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 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" 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 REQUIRMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND-BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE NCBC.
- 9. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
- 10. DESIGNED TO COMPLY WITH NC CLIMATE ZONE 3A.

!ATTENTION LOCAL INSPECTIONS DEPARTMENT ! SITE INSTALLED ITEMS:

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY THIRD PARTY 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 TIE DOWN SYSTEM.
- 2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING. 3. PORTABLE FIRE EXTINGUISHER(S).
- 4. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO
- THE BUILDING.
- 5. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS 6. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE
- MATELINE(S) (MULTI-UNITS ONLY).
- 7. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
- 8. FIRE INSPECTION
- 9. GLAZED OPENING PROTECTION (SEE GENERAL NOTE NO. 8) 10.BUILDING DRAINS, CLEANOUTS, HOOK-UPS TO PLUMBING SYSTEM, & DRINKING FOUNTAIN.

STRUCTURAL LOAD LIMITATIONS:

BUILDING RISK CATAGORY: II

- FLOOR DEAD AND LIVE LOAD:
- A. DEAD LOAD = 12 PSF (AVERAGE).
- B. UNIFORM LIVE LOAD = 50 PSF

C. CONCENTRATED LIVE LOAD = 2000 LB. OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR. NOTE: UNIFORM AND CONCENTRATED LIVE LOADS ARE NOT SIMULTANEOUSLY APPLIED.

ROOF DEAD AND LIVE LOAD: A. DEAD LOAD = 13 PSF (AVERAGE).

B. LIVE LOAD = 20 PSF.

ROOF SNOW LOAD:

- A. GROUND SNOW LOAD: Pg = 20 PSFB. FLAT-ROOF SNOW LOAD: Pf = 20 PSFCe = 1.0
- C. SNOW EXPOSURE FACTOR: D. SNOW IMPORTANCE FACTOR: Is = 1.0
- E. SNOW THERMAL FACTOR: Ct = 1.1
- WIND LOAD:
- A. WIND SPEED: Vult = 130 MPH
- Vasd = 100 MPH B. WIND SPEED:
- C. WIND EXPOSURE CATEGORY: С
- D. WIND IMPORTANCE FACTOR: Iw = 1.0E. INTERNAL PRESSURE COEFFICIENT: GCpi = 0.18
- F. PR
- 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 = -92.9 PSF (Pasd = -55.8 PSF)

ASCE 7-10

- ROOF ZONE 2: P = -61.7 PSF (Pasd = -37.0 PSF)
- ROOF ZONE 1: P = -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.
- SEISMIC LOAD:
- A. RISK CATEGORY IS II.
- B. SEISMIC IMPORTANCE FACTOR IS 1.0
- C. SEISMIC SITE CLASS IS D. D. SPECTRAL RESPONSE COEFFICIENTS:
- Ss = 0.19 S1 = 0.088
- Sds = 0.202 Sd1 = 0.14
- E. SEISMIC DESIGN CATEGORY IS C.
- F. SEISMIC FORCE RESISTING SYSTEM IS A15. G. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
- H. RESPONSE MODIFICATION FACTOR R = 6.5.
- I. SEISMIC RESPONSE COEFFICIENT Cs = 0.04
- J. DESIGN BASE SHEAR V = 1609 LBS
- FLOOD LOAD:

THE MODULAR BLDG UNITS ARE NOT DESIGNED TO BE SUBMERGED OR SUBJECT TO WAVE ACTION, IF INSTALLED IN A FLOOD PLAIN, THE MODULAR BUILDING UNITS MUST BE INSTALLED ABOVE THE MINIMUM BASED FLOOD ELEVATION DERIVED FROM APPROPRIATE FLOOD ELEVATION MAPS FOR THE BUILDING SITE OR SET ON A FOUNDATION DESIGNED TO FLOOD LEVELS.

- 1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC). 2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE
- MOUNTED OR RECESSED. 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 WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- 4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A 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 WITH ARTICLES 110.9 & 110.10 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT. 6. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE
- INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
- 7. ALL CIRCUITS CROSSING OVER MODULE 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. 15 & 20 AMP EXTERIOR RECEPTS
- SHALL BE LISTED AS WEATHER RESISTANT. 9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A
- PHOTOCELL OR TIMER.

SPECIAL CONDITIONS & REQUIREMENTS:

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

NC 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.
- 2. BUILDING TIE DOWN AND ANCHORAGE REQUIREMENTS ARE AS INDICATED ON FOUNDATION PLAN.
- 3. ELECTRICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.2, E2.0, E2.1, E2.2, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- 4. MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.0, E2.4, E2.5 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- 5. PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.1, E1.2, E2.3, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- 6. FIRE BLOCKING SHALL BE PROVIDED PER SECTION 718.2 AND 1406.2.3 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.

CODE SUMMARY:						
STATE:	BUILDING:	ELECTRICAL:	MECHANICAL:	PLUMBING:	ACCESSIBILITY:	ENERGY:
NORTH CAROLINA	2018 NCBC 2018 NCFPC	2020 NC ELEC. CODE	2018 NCMC	2018 NCPC	NCBC 2018 CH. 11 AND ICC/ANSI A117.1 – 2009	2018 NC ENERGY CODE

ELECTRICAL NOTES:

MECHANICAL NOTES:

- 1. ALL SUPPLY AIR REGISTERS SHALL BE 10 INCHES x 10 INCHES ADJUSTABLE WITH 8 INCHES x 18 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL
- HAVE R-6 MINIMUM INSULATION EXCEPT DUCTS EXPOSED TO VENTILATED ATTICS AND CRAWL SPACES SHALL HAVE R-8 INSULATION. 2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR
- FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN (FOR UNRATED DOORS)
- 3. HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FREASH AIR INTAKES PROVIDING 5 CFM PER OCCUPANT & 0.06 CFM PER S.F OF BLDG. AREA PER SECTION 403.3 OF NCMC 4. VENTILATION SYSTEM SHALL OPERATE CONTINUOUSLY WHEN BUILDING
- IS OCCUPIED.
- 5. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
- 6. THERMOSTATS MUST BE PROGRAMMABLE
- 7. EXHAUST FANS SHALL PROVIDE A MINIMUM OF 70 CFM FOR EACH WATER CLOSET & URINAL AND SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL INTAKE.

WINDOW & DOOR SPECIFICATIONS:

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

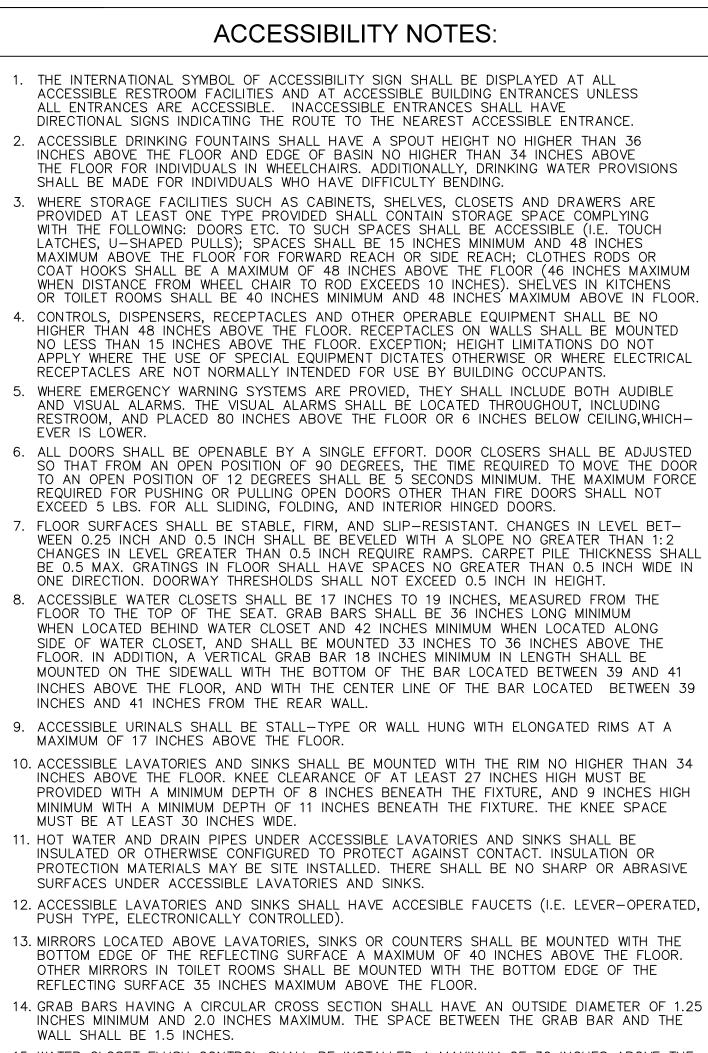
PLUMBING NOTES:

- TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS. REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F.
- FLOORS SHALL HAVEA SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES. THIS BUILDING SHALL BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER
- SYSTEM IF THESE ARE AVAILABLE. 4. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
- 5 water heater shall have safety pan with 1 inch drain to exterior, T & P RELIEF VALVE WITH DRAIN TO THROUGH AN AIR GAP 2" to 6" ABOVE PAN AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE. DWV SYSTEM SHALL BE EITHER ABS OR PVC - DWV.
- WATER SUPPLY LINES SHALL BE CPVC, OR COPPER, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS. WATER CLOSETS ARE TANK TYPE UNLESS OTHERWISE SPECIFIED. URINALS ARE FLUSH VALVE TYPE.
- . BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL
- 10. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120F (48.8C).
- 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
- . WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. 13. WATER, SOIL, AND WASTE PIPES IN UNCONDITION SPACES SHALL BE INSULATED AND
- PROTECTED FROM FREEZING. 4. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED BY CODE
- ARE NOT PROVIDED WITHIN THE BLDG. A HANDICAPPED ACCESSIBLE FACILITY MUST BE PROVIDED ON SITE WITHIN THE ALLOWABLE DISTANCE PER CODE. THE REQUIRED FACILITY SHALL BE THE RESPONSIBILITY OF THE BLDG. OWNER AND IS SUBJECT TO THE THE REVIEW & APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY. THIS NOTE SHALL BE INDICATED ON THE DATA PLATE.
- 15. CUSTOMER ASSUMES ALL RESPONSIBILTY FOR REQUIRED PLUMBING FIXTURES WHEN NOT SHOWN ON PLAN.
- TEMPERATURE ACTUATED MIXING VALVES WHICH ARE INSTALLED TO REDUCE WATER TEMPERATURE TO DEFINE LIMITS SHALL COMPLY WITH ASSE 1017 TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMP LIMITING DEVICE
- THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAX OF 110F(43C)

BUILDING DESIGN PARAMETERS:			
1.	USE/OCCUPANCY:	BUSINESS	
2.	CONSTRUCTION TYPE:	VB	
3.	SPRINKLER SYSTEM:	NO	
4.	BUILDING AREA:	1727 S.F.	
5.	BUILDING HEIGHT:	≤ 15 FEET	
6.	NUMBER OF STORIES:	1	
7.	NUMBER OF MODULES:	2	
8.	OCCUPANT LOAD 18 BASED ON 10	00 SF/PERSON.	
9.	EXTERIOR WALL FIRE RATING:	NOT RATED	
10.	THIS BUILDING MUST BE INSTALLED SEPARATION DISTANCES REQUIRED I AND SECTION 705.3.		
11.	ENERGY CODE COMPLIANCE: SEE A CALCULATIONS.	TTACHED ENERGY	
12.	MANUFACTURERS DATA PLATE, STA THIRD PARTY LABELS ARE TO BE L ELECTRICAL PANEL.		

COVER SHEETSHEET: 1 OF 6FLOOR PLANSHEET: 2 OF 6ELECTRICALSHEET: 3 OF 6PLUMBINGSHEET: 4 OF 6ELEVATIONSSHEET: 5 OF 6X-SECTIONSHEET: 6 OF 6FOUNDATIONSHEET: 1 OF 1CONSULTING ENGINEER: KENNETH EARL DUNMON P.E.PO BOX 6853 - AMERICUS, GA 31719 - 229-942-2020	OUR S 892 RA PE	RING SPACE, INC. STRENGTH IS TEAMWORK AILROAD AVENUE EAST EARSON, GA. 31642 EL (912)422-6455 FAX (912)422-6466	
	SERIAL NUMBER	: FSSI-10912AB	
HILL CARO	REFERENCE # FSS-10912AB	STATES: NC	
Karsh Calleran	DATE: JANUARY 25, 2023	DESTINATION: BUNNLEVEL, NC	
017400	DRAFTSMAN: BRANDON R. DOYLE	SIZE: 23'-4" x 74' (DOUBLE-WIDE)	
THE ANETHE DUNNING	SCALE: NO SCALE	REVISIONS: N/A	
and the second se	CODES: 2018 NCBC (2015 IBC W/ NC AMENDS)	PLAN NO: FSS 10912AB (NC)	
	COVER SHEET	SHEET: 1 OF 6	

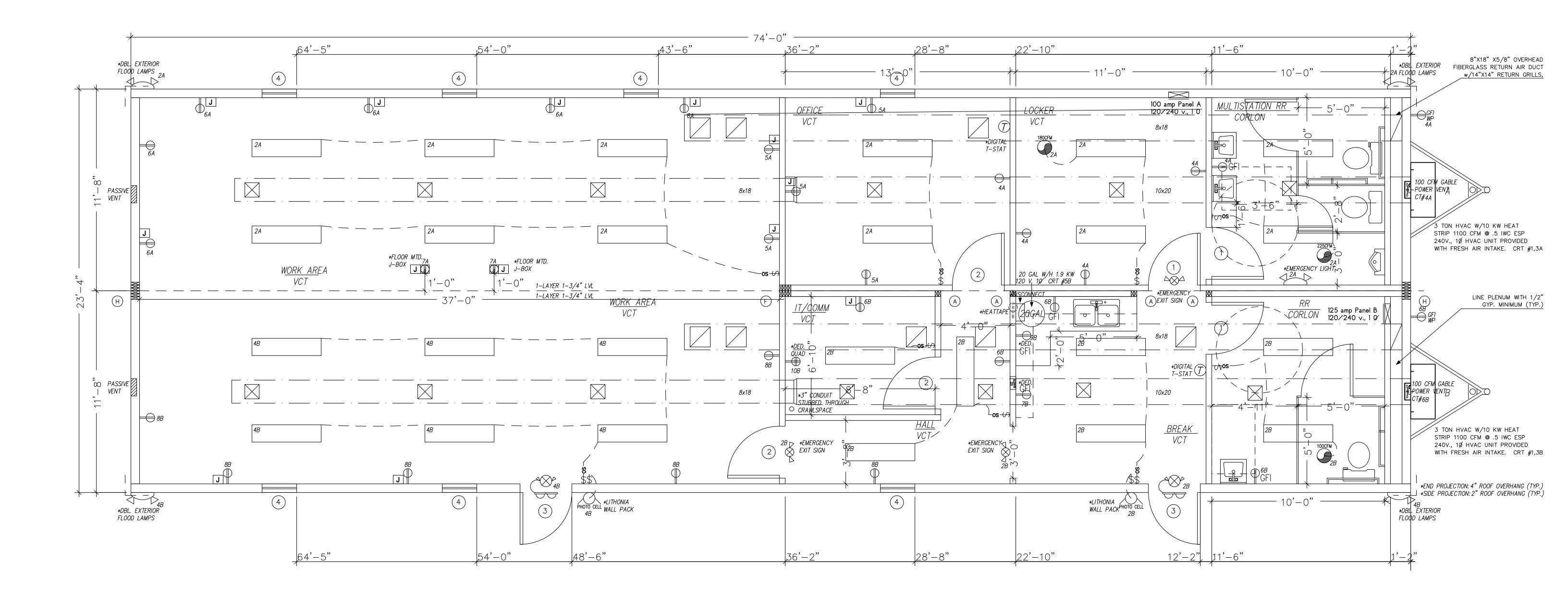


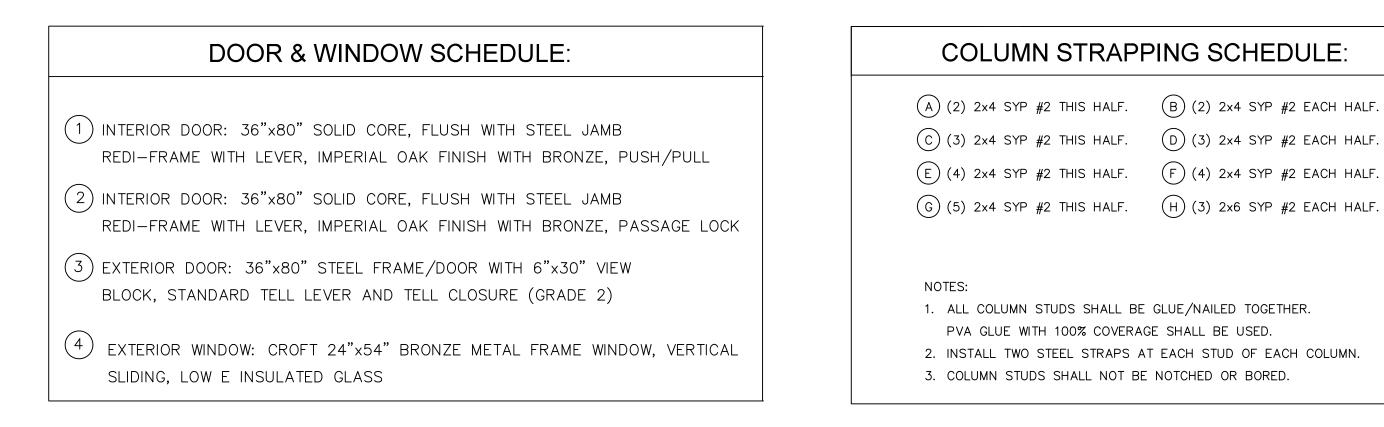


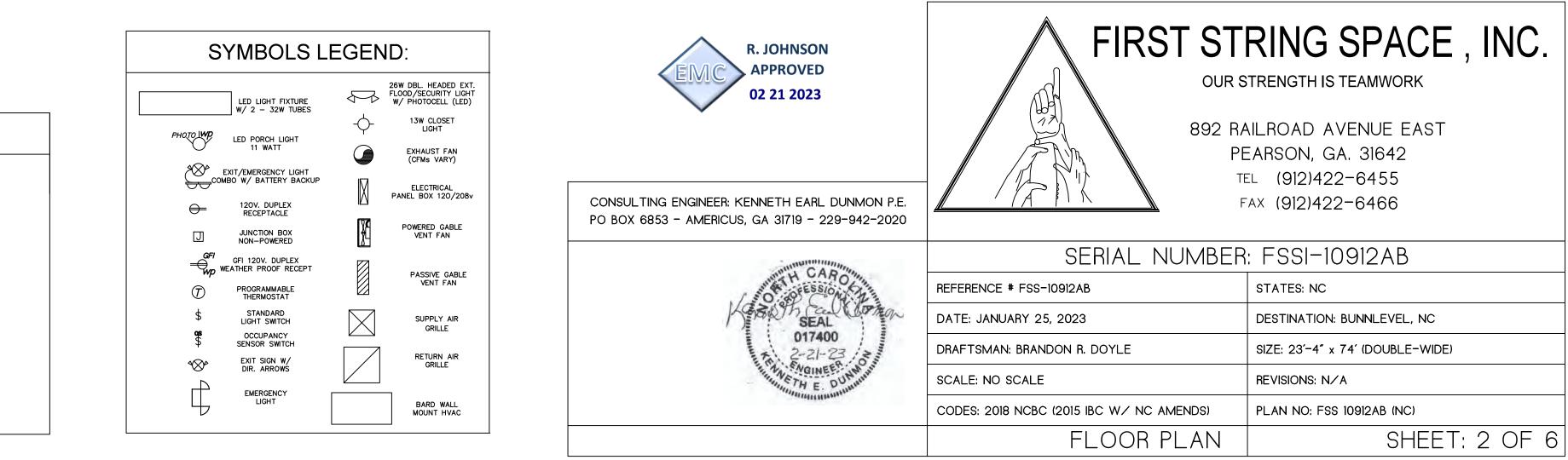
- 15. WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 36 INCHES ABOVE THE FLOOR AND SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
- 16. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER -OPERRATED, PUSHTYPE, U-SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 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 LAVTORIES.



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(A) ELECTRICAL PANEL SCHEDULE:			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1,3	HVAC (3 Ton)	60A (2P) HACR	6-2 SE w/#10 GRND
2	LIGHTING, FANS	20A	12-2 NM
4,5,6	RECEPTACLES & FANS	20A	12-2 NM
_	WATER HEATER	20A	10-2 NM
_	DED. RECEPTS	20A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION

.0035 kW/SF x 863 SF x 1.25 19 RECEPTS @ 180 VA / 1000 3 FANS @ .3 kW x 1.25 0 water heater @ 6.5kW 0 DED. RECEPT @ 1.9kW x 1.25 1 HVAC <u>18.9</u> TOTAL kW TOTAL / 240 x 1000 = <u>79</u> AMPS INSTALL<u>100</u>AMP PANEL 120/240 V, 1 PHASE

	KVA
	7.0
=	3.8
=	<u> </u>
=	1.2
=	
=	
=	10.5

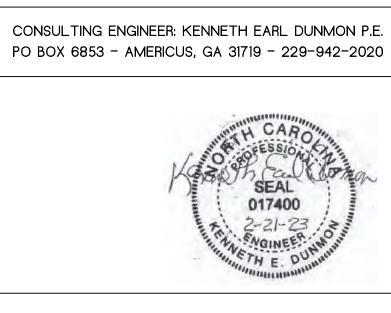
(B) ELECTRICAL PANEL SCHEDUL

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	W ((
1,3	HVAC (3 Ton)	60A (2P) HACR	6- w/#
2,4	LIGHTING, FANS	20A	12-
6,8	RECEPTACLES	20A	12-
5	WATER HEATER	20A	12-
7,9,10	DED. RECEPTS	20A	12-

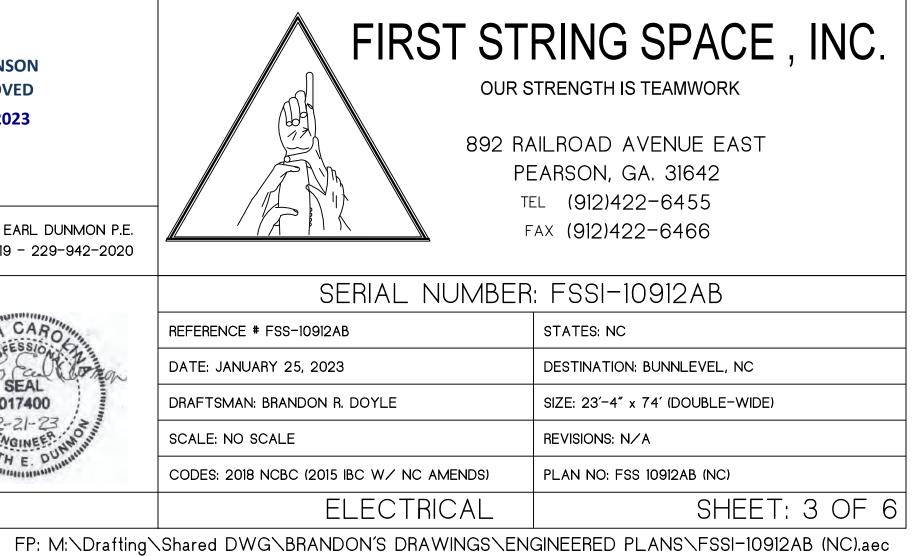
ELECTRICAL PANEL SIZING:

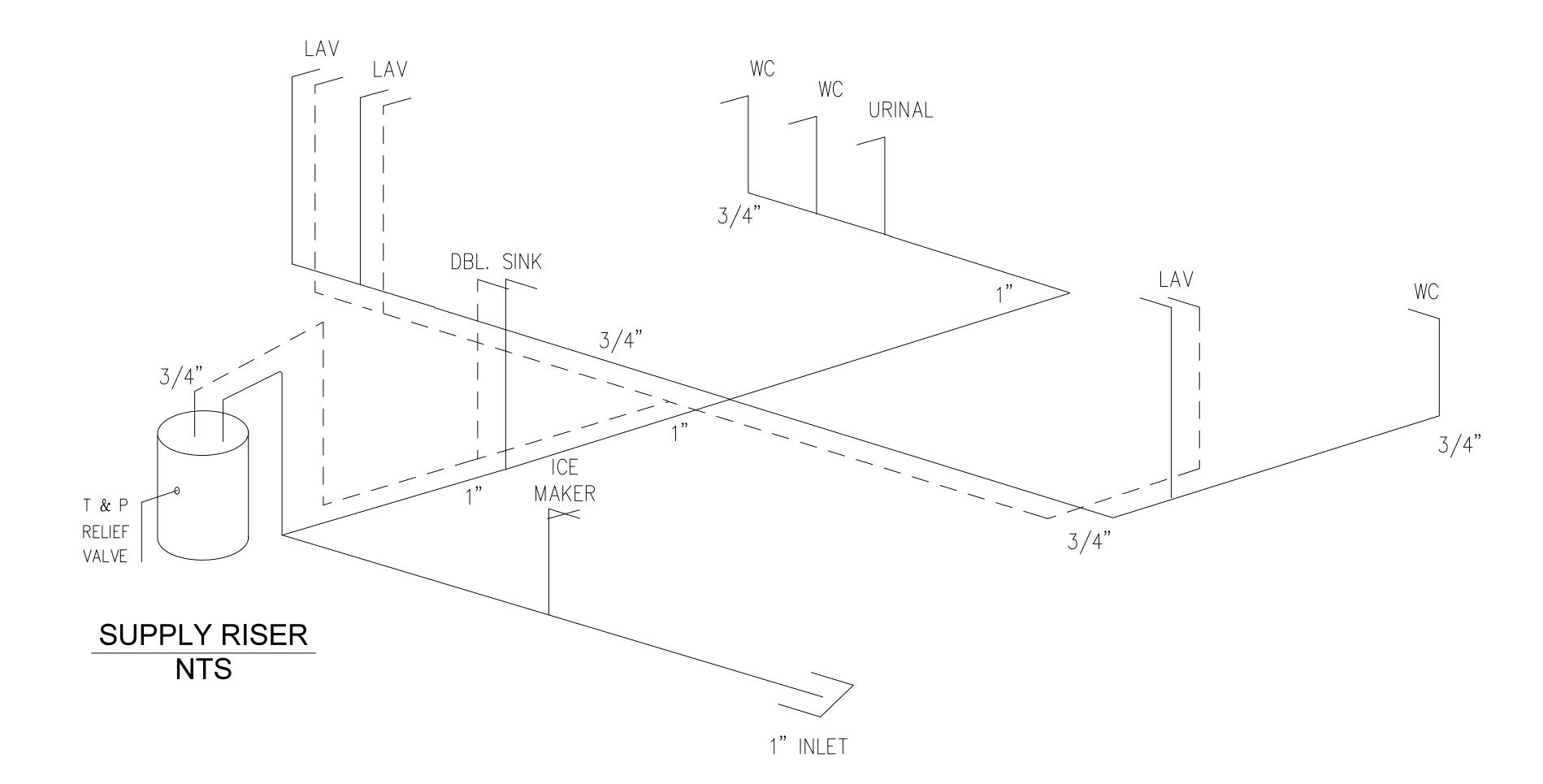
DESCRIPTION .0035 kW/SF x 863 SF x 1.25 12 RECEPTS @ 180 VA / 1000 2 FANS @ .3 kW x 1.25 _____ 1 WATER HEATER @ 1.9kW x 1.25 2 DED. RECEPT @ 1.9kW x 1.25 1 DED. QUAD RECEPT @ 3.8kW x 1.25 _____ = 1 HVAC <u>29.3</u> TOTAL kW TOTAL / 240 x 1000 = <u>123</u> AMPS INSTALL<u>125</u> AMP PANEL 120/240 V, 1 PHASE

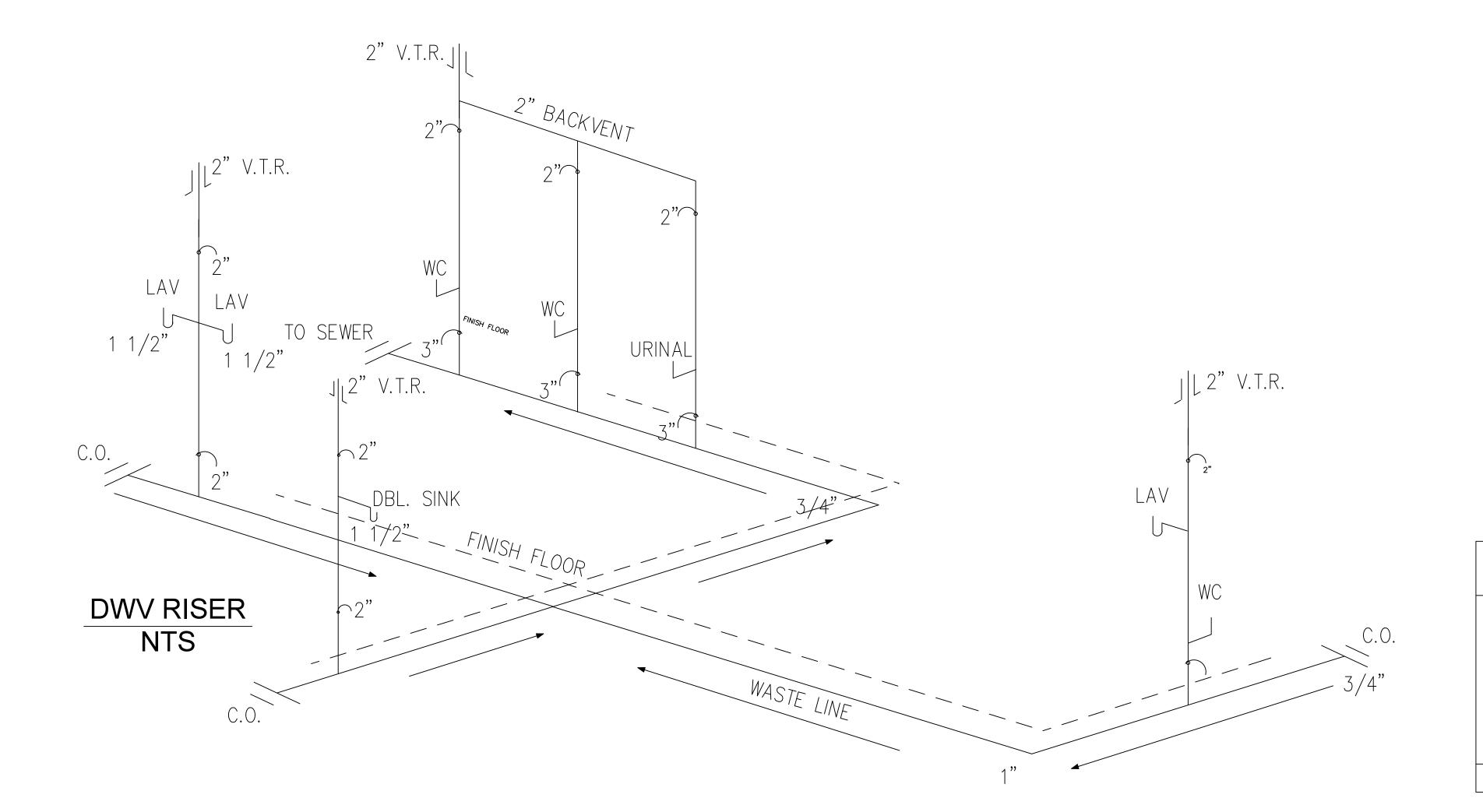




_E:
WIRE CU.)
5–2 SE #10 GRND
2-2 NM
2-2 NM
2-2 NM
2-2 NM
(VA
3.8
3.8 2.2
.8
2.4
4.8
4.8
10.5











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DWV RISER NOTES:

1. THE DWV RISER INDICATES ONE METHOD OF INSTALLATION 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 ISTE BY OTHERS.

3. 1-1/2" and 2 inch horizontal drain lines shall be installed with A slope of 1/4" per foot.

4. BELOW FLOOR HORIZONTAL DRAIN LINES ARE 3 INCH MINIMUM DIAMETER UNLESS INDICATED OTHERWISE.

5. A MAXIMUM OF 3 WATER CLOSETS MAY DISCHARGE INTO A 3 INCH LINE.

6. CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS AS INDICATED IN TABLE 706.3. VERTICAL TO HORIZONTAL AND HORIZONTAL TO VERTICAL CHANGES OF DIRECTION ARE TO BE MADE WITH LONG SWEEP FITTINGS.

PLUMBING & SUPPLY LINE NOTES:

- 1. ALL SUPPLY LINES TO BE CPVC EXCEPT WHERE NOTED OTHERWISE. 2. ALL JOINTS TO BE MANUFACTURER APPROVED METHODS.
- 3. ALL FITTINGS TO BE PLASTIC, CHROME, BRASS, OR OTHER APPROVED MATERIAL.
- 4. ALL SUPPLY LINES TO HAVE APPROVED SHUTOFF VALVES.
- 5. LINES TO BE SUPPORTED VERTICALLY MAXIMUM 48" O.C. 6. LINES TO BE SUPPORTED HORIZONTALLY MAXIMUM 32" O.C.
- 7. ALL PIPING BELOW FLOOR NOT CONCEALED IN FLOOR CAVITY TO BE INSULATED
- WITH MINIMUM R-4. 8. INTERCONNECTION OF SEPARATE WATER HEATERS TO BE DONE ON SITE BY LICENSED PLUMBER AND SUBJECT TO LOCAL CODE AUTHORITY.

SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI. SHOULD BE VARIFIED PRIOR TO CONSTRUCTION.

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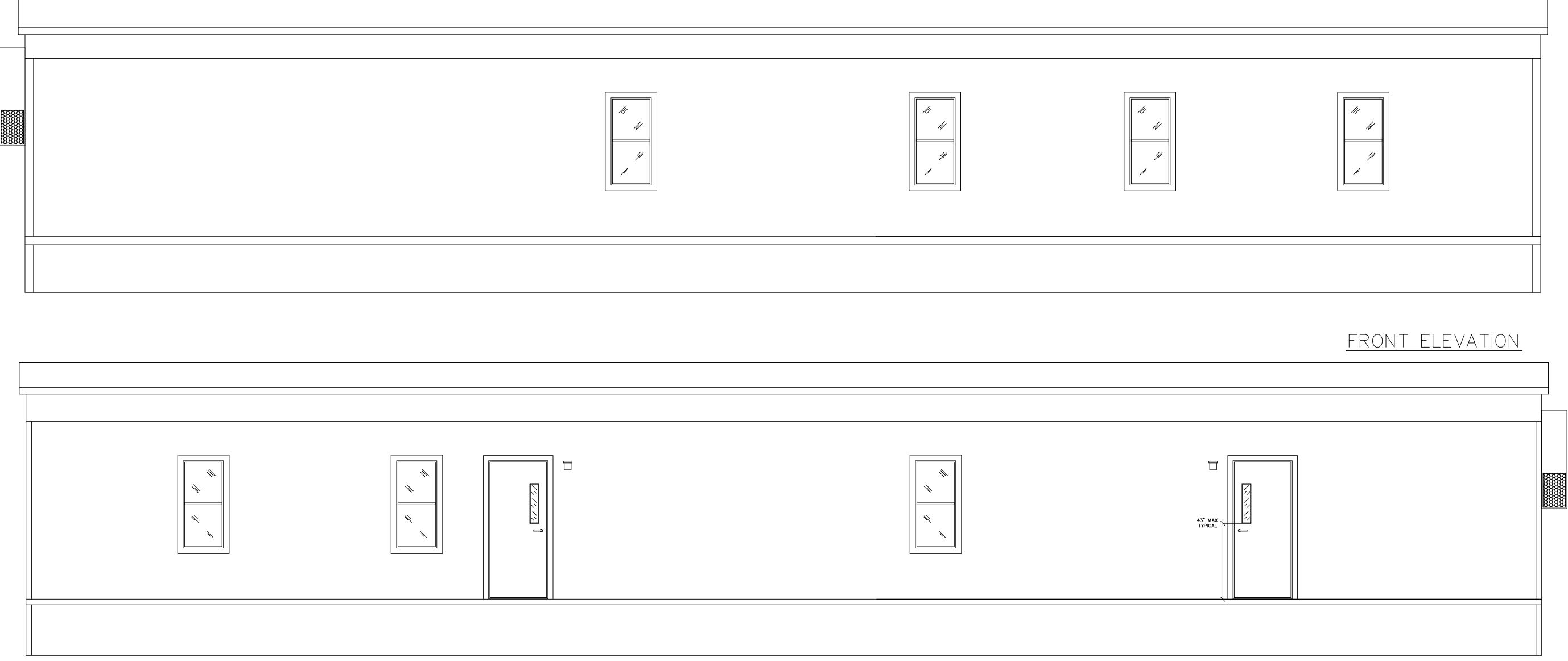
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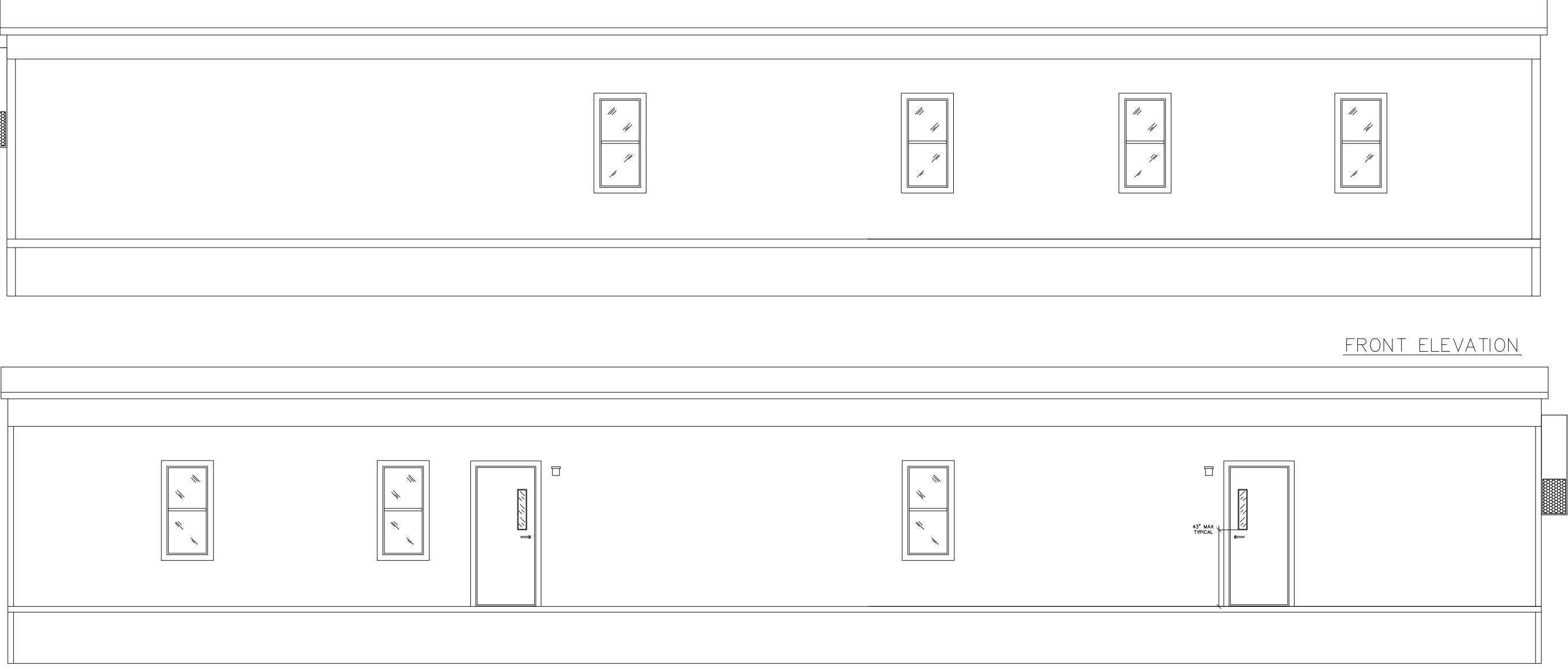
FIRS	T STRING SPACE, INC.
	OUR STRENGTH IS TEAMWORK
	892 RAILROAD AVENUE EAST
Flin I	PEARSON, GA. 31642
	TEL (912)422-6455
	FAX (912)422-6466

PO BOX 6853 - AMERICUS, GA 31719 - 229-942-2020

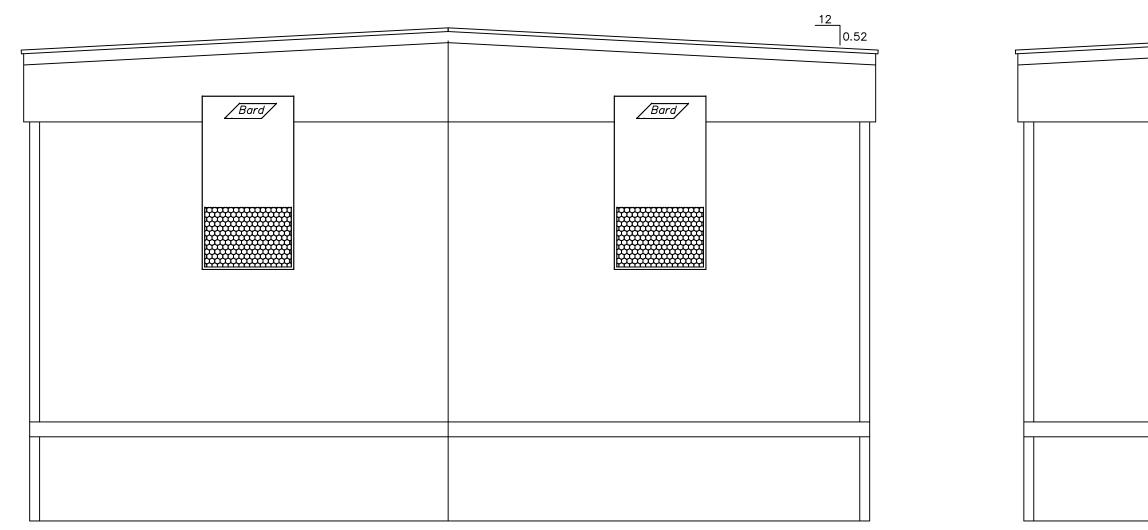
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SERIAL NUMBER	: FSSI-10912AB
REFERENCE # FSS-10912AB	STATES: NC
DATE: JANUARY 25, 2023	DESTINATION: BUNNLEVEL, NC
DRAFTSMAN: BRANDON R. DOYLE	SIZE: 23'-4" x 74' (DOUBLE-WIDE)
SCALE: NO SCALE	REVISIONS: N/A
CODES: 2018 NCBC (2015 IBC W/ NC AMENDS)	PLAN NO: FSS 10912AB (NC)
PLUMBING	SHEET: 4 OF 6



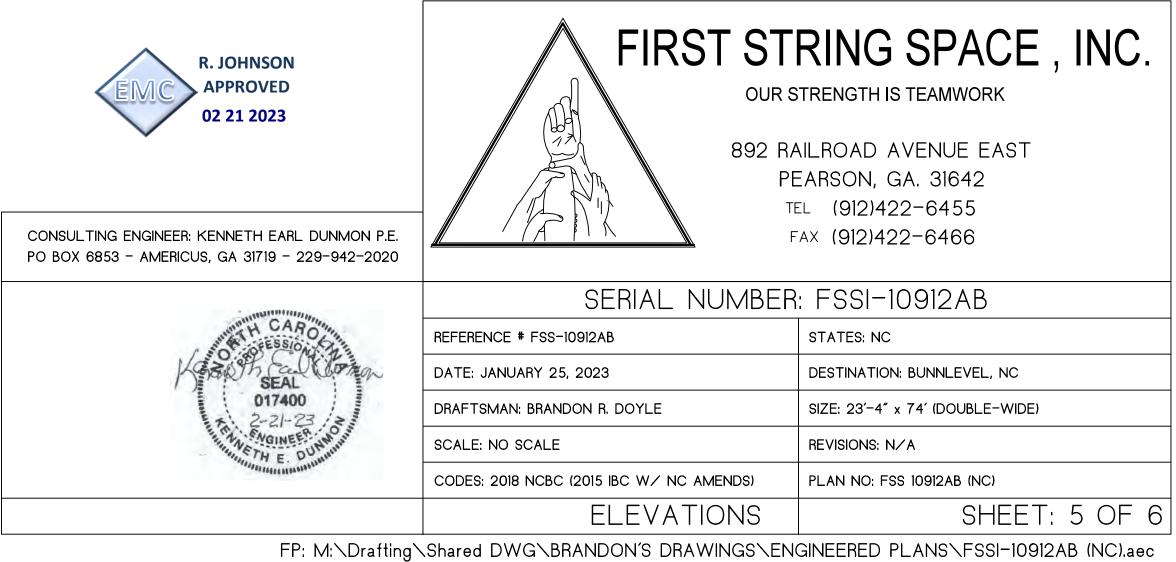






LEFT ELEVATION

	<u>12</u> 0.52



REAR ELEVATION

ELEVATION NOTES (TYP.):

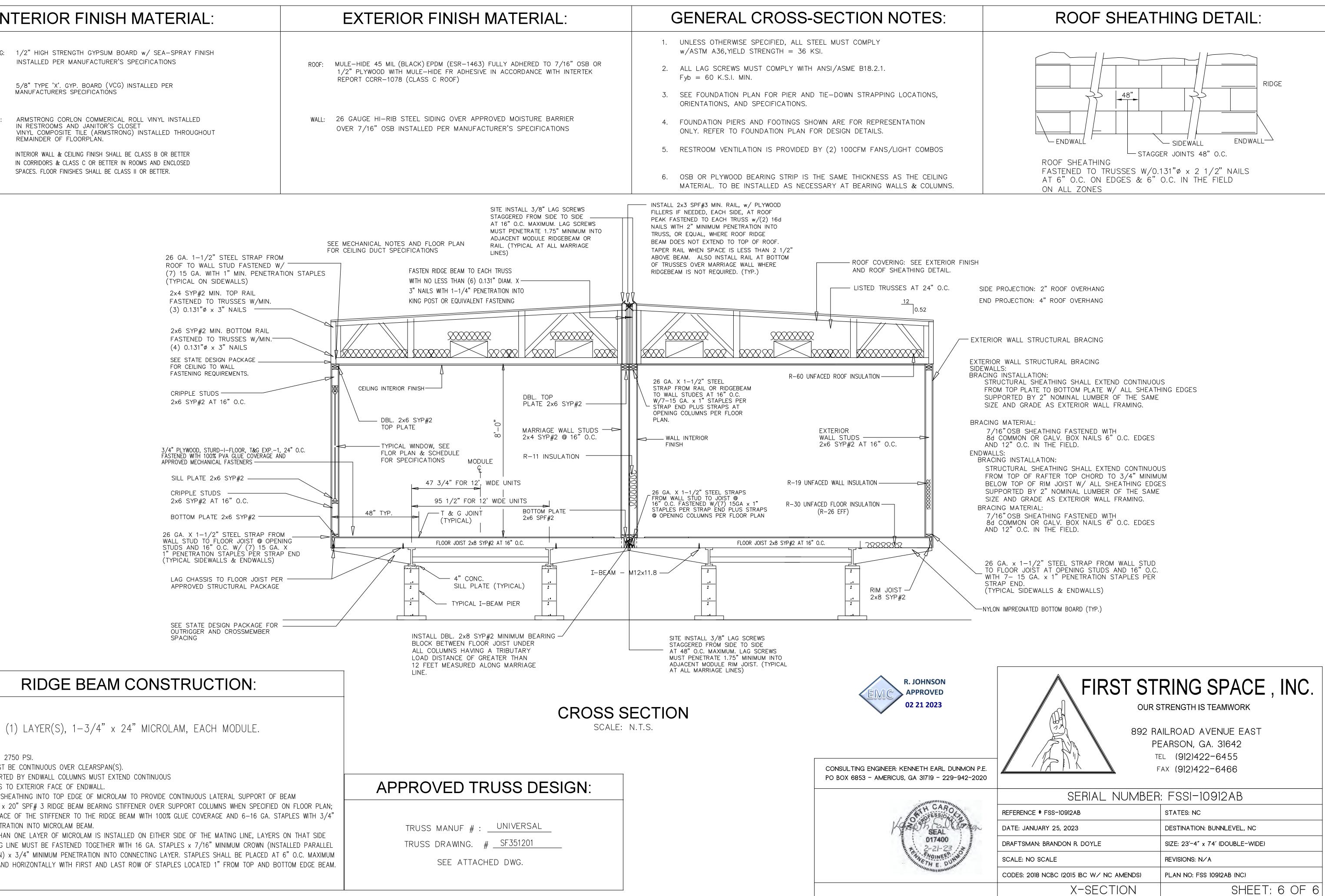
SEE-CROSS SECTION FOR METHOD OF ROOF VENTILATION

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

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

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

IN	ITERIOR FINISH MATERIAL:		EXTERIOR FIN		
CEILING:	1/2" HIGH STRENGTH GYPSUM BOARD w/ SEA-SPRAY FINISH INSTALLED PER MANUFACTURER'S SPECIFICATIONS	ROOF:	MULE-HIDE 45 MIL (BLACK) EPDM (I 1/2" PLYWOOD WITH MULE-HIDE FF		
WALL:	5/8" TYPE 'X'. GYP. BOARD (VCG) INSTALLED PER MANUFACTURERS SPECIFICATIONS		REPORT CCRR-1078 (CLASS C ROO		
FLOOR:	ARMSTRONG CORLON COMMERICAL ROLL VINYL INSTALLED IN RESTROOMS AND JANITOR'S CLOSET VINYL COMPOSITE TILE (ARMSTRONG) INSTALLED THROUGHOUT REMAINDER OF FLOORPLAN.	WALL:	26 GAUGE HI—RIB STEEL SIDING (OVER 7/16" OSB INSTALLED PER		
NOTE:	INTERIOR WALL & CEILING FINISH SHALL BE CLASS B OR BETTER IN CORRIDORS & CLASS C OR BETTER IN ROOMS AND ENCLOSED SPACES. FLOOR FINISHES SHALL BE CLASS II OR BETTER.				
		I			



NOTES:

1. MICROLAM F = 2750 PSI.

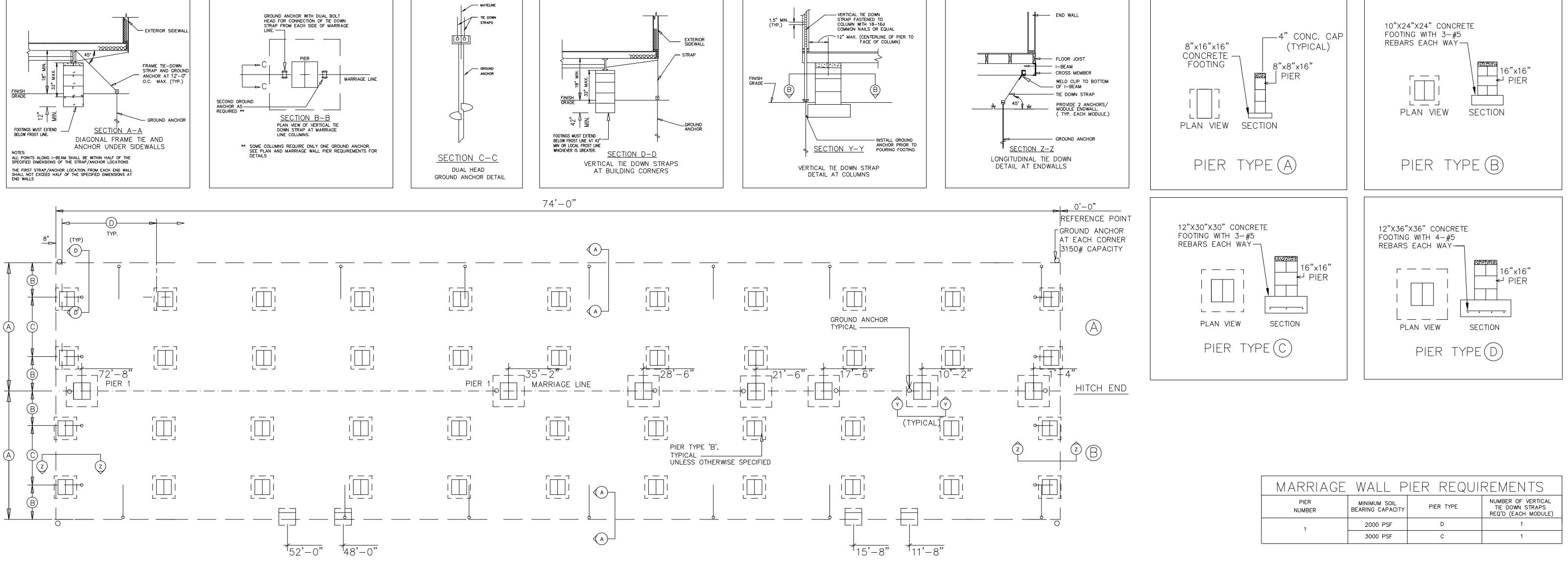
- 2. MICROLAM MUST BE CONTINUOUS OVER CLEARSPAN(S).
- 3. BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS
- OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.

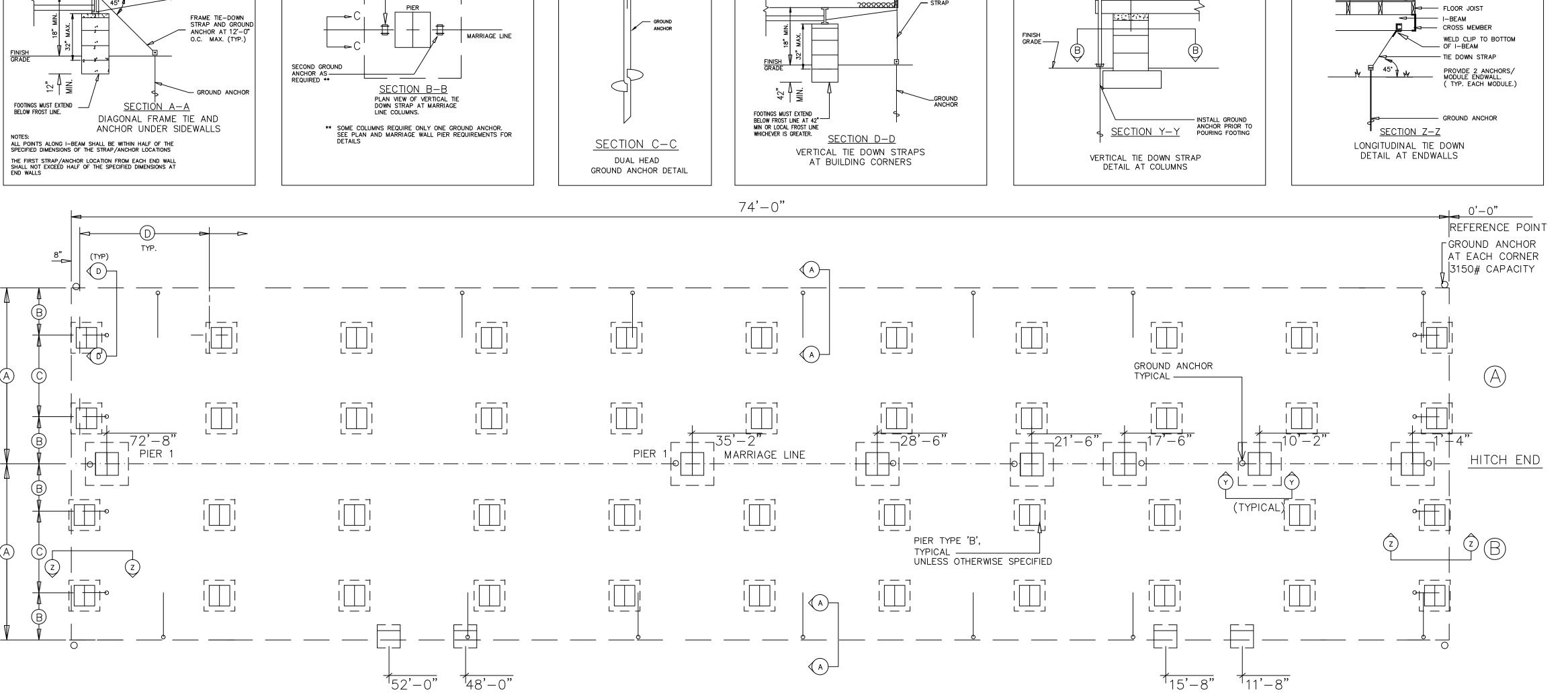
4. FASTEN ROOF SHEATHING INTO TOP EDGE OF MICROLAM TO PROVIDE CONTINUOUS LATERAL SUPPORT OF BEAM

- 5. 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 WITH 100% GLUE COVERAGE AND 6-16 GA. STAPLES WITH 3/4" MINIMUM PENETRATION INTO MICROLAM BEAM.
- 6. WHEN MORE THAN ONE LAYER OF MICROLAM IS INSTALLED ON EITHER SIDE OF THE MATING LINE, LAYERS ON THAT SIDE OF THE MATING LINE MUST BE FASTENED TOGETHER WITH 16 GA. STAPLES x 7/16" MINIMUM CROWN (INSTALLED PARALLEL TO BEAM SPAN) x 3/4" MINIMUM PENETRATION INTO CONNECTING LAYER. STAPLES SHALL BE PLACED AT 6" O.C. MAXIMUM VERTICALLY AND HORIZONTALLY WITH FIRST AND LAST ROW OF STAPLES LOCATED 1" FROM TOP AND BOTTOM EDGE BEAM.

ROOF SHEATHING DETAIL:	
ROF SHEATHING FASTENED TO TRUSSES W/0.131"Ø x 2 1/2" NAILS AT 6" O.C. ON EDGES & 6" O.C. IN THE FIELD ON ALL ZONES	

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FOUNDATION NOTES:

- 1. ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN
- ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES. 2. TIE-DOWN STRAPS TO BE 1-1/4"x .035" TYPE-1, FINISH B, GRADE 1 ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3953-91. TIE DOWN STRAPS AND CONNECTING HARDWARE
- SHALL HAVE 3150# MINIMUM WORKING CAPACITY. 3. EACH GROUND ANCHOR SHALL HAVE A WORKING CAPACITY NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL TIE DOWN STRAPS CONNECTED TO THE GROUND ANCHOR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHOR, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELIXES, ETC., TO BE AS SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE HOLDING OR PULLOUT CAPACITIES OF GROUND ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
- 4. THE FIRST TIE-DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.
- 5. ALL PIERS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. MASONRY UNITS SHALL BE LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT INSTALLED IN ACCORDANCE WITH ITS LISTING. PIER FOOTINGS SHALL BE AS DESCRIBED ABOVE. 6. MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.
- 7. ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.
- 8. SEE SHEET 1 OF 5 FOR BUILDING DESIGN LOADS. 9. I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90° FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). CENTERLINE OF EACH PIER
- MUST BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE. 10. SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY.
- 11. INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY - OPTIONAL WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPENABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.
- 12. THE FOUNDATION DIMENSIONS SHOWN ON THE ABOVE LAYOUT ARE NOMINAL DIMENSIONS OF THE FACTORY BUILT MODULARS AND DO NOT ACCOUNT FOR GAPS BETWEEN MODULES THAT MAY OCCUR DURING INSTALLATION.. THE FOUNDATION DESIGNER. FOUNDATION CONTRACTOR AND MODULAR BUILDING INSTALLER MUST CONSULT TO DETERMINE IF ADJUSTMENTS TO PIER LOCATIONS ARE NEEDED TO ACCOUNT FOR TOLERANCES NEEDED DURING INSTALLATION OF THE BUILDING MODULES
- 13. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.

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.

NOTE:

THE NUMBER OF PIERS SHOWN ON THIS FOUNDATION PLAN IS NO INDICATION OF THE AMOUNT OF PIERS REQUIRED AND NEEDED FOR THIS BUILDING. SEE MAXIMUM PIER SPACING CHARTS ABOVE FOR THE CORRECT NUMBER OF PIERS REQUIRED FOR EACH SOIL BEARING CAPACITY. ALSO THE NUMBER STRAPS (SPACING) WILL BE DETERMIND IN SECTION A-A. THE NUMBER OF ALL COMPONENTS OF THIS FOUNDATION PLAN CAN BE FOUND IN THE CHARTS AND DTAILS ABOVE.

NOTE:

THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE AS A TYPICAL STANDARD. ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY.

• TYPICAL FOUNDATION LAYOUT SHOWN IS TO AID THE SITE ENGINEER/ARCHITECT FOR ENGINEER/ARCHITECT FOR LOCATIONS OF REQUIRED SUPPORTS. ACTUAL FOUNDATION MUST BE DESIGNED TO SITE CONDITIONS FOR ALL APPLICABLE LOADS. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOUNDATION, SEISMIC DESIGN AND ATTACHING THE BUILDING TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGITUDINAL SHEAR, UPLIFT AND DOWNWARD FORCES IN BOTH DIRECTIONS.

NOTICE TO FOUNDATION CONTRACTOR: ALL DIMENSIONS, DETAILS AND NOTES ON THIS FOUNDATION PLAN MUST BE REVIEWED AND VERIFIED BY THE FOUNDATION CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE FOUNDATION. ANY APPARENT CONFLICTS, ERRORS OR OMISSIONS MUST BE BROUGHT TO THE ATTENTION OF THE DESIGN || PROFESSIONAL FOR RESOLUTION PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR MUST OBTAIN APPROVAL OF THE FOUNDATION PLAN FROM THE LOCAL BUILDING DEPARTMENT PRIOR TO COMMENCING CONSTRUCTION AND MUST COMPLY WITH ALL STATE AND LOCAL CODE, APPROVAL AND AND INSPECTION REQUIREMENTS. EMC IS NOT THE DESIGNER OF THE BUILDING OR THE FOUNDATION AND IS NOT RESPONSIBLE OR LIABLE FOR ANY CONFLICTS, ERRORS, OMMISSIONS OR FAILURES TO COMPLY WITH STATE OR LOCAL CODES

FP: M:

SEAL

017400

CONSULTING ENGINEER: KENNETH EARL DUN PO BOX 6853 - AMERICUS, GA 31719 - 229-

APPROVED 02 21 2023

R. JOHNSON

FOUNDAT MODULE o WIDTH — MOE 11'-8" 22

MARRIAGE	WALL P	IER REQUI	REMENTS
PIER NUMBER	MINIMUM SOIL BEARING CAPACITY	PIER TYPE	NUMBER OF VERTICAL TIE DOWN STRAPS REQ'D (EACH MODULE)
1	2000 PSF	D	1
	3000 PSF	С	1

tion dimensi	ONS		
PIER TO DULE EDGE	C STEEL BEAM SPACING	D maximum D pier spacing	MINIMUM SOIL BEARING CAPACITY
2 1/4"	95 1/2"	9'-0"	2000 PSF
2 1/4	95 1/2	9'-0"	3000 PSF

	FIRST STRING SPACE, INC. OUR STRENGTH IS TEAMWORK				
JNMON P.E. -942-2020		AILROAD AVENUE EAST EARSON, GA. 31642 EL (912)422-6455 FAX (912)422-6466			
	SERIAL NUMBER	: FSSI-10912AB			
2	REFERENCE # FSS-10912AB	STATES: NC			
bornon	DATE: JANUARY 25, 2023	DESTINATION: BUNNLEVEL, NC			
NO	DRAFTSMAN: BRANDON R. DOYLE	SIZE: 23'-4" x 74' (DOUBLE-WIDE)			
an and a second	SCALE: NO SCALE	REVISIONS: N/A			
	CODES: 2018 NCBC (2015 IBC W/ NC AMENDS)	PLAN NO: FSS 10912AB (NC)			
	FOUNDATION	SHEET: 1 OF 1			
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COMcheck Software Version 4.1.5.1 Envelope Compliance Certificate

Project Information

Energy Code: Project Title:	90.1 (2016) Standard 02 21 2023
Location:	Dunn, North Carolina
Climate Zone:	3a
Project Type:	New Construction
Vertical Glazing / Wall Area:	4%
Performance Sim. Specs:	EnergyPlus 8.1.0.009 (EPW: USA_NC_Raleigh-Durham.Intl.AP.723060_TMY3.epw)

Construction Site:

Owner/Agent:

Designer/Contractor: First String Space 892 Railroad Avenue East Pearson, GA 31642

R. JOHNSON

APPROVED

Building Area	Floor Area
1-Office : Nonresidential	1727

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Office]	1727	60.0	0.0	0.017	0.027
Floor 1: Wood-Framed, [Bldg. Use 1 - Office]	1727	26.0	0.0	0.038	0.033
NORTH Exterior Wall 1 copy 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office] Window 1 copy 1: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID LABEL, SHGC 0.24, VT 0.51, [Bldg. Use 1 - Office] (b)	592 36	19.0 	0.0	0.067 0.340	0.089 0.350
EAST Exterior Wall 1 copy 2: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office]	186	19.0	0.0	0.067	0.089
<u>SOUTH</u> Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office] Window 1: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID LABEL, SHGC 0.24, VT 0.51, [Bldg. Use 1 - Office] (b)	592 27	19.0 	0.0	0.067 0.340	0.089 0.350
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	40			0.153	0.370
WEST Exterior Wall 1 copy 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office]	186	19.0	0.0	0.067	0.089

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

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

Envelope PASSES: Design 5% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

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Signature Date Date
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HILL E. UNINN



COMcheck Software Version 4.1.5.1 Interior Lighting Compliance Certificate

Project Information

Energy Code: Project Title: Project Type:

Construction Site:

90.1 (2016) Standard FSS-10912 New Construction

Owner/Agent:



Designer/Contractor: First String Space 892 Railroad Avenue East Pearson, GA 31642

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft		D wed Watts B X C)
1-Office	1727	0.79		1364
	Ţ	otal Allowed V	/atts =	1364
Proposed Interior Lighting Power				
Α	В	С	D	Е
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
1-Office				
LED 1: LED Linear 33W:	1	25	33	825
		Total Propos	sed Watts =	825

Interior Lighting PASSES: Design 40% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature

COM*check* Software Version 4.1.5.1 Exterior Lighting Compliance Certificate

Project Information

Energy Code: Project Title: Project Type: Exterior Lighting Zone 90.1 (2016) Standard FSS-10912 New Construction 1 (Developed rural area)

Construction Site:

Owner/Agent:



Designer/Contractor: First String Space 892 Railroad Avenue East Pearson, GA 31642

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Pedestrian and vehicular entrances and exits	3 ft of door	14	Yes	42
Pedestrian and vehicular entrances and exits	3 ft of door	14	Yes	42
Illuminated length of facade wall or surface	74 ft	0	No	0
Illuminated length of facade wall or surface	10 ft	0	No	0
Illuminated area of facade wall or surface	20 ft2	0	No	0
		Total Tradab	ole Watts (a) =	84
		Total All	owed Watts =	84
Total Allowed Supplemental		tal Watts (b) =	350	

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

(b) A supplemental allowance equal to 350 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Pedestrian and vehicular entrances and exits (3 ft of door width): Tradable Wattage				
LED 1: LED A Lamp 11W:	1	1	11	11
LED 1 copy 1: LED A Lamp 11W:	1	1	11	11
Illuminated length of facade wall or surface (74 ft): Non-tradable Wattage LED 3: Other:	2	2	26	52
Illuminated length of facade wall or surface (10 ft): Non-tradable Wattage LED 3 copy 1: Other:	2	1	26	26
Illuminated area of facade wall or surface (20 ft2): Non-tradable Wattage				
LED 3 copy 2: Other:	2	1	26	26
	Total Trac	dable Propos	ed Watts =	22

Exterior Lighting PASSES: Design 95% better than code

Exterior Lighting Compliance Statement

 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COM

 mandatory requirements listed in the Inspection Checklist.

 Name - Title

 Signature

TENNETH E.



COMcheck Software Version 4.1.5.1 Mechanical Compliance Certificate

Project Information

Energy Code: Project Title: Location: Climate Zone: Project Type:

Construction Site:

90.1 (2016) Standard FSS-10912 Dunn, North Carolina 3a New Construction

Owner/Agent:



Designer/Contractor: First String Space 892 Railroad Avenue East Pearson, GA 31642

Mechanical Systems List

Quantity System Type & Description

2 HVAC System 1 (Single Zone):

- Heating: 1 each Other, Electric, Capacity = 34 kBtu/h
 No minimum efficiency requirement applies
 Cooling: 1 each Single Package Vertical AC Unit, Capacity = 36 kBtu/h, Air-Cooled Condenser
 Proposed Efficiency = 11.00 EER, Required Efficiency: 10.00 EER
 Fon System: FAN SYSTEM 1. Compliance (Match approach to HD method) : Decess
 - Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP method) : Passes

Fans:

- FAN 1 Supply, Constant Volume, 1100 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade
- 1 Water Heater 1:
 - Electric Storage Water Heater, Capacity: 20 gallons No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.



COMcheck Software Version 4.1.5.1 Inspection Checklist

Energy Code: 90.1 (2016) Standard

Requirements: 0.0% were addressed directly in the COM*check* software

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 5.4.3.1.1, 5.7 [PR1] ¹		□Complies □Does Not □Not Observable □Not Applicable	
4.2.2, 6.4.4.2.1, 6.7.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	□Complies □Does Not □Not Observable □Not Applicable	
4.2.2, 7.7.1, 10.4.2 [PR3] ¹	calculations provide all information with which compliance can be determined for the service water	□Complies □Does Not □Not Observable □Not Applicable	
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²		□Complies □Does Not □Not Observable □Not Applicable	
4.2.2, 9.4.3, 9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
9.7 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
6.7.2.4 [PR5] ¹	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	□Complies □Does Not □Not Observable □Not Applicable	

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

3 Low Impact (Tier 3)

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

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

3 Low Impact (Tier 3)

Section		Plans Verified	Field Verified		
# & Req.ID	Framing / Rough-In Inspection	Value	Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1] ³	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air			□Complies □Does Not	
	leakage requirements.			□Not Observable □Not Applicable	
5.5.4.3a [FR8] ¹	Vertical fenestration U-Factor.	U	U	□Complies □Does Not	<i>See the Envelope Assemblies table for values.</i>
				□Not Observable □Not Applicable	
5.5.4.3b [FR9] ¹	Skylight fenestration U-Factor.	U	U	□Complies □Does Not	See the Envelope Assemblies table for values.
				□Not Observable □Not Applicable	
5.5.4.4.1 [FR10] ¹	Vertical fenestration SHGC value.	SHGC:	SHGC:	□Complies □Does Not	See the Envelope Assemblies table for values.
				□Not Observable □Not Applicable	
5.5.4.4.2 [FR11] ¹	Skylight SHGC value.	SHGC:	SHGC:	□Complies □Does Not	See the Envelope Assemblies table for values.
				□Not Observable □Not Applicable	
5.8.2.1, 5.8.2.3,	Fenestration products rated (U- factor, SHGC, and VT) in			Complies Does Not	
5.8.2.4, 5.8.2.5 [FR12] ²	accordance with NFRC or energy code defaults are used.			□Not Observable □Not Applicable	
5.8.2.2 [FR13] ¹	Fenestration and door products are labeled, or a signed and			Complies	
	dated certificate listing the U- factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.			□Not Observable □Not Applicable	
5.5.3.6 [FR14] ²	U-factor of opaque doors associated with the building	U Swinging	U Swinging	□Complies □Does Not	See the Envelope Assemblies table for values.
	thermal envelope meets requirements.	Nonswinging	Nonswinging	□Not Observable □Not Applicable	
5.4.3.1 [FR15] ¹	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.			□Complies □Does Not □Not Observable □Not Applicable	

Section # & Req.II	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
7.4.4.1 [PL2] ³	Temperature controls installed on service water heating systems (<=120ºF to maximum temperature for intended use).	Complies Does Not Not Observable Not Applicable	
7.4.6 [PL4] ³	Heat traps installed on non-circulating storage water tanks.	Complies Does Not Not Observable Not Applicable	

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

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4, 6.4.1.5 [ME1] ²	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency:	Efficiency:	□Complies □Does Not □Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.4.3.4.1 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close.			Complies Does Not Not Observable Not Applicable	
6.4.3.4.5 [ME39] ³	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			Complies Does Not Not Observable Not Applicable	
6.4.3.4.4 [ME5] ³	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.			□Complies □Does Not □Not Observable □Not Applicable	
6.4.3.8 [ME6] ¹	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			Complies Does Not Not Observable Not Applicable	
6.5.3.2.1 [ME40] ²	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp >= $\frac{1}{4}$ designed to vary supply fan airflow as a function of load and comply with operational requirements.			□Complies □Does Not □Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.4.4.1.1 [ME7] ³	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			□Complies □Does Not □Not Observable □Not Applicable	
6.4.4.1.2 [ME8] ²	HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R	R	□Complies □Does Not □Not Observable □Not Applicable	
6.4.4.1.3 [ME9] ²	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	in.	in.	□Complies □Does Not □Not Observable □Not Applicable	
6.4.4.1.4 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			Complies Does Not Not Observable Not Applicable	
6.4.4.2.1 [ME10] ²	Ducts and plenums having pressure class ratings are Seal Class A construction.			□Complies □Does Not □Not Observable □Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Report date: 02/20/23

Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16. Ductwork operating >3 in. water column requires air leakage testing. Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream. Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required. Humidification system dispersion tube hot surfaces in the			Complies Complies Not Observable Ocomplies Complies Not Observable Not Observable Ocomplies Complies Ocomplies Not Observable Not Observable Complies Compli	
column requires air leakage testing. Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream. Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required. Humidification system dispersion			Does Not Not Observable Not Applicable Complies Does Not Not Observable Not Applicable Complies	
provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream. Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required. Humidification system dispersion			Does Not Not Observable Not Applicable	
mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required. Humidification system dispersion				
Humidification system dispersion tube hot surfaces in the			□Not Observable □Not Applicable	
airstreams of ducts or air- handling units insulated >= R- 0.5.			□Complies □Does Not □Not Observable □Not Applicable	
Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.			□Complies □Does Not □Not Observable □Not Applicable	
Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.			□Complies □Does Not □Not Observable □Not Applicable	
Motors for fans >= 1/12 hp and < 1 hp are electronically- commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			□Complies □Does Not □Not Observable □Not Applicable	
Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			□Complies □Does Not □Not Observable □Not Applicable	
HO HH F A UT A A HH A HT Z H F A HT SHITT A TH A H A H A H A H A H A	handling units insulated >= R- 0.5. Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active. Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling. Motors for fans >= 1/12 hp and < 1 hp are electronically- commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control. Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper ogic and provide heating from the central air handler through primary air.	handling units insulated >= R- D.5. Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active. Units that provide ventilation air comultiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative puilding loads or outdoor air temperature indicate that most zones demand cooling. Motors for fans >= 1/12 hp and <1 hp are electronically- commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control. Parallel-flow fan-powered VAV air terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air for reverse the terminal damper ogic and provide heating from the central air handler through orimary air.	handling units insulated >= R- D.5. Preheat coils controlled to stopheat output whenever mechanical cooling, including economizer operation, is active. Units that provide ventilation air comultiple zones and operate in conjunction with zone heating and cooling systems are orevented from using heating or heat recovery to warm supply air above 60°F when representative ouilding loads or outdoor air cemperature indicate that most zones demand cooling. Motors for fans >= 1/12 hp and < 1 hp are electronically commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control. Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating coil without primary air or warmup or setback comperate the terminal fan and heating coil without primary air or reverse the terminal damper ogic and provide heating from the central air handler through ormany air.	handling units insulated >= R- Inst Observable Preheat coils controlled to stop Inst Applicable Preheat coils controlled to stop Inst Applicable Derevented ing, including Including acconomizer operation, is active. Inst stat provide ventilation air Dist stat provide ventilation air Inst stat provide ventilation air conunction with zone heating Inst stat provide ventilation air conucting systems are Inst stat provide ventilation air prevented from using heating or Inst stat provide ventilation air bowe 60°F when representative Inst Applicable Dougs or outdoor air Instemperature indicate that most console and cooling. Inst applicable Motors for fans >= 1/12 hp and Inst applicable <1 hp are electronically-

Project Title: FSS-10912

Report date: 02/20/23

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.3.7 [ME109] ²	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			□Complies □Does Not □Not Observable □Not Applicable	
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			□Complies □Does Not □Not Observable □Not Applicable	<i>See the Mechanical Systems list for values.</i>
6.5.4.2 [ME25] ³	HVAC pumping systems with >= 3 control values designed for variable fluid flow (see section details).			Complies Does Not Not Observable Not Applicable	
6.5.6.1 [ME56] ¹	Exhaust air energy recovery on systems meeting Tables 6.5.6.1-1, and 6.5.6.1-2.			□Complies □Does Not □Not Observable □Not Applicable	
6.5.7.1 [ME100] ²	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minu the available transffer air (see section details).			□Complies □Does Not □Not Observable □Not Applicable	
6.5.7.2.1 [ME32] ²	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			□Complies □Does Not □Not Observable □Not Applicable	
6.5.7.2.4 [ME49] ³	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			Complies Does Not Not Observable Not Applicable	
6.5.8.1 [ME34] ²	Unenclosed spaces that are heated use only radiant heat.			□Complies □Does Not □Not Observable □Not Applicable	
7.4.2 [ME36] ²	Service water heating equipment meets efficiency requirements.			□Complies □Does Not □Not Observable □Not Applicable	

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.9 [ME63] ²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.			□Complies □Does Not □Not Observable □Not Applicable	
6.5.10 [ME73] ³	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.			□Complies □Does Not □Not Observable □Not Applicable	

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

3 Low Impact (Tier 3)

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

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

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

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

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

3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1] ¹		□Complies □Does Not	
	0.	□Not Observable □Not Applicable	
6.4.3.1.2 [FI3] ³	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not	
		□Not Observable □Not Applicable	
6.4.3.2 [FI20] ³		□Complies □Does Not	
		□Not Observable □Not Applicable	
6.4.3.3.1 [FI21] ³		□Complies □Does Not	
		□Not Observable □Not Applicable	
6.4.3.3.2 [FI22] ³	restart and temporary operation as	□Complies □Does Not	
	required for maintenance.	□Not Observable □Not Applicable	
6.4.3.6 [FI6] ³	dehumidification are provided to a zone, simultaneous operation is	□Complies □Does Not □Not Observable	
	prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce $RH > 30\%$ in the warmest zone humidified and $RH < 60\%$ in the coldest zone dehumidified.	□Not Applicable	
6.7.2.1 [FI7] ³	submitted within 90 days of system	□Complies □Does Not	
	acceptance.	□Not Observable □Not Applicable	
6.7.2.2 [FI8] ³	systems within 90 days of system	□Complies □Does Not	
	acceptance.	□Not Observable □Not Applicable	
6.7.2.3 [FI9] ¹	balancing report is provided for HVAC	□Complies □Does Not	
	systems serving zones >5,000 ft2 of conditioned area.	□Not Observable □Not Applicable	
6.7.2.4 [FI10] ¹	tested to ensure proper operation,	□Complies □Does Not	
	calibration and adjustment of controls.	□Not Observable □Not Applicable	
7.4.4.3 [FI11] ³	Public lavatory faucet water temperature <=110°F.	□Complies □Does Not	
		□Not Observable □Not Applicable	
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days		
	of system acceptance.	□Not Observable □Not Applicable	

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

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

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

3 Low Impact (Tier 3)

MANUFACTURER: FIRST STRING SPACE DESTINATION: North Carolina					PLA	N NO. FSS	-10912	
A := 7.5 B := 5	E := 10	OCCUPAN	VCY := B	Occupant Lo	ad	<i>OC</i> := 18	BUILDING	G SIZE
	TEMPERAT	URES(DEC	GREE F.)				Length $:= 7$	4
Outside Summer	<i>OS</i> :	= 93	Outside Winter	OW := 20)		Width := 23	.34
Inside Summer	<i>IS</i> :=	= 78	Inside Winter	<i>IW</i> :=72			WallHeight	t := 8.00
Outside Air (Fre	sh Air) Reqs	s.(cfm/occ)	$OA \coloneqq OCC$	CUPANCY	OA = 3	5	L := Length	l
							W := Width	
DESIGN GRAIN DAILY RANGE(DG:=35 D	PR := 20			WH := Wal	lHeight
TYPICAL WIND	OW SIZE (ii	nches)	<i>ww</i> := 24	<i>hw</i> := 54	Awin := 1	$ww \cdot \frac{hw}{144}$		
GROSS WALL AF	REA(SF)	U-V	ALUES	No. OF WINI	DOWS	ALONG EAC	H FACE	
$NW := W \cdot WH$	NW = 187	GLASS	UG := 0.81	N face := 4	Ng	$alass := N face \cdot$	Awin	Nglass = 36
$EW := L \cdot WH$	EW = 592	WALL	<i>UW</i> :=0.09	Eface := 0	Eg	$lass := Eface \bullet$	Awin	Eglass = 0
$SW := W \cdot WH$	SW = 187			<i>Sface</i> := 3	Sgi	$lass := Sface \cdot .$	Awin	Sglass = 27
$WW := L \bullet WH$	<i>WW</i> = 592			W face := 0	Wg	glass ≔ Wface	• Awin	W glass = 0
WOOD/METAL DOOR AREAGLASS/FRENCH DOOR AREA LIGHTING WATTAGE					AGE			
# of Solid Doors	- <i>Sdr</i> :=	2 #	of Glass Doors -	Gdr := 0		QtyIn	candescent := 1	0
WD := 20)•Sdr		$GD := 20 \cdot Gdr$			<i>IL</i> := 1	11 • QtyIncand	escent

APPPLICABLE
U-VALUESWU := 0.56
U := 1.13RU := 0.05
FU := 0.08GLASS SHADING FACTOR
EQUIPMENT LOAD(BTUH/SF)SF := 0.64
EL := 15

$IL := 11 \cdot QtyInd$	candescent
QtyFluorescent	:= 25
$FL := 64 \cdot QtyFt$	luorescent
ROOF AREA /	FLOOR AREA
$R := L \bullet W$	$F := L \bullet W$
R = 1727	F = 1727





Cicalco with FTC Mathcad Express. See www.mathcad.com for more information.



HEAT GAINS (COOLING LOADS)

PAGE 2 OF 3

SENSIBLE HEAT GAINS:

A. SOLAR RADIATION THROUGH GLASS: NORTHEASTSOUTHWEST

$SRN := Nglass \cdot 30 \cdot SF$	$SRE \coloneqq Eglass \cdot 44 \cdot SF$	$SRS := Sglass \cdot 56 \cdot SF$	$SRW := Wglass \cdot 158 \cdot SF$			
5	RN + SRE + SRS + SRW			SR = 1659		
B. TRANSMISSION GA				511 - 1007		
1. GLASS:			CA (2)			
	GA := Nglass + Eglass +		GA = 63			
2. DOORS:	$TG \coloneqq GA \cdot WU \cdot (OS - I)$	S)	TG = 529			
	$TWG := WD \bullet WU \bullet (OS - 1)$	IS)	TWG = 336			
	$TGD \coloneqq GD \bullet GU \bullet (OS - I)$	<i>S</i>)	TGD = 0			
3. WALLS: FIND EQUIVALENT TEMPERATURE DIFFERENCE (ETD) TEMPERATURE CORRECTION / DAILY RANGE CORRECTION:						
TC := OS - I	S - 20	$DRC \coloneqq 0.5 \cdot (20 - DR)$	ETD := TC + DRC	ETD = -5		
	NOR	TH / EAST / SOUTH / WES	ST			
TWN := (N	$W-Nglass) \cdot UW \cdot (ETD +$	15) TW	$TWE := (EW - Eglass) \cdot UW \cdot (ETD + 36)$			
TWS := (S)	$W-Sglass) \bullet UW \bullet (ETD + 2$	3) <i>TWN</i>	$TWW \coloneqq (WW - Wglass) \cdot UW \cdot (ETD + 17)$			
	TOTAL TV	V := TWN + TWE + TWS + TW	VW T	W = 2685		
4. ROOF:	$TR := R \cdot RU \cdot (OS - IS)$		TR = 1295			
5. FLOOR:	$FR := F \cdot FU \cdot (OS - IS)$		FR = 2073			
TOTAL TRANSMISS	ION GAIN T:	= TG + TWG + TGD + TW +	TR + FR	<i>T</i> =6919		
C. OCCUPANTS:	<i>SO</i> := <i>OC</i> • 230	<i>SO</i> =4140	summer H	CARO		
D. LIGHTS:	$L := (IL \cdot 3.4) + (FL \cdot 4)$		AND THE OF	ESSION		
		,	1 Sub In	SEAL BOTHON		
E. VENTILATION:	$SV \coloneqq OC \cdot OA \cdot (OS -$	<i>,</i>	E I I	17400		
F. DUCTS: SD	$:= (SR + T + SO + L + SV) \bullet$	0.05 $SD = 1038$	Key	VGINEER SA		
G. EQUIPMENT:	$EQ := EL \bullet F$	EQ = 2590	07 Stringen NET	HE. DUNING		

 $SHG \coloneqq SR + T + SO + L + SV + SD + EQ$

SHG = 47708

	LATENT HEAT GAINS:		PAGE 3 OF 3
A. OCCUPANTS:	$LO := OC \cdot 190$	<i>LO</i> = 3420	
B. VENTILATION:	$LV := OC \bullet OA \bullet DG \bullet 0.68$	<i>LV</i> =2142	
TOTAL LATENT HEAT	LHG := LO + LV	<i>LHG</i> = 5562	
TOTAL HEAT GAIN	HG := SHG + LHG	<i>HG</i> = 53270	BTUH
	HEAT LOSS (HEATING LOADS)		
A. TRANSMISSION L	LOSS:		
1. GLASS: 2. DOORS:	$LTG := GA \cdot UG \cdot (IW - OW)$	<i>LTG</i> = 2654	
2. 2001.0.	$LTWD := WD \cdot WU \cdot (IW - OW)$	<i>LTWD</i> = 1165	
3. WALLS:	$LTGD \coloneqq GD \bullet GU \bullet (IW - OW)$	LTGD = 0	
	$LTW := (NW + EW + SW + WW - GA) \cdot UW \cdot ($	IW - OW)	
		LTW = 6994	
4. ROOF:	$LR \coloneqq R \cdot RU \cdot (IW - OW)$	LR = 4491	
5. FLOOR:	$LF := F \cdot FU \cdot (IW - OW)$	IE - 7185	

LT := LTG + LTWD + LTGD + LTW + LR + LF

REFERENCE: ACCA MANUAL FOURTH EDITION

 $LD := LT \cdot 0.05$

HL := LT + LD + LV

 $LV \coloneqq OC \cdot OA \cdot (IW - OW) \cdot 1.1$



LF = 7185

LT = 22488

LD = 1124

LV = 5148

HL = 28760

BTUH



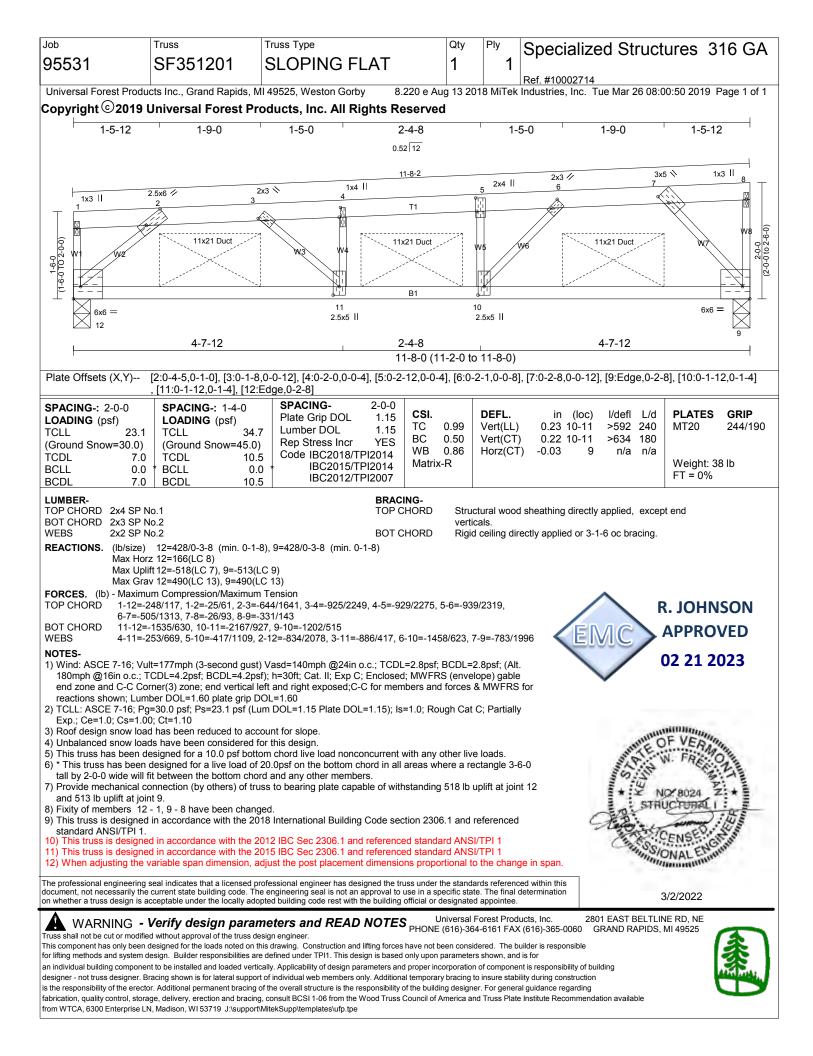
TOTAL TRANSMISSION LOSS

B. DUCTS:

C. VENTILATION:

TOTAL HEAT LOSS

Cicalco with FTC Mathcad Express. See www.mathcad.com for more information.





R. JOHNSON

02 21 2023

Jop	Truss	MFG	Customer	
95531	SF351201	316	SPECIALIZED STRUCTURES	

The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use a design in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.



Corporate Engineering 2801 East Beltline, NE Grand Rapids, MI 49525-9736 (616) 364-6161 Fax (616) 365-0060 ufpi.com



95531 SF351201 316 SPECIALIZED STRUCTURES The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily

Job



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Job



2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2) MODULAR BUILDING PLAN NUMBER : FSS-10912

Name of Project:			
Address:			Zip Code
Owner/Authorized Agent:			
		Private	State
-	City		
	eny		
CONTACT: KENNETH EARL DUNMO	ON - NC PE # 017400 -	FOR MODULAR UNITS	ONLY
DESIGNER FIRM	NAME	LICENSE #	TELEPHONE # E-MAIL
Architectural			
Civil			_ ()
Electrical Fire Alarm			
Plumbing			
Mechanical			
Sprinkler-Standpipe			
Structural			
Retaining Walls >5' High			
Other ("Other" should include firms and indivi	duala quali a tra		(
2018 NC EXISTING BUILDING COI CONSTRUCTED: (date) RENOVATED: (date)	Sible additional products of the second s CURR	occedures and requin Prescriptive Level I Historic Prop ENT OCCUPANO OSED OCCUPANO I II	Repair Chapter 14 Level II Level III erty Change of Use CY(S) (Ch. 3):
BASIC BUILDING DATA Construction Type: I-A (check all that apply) I-B	II-A II-B	☐ III-A ☐ III-B	□ IV □ V-A ■ V-B
Sprinklers: No Partial			$\blacksquare V - B$ FPA 13R \square NFPA 13D
			et Dry
Fire District: No Yes	Flood Hazard		
Special Inspections Required: No		t the local inspection ures and requirements	on jurisdiction for additional
	<u> </u>		R. JOHNSO

02 21 2023

Gross Building Area Table									
Floor	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL						
3 rd Floor									
2 nd Floor									
Mezzanine									
1 st Floor		1727							
Basement									
TOTAL		1727							

ALLOWABLE AREA

Primary Occupancy Classification(s): Select one Select one Select one Select one Select one
Assembly \square A-1 \square A-2 \square A-3 \square A-4 \square A-5
Business
Educational
Factory F-1 Moderate F-2 Low
Hazardous 🗌 H-1 Detonate 🗌 H-2 Deflagrate 🗌 H-3 Combust 🗌 H-4 Health 🗌 H-5 HPM
Institutional I I-1 Condition I I 2
\Box I-2 Condition \Box 1 \Box 2
\Box I-3 Condition \Box 1 \Box 2 \Box 3 \Box 4 \Box 5
□ I-4
Mercantile
Residential \square R-1 \square R-2 \square R-3 \square R-4
Storage S-1 Moderate S-2 Low High-piled
Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous
Accessory Occupancy Classification(s):
Incidental Uses (Table 509):
Special Uses (Chapter 4 – List Code Sections):
Special Provisions: (Chapter 5 – List Code Sections):
Mixed Occupancy: No Yes Separation: <u>0</u> Hr. Exception:
○ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
+ + = ≤1.00



STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)
NO.	USE	BLDG AREA PER	TABLE 506.2 ⁴	AREA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)	AREA	INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}
1	OFFICE	1727	9000	NOT USED	9000

¹ Frontage area increases from Section 506.2 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)

- b. Total Building Perimeter = _____ (P) (F/P)
- c. Ratio (F/P) = _____
- c. Ratio $(\Gamma/\Gamma) = (\Gamma/\Gamma)$ d. W = Minimum width of public way = ____ (W)
- e. Percent of frontage increase $I_f = 100[F/P 0.25] \times W/30 =$ (%)

² Unlimited area applicable under conditions of Section 507.

- ³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
- ⁴ The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40	15	
Building Height in Stories (Table 504.4)	2	1	

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.



BUILDING ELEMENT	FIRE		RATING	DETAIL #	DESIGN #	SHEET # FOR	SHEET #
	SEPARATION	REQ'D	PROVIDED	AND	FOR	RATED	FOR
	DISTANCE	-	(W/*	SHEET #	RATED	PENETRATION	RATED
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS
Structural Frame,		N 1 / A					
including columns, girders,		N/A					
trusses							
Bearing Walls							
Exterior		N/A					
North		N/A					
East		N/A					
West		N/A					
South		N/A					
Interior		N/A					
Nonbearing Walls and Partitions							
Exterior walls							
North		N/A					
East		N/A					
West		N/A					
South		N/A					
Interior walls and partitions		N/A					
Floor Construction		N/A					
Including supporting beams		1.07.0					
and joists							
Floor Ceiling Assembly		N/A					
Columns Supporting Floors		N/A					
Roof Construction, including supporting beams and joists		N/A					
Roof Ceiling Assembly		N/A					
Columns Supporting Roof		N/A					
Shaft Enclosures - Exit		N/A					
Shaft Enclosures - Other		N/A					
Corridor Separation		N/A					
Occupancy/Fire Barrier Separat	ion	N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant/Dwelling Unit/ Sleeping Unit Separation		N1/#A					
Incidental Use Separation		N/A					

* Indicate section number permitting reduction



PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	Allowable area (%)	ACTUAL SHOWN ON PLANS (%)
30'	N/A		

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	No 🔳 Yes
Exit Signs:	No 🔳 Yes
Fire Alarm:	🗋 No 🗋 Yes
Smoke Detection Systems:	No Yes Partial
Carbon Monoxide Detection:	No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: NOT INCLUDED WITHIN THE MODULAR BLDG PLAN SET. TO BE PROVIDED BY PERMIT APPLICANT - APPLICABLE INFO IS ON SHEETS 1 & 2

- Fire and/or smoke rated wall locations (Chapter 7)
- Assumed and real property line locations (if not on the site plan)
- Exterior wall opening area with respect to distance to assumed property lines (705.8)
- Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- Occupant loads for each area
- Exit access travel distances (1017)
- Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- \Box Dead end lengths (1020.4)
- Clear exit widths for each exit door
- Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- Actual occupant load for each exit door
- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- Location of doors with electromagnetic egress locks (1010.1.9.9)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- \Box The square footage of each fire area (202)
- The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- Note any code exceptions or table notes that may have been utilized regarding the items above



ACCESSIBLE DWELLING UNITS (SECTION 1107) NOT APPLICABLE

Total Units	Accessible Units	Accessible Units	TYPE A Units	TYPE A Units	TYPE B Units	TYPE B Units	TOTAL ACCESSIBLE UNITS
	REQUIRED	Provided	REQUIRED	PROVIDED	REQUIRED	PROVIDED	PROVIDED

ACCESSIBLE PARKING (SECTION 1106) NOT APPLICABLE: PROVIDED BY SITE DESIGNER

LOT OR PARKING AREA	TOTAL # OF PA REQUIRED	RKING SPACES PROVIDED	# OF ACC REGULAR WITH	TOTAL # ACCESSIBLE		
			5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	PROVIDED
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

τ	USE WATERCLOSETS		ETS	URINALS	LAVATORIES			SHOWERS	DRINKING	FOUNTAINS	
	MALE FEMALI		FEMALE	UNISEX		MALE FEMALE UNISEX		/TUBS	REGULAR	ACCESSIBLE	
SPACE	EXIST'G										
	NEW	2	1		1	2	1			0	0
	REQ'D	1	1			1	1			1	1
DRINKI	DRINKING FACILITIES TO BE PROVIDED ON SITE SUBJECT TO APPROVAL OF THE AHJ										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)



ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: 🗌 No 📄 Yes (The remainder of this section is not applicable)
Exempt Building: INO Ves (Provide code or statutory reference):
Climate Zone: 🔲 3A 🗌 4A 🗌 5A
Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive (If "Other" specify source here) Prescriptive
THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly) Description of assembly: ATTIC WITH WOOD JOIST/TRUSS U-Value of total assembly: 0.017 R-Value of insulation: R-60 Skylights in each assembly: N/A U-Value of skylight: N/A U-Value of skylight: N/A U-Value of skylights in each assembly: N/A Exterior Walls (each assembly) N/A Description of assembly: WOOD FRAMED @ 16" O.C. U-Value of insulation: R-19 Openings (windows or doors with glazing) 0.34
Solar heat gain coefficient: 0.34 projection factor: 0.24 Door R-Values: $U = 0.153$
Walls below grade (each assembly) N/A Description of assembly: N/A U-Value of total assembly: N/A R-Value of insulation:
Floors over unconditioned space (each assembly)Description of assembly:WOOD FRAMEDU-Value of total assembly:0.038R-Value of insulation:R-30
Floors slab on grade Description of assembly: N/A U-Value of total assembly:

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors:	Snow (I _S)	1.0	_			
-	Seismic (I _E)	1.0	-			
Live Loads:	Roof	20	psf			
	Mezzanine Floor	100	psf psf			
	1 1001		_ P ³¹			
Ground Snow Load:	ps	f				
	mate Wind Spe osure Category		130	mph (ASCE-7)		
SEISMIC DESIGN CATEGORY	Z: □A	🗌 B 🔳	C D			
Provide the following Seismic Desi	· _		_			
Risk Category (Table 160 Spectral Response Accel		■ II □ S _s 0.19	III 🗌 IV _%g	S ₁ <u>0.088</u> %g		
Site Classification (ASCI	· _		C 🔳 D	E F		
Data Sou			Presumptive	Historical Data		
Basic structural system		ng Wall		l w/Special Moment Frame		
	_	ng Frame ent Frame		l w/Intermediate R/C or Special Steel erted Pendulum		
Analysis Procedure:				Lateral Force Dynamic		
Architectural, Mechanical, Components anchored? I Yes No						
LATERAL DESIGN CONTROL: Earthquake Wind						
SOIL BEARING CAPACITIES: psf Field Test (provide copy of test report) psf Presumptive Bearing capacity 2,000 psf						
Pile size, type, and capacit						



2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb:	20
summer dry bulb:	93

Interior design conditions

interior design conditions)
winter dry bulb: summer dry bulb: relative humidity:	
Building heating load:	28760
Building cooling load:	53270
Mechanical Spacing Con	ditioning System
Unitary	
description of	unit
heating efficie	
cooling efficie	•
6	•
size category o	of unit:
Boiler	
Size category.	If oversized, state reason.:
Chiller	
Size category.	If oversized, state reason.:
List equipment efficiencie	es: 11.0 EER (SPVAC)



2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code Derformance	Prescriptive				
ASHRAE 90.1 🔳 Performance	Prescriptive				
Lighting schedule (each fixture type)					
lamp type required in fixture					
number of lamps in fixture					
ballast type used in the fixture					
number of ballasts in fixture					
total wattage per fixture					
total interior wattage specified vs. allowed (whole building or space by space)					
total exterior wattage specified vs. allowed					
Additional Efficiency Package Options					
(When using the 2018 NCECC; not required for ASHRAE	90.1)				
C406.2 More Efficient HVAC Equipment Perform	nance				
C406 3 Peduced Lighting Power Density					

C406.3 Reduced Lighting Power Density

C406.4 Enhanced Digital Lighting Controls

C406.5 On-Site Renewable Energy

C406.6 Dedicated Outdoor Air System

C406.7 Reduced Energy Use in Service Water Heating

