ENERGY CALCULATIONS

THESE VALUES WERE USED TO CALCULATE CBECC RES 2022 COMPLIANCE USING THE RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NOTE:
AIR FILM VALUES SOURCED FROM THE 2021 ASHRAE FUNDAMENTALS, CHAPTER 26, PAGE 26.21, TABLE 10

WALL ASSEMBLY
OUTSIDE AIR FILM: 0.25
5.75" EPS WALL PANEL: 22.54 (ASSUMES R VALUE OF 3.92/INCH) VARIES ANYWHERE FROM 3.5 TO 4.0
1/4" MGO BOARD: 0
INSIDE AIR FILM: 0.68
- TOTAL FOR WALL ASSEMBLY: R= 23.47 U= 0.0426

FLOOR ASSEMBLY
OUTSIDE AIR FILM: 0.25
6.75" EPS WALL PANEL: 26.46 (ASSUMES R VALUE OF 3.92/INCH) VARIES ANYWHERE FROM 3.5 TO 4.0
1/4" MGO BOARD: 0
INSIDE AIR FILM: 0.92
- TOTAL FOR FLOOR ASSEMBLY: R= 27.63U= 0.0362

ROOF ASSEMBLY
OUTSIDE AIR FILM: 0.25
6.75" EPS WALL PANEL: 26.46 (ASSUMES R VALUE OF 3.92/INCH) VARIES ANYWHERE FROM 3.5 TO 4.0
1/4" MGO BOARD: 0
INSIDE AIR FILM: 0.61
- TOTAL FOR ROOF ASSEMBLY: R= 27.32 U= 0.0366

ADDITIONAL SITE INSTALLED INSULATION REQUIREMENTS:
- CLIMATE ZONES 1-3 + 5-7:FACTORY INSTALLED INSULATION IS COMPLIANT. SEE A3.0 FOR DETAILS.
- CLIMATE ZONES 4, 10, + 12-16:ADDITIONAL INSULATION IS REQUIRED TO BE INSTALLED ON SITE. SEE A3.1 FOR DETAILS.
- CLIMATE ZONES 8-9 +11:ADDITIONAL INSULATION IS REQUIRED TO BE INSTALLED ON SITE. SEE A3.2 FOR DETAILS.

NOTES:
- R VALUES NOTED ABOVE (R 3.92/IN) ARE REFERENCED IN ICC EVALUATION REPORT ESR 1962, FOR EXPANDED POLYSTYRENE INSULATION. THIS INSULATION IS LISTED AS THE INSULATION USED IN THE ICC ES EVALUATION REPORT ESR 4725 FOR STRUCTURAL INSULATION PANELS.
- SIP PANEL ASSEMBLY R-VALUES WERE CALCULATED USING LISTED INSULATION VALUES AND AIR BARRIER. INTERNAL AND EXTERNAL SHEATHING WAS NOT FACTORED INTO TOTAL PANEL PERFORMANCE.

MODEL DATA

OCCUPANCY CLASSIFICATION:	R-3 ACCESSORY DWELLING UNIT (ADU)
TOTAL BUILDING AREA:	361 SQFT
BUILDING HEIGHT:	10'-9"
CONSTRUCTION TYPE:	V-B (STRUCTURAL INSULATING PANELS)
FIRE SUPPRESSION:	AUTOMATIC FIRE SPRINKLERS ARE NOT PROVIDED. FIRE SPRINKLERS WILL BE REVIEWED AND INSTALLED UNDER LOCAL AUTHORITIES

TESTS PASSED:
- NFPA 286 CORNER BURN TEST
- ASTM E84 NON-COMBUSTIBLE MATERIAL CONSTRUCTION
- ICC EVALUATION REPORT ESR 4725

BOXABL

STUDIO CASITA
TWO DOOR - MODEL BXB-000012 (CALIFORNIA)

MODEL CONTACTS

MANUFACTURER
BOXABL
5345 EAST NORTH BELT ROAD
LAS VEGAS, NV 89115

QC MANUAL APPROVAL NO:
MAC-FBH-10116

INSTALLATION MANUAL:
BXB-000012 INSTALLATION GUIDE
PLAN APPROVAL NO: MAC-FBH-10121

ARCHITECT
SEVAN DESIGN SOLUTIONS P.C.
3025 HIGHLAND PARKWAY, SUITE 850
DOWNERS GROVE, ILLINOIS
630-294-4583
JOE DEFILIPPIS

ELECTRICAL ENGINEER
DICKERSON ENGINEERING, INC
3343 NORTH RIDGE
ARLINGTON HEIGHTS, IL 60004
847-966-0200
GREGORY DOFFIN

MECHANICAL & PLUMBING ENGINEER
WCW ENGINEERS, INC.
760 CREEL DRIVE
WOOD DALE, IL 60191
630-595-8800
JOSEPH G. THOMAS

STRUCTURAL ENGINEER
SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR
SUITE 110 PMB 306
BEAVERTON, OR 97007
503-564-4178
MIKE NELSON

MODEL INFORMATION

ADDRESS:
ADDRESS:
CITY:
COUNTY:
STATE: CALIFORNIA
CLIMATE ZONE: ALL CLIMATE ZONES

BUILDING CODE:
- BUILDING CODE: 2021 INTERNATIONAL RESIDENTIAL CODE
- MECHANICAL CODE: 2021 UNIFORM MECHANICAL CODE
- ELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODE
- PLUMBING CODE: 2021 UNIFORM PLUMBING CODE
- ENERGY CODE: 2022 CALIFORNIA ENERGY CODE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
- FIRE PREVENTION CODE: 2021 INTERNATIONAL FIRE CODE

GENERAL NOTES

THE ARCHITECT AND HIS CONSULTANTS DO NOT WARRANTY OR GUARANTEE THE COMPLETENESS OF THE WORK BEYOND A REASONABLE DILIGENCE. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS ARE FOUND TO EXIST IN THE WORK PRODUCT, THE ARCHITECT SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THE ISSUE. FAILURE TO PROMPTLY NOTIFY THE ARCHITECT OF SUCH CONDITIONS, SHALL ABSOLVE THE ARCHITECT FROM ANY RESPONSIBILITY OF SUCH FAILURE. ACTION TAKEN WITHOUT THE KNOWLEDGE AND CONSENT OF THE ARCHITECT, IN CONTRADICTION TO THE WORK PRODUCT, OR THE RECOMMENDATIONS OF THE ARCHITECT SHALL BECOME THE RESPONSIBILITY OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

THESE DRAWINGS WERE PREPARED BASED ON THE ASSUMPTION THAT ANY CONTRACTOR, SUBCONTRACTOR, SUPPLIER, OR VENDOR INVOLVED IN THE CONSTRUCTION OF THE WORK DESCRIBED HEREIN HAS EXPERIENCE IN THEIR RESPECTIVE AREAS OR DISCIPLINES THAT MAKE UP THE SCOPE OF THE PROJECT.

MANUFACTURERS COMPLIANCE CERTIFICATE CAN BE FOUND INSIDE THE ELECTRICAL SUB PANEL DOOR.

THESE UNITS ARE PREFABRICATED FACTORY BUILT ACCESSORY DWELLING UNITS. PLUMBING, ELECTRICAL, & HVAC ARE PRE-INSTALLED, AND ARE CONNECTED TO INCOMING UTILITIES WHEN THE UNIT IS SET ON SITE.

FOUNDATION SYSTEM IS PERMITTED & INSTALLED SEPARATELY BY THE UNIT OWNER.

THIS SET IS INTENDED TO BE USED IN CONJUNCTION WITH THE MANUFACTURERS PANEL DRAWINGS AND STRUCTURAL DRAWINGS.

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: G1.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

DRAWING INDEX		REVISIONS						DRAWING INDEX		REVISIONS					
Sheet Number	Sheet Title	1	2	3	4	5	6	Sheet Number	Sheet Title	1	2	3	4	5	6
GENERAL								STRUCTURAL CONTINUED							
G1.0	COVER SHEET			3				S12	6:12 GABLE ROOF DETAILS						
G1.1	DRAWING INDEX							S13	9:12 GABLE ROOF TRUSS PLAN & PROFILE						
G1.2	DELINEATION OF PLAN REVIEW							S14	9:12 GABLE ROOF DETAILS						
G1.3	SCOPE OF WORK AND STRUCTURAL DESIGN CRITERIA	1		3				S15	3:12 MONOSLOPE ROOF TRUSS PLAN & PROFILE						
G2.0	CALGREEN							S16	3:12 MONOSLOPE ROOF DETAILS						
G2.1	CALGREEN							S17	3:12 HIP ROOF PLAN & DETAILS						
								S18	TAPERED INSULATION ROOF PLAN						
ARCHITECTURAL															
A1.0	FLOOR PLAN	1	2	3				PLUMBING							
A2.0	EXTERIOR ELEVATIONS - FOAM WEDGE ROOF							P1.0	PLUMBING NOTES, SYMBOLS, AND ABBREVIATIONS						
A2.1	EXTERIOR ELEVATIONS - GABLE ROOF 3:12 SLOPE							P2.0	PLUMBING PLANS (SHOWER)			3			
A2.2	EXTERIOR ELEVATIONS - GABLE ROOF 6:12 SLOPE							P2.1	ALTERNATE PLUMBING PLANS (BATHTUB)			3			
A2.3	EXTERIOR ELEVATIONS - GABLE ROOF 9:12 SLOPE							P2.2	PLUMBING VENT PLANS			3			
A2.4	EXTERIOR ELEVATIONS - SHED (MONOSLOPE) ROOF							P3.0	PLUMBING DETAILS (SHOWER)			3			
A2.5	EXTERIOR ELEVATIONS - QUAD HIP ROOF							P3.1	ALTERNATE PLUMBING DETAILS (BATHTUB)			3			
A3.0	WALL SECTIONS - CLIMATE ZONES 1-3 + 5-7														
A3.1	WALL SECTIONS - CLIMATE ZONES 4, 10 + 12-16														
A3.2	WALL SECTIONS - CLIMATE ZONES 8-9 + 11														
								MECHANICAL							
								M1.0	MECHANICAL NOTES, SYMBOLS, AND ABBREVIATIONS						
								M2.0	MECHANICAL PLANS						
								M3.0	MECHANICAL DETAILS			3			
STRUCTURAL															
S1	GENERAL NOTES	1													
S1.1	WIND & SNOW LIMITS							ELECTRICAL							
S1.2	SEISMIC LIMITS							E1.0	SYMBOL LIST, GENERAL NOTES & SPECIFICATIONS						
		1						E2.0	ELECTRICAL PLANS	1		3			
3 S1.4	ALLOWABLE ROOF AND CARPORT ACCESSORY OPTIONS	1													
S2	WALL ELEVATIONS	1													
S3	FOUNDATION PLAN & DETAILS	1													
S4	FLOOR-TO-FOUNDATION PLATE LOCATIONS	1													
S4.1	FLOOR-TO-FOUND. PL LOCATIONS WHEN TRUSSES ARE USED	1													
S5	FLOOR, WALL, SIP ROOF PLAN w/ DETAILS	1													
S5.1	INTERIOR WALL PARTITIONS														
S6	STEEL HINGE BEAM DETAILS														
S7	HINGE BEAM END PLATES														
S8	GRAVITY LOADS ON LOW-PITCH ROOFS														
S8.1	GRAVITY LOADS ON HIGH-PITCH ROOFS														
S9	3:12 GABLE ROOF TRUSS PLAN & PROFILE														
S10	3:12 GABLE ROOF DETAILS														
S11	6:12 GABLE ROOF TRUSS PLAN & PROFILE														

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-26852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: G1.1

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

PRE-CONSTRUCTION DISCLOSURE (DELINEATION OF PLAN REVIEW AND INSPECTION)

CALIFORNIA FACTORY-BUILT HOUSING

BXB-000012 - 2 DOOR CASITA - CALIFORNIA	BOXABL					
SECTION / DESCRIPTION	PLAN REVIEW		CODE SECTION	INSPECTION		CODE SECTION
	DAA	LEA		QAA	LEA	
FBH COMPLIANCE WITH TITLE 24, CCR PARTS 2, 2.5, 3, 4, 5, 6, 11	X		TITLE 25, CCR §3070	X	X	TITLE 25, CCR §3070 HSC §19992
DESIGN CODES, DESIGN LOADS, DESIGN CRITERIA	X		TITLE 25, CCR §3070	X		TITLE 25, CCR §3070
COMPLIANCE WITH LOCAL PLANNING AND ZONING REQUIREMENTS, INCLUDES: - LOCAL ZONE USE REQUIREMENTS - LOCAL SNOW LOAD REQUIREMENTS - LOCAL WIND PRESSURE REQUIREMENTS - STATE FIRE ZONE REQUIREMENTS - LOCAL FIRE ZONE REQUIREMENTS - BUILDING SETBACK REQUIREMENTS - SIDE AND REAR YARD REQUIREMENTS - SITE DEVELOPMENT REQUIREMENTS - PROPERTY LINE REQUIREMENTS - ARCHITECTURAL AND AESTHETIC REQUIREMENTS		X	HSC §19993		X	HSC §19993
INSTALLATION INSTRUCTIONS AND DETAILS	X		TITLE 25, CCR §3028		X	HSC §19992
MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL, FIRE SAFETY, FIRE PROTECTION, FIRE ALARM SYSTEMS AND COMPLIANCE WITH CALIFORNIA GREEN AND ENERGY CODES; FACTORY-BUILT COMPONENTS	X		TITLE 25, CCR §3070	X		TITLE 25, CCR §3070
MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL, FIRE SAFETY, FIRE PROTECTION, FIRE ALARM SYSTEMS AND COMPLIANCE WITH CALIFORNIA GREEN AND ENERGY CODES; INTER-MODULAR CONNECTIONS	X		TITLE 25, CCR §3070		X	HSC §19992
MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL, FIRE SAFETY, FIRE PROTECTION, FIRE ALARM SYSTEMS AND COMPLIANCE WITH CALIFORNIA GREEN AND ENERGY CODES; SITE-BUILT COMPONENTS		X	TITLE 25, CCR §3070		X	HSC §19992
GRADING AND EXCAVATION		X			X	HSC §19992
SITE PLAN: FOR THE ONLY PURPOSE OF CHECKING FIRE-RATING OF EXTERIOR WALLS	X		TITLE 25, CCR §3070	X		TITLE 25, CCR §3070
SITE PLAN: ALL OTHER ELEMENTS OF SITE PLAN		X	HSC §19993		X	HSC §19993
CUSTOM FOUNDATIONS		X	TITLE 25, CCR §3028		X	HSC §19992
PRE-APPROVED GENERIC FOUNDATIONS	X				X	
FACTORY-BUILT UNITS CONNECTIONS TO THE FOUNDATION	X		TITLE 25, CCR §3028		X	HSC §19992
FACTORY-BUILT UNITS CONNECTIONS TO SITE-BUILT STRUCTURES	X		TITLE 25, CCR §3028		X	HSC §19992
FIRE SPRINKLERS (IF REQUIRED)		X	TITLE 25, CCR §3070		X	HSC §19992
SITE -BUILT STRUCTURES (BASEMENTS, DECKS, GARAGES, STAIRS, RAMPS, RAILS, ETC.)		X			X	HSC §19992
CONNECTIONS TO PUBLIC UTILITIES		X			X	HSC §19992
ALL FINISH WORK THAT WAS NOT INCLUDED IN THE FACTORY-BUILT UNITS OR REQUIRED TO BE DONE AFTER INSTALLATION (PAINTING, FLOORING, ROOFING, SIGNAGE, ETC.)	X		TITLE 25, CCR §3028		X	HSC §19992
CUSTOM PITCHED OR TRUSSED ROOF CONSTRUCTION AND ROOFING		X			X	
PRE-APPROVED PITCHED OR TRUSSED ROOF CONSTRUCTION & ROOFING	X				X	
EXTENSION OF VENT PIPES THROUGH AND ABOVE SITE INSTALLED PITCHED OR TRUSSED ROOF	X				X	
INSTALLATION AND TESTING OF SMOKE DETECTOR - CO ALARM COMBO	X				X	
INSTALLATION AND TESTING OF OUTDOOR HVAC CONDENSING UNIT	X				X	
FLUSHING OF PEX LINES	X				X	CA PLUM CODE 604.1.2
ADDITIONAL SITE INSTALLED INSULATION	X				X	

NOTES:

1. WHEN DRAWINGS AND OTHER DOCUMENTS INCLUDE BOTH FACTORY BUILT AND SITE BUILT CONSTRUCTION, DAA'S APPROVAL STAMP APPLIES ONLY THE ITEMS MARKED TO BE REVIEWED BY DAA IN THE LIST ABOVE.
2. FOR ANY ITEMS NOT INCLUDED IN THE LIST ABOVE, PLAN REVIEW AND INSPECTION WILL BE ACCORDING TO THE FOLLOWING RULES:
   - 2.A. FACTORY BUILT ELEMENTS WILL BE REVIEWED BY DAA AND INSPECTED BY QAA
   - 2.B. CONNECTIONS BETWEEN FACTORY BUILT COMPONENTS OR BETWEEN FACTORY BUILT AND SITE BUILT COMPONENTS WILL BE REVIEWED BY DAA AND INSPECTED BY LEA.
   - 2.C. SITE BUILT ELEMENTS WILL BE REVIEWED AND INSPECTED BY LEA UNLESS NOTED OTHERWISE.
3. RESERVED
4. ALL OTHER SITE WORK NOTE MENTIONED ABOVE WILL BE REVIEWED AND INSPECTED BY LEA UNLESS NOTED OTHERWISE.
5. PER HCD PUBLISHED HANDBOOK OF FACTORY-BUILT HOUSING, PAGE 5:

   FBH DESIGN AND APPROVAL BY HCD THIRD-PARTY AGENCIES TYPICALLY CONSISTS OF THE FACTORY-CONSTRUCTED STRUCTURE ONLY, BUT MAY ALSO INCLUDE THE FOUNDATION, AND OTHER SITE-INSTALLED ELEMENTS, IF NOTED AND APPROVED BY THE DAA ON THE APPROVED SET OF PLANS.

   THE APPROVAL OF DAA ON THIS SET OF PLANS INCLUDES THE FOLLOWING:

   - 5.A. GENERIC FOUNDATION DESIGN
   - 5.B. AN OPTION FOR A PITCHED OR TRUSSED, SITE-BUILT ROOF CONSTRUCTION AND ROOFING DESIGN

CA FACTORY-BUILT HOUSING PROGRAM NOTES

- THESE PLANS ARE SUBMITTED TO CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT (HCD) UNDER THE CALIFORNIA FACTORY-BUILT HOUSING PROGRAM, IN ACCORDANCE WITH CALIFORNIA HEALTH AND SAFETY CODE - HSC, DIVISION 13 – HOUSING, PART 6 – FACTORY-BUILT HOUSING AND CALIFORNIA CODE OF REGULATIONS, TITLE 25, CHAPTER 3, SUBCHAPTER 1
- FBH MODEL PLANS ARE NOT LIMITED TO A SPECIFIC SITE AND CAN BE INSTALLED WITHIN THE STATE OF CALIFORNIA WHEREVER THE DESIGN CRITERIA MATCH OR EXCEED SITE CRITERIA, PURSUANT TO PROVISIONS AND LIMITATIONS SET FORTH IN CALIFORNIA HEALTH AND SAFETY CODE, ARTICLES 19981 AND 19993
- PURSUANT TO SECTION 19981(A) OF THE HEALTH AND SAFETY CODE: ALL FACTORY-BUILT HOUSING BEARING AN INSIGNIA OF APPROVAL PURSUANT TO SECTION 19980 SHALL BE DEEMED TO COMPLY WITH THE REQUIREMENTS OF ALL ORDINANCES OR REGULATIONS ENACTED BY ANY CITY, CITY AND COUNTY, COUNTY, OR DISTRICT WHICH MAY BE APPLICABLE TO THE CONSTRUCTION OF HOUSING. NO CITY, CITY AND COUNTY, COUNTY, OR DISTRICT SHALL REQUIRE SUBMITTAL OF PLANS FOR ANY FACTORY-BUILT HOUSING MANUFACTURED, OR TO BE MANUFACTURED, PURSUANT TO THIS PART FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH THIS PART OR THE REGULATIONS PROMULGATED THEREUNDER, OR FOR DETERMINING COMPLIANCE WITH ANY LOCAL CONSTRUCTION REQUIREMENT, EXCEPT AS PROVIDED IN SECTION 19993.
- PURSUANT TO SECTION 19981(B) OF THE HEALTH AND SAFETY CODE, NO FACTORY-BUILT HOUSING BEARING A DEPARTMENT INSIGNIA OF APPROVAL PURSUANT TO SECTION 19980 SHALL BE IN ANY WAY MODIFIED PRIOR TO INSTALLATION UNLESS APPROVAL IS FIRST OBTAINED FROM THE DEPARTMENT
- PURSUANT TO SECTION 19981(C) OF THE HEALTH AND SAFETY CODE, NO FACTORY-BUILT HOUSING SHALL BE IN ANY WAY MODIFIED DURING INSTALLATION UNLESS APPROVAL FOR SUCH MODIFICATION IS FIRST OBTAINED FROM THE LOCAL ENFORCEMENT AGENCY
- PURSUANT TO SECTION 19993 OF THE HEALTH AND SAFETY CODE: (A) LOCAL USE ZONE REQUIREMENTS, LOCAL SNOW LOAD REQUIREMENTS, LOCAL WIND PRESSURE REQUIREMENTS, LOCAL FIRE ZONES, BUILDING SETBACK, SIDE AND REAR YARD REQUIREMENTS, SITE DEVELOPMENT AND PROPERTY LINE REQUIREMENTS, AS WELL AS THE REVIEW AND REGULATION OF ARCHITECTURAL AND AESTHETIC REQUIREMENTS ARE HEREBY SPECIFICALLY AND ENTIRELY RESERVED TO LOCAL JURISDICTIONS NOTWITHSTANDING ANY REQUIREMENT OF THIS PART.
- (B) LOCAL REQUIREMENTS IMPOSED ON FACTORY-BUILT HOUSING PURSUANT TO THE AUTHORITY GRANTED BY THIS SECTION SHALL NOT VARY SUBSTANTIALLY FROM THE REQUIREMENTS IMPOSED ON OTHER RESIDENTIAL BUILDINGS OF SIMILAR SIZE

ABBREVIATIONS

FBH	FACTORY-BUILT HOUSING
HCD	CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DAA	HCD APPROVED DESIGN APPROVAL AGENCY
QAA	HCD APPROVED QUALITY ASSURANCE AGENCY
LEA	LOCAL ENFORCING AGENCY

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: G1.2

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

FACTORY SCOPE OF WORK

- ALL EXTERIOR AND INTERIOR WALLS, FLOORS AND ROOFS ARE PRE-BUILT IN THE FACTORY AND PRE-FINISHED. SOME TOUCH UP WORK MAY BE NECESSARY AT PANEL HINGE POINTS ON-SITE.
- ALL INTERIOR ELECTRICAL DEVICES ARE PRE-INSTALLED AND TESTED EXCEPT FOR SMOKE DETECTORS, INTERNAL PENDANT LIGHT, AND EXTERIOR SCONCE WHICH ARE PROVIDED BUT FIELD INSTALLED.
- ALL INTERIOR PLUMBING WATER LINES & DRAINS ARE FACTORY INSTALLED EXCEPT FOR THE REFRIGERATOR WATER LINE CONNECTION AND HEAT PUMP WATER HEATER INSTALLATION.
- ALL APPLIANCES EXCEPT FOR THE REFRIGERATOR ARE PRE-INSTALLED. REFRIGERATOR AND HEAT PUMP WATER HEATER ARE INCLUDED BUT SITE-INSTALLED.
- OTHER MISCELLANEOUS COMPONENTS PER "CUSTOMER INSTALL KIT" ARE INCLUDED BUT MUST BE FIELD INSTALLED. THESE MAY INCLUDE BUT NOT BE LIMITED TO:
  - BREAKFAST BAR COUNTERTOP COMPONENTS
  - OVER THE REFRIGERATOR CABINET
  - MISC. ACCENT LIGHTING
  - SMOKE DETECTORS
  - INTERIOR AND EXTERIOR TRIM COMPONENTS

RESUME OF SITE-WORK

- REFERENCE INSTALLATION MANUAL: BXB-000012 INSTALLATION GUIDE
- BUILDING FOUNDATION (FOR MODULE)
- UNDERGROUND ELECTRICAL METER ON MODULE EXTERIOR
- UNDERGROUND SANITARY LINE TO MODULE
- UNDERGROUND WATER LINE TO MODULE
- PLACEMENT OF BLDG MODULE ONTO BLDG MODULE FOUNDATIONS
- "UNPACK" BUILDING MODULE. OPEN UP HINGED PANELS TO FORM WALLS; FLOOR + ROOF OF MODULE UPON COMPLETION OF THE ASSEMBLY OF THE MODULE.
- FINISH + SEAL PLUMBING VENTS ON SITE. BOXABL TO PROVIDE FACTORY INSTALLED HUB FITTINGS IN ROOF PANELS TO ACCOMMODATE THE VERTICAL PLUMBING VENTS.
- THE OWNER, OR FORCES UNDER THEIR DIRECTION, IS RESPONSIBLE FOR INSTALLING THE FOLLOWING:
  - BATHROOM MIRROR
  - EXTERIOR LIGHT SCONCES
  - INTERIOR PENDANT LIGHTS
  - SMOKE DETECTOR
  - REFRIGERATOR
  - RANGE
  - HEAT PUMP WATER HEATER
  - WALL MOUNTED CABINETRY OVER REFRIGERATOR
  - INTERIOR TRIM COMPONENTS
  - WEATHER RESISTANT ENCLOSURE AROUND EXTERIOR INSTALLED HEAT PUMP WATER HEATER
  - PITCHED ROOF & ADDITIONAL INSULATION AS REQUIRED FOR CLIMATE ZONE COMPLIANCE. SEE A3.0 - A3.2 FOR DETAILS.

STRUCTURAL DESIGN CRITERIA

SECTION 1 - HCD INSIGNIA OF APPROVAL INFORMATION:

- INSIGNIA NO: TO BE PROVIDED BY AHJ
- MANUFACTURER: BOXABL
- MODEL: BXB-000012
- UNIT SERIAL NUMBER: TO BE DETERMINED
- DATE OF MANUFACTURE: TO BE DETERMINED
- PLAN APPROVAL NO: SEE APPROVAL STAMP
- DESIGN ROOF LIVE LOAD: 20 psf
- SEISMIC ZONE (CATEGORY): E
- DESIGN WIND LOAD: 112 MPH
- EXPOSURE: C

OTHER DESIGN CRITERIA:

- CLIMATE ZONE: ALL CLIMATE ZONES
- AUTOMATIC FIRE SPRINKLER SYSTEM: NO
- WILDLAND-URBAN INTERFACE FIRE ZONE: BUILDING IS DESIGNED TO BE LOCATED IN A WILDLAND-URBAN INTERFACE FIRE AREA. SEE A2.0 - A2.5 FOR CONSTRUCTION DETAILS
- FIRE SUPPRESSION: AUTOMATIC FIRE SPRINKLERS ARE NOT PROVIDED. FIRE SPRINKLERS WILL BE REVIEWED AND INSTALLED UNDER LOCAL AUTHORITIES

CODE: 2022 CBC

SECTION 2 - APPLIED LOADS

- ROOF LIVE LOAD: 20 psf
- SNOW LOAD: SEE TABLE AT RIGHT AND SHEET S1.1
- ROOF DEAD LEAD: 4 psf + 3 psf ALLOTTED FOR SITE INSTALLED EPDM.
  FOR HIGH-PITCHED ROOFS, THE ADDITIONAL WEIGHT VARIES. SEE TABLE 4 ON S1.1 FOR ROOFING MATERIAL WEIGHT LIMITS. [3]
- FLOOR LIVE LOAD: 40 psf
- FLOOR DEAD LOAD: 5 psf
- BASIC WIND SPEED: SEE LIMITS IN TABLE AT RIGHT.
  (ASD) qh = qz = 16.0 psf (MAX-LOW PITCH ROOFS)
  = 14.7 psf (MAX-HIGH PITCH ROOFS)
  ASEC7-16 26.10.2 [3]

SECTION 3 - SEISMIC FACTORS:

- I = 1 SEE TABLE AT RIGHT FOR Sms & Ss LIMITS
- SITE CLASS = D (default) Fa = 1.2 (MINIMUM)
- SEISMIS DESIGN CATEROGY = E (MAX ALLOWED).
- BASIC SEISMIC FORCE RESISTING SYSEM = LIGHT - FRAMED WALLS w/SHEAR PANELS OF MGO & STEEL
- R = 6.5 PER ICC-ESR #4725
- ANALYSIS PROCEDURE: *EQUIV. LATERAL FORCE*

SECTION 4 - LIMITATIONS: WIND[2] - SNOW - SEISMIC

[5]

SEE FOOTNOTE 6 FOR DETERMINATION OF WIND LOADS, SNOW LOADS & SEISMIC FACTORS AT SITE OF INSTALLATION	LOW PITCH (1/2: 12) ROOFS		HIGH PITCH ROOFS GABLE (3: 12, 6:12, 9:12), MONOSLOPE (3:12), HIP (3:12)
WIND EXPOSURE [1]	B	C	SEE SHEET S1.1
MAX. ALLOWED [4] WIND SPEED	140 mph	120 mph	
MAXIMUM ALLOWED [3] GROUND SNOW LOAD (Pg)	40 psf		
MAXIMUM ALLOWED [5] SEISMIC S_{MS}	3.30 3.1 IF STUCCO USED		SEE SHEET S1.2
MAXIMUM ALLOWED [5] SEISMIC S_S	2.75 2.58 IF STUCCO USED		SEE SHEET S1.2

1. EXPOSURE B IS URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN w/ NUMEROUS,CLOSELY SPACED OBSTRUCTIONS THAT HAVE A SIZE OF A SINGLE-FAMILY DWELLING. THESE CONDITIONS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE GREATER THAN 1,500 FT. LARGE NEARBY FIELDS OR PARKING LOTS CAN TRIGGER EXPOSURE C. [3]

   EXPOSURE C IS OPEN TERRAIN w/ SCATTERED OBSTRUCTIONS THAT HAVE HEIGHTS GENERALLY LESS THAN 30 FT. THIS INCLUDES FLAT, OPEN COUNTRY AND GRASSLANDS.

   EXPOSURE D (NOT ALLOWED) IS FLAT, UNOBSTRUCTED AREAS (MUD FLATS, SALT FLATS) AND WATER SURFACES. THESE CONDITIONS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE > 5,000 FT. THIS EXPOSURE ALSO APPLIES WHERE EXPOSURE B OR C OCCURS WITHIN THE FIRST 600 FT OF THE SITE.

2. CASITAS LOCATED ON HILLS OR WITHIN 1,000 FT OF AN ESCARPMENT WILL REQUIRE SPECIAL EVALUATION BY THE STRUCTURAL ENGINEER.
3. IF LOCATED TIGHT IN AMONG CONIFER TREES MULTIPLY LOAD BY 0.83
4. N/A
5. BASIC (ULTIMATE) WIND SPEED AS DEFINED BY THE INTERNATIONAL BUILDING CODE.
6. FIND WIND SPEED, GROUND SNOW LOAD, SEISMIC CATEGORY AND SEISMIC Sms & Ss VALUES AT ASCEHAZARDTOOL.ORG USING ASCE/SEI 7-16, RISK CATEGORY II, SITE SOIL CLASS: "D-DEFAULT". VERIFY BASIC (ULTIMATE) WIND AND GROUND SNOW LOAD VALUES WITH THE LOCAL OR COUNTY BUILDING DEPARTMENT. INSTALLER IS RESPONSIBLE FOR VERIFYING THEIR WIND, SNOW & SEISMIC FACTORS ARE WITHIN THE ALLOWABLE LIMITS IN TABLE ABOVE. [3]

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

*NOTE TO DEALER/INSTALLER: SEE STRUCTURAL SHEET S1 TO COMPLETE SITE-SPECIFIC WIND, SEISMIC AND FLOOD CONDITIONS.

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: G1.3

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ex: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to incude the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not requiredunless adopted by a city, county, or city and county as specified in Section 101.7.

301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.

The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.

Note: Repair including, but not limited to,resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.

Note: On anc after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancyor final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.

301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to e ther low-rise residential buildings high-rise residential buildings, or both. Individual sections will be de signated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only(HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

Exceptions:
1. [HCD] Accessory structures and accessory occupancies serving residential buildings shal complywith Chapter 4 and Appendic A4, as applicable.
2. [HCD] For purposes of *CALGreen*, live/work units, complying with Section 419 of the *California Building Code*, shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable.

DIVISION 4.1 PLANNING AND DESIGN

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions an Alterations
N	New

CHAPTER 4
RESIDENTIAL MANDATORY MEASURES

SECTION 4.102 DEFINITIONS

4.102.1 DEFINITIONS
The following terms are deined in Chapter 2 *(and are included here for reference)*

FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.

WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inle controls.

4.106 SITE DEVELOPMENT

4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planningto minimize negative effects in the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.

4.106.2 STORM WATER DRAINAGE AND RETENTIC8 DURING CONSTRUCTION. Projects which disturb less than one acre of soiland are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.

1. Retention basins of sufficient size shall be utilized to retain storm water on the site.
2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filteredby use of a barrier system, wattle or other method approved by the enforcing agency.
3. Compliance with a lawfully enacted sto m water management ordinance.

Note: Refer to the Sate Water Resources Contro Board for projects which disturb one acre or more of soi, or are part of a larger common plan of development which in total disturbs one acre or more of soil.

(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)

4.106.3 GRADING AND PLAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water fro entering buildings. Examples of methods to manage surface water include, but are not limited to, the following::

1. Swales
2. Water collection and disposal systems
3. French drains
4. Water retention gardens
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the *California Electrical Code*, Article 625.

Exceptions:
1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:
   1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power.
   1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4. may adversely impact the construction cost of the project.
2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.

4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-vo t branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a labeled cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40 ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.

Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the *California Electrical Code*.

4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for fut ure EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

4.106.4.2 New multifamily dwe lings, hotels and motels and new residential parking facilities.
When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the requirements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking spac requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 for further details.

4.106.4.2.1Multifamily development projects with less than 20 dwelling units; and hotels and motels with less than 20 sleeping units or guest rooms.
Thenumber of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.

1.EV Capable. Ten (10) percent of the total number of parking spaces on a buildingsite, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable o supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.

The service panel or subpenel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.

Exceptions:

1.When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number of EV capable spaces.

2.When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable spaces, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed.

Notes:

a.Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.

b.There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use.

2.EV Ready. Twenty-five 25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.

Exception: Areas of parking facilities served by parking lifts.

4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more sleeping units or guest rooms
Thenumber of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.

1.EV Capable. Ten (10) percent of the total number of parking spaces on a buildingsite, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable o supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.

The service panel or subpenel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.

Exception: When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of parking spaces required by Section 4.106.4.2.2, Item 5, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed over the five 5) percent required.

Notes:

a.Construction documents shall show locations of future EV spaces.

b.There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use.

2.EV Ready. Twenty-five 25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.

Exception: Areas of parking facilities served by parking lifts.

3.EV Chargers. Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. Where common use parking is provided, at least one EV charger shall be located in the common use parking area and shall be available for use by all residents or guests.

When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall have a capacity of not less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical capacity to the required EV capable spaces.

4.106.4.2.2.1 Electric vehicl charging stations (EVCS).
Electric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.

Exception: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable requirements.

4.106.4.2.2.1.1 Location.
EVCS shall comply with at least one of the following options:

1.The charging space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.

2.The charging space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building.

Exception: Electric vehicle charging stations designedand constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1 and Section 4.106.4.2.2.1.2, Item 3.

4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions.
The charging spaces shall be designed to comply with the following.

1.The minimum length of each EV space shall be 18 feet (5486 mm).

2.The minimum width of each EV space shall be 9 feet (2743 mm).

3.One in every 25 charging spaces, but not less than one shall also have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).

a.Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.

4.106.4.2.2.1.3 Accessible EV spaces.
In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE when installed, shall comply with the accessibility provisions for EV chargers in he California Building Code, chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 1109A.

4.106.4.2.3 EV space requirements.
1.Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter).The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box orenclosure in close proximity to the location or the proposed location of the EVspace. Construction documents shall identify the raceway termination point, receptacle or charger location, as applicable. The service panel and/ or subpanel shall have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device installed, or space(s) reserved to permit installation of a branch circuit overcurrent protective device.

Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity t: the location or the proposed location of the EV space, at he time of original construction in accordance with the California Electrical Code.

2.Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the location of installed or future EV spaces, receptacles or EVchargers. Construction documents shall also provide information on amperage of installed or future receptacles e EVSE, raceway method(s), wiring schematics and electrical load calculations. Pan design shall be based upon a 40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.

Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space at the time of original construction in accordance with the California Electrical Code.

4.106.4.2.4 Identification.
The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE".

4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities servingexisting multifamily buildings.
When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE.

Notes:

1.Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.

2.There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4.

Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates

4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.

4.303.1.3 Showerheads.

4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 ps. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

4.303.1.3.2 Multiple showerheads serving one shower. When a shower is servedby more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

4.303.1.4 Faucets.

4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.

4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum low rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.

4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.

4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

4.303.1.4.5 Pre-rinse spray valves.
When installed, shall meet the requirements in the *California Code of Regulations*, Tile 20 (Appliance Efficiency Regulations), Sections 1605.1 (h)4) Table H-2. Section 1605.3 (h)(4)(A), and Section 1607 (d)(7) and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprintedfrom the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations),Section 1605.1 (h)(4 and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS (spray force in ounce force (ozf))	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray valves manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-force(gf)]

4.303.2 Submeters for multifamily buildings and dwelling units is mixed-used residential/commercial buildings.
Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the *California Plumbing Code*.

4.303.3 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance wih the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code*.

NOTE:
THIS TABLE COMPLIES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.

TABLE - MAXIMUM FIXTURE WATER USE

FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.2 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH
URINALS	0.125 GAL/FLUSH

4.304 OUTDOOR WATER USE

4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

NOTES.

1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the *California Code Regulations*, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/

DIVISION 4.4 MATERIAL CONSERVATICN AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.

Exceptions:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not existor are not located reasonably close to the jobsite.
3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a consruction waste management plan in conformance with items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.

1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.
2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
3. Identify diversion facilities where the construction and demolition waste material collected will be taken.
4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.
5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both

4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.

Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combi ned weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1

4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items ' through 5. Section 4.408.3 or Section 4.408.4..

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.
2. Mixed construction and demolition debris (C & D) processes can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building

1. Directions to the owner or occupant that the manual shall remain with the building throughout he life cycs of the structure.
2. Operation and maintenance instructions for the following:
   a. Equipment and appliances, including water-saving devicesand systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
   b. Roof and yard drainage, including gutters and downspouts
   c. Space conditioning systems, including condensers and air ilters.
   d. Landscape irrigation systems.
   e. Water reuse systems.
3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
4. Public transportation and/or carpool options available in the area.
5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
6. Information about water-conserving landscape and irrigation design and controllers which conserve water.
7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
9. Information about state solar energy and incentive programs available.
10. A copy of all special inspections verifications required by the enforcing agency or this code.
11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.
12. Information and/or drawings identifying the location of grab bar reinforcements.

4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq.are note required to comply with the organic waste portion of this section.

DIVISION 4.5 ENVIRONMENTAL QUALITY

SECTION 4.501 GENERAL

4.501.1 Scope
The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

SECTION 4.502 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.

DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Nelsen Dais
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: G2.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O^3g ROC).
Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.

MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).
Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

4.503 FIREPLACES
4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA N sw Source Performance Standards (NSPS) emission limits as applicable, and shall have s permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.

4.504 POLLUTANT CONTROL
4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.

4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.

4.504.2.1 Adhesives, Sealants and Caulks. Ad·esives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district ules apply:

1. Adhesives,adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with section 94507.

4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.1 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.

4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(a)(1) and (f)(1) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification.
2. Field verification of on-site product containers.

TABLE 4.504.1 - ADHESIVE VOC LIMIT[1,2]
(Less Water and Less Exempt Compounds in Grams per Liter)

ARCHITECTURAL APPLICATIONS	VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOF CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL& PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVE	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACTADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TC METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOL)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

TABLE 4.504.2 - SEALANT VOC LIMIT
(Less Water and Less Exempt Compounds in Grams per Liter)

SEALANTS	VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[4]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

TABLE 4.504.5 - FORMALDEHYDE LIMITS[1]
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTION S 93120 THROUGH 93120.12

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)
4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.

4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5

4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.
5. Other methods acceptable to the enforcing agency.

4.505 INTERIOR MOISTURE CONTROL
4.505.1 General. Buildings shall meet or exceed the provisions of the *California Building Standards Code*.

4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.

4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:

1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06.
2. Other equivalent methods approved by the enforcing agency.
3. A slab design specified by a licensed design professional.

4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:

1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.
2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified.
3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.

Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.

4.506 INDOOR AIR QUALITY AND EXHAUST
4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:

1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.
   a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 90%. A humidity control may utilize manual or automatic means of adjustment.
   b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

Notes:

1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination.
2. Lighting integral to bathroom exhaust fans shall comply with the *California Energy Code*.

4.507 ENVIRONMENTAL COMFORT
4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:

1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.
3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.

Exception: Use of alternate design temperatures necessary to ensure the system functions are acceptable.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS
702 QUALIFICATIONS
702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS
703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: G2.1

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

LEGEND

1 → KEY NOTE	◇1 WINDOW TAG SEE A1.0
1 SIP PANEL	D# DOOR TAG SEE A1.0
2 INTERIOR WALL	

FLOOR PLAN KEYNOTES

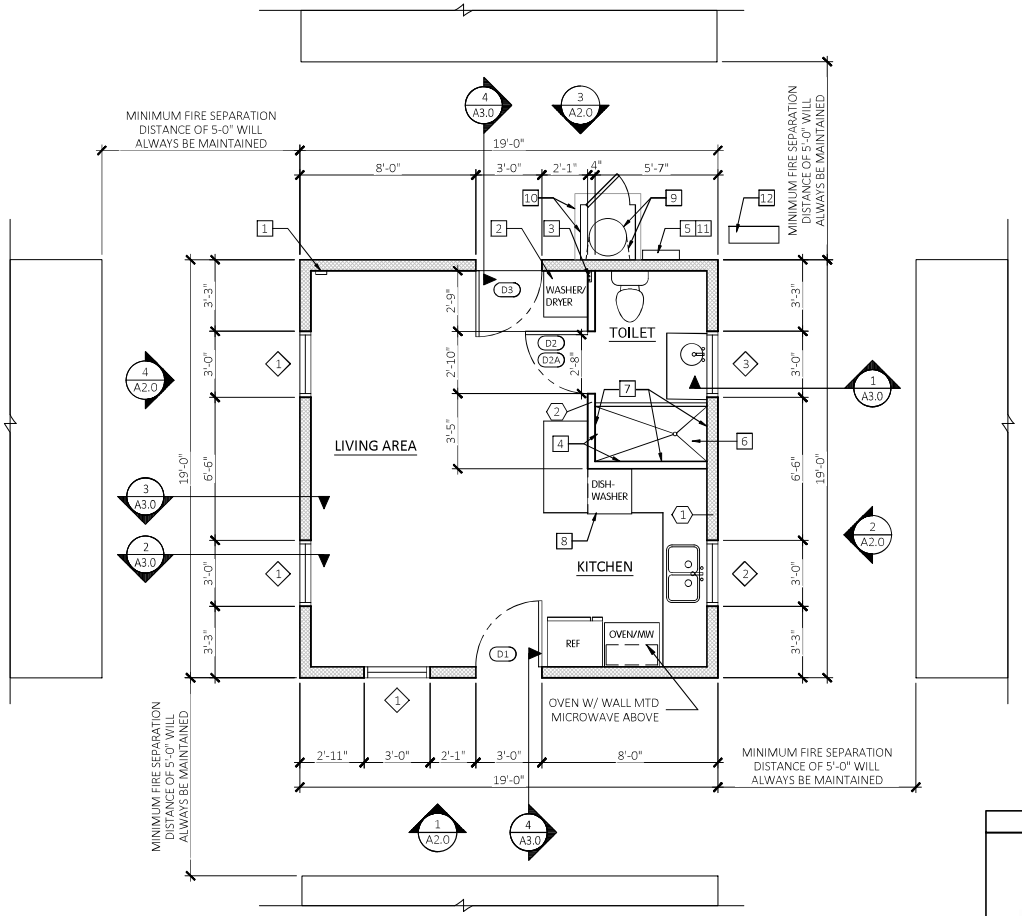
1	WALL MOUNTED SMOKE DETECTOR 20' AWAY FROM COOKING APPLIANCE
2	VENTLESS COMBO WASHER/DRYER UNIT
3	WASHER OUTLET BOX. RUN HOSES THRU PARTITIONS TO CONNECT TO WASHER/DRYER UNIT
4	PREFABRICATED SHOWER ENCLOSURE PREPPED TO RECEIVE FIELD INSTALLED GRAB BARS IF REQUIRED
5	HCD INSIGNIA OF APPROVAL TO BE PLACED AT INSIDE DOOR OF ELECTRICAL PANEL.
6	30" x 60" SHOWER WITH 2" CURB OR 30" x 60" BATHTUB SEE SHT P2.0 + P3.0 FOR SHOWER; SHT P2.1 + P3.1 FOR BATHTUB (3)
7	BATHTUB AND/OR SHOWER FLOORS AND WALLS SHALL BE FINISHED WITH A NON-ABSORBENT SURFACE A MIMINUM OF 6'-0" ABOVE FLOOR
8	UNDER COUNTER DISHWASHER
9	HEAT PUMP WATER HEATER. PROVIDE STRAPS AND ANCHORAGE TO WALL
10	30" X 30" (MIN.) GALVANIZED STEEL WATER HEATER ENCLOSURE SET ON A 36" X 36" PRECAST CONCRETE PAD. INSTALL ENCLOSURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
11	NEW ELECTRICAL SUB PANEL. MAINTAIN 36" CLEARANCE IN FRONT OF PANEL
12	NEW GROUND MOUNTED CONDENSING UNIT SET ON A PRECAST CONCRETE PAD. MAINTAIN CLEARANCE TO ELEC. PANELS AS REQUIRED.

NOTES

- ELECTRICAL OUTLETS, SWITCHES, AND CONTROLS (INCLUDING HVAC CONTROLS) SHALL BE PLACED NOT MORE THAN 48" AND NOT LESS THAN 15" ABOVE THE FINISHED FLOOR
- FIRE SPRINKLER INSTALLATION WHERE REQUIRED BY THE AHJ. IS THE RESPONSIBILITY OF THE OWNER AND INSTALLED BY OTHERS
- SEE MANUFACTURER'S DRAWINGS FOR UTILITY CONNECTIONS, PANEL DETAILS, MODULAR CONNECTIONS & ALL RELATED STRUCTURAL DETAILS
- FINAL DIMENSIONS ARE WITHIN ±1" OF DIMENSIONS SHOWN BASED ON MANUFACTURING TOLERANCES

AGING-IN-PLACE ACCOMMODATIONS:

- INSTALLING AN AGING-IN-PLACE COMPLIANT SHOWER SURROUND TO COMPLY WITH SECTION R327.1.1
- A FLOOR-MOUNTED WATER CLOSET GRAB-BAR MAY BE INSTALLED ON-SITE (BOXABL DOES NOT PROVIDE ONE)
- INTERIOR BATHROOM DOOR HAS A NET OPENING OF NOT LESS THAN 32" MEASURED WITH THE DOOR AT AN ANGLE OF 90° FROM THE CLOSED POSITION TO COMPLY WITH SECTION R327.1.3
- ELECTRICAL RECEPTACLE OUTLETS, SWITCHES, DOORBELL & CONTROL HEIGHTS ARE NO MORE THAN 48" MEASURED THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISHED FLOOR PER SECTION 327.1.2 & R327.1.4



1 / A1.0 FLOOR PLAN
SCALE: 1/4" = 1'-0"

WINDOW & DOOR SCHEDULE

NUMBER	PRODUCT	CONFIGURATION	SIZE	MATERIAL	U-FACTOR	SOLAR HEAT GAIN (SHGC)	DPI	MANUFACTURER	MODEL	BOXABL PART #	NOTES
◇1	WINDOW	SINGLE HUNG	3'-0" X 6'-0"	VINYL	0.29	0.23	+20/-20	JELD-WEN	#QW3535	WIN-000008	APPROVED OR EQUIVALENT
◇2	WINDOW	FIXED	3'-0" X 4'-0"	VINYL	0.26	0.25	+20/-20	JELD-WEN	#QT4326	WIN-000007	APPROVED OR EQUIVALENT
◇3	WINDOW	FIXED	3'-0" X 2'-0"	VINYL	0.26	0.25	+20/-20	JELD-WEN	#RE3866	WIN-000005	APPROVED OR EQUIVALENT
D1	DOOR	ENTRY DOOR	3'-0" X 8'-0"	FIBERGLASS	0.16	0	+55/-60	FANGDA	F-16 NO GRIDS	DOR-000005	APPROVED OR EQUIVALENT
D2	DOOR	STANDARD TOILET DOOR	2'-10" X 8'-0"	WOOD/GLASS	N/A	N/A	N/A	FANGDA	JHK-G01	DOR-000021	TEMPERED, FROSTED SAFETY GLASS
D2A	DOOR	OPTIONAL TOILET DOOR	2'-10" X 8'-0"	WOOD	N/A	N/A	N/A	FANGDA	LO1206147	DOR-000022	SOLID DOOR
D3	DOOR	REAR DOOR	3'-0 X 8'-0"	FIBERGLASS	0.16	0	+55/-60	FANGDA	F-16 NO GRIDS	DOR-000005	APPROVED OR EQUIVALENT

(3)

NOTE:
SEE SHEET G1.3 FOR EXTENT OF WORK TO BE DONE ON SITE.

NOTE:
ALL WINDOWS CONTAIN WUI COMPLIANT OUTER PANE

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

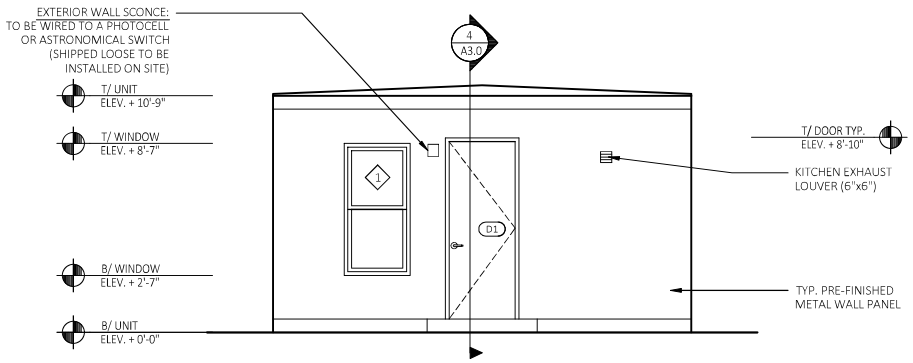
SHEET: A1.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

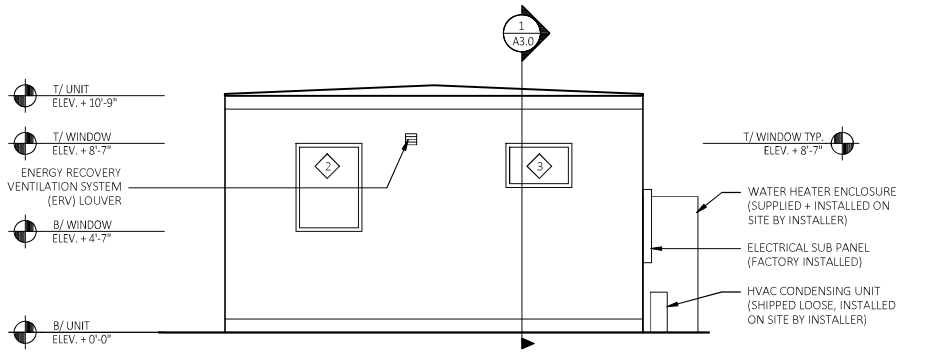
BOXABL

EXTERIOR FINISHES:
24 GAUGE METAL PANEL
INSTALLED BY MANUFACTURER

FOAM WEDGE ROOF (1/2:12 SLOPE):
1" TH @ ROOF EDGES; 5-3/4" TH @ CENTER

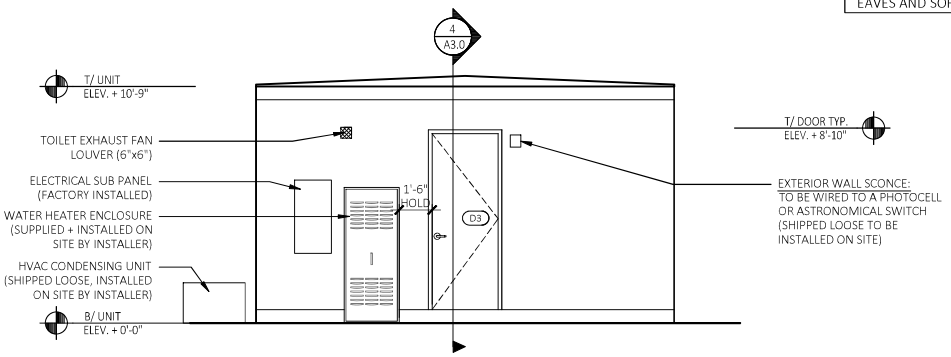


1 A2.0 FRONT ELEVATION — *OPENING PERCENTAGE = 20.56%*
SCALE: 1/4" = 1'-0"

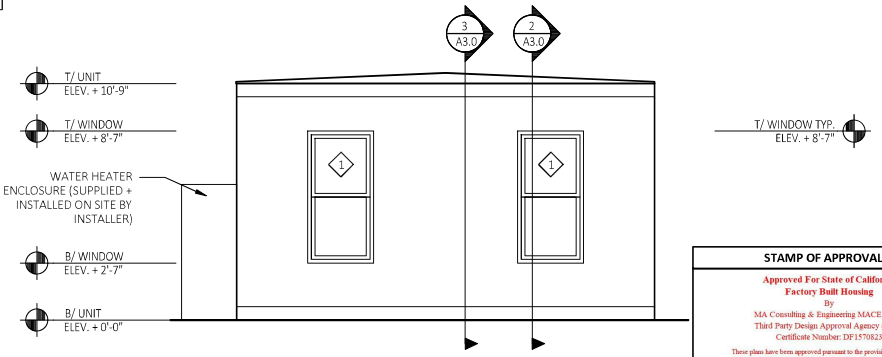


2 A2.0 RIGHT ELEVATION — *OPENING PERCENTAGE = 8.81%*
SCALE: 1/4" = 1'-0"

IF UNIT IS INSTALLED IN A WILDLIFE-URBAN INTERFACE AREA, INSTALLER MUST PROVIDE AND INSTALL WUI COMPLIANT ROOFING, FASCIA, EAVES AND SOFFIT MATERIAL



3 A2.0 REAR ELEVATION — *OPENING PERCENTAGE = 11.75%*
SCALE: 1/4" = 1'-0"



4 A2.0 LEFT ELEVATION — *OPENING PERCENTAGE = 17.62%*
SCALE: 1/4" = 1'-0"

MAXIMUM AREA OF EXT. WALL OPENINGS AND FIRE SEPARATION DISTANCE / DEGREE OF OPENING PROTECTION

BASED OFF IRC TABLE R302.1 (1) EXT. WALLS

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0 TO LESS THAN 3	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
3 TO LESS THAN 5	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
5 TO LESS THAN 10	UNPROTECTED, NONSPRINKLERED	10%
10 TO LESS THAN 15	UNPROTECTED, NONSPRINKLERED	15%
15 TO LESS THAN 20	UNPROTECTED, NONSPRINKLERED	25%

NOTE:
ALL INTAKES, GRILLES, + LOUVERS TO BE PROTECTED W/CORROSION RESISTANT SCREENS NOT LESS THAN 1/4" & NOT MORE THAN 1/2" IN SIZE (FACTORY INSTALLED)

NOTE:
AS PART OF THE INSTALLATION PROCESS OUTLINED IN THE APPROVED INSTALLATION MANUAL, APPROVAL # MAC-FBH-10121, THE INSTALLATION CONTRACTOR SHALL FIELD INSTALL WEATHER BARRIER FLASHING TAPE TO ALL PANEL SEAMS. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILS AND RECOMMENDATIONS

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

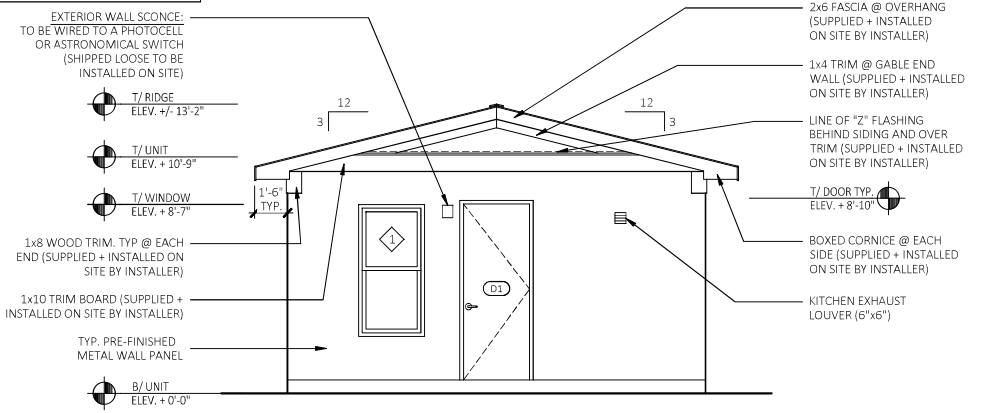
MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: A2.0

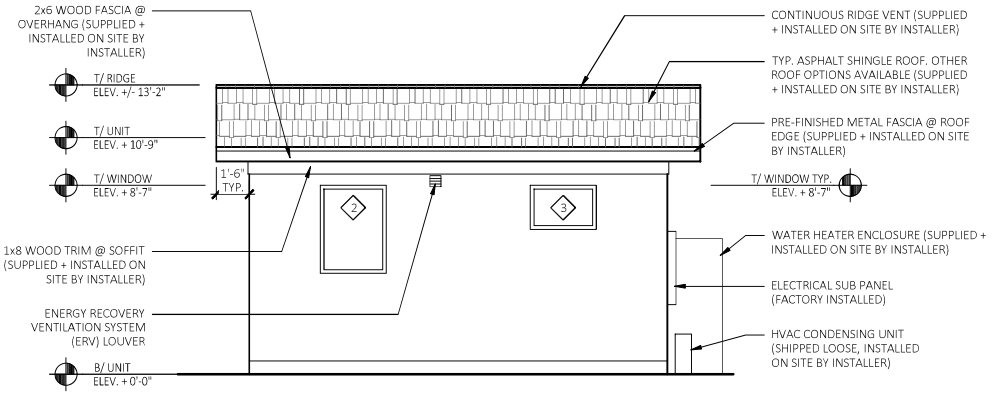
BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

EXTERIOR FINISHES:
24 GAUGE METAL PANEL
INSTALLED BY MANUFACTURER

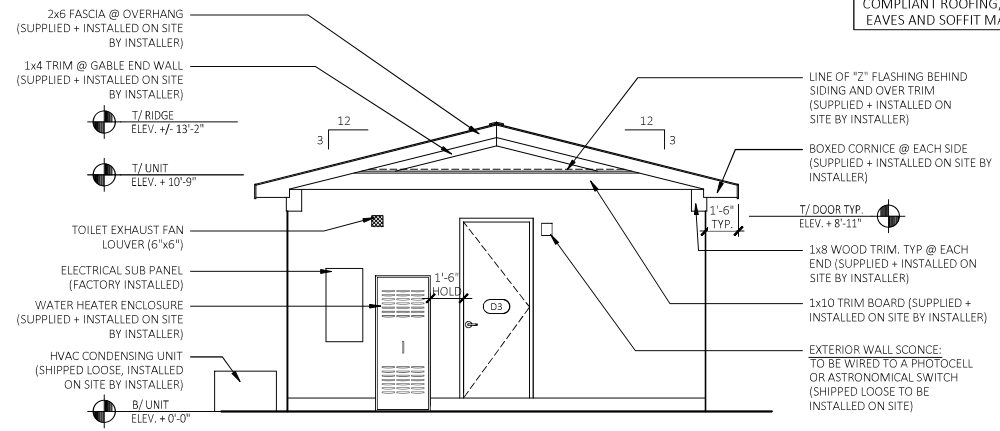


1 A2.1 FRONT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 20.56%

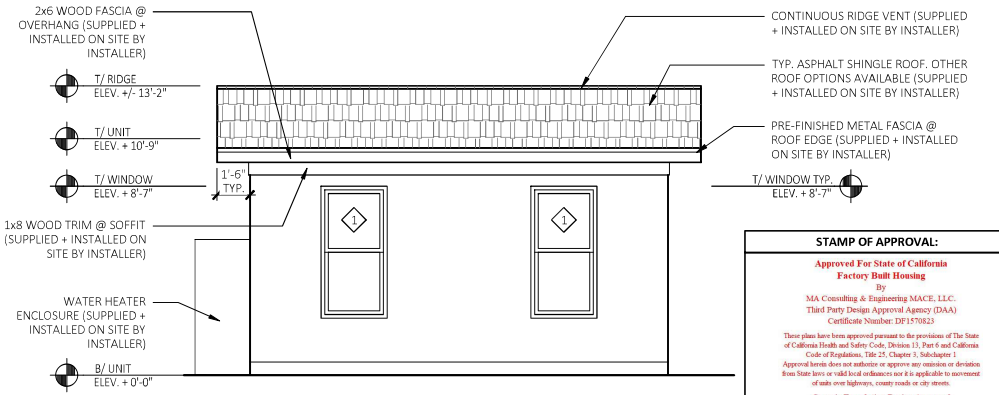


2 A2.1 RIGHT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 8.81%

IF UNIT IS INSTALLED IN A WILDLIFE-URBAN INTERFACE AREA, INSTALLER MUST PROVIDE AND INSTALL WUI COMPLIANT ROOFING, FASCIA, EAVES AND SOFFIT MATERIAL



3 A2.1 REAR ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 11.75%



4 A2.1 LEFT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 17.62%

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Johnson Lois
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

MAXIMUM AREA OF EXT. WALL OPENINGS AND FIRE SEPARATION DISTANCE / DEGREE OF OPENING PROTECTION

BASED OFF IRC TABLE R302.1 (1) EXT. WALLS

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0 TO LESS THAN 3	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
3 TO LESS THAN 5	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
5 TO LESS THAN 10	UNPROTECTED, NONSPRINKLERED	10%
10 TO LESS THAN 15	UNPROTECTED, NONSPRINKLERED	15%
15 TO LESS THAN 20	UNPROTECTED, NONSPRINKLERED	25%

GABLE ROOF 3:12 SLOPE
46.7 & 70 PSF SNOW LOADS.

THESE ARE TRUSS CAPACITIES ONLY...ALLOWABLE ROOF SNOW LOADS BASED ON WALL STRENGTH ARE OFTEN LESS, DEPENDING ON WIND AND SEISMIC CONDITIONS. GROUND SNOW LOADS ARE ABOUT 43% HIGHER. SEE S1.1, S1.2 AND S1.3

NOTE:
ALL INTAKES, GRILLES, + LOUVERS TO BE PROTECTED W/CORROSION RESISTANT SCREENS NOT LESS THAN 1/4" & NOT MORE THAN 1/2" IN SIZE (FACTORY INSTALLED)

NOTE:
AS PART OF THE INSTALLATION PROCESS OUTLINED IN THE APPROVED INSTALLATION MANUAL, APPROVAL # MAC-FBH-10121, THE INSTALLATION CONTRACTOR SHALL FIELD INSTALL WEATHER BARRIER FLASHING TAPE TO ALL PANEL SEAMS. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILS AND RECOMMENDATIONS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

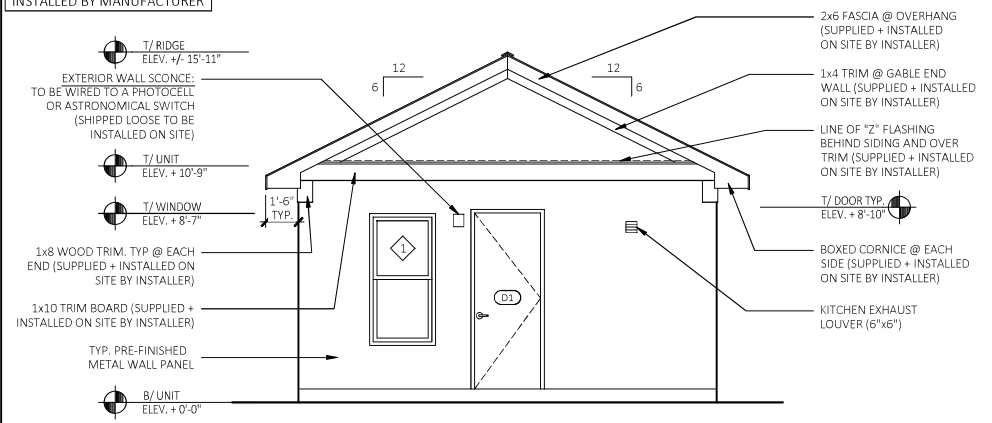
MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: A2.1

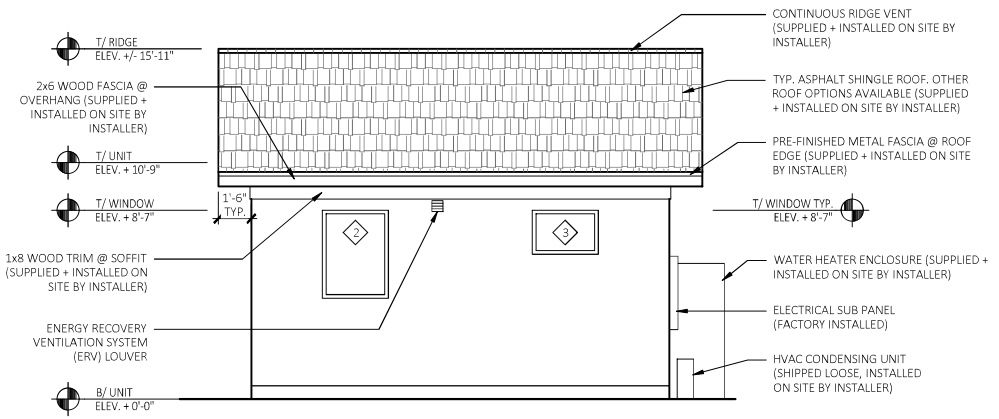
BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

EXTERIOR FINISHES:
24 GAUGE METAL PANEL
INSTALLED BY MANUFACTURER

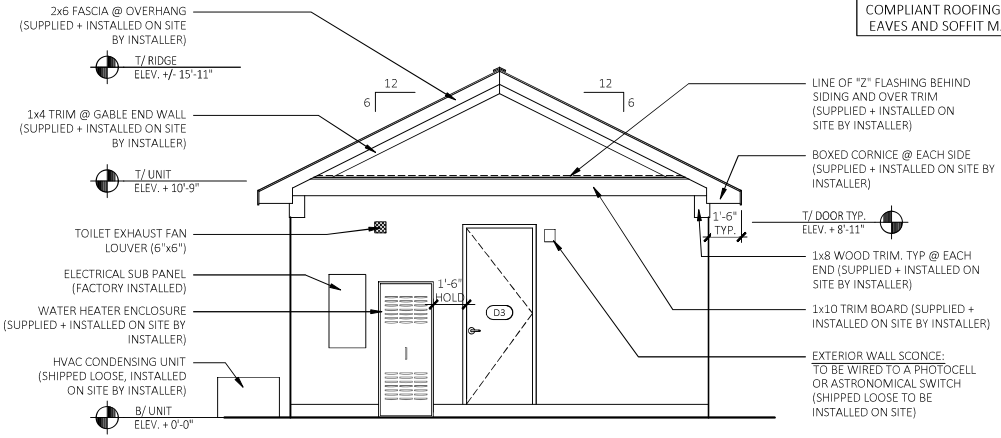


1 A2.2 FRONT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 20.56%

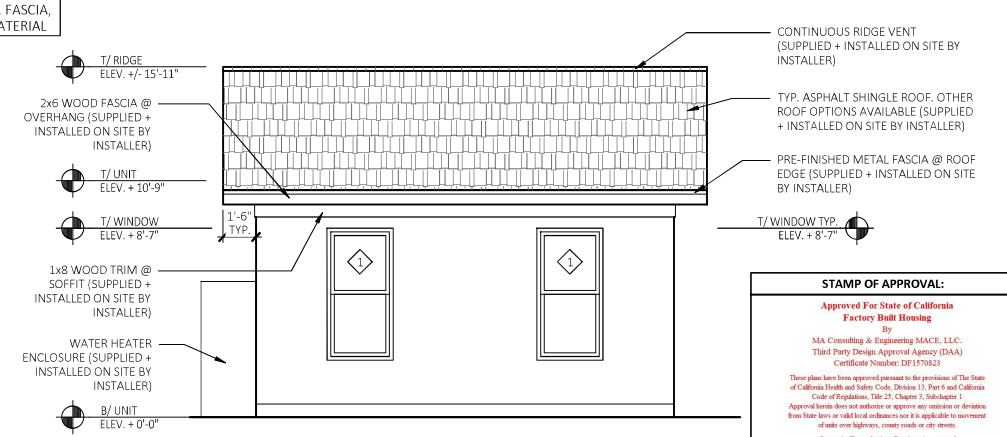


2 A2.2 RIGHT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 8.81%

IF UNIT IS INSTALLED IN A WILDLIFE-URBAN INTERFACE AREA, INSTALLER MUST PROVIDE AND INSTALL WUI COMPLIANT ROOFING, FASCIA, EAVES AND SOFFIT MATERIAL



3 A2.2 REAR ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 11.75%



4 A2.2 LEFT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 17.62%

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

MAXIMUM AREA OF EXT. WALL OPENINGS AND FIRE SEPARATION DISTANCE / DEGREE OF OPENING PROTECTION

BASED OFF IRC TABLE R302.1 (1) EXT. WALLS

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0 TO LESS THAN 3	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
3 TO LESS THAN 5	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
5 TO LESS THAN 10	UNPROTECTED, NONSPRINKLERED	10%
10 TO LESS THAN 15	UNPROTECTED, NONSPRINKLERED	15%
15 TO LESS THAN 20	UNPROTECTED, NONSPRINKLERED	25%

GABLE ROOF 6:12 SLOPE
46.7 & 70 PSF SNOW LOADS.

THESE ARE TRUSS CAPACITIES ONLY...ALLOWABLE ROOF SNOW LOADS BASED ON WALL STRENGTH ARE OFTEN LESS, DEPENDING ON WIND AND SEISMIC CONDITIONS. GROUND SNOW LOADS ARE ABOUT 43% HIGHER. SEE S1.1, S1.2 AND S1.3

NOTE:
ALL INTAKES, GRILLES, + LOUVERS TO BE PROTECTED W/CORROSION RESISTANT SCREENS NOT LESS THAN 1/4" & NOT MORE THAN 1/2" IN SIZE (FACTORY INSTALLED)

NOTE:
AS PART OF THE INSTALLATION PROCESS OUTLINED IN THE APPROVED INSTALLATION MANUAL, APPROVAL # MAC-FBH-10121, THE INSTALLATION CONTRACTOR SHALL FIELD INSTALL WEATHER BARRIER FLASHING TAPE TO ALL PANEL SEAMS. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILS AND RECOMMENDATIONS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

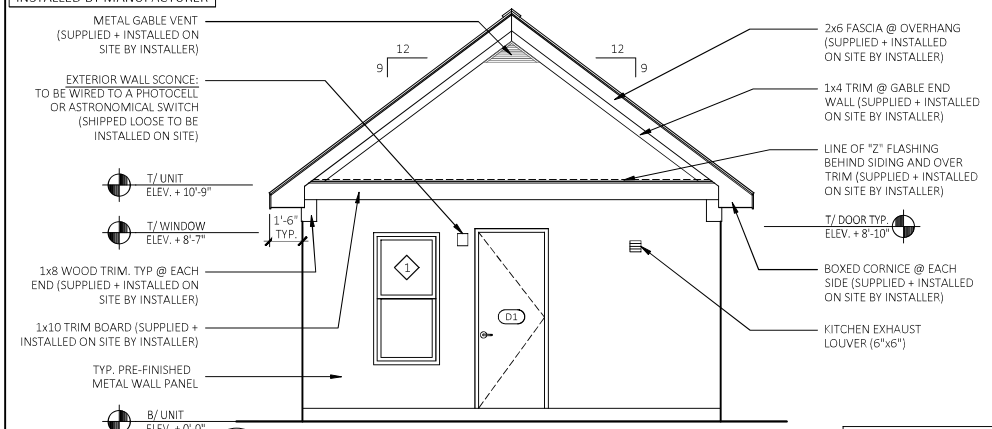
MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: A2.2

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

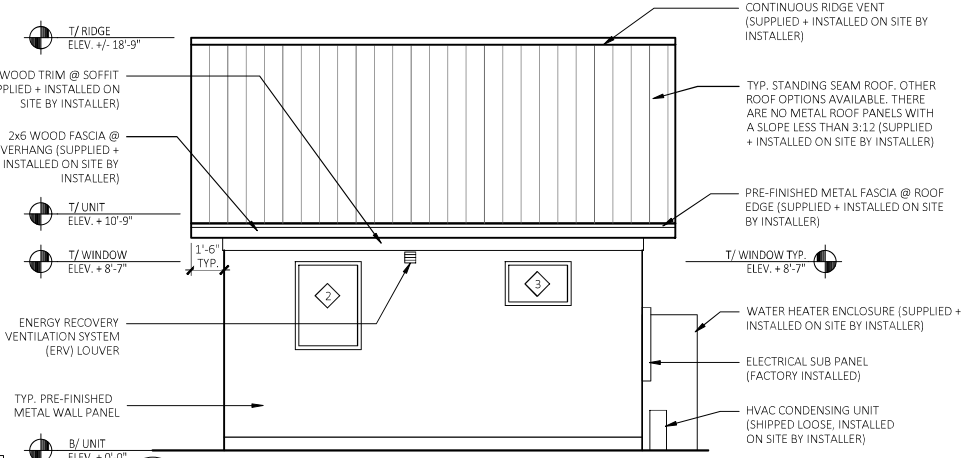
BOXABL

EXTERIOR FINISHES:
24 GAUGE METAL PANEL
INSTALLED BY MANUFACTURER

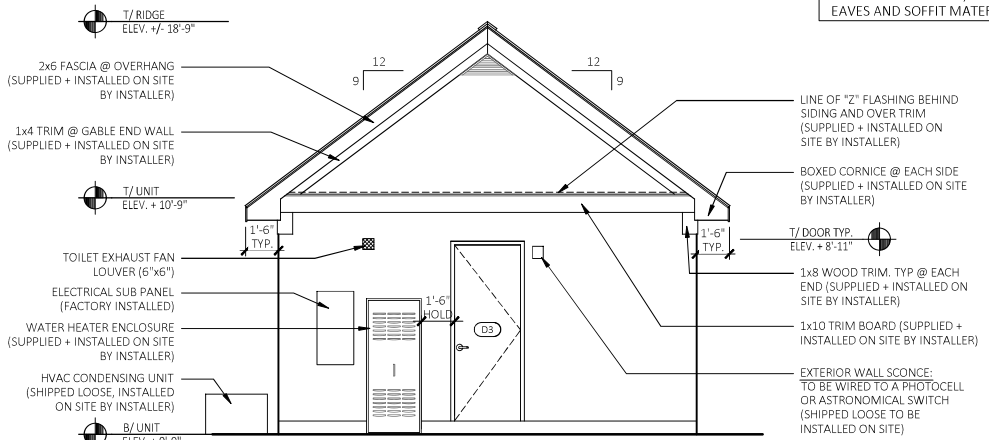


1 A2.3 FRONT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 20.56%

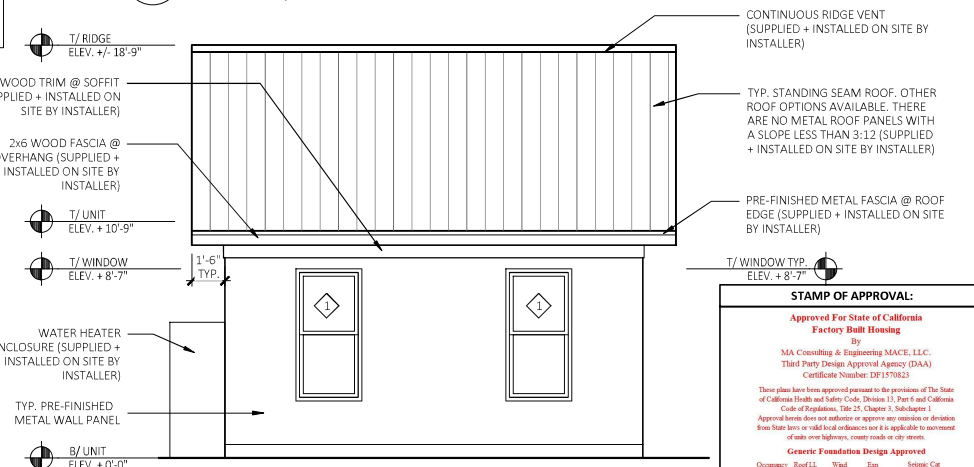
IF UNIT IS INSTALLED IN A WILDLIFE-URBAN INTERFACE AREA, INSTALLER MUST PROVIDE AND INSTALL WUI COMPLIANT ROOFING, FASCIA, EAVES AND SOFFIT MATERIAL



2 A2.3 RIGHT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 8.81%



3 A2.3 REAR ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 11.75%



4 A2.3 LEFT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 17.62%

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

MAXIMUM AREA OF EXT. WALL OPENINGS AND FIRE SEPARATION DISTANCE / DEGREE OF OPENING PROTECTION

BASED OFF IRC TABLE R302.1 (1) EXT. WALLS

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0 TO LESS THAN 3	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
3 TO LESS THAN 5	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
5 TO LESS THAN 10	UNPROTECTED, NONSPRINKLERED	10%
10 TO LESS THAN 15	UNPROTECTED, NONSPRINKLERED	15%
15 TO LESS THAN 20	UNPROTECTED, NONSPRINKLERED	25%

GABLE ROOF 9:12 SLOPE
151.5 PSF SNOW LOADS

THESE ARE TRUSS CAPACITIES ONLY...ALLOWABLE ROOF SNOW LOADS BASED ON WALL STRENGTH ARE OFTEN LESS, DEPENDING ON WIND AND SEISMIC CONDITIONS. GROUND SNOW LOADS ARE ABOUT 43% HIGHER. SEE S1.1, S1.2 AND S1.3

NOTE:
ALL INTAKES, GRILLES, + LOUVERS TO BE PROTECTED W/CORROSION RESISTANT SCREENS NOT LESS THAN 1/4" & NOT MORE THAN 1/2" IN SIZE (FACTORY INSTALLED)

NOTE:
AS PART OF THE INSTALLATION PROCESS OUTLINED IN THE APPROVED INSTALLATION MANUAL, APPROVAL # MAC-FBH-10121, THE INSTALLATION CONTRACTOR SHALL FIELD INSTALL WEATHER BARRIER FLASHING TAPE TO ALL PANEL SEAMS. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILS AND RECOMMENDATIONS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

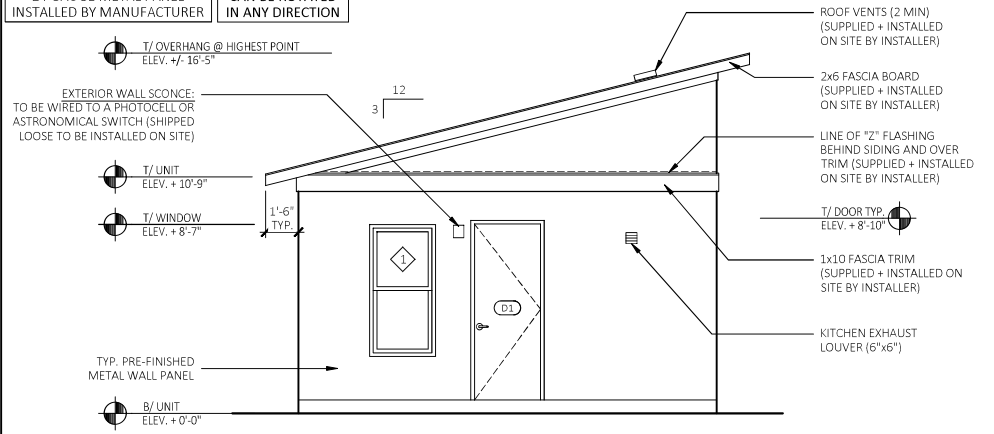
SHEET: A2.3

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

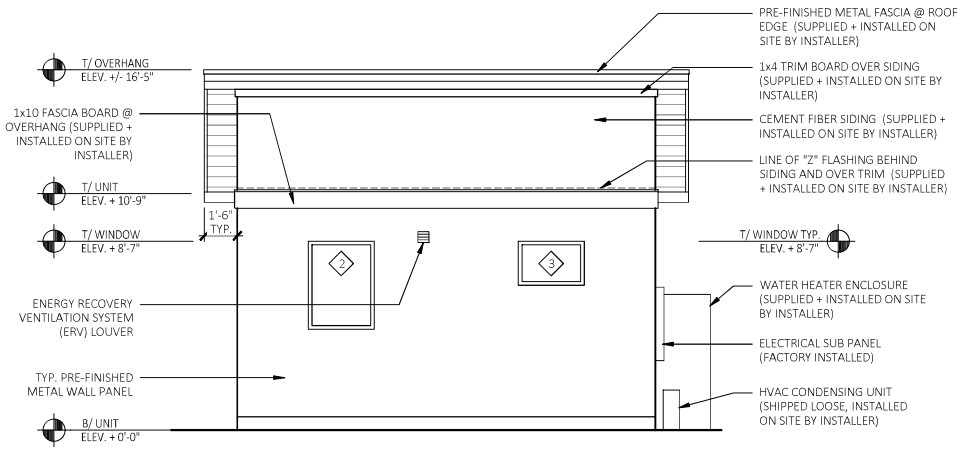
BOXABL

EXTERIOR FINISHES:
24 GAUGE METAL PANEL
INSTALLED BY MANUFACTURER

SHED ROOF:
CAN BE ROTATED
IN ANY DIRECTION

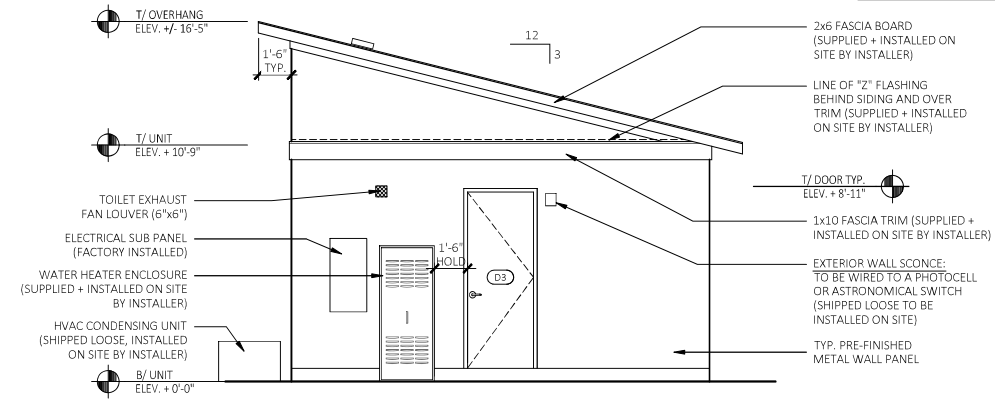


1 A2.4 FRONT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 20.56%

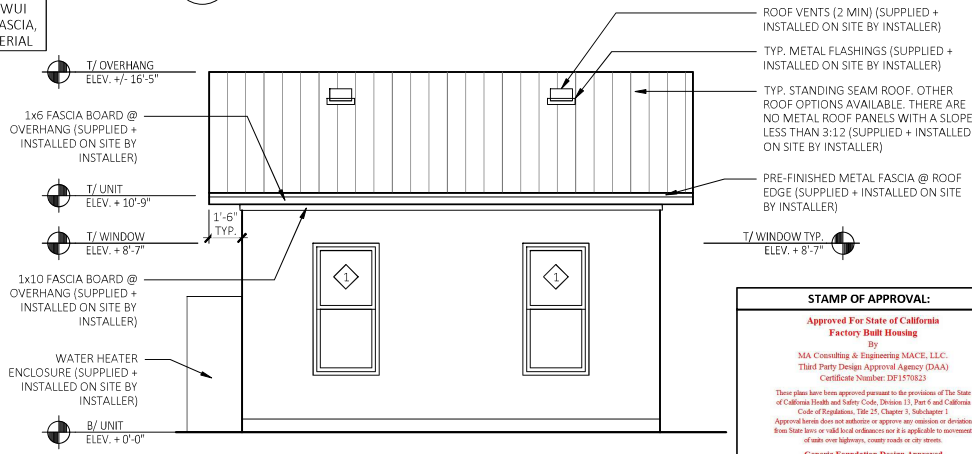


2 A2.4 RIGHT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 8.81%

IF UNIT IS INSTALLED IN A WILDLIFE-URBAN INTERFACE AREA, INSTALLER MUST PROVIDE AND INSTALL WUI COMPLIANT ROOFING, FASCIA, EAVES AND SOFFIT MATERIAL



3 A2.4 REAR ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 11.75%



4 A2.4 LEFT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 17.62%

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

MAXIMUM AREA OF EXT. WALL OPENINGS AND FIRE SEPARATION DISTANCE / DEGREE OF OPENING PROTECTION

BASED OFF IRC TABLE R302.1 (1) EXT. WALLS

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0 TO LESS THAN 3	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
3 TO LESS THAN 5	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
5 TO LESS THAN 10	UNPROTECTED, NONSPRINKLERED	10%
10 TO LESS THAN 15	UNPROTECTED, NONSPRINKLERED	15%
15 TO LESS THAN 20	UNPROTECTED, NONSPRINKLERED	25%

SHED ROOF 3:12 SLOPE
46.7 & 70 PSF SNOW LOADS.

THESE ARE TRUSS CAPACITIES ONLY...ALLOWABLE ROOF SNOW LOADS BASED ON WALL STRENGTH ARE OFTEN LESS, DEPENDING ON WIND AND SEISMIC CONDITIONS. GROUND SNOW LOADS ARE ABOUT 43% HIGHER. SEE S1.1, S1.2 AND S1.3

NOTE:
ALL INTAKES, GRILLES, + LOUVERS TO BE PROTECTED W/CORROSION RESISTANT SCREENS NOT LESS THAN 1/4" & NOT MORE THAN 1/2" IN SIZE (FACTORY INSTALLED)

NOTE:
AS PART OF THE INSTALLATION PROCESS OUTLINED IN THE APPROVED INSTALLATION MANUAL, APPROVAL # MAC-FBH-10121, THE INSTALLATION CONTRACTOR SHALL FIELD INSTALL WEATHER BARRIER FLASHING TAPE TO ALL PANEL SEAMS. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILS AND RECOMMENDATIONS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

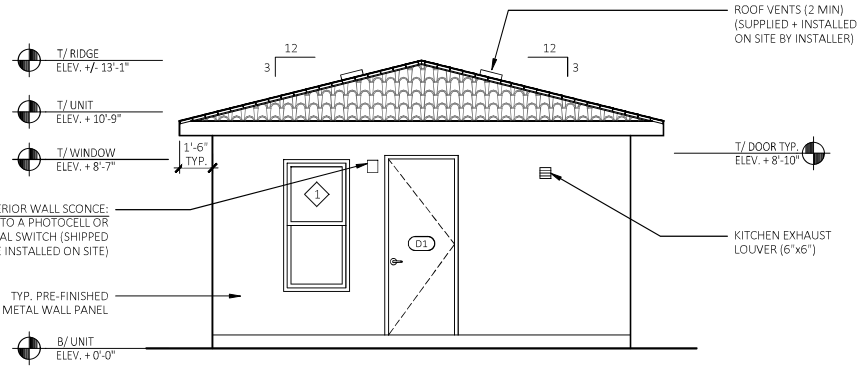
MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: A2.4

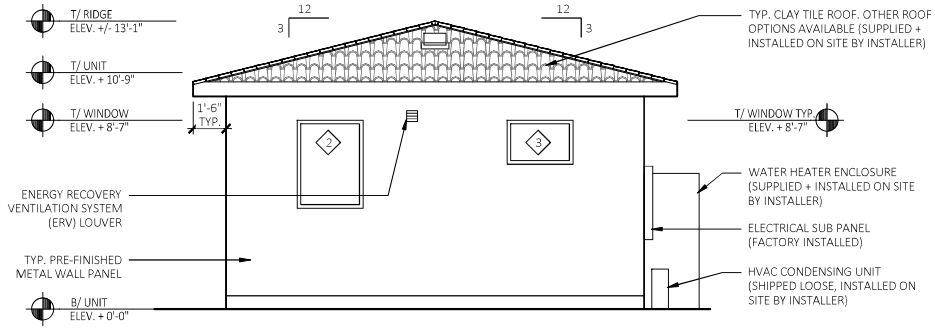
BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

EXTERIOR FINISHES:
24 GAUGE METAL PANEL
INSTALLED BY MANUFACTURER

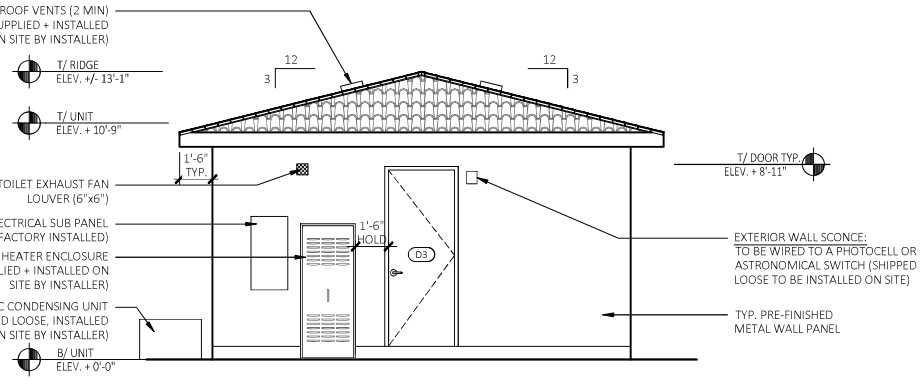


1 A2.5 FRONT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 20.56%

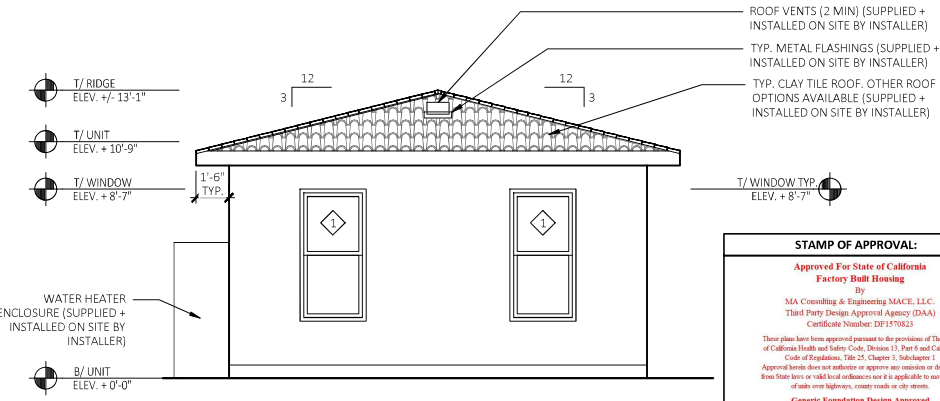


2 A2.5 RIGHT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 8.81%

IF UNIT IS INSTALLED IN A WILDLIFE-URBAN INTERFACE AREA, INSTALLER MUST PROVIDE AND INSTALL WUI COMPLIANT ROOFING, FASCIA, EAVES AND SOFFIT MATERIAL



3 A2.5 REAR ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 11.75%



4 A2.5 LEFT ELEVATION
SCALE: 1/4" = 1'-0"
OPENING PERCENTAGE = 17.62%

MAXIMUM AREA OF EXT. WALL OPENINGS AND FIRE SEPARATION DISTANCE / DEGREE OF OPENING PROTECTION

BASED OFF IRC TABLE R302.1 (1) EXT. WALLS

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0 TO LESS THAN 3	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
3 TO LESS THAN 5	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
5 TO LESS THAN 10	UNPROTECTED, NONSPRINKLERED	10%
10 TO LESS THAN 15	UNPROTECTED, NONSPRINKLERED	15%
15 TO LESS THAN 20	UNPROTECTED, NONSPRINKLERED	25%

HIP ROOF 3:12 SLOPE
46.7 PSF SNOW LOADS

THESE ARE TRUSS CAPACITIES ONLY...ALLOWABLE ROOF SNOW LOADS BASED ON WALL STRENGTH ARE OFTEN LESS, DEPENDING ON WIND AND SEISMIC CONDITIONS. GROUND SNOW LOADS ARE ABOUT 43% HIGHER. SEE S1.1, S1.2 AND S1.3

NOTE:
ALL INTAKES, GRILLES, + LOUVERS TO BE PROTECTED W/CORROSION RESISTANT SCREENS NOT LESS THAN 1/4" & NOT MORE THAN 1/2" IN SIZE (FACTORY INSTALLED)

NOTE:
AS PART OF THE INSTALLATION PROCESS OUTLINED IN THE APPROVED INSTALLATION MANUAL, APPROVAL # MAC-FBH-10121, THE INSTALLATION CONTRACTOR SHALL FIELD INSTALL WEATHER BARRIER FLASHING TAPE TO ALL PANEL SEAMS. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILS AND RECOMMENDATIONS

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: A2.5

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

TYPICAL ROOF COVERING (PITCHED ROOF):

SLOPED ROOF TRUSS KIT & ROOF COVERING (ASPHALT SHINGLES, CLAY TILES, ETC.) TO BE PURCHASED SEPARATELY BY THE UNIT OWNER. ROOFS TO BE INSTALLED + INSPECTED ON SITE.

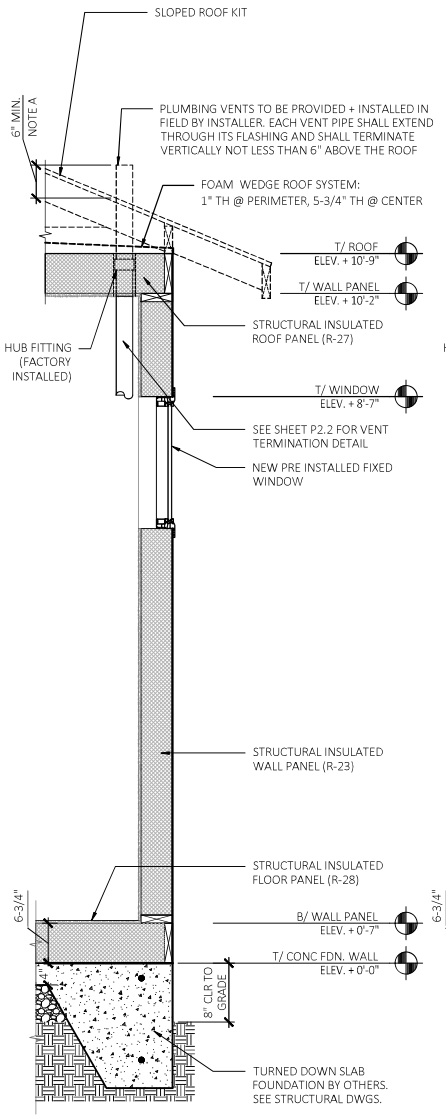
TYPICAL ROOF COVERING (LOW SLOPE ROOF):

GAF TPO FULLY ADHERED SINGLE PLY MEMBRANE OR APPROVED ADHERE EPDM ROOFING MEMBRANE WITH ALL REQUIRED FLASHINGS, AND ACCESSORIES AS NECESSARY FOR A COMPLETE AND WATERTIGHT INSTALLATION. BASE INSULATION: 1" TH @ ROOF EDGES, 5-3/4" TH @ CENTER (1/2: 12 SLOPE) (FOAM WEDGE ROOF). ROOFS TO BE INSTALLED + INSPECTED ON SITE.

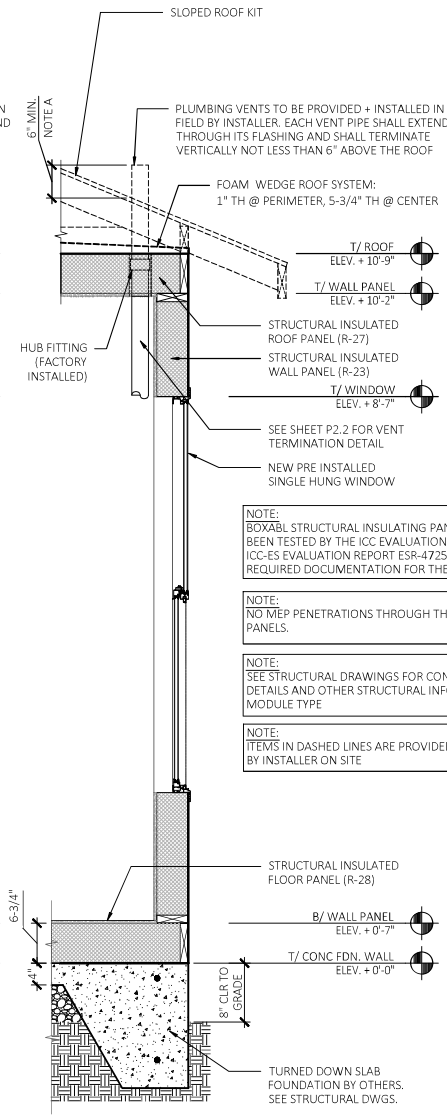
CLIMATE ZONES 1-3 + 5-7

STANDARD WALL CONSTRUCTION TYPES

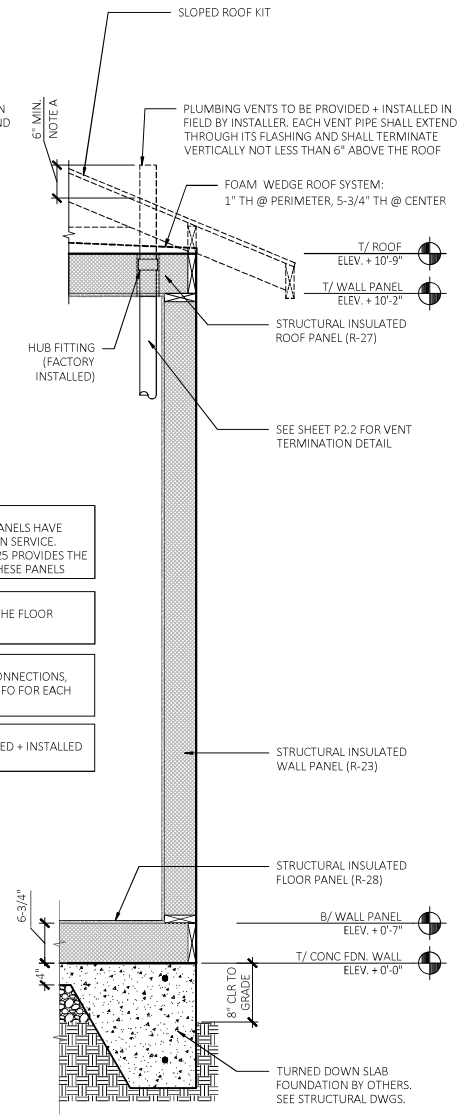
TYPICAL STRUCTURAL INSULATED WALL PANEL 1/4" MGO BOARD ADHERED TO 5 3/4" EPS FOAM INSULATION W/ 24 GAUGE METAL PANEL AS OUTSIDE FINISH.
TYPICAL STRUCTURAL INSULATED ROOF PANEL 1/4" MGO BOARD ADHERED TO 6 3/4" EPS FOAM INSULATION W/ TPO ROOFING MEMBRANE AS OUTSIDE FINISH
TYPICAL STRUCTURAL INSULATED FLOOR PANEL 1/4" MGO BOARD ADHERED TO 6 3/4" EPS FOAM INSULATION W/ 24 GAUGE METAL PANEL AS OUTSIDE FINISH.



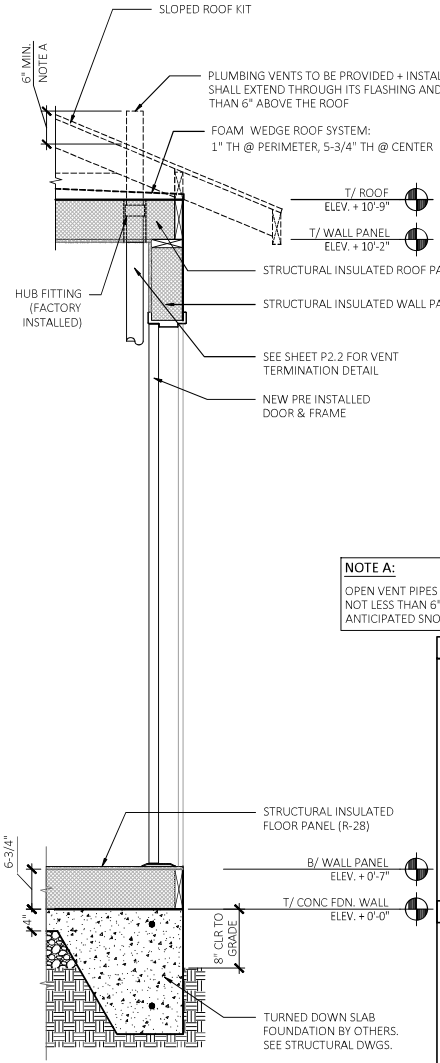
1 A3.0 WALL SECTION
SCALE: 3/4" = 1'-0"



2 A3.0 WALL SECTION
SCALE: 3/4" = 1'-0"



3 A3.0 WALL SECTION
SCALE: 3/4" = 1'-0"



4 A3.0 WALL SECTION
SCALE: 3/4" = 1'-0"

NOTE:
BOXABL STRUCTURAL INSULATING PANELS HAVE BEEN TESTED BY THE ICC EVALUATION SERVICE. ICC-ES EVALUATION REPORT ESR-4725 PROVIDES THE REQUIRED DOCUMENTATION FOR THESE PANELS

NOTE:
NO MEP PENETRATIONS THROUGH THE FLOOR PANELS.

NOTE:
SEE STRUCTURAL DRAWINGS FOR CONNECTIONS, DETAILS AND OTHER STRUCTURAL INFO FOR EACH MODULE TYPE

NOTE:
ITEMS IN DASHED LINES ARE PROVIDED + INSTALLED BY INSTALLER ON SITE

NOTE:
SEE SHEET G1.3 FOR EXTENT OF WORK TO BE DONE ON SITE.

NOTE A:

OPEN VENT PIPES THAT EXTEND THRU A ROOF SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF OR 6" ABOVE THE ANTICIPATED SNOW ACCUMULATION, WHICHEVER IS GREATER.

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: A3.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

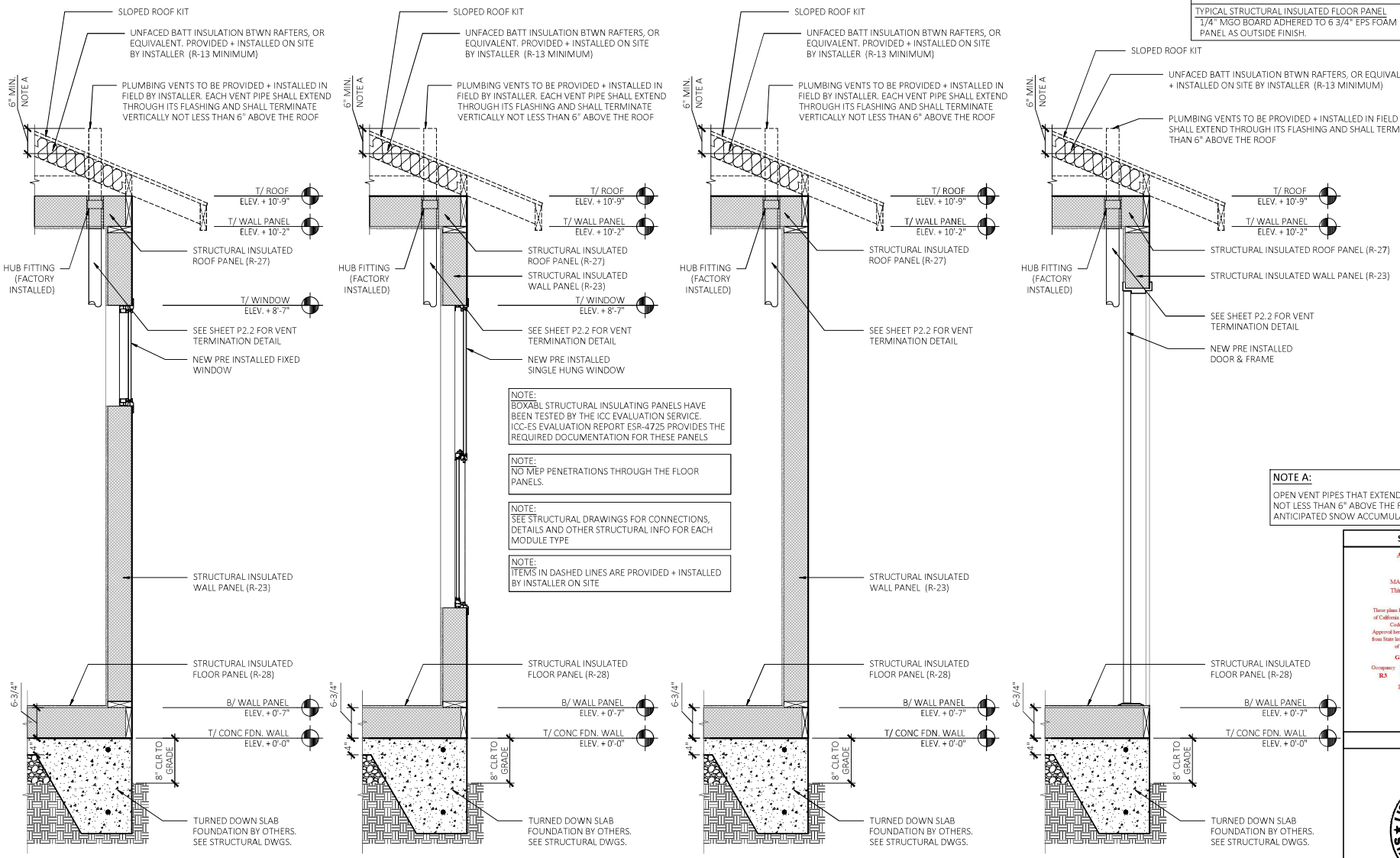
TYPICAL ROOF COVERING (PITCHED ROOF):

SLOPED ROOF TRUSS KIT & ROOF COVERING (ASPHALT SHINGLES, CLAY TILES, ETC.) TO BE PURCHASED SEPARATELY BY THE UNIT OWNER. ROOFS TO BE INSTALLED + INSPECTED ON SITE.

CLIMATE ZONES 4, 10 + 12-16

STANDARD WALL CONSTRUCTION TYPES

TYPICAL STRUCTURAL INSULATED WALL PANEL 1/4" MGO BOARD ADHERED TO 5 3/4" EPS FOAM INSULATION W/ 24 GAUGE METAL PANEL AS OUTSIDE FINISH.
TYPICAL STRUCTURAL INSULATED ROOF PANEL 1/4" MGO BOARD ADHERED TO 6 3/4" EPS FOAM INSULATION W/ TPO ROOFING MEMBRANE AS OUTSIDE FINISH
TYPICAL STRUCTURAL INSULATED FLOOR PANEL 1/4" MGO BOARD ADHERED TO 6 3/4" EPS FOAM INSULATION W/ 24 GAUGE METAL PANEL AS OUTSIDE FINISH.



NOTE:
BOXABL STRUCTURAL INSULATING PANELS HAVE BEEN TESTED BY THE ICC EVALUATION SERVICE. ICC-ES EVALUATION REPORT ESR-4725 PROVIDES THE REQUIRED DOCUMENTATION FOR THESE PANELS

NOTE:
NO MEP PENETRATIONS THROUGH THE FLOOR PANELS.

NOTE:
SEE STRUCTURAL DRAWINGS FOR CONNECTIONS, DETAILS AND OTHER STRUCTURAL INFO FOR EACH MODULE TYPE

NOTE:
ITEMS IN DASHED LINES ARE PROVIDED + INSTALLED BY INSTALLER ON SITE

NOTE:
SEE SHEET G1.3 FOR EXTENT OF WORK TO BE DONE ON SITE.

NOTE A:
OPEN VENT PIPES THAT EXTEND THRU A ROOF SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF OR 6" ABOVE THE ANTICIPATED SNOW ACCUMULATION, WHICHEVER IS GREATER.

1 A3.1 WALL SECTION
SCALE: 3/4" = 1'-0"

2 A3.1 WALL SECTION
SCALE: 3/4" = 1'-0"

3 A3.1 WALL SECTION
SCALE: 3/4" = 1'-0"

4 A3.1 WALL SECTION
SCALE: 3/4" = 1'-0"

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: A3.1

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

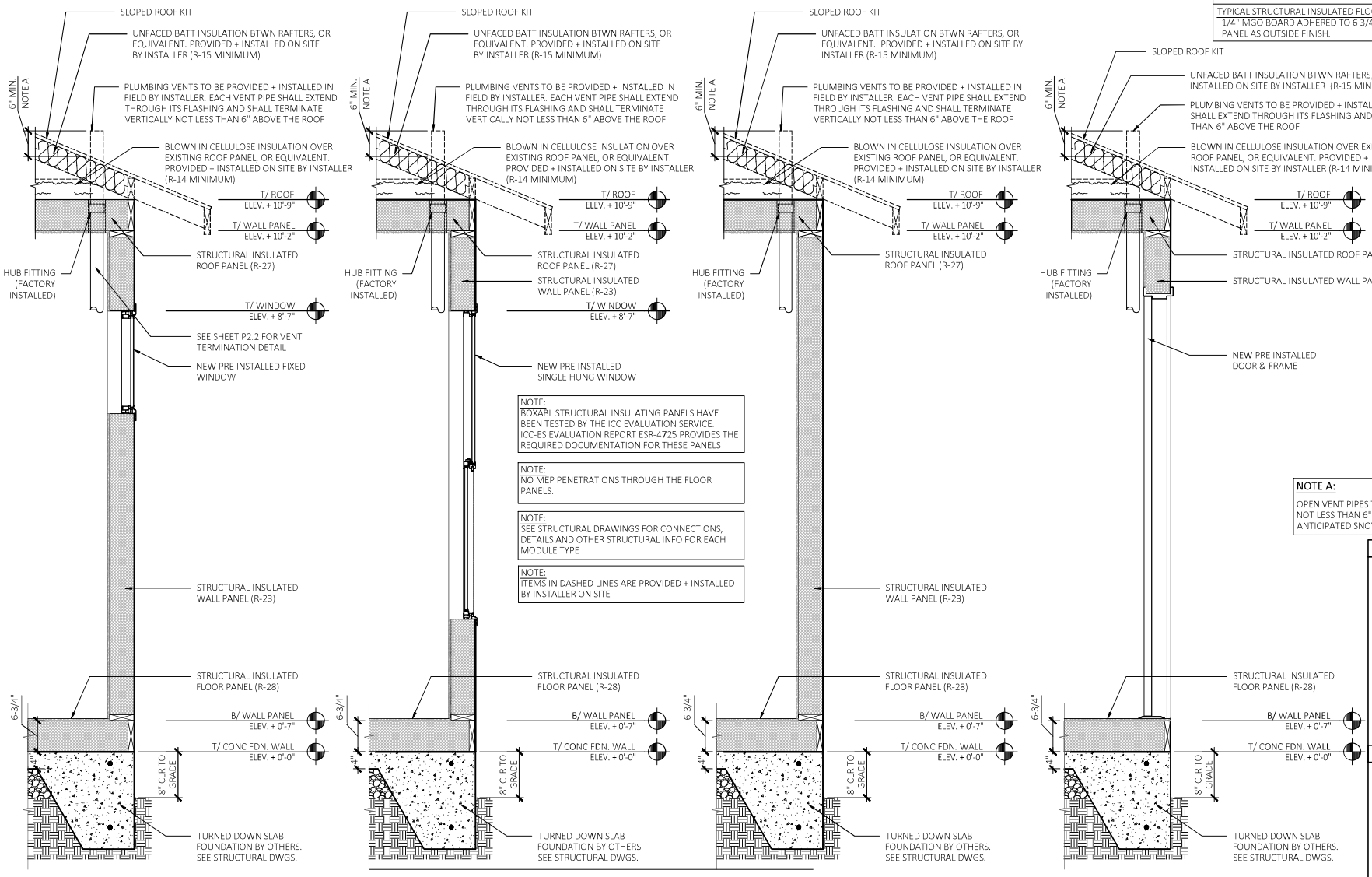
TYPICAL ROOF COVERING (PITCHED ROOF):

SLOPED ROOF TRUSS KIT & ROOF COVERING (ASPHALT SHINGLES, CLAY TILES, ETC.) TO BE PURCHASED SEPARATELY BY THE UNIT OWNER. ROOFS TO BE INSTALLED + INSPECTED ON SITE.

CLIMATE ZONES 8-9 + 11

STANDARD WALL CONSTRUCTION TYPES

TYPICAL STRUCTURAL INSULATED WALL PANEL 1/4" MGO BOARD ADHERED TO 5 3/4" EPS FOAM INSULATION W/ 24 GAUGE METAL PANEL AS OUTSIDE FINISH.
TYPICAL STRUCTURAL INSULATED ROOF PANEL 1/4" MGO BOARD ADHERED TO 6 3/4" EPS FOAM INSULATION W/ TPO ROOFING MEMBRANE AS OUTSIDE FINISH
TYPICAL STRUCTURAL INSULATED FLOOR PANEL 1/4" MGO BOARD ADHERED TO 6 3/4" EPS FOAM INSULATION W/ 24 GAUGE METAL PANEL AS OUTSIDE FINISH.



NOTE:
BOXABL STRUCTURAL INSULATING PANELS HAVE BEEN TESTED BY THE ICC EVALUATION SERVICE. ICC-ES EVALUATION REPORT ESR-4725 PROVIDES THE REQUIRED DOCUMENTATION FOR THESE PANELS

NOTE:
NO MEP PENETRATIONS THROUGH THE FLOOR PANELS.

NOTE:
SEE STRUCTURAL DRAWINGS FOR CONNECTIONS, DETAILS AND OTHER STRUCTURAL INFO FOR EACH MODULE TYPE

NOTE:
ITEMS IN DASHED LINES ARE PROVIDED + INSTALLED BY INSTALLER ON SITE

NOTE:
SEE SHEET G1.3 FOR EXTENT OF WORK TO BE DONE ON SITE.

NOTE A:
OPEN VENT PIPES THAT EXTEND THRU A ROOF SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF OR 6" ABOVE THE ANTICIPATED SNOW ACCUMULATION, WHICHEVER IS GREATER.

1 A3.2 WALL SECTION
SCALE: 3/4" = 1'-0"

2 A3.2 WALL SECTION
SCALE: 3/4" = 1'-0"

3 A3.2 WALL SECTION
SCALE: 3/4" = 1'-0"

4 A3.2 WALL SECTION
SCALE: 3/4" = 1'-0"

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

4/15/25
LICENSED ARCHITECT
JOSEPH A. DEFILIPPIS
C-28852
10/31/25
Renewal Date
STATE OF CALIFORNIA

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: A3.2

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

GENERAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION AND SUBJECT TO INSPECTION.
2. HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS PART OF THE PLUMBING WORK.
3. ALL AUTHORITIES HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST THREE WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
4. THE WORK INCLUDED PROVIDING THE PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM.
5. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURE AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURES FOR EXACT LOCATIONS.

BASIC MATERIALS AND METHODS

1. MATERIALS SHALL BEAR UNDERWRITER LABEL WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED AND LISTED BY UNDERWRITER LABORATORIES, INC. MATERIALS, EQUIPMENT AND APPLIANCES SHALL CONFORM TO THE LATEST STANDARDS OF:
   ANSI -AMERICAN NATIONAL STANDARDS INSTITUTE
   ASHRAE -AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
   ASME -AMERICAN SOCIETY OF MECHANICAL ENGINEERS
   ASTM -AMERICAN SOCIETY FOR TESTING ENGINEERS
   NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION

COORDINATION

1. COORDINATE WITH THE WORK OF OTHER TRADES.
2. REFER TO ARCHITECTURAL DRAWINGS OR CONSULT ARCHITECT FOR EXACT LOCATION OF FIXTURES, EQUIPMENT, ETC., AND FINAL FINISHED ELEVATIONS PRIOR TO ANY INSTALLATION WORK.
3. COORDINATE WITH GENERAL CONTRACTOR WHO SHALL CONSULT WITH THE OWNER FOR ALLOWABLE DAYS THAT WORK CAN BE PERFORMED AND TO SCHEDULE SYSTEM SHUT DOWNS AS REQUIRED FOR RELOCATION OF RISERS, ETC.

INSTALLATION - GENERAL

1. LISTED AND APPROVED THROUGH PENETRATION SYSTEM SHALL BE USED ON ALL PLUMBING PENETRATIONS OF FIRE RATED ASSEMBLIES.
2. EXPOSED PIPING IN FINISHED AREA SHALL BE WITH CHROME PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA.
3. ALL PIPING SHALL BE CONCEALED IN CABINETS AND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED.
4. CUT AND PATCH EXISTING FLOOR, WALL OR CEILING CONSTRUCTION AS REQUIRED FOR THE INSTALLATION WORK.
5. SLEEVE OR CORE-DRILL FLOOR SLABS, WALLS, ETC. AS REQUIRED FOR PIPING AND FIRE STOP OPENING AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS, JOIST, ETC. BEFORE DRILLING.
6. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOF, ETC. ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMAN SKILLED IN THEIR RESPECTIVE TRADES.
7. ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION.
8. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.
9. PIPING ROUTED IN EXTERIOR WALLS SHALL BE ROUTED ON THE INTERIOR SIDE OF BUILDING WALL INSULATION.
10. ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, CLEANOUTS, ETC. ARE CONCEALED WITHIN CEILINGS AND WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THRU LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.
11. THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL FOR SANITARY JOINT.

DOMESTIC WATER PIPING

1. PROVIDE PRESSURE REDUCING VALVE ON PLUMBING SYSTEMS WHERE THE INCOMING WATER SERVICE PRESSURE IS IN EXCESS OF 80 PSI.
2. HOT AND COLD WATER PIPING SHALL BE PEX TUBING. PROVIDE WATER HAMMER ARRESTORS PER DRAWINGS.
3. PROVIDE ISOLATION VALVES FOR EACH BRANCH OFF MAIN SUPPLY.
4. SHUT-OFF VALVES WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE OR OTHER EQUIPMENT ITEM TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT.
5. VALVE LOCATION TAGS REQUIRED ON ALL SHUT-OFFS AND LOCATION CHART REQUIRED.
6. THE DOMESTIC WATER SYSTEM SHALL BE FLUSHED, PRESSURE TESTED AND PURIFIED. TEST WATER UNDER 80-100 PSIG HYDROSTATIC PRESSURE FOR 15 MINUTES MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT UNTIL STANDARDS ARE ACHIEVED. ALL PIPING SYSTEMS SHALL BE SUBJECTED TO A DISINFECTION PROCEDURE PER THE RULES AND REGULATIONS OF THE LOCAL AUTHORITIES.
7. HOT WATER PIPING SHALL BE INSULATED AND HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE PER 2022 CPC 609.12.2.
8. HEAT PUMP WATER HEATER WATER PIPING CONNECTIONS ARE ROUTED TO THE EXTERIOR FROM THE FACTORY. CONNECT TO WATER HEATER ON-SITE WITH EXTERIOR RATED PIPING.

SANITARY SEWER, STORM SEWER, AND VENT PIPING

1. ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF DEMOLITION OR INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
2. PROVIDE A COMPLETE SYSTEM OF PVC VENT PIPING.
3. CONDENSATE AND INDIRECT DRAIN PIPING SHALL BE TYPE PVC OR CLEAR VINYL TUBING UP TO 1" ID.
4. DRAINAGE PIPING UNDERGROUND AND OUTSIDE THE BUILDING SHALL BE PVC PIPE AND FITTINGS. (ALTERNATE MATERIALS MAY BE ALLOWED IF APPROVED BY LOCAL CODE AUTHORITIES.)
5. DRAINAGE PIPING INSIDE THE BUILDING SHALL BE PVC PIPE AND FITTINGS WITH SCHEDULE 40 PVC VENTS TO A VENT THRU THE ROOF.
6. PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE. FIELD VERIFY LOCATION OF ALL EXISTING CLEANOUTS AND ADJUST TO NEW FINISHED FLOOR ELEVATIONS AND PROVIDE ACCESS PANELS FOR ALL WALLS AND CEILINGS.
7. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/4" PER FOOT UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, MINIMUM SLOPE SHALL BE PER CODE.
8. ALL FLOOR DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER SYSTEM.
9. THE DRAINAGE SYSTEMS SHALL BE FLUSHED AND PRESSURE TESTED.
10. CONNECT CONDENSATE, T&P, AND PAN DRAIN PIPING FOR WATER HEATER ON-SITE WITH EXTERIOR RATED MATERIAL.

SUBSTITUTIONS

1. THE NAMING OF MANUFACTURER'S IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED AS ELIMINATING THE MATERIALS, PRODUCTS OR SERVICES OF OTHER MANUFACTURER'S AND SUPPLIERS HAVING EQUIVALENT ITEMS, ANY SUBSTITUTED ITEMS MUST BE EQUAL TO THOSE SPECIFIED, PROVIDE COST SAVINGS AND BE AVAILABLE TO MEET THE CONSTRUCTION SCHEDULE.

PLUMBING SYMBOLS

— CWS —	COLD WATER SUPPLY PIPING
— HWS —	HOT WATER SUPPLY PIPING
— SAN —	SANITARY WASTE PIPING
- - - V - - -	SANITARY VENT PIPING
—— - ——	COLD WATER SUPPLY PIPING
—— - - ——	HOT WATER SUPPLY PIPING
- - - - - - -	SANITARY VENT PIPING
BFP	BACKFLOW PREVENTER
CO	CLEANOUT
CP	CHROME PLATED
DN	DOWN
DW	DISHWASHER
ET	EXPANSION TANK
FD	FLOOR DRAIN
GALV	GALVANIZED
INV. EL.	INVERT ELEVATION
IM	ICE MAKER
LAV	LAVATORY
NC	NEW CONNECTION
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH
S	SANITARY
SHR	SHOWER
SK	SINK
TMV	THERMOSTATIC MIXING VALVE
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WH	WATER HEATER
	LINE SIZE BALL GATE VALVE
	LINE SIZE BALANCING VALVE
	LINE SIZE BALL VALVE (2" & SMALLER) OR LINE SIZE BUTTERFLY VALVE (2-1/2" & LARGER)
	LINE SIZE CHECK VALVE
	LINE SIZE UNION
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	REDUCER
	THERMOMETER

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Amis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER JOSEPH G. THOMAS M 31400 Exp. 6/30/26 MECHANICAL STATE OF CALIFORNIA

WCW Engineers, Inc.
760 Creel Drive
Wood Dale, Illinois 60191
Tel. 630/595-8800
Fax 630/595-8816
www.WCWengineers.com

PLUMBING NOTES, SYMBOLS & ABBREVIATIONS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

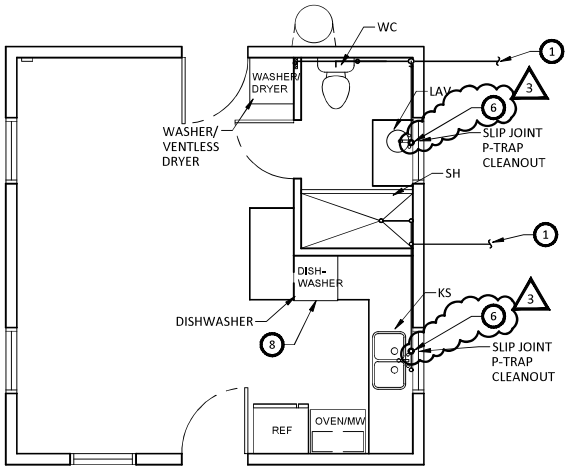
SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: P1.0

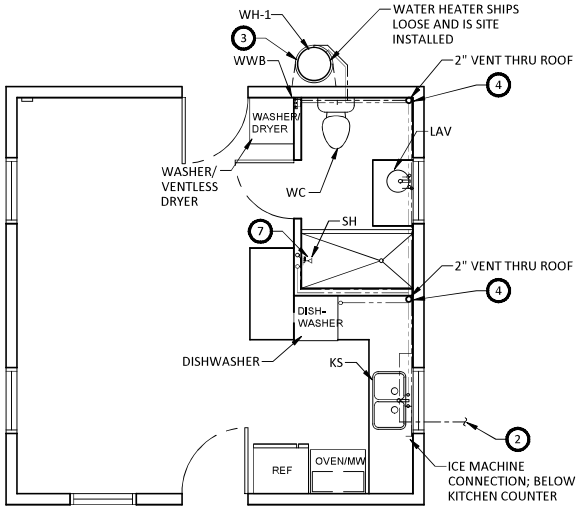
BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL



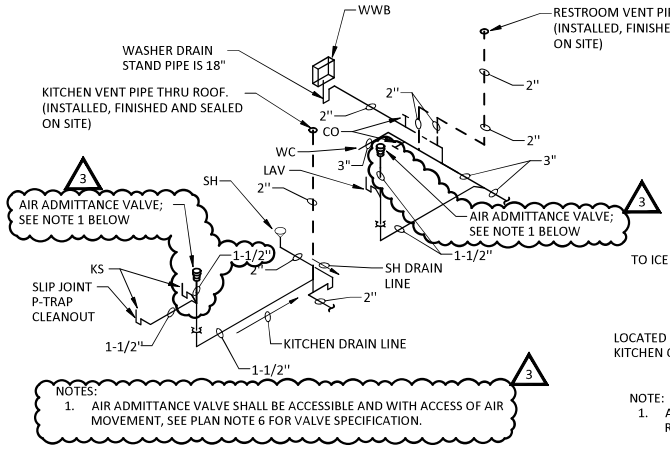
1 PLUMBING SANITARY PLAN

1/4" = 1'-0"



2 PLUMBING DOMESTIC WATER PLAN

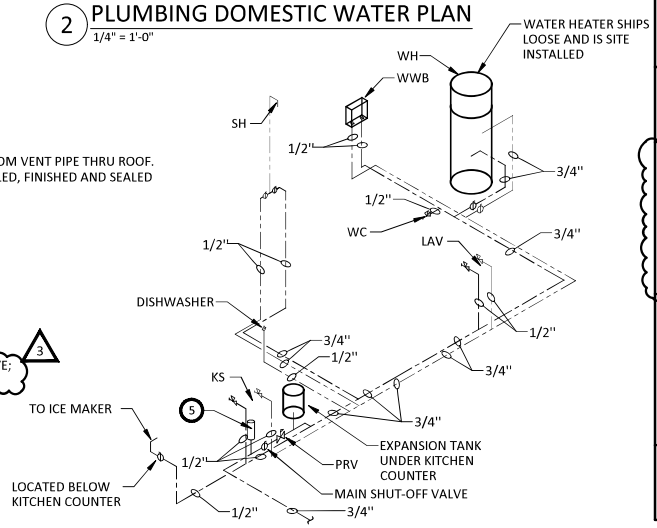
1/4" = 1'-0"



NOTES:
1. AIR ADMITTANCE VALVE SHALL BE ACCESSIBLE AND WITH ACCESS OF AIR MOVEMENT, SEE PLAN NOTE 6 FOR VALVE SPECIFICATION.

3 PLUMBING SANITARY ISOMETRIC

NOT TO SCALE



NOTE:
1. ALL HOT WATER PIPES SHALL BE WRAPPED WITH INSULATION WITH A MINIMUM R-3 INSULATING VALUE.

4 PLUMBING DOMESTIC WATER ISOMETRIC

NOT TO SCALE

PLAN NOTES

1	PROVIDE 2" & 3" SANITARY PIPING TO THE NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW SANITARY PIPING.
2	PROVIDE 3/4" DOMESTIC COLD WATER TO NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW DOMESTIC COLD WATER PIPING.
3	TANK WATER HEATER LOCATED IN A SHED, SEE ARCHITECTURAL DRAWINGS FOR SHED . PROVIDE SHUT-OFF VALVE IN BOTH HOT AND COLD WATER PIPING TO WATER HEATER
4	2" VENT THRU ROOF, SEE PIPING ISOMETRICS FOR ALL VENT PIPING. 2" COUPLING HUB AT EXTERIOR ROOF PANEL FOR ROOF VENT CONNECTION ON SITE. VENT SHALL BE 10' ABOVE BOTTOM OF FLOOR OF UNIT.
5	WHOLE HOUSE WATER HAMMER ARRESTOR MIFAB MODEL CL-A-NPB. WATER HAMMER ARRESTOR TO BE MAUFACTURED BY MIFAB OR AN APPROVED EQUIVALENT.
6	AIR ADMITTANCE VALVE FOR ENGINEERED VENT SYSTEM. OATEY SURE-VENT AIR ADMITTANCE VALVE, 1.5" x 2" PVC SCHEDULE 40 ADAPTER. VALVE SHALL BE RATED FOR 24 STACK DFU'S AND 160 BRANCH DFU'S. VALVE SHALL BE LISTED PER ANSI/ASSE 1050 AND 1051, IPC, AND IRC. SEE ICC#ESR-1664 FOR EVALUATION REPORT. SEE DRAINAGE FIXTURE UNIT CALCULATION TABLE ON P3.0.
7	CONTROL VALVES AND SHOWERHEADS SHALL BE LOCATED ON THE SIDEWALL OF SHOWER COMPARTMENTS OR OTHERWISE ARRANGED SO THAT THE SHOWERHEAD DOES NOT DISCHARGE DIRECTLY AT THE ENTRANCE TO THE COMPARTMENT SO THAT THE BATHER CAN ADJUST THE VALVES PRIOR TO STEPPING INTO THE SHOWER SPRAY.
8	EXTEND 5/8" HOSE FROM DISHWASHER TO PRE-INSTALLED AIR GAP DEVICE LOCATED IN THE THE KITCHEN SINK TAILPIECE ABOVE THE 'P' TRAP.

NO PLUMBING PIPES/LINES SHALL RUN WITHIN THE WALL/FLOOR/ROOF PANELS.

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Amis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER JOSEPH G. THOMAS M 31400 Exp. 6/30/26 MECHANICAL STATE OF CALIFORNIA

WCW Engineers, Inc. 760 Creel Drive Wood Dale, Illinois 60191 Tel. 630/595-8800 Fax. 630/595-8818 www.WCWengineers.com

PLUMBING PLANS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

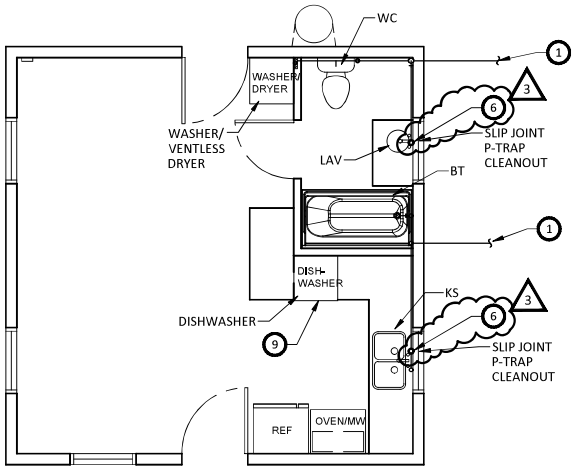
SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

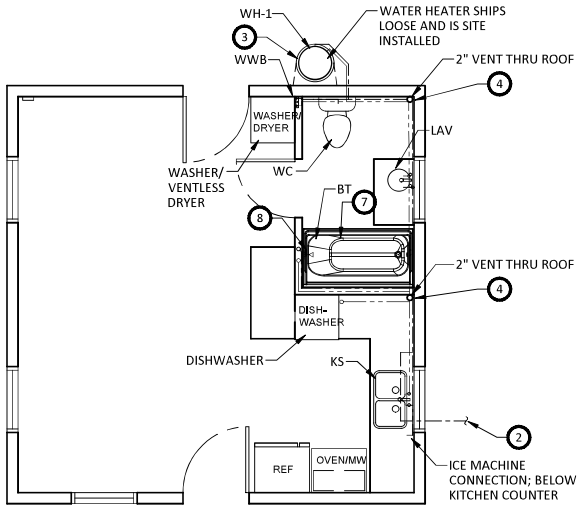
SHEET: P2.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

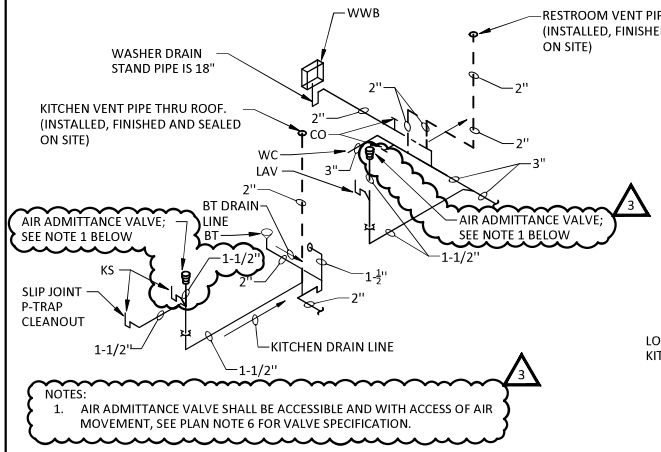
BOXABL



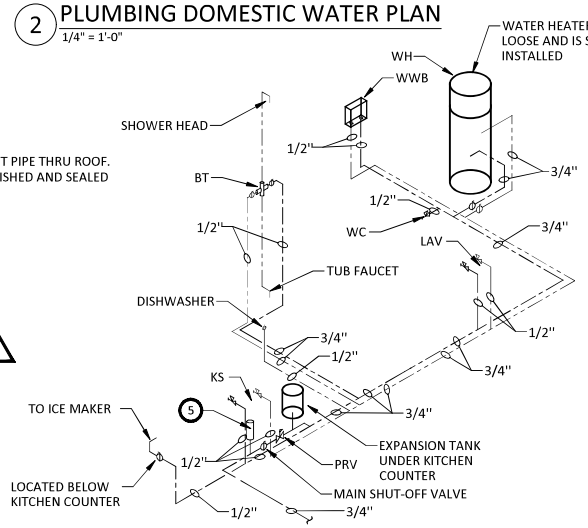
1 PLUMBING SANITARY PLAN
1/4" = 1'-0"



2 PLUMBING DOMESTIC WATER PLAN
1/4" = 1'-0"



3 PLUMBING SANITARY ISOMETRIC
NOT TO SCALE



4 PLUMBING DOMESTIC WATER ISOMETRIC
NOT TO SCALE

PLAN NOTES

1	PROVIDE 2" & 3" SANITARY PIPING TO THE NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW SANITARY PIPING.
2	PROVIDE 3/4" DOMESTIC COLD WATER TO NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW DOMESTIC COLD WATER PIPING.
3	TANK WATER HEATER LOCATED IN A SHED, SEE ARCHITECTURAL DRAWINGS FOR SHED . PROVIDE SHUT-OFF VALVE IN BOTH HOT AND COLD WATER PIPING TO WATER HEATER
4	2" VENT THRU ROOF, SEE PIPING ISOMETRICS FOR ALL VENT PIPING. 2" COUPLING HUB AT EXTERIOR ROOF PANEL FOR ROOF VENT CONNECTION ON SITE. VENT SHALL BE 10' ABOVE BOTTOM OF FLOOR OF UNIT.
5	WHOLE HOUSE WATER HAMMER ARRESTOR MIFAB MODEL CL-A-NPB. WATER HAMMER ARRESTOR TO BE MAUFACTURED BY MIFAB OR AN APPROVED EQUIVALENT.
6	AIR ADMITTANCE VALVE FOR ENGINEERED VENT SYSTEM. OATEY SURE-VENT AIR ADMITTANCE VALVE, 1.5" x 2" PVC SCHEDULE 40 ADAPTER. VALVE SHALL BE RATED FOR 24 STACK DFU'S AND 160 BRANCH DFU'S. VALVE SHALL BE LISTED PER ANSI/ASSE 1050 AND 1051, IPC, AND IRC. SEE ICC-ESR-1664 FOR EVALUATION REPORT. SEE DRAINAGE FIXTURE UNIT CALCULATION TABLE ON P3.1.
7	PROVIDE BATH TUB, COORDINATE EXACT MODEL, COLOR AND SIZE WITH OWNER.
8	CONTROL VALVES AND SHOWERHEADS SHALL BE LOCATED ON THE SIDEWALL OF SHOWER COMPARTMENTS OR OTHERWISE ARRANGED SO THAT THE SHOWERHEAD DOES NOT DISCHARGE DIRECTLY AT THE ENTRANCE TO THE COMPARTMENT SO THAT THE BATHER CAN ADJUST THE VALVES PRIOR TO STEPPING INTO THE SHOWER SPRAY.
9	EXTEND 5/8" HOSE FROM DISHWASHER TO PRE-INSTALLED AIR GAP DEVICE LOCATED IN THE THE KITCHEN SINK TAILPIECE ABOVE THE 'P' TRAP.

NO PLUMBING PIPES/LINES SHALL RUN WITHIN THE WALL/FLOOR/ROOF PANELS.

PLUMBING PLANS

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Amin
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER JOSEPH G. THOMAS M 31400 Exp. 6/30/26 MECHANICAL STATE OF CALIFORNIA

WCW Engineers, Inc. 760 Creel Drive Wood Dale, Illinois 60191 Tel. 630/595-8800 Fax 630/595-8818 www.WCWengineers.com

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

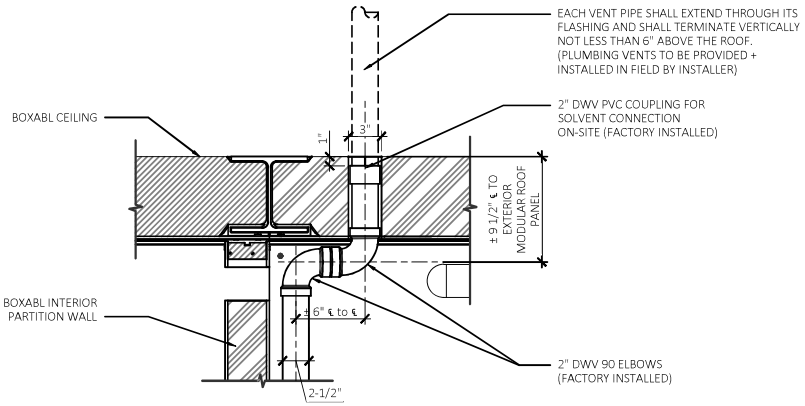
SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

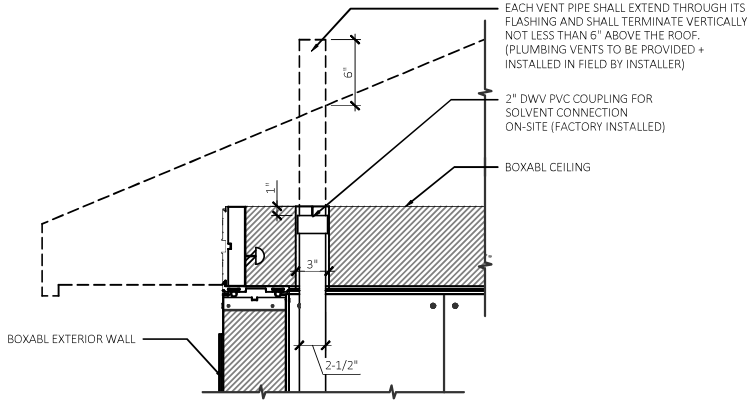
SHEET: P2.1

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

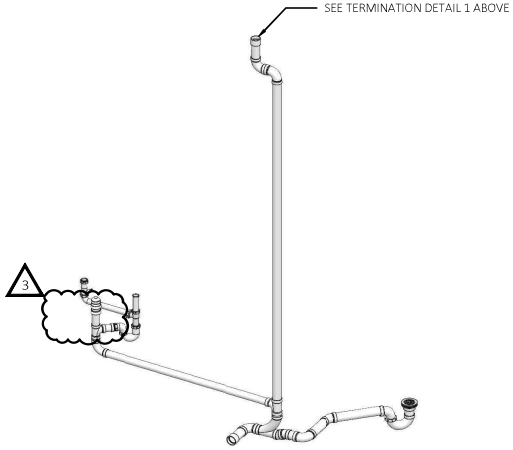
BOXABL



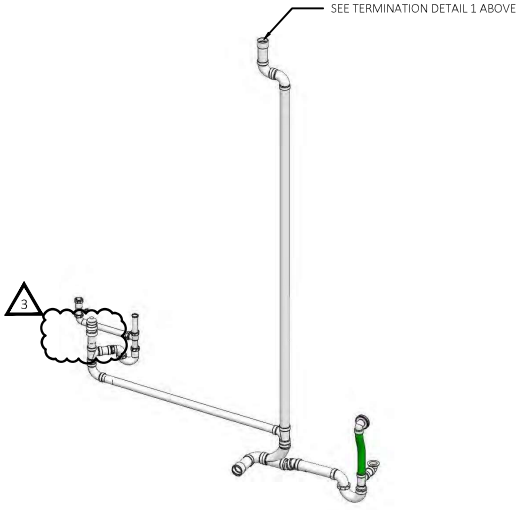
1 KITCHEN VENT TERMINATION DETAIL
SCALE: 1-1/2"=1'-0"



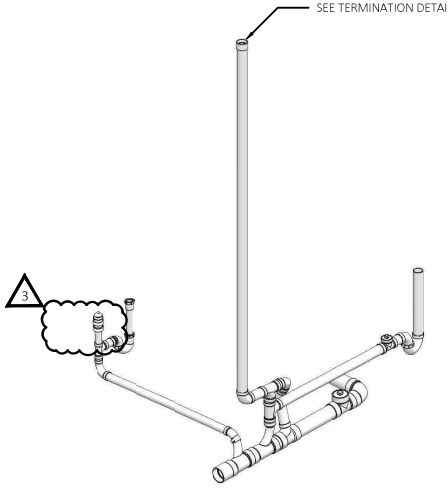
2 BATHROOM VENT TERMINATION DETAIL
SCALE: 1-1/2"=1'-0"



KITCHEN + SHOWER PIPING DIAGRAM
NOT TO SCALE



KITCHEN + BATHTUB PIPING DIAGRAM
NOT TO SCALE



BATHROOM PIPING DIAGRAM
NOT TO SCALE

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER JOSEPH G. THOMAS M 31400 Exp. 6/30/26 MECHANICAL STATE OF CALIFORNIA

WCW Engineers, Inc. 760 Creel Drive Wood Dale, Illinois 60191 Tel. 630/595-8800 Fax 630/595-8816 www.WCWengineers.com

PLUMBING VENT PLANS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: P2.2

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

FIXTURE SCHEDULES

FIXTURE	TYPE	MFG'R.	MODEL NO.	COLOR	FAUCET	TRAP	TRIM	SUPPLY FITTING	REMARKS	BOXABL PART NUMBER
WC	WATER CLOSET	SANIFLO	083 & 005	WHITE	N/A	INTERGRAL P-TRAP	N/A	3/8"	1.28 GALLONS/FLUSH	PLU-000178/PLU-000181
LAV	LAVATORY	BEELEE	BL6790BH	MATTE BLACK	1.2 GPM	N/A	MATTE BLACK	3/8"		PLU-000510
KS	KITCHEN FAUCET	MOEN	5925BL	MATTE BLACK	1.5 GPM	N/A	MATTE BLACK	3/8"		PLU-000291
SH	SHOWER	MOEN	T2472EPBL	MATTE BLACK	1.75 GPM	N/A	MATTE BLACK	1/2"		PLU-000141/PLU-000172
WWB-1	WASHER WALL BOX	SIOUX CHIEF	688-G10	WHITE	N/A	N/A	N/A	2 @1/2"		PLU-000158

NOTE: FIXTURES TO BE PROVIDE BY MANUFACTURER AS SCHEDULED OR AN APPROVED EQUIVALENT.

CA FIXTURE FLOW REQUIREMENTS

WC - WATER CLOSETS	1.28 GALLONS/FLUSH
LAV - LAVATORIES	1.2 GPM @ 60 PSI
KITCHEN SINK	1.8 GPM @ 60 PSI
SHOWER	1.8 GPM @ 80 PSI

HEAT PUMP WATER HEATER SCHEDULE

DESIG'N.	TYPE	MFG'R.	MODEL NO.	NOMINAL GALLON CAPACITY	FIRST HOUR RATING GALLONS	ELECTRICAL			RECOVERY AT 90°F RISE	TANK LINING	WARRANTY	UEF	REMARKS	BOXABL PART NUMBER
						KW	VOLTAGE	PHASE						
WH-1	TANK	RHEEM	PROPH40 T2 RH375-30 700470	40	60	4.5	240	SINGLE	27	YES	YES	3.83	WATER HEATER TO BE C.E.C. LISTED.	APP-000050

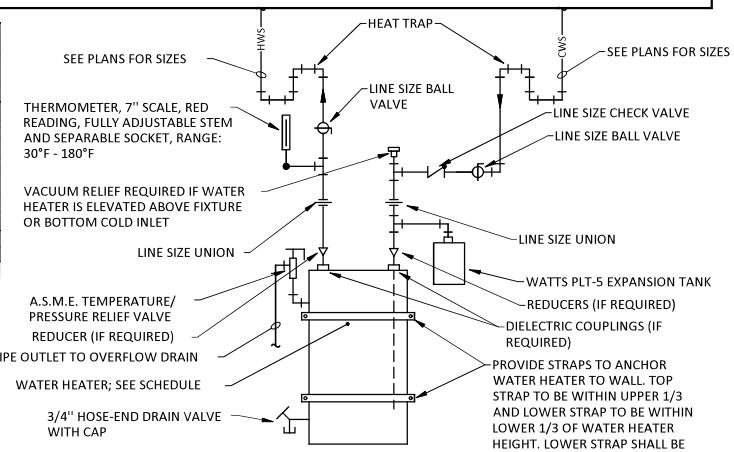
NOTE: WATER HEATER TO BE MANUFACTURED BY RHEEM OR AN APPROVED EQUAL.
WATER HEATER IS UNVENTED TYPE AND IS NOT PROVIDED WITH A FLUE COLLAR. WATER HEATER DOES NOT HAVE A VENT CONNECTION PER MANUFACTURER INSTALLATION MANUAL. WATER HEATER IS LISTED TO UL 174 WHICH DOES NOT STATE ANY REQUIREMENT FOR ELECTRIC WATER HEATER VENTILATION. PER CPC SECTION 509.2.1, VENTING IS NOT REQUIRED.

WATER SUPPLY FIXTURE UNITS

Quantity	Fixture Tag	Fixture	Occupancy	Type of Supply Control	Load Values in water supply fixture units (wsfu)			Total Load Values in water supply fixture units (wsfu)		
					Cold	Hot	Total	Cold	Hot	Total
1	DW	Dishwashing machine	Private	Automatic	0.00	1.40	1.40	0.00	1.40	1.40
1	IM	Ice Macine	Private	3/8" valve	0.25	0.00	0.25	0.25	0.00	0.25
1	KS	Kitchen sink	Private	Faucet	1.00	1.00	1.40	1.00	1.00	1.40
1	LAV	Lavatory	Private	Faucet	0.50	0.50	0.70	0.50	0.50	0.70
1	SH	Shower head	Private	Mixing valve	1.00	1.00	1.40	1.00	1.00	1.40
1	WM	Washing machine (8 lb)	Private	Automatic	1.00	1.00	1.40	1.00	1.00	1.40
1	WC	Water closet	Private	Flush tank	2.20	0.00	2.20	2.20	0.00	2.20
				Total WSFU				5.95	4.90	8.75

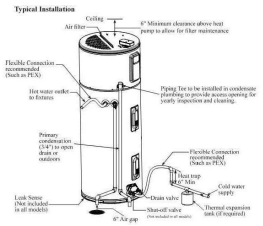
DRAINAGE FIXTURE UNITS

Quantity	Fixture Tag	Fixture Type	Drainage Fixture Unit Value As Load Factors	Minimum Size of Trap (inches)	Total Drainage Fixture Unit Value As Load Factors
1	WM	Automatic clothes washers, residential	2.00	2.00	2.00
1	DW	Dishwashing machine, domestic	2.00	1.50	2.00
1	KS	Kitchen sink, domestic	2.00	1.50	2.00
1	LAV	Lavatory	1.00	1.25	1.00
1	SH1	Shower Flow Rate 5.7 gpm or less	2.00	1.50	2.00
1	WC	Water closet, private (1.6 gpf)	3.00		3.00
		Total DFU's			12.00



DOMESTIC WATER HEATER PIPING DETAIL - ELECTRIC

NOT TO SCALE



Professional *Prestige*® ProTerra Hybrid Electric Heat Pump Specifications

DESCRIPTION					ENERGY INFO	FEATURES						SHIPPING WEIGHTS	
NOMINAL GALLON CAPACITY	RATED GALLON CAPACITY	MODEL NUMBER	MODEL VARIANT	ELECTRIC BREAKER SIZE	UNIFORM ENERGY FACTOR (UEF)	COMPRESSOR BTU/H	UEF FIRST HR. RATING G.P.H.	RECOVERY IN G.P.H. 80° F RISE	ELEMENT WATTAGE	TOTAL UNIT WATTAGE	MAX AMPS	UNIT WT. (LBS)	APPROX. SHIP WT. (LBS.)
ProTerra 30 Amp													
40	36	PROPH40 T2 RH375-30	700470	30	3.83	4,200	60	27	4,400	5,000	21	157	174

DESCRIPTION		DIMENSIONS (SHOWN IN INCHES)									
NOMINAL GALLON CAPACITY	MODEL NUMBER	A	B	C	D	E	F	G	H	I	J
40	PROPH40	62-5/16	20-1/4	47	3-5/8	39-5/8	25-3/8	20-1/2	78-7/8	22-3/8	21-3/4

DOMESTIC WATER HEATER TECHNICAL INFORMATION

NOT TO SCALE

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Amin
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER JOSEPH G. THOMAS M 31400 Exp. 6/30/26 MECHANICAL STATE OF CALIFORNIA

WCW Engineers, Inc.
760 Creel Drive
Wood Dale, Illinois 60191
Tel. 630/595-8800
Fax. 630/595-8818
www.WCWengineers.com

PLUMBING DETAILS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: P3.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

FIXTURE SCHEDULES

FIXTURE	TYPE	MFG'R.	MODEL NO.	COLOR	FAUCET	TRAP	TRIM	SUPPLY FITTING	REMARKS	BOXABL PART NUMBER
WC	WATER CLOSET	SANIFLO	083 & 005	WHITE	N/A	INTERGRAL P-TRAP	N/A	3/8"	1.28 GALLONS/FLUSH	PLU-000178/PLU-000181
LAV	LAVATORY	BEELEE	BL6790BH	MATTE BLACK	1.2 GPM	N/A	MATTE BLACK	3/8"		PLU-000510
KS	KITCHEN FAUCET	MOEN	5925BL	MATTE BLACK	1.5 GPM	N/A	MATTE BLACK	3/8"		PLU-000291
BT	TUB/SHOWER	FAUCET: MOEN FIXTURE: AQUAMATIC	FAUCET: T2473EPBL FIXTURE: 6032STTM OR 2603SMTH	FAUCET: MATTE BLACK FIXTURE: PER OWNER	1.75 GPM	N/A	MATTE BLACK	1/2"	PROVIDE WITH INTEGRAL GRAB BAR SUPPORT	PLU-000141/PLU-000172
WWB-1	WASHER WALL BOX	SIOUX CHIEF	688-G10	WHITE	N/A	N/A	N/A	2 @1/2"		PLU-000158

NOTE: FIXTURES TO BE PROVIDE BY MANUFACTURER AS SCHEDULED OR AN APPROVED EQUIVALENT.

CA FIXTURE FLOW REQUIREMENTS

WC - WATER CLOSETS	1.28 GALLONS/FLUSH
LAV - LAVATORIES	1.2 GPM @ 60 PSI
KITCHEN SINK	1.8 GPM @ 60 PSI
TUB/SHOWER	1.8 GPM @ 80 PSI

HEAT PUMP WATER HEATER SCHEDULE

DESIG'N.	TYPE	MFG'R.	MODEL NO.	NOMINAL GALLON CAPACITY	FIRST HOUR RATING GALLONS	ELECTRICAL			RECOVERY AT 90°F RISE	TANK LINING	WARRANTY	UEF	REMARKS	BOXABL PART NUMBER
						KW	VOLTAGE	PHASE						
WH-1	TANK	RHEEM	PROPH40 T2 RH375-30 700470	40	60	4.5	240	SINGLE	27	YES	YES	3.83	WATER HEATER TO BE C.E.C. LISTED.	APP-000050

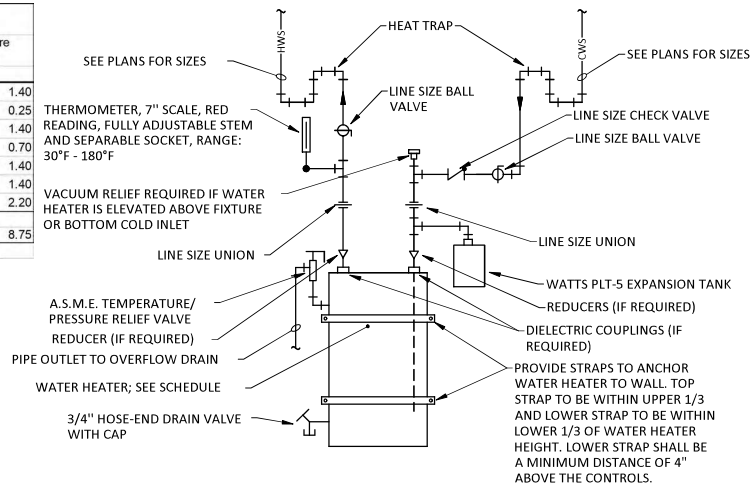
NOTE: WATER HEATER TO BE MANUFACTURED BY RHEEM OR AN APPROVED EQUAL.
WATER HEATER IS UNVENTED TYPE AND IS NOT PROVIDED WITH A FLUE COLLAR. WATER HEATER DOES NOT HAVE A VENT CONNECTION PER MANUFACTURER INSTALLATION MANUAL. WATER HEATER IS LISTED TO UL 174 WHICH DOES NOT STATE ANY REQUIREMENT FOR ELECTRIC WATER HEATER VENTILATION. PER CPC SECTION 509.2.1, VENTING IS NOT REQUIRED.

WATER SUPPLY FIXTURE UNITS

Quantity	Fixture Tag	Fixture	Occupancy	Type of Supply Control	Load Values in water supply fixture units (wsfu) Cold	Hot	Total	Total Load Values in water supply fixture units (wsfu) Cold	Hot	Total
1	DW	Dishwashing machine	Private	Automatic	0.00	1.40	1.40	0.00	1.40	1.40
1	IM	Ice Macine	Private	3/8" valve	0.25	0.00	0.25	0.25	0.00	0.25
1	KS	Kitchen sink	Private	Faucet	1.00	1.00	1.40	1.00	1.00	1.40
1	LAV	Lavatoy	Private	Faucet	0.50	0.50	0.70	0.50	0.50	0.70
1	BT	Tub/Shower	Private	Mixing valve	1.00	1.00	1.40	1.00	1.00	1.40
1	WM	Washing machine (8 lb)	Private	Automatic	1.00	1.00	1.40	1.00	1.00	1.40
1	WC	Water closet	Private	Flush tank	2.20	0.00	2.20	2.20	0.00	2.20
				Total WSFU				5.95	4.90	8.75

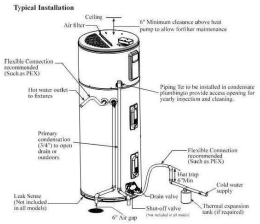
DRAINAGE FIXTURE UNITS

Quantity	Fixture Tag	Fixture Type	Drainage Fixture Unit Value As Load Factors	Minimum Size of Trap (inches)	Total Drainage Fixture Unit Value As Load Factors
1	WM	Automatic clothes washers, residential	2.00	2.00	2.00
1	DW	Dishwashing machine, domestic	2.00	1.50	2.00
1	KS	Kitchen sink, domestic	2.00	1.50	2.00
1	LAV	Lavatory	1.00	1.25	1.00
1	BT	Tub/Shower Flow Rate 5.7 gpm or less	2.00	1.50	2.00
1	WC	Water closet, private (1.6 gpf)	3.00		3.00
		Total DFU's			12.00



DOMESTIC WATER HEATER PIPING DETAIL - ELECTRIC

NOT TO SCALE



Professional *Prestige*® ProTerra Hybrid Electric Heat Pump Specifications

DESCRIPTION					ENERGY INFO	FEATURES						SHIPPING WEIGHTS	
NOMINAL GALLON CAPACITY	RATED GALLON CAPACITY	MODEL NUMBER	MODEL VARIANT	ELECTRIC BREAKER SIZE	UNIFORM ENERGY FACTOR (UEF)	COMPRESSOR BTU/H	UEF FIRST HR RATING G.P.H.	RECOVERY IN G.P.H @ 1° RISE	ELEMENT WATTAGE	TOTAL UNIT WATTAGE	MAX AMPS	UNIT WT. (LBS)	APPROX. SHIP WT. (LBS.)
ProTerra 30 Amp													
40	36	PROPH40 T2 RH375-30	700470	30	3.83	4,200	60	27	4,500	5,000	21	157	174

DESCRIPTION		DIMENSIONS (SHOWN IN INCHES)									
NOMINAL GALLON CAPACITY	MODEL NUMBER	A	B	C	D	E	F	G	H	I	J
40	PROPH40	62-5/16	20-1/4	47	3-5/8	39-5/8	25-3/8	20-1/2	78-7/8	22-3/8	21-3/4

DOMESTIC WATER HEATER TECHNICAL INFORMATION

NOT TO SCALE

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Amis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER JOSEPH G. THOMAS M 31400 Exp. 6/30/26 MECHANICAL STATE OF CALIFORNIA

WCW Engineers, Inc. 760 Creel Drive Wood Dale, Illinois 60191 Tel. 630/595-8800 Fax. 630/595-8816 www.WCWengineers.com

PLUMBING DETAILS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: P3.1

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

FAN COIL UNIT SCHEDULE

DESIG'N.	MFG'R.	MODEL NO.	AIR QUANTITY (CFM)	COOLING					HEATING			ELECTRICAL				COMPRESSOR	TYPE OF MOUNTING	HSPF	SEER	BOXABL PART NUMBER
				E.A.T. DB °F/WB °F	L.A.T. DB °F/WB °F	TOTAL CAPACITY (BTU/HR)	REFRIGERANT	REFRIGERANT CHARGE	E.A.T. (°F)	L.A.T. (°F)	TOTAL CAPACITY @ 47°F	VOLTAGE	PHASE (Ø)	MCA	MOCP					
CU-1	MITSUBISHI	MUZ-WR12NA										230	1	10	15	ROTORY INVERTER	ON GRADE			HVC-000019
	LG	LSU120HFV3										230	1	10	15					
FCU-1	MITSUBISHI	MSZ-WR12NA	400	75.0/62.3	55.0/53.4	12,000	R410A	1 LB 12 OZ	60.0	88.2	12,200						WALL HUNG	8.50	16.00	HVC-000003
	LG	LSN120HFV3	459															8.50	17.00	

NOTE: UNITS TO BE MANUFACTURER BY MITSUBISHI, LG OR AN APPROVED EQUIVALENT UNIT.

Table 4-5c: Residential Space-Cooling systems Pipe Insulation (thickness in inches) (Refrigerant)

Fluid Operating Temperature Range °F	Insulation Conduct. (Btu-in/h-ft²-°F)	Insulation Mean Rating Temperature (°F)	Pipe Diameter < 1"	REMARKS
40-60	0.21-0.27	75	0.75	

Note: Insulation used for refrigerant suction lines outside of a conditioned space, must include a Class I or Class II vapor retarded. The vapor retarded and insulation must be protected from physical damage, UV deterioration and moister with a covering that can be removed for equipment maintenance without destroying the insulation.

EXHAUST FAN SCHEDULE

DESIG'N	SERVICE	MFG'R	MODEL NO.	TYPE	CFM	STATIC PRESSURE ("W.C.)	DRIVE	ELECTRICAL			BACKDRAFT DAMPER	OPER. WEIGHT (LBS.)	ENERGY STAR COMPLIANT	EFFICIENCY RATING CFM/WATT	BOXABL PART NUMBER
								H.P. (WATTS)	PHASE (Ø)	VOLTAGE					
EF-1	RESTROOM	DELTA	SLM 70	WALL	70	0.250	DIRECT	(11.5)	1	115	GRAVITY	8	YES	5.8	HVC-000052

NOTE: UNITS TO BE MANUFACTURED BY ADDVENT, DELTA, OR AN APPROVED EQUIVALENT UNIT.

Table 4-6: Minimum Cooling Efficiencies for Central Air Conditioners and Heat Pumps for Heat Pumps

Applicance	Type	SEER Required	EER Required	SEER Specified	REMARKS
Central air source heat	Split System	14.0	NR	16.0	

Table 4-3: Minimum Heating Efficiency for Heat Pumps

Equipment Type	Reference	Configuration/Size	Minimum Heating Efficiency	Heating efficiency Specified	REMARKS
Single-phase air source heat pumps (NAECA)	Table C-3	< 65,000 Bth/h cooling	Split 8.2 HSPF	8.5 HSPF	

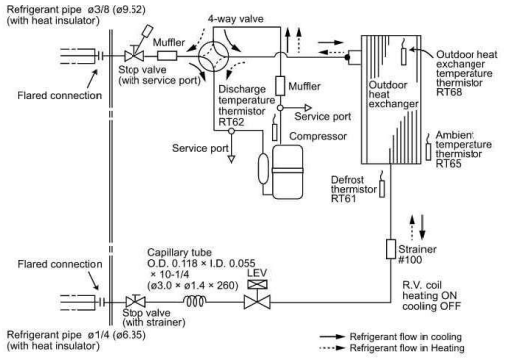
ENERGY RECOVERY VENTILATOR SCHEDULE

DESIG'N	MANUFACTURER MODEL NO.	CFM	REGENERATION EFFICIENCY %	ELECTRICAL	
				POWER (WATTS)	CURRENT (A)
ERV-1	ECO PAIR PLUS AV-TTW5-W	47.0	97	7	0.05

NOTE: UNIT TO BE MANUFACTURED BY ECO PAIR PLUS OR AN APPROVED EQUIVALENT UNIT.

MUZ-WR09NA MUZ-WR12NA

Unit: Inch (mm)



REFRIGERATION PIPING SYSTEM SCHEMATIC DETAIL

NOT TO SCALE

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Amis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER JOSEPH G. THOMAS M 31400 Exp. 6/30/26 MECHANICAL STATE OF CALIFORNIA

WCW Engineers, Inc. 760 Creel Drive Wood Dale, Illinois 60191 Tel. 630/595-8800 Fax 630/595-8818 www.WCWengineers.com

MECHANICAL DETAILS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: M3.0

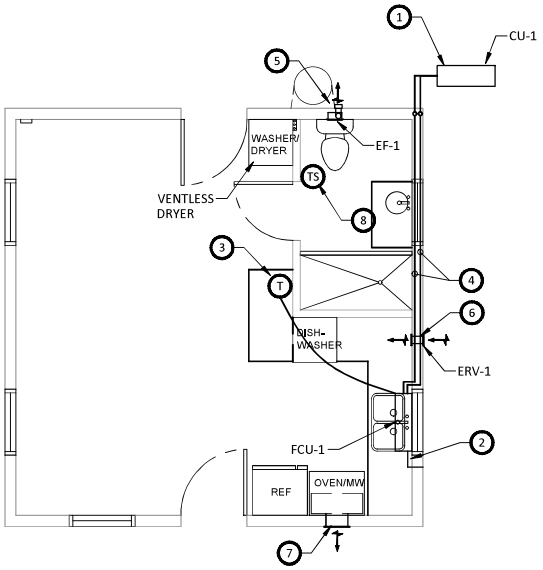
BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

WHOLE HOUSE VENTILATION SYSTEM SHALL BE COMPRISED OF TOILET EXHAUST FAN, 70 CFM AND ERV. VENTILATION RATE OF 20 CFM IS BASED ON EQUATION 15-1 USING 361 SQUARE FEET AND ONE BEDROOM. PER THESE CAPACITIES THE TOILET EXHAUST FAN WILL OPERATE 29% OF EACH 4 HOUR SEGMENT.

PLAN NOTES

1	NEW CONDENSING UNIT, CU-1. PROVIDE CONCRETE PAD TO HAVE THE CONDENSING UNIT ON A LEVEL SURFACE. COORDINATE EXACT LOCATION WITH ARCHITECT AND BUILDING OWNER.
2	TERMINATE CONDENSATE DRAIN FROM FCU-1 TO EXTERIOR. PROVIDE SPLASH BLOCK ON GRADE. COORDINATE EXACT LOCATION WITH ARCHITECT AND BUILDING OWNER.
3	PROVIDE THERMOSTAT, LG MODEL PREMTBVC3. MOUNT TOP OF THERMOSTAT 48" AFF MAXIMUM.
4	REFRIGERANT PIPING ROUTED IN WALL, SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SIZING.
5	PROVIDE WUI COMPLIANT EXTERIOR WALL VENT
6	ERV-1 FOR WHOLE HOUSE VENTILATION SYSTEM. SEE SCHEDULE ON M3.0. INTAKE TO BE LOCATED ABOVE UPPER CABINETS. PROVIDE WUI COMPLIANT EXTERIOR WALL VENT.
7	EXHAUST DISCHARGE FROM EXHAUST FAN THAT IS INTEGRAL TO THE MICROWAVE. EXHAUST CAPACITY SHALL BE 300 CFM AND BE EXHAUSTED DIRECTLY TO THE OUTDOORS. EXHAUST FAN TO HAVE MANUAL SWITCH FOR CONTROL. PROVIDE WUI COMPLIANT EXTERIOR WALL VENT.
8	TIMER SWITCH TO CONTROL BATHROOM EXHAUST FAN. EXHAUST FAN IS A COMPONENT OF WHOLE HOUSE VENTILATION SYSTEM SO A HUMIDITY CONTROL IS NOT REQUIRED PER TITLE 24 4.506.1.



1 MECHANICAL PLAN
1/4" = 1'-0"

MECHANICAL PLAN

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER
JOSEPH G. THOMAS
M 31400
Exp. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

WCW Engineers, Inc.
760 Creel Drive
Wood Dale, Illinois 60191
Tel. 630/595-8800
Fax. 630/595-8818
www.WCWengineers.com

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.

Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515

Contact Information:
info@sevansolutions.com
www.sevansolutions.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: M2.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

GENERAL

1. MECHANICAL SYSTEMS SHALL BE INSTALL IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES.

2. DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURERS STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES AND SUBJECT TO INSPECTION.

3. THE MECHANICAL SYSTEMS SHALL BE COMPLETE WITH ALL NECESSARY APPURTENANCES FOR A COMPLETE OPERATING SYSTEM.

4. THE CONTRACTOR SHALL WARRANTEE ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP FOR ONE YEAR FROM SUBSTANTIAL COMPLETION.

BASIC MATERIALS AND METHODS

1. MATERIALS SHALL BEAR UNDERWRITERS LABEL OR OTHER CERTIFIED LISTING AGENCIES WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED AND LISTED BY UNDERWRITER'S LABORATORIES, INC. MATERIALS, EQUIPMENT AND APPLIANCES SHALL CONFORM TO THE LATEST STANDARDS OF:

AMCA	-AIR MOVING AND CONDITIONING ASSOCIATIONS, INC.
SMACNA	-SHEET METAL AND AIR CONDITIONING CONTRACTOR NATIONAL ASSOCIATION, INC.
ASHRAE	-AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
ASME	-AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	-AMERICAN SOCIETY FOR TESTING MATERIALS
NEMA	-NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
ARI	-AIR CONDITIONING AND REFRIGERATION INSTITUTE
ANSI	-AMERICAN NATIONAL STANDARDS INSTITUTE
IAPMO	-INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

COORDINATION

1. COORDINATE WITH GENERAL CONTRACTOR FOR ALLOWABLE DAYS OF WEEK AND TIMES OF DAY FOR SYSTEMS SHUT DOWNS AS REQUIRED FOR THE CONSTRUCTION WORK.

2. THE MECHANICAL CONTRACTOR SHALL COORDINATE DUCTWORK INSTALLATION WITH ARCHITECTS/OWNERS REPRESENTATIVE IN FIELD AND OTHER TRADES.

3. THE MECHANICAL CONTRACTOR SHALL COORDINATE VOLTAGE OF ALL EQUIPMENT WITH ELECTRICAL PRIOR TO ORDERING EQUIPMENT.

INSTALLATION

1. CORE-DRILL OR SAW-CUT FLOOR, WALL, ROOF, ETC. AS REQUIRED FOR PIPING OR DUCTWORK AND FIRE-STOP OPENING AROUND PIPE OR DUCTWORK. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING OR CUTTING. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

2. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOFS, ETC. ARE CUT FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER-TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES.

3. ALL PIPING THAT IS EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURAL ABOVE.

4. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" AWAY FROM EXHAUST DISCHARGE OPENINGS AND PLUMBING VENT STACKS.

EQUIPMENT

1. THE MECHANICAL CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS AS SHOWN, NOTED AND SPECIFIED. EQUIPMENT MAY NOT BE SUBSTITUTED UNLESS WRITTEN APPROVAL BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE IS OBTAINED. ANY CHANGES TO THE DUCTWORK LAYOUT WILL NECESSITATE SUBMISSION OF SHEET METAL SHOP DRAWINGS FOR ENGINEER'S REVIEW. ANY UNAUTHORIZED CHANGES WILL BE REMOVED AT CONTRACTOR'S EXPENSE, IF DEEMED NECESSARY BY ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE.

2. UPON SELECTION OF THE MECHANICAL APPLIANCES, SUBMIT THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO THE BUILDING DEPARTMENT, INCLUDING LISTING FOR OUTSIDE INSTALLATION WHERE APPLICABLE.

AIR DISTRIBUTION

1. ALL DUCTWORK SHALL BE FABRICATED ACCORDING TO THE SMACNA LOW VELOCITY DUCT MANUAL, ASHRAE HANDBOOK VOLUME "HVAC SYSTEMS AND EQUIPMENT", AND TYPICAL DUCTWORK DETAILS SHOWN IN THESE DRAWINGS. ALL ELBOWS SHALL HAVE PROPER RADIUS. SIZES SHOW ON PLAN ARE INSIDE FREE AREA.

2. ALL FLEXIBLE DUCTWORK SHALL FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. MAXIMUM STRETCHED OUT LENGTH SHALL BE AS PER CODES.

3. PROVIDE UL APPROVED FIRE DAMPERS FOR ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS. INSTALL FIRE DAMPERS AS PER MANUFACTURER'S DIRECTIONS AND PER UL GUIDELINES. PROVIDE ACCESS AS REQUIRED FOR SERVICING OF FIRE DAMPERS.

4. ALL CONTRACTOR FABRICATED AND MANUFACTURER FABRICATED COMPONENTS OF THE OUTSIDE AIR, SUPPLY AIR, RETURN AIR AND EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED AIR-TIGHT. THE INSTALLED SYSTEMS SHALL BE PRESSURE TESTED AS SPECIFIED. PIPE OPENINGS IN SYSTEM COMPONENTS SHALL HAVE SHEET METAL BAFFLES, SET IN SEALANT, TO PREVENT LEAKAGE.

AUTOMATIC TEMPERATURE CONTROLS

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING AS REQUIRED. THERMOSTATS SHALL BE AS SPECIFIED OR AS FURNISHED WITH THE EQUIPMENT. PROVIDE TRANSFORMERS AS REQUIRED.

TESTING AND BALANCING

1. BALANCING CONTRACTOR SHALL BALANCE SYSTEMS TO AIR QUANTITIES SHOWN ON PLAN. BALANCING CONTRACTOR SHALL USE DUCT MOUNTED MANUAL DAMPERS FOR AIR SYSTEM BALANCING. USE OF A TERMINAL DAMPER IS NOT ACCEPTABLE.
2. TESTING AND BALANCING CONTRACTOR SHALL TEST ALL HVAC EQUIPMENT TO ENSURE PROPER OPERATION, TEST ALL CONTROLS TO ENSURE PROPER OPERATION, CALIBRATION AND ADJUSTMENT OF CONTROLS, AND TEST ECONOMIZERS TO ENSURE PROPER OPERATION.

3. THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED 48 HOURS OR MORE PRIOR TO FINAL TESTING AND BALANCING WORK SO THAT THEY AND/OR THE ENGINEER MAY BE PRESENT TO OBSERVE THIS WORK. THE BALANCING CONTRACTOR SHALL SUBMIT WRITTEN REPORTS OF ALL AIR FLOW READINGS, STATIC PRESSURES, GPM RATES, PRESSURE READINGS, TEMPERATURE READINGS, MOTOR AMPERAGE, ETC., TO DOCUMENT PROPERLY OPERATING AND BALANCED MECHANICAL SYSTEMS IN ALL AREAS. A COPY OF THE TEST AND BALANCE REPORT SHALL BE SUBMITTED TO THE AUTHORITIES HAVING JURISDICTION PRIOR TO FINAL INSPECTION AND REQUESTING OCCUPANCY.

CLOSEOUT DOCUMENTATION

1. THE CONTRACTOR SHALL FURNISH TO THE BUILDING OWNER WITHIN 90 DAYS OF DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY THE FOLLOWING;
   A. OPERATING AND MAINTENANCE MANUAL. MANUAL SHALL CONSIST OF MANUFACTURER'S RECOMMENDATIONS, PROGRAMMING PROCEDURES AND DATA POINTS, NARRATIVE AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING, EQUIPMENT AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED AND OPERATED.
   B. AS-BUILT HVAC DRAWINGS.
   C. BALANCE REPORT OF HVAC SYSTEMS.

MECHANICAL ABBREVIATIONS

A.D.	ACCESS DOOR
A.F.F.	ABOVE FINISHED FLOOR
ACCU	AIR COOLED CONDENSING UNIT
CC	COOLING COIL
CV	CONTROL VALVE
EF	EXHAUST AIR FAN
F.C.U	FAN COIL UNIT
N.T.S.	NOT TO SCALE
S.C.D.	SEE CONSTRUCTION DRAWINGS
S.S.	STAINLESS STEEL
T	THERMOSTAT
U.N.O.	UNLESS NOTED OTHERWISE
ARCH	ARCHITECT OR ARCHITECTURAL
BLD'G	BUILDING
BOT.	BOTTOM
CL'G.	CEILING
CONC.	CONCRETE
DET.	DETAIL
DN.	DOWN
DWG.	DRAWING
E.A.T.	ENTERING AIR TEMPERATURE
GA.	GAUGE
H/AC	HEATING AND AIR CONDITIONING
L.A.T.	LEAVING AIR TEMPERATURE
MT'D	MOUNTED
S.S.T.	SATURATED SUCTION TEMPERATURE
T.S.P.	TOTAL STATIC PRESSURE
W/	WITH
Ø	DIAMETER/ROUND
0'-0''	ELEVATION FROM FINISH FLOOR

MECHANICAL SYMBOLS

T DEVICE	THERMOSTAT WITH DEVICE CONTROLLED.
CD	CONDENSATE DRAINAGE PIPING
L	REFRIGERANT LIQUID PIPING
S	REFRIGERANT SUCTION PIPING
	LINE SIZE GATE VALVE
	LINE SIZE BALL VALVE (2" & SMALLER) OR LINE SIZE BUTTERFLY VALVE (2-1/2" & LARGER)
	LINE SIZE BALANCING VALVE
	LINE SIZE CHECK VALVE
	LINE SIZE UNION

Mandatory Measures

1. THERMOSTAT PROVIDED SHALL BE A SET-BACK TYPE, CAPABLE OF ALLOWING THE OCCUPANT TO PROGRAM SET POINTS FOR AT LEAST FOUR PERIODS WITH-IN 24 HOUR TIME SPAN.

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER JOSEPH G. THOMAS M 31400 Exp. 6/30/26 MECHANICAL STATE OF CALIFORNIA

WCW Engineers, Inc.
760 Creel Drive
Wood Dale, Illinois 60191
Tel. 630/595-8800
Fax 630/595-8816
www.WCWengineers.com

MECHANICAL NOTES SYMBOLS & ABBREVIATIONS

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE CODES AND ORDIANCES FOR PREFABRICATED DWELLING UNITS.

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: M1.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

ELECTRICAL SPECIFICATIONS:

E1. A QUALIFIED ELECTRICIAN SHALL FURNISH AND INSTALL ALL LABOR, TOOLS, MATERIAL, EQUIPMENT, SERVICES, AND RELATED ACCESSORIES NECESSARY FOR THE COMPLETE INSTALLATION OF ELECTRICAL WORK SHOWN ON THE DRAWINGS, SPECIFIED IN THE NOTES, AND REQUIRED BY LOCAL CODE AUTHORITIES.

E2. ALL WORK SHALL COMPLY WITH THE 2022 CEC AND 2022 CALIFORNIA RESIDENTIAL CODE.

E3. OBTAIN AND PAY FOR ALL PERMITS AND FEES RELATING TO ELECTRICAL SYSTEM.

E4. IT IS INTENDED THAT ALL ITEMS OF WORK AND SYSTEMS BE COMPLETE AND WIRED COMPLETE IN ALL DETAILS, READY FOR SATISFACTORY OPERATION AND SERVICE. APPARATUS REQUIRED SHALL BE FURNISHED, EVEN THOUGH NOT SPECIFICALLY MENTIONED HEREIN, OR SHOWN ON THE DRAWINGS.

E5. PROVIDE GROUNDING OF ELECTRICAL WORK IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AND THEIR AUTHORITIES.

E6. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ANY INSTALLATION.

E7. PROVIDE CODE APPROVED CLEARANCES AROUND ELECTRICAL EQUIPMENT.

E8. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO THE NEMA STANDARDS, CALIFORNIA ELECTRICAL CODE (CEC) IN EVERY CASE, WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, FITTINGS AND OTHER EQUIPMENT SHALL BE LISTED AND LABELED BY A QUALIFIED TESTING AGENCY AND SHALL BE CONNECTED IN AN APPROVED MANNER WHEN INSTALLED.

E9. TESTING - AFTER WIRES ARE IN PLACE AND CONNECTED TO DEVICES AND EQUIPMENT, THE SYSTEM SHALL BE TESTED FOR SHORTS AND GROUNDS. ALL HOT WIRES, IF SHORTED OR GROUNDED, SHALL BE REMOVED AND REPLACED.

E10. ALL METERS, INSTRUMENTS, CABLE CONNECTION, EQUIPMENT, OR APPARATUS NECESSARY FOR MAKING ALL TESTS, SHALL BE FURNISHED BY THIS CONTRACTOR AT HIS OWN EXPENSE.

E11. AFTER THE COMPLETION OF THE INSTALLATION, THE ENTIRE SYSTEM SHALL BE THOROUGHLY CLEANED. CLEAN ALL FOREIGN MATTER, PAINT, OIL, DIRT, UNREQUIRED LABELS, GREASE, AND STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE FROM THE PREMISES ALL RUBBISH, DEBRIS, ETC. ACCUMULATED BY THE ELECTRICAL INSTALLATION.

E12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EQUIPMENT AND SYSTEMS AGAINST HARMFUL EXPOSURE, OR ACCUMULATION OF DUST/MOISTURE, FLOODING, CORROSION, OR OTHER FORMS OF DAMAGE. CLEAN AND RESTORE DAMAGED FINISHES AND EQUIPMENT TO PLACE INSTALLATION IN A LIKE-NEW CONDITION.

E13. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL INTERIOR WIRING SHALL BE NM-B CABLE. ELECTRICIAN SHALL PROVIDE EXTENSION OF ALL CABLE FROM JUNCTION BOX TO ELECTRICAL PANEL. PROVIDE CODE COMPLIANT RACEWAY AND WIRING FROM INTERIOR JUNCTION BOX TO EXTERIOR PANEL. SEAL OPENING WEATHERTIGHT. PROVIDE INTERCONNECTION OF CABLES BETWEEN THE WALLS AND ROOF PANELS. THERE MAY BE SEVERAL CIRCUITS IN EACH PANEL. EACH IS LABELED WITH CIRCUIT NAME, CONNECT CIRCUITS OF LIKE NAMES.

E14. DISCONNECT SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK TYPE IN NEMA ENCLOSURE TO MATCH LOCATION AND USE. SWITCHES SHALL BE LISTED FOR THEIR USE.

E15. PANEL/LOAD CENTER SHALL BE AS SHOWN ON THE DRAWINGS WITH 100A-2P MAIN BREAKER, 225A BUSSING AND BRANCH BREAKERS AS SCHEDULED. UNIT IS PROVIDED IN A NEMA 3R ENCLOSURE FOR EXTERIOR MOUNTING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALL BREAKERS AS REQUIRED. PANEL/LOAD CENTERS SHALL BE SQUARE D QO SERIES WITH QO BREAKERS OR EATON, SEIMENS OR GENERAL ELECTRIC EQUIVALENT. TERMINATE ALL CABLING AND WIRING AT PANEL/LOAD CENTER IN ACCORDANCE WITH CEC REQUIREMENTS.

E16. INSTALL COMBINATION WASHER/DRYER BACKBOX WIRING AND PLUG IN WALL.

E17. ASSEMBLE AND INSTALL PENDANT LIGHT FURNISHED WITH UNIT. PENDANT LIGHT SHALL BE LISTED PER 410.10(D).

E18. INSTALL SMOKE DETECTOR FURNISHED WITH UNIT.

E19. ASSEMBLE AND INSTALL EXTERIOR SCONCE LIGHT FURNISHED WITH UNIT BY FRONT AND BACK DOORS. SEAL LIGHT TO EXTERIOR WALL TO BE WEATHER TIGHT.

E20. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF TYPE.

E21. FURNISH AND INSTALL A COMPLETE AND OPERABLE SYSTEM OF SERVICE AND DISTRIBUTION FROM THE UTILITY COMPANY TRANSFORMERS OR FROM FEED FROM ANOTHER STRUCTURE TO THE PANEL/LOAD CENTER AS REQUIRED. PROVIDE A 120/240V., 1PH., 3W. SERVICE OR FEEDER TO THE LOAD CENTER RATED AT 100 AMPERES WITH 225A MINIMUM BUSSING. MINIMUM FEEDER SIZE TO THE HOUSE SHALL BE 3 # 1 AWG COPPER CONDUCTORS. COORDINATE FINAL GROUNDING WITH METHOD OF FEEDING. SUGGESTED SERVICE GROUNDING DETAIL IS FOR UTILITY FED BUILDING.

E22. TWO SMALL APPLIANCE 20A BRANCH CIRCUITS HAVE BEEN PROVIDED PER CEC 210.11 (C)(1) SERVING ONLY ABOVE COUNTER RECEPTACLES.

E23. LAUNDRY AREA 20A BRANCH CIRCUITS HAS BEEN PROVIDED PER CEC 210.11 (C)(2) SERVING ONLY LAUNDRY AREA.

E24. INDIVIDUAL APPLIANCE BRANCH CIRCUITS HAVE BEEN PROVIDED SERVING DEDICATED APPLIANCES INCLUDING HEAT A/C UNIT, REFRIGERATOR, MICROWAVE,DISHWASHER AND ELECTRIC RANGE.

E25. BATHROOM RECEPTACLE 20A BRANCH CIRCUIT HAS BEEN PROVIDED PER CEC 210.11 (C)(3) SERVING ONLY BATHROOM RECEPTACLES.

E26. RECEPTACLE OUTLETS HAVE BEEN INSTALLED IN ACCORDANCE WITH CEC 210.52. ALL RECEPTACLES SHALL BE LISTED AND GROUNDED TYPE AND INSTALLED IN ACCORDANCE WITH CEC 406.4. ALL RECEPTACLES SHALL BE PROVIDED WITH AFCI PROTECTION. ALL 15A AND 20A KITCHEN, BATHROOM, LAUNDRY, AND OUTDOOR RECEPTACLES SHALL BE GFCI TYPE. ALL OUTDOOR RECEPTACLES SHALL BE WEATHER RESISTANT TYPE WITH WEATHERPROOF COVERS AND WEATHER SEALED TO BUILDING FRAME . ALL 15A AND 20A RECEPTACLES SHALL BE TAMPER RESISTANT TYPE PER CEC 406.12 TAMPER-RESISTANT RECEPTACLES. ALL 15- AND 20-AMPERE, 125- AND 250-VOLT NONLOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN 406.12(1) THROUGH (7) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.
(1) DWELLING UNITS IN ALL AREAS SPECIFIED IN 210.52

E27. PROVIDE GROUNDING AND BONDING PER CEC 250.

E28. FITTINGS AND CONNECTORS THAT ARE INTENDED TO BE CONCEALED AT THE TIME OF ASSEMBLY SHALL BE LISTED AND IDENTIFIED FOR THE INTERCONNECTION OF BUILDING COMPONENTS. SUCH FITTING SHALL BE EQUAL TO THE WIRING METHOD EMPLOYED IN INSULATION, TEMPERATURE RISE, AND FAULT-CURRENT WITHSTANDING AND SHALL BE CAPABLE OF ENDURING THE VIBRATION AND SHOCK OCCURRING IN TRANSPORT.

E29. GROUNDING OF BOTH ELECTRICAL AND NON ELECTRICAL METAL PARTS SHALL BE THROUGH CONNECTION TO A GROUNDING BUS IN THE PANEL/LOAD CENTER AND SHALL BE CONNECTED THROUGH THE GREEN-COLORED INSULATED CONDUCTOR IN THE FEEDER WIRING TO THE GROUNDING BUS IN THE SERVICE ENTRANCE EQUIPMENT.

E30. THE INSTALLATION OF THE SERVICE EQUIPMENT SHALL COMPLY WITH ARTICLE 230. MEANS SHALL BE PROVIDED FOR THE CONNECTION OF A GROUNDING ELECTRODE CONDUCTOR TO THE SERVICE EQUIPMENT AND ROUTING IT OUTSIDE THE STRUCTURE. BONDING AND GROUNDING OF THE SERVICE SHALL BE IN ACCORDANCE WITH ARTICLE 250. THE MANUFACTURER SHALL INCLUDE IN ITS WRITTEN INSTALLATION INSTRUCTIONS ONE METHOD OF GROUNDING THE SERVICE EQUIPMENT AT THE INSTALLATION SITE. THE INSTRUCTIONS SHALL CLEARLY STATE THAT OTHER METHODS OF GROUNDING ARE FOUND IN ARTICLE 250. THE MINIMUM SIZE GROUNDING ELECTRODE CONDUCTOR SHALL BE # 8 AWG COPPER.

A WARNING LABEL SHALL BE MOUNTED ON OR ADJACENT TO THE SERVICE EQUIPMENT. THE LABEL SHALL STATE THE FOLLOWING:
"WARNING DO NOT PROVIDE ELECTRICAL POWER UNTIL THE GROUNDING ELECTRODE(S) IS INSTALLED AND CONNECTED (SEE INSTALLATION INSTRUCTIONS)."

WHERE THE SERVICE EQUIPMENT IS NOT INSTALLED IN OR ON THE UNIT, THE INSTALLATION SHALL COMPLY WITH THE OTHER PROVISIONS OF THE CEC.

E31. ALL LIGHTING SHALL BE CALIFORNIA TITLE 24 COMPLIANT.

E32. OUTDOOR LIGHTING SHALL LED LIGHT SOURCES. OUTDOOR LIGHTING IS CONTROLLED BY INTEGRAL PHOTOCELL OR ASTRONOMICAL TIMECLOCK PER 210.70(A)(2)(2) EXCEPTION.

E33. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

E34. THE INSTALLING CONTRACTOR SHALL PROVIDE EITHER ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED UP CAPACITY OF 60A AND A MINIMUM OF 4 ESS SUPPLIED BRANCH CIRCUITS OR A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH CIRCUITS LISTED BELOW. ALL BRANCH CIRCUIT ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF THE ESS. THE TRADE SIZE OF THE RACEWAY SHALL NOT BE LESS THAN 1". THE PANEL BOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL BACKED UP LOAD CIRCUITS"

A MINIMUM OF 4 BRANCH CIRCUIT SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE LOCATED NEAR THE PRIMARY EGRESS AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET.

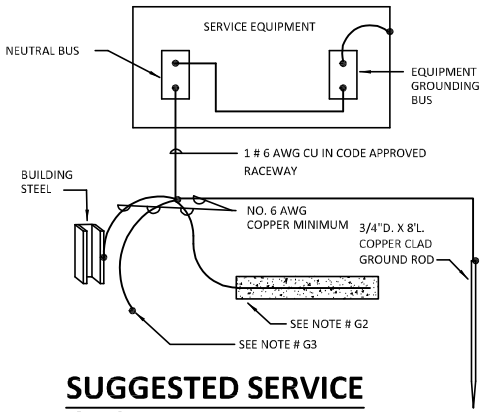
THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUS BAR RATING OF 225A.

SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPMENT / TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF THE BACKUP POWER SOURCE.

E35. PER AGING IN PLACE REQUIREMENTS, ELECTRICAL RECEPTACLE OUTLETS, SWITCHES AND CONTROLS (INCLUDING CONTROLS FOR HEATING, VENTILATION AND AIR CONDITIONING) INTENDED TO BE USED BY OCCUPANTS SHALL BE LOCATED NO MORE THAN 48 INCHES (1219.2 MM) MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR.

SYMBOL LIST

SYMBOL	DESCRIPTION
J, J	JUNCTION BOX - WALL OR CEILING MOUNTED
	NON - FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MOTOR CONNECTION - H.P. AS NOTED ON DRAWINGS
	NM-B CABLE RUN CONCEALED IN CEILING OR WALLS. X DENOTES GROUND WIRE | DENOTES NEUTRAL CONDUCTOR | DENOTES HOT CONDUCTOR
	LOAD CENTER
	DUPLEX RECEPTACLE (NEMA 5-20R) (+18" AFF UNLESS NOTED OTHERWISE)
	DUPLEX RECEPTACLE (NEMA 5-20R) (MOUNTED 6" ABOVE COUNTER TOP UNLESS NOTED OTHERWISE)
	DUPLEX CONVENIENCE OUTLET (NEMA 5-15R)
	SPECIAL OUTLET. REFER TO POWER PLAN ON SHEET E1.0 FOR REQUIREMENTS
	SINGLE NEMA 5-20R RECEPTACLE
SD	CEILING MOUNTED COMINATION SMOKE/FIRE/CARBON MONOXIDE ALARM - USI ELECTRIC # MUC1509S HARDWIRED ALARM WITH 10 YEAR SEALED BATTERY OR EQUAL.
A.	DENOTES AMPERES
A.C.	DENOTES ABOVE COUNTER
A.F.F.	DENOTES ABOVE FINISHED FLOOR
AFCI	DENOTES ARC FAULT CIRCUIT INTERRUPTER
C.	DENOTES CONDUIT
GFCI	DENOTES GROUND FAULT CIRCUIT INTERRUPTER
GRD.	DENOTES GROUND
M.L.O.	DENOTES MAIN LUGS ONLY
WP	DENOTES WEATHERPROOF (NEMA 3R)



SUGGESTED SERVICE GROUND DETAIL

NO SCALE

NOTES:

G1. CONTRACTOR SHALL OBTAIN APPROVAL FROM LOCAL CODE AUTHORITIES BEFORE INSTALLING GROUNDING.

G2. CONCRETE ENCASED ELECTRODE ENCASED BY A MINIMUM OF 2" OF CONCRETE ON ALL SIDES LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOOTING OR FOUNDATION. ELECTRODE SHALL CONSIST OF A MINIMUM OF 20' OF BARE COPPER CONDUCTOR (# 4) WHERE APPLICABLE. (SEE CEC 250.52 (A) (3) (2))

G3. BOND TO REBAR STUBOUT IN FOUNDATION PER CEC 250 WHERE APPLICABLE (SEE CEC 250.52 (A) (3) (1))

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

REGISTERED PROFESSIONAL ENGINEER GREGORY L. DOFFING NO. 20783 ELECTRICAL STATE OF CALIFORNIA

SIGNATURE 04/18/2025 DATE | 04/30/2026 EXPIRATION DATE

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

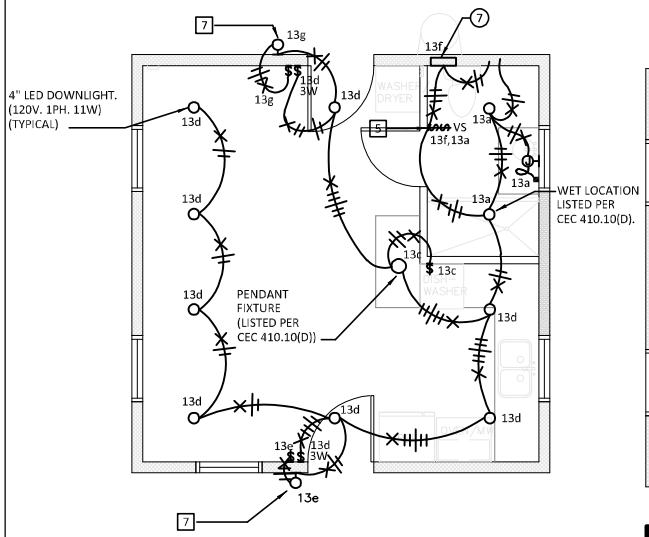
SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: E1.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

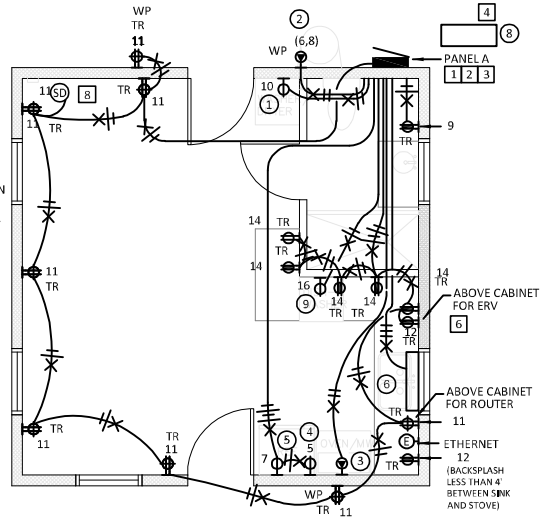
BOXABL



LIGHTING PLAN

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

0' 4' 8' 12' 16'



POWER PLAN

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

0' 4' 8' 12' 16'

POWER NOTES:

1. LOAD CENTER FULLY ASSEMBLED AND INSTALLED IN FACTORY.
2. ELECTRICIAN TO PROVIDE ELECTRICAL FEEDER/ELECTRICAL SERVICE FROM SITE TO LOAD CENTER.
3. ELECTRICIAN TO PROVIDE SERVICE GROUND/BUILDING GROUND PER CEC REQUIREMENTS.
4. ELECTRICIAN TO WIRE OUTDOOR CONDENSER UNIT EXTEND WIRING AND INTERCONNECT WIRING FROM INDOOR FAN COIL PER MANUFACTURERS DIRECTIONS. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR AS TO NOT IMPEDE CODE REQUIRED CLEARANCE FOR ELECTRICAL PANELS/SERVICE DISCONNECTS. PROVIDE GFCI PROTECTION PER CEC 210.8 (F).
5. PROVIDE BATH FAN SWITCH WITH VENTILATION CONTROL & DELAY TIMER. (LEGRAND RADIANT 4 BUTTON DIGITAL TIMER # RT2BKCCV4 OR EQUAL) . PROVIDE BATHROOM VACANCY SENSOR WITH MANUAL ON AND AUTOMATIC OFF, TITLE 24 COMPLIANT, LUTRON # VS306U VACANCY SENSOR SWITCH OR EQUAL.
6. WHOLE HOUSE VENTILATION SYSTEM FAN 120V., 1PH., 7W. WIRE TO CIRCUIT 14.
7. OUTDOOR WALL LAMP WITH INTEGRAL PHOTOCELL OR WITH ASTRONOMICAL TIMECLOCK (FURNISHED WITH UNIT INSTALLED ON SITE)
8. COMBINATION SMOKE/FIRE/CARBON MONOXIDE ALARM WITH BATTERY BACKUP. UNIVERSAL SECURITY INSTRUMENTS # MIC1509S HARDWIRED 3 IN 1 SMART ALARM WITH 10 YEAR SEALED BATTERY OR EQUAL. DETECTOR SHALL BE LOCATED MINIMUM OF 20 FEET FROM COOKING APPLIANCE. SHIPPED LOOSE, INSTALLED AND TESTED ONSITE.

CIRCUIT PROTECTION NOTES:

- ARC FAULT CIRCUIT INTERRUPTER PROTECTION SHALL BE PROVIDED FOR ALL 15 AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS AND DEVICES IN ACCORDANCE WITH CEC 210.12(A).
- GROUND FAULT CIRCUIT INTERRUPTER PROTECTION SHALL BE PROVIDED FOR ALL 15A AND 20A RECEPTACLES AND EQUIPMENT IN ACCORDANCE WITH CEC 210.8.

TR ADJACENT TO RECEPTACLE INDICATES TAMPER RESISTANT.

ALL 15A AND 20A RECEPTACLES SHALL BE TAMPER RESISTANT TYPE PER CEC 406.12 TAMPER-RESISTANT RECEPTACLES. ALL 15- AND 20-AMPERE, 125- AND 250-VOLT NONLOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN 406.12(1) THROUGH (7) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.
(1) DWELLING UNITS IN ALL AREAS SPECIFIED IN 210.52

ELECTRICAL CALCULATIONS (CEC)

17-Apr-2025

PROJECT: CALIFORNIA
JOB NUMBER: 24137
CALCULATION BY: SB

California Casita BXB-000012

PANEL DESIGNATION	A							
TOTAL AREA (SQ FT)	361	SERVICE:	120/240V., 1PH., 3W.					
GENERAL LIGHTING LOAD CALC	AREA	361	X			3	WT/SQ FT WT/SQ FT	1083 W GEN. LTG/REC
SMALL APPLIANCE		2	X	1 QTY OF UNITS	X	1500	WATTS	3000 W SM. APP.
LAUNDRY		1	X	1 QTY OF UNITS	X	1500	WATTS	1500 W LAUNDRY
				SUBTOTAL				5583
DEMAND								
1ST 20 KW		AT	100%	5583			=	5,583
WATER HEATER				5000	X	100%	=	5,000
DISHWASHER				900	X	100%	=	900
MISC				MISC	X	100%	=	0
MISC				0	X	100%	=	0
FAN COIL				240	X	100%	=	240
AC				2400	X	100%	=	2,400
ELECTRIC RANGE				9600	X	80%	=	7,680
LARGEST MOTOR				0	X	25%	=	0
TOTAL DEMAND:								21,803 WATTS
VOLTAGE:	240		1 PHASE					22 KW
AMPS:	90.8							
MINIMUM SERVICE SIZE:		91 AMPS						
SERVICE SIZE:		100 AMPS	PANEL MUST HAVE 225A BUSSING					

EQUIPMENT SCHEDULE

(#) MARK	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	AMPS	RECEPTACLE TYPE	CIRCUIT DATA: CIRCUIT NUMBER	CONDUCTORS: QTY.	SIZE	EQ. GND.	HEIGHT	BOXABL PART NUMBER
1	WASHER DRYER	120	1	10.0	5-20R	A-10	2	#12	#12	18" A.F.F.	APP-00013
2	HEAT PUMP WATER HEATER	240	1	21	6-30R	A-(6,8)	2	# 10	#10	18" A.F.F.	APP-000050
3	RANGE	240	1	40.0	14-50R*	A-(2,4)	2	#6	#10	18" A.F.F.	APP-000011
4	REFRIGERATOR	120	1	12	5-20R	A-5	2	#12	#12	18" A.F.F.	APP-000008
5	MICROWAVE	120	1	12	5-20R	A-7	2	#12	#12	84" A.F.F.	APP-000005
6	FAN COIL UNIT FCU-1	240	1	1.0	-	WIRE TO CU-1	3	#14	#14	-	HVC-000003
7	EXHAUST FAN EF-1	120	1	11 WATTS	-	A-13f	2	#12	#12	-	HVC-000052
8	OUTDOOR CONDENSER CU-1	240	1	15.0	-	A-(15,17)	2	#10	#10	-	HVC-000019
9	DISHWASHER	120	1	12	5-20R	A-16	2	#12	#12		APP-000002

*14-50R IS A THREE PHASE RECEPTACLE ONLY TWO PHASES USED. COORDINATE PHASING.

PANEL DATA SCHEDULE

PANEL NAME: A

LOCATION OUTDOOR
SERVICE 120/240V.,1PH.,3W.
MAIN BREAKER 100A-2P MINIMUM
MAIN LUGS ONLY
NEUTRAL BUS 225A
GROUND BUS YES
SHORT CIRCUIT RATING 10,000 RMS SYM AMPS

	CONNECTED LOAD	DEMAND LOAD
PHASE A	13.19 KVA	10.87 KVA
PHASE B	13.60 KVA	11.13 KVA
TOTAL	26.79 KVA	21.99 KVA
	112 AMPS	92 AMPS

DEMAND LOAD — FLUSH ☐ SURFACE ■

KEY: L: LIGHTING 0.19 KVA; R: RECEPTACLES 6.30 KVA; M: MOTORS 7.40 KVA; P: PANELS 0.00 KVA; T: TRANSFORMERS 0.00 KVA; E: EQUIPMENT 8.10 KVA; S & X: SPARE & SPACE 0.00 KVA

NOTES: NEMA 3R – SERVICE ENTRANCE RATED – MINIMUM OF 3 # 2 AWG SERVICE 225A MINIMUM BUSSING
* DENOTES LOCK-OUT CLIP: ** DENOTES GFI BREAKER: *** DENOTES VIA TIMECLOCK: **** DENOTES VIA CONTACTOR

CIRCUIT USE	CONNECTED LOAD A	CONNECTED LOAD B	CCT. NO.	CIRCUIT BREAKER	CIRCUIT BREAKER	CCT. NO.	CONNECTED LOAD A	CONNECTED LOAD B	CIRCUIT USE
R: WHOLE HOUSE	0		1	20A–2P	50A–2P	2	4,800		E: RANGE
R: SURGE PROTECTION DEVICE		0	3			4		4,800	E:
R: REFRIGERATOR	1,440		5	20A–1P AFGCI	30A–2P	6	2,500		M: WATER HEATER
R: MICROWAVE		1,440	7	20A–1P AFGCI		8		2,500	M:
R: BATHROOM RECEPTACLE	360		9	20A–1P AFGCI	20A–1P AFGCI	10	1,200		E: WASHER/DRYER
R: LIVING ROOM/EXTERIOR RECEPTS.		1,260	11	20A–1P AFGCI	20A–1P AFGCI	12		1,500	R: ROUTER/KITCHEN SMALL APPL.
L: BATH/KITCHEN/LIVING ROOM LTS	192		13	15A–1P AFCI	20A–1P AFGCI	14	1,500		R: DINING/KITCHEN SMALL APPL./ERV
M: CU-1/FCU-1		1,200	15	30A–2P	20A–1P AFGCI	16		900	R: DISHWASHER
M:	1,200		17		BLANKSPACE	18	0		X: BLANKSPACE
X: BLANKSPACE		0	19	BLANKSPACE	BLANKSPACE	20		0	X: BLANKSPACE
SUB TOTAL	3,192	3,900					10,000	9,700	SUB TOTAL

STAMP OF APPROVAL:

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

PROFESSIONAL SEAL:

REGISTERED PROFESSIONAL ENGINEER GREGORY L. DOFFING NO. 20783 ELECTRICAL STATE OF CALIFORNIA

SIGNATURE
04/18/2025 06/30/2026
DATE EXPIRATION DATE

DATE:	REV:	DESCRIPTION:
02-19-25	1	CLIENT REVISIONS
03-05-25	2	CLIENT REVISIONS
04-18-25	3	CLIENT REVISIONS

PROFESSIONAL SEAL:

sevan
DESIGN SOLUTIONS, P.C.
Corporate Office:
3025 Highland Parkway | Suite 850
Downers Grove, IL 60515
Contact Information:
info@sevansolutions.com
www.sevansolutions.com
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

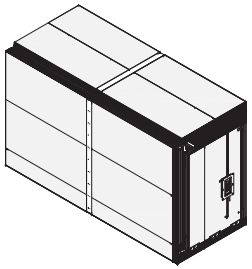
SHEET MANAGEMENT	
SHEET FORMAT:	ARCH C
SHEET SCALE:	1:3
CREATED BY:	KD
RELEASE DATE:	7/12/2024

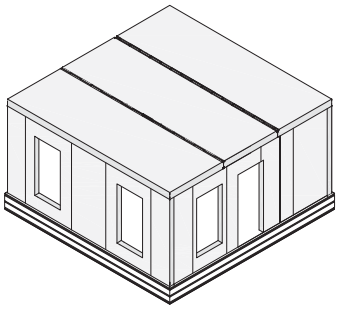
MODEL: BXB-000012
2 DOOR CASITA
(CALIFORNIA)

SHEET: E2.0

BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL





OPTIONAL EXTERIOR WALL CLADDING OPTIONS:

1-COAT STUCCO (5 psf MAX. ALLOWED) OR OTHER WALL SIDING CONNECTIONS TO THE WALLS MUST BE DESIGNED BY OTHERS AND APPROVED AT THE LOCAL LEVEL BY THE AUTHORITY HAVING JURISDICTION.
SEE S1.2 FOR SEISMIC LIMITS. SIDING OTHER THAN HARDI-PANEL OR HARDI PLANKS MUST NOT EXCEED THE WEIGHT OF THOSE PRODUCTS WITHOUT SPECIAL EVALUATION BY THE ENGINEER.

STATEMENT OF SPECIAL INSPECTIONS:

THE OWNER OR OWNER'S REPRESENTATIVE SHALL HIRE A SPECIAL INSPECTOR, APPROVED BY THE AUTHORITY HAVING JURISDICTION, TO PERFORM PERIODIC INSPECTION OF THE INSTALLATION OF THE TITEN HD ANCHORS SPECIFIED ON DETAIL A / S3. INSPECTION TO INCLUDE VERIFICATION OF THE ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANING PROCEDURE, CONCRETE TYPE, COMPRESSIVE STRENGTH, HOLE DIMENSION, ANCHOR SPACING, EDGE DISTANCE, INSTALLATION TORQUE, MAXIUMUM IMPACT WRENCH TORQUE RATING AND ADHERENCE TO SIMPSON'S PUBLISHED INSTALLATION INSTRUCTIONS. 1

SPECIAL INSPECTION AND QUALITY CONTROL/ASSURANCE REQ'TS OF THE STEEL BEAM, HINGE AND HINGE WELDING, FOUND IN THE BOXABL QUALITY CONTROL MANUAL, TO BE BASED ON THE REQ'TS OF IBC SECTION 1704 AND 1705.2.1 AND MODELED ON THE RELEVENT REQ'TS OF AISC 360-22 CHAPTER N. ALTERNATIVELY, (OR IN ADDITION) DESTRUCTIVE TESTING, OBSERVED BY AN INDEPENDENT, 3rd PARTY INSPECTOR, SHALL OCCUR AT REGULAR, ADJUSTABLE INTERVALS AS DETERMINED BY THE ENGINEER AND/OR THE CALIFORNIA DEPT. OF HOUSING & COMMUNITY DEVELOPMENT. ADDITIONAL SPECIAL INSPECTIONS WITH RESPECT TO IBC SECTION 1705.1.1 TO BE AT THE DISCRETION OF THE CALIFORNIA DEPT. OF HOUSING & COMMUNITY DEVELOPMENT.

ROOF REQUIREMENTS & LIMITATIONS:

SEE TABLE 4 ON S1.1 FOR MAXIMUM ALLOWED ROOFING WEIGHTS. HIGHER WEIGHTS MAY BE POSSIBLE, BUT REQUIRES A CUSTOM ANALYSIS BY THE ENGINEER.

SHINGLES OR TILE ATTACHMENT TO ROOF SHEATHING TO BE DESIGNED BY OTHERS FOR A MININUM OF 35 psf APPLIED WIND UPLIFT.

ROOFING IN A WILDLAND-URBAN INTERFACE (WUI) TO HAVE A CLASS "A" FIRE RATING PER ASTM E108 OR UL790. 1

SEE SHEETS S9 THRU S18 FOR MORE INFORMATION ON TAPERED INSULATION ROOFS & OPTIONAL AFTERMARKET ROOF TRUSS REQ'TS.

THESE DRAWINGS SHALL NOT BE USED FOR SITE-SPECIFIC INSTALLATION OR SUBMITTED TO ANY BUILDING DEPARTMENT FOR PERMIT UNLESS FIRST APPROVED BY THE CALIFORNIA DEPT. OF HOUSING & COMMUNITY DEVELOPMENT

THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE WIND, SNOW AND SEISMIC CONDITIONS ARE WITHIN ALLOWABLE LIMITS INDICATED ON SHEETS S1 THRU S1.3, AS WELL AS INVESTIGATING FOR SOIL LIQUIFACTION POTENTIAL, COLLAPSIBLE SOIL,CORROSIVE SOIL OR EXPANSIVE SOIL CONDITIONS - EACH OF WHICH REQUIRES A CUSTOM, SITE-SPECIFIC ENGINEERED FOUNDATION DESIGN

EXPIRATION:

THESE DRAWINGS EXPIRE ON AND MUST BE RE-SUBMITTED UPON CALIFORNIA'S ADOPTION OF THE NEXT IBC/IRC, OR THE ENGINEER'S LICENSE EXPIRATION DATE INDICATED BELOW:

EXPIRES 6-30-26

SITE-SPECIFIC WIND, SEISMIC, FLOOD CONDITIONS

TO BE FILLED IN BY THE DEALER/INSTALLER AT EACH SITE FOR LOCAL PERMITTING AFTER THESE DRAWINGS HAVE BEEN PRE-APPROVED FOR STATE-WIDE USE BY THE CALIFORNIA DEPT. OF HOUSING & COMMUNITY DEVELOPMENT

SITE ADDRESS: _____

WIND EXPOSURE: _____

WIND SPEED: _____ mph ALLOWED WIND SPEED: _____ mph

SITE SEISMIC Sms : _____ ALLOWED Sms : _____

SITE SEISMIC Ss : _____ ALLOWED Ss : _____

SITE GROUND SNOW LOAD :_____ psf

ALLOWED GROUND SNOW LOAD :_____ psf

SITE IS ABOVE LOCAL CODE-REQ'D HEIGHT ABOVE THE BASE FLOOD ELEV. (BFE) IF IN A FLOOD HAZARD AREA ☐ N/A ☐

SOIL SUITABILITY CONSIDERED (SEE NOTES ON S3) AND DISCUSSED WITH OWNER ☐ 1

SITE IS NOT ON A HILL OR WITHIN 1,000 FT OF AN ESCARPMENT ☐

DEALER/INSTALLER COMPANY : _____

PRINTED NAME : _____

DATE: _____

LIMITATIONS: WIND[2] - SNOW - SEISMIC

SEE FOOTNOTE 5 FOR DETERMINATION OF WIND LOADS, SNOW LOADS & SEISMIC FACTORS AT SITE OF INSTALLATION	LOW-PITCH (1/2 : 12) ROOFS		HIGH PITCH ROOFS GABLE (3:12, 6:12, 9:12), MONOSLOPE (3:12), HIP (3:12)	
WIND EXPOSURE [1]	B	C	SEE SHEET S1.1 1	
MAX. ALLOWED [4] WIND SPEED	140 mph	120 mph		
MAXIMUM ALLOWED [3] GROUND SNOW LOAD (Pg)	40 psf			
MAXIMUM ALLOWED [5] SEISMIC Sms	3.30 3.1 IF STUCCO USED		SEISMIC CATEGORY A,B, C .75 IF SITE VALUE IS HIGHER USE CAT. D, E	SEISMIC CATEGORY D, E SEE SHEET S1.2
MAXIMUM ALLOWED [5] SEISMIC Ss	2.75 2.58 IF STUCCO USED		SEISMIC CATEGORY A,B, C .63 IF SITE VALUE IS HIGHER USE CAT. D, E	SEISMIC CATEGORY D, E SEE SHEET S1.2

1 EXPOSURE B IS URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN w/ NUMEROUS CLOSELY SPACED OBSTRUCTIONS THAT HAVE A SIZE OF A SINGLE-FAMILY DWELLING. THESE CONDITIONS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE GREATER THAN 1,800 FT. LARGE NEARBY FIELDS OR PARKING LOTS CAN TRIGGER EXPOSURE C. 1

EXPOSURE C IS OPEN TERRAIN w/ SCATTERED OBSTRUCTIONS THAT HAVE HEIGHTS GENERALLY LESS THAN 30 FT. THIS INCLUDES FLAT, OPEN COUNTRY AND GRASSLANDS.

EXPOSURE D (NOT ALLOWED) IS FLAT, UNOBSTRUCTED AREAS (MUD FLATS, SALT FLATS) AND WATER SURFACES. THESE CONDITIONS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE > 5,000 FT. THIS EXPOSURE ALSO APPLIES WHERE EXPOSURE B OR C OCCURS WITHIN THE FIRST 600 FT OF THE SITE.

2 CASITAS LOCATED ON HILLS OR WITHIN 1,000 FT OF AN ESCARPMENT WILL REQUIRE SPECIAL EVALUATION BY THE STRUCTURAL ENGINEER.

3 IF LOCATED TIGHT IN AMONG CONIFER TREES MULTIPLY LOAD BY 0.83

4 BASIC (ULTIMATE) WIND SPEED AS DEFINED BY THE INTERNATIONAL BUILDING CODE.

5 FIND WIND SPEED, GROUND SNOW LOAD, SEISMIC CATEGORY & SEISMIC Sms & Ss VALUES AT ASCEHAZARDTOOL.ORG USING ASCE/SEI 7-16, RISK CATEGORY II, ASSUMED SOIL CLASS "D". VERIFY BASIC (ULTIMATE) WIND AND GROUND SNOW LOAD VALUES WITH THE LOCAL OR COUNTY BUILDING DEPARTMENT. DEALER/INSTALLER IS RESPONSIBLE FOR VERIFYING THE WIND, SNOW & SEISMIC FACTORS ARE WITHIN THE ALLOWABLE LIMITS IN TABLE ABOVE.

FOUNDATIONS :

FOUNDATIONS SHOULD NOT BE LOCATED IN AREAS WHERE SOIL IS SUBJECT TO CORROSION, EXPANSION, LIQUIFACTION OR COLLAPSE - INSTALLER TO VERIFY BEFORE CUSTOMER MAKES A PURCHASE.

THE FOUNDATION DESIGN SHOWN ON S3 IS INTENDED FOR LEVEL GROUND, EXTENDING AT LEAST 6 FT AWAY FROM THE PERIMETER. FOR SLOPED GRADE CONDITIONS, FLOOD CONDITIONS, OR FOR OTHER FOUNDATION TYPES, THE ENGINEER BELOW.

California Department of Housing and Community Development

2-Door Studio Casita

Model # BXB-000012

DESIGN CRITERIA (CODE: 2022 CBC):

APPLIED LOADS

ROOF LIVE LOAD : 20 psf

SNOW LOAD : SEE TABLE AT LEFT AND SHEET S1.1

ROOF DEAD LOAD :

SIP ROOF: 4 psf + 3 psf ALLOTTED FOR SITE INSTALLED EPDM.

FOR HIGH-PITCHED ROOFS THE ADDITIONAL WEIGHT VARIES. SEE TABLE 4 ON S1.1 FOR ROOFING MATERIAL WEGHT LIMITS. 1

FLOOR LIVE LOAD : 40 psf FLOOR DEAD LOAD: 5 psf

BASIC WIND SPEED : SEE LIMITS IN TABLE AT LEFT.
(ASD) $q_h = q_z$ = 16.0 psf (MAX) FOR LOW-PITCH ROOFS
= 14.7 psf (MAX) FOR HIGH-PITCH ROOFS 1
ASCE7-16 26.10.2

SEISMIC FACTORS:

I = 1 SEE TABLE AT LEFT FOR Sms & Ss LIMITS

SITE CLASS = D (default) Fa = 1.2 (MINIMUM)

SEISMIC DESIGN CATEGORY = E (MAX. ALLOWED).

BASIC SEISMIC FORCE RESISTING SYSTEM = LIGHT-FRAMED WALLS w/ SHEAR PANELS OF MGO & STEEL

R = 6.5 PER ICC-ESR #4725

ANALYSIS PROCEDURE: *EQUIV. LATERAL FORCE*

STAMP OF APPROVAL

Approved For State of California Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

DATE:	REV:	DESCRIPTION:
4-18-25	1	NOTE CHANGES

* CONFIDENTIAL

AS INSTRUMENTS OF SERVICE, THESE DRAWINGS SHALL REMAIN THE PROPERTY OF SIP ENGINEERING CONSULTANTS, LLC WHO SHALL RETAIN ALL COMMON LAW, STATUTORY & OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS (ONLY FOR INFO. WITHIN THE MAIN DRAWING AREA). REPRODUCTION IS PROHIBITED WITHOUT THE EXPRESSED, WRITTEN PERMISSION OF SIP ENGINEERING CONSULTANTS, LLC.

REGISTERED PROFESSIONAL ENGINEER — MIKE J. NELSON — C 62770 — EXP. 6-30-26 — CIVIL — STATE OF CALIFORNIA — 5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S1

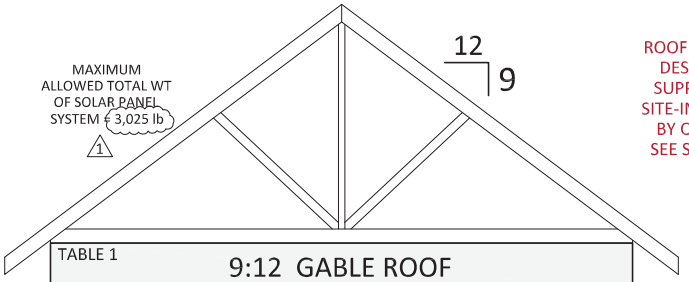
MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL



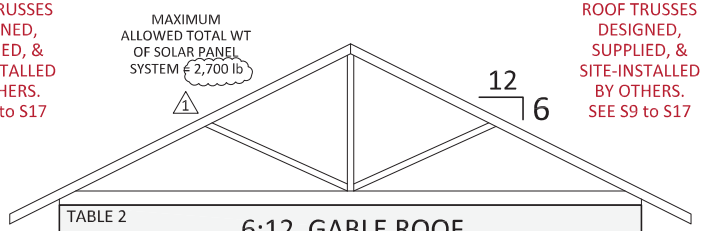
ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS. SEE S9 to S17

TABLE 1 — 9:12 GABLE ROOF

CALIFORNIA - MAX. ALLOWED BASIC (ULTIMATE) WIND SPEED (mph)

GROUND SNOW (psf) [1]	3-TAB ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		METAL ROOF w/ SLIDING SNOW		METAL ROOF SNOW SLIDE RESTRAINED	
	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C
0 - 30	135	115	135	115	135	115	135	115	135	115
40	134	110	120	98	131	107	135	115	135	115
50	121	99	105	86	117	96	135	115	131	107
60	106	87	89	73	103	84	135	115	118	97
70	90	74	NOT ALLOWED		85	70	135	115	104	85
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		135	111	NOT ALLOWED	
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		128	105	NOT ALLOWED	
100	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		121	99	NOT ALLOWED	
110	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		114	93	NOT ALLOWED	
120	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		105	86	NOT ALLOWED	
130	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		95	78	NOT ALLOWED	
140	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

1 IF LOCATED TIGHT IN AMONG CONIFER TREES MULTIPLY THE SITE SNOW LOAD BY 1.2 BEFORE USING THE TABLE.



ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS. SEE S9 to S17

TABLE 2 — 6:12 GABLE ROOF

CALIFORNIA - MAX. ALLOWED BASIC (ULTIMATE) WIND SPEED (mph)

GROUND SNOW (psf) [1]	3-TAB ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		METAL ROOF w/ SLIDING SNOW		METAL ROOF SNOW SLIDE RESTRAINED	
	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C
0 - 30	135	115	135	115	135	115	135	115	135	115
35	135	115	132	108	135	115	135	115	135	115
40	135	115	126	103	134	112	135	115	135	115
45	132	108	120	98	131	107	135	115	135	115
55	118	97	105	86	97	118	135	115	131	107
65	105	86	89	73	104	85	135	115	118	97
75	89	73	NOT ALLOWED		NOT ALLOWED		134	110	104	85
85	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		125	102	NOT ALLOWED	
115	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		94	77	NOT ALLOWED	
130	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

1 IF LOCATED TIGHT IN AMONG CONIFER TREES MULTIPLY THE SITE SNOW LOAD BY 1.2 BEFORE USING THE TABLE.

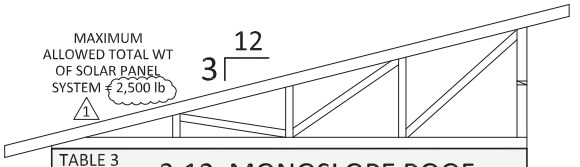


TABLE 3 — 3:12 MONOSLOPE ROOF

CALIFORNIA MAX.ALLOWED BASIC (ULTIMATE) WIND SPEED (mph)

GROUND SNOW (psf) [1]	3-TAB ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		STANDING SEAM METAL	
	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C
0 - 30	135	115	135	115	135	115	135	115
40	135	115	128	105	135	115	135	115
50	126	103	116	95	126	103	134	113
60	115	94	101	83	114	93	125	102
70	96	79	NOT ALLOWED		98	80	112	92
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		95	78
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

1 IF LOCATED TIGHT IN AMONG CONIFER TREES MULTIPLY THE SITE SNOW LOAD BY 1.2 BEFORE USING THE TABLE.

WIND vs SNOW LIMITS IN CALIFORNIA

ATTN: DEALER / INSTALLER

FIND BASIC (ULTIMATE) WIND SPEEDS & SNOW LOADS AT *ASCEHAZARDTOOL.ORG* USING:
ASCE/SEI 7-16
RISK CATEGORY II

VERIFY VALUES WITH THE AUTHORITY HAVING JURISDICTION (IF THEY ONLY PROVIDE "NOMINAL" WIND SPEEDS, MULTIPLY BY 1.29 TO GET "ULTIMATE" SPEEDS. IF THEY ONLY PROVIDE "ROOF" SNOW LOADS, MULTIPLY BY 1.43 TO GET "GROUND SNOW LOADS).

EXPOSURE B IS URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN w/ NUMEROUS,CLOSELY SPACED OBSTRUCTIONS THAT HAVE A SIZE OF A SINGLE-FAMILY DWELLING. THESE CONDITIONS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE GREATER THAN 1,500 FT. LARGE, NEARBY FIELDS OR PARKING LOTS MAY TRIGGER EXPOSURE "C" . . . IF UNSURE, USE EXPOSURE "C".

EXPOSURE C IS OPEN TERRAIN w/ SCATTERED OBSTRUCTIONS THAT HAVE HEIGHTS GENERALLY LESS THAN 30 FT. THIS INCLUDES FLAT, OPEN COUNTRY AND GRASSLANDS.

EXPOSURE D (NOT ALLOWED) IS FLAT, UNOBSTRUCTED AREAS (MUD FLATS, SALT FLATS) AND WATER SURFACES. THESE CONDITIONS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE > 5,000 FT. THIS EXPOSURE ALSO APPLIES WHERE EXPOSURE B OR C OCCURS WITHIN THE FIRST 600 FT OF THE SITE.

CASITAS LOCATED ON HILLS OR WITHIN 1,000 FT OF AN ESCARPMENT WILL REQUIRE SPECIAL EVALUATION BY THE STRUCTURAL ENGINEER.

TABLE 4 — CALIFORNIA GROUND SNOW LOAD LIMITS (psf)[5,6]

BASED ON TRUSS BEARING STRESS OR WALL STRENGTH LIMITATIONS [1]

TRUSS SPACING	3-TAB ASPHALT SHINGLES [8] Weight = 3 psf (MAX.)		CONCRETE TILE [8] Weight = 11 psf (MAX.)		CLAY TILE [8] Weight = 6.5 psf (MAX.)		METAL ROOF w/ SLIDING SNOW [7,8] Weight = 1.75 psf (MAX.)		METAL ROOF [8] SNOW SLIDE RESTRAINED Weight = 1.75 psf (MAX.)	
	24"oc	16"oc	24"oc	16"oc	24"oc	16"oc	24"oc	16"oc	24"oc	16"oc
9:12 GABLE	36	68	28	60	35	68	75	130	44	77
6:12 GABLE	40	73[4]	32	65	39	73[4]	68	115[3]	47	80[4]
3:12 GABLE	41	75	34	68	41	74[4]	48	81[4]	48	81[4]
3:12 QUAD HIP	41	63[2]	34	56[2]	41	63[2]	48[2]	70[2]	48[2]	70[2]
3:12 MONOSLOPE	41	74	34	67	41	74	48	81	48	81

1 WALL STRENGTH LIMITS ARE BASED ON WIND SPEED LIMIT OF 93 mph, EXPOSURE "B". WHERE WIND SPEEDS ARE GREATER AND/OR FOR WIND EXPOSURE "C" CONDITIONS, THE ALLOWABLE SNOW LOADS MAY BE SMALLER (*SEE WIND SPEED vs SNOW LOAD TABLES*).

VALUES MAY DIFFER FROM THE TRUSS MNFR'S MORE THOROUGH ANALYSIS, AND, IF LOWER, CAN BE INCREASED WITH ADD-ON BEARING BLOCKS DESIGNED BY THE TRUSS MNFR, BUT SHALL NOT EXCEED THE TABULATED VALUES ABOVE, OR THE VALUES FOUND IN THE *WIND SPEED vs SNOW LOAD* TABLES.

2 GROUND SNOW LOADS > 46.7 psf WILL REQUIRE A TRUSS DESIGN THAT IS NOT CURRENTLY INCLUDED IN THE TRUSS MNFR'S AVAILABLE PRE-ENGINEERED OPTIONS.

3 GROUND SNOW LOADS > 98 psf (ADJUSTED TO 70 psf DUE TO SLIDING) WILL REQUIRE A TRUSS DESIGN THAT IS NOT CURRENTLY INCLUDED IN THE TRUSS MNFR'S AVAILABLE PRE-ENGINEERED OPTIONS (IF ORDERING TRUSSES THRU BOXABL, INC.)

4 GROUND SNOW LOADS > 70 psf WILL REQUIRE A TRUSS DESIGN THAT IS NOT CURRENTLY INCLUDED IN THE TRUSS MNFR'S AVAILABLE PRE-ENGINEERED OPTIONS.

5 IF LOCATED TIGHT IN AMONG CONIFER TREES MULTIPLY SNOW LOAD LIMITS BY 0.83

6 CASITAS MUST BE LOCATED FAR ENOUGH FROM TALLER ADJACENT BUILDINGS SO THAT SNOW DRIFT OR SLIDING SNOW BUILD-UP DOES NOT OCCUR.

7 THE AREA SURROUNDING THE CASITA MUST BE CLEAR OF ANY OBSTRUCTIONS OR ADJACENT STRUCTURES THAT COULD LIMIT THE AMOUNT OF SNOW THAT COULD SLIDE OFF THE ROOF.

8 ROOFING MATERIALS IN A WILDLAND-URBAN INTERFACE (WUI) MUST HAVE A CLASS "A" FIRE RATING BY ASTM E108 OR UL790.

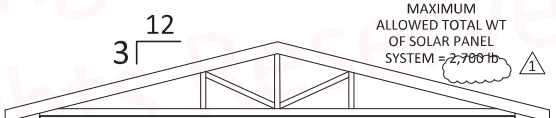


TABLE 5 — 3:12 GABLE or QUAD HIP ROOF

CALIFORNIA MAX. ALLOWED BASIC (ULTIMATE) WIND SPEED (mph)

GROUND SNOW (psf) [1]	3-TAB ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		STANDING SEAM METAL	
	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C
0 - 30	135	115	135	115	135	115	135	115
40 [2]	135	115	131	107	135	115	135	115
50 [2]	128	105	116	95	128	105	134	114
60 [2]	116	95	103	84	115	94	127	98
70 [2]	101	83	NOT ALLOWED		99	81	114	93
80 [2]	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		98	80
90 [2]	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

1 IF LOCATED TIGHT IN AMONG CONIFER TREES MULTIPLY THE SITE SNOW LOAD BY 1.2 BEFORE USING THE TABLE.

2 HIP ROOFS WITH GROUND SNOW LOAD > 46 psf WILL REQUIRE A SPECIAL ORDER FROM THE TRUSS MANUFACTURER (IF USING UFP INDUSTRIES, INC. STANDARD BOXABL DESIGNS).

SITES THAT EXCEED THE LIMITS IN THESE TABLES MIGHT BE STILL BE ACCEPTABLE IF THE COMBINATION OF SOLAR PANEL SYSTEM WEIGHT & ROOF MATERIAL WEIGHTS (SEE GROUND SNOW LOAD LIMITS TABLE) ARE LESS THAN THOSE INDICATED. CONTACT BOXABL OR THE ENGINEER IF A SITE-SPECIFIC ENGINEERING ANALYSIS IS DESIRED.

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS. SEE S9 to S17

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:
4-18-25	1	MISC. CHANGES

* CONFIDENTIAL

AS INSTRUMENTS OF SERVICE, THESE DRAWINGS SHALL REMAIN THE PROPERTY OF SIP ENGINEERING CONSULTANTS, LLC WHO SHALL RETAIN ALL COMMON LAW, STATUTORY & OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS (ONLY FOR INFO. WITHIN THE MAIN DRAWING AREA). REPRODUCTION IS PROHIBITED WITHOUT THE EXPRESSED, WRITTEN PERMISSION OF SIP ENGINEERING CONSULTANTS, LLC.

REGISTERED PROFESSIONAL ENGINEER — MIKE J. NELSON — C 62770 — EXP. 6-30-26 — CIVIL — STATE OF CALIFORNIA — 5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S1.1

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

9:12 GABLE ROOF

NO STUCCO OR SIDING (EXCEPT SIDING ALLOWED ON GABLE END TRUSS)

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	3-TAB ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		METAL ROOF w/ SLIDING SNOW		METAL ROOF SNOW SLIDE RESTRAINED	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 20	1.73	1.44	1.46	1.22	1.70	1.42	2.08	1.73	2.08	1.73
30	1.73	1.44	1.42	1.18	1.79	1.42	2.08	1.73	2.08	1.73
40	1.67	1.39	1.36	1.13	1.62	1.35	2.08	1.73	2.08	1.73
50	1.57	1.31	1.28	1.07	1.52	1.27	2.08	1.73	1.90	1.58
60	1.46	1.22	1.20	1.00	1.43	1.19	2.08	1.73	1.78	1.48
70	NOT ALLOWED		NOT ALLOWED		1.33	1.11	2.08	1.73	1.65	1.38
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.95	1.63	NOT ALLOWED	
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.87	1.56	NOT ALLOWED	
100	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.81	1.51	NOT ALLOWED	
110	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.73	1.44	NOT ALLOWED	
120	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.66	1.38	NOT ALLOWED	
130	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.58	1.32	NOT ALLOWED	
140	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

9:12 GABLE ROOF 1-COAT STUCCO (5 psf MAX.)

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	3-TAB ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		METAL ROOF w/ SLIDING SNOW		METAL ROOF SNOW SLIDE RESTRAINED	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 20	1.44	1.20	1.25	1.04	1.43	1.19	1.69	1.41	1.69	1.41
30	1.44	1.20	1.22	1.02	1.43	1.19	1.69	1.41	1.69	1.41
40	1.41	1.18	1.22	1.02	1.39	1.16	1.69	1.41	1.69	1.41
50	1.35	1.13	1.16	.97	1.30	1.08	1.69	1.41	1.58	1.32
60	1.21	1.01	1.07	0.89	1.26	1.05	1.69	1.41	1.47	1.23
70	NOT ALLOWED		NOT ALLOWED		1.16	.97	1.69	1.41	1.38	1.15
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.59	1.33	NOT ALLOWED	
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.54	1.28	NOT ALLOWED	
100	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.48	1.23	NOT ALLOWED	
110	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.43	1.19	NOT ALLOWED	
120	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.38	1.15	NOT ALLOWED	
130	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.33	1.11	NOT ALLOWED	
140	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

9:12 GABLE ROOF HARDI®PANEL SIDING HARDI®PLANK SIDING

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	3-TAB ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		METAL ROOF w/ SLIDING SNOW		METAL ROOF SNOW SLIDE RESTRAINED	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 20	1.49	1.24	1.32	1.10	1.52	1.27	1.81	1.51	1.81	1.51
30	1.49	1.24	1.30	1.08	1.52	1.27	1.81	1.51	1.81	1.51
40	1.42	1.18	1.28	1.07	1.48	1.23	1.81	1.51	1.81	1.51
50	1.35	1.13	1.18	.98	1.37	1.14	1.81	1.51	1.69	1.51
60	1.27	1.06	1.11	.93	1.29	1.08	1.81	1.51	1.57	1.31
70	NOT ALLOWED		NOT ALLOWED		1.21	1.01	1.81	1.51	1.47	1.23
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.73	1.44	NOT ALLOWED	
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.64	1.37	NOT ALLOWED	
100	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.58	1.32	NOT ALLOWED	
110	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.53	1.28	NOT ALLOWED	
120	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.47	1.23	NOT ALLOWED	
130	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.41	1.18	NOT ALLOWED	
140	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

THE SEISMIC FACTORS IN THE TABLES ASSUME A SOIL SITE CLASS OF "D". IF A GEOTECHNICAL ANALYSIS YIELDS A SITE CLASS OF "C" OR LESS, THEN THE SITE SEISMIC Sms & Ss FACTORS WILL BE ABOUT 84% OF THOSE UNDER SITE CLASS "D" INQUIRE WITH A LOCAL GEOTECHNICAL ENGINEER ABOUT THE LIKELIHOOD OF A SITE CLASS "B".

ALSO, SITES THAT EXCEED THE LIMITS IN THESE TABLES MIGHT BE STILL BE ACCEPTABLE IF THE COMBINATION OF SOLAR PANEL SYSTEM WEIGHT & ROOF MATERIAL WEIGHTS (SEE GROUND SNOW LOAD LIMITS TABLE) ARE LESS THAN THOSE INDICATED. CONTACT BOXABL OR THE ENGINEER IF A SITE-SPECIFIC ENGINEERING ANALYSIS IS DESIRED.

SEE ALSO SHEET S1.3 FOR HIGHER ALLOWABLE Sms & Ss IF SOLAR PANELS ARE NOT USED AND/OR RE-ROOF ALOWANCE FOR ASPHALT SHINGLES IS NOT USED.

6:12 GABLE ROOF

NO STUCCO OR SIDING (EXCEPT SIDING ALLOWED ON GABLE END TRUSS)

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		METAL ROOF w/ SLIDING SNOW		METAL ROOF SNOW SLIDE RESTRAINED	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 30	1.82	1.52	1.60	1.33	1.85	1.54	2.24	1.87	2.24	1.87
40	1.78	1.48	1.55	1.29	1.81	1.51	2.24	1.87	2.24	1.87
50	1.68	1.40	1.46	1.22	1.71	1.43	2.24	1.87	2.12	1.77
60	1.57	1.31	1.36	1.13	1.60	1.33	2.24	1.87	1.97	1.64
70	1.45	1.21	NOT ALLOWED		1.48	1.23	2.12	1.77	1.83	1.53
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		2.03	1.69	1.68	1.40
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.93	1.61	NOT ALLOWED	
100	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.83	1.53	NOT ALLOWED	
110	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.73	1.44	NOT ALLOWED	
120	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

6:12 GABLE ROOF 1-COAT STUCCO (5 psf MAX.)

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		METAL ROOF w/ SLIDING SNOW		METAL ROOF SNOW SLIDE RESTRAINED	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 30	1.53	1.28	1.37	1.14	1.56	1.30	1.83	1.53	1.83	1.53
40	1.49	1.24	1.32	1.10	1.51	1.26	1.83	1.53	1.83	1.52
50	1.41	1.18	1.35	1.04	1.43	1.19	1.83	1.53	1.71	1.43
60	1.33	1.11	1.18	.98	1.35	1.13	1.83	1.53	1.63	1.36
70	1.25	1.04	NOT ALLOWED		1.27	1.06	1.72	1.43	1.51	1.26
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.65	1.38	1.41	1.18
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.58	1.32	NOT ALLOWED	
100	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.51	1.26	NOT ALLOWED	
110	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.44	1.20	NOT ALLOWED	
120	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

6:12 GABLE ROOF HARDI®PANEL SIDING HARDI®PLANK SIDING

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		METAL ROOF w/ SLIDING SNOW		METAL ROOF SNOW SLIDE RESTRAINED	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 30	1.68	1.40	1.45	1.21	1.66	1.38	1.96	1.63	1.96	1.63
40	1.64	1.37	1.42	1.18	1.62	1.35	1.96	1.63	1.96	1.63
50	1.55	1.29	1.31	1.09	1.52	1.27	1.96	1.63	1.83	1.53
60	1.46	1.22	1.23	1.03	1.43	1.19	1.96	1.63	1.72	1.43
70	1.36	1.13	NOT ALLOWED		1.34	1.12	1.85	1.54	1.61	1.34
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.77	1.48	1.50	1.25
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.69	1.41	NOT ALLOWED	
100	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.61	1.34	NOT ALLOWED	
110	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.53	1.28	NOT ALLOWED	
120	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

3:12 GABLE ROOF MONOSLOPE ROOF

NO STUCCO OR SIDING (EXCEPT SIDING ALLOWED ON GABLE END TRUSS)

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		STANDING SEAM METAL	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 30	1.98	1.65	1.69	1.41	1.95	1.63	2.34	1.95
40	1.98	1.65	1.64	1.37	1.95	1.63	2.34	1.95
50	1.81	1.51	1.50	1.25	1.76	1.47	2.16	1.80
60	1.68	1.40	1.40	1.17	1.65	1.38	2.02	1.68
70	1.56	1.30	NOT ALLOWED		1.53	1.28	1.87	1.56
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.72	1.43
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

3:12 GABLE ROOF MONOSLOPE ROOF 1-COAT STUCCO (5 psf MAX.)

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		STANDING SEAM METAL	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 30	1.63	1.36	1.42	1.18	1.61	1.34	1.87	1.56
40	1.63	1.36	1.39	1.16	1.61	1.34	1.87	1.56
50	1.53	1.28	1.29	1.08	1.48	1.23	1.74	1.45
60	1.41	1.18	1.22	1.02	1.39	1.16	1.64	1.37
70	1.33	1.11	NOT ALLOWED		1.31	1.09	1.54	1.28
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.44	1.20
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

3:12 GABLE ROOF MONOSLOPE ROOF HARDI®PANEL SIDING HARDI®PLANK SIDING

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		STANDING SEAM METAL	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 30	1.69	1.41	1.51	1.26	1.71	1.43	2.01	1.68
40	1.68	1.41	1.47	1.23	1.71	1.43	2.01	1.68
50	1.54	1.28	1.36	1.13	1.57	1.31	1.97	1.56
60	1.45	1.21	1.28	1.07	1.47	1.23	1.76	1.47
70	1.36	1.13	NOT ALLOWED		1.38	1.15	1.65	1.38
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.53	1.28
90	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

3:12 QUAD HIP ROOF

NO STUCCO OR SIDING (EXCEPT SIDING ALLOWED ON GABLE END TRUSS)

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		STANDING SEAM METAL	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 30	1.96	1.63	1.72	1.43	1.98	1.65	2.40	2.00
40	1.96	1.63	1.64	1.37	1.98	1.65	2.40	2.00
50	1.79	1.49	1.54	1.28	1.82	1.52	2.25	1.88
60	1.67	1.39	NOT ALLOWED		1.70	1.42	2.10	1.75
70	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.94	1.62
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

3:12 QUAD HIP ROOF 1-COAT STUCCO (5 psf MAX.)

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		STANDING SEAM METAL	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 30	1.70	1.42	1.52	1.27	1.72	1.43	2.03	1.69
40	1.67	1.39	1.44	1.20	1.70	1.42	2.03	1.69
50	1.54	1.28	1.36	1.13	1.56	1.30	1.86	1.55
60	1.45	1.21	NOT ALLOWED		1.47	1.23	1.75	1.46
70	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.64	1.37
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

3:12 QUAD HIP ROOF HARDI®PANEL SIDING HARDI®PLANK SIDING

CALIFORNIA SEISMIC LIMITS FOR HIGH PITCH ROOFS IN CATEGORY D & E

GROUND SNOW (psf)	ASPHALT SHINGLES		CONCRETE TILE		CLAY TILE		STANDING SEAM METAL	
	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT	SMS LIMIT	SS LIMIT
0 - 30	1.78	1.48	1.58	1.32	1.81	1.51	2.15	1.79
40	1.67	1.39	1.50	1.25	1.80	1.50	2.15	1.79
50	1.62	1.35	1.42	1.18	1.65	1.38	1.99	1.66
60	1.52	1.27	NOT ALLOWED		1.55	1.29	1.86	1.55
70	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		1.74	1.45
80	NOT ALLOWED		NOT ALLOWED		NOT ALLOWED		NOT ALLOWED	

SEISMIC vs SNOW LIMITS IN CALIFORNIA

ATTN: DEALER / INSTALLER

FIND SEISMIC CATEGORY & SEISMIC Sms & Ss VALUES AT *ASCEHAZARDTOOL.ORG* USING:
ASCE/SEI 7-16
RISK CATEGORY II
SITE SOIL CLASS "D" - UNLESS THE AUTHORITY HAVING JURISDICTION OR GEOTECHNICAL DATA DETERMINES SITE CLASS "E" OR "F" SOILS ARE PRESENT AT THE SITE, IN WHICH CASE A SITE-SPECIFIC SEISMIC ENGINEERING ANALYSIS IS REQUIRED.

IF THE SEISMIC CATEGORY IS NOT PROVIDED, THEN THE CATEGORY SHALL BE CONSIDERED "D" IF:
THE SEISMIC FACTOR Ss ≥ .75 / Fa,
WHERE (Fa = 1.2 min.)
OR, IF SD1 ≥ .2

IF LOCATED TIGHT IN AMONG CONIFER TREES MULTIPLY THE SITE SNOW LOAD BY 1.2 BEFORE USING ANY TABLE.

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances not it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:
4-18-25	1	TABLE VALUE & NOTE CHANGES

REGISTERED PROFESSIONAL ENGINEER MIKE J. NELSON C 62770 EXP. 6-30-26 CIVIL STATE OF CALIFORNIA 5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S1.2

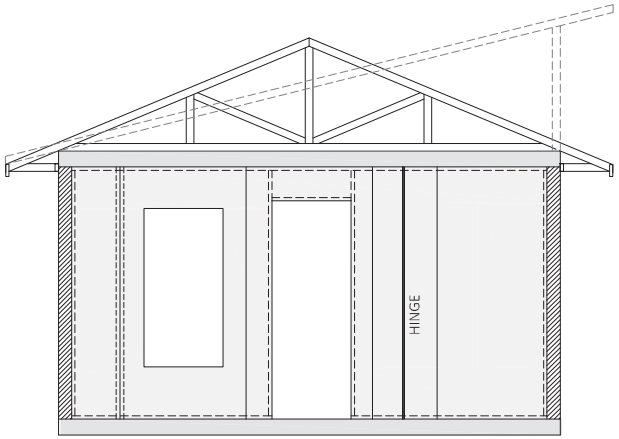
MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL



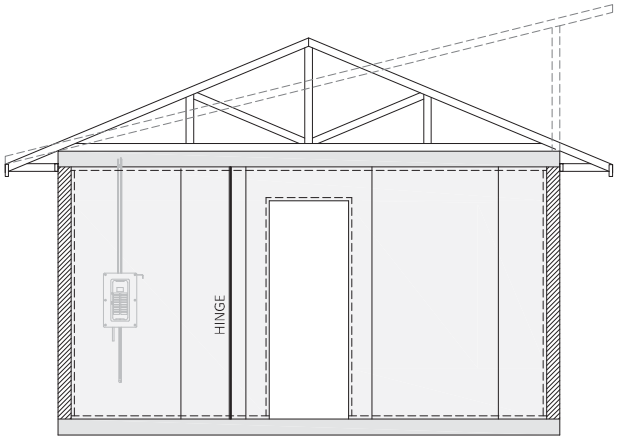
FRONT DOOR SIDE

HIGH-PITCHED ROOFS

USING PRE-ENGINEERED ROOF TRUSS, SUPPLIED & SITE INSTALLED BY OTHERS.

(REQ'D FOR SNOW LOADS EXCEEDING THE LOW PITCH ROOF LIMIT SPECIFIED ON SHEET S1)

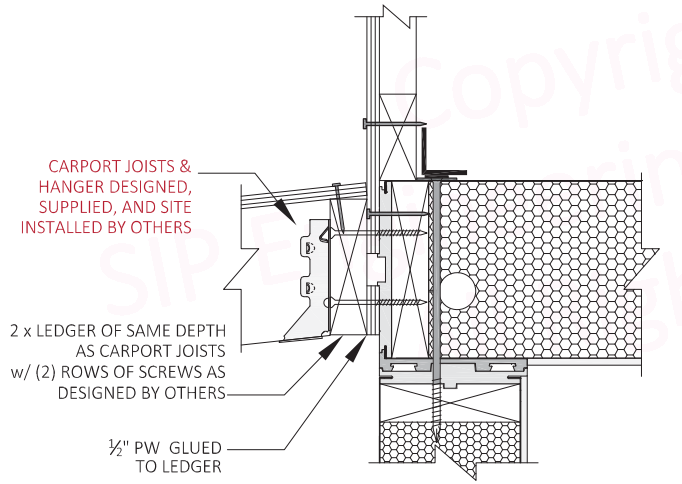
SEE S9 THRU S17



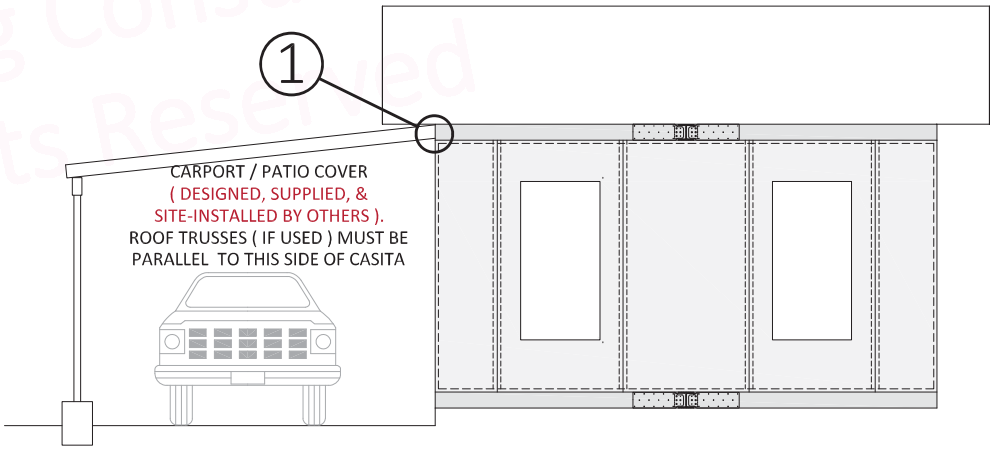
BACK SIDE

ALLOWABLE ACCESSORY OPTIONS

SEE ARCHITECTURAL DRAWINGS FOR ADD'L INFORMATION



1 CARPORT ROOF-TO-CASITA CONN.



LEFT SIDE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances not it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:

REGISTERED PROFESSIONAL ENGINEER MIKE J. NELSON C 62770 EXP. 6-30-26 CIVIL STATE OF CALIFORNIA 5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S1.4

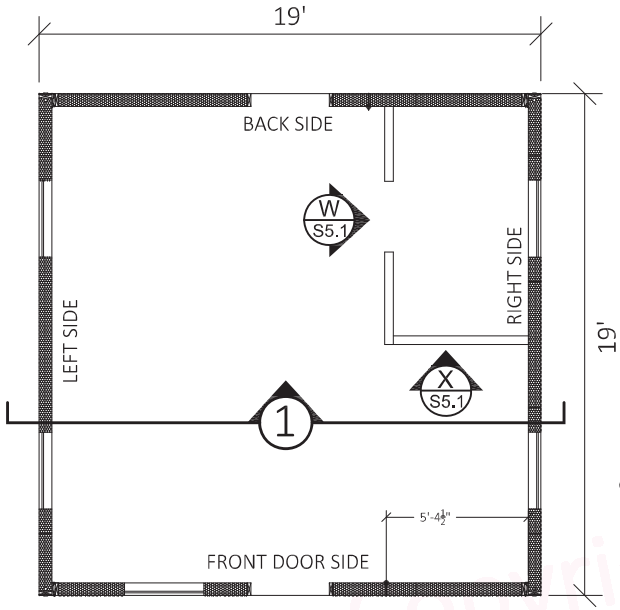
MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

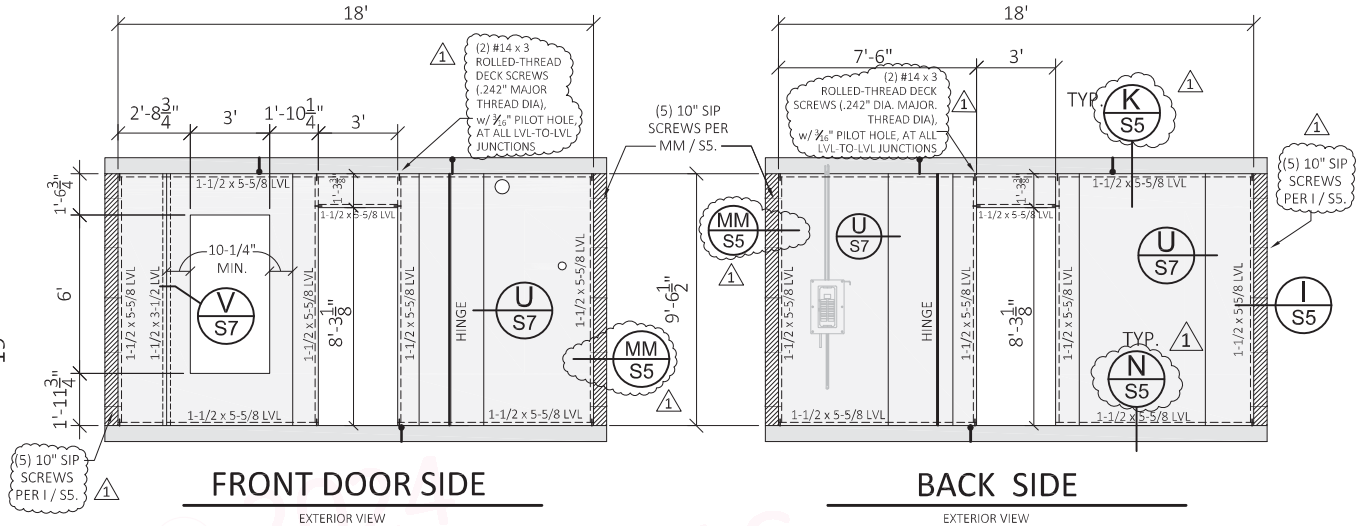
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

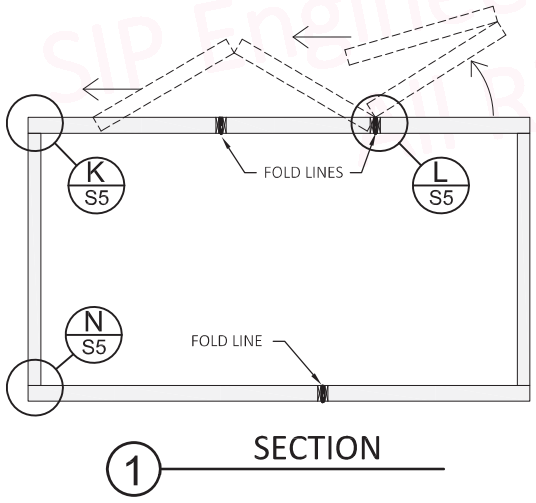


WALL PLAN

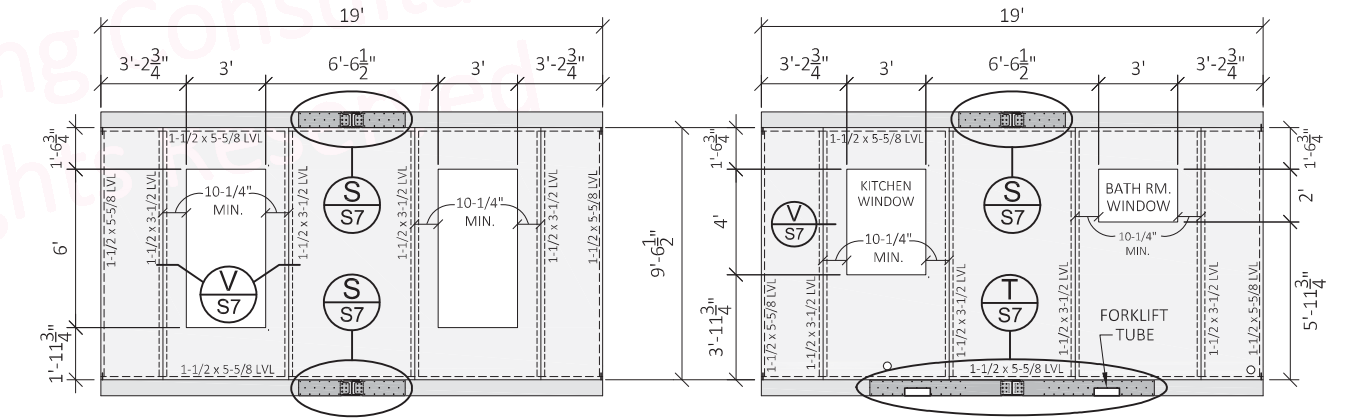


FRONT DOOR SIDE
EXTERIOR VIEW

BACK SIDE
EXTERIOR VIEW



1 SECTION



LEFT SIDE
EXTERIOR VIEW

RIGHT SIDE
EXTERIOR VIEW

NOTES:
1. EXCEPT FOR THE 19' OVERALL DIMENSIONS, ALL OTHER'S HAVE A ¼" +/- TOLERANCE.
2. ROUND HOLES SHOWN ARE APPROX. IN SIZE AND LOCATION.
3. LVL TO HAVE A MIN. FLEXURAL STRENGTH, Fb = 2,800 psi, AND MIN. MODULUS OF ELASTICITY, E = 2,000,000 PSI

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:
4-18-25	1	DETAIL REFERENCE FIX & NOTE 3 ADDED.

REGISTERED PROFESSIONAL ENGINEER — MIKE J. NELSON — C 62770 — EXP. 6-30-26 — CIVIL — STATE OF CALIFORNIA — 5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S2

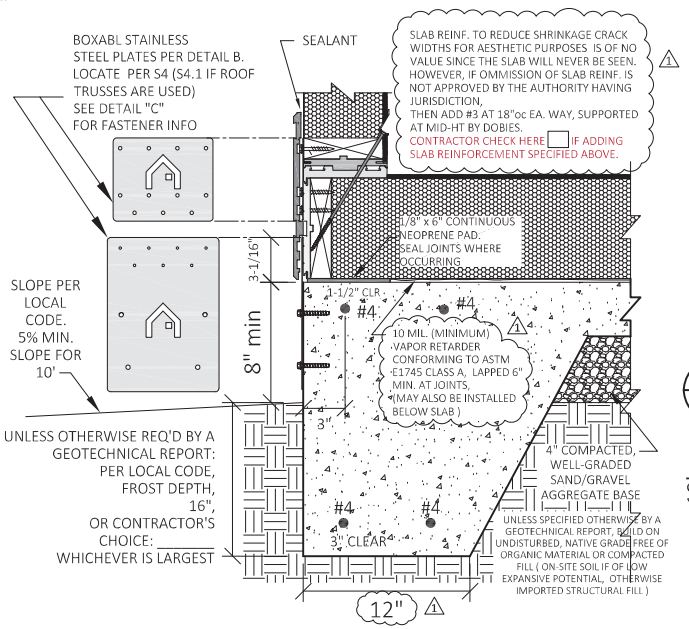
MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

CALIFORNIA

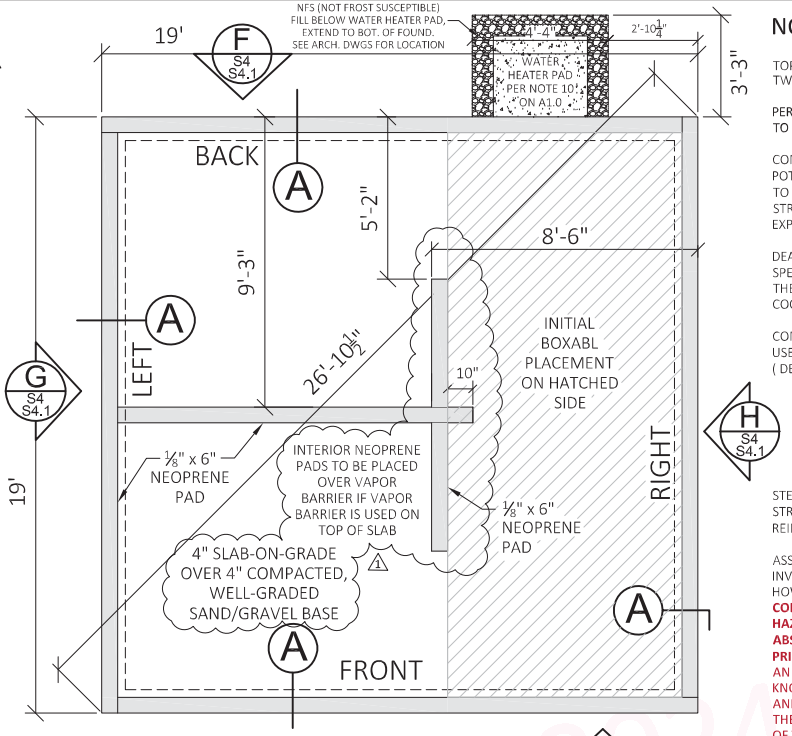
CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL



A PERIMETER FLOOR EDGE

SCALE: NONE



FOUNDATION PLAN

E S4 S4.1

LEVEL GROUND CONDITION ONLY

FOR OTHER FOUNDATION DESIGNS, TO ACCOMMODATE SLOPING GRADE, FLOOD CONDITIONS, ETC, CONTACT THE ENGINEER IN THE TITLE BLOCK BELOW

NOTES:

TOP SURFACE OF PERIMETER CONCRETE SHALL BE FLAT AND LEVEL TO WITHIN 1/8" BETWEEN ANY TWO POINTS AROUND THE PERIMETER.

PERIMETER & DIAGONAL DIMENSIONS HAVE NO MARGIN FOR ERROR FOR ANCHORAGE HARDWARE TO WORK AS INTENDED.

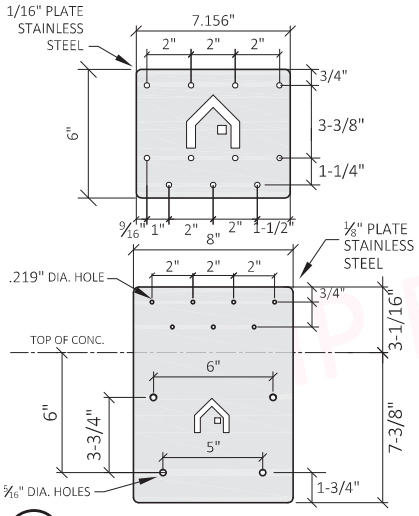
CONCRETE TO HAVE A MIN. 28 DAY COMPRESSIVE STRENGTH, f'c = 2,500 psi WHERE WEATHERING POTENTIAL IS NEGLIGIBLE. WHERE NOT NEGLIGIBLE, f'c TO INCREASE TO 3,000 PSI AND CONCRETE TO HAVE 5% TO 7% AIR ENTRAINMENT (BY VOLUME) - SPECIAL INSPECTION IS NOT REQ'D SINCE STRUCTURAL DESIGN IS STILL BASED ON 2,500 PSI. CONTRACTOR MUST HAVE EXPERIENCE AND EXPERTISE IN PROPER CURING METHODS WHEN POURING IN HOT AND COLD WEATHER.

DEALER, OWNER, INSTALLER, OR CONTRACTOR TO VERIFY w/ BUILDING DEPARTMENT IF ANY SPECIAL INSPECTIONS ARE REQUIRED BY THE CITY BEFORE START OF CONSTRUCTION, AND IF SO, THE OWNER TO HIRE A SPECIAL INSPECTOR ACCEPTABLE TO THE BUILDING DEPARTMENT AND COORDINATE AN INSPECTION SCHEDULE WITH THE CONTRACTOR.

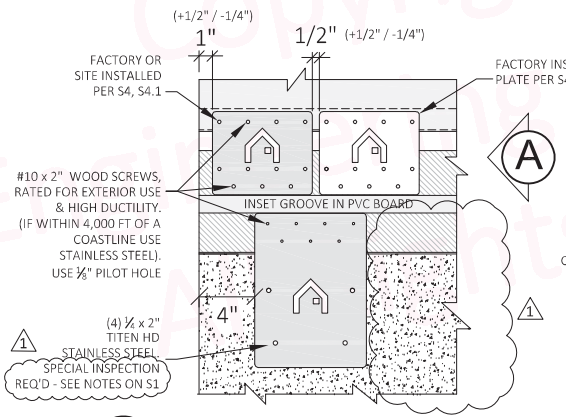
CONCRETE TO BE TYPE II, WITH MAXIMUM WATER/CEMENT RATIO = .5.
USE TYPE V CEMENT IF SOIL HAS HIGH SULFATE CONCENTRATION (DETERMINED BY OTHERS).
5.5 SACK MINIMUM PORTLAND CEMENT COMPLYING WITH ASTM C150.
AGGREGATES TO CONFORM TO ASTM C33
CALCIUM CHLORIDE NOT ALLOWED, HOWEVER, WATER REDUCING ADMIXTURES MAY BE USED PER ASTM C494 AND PER MNFR'S SPECIFICATIONS.
CONCRETE MIXING,DELIVERY & SLUMP TOLERANCE TO CONFORM TO ASTM C94.
FIELD MEASURED SLUMP SHALL COMPLY WITH THE CONCRETE MIX DESIGN.

STEEL REINFORCEMENT SHALL COMPLY WITH THE REQ'TS OF ASTM A615, WITH MIN. YIELD STRENGTH = 60 ksi (GRADE 60).
REINF. TO BE CONTINUOUS, w # 4 BENT CORNER BARS w/ 12" LEGS TIED TO MAIN REINF.

ASSUMED ALLOWABLE SOIL BEARING PRESSURE = 1,500 PSF TO AVOID A GEOTECHNICAL INVESTIGATION PER IRC SECTION R401.1.
HOWEVER, **THIS DESIGN IS BASED ON THE ASSUMPTION THAT THERE IS NO EXPANSIVE SOIL, COLLAPSIBLE SOIL, CORROSIVE SOIL, SOIL SUBJECT TO LIQUIFACTION OR SOIL IN A FLOOD HAZARD ZONE, ALL OF WHICH REQUIRE A SITE-SPECIFIC DESIGN. VERIFICATION OF THE ABSENCE OF THESE CONDITIONS IS THE RESPONSIBILITY OF THE DEALER, AND/OR OWNER PRIOR TO START OF CONSTRUCTION.**
AN INITIAL ASSESSMENT MAY COME IN THE FORM OF TALKING TO PEOPLE HAVING HISTORICAL KNOWLEDGE OF THE AREA, INCLUDING NEIGHBORS, REAL ESTATE AGENTS, LOCAL CONTRACTORS AND THE LOCAL BUILDING DEPT. IF IN DOUBT, GET A GEOTECHNICAL REPORT AND VERIFY THAT THE RECOMMENDATIONS ARE CONSISTENT WITH THE SPECIFICATIONS IN DETAIL "A". A REVIEW OF THE REPORT BY A STRUCTURAL ENGINEER IS RECOMMENDED TO DETERMINE IF ANY DESIGN MODIFICATIONS ARE REQ'D.
BOXABL AND THE ENGINEER ACCEPT NO RESPONSIBILITY OR LIABILITY FOR THE PERFORMANCE OF FOUNDATIONS ON SOIL THAT IS NOT ADEQUATELY PREPARED OR OTHERWISE IN COMPLIANCE WITH A GEOTECHNICAL REPORT IF ONE IS AVAILABLE.

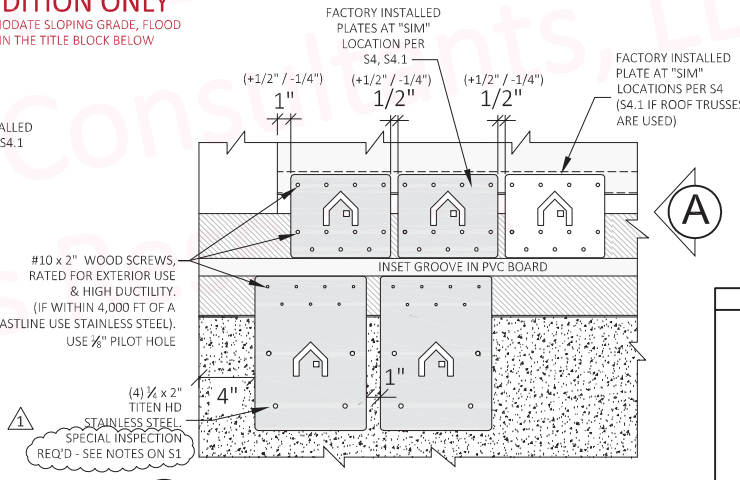


B



C HOLD-DOWNS AT LEFT & RIGHT WALL

SEE S4 & S4.1 FOR LOCATION REFERENCE



D HOLD-DOWNS AT FRONT & BACK WALL

SEE S4 & S4.1 FOR LOCATION REFERENCE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:
4-18-25	1	NOTE CHANGES

REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
Mike Nelson
5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S3

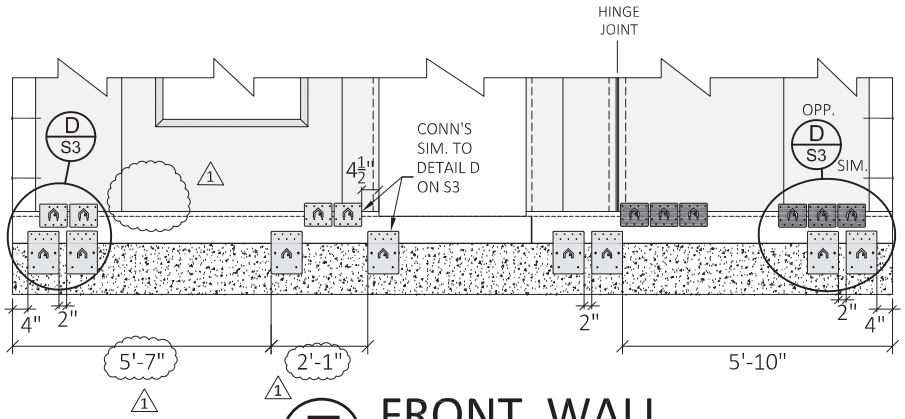
MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

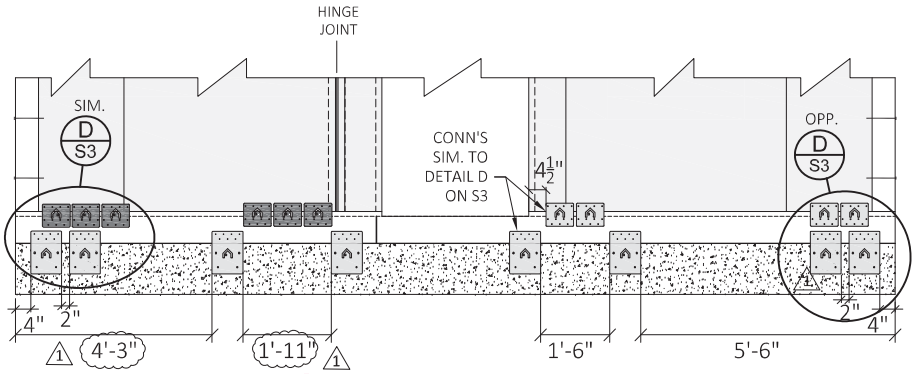
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL



E FRONT WALL



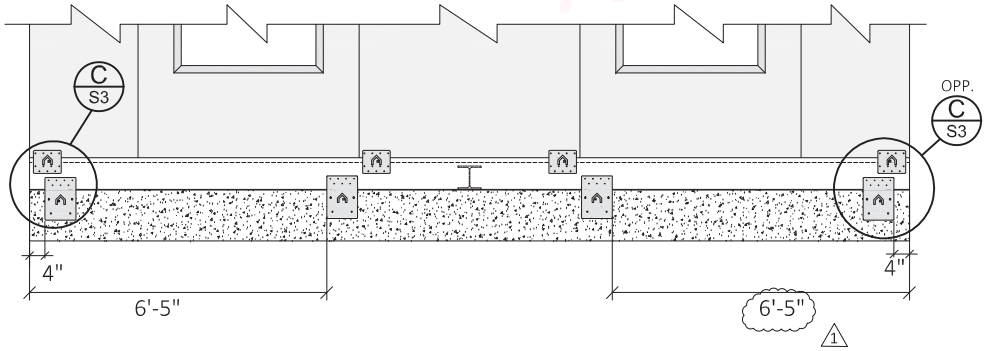
F BACK WALL

FACTORY INSTALLED BOXABL PLATES
(FIELD INSTALL IF ANY ARE MISSING)

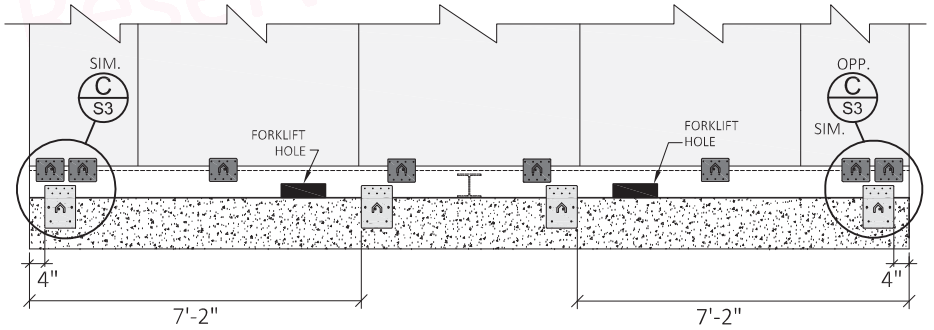
FIELD INSTALLED BOXABL PLATES

FIELD INSTALLED BOXABL PLATES

SEE S4.1 IF ROOF TRUSSES ARE USED



G LEFT WALL



H RIGHT WALL

KITCHEN SIDE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:
4-18-25	1	PL. LOCATION UPDATE

REGISTERED PROFESSIONAL ENGINEER MIKE J. NELSON C 62770 EXP. 6-30-26 CIVIL STATE OF CALIFORNIA 5-18-25

SIP ENGINEERING CONSULTANTS, LLC

14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007

PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S4

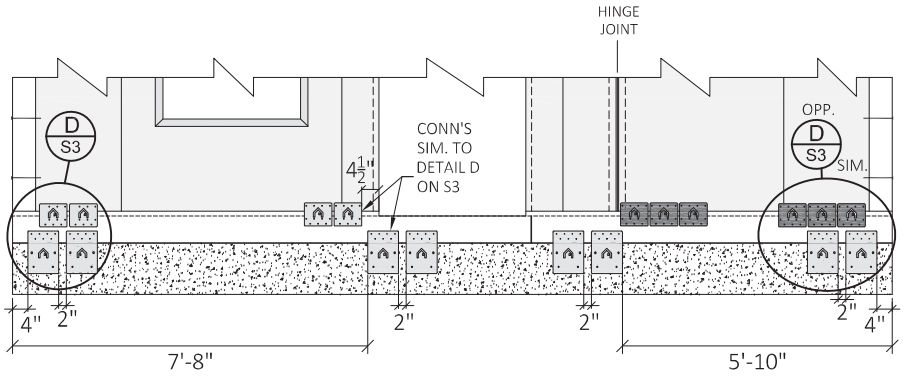
MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

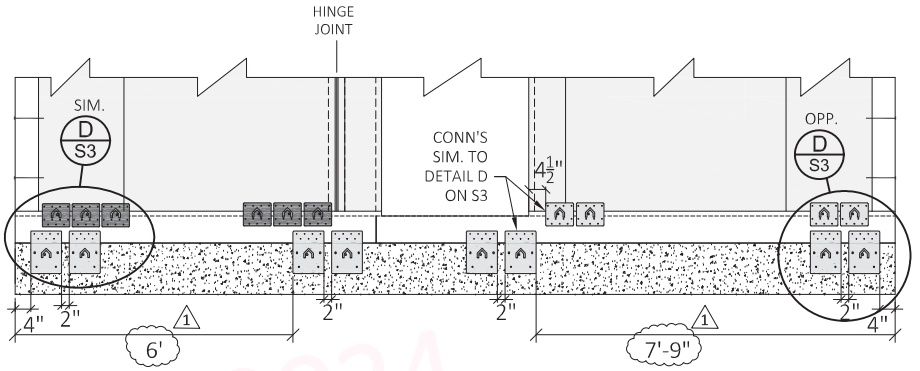
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL



E FRONT WALL



F BACK WALL

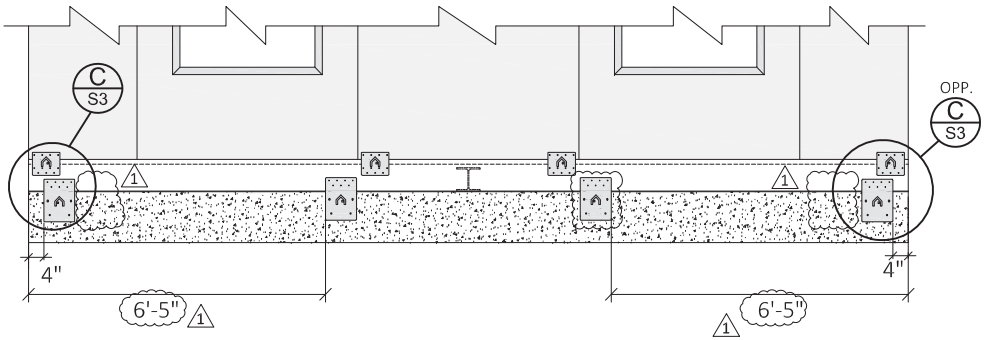
PLATE LAYOUT IF ROOF TRUSSES ARE USED

FACTORY INSTALLED BOXABL PLATES
(FIELD INSTALL IF ANY ARE MISSING)

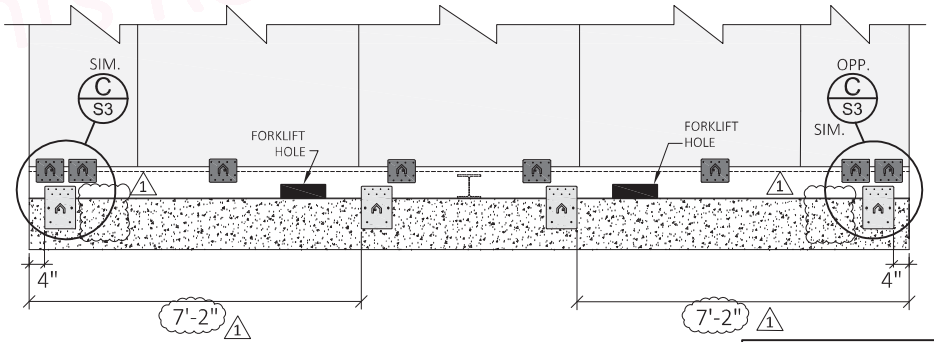
FIELD INSTALLED BOXABL PLATES

FIELD INSTALLED BOXABL PLATES

TRUSSES & PARAPETS SUPPLIED,
AND SITE-INSTALLED BY OTHERS



G LEFT WALL



H RIGHT WALL

KITCHEN SIDE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:
4-18-25	1	PL. LOCATION UPDATE

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S4.1

MODEL: 2 DOOR CASITA

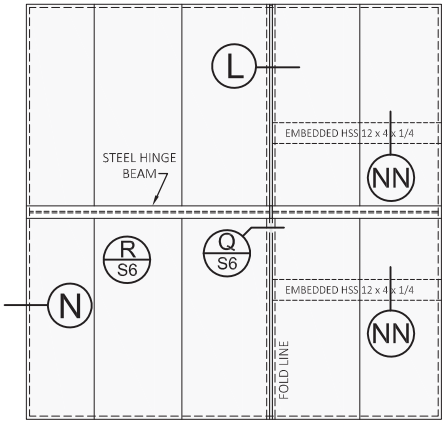
MODEL #: BXB-000012

CALIFORNIA

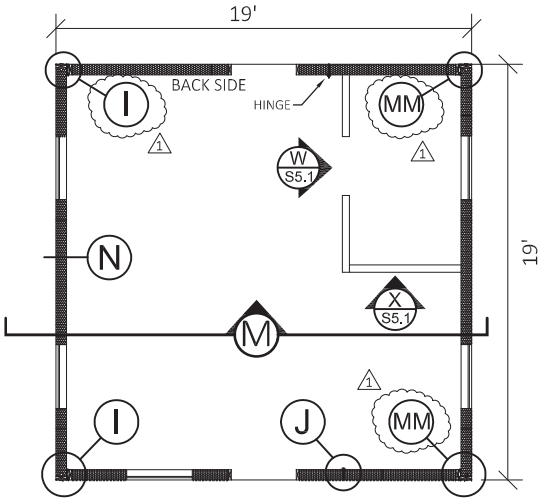
CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

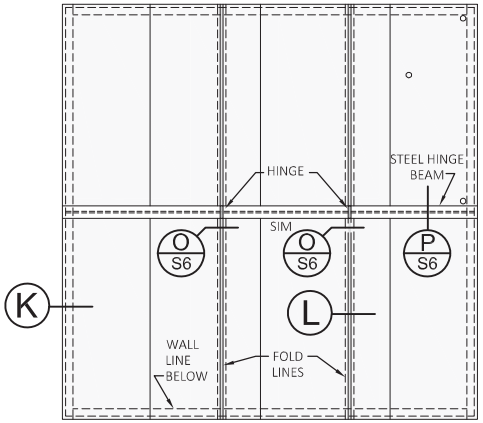
FLOOR PANEL LAYOUT

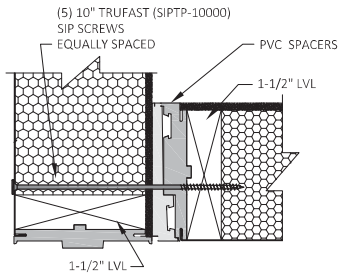


WALL PLAN

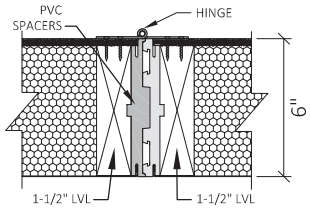


ROOF PANEL LAYOUT

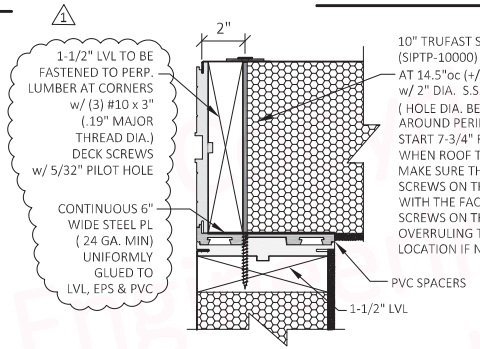




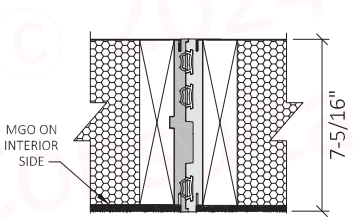
I CORNER CONN. SWING WALLS
SCALE: NONE



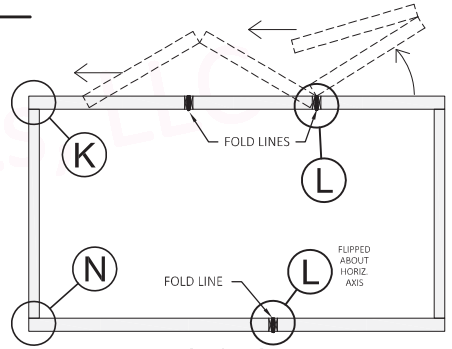
J WALL HINGE CONN.
SCALE: NONE



K ROOF / WALL CONN.
SCALE: NONE



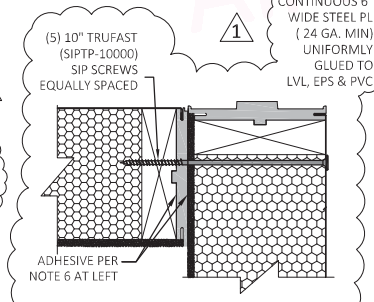
L ROOF / FLOOR JOINT AT FOLD LINE
SCALE: NONE

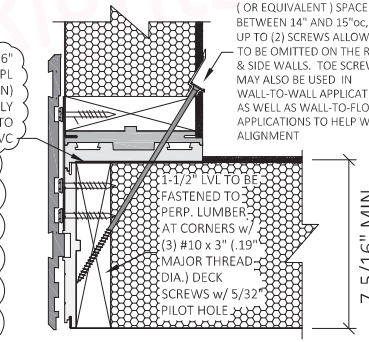


M SECTION

NOTES:

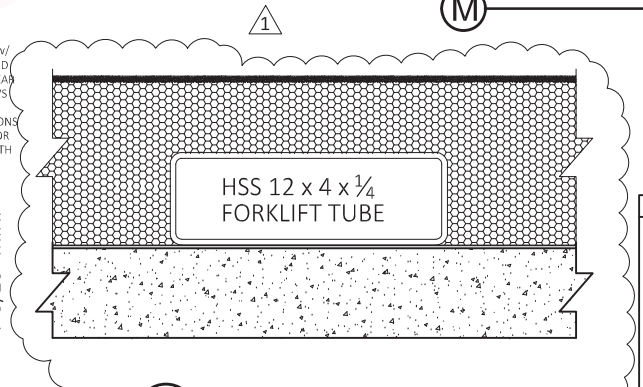
1. EMBEDED LUMBER TO BE LAMINATED VENEER LUMBER (LVL), GRADE 2.0E, Fb = 2,800 psf MIN.
2. 24 GA. STEEL OUTER SKIN: ASTM A1003 STRUCTURAL GRADE 33 (GRADE 230) TYPE H.
3. HSS TUBE STEEL TO COMPLY w/ ASTN A 500 , GRADE B OR ASTM A 1085.
4. EPS CORE: 1 pcf DENSITY
5. INNER SKIN: ¼" MGO (MADE w/o SOREL CEMENT)
6. THE FOLLOWING ADJOINING SURFACES TO BE COATED w/ ADHESIVE: PVC-TO-MGO, PVC-TO-WOOD, EPS-T0-PVC WOOD-TO-MGO, WOOD-TO-METAL SKIN, WOOD-TO-PVC, WOOD-TO-EPS, EPS-TO-METAL SKIN, EPS-TO-MGO. ADHESIVE TO COMPLY w/ TYPE II, CLASS 2 PERFORMANCE REQ'TS SET FORTH IN ICC-ES ACCEPTANCE CRITERIA FOR SANDWICH PANELS (AC05).
7. ALL STRUCTURAL INSULATED PANELS TO BE TESTED ACCORDING TO THE APPROVED JUNE 2019 (EDITORIALLY REVISED DECEMBER 2020) VERSION OF ACCEPTANCE CRITERIA ICC-ES AC04 INCLUDING, BUT NOT LIMITED TO: ASTM E72 ASTM E136-04 ASTM E331





MM FIXED WALL CORNER CONN.
SCALE: NONE

N FLOOR / WALL CONN.
SCALE: NONE



NN FLOOR / WALL CONN.
SCALE: NONE

EXPIRES 6-30-26

STAMP OF APPROVAL
Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823
These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.
Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

DATE:	REV:	DESCRIPTION:
4-18-25	1	MISC. UPDATES

* CONFIDENTIAL

REGISTERED PROFESSIONAL ENGINEER MIKE J. NELSON C 62770 EXP. 6-30-26 CIVIL STATE OF CALIFORNIA
5-18-25

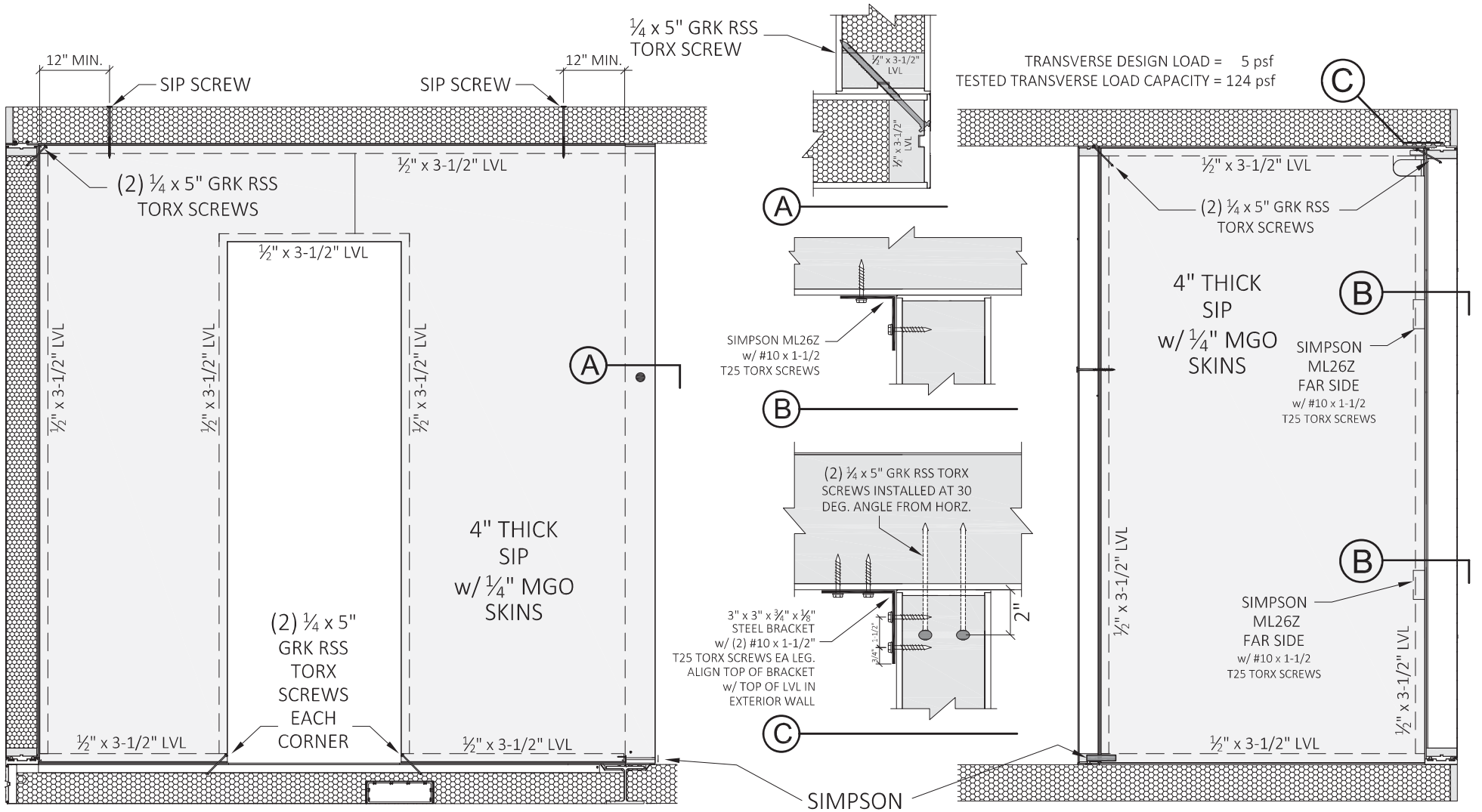
SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S5

MODEL: 2 DOOR CASITA
MODEL #: BXB-000012
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL



W PARTITION WALL

SCALE: NONE

X PARTITION WALL

SCALE: NONE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:
12-13-24	3	NEW DETAILS

* CONFIDENTIAL

AS INSTRUMENTS OF SERVICE, THESE DRAWINGS SHALL REMAIN THE PROPERTY OF SIP ENGINEERING CONSULTANTS, LLC WHO SHALL RETAIN ALL COMMON LAW, STATUTORY & OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS (ONLY FOR INFO. WITHIN THE MAIN DRAWING AREA). REPRODUCTION IS PROHIBITED WITHOUT THE EXPRESSED, WRITTEN PERMISSION OF SIP ENGINEERING CONSULTANTS, LLC.

REGISTERED PROFESSIONAL ENGINEER — MIKE J. NELSON — C 62770 — EXP. 6-30-26 — CIVIL — STATE OF CALIFORNIA

Mike Nelson 5-18-25

SIP ENGINEERING CONSULTANTS, LLC

14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007

PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S5.1

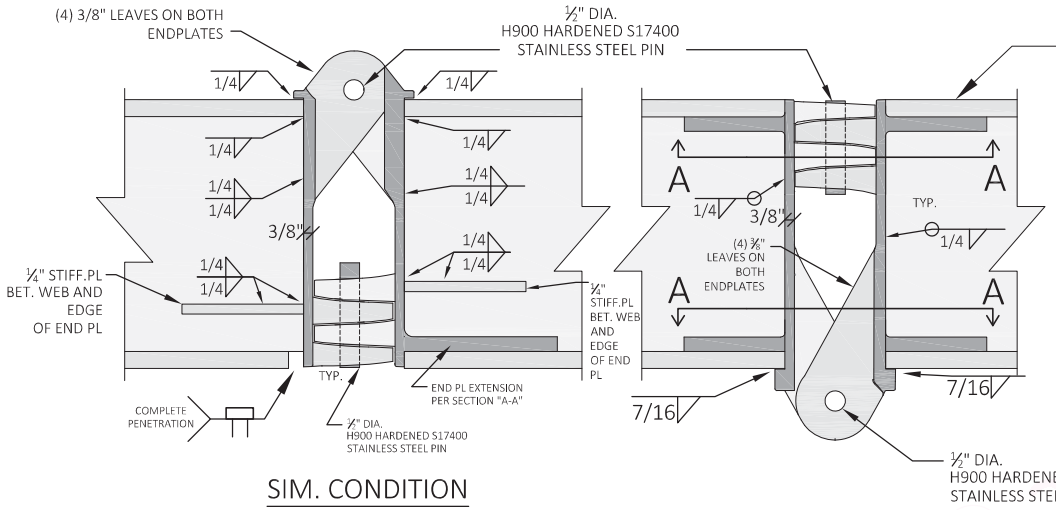
MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

CALIFORNIA

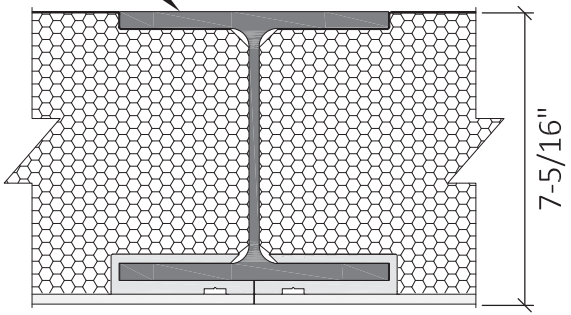
CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL



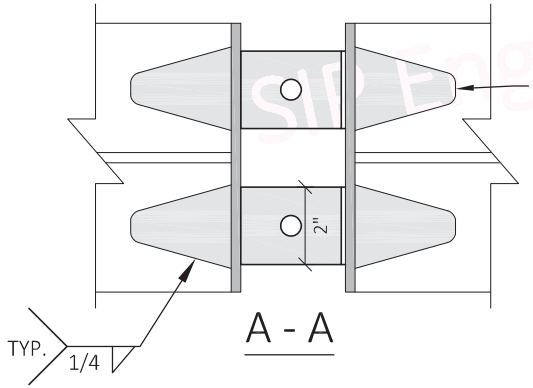
SIM. CONDITION

O ROOF BEAM HINGE CAST MONOLITHICALLY w/ END PLATES



P ROOF HINGE BEAM

SCALE: NONE



STEEL ELECTRODE SHALL CONFORM TO AWS 5.1, E70XX.

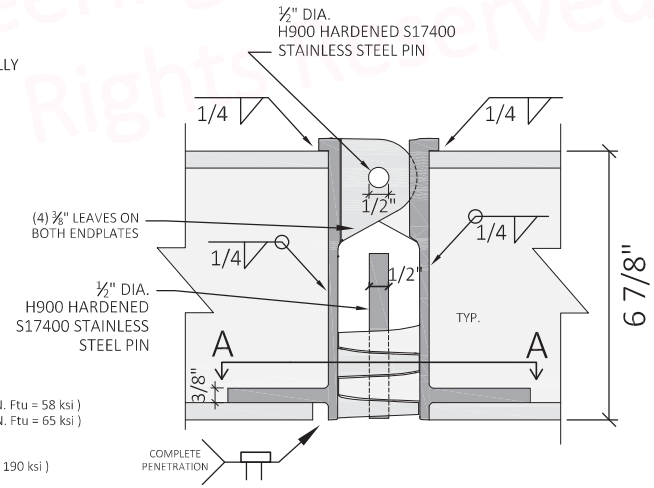
ALL WELDED CONNECTION SHALL BE WELDED ACCORDING TO THE "STRUCTURAL WELDING CODE - STEEL", AWS-D1.1, LATEST EDITION. WELDNG SHALL BE PERFORMED BY WELDERS CERTIFIED FOR THE WELDS TO BE MADE.

MATERIALS TO BE SUPPLIED BY CERTIFIED FABRICATORS. SPECIAL INSPECTION OF WELDS IS REQUIRED

STEEL MATERIAL PROPERTIES:

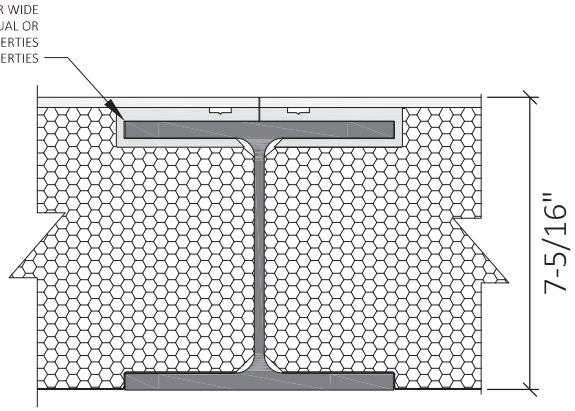
HINGE BEAM: ASTM A36 (MIN. Fy = 36 ksi, MIN. Ftu = 58 ksi)
HINGE : ASTM A572 GR. 50 (MIN. Fy = 50 ksi, MIN. Ftu = 65 ksi)

HINGE BEAM PINS: H900 HARDENED S17400 S.S.
(MIN. Fy = 170 ksi, MIN. Ftu = 190 ksi)



Q FLOOR HINGE CAST MONOLITHICALLY

SCALE: NONE



R FLOOR HINGE BEAM

SCALE: NONE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:

REGISTERED PROFESSIONAL ENGINEER MIKE J. NELSON C 62770 EXP. 6-30-26 CIVIL STATE OF CALIFORNIA
5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S6

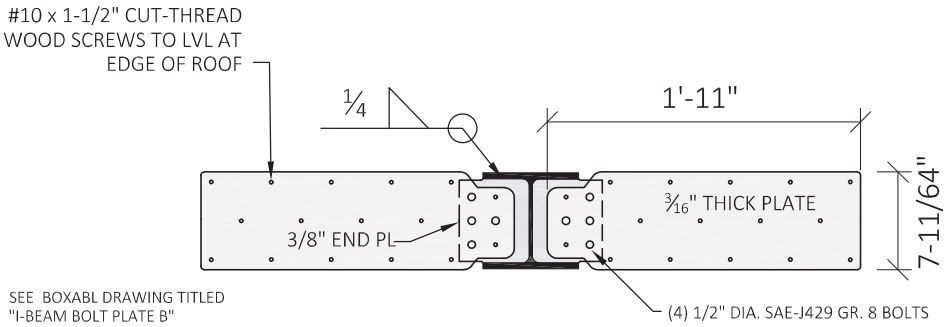
MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

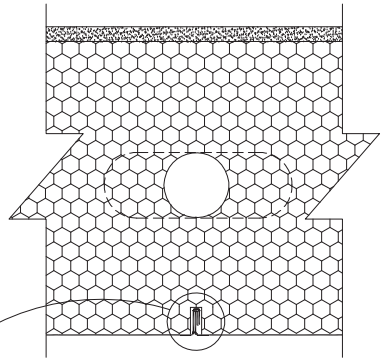
BOXABL

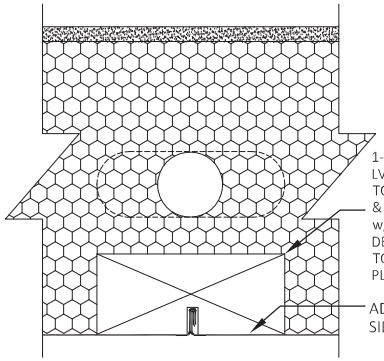


SEE BOXABL DRAWING TITLED
"I-BEAM BOLT PLATE B"
PART NO. P-STP-IBP-0005
FOR HOLE LOCATIION INFO.
PART NO. P-STP-IBP-0005

S HINGE BEAM END PLATE

SCALE: NONE



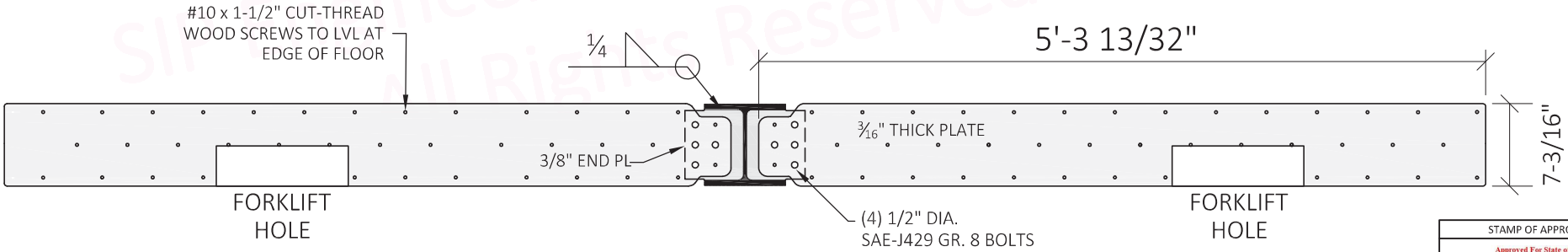


U STEEL SKIN SEAM NOT NEAR WINDOWS

SCALE: NONE

V STEEL SKIN SEAM NEAR SIDES OF WINDOWS

SCALE: NONE



SEE BOXABL DRAWING TITLED
"FORK TUBE PLATE A 1.2"
PART NO. P-STP-FTP-0003
FOR HOLE LOCATIION INFO.

T FLOOR HINGE BEAM END PLATES AT RIGHT SIDE

SCALE: NONE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mahsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

DATE:	REV:	DESCRIPTION:

* CONFIDENTIAL

AS INSTRUMENTS OF SERVICE, THESE DRAWINGS SHALL REMAIN THE PROPERTY OF SIP ENGINEERING CONSULTANTS, LLC WHO SHALL RETAIN ALL COMMON LAW, STATUTORY & OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS (ONLY FOR INFO. WITHIN THE MAIN DRAWING AREA). REPRODUCTION IS PROHIBITED WITHOUT THE EXPRESSED, WRITTEN PERMISSION OF SIP ENGINEERING CONSULTANTS, LLC.

EXPIRES 6-30-26

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S7

MODEL: 2 DOOR CASITA

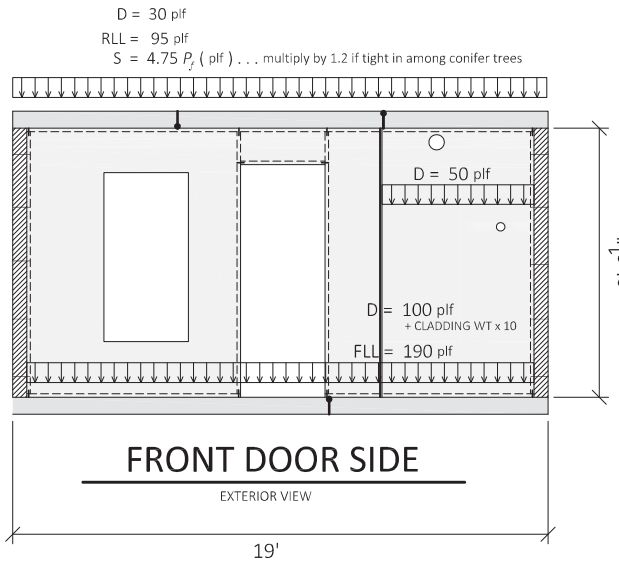
MODEL #: BXB-000012

CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

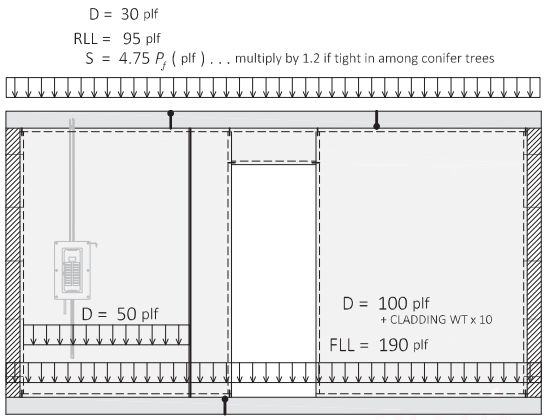
BOXABL

GRAVITY LOADING FOR CASITAS w/ EPDM ROOFS PER S18



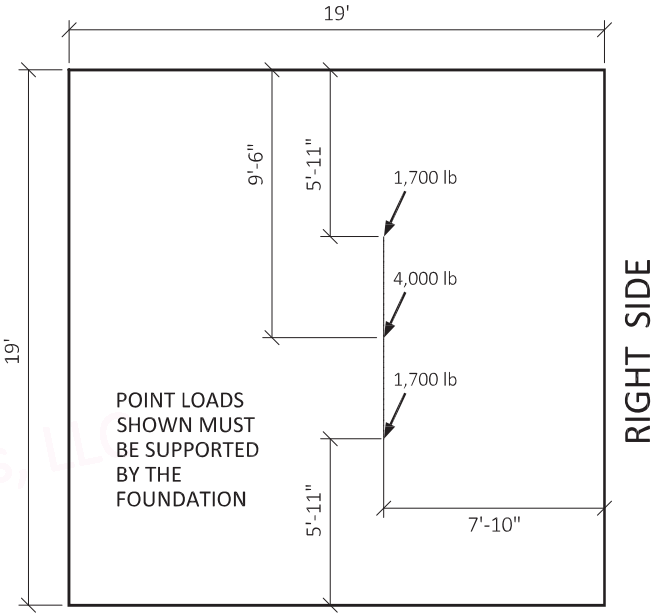
FRONT DOOR SIDE

EXTERIOR VIEW

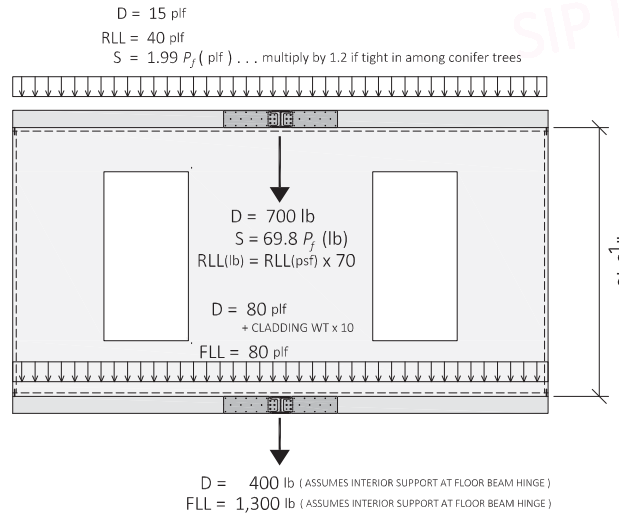


BACK SIDE

EXTERIOR VIEW

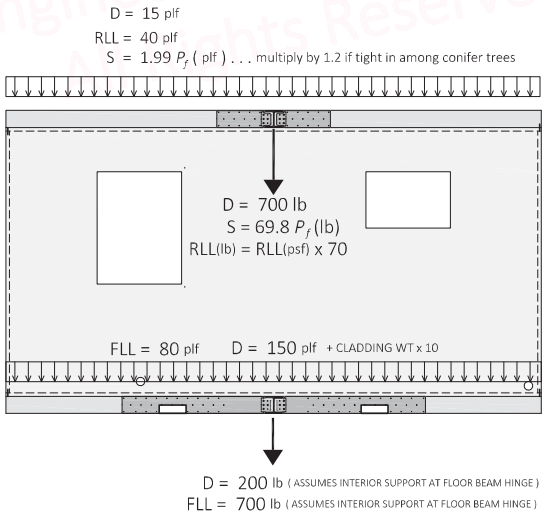


PLAN VIEW



LEFT SIDE

EXTERIOR VIEW



RIGHT SIDE

EXTERIOR VIEW

ASSUMED WALL CLADDING WEIGHTS WHEN USED:

STUCCO :	5.0 psf
HARDI PLANK:	3.8 psf
HARDI PANEL:	3.5 psf

ROOF LOADING ASSUMES NO SOLAR PANELS ARE USED

LOADING PROVIDED AS A COURTESY AND SHOULD BE VERIFIED BY ANYONE DESIGNING ALTERNATIVE FOUNDATIONS. PRE-ENGINEERED FOUNDATION ALTERNATIVES AVAILABLE FROM THE ENGINEER IN THE TITLE BLOCK

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:
12-13-24	3	LOAD UPDATE

* CONFIDENTIAL

AS INSTRUMENTS OF SERVICE, THESE DRAWINGS SHALL REMAIN THE PROPERTY OF SIP ENGINEERING CONSULTANTS, LLC WHO SHALL RETAIN ALL COMMON LAW, STATUTORY & OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS (ONLY FOR INFO. WITHIN THE MAIN DRAWING AREA). REPRODUCTION IS PROHIBITED WITHOUT THE EXPRESSED, WRITTEN PERMISSION OF SIP ENGINEERING CONSULTANTS, LLC.

REGISTERED PROFESSIONAL ENGINEER — MIKE J. NELSON — C 62770 — EXP. 6-30-26 — CIVIL — STATE OF CALIFORNIA — 5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S8

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

GRAVITY LOADING FOR HIGH-SLOPE CASITAS (w/ ROOF TRUSSES)

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

MAXIMUM ALLOWED "*PROJECTED*" TRUSS ROOF SYSTEM WEIGHTS (INCL. TRUSS WT, SHEATHING, INSULATION, MISC., BUT NOT SOLAR PANELS):

9:12 GABLE ROOFS:

CONCRETE TILE:	24.7 psf
CLAY TILE:	19.2 psf
ASPHALT SHINGLE:	21.1 psf
METAL ROOF:	13.2 psf
SOLAR PANELS:	6.2 psf 1

6:12 GABLE ROOFS:

CONCRETE TILE:	21.6 psf
CLAY TILE:	16.7 psf
ASPHALT SHINGLE:	18.4 psf
METAL ROOF:	11.3 psf
SOLAR PANELS:	5.5 psf 1

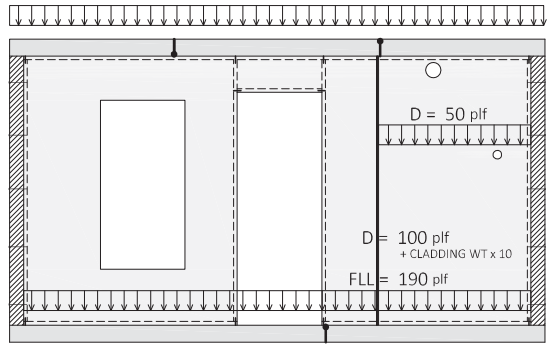
3:12 GABLE & HIP ROOFS:

CONCRETE TILE:	20.4 psf
CLAY TILE:	15.9 psf
ASPHALT SHINGLE:	18.4 psf
METAL ROOF:	10.9 psf
SOLAR PANELS:	5.2 psf 1

3:12 MONOSLOPE ROOFS:

CONCRETE TILE:	20.8 psf
CLAY TILE:	16.3 psf
ASPHALT SHINGLE:	17.9 psf
METAL ROOF:	11.3 psf
SOLAR PANELS:	5.2 psf 1

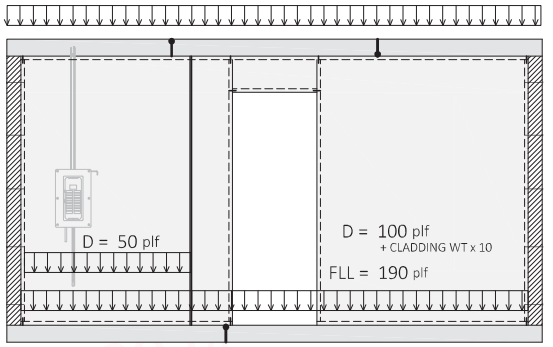
D = [30 + Projected Roof Truss System wt (11')] plf (trusses perp. to wall)
D = [30 + Projected Roof Truss System wt (3.5')] plf (trusses perp. to wall)
RLL = 20 (11') = 220 plf
S = 11 P_f (pf) . . . multiply by 1.2 if tight in among conifer trees



FRONT DOOR SIDE

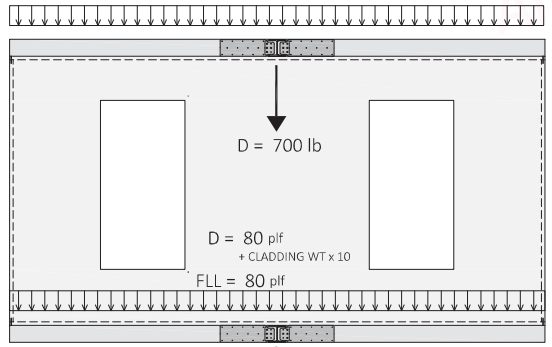
19'

D = [30 + Projected Roof Truss System wt (11')] plf (trusses perp. to wall)
D = [30 + Projected Roof Truss System wt (3.5')] plf (trusses perp. to wall)
RLL = 20 (11') = 220 plf
S = 11 P_f (pf) . . . multiply by 1.2 if tight in among conifer trees



BACK SIDE

D = [15 + Projected Roof Truss System wt (11')] plf (trusses perp. to wall)
D = [15 + Projected Roof Truss System wt (3.5')] plf (trusses perp. to wall)
RLL = 20 (11') = 220 plf
S = 11 P_f (pf) . . . multiply by 1.2 if tight in among conifer trees

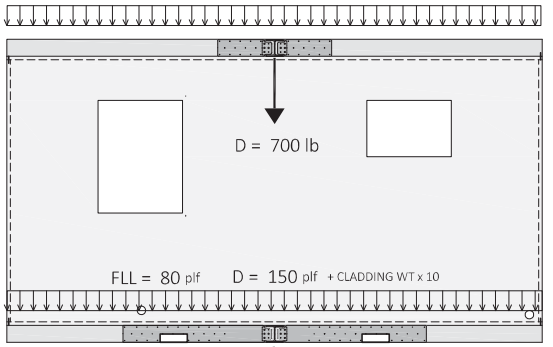


D = 400 lb (ASSUMES INTERIOR SUPPORT AT FLOOR BEAM HINGE)
FLL = 1,300 lb (ASSUMES INTERIOR SUPPORT AT FLOOR BEAM HINGE)

LEFT SIDE

EXTERIOR VIEW

D = [15 + Projected Roof Truss System wt (11')] plf (trusses perp. to wall)
D = [15 + Projected Roof Truss System wt (3.5')] plf (trusses perp. to wall)
RLL = 20 (11') = 220 plf
S = 11 P_f (pf) . . . multiply by 1.2 if tight in among conifer trees



D = 200 lb (ASSUMES INTERIOR SUPPORT AT FLOOR BEAM HINGE)
FLL = 700 lb (ASSUMES INTERIOR SUPPORT AT FLOOR BEAM HINGE)

RIGHT SIDE

SEE PLAN VIEW ON S8 FOR INTERIOR FOUNDATION LOADING

ASSUMED WALL CLADDING WEIGHTS WHEN USED:

STUCCO :	5.0 psf
HARDI PLANK:	3.8 psf
HARDI PANEL:	3.5 psf

ROOF LOADING ASSUMES NO SOLAR PANELS ARE USED

LOADING PROVIDED AS A COURTESY AND SHOULD BE VERIFIED BY ANYONE DESIGNING ALTERNATIVE FOUNDATIONS. PRE-ENGINEERED FOUNDATION ALTERNATIVES AVAILABLE FROM THE ENGINEER IN THE TITLE BLOCK

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:
4-18-25	1	SOLAR PANEL WT CHANGE

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
5-18-25

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	11/18/2024
SHEET:	S8.1

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

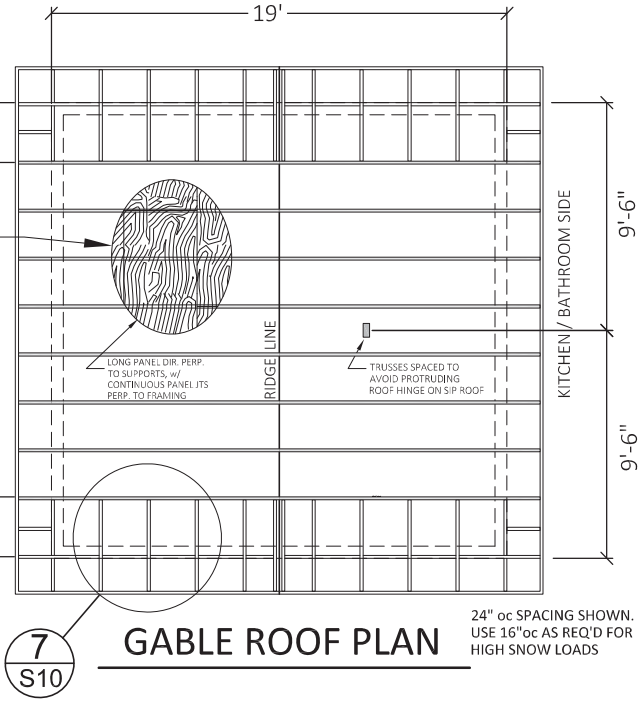
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

3:12 GABLE

TRUSSES MAY BE ROTATED 90 deg.



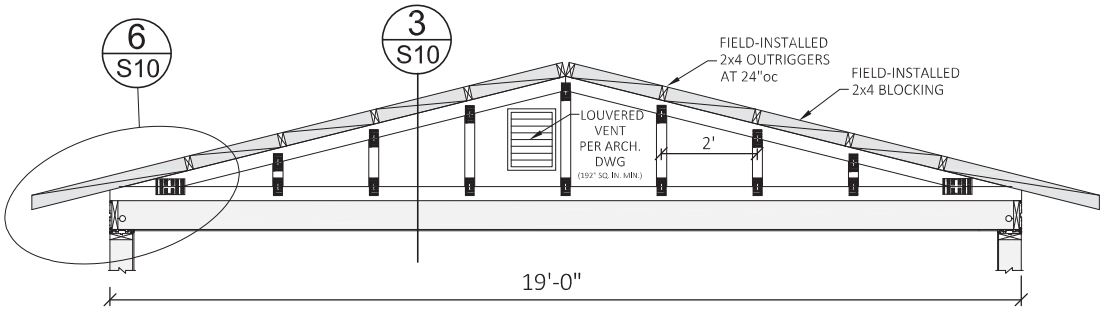
7 S10

GABLE ROOF PLAN

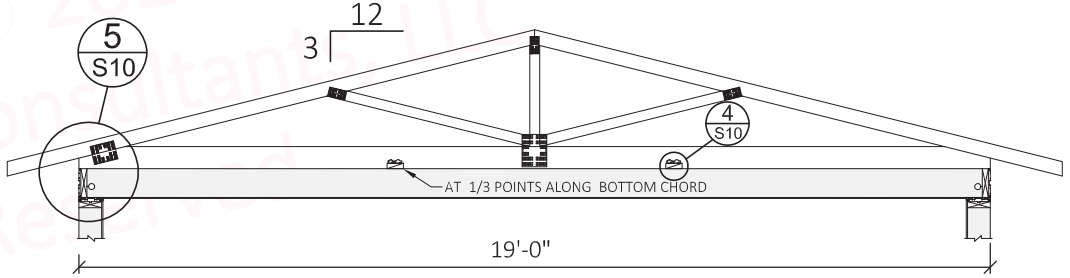
24" oc SPACING SHOWN.
USE 16"oc AS REQ'D FOR
HIGH SNOW LOADS

DESIGN CRITERIA

PER LOCAL CONDITIONS
BUT NEED NOT EXCEED MAXIMUM DEAD LOAD, WIND SPEED/EXPOSURE , AND GROUND SNOW LOAD LIMITS FOUND ON SHEETS S1, S1.1



1 PRE-ENGINEERED WOOD END TRUSS



2 PRE-ENGINEERED WOOD TRUSS

ROOF TRUSSES DESIGNED,
SUPPLIED, &
SITE-INSTALLED BY OTHERS

NOTES:

1) ASSUME VERTICAL TRUSS SUPPORT ONLY AT THE WALLS.

2) ASSUME BOTTOM CHORD OF EACH TRUSS WILL BE RESTRAINED AGAINST LATERAL MOVEMENT IN BOTH HORIZONTAL DIRECTIONS BY THE A34 CLIPS INDATED ON THE TRUSS PROFILES. DESIGN EACH TRUSS TO TRANSMIT LATERAL WIND FROM THE TOP CHORD TO THE BOTTOM CHORD. TRUSS WEB COMPRESSION MEMBERS TO BE DESIGNED TO AVOID THE NEED FOR LATERAL BRACING AGAINST BUCKLING.

3) INSTALL SIMPSON STRONG-TIE HARDWARE PER SIMPSON SPECIFICATIONS, U.N.O.

4) STABILITY DURING ERECTION TO BE DESIGNED & SUPPLIED BY OTHERS.

5) TRUSSES TO BE FABRICATED BY A CERTIFIED MEMBER OF THE TRUSS PLATE INSTITUTE AND SHALL COMPLY WITH THEIR STANDARDS.

6) CONNECTION PLATES SHALL BE IBC/ICBO APPROVED.

7) ALL TRUSSES MEMBERS SHALL HAVE LUMBER GRADE STAMPS.

8) THE TRUSS DESIGN AND ERECTION DRAWINGS SHALL BE MADE BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE IN QUESTION.

9) ERECTION PLANS SHALL SHOW THE TRUSS SPACING, TRUSS MARK (CALCULATION) NUMBERS, CONCENTRATED LOADS, & PERMANENT BRACING/BLOCKING AS REQUIRED BY THE TRUSS DESIGN.

10) SHOP DRAWINGS SHALL INCLUDE DIMENSIONS, CONFIGURATIONS, NOMINAL LUMBER SIZE AND GRADE, SPECIFICATIONS FOR CONNECTOR PLATES, THEIR SIZE AND LOCATIONS.

11) PROVIDE TEMPORARY ERECTION BRACING PER BCSI-B1 SUMMARY SHEET GUIDE FOR HANDLING, INSTALLING & BRACING OF METAL PLATED CONNECTED TRUSSES.

EXPIRES 6-30-26

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

DATE:	REV:	DESCRIPTION:

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
12-13-24

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S9

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

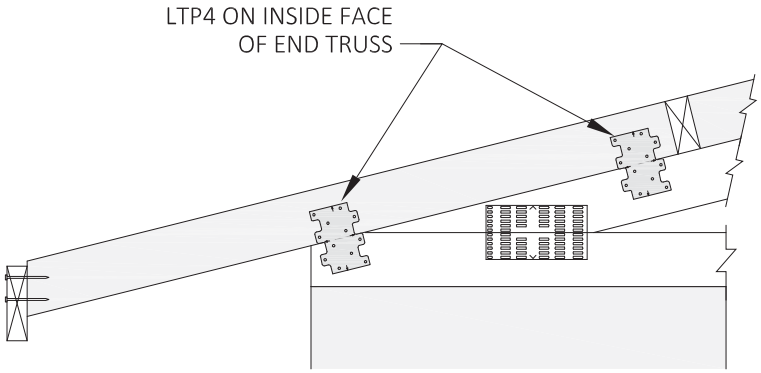
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

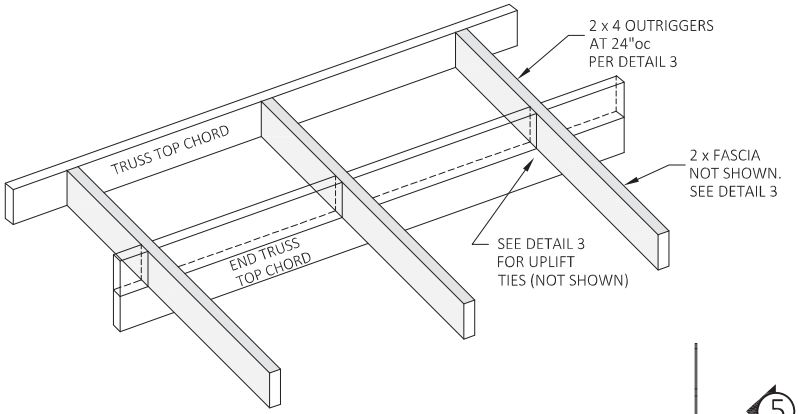
BOXABL

3:12 GABLE

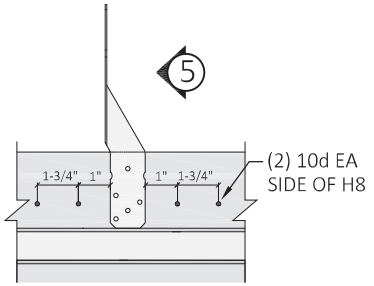
ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS



6 BLOCKING OVERHANG AT END TRUSS

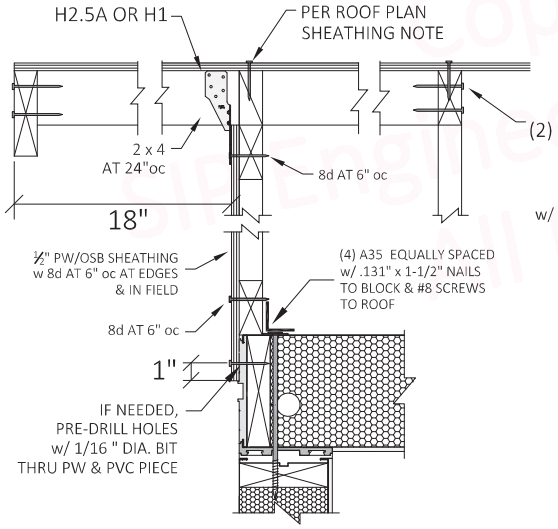


7 RAKE AT ENDWALLS

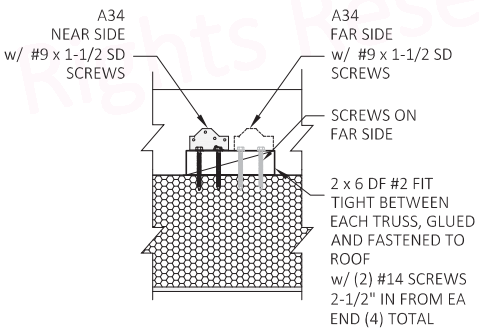


8

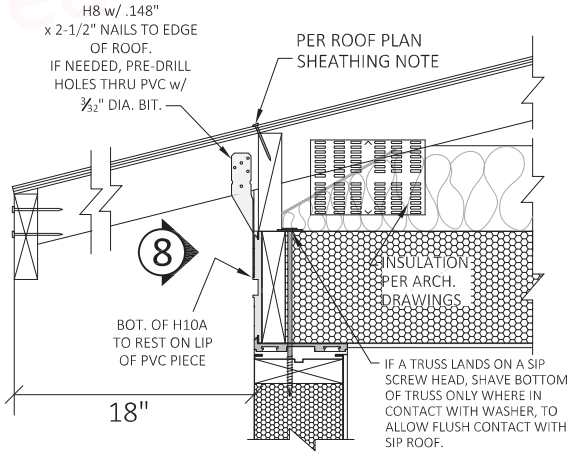
IF WITHIN 4,000 FT OF A COASTLINE
USE STAINLESS STEEL VERSIONS OF
HARDWARE, NAILS AND SCREWS SPECIFIED



3 GABLE END TRUSS TO ROOF EDGE



4 TRUSS BOT. CHORD BRACING AGAINST UPLIFT BUCKLING



5 TRUSS-TO-SIP ROOF AT EAVE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
12-13-24

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S10

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

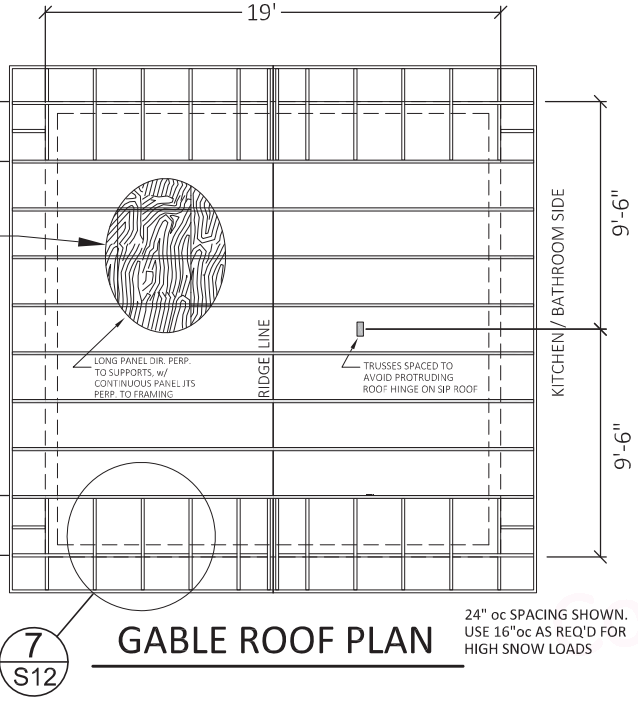
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

6:12 GABLE

TRUSSES MAY BE ROTATED 90 deg.

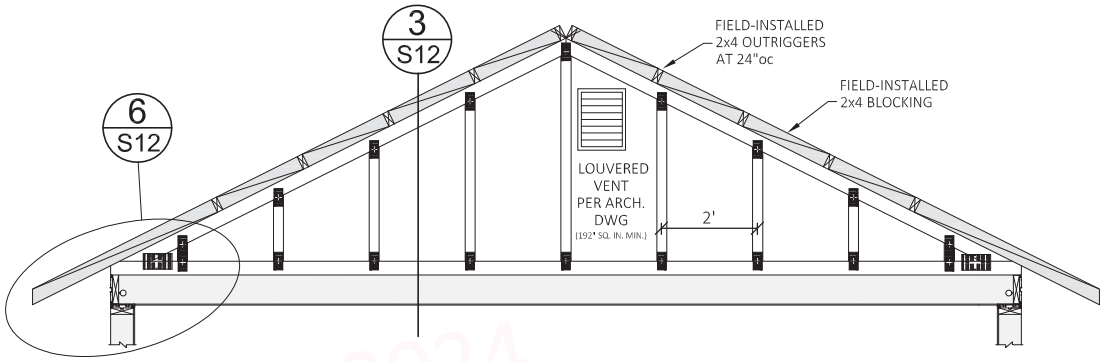


7 S12 GABLE ROOF PLAN

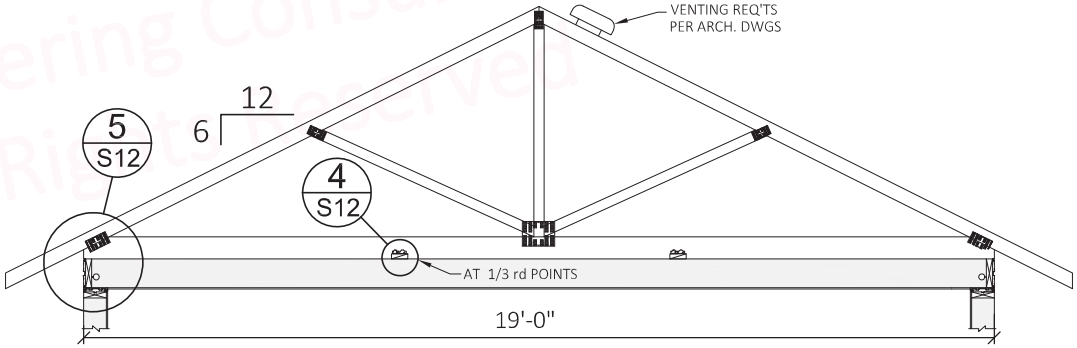
24" oc SPACING SHOWN.
USE 16"oc AS REQ'D FOR
HIGH SNOW LOADS

DESIGN CRITERIA

PER LOCAL CONDITIONS
BUT NEED NOT EXCEED MAXIMUM DEAD LOAD, WIND SPEED/EXPOSURE , AND GROUND SNOW LOAD LIMITS FOUND ON SHEETS S1, S1.1



1 PRE-ENGINEERED WOOD END TRUSS



2 PRE-ENGINEERED WOOD TRUSS

NOTES:

1) ASSUME VERTICAL TRUSS SUPPORT ONLY AT THE WALLS.

2) ASSUME BOTTOM CHORD OF EACH TRUSS WILL BE RESTRAINED AGAINST LATERAL MOVEMENT IN BOTH HORIZONTAL DIRECTIONS BY THE A34 CLIPS INDATED ON THE TRUSS PROFILES. DESIGN EACH TRUSS TO TRANSMIT LATERAL WIND FROM THE TOP CHORD TO THE BOTTOM CHORD. TRUSS WEB COMPRESSION MEMBERS TO BE DESIGNED TO AVOID THE NEED FOR LATERAL BRACING AGAINST BUCKLING.

3) INSTALL SIMPSON STRONG-TIE HARDWARE PER SIMPSON SPECIFICATIONS, U.N.O.

4) STABILITY DURING ERECTION TO BE DESIGNED & SUPPLIED BY OTHERS.

5) TRUSSES TO BE FABRICATED BY A CERTIFIED MEMBER OF THE TRUSS PLATE INSTITUTE AND SHALL COMPLY WITH THEIR STANDARDS.

6) CONNECTION PLATES SHALL BE IBC/ICBO APPROVED.

7) ALL TRUSSES MEMBERS SHALL HAVE LUMBER GRADE STAMPS.

8) THE TRUSS DESIGN AND ERECTION DRAWINGS SHALL BE MADE BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE IN QUESTION.

9) ERECTION PLANS SHALL SHOW THE TRUSS SPACING, TRUSS MARK (CALCULATION) NUMBERS, CONCENTRATED LOADS, & PERMANENT BRACING/BLOCKING AS REQUIRED BY THE TRUSS DESIGN.

10) SHOP DRAWINGS SHALL INCLUDE DIMENSIONS, CONFIGURATIONS, NOMINAL LUMBER SIZE AND GRADE, SPECIFICATIONS FOR CONNECTOR PLATES, THEIR SIZE AND LOCATIONS.

11) PROVIDE TEMPORARY ERECTION BRACING PER BCSI-B1 SUMMARY SHEET GUIDE FOR HANDLING, INSTALLING & BRACING OF METAL PLATED CONNECTED TRUSSES.

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

DATE:	REV:	DESCRIPTION:

* CONFIDENTIAL

AS INSTRUMENTS OF SERVICE, THESE DRAWINGS SHALL REMAIN THE PROPERTY OF SIP ENGINEERING CONSULTANTS, LLC WHO SHALL RETAIN ALL COMMON LAW, STATUTORY & OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS (ONLY FOR INFO. WITHIN THE MAIN DRAWING AREA). REPRODUCTION IS PROHIBITED WITHOUT THE EXPRESSED, WRITTEN PERMISSION OF SIP ENGINEERING CONSULTANTS, LLC.

EXPIRES 6-30-26

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
12-13-24

SIP ENGINEERING CONSULTANTS, LLC

14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007

PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S11

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

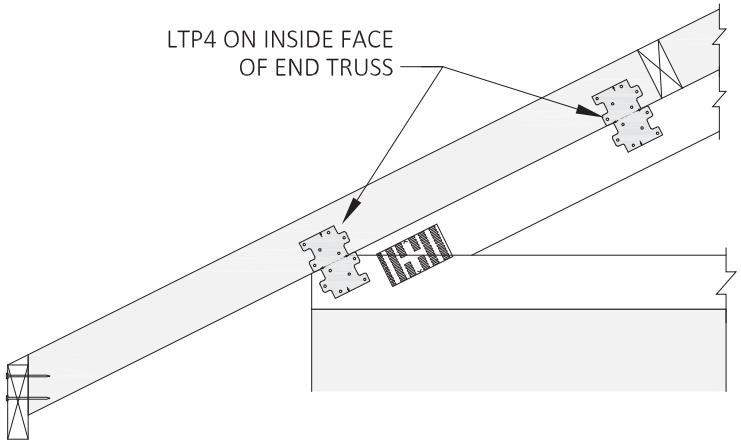
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

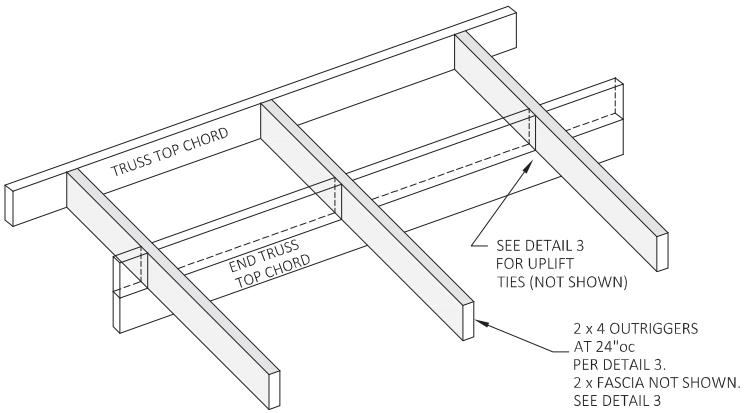
BOXABL

6:12 GABLE

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

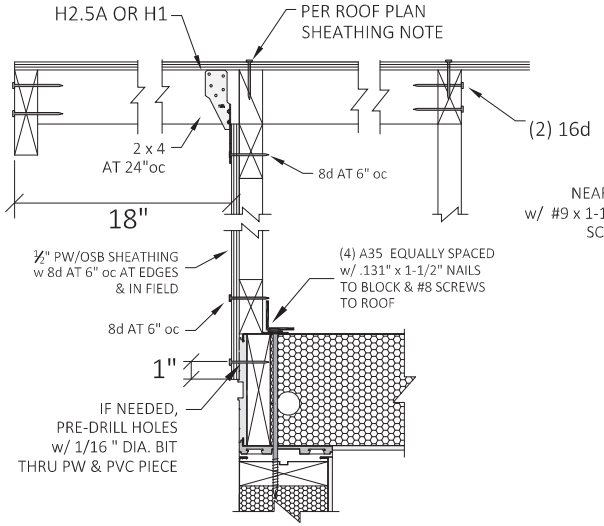


6 BLOCKING OVERHANG AT END TRUSS

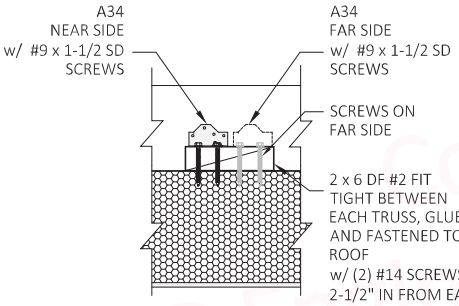


7 RAKE AT ENDWALLS

IF WITHIN 4,000 FT OF A COASTLINE
USE STAINLESS STEEL VERSIONS OF
HARDWARE, NAILS AND SCREWS SPECIFIED

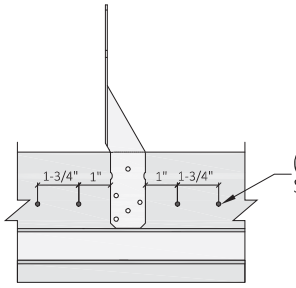


3 GABLE END TRUSS TO ROOF EDGE

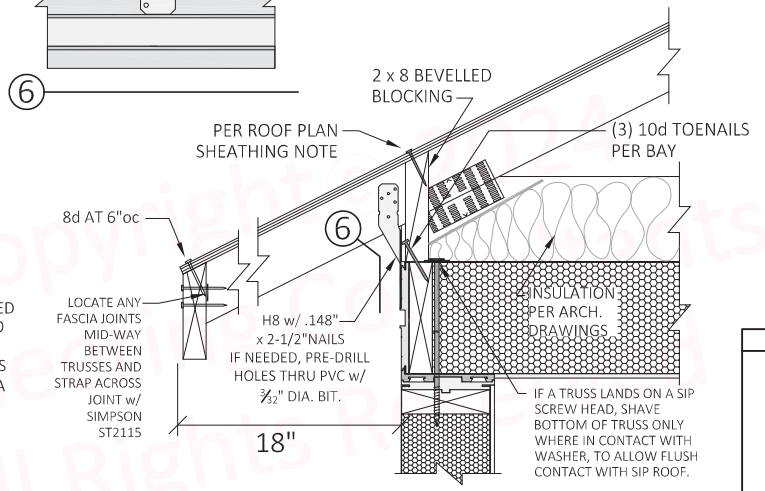


TRUSS BOT. CHORD
BRACING
AGAINST UPLIFT
BUCKLING

4



6



5 TRUSS-TO-SIP ROOF AT EAVE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:

* CONFIDENTIAL

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
12-13-24

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S12

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

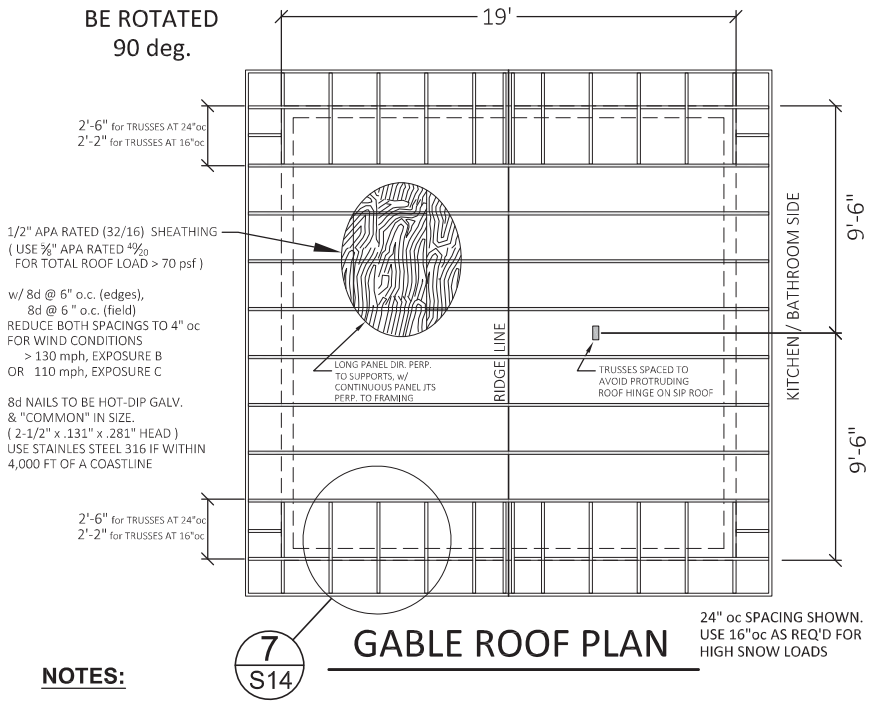
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

9:12 GABLE

TRUSSES MAY BE ROTATED 90 deg.



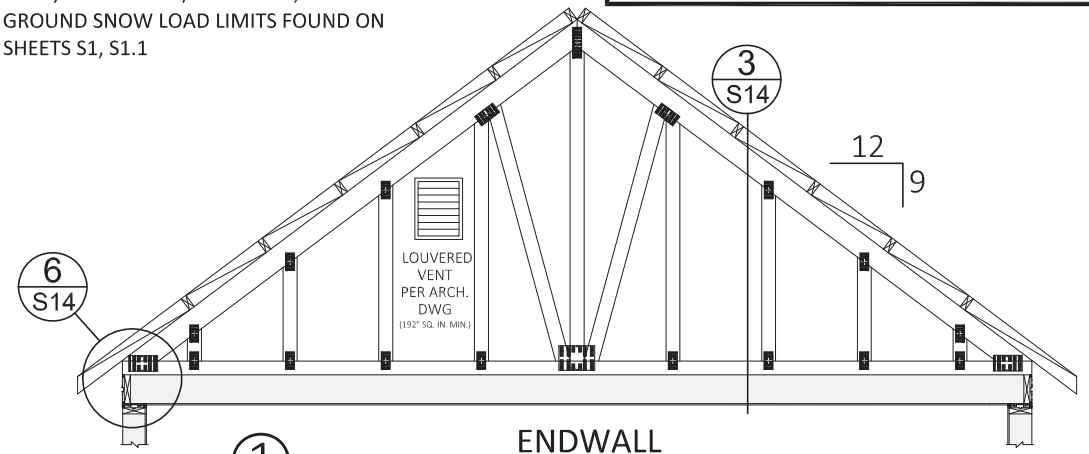
7 S14

GABLE ROOF PLAN

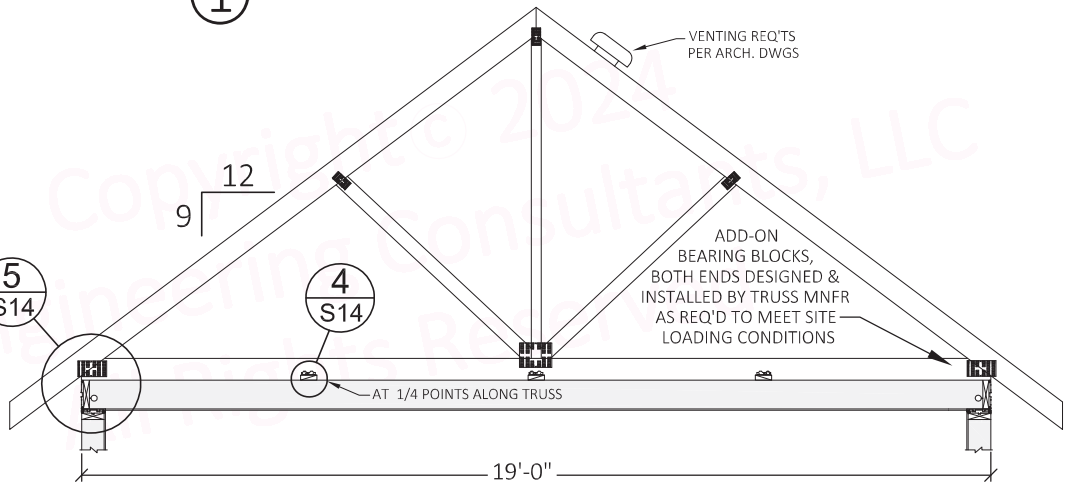
24" oc SPACING SHOWN.
USE 16"oc AS REQ'D FOR
HIGH SNOW LOADS

DESIGN CRITERIA

PER LOCAL CONDITIONS
BUT NEED NOT EXCEED MAXIMUM DEAD LOAD, WIND SPEED/EXPOSURE , AND GROUND SNOW LOAD LIMITS FOUND ON SHEETS S1, S1.1



1 ENDWALL



2 PRE-ENGINEERED WOOD TRUSS

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

NOTES:

1) ASSUME VERTICAL TRUSS SUPPORT ONLY AT THE WALLS.

2) ASSUME BOTTOM CHORD OF EACH TRUSS WILL BE RESTRAINED AGAINST LATERAL MOVEMENT IN BOTH HORIZONTAL DIRECTIONS BY THE A34 CLIPS INDATED ON THE TRUSS PROFILES. DESIGN EACH TRUSS TO TRANSMIT LATERAL WIND FROM THE TOP CHORD TO THE BOTTOM CHORD. TRUSS WEB COMPRESSION MEMBERS TO BE DESIGNED TO AVOID THE NEED FOR LATERAL BRACING AGAINST BUCKLING.

3) INSTALL SIMPSON STRONG-TIE HARDWARE PER SIMPSON SPECIFICATIONS, U.N.O.

4) STABILITY DURING ERECTION TO BE DESIGNED & SUPPLIED BY OTHERS.

5) TRUSSES TO BE FABRICATED BY A CERTIFIED MEMBER OF THE TRUSS PLATE INSTITUTE AND SHALL COMPLY WITH THEIR STANDARDS.

6) CONNECTION PLATES SHALL BE IBC/ICBO APPROVED.

7) ALL TRUSSES MEMBERS SHALL HAVE LUMBER GRADE STAMPS.

8) THE TRUSS DESIGN AND ERECTION DRAWINGS SHALL BE MADE BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE IN QUESTION.

9) ERECTION PLANS SHALL SHOW THE TRUSS SPACING, TRUSS MARK (CALCULATION) NUMBERS, CONCENTRATED LOADS, & PERMANENT BRACING/BLOCKING AS REQUIRED BY THE TRUSS DESIGN.

10) SHOP DRAWINGS SHALL INCLUDE DIMENSIONS, CONFIGURATIONS, NOMINAL LUMBER SIZE AND GRADE, SPECIFICATIONS FOR CONNECTOR PLATES, THEIR SIZE AND LOCATIONS.

11) PROVIDE TEMPORARY ERECTION BRACING PER BCSI-B1 SUMMARY SHEET GUIDE FOR HANDLING, INSTALLING & BRACING OF METAL PLATED CONNECTED TRUSSES.

EXPIRES 6-30-26

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances not it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

DATE:	REV:	DESCRIPTION:

REGISTERED PROFESSIONAL ENGINEER MIKE J. NELSON C 62770 EXP. 6-30-26 CIVIL STATE OF CALIFORNIA
12-13-24

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S13

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

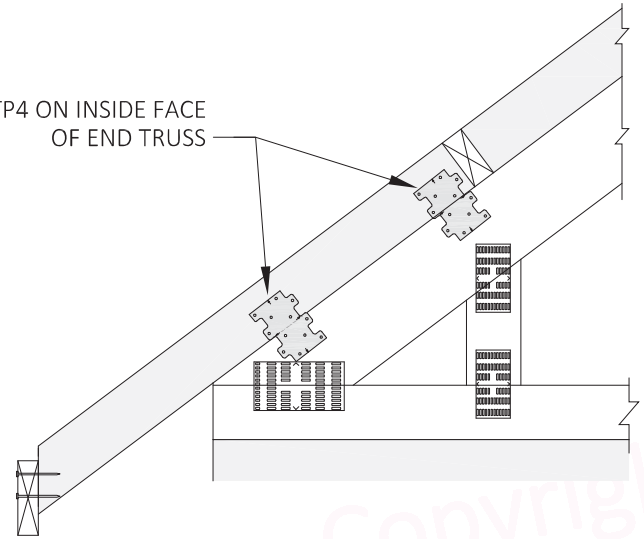
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

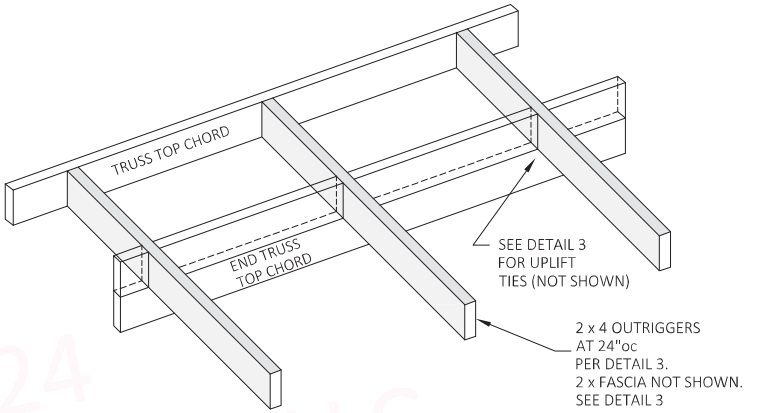
BOXABL

9:12 GABLE

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

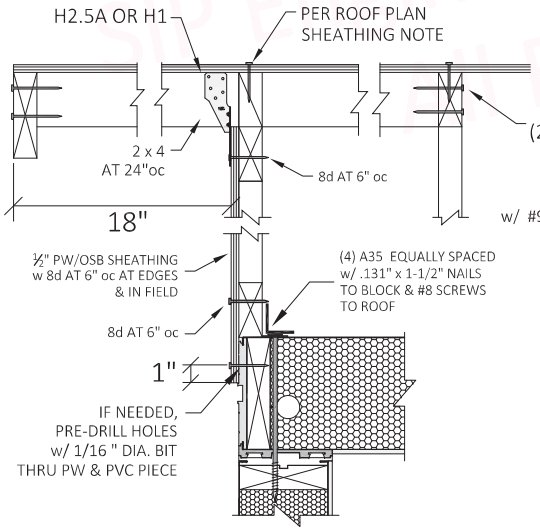


6 BLOCKING OVERHANG AT END TRUSS

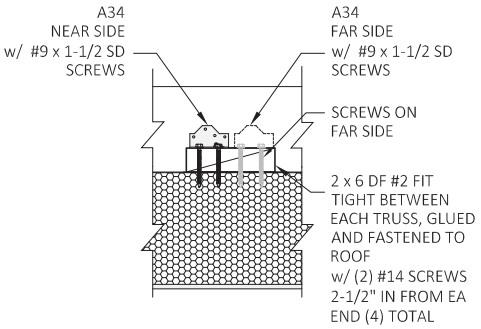


7 RAKE AT ENDWALLS

IF WITHIN 4,000 FT OF A COASTLINE
USE STAINLESS STEEL VERSIONS OF
HARDWARE, NAILS AND SCREWS SPECIFIED

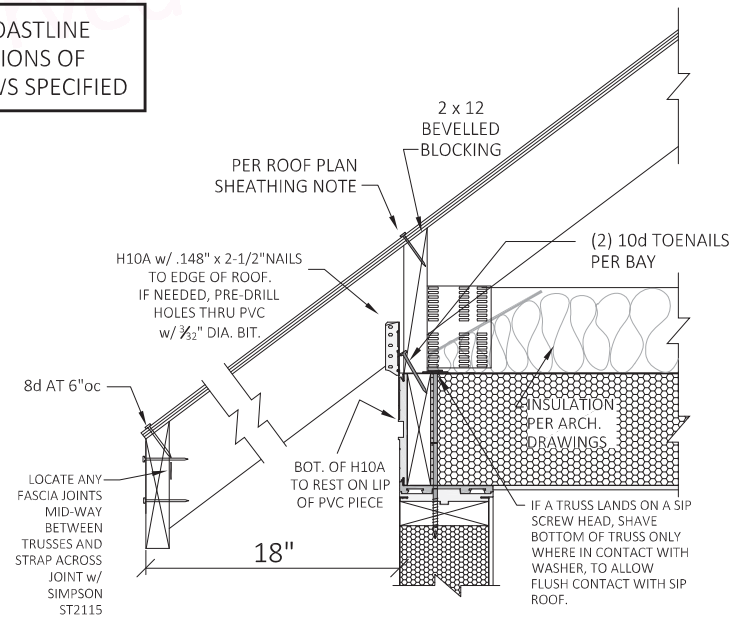


3 GABLE END TRUSS TO ROOF EDGE



TRUSS BOT. CHORD
BRACING
AGAINST UPLIFT
BUCKLING

4



5 TRUSS-TO-SIP ROOF AT EAVE

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:

* CONFIDENTIAL

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
12-13-24

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S14

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

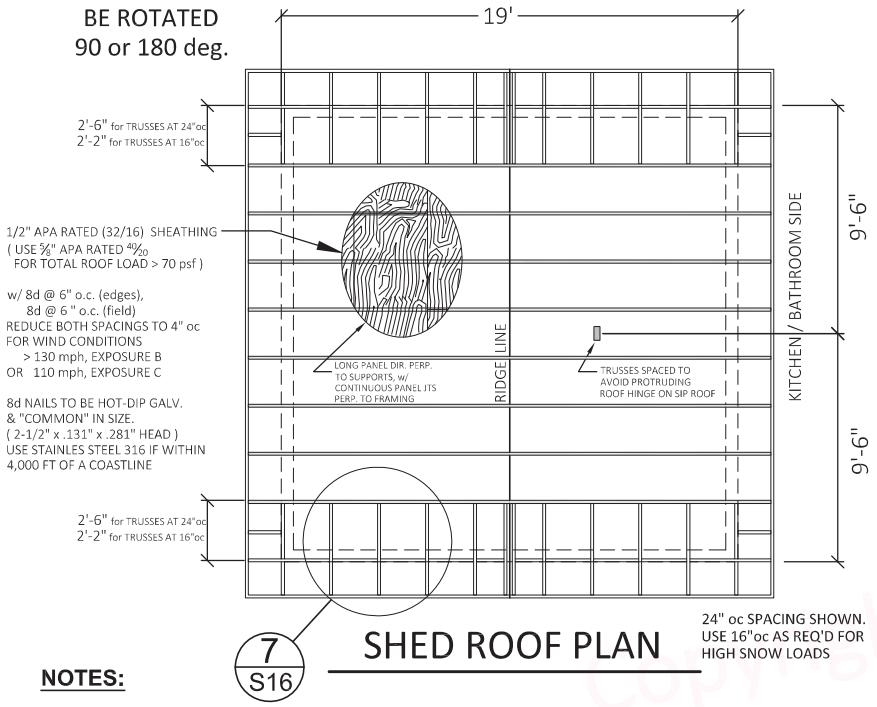
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

3:12 MONOSLOPE

TRUSSES MAY BE ROTATED 90 or 180 deg.



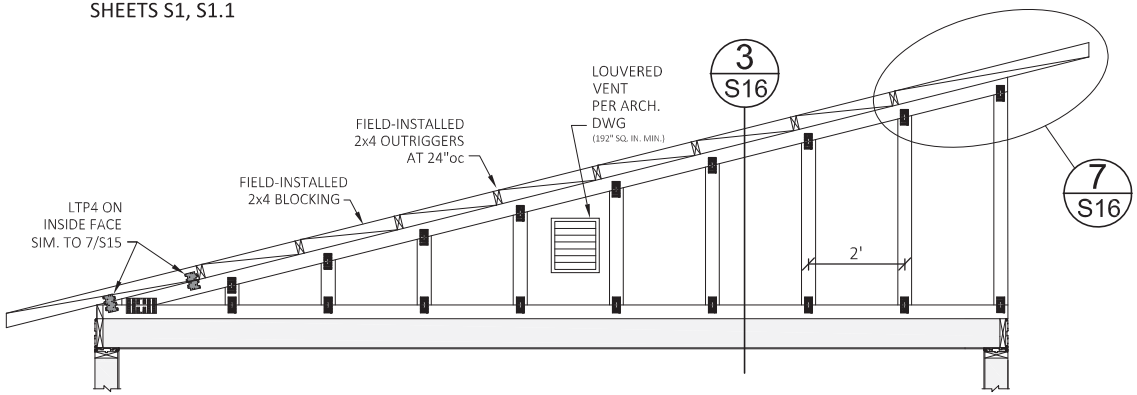
7 S16

SHED ROOF PLAN

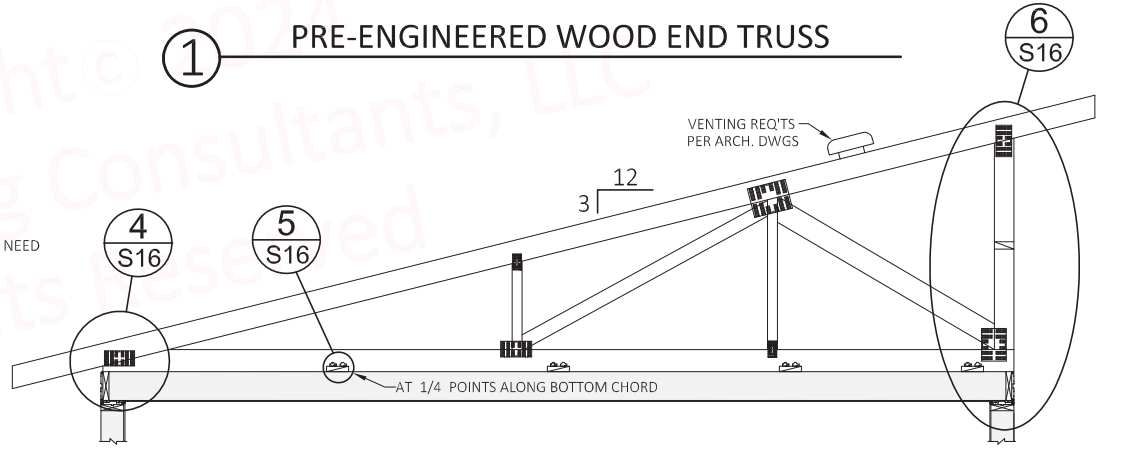
24" oc SPACING SHOWN.
USE 16"oc AS REQ'D FOR
HIGH SNOW LOADS

DESIGN CRITERIA

PER LOCAL CONDITIONS
BUT NEED NOT EXCEED MAXIMUM DEAD LOAD, WIND SPEED/EXPOSURE , AND GROUND SNOW LOAD LIMITS FOUND ON SHEETS S1, S1.1



1 PRE-ENGINEERED WOOD END TRUSS



2 PRE-ENGINEERED WOOD TRUSS

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

NOTES:

1) ASSUME VERTICAL TRUSS SUPPORT ONLY AT THE WALLS.

2) ASSUME BOTTOM CHORD OF EACH TRUSS WILL BE RESTRAINED AGAINST LATERAL MOVEMENT IN BOTH HORIZONTAL DIRECTIONS BY THE A34 CLIPS INDATED ON THE TRUSS PROFILES. DESIGN EACH TRUSS TO TRANSMIT LATERAL WIND FROM THE TOP CHORD TO THE BOTTOM CHORD. TRUSS WEB COMPRESSION MEMBERS TO BE DESIGNED TO AVOID THE NEED FOR LATERAL BRACING AGAINST BUCKLING.

3) INSTALL SIMPSON STRONG-TIE HARDWARE PER SIMPSON SPECIFICATIONS, U.N.O.

4) STABILITY DURING ERECTION TO BE DESIGNED & SUPPLIED BY OTHERS.

5) TRUSSES TO BE FABRICATED BY A CERTIFIED MEMBER OF THE TRUSS PLATE INSTITUTE AND SHALL COMPLY WITH THEIR STANDARDS.

6) CONNECTION PLATES SHALL BE IBC/ICBO APPROVED.

7) ALL TRUSSES MEMBERS SHALL HAVE LUMBER GRADE STAMPS.

8) THE TRUSS DESIGN AND ERECTION DRAWINGS SHALL BE MADE BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE IN QUESTION.

9) ERECTION PLANS SHALL SHOW THE TRUSS SPACING, TRUSS MARK (CALCULATION) NUMBERS, CONCENTRATED LOADS, & PERMANENT BRACING/BLOCKING AS REQUIRED BY THE TRUSS DESIGN.

10) SHOP DRAWINGS SHALL INCLUDE DIMENSIONS, CONFIGURATIONS, NOMINAL LUMBER SIZE AND GRADE, SPECIFICATIONS FOR CONNECTOR PLATES, THEIR SIZE AND LOCATIONS.

11) PROVIDE TEMPORARY ERECTION BRACING PER BCSI-B1 SUMMARY SHEET GUIDE FOR HANDLING, INSTALLING & BRACING OF METAL PLATED CONNECTED TRUSSES.

EXPIRES 6-30-26

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

DATE:	REV:	DESCRIPTION:

* CONFIDENTIAL

AS INSTRUMENTS OF SERVICE, THESE DRAWINGS SHALL REMAIN THE PROPERTY OF SIP ENGINEERING CONSULTANTS, LLC WHO SHALL RETAIN ALL COMMON LAW, STATUTORY & OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS (ONLY FOR INFO. WITHIN THE MAIN DRAWING AREA). REPRODUCTION IS PROHIBITED WITHOUT THE EXPRESSED, WRITTEN PERMISSION OF SIP ENGINEERING CONSULTANTS, LLC.

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
12-13-24

SIP ENGINEERING CONSULTANTS, LLC

14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007

PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S15

MODEL: 2 DOOR CASITA

MODEL #: BXB-000012

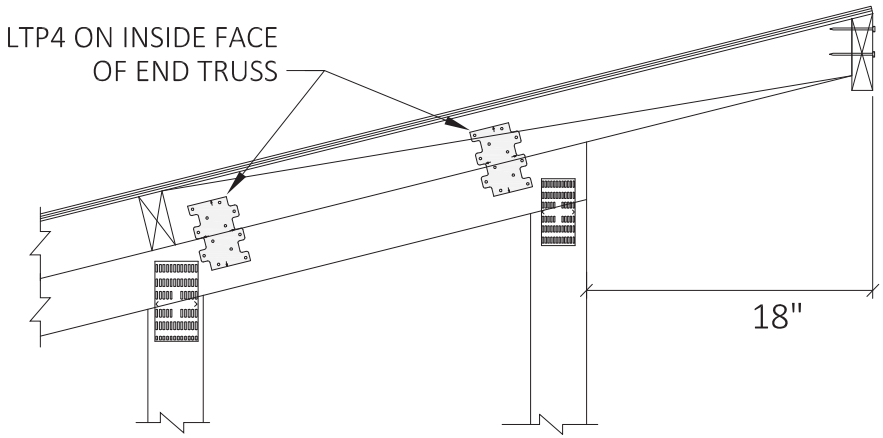
CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

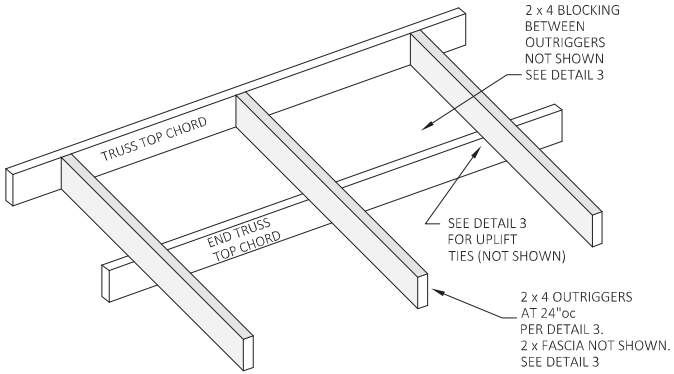
BOXABL

3:12 MONO

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

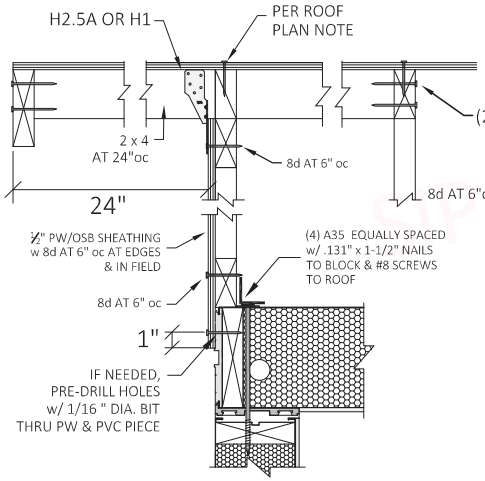


7 BLOCKING EXTENSION AT HIGH END CORNER

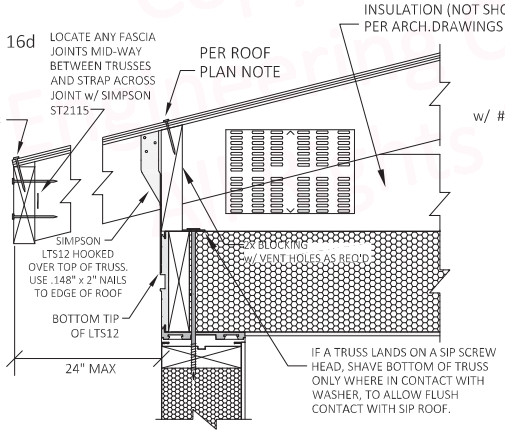


8 RAKE AT ENDWALLS

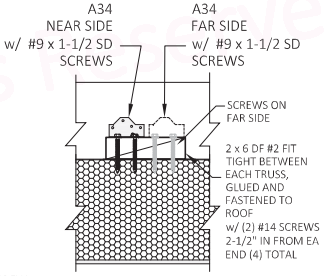
IF WITHIN 4,000 FT OF A COASTLINE
USE STAINLESS STEEL VERSIONS OF
HARDWARE, NAILS AND SCREWS SPECIFIED



3 GABLE END TRUSS TO ROOF EDGE

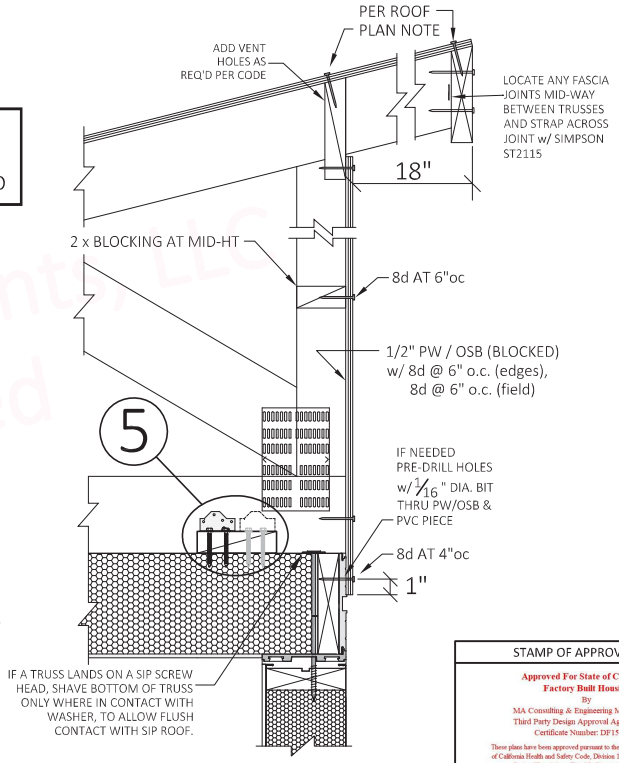


4 LEFT EDGE CONN.



TRUSS BOT. CHORD
BRACING
AGAINST UPLIFT
BUCKLING

5



6 RIGHT EDGE CONN.

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA
12-13-24

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S16

MODEL: 2 DOOR CASITA

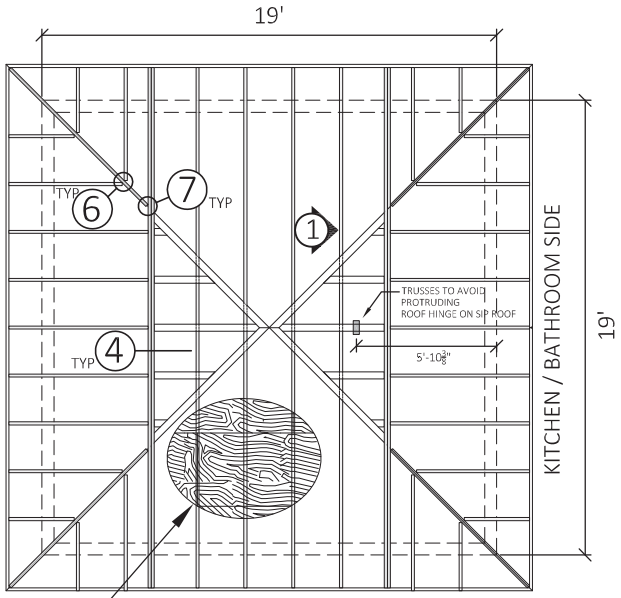
MODEL #: BXB-000012

CALIFORNIA

CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

3:12 HIP

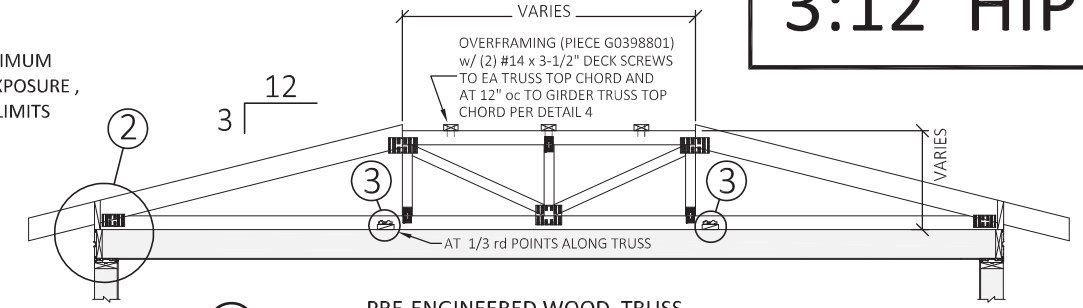


HIP ROOF PLAN

DESIGN CRITERIA

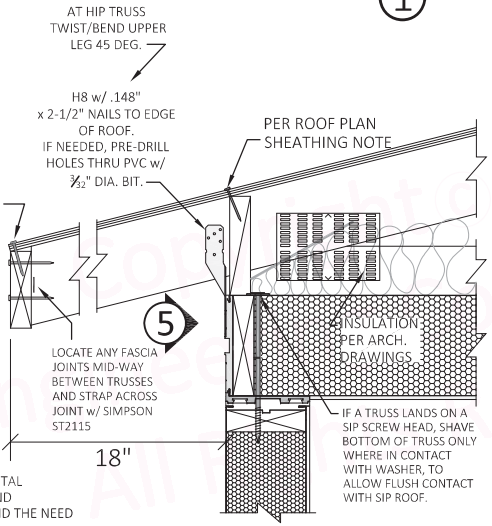
PER LOCAL CONDITIONS
BUT NEED NOT EXCEED MAXIMUM
DEAD LOAD, WIND SPEED/EXPOSURE ,
AND GROUND SNOW LOAD LIMITS
FOUND ON SHEETS S1, S1.1

ROOF TRUSSES DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

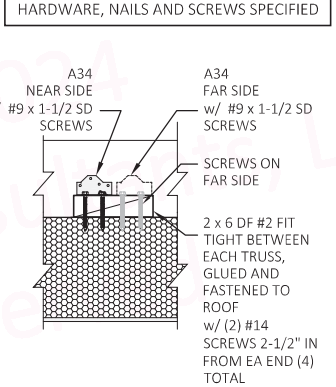


① PRE-ENGINEERED WOOD TRUSS

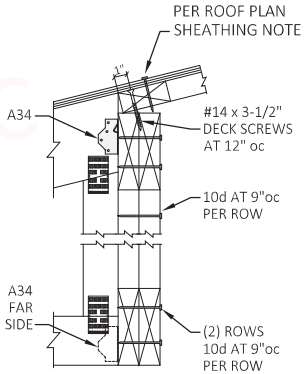
IF WITHIN 4,000 FT OF A COASTLINE USE STAINLESS STEEL VERSIONS OF HARDWARE, NAILS AND SCREWS SPECIFIED



② TRUSS-TO-SIP ROOF AT EAVE



③ TRUSS BOT. CHORD BRACING AGAINST UPLIFT BUCKLING



④ MONOTRUSS - TO - GIRDER TRUSS CONNECTIONS

NOTES:

1) ASSUME VERTICAL TRUSS SUPPORT ONLY AT THE WALLS.

2) ASSUME BOTTOM CHORD OF EACH TRUSS WILL BE RESTRAINED AGAINST LATERAL MOVEMENT IN BOTH HORIZONTAL DIRECTIONS BY THE A34 CLIPS INDATED ON THE TRUSS PROFILES. DESIGN EACH TRUSS TO TRANSMIT LATERAL WIND FROM THE TOP CHORD TO THE BOTTOM CHORD. TRUSS WEB COMPRESSION MEMBERS TO BE DESIGNED TO AVOID THE NEED FOR LATERAL BRACING AGAINST BUCKLING.

3) INSTALL SIMPSON STRONG-TIE HARDWARE PER SIMPSON SPECIFICATIONS, U.N.O.

4) STABILITY DURING ERECTION TO BE DESIGNED & SUPPLIED BY OTHERS.

5) TRUSSES TO BE FABRICATED BY A CERTIFIED MEMBER OF THE TRUSS PLATE INSTITUTE AND SHALL COMPLY WITH THEIR STANDARDS.

6) CONNECTION PLATES SHALL BE IBC/ICBO APPROVED.

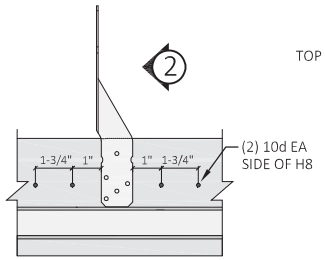
7) ALL TRUSSES MEMBERS SHALL HAVE LUMBER GRADE STAMPS.

8) THE TRUSS DESIGN AND ERECTION DRAWINGS SHALL BE MADE BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE IN QUESTION.

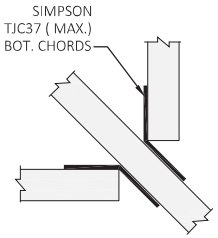
9) ERECTION PLANS SHALL SHOW THE TRUSS SPACING, TRUSS MARK (CALCULATION) NUMBERS, CONCENTRATED LOADS, & PERMANENT BRACING/BLOCKING AS REQUIRED BY THE TRUSS DESIGN.

10) SHOP DRAWINGS SHALL INCLUDE DIMENSIONS, CONFIGURATIONS, NOMINAL LUMBER SIZE AND GRADE, SPECIFICATIONS FOR CONNECTOR PLATES, THEIR SIZE AND LOCATIONS.

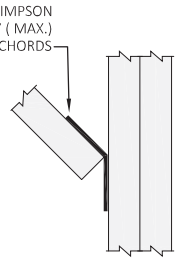
11) PROVIDE TEMPORARY ERECTION BRACING PER BCSI-B1 SUMMARY SHEET GUIDE FOR HANDLING, INSTALLING & BRACING OF METAL PLATED CONNECTED TRUSSES.



⑤



⑥ MONOTRUSS - TO - HIP TRUSS CONNECTION



⑦ MONOTRUSS - TO - HIP TRUSS CONNECTION

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:

REGISTERED PROFESSIONAL ENGINEER — MIKE J. NELSON — C 62770 — EXP. 6-30-26 — CIVIL — STATE OF CALIFORNIA
Mike Nelson 12-13-24

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S17

MODEL: 2 DOOR CASITA
MODEL #: BXB-000012
CALIFORNIA

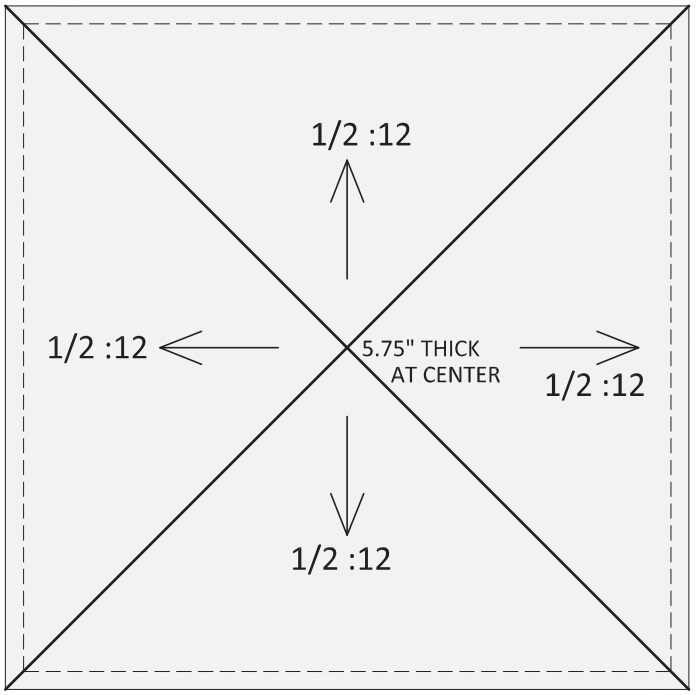
CLIENT: BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

TAPERED INSUL. / EPDM

DESIGNED, SUPPLIED, & SITE-INSTALLED BY OTHERS

MAXIMUM TAPERED ROOFING WEIGHT:
2 psf + 0.7 psf x (MAX. ALLOW. GROUND SNOW LOAD - ACTUAL GROUND SNOW LOAD)



EPDM ROOFING
OVER
TAPERED INSULATION GLUED TO ROOF.
DESIGNED, SUPPLIED & INSTALLED BY OTHERS

STAMP OF APPROVAL

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances not it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

EXPIRES 6-30-26

DATE:	REV:	DESCRIPTION:

REGISTERED PROFESSIONAL ENGINEER — MIKE J. NELSON — C 62770 — EXP. 6-30-26 — CIVIL — STATE OF CALIFORNIA
12-13-24

SIP ENGINEERING CONSULTANTS, LLC
14845 SW MURRAY SCHOLLS DR.
SUITE 110 PMB 306
BEAVERTON, OR 97007
PHONE : 503-564-4178
Mike@SIPconsultants.com

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	12/13/2024
SHEET:	S18

MODEL: 2 DOOR CASITA
MODEL #: BXB-000012
CALIFORNIA

CLIENT:
BOXABL INC.
5345 EAST NORTH BELT ROAD
NORTH LAS VEGAS, NV 89115, USA
+1(702) 500-9000 HELLO@BOXABL.COM

BOXABL

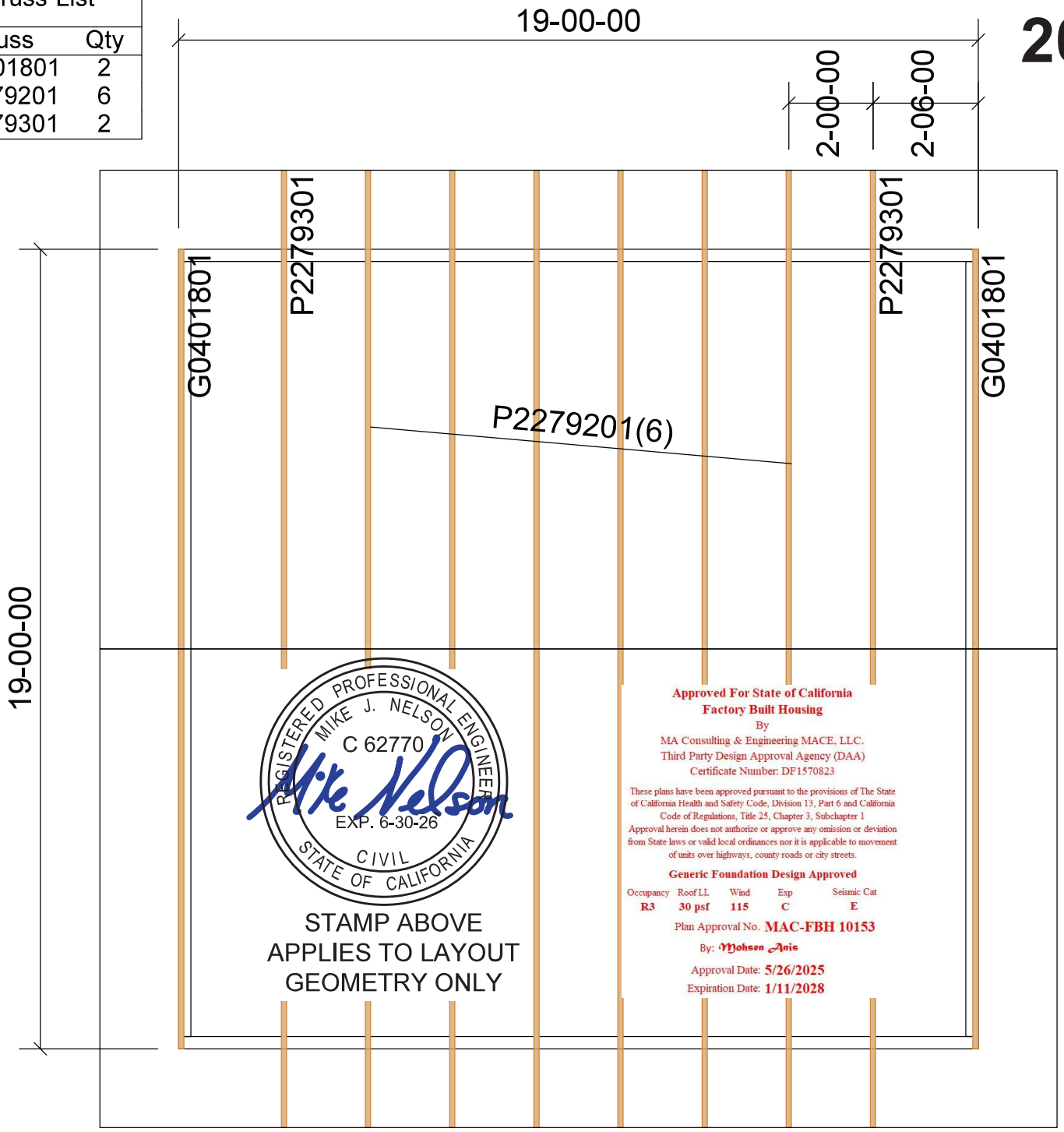
JOB	TRUSS	TRUSS TYPE	QTY	CUSTOMER
117774	L0313401	Truss Placement Plan	1	Boxabl 233 Gable 3/12 - 46.7 ground snow

UFP Industries Inc., Grand Rapids, MI 49525, Regan Craig

19 NOT USED

20

Truss List	
Truss	Qty
G0401801	2
P2279201	6
P2279301	2



Warning - Verify design parameters and READ NOTES

UFP Industries, Inc. 2801 East Beltline Rd, NE
PHONE (616)-364-6161 Grand Rapids, MI 49525

This is a TRUSS PLACEMENT PLAN to accurately locate pre-fabricated trusses in a building. This is not a structural framing plan and should not be construed as such. The Owner/Builder shall contract with a licensed design professional to prepare complete structural framing plans for the building. This layout is used to ensure accurate truss placement in accordance with the dimensional requirements of the building. This document does not consider building structural bracing requirements, shear walls, beams, columns or other structural elements that can be critical to the performance of the structure. Any reference to structural elements other than pre-fabricated trusses is purely incidental and is incorporated for clarity only. Refer to the structural framing plans prepared by the Building Engineer of Record for complete framing information. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on this placement drawing. The building designer must incorporate the truss manufacturer's note on type and location of permanent web member reinforcemtn requirements in the truss design with full analysis of the overall structural design. For guideance regarding bracing, consult BCSI 1-03, "Guide to Good Practice for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses" available from the WTCA/TPI, 583 D'Onifrio Drive; Madison, WI 53179. It is the responsibility of the General Contractor/Superintendent to verify that the provided truss layout matches final intended construction plans, loading conditions and use. If they do not, it is the responsibility of the General Contractor/Superintendent to provide prints /plans containing the latest specifications and designs. UFP Industries (UFP) will not be responsibile for print/plan changes by others after final approval of shop drawings, nor is UFP responsible for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED DESIGN PROFESSIONAL DESIGNATED BY UFP. UFP WILL NOT BE HELD RESPONSIBLE FOR ANY MODIFICATIONS OR "CHARGE BACKS" DONE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM UFP.

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117774	P2279301	QUEENPOST	1	1	I69115225
					Job Reference (optional)

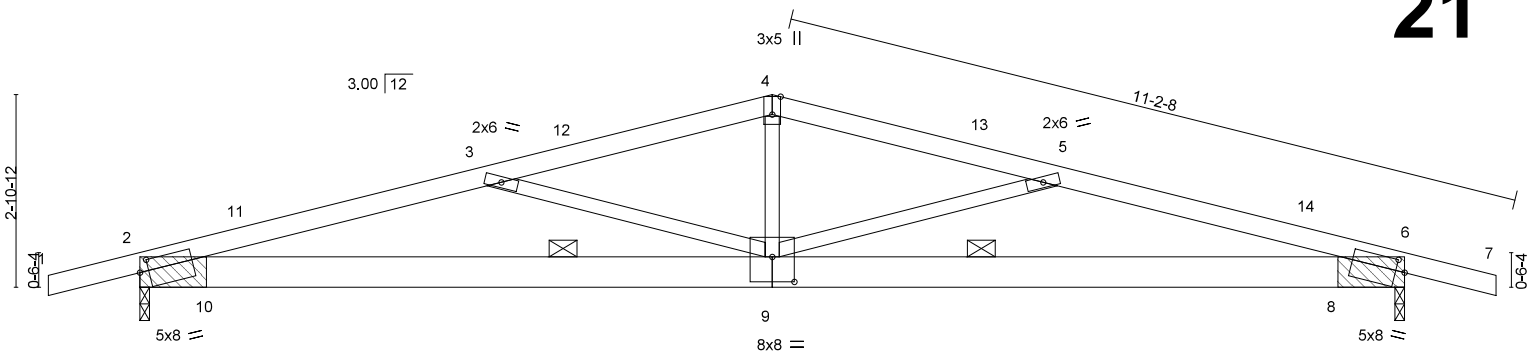
UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:44:45 2024 Page 1

ID:Xz3qLqaXulJuq6xSPTA9xDyvRys-6?kOWk4TfhUK96Mip74FDtek0WPjFtog?gmWr8yQBBW

-1-4-8	5-5-3	9-6-0	13-6-13	19-0-0	20-4-8
1-4-8	5-5-3	4-0-13	4-0-13	5-5-3	1-4-8

Scale = 1:34.6

21



9-6-0	19-0-0
9-6-0	9-6-0

Plate Offsets (X,Y)-- [2:0-1-10,0-2-0], [4:0-3-4,Edge], [6:0-1-10,0-2-0], [9:0-4-0,0-4-8]

SPACING-: 2-3-0		**SPACING-:** 1-9-0		**SPACING-** 2-3-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)		**LOADING** (psf)		Plate Grip DOL 1.00		TC 0.89		Vert(LL)	-0.16	9	>999	240	MT20	185/144
TCLL	38.1	TCLL	49.0	Lumber DOL 1.00		BC 0.38		Vert(CT)	-0.24	9	>932	180		
(Ground Snow=54.5)		(Ground Snow=70.0)		Rep Stress Incr NO		WB 0.74		Horz(CT)	0.05	6	n/a	n/a		
TCDL	14.0	TCDL	18.0	Code IBC2021/TPI2014		Matrix-P							Weight: 72 lb	
BCLL	0.0 *	BCLL	0.0 *										FT = 20%	
BCDL	5.0	BCDL	6.4											

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x3 HF No.2 or 2x3 SPF No.2 *Except*
4-9: 2x3 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=(0-1-12 + bearing block) (req. 0-1-15), 6=(0-1-12 + bearing block) (req. 0-1-15)
Max Horz 2=-78(LC 13)
Max Uplift 2=-568(LC 8), 6=-568(LC 9)
Max Grav 2=1546(LC 19), 6=1546(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3623/1576, 3-4=-2342/1135, 4-5=-2342/1135, 5-6=-3623/1576
BOT CHORD 2-9=-1427/3392, 6-9=-1427/3392
WEBS 3-9=-1399/560, 4-9=-270/703, 5-9=-1399/560

NOTES- (10-12)

1) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 2 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
2) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 6 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
3) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @27in o.c.; TCDL=3.8psf; BCDL=1.9psf; (Alt. 154mph @21in o.c.; TCDL=4.9psf; BCDL=2.4psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 6-6-0, Exterior(2R) 6-6-0 to 12-6-0, Interior(1) 12-6-0 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pg= 54.5 psf; Pf=38.1 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 38.1 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=568, 6=568.
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP: 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117774	P2279201	QUEENPOST	1	1	I69115224
					Job Reference (optional)

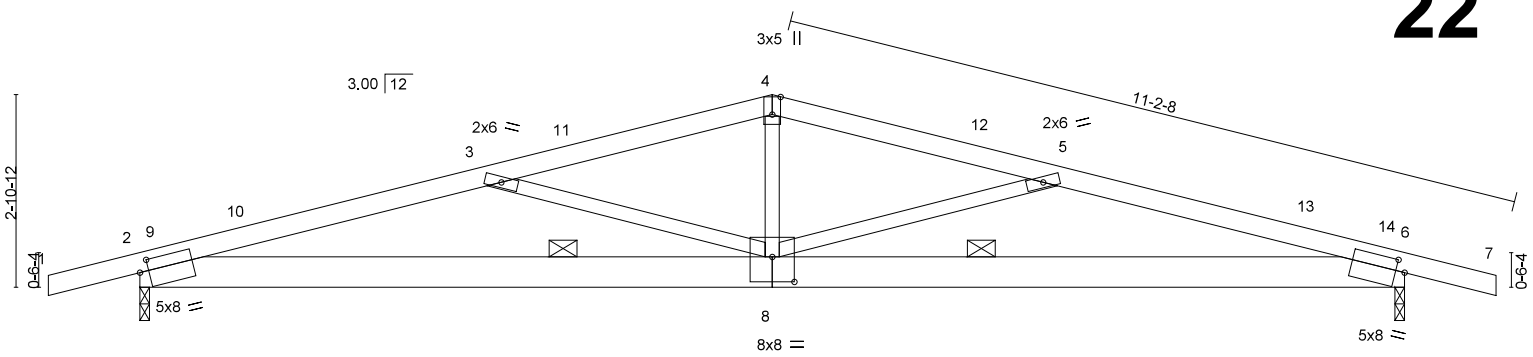
UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:44:40 2024 Page 1

ID:Xz3qLqaXulJuq6xSPTA9xDyvRys-m2wVT00Kq8s12KTl0aU4WpxupVifaewxrO3lAwyQBBb

-1-4-8	5-5-3	9-6-0	13-6-13	19-0-0	20-4-8
1-4-8	5-5-3	4-0-13	4-0-13	5-5-3	1-4-8

Scale = 1:34.6

22



9-6-0	19-0-0
9-6-0	9-6-0

Plate Offsets (X,Y)-- [2:0-1-10,0-2-0], [4:0-3-3,Edge], [6:0-1-10,0-2-0], [8:0-4-0,0-4-8]

SPACING-: 2-0-0	**SPACING-:** 1-4-0	**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d
LOADING (psf)	**LOADING** (psf)	Plate Grip DOL 1.00	TC 0.80		Vert(LL)	-0.14	8	>999	240
TCLL 32.7	TCLL 49.0	Lumber DOL 1.00	BC 0.31		Vert(CT)	-0.21	8	>999	180
(Ground Snow=46.7)	(Ground Snow=70.1)	Rep Stress Incr YES	WB 0.59		Horz(CT)	0.04	6	n/a	n/a
TCDL 14.0	TCDL 21.0	Code IBC2021/TPI2014	Matrix-P						
BCLL 0.0 *	BCLL 0.0 *								
BCDL 5.0	BCDL 7.5								

PLATES	**GRIP**
MT20	185/144

Weight: 69 lb
FT = 20%

LUMBER-
TOP CHORD 2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x3 HF No.2 or 2x3 SPF No.2 *Except*
4-8: 2x3 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 6=0-1-12
Max Horz 2=-70(LC 17)
Max Uplift 2=-498(LC 8), 6=-498(LC 9)
Max Grav 2=1234(LC 19), 6=1234(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2918/1385, 3-4=-1883/995, 4-5=-1883/995, 5-6=-2918/1385
BOT CHORD 2-8=-1253/2736, 6-8=-1253/2736
WEBS 3-8=-1115/496, 4-8=-235/570, 5-8=-1115/497

NOTES- (9-11)
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @24in o.c.; TCDL=4.0psf; BCDL=2.0psf; (Alt. 167mph @16in o.c.; TCDL=6.0psf; BCDL=3.0psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 6-6-0, Exterior(2R) 6-6-0 to 12-6-0, Interior(1) 12-6-0 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 6.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=498, 6=498.
9) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
10) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117774	G0401801	GABLE	1	1	I69115223
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:44:34 2024 Page 1

ID:Xz3qLqaXuIJuq6xSPTA9xDyvRys-xuZECzyZEI5uKP0bgJNgGYhws4iZA012TScQyGyQBBh

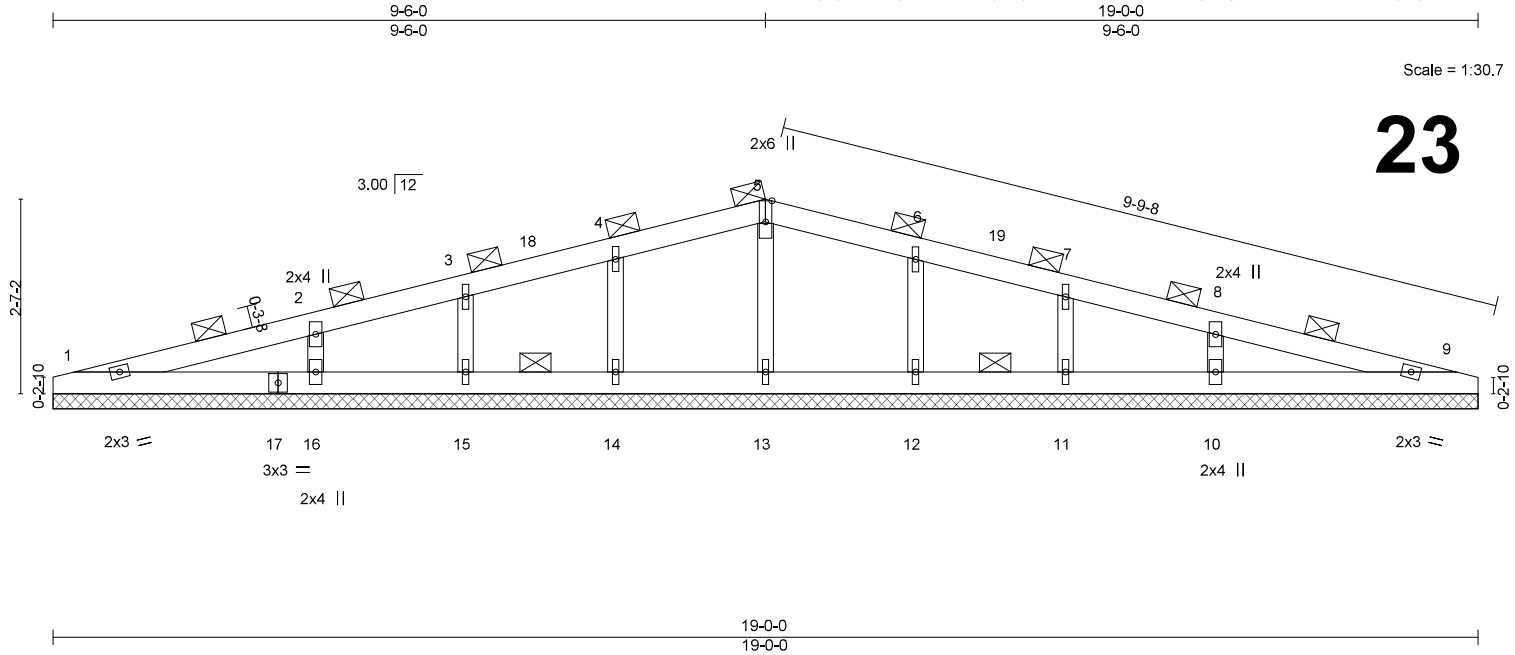


Plate Offsets (X,Y)-- [5:0-3-6,Edge]

SPACING-: 3-3-0	SPACING-: 3-1-0	SPACING- 3-3-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
LOADING (psf)	LOADING (psf)	Plate Grip DOL 1.00	TC	0.63	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCLL 46.5	TCLL 49.0	Lumber DOL 1.00	BC	0.10	Vert(CT)	n/a	-	n/a	999		
(Ground Snow=66.4)	(Ground Snow=70.0)	Rep Stress Incr NO	WB	0.30	Horz(CT)	0.00	9	n/a	n/a		
TCDL 11.0	TCDL 11.6	Code IBC2021/TPI2014	Matrix-P							Weight: 51 lb	
BCLL 0.0 *	BCLL 0.0 *									FT = 20%	
BCDL 5.0	BCDL 5.3										

LUMBER-

TOP CHORD	2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD	2x4 HF No.2 or 2x4 SPF No.2
OTHERS	2x3 SPF Stud

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	6-4-0 oc bracing.

REACTIONS. All bearings 19-0-0.
(lb) - Max Horz 1=-96(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 13 except 14=-184(LC 8), 15=-115(LC 12), 16=-254(LC 8), 12=-184(LC 9), 11=-115(LC 13), 10=-254(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 1=361(LC 18), 9=361(LC 19), 13=315(LC 1), 14=644(LC 18), 15=407(LC 18), 16=901(LC 18), 12=645(LC 19), 11=407(LC 19), 10=899(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-13=-284/111, 4-14=-609/335, 3-15=-382/177, 2-16=-847/384, 6-12=-610/336, 7-11=-382/177, 8-10=-846/383

NOTES- (12-14)
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @39in o.c.; TCDL=5.1psf; BCDL=2.5psf; (Alt. 140mph @37in o.c.; TCDL=5.4psf; BCDL=2.6psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-3-10 to 3-6-0, Exterior(2N) 3-6-0 to 6-5-15, Corner(3R) 6-5-15 to 12-5-15, Exterior(2N) 12-5-15 to 15-6-0, Corner(3E) 15-6-0 to 18-8-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pg= 66.4 psf; Pf=46.5 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 13 except (jt=lb) 14=184, 15=115, 16=254, 12=184, 11=115, 10=254.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
14) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

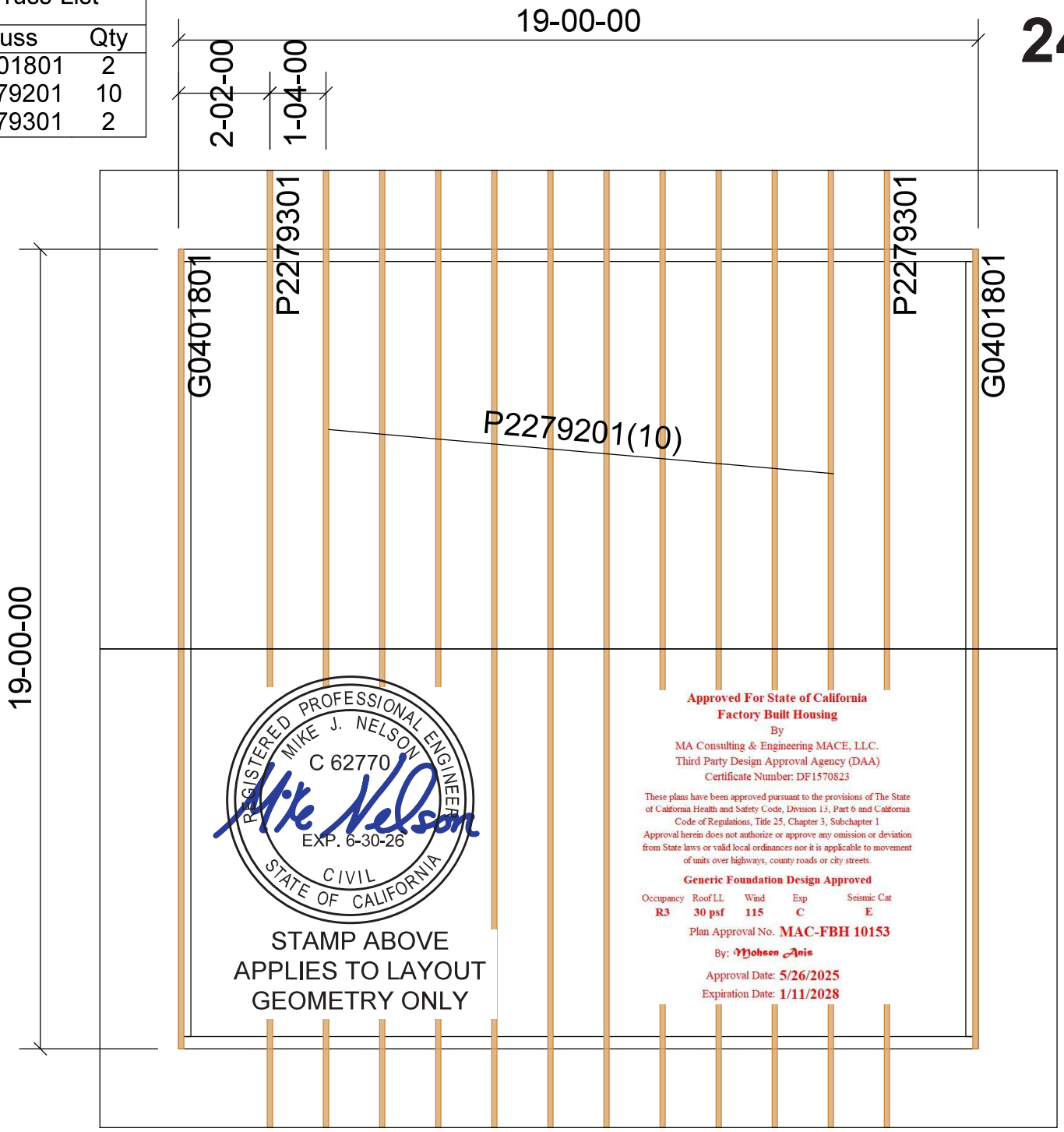
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

JOB	TRUSS	TRUSS TYPE	QTY	CUSTOMER
117774	L0313402	Truss Placement Plan	1	Boxabl 233 Gable 3/12 - 70 ground snow

UFP Industries Inc., Grand Rapids, MI 49525, Regan Craig

Truss List	
Truss	Qty
G0401801	2
P2279201	10
P2279301	2

24



Warning - Verify design parameters and READ NOTES

UFP Industries, Inc. 2801 East Beltline Rd, NE
PHONE (616)-364-6161 Grand Rapids, MI 49525

This is a TRUSS PLACEMENT PLAN to accurately locate pre-fabricated trusses in a building. This is not a structural framing plan and should not be construed as such. The Owner/Builder shall contract with a licensed design professional to prepare complete structural framing plans for the building. This layout is used to ensure accurate truss placement in accordance with the dimensional requirements of the building. This document does not consider building structural bracing requirements, shear walls, beams, columns or other structural elements that can be critical to the performance of the structure. Any reference to structural elements other than pre-fabricated trusses is purely incidental and is incorporated for clarity only. Refer to the structural framing plans prepared by the Building Engineer of Record for complete framing information. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on this placement drawing. The building designer must incorporate the truss manufacturer's note on type and location of permanent web member reinforcemtn requirements in the truss design with full analysis of the overall structural design. For guideance regarding bracing, consult BCSI 1-03, "Guide to Good Practice for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses" available from the WTCA/TPI, 583 D'Onifrio Drive; Madison, WI 53179. It is the responsibility of the General Contractor/Superintendent to verify that the provided truss layout matches final intended construction plans, loading conditions and use. If they do not, it is the responsibility of the General Contractor/Superintendent to provide prints /plans containing the latest specifications and designs. UFP Industries (UFP) will not be responsibile for print/plan changes by others after final approval of shop drawings, nor is UFP responsible for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED DESIGN PROFESSIONAL DESIGNATED BY UFP. UFP WILL NOT BE HELD RESPONSIBLE FOR ANY MODIFICATIONS OR "CHARGE BACKS" DONE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM UFP.

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117774	P2279201	QUEENPOST	1	1	I69115224
					Job Reference (optional)

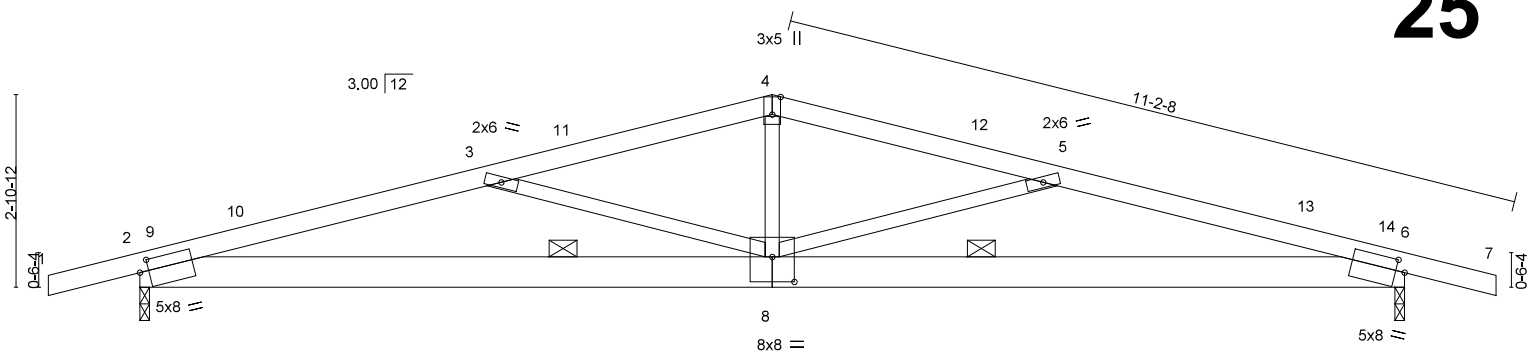
UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:44:40 2024 Page 1

ID:Xz3qLqaXulJuq6xSPTA9xDyvRys-m2wVT00Kq8s12KTl0aU4WpxupVifaewxrO3lAwyQBBb

-1-4-8	5-5-3	9-6-0	13-6-13	19-0-0	20-4-8
1-4-8	5-5-3	4-0-13	4-0-13	5-5-3	1-4-8

Scale = 1:34.6

25



9-6-0	19-0-0
9-6-0	9-6-0

Plate Offsets (X,Y)-- [2:0-1-10,0-2-0], [4:0-3-3,Edge], [6:0-1-10,0-2-0], [8:0-4-0,0-4-8]

SPACING-: 2-0-0	**SPACING-:** 1-4-0	**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d
LOADING (psf)	**LOADING** (psf)	Plate Grip DOL 1.00	TC 0.80		Vert(LL)	-0.14	8	>999	240
TCLL 32.7	TCLL 49.0	Lumber DOL 1.00	BC 0.31		Vert(CT)	-0.21	8	>999	180
(Ground Snow=46.7)	(Ground Snow=70.1)	Rep Stress Incr YES	WB 0.59		Horz(CT)	0.04	6	n/a	n/a
TCDL 14.0	TCDL 21.0	Code IBC2021/TPI2014	Matrix-P						
BCLL 0.0 *	BCLL 0.0 *								
BCDL 5.0	BCDL 7.5								

PLATES	**GRIP**
MT20	185/144
Weight: 69 lb	
FT = 20%	

LUMBER-

TOP CHORD	2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD	2x6 SPF 2100F 1.8E
WEBS	2x3 HF No.2 or 2x3 SPF No.2 *Except* 4-8: 2x3 SPF Stud

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 6=0-1-12
Max Horz 2=-70(LC 17)
Max Uplift 2=-498(LC 8), 6=-498(LC 9)
Max Grav 2=1234(LC 19), 6=1234(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2918/1385, 3-4=-1883/995, 4-5=-1883/995, 5-6=-2918/1385
BOT CHORD	2-8=-1253/2736, 6-8=-1253/2736
WEBS	3-8=-1115/496, 4-8=-235/570, 5-8=-1115/497

NOTES- (9-11)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @24in o.c.; TCDL=4.0psf; BCDL=2.0psf; (Alt. 167mph @16in o.c.; TCDL=6.0psf; BCDL=3.0psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 6-6-0, Exterior(2R) 6-6-0 to 12-6-0, Interior(1) 12-6-0 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 6.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=498, 6=498.
9) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
10) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117774	P2279301	QUEENPOST	1	1	I69115225
					Job Reference (optional)

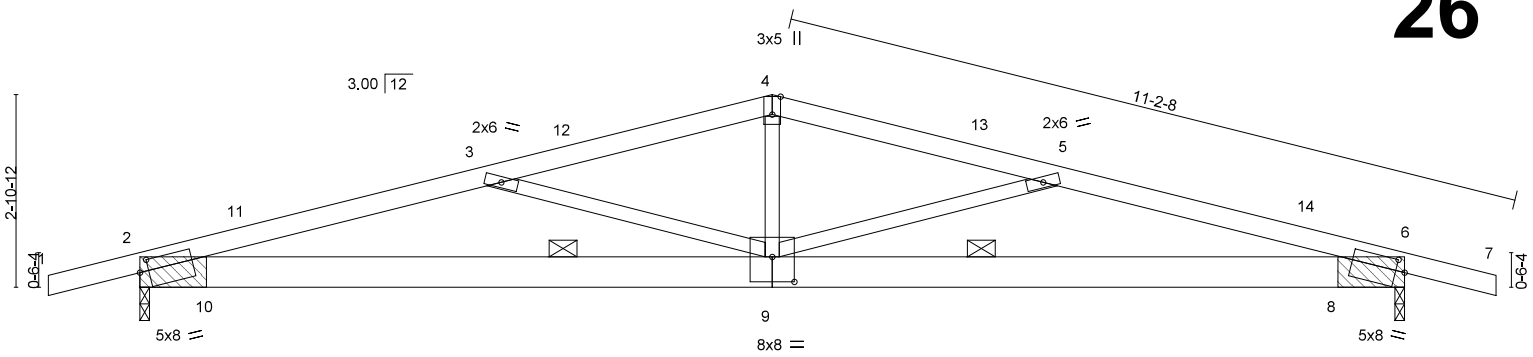
UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:44:45 2024 Page 1

ID:Xz3qLqaXulJuq6xSPTA9xDyvRys-6?kOWk4TfhUK96Mip74FDtek0WPjFtog?gmWr8yQBBW

-1-4-8	5-5-3	9-6-0	13-6-13	19-0-0	20-4-8
1-4-8	5-5-3	4-0-13	4-0-13	5-5-3	1-4-8

Scale = 1:34.6

26



9-6-0	19-0-0
9-6-0	9-6-0

Plate Offsets (X,Y)-- [2:0-1-10,0-2-0], [4:0-3-4,Edge], [6:0-1-10,0-2-0], [9:0-4-0,0-4-8]

SPACING-: 2-3-0		**SPACING-:** 1-9-0		**SPACING-** 2-3-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)		**LOADING** (psf)		Plate Grip DOL 1.00		TC 0.89		Vert(LL)	-0.16	9	>999	240	MT20	185/144
TCLL	38.1	TCLL	49.0	Lumber DOL 1.00		BC 0.38		Vert(CT)	-0.24	9	>932	180		
(Ground Snow=54.5)		(Ground Snow=70.0)		Rep Stress Incr NO		WB 0.74		Horz(CT)	0.05	6	n/a	n/a		
TCDL	14.0	TCDL	18.0	Code IBC2021/TPI2014		Matrix-P							Weight: 72 lb	
BCLL	0.0 *	BCLL	0.0 *										FT = 20%	
BCDL	5.0	BCDL	6.4											

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x3 HF No.2 or 2x3 SPF No.2 *Except*
4-9: 2x3 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=(0-1-12 + bearing block) (req. 0-1-15), 6=(0-1-12 + bearing block) (req. 0-1-15)
Max Horz 2=-78(LC 13)
Max Uplift 2=-568(LC 8), 6=-568(LC 9)
Max Grav 2=1546(LC 19), 6=1546(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3623/1576, 3-4=-2342/1135, 4-5=-2342/1135, 5-6=-3623/1576
BOT CHORD 2-9=-1427/3392, 6-9=-1427/3392
WEBS 3-9=-1399/560, 4-9=-270/703, 5-9=-1399/560

NOTES- (10-12)
1) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 2 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
2) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 6 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
3) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @27in o.c.; TCDL=3.8psf; BCDL=1.9psf; (Alt. 154mph @21in o.c.; TCDL=4.9psf; BCDL=2.4psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 6-6-0, Exterior(2R) 6-6-0 to 12-6-0, Interior(1) 12-6-0 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pg= 54.5 psf; Pf=38.1 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 38.1 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=568, 6=568.
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117774	G0401801	GABLE	1	1	I69115223
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:44:34 2024 Page 1

ID:Xz3qLqaXuIJuq6xSPTA9xDyvRys-xuZECzyZEI5uKP0bgJNgGYhws4iZA012TScQyGyQBBh

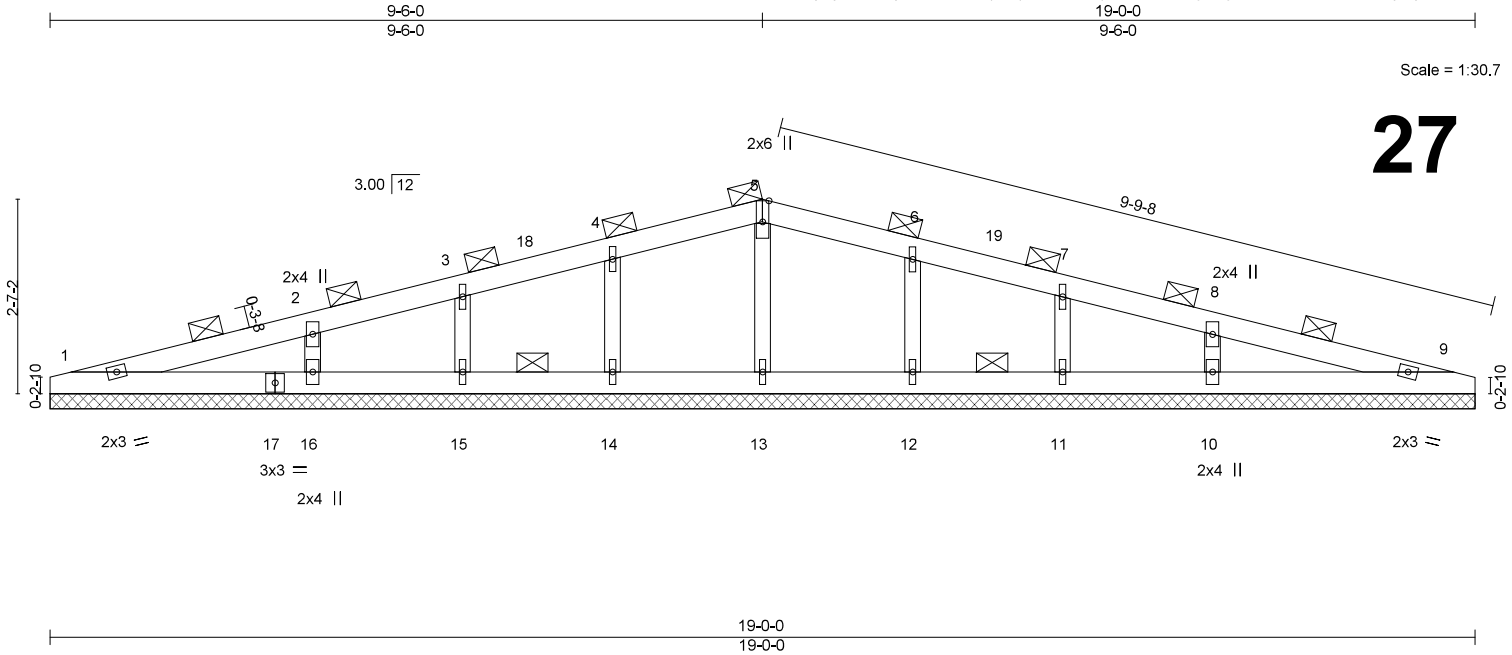


Plate Offsets (X,Y)-- [5:0-3-6,Edge]

SPACING-: 3-3-0		**SPACING-:** 3-1-0		**SPACING-**	3-3-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)		**LOADING** (psf)		Plate Grip DOL	1.00	TC	0.63	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCLL	46.5	TCLL	49.0	Lumber DOL	1.00	BC	0.10	Vert(CT)	n/a	-	n/a	999		
(Ground Snow=66.4)		(Ground Snow=70.0)		Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.00	9	n/a	n/a		
TCDL	11.0	TCDL	11.6	Code IBC2021/TPI2014		Matrix-P							Weight: 51 lb	
BCLL	0.0 *	BCLL	0.0 *										FT = 20%	
BCDL	5.0	BCDL	5.3											

LUMBER-

TOP CHORD	2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD	2x4 HF No.2 or 2x4 SPF No.2
OTHERS	2x3 SPF Stud

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	6-4-0 oc bracing.

REACTIONS. All bearings 19-0-0.
(lb) - Max Horz 1=-96(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 13 except 14=-184(LC 8), 15=-115(LC 12), 16=-254(LC 8), 12=-184(LC 9), 11=-115(LC 13), 10=-254(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 1=361(LC 18), 9=361(LC 19), 13=315(LC 1), 14=644(LC 18), 15=407(LC 18), 16=901(LC 18), 12=645(LC 19), 11=407(LC 19), 10=899(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-13=-284/111, 4-14=-609/335, 3-15=-382/177, 2-16=-847/384, 6-12=-610/336, 7-11=-382/177, 8-10=-846/383

NOTES- (12-14)
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @39in o.c.; TCDL=5.1psf; BCDL=2.5psf; (Alt. 140mph @37in o.c.; TCDL=5.4psf; BCDL=2.6psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-3-10 to 3-6-0, Exterior(2N) 3-6-0 to 6-5-15, Corner(3R) 6-5-15 to 12-5-15, Exterior(2N) 12-5-15 to 15-6-0, Corner(3E) 15-6-0 to 18-8-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pg= 66.4 psf; Pf=46.5 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 13 except (jt=lb) 14=184, 15=115, 16=254, 12=184, 11=115, 10=254.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
14) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

JOB	TRUSS	TRUSS TYPE	QTY	CUSTOMER
117380	L0311401	Truss Placement Plan	1	Boxabl 233 Hip - 46.7 gorund snow

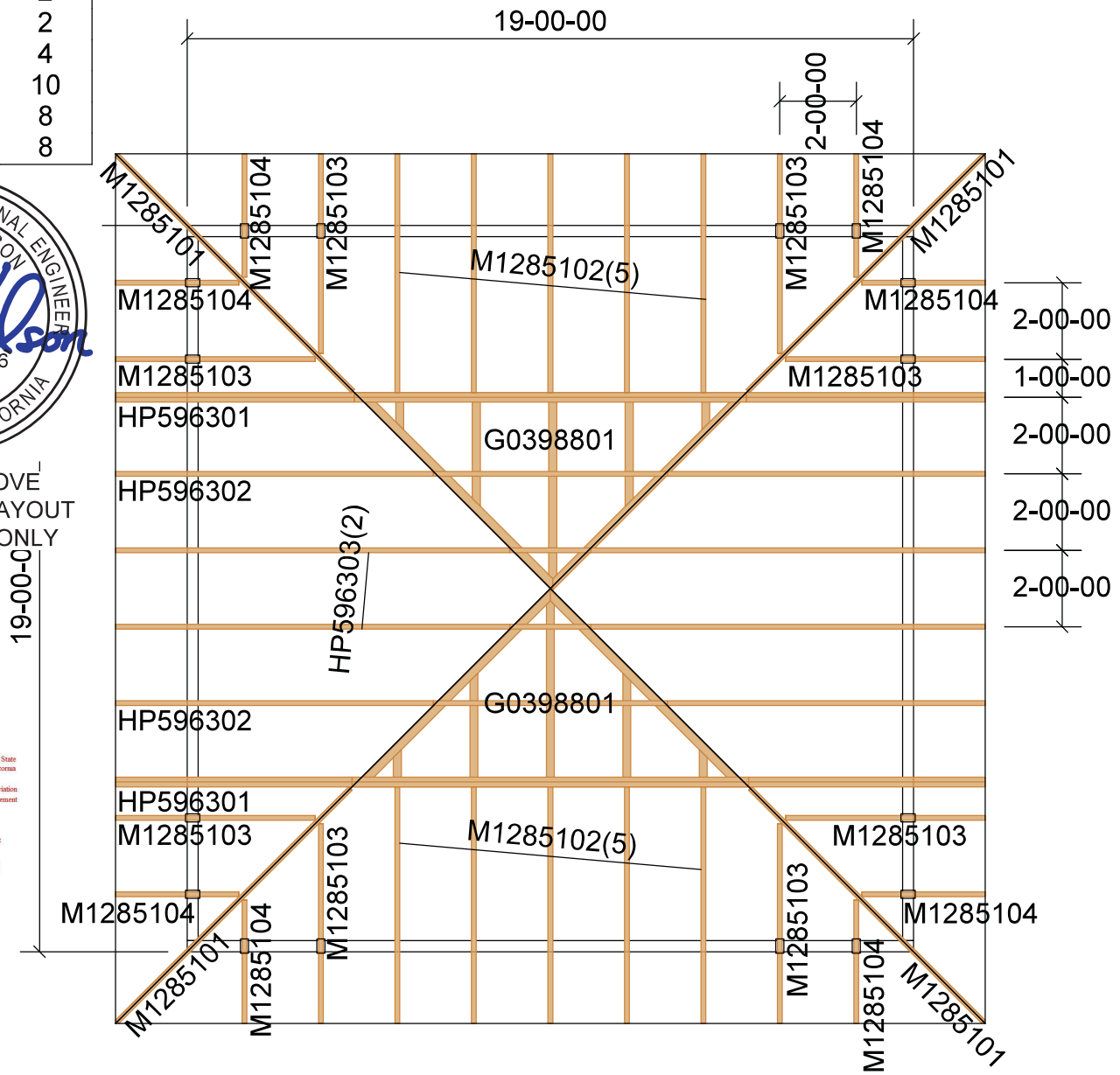
UFP Industries Inc., Grand Rapids, MI 49525, Regan Craig

28

Truss List	
Truss	Qty
G0398801	2
HP596301	4
HP596302	2
HP596303	2
M1285101	4
M1285102	10
M1285103	8
M1285104	8

REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA

STAMP ABOVE APPLIES TO LAYOUT GEOMETRY ONLY



Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

Warning - Verify design parameters and READ NOTES

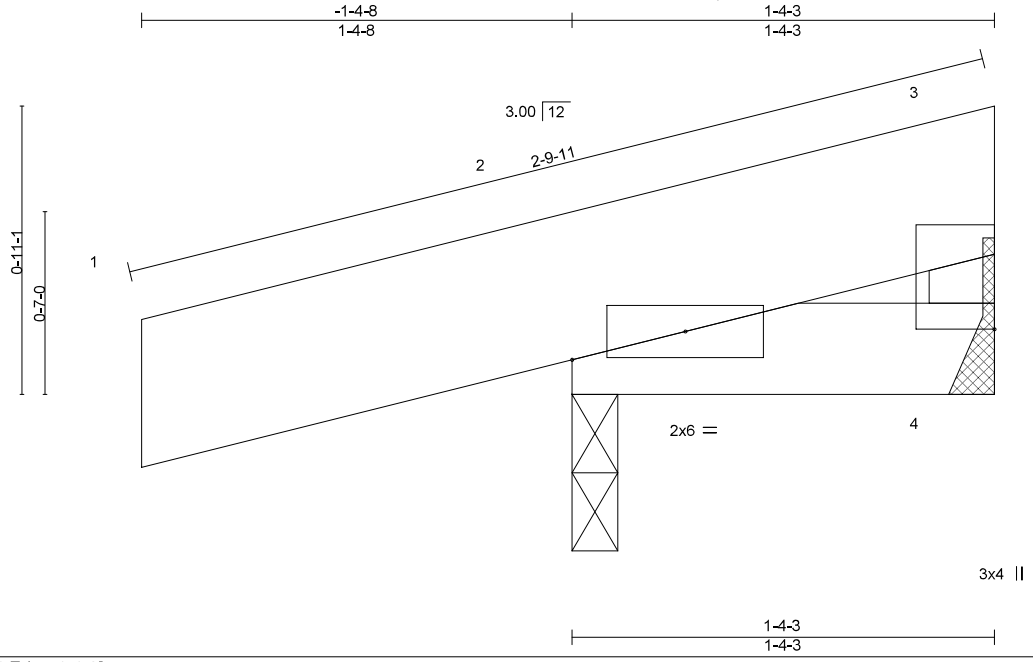
UFP Industries, Inc. 2801 East Beltline Rd, NE
PHONE (616)-364-6161 Grand Rapids, MI 49525

This is a TRUSS PLACEMENT PLAN to accurately locate pre-fabricated trusses in a building. This is not a structural framing plan and should not be construed as such. The Owner/Builder shall contract with a licensed design professional to prepare complete structural framing plans for the building. This layout is used to ensure accurate truss placement in accordance with the dimensional requirements of the building. This document does not consider building structural bracing requirements, shear walls, beams, columns or other structural elements that can be critical to the performance of the structure. Any reference to structural elements other than pre-fabricated trusses is purely incidental and is incorporated for clarity only. Refer to the structural framing plans prepared by the Building Engineer of Record for complete framing information. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on this placement drawing. The building designer must incorporate the truss manufacturer's note on type and location of permanent web member reinforcemtn requirements in the truss design with full analysis of the overall structural design. For guideance regarding bracing, consult BCSI 1-03, "Guide to Good Practice for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses" available from the WTCA/TPI, 583 D'Onifrio Drive; Madison, WI 53179. It is the responsibility of the General Contractor/Superintendent to verify that the provided truss layout matches final intended construction plans, loading conditions and use. If they do not, it is the responsibility of the General Contractor/Superintendent to provide prints /plans containing the latest specifications and designs. UFP Industries (UFP) will not be responsibile for print/plan changes by others after final approval of shop drawings, nor is UFP responsible for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED DESIGN PROFESSIONAL DESIGNATED BY UFP. UFP WILL NOT BE HELD RESPONSIBLE FOR ANY MODIFICATIONS OR "CHARGE BACKS" DONE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM UFP.

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	M1285104	MONO TRUSS	1	1	I69115003
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:22 2024 Page 1

ID:XizNu5bc0WGljYG0hlZCHEz2Mf?-eRSSo7vV05BlwGlJFn0pJEvAZSSXUcvplZhAx7yQBPx



Scale = 1:7.4

29

Plate Offsets (X,Y)-- [4:Edge,1-4-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	32.7	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.00	2	>999	240	MT20	185/144
(Ground Snow=46.7)		Lumber DOL	1.00	BC	0.01	Vert(CT)	-0.00	2	>999	180		
TCDL	14.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD 2x4 HF No.2 or 2x4 SPF No.2
WEBS 2x3 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-4-3 oc purlins, except end verticals.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 4=Mechanical
Max Horz 2=42(LC 8)
Max Uplift 2=-165(LC 8), 4=-101(LC 18)
Max Grav 2=369(LC 18), 4=21(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES- (10-12)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=165, 4=101.
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

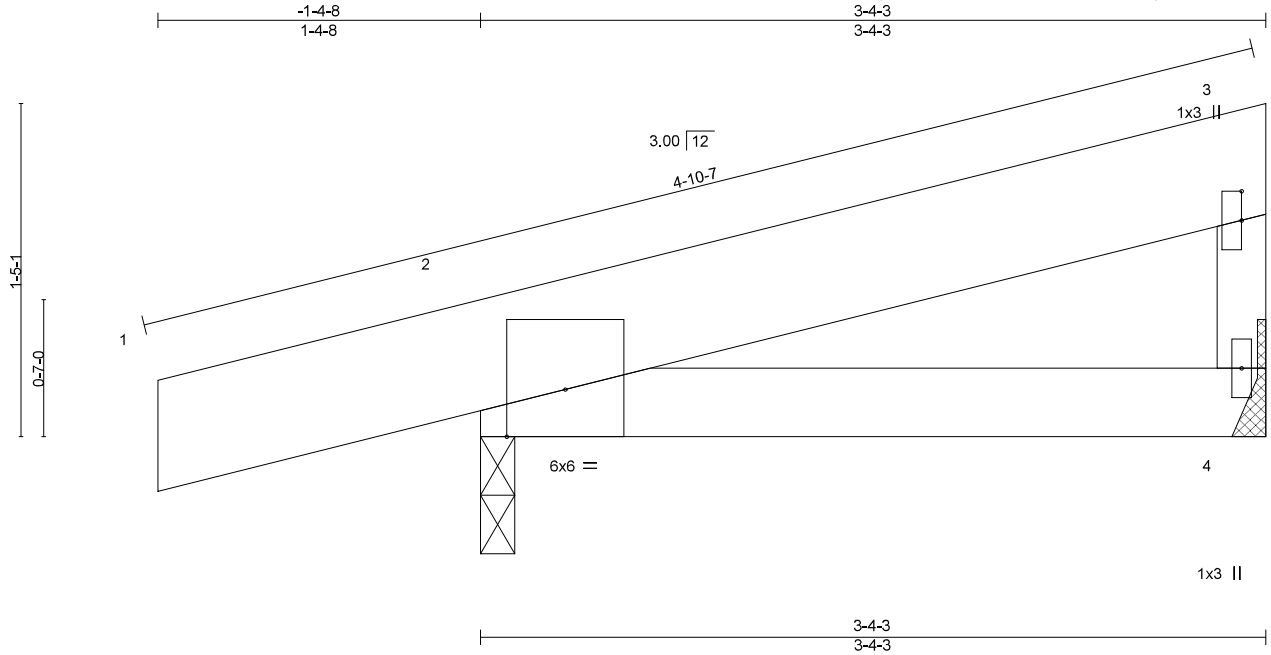
October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	M1285103	MONO TRUSS	1	1	I69115002
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:21 2024 Page 1

ID:XizNu5bc0WGIjYG0hIZCHEz2Mf?-AEu4bnvtFn3Rl6j7h3Vam0N?T266l9ffWvxcPhyQBPy



Scale = 1:9.8

30

Plate Offsets (X,Y)-- [3:0-1-8,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	32.7	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.01	2-4	>999	240	MT20	185/144
(Ground Snow=46.7)		Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	2-4	>999	180		
TCDL	14.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD 2x4 HF No.2 or 2x4 SPF No.2
WEBS 2x3 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-3 oc purlins, except end verticals.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 4=Mechanical
Max Horz 2=71(LC 8)
Max Uplift 2=-175(LC 8), 4=-62(LC 12)
Max Grav 2=441(LC 19), 4=174(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES- (10-12)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=175.
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

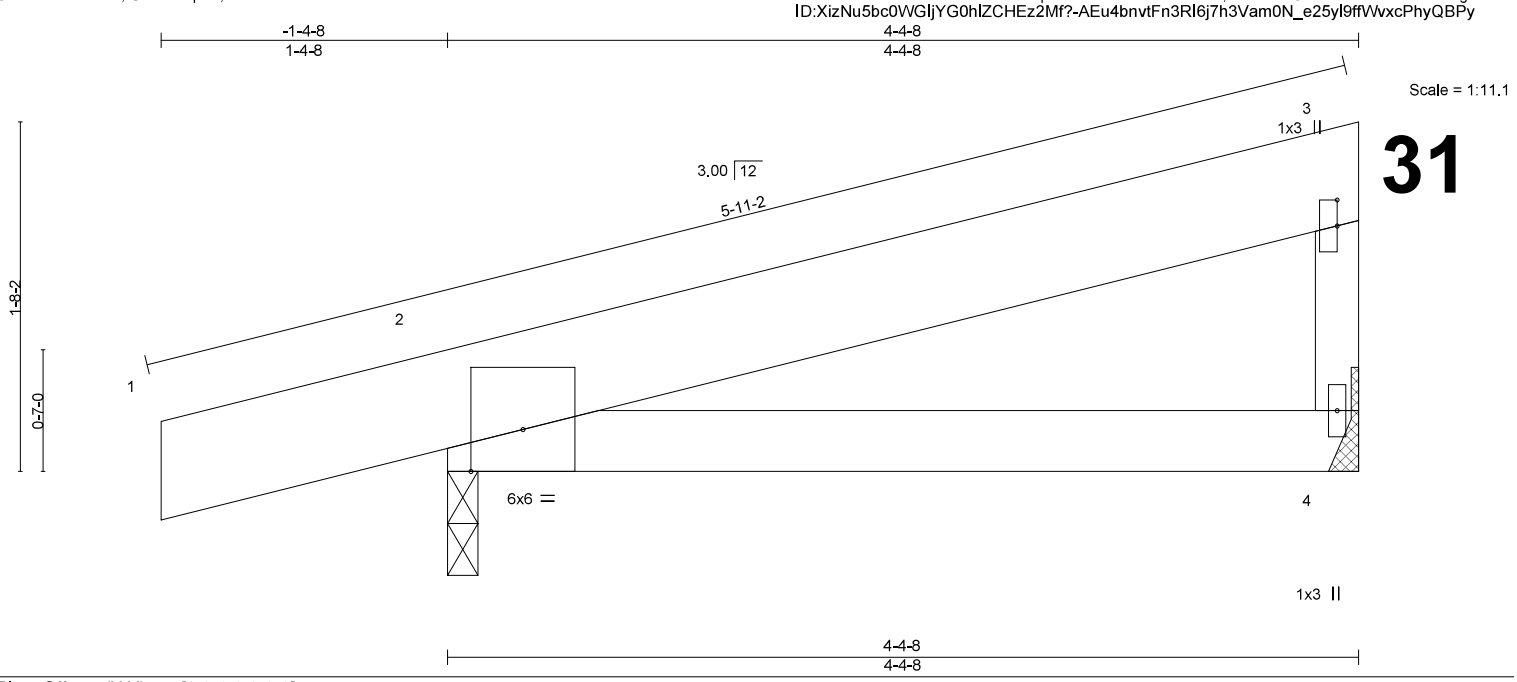
October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	M1285102	MONO TRUSS	1	1	I69115001
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:21 2024 Page 1

ID:XizNu5bc0WGIjYG0hlZCHEz2Mf?-AEu4bnvtFn3Rl6j7h3Vam0N_e25yl9ffWvxcPhyQBPy



31

Plate Offsets (X,Y)-- [3:0-1-8,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	32.7	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.02	2-4	>999	240	MT20	185/144
(Ground Snow=46.7)		Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.03	2-4	>999	180		
TCDL	11.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD 2x4 HF No.2 or 2x4 SPF No.2
WEBS 2x3 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 4=Mechanical
Max Horz 2=87(LC 8)
Max Uplift 2=-189(LC 8), 4=-88(LC 12)
Max Grav 2=482(LC 19), 4=246(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES- (10-12)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=189.
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP: 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233	I69115000
117380	M1285101	MONO TRUSS	1	1	Job Reference (optional)	

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:20 2024 Page 1

ID:XizNu5bc0WGljYG0hlZCHEz2Mf?-i2KiNRuFUTxagy8x7M_LEpqmsedb0euWlFC3tFyQBPz

32

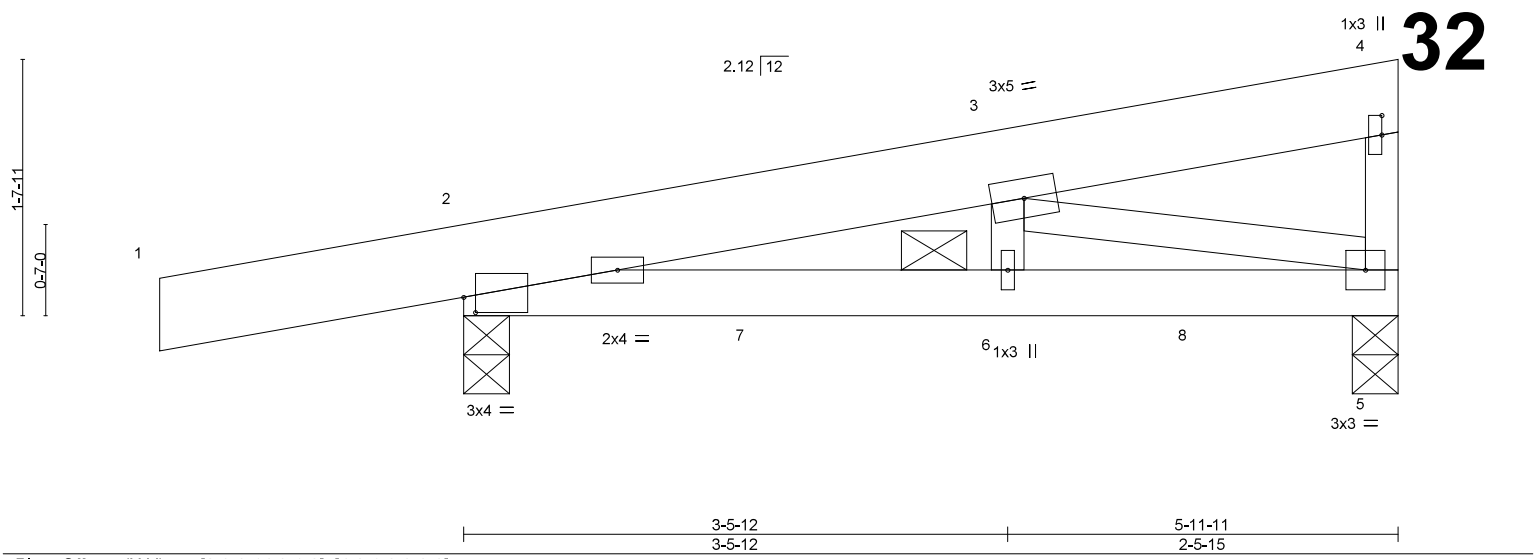


Plate Offsets (X,Y)-- [2:0-0-14,0-1-3], [4:0-1-8,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	32.7	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.03	5-6	>999	240	MT20	185/144
(Ground Snow=46.7)		Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.04	5-6	>999	180		
TCDL	14.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD	2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD	2x4 HF No.2 or 2x4 SPF No.2
WEBS	2x3 SPF Stud

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-11 oc purlins, except end verticals.
BOT CHORD	3-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=85(LC 6)
Max Uplift 2=-310(LC 6), 5=-226(LC 10)
Max Grav 2=744(LC 17), 5=591(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-793/244
BOT CHORD	2-6=-275/698, 5-6=-275/698
WEBS	3-5=-738/291

NOTES- (10-12)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=310, 5=226.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 32 lb down and 15 lb up at 1-10-14, 32 lb down and 15 lb up at 1-10-14, and 162 lb down and 75 lb up at 4-8-13, and 162 lb down and 75 lb up at 4-8-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-5=-10, 1-4=-93

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=-323(F=-162, B=-162)

33

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	HP596303	HIP	1	1	I69114997
					Job Reference (optional)

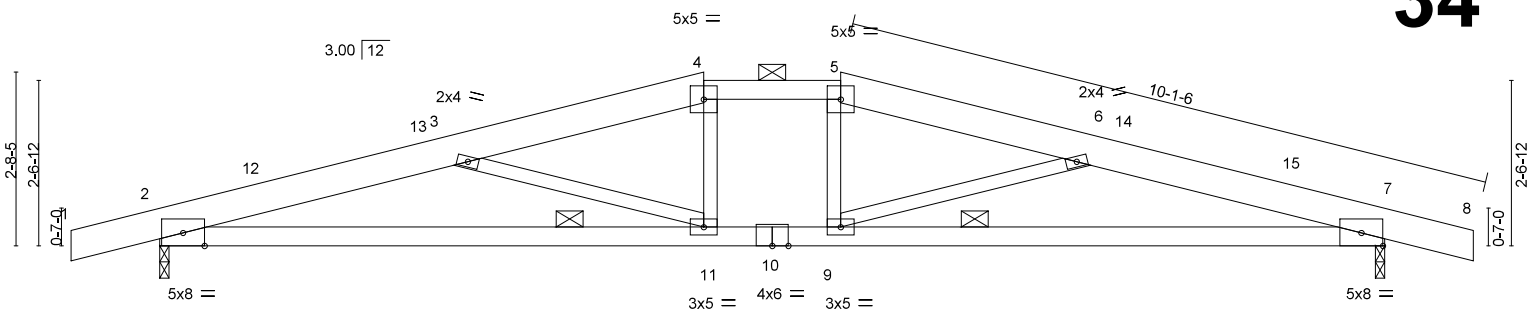
UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 14:43:10 2024 Page 1

ID:XizNu5bc0WGljYG0hlZCHEz2Mf?-_J0Q8DV1Db409lpLekSBn?JriPbi_90azUJUMUyQAKl

-1-4-8	4-9-6	8-5-4	10-6-12	14-2-10	19-0-0	20-4-8
1-4-8	4-9-6	3-7-15	2-1-8	3-7-15	4-9-6	1-4-8

Scale = 1:35.7

34



8-5-4	10-6-12	19-0-0
8-5-4	2-1-8	8-5-4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	32.7	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.22	2-11	>999	240	MT20	185/144
(Ground Snow=46.7)		Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.33	2-11	>692	180		
TCDL	14.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-P								
BCDL	5.0										Weight: 71 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2 *Except* 4-5: 2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except 2-0-0 oc purlins (3-6-14 max.): 4-5.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12 (req. 0-1-14), 7=0-1-12 (req. 0-1-14)
Max Horz 2=-62(LC 17)
Max Uplift 2=-447(LC 8), 7=-447(LC 9)
Max Grav 2=1458(LC 34), 7=1458(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3236/1358, 3-4=-2479/1103, 4-5=-2370/1107, 5-6=-2479/1103, 6-7=-3236/1358
BOT CHORD 2-11=-1222/3011, 9-11=-925/2370, 7-9=-1222/3011
WEBS 3-11=-688/336, 4-11=-61/271, 5-9=-61/271, 6-9=-688/338

NOTES- (11-13)
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 4-2-5, Exterior(2R) 4-2-5 to 14-9-11, Interior(1) 14-9-11 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) WARNING: Required bearing size at joint(s) 2, 7 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 447 lb uplift at joint 2 and 447 lb uplift at joint 7.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	HP596302	HIP	1	1	I69114996
					Job Reference (optional)

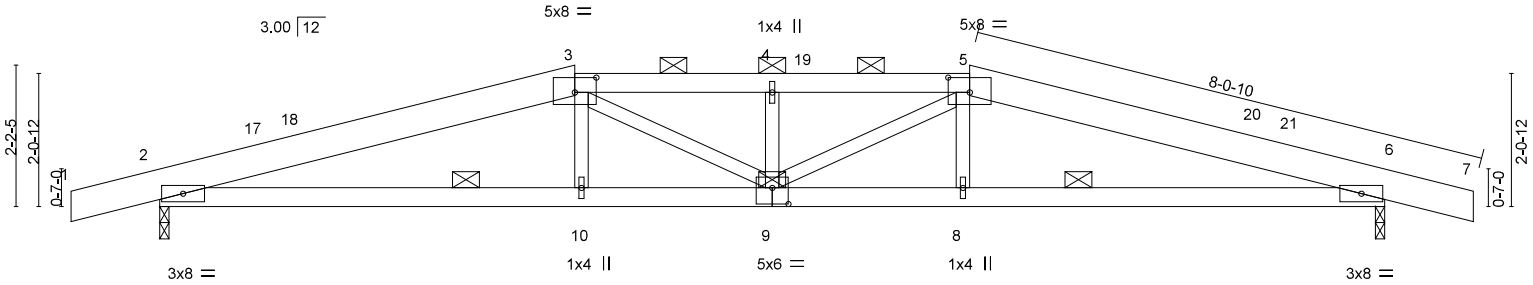
UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 14:41:38 2024 Page 1

ID:XizNu5bc0WGIjYG0hlZCHEz2Mf?-hcSeqlOKuKU36cmfFPpc2cV36JBOQYz1p91c8pyQAMB

-1-4-8	6-5-4	9-6-0	12-6-12	19-0-0	20-4-8
1-4-8	6-5-4	3-0-12	3-0-12	6-5-4	1-4-8

Scale = 1:35.7

35



6-5-4	9-6-0	12-6-12	19-0-0
6-5-4	3-0-12	3-0-12	6-5-4

Plate Offsets (X,Y)-- [3:0-4-0,0-2-12], [5:0-4-0,0-2-12], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	32.7	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.17	9	>999	240	MT20	185/144
(Ground Snow=46.7)		Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.25	9	>900	180		
TCDL	14.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-MP							Weight: 67 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2 *Except* 3-5: 2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except 2-0-0 oc purlins (2-11-12 max.): 3-5.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 6=0-1-12
Max Horz 2=50(LC 8)
Max Uplift 2=-462(LC 8), 6=-462(LC 9)
Max Grav 2=1286(LC 34), 6=1286(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2758/1382, 3-4=-2828/1570, 4-5=-2828/1570, 5-6=-2758/1382
BOT CHORD 2-10=-1218/2591, 9-10=-1216/2594, 8-9=-1216/2594, 6-8=-1218/2591
WEBS 4-9=-481/240, 3-9=-219/588, 5-9=-219/588

NOTES- (11-13)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 2-2-5, Exterior(2R) 2-2-5 to 16-9-11, Interior(1) 16-9-11 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 6.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 462 lb uplift at joint 2 and 462 lb uplift at joint 6.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	HP596301	HIP GIRDER	1	2	I69114995
					Job Reference (optional)

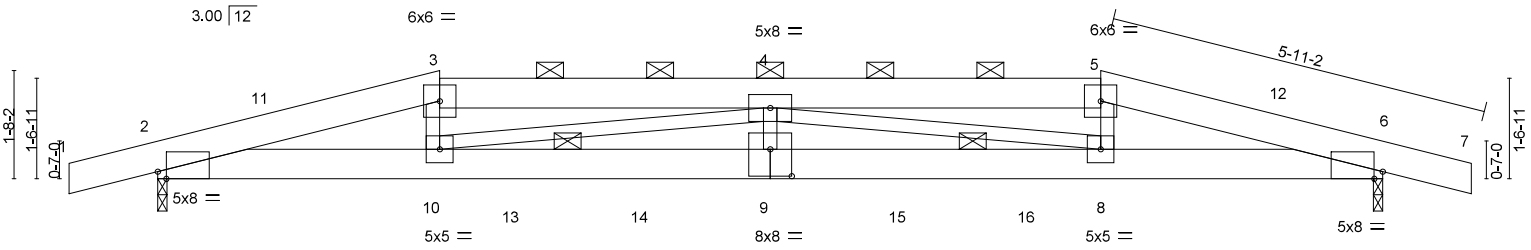
UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:14 2024 Page 1

ID:XizNu5bc0WGljYG0hlZCHEz2Mf?-tuzR7OpUvdBQy1hnn5tw_Yai2DaWcpodvKllgbyQBQ3

-1-4-8	4-4-8	9-6-0	14-7-8	19-0-0	20-4-8
1-4-8	4-4-8	5-1-8	5-1-8	4-4-8	1-4-8

Scale = 1:35.7

36



4-4-8	9-6-0	14-7-8	19-0-0
4-4-8	5-1-8	5-1-8	4-4-8

Plate Offsets (X,Y)-- [2:0-1-9,Edge], [6:0-1-9,Edge], [9:0-4-0,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	32.7	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.36	9	>621	240	MT20	185/144
(Ground Snow=46.7)		Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.49	9	>459	180		
TCDL	14.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-P							Weight: 170 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD	2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD	2x6 SPF 2100F 1.8E
WEBS	2x3 SPF Stud

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-2-1 oc purlins, except 2-0-0 oc purlins (4-8-15 max.): 3-5.
BOT CHORD	6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 6=0-1-12
Max Horz 2=35(LC 49)
Max Uplift 2=-948(LC 6), 6=-948(LC 7)
Max Grav 2=2432(LC 17), 6=2432(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7869/2856, 3-4=-7404/2733, 4-5=-7404/2733, 5-6=-7869/2857
BOT CHORD 2-10=-2732/7539, 9-10=-3646/10235, 8-9=-3646/10235, 6-8=-2697/7539
WEBS 3-10=-564/1614, 4-10=-2934/1052, 4-9=-252/598, 4-8=-2934/1051, 5-8=-563/1614

NOTES- (14-16)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00, Lu=50-0-0
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 6.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=948, 6=948.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 577 lb down and 240 lb up at 4-3-7, 236 lb down and 98 lb up at 5-6-0, 236 lb down and 98 lb up at 7-6-0, 236 lb down and 98 lb up at 9-6-0, 236 lb down and 98 lb up at 11-6-0, and 236 lb down and 98 lb up at 13-6-0, and 577 lb down and 240 lb up at 14-8-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STATE OF CALIFORNIA

October 29,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

14) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
15) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
16) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

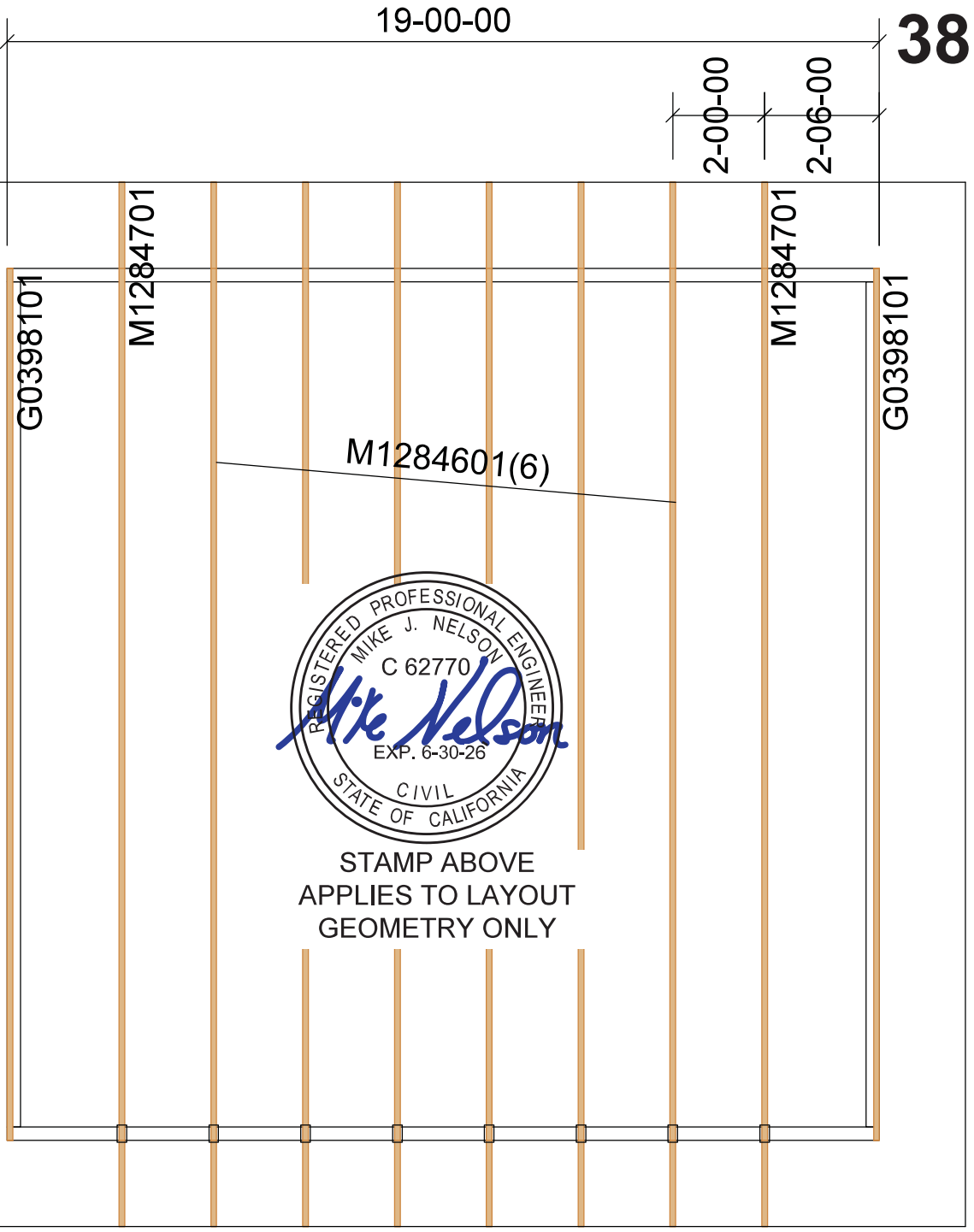
1) Dead + Snow (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-3=-93, 3-5=-93, 5-7=-93, 2-6=-10
   Concentrated Loads (lb)
   Vert: 10=-577 9=-236(F) 8=-577 13=-236(F) 14=-236(F) 15=-236(F) 16=-236(F)

37

JOB	TRUSS	TRUSS TYPE	QTY	CUSTOMER
117380	L0310901	Truss Placement Plan	1	Boxabl 233 Mono - 46.7 ground snow

UFP Industries Inc., Grand Rapids, MI 49525, Regan Craig

Truss List	
Truss	Qty
G0398101	2
M1284601	6
M1284701	2



REGISTERED PROFESSIONAL ENGINEER
MIKE J. NELSON
C 62770
EXP. 6-30-26
CIVIL
STATE OF CALIFORNIA

STAMP ABOVE APPLIES TO LAYOUT GEOMETRY ONLY

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. **MAC-FBH 10153**
By: Mohsen Anis
Approval Date: **5/26/2025**
Expiration Date: **1/11/2028**

Warning - Verify design parameters and READ NOTES

UFP Industries, Inc. 2801 East Beltline Rd, NE
PHONE (616)-364-6161 Grand Rapids, MI 49525

This is a TRUSS PLACEMENT PLAN to accurately locate pre-fabricated trusses in a building. This is not a structural framing plan and should not be construed as such. The Owner/Builder shall contract with a licensed design professional to prepare complete structural framing plans for the building. This layout is used to ensure accurate truss placement in accordance with the dimensional requirements of the building. This document does not consider building structural bracing requirements, shear walls, beams, columns or other structural elements that can be critical to the performance of the structure. Any reference to structural elements other than pre-fabricated trusses is purely incidental and is incorporated for clarity only. Refer to the structural framing plans prepared by the Building Engineer of Record for complete framing information. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on this placement drawing. The building designer must incorporate the truss manufacturer's note on type and location of permanent web member reinforcemtn requirements in the truss design with full analysis of the overall structural design. For guideance regarding bracing, consult BCSI 1-03, "Guide to Good Practice for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses" available from the WTCA/TPI, 583 D'Onifrio Drive; Madison, WI 53179. It is the responsibility of the General Contractor/Superintendent to verify that the provided truss layout matches final intended construction plans, loading conditions and use. If they do not, it is the responsibility of the General Contractor/Superintendent to provide prints /plans containing the latest specifications and designs. UFP Industries (UFP) will not be responsible for print/plan changes by others after final approval of shop drawings, nor is UFP responsible for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED DESIGN PROFESSIONAL DESIGNATED BY UFP. UFP WILL NOT BE HELD RESPONSIBLE FOR ANY MODIFICATIONS OR "CHARGE BACKS" DONE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM UFP.

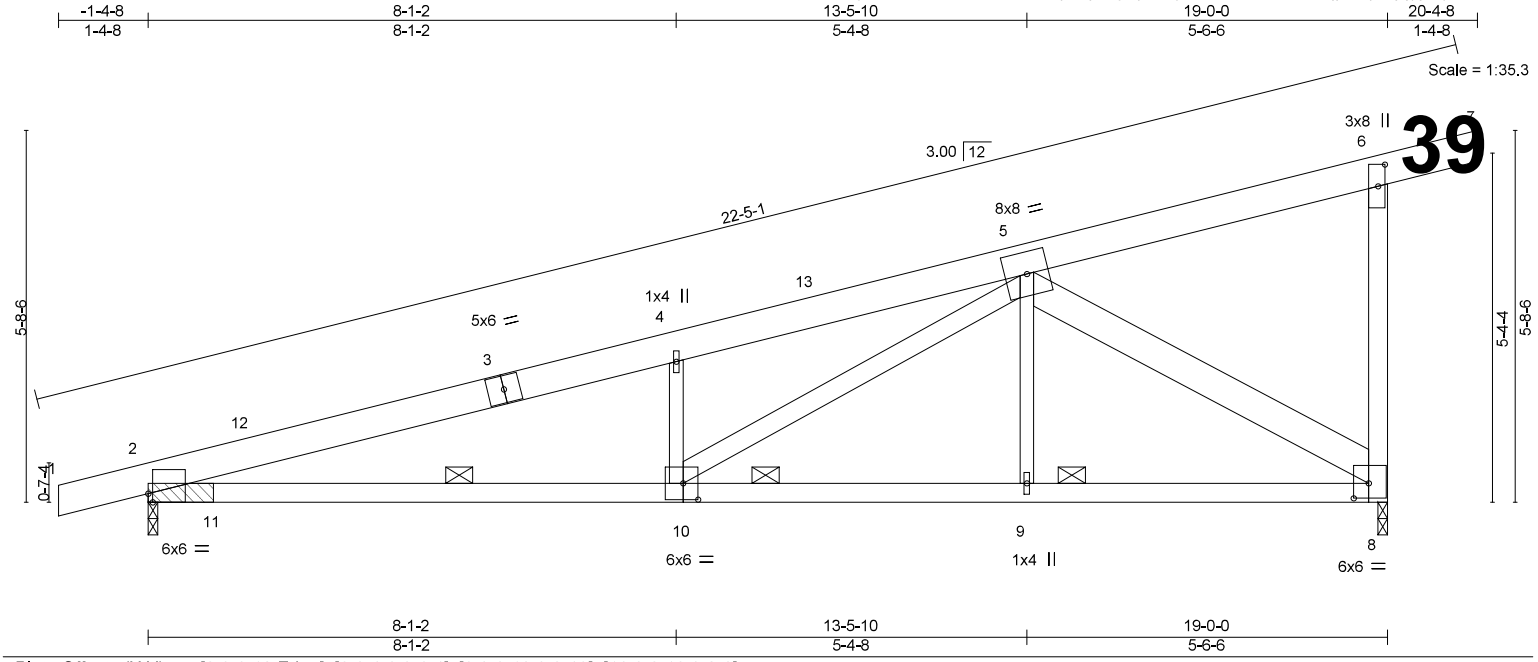
™

®

Job	Truss	Truss Type	Qty	Ply	Boxabl 233	I69114999
117380	M1284701	MONO TRUSS	1	1	Job Reference (optional)	

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:18 2024 Page 1

ID:7gv7HclJbc4vVF09EPQRVAyvRye-IgDyzIs?yshsRe_Y0xxt8OIlQqyfYbyDqxjypMyQBQ?



39

Plate Offsets (X,Y)-- [2:0-0-13,Edge], [6:0-4-0,0-1-4], [8:0-2-12,0-2-12], [10:0-2-12,0-3-0]

SPACING-: 2-3-0		**SPACING-:** 1-9-0		**SPACING-** 2-3-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)		**LOADING** (psf)		Plate Grip DOL 1.00		TC 0.93		Vert(LL)	-0.15	2-10	>999	240	MT20	185/144
TCLL	38.1	TCLL	49.0	Lumber DOL 1.00		BC 0.58		Vert(CT)	-0.25	2-10	>901	180		
(Ground Snow=54.5)		(Ground Snow=70.0)		Rep Stress Incr NO		WB 0.89		Horz(CT)	0.06	8	n/a	n/a		
TCDL	14.0	TCDL	18.0	Code IBC2021/TPI2014		Matrix-SH							Weight: 92 lb	
BCLL	0.0 *	BCLL	0.0 *										FT = 20%	
BCDL	5.0	BCDL	6.4											

LUMBER-

TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
8-10: 2x4 HF No.2 or 2x4 SPF No.2
WEBS 2x4 HF No.2 or 2x4 SPF No.2 *Except*
4-10,5-9: 2x3 SPF Stud, 5-8: 2x6 HF No.2 or 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD 4-9-0 oc bracing.

REACTIONS. (size) 2=(0-1-12 + bearing block) (req. 0-1-14), 8=0-1-12
Max Horz 2=376(LC 9)
Max Uplift 2=-637(LC 8), 8=-648(LC 12)
Max Grav 2=1462(LC 19), 8=1756(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3140/1628, 4-5=-3040/1750, 6-8=-660/405
BOT CHORD 2-10=-1531/2902, 9-10=-685/1654, 8-9=-685/1656
WEBS 4-10=-745/577, 5-10=-996/1475, 5-8=-1959/1044

NOTES- (11-13)

1) 2x4 SPF 2100F 1.8E bearing block 12" long at jt. 2 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
2) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @27in o.c.; TCDL=2.7psf; BCDL=1.3psf; (Alt. 154mph @21in o.c.; TCDL=3.5psf; BCDL=1.7psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-4-8 to 1-7-8, Exterior(2R) 1-7-8 to 20-4-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pg= 54.5 psf; Pf=38.1 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 38.1 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=637, 8=648.
11) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss complies with CBC 2022 Section 2303.4.

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

LOAD CASE(S) Standard

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	M1284601	MONO TRUSS	1	1	I69114998
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:17 2024 Page 1

ID:7gv7HclJbc4vVF09EPQRVAyvRye-HTfZlQsNCYZ?pUPMSDQdcACClRY2pAd4clzPHwyQBQ0

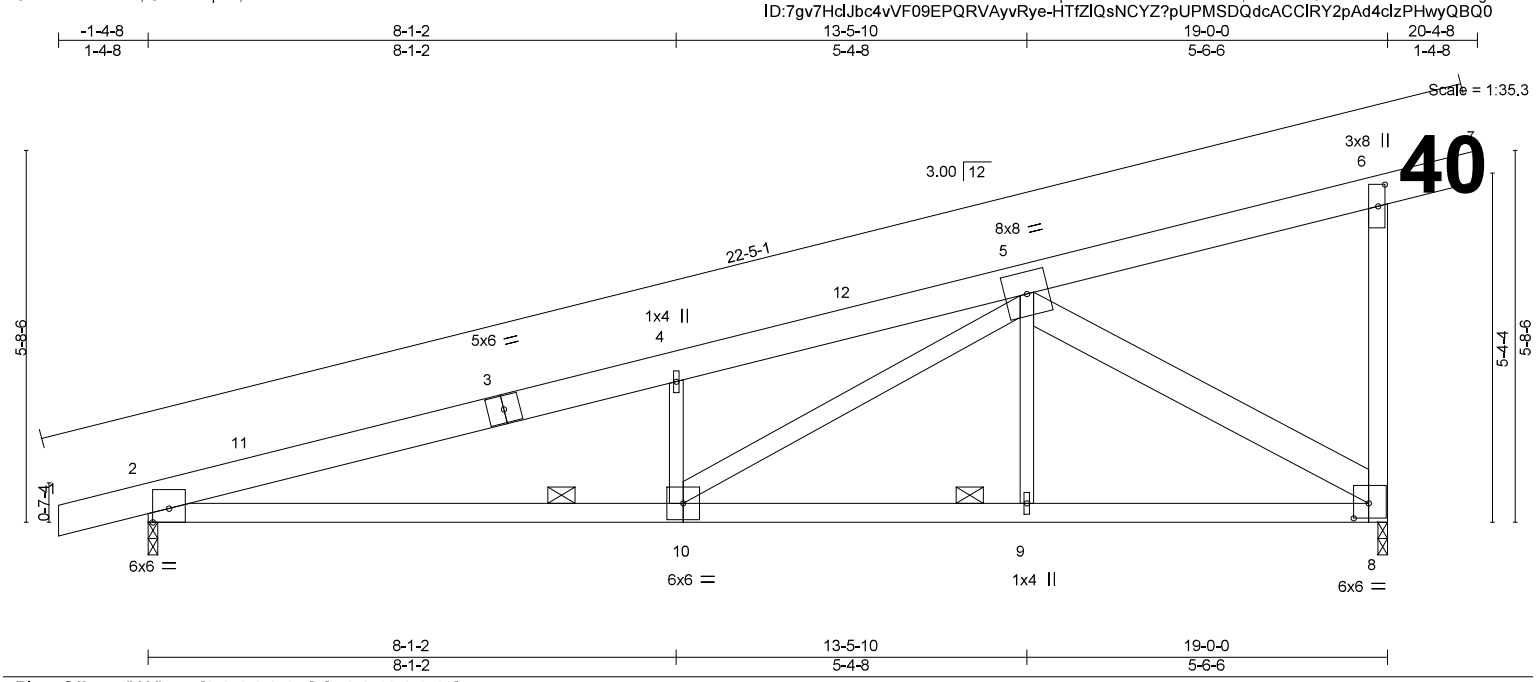


Plate Offsets (X,Y)-- [6:0-4-0,0-1-4], [8:0-2-12,0-2-12]

SPACING-: 2-0-0	SPACING-: 1-4-0	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
LOADING (psf)	LOADING (psf)	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.11 2-10 >999 240	MT20 185/144
TCLL 32.7	TCLL 49.0	Lumber DOL 1.00	BC 0.86	Vert(CT) -0.20 2-10 >999 180	
(Ground Snow=46.7)	(Ground Snow=70.1)	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.05 8 n/a n/a	
TCDL 14.0	TCDL 21.0	Code IBC2021/TPI2014	Matrix-SH		Weight: 91 lb
BCLL 0.0 *	BCLL 0.0 *				FT = 20%
BCDL 5.0	BCDL 7.5				

LUMBER-

TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
8-10: 2x4 HF No.2 or 2x4 SPF No.2
WEBS 2x4 HF No.2 or 2x4 SPF No.2 *Except*
4-10,5-9: 2x3 SPF Stud, 5-8: 2x6 HF No.2 or 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins, except end verticals.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 8=0-1-12
Max Horz 2=334(LC 9)
Max Uplift 2=-566(LC 8), 8=-576(LC 12)
Max Grav 2=1165(LC 19), 8=1398(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2489/1449, 4-5=-2407/1557, 6-8=-528/360
BOT CHORD 2-10=-1359/2300, 9-10=-607/1309, 8-9=-607/1310
WEBS 4-10=-587/513, 5-10=-885/1179, 5-8=-1550/928

NOTES- (10-12)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @24in o.c.; TCDL=2.7psf; BCDL=1.3psf; (Alt. 167mph @16in o.c.; TCDL=4.0psf; BCDL=1.9psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-4-8 to 1-7-8, Exterior(2R) 1-7-8 to 20-4-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 8.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=566, 8=576.
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

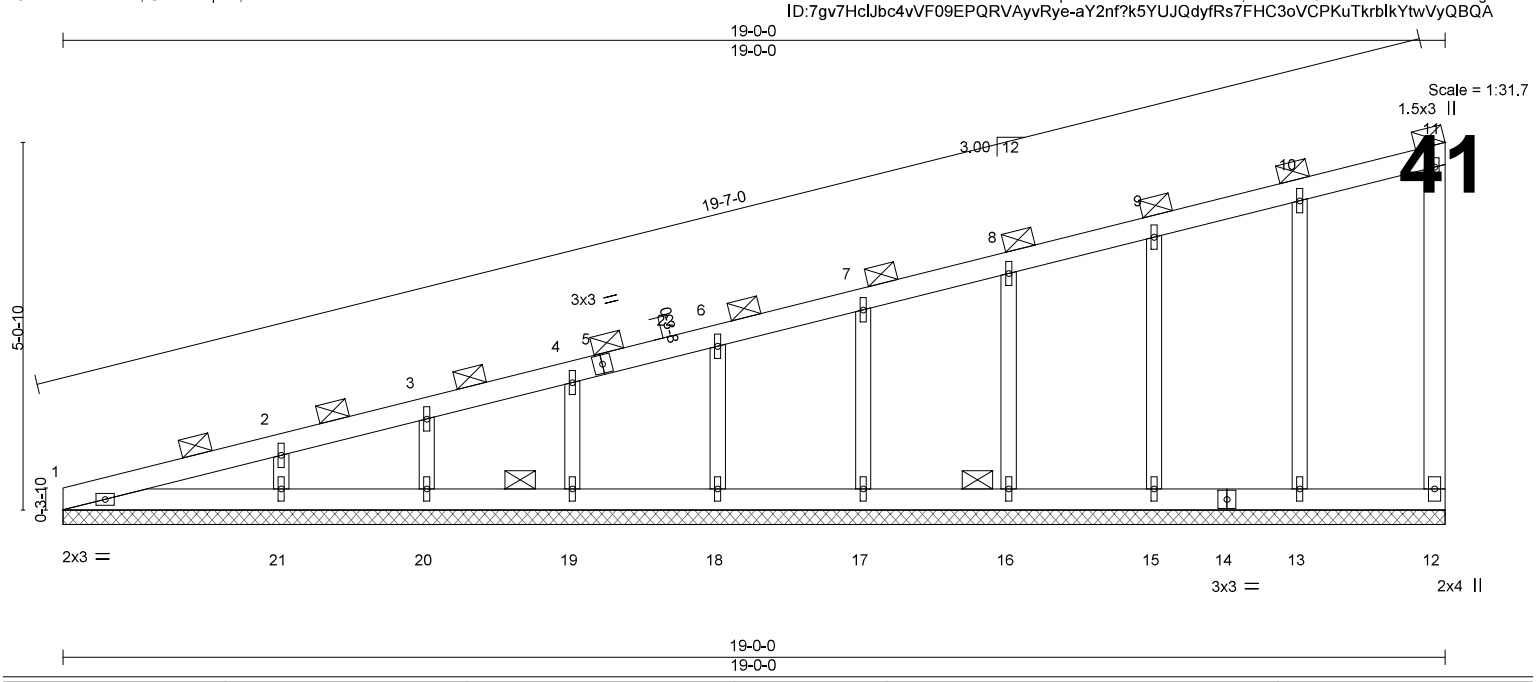
Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	G0398101	GABLE	1	1	I69114991
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:07 2024 Page 1
ID:7gv7HclJbc4vVF09EPQRVAyvRye-aY2nf?k5YUJQdyfRs7FHC3oVCPKuTkrblkYtwVyQBQA



19-0-0
19-0-0

SPACING-: 3-3-0	SPACING-: 3-1-0	SPACING- 3-3-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
LOADING (psf)	LOADING (psf)	Plate Grip DOL 1.00	TC 0.61	Vert(LL) n/a - n/a 999	MT20 185/144
TCLL 46.5	TCLL 49.0	Lumber DOL 1.00	BC 0.08	Vert(CT) n/a - n/a 999	
(Ground Snow=66.4)	(Ground Snow=70.0)	Rep Stress Incr NO	WB 0.34	Horz(CT) 0.01 12 n/a n/a	
TCDL 14.0	TCDL 14.8	Code IBC2021/TPI2014	Matrix-P		Weight: 65 lb
BCLL 0.0 *	BCLL 0.0 *				FT = 20%
BCDL 5.0	BCDL 5.3				

LUMBER-
TOP CHORD 2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD 2x4 HF No.2 or 2x4 SPF No.2
WEBS 2x4 HF No.2 or 2x4 SPF No.2
OTHERS 2x3 SPF Stud

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 6-4-0 oc bracing.

REACTIONS. All bearings 19-0-0.
(lb) - Max Horz 1=479(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12 except 13=-164(LC 12), 15=-155(LC 8), 16=-155(LC 12), 17=-156(LC 8), 18=-154(LC 12), 19=-163(LC 8), 20=-126(LC 12), 21=-240(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 12 except 1=261(LC 18), 13=604(LC 18), 15=567(LC 18), 16=568(LC 18), 17=576(LC 18), 18=529(LC 18), 19=446(LC 1), 20=344(LC 18), 21=657(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-382/405, 2-3=-334/363, 3-4=-306/351, 4-6=-273/330, 6-7=-253/312, 7-8=-235/293, 8-9=-217/274, 9-10=-200/255, 10-11=-182/262
BOT CHORD 1-21=-158/275, 20-21=-158/275, 19-20=-158/275, 18-19=-158/275, 17-18=-158/275, 16-17=-158/275, 15-16=-158/275, 13-15=-158/275, 12-13=-158/275
WEBS 10-13=-568/247, 9-15=-535/235, 8-16=-535/234, 7-17=-544/235, 6-18=-497/232, 4-19=-412/246, 3-20=-318/189, 2-21=-606/362

NOTES- (12-14)
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @39in o.c.; TCDL=5.1psf; BCDL=2.5psf; (Alt. 140mph @37in o.c.; TCDL=5.4psf; BCDL=2.6psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 15-10-4, Corner(3E) 15-10-4 to 18-10-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pg= 66.4 psf; Pf=46.5 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12 except (jt=lb) 13=164, 15=155, 16=155, 17=156, 18=154, 19=163, 20=126, 21=240.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
14) This truss complies with CBC 2022 Section 2303.4.

Continued on page 2

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP: 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

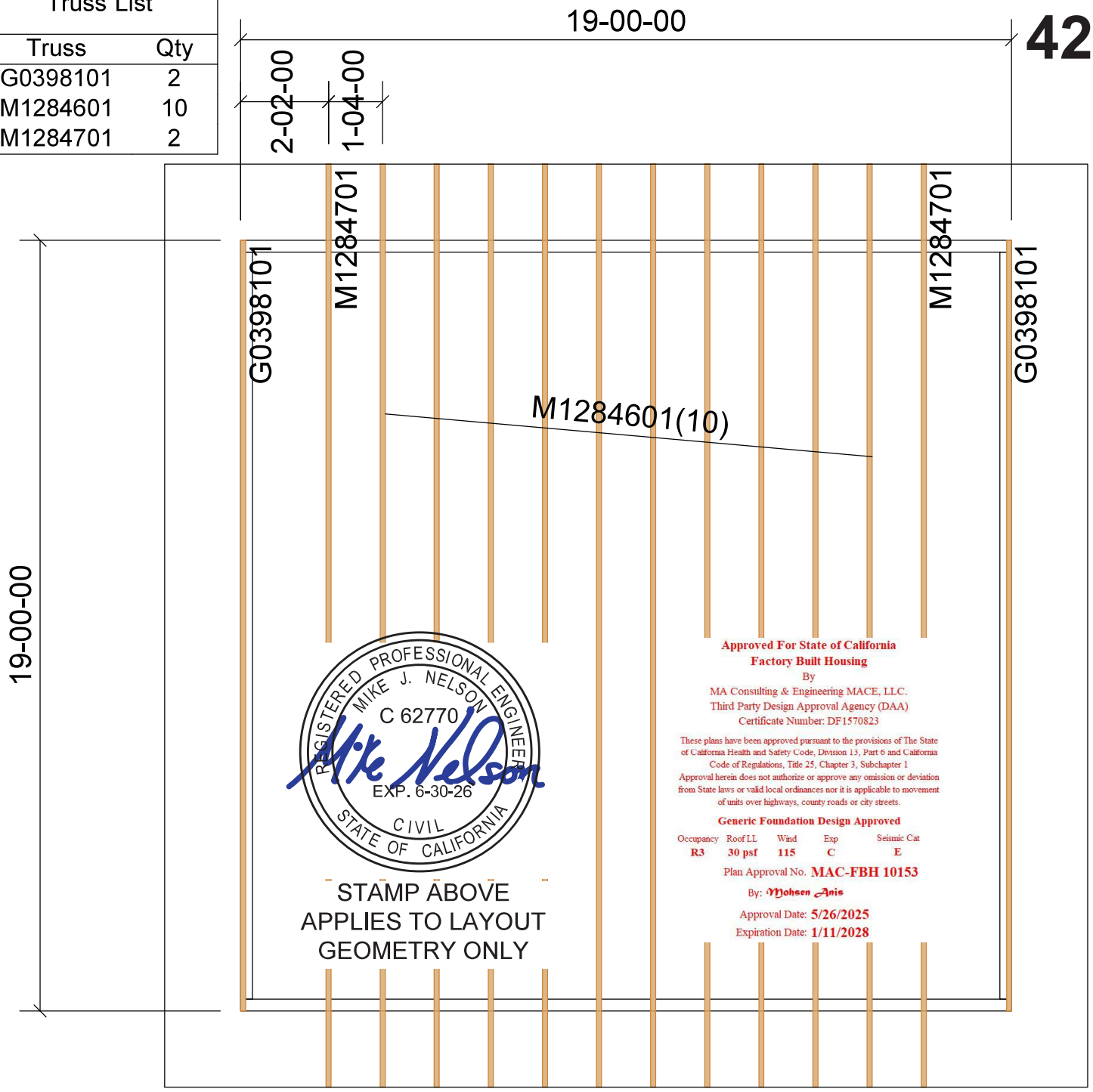
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

JOB	TRUSS	TRUSS TYPE	QTY	CUSTOMER
117380	L0310902	Truss Placement Plan	1	Boxabl 233 Mono - 70 ground snow

UFP Industries Inc., Grand Rapids, MI 49525, Regan Craig

Truss List	
Truss	Qty
G0398101	2
M1284601	10
M1284701	2

42



Warning - Verify design parameters and READ NOTES

UFP Industries, Inc. 2801 East Beltline Rd, NE
PHONE (616)-364-6161 Grand Rapids, MI 49525

This is a TRUSS PLACEMENT PLAN to accurately locate pre-fabricated trusses in a building. This is not a structural framing plan and should not be construed as such. The Owner/Builder shall contract with a licensed design professional to prepare complete structural framing plans for the building. This layout is used to ensure accurate truss placement in accordance with the dimensional requirements of the building. This document does not consider building structural bracing requirements, shear walls, beams, columns or other structural elements that can be critical to the performance of the structure. Any reference to structural elements other than pre-fabricated trusses is purely incidental and is incorporated for clarity only. Refer to the structural framing plans prepared by the Building Engineer of Record for complete framing information. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on this placement drawing. The building designer must incorporate the truss manufacturer's note on type and location of permanent web member reinforcemtn requirements in the truss design with full analysis of the overall structural design. For guideance regarding bracing, consult BCSI 1-03, "Guide to Good Practice for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses" available from the WTCA/TPI, 583 D'Onifrio Drive; Madison, WI 53179. It is the responsibility of the General Contractor/Superintendent to verify that the provided truss layout matches final intended construction plans, loading conditions and use. If they do not, it is the responsibility of the General Contractor/Superintendent to provide prints /plans containing the latest specifications and designs. UFP Industries (UFP) will not be responsibile for print/plan changes by others after final approval of shop drawings, nor is UFP responsible for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED DESIGN PROFESSIONAL DESIGNATED BY UFP. UFP WILL NOT BE HELD RESPONSIBLE FOR ANY MODIFICATIONS OR "CHARGE BACKS" DONE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM UFP.

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	M1284701	MONO TRUSS	1	1	I69114999
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:18 2024 Page 1

ID:7gv7HclJbc4vVF09EPQRVAyvRye-IgDyzIs?yshsRe_Y0xxt8OIlQqyfYbyDqxjypMyQBQ?

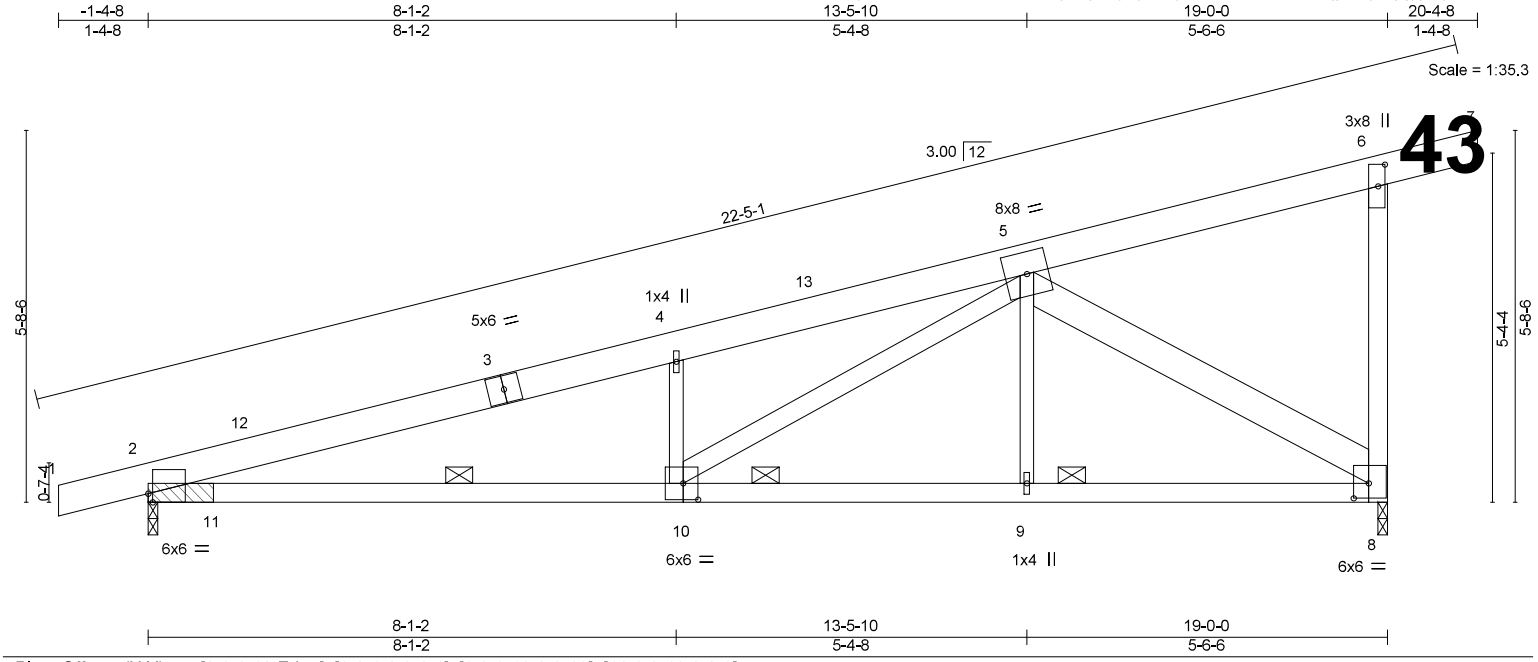


Plate Offsets (X,Y)-- [2:0-0-13,Edge], [6:0-4-0,0-1-4], [8:0-2-12,0-2-12], [10:0-2-12,0-3-0]

SPACING-: 2-3-0		**SPACING-:** 1-9-0		**SPACING-** 2-3-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)		**LOADING** (psf)		Plate Grip DOL 1.00		TC 0.93		Vert(LL)	-0.15	2-10	>999	240	MT20	185/144
TCLL	38.1	TCLL	49.0	Lumber DOL 1.00		BC 0.58		Vert(CT)	-0.25	2-10	>901	180		
(Ground Snow=54.5)		(Ground Snow=70.0)		Rep Stress Incr NO		WB 0.89		Horz(CT)	0.06	8	n/a	n/a		
TCDL	14.0	TCDL	18.0	Code IBC2021/TPI2014		Matrix-SH							Weight: 92 lb	
BCLL	0.0 *	BCLL	0.0 *										FT = 20%	
BCDL	5.0	BCDL	6.4											

LUMBER-

TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
8-10: 2x4 HF No.2 or 2x4 SPF No.2
WEBS 2x4 HF No.2 or 2x4 SPF No.2 *Except*
4-10,5-9: 2x3 SPF Stud, 5-8: 2x6 HF No.2 or 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD 4-9-0 oc bracing.

REACTIONS. (size) 2=(0-1-12 + bearing block) (req. 0-1-14), 8=0-1-12
Max Horz 2=376(LC 9)
Max Uplift 2=-637(LC 8), 8=-648(LC 12)
Max Grav 2=1462(LC 19), 8=1756(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3140/1628, 4-5=-3040/1750, 6-8=-660/405
BOT CHORD 2-10=-1531/2902, 9-10=-685/1654, 8-9=-685/1656
WEBS 4-10=-745/577, 5-10=-996/1475, 5-8=-1959/1044

NOTES- (11-13)

1) 2x4 SPF 2100F 1.8E bearing block 12" long at jt. 2 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
2) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @27in o.c.; TCDL=2.7psf; BCDL=1.3psf; (Alt. 154mph @21in o.c.; TCDL=3.5psf; BCDL=1.7psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-4-8 to 1-7-8, Exterior(2R) 1-7-8 to 20-4-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pg= 54.5 psf; Pf=38.1 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 38.1 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=637, 8=648.
11) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss complies with CBC 2022 Section 2303.4.

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

LOAD CASE(S) Standard

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	M1284601	MONO TRUSS	1	1	I69114998
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:17 2024 Page 1

ID:7gv7HclJbc4vVF09EPQRVAyvRye-HTfZlQsNCYZ?pUPMSDQdcACClRY2pAd4clzPHwyQBQ0

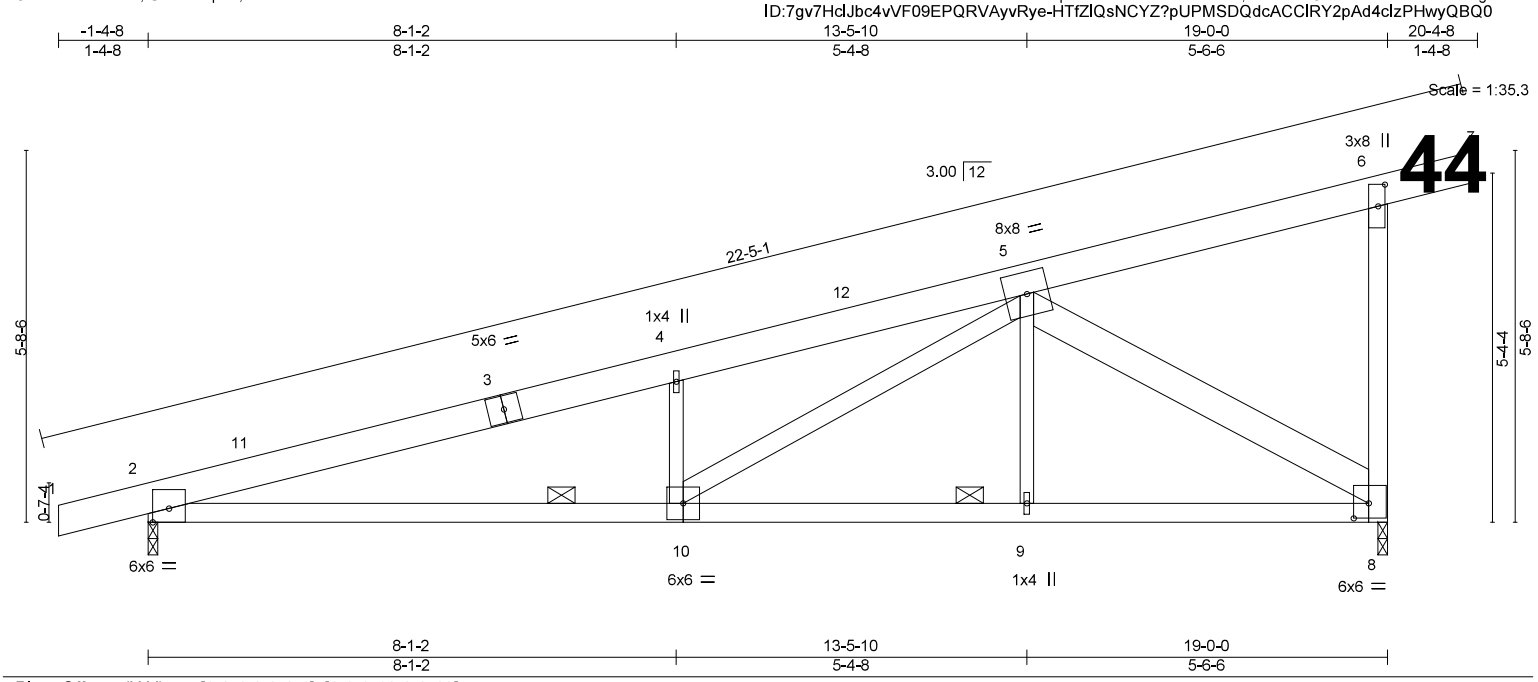


Plate Offsets (X,Y)-- [6:0-4-0,0-1-4], [8:0-2-12,0-2-12]

SPACING-: 2-0-0	SPACING-: 1-4-0	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
LOADING (psf)	LOADING (psf)	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.11 2-10 >999 240	MT20 185/144
TCLL 32.7	TCLL 49.0	Lumber DOL 1.00	BC 0.86	Vert(CT) -0.20 2-10 >999 180	
(Ground Snow=46.7)	(Ground Snow=70.1)	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.05 8 n/a n/a	
TCDL 14.0	TCDL 21.0	Code IBC2021/TPI2014	Matrix-SH		Weight: 91 lb
BCLL 0.0 *	BCLL 0.0 *				FT = 20%
BCDL 5.0	BCDL 7.5				

LUMBER-

TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
8-10: 2x4 HF No.2 or 2x4 SPF No.2
WEBS 2x4 HF No.2 or 2x4 SPF No.2 *Except*
4-10,5-9: 2x3 SPF Stud, 5-8: 2x6 HF No.2 or 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins, except end verticals.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 8=0-1-12
Max Horz 2=334(LC 9)
Max Uplift 2=-566(LC 8), 8=-576(LC 12)
Max Grav 2=1165(LC 19), 8=1398(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2489/1449, 4-5=-2407/1557, 6-8=-528/360
BOT CHORD 2-10=-1359/2300, 9-10=-607/1309, 8-9=-607/1310
WEBS 4-10=-587/513, 5-10=-885/1179, 5-8=-1550/928

NOTES- (10-12)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @24in o.c.; TCDL=2.7psf; BCDL=1.3psf; (Alt. 167mph @16in o.c.; TCDL=4.0psf; BCDL=1.9psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-4-8 to 1-7-8, Exterior(2R) 1-7-8 to 20-4-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 8.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=566, 8=576.
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

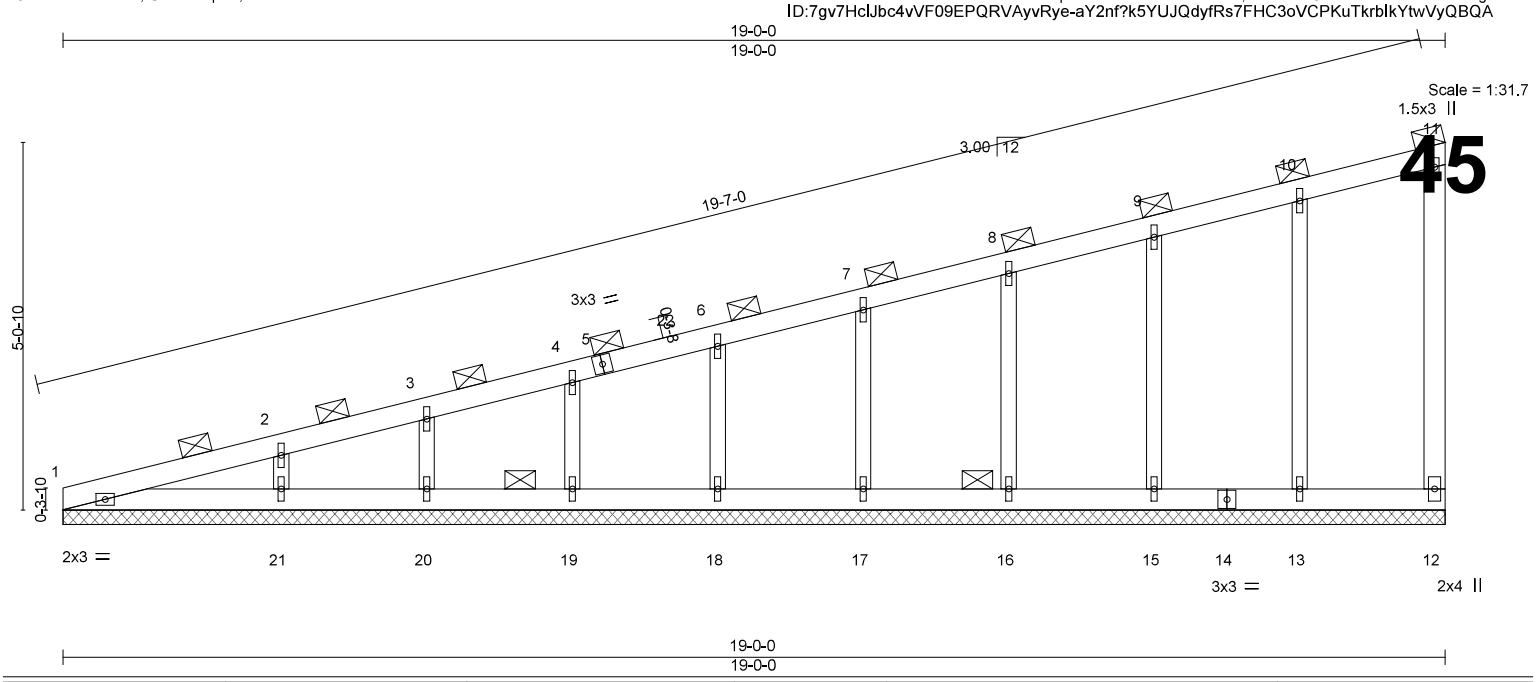
Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	G0398101	GABLE	1	1	I69114991
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:07 2024 Page 1
ID:7gv7HclJbc4vVF09EPQRVAyvRye-aY2nf?k5YUJQdyfRs7FHC3oVCPKuTkrblkYtwVyQBQA



19-0-0
19-0-0

SPACING-: 3-3-0	SPACING-: 3-1-0	SPACING- 3-3-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
LOADING (psf)	LOADING (psf)	Plate Grip DOL 1.00	TC 0.61	Vert(LL) n/a - n/a 999	MT20 185/144
TCLL 46.5	TCLL 49.0	Lumber DOL 1.00	BC 0.08	Vert(CT) n/a - n/a 999	
(Ground Snow=66.4)	(Ground Snow=70.0)	Rep Stress Incr NO	WB 0.34	Horz(CT) 0.01 12 n/a n/a	
TCDL 14.0	TCDL 14.8	Code IBC2021/TPI2014	Matrix-P		Weight: 65 lb
BCLL 0.0 *	BCLL 0.0 *				FT = 20%
BCDL 5.0	BCDL 5.3				

LUMBER-
TOP CHORD 2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD 2x4 HF No.2 or 2x4 SPF No.2
WEBS 2x4 HF No.2 or 2x4 SPF No.2
OTHERS 2x3 SPF Stud

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 6-4-0 oc bracing.

REACTIONS. All bearings 19-0-0.
(lb) - Max Horz 1=479(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12 except 13=-164(LC 12), 15=-155(LC 8), 16=-155(LC 12), 17=-156(LC 8), 18=-154(LC 12), 19=-163(LC 8), 20=-126(LC 12), 21=-240(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 12 except 1=261(LC 18), 13=604(LC 18), 15=567(LC 18), 16=568(LC 18), 17=576(LC 18), 18=529(LC 18), 19=446(LC 1), 20=344(LC 18), 21=657(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-382/405, 2-3=-334/363, 3-4=-306/351, 4-6=-273/330, 6-7=-253/312, 7-8=-235/293, 8-9=-217/274, 9-10=-200/255, 10-11=-182/262
BOT CHORD 1-21=-158/275, 20-21=-158/275, 19-20=-158/275, 18-19=-158/275, 17-18=-158/275, 16-17=-158/275, 15-16=-158/275, 13-15=-158/275, 12-13=-158/275
WEBS 10-13=-568/247, 9-15=-535/235, 8-16=-535/234, 7-17=-544/235, 6-18=-497/232, 4-19=-412/246, 3-20=-318/189, 2-21=-606/362

NOTES- (12-14)
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @39in o.c.; TCDL=5.1psf; BCDL=2.5psf; (Alt. 140mph @37in o.c.; TCDL=5.4psf; BCDL=2.6psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 15-10-4, Corner(3E) 15-10-4 to 18-10-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pg= 66.4 psf; Pf=46.5 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12 except (jt=lb) 13=164, 15=155, 16=155, 17=156, 18=154, 19=163, 20=126, 21=240.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
14) This truss complies with CBC 2022 Section 2303.4.

Continued on page 2

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP: 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

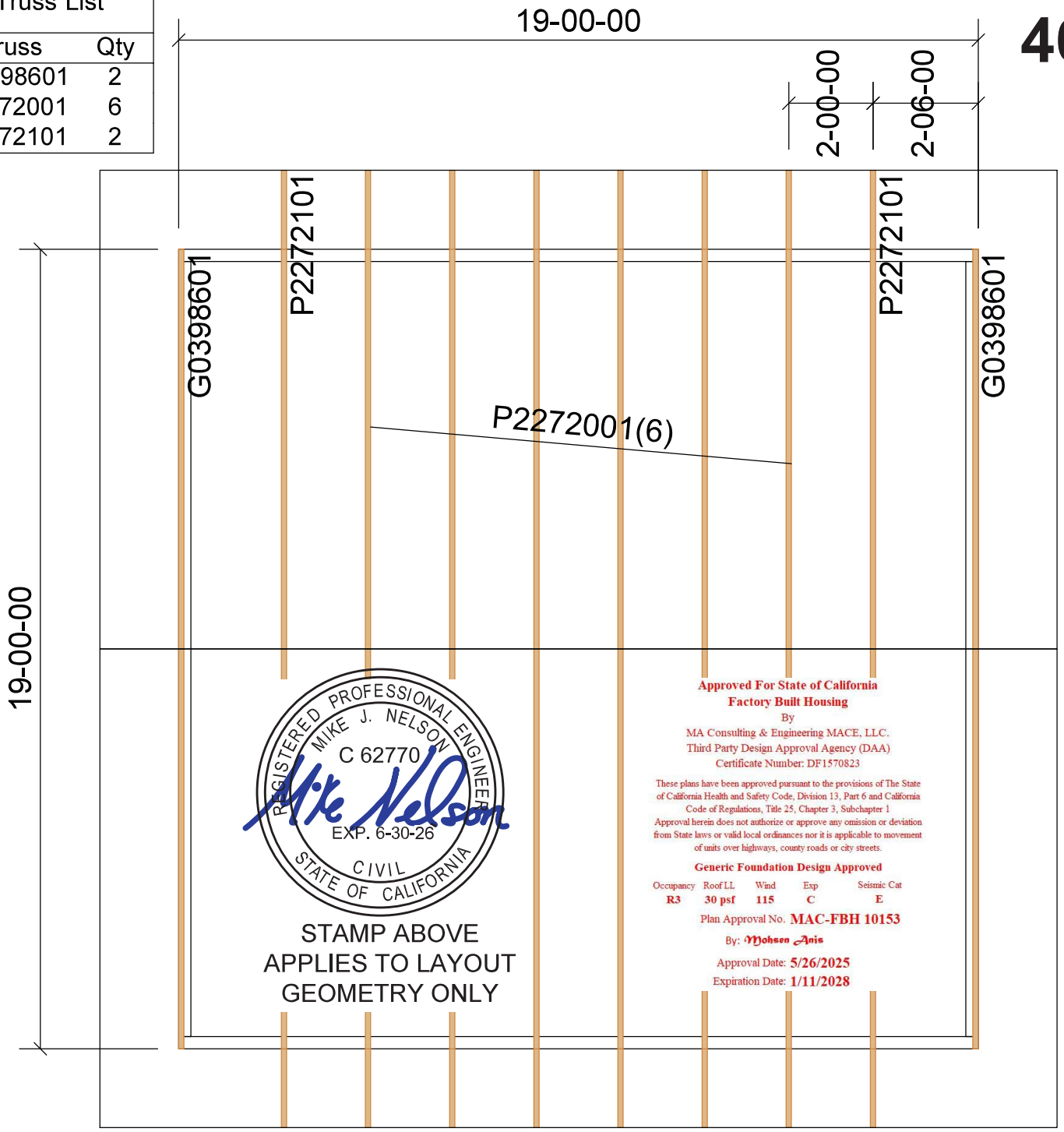
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

JOB	TRUSS	TRUSS TYPE	QTY	CUSTOMER
117380	L0311201	Truss Placement Plan	1	Boxabl 233 Gable - 46.7 ground snow

UFP Industries Inc., Grand Rapids, MI 49525, Regan Craig

Truss List	
Truss	Qty
G0398601	2
P2272001	6
P2272101	2

46



Warning - Verify design parameters and READ NOTES

UFP Industries, Inc. 2801 East Beltline Rd, NE
PHONE (616)-364-6161 Grand Rapids, MI 49525

This is a TRUSS PLACEMENT PLAN to accurately locate pre-fabricated trusses in a building. This is not a structural framing plan and should not be construed as such. The Owner/Builder shall contract with a licensed design professional to prepare complete structural framing plans for the building. This layout is used to ensure accurate truss placement in accordance with the dimensional requirements of the building. This document does not consider building structural bracing requirements, shear walls, beams, columns or other structural elements that can be critical to the performance of the structure. Any reference to structural elements other than pre-fabricated trusses is purely incidental and is incorporated for clarity only. Refer to the structural framing plans prepared by the Building Engineer of Record for complete framing information. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on this placement drawing. The building designer must incorporate the truss manufacturer's note on type and location of permanent web member reinforcemtn requirements in the truss design with full analysis of the overall structural design. For guideance regarding bracing, consult BCSI 1-03, "Guide to Good Practice for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses" available from the WTCA/TPI, 583 D'Onifrio Drive; Madison, WI 53179. It is the responsibility of the General Contractor/Superintendent to verify that the provided truss layout matches final intended construction plans, loading conditions and use. If they do not, it is the responsibility of the General Contractor/Superintendent to provide prints /plans containing the latest specifications and designs. UFP Industries (UFP) will not be responsibile for print/plan changes by others after final approval of shop drawings, nor is UFP responsible for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED DESIGN PROFESSIONAL DESIGNATED BY UFP. UFP WILL NOT BE HELD RESPONSIBLE FOR ANY MODIFICATIONS OR "CHARGE BACKS" DONE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM UFP.

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	P2272101	QUEENPOST	1	1	I69115005
					Job Reference (optional)

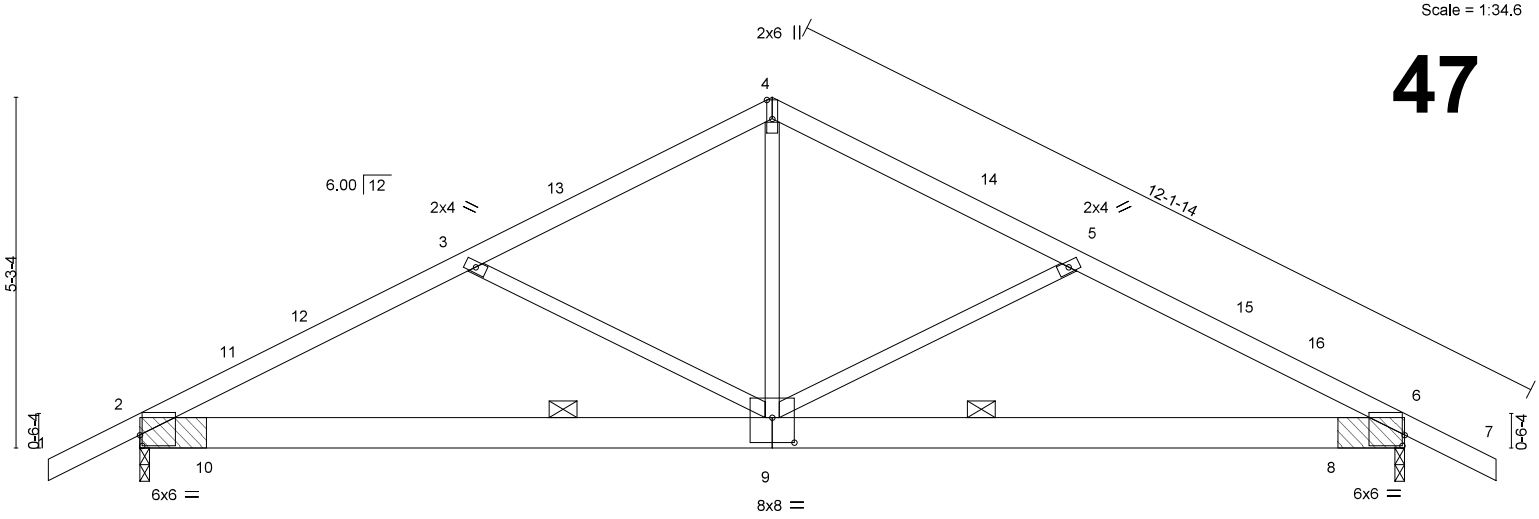
UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:23 2024 Page 1

ID:Xz3qLqaXulJuq6xSPTA9xDyvRys-6d0r0Tw7nOK9XPtVoUX2rRS88rlQDt9y_DQjTayQBPw

-1-4-8	5-0-9	9-6-0	13-11-7	19-0-0	20-4-8
1-4-8	5-0-9	4-5-7	4-5-7	5-0-9	1-4-8

Scale = 1:34.6

47



9-6-0	19-0-0
9-6-0	9-6-0

Plate Offsets (X,Y)-- [2:0-0-7,0-1-15], [4:0-3-7,Edge], [6:0-0-7,0-1-15], [9:0-4-0,0-4-8]

SPACING-: 2-3-0	SPACING-: 1-9-0	SPACING- 2-3-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
LOADING (psf)	LOADING (psf)	Plate Grip DOL 1.00	TC 0.99	Vert(LL) -0.07 9 >999 240	MT20 185/144
TCLL 38.1	TCLL 49.0	Lumber DOL 1.00	BC 0.23	Vert(CT) -0.10 2-9 >999 180	
(Ground Snow=54.5)	(Ground Snow=70.0)	Rep Stress Incr NO	WB 0.77	Horz(CT) 0.03 6 n/a n/a	
TCDL 14.0	TCDL 18.0	Code IBC2021/TPI2014	Matrix-P		Weight: 78 lb
BCLL 0.0 *	BCLL 0.0 *				FT = 20%
BCDL 5.0	BCDL 6.4				

LUMBER-
TOP CHORD 2x4 HF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x3 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=(0-1-12 + bearing block) (req. 0-1-15), 6=(0-1-12 + bearing block) (req. 0-1-15)
Max Horz 2=-157(LC 13)
Max Uplift 2=-494(LC 12), 6=-494(LC 13)
Max Grav 2=1524(LC 19), 6=1524(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2351/903, 3-4=-1501/686, 4-5=-1501/686, 5-6=-2351/903
BOT CHORD 2-9=-643/1967, 6-9=-642/1967
WEBS 3-9=-941/435, 4-9=-352/733, 5-9=-941/435

NOTES- (10-12)
1) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 2 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
2) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 6 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
3) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @27in o.c.; TCDL=3.8psf; BCDL=1.9psf; (Alt. 154mph @21in o.c.; TCDL=4.9psf; BCDL=2.4psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 6-6-0, Exterior(2R) 6-6-0 to 12-6-0, Interior(1) 12-6-0 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pg= 54.5 psf; Pf=38.1 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 38.1 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=494, 6=494.
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	P2272001	QUEENPOST	1	1	I69115004
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:23 2024 Page 1

ID:Xz3qLqaXuIJuq6xSPTA9xDyvRys-6d0r0Tw7nOK9XPtVoUX2rRSD4rm3Dwny_DQjTayQBPw

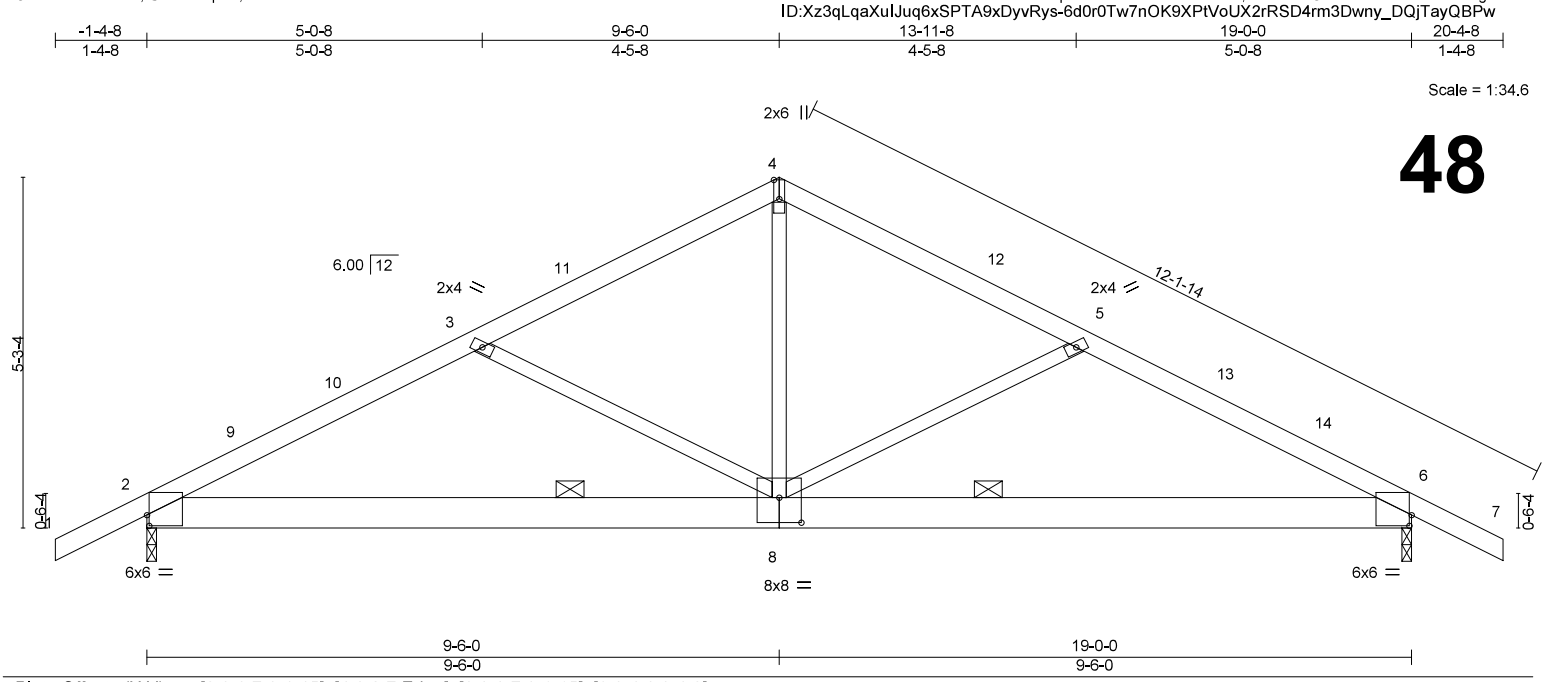


Plate Offsets (X,Y)-- [2:0-0-7,0-1-15], [4:0-3-7,Edge], [6:0-0-7,0-1-15], [8:0-4-0,0-4-8]

SPACING-: 2-0-0	**SPACING-:** 1-4-0	**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
LOADING (psf)	**LOADING** (psf)	Plate Grip DOL 1.00	TC 0.68	Vert(LL) -0.05 8 >999 240	MT20 185/144
TCLL 32.7	TCLL 49.0	Lumber DOL 1.00	BC 0.18	Vert(CT) -0.09 2-8 >999 180	
(Ground Snow=46.7)	(Ground Snow=70.1)	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.02 6 n/a n/a	
TCDL 14.0	TCDL 21.0	Code IBC2021/TPI2014	Matrix-P		Weight: 74 lb
BCLL 0.0 *	BCLL 0.0 *				FT = 20%
BCDL 5.0	BCDL 7.5				

LUMBER-
TOP CHORD 2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x3 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 6=0-1-12
Max Horz 2=-139(LC 17)
Max Uplift 2=-433(LC 12), 6=-433(LC 13)
Max Grav 2=1213(LC 19), 6=1213(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1872/795, 3-4=-1212/604, 4-5=-1212/604, 5-6=-1872/795
BOT CHORD 2-8=-565/1569, 6-8=-564/1569
WEBS 3-8=-734/385, 4-8=-308/595, 5-8=-734/385

NOTES- (9-11)
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @24in o.c.; TCDL=4.0psf; BCDL=2.0psf; (Alt. 167mph @16in o.c.; TCDL=6.0psf; BCDL=3.0psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 6-6-0, Exterior(2R) 6-6-0 to 12-6-0, Interior(1) 12-6-0 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 6.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=433, 6=433.
9) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
10) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP: 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	G0398601	GABLE	1	1	I69114992
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:08 2024 Page 1

ID:Xz3qLqaXuIJuq6xSPTA9xDyvRys-2kcAsLIjJnRHE6DdQqmWHKICphnCCSIXOIQSxyQBQ9

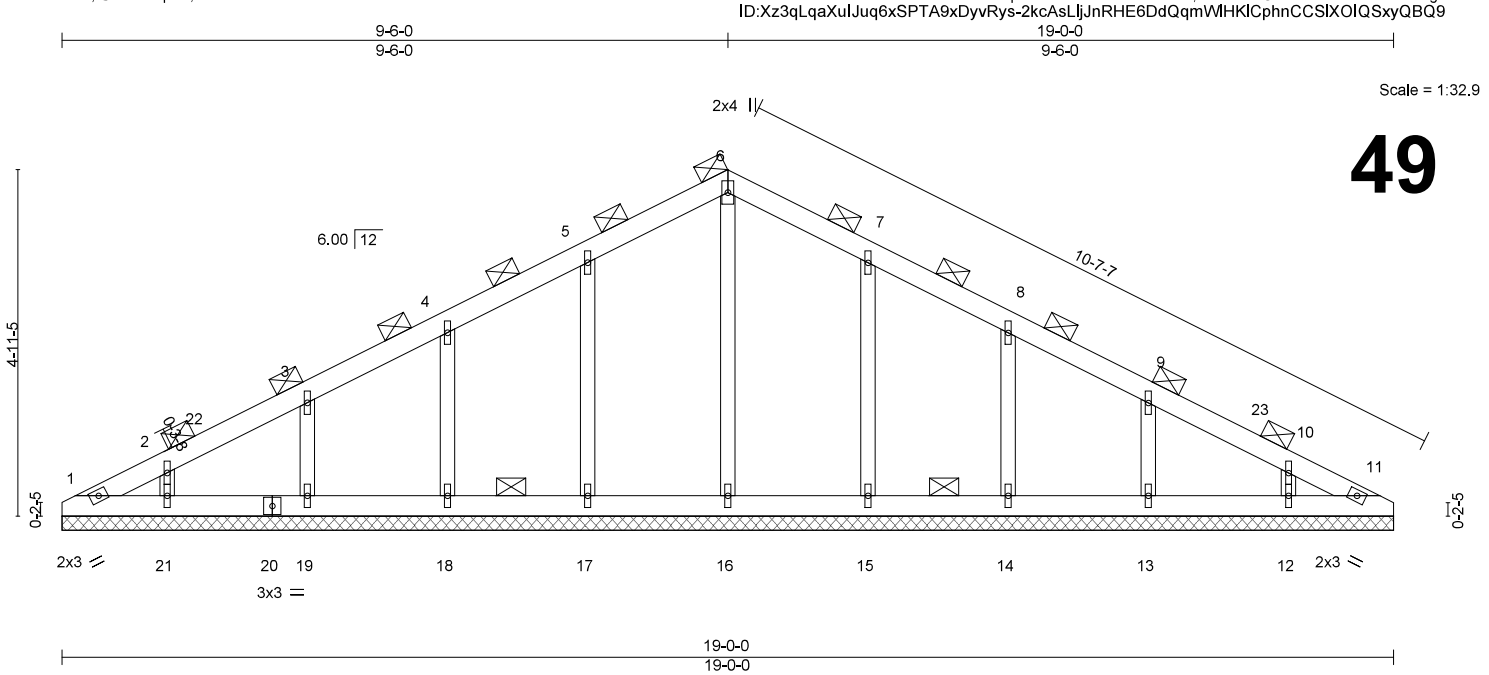


Plate Offsets (X,Y)-- [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

SPACING-: 3-3-0		**SPACING-:** 3-1-0		**SPACING-** 3-3-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)		**LOADING** (psf)		Plate Grip DOL 1.00		TC 0.27		Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCLL	46.5	TCLL	49.0	Lumber DOL 1.00		BC 0.04		Vert(CT)	n/a	-	n/a	999		
(Ground Snow=66.4)		(Ground Snow=70.0)		Rep Stress Incr NO		WB 0.32		Horz(CT)	0.01	11	n/a	n/a		
TCDL	11.0	TCDL	11.6	Code IBC2021/TPI2014		Matrix-P							Weight: 62 lb	
BCLL	0.0 *	BCLL	0.0 *										FT = 20%	
BCDL	5.0	BCDL	5.3											

LUMBER-

TOP CHORD	2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD	2x4 HF No.2 or 2x4 SPF No.2
OTHERS	2x3 SPF Stud

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	6-4-0 oc bracing.

REACTIONS. All bearings 19-0-0.

(lb) - Max Horz 1=-193(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 17=-213(LC 12), 18=-188(LC 12), 19=-196(LC 12), 21=-174(LC 12), 15=-212(LC 13), 14=-189(LC 13), 13=-196(LC 13), 12=-174(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=302(LC 24), 17=677(LC 18), 18=595(LC 18), 19=620(LC 18), 21=416(LC 18), 15=677(LC 19), 14=594(LC 19), 13=620(LC 19), 12=415(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-259/85, 5-6=-199/378, 6-7=-199/378

WEBS 6-16=-269/6, 5-17=-644/278, 4-18=-562/244, 3-19=-587/307, 2-21=-386/324, 7-15=-644/279, 8-14=-562/244, 9-13=-587/308, 10-12=-386/324

NOTES- (12-14)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @39in o.c.; TCDL=5.1psf; BCDL=2.5psf; (Alt. 140mph @37in o.c.; TCDL=5.4psf; BCDL=2.6psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-2-12 to 3-6-0, Exterior(2N) 3-6-0 to 6-6-0, Corner(3R) 6-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 15-6-0, Corner(3E) 15-6-0 to 18-9-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pg= 66.4 psf; Pf=46.5 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 17=213, 18=188, 19=196, 21=174, 15=212, 14=189, 13=196, 12=174.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
14) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

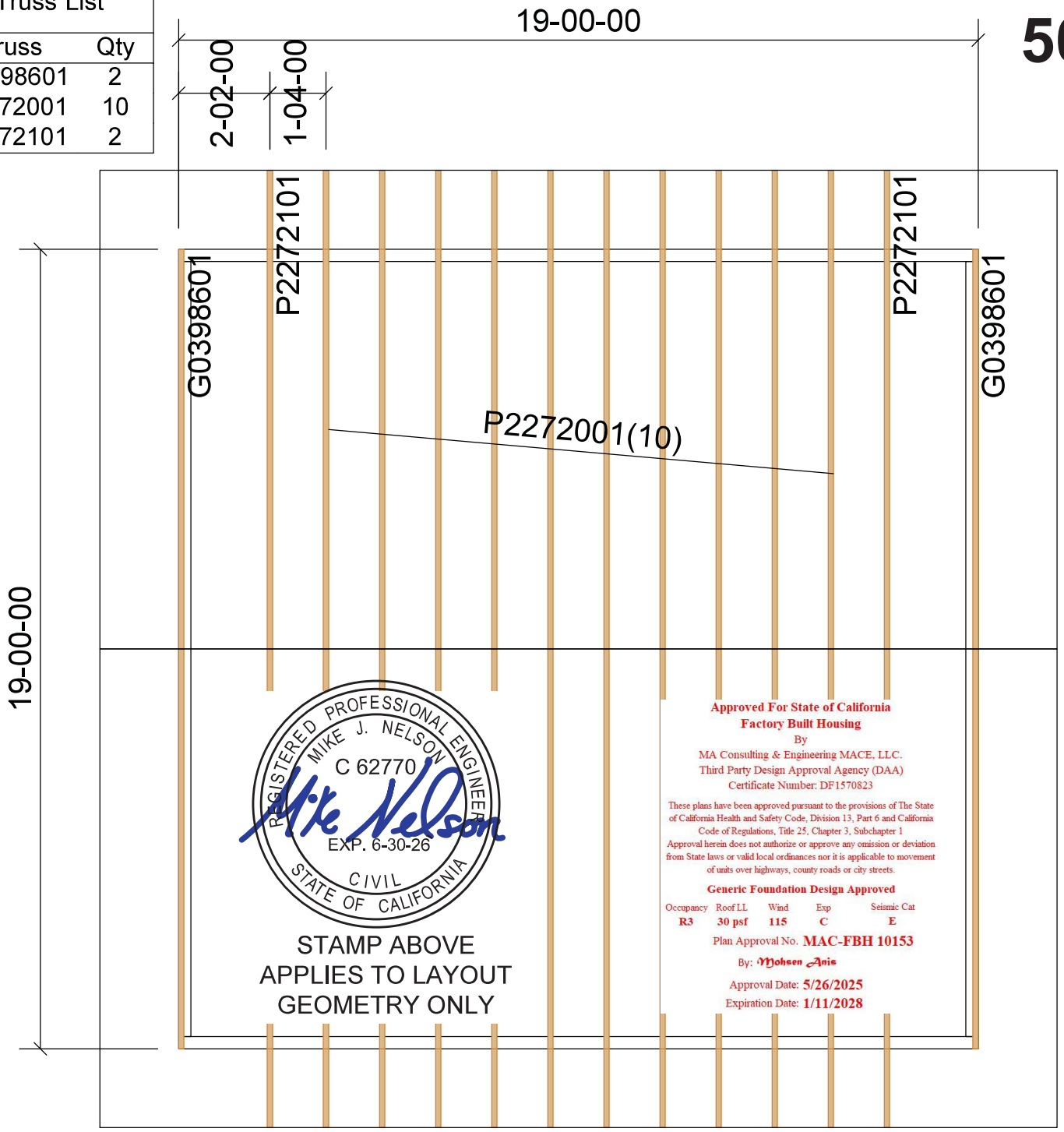
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

JOB	TRUSS	TRUSS TYPE	QTY	CUSTOMER
117380	L0311202	Truss Placement Plan	1	Boxabl 233 Gable - 70 ground snow

UFP Industries Inc., Grand Rapids, MI 49525, Regan Craig

Truss List	
Truss	Qty
G0398601	2
P2272001	10
P2272101	2

50



STAMP ABOVE APPLIES TO LAYOUT GEOMETRY ONLY

Warning - Verify design parameters and READ NOTES

UFP Industries, Inc. 2801 East Beltline Rd, NE
PHONE (616)-364-6161 Grand Rapids, MI 49525

This is a TRUSS PLACEMENT PLAN to accurately locate pre-fabricated trusses in a building. This is not a structural framing plan and should not be construed as such. The Owner/Builder shall contract with a licensed design professional to prepare complete structural framing plans for the building. This layout is used to ensure accurate truss placement in accordance with the dimensional requirements of the building. This document does not consider building structural bracing requirements, shear walls, beams, columns or other structural elements that can be critical to the performance of the structure. Any reference to structural elements other than pre-fabricated trusses is purely incidental and is incorporated for clarity only. Refer to the structural framing plans prepared by the Building Engineer of Record for complete framing information. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on this placement drawing. The building designer must incorporate the truss manufacturer's note on type and location of permanent web member reinforcemtn requirements in the truss design with full analysis of the overall structural design. For guideance regarding bracing, consult BCSI 1-03, "Guide to Good Practice for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses" available from the WTCA/TPI, 583 D'Onifrio Drive; Madison, WI 53179. It is the responsibility of the General Contractor/Superintendent to verify that the provided truss layout matches final intended construction plans, loading conditions and use. If they do not, it is the responsibility of the General Contractor/Superintendent to provide prints /plans containing the latest specifications and designs. UFP Industries (UFP) will not be responsibile for print/plan changes by others after final approval of shop drawings, nor is UFP responsible for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED DESIGN PROFESSIONAL DESIGNATED BY UFP. UFP WILL NOT BE HELD RESPONSIBLE FOR ANY MODIFICATIONS OR "CHARGE BACKS" DONE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM UFP.

™

®

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	P2272101	QUEENPOST	1	1	I69115005
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:23 2024 Page 1

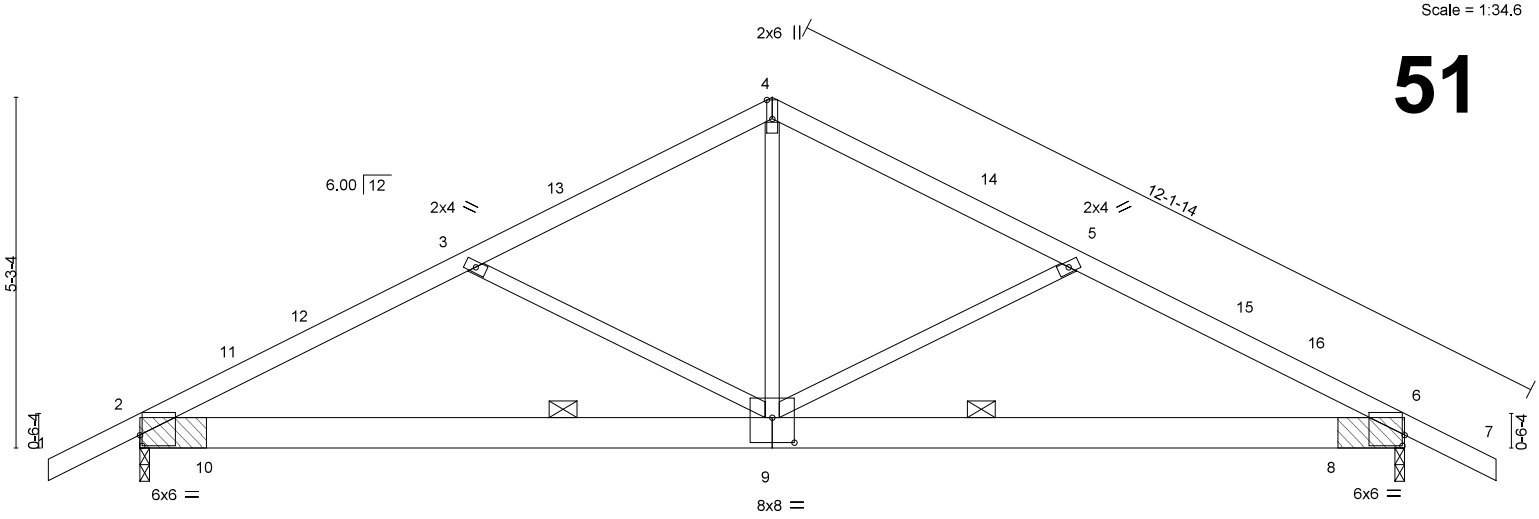
ID:Xz3qLqaXulJuq6xSPTA9xDyvRys-6d0r0Tw7nOK9XPtVoUX2rRS88rlQDt9y_DQjTayQBPw

-1-4-8 | 5-0-9 | 9-6-0 | 13-11-7 | 19-0-0 | 20-4-8

1-4-8 | 5-0-9 | 4-5-7 | 4-5-7 | 5-0-9 | 1-4-8

Scale = 1:34.6

51



9-6-0 | 19-0-0

9-6-0 | 9-6-0

Plate Offsets (X,Y)-- [2:0-0-7,0-1-15], [4:0-3-7,Edge], [6:0-0-7,0-1-15], [9:0-4-0,0-4-8]

SPACING-: 2-3-0		**SPACING-:** 1-9-0		**SPACING-** 2-3-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)		**LOADING** (psf)		Plate Grip DOL 1.00		TC 0.99		Vert(LL)	-0.07	9	>999	240	MT20	185/144
TCLL	38.1	TCLL	49.0	Lumber DOL 1.00		BC 0.23		Vert(CT)	-0.10	2-9	>999	180		
(Ground Snow=54.5)		(Ground Snow=70.0)		Rep Stress Incr NO		WB 0.77		Horz(CT)	0.03	6	n/a	n/a		
TCDL	14.0	TCDL	18.0	Code IBC2021/TPI2014		Matrix-P							Weight: 78 lb	
BCLL	0.0 *	BCLL	0.0 *										FT = 20%	
BCDL	5.0	BCDL	6.4											

LUMBER-

TOP CHORD 2x4 HF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x3 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=(0-1-12 + bearing block) (req. 0-1-15), 6=(0-1-12 + bearing block) (req. 0-1-15)
Max Horz 2=-157(LC 13)
Max Uplift 2=-494(LC 12), 6=-494(LC 13)
Max Grav 2=1524(LC 19), 6=1524(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2351/903, 3-4=-1501/686, 4-5=-1501/686, 5-6=-2351/903
BOT CHORD 2-9=-643/1967, 6-9=-642/1967
WEBS 3-9=-941/435, 4-9=-352/733, 5-9=-941/435

NOTES- (10-12)

1) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 2 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
2) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 6 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
3) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @27in o.c.; TCDL=3.8psf; BCDL=1.9psf; (Alt. 154mph @21in o.c.; TCDL=4.9psf; BCDL=2.4psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 6-6-0, Exterior(2R) 6-6-0 to 12-6-0, Interior(1) 12-6-0 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pg= 54.5 psf; Pf=38.1 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 38.1 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=494, 6=494.
10) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	P2272001	QUEENPOST	1	1	I69115004
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:23 2024 Page 1

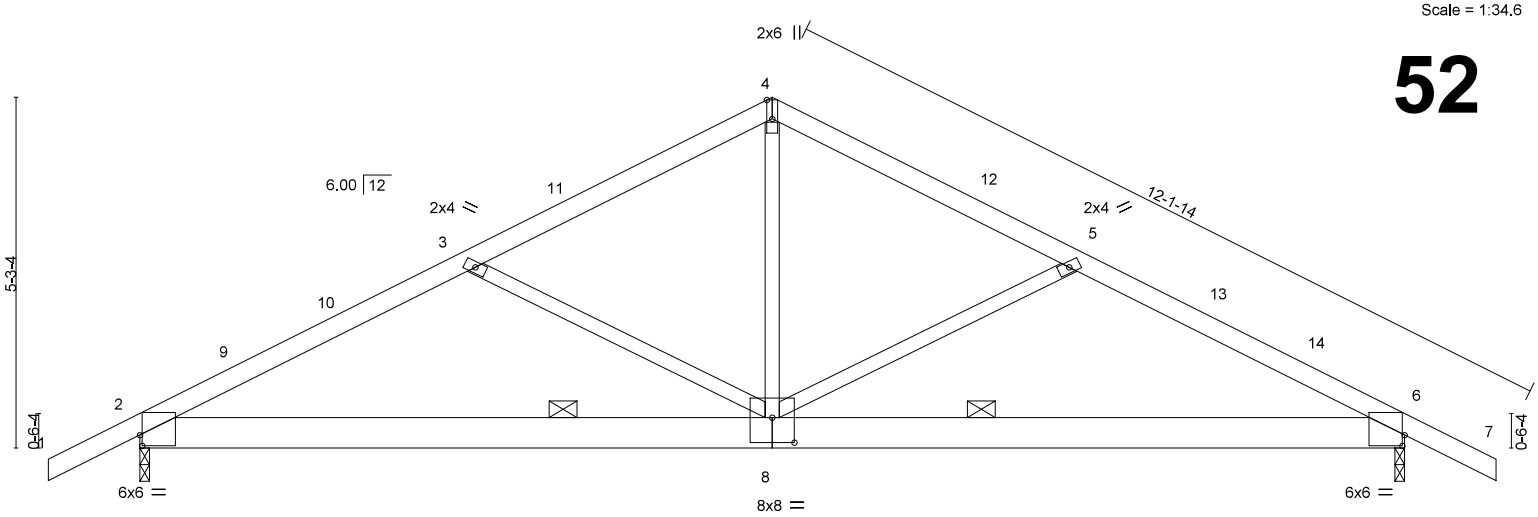
ID:Xz3qLqaXuIJuq6xSPTA9xDyvRys-6d0r0Tw7nOK9XPtVoUX2rRSD4rm3Dwny_DQjTayQBPw

-1-4-8 | 5-0-8 | 9-6-0 | 13-11-8 | 19-0-0 | 20-4-8

1-4-8 | 5-0-8 | 4-5-8 | 4-5-8 | 5-0-8 | 1-4-8

Scale = 1:34.6

52



9-6-0 | 19-0-0

9-6-0 | 9-6-0

Plate Offsets (X,Y)-- [2:0-0-7,0-1-15], [4:0-3-7,Edge], [6:0-0-7,0-1-15], [8:0-4-0,0-4-8]

SPACING-: 2-0-0	**SPACING-:** 1-4-0	**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
LOADING (psf)	**LOADING** (psf)	Plate Grip DOL 1.00	TC 0.68	Vert(LL) -0.05 8 >999 240	MT20 185/144
TCLL 32.7	TCLL 49.0	Lumber DOL 1.00	BC 0.18	Vert(CT) -0.09 2-8 >999 180	
(Ground Snow=46.7)	(Ground Snow=70.1)	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.02 6 n/a n/a	
TCDL 14.0	TCDL 21.0	Code IBC2021/TPI2014	Matrix-P		Weight: 74 lb
BCLL 0.0 *	BCLL 0.0 *				FT = 20%
BCDL 5.0	BCDL 7.5				

LUMBER-
TOP CHORD 2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x3 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins.
BOT CHORD 6-4-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 6=0-1-12
Max Horz 2=-139(LC 17)
Max Uplift 2=-433(LC 12), 6=-433(LC 13)
Max Grav 2=1213(LC 19), 6=1213(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1872/795, 3-4=-1212/604, 4-5=-1212/604, 5-6=-1872/795
BOT CHORD 2-8=-565/1569, 6-8=-564/1569
WEBS 3-8=-734/385, 4-8=-308/595, 5-8=-734/385

NOTES- (9-11)
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @24in o.c.; TCDL=4.0psf; BCDL=2.0psf; (Alt. 167mph @16in o.c.; TCDL=6.0psf; BCDL=3.0psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 6-6-0, Exterior(2R) 6-6-0 to 12-6-0, Interior(1) 12-6-0 to 17-4-8, Exterior(2E) 17-4-8 to 20-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg= 46.7 psf; Pf=32.7 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 32.7 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 6.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=433, 6=433.
9) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
10) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
11) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP: 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233
117380	G0398601	GABLE	1	1	I69114992
					Job Reference (optional)

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:08 2024 Page 1

ID:Xz3qLqaXuIJuq6xSPTA9xDyvRys-2kcAsLIjJnRHE6DdQqmWHKICphnCCSIXOIQSxyQBQ9

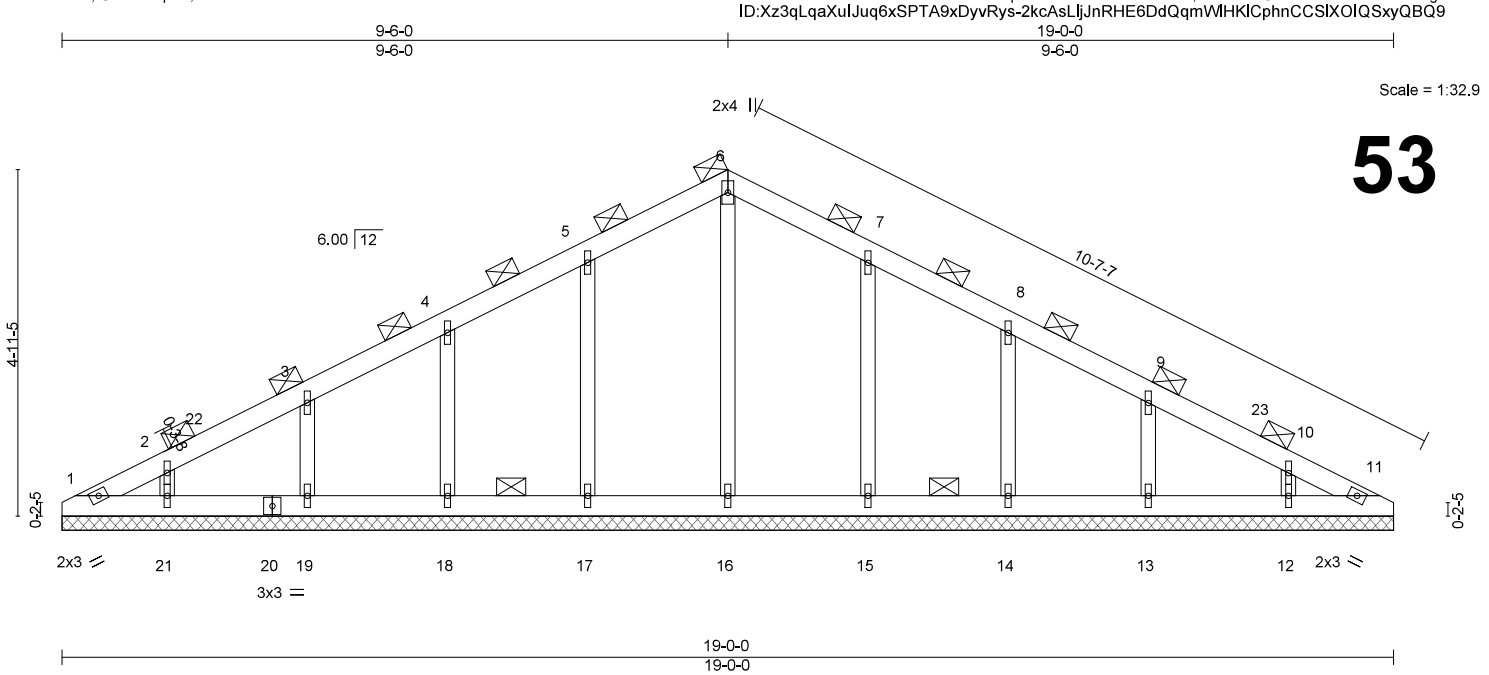


Plate Offsets (X,Y)-- [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

SPACING-: 3-3-0	**SPACING-:** 3-1-0	**SPACING-** 3-3-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)	**LOADING** (psf)	Plate Grip DOL 1.00	TC 0.27		Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCLL 46.5	TCLL 49.0	Lumber DOL 1.00	BC 0.04		Vert(CT)	n/a	-	n/a	999		
(Ground Snow=66.4)	(Ground Snow=70.0)	Rep Stress Incr NO	WB 0.32		Horz(CT)	0.01	11	n/a	n/a		
TCDL 11.0	TCDL 11.6	Code IBC2021/TPI2014	Matrix-P							Weight: 62 lb	
BCLL 0.0 *	BCLL 0.0 *									FT = 20%	
BCDL 5.0	BCDL 5.3										

LUMBER-

TOP CHORD	2x4 HF No.2 or 2x4 SPF No.2
BOT CHORD	2x4 HF No.2 or 2x4 SPF No.2
OTHERS	2x3 SPF Stud

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	6-4-0 oc bracing.

REACTIONS. All bearings 19-0-0.

(lb) - Max Horz 1=-193(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 17=-213(LC 12), 18=-188(LC 12), 19=-196(LC 12), 21=-174(LC 12), 15=-212(LC 13), 14=-189(LC 13), 13=-196(LC 13), 12=-174(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=302(LC 24), 17=677(LC 18), 18=595(LC 18), 19=620(LC 18), 21=416(LC 18), 15=677(LC 19), 14=594(LC 19), 13=620(LC 19), 12=415(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-259/85, 5-6=-199/378, 6-7=-199/378

WEBS 6-16=-269/6, 5-17=-644/278, 4-18=-562/244, 3-19=-587/307, 2-21=-386/324, 7-15=-644/279, 8-14=-562/244, 9-13=-587/308, 10-12=-386/324

NOTES- (12-14)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph @39in o.c.; TCDL=5.1psf; BCDL=2.5psf; (Alt. 140mph @37in o.c.; TCDL=5.4psf; BCDL=2.6psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-2-12 to 3-6-0, Exterior(2N) 3-6-0 to 6-6-0, Corner(3R) 6-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 15-6-0, Corner(3E) 15-6-0 to 18-9-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pg= 66.4 psf; Pf=46.5 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 17=213, 18=188, 19=196, 21=174, 15=212, 14=189, 13=196, 12=174.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
14) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

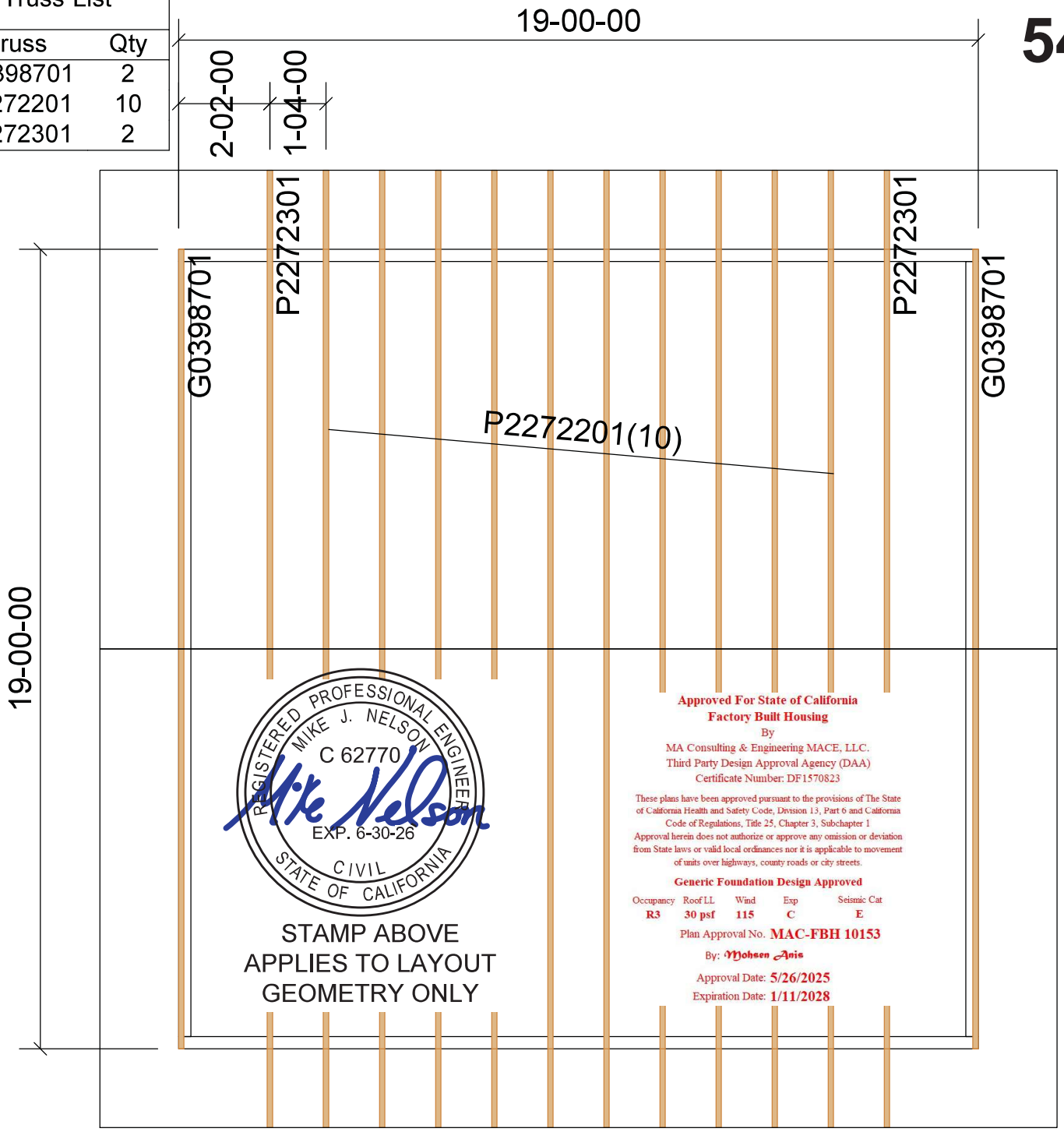
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

JOB	TRUSS	TRUSS TYPE	QTY	CUSTOMER
117380	L0311301	Truss Placement Plan	1	Boxabl 233 Gable - 151.5 ground snow

UFP Industries Inc., Grand Rapids, MI 49525, Regan Craig

Truss List	
Truss	Qty
G0398701	2
P2272201	10
P2272301	2

54



Warning - Verify design parameters and READ NOTES

UFP Industries, Inc. 2801 East Beltline Rd, NE
PHONE (616)-364-6161 Grand Rapids, MI 49525

This is a TRUSS PLACEMENT PLAN to accurately locate pre-fabricated trusses in a building. This is not a structural framing plan and should not be construed as such. The Owner/Builder shall contract with a licensed design professional to prepare complete structural framing plans for the building. This layout is used to ensure accurate truss placement in accordance with the dimensional requirements of the building. This document does not consider building structural bracing requirements, shear walls, beams, columns or other structural elements that can be critical to the performance of the structure. Any reference to structural elements other than pre-fabricated trusses is purely incidental and is incorporated for clarity only. Refer to the structural framing plans prepared by the Building Engineer of Record for complete framing information. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on this placement drawing. The building designer must incorporate the truss manufacturer's note on type and location of permanent web member reinforcemtn requirements in the truss design with full analysis of the overall structural design. For guideance regarding bracing, consult BCSI 1-03, "Guide to Good Practice for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses" available from the WTCA/TPI, 583 D'Onifrio Drive; Madison, WI 53179. It is the responsibility of the General Contractor/Superintendent to verify that the provided truss layout matches final intended construction plans, loading conditions and use. If they do not, it is the responsibility of the General Contractor/Superintendent to provide prints /plans containing the latest specifications and designs. UFP Industries (UFP) will not be responsibile for print/plan changes by others after final approval of shop drawings, nor is UFP responsible for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED DESIGN PROFESSIONAL DESIGNATED BY UFP. UFP WILL NOT BE HELD RESPONSIBLE FOR ANY MODIFICATIONS OR "CHARGE BACKS" DONE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM UFP.

Job	Truss	Truss Type	Qty	Ply	Boxabl 233	I69115007
117380	P2272301	QUEENPOST	1	1	Job Reference (optional)	

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:25 2024 Page 1

ID:JzM6o4fXsx2lZTEGt34CNgyvRjG-208bR9yOJ0asnj1uwvZWxsXcKfSchpgFRXvqYSyQBPu

Scale = 1:46.9

55

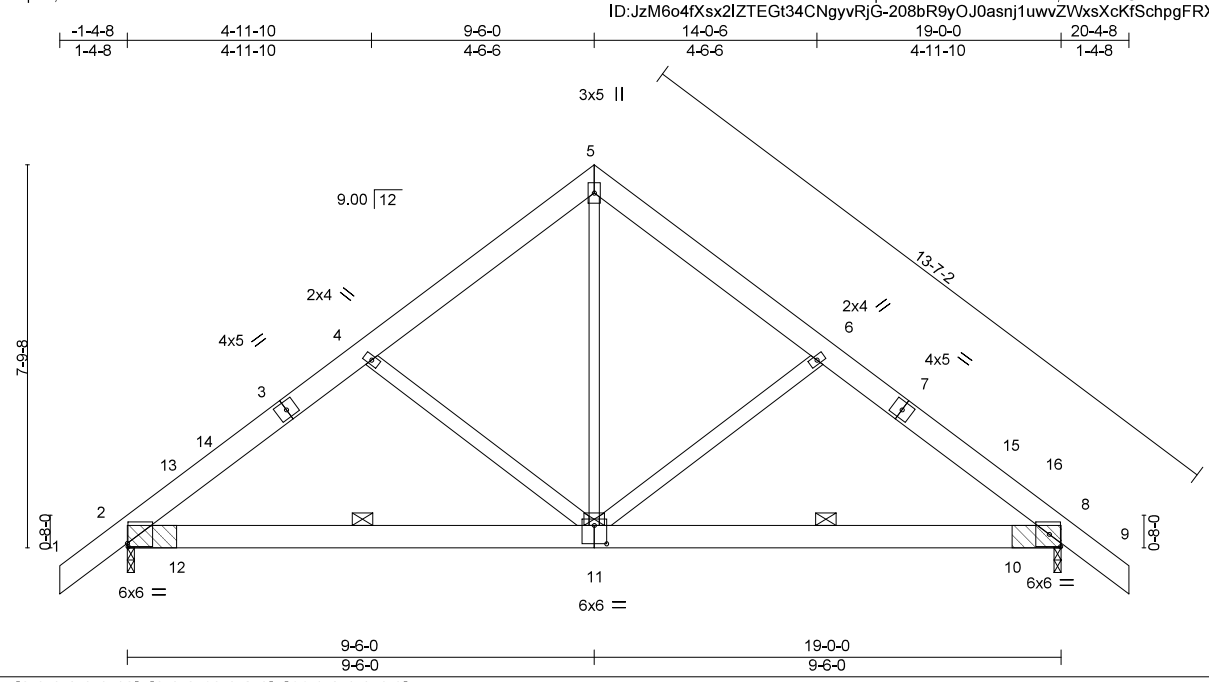


Plate Offsets (X,Y)-- [2:0-0-3,0-0-13], [8:0-2-12,0-3-0], [11:0-3-0,0-4-8]

LOADING (psf)		SPACING-	1-9-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	54.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.05	11	>999	240	MT20	185/144
(Ground Snow=151.5)		Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.06	2-11	>999	180		
TCDL	8.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-P							Weight: 107 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD 2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 HF No.2 or 2x4 SPF No.2 *Except*
5-11: 2x3 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins.
BOT CHORD 4-9-0 oc bracing.

REACTIONS. (size) 2=(0-1-12 + bearing block) (req. 0-2-5), 8=(0-1-12 + bearing block) (req. 0-2-5)
Max Horz 2=-271(LC 10)
Max Uplift 2=-330(LC 12), 8=-330(LC 13)
Max Grav 2=1822(LC 19), 8=1822(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/290, 2-4=-2297/521, 4-5=-1480/455, 5-6=-1480/455, 6-8=-2297/521, 8-9=0/290
BOT CHORD 2-11=-321/1636, 8-11=-205/1636
WEBS 4-11=-971/340, 5-11=-357/783, 6-11=-971/340

NOTES- (11-13)

1) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 2 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
2) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 8 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
3) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.8psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-4-8 to 1-7-8, Exterior(2N) 1-7-8 to 6-6-0, Corner(3R) 6-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 17-4-8, Corner(3E) 17-4-8 to 20-4-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pg=151.5 psf; Ps=54.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.51; Ct=1.00; Unobstructed slippery surface
5) Roof design snow load has been reduced to account for slope.
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 106.1 psf on overhangs non-concurrent with other live loads.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=330, 8=330.
11) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP: 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233	I69115006
117380	P2272201	QUEENPOST	1	1	Job Reference (optional)	

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:24 2024 Page 1

ID:JzM6o4fXsx2IZTEGt34CNgyvRjG-apaDDpxmYiS?9ZSiMC2HOf?TWF62yOo6DtAG00yQBPv

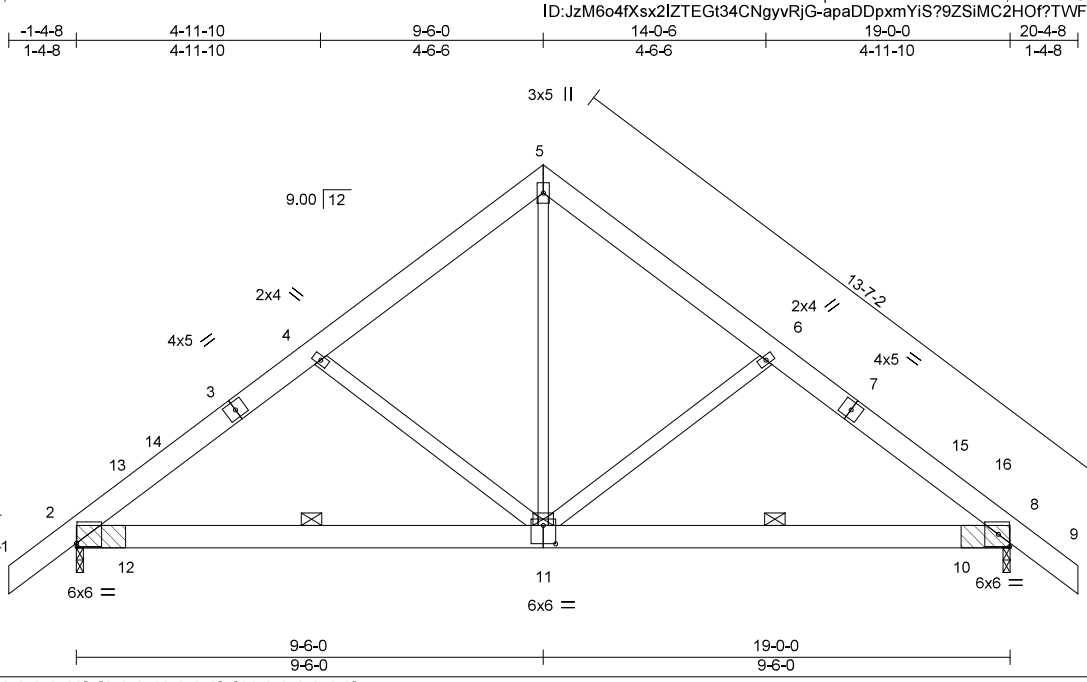


Plate Offsets (X,Y)-- [2:0-0-3,0-0-13], [8:0-2-12,0-3-0], [11:0-3-0,0-4-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	54.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.04	11	>999	240	MT20	185/144
(Ground Snow=151.5)		Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.05	2-11	>999	180		
TCDL	8.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0 *	Code IBC2021/TPI2014		Matrix-P							Weight: 107 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD	2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD	2x6 SPF 2100F 1.8E
WEBS	2x4 HF No.2 or 2x4 SPF No.2 *Except* 5-11: 2x3 SPF Stud

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-2-0 oc purlins.
BOT CHORD	4-9-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 8=0-1-12
Max Horz 2=-206(LC 10)
Max Uplift 2=-251(LC 12), 8=-251(LC 13)
Max Grav 2=1388(LC 19), 8=1388(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-4=-1750/397, 4-5=-1128/347, 5-6=-1128/347, 6-8=-1750/397
BOT CHORD	2-11=-245/1246, 8-11=-156/1246
WEBS	4-11=-740/259, 5-11=-272/596, 6-11=-740/259

NOTES- (11-13)

1) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 2 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
2) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 8 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
3) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.8psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-4-8 to 1-7-8, Exterior(2N) 1-7-8 to 6-6-0, Corner(3R) 6-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 17-4-8, Corner(3E) 17-4-8 to 20-4-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pg=151.5 psf; Ps=54.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.51; Ct=1.00; Unobstructed slippery surface
5) Roof design snow load has been reduced to account for slope.
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 106.1 psf on overhangs non-concurrent with other live loads.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=251, 8=251.
11) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP: 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

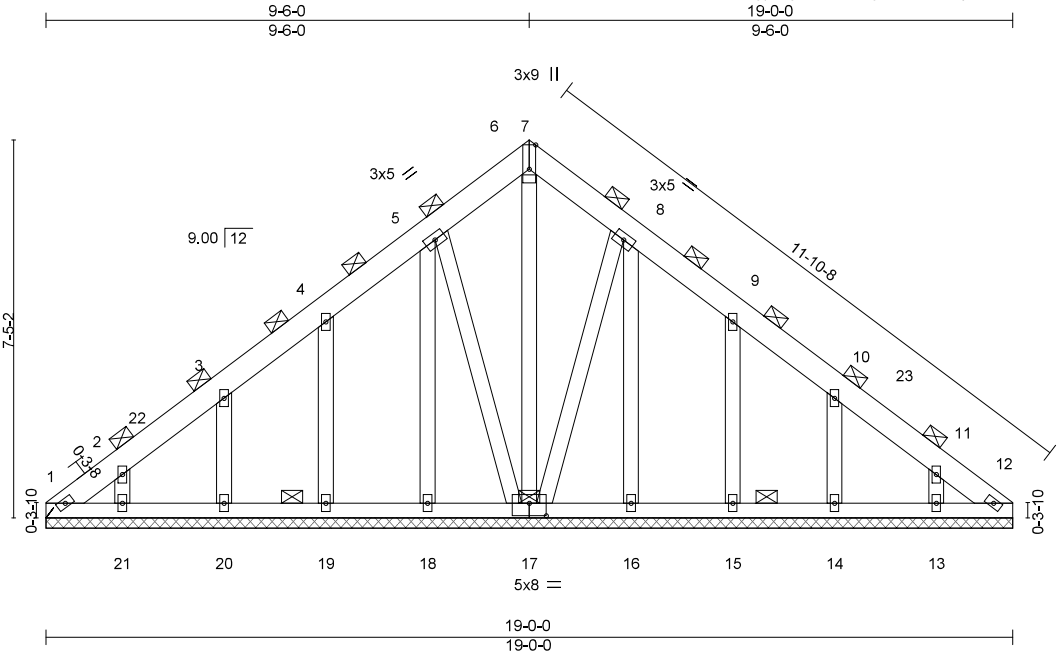
October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233	I69114993
117380	G0398701	GABLE	1	1	Job Reference (optional)	

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:09 2024 Page 1

ID:JzM6o4fXsx2lZTEGt34CNgyvRjG-WxAY4gIL45Z8sGop_YHlHUtxYC?exdHum21_?OyQBQ8



57

Plate Offsets (X,Y)-- [7:0-5-12,Edge], [17:0-4-0,0-3-0]

LOADING (psf)		SPACING-	3-1-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	54.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.00	6-7	n/r	120	MT20	185/144
(Ground Snow=151.5)		Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.00	6-7	n/r	90		
TCDL	8.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-P							Weight: 113 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD	2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD	2x4 HF No.2 or 2x4 SPF No.2
WEBS	2x4 HF Stud or 2x4 SPF Stud
OTHERS	2x4 HF Stud or 2x4 SPF Stud

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	4-9-0 oc bracing.

REACTIONS. All bearings 19-0-0.

(lb) - Max Horz 1=406(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 12, 17, 18, 16 except 1=-141(LC 10), 19=-213(LC 12), 20=-250(LC 12), 21=-218(LC 12), 15=-205(LC 13), 14=-252(LC 13), 13=-218(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 12 except 1=255(LC 23), 17=875(LC 19), 18=495(LC 18), 19=756(LC 18), 20=883(LC 18), 21=615(LC 18), 16=545(LC 19), 15=727(LC 19), 14=886(LC 19), 13=615(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-402/304, 2-3=-451/249, 3-4=-477/212, 4-5=-427/297, 5-6=-334/397, 6-8=-332/386, 8-9=-422/298, 9-10=-490/136, 10-11=-462/75, 11-12=-282/129
BOT CHORD	1-21=-155/282, 20-21=-155/282, 19-20=-155/282, 18-19=-155/282, 17-18=-155/282, 16-17=-107/264, 15-16=-105/263, 14-15=-105/263, 13-14=-105/263, 12-13=-105/263
WEBS	6-17=-427/81, 5-18=-464/72, 4-19=-726/253, 3-20=-852/311, 2-21=-587/307, 8-16=-514/58, 9-15=-697/242, 10-14=-855/313, 11-13=-587/307, 5-17=-342/191, 8-17=-390/185

NOTES- (13-15)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.8psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-2-1 to 3-2-1, Exterior(2N) 3-2-1 to 6-6-0, Corner(3R) 6-6-0 to 12-3-12, Exterior(2N) 12-3-12 to 15-9-15, Corner(3E) 15-9-15 to 18-9-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pg=151.5 psf; Ps=54.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.51; Ct=1.00; Unobstructed slippery surface
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 17, 18, 16 except (jt=lb) 1=141, 19=213, 20=250, 21=218, 15=205, 14=252, 13=218.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233	I69115006
117380	P2272201	QUEENPOST	1	1	Job Reference (optional)	

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:24 2024 Page 1

ID:JzM6o4fXsx2IZTEGt34CNgyvRjG-apaDDpxmYiS?9ZSiMC2HOf?TWF62yOo6DtAG00yQBPv

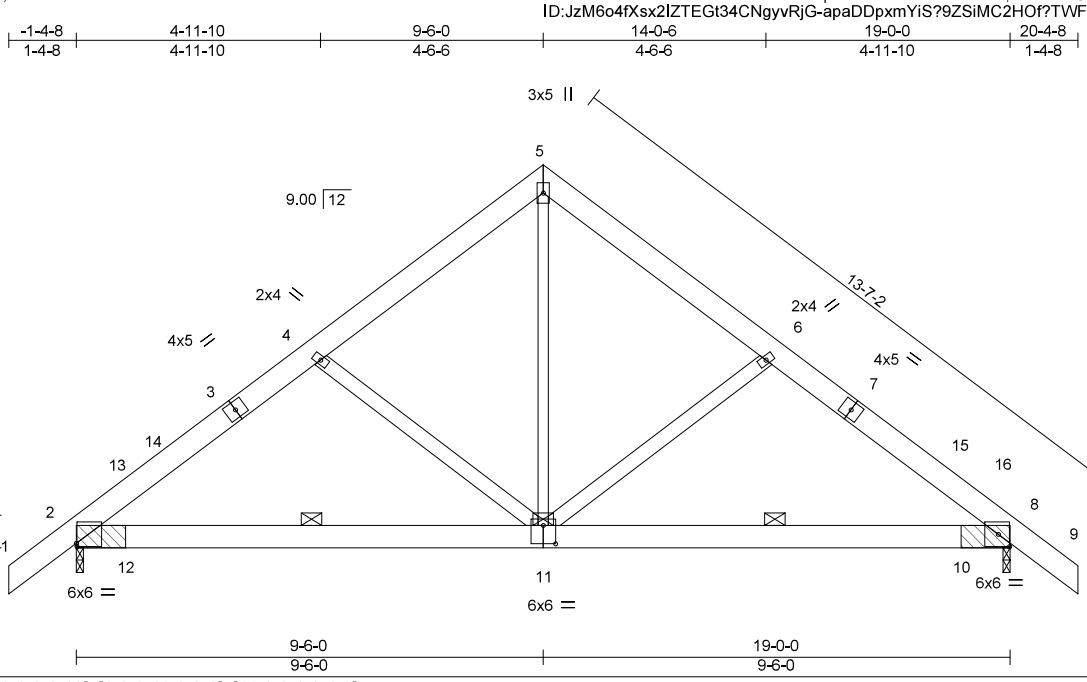


Plate Offsets (X,Y)-- [2:0-0-3,0-0-13], [8:0-2-12,0-3-0], [11:0-3-0,0-4-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	54.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.04	11	>999	240	MT20	185/144
(Ground Snow=151.5)		Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.05	2-11	>999	180		
TCDL	8.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0 *	Code IBC2021/TPI2014		Matrix-P							Weight: 107 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD	2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD	2x6 SPF 2100F 1.8E
WEBS	2x4 HF No.2 or 2x4 SPF No.2 *Except* 5-11: 2x3 SPF Stud

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-2-0 oc purlins.
BOT CHORD	4-9-0 oc bracing.

REACTIONS. (size) 2=0-1-12, 8=0-1-12
Max Horz 2=-206(LC 10)
Max Uplift 2=-251(LC 12), 8=-251(LC 13)
Max Grav 2=1388(LC 19), 8=1388(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-4=-1750/397, 4-5=-1128/347, 5-6=-1128/347, 6-8=-1750/397
BOT CHORD	2-11=-245/1246, 8-11=-156/1246
WEBS	4-11=-740/259, 5-11=-272/596, 6-11=-740/259

NOTES- (11-13)

1) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 2 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
2) 2x6 SPF 2100F 1.8E bearing block 12" long at jt. 8 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF 2100F 1.8E.
3) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.8psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-4-8 to 1-7-8, Exterior(2N) 1-7-8 to 6-6-0, Corner(3R) 6-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 17-4-8, Corner(3E) 17-4-8 to 20-4-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pg=151.5 psf; Ps=54.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.51; Ct=1.00; Unobstructed slippery surface
5) Roof design snow load has been reduced to account for slope.
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 106.1 psf on overhangs non-concurrent with other live loads.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=251, 8=251.
11) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
12) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss complies with CBC 2022 Section 2303.4.

LOAD CASE(S) Standard

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP: 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

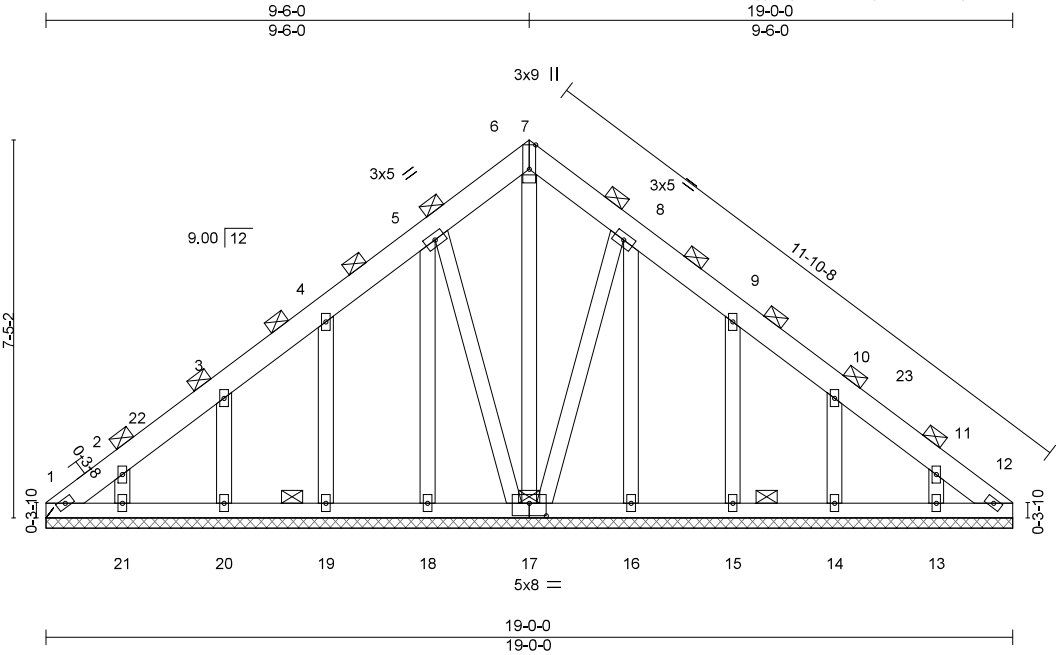
October 29,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Boxabl 233	I69114993
117380	G0398701	GABLE	1	1	Job Reference (optional)	

UFP Industries Inc., Grand Rapids, MI 49525 — 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Oct 24 13:29:09 2024 Page 1

ID:JzM6o4fXsx2lZTEGt34CNgyvRjG-WxAY4gIL45Z8sGop_YHlHUtxYC?exdHum21_?OyQBQ8



57

Plate Offsets (X,Y)-- [7:0-5-12,Edge], [17:0-4-0,0-3-0]

LOADING (psf)		SPACING-	3-1-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	54.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.00	6-7	n/r	120	MT20	185/144
(Ground Snow=151.5)		Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.00	6-7	n/r	90		
TCDL	8.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-P							Weight: 113 lb	FT = 20%
BCDL	5.0											

LUMBER-

TOP CHORD	2x6 HF No.2 or 2x6 SPF No.2
BOT CHORD	2x4 HF No.2 or 2x4 SPF No.2
WEBS	2x4 HF Stud or 2x4 SPF Stud
OTHERS	2x4 HF Stud or 2x4 SPF Stud

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	4-9-0 oc bracing.

REACTIONS. All bearings 19-0-0.

(lb) - Max Horz 1=406(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 12, 17, 18, 16 except 1=-141(LC 10), 19=-213(LC 12), 20=-250(LC 12), 21=-218(LC 12), 15=-205(LC 13), 14=-252(LC 13), 13=-218(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 12 except 1=255(LC 23), 17=875(LC 19), 18=495(LC 18), 19=756(LC 18), 20=883(LC 18), 21=615(LC 18), 16=545(LC 19), 15=727(LC 19), 14=886(LC 19), 13=615(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-402/304, 2-3=-451/249, 3-4=-477/212, 4-5=-427/297, 5-6=-334/397, 6-8=-332/386, 8-9=-422/298, 9-10=-490/136, 10-11=-462/75, 11-12=-282/129
BOT CHORD	1-21=-155/282, 20-21=-155/282, 19-20=-155/282, 18-19=-155/282, 17-18=-155/282, 16-17=-107/264, 15-16=-105/263, 14-15=-105/263, 13-14=-105/263, 12-13=-105/263
WEBS	6-17=-427/81, 5-18=-464/72, 4-19=-726/253, 3-20=-852/311, 2-21=-587/307, 8-16=-514/58, 9-15=-697/242, 10-14=-855/313, 11-13=-587/307, 5-17=-342/191, 8-17=-390/185

NOTES- (13-15)

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.8psf; BCDL=3.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-2-1 to 3-2-1, Exterior(2N) 3-2-1 to 6-6-0, Corner(3R) 6-6-0 to 12-3-12, Exterior(2N) 12-3-12 to 15-9-15, Corner(3E) 15-9-15 to 18-9-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pg=151.5 psf; Ps=54.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.51; Ct=1.00; Unobstructed slippery surface
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 17, 18, 16 except (jt=lb) 1=141, 19=213, 20=250, 21=218, 15=205, 14=252, 13=218.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Approved For State of California
Factory Built Housing
By
MA Consulting & Engineering MACE, LLC.
Third Party Design Approval Agency (DAA)
Certificate Number: DF1570823

These plans have been approved pursuant to the provisions of The State of California Health and Safety Code, Division 13, Part 6 and California Code of Regulations, Title 25, Chapter 3, Subchapter 1
Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances nor it is applicable to movement of units over highways, county roads or city streets.

Generic Foundation Design Approved

Occupancy	Roof LL	Wind	Exp	Seismic Cat
R3	30 psf	115	C	E

Plan Approval No. MAC-FBH 10153
By: Mohsen Anis
Approval Date: 5/26/2025
Expiration Date: 1/11/2028

REGISTERED PROFESSIONAL ENGINEER
DAVID MERRILL BAXTER
S6332
EXP. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

October 29,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com