

CODE SUMMARY:						
STATE	BUILDING	ELEC.	MECH.	PLUMB.	ACCESS.	ENERGY
AL	2021 IBC, 2021 IFC	2020 NEC	2021 IMC	2021 IPC	2010 ADASAD	2021 IECC (2019 ASHRAE 90.1 COMPLIANCE PATH)
CT	2018 CT W/ AMEND.	2017 NEC W/ AMEND.	2015 IMC W/ AMEND.	2015 IPC W/ AMEND.	2009 ANSI 117.1 W/ AMEND.	2015 IECC W/ AMEND.
GA	2018 IBC W/ GA 2020, 2022 & 20224 AMEND. CH 120-3-3 GA STATE MIN. FIRE SAFETY STANDARDS / 2018 LIFE SAFETY CODE W/ AMEND. 2018 IFC	2020 NEC (W/ 2021 AMEND.)	2018 IMC GA 2020 & 2024 AMEND.	2018 IPC W/ GA 2020, 2022, 2023 & 2024 AMEND.	2010 ADA GA CODE CH 120-3-20	2015 IECC W/ GA 2020, 2022 & 2023 AMEND.
IN	2014 IN BC (2012 IBC W/ IN AMEND) 2014 IN FC (2012 IFC W/ IN AMEND)	2020 NEC	2014 IN MC (2012 IMC W/ IN AMEND)	2012 IN PC (2008 IPC W/ IN AMEND)	ANSI A117.1-2009	2010 IN ECC (ASHRAE 90.1-2007 W/ IN AMEND)
LA	2021 IBC W/ AMENDMENTS (DELETE CH 1, 11 & 27) 2015 NFPA 101 & 2021 CH 9 & 10.	2020 NEC W/ AMEND.	2021 IMC W/ AMEND.	2021 IPC W/ AMEND.	2010 ADASAD	2021 IECC W/ AMEND. (2019 ASHRAE 90.1 COMPLIANCE PATH)
MD	2021 IBC W/ MD AMEND. 2018 NFPA 1 W/ MD AMEND. 2018 NFPA 101 LIFE SAFETY CODE W/ MD AMEND.	2020 NEC W/ MD AMEND.	2021 IMC W/ MD AMEND.	2021 IPC W/ MD AMEND.	2019 M.A.C. (MARYLAND ACCESSIBILITY CODE) & 2010 ADA	2021 IECC W/ MD AMEND. (2019 ASHRAE 90.1 COMPLIANCE PATH)
MI	2015 MBC	2017 NEC	2015 MMC	2018 MPC	2015 MBC	2015 MEC
MS	2018 IBC	2014 NEC	2018 IMC	2018 IPC	2010 ADA ANSI A117.1-09	2018 IECC
NC	NCBC 2018 2018 NCFC	2017 NC ELECTRIC CODE	2018 NCMC	2018 NCPC	2018 NCBC CH.11 & ICC/ANSI A117.1-2009	2018 NC ENERGY CODE
NJ	2021 IBC W/ NJ AMEND.	2020 NEC W/ NJ AMEND.	2021 IMC W/ NJ AMEND.	2021 NATL. STD PC (NSPC) W/ NJ AMEND.	CH. 11 OF 2018 IBC & NJAC 5-32-7 ANSI A117.1-2017	2019 ASHREA 90.1 W/ NJ AMEND.
NY	2020 BUILDING CODE OF NYS 2020 FIRE CODE OF NYS	2017 NEC	2020 MECHANICAL CODE OF NYS	2020 PLUMBING CODE OF NYS	ICC/ANSI A117.1-2009	2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS
PA	2018 IBC W/ AMEND.	2017 NEC	2018 IMC	2018 IPC	ANSI A117.1-2009	2018 IECC W/ AMEND.
SC	2021 IBC W/ SC AMEND. 2021 IFC W/ SC AMEND.	2020 NEC W/ SC AMEND.	2021 IMC W/ SC AMEND.	2021 IPC W/ SC AMEND.	ICC / ANSI A117.1-2017	2009 IECC
TX	2021 International Building Code Including appendices C, F and K w/ amendments.	2020 NEC w/ amendments	2021 IMC w/ amendments	2021 IPC Including appendices C, E and G w/ amendments	2012 TAS 2010 ADA	2015 IECC w/ amendments
VA	2021 VA UNIFORM STATEWIDE BLDG CODE, 2021 IBC	2020 NEC W/ VA AMEND.	2021 IMC W/ VA AMEND.	2021 IPC W/ VA AMEND.	2017 ANSI A117.1 / 2010 ADA	2021 IECC W/ VA AMEND.
WV	2018 IBC, 2018 IFC W/ AMEND. 2021 NFPA 101 W/ AMEND. 2021 NFPA 1 W/ AMEND.	2020 NEC W/ AMEND.	2018 IMC W/ AMEND.	2018 IPC W/ AMEND.	ANSI A117.1-2017	2013 ASHRAE 90.1

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

BUILDING CODE STATEMENT (NYS):
TO THE BEST OF THE ARCHITECTS/ENGINEERS KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE UNIFORM CODE, THE 2017 NYS CODE SUPPLEMENT, THE 2015 ENERGY CODE AND THE 2016 NYS ENERGY CODE SUPPLEMENT.

BUILDING DESIGN PARAMETERS

1. USE / OCCUPANCY:

2. AGE GROUP:

3. CONSTRUCTION TYPE :

4. SPRINKLER SYSTEM:

5. BUILDING AREA:

6. BUILDING HEIGHT:

7. NUMBER OF STORIES:

8. NUMBER OF MODULES :

9. OCCUPANT LOAD (60) BASED ON [20] SQ FT PER OCCUPANT IN CLASSROOM AREAS.

10. EXTERIOR WALL FIRE RATING :

11. ENERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS

12. MANUFACTURERS DATA PLATE, STATE LABELS AND THIRD PARTY LABELS ARE TO BE LOCATED AS NOTED ON THE FLOOR PLAN.
- EDUCATION
K - 12
VB
N/A
FOR INSTALLATION IN GA, MD & WV, NFPA-13 SPRINKLER SYSTEM IS REQUIRED (SITE INSTALLED)
1,493 SQ FT
< 15 FEET
1
2
N/A

N.C. INSTALLATION INSTRUCTIONS

ATTENTION LOCAL INSPECTIONS DEPARTMENT

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

1. THE INTERCONNECTION BETWEEN BUILDING MODULES AT THE FLOOR AND ROOF SHALL BE SPECIFIED ON THE CROSS SECTION DRAWING ON THE PLAN SET.
2. BUILDING TIE DOWN AND ANCHORAGE REQUIREMENTS ARE AS INDICATED ON FOUNDATION PLAN.
3. ELECTRICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.2, E2.0, E2.1, E2.2, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
4. MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.0, E2.4, E2.5 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
5. PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.1, E1.2, E2.3, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
6. FIRE BLOCKING SHALL BE PROVIDED PER SECTION 716.2 AND 1406.2.4 OF THE N.C. BUILDING CODE (AS APPLICABLE).
7. AIR INFILTRATION AT MODULE MATE LINES SHALL BE LIMITED BY INSTALLING SILL TAPE ALONG THE MATE LINES DURING SET UP AND/OR BY INSTALLING CONTINUOUS SHEATHING ACROSS THE MATE LINE JOINTS AFTER SET UP.

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

CONST. TYPE

OCCUPANCY

FLOOR LL (PSF)

WIND VELOCITY (MPH)

SEISMIC DESIGN CATEGORY

EXTERIOR WALL FIRE RATING (HRS)

PLAN NUMBER

APPROVAL DATE

VB

E

40

180/139

C

0

TMS—11401—406

RADCO

2021 ENERGY CODE COMPLIANCE:

COMPLIANCE PATH: PERFORMANCE / COM CHECK ALTERNATIVE
SEE ATTACHED COM CHECK FORM.
INSULATION MATERIALS: FIBERGLASS INSULATION.
INSULATION VALUES: ROOF : R-60 / EXT. WALLS: R-19 / FLOOR: R-25.
FENESTRATION: U=0.29, SHGC=0.21, VT=0.41.
DOORS: STEEL FRAME, INSULATED METAL DOOR, SWINGING, U-0.150
MECHANICAL SYSTEM: WALL MOUNT HVAC EER=11.00
WATER HEATING SYSTEMS:
WH #1 STORAGE TYPE 6 GALLONS. < 12 KW - NO REQUIREMENT.
NO MINIMUM PERFORMANCE SPECIFIED IN TABLE C404.2 DUE TO INPUT SIZE AND MAX. TEMPERATURE <180°.
ECONOMIZER: NOT REQUIRED. INDIVIDUAL FAN SYSTEM COOLING CAPACITY IS LESS THAN 54,000 BTU/H.
SYSTEMS CONTROLS: THERMOSTATS ARE 7 DAY PROGRAMMABLE.
FAN HORSEPOWER: 0.5 HP EACH HVAC
HVAC DUCTS: R-8 FOR ZONES 1 TO 4, R-12 FOR ZONES 5 TO 8.
PIPE INSULATION: 1" THICK MINIMUM
DAYLIGHT ZONES: N/A
INTERIOR LIGHTING PROVIDED:
(19) RECESSED 2'X4' GRID MOUNT LED LIGHT, 40 W EACH.
EXTERIOR LIGHT PROVIDED:
(4) 15 W LED PORCH LIGHTS W/ PHOTO CELL AND TIME CLOCK.
AIR BARRIERS:
ROOF FINISH: FULLY ADHERED SINGLE PLY ROOF MEMBRANE
EXTERIOR WALLS: 5/8" PLYWOOD STRUCTURAL SHEATHING
FLOOR: 3/4" PLYWOOD

DRAWING INDEX

- 1 OF 9
- 2 OF 9
- 3 OF 9
- 4.1 OF 9
- 4.2 OF 9
- 5 OF 9
- 6 OF 9
- 7 OF 9
- 8 OF 9
- 9 OF 9
- 1 OF 1
- 1 OF 1
- COVER SHEET
- STRUCTURAL LOADS
- NOTES
- LIFE SAFETY PLAN
- FLOOR PLAN
- ELECTRICAL
- MECHANICAL
- ELEVATIONS
- PLUMBING
- CROSS SECTION
- FOUNDATION PLANS
- KIP LOADS FOUND

MARYLAND PLAN NO.: TMS—11401 MD, TMS—11402 MD, TMS—11403 MD, TMS—11404 MD, TMS—11405 MD, TMS—11406 MD
MARYLAND SERIAL NO.: STOCK

TITAN MODULAR SYSTEMS, INC.
162 INDUSTRIAL DRIVE
ALMA, GA 31510 * 912-632-3344

APOLLO MODULAR SYSTEMS, INC.
2162 INDUSTRIAL BLVD.
DOUGLAS, GA 31533 * 912-632-3344

DATE: 3-31-2025

SCALE: N-T-S

CODES: AL CT GA IN LA MD MI MS NY
NJ NC PA SC TX VA WV

LABELS: RADCO

BUILDING DESTINATION: STOCK

TMS-11401-06 AB - 23'-4"X64'-0" - EDUCATION

COVER SHEET

ENGINEER: WALTER E. WOOD, P.E.
SYSVESTER, GA 31791

REVISIONS:

BY:

SHEET:

1 OF 9

ASCE 7-22 STRUCTURAL LOAD LIMITATIONS

FLOOR LIVE LOAD:
A. DEAD LOAD = 12 PSF (AVERAGE).
B. UNIFORM LIVE LOAD = 40 PSF.
C. CONCENTRATED LOAD (ALTERNATE)= 1,000 LB, OVER 30"X30" AREA AT ANY LOCATION.
ROOF LIVE LOAD:
A. DEAD LOAD = 15 PSF (AVERAGE).
B. LIVE LOAD = 46.2 PSF.
ROOF SNOW LOAD:
A. GROUND SNOW LOAD: Pg = 60 PSF
B. FLAT-ROOF SNOW LOAD Pf = 46.2 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 = 46.2 PSF Ps = Pf x Cs
H. Pm = 60 PSF LOW-SLOPE SNOW LOAD Pm = Pg x Is
I. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-22.
WIND LOAD: ASCE 7-22
A. BASIC WIND SPEED (3 SEC GUST) 180 MPH
B. ASD WIND SPEED (3 SEC GUST) 139 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 TO7 DEGREES.
WALL ZONE 5: P = +/- 85.2 psf (Pasd = +/- 51.1 PSF)
WALL ZONE 4: P = +/- 69.0 psf (Pasd = +/- 41.4 PSF)
ROOF ZONE 3: P = - 202.6 psf (Pasd = - 121.59 PSF)
ROOF ZONE 2: P = - 148.6 psf (Pasd = - 89.2 PSF)
ROOF ZONE 1: P = - 112.7 psf (Pasd = - 67.6 PSF)
ROOF ZONE 1': P = - 64.7 psf (Pasd = - 38.8 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.
I. HEIGHT ABOVE GRADE TO BOTTOM SURFACE OF BUILDING (hb) IS ASSUMED TO BE LESS THAN 2 FEET. IF hb IS 2 FEET OR MORE THEN PERIMETER OF FOUNDATION MUST BE PROVIDED WITH A STRUCTURAL ENCLOSURE (DESIGNED BY OTHERS) SUCH THAT THE BOTTOM SURFACES OF THE BUILDING ARE NOT EXPOSED TO WIND LOADING, OR THE BUILDING'S BOTTOM HORIZONTAL SURFACES AND FRAMING MUST BE EVALUATED AND MODIFIED TO MEET THE REQUIREMENTS OF ASCE 7-22 SECTION 30.3.2.1 (DESIGNED BY OTHERS).
TORNADO LOAD:
DESIGN FOR TORNADO LOADS IS NOT REQUIRED FOR RISK CATEGORY II BUILDINGS.
SEISMIC LOAD:
A. RISK CATEGORY : II
B. SEISMIC IMPORTANCE FACTOR Ie = 1.0
C. SITE CLASS D
D. SPECTRAL RESPONSE COEFFICIENTS:
Ss = < 0.282 S1 = < 0.141 Sds = < 0.296 Sd1 = < 0.218
E. SEISMIC DESIGN CATEGORY D
F. SEISMIC FORCE RESISTING SYSTEM A13
G. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE HAS BEEN USED.
H. RESPONSE MODIFICATION FACTOR R = 6.5
I. SEISMIC RESPONSE COEFFICIENT Cs = 0.045
J. DESIGN BASE SHEAR V = 2380 LB
K. FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.
ROOF RAIN LOAD:
A. RAIN INTENSITY: i = 4.0 INCHES / HOUR.

ASCE 7-16 STRUCTURAL LOAD LIMITATIONS

FLOOR LIVE LOAD:
A. DEAD LOAD = 12 PSF (AVERAGE).
B. UNIFORM LIVE LOAD = 40 PSF.
C. CONCENTRATED LOAD (ALTERNATE)= 1,000 LB, OVER 30"X30" AREA AT ANY LOCATION.
ROOF LIVE LOAD:
A. DEAD LOAD = 15 PSF (AVERAGE).
B. LIVE LOAD = 46.2 PSF.
ROOF SNOW LOAD:
A. GROUND SNOW LOAD: Pg = 60 PSF
B. FLAT-ROOF SNOW LOAD Pf = 46.2 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 = 46.2 PSF Ps = Pf x Cs
H. Pm = 60 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) 180 MPH
B. ASD WIND SPEED (3 SEC GUST) 139 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 TO7 DEGREES.
WALL ZONE 5: P = +/- 94.4 psf (Pasd = +/- 56.6 PSF)
WALL ZONE 4: P = +/- 76.5 psf (Pasd = +/- 45.9 PSF)
ROOF ZONE 3: P = - 202.0 psf (Pasd = - 121.2 PSF)
ROOF ZONE 2: Pult = - 148.2 psf (Pasd = - 88.9 PSF)
ROOF ZONE 1: Pult = - 112.4 psf (Pasd = - 67.4 PSF)
ROOF ZONE 1': Pult = - 64.5 psf (Pasd = - 38.7 PSF)
G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
H. BUILDING DESIGN IS BASED ON "ENCLOSED" CLASSIFICATION.
I. BUILDING MEAN ROOF HEIGHT SHALL NOT EXCEED 15 FEET.
SEISMIC LOAD:
A. RISK CATEGORY : II
B. SEISMIC IMPORTANCE FACTOR Ie = 1.0
C. SITE CLASS D
D. SPECTRAL RESPONSE COEFFICIENTS:
Ss = < 0.282 S1 = < 0.141 Sds = < 0.296 Sd1 = < 0.218
E. SEISMIC DESIGN CATEGORY D
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 = 0.045
J. DESIGN BASE SHEAR V = 2380 LB
FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.
ROOF RAIN LOAD:
A. RAIN INTENSITY: i = 4.0 INCHES / HOUR.

GA : COMPLIANCE WITH LOCAL REQUIREMENTS

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

ASCE 7-10 STRUCTURAL LOAD LIMITATIONS

FLOOR LIVE LOAD:
A. 40 PSF
B. 1000 LB CONCENTRATED LOAD OVER 30"X30" AREA AT ANY LOCATION
ROOF LIVE LOAD:
A. 46.2 PSF
ROOF SNOW LOAD:
A. Pg = 60 PSF GROUND SNOW LOAD
B. Pf = 46.2 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 = 46.2 PSF SLOPED ROOF SNOW LOAD Ps = Pf x Cs
H. Pm = 60 PSF LOW-SLOPE SNOW LOAD Pm = Pg x Is
I. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-10.
WIND LOAD: ASCE 7-10
A. 180 MPH Vult ULTIMATE WIND SPEED
B. 140 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 = +/- 94.4 psf (Pasd = +/- 56.6 PSF)
WALL ZONE 4: Pult = +/- 76.5 psf (Pasd = +/- 45.9 PSF)
ROOF ZONE 3: Pult = - 178.1 psf (Pasd = - 106.9 PSF)
ROOF ZONE 2: Pult = - 118.3 psf (Pasd = - 71.0 PSF)
ROOF ZONE 1: Pult = - 70.5 psf (Pasd = - 42.3 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 = < 0.282 S1 = < 0.141 Sds = < 0.296 Sd1 = < 0.218
E. D 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 = 0.045 SEISMIC RESPONSE COEFFICIENT
J. V = 2,380 LB DESIGN BASE SHEAR
FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

WINDOW AND DOOR SPECIFICATIONS

- DOUBLE PANE / INSULATED WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U-FACTOR VALUE AND SOLAR HEAT GAIN COEFFICIENT (SHGC).
- THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.2 CFM PER SQUARE FOOT OF WINDOW AREA.
- THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.2 CFM PER SQUARE FOOT OF DOOR AREA.

SPECIAL CONDITIONS AND/OR LIMITATIONS

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

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.

STATE OF NORTH CAROLINA PACKAGE REFERENCES:

- INDEX - C1.0 - C1.1
- OUTRIGGER FRAME AND FLOOR DESIGN - C3.0, C4.0 & C5.2
- MATELINE COLUMNS DESIGN C27.7
- MATELINE RIDGE BEAM DESIGN C29.1 & C29.3.
- FOUNDATION OVERTURNING / SLIDING TIE DOWN PAGES D24.6-D24.9.
- FOUNDATION LONGITUDINAL TIE DOWN PAGES D25.0-D25.1.
- FOUNDATION MATE LINE COLUMN TIE DOWN PAGES D16.0-16.1.

STATE OF MARYLAND PACKAGE REFERENCES:

- INDEX - C0.0 - C0.1
- OUTRIGGER FRAME AND FLOOR DESIGN - C3.0, C4.0 & C5.2
- MATELINE COLUMNS DESIGN C27.7
- MATELINE RIDGE BEAM DESIGN C29.3.
- FOUNDATION OVERTURNING / SLIDING TIE DOWN PAGES D24.6-D24.9.
- FOUNDATION LONGITUDINAL TIE DOWN PAGES D25.0-D25.1.
- FOUNDATION MATE LINE COLUMN TIE DOWN PAGES D16.0-16.1.

TEXAS - EXT. DOOR SPECIFICATIONS

- SOLID.
- METAL WITH FOAM CORE
- Uo - 0.193.
- SWINGING.
- MAX ALLOWABLE AIR LEAKAGE RATE 0.2 CFM (PER SQUARE FOOT OF DOOR AREA).

TEXAS - WINDOW SPECIFICATIONS

- METAL FRAME WITHOUT THERMAL BREAK
- OPERABLE
- DOUBLE PANE TINTED GLASS
- Uo - 0.45
- MAX ALLOWABLE AIR LEAKAGE RATE 0.2 CFM (PER SQUARE FOOT OF WINDOW AREA).

TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE
ALMA, GA 31510 * 912-632-3344

APOLLO MODULAR SYSTEMS, INC.

2162 INDUSTRIAL BLVD.
DOUGLAS, GA 31533 * 912-632-3344

DATE: 3-31-2025	ENGINEER: WALTER E. WOOD, P.E.	BY:
SCALE: N-T-S	SYVESTER, GA 31791	
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV	REVISIONS:	SHEET:
LABELS: RADCO		
BUILDING DESTINATION: STOCK		2 OF 9
TMS-11401-06 AB - 23'-4"x64'-0" - EDUCATION		
COVER SHEET	PLAN NO. 11401-06 AB	

GENERAL NOTES:

- ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
- ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
- ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
- SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTION REQUIREMENTS.
- PORTABLE FIRE EXTINGUISHERS PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
- PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
- WHEN LOW SIDES OF ROOF PROVIDE LESS THAN 6 INCHES OF OVERHANG, GUTTERS AND DOWNSPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
- STRAPPING MUST BE TESTED AND / OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
- STRUCTURAL DETAILS NOT INCLUDED IN THIS PLAN SET ARE TO BE CONSTRUCTED ACCORDING TO THE MANUFACTURER'S BUILDING SYSTEM MANUAL.
- IN WIND-BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
- THIS STRUCTURE CAN NOT BE LOCATED ON THE SEAWARD SIDE OF THE COASTAL CONSTRUCTION CONTROL LINE.
- ALL CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THESE DRAWINGS.
- THESE PLANS INCLUDE DESIGN FOR THE FACTORY BUILT PORTION OF THE MODULAR STRUCTURE AND PORTIONS OF THE SITE BUILT CONSTRUCTION. THESE PLANS AND DESIGN PLANS FOR ALL ELEMENTS DESIGNATED TO BE DESIGNED BY OTHERS AND/OR SITE INSTALLED MUST BE SUBMITTED TO AND REVIEWED BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (DESIGNER OF RECORD) FOR COMPATIBILITY WITH THE DESIGN OF THE OVERALL BUILDING PROJECT AS REQUIRED BY THE APPLICABLE CODES AND LAWS.
- ALL PARTIES RESPONSIBLE FOR DESIGN WORK SHALL BE QUALIFIED AND LICENSED AS REQUIRED BY THE JURISDICTIONS HAVING AUTHORITY OR SHALL RETAIN SUCH QUALIFIED AND LICENSED ENTITIES TO PERFORM SUCH WORK.
- TRANSPORTATION AND ERECTION OF THIS BUILDING IS DESIGNED BY OTHERS. DESIGNER OF THESE PLANS HAS NOT EVALUATED ANY TRANSPORTATION AND/OR LIFTING ELEMENTS SHOWN IN THESE PLANS, THESE ITEMS MUST BE EVALUATED BY TRANSPORTATION AND ERECTION DESIGNER FOR SUITABILITY.

PLUMBING NOTES:

- THE USE OF THIS BUILDING WITHOUT THE REQUIRED PLUMBING FACILITIES IS SUBJECT TO THE APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
- CUSTOMER ASSUMES ALL RESPONSIBILITY FOR REQUIRED PLUMBING FACILITIES WHEN NOT SHOWN ON THE PLANS.
- TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
- RESTROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES ABOVE FINISHED FLOOR (AFF). FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UP ONTO THE WALLS A MINIMUM OF 6 INCHES.
- THIS BUILDING SHALL BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
- PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES
- WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR, T&P RELIEF VALVE WITH DRAIN TO WITHIN 2 TO 6 INCHES ABOVE THE SAFETY 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 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURES LIMITATION AND INSTRUCTIONS.
- WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH VALVE TYPE UNLESS OTHERWISE SPECIFIED.
- BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
- SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.8°C).
- 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.
- WATER, SOIL AND WASTE PIPES IN UNCONDITIONED SPACE SHALL BE INSULATED AN PROTECTED FROM FREEZING.
- THE FIRST 8 FEET OF HOT WATER PIPING FROM THE WATER HEATER SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH / H x FT x F.
- WATER HEATER SHALL BE PLUMBED WITH HEAT TRAPS ON SUPPLY AND DISCHARGE PIPING CONNECTED TO THE HEATER.
- THE WATER HEATER SHALL HAVE CONTROLS TO ALLOW A SET POINT OF 90° F. THE OUTLET TEMPERATURE AT LAVATORIES SHALL BE LIMITED TO 110°F.
- ALL PLUMBING PIPES, FITTINGS AND FIXTURES MUST BE LEAD FREE.

SITE INSTALLED ITEMS

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO THE LOCAL JURISDICTION APPROVAL.

- THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
- RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
- PORTABLE FIRE EXTINGUISHER(S).
- BUILDING DRAINS, CLEANOUTS, AND HOOK UP TO PLUMBING SYSTEM.
- ELECTRICAL SERVICE HOOK UP (INCLUDING FEEDERS) TO THE BUILDING.
- GLAZED OPENING PROTECTION (SEE GENERAL NOTES)
- GUTTERS AND DOWNSPOUTS
- PRODUCT APPROVED STORM PROTECTION (IMPACT RESISTANT SHUTTERS) SHALL BE REQUIRED FOR GLAZED AND / OR DOOR OPENINGS AND INSTALLED ON SITE BY OTHERS.
- HANDICAP TACTILE SIGNAGE
- CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINES.
- STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNIT).

ACCESSIBILITY NOTES:

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOMS FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATION THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
- ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.
- 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.
- CONTROLS, DISPENSER, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
- WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER.
- ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NO EXCEED 5 POUNDS FOR ALL SLIDING, FOLDING AND INTERIOR HINGED DOORS.
- FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 INCH MAXIMUM. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCHES WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
- ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES, MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 AND 41 INCHES ABOVE THE FLOOR AND THE CENTERLINE BETWEEN 39 AND 41 INCHES FROM THE REAR WALL.
- ACCESSIBLE URINALS SHALL BE STALL TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
- ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR, KNEE CLEARANCE OF AT LEAST 27 INCHES HEIGHT MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE AND 9 INCHES HIGH MINIMUM WITH A MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE. THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.
- HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE ACCESSIBLE LAVATORIES AND SINKS.
- ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (IE LEVER OPERATED) PUSH TYPE OR ELECTRONICALLY CONTROLLED.
- MIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN THE TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.
- GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.25 INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1.5 INCHES.
- 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.
- 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.
- TOILET STALL DOORS SHALL BE SELF-CLOSING TYPE.
- A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVATORIES.

ELECTRICAL NOTES:

- ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATED ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
- WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "STORAGE AREA" AS DEFINED BY NEC 410-8(a).
- WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE THE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTION MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
- PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110-9 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
- THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
- ALL CIRCUITS CROSSING OVER THE MODULE MATE LINE SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES OR CABLE CONNECTORS.
- ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED. THE RECEPTACLE ITSELF SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AND BE TAMPER RESISTANT, AS PER NEC.
- EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
- THE LUG RATING FOR THE ELECTRICAL PANELS IS 75 DEGREE, UNLESS OTHERWISE NOTED ON THE ELECTRICAL PLAN.
- ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS SHALL BE WIRED WITH AC CABLE, MC CABLE OR METAL CONDUIT AND SHALL HAVE AN INSULATED COPPER GROUND WIRE. IN ADDITION, THE CABLE SHEATHING SHALL BE LISTED AND IDENTIFIED FOR GROUNDING USE. THE CABLE SHEATHING AND METAL CONDUIT SHALL BE INSTALLED SO AS TO PROVIDE A SECONDARY GROUND PATH.
- 15 AND 20 AMP RECEPTACLES SHALL BE LISTED AND LABELED AS TAMPER RESISTANT.
- IF REQUIRED OCCUPANT SENSORS FOR LIGHTING ARE NOT FACTORY INSTALLED THEN THEY SHALL BE SITE INSTALLED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
- IF OCCUPANT SENSORS FOR CONTROL OF 50% OF THE RECEPTACLES ARE NOT FACTORY INSTALLED THEN THEY SHALL BE SITE INSTALLED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.

MECHANICAL NOTES:

- ALL SUPPLY AIR REGISTERS SHALL BE 12 INCHES X 12 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 VENTILATED ATTICS SHALL HAVE MINIMUM R-8 INSULATION.
- INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND / OR AS NOTED ON FLOOR PLAN (FOR NON-FIRE RATED DOORS).
- HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES PROVIDING 10 CFM PER PERSON AND 0.12 CFM PER SQUARE FOOT OF BUILDING AREA.
- VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
- EXHAUST FANS SHALL PROVIDE A MINIMUM OF 70 CFM FOR EACH WATER CLOSET AND URINAL.
- EXHAUST FANS SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL AIR INTAKE.
- THERMOSTATS ARE TO BE PROGRAMMABLE.
- HEATING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN TEMPERATURES ABOVE AN ADJUSTABLE HEATING SETPOINT AT LEAST 10 ° F BELOW THE OCCUPIED HEATING SETPOINT. COOLING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE MECHANICAL COOLING SYSTEM AS REQUIRED TO MAINTAIN TEMPERATURES BELOW AN ADJUSTABLE COOLING SETPOINT AT LEAST 5° F ABOVE THE OCCUPIED COOLING SET POINT OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.
- HVAC SYSTEMS MUST BE BALANCED IN ACCORDANCE WITH ACCEPTED PRACTICE.

MARYLAND NOTES:

- REFER TO STATE PACKAGE PAGE NO. C32.0 FOR REQUIRED DUCT PROTECTION AT CONNECTION TO HVAC UNIT.
- HVAC SYSTEM SHALL COMPLY WITH NFPA 90B WHEN BUILDING VOLUME DOES NOT EXCEED 25,000 CUBIC FEET. OTHERWISE HVAC SYSTEM SHALL COMPLY WITH NFPA 90A.
- THESE PLANS ARE PREPARED TO FACILITATE CONSTRUCTION OF THE PRE-ENGINEERED FACTORY BUILT MODULAR BUILDING, AND THEY INCLUDE MINIMUM ON-SITE SUPPORT AND TIE DOWN REQUIREMENTS FOR THE MODULAR BUILDING. THE PROJECT ARCHITECT OF RECORD IS RESPONSIBLE FOR INCORPORATION AND COORDINATION OF THESE PLANS INTO THE OVERALL PROJECT DESIGN.
- TO LOCAL BUILDER AND/OR SITE DEVELOPER: ALL SITE WORK INCLUDING THE LOCATION OF THE BUILDING, IS REQUIRED TO BE REVIEWED AND APPROVED BY A MD. REG. ARCH. OR ENG. TO VERIFY CODE COMPLIANCE INCLUDING BUT NOT LIMITED TO FIRE RESISTANCE RATINGS FOR EXTERIOR PROTECTION. MEANS OF EGRESS, HEIGHT AND AREA LIMITATIONS, OTHER PERTINENT SITE RELATED MATTERS. DOCUMENTS RLATED TO SITE WORK, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERNMENT AGENCY FOR REVIEW AND APPROVAL.
- THE INITIAL INSTALLATION OF THIS BUILDING IS NOT IN THE STATE OF MARYLAND, THEREFORE A MD. SITE PLAN CANNOT BE PROVIDED. IF THIS BUILDING IS TO BE INSTALLED IN THE FUTURE, A SITE PLAN SHALL BE ATTACHED TO THE PERMIT APPLICATION FOR THE BUILDING.
- 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.
- 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.

LOUISIANA NOTES:

- EXTERIOR SITE RELATED ITEMS SHALL BE ADDRESSED BY THE LOCAL ENGINEER AND/OR CONTRACTOR, AND ARE OUT OF THE LIMITATIONS OF THIS APPROVAL. SUCH ITEMS ARE INCLUDING, BUT NOT LIMITED TO: RAMPS, SITE PLAN, PARKING SPACES, LOCATION OF BUILDING WITH RESPECT TO PROPERTY LINES, EXTERIOR LIGHTING, ACCESS TO PUBLIC WAYS, STAIR HANDRAILS AND SITE RELATED UTILITIES.
- THIS APPROVAL IS FOR THE BUILDING DESIGN AND CONSTRUCTION ONLY.
- ALL ACCESSIBILITY RELATED ITEMS LISTED ARE BASED ON THE 28 CFR PART 36, OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN.
- THE CENTERLINE OF ACCESSIBLE TOILETS SHALL BE 18 INCHES FROM THE NEAREST ADJACENT WALL.
- LAVATORIES SHALL MEET THE CRITERIA LISTED IN ACESIBILITY NOTE #10
- HOT WATER DRAIN PIPES SHALL BE INSULATED OR COVERED.
- FAUCETS SHALL MEET THE CRITERIA LISTED IN ACCESSIBILITY NOTE #12.
- MIRRORS SHALL MEET THE CRITERIA LISTED IN ACCESSIBILITY NOTE #13.
- TOILET ROOM GRAB BARS SHALL COMPLY WITH ACCESSIBILITY NOTE #8.
- A 60 INCH DIAMETER CLEAR FLOOR SPACE SHALL BE PROVIDED WITHIN EACH OCCUPIABLE ROOM FOR TURNING.
- ALL DOORS MUST PROVIDE A MINIMUM 32 INCH CLEAR WIDTH.
- MANUEVERING CLEARANCES AT DOORS SHALL COMPLY WITH FIG. 404.2.4.1.
- THRESHOLDS SHALL COMPLY WITH ACCESSIBILITY NOTE #7.
- CHANGES IN FLOOR ELEVATION SHALL COMPLY WITH ACCESSIBILITY NOTE # 7.
- SEE NOTE #1 REGARDING RAMPS AND STAIRS.
- PERMANENT SIGNAGE SHALL COMPLY WITH ADA 703.1.
 - SIGNAGE, WHERE PROVIDED FOR PERMANENT ROOMS AND SPACES SHALL PROVIDE:
 - BRAILLE AND RAISED LETTERING AS PER 703.3
 - LETTER / SYMBOL TO BACKGROUNND COLOR CONTRAST PER 703.5.1
 - A 60 INCH HEIGHT FROM FLOOR TO CENTERLINE OF SIGN
 - OTHER PERMANENT SIGNS WHICH PROVIDE DIRECTION TO OR INFORMATION ABOUT FUNCTIONAL SPACES OF THE BUILDING SHALL PROVIDE:
 - LETTER CHARACTER WIDTH TO HEIGHT PROPORTION PER 703.5.4
 - CHARACTER HEIGHT PROPORTION BASED ON HEIGHT OF SIGN FROM FINISH FLOOR PER 703.5.5
 - LETTER / SYMBOL TO BACKGROUNND COLOR CONTRAST PER 703.5.1
- LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL DEVICE OR SPECIAL KNOWLEDGE TO OPEN.
- DOOR SHALL BE CAPABLE OF BEING OPENED WITH ONLY ONE RELEASING OPERATION. KNOBS W/ INDEPENDANT SLIDE BOLTS ARE NOT ACCEPTABLE.
- INTERIOR WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD OF 0-200 AND A SMOKE DEVELOPED RATING OF 0 - 450.
- FIRE EXTINGUISHERS, INSTALLED ON SITE BY OTHERS, SHALL COMPLY WITH NFPA 10.

WINDOW AND DOOR SPECIFICATIONS

- DOUBLE PANE / INSULATED WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U-FACTOR VALUE AND SOLAR HEAT GAIN COEFFICIENT (SHGC).
- THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.2 CFM PER SQUARE FOOT OF WINDOW AREA.
- THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.2 CFM PER SQUARE FOOT OF DOOR AREA.

LIMITATIONS OF APPROVAL

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

TEXAS NOTES:

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

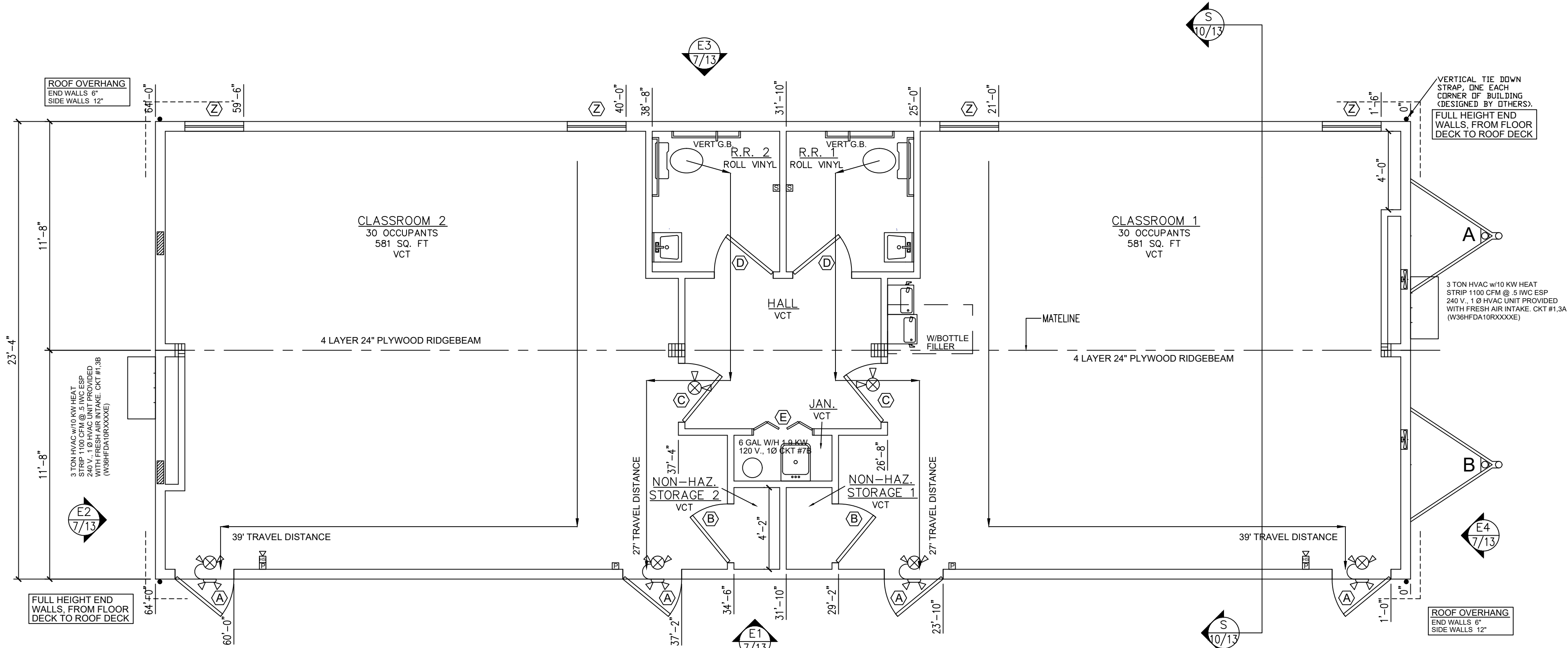
TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE
ALMA, GA 31510 • 912-632-3344

APOLLO MODULAR SYSTEMS, INC.

2162 INDUSTRIAL BLVD.
DOUGLAS, GA 31533 • 912-632-3344

DATE: 3-31-2025	ENGINEER: WALTER E. WOOD, P.E. SYSVESTER, GA 31791	BY:
SCALE: N-T-S	REVISIONS:	
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV		
LABELS: RADCO		
BUILDING DESTINATION: STOCK	SHEET:	
TMS-11401-06 AB - 23'-4"x64'-0" - EDUCATION		
NOTES	PLAN NO. 11401-06 AB	3 OF 9



LIFE SAFETY PLAN
1/4"=1'-0"

LIFE SAFETY PLAN SUMMARY

- USE / OCCUPANCY: CLASSROOMS / EDUCATIONAL
- CONSTRUCTION TYPE: VB
- SPRINKLER SYSTEM: N/A. FOR INSTALLATION IN GA, MD* & WV A NFPA-13 COMPLIANT SPRINKLER SYSTEM IS REQUIRED (SITE INSTALLED).
- BUILDING AREA: 1,493 SQ FT
- BUILDING HEIGHT: < 15 FEET
- NUMBER OF STORIES: 1
- NUMBER OF MODULES: 2
- OCCUPANT LOAD (60) BASED ON [20] SQ FT PER OCCUPANT IN CLASSROOMS
- CORRIDOR RATING: 0 HOUR
- CORRIDORS ARE CONSTRUCTED AS SMOKE PARTITIONS IN COMPLIANCE WITH NFPA 101 8.4.
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE FOUND: 39 FEET
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE ALLOWED: 250 FEET
- NUMBER OF EXIT DOORS REQUIRED: 2
- NUMBER OF EXIT DOORS PROVIDED: 4
- REQUIRED WIDTH OF EXITS - (60x0.2") = 12" / PROVIDED - 144".
- ALL CLASSROOMS PROVIDED WITH AND LIGHTED EXIT SIGNS.

* FIRE SPRINKLER SYSTEM WILL BE INSTALLED COMPLETELY ON SITE. GENERAL CONTRACTOR SHALL SUBMIT FIRE SPRINKLER SYSTEM DESIGN TO MARYLAND OFFICE OF STATE FIRE MARSHAL OR AHJ FOR REVIEW AND APPROVAL.

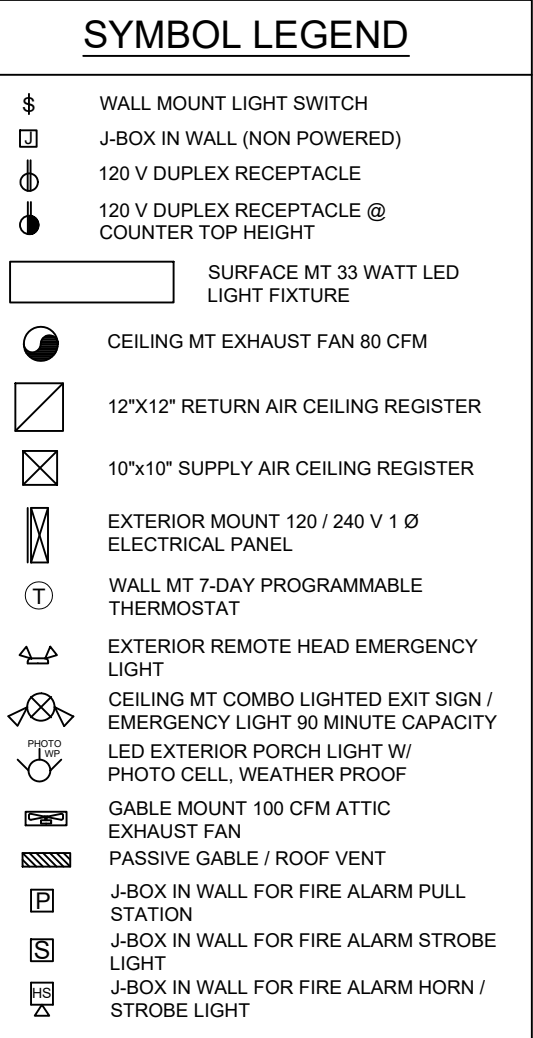
DOOR SCHEDULE		WINDOW SCHEDULE	
A	3680 STEEL DOOR W/6"X30" SAFETY GLASS VIEW BLOCK - STEEL JAMB - CLOSER - PANIC HARDWARE	Z	3662 - VERTICAL SLIDER DP 50 IMPACT RESISTANT INSULATED LOW-E TINTED GLASS WHITE VINYL FRAME - EGRESS - VINYL MINI BLINDS
B	3680 - SOLID CORE - FLUSH DR. STEEL FRAME TIMELY OR REDI-FRAME W/ LEVER - KEYED STANDARD BRONZE FINISH - IMP. OAK		
C	3680 - SOLID CORE - FLUSH DR. STEEL FRAME TIMELY OR REDI-FRAME W/ LEVER - PASSAGE STANDARD BRONZE FINISH - IMP. OAK		
D	3680 - SOLID CORE - FLUSH DR. STEEL FRAME TIMELY OR REDI-FRAME W/ LEVER - PRIVACY STANDARD BRONZE FINISH - IMP. OAK		
E	3680 - RAISED PANEL BI-FOLD DOOR		

EXTERIOR DOOR AND WINDOWS TO COMPLY WITH THE FOLLOWING STANDARDS:AAMA/WDMA/CSA101/1.S.2/ A440 OR TESTED PER ASTM E330 AND BE LISTED AND LABELED AS COMPLIANT WITH NFRC 100, 300 & 400.

TITAN MODULAR SYSTEMS, INC.
162 INDUSTRIAL DRIVE
ALMA, GA 31510 * 912-632-3344

APOLLO MODULAR SYSTEMS, INC.
2162 INDUSTRIAL BLVD.
DOUGLAS, GA 31533 * 912-632-3344

DATE: 3-31-2025		ENGINEER: WALTER E. WOOD, P. E. SYSVESTER, GA 31791		BY:
SCALE: 1/4" = 1'-0"		REVIEWS:		
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV				
LABELS: RADCO				SHEET: 4.1 OF 9
BUILDING DESTINATION: STOCK				
TMS-11401-06 AB - 23'-4"x64'-0" - EDUCATION				
LIFE SAFETY PLAN		PLAN NO. 11401-06 AB		



INDICATES COLUMN DESCRIPTION LOCATIONS (EACH HALF)

INDICATES THE REQUIREMENT FOR A BEARING STIFFENER

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

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

T1 = SIMPSON LSTA12 STEEL STRAP W/ (5) 10d NAILS AT EACH END.
T2 = SIMPSON CS14 COIL STRAP W/ (17) 0.148"Ø × 2 1/4" NAILS INTO RIDGEBEAM.
EXTEND BELOW FLOOR FOR SITE CONNECTION TO FOUNDATION. HOLD DOWN IS
DESIGNED BY OTHERS.
T4 = SIMPSON CS14 COIL STRAP W/ (17) 0.148"Ø × 2 1/4" NAILS INTO STUDS.
EXTEND BELOW FLOOR FOR SITE CONNECTION TO FOUNDATION. HOLD DOWN IS
DESIGNED BY OTHERS.

DOOR SCHEDULE		WINDOW SCHEDULE	
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E	3680 - RAISED PANEL BI-FOLD DOOR		

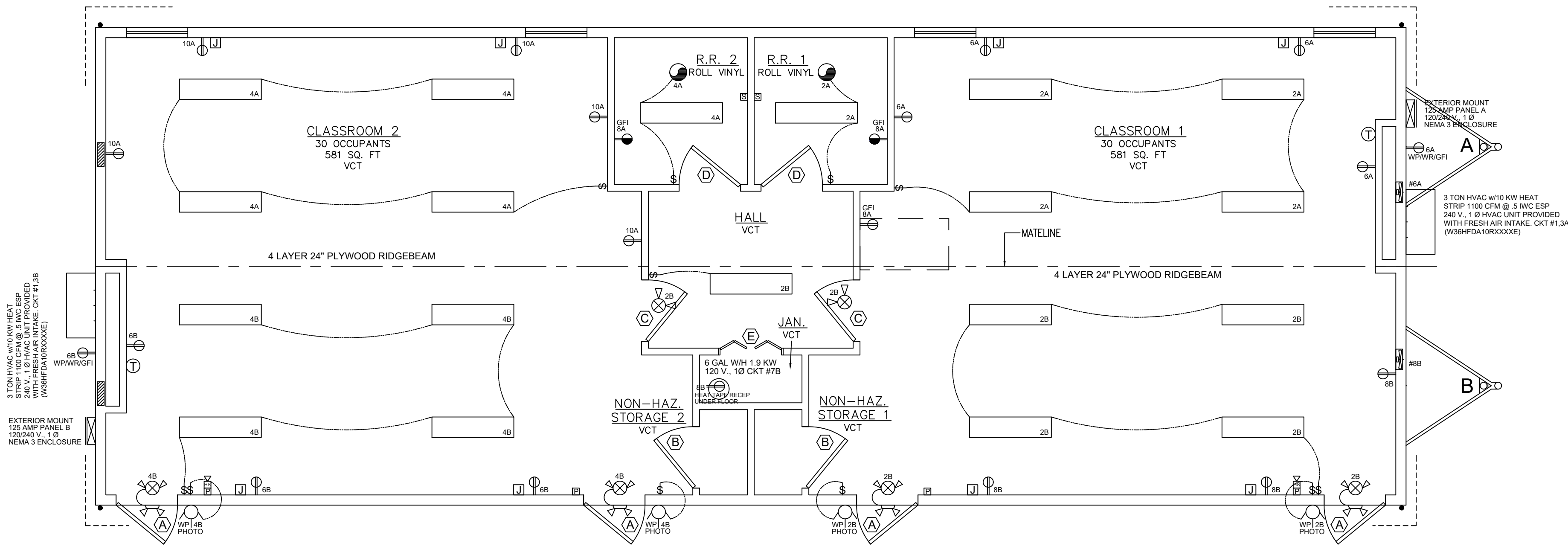
EXTERIOR DOOR AND WINDOWS TO COMPLY WITH THE FOLLOWING STANDARDS: AAMA/WDMA/CSA 101/I.S.2/ A440 OR TESTED PER ASTM E330 AND BE LISTED AND LABELED AS COMPLIANT WITH NFRC 100, 300 & 400.

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DOUGLAS, GA 31533 * 912-632-3344



ELECTRICAL PLAN
3/8"=1'-0"

ELECTRICAL SIZING	120/240V	SGL PHASE	INSTALL	125
PANEL A				AMP PANEL
ID	QTY	UNITS	KW	SUB-TOTAL
3 TON HVAC	1	EACH	13.9	13.90
WATER HEATER	0	EACH	1.9	0.00
LIGHTS	746	SQ FT	0.003	2.80
RECEPTACLES	13	EACH	0.18	2.34
EXHAUST FANS	3	EACH	0.4	1.20
DEDICATED CKTS.	0	EACH	1.9	0.00
		TOTAL =		20.24
		TOTAL =	84.3	AMPS

ELECTRICAL PANEL SCHEDULE A			
CIRCUIT ID	DESCRIPTION	BREAKER	WIRE
1, 3 A	HVAC - 3 TON	60A (2P) HACR	6-6-10 MC
2, 4 A	LIGHTS / FANS	20A	12
6, 8, 10 A	RECEPTS / FAN	20A	12

ELECTRICAL SIZING	120/240V	SGL PHASE	INSTALL	125
PANEL B				AMP PANEL
ID	QTY	UNITS	KW	SUB-TOTAL
3 TON HVAC	1	EACH	13.9	13.90
WATER HEATER	1	EACH	1.9	2.38
LIGHTS	746	SQ FT	0.003	2.80
RECEPTACLES	8	EACH	0.18	1.44
EXHAUST FANS	1	EACH	0.4	0.40
DEDICATED CKTS.	0	EACH	1.9	0.00
		TOTAL =		20.91
		TOTAL =	87.1	AMPS

ELECTRICAL PANEL SCHEDULE B			
CIRCUIT ID	DESCRIPTION	BREAKER	WIRE
1, 3 B	HVAC - 3 TON	60A (2P) HACR	6-6-10 MC
2, 4 B	LIGHTS	20A	12
6, 8 B	RECEPTS / FAN	20A	12
7 B	WATER HEATER - 6 GAL	20A	12

NM CABLE
ALL WIRING IS COPPER

SYMBOL LEGEND

- WALL MOUNT LIGHT SWITCH
- J-BOX IN WALL (NON POWERED)
- 120 V DUPLEX RECEPTACLE
- 120 V DUPLEX RECEPTACLE @ COUNTER TOP HEIGHT
- SURFACE MT 33 WATT LED LIGHT FIXTURE
- CEILING MT EXHAUST FAN 80 CFM
- 12"x12" RETURN AIR CEILING REGISTER
- 10"x10" SUPPLY AIR CEILING REGISTER
- EXTERIOR 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 LED EXTERIOR PORCH LIGHT W/ PHOTO CELL, WEATHER PROOF
- GABLE MOUNT 100 CFM ATTIC EXHAUST FAN
- PASSIVE GABLE / ROOF VENT
- J-BOX IN WALL FOR FIRE ALARM PULL STATION
- J-BOX IN WALL FOR FIRE ALARM STROBE LIGHT
- J-BOX IN WALL FOR FIRE ALARM HORN / STROBE LIGHT

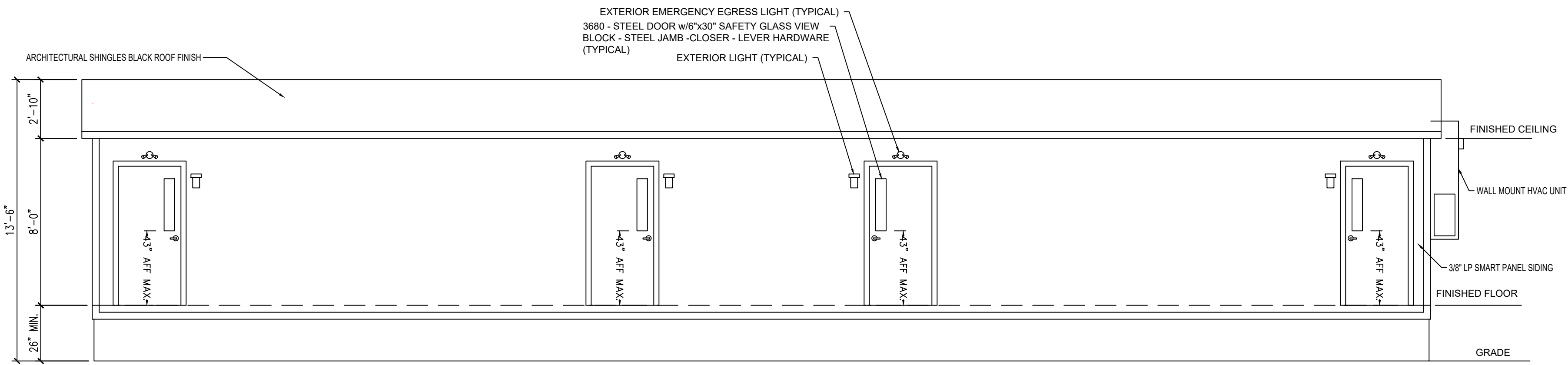
TITAN MODULAR SYSTEMS, INC.

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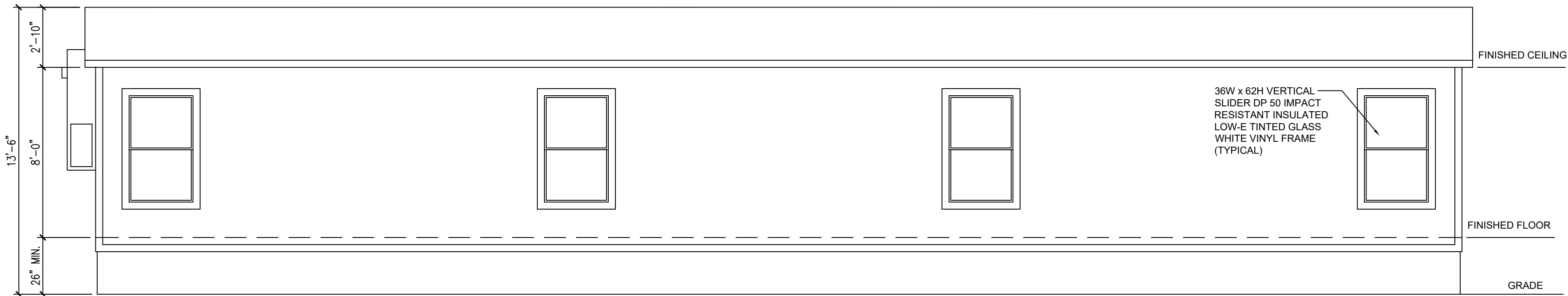
APOLLO MODULAR SYSTEMS, INC.

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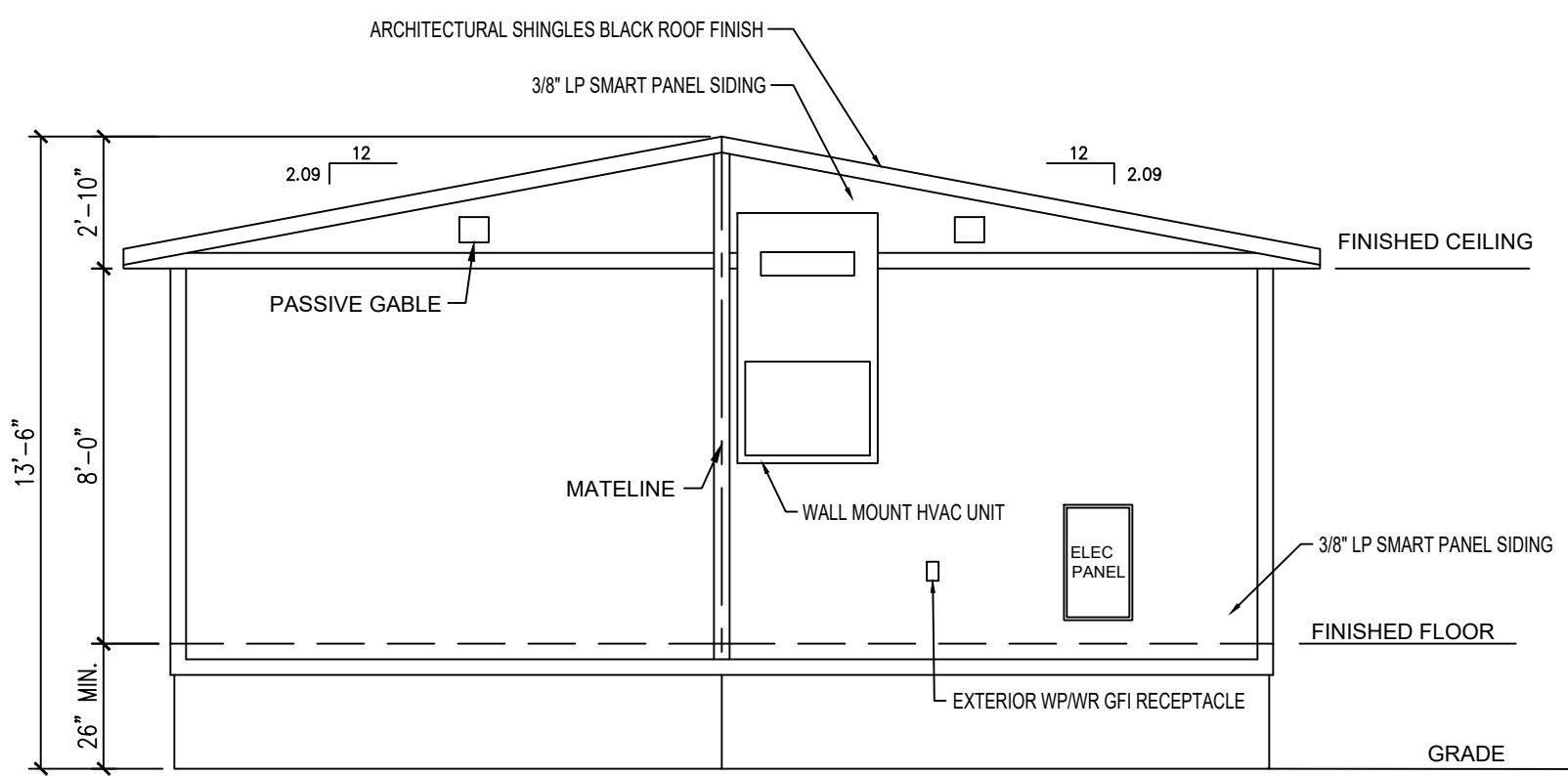
DATE: 3-31-2025	ENGINEER: WALTER E. WOOD, P.E.	
SCALE: 1/4" = 1'-0"	SYSVESTER, GA 31791	
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV	REVISIONS:	BY:
LABELS: RADCO		
BUILDING DESTINATION: STOCK		SHEET:
TMS-11401-06 AB - 23'-4"x64'-0" - EDUCATION		
ELECTRICAL PLAN	PLAN NO. 11401-06 AB	5 OF 9



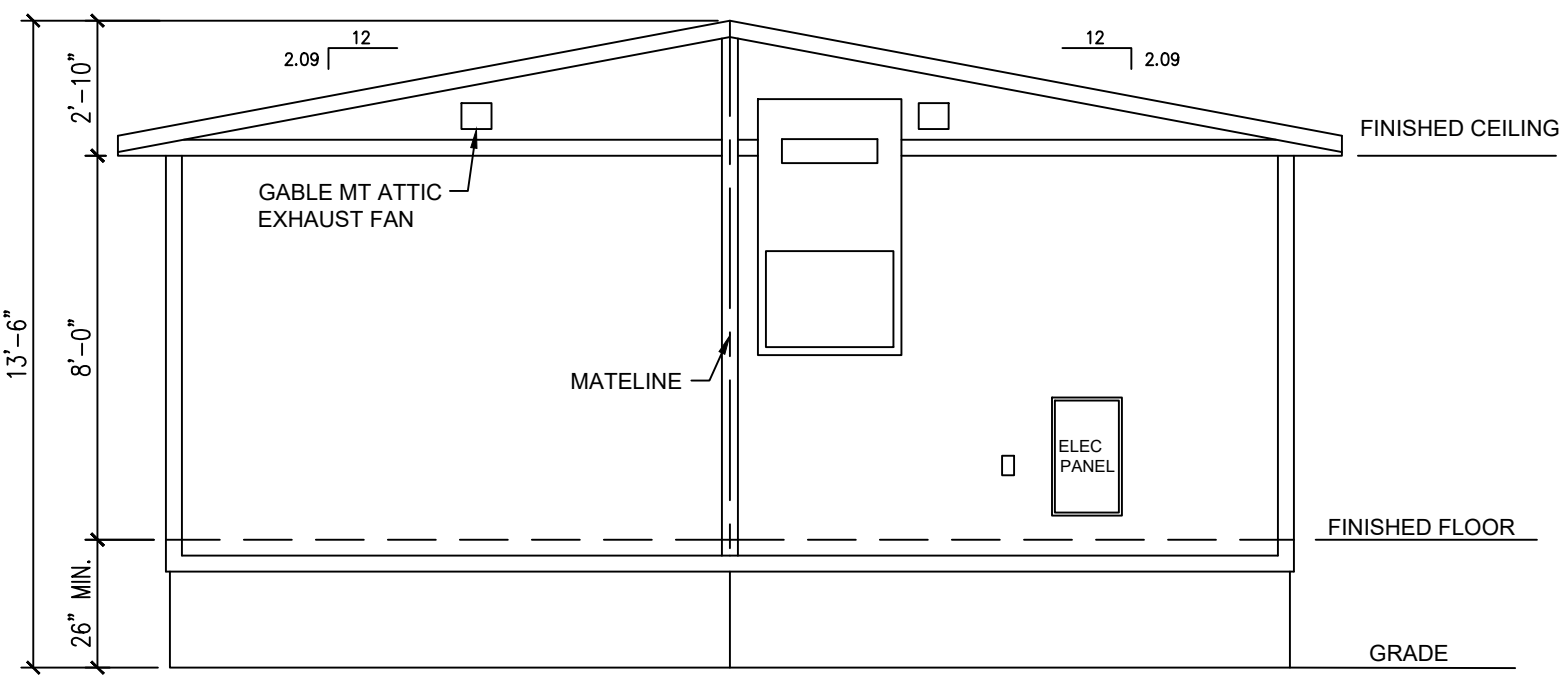
E1 - MOD B SIDE ELEVATION
1/4" = 1'-0"



E3 - MOD A SIDE ELEVATION
1/4" = 1'-0"

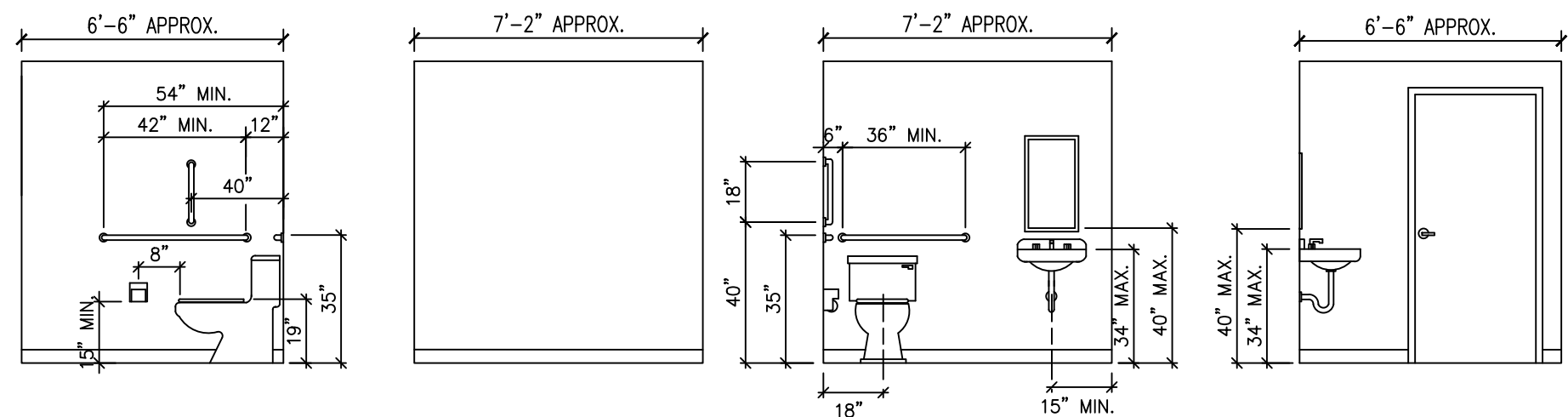


E2 - REAR END ELEVATION
1/4" = 1'-0"

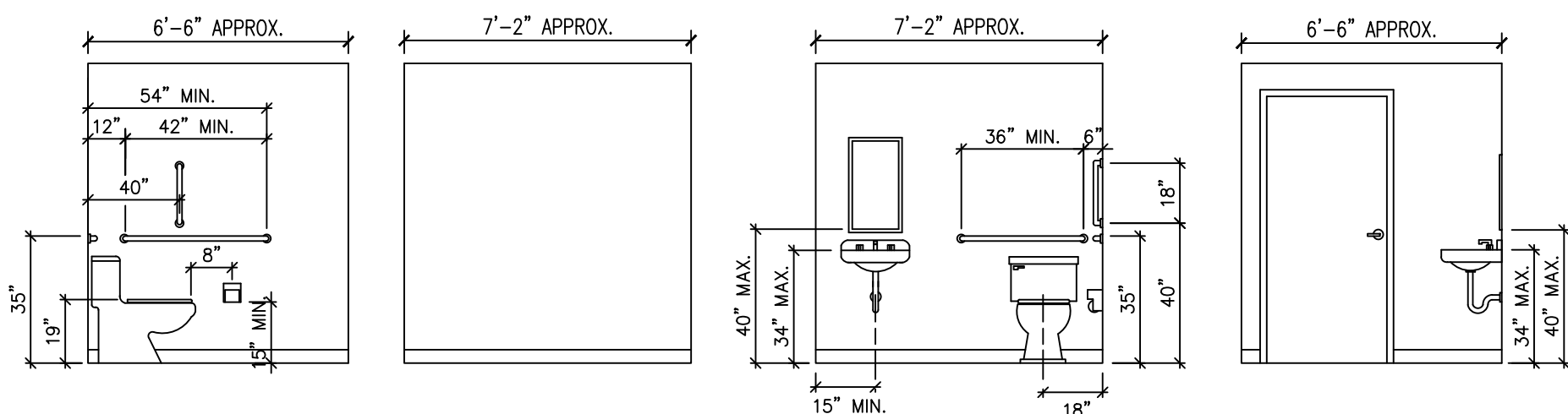


E4 - HITCH END ELEVATION
1/4" = 1'-0"

ELEVATIONS
1/4" = 1'-0"

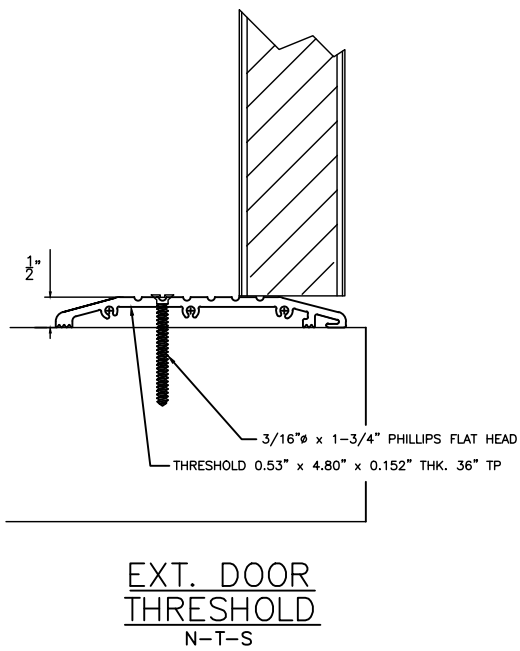
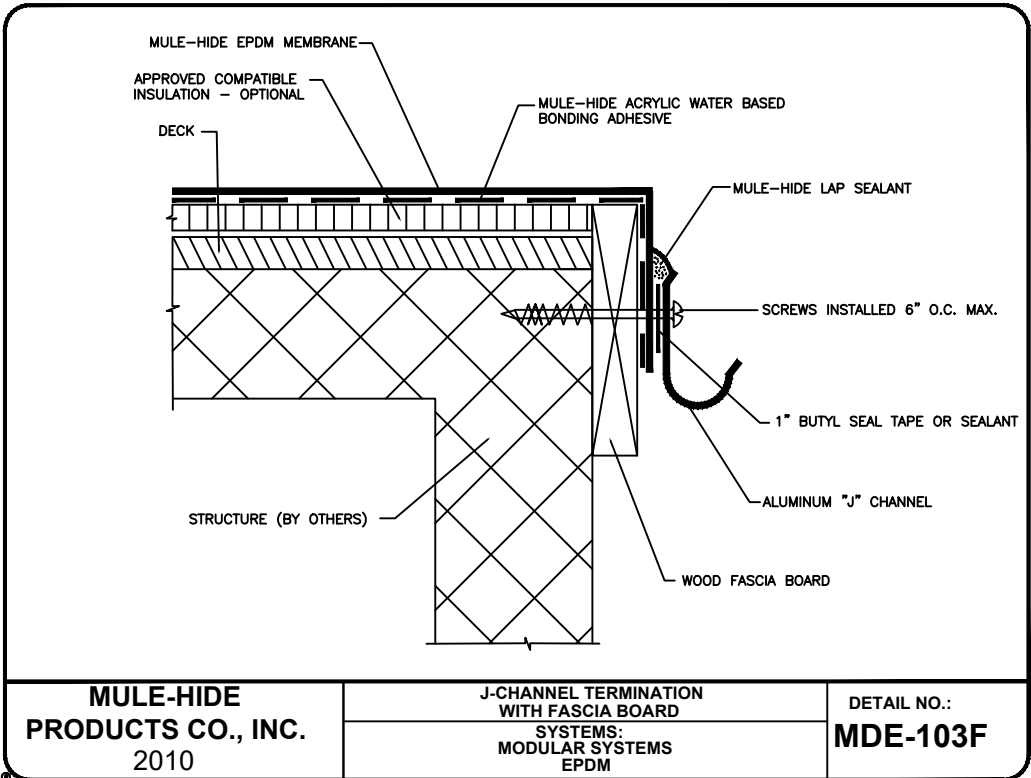


RESTROOM 1 ELEVATIONS
SCALE: 1/4"=1'-0"



RESTROOM 2 ELEVATIONS
SCALE: 1/4"=1'-0"

- TYPICAL ELEVATION NOTES:
1. ALL SITE INSTALLED ITEMS ARE SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
 2. ACCESSIBLE RAMP(S), STAIR(S), AND HANDRAILS ARE DESIGNED BY OTHERS AND SITE INSTALLED.
 3. FOUNDATION ENCLOSURE (IF PROVIDED) IS DESIGNED BY OTHERS AND SITE INSTALLED. ENCLOSURE MUST HAVE A MINIMUM NET AREA OF VENTILATION OPENINGS OF NOT LESS THAN ONE SQUARE FOOT FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. LOCATE OPENINGS TO PROVIDE CROSS VENTILATION OF ENTIRE CRAWL SPACE. INSTALL AN 18" X 24" (16" X 30" WHEN BUILDING IS LOCATED IN INDIANA) MINIMUM OPENING FOR CRAWL SPACE ACCESS.
 4. ALL WOOD FLOOR FRAMING AND EXTERIOR WOOD SHEATHING/SIDING SHALL BE A MINIMUM OF 8 INCHES FROM THE EXTERIOR GRADE AND AT LEAST 18 INCHES FROM THE EXPOSED GROUND OF THE CRAWL SPACE.



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APOLLO MODULAR SYSTEMS, INC. 2162 INDUSTRIAL BLVD. DOUGLAS, GA 31533 * 912-632-3344			
DATE: 3-31-2025		ENGINEER: WALTER E. WOOD, P.E. SYSVESTER, GA 31791	
SCALE: 1/4" = 1'-0"		REVISIONS:	BY:
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV			
LABELS: RADCO			
BUILDING DESTINATION: STOCK		SHEET:	
TMS-11401-06 AB - 23'-4"x64'-0" - EDUCATION		7 OF 9	
ELEVATIONS		PLAN NO. 11401-06 AB	

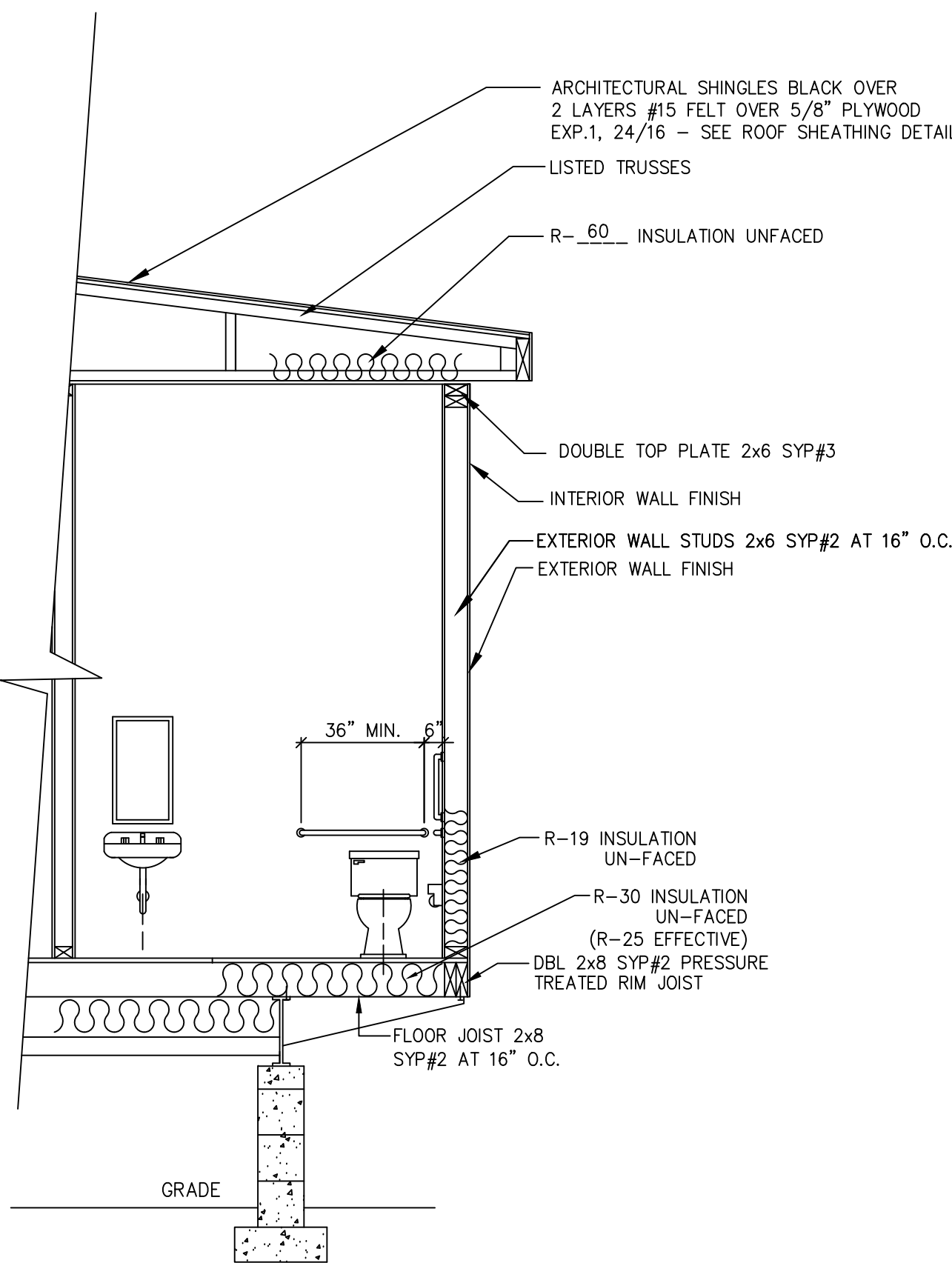
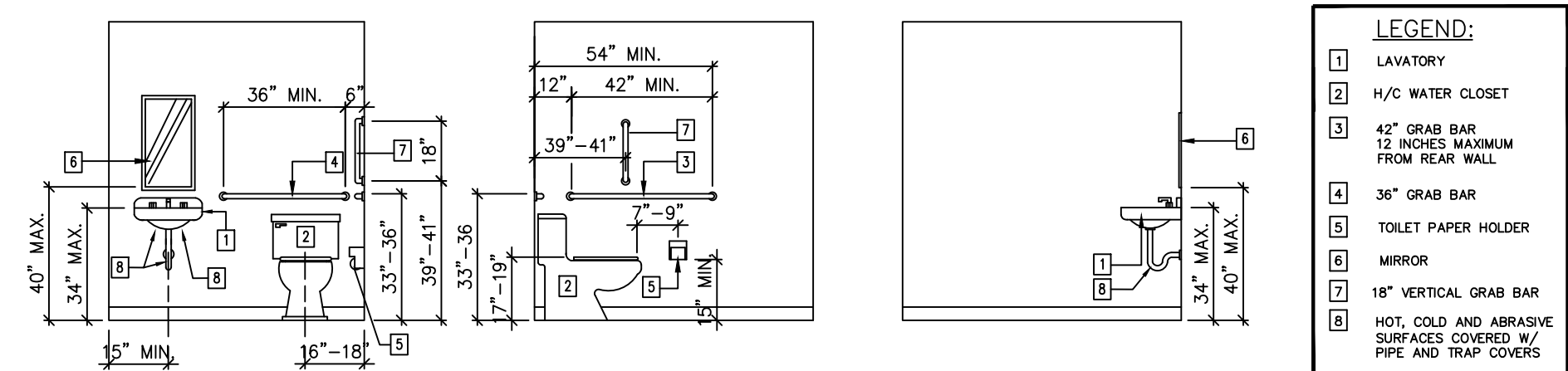
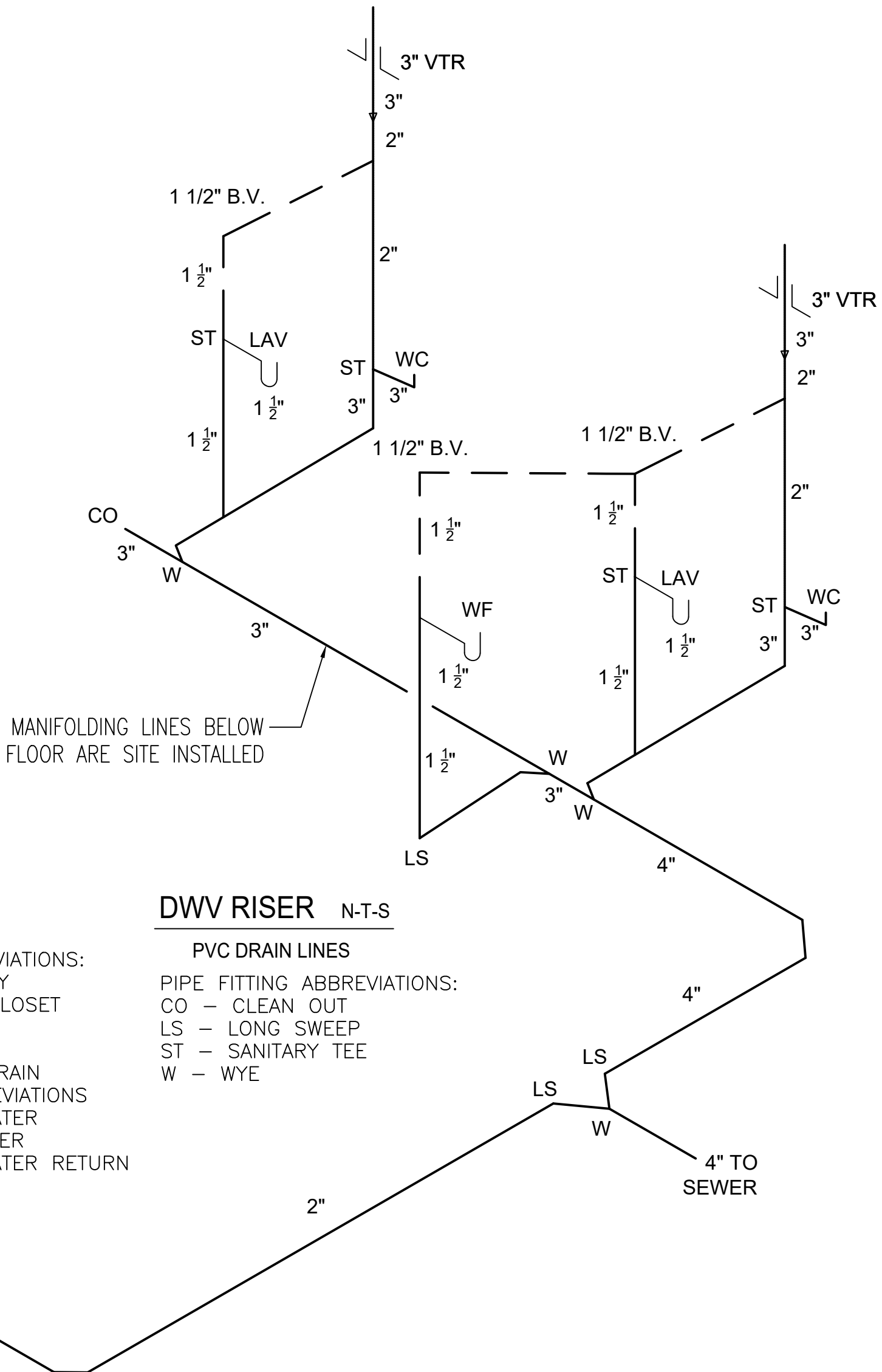
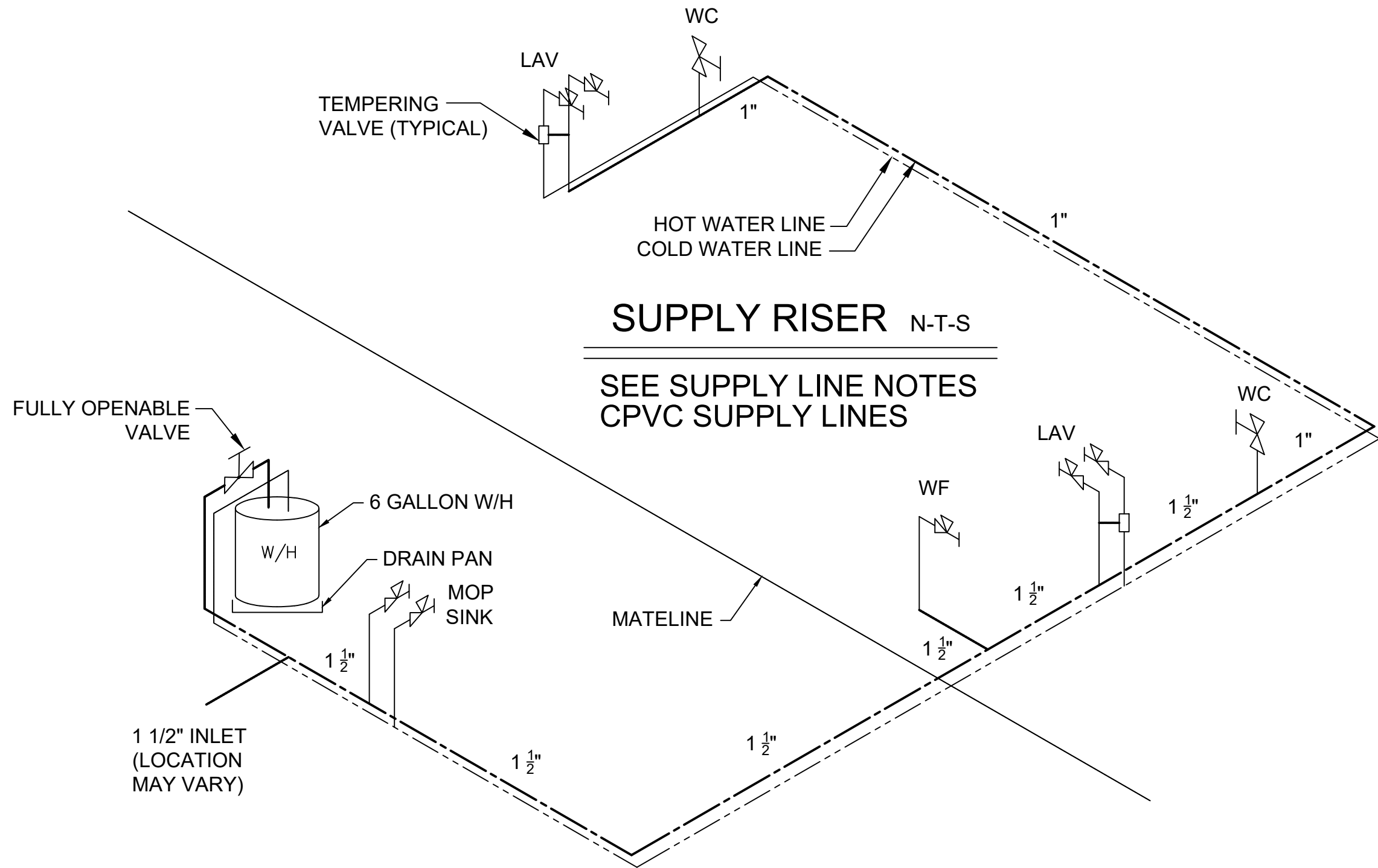
SUPPLY LINE NOTES:

- SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 60 PSI AT THE INLET LOCATION SHOWN, AFTER ANY DEDUCTIONS FOR PRESSURE LOSS DUE TO METER, TAP INTO MAIN, WATER PRESSURE REDUCING VALVES, SPECIAL EQUIPMENT SUCH AS BACKFLOW PREVENTOR, FILTER, SOFTENER, ETC. THIS AVAILABLE PRESSURE MUST BE VERIFIED PRIOR TO CONSTRUCTION. IF A BOOSTER PUMP IS NEEDED TO ACHIEVE REQUIRED PRESSURE THEN THE BUILDING OWNER IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF PUMP SYSTEM.
- SUPPLY LINE INLET(S) SHOWN ON THESE PLANS ARE ASSUMED TO EXTEND ONLY TO EXTERIOR WALL. ALL SERVICE SUPPLY LINES UP TO THE INLET(S) ARE DESIGNED BY OTHERS AND SITE INSTALLED UNLESS OTHERWISE SPECIFIED.
- SUPPLY LINE SIZING MUST BE REDESIGNED IF THE BUILDING DOES NOT COMPLY WITH ANY OF THE ABOVE ASSUMPTIONS.
- UNLESS OTHERWISE SPECIFIED ALL SUPPLY LINES ARE 3/4" Ø MINIMUM. UNLESS OTHERWISE SPECIFIED ALL STUB-UPS ARE 3/4" Ø TO FLUSH VALVE URINALS AND 1/2" Ø TO ALL OTHER FIXTURES.
- OPERATION OF EACH URINAL FLUSHOMETER VALVE AND FIXTURE SHALL NOT REQUIRE MORE THAN 25 PSI OF PRESSURE (12 GPM).

HOT WATER LINE _____
COLD WATER LINE _____

DWV RISER NOTES:

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



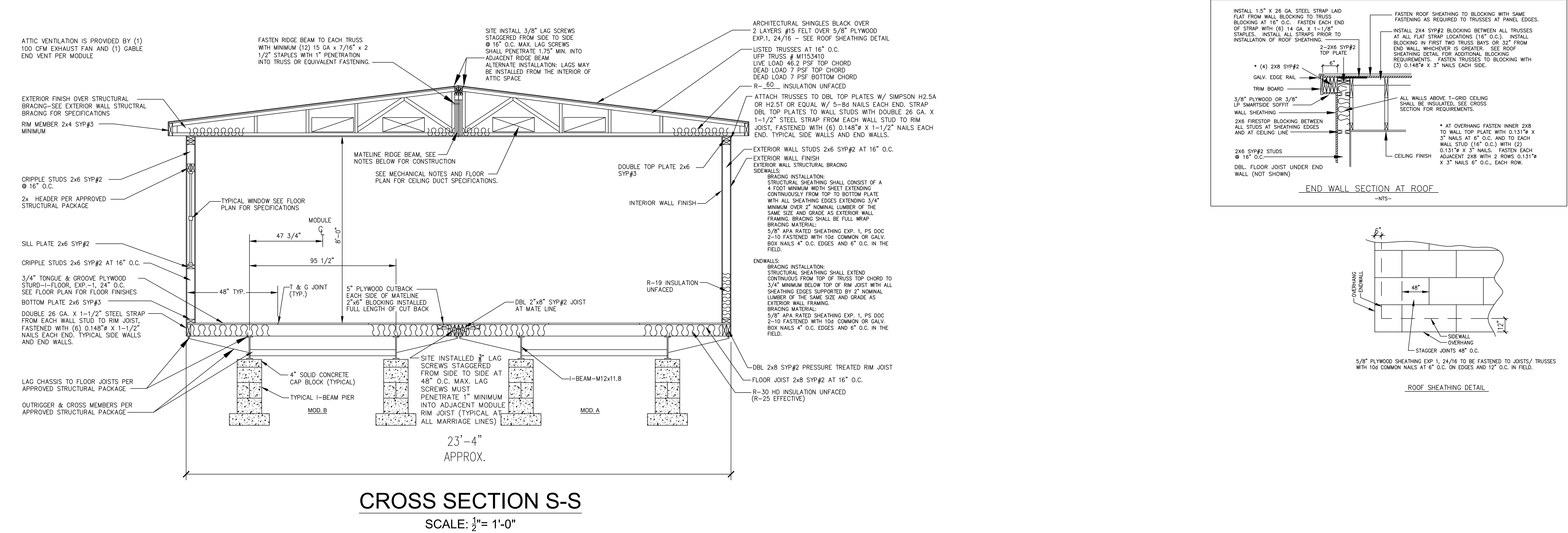
PLUMBING SCHEDULE		
ITEM	PRODUCT	STANDARD(S)
SUPPLY LINES	CPVC	ASTM D 2846
DWV LINES	SCHEDULE 40 PVC	ASTM D 2665
LAVATORY	AMERICAN STANDARD	ASME A112.19.1/CSA B45.1, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAQMD Z124.
WATER CLOSET	WESTERN	ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAQMD Z124, ASME VC TANK - A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAQMD Z124.
MOP SINK		ASME A112.6.7
DRINKING FOUNTAIN	N/A	ASME A112.19.1/CSA B45.2 or ASME A112.19.2/CSA B45.1 and water coolers shall conform to AHR1 1010.

- NOTE:
- LAVATORY / SINK FAUCETS PROVIDED W/ WATER TEMPERATURE LIMITING DEVICES PER ASSE 1070.
 - WATER HEATER TEMPERATURE AND PRESSURE RELIEF VALVES TO COMPLY WITH ANSI Z21.22

FREEZE PROTECTION OF PIPING: (SITE INSTALLED BY OTHERS)

- ALL WATER, SOIL & WASTE PIPES EXPOSED TO THE EXTERIOR SHALL BE PROVIDED WITH FREEZE PROTECTION BY MEANS OF ELECTRIC HEAT TAPE COVERED WITH R-3 MINIMUM INSULATION.
- HEAT TAPE SHALL BE LISTED FOR USE IN COMMERCIAL BUILDINGS.
- TEMPERATURE CONTROL SHALL BE PROVIDED BY A DISCONNECT THAT INDICATES AN "OFF" POSITION AND IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION. SUCH DISCONNECTING MEANS SHALL BE READILY ACCESSIBLE; NOT LOCATED IN THE CRAWLSPACE OR ATTIC.
- HEAT TAPE SYSTEM PRODUCT MANUFACTURER'S INSTALLATION INSTRUCTION (INCLUDING INSULATION INSTALLATION) SHALL BE PROVIDED TO THE BUILDING, ELECTRICAL, AND PLUMBING INSPECTORS.
- EXTERNAL SURFACES OF PIPING THAT EXCEED 140°F SHALL BE GUARDED, ISOLATED OR INSULATED TO PROTECT AGAINST CONTACT BY PERSONNEL IN THE AREA.
- EACH HEATING ELEMENT MUST BE MARKED/IDENTIFIED AT EACH END OF THE NON-HEATED LEADS, AND MUST NOT EXCEED 20 FOOT SPACING. THE I.D. MARKER IS REQUIRED TO BE LEGIBLY MARKED WITHIN 3 INCHES OF EACH END OF NON-HEATED LEADS AND INCLUDE THE CATALOG NUMBER AND THE RATING OF THE VOLTS AND WATTS OR VOLTS AND AMPS. EACH SEPARATE HEATING SYSTEM IS REQUIRED TO BE IDENTIFIED.
- THE HEAT TAPE ELEMENT SHALL NOT BE SECURED TO THE PIPING BY THE THERMAL INSULATION.
- THE HEAT TAPE ELEMENT MUST REMAIN IN DIRECT CONTACT WITH THE PIPE, OR MEANS SHALL BE PROVIDED TO PREVENT OVER-TEMPERATURE UNLESS THE HEAT TAPE IS SUCH THAT ITS TEMPERATURE LIMITATIONS WILL NOT BE EXCEEDED.
- THE HEAT TAPE SHALL NOT BRIDGE EXPANSION JOINTS WITHOUT PROVISIONS FOR EXPANSION AND CONTRACTION.
- THE HEAT TAPE SHALL HAVE COMPATIBLE FLEXIBILITY FOR THE TYPE OF PIPING BEING HEATED.
- POWER SUPPLY NON-HEATED LEADS MUST BE A MINIMUM OF 6 INCHES WITHIN THE JUNCTION BOX. THE NON-HEATED LEADS ARE REQUIRED TO BE WITHIN APPROVED AND SUITABLE RACEWAYS. NON-HEATED INTERCONNECTIONS SHALL BE COVERED WITH INSULATION IN THE SAME MANNER AS THE HEATED.
- SPLICES AND TERMINATIONS OUTSIDE THE THERMAL INSULATION ARE REQUIRED TO BE WITHIN A BOX OR FITTING PER NEC 110.14 OR 300.15.
- HEAT TAPE IS REQUIRED TO BE PROVIDED WITH A GROUND FAULT EQUIPMENT PROTECTION (GFCP) CIRCUIT BREAKER.
- HEAT TAPE SHALL BE LISTED AS HAVING A GROUNDED CONDUCTIVE COVERING IN ACCORDANCE WITH NEC 427.23(A).
- HEAT TAPE SHALL HAVE READILY ACCESSIBLE DISCONNECT OF THE "INDICATING" TYPE HAVING A POSITIVE LOCK-OUT IN THE OPEN POSITION. ATTACHMENT PLUGS OF CORD AND PLUG CONNECTED EQUIPMENT FROM WITHIN THE CRAWLSPACE OR ATTIC CANNOT BE THE DISCONNECTING MEANS OF THE HEAT TAPE, NOR ARE THESE CORDS PERMITTED TO GO THROUGH THE FLOOR OR CEILING.
- A GFCI PROTECTED RECEPTACLE OUTLET SHALL BE PROVIDED IN THE CRAWLSPACE OR ATTIC, AS APPLICABLE, WITHIN 25 FEET OF EACH HEAT TAPE.

TITAN MODULAR SYSTEMS, INC.		
162 INDUSTRIAL DRIVE ALMA, GA 31510 * 912-632-3344		
APOLLO MODULAR SYSTEMS, INC.		
2162 INDUSTRIAL BLVD. DOUGLAS, GA 31533 * 912-632-3344		
DATE: 3-31-2025	ENGINEER: WALTER E. WOOD, P.E.	
SCALE: 1/4" = 1'-0"	SYSVSTER, GA 31791	
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV	REVISIONS:	BY:
LABELS: RADCO		
BUILDING DESTINATION: STOCK	SHEET:	
TMS-11401-06 AB - 23'-4"X64'-0" - EDUCATION		
MECHANICAL PLAN	PLAN NO. 11401-06 AB	8 OF 9



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 (WHEN PROVIDED) PLAN FOR PIER AND THE TIE DOWN ANCHORAGE LOCATIONS, ORIENTATIONS AND SPECIFICATIONS.
- WHERE 1" STAPLES ARE SPECIFIED THIS SHALL MEAN 1" PENETRATION INTO THE HOLDING MEMBER
- FOR TIE DOWN STRAP FASTENERS PROVIDE 1/2" 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 1/3RD OF THE STRAP WIDTH. DO NOT INSTALL SIDE BY SIDE, IN NO CASE SHALL SPLITTING OF WOOD BE PERMITTED.
- WHERE KRAFTBACK OR OTHER VAPOR RETARDERS ARE SPECIFIED THEY SHALL BE INSTALLED ON THE INTERIOR SIDE OF THE ASSEMBLY UNLESS OTHERWISE SPECIFIED.
- ALL VAPOR RETARDERS ON THE EXPOSED INSULATION SHALL BE FOIL FACE TYPE VAPOR RETARDERS WITH A FLAMESPREAD RATING <25 AND SMOKE DEVELOPMENT RATING < 450.
- SEE GENERAL NOTES ON COVER SHEET FOR INTERIOR FINISH MATERIAL RATING CLASSIFICATIONS.

INTERIOR FINISH MATERIALS:

CEILING: 1/2" GYPSUM W/ SEASPRAY FINISH
WALL: 5/8" TYPE "X" VINYL-CLAD GYPSUM BOARD
INTERIOR FINISHES SHALL BE CLASS 'A' FOR EXITS AND OTHER THAN EXITS SHALL BE CLASS 'A' OR 'B'
FLOOR: VCT PER PLAN, ROLL VINYL PER PLAN.
FLOOR FINISHES SHALL BE NO LESS THAN CLASS II LISTED PRODUCTS.
EXTERIOR FINISH MATERIALS:
ROOF: ARCHITECTURAL SHINGLES (BLACK) OVER 2 LAYERS #15 FELT OVER 5/8" PLYWOOD
WALL: 3/8" LP-SMART PANEL SIDING APARATED PANEL SIDING PER ESR-1301 FASTENED WITH 0.113" Ø x 2 1/2" GALV NAILS @ 4" OR 6" O.C. EDGES & 6" O.C. FIELD. PANELS MUST BE 1" INSTALLED WITH THE LONG DIMENSION ORIENTED IN THE VERTICAL DIRECTION. FASTENERS MUST NOT BE INSTALLED IN THE SIDING GROOVES IN THE FIELD OF THE PANEL OR AT THE EDGE OF THE PANEL WHEN THE SIDING GROOVES OCCUR AT THE CUT EDGE

RIDGE BEAM CONSTRUCTION

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

- 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 1-09.
 - 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 & HEADERS 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.

EXTERIOR WALL STRUCTURAL BRACING:

BRACING MATERIAL:
5/8" APA RATED PLYWOOD SHEATHING EXP. 1, FASTENED WITH 10d COMMON OR GALV NAILS 4" O.C. EDGES AND 12" O.C. IN THE FIELD.

END WALL TIE DOWN:

INSTALL AT LEAST (2) 26 GA x 1 1/2" STEEL STRAPS AT EACH END OF EACH END WALL SEGMENT THAT IS GREATER THAN 36" IN LENGTH. FASTEN EACH STRAP WITH (7) 14 GA x 7/16" CROWN x 1 1/8" STAPLES EACH END.

SIDE WALL TIE DOWN:

INSTALL AT LEAST (1) 26 GA x 1 1/2" STEEL STRAPS AT EACH END OF EACH END WALL SEGMENT THAT IS GREATER THAN 36" IN LENGTH. FASTEN EACH STRAP WITH (7) 14 GA x 7/16" CROWN x 1 1/8" STAPLES EACH END. DO NOT OVERLAP STRAPS. ADD STUDS AS NEEDED TO ACCOMMODATE ALL REQUIRED STRAPS.

END WALL BOTTOM PLATE FASTENING:

FASTEN HITCH END WALL BOTTOM PLATE TO FLOOR RIM JOIST WITH 0.162"Ø x 3 1/2" NAILS OR EQUAL AT 12" O.C.

SIDE WALL BOTTOM PLATE FASTENING:

FASTEN HITCH END WALL BOTTOM PLATE TO FLOOR RIM JOIST WITH 0.162"Ø x 3 1/2" NAILS OR EQUAL AT 16" O.C.

STATE OF MARYLAND PACKAGE REFERENCES:

FRAME I-BEAM DESIGN - C10.1

FLOOR SYSTEM DESIGN - C5.2

MATELINE COLUMNS - C27.5, C27.7

MATELINE PLYWOOD BEAMS - C29.3

OVERTURNING AND SLIDING - D24.6 -24.7

LONGITUDINAL TIE DOWN - D25.0

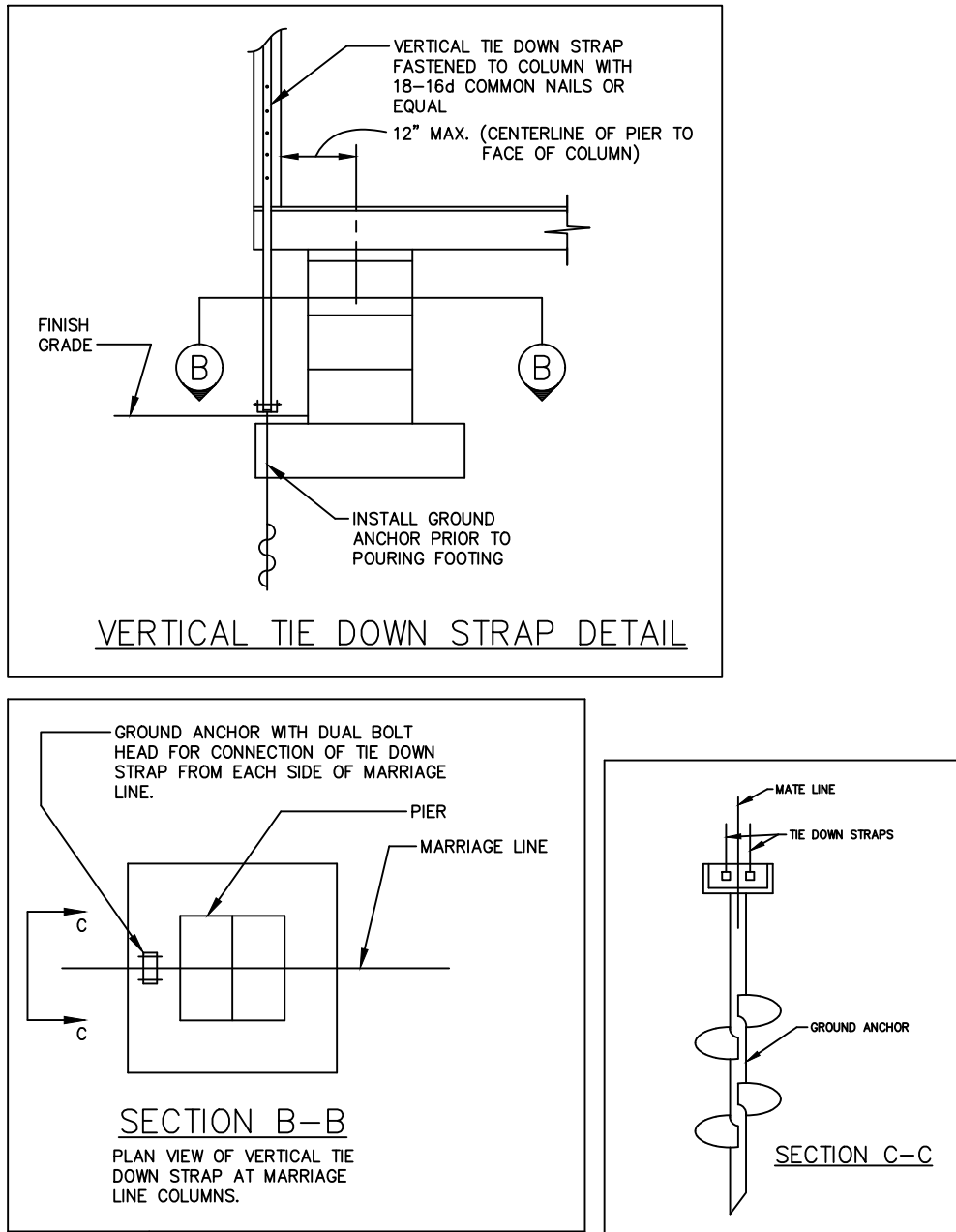
TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE
ALMA, GA 31510 * 912-632-3344

APOLLO MODULAR SYSTEMS, INC.

2162 INDUSTRIAL BLVD
DOUGLAS, GA 31533 * 912-632-3344

DATE: 3-31-2025	ENGINEER: WALTER E. WOOD, P.E.	BY:
SCALE: N-T-S	SYSVESTER, GA 31791	
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV	REVISIONS:	SHEET: 9 OF 9
LABELS: RADCO		
BUILDING DESTINATION: STOCK		
TMS-11401-06 AB - 23'-4"x64'-0" - EDUCATION		
CROSS SECTION	PLAN NO. 11401-06 AB	



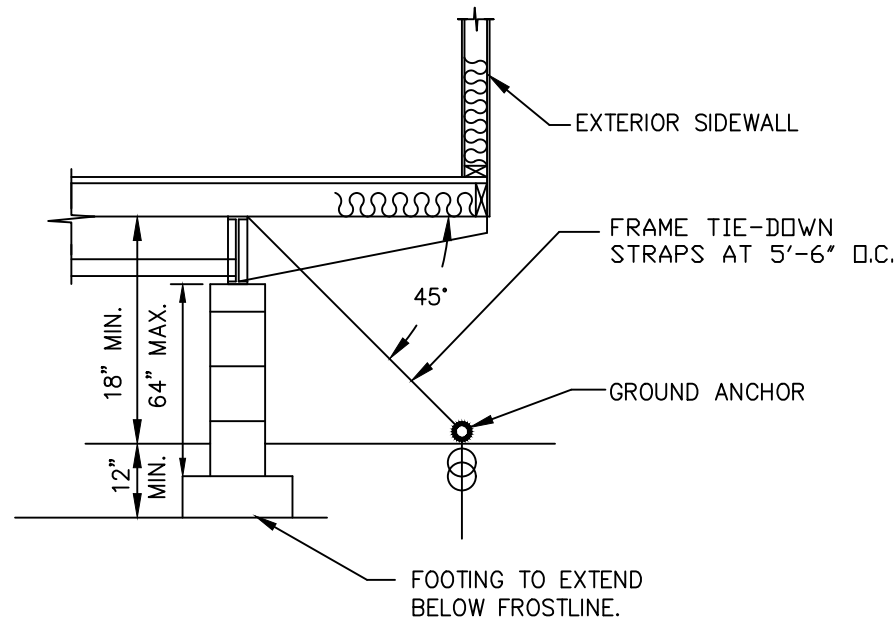
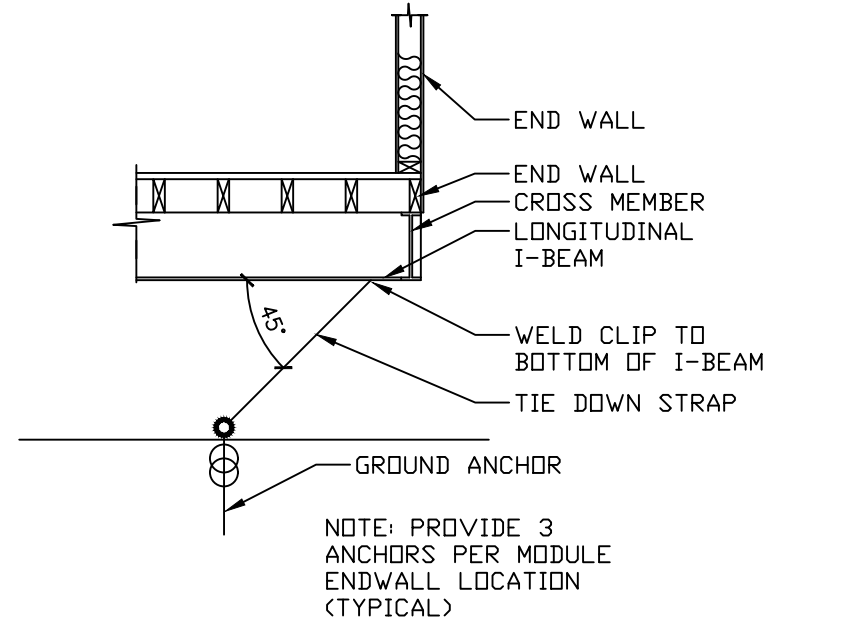
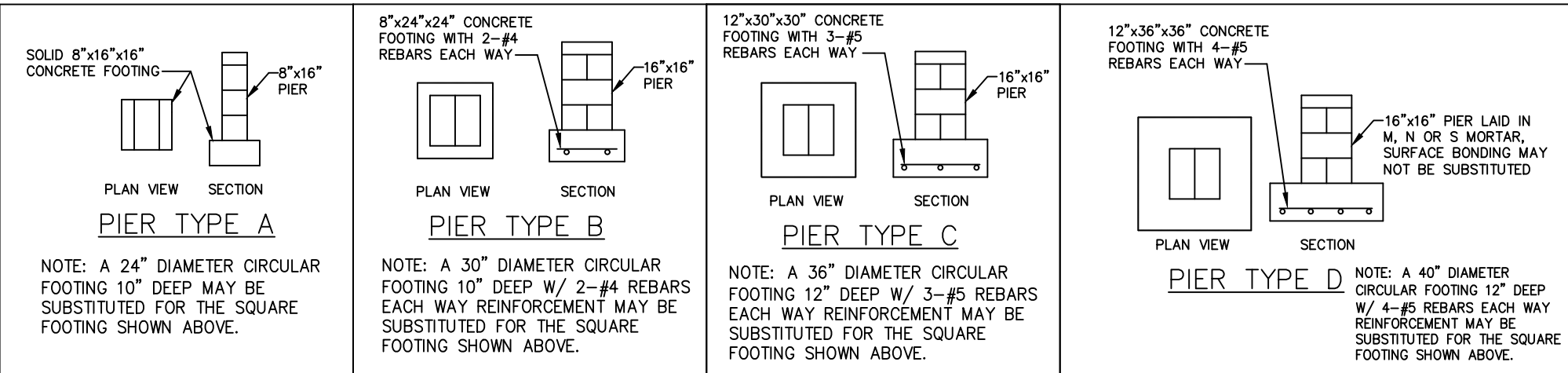
FOUNDATION NOTES:

- 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.
- ALL FOUNDATION CONSTRUCTION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
- THE 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 A3063-91. TIE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3100F MINIMUM WORKING CAPACITY.
- EACH GROUND ANCHOR SHALL HAVE A WORKING CAPACITY NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL THE DOWN STRAPS CONNECTED TO THE GROUND ANCHOR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHOR, INCLUDING SHANK LENGTH, NUMBER AND DIAMETER OF HELICES, 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.
- EXCAVATE AN ADDITIONAL 1 TO 2 INCHES AT BOTTOM AND SIDES OF ALL FOOTINGS THAT ARE POURED DIRECTLY AGAINST EARTH.
- ALL PIERS SHALL BE CONSTRUCTED OF 8" X 8" X 16" NOMINAL STANDARD WEIGHT CONCRETE MASONRY UNITS CONFORMING TO ASTM C90, HAVING A UNIT COMPRESSIVE STRENGTH OF 1900 PSI (f'm = 1500 PSI). MASONRY UNITS SHALL BE FULLY LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT COMPLYING WITH ASTM C887 AND APPLIED IN STRICT ACCORDANCE WITH THE CEMENT MANUFACTURER'S INSTRUCTIONS, WITH THE BOTTOM COURSE FULLY LAID IN TYPE M OR S MORTAR. REINFORCEMENT BARS AND PIER FOOTINGS SHALL BE DESCRIBED IN THE PIER DETAILS.
- CONCRETE SHALL BE STANDARD WEIGHT (150 PCF) WITH A MINIMUM COMPRESSIVE STRENGTH 3000 PSI AT 28 DAYS. MORTAR SHALL COMPLY WITH ASTM C270. GROUT SHALL COMPLY WITH ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE UNCOATED DEFORMED BARS (NO EPOXY). REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING. AT SPLICES LAP ALL #4 BARS 24 INCHES MINIMUM AND LAP ALL #5 BARS 30 INCHES MINIMUM. OFFSET SET ALL SPLICES 30 INCHES MINIMUM.
- ALL PIERS SHALL BE CARPED WITH 4 INCHES OF SOLID MASONRY OR CONCRETE OR THE CAVITIES OF THE TOP COURSE SHALL BE FILLED WITH CONCRETE OR GROUT. PIERS SHALL PROVIDE A TRUE AND EVEN BEARING SURFACE. THE CENTERLINE OF EACH PIER SHALL BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE WITH 1 INCH MAXIMUM TOLERANCE.
- SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, THE ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY.
- WHEN CONTINUOUS PERIMETER SUPPORT IS NOT PROVIDED, INSTALL A TYPICAL I-BEAM TYPE PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY- OPTIONAL WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPERABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.
- THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
- THE PERIMETER GRADE SHALL BE SLOPED AWAY FROM THE BUILDING TO PROVIDE POSITIVE DRAINAGE. THE GRADE OF THE GROUND UNDER THE BUILDING SHALL NOT BE LOWER THAN THE LOWEST SURROUNDING FINISHED LOT AREA GRADE IN ORDER TO PREVENT THE ACCUMULATION AND STANDING OF WATER UNDER THE BUILDING.
- ALL STAIRS, RAMPS, DECKS AND OTHER SITE WORK NOT SHOWN ON THESE DRAWINGS ARE DESIGNED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
- FOUNDATION ENCLOSURE (IF PROVIDED) IS DESIGNED BY OTHERS. ENCLOSURE MUST HAVE A MINIMUM NET VENT AREA OF VENTILATION OPENINGS OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. LOCATE OPENINGS TO PROVIDE CROSS VENTILATION OF ENTIRE CRAWL SPACE. INSTALL AN 18" X 24" MINIMUM OPENING FOR CRAWL SPACE ACCESS.
- THE FOUNDATION DIMENSIONS SHOWN ARE EXPECTED ACTUAL MODULE WIDTHS FROM THE FACTORY. TYPICALLY A ONE INCH GAP AT EACH MATE LINE IS NEEDED TO ACCOUNT FOR MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR TO CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE EXACT AMOUNT OF INCREASED WIDTH TO BE ADDED AT EACH MATE LINE.

TYPICAL FOUNDATION PLAN -NTS-
SEISMIC DESIGN CATEGORY - C

MARRIAGE WALL PIER REQUIREMENTS			
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	C	1
2	2000 PSF	2B*	1
	3000 PSF	2B*	1

* INSTALL 2 PIERS CENTERED ABOUT THE COLUMN LOCATION.



SEE COVER SHEET FOR DESIGN & LOADING INFORMATION.

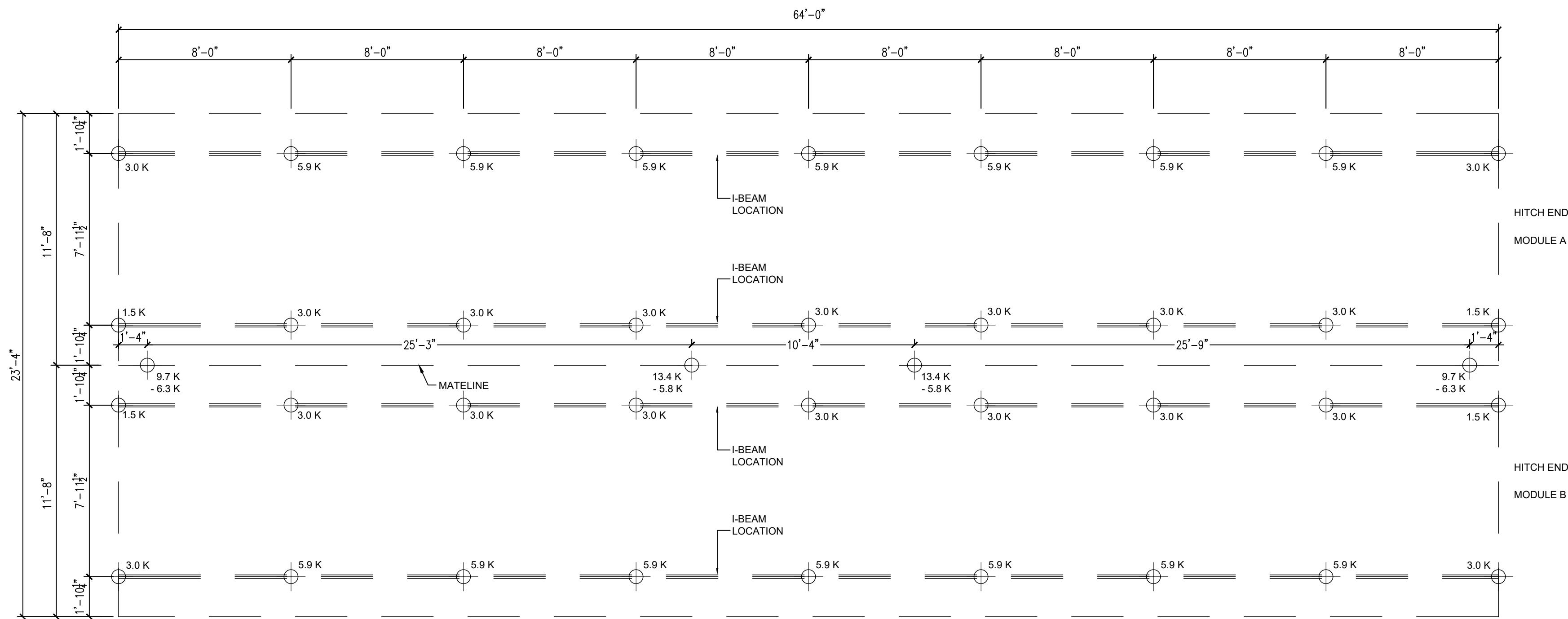
B	MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY
	9'-0"	2000 PSF
	9'-0"	3000 PSF

NOTE: THIS FOUNDATION 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.

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 CHART ON THIS PAGE TO DETERMINE THE REQUIRED NUMBER OF PIERS.

NOTE:
THIS FOUNDATION PLAN IS FOR REFERENCE ONLY
AND IS NOT PART OF THE STATE OF MARYLAND
APPROVAL.

TITAN MODULAR SYSTEMS, INC.			
162 INDUSTRIAL DRIVE ALMA, GA 31510 * 912-632-3344			
APOLLO MODULAR SYSTEMS, INC.			
2162 INDUSTRIAL BLVD. DOUGLAS, GA 31533 * 912-632-3344			
DATE: 3-31-2025	ENGINEER: WALTER E. WOOD, P.E. SYRVESTER, GA 31791		
SCALE: 1/4" = 1'-0"	BY:		
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV	REVISIONS:		
LABELS: RADCO			
BUILDING DESTINATION: STOCK			SHEET:
TMS-11401-06 AB - 23'-4"X64'-0" - EDUCATION			
FOUNDATION PLAN	PLAN NO. 11401-06 AB		1 OF 1



KIP LOAD FOUNDATION PLAN

1/4" = 1'-0"

⊕ LOCATION FOR SUPPORT OF LOADS AS NOTED

FOUNDATION NOTES:

- THESE PLANS DO NOT SHOW FOUNDATION SUPPORT OR TIE DOWN SYSTEMS. THESE ARE TO BE DESIGNED BY A STRUCTURAL ENGINEER FAMILIAR WITH THE PROJECT SITE CONDITONS.
- THE FOLLOWING LOADS HAVE BEEN USED IN THE SIZING OF THE KIP LOADS ABOVE:
 - FLOOR LIVE LOAD 40 PSF
 - FLOOR DEAD LOAD 15 PSF
 - WALL LOAD 10 PSF
 - GROUND SNOW LOAD 60 PSF
 - ROOF LIVE LOAD 48.2 PSF
 - ROOF DEAD LOAD 15 PSF
- THE UPLIFT LOADS SHOWN ABOVE ARE FOR SHEAR WALL RESISTANCE ONLY AND RESISTANCE TO ALL WIND AND SEISMIC LOADING MUST BE PROVIDED FOR IN THE FOUNDATION DESIGN.

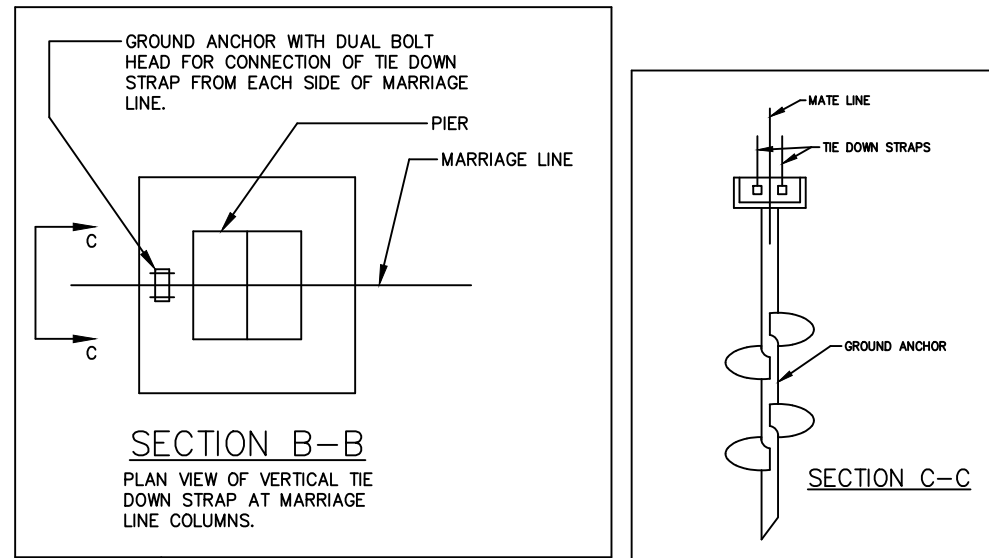
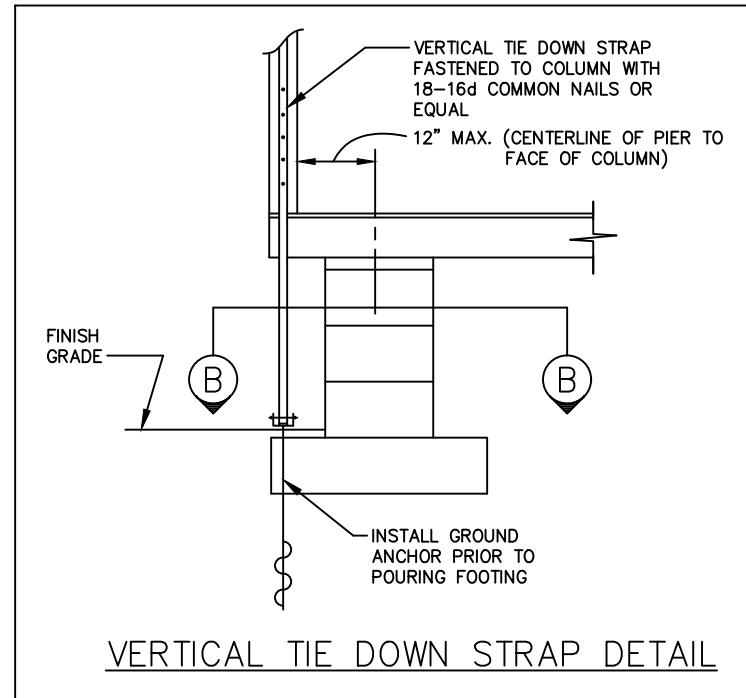
TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE
ALMA, GA 31510 * 912-632-3344

APOLLO MODULAR SYSTEMS, INC.

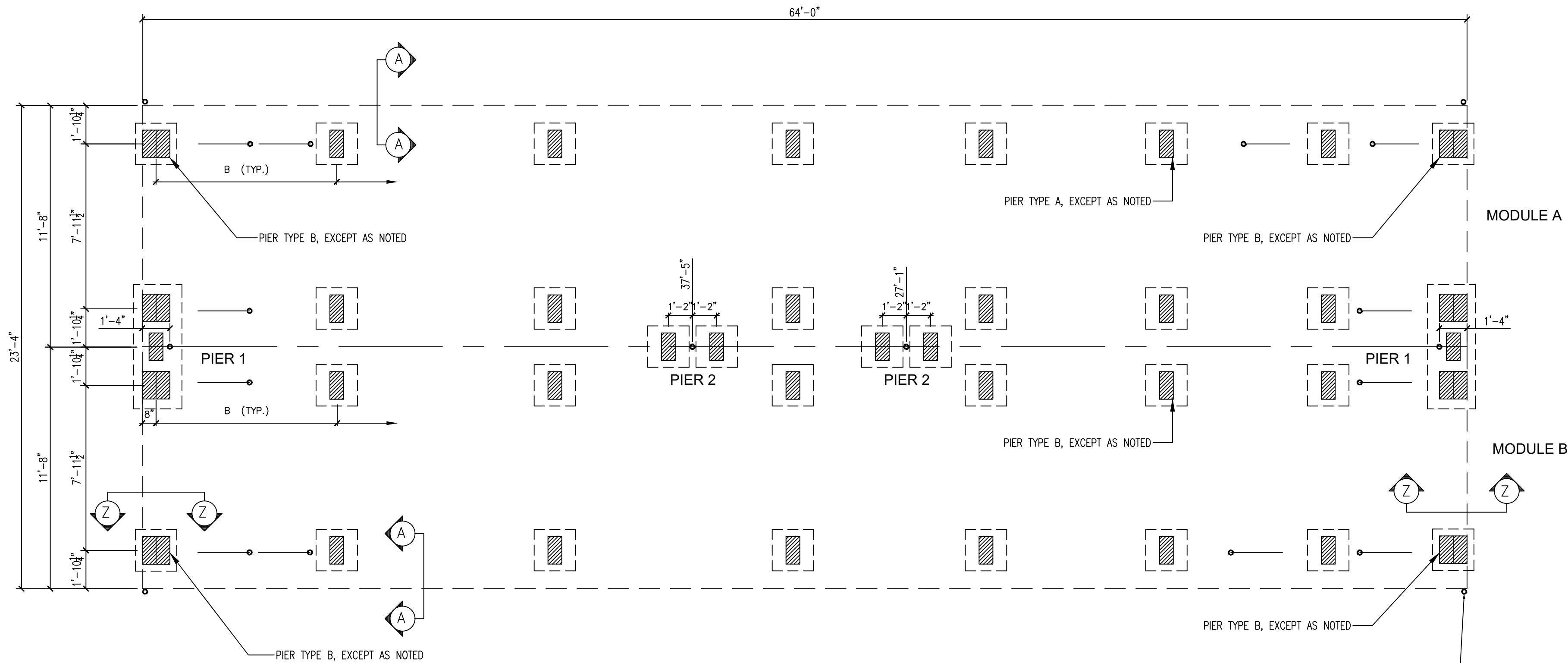
2162 INDUSTRIAL BLVD.
DOUGLAS, GA 31533 * 912-632-3344

DATE: 3-31-2025	ENGINEER: WALTER E. WOOD, P.E. SYSVESTER, GA 31791	
SCALE: 1/4" = 1'-0"	REVISIONS:	BY:
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV		
LABELS: RADCO		
BUILDING DESTINATION: STOCK		SHEET:
TMS-11401-06 AB - 23'-4"X64'-0" - EDUCATION		
KIP LOADS PLAN	PLAN NO. 11401-06 AB	1 OF 1



FOUNDATION NOTES:

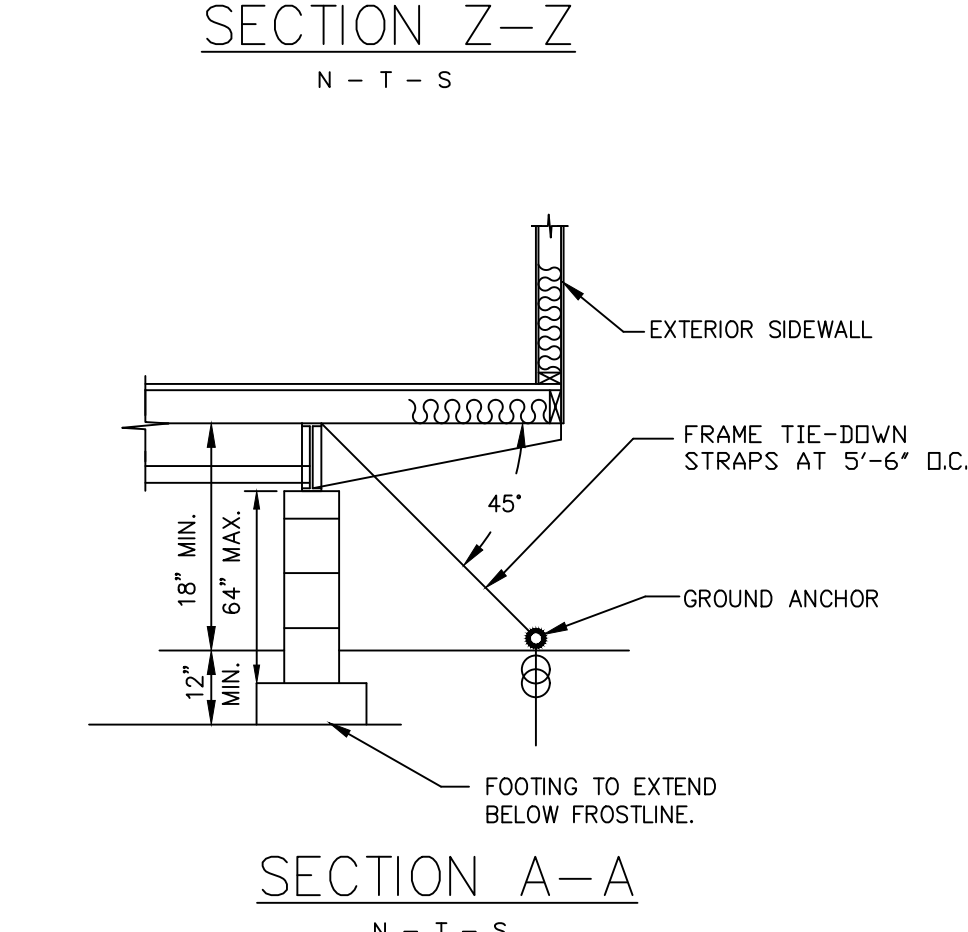
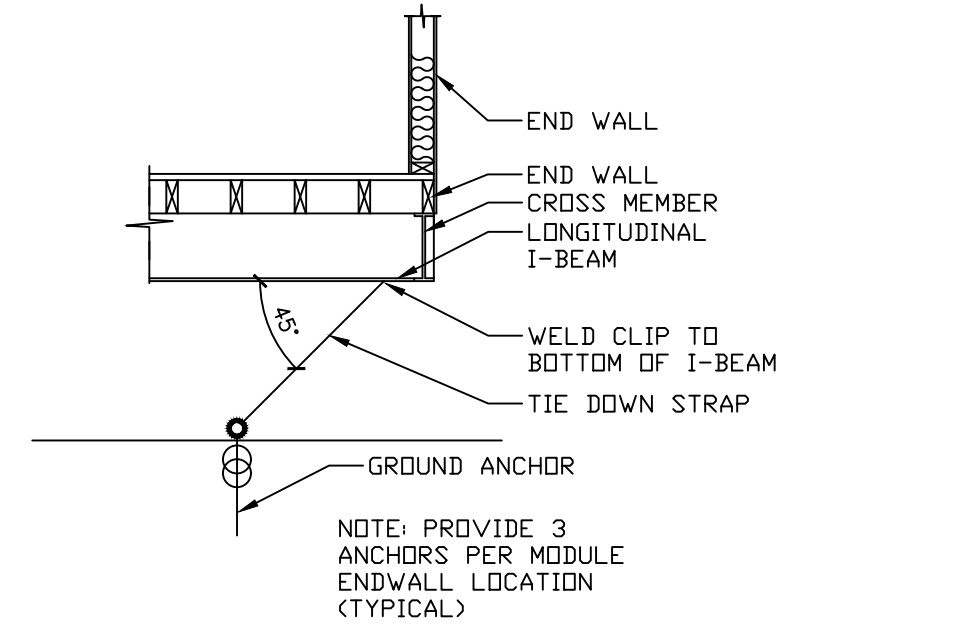
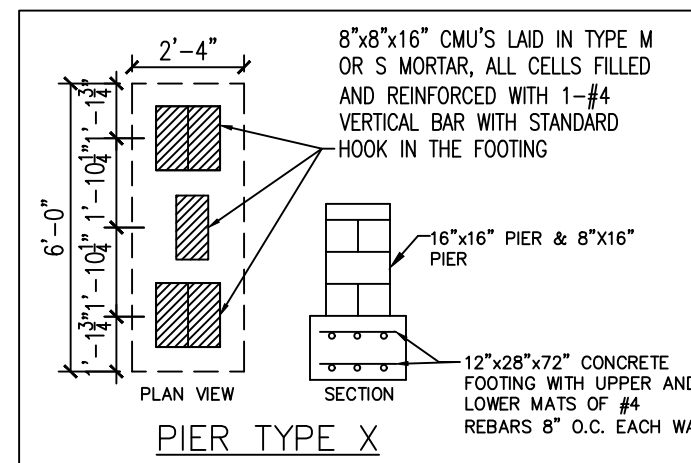
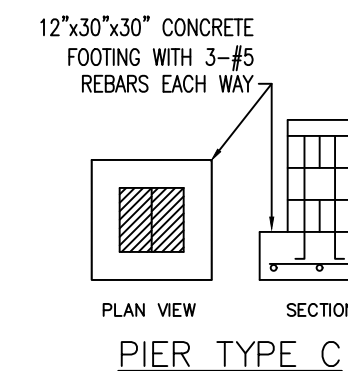
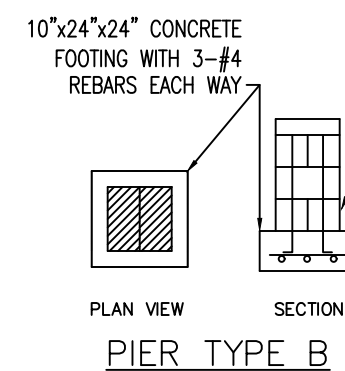
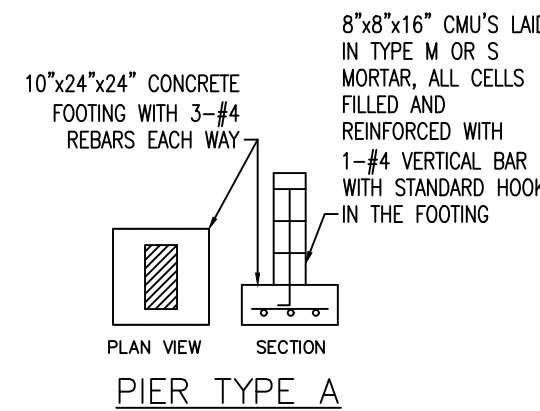
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- ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE UNCOATED DEFORMED BARS (NO EPOXY). REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 1" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING. AT SPLICES LAP ALL #4 BARS 24 INCHES MINIMUM AND LAP ALL #5 BARS 30 INCHES MINIMUM. SET ALL SPLICES 30 INCHES MINIMUM.
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- THE FOUNDATION DIMENSIONS SHOWN ARE EXPECTED ACTUAL MODULE WIDTHS FROM THE FACTORY. TYPICALLY A ONE INCH GAP AT EACH MATE LINE IS NEEDED TO ACCOUNT FOR MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR TO CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE EXACT AMOUNT OF INCREASED WIDTH TO BE ADDED AT EACH MATE LINE.



TYPICAL FOUNDATION PLAN -NTS- SEISMIC DESIGN CATEGORY - D BASE SHEAR = 2,380 LBS

MARRIAGE WALL PIER REQUIREMENTS			
PIER NUMBER	MINIMUM SOIL BEARING CAPACITY	PIER TYPE	NUMBER OF VERTICAL TIE DOWN STRAPS REQ'D. (EACH MODULE)
1	2000 PSF	X	1
	3000 PSF	X	1
2	2000 PSF	2A*	1
	3000 PSF	2A*	1

* INSTALL 2 PIERS CENTERED ABOUT THE COLUMN LOCATION.



SEE COVER SHEET FOR DESIGN & LOADING INFORMATION.

B	MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY
	8'-0"	2000 PSF
	8'-0"	3000 PSF

NOTE:
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NOTE:
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TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE
ALMA, GA 31510 * 912-632-3344

APOLLO MODULAR SYSTEMS, INC.

2162 INDUSTRIAL BLVD.
DOUGLAS, GA 31533 * 912-632-3344

DATE: 6-11-2025	ENGINEER: WALTER E. WOOD, P.E. SYRVESTER, GA 31791	BY:
SCALE: 1/4" = 1'-0"	REVISIONS:	
CODES: AL CT GA IN LA MD MI MS NY NJ NC PA SC TX VA WV		
LABELS: RADCO		
BUILDING DESTINATION: STOCK		SHEET:
TMS-11401-06 AB - 23'-4"x64'-0" - EDUCATION		
FOUNDATION PLAN	PLAN NO. 11401-06 AB	1 OF 1