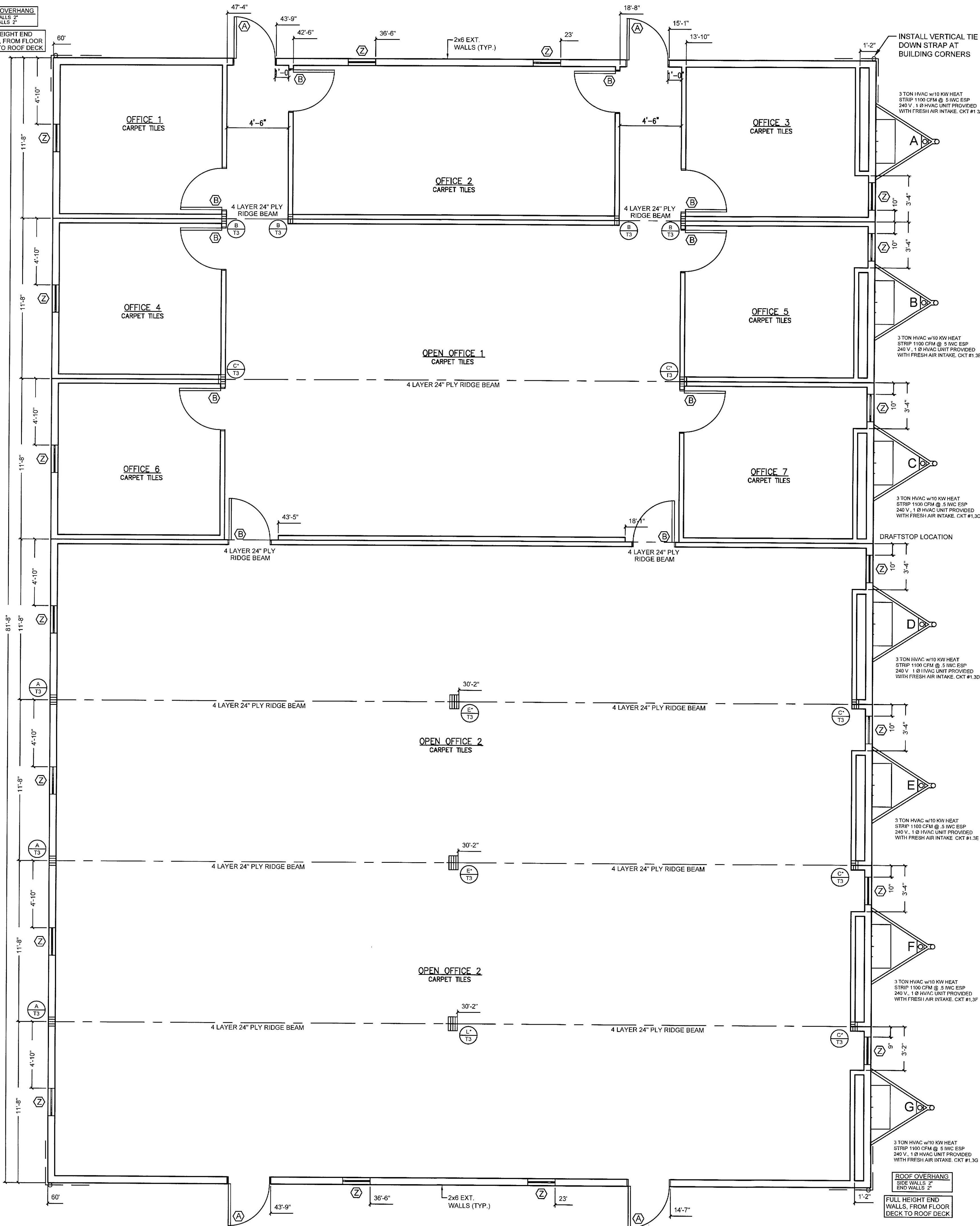
YOUR VISION • OUR MISSION!

THIRD PARTY DESIGN APPROVAL & INSPECTION AGENCY

| | |
|--|---|
| <h1 style="text-align: center;">TITAN MODULAR</h1> <h2 style="text-align: center;">SYSTEMS, INC.</h2> <p style="text-align: center;">162 INDUSTRIAL DRIVE * ALMA, GA 31510 912-632-3344 (PH) * 912-632-3345 (FX)</p> | |
| DATE: 12-31-20 | ENGINEERS: JAMES ALLEN CHAPMAN, P.E. AMERICUS, GA 31719 |
| SCALE: N-T-S | |
| CODES: MD, NC, VA | |
| TMS-5886 A-G - 84'x60' - BUSINESS | |
| NOTES | PAGE: 2 / 8 |

ROOF OVERHANG
SIDE WALLS 2'
END WALLS 2'

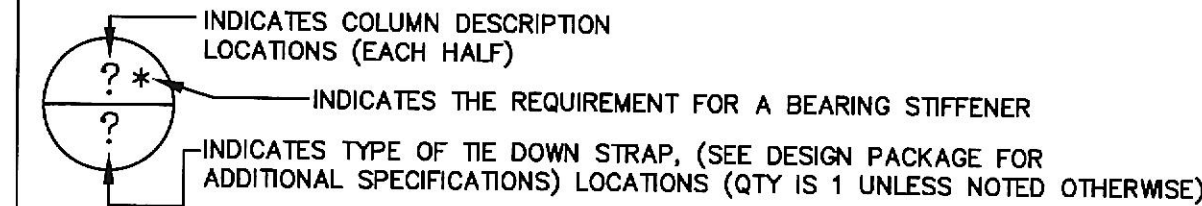
FULL HEIGHT END
WALLS, FROM FLOOR
DECK TO ROOF DECK



DRAFTSTOPPING NOTES:

- SEE FLOOR PLAN FOR REQUIRED DRAFTSTOPPING LOCATIONS
- DRAFTSTOPPING SHALL EXTEND CONTINUOUSLY FOR THE FULL LENGTH OF MATELINES AND TRUSSES WHERE INDICATED
- DRAFTSTOPPING SHALL EXTEND CONTINUOUSLY FULL HEIGHT FROM ROOF SHEATHING TO FINISH CEILING MATERIAL.
- DRAFTSTOPPING MATERIAL SHALL BE MINIMUM $\frac{1}{2}$ INCH GYPSUM BOARD, $\frac{3}{8}$ INCH PLYWOOD OR $\frac{1}{8}$ INCH OSB.
- ALL DRAFTSTOPPING EDGES SHALL BE TIGHTLY FIT, INCLUDING THE ANNULAR SPACE AROUND MECHANICAL AND ELECTRICAL PENETRATIONS, SO AS TO PREVENT THE PASSAGE OF AIR.

COLUMN STUDS AND STRAPPING



COLUMN DESCRIPTIONS

- A - 2-2"x6" SYP #2 EACH HALF
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 - 4-2"x6" SYP #2 EACH HALF
- B1 - 2-2"x4" SYP #2
C1 - 3-2"x4" SYP #2
D1 - 4-2"x4" SYP #2

TIE DOWN STRAPPING

- T1 = 20 GA x 1.5" GALV. STEEL STRAP WITH (6) 0.148" x 1.5" NAILS EACH END.
2- 26 GA x 1.5" GALV. STEEL STRAPS MAY BE SUBSTITUTED OR 1- 20 GA x 1.5" STRAP.
- T2 = 26 GA x 1.5" GALV. STEEL STRAP WITH (7) 14 GA OR 15 GA x $\frac{7}{8}$ x 1" PENETRATION STAPLES EACH END.
- T3 = 0.035" (20 GA) x 1.25" HOT-DIPPED GALV. STEEL STRAP (G60 OR BETTER) COMPLYING WITH ASTM D3953-91, Fy=108 KSI, 4725 LB. MINIMUM ULTIMATE CAPACITY, FASTENED TO RIDGE BEAM WITH (17) 0.148" x 1.5" NAILS (Fyb= 90 KSI MIN) AND EXTENDED CONTINUOUSLY BELOW FLOOR.

DOOR SCHEDULE

| | |
|-----|---|
| (A) | 3680 - STEEL DOOR w/10"x10" SAFETY GLASS VIEW BLOCK - STEEL JAMB - CLOSURE - LEVER HARDWARE |
| (B) | 3680 - HOLLOW CORE - 6 PANEL DOOR WOOD JAMB - PASSAGE LEVER HARDWARE |

WINDOW SCHEDULE

| | |
|-----|---|
| (Z) | 2454 - VERTICAL SLIDER DP 50 INSULATED LOW-E TINTED GLASS VINYL FRAME - VINYL MINI BLINDS |
|-----|---|

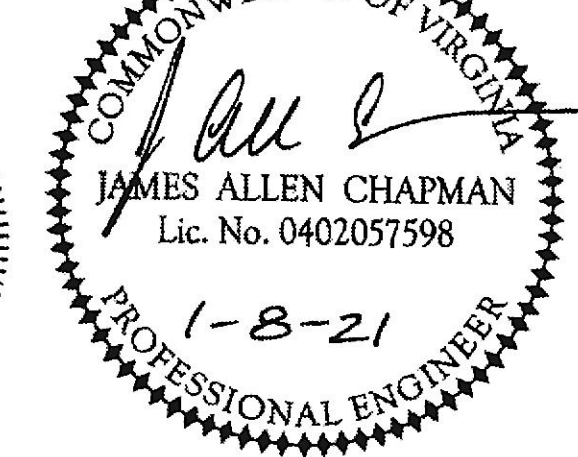
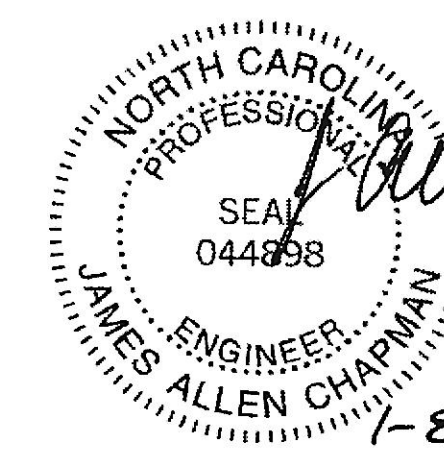
RADCO APPROVED

Jan 08, 2021

RESOURCES, APPLICATIONS, DESIGN & CONTROLS, INC.
EASTERN NATIONAL REGION
5801 BENJAMIN CENTER DRIVE, SUITE 102
TAMPA, FL 33634
(813) 243 0370 • (813) 243 1314 •
www.radconline.com



THIRD PARTY DESIGN APPROVAL & INSPECTION AGENCY



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. 50207, EXPIRATION DATE: 11-30-2022.

TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE • ALMA, GA 31510
912-632-3344 (PH) • 912-632-3345 (FX)

| | |
|-----------------------------------|---|
| DATE: 12-31-20 | ENGINEERS: JAMES ALLEN CHAPMAN, P.E. AMERICUS, GA 31719 |
| SCALE: AS NOTED | |
| CODES: MD, NC, VA | |
| TMS-5886 A-G - 84'x60' - BUSINESS | |
| FLOOR PLAN | PAGE: 3 / 8 |

FLOOR PLAN

$\frac{3}{16}$ " = 1'-0"

| ELECTRICAL SIZING | 120/240V | SGL PHASE | INSTALL | 100 AMP PANEL |
|--------------------|----------|-----------|---------|---------------|
| PANEL A | | | | |
| ID | QTY | UNITS | KW | SUB-TOTAL |
| HVAC 3 TON | 1 | EACH | 10.6 | 10.60 |
| WATER HEATER | 0 | EACH | 4.5 | 0.00 |
| LIGHTS | 700 | SQ FT | 0.0035 | 3.06 |
| RECEPTACLES | 15 | EACH | 0.18 | 2.70 |
| EXHAUST FANS | 0 | EACH | 0.4 | 0.00 |
| DEDICATED CIRCUITS | 0 | EACH | 1.9 | 0.00 |
| | | TOTAL = | | 16.36 |
| | | TOTAL = | 66.2 | AMPS |

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

| ELECTRICAL SIZING | 120/240V | SGL PHASE | INSTALL | 100 AMP PANEL |
|--------------------|----------|-----------|---------|---------------|
| PANEL B | | | | |
| ID | QTY | UNITS | KW | SUB-TOTAL |
| HVAC 3 TON | 1 | EACH | 10.6 | 10.60 |
| WATER HEATER | 0 | EACH | 4.5 | 0.00 |
| LIGHTS | 700 | SQ FT | 0.0035 | 3.06 |
| RECEPTACLES | 15 | EACH | 0.18 | 2.70 |
| EXHAUST FANS | 0 | EACH | 0.4 | 0.00 |
| DEDICATED CIRCUITS | 0 | EACH | 1.9 | 0.00 |
| | | TOTAL = | | 16.36 |
| | | TOTAL = | 66.2 | AMPS |

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

| ELECTRICAL SIZING | 120/240V | SGL PHASE | INSTALL | 100 AMP PANEL |
|--------------------|----------|-----------|---------|---------------|
| PANEL C | | | | |
| ID | QTY | UNITS | KW | SUB-TOTAL |
| HVAC 3 TON | 1 | EACH | 10.6 | 10.6 |
| WATER HEATER | 0 | EACH | 4.5 | 0.00 |
| LIGHTS | 700 | SQ FT | 0.0035 | 3.1 |
| RECEPTACLES | 13 | EACH | 0.18 | 2.3 |
| EXHAUST FANS | 0 | EACH | 0.4 | 0.0 |
| DEDICATED CIRCUITS | 0 | EACH | 1.9 | 0.0 |
| | | TOTAL = | | 16.0 |
| | | TOTAL = | 66.7 | AMPS |

| ELECTRICAL PANEL SCHEDULE C | | | | |
|-----------------------------|-------------|---------------|-----------|--|
| CIRCUIT ID | DESCRIPTION | BREAKER | WIRE | |
| 1,3 C | HVAC 3 TON | 60A (2P) HACR | 6-6-10 MC | |
| 2 C | LIGHTS | 20A | 12 | |
| 4, 5 C | RECEPTACLES | 20A | 12 | |

| ELECTRICAL SIZING | 120/240V | SGL PHASE | INSTALL | 100 AMP PANEL |
|--------------------|----------|-----------|---------|---------------|
| PANEL D | | | | |
| ID | QTY | UNITS | KW | SUB-TOTAL |
| HVAC 3 TON | 1 | EACH | 10.6 | 10.60 |
| WATER HEATER | 0 | EACH | 4.5 | 0.00 |
| LIGHTS | 700 | SQ FT | 0.0035 | 3.06 |
| RECEPTACLES | 10 | EACH | 0.18 | 1.80 |
| EXHAUST FANS | 0 | EACH | 0.4 | 0.00 |
| DEDICATED CIRCUITS | 0 | EACH | 1.9 | 0.00 |
| | | TOTAL = | | 15.46 |
| | | TOTAL = | 64.4 | AMPS |

| ELECTRICAL PANEL SCHEDULE D | | | | |
|-----------------------------|-------------|---------------|-----------|--|
| CIRCUIT ID | DESCRIPTION | BREAKER | WIRE | |
| 1,3 D | HVAC 3 TON | 60A (2P) HACR | 6-6-10 MC | |
| 2 D | LIGHTS | 20A | 12 | |
| 4, 5 D | RECEPTACLES | 20A | 12 | |

| ELECTRICAL SIZING | 120/240V | SGL PHASE | INSTALL | 100 AMP PANEL |
|--------------------|----------|-----------|---------|---------------|
| PANEL E | | | | |
| ID | QTY | UNITS | KW | SUB-TOTAL |
| HVAC 3 TON | 1 | EACH | 10.6 | 10.60 |
| WATER HEATER | 0 | EACH | 4.5 | 0.00 |
| LIGHTS | 700 | SQ FT | 0.0035 | 3.06 |
| RECEPTACLES | 5 | EACH | 0.18 | 0.90 |
| EXHAUST FANS | 0 | EACH | 0.4 | 0.00 |
| DEDICATED CIRCUITS | 0 | EACH | 1.9 | 0.00 |
| | | TOTAL = | | 14.56 |
| | | TOTAL = | 60.7 | AMPS |

| ELECTRICAL PANEL SCHEDULE E | | | | |
|-----------------------------|-------------|---------------|-----------|--|
| CIRCUIT ID | DESCRIPTION | BREAKER | WIRE | |
| 1,3 E | HVAC 3 TON | 60A (2P) HACR | 6-6-10 MC | |
| 2 E | LIGHTS | 20A | 12 | |
| 4, 5 E | RECEPTACLES | 20A | 12 | |

| ELECTRICAL SIZING | 120/240V | SGL PHASE | INSTALL | 100 AMP PANEL |
|--------------------|----------|-----------|---------|---------------|
| PANEL F | | | | |
| ID | QTY | UNITS | KW | SUB-TOTAL |
| HVAC 3 TON | 1 | EACH | 10.6 | 10.60 |
| WATER HEATER | 0 | EACH | 4.5 | 0.00 |
| LIGHTS | 700 | SQ FT | 0.0035 | 3.06 |
| RECEPTACLES | 6 | EACH | 0.18 | 1.08 |
| EXHAUST FANS | 0 | EACH | 0.4 | 0.00 |
| DEDICATED CIRCUITS | 0 | EACH | 1.9 | 0.00 |
| | | TOTAL = | | 14.74 |
| | | TOTAL = | 61.4 | AMPS |

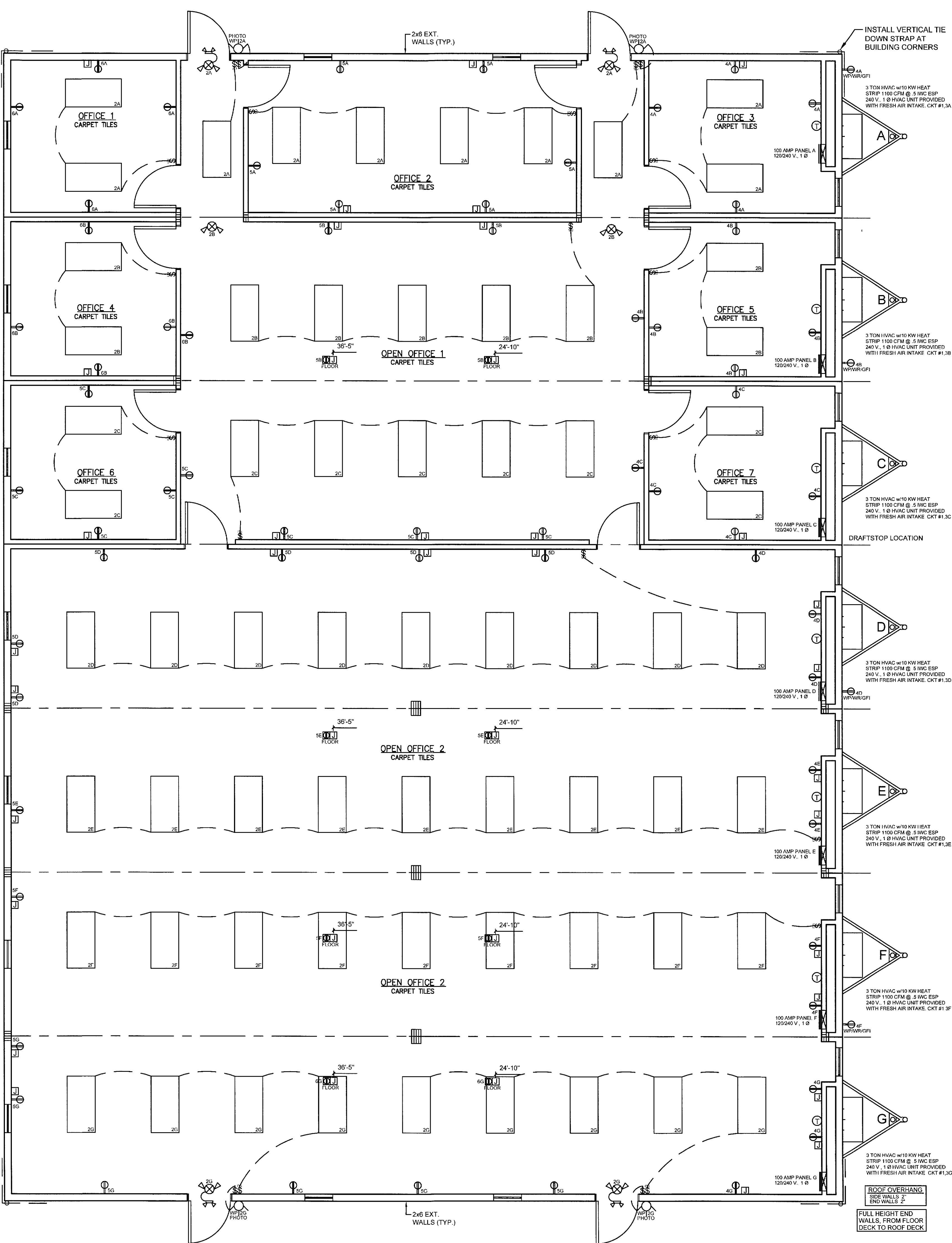
| ELECTRICAL PANEL SCHEDULE F | | | | |
|-----------------------------|-------------|---------------|-----------|--|
| CIRCUIT ID | DESCRIPTION | BREAKER | WIRE | |
| 1,3 F | HVAC 3 TON | 60A (2P) HACR | 6-6-10 MC | |
| 2 F | LIGHTS | 20A | 12 | |
| 4, 5 F | RECEPTACLES | 20A | 12 | |

| ELECTRICAL SIZING | 120/240V | SGL PHASE | INSTALL | 100 AMP PANEL |
|--------------------|----------|-----------|---------|---------------|
| PANEL G | | | | |
| ID | QTY | UNITS | KW | SUB-TOTAL |
| HVAC 3 TON | 1 | EACH | 10.6 | 10.60 |
| WATER HEATER | 0 | EACH | 4.5 | 0.00 |
| LIGHTS | 700 | SQ FT | 0.0035 | 3.06 |
| RECEPTACLES | 11 | EACH | 0.18 | 1.98 |
| EXHAUST FANS | 0 | EACH | 0.4 | 0.00 |
| DEDICATED CIRCUITS | 0 | EACH | 1.9 | 0.00 |
| | | TOTAL = | | 15.64 |
| | | TOTAL = | 65.2 | AMPS |

| ELECTRICAL PANEL SCHEDULE G | | | | |
|-----------------------------|-------------|---------------|-----------|--|
| CIRCUIT ID | DESCRIPTION | BREAKER | WIRE | |
| 1,3 G | HVAC 3 TON | 60A (2P) HACR | 6-6-10 MC | |
| 2 G | LIGHTS | 20A | 12 | |
| 4 - 6 G | RECEPTACLES | 20A | 12 | |

MC CABLE IN CEILING,
NM CABLE REMAINDER

ROOF OVERHANG
SIDE WALLS 2"
END WALLS 2"
FULL HEIGHT END
WALLS, FROM FLOOR
DECK TO ROOF DECK



SYMBOL LEGEND

- \$/ \$ WALL MOUNT LIGHT SWITCH
- \$/ \$ SGL POLE / OCCUPANCY SENSOR SWITCH
- J BOX IN WALL OR FLOOR (NON POWERED)
- 120 V DUPLEX RECEPTACLE IN FLOOR
- 120 V DUPLEX RECEPTACLE
- RECESSED FLUORESCENT LIGHT FIXTURE W/ 2-25W BULBS
- 24"x24" RETURN AIR CEILING REGISTER
- 24"x24" SUPPLY AIR CEILING REGISTER
- FLUSH MOUNT 120 / 240 V 1 Ø ELECTRICAL PANEL
- WALL MT 7-DAY PROGRAMMABLE THERMOSTAT
- EXTERIOR REMOTE HEAD EMERGENCY LIGHT
- CEILING MT COMBO LIGHTED EXIT SIGN / EMERGENCY LIGHT 90 MINUTE CAPACITY
- 60 W EXTERIOR PORCH LIGHT W/ PHOTO CELL, WEATHER PROOF

RADCO APPROVED
Jan 08, 2021

RESOURCES, APPLICATIONS, DESIGN & CONTROLS, INC.
EASTERN NATIONAL REGION
5801 BENJAMIN CENTER DRIVE, SUITE 102
TAMPA, FL 33634
(813) 243-0370 • (813) 243-1311 • F
www.radcoinc.com

RADCO
YOUR VISION • OUR MISSION™

THIRD PARTY DESIGN APPROVAL & INSPECTION AGENCY

COMMONWEALTH OF VIRGINIA
JAMES ALLEN CHAPMAN
Lic. No. 0402057598
1-8-21
PROFESSIONAL ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 044898
JAMES ALLEN CHAPMAN
ENGINEER
STATE OF MARYLAND
JAMES ALLEN CHAPMAN
No. 50207
PROFESSIONAL ENGINEER
1-8-21

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. 50207, EXPIRATION DATE: 11-30-2022.

ELECTRICAL PLAN

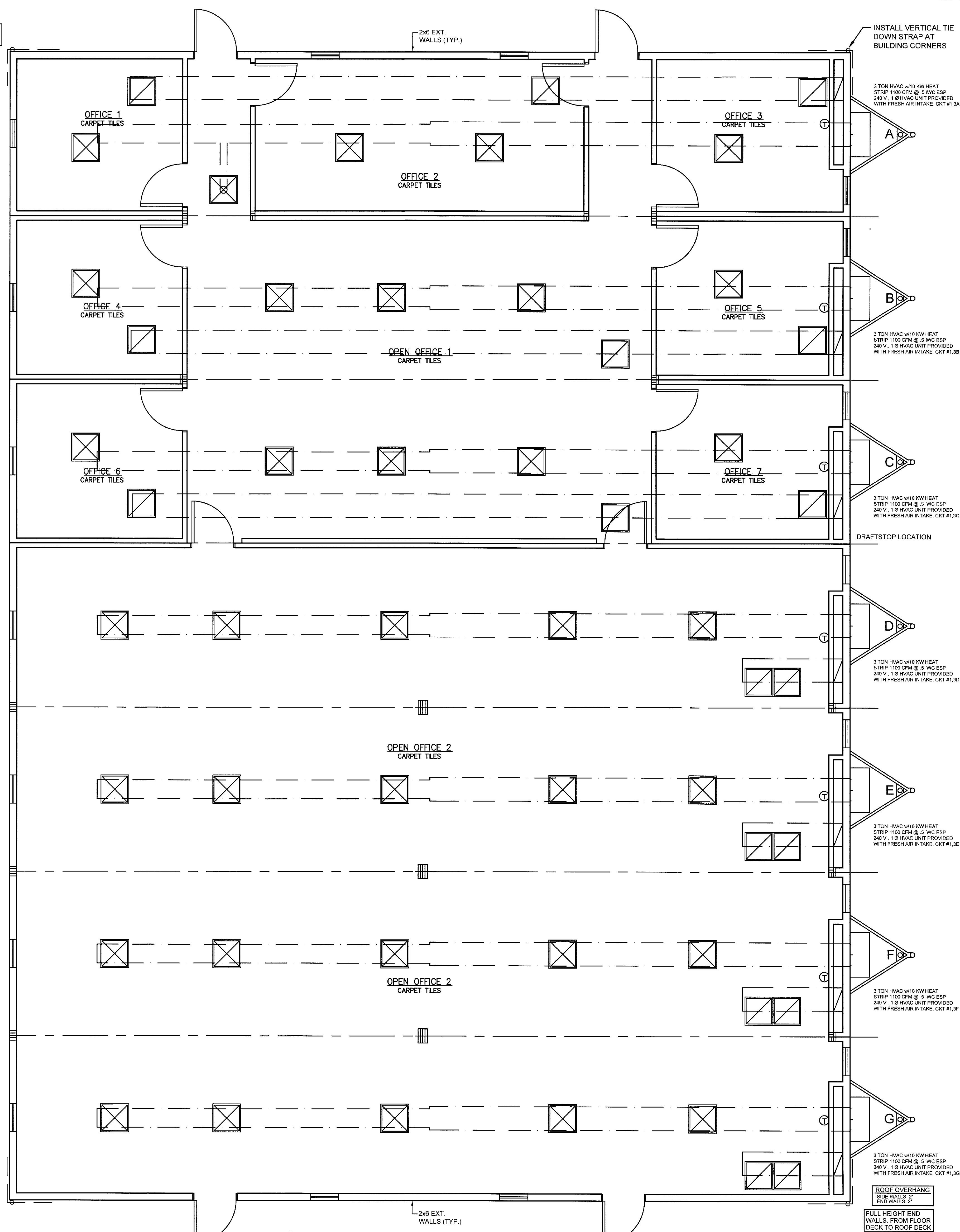
3" = 1'-0"

TITAN MODULAR
SYSTEMS, INC.

162 INDUSTRIAL DRIVE * ALMA, GA 31510
912-632-3344 (PH) * 912-632-3345 (FX)

| | |
|-----------------------------------|--------------------------------------|
| DATE: 12-31-20 | ENGINEERS: JAMES ALLEN CHAPMAN, P.E. |
| SCALE: AS NOTED | AMERICUS, GA 31719 |
| CODES: MD, NC, VA | |
| TMS-5886 A-G - 84'x60' - BUSINESS | |
| ELECTRICAL | PAGE: 4 / 8 |

ROOF OVERHANG
SIDE WALLS 2"
END WALLS 2"
FULL HEIGHT END
WALLS, FROM FLOOR
DECK TO ROOF DECK



SYMBOL LEGEND

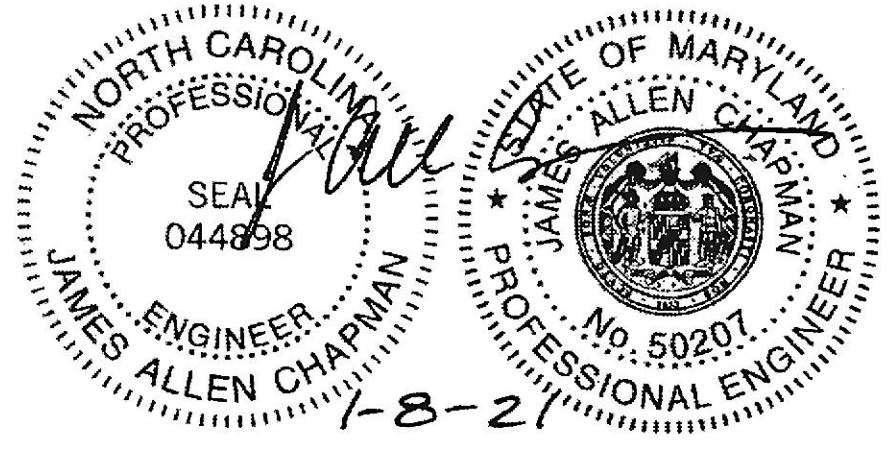
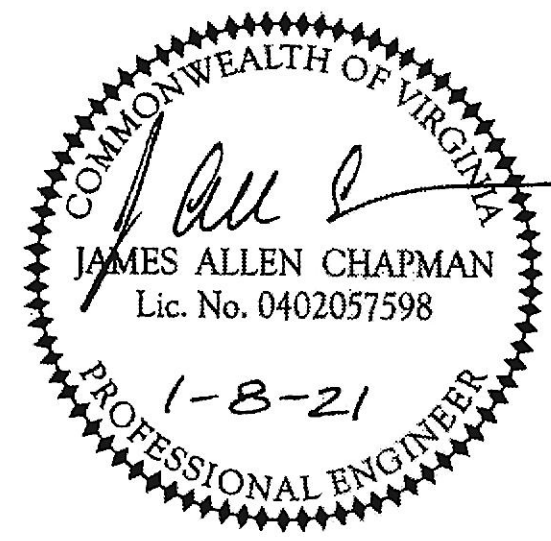
- \$/ \$ WALL MOUNT LIGHT SWITCH
SGL POLE / OCCUPANCY SENSOR SWITCH
J-BOX IN WALL OR FLOOR (NON POWERED)
120 V DUPLEX RECEPTACLE IN FLOOR
120 V DUPLEX RECEPTACLE
- RECESSED FLUORESCENT LIGHT
FIXTURE W/ 2-25W BULBS
- 24"x24" RETURN AIR CEILING REGISTER
24"x24" SUPPLY AIR CEILING REGISTER
- FLUSH MOUNT 120 / 240 V 1 Ø
ELECTRICAL PANEL
- WALL MT 7-DAY PROGRAMMABLE
THERMOSTAT
- EXTERIOR REMOTE HEAD EMERGENCY
LIGHT
- CEILING MT COMBO LIGHTED EXIT SIGN /
EMERGENCY LIGHT 90 MINUTE CAPACITY
- 60 W EXTERIOR PORCH LIGHT W/
PHOTO CELL, WEATHER PROOF

RADCO APPROVED

Jan 08, 2021
RESOURCES, APPLICATIONS, DESIGN & CONTROLS, INC.
EASTERN NATIONAL REGION
5801 BENJAMIN CENTER DRIVE, SUITE 102
TAMPA, FL 33634
(813) 243-0370 • (813) 243-1314 • F
www.radcoinc.com



THIRD PARTY DESIGN APPROVAL & INSPECTION AGENCY



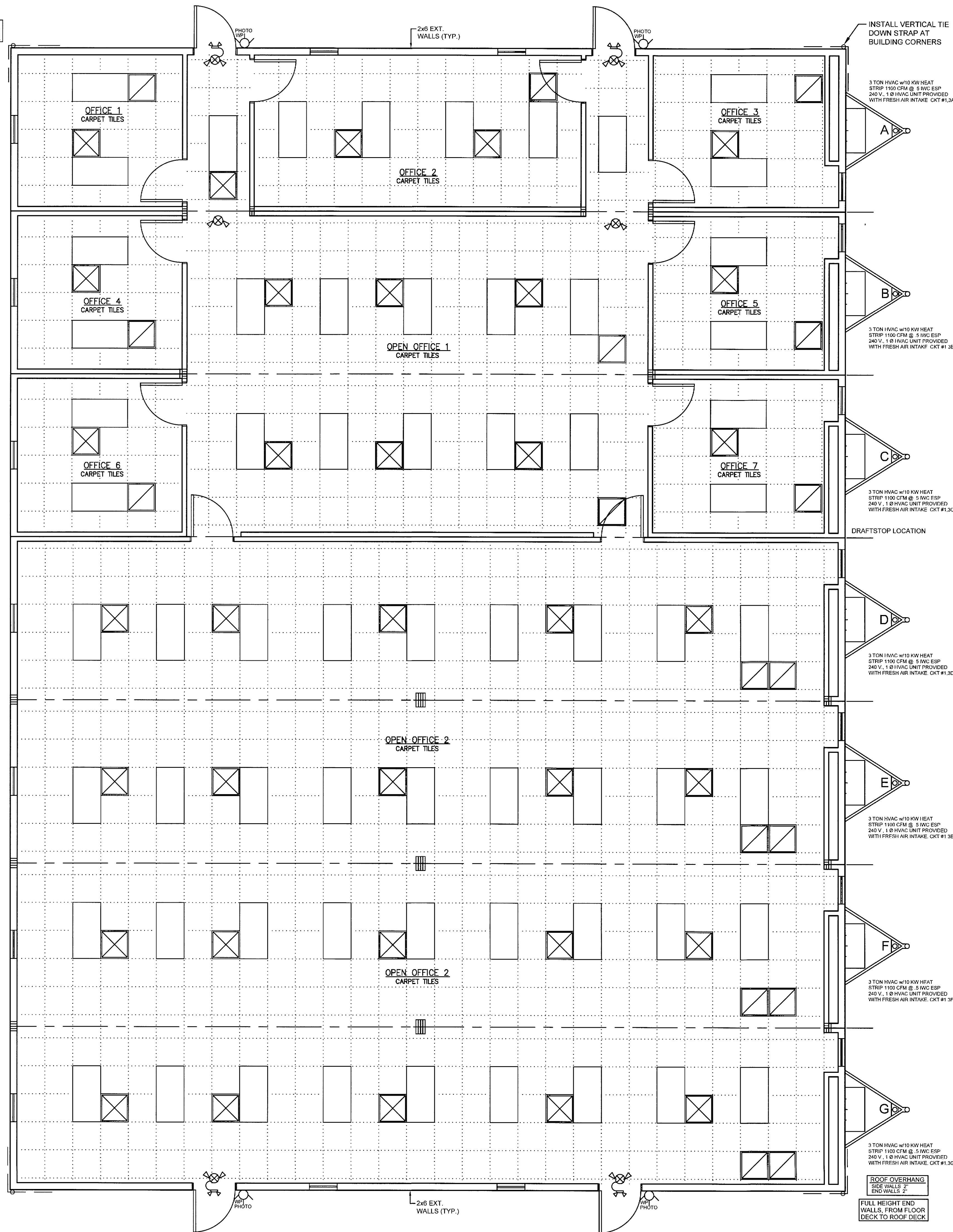
PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY
THAT THESE DOCUMENTS WERE PREPARED OR
APPROVED BY ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE
STATE OF MARYLAND, LICENSE NO. 50207,
EXPIRATION DATE: 11-30-2022.

TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE * ALMA, GA 31510
912-632-3344 (PH) * 912-632-3345 (FX)

| | | | |
|-----------------------------------|------------|------------|------------------------------|
| DATE: | 12-31-20 | ENGINEERS: | JAMES ALLEN CHAPMAN, P.E. |
| SCALE: | N-T-S | | AMERICUS, GA 31719 |
| CODES: | MD, NC, VA | | |
| TMS-5886 A-G - 84'x60' - BUSINESS | | | |
| MECHANICAL | | PAGE: | 5 / 8 |

ROOF OVERHANG
SIDE WALLS 2"
END WALLS 2"
FULL HEIGHT END
WALLS, FROM FLOOR
DECK TO ROOF DECK



SYMBOL LEGEND

- \$/\$ WALL MOUNT LIGHT SWITCH
J SGL POLE / OCCUPANCY SENSOR SWITCH
J BOX IN WALL OR FLOOR (NON POWERED)
120 V DUPLEX RECEPTACLE IN FLOOR
120 V DUPLEX RECEPTACLE
- RECESSED FLUORESCENT LIGHT
FIXTURE W/ 2-25W BULBS
- 24"x24" RETURN AIR CEILING REGISTER
24"x24" SUPPLY AIR CEILING REGISTER
- FLUSH MOUNT 120 / 240 V 1 Ø
ELECTRICAL PANEL
- WALL MT 7-DAY PROGRAMMABLE
THERMOSTAT
- EXTERIOR REMOTE HEAD EMERGENCY
LIGHT
- CEILING MT COMBO LIGHTED EXIT SIGN /
EMERGENCY LIGHT 90 MINUTE CAPACITY
- 60 W EXTERIOR PORCH LIGHT W/
PHOTO CELL, WEATHER PROOF

RADCO APPROVED

Jan 08, 2021

RESOURCES, APPLICATIONS, DESIGN & CONTROLS, INC.

EASTERN NATIONAL REGION

5801 BENJAMIN CENTER DRIVE, SUITE 102

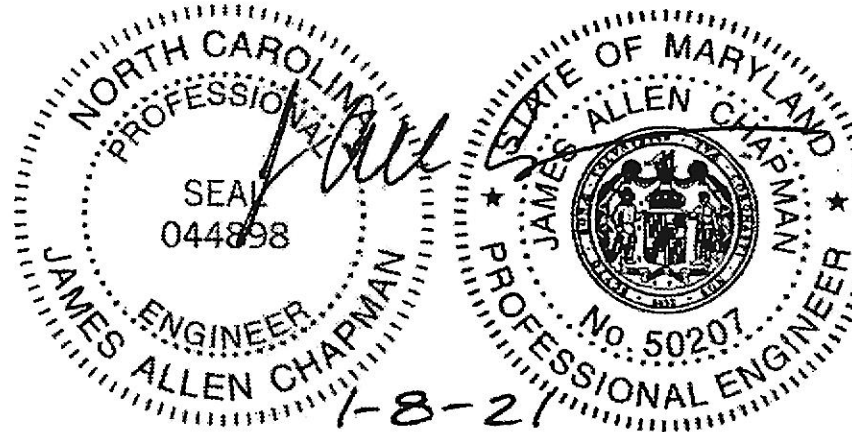
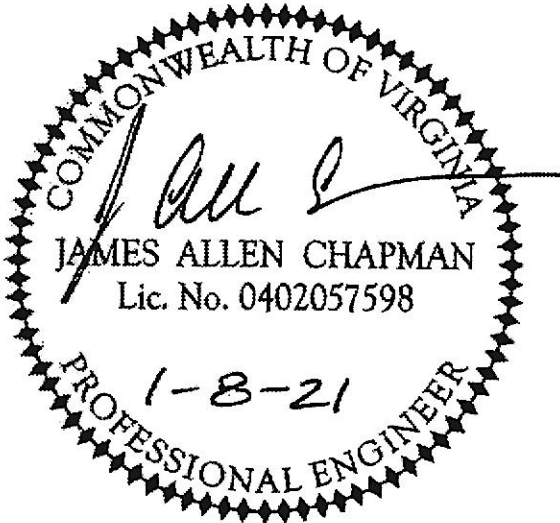
TAMPA, FL 33634

(813) 243-0370 - O | (813) 243-1314 - F

www.radcoinc.com



THIRD PARTY DESIGN APPROVAL & INSPECTION AGENCY



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. 50207,
EXPIRATION DATE: 11-30-2022.

TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE * ALMA, GA 31510
912-632-3344 (PH) * 912-632-3345 (FX)

DATE: 12-31-20 ENGINEERS: JAMES
ALLEN CHAPMAN, P.E.
SCALE: N-T-S AMERICUS, GA 31719

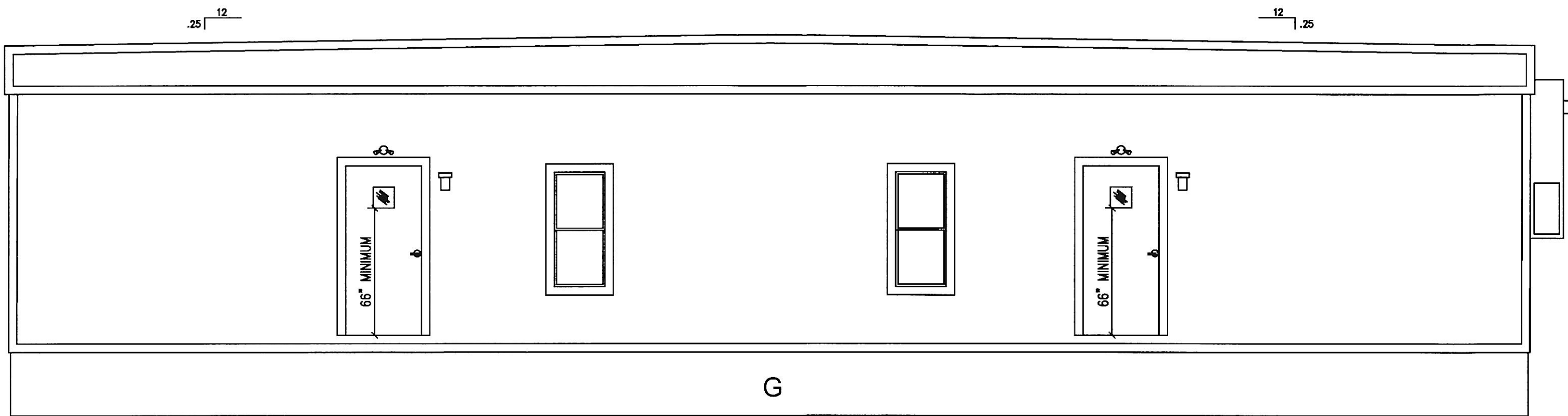
CODES: MD, NC, VA

TMS-5886 A-G - 84'x60' - BUSINESS

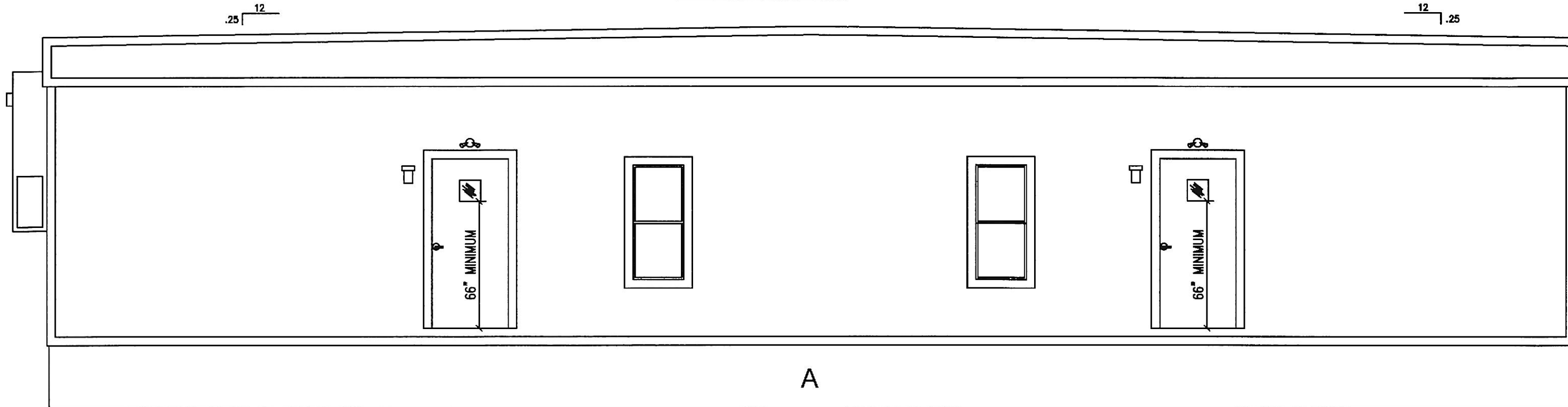
REFLECTED CEILING PAGE: 6 / 8

REFLECTED CEILING PLAN

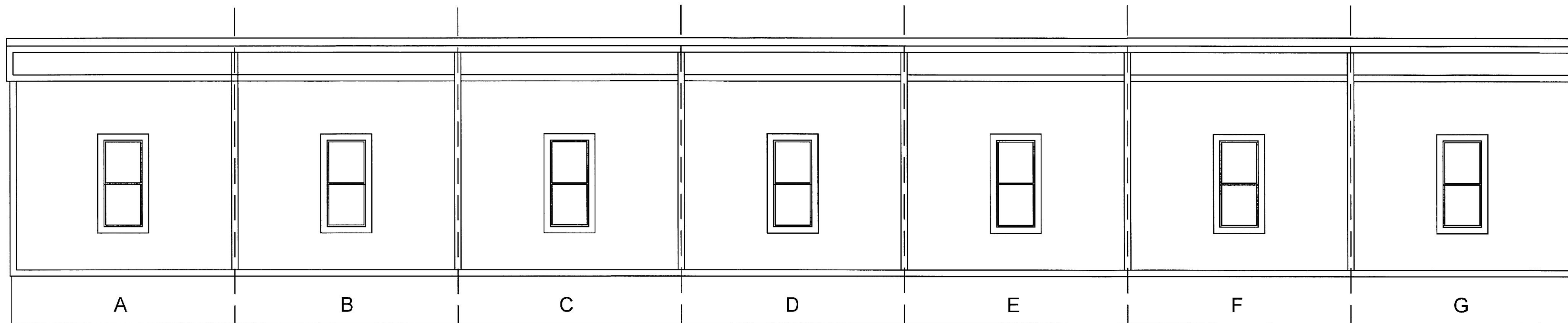
$\frac{3}{16}" = 1'-0"$



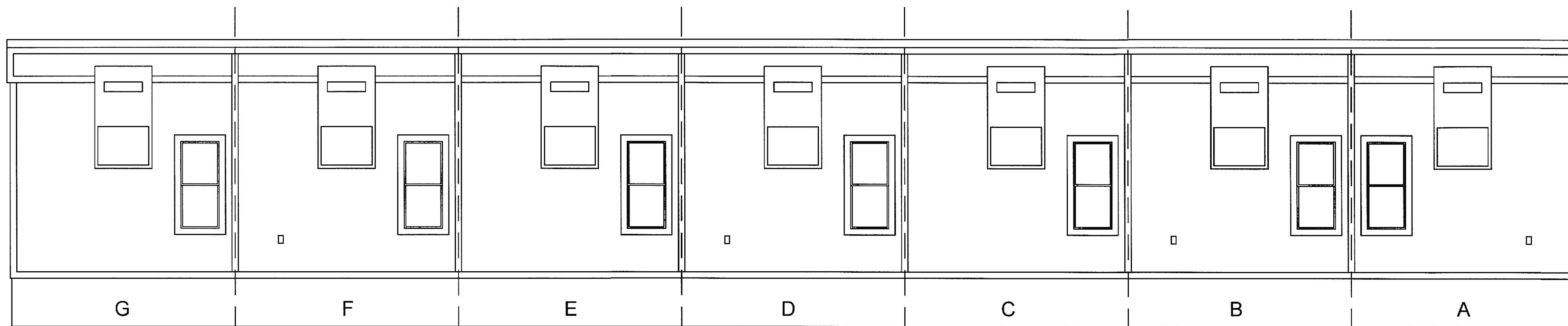
FRONT ELEVATION



REAR ELEVATION



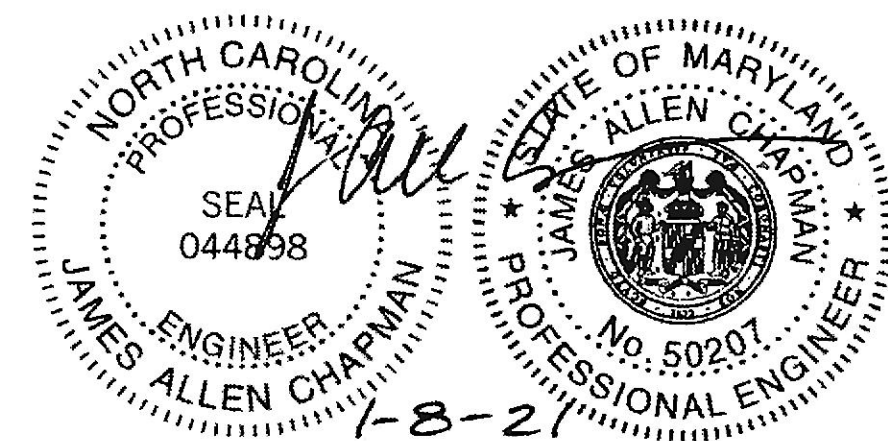
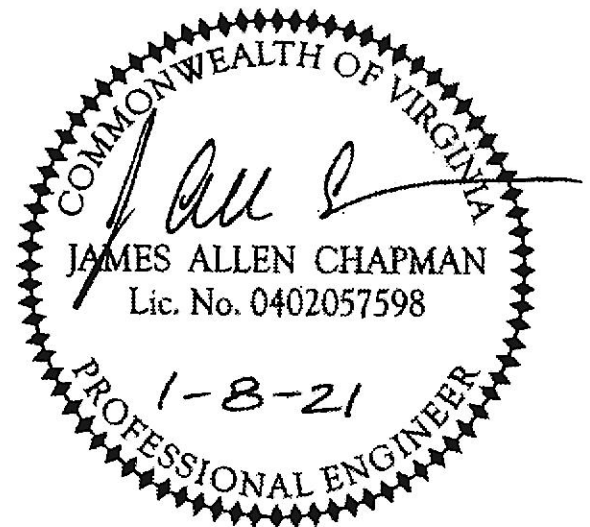
LEFT ELEVATION



RIGHT ELEVATION

ELEVATION NOTES:

1. 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.
2. SEE CROSS SECTION FOR METHOD OF ROOF VENTILATION.
3. ACCESSIBLE RAMP(S), STAIR(S) AND HANDRAILS ARE SITE INSTALLED , DESIGNED BY OTHERS, AND SUBJECT TO 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 MARYLAND, LICENSE NO. 50207, EXPIRATION DATE: 11-30-2022.

| TITAN MODULAR SYSTEMS, INC. | |
|--|---|
| 162 INDUSTRIAL DRIVE * ALMA, GA 31510 912-632-3344 (PH) * 912-632-3345 (FX) | |
| DATE: 12-31-20 | ENGINEERS: JAMES ALLEN CHAPMAN, P.E. AMERICUS, GA 31719 |
| SCALE: AS NOTED | |
| CODES: MD, NC, VA | |
| TMS-5886 A-G - 84'x60' - BUSINESS | |
| ELEVATIONS | PAGE: 7 / 8 |

NO ATTIC VENTILATION IS REQUIRED

INSTALL 2X4 SYP#3 MIN. RAIL, W/ PLYWOOD FILLERS IF NEEDED, EACH SIDE, AT ROOF PEAK FASTENED TO EACH JOIST/TRUSS W/ (2) 16d NAILS WITH 2" MIN. PENETRATION INTO TRUSS, OR EQUAL, WHERE ROOF RIDGE BEAM DOES NOT EXTEND TO TOP OF ROOF. TAPER RAIL WHEN SPACE IS LESS THAN 3.5" ABOVE BEAM. ALSO INSTALL RAIL AT BOTTOM OF JOIST/TRUSSES OVER MARRIAGE WALL WHERE RIDGEBEAM IS NOT REQUIRED. (TYP)

2X4 SYP#2 MINMUM TOP RAIL FASTENED WITH (4) 15 GA. X 7/16" X 2-1/2" STAPLES INTO EACH JOIST. SPLICE PER DETAIL AT RIGHT.

EXTERIOR FINISH OVER STRUCTURAL BRACING-SEE EXT. WALL BRACING SPECS

2X6 SYP#2 MINIMUM BOTTOM RAIL FASTENED WITH (12) 15 GA. X 7/16" X 2-1/2" STAPLES INTO EACH VERTICAL.

FASTEN RIDGE BEAM TO EACH TRUSS WITH MINIMUM (12) 15 GA X 2 1/2" STAPLES WITH 1" PENETRATION INTO TRUSS OR EQUIVALENT FASTENING.

SITE INSTALL 3/8" LAG SCREWS STAGGERED FROM SIDE TO SIDE @ 16" O.C. MAX. LAG SCREWS SHALL PENETRATE 1.75" MIN. INTO ADJACENT RIDGE BEAM ALTERNATE INSTALLATION: LAGS MAY BE INSTALLED FROM THE INTERIOR OF ATTIC SPACE

45 MIL BLACK EPDM ROOF COVERING SEE ROOF SHEATHING DETAIL
LISTED TRUSS AT 24" O.C. UFP TRUSS# F0350656
ALTERNATE:
LISTED TRUSS AT 16" O.C. UFP TRUSS# F0659601
LIVE LOAD 30 PSF TOP CHORD
DEAD LOAD 15 PSF TOP CHORD

R-49 INSULATION UNFACED SUPPORTED W/ NETTING

26 GA. x 1-1/2" STEEL STRAP FROM RAIL TO EACH WALL STUD FASTENED W/ (7) 15 GA. x 1-1/8" STAPLES PER STRAP END (TYPICAL SIDEWALLS).

EXTERIOR WALL STUDS 2x6 SYP#2 AT 16" O.C.
EXTERIOR WALL FINISH
EXTERIOR WALL STRUCTURAL BRACING SIDEWALLS:

BRACING INSTALLATION:
STRUCTURAL SHEATHING SHALL CONSIST OF A 4 FOOT MINIMUM WIDTH SHEET EXTENDING CONTINUOUSLY FROM TOP TO BOTTOM PLATE WITH ALL SHEATHING EDGES EXTENDING 3/4" MINIMUM OVER 2" NOMINAL LUMBER OF THE SAME SIZE AND GRADE AS EXTERIOR WALL FRAMING. BRACING SHALL BE FULL WRAP

BRACING MATERIAL:
7/16" OSB APA RATED SHEATHING EXP. 1, FASTENED WITH 8d COMMON OR GALV. BOX NAILS 3" O.C. EDGES AND 12" O.C. IN THE FIELD.

ENDWALLS:

BRACING INSTALLATION:
STRUCTURAL SHEATHING SHALL EXTEND CONTINUOUS FROM TOP OF TRUSS TOP CHORD TO 3/4" MINIMUM BELOW TOP OF RIM JOIST WITH ALL SHEATHING EDGES SUPPORTED BY 2" NOMINAL LUMBER OF THE SAME SIZE AND GRADE AS EXTERIOR WALL FRAMING.

BRACING MATERIAL:
7/16" OSB APA RATED SHEATHING EXP. 1, FASTENED WITH 8d COMMON OR GALV. BOX NAILS 3" O.C. EDGES AND 12" O.C. IN THE FIELD.

RIM RAIL 2x8 SYP#2

FLOOR JOIST 2x8 SYP#2 AT 16" O.C.

DOUBLE TOP PLATE 2x6 SYP#3

SEE MECHANICAL NOTES AND FLOOR PLAN FOR CEILING DUCT SPECIFICATIONS.

26 GA. x 1 1/2" STEEL STRAP FROM RIDGE BEAM OR RAIL TO EACH WALL STUD (16" O.C.) FASTENED W/ (7) 15 GA. x 1 1/8" STAPLES PER STRAP END

MATE LINE WALL STUDS 2x4 SYP#2 @ 16" O.C.

INTERIOR WALL FINISH

26 GA. x 1 1/2" STEEL STRAP FROM RIM JOIST TO EACH WALL STUD (16" O.C.) FASTENED W/ (7) 15 GA. x 1 1/8" STAPLES PER STRAP END

BOTTOM PLATE 2x4 SYP#3

DBL 2"x8" RIM RAILS AT MATLINE

R-19 INSULATION UN-FACED

R-30 INSULATION UN-FACED (R-25 EFFECTIVE)

I-BEAM-M12x10

SITE INSTALLED 3/8" LAG SCREWS STAGGERED FROM SIDE TO SIDE AT 48" O.C. MAX. LAG SCREWS MUST PENETRATE 1" MINIMUM INTO ADJACENT MODULE RIM JOIST (TYPICAL AT ALL MARRIAGE LINES)

4" SOLID CONCRETE CAP BLOCK (TYPICAL)

TYPICAL I-BEAM PIER

TYPICAL WINDOW SEE FLOOR PLAN FOR SPECIFICATIONS

MATELINE RIDGE BEAM, SEE NOTES BELOW FOR CONSTRUCTION
DBL TOP PLATE 2X4 SYP#3

9'-0" CEILING HEIGHT
9'-6" WALL HEIGHT

MODULE

47 3/4"

95 1/2"

48" TYP.

T & G JOINT (TYP.)

CRIPPLE STUDS 2x6 SYP#2 @ 16" O.C.

2x HEADER PER APPROVED STRUCTURAL PACKAGE

SILL PLATE 2x6 SYP#2

CRIPPLE STUDS 2x6 SYP#2 AT 16" O.C.

3/4" TONGUE & GROOVE PLYWOOD STURD-I-FLOOR, EXP.-1, 24" O.C.

BOTTOM PLATE 2x6 SYP#3

26 GA. x 1-1/2" STEEL STRAP FROM RAIL TO EACH WALL STUD FASTENED W/ (7) 15 GA. x 1-1/8" STAPLES PER STRAP END (TYPICAL SIDEWALLS).

LAG CHASSIS TO FLOOR JOISTS PER APPROVED STRUCTURAL PACKAGE

OUTRIGGERS AND CROSSMEMBERS PER APPROVED STRUCTURAL PACKAGE

GENERAL CROSS SECTION NOTES:

- UNLESS OTHERWISE SPECIFIED, ALL STEEL SHALL COMPLY WITH ASTM A36, YIELD STRENGTH 36 KSI
- ALL LAG SCREWS SHALL COMPLY WITH ANSI/ASME B18.2.1. Fyb = 60 KSI MINIMUM
- SEE FOUNDATION 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 1/4" MINIMUM SPACE BETWEEN ALL STAPLES AND 3/4" 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.

RIDGE BEAM CONSTRUCTION

RIDGE BEAM CONSTRUCTION:
4 LAYERS 3/4" x 24" PLYWOOD, RATED SHEATHING, EXP.-1, 48/24 INDEX, (STRUCT.1 - 5 PLY / SLAYER)
EACH SIDE OF EACH MARRIAGE LINE CONTINUOUS OVER SPANS.

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 PDS 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.

INTERIOR FINISH MATERIALS:

CEILING: CLASS 'A' 2X2 SUSPENDED CEILING INSTALLED PER MANUFACTURER'S SPECIFICATIONS

WALL: 1/2" VINYL CLAD GYPSUM BOARD

INTERIOR FINISHES SHALL BE CLASS 'A' FOR EXITS & OTHER THAN EXITS SHALL BE 'A' OR 'B'.

FLOOR: CARPET TILES PER PLAN.

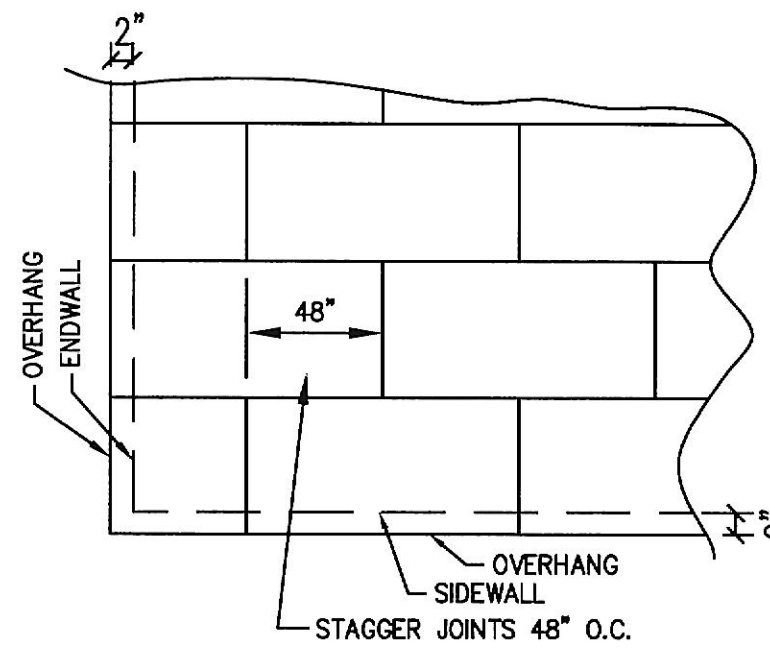
FLOOR FINISHES SHALL BE NO LESS THAN CLASS II LISTED PRODUCT

EXTERIOR FINISH MATERIALS:

ROOF: MULEHIDE 45 MIL (BLACK) EPDM FULLY ADHERED OVER

7/16" OSB DECKING W/ MULEHIDE FR ADHESIVE

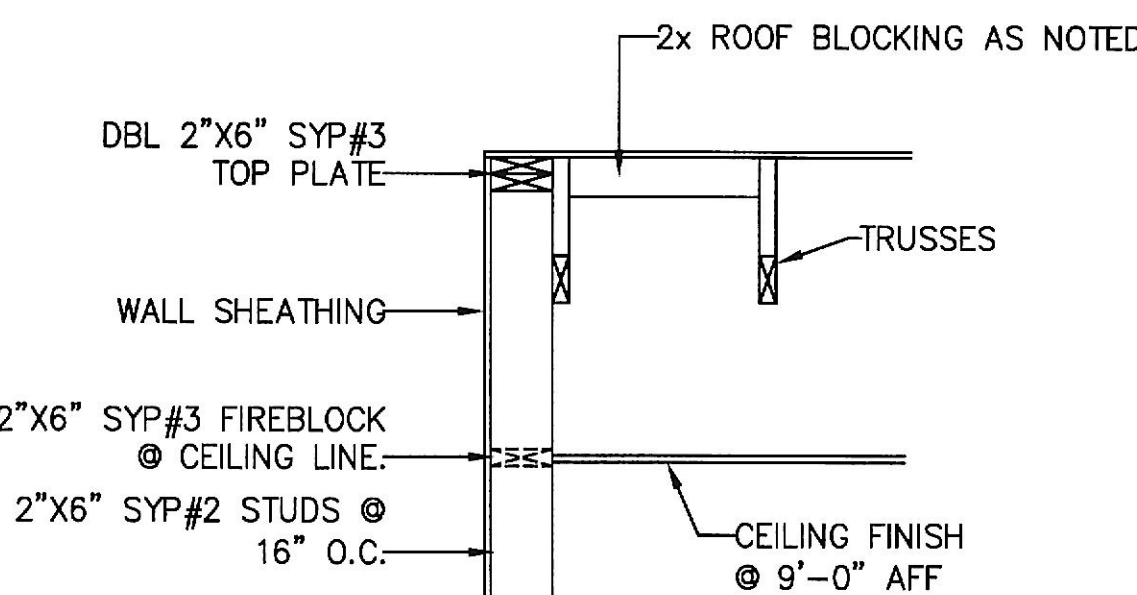
WALL: JAMES HARDIE SIERRA PANEL SIDING INSTALLED OVER HOUSE WRAP & 7/16" OSB STRUCTURAL SHEATHING.



7/16" OSB SHEATHING EXP. 1, 24/16 TO BE FASTENED TO JOISTS/ TRUSSES WITH 8d RING SHANK NAILS AT 6" O.C. ON EDGES AND 12" O.C. IN FIELD.

THE EPDM SHALL BE ADHERED TO STANDARD 7/16" OSB RATED SHEATHING, EXP. 1, 24/16 INDEX USING MULE-HIDE FR ADHESIVE, INSTALLED IN ACCORDANCE WITH INTERTEK CODE COMPLIANCE RESEARCH REPORT CRR-1080. THIS ASSEMBLY WILL PROVIDE A CLASS 'C' FIRE CLASSIFICATION.

ROOF SHEATHING DETAIL



END WALL FRAMING AT ROOF

RADCO APPROVED

Jan 08, 2021

RESOURCES, APPLICATIONS, DESIGN & CONTROLS, INC.

EASTERN NATIONAL REGION

5801 BENJAMIN CENTER DRIVE, SUITE 102

TAMPA, FL 33634

(813) 243-0370 - O | (813) 243-1314 - F

www.radcoinc.com



THIRD PARTY DESIGN APPROVAL & INSPECTION AGENCY

TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE * ALMA, GA 31510
912-632-3344 (PH) * 912-632-3345 (FAX)

| | | | |
|-----------------------------------|------------|------------|---------------------------|
| DATE: | 12-31-20 | ENGINEERS: | JAMES ALLEN CHAPMAN, P.E. |
| SCALE: | N-T-S | | AMERICUS, GA 31719 |
| CODES: | MD, NC, VA | | |
| TMS-5886 A-G - 84"x60" - BUSINESS | | | |
| CROSS SECTION | PAGE: | 8 / 8 | |

STATE OF MARYLAND PACKAGE REFERENCES:

FRAME I-BEAM DESIGN - C10.1

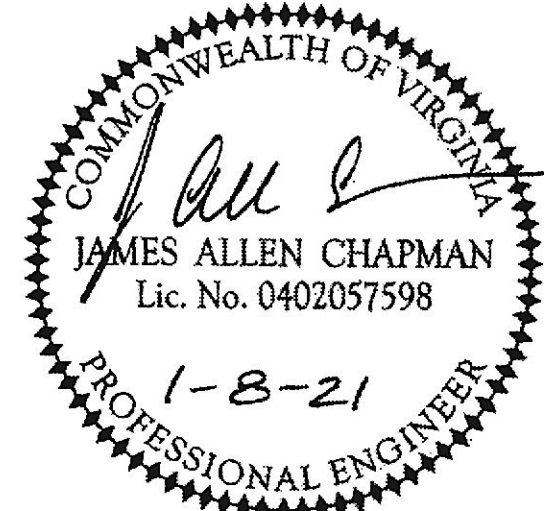
FLOOR SYSTEM DESIGN - C5.2

MATELINE COLUMNS - C27.5

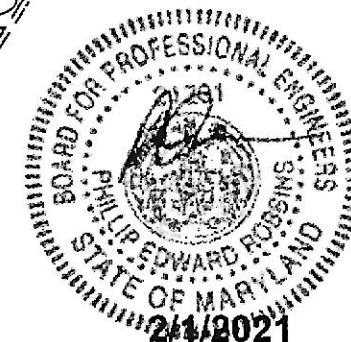
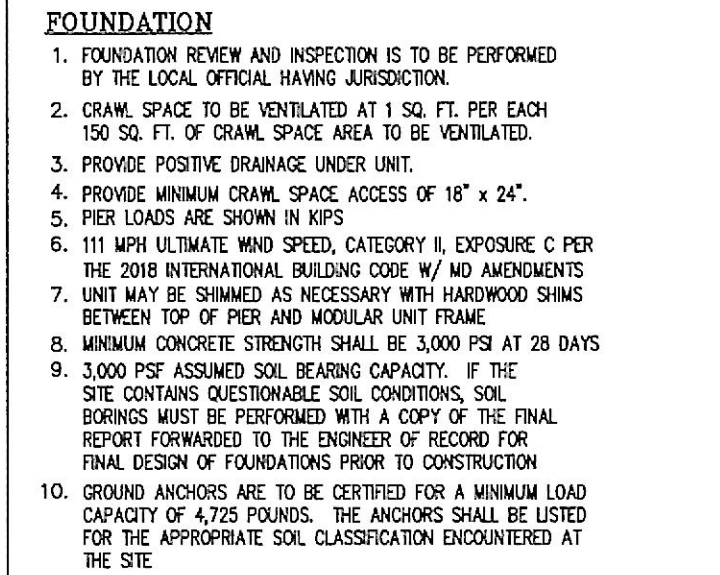
MATELINE PLYWOOD BEAMS - C29.2

OVERTURNING AND SLIDING - D24.6 -24.7

LONGITUDINAL TIE DOWN - D25.0

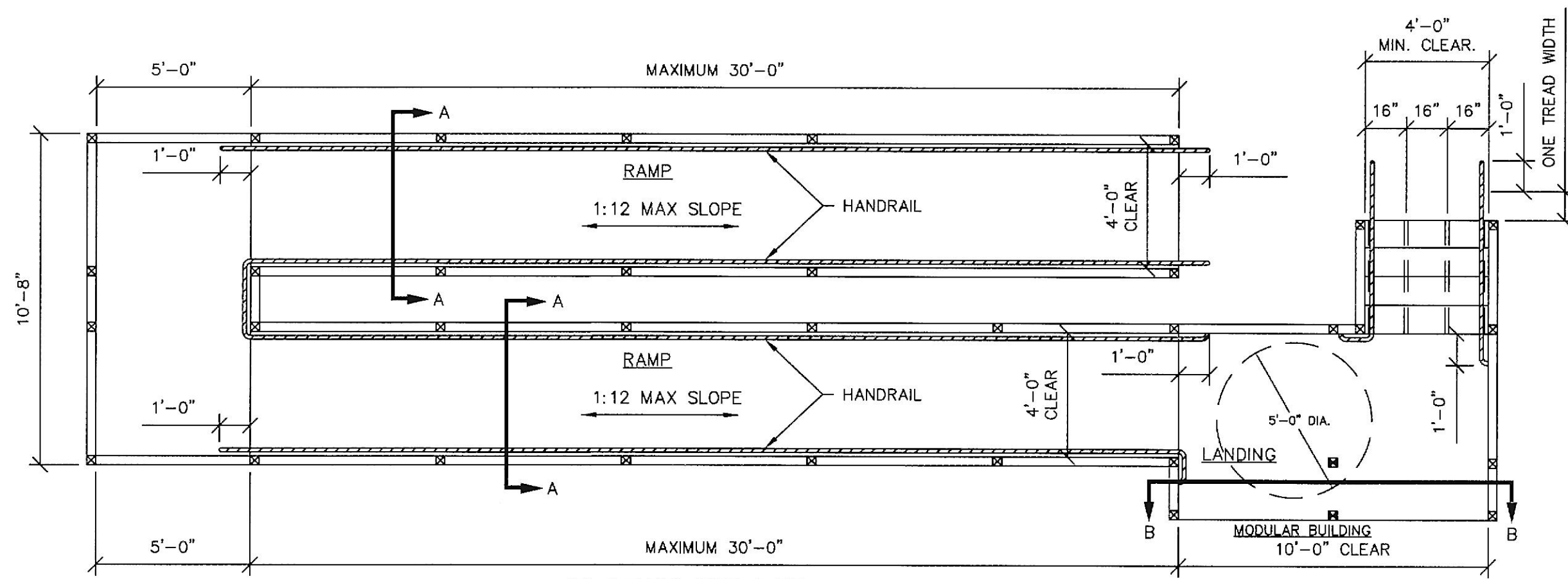


PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 50207, EXPIRATION DATE: 11-30-2022.



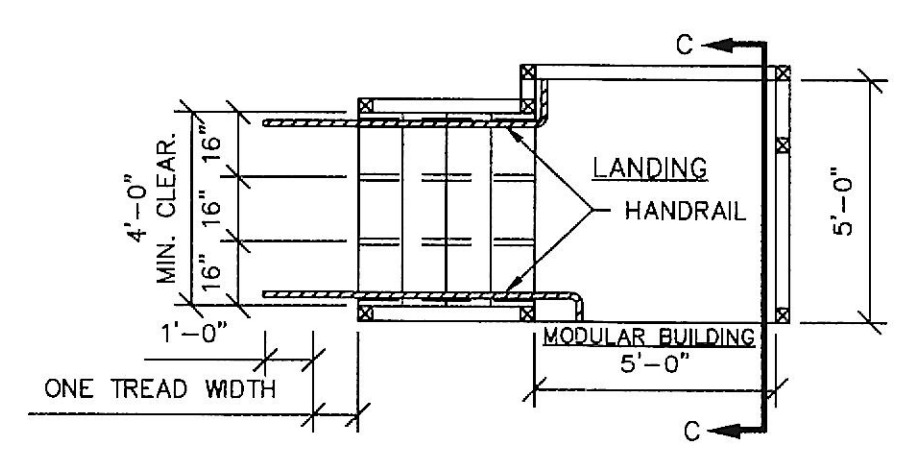
Job# PER210267
P.E. Robbins, P.E.
1777 State Route 167
Victoria IL 61485

SITE LOCATION:
950 ELKTON ROAD
ELKTON, MARYLAND 21921



RAMP PLAN

MAY BE CONSTRUCTED AS A MIRROR OR REVERSE IMAGE

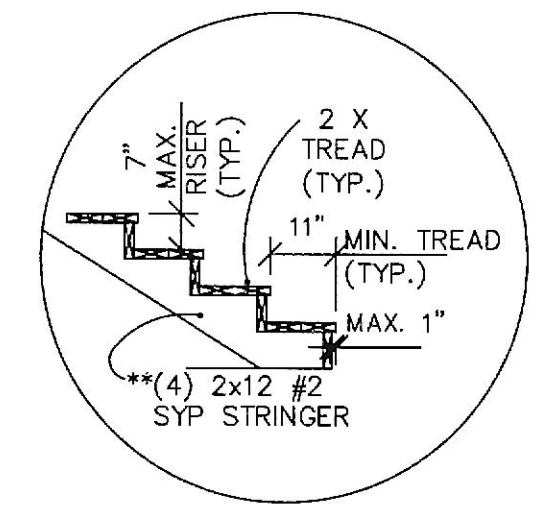


STAIR / LANDING PLAN

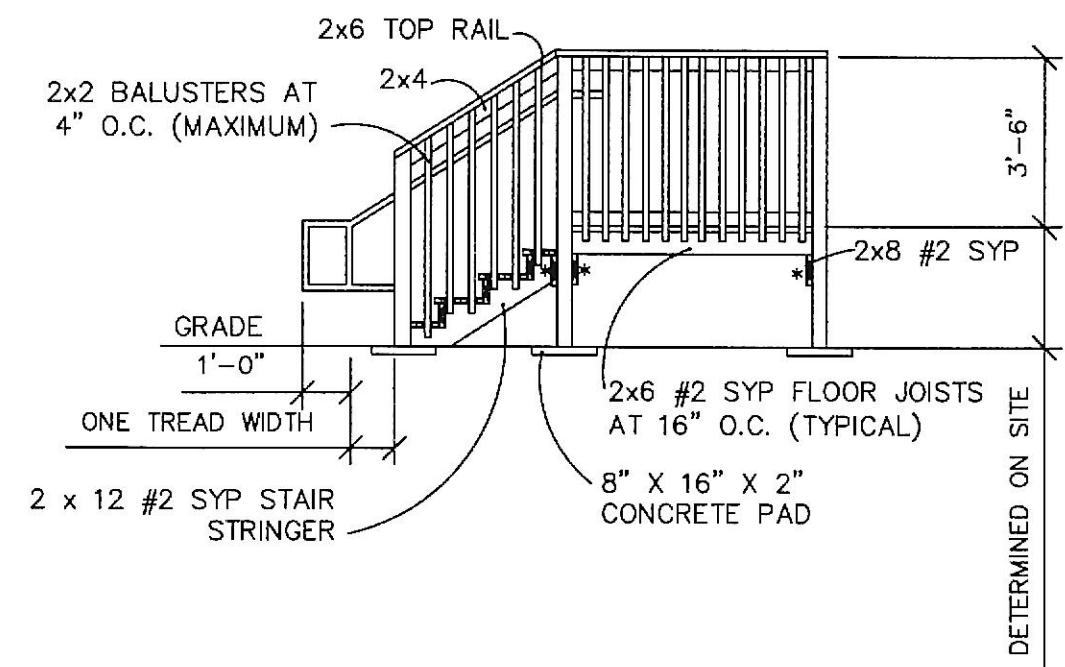
MAY BE CONSTRUCTED AS A MIRROR OR REVERSE IMAGE

DESIGN CODES:
2018 INTERNATIONAL BUILDING CODE
WITH MARYLAND AMENDMENTS

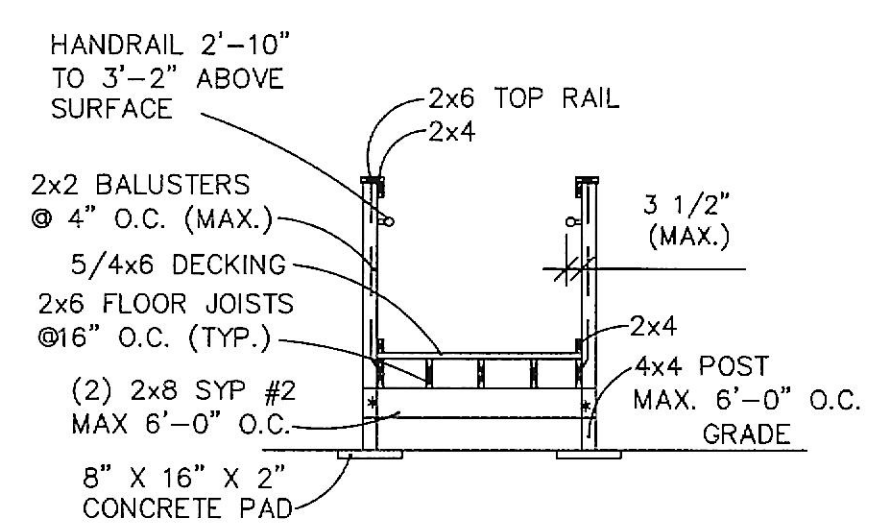
DESIGN LOADS:
DECKS: 100 PSF
RAMPS: 100 PSF
STEPS: 100 PSF



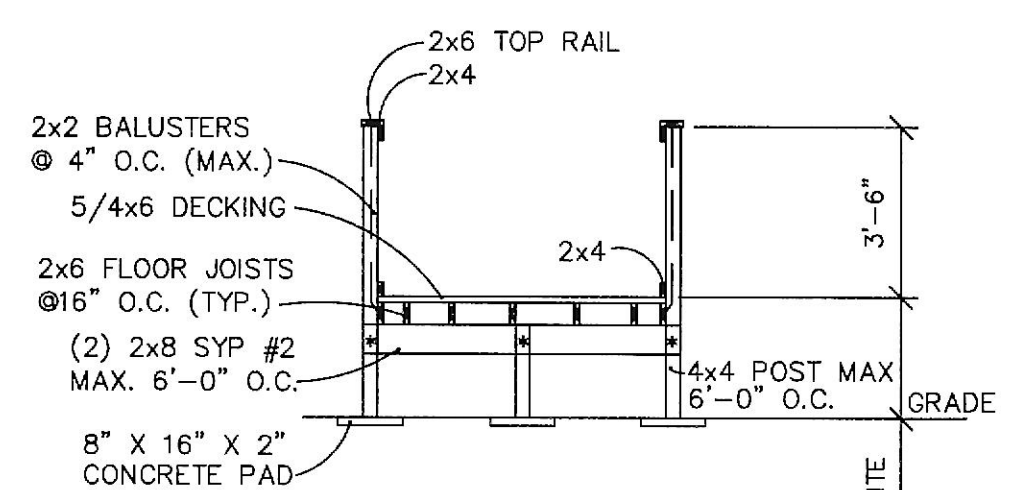
**SECURE OUTSIDE STRINGERS TO THE LEDGER WITH (1) ANGLE BRACKET (SIMPSON L90 OR EQUAL) AND SECURE CENTER STRINGER TO THE LEDGER WITH (2) ANGLE BRACKETS (SIMPSON L90 OR EQUAL)



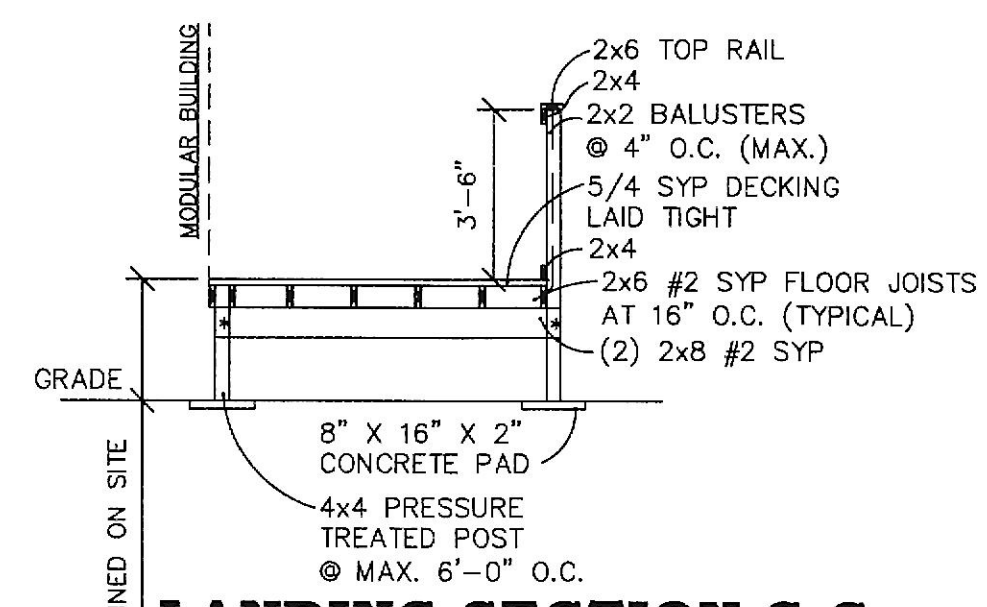
STAIR / LANDING ELEVATION



RAMP SECTION A-A



LANDING SECTION B-B



LANDING SECTION C-C

- NOTES:**
- ALL TREATED LUMBER AND GALVANIZED FASTENERS
 - NON-SLIP ABRASIVE SURFACE ON ALL TREADS AND RAMP BOARDS.
 - 30" MAX. RISE FOR RAMPS. LANDING IS REQUIRED FOR ANY RAMP THAT HAS A TOTAL RISE OF 30" OR MORE.

* SECURE 2 X 8 LEDGERS TO 4 X 4 POSTS WITH (2) 1/2" DIAMETER THRU BOLTS AT EACH LOCATION

- INDICATES 4 X 4 POST LOCATIONS TO UNDERSIDE OF TOP RAIL
- INDICATES 4 X 4 POST LOCATIONS TO UNDERSIDE OF DECKING

Professional Certification. I hereby certify these documents were prepared or approved by me, and that I am duly licensed professional engineer under the laws of the State of Maryland, License No. 21201, Expiration Date: 4-26-22



Job# PER210269
P.E. Robbins, P.E.
1777 State Route 167
Victoria IL 61485

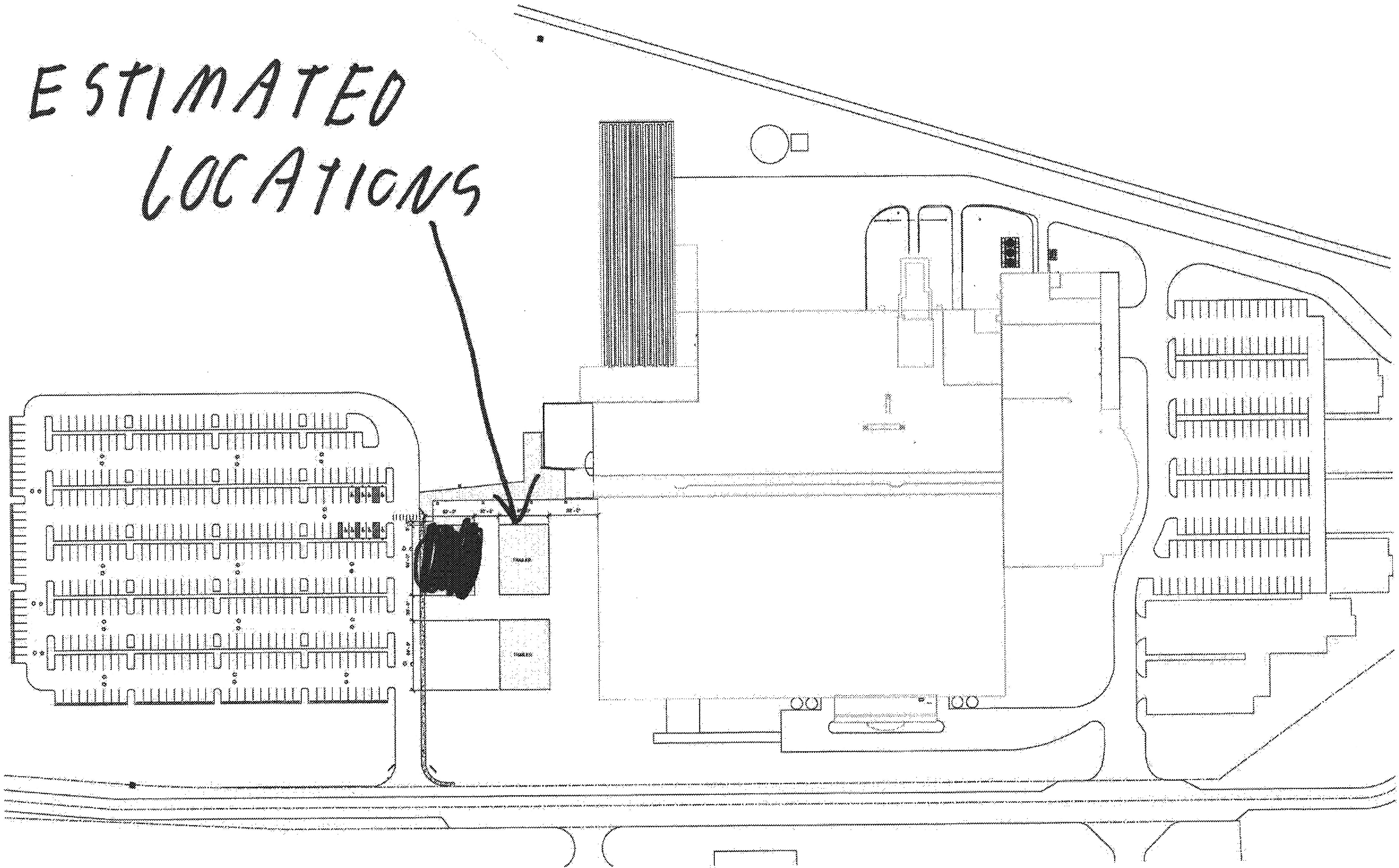
SERIAL NUMBERS:
5885 A-G, 5886 A-G

SITE LOCATION:
950 ELKTON ROAD
ELKTON, MARYLAND 21921

| | | | |
|--------------------------------|----------------|--------------------|-------------------|
| TITLE: DECK / RAMP / STEP PLAN | DRAWN BY: R.M. | JOB NO: 2021-013 | DATE: 2/1/2021 |
| | | | |
| MODEL: 8464 O/A OFFICE | REV: | DRAWING NO: 1 OF 1 | SCALE: 1/4"=1'-0" |
| | | | |

US MODULAR GROUP EAST, INC.
3102 MORNINGSIDES COURT, BALDWIN, MD 21013

ESTIMATED
LOCATIONS



ARCHITECTURAL SITE PLAN
SCALE: 1" = 40'-0"

ARCUS
DESIGN GROUP
ARCHITECTS, INC.

PROJECT
TERMINO
930 Elston Blvd.
Elkton, MD 21721

PROJECT NO: 1901102
SCALE: 1" = 40'-0"
DATE: 7-1-2019

DESIGNER: [blank]
CHECKED: [blank]
DATE: 7-1-2019

ASK-0.10
PHASE 1