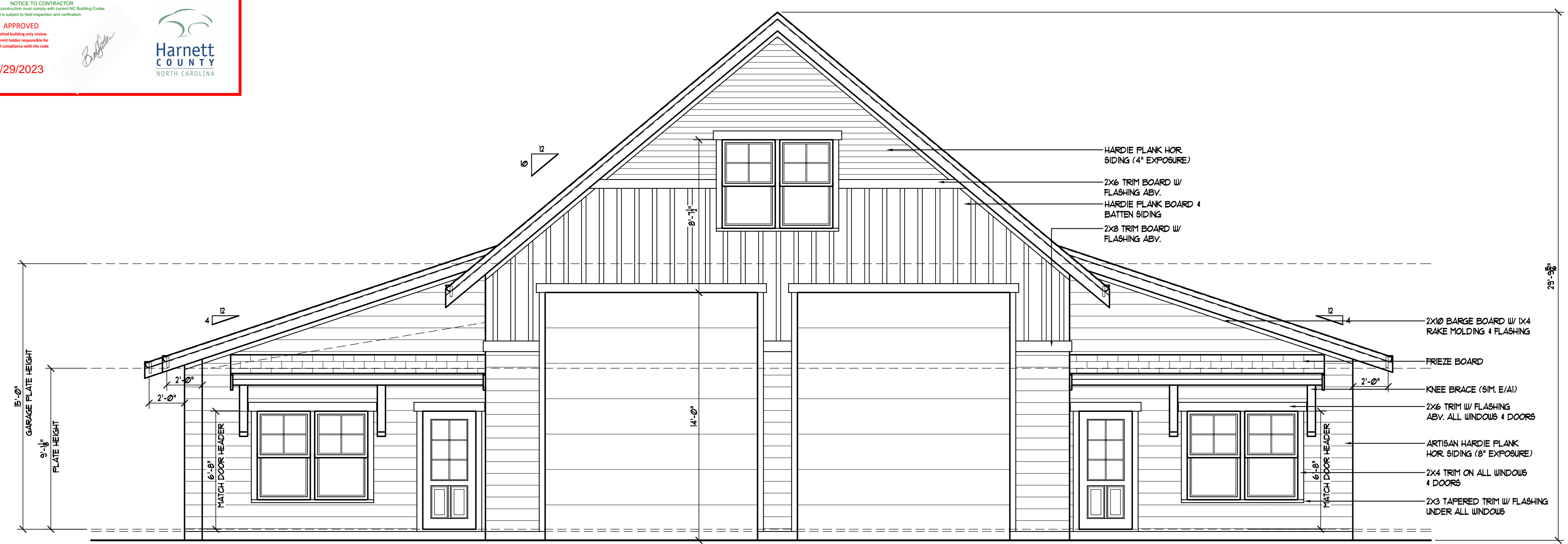


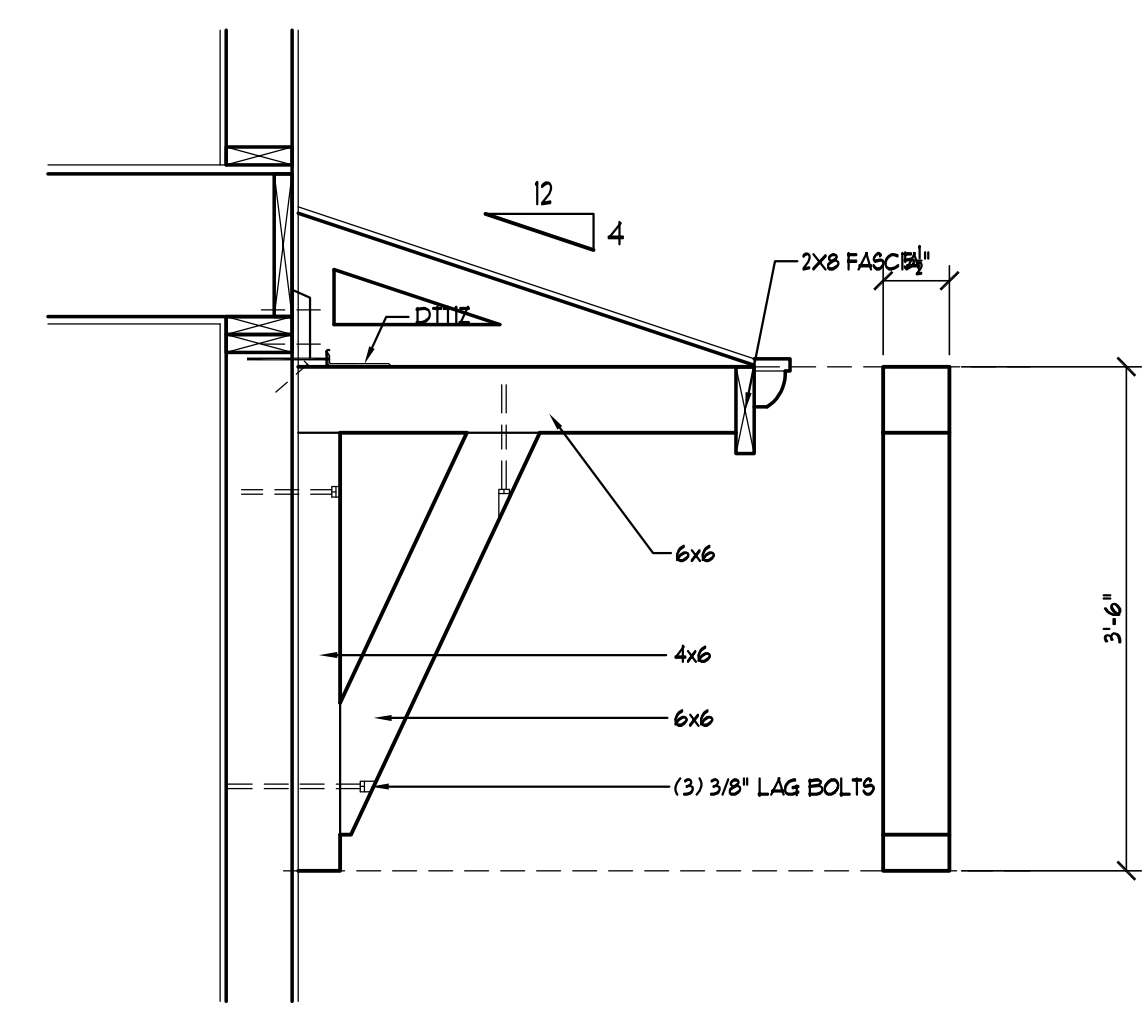
CONSTRUCTION SPECIFICATIONS

1. GENERAL NOTES: 2015 IRC
- A. SEISMIC DESIGN CATEGORY D1
 - B. WIND EXPOSURE AND SPEED 110mph, EXP. B
 - C. SNOW LOAD # 25 psf
 - D. FLOOR LIVE LOAD 40 psf
 - E. DECK LIVE LOAD 60 psf
 - F. SOIL BEARING PRESSURE 1500 psf
 - G. ALL GLASS IN DOORS, SIDELIGHTS, AND OTHER HAZARDOUS LOCATIONS TEMPERED GLASS (IRC 308.4)
2. FOUNDATION:
- A. FOOTINGS SHOWN AS MINIMUM ON DRAWING AND TO BE POURED ON CENTER OF WALL DIMENSIONS.
 - FOOTINGS ARE TO BE POURED ON UNDISTURBED OR PROPERLY COMPACTED SOIL.
 - 4" PERFORATED DRAIN PIPE IS TO BE LAID AROUND PERIMETER OF FOOTING AND OVERLAP 1/2" - 2" DRAIN ROCK.
 - B. FOUNDATION WALLS: TO BE BUILT TO SIZE SPECIFIED ON DRAWINGS AND THICKNESS SPECIFIED IS MINIMUM REQUIREMENTS. PLACED IN ACCORDANCE W/ FOUNDATION PLAN.
 - C. REINFORCEMENT STEEL: TO BE AS SPECIFIED THICKNESS CALLED OUT ON DRAWINGS AND TO BE DETAILED AND PLACED IN ACCORDANCE W/ BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND TO BE DEFORMED STEEL BARS CONFORMING TO ASTM A615, GRADE 40.
 - D. CONCRETE: SHALL BE OF "READY-MIXED CONCRETE" AND SHALL CONFORM TO ASTM C94 (B BACK OR BETTER)
 - AFTER CONCRETE HAS BEEN PROPERLY CURED IT SHALL HAVE A COMPRESSIVE STRENGTH OF 2500 PSI UNLESS OTHERWISE SPECIFIED.
 - E. CONCRETE WALL DAMP-PROOFING PER IRC 406
 - F. PORCHES, CARPORT SLABS, AND STEPS EXPOSED TO THE WEATHER AND GARAGE SLABS SHALL HAVE A COMPRESSIVE STRENGTH OF NO LESS THAN 3000 PSI PER IRC TABLE R402.2
3. FRAMING:
- A. FLOOR: TO BE FRAMED IN ACCORDANCE W/ SPECIFICATIONS OF DRAWINGS.
 - AND TO HAVE ALLOWABLE FLOOR LOAD AS SET FORTH IN IRC SEC R502.3 AND R502.3.2
 - ALL STRUCTURAL MEMBERS OF FLOOR TO BE PROPERLY SET AND FASTENED IN ACCORDANCE W/ IRC.
 - STRUCTURAL LUMBER TO BE #2 DOUGLASS FIR OR BETTER.
 - B. WALLS: EXTERIOR WOOD FRAMED WALLS TO BE 2x6 DF-L #2 W/ STUDS @ 16" O.C. PER IRC 602.3, HEIGHT OF EXTERIOR WALL TO BE AS SHOWN.
 - ALL EXTERIOR WALLS SHALL BE SHEATHED W/ 1/2" STRUCTURAL PLYWOOD OR 7/8" OSB SHEATHING.
 - BRACING WILL BE DETAILED IN PLAN.
 - ALL WINDOW HEADERS AND BEARING WALL BEAMS TO BE 4x10 UNLESS SPECIFIED ON DRAWINGS.
 - INTERIOR WALLS TO BE 2x4 CONSTRUCTION PLACED @ 16" O.C. STUD HEIGHT TO BE AS SHOWN.
 - INTERIOR BATHROOM WALLS W/ EXTENSIVE PLUMBING FIXTURES MAY HAVE 2x6 FRAMED WALLS TO PROVIDE CLEARANCE AND COMFORTABLE WORKING SPACE.
 - BATHROOM WALL COVERINGS SHALL BE MOISTURE RESISTANT CEMENT PLASTER, TILE, OR APPROVED EQUAL TO 12 INCHES ABOVE DRAIN AT SHOWERS OR TUB W/ SHOWERS. (R102.2.5 & R102.4.2)
 - ALL NOTCHING & DRILLING OF FRAMING TO BE DONE IN ACCORDANCE WITH IRC 602.6 & 602.6.1
 - C. ROOF: DRAWINGS WILL SPECIFY TRUSSES OR RAFTER CONSTRUCTION.
 - ENG. TRUSS DETAIL TO BE CHECKED BY GENERAL CONTRACTOR OR BUILDING DESIGNER BEFORE INSTALLATION.
 - STANDARD SNOWLOAD TO BE VERIFIED PER STATE ISSUING JURISDICTION PER TOTAL LOAD UNLESS SPECIFIED OTHERWISE ON DRAWINGS.
 - ROOF SHEATHING TO BE 1/2" CDX STANDARD, BUT WILL VARY W/ ROOFING PRODUCT USED.
 - D. CONNECTIONS
 - ALL CONNECTORS ARE SPECIFIED AS SIMPSON EQUIVALENT LUMBERLOCK CONNECTORS WILL BE SATISFACTORY
 - NAILING SCHEDULE TO BE IN ACCORDANCE W/ TABLE R602.3 (1)
 - E. BEAM BEARING POINTS IN WALLS (B.P.)
 - ALL BEAM B.P. IN WALLS MUST HAVE 2x STUDS NAILED TOGETHER TO A MIN. WIDTH NOT LESS THAN BEAM BEING SUPPORTED
4. ENERGY CODE: COMPLY WITH WASHINGTON STATE ENERGY CODE
- A. ALL WINDOWS & DOORS TO BE SEALED INTO WALL W/ CAULKING & WEATHERSTRIPPING
 - B. ALL FRAMING INTERSECTIONS BETWEEN CONDITIONED TO UNCONDITIONED WALLS & FOUNDATIONS TO BE CAULKED TO STOP AIR LEAKAGE
 - C. ALL PENETRATIONS FOR PLUMBING, WIRING, & DUCTING TO BE SEALED
 - D. VENTILATION DUCTS SHALL HAVE R-4 INSULATION COVERING
 - E. PROVIDE 6" INTAKE DUCT WITHIN 4'-0" OF FURNACE FLENUM (DAMPERS & TIMER INTEGRATED INTO FURNACE SYSTEM)
5. INSULATION: (2015 IBC)
- A. MINIMUM INSULATION:
 - 1. CLG R-49 INSULATION OR R-38 ADVANCED FRAMING
 - 2. VAULT CLG R-38 INSULATION
 - 3. WALLS ABOVE GRADE R-21
 - 4. WALL INT BELOW GRADE R-21
 - 5. WALL EXT BELOW GRADE R-10
 - 6. FLOOR R-38
 - 1. SLAB ON GRADE - R-10 (ENTIRE SLAB)
 - B. ALL EXTERIOR WALLS: TO HAVE EITHER VAPOR BARRIER (A) OR (B) INSTALLED PER MANUFACTURER'S SPECS. WITH WINDOW & JOINT TAPE PER IRC 102.3 & TABLE IRC 102.3(1)
 - TYVEK HOUSE WRAP AND DUPONT FLASHING SYSTEMS FOR ALL WINDOWS AND DOOR. CONSULT DUPONT MANUAL AND REP. FOR INSTALLATION INSTRUCTIONS.
6. FLASHING:
- A. CONTRACTOR & HOME OWNER TO INSTALL ADEQUATE FLASHING AT ALL WATER INFILTRATION POINTS SUCH AS, BUT NOT LIMITED TO, WINDOWS, DOORS, DECKS, SKYLIGHTS, CHIMNEYS, VENTS, TRIM BOARDS, BALCONIES AND ROOF VALLEYS.
 - B. WATER PROOF DECKS AND BALCONIES TO BE FLASHED PER MANUF. SPECS. FOR WATER PROOF MEMBRANE.
 - C. ALL CAULKING MUST BE INSPECTED & MAINTAINED ANNUALLY BY HOME OWNER USING APPROVED EXTERIOR SIDING CAULK.
- CODES: VALLEY FLASHING - IRC 305.2.2, IRC 305.4, OTHER FLASHING - IRC 305.2.2, 305.3.3, 305.4.6, 305.6.6, 305.7.6 & 305.8.2
- WATERPROOFING WEATHER EXPOSED AREAS, IE DECKS & BALCONIES - IRC 103.4
- MASONRY - R103.3 AND WINDOWS - R610 AND R103.4
- MECHANICAL SPECIFICATIONS**
- THE MAXIMUM LENGTH OF A CLOTHES DRYER DUCT SHALL NOT EXCEED 35 FEET (10.668 M) FROM THE DRYER LOCATION TO THE WALL, OR ROOF TERMINATION. THE MAXIMUM LENGTH OF THE DUCT SHALL BE REDUCED 2.5 FEET (762 MM) FOR EACH 45-DEGREE (0.8 RAD) BEND AND 5 FEET (1524 MM) FOR EACH 90-DEGREE (1.6 RAD) BEND. THE MAXIMUM LENGTH OF THE EXHAUST DUCT DOES NOT INCLUDE THE TRANSITION DUCT. (M1502.4.5)
 - ELEMENTS OF APPLIANCES WHICH CREATE A GLOW SPARK OR FLAME SHALL BE LOCATED A MINIMUM OF 18" ABOVE THE GARAGE FLOOR. (MC 304.3)
 - EXHAUST DUCTS TO BE CONSTRUCTED OF SMOOTH-BORE, NONCOMBUSTIBLE MATERIALS. APPROVED FLEX CONNECTORS NOT EXCEEDING 6 FT. IN LENGTH MAY BE USED IN CONNECTION WITH DOMESTIC DRYER EXHAUST. (MC 504.6)
 - HOT WATER TANKS HAVING FLEXIBLE PIPE CONNECTIONS AND OVER FOUR FEET TALL SHALL BE STRAPPED DOWN TO PREVENT OVERTURN IN AN EARTHQUAKE. (UPC 508.2)
 - PROVIDE PROTECTION OF GAS BURNING APPLIANCES PER IRC SEC M1301
 - EXHAUST AIR FROM BATHROOMS AND TOILET ROOMS SHALL BE EXHAUSTED DIRECTLY OUTDOORS (IRC M1501.2)
 - ALL EXHAUST OPENINGS SHALL TERMINATE NOT LESS THAN 3 FEET FROM PROPERTY LINES, OPENINGS, AND 10 FEET FROM MECHANICAL AIR INTAKES (UNLESS 3 FEET ADV.).
- PLUMBING SPECIFICATIONS**
- PROVIDE PRESSURE RELIEF VALVE FOR HOT WATER TANK DRAIN TO THE OUTSIDE OF THE BUILDING WITH DRAIN END NOT MORE THAN TWO FEET NOR LESS THAN 6" ABOVE THE GROUND, POINTING DOWN. (UPC 608.5)
 - PROVIDE AN AIR GAP FOR THE DISHWASHER IF PROVIDED. (UPC 801.4)
 - PROVIDE AN APPROVED BACK FLOW PREVENTION DEVICE AT ALL HOSE BIBBS. (UPC 608.4.1)
 - PROVIDE A CLEAN-OUT WHERE BUILDING DRAIN AND BUILDING SEWER LINES CONNECT. (UPC 113.1)
 - EACH HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL. (UPC 101.4)



FRONT ELEVATION

SCALE 1/4" = 1'-0"



KNEE BRACE DETAIL

SCALE 3/4" = 1'-0"



LEFT ELEVATION

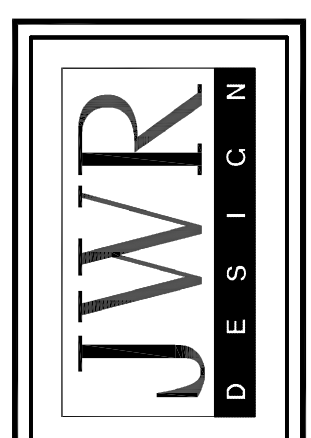
SCALE 1/4" = 1'-0"

Barndominium
501
Plan # 23-1073

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EXTERIOR ELEVATIONS

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DATE	3-20-23
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CHECKED	J.W.R.
SHEET	A1 OF A3

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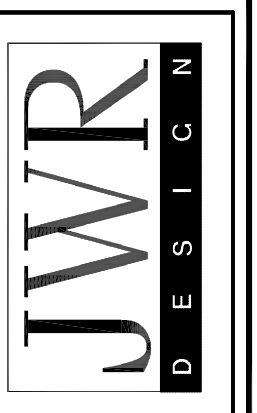
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Contractor shall verify and be responsible for all dimensions and conditions on the job, and JWR must be notified of any variations from the dimensions and conditions shown on these drawings. Shop details should be submitted to JWR for review before proceeding with fabrication.

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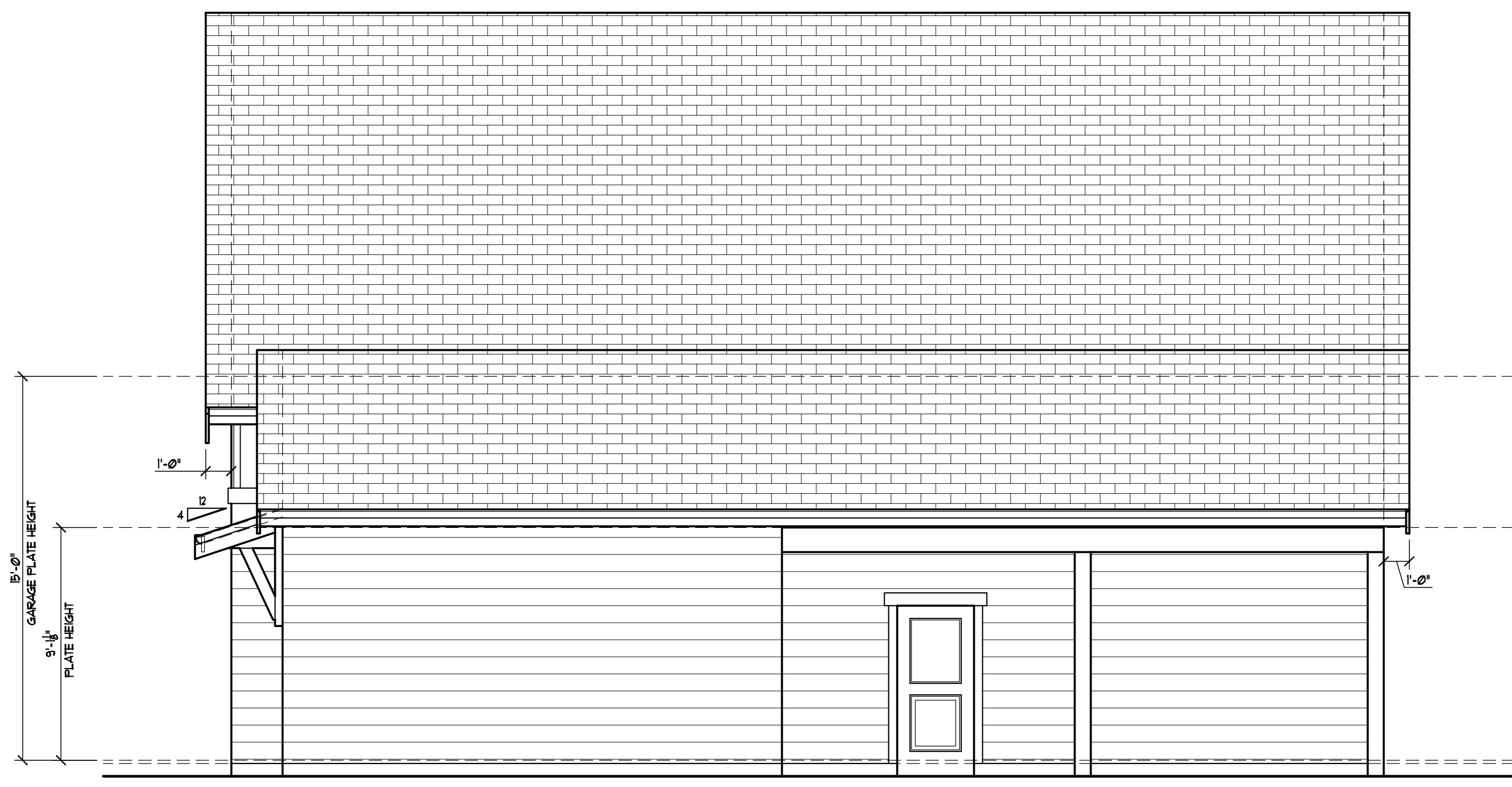


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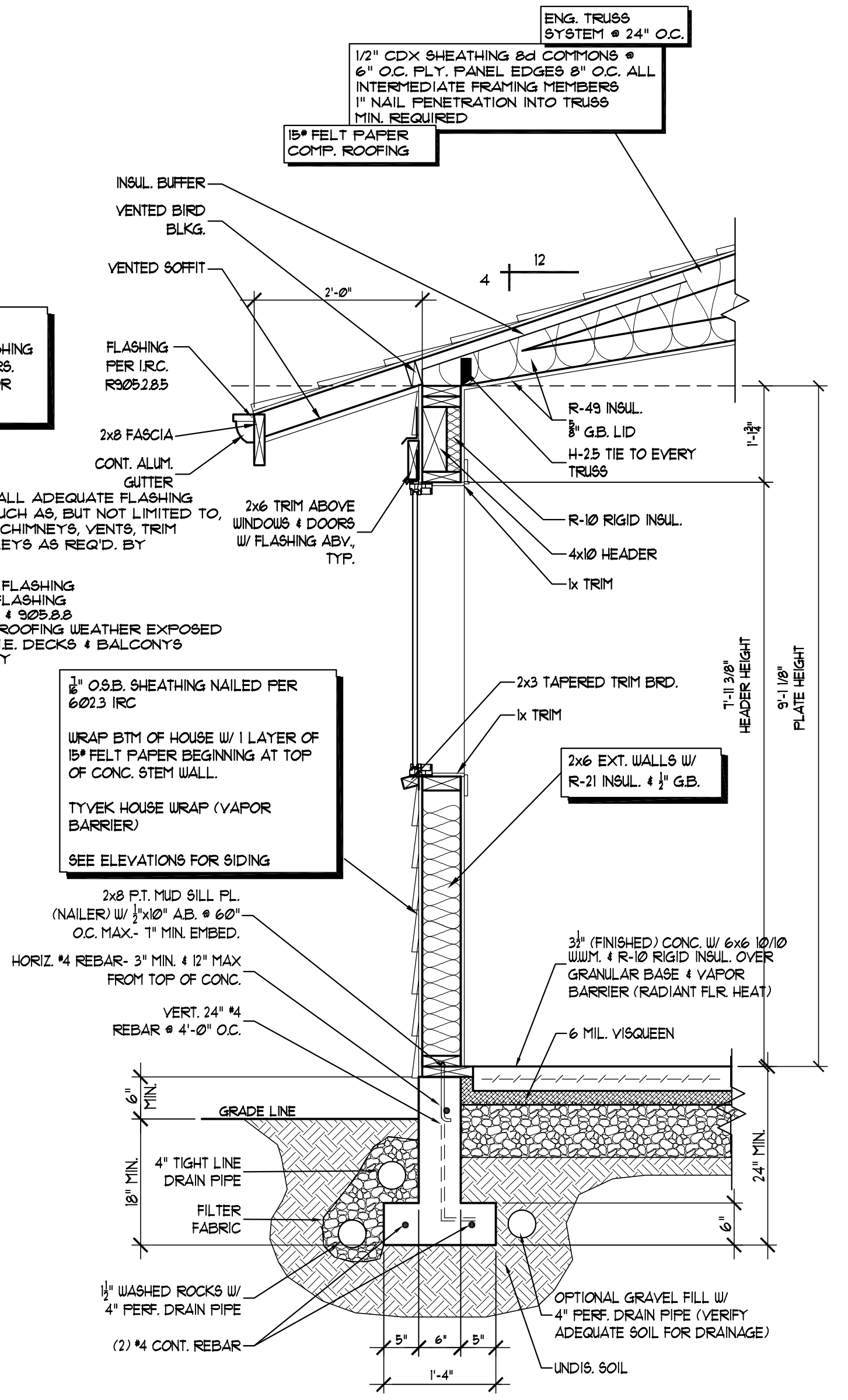
REAR ELEVATION

SCALE 1/4" = 1'-0"



RIGHT ELEVATION

SCALE 1/4" = 1'-0"



TYPICAL WALL DETAIL

SCALE 3/4" = 1'-0"

WINDOW & TYVEK INSTALLATION
TYVEK HOUSE WRAP AND DUPONT FLASHING SYSTEMS FOR ALL WINDOWS AND DOORS. CONSULT DUPONT MANUAL AND REP FOR INSTALLATION INSTRUCTIONS.

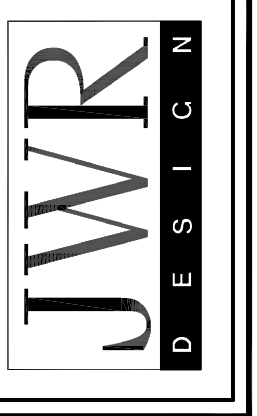
NOTE FLASHING:
CONTRACTOR & HOME OWNER TO INSTALL ADEQUATE FLASHING AT ALL WATER INFILTRATION POINTS SUCH AS, BUT NOT LIMITED TO, WINDOWS, DOORS, DECKS, SKYLIGHTS, CHIMNEYS, VENTS, TRIM BOARDS, BALCONYS AND ROOF VALLEYS AS REQ'D. BY ALL LOCAL BUILDING CODES

CODES: IRC 305.2.8/305.4.6 VALLEY FLASHING
IRC 305.2.8, 305.3.2, OTHER FLASHING
305.4.6, 305.6.6, 305.1.6 & 305.8.8
IRC 103.4 WATERPROOFING WEATHER EXPOSED AREAS, I.E. DECKS & BALCONYS
IRC 103.8 MASONRY

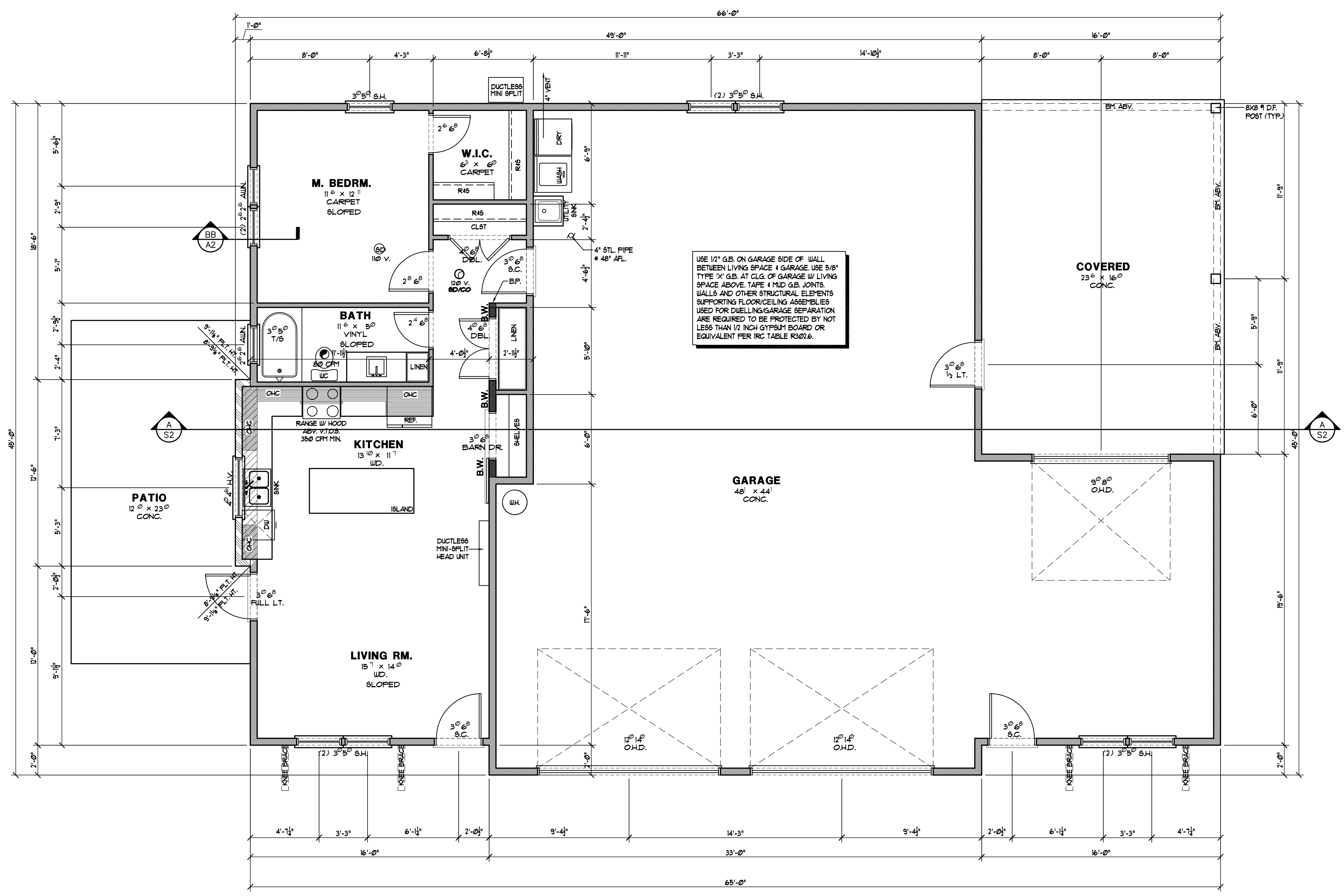
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MAIN FLOOR PLAN

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DATE	3-20-23
SCALE	AS NOTED
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SHEET	A3 OF A3



MAIN FLOOR PLAN

SCALE 1/4" = 1'-0"

DUCT CONSTRUCTION:
- DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILING SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM OF NO. 26 GAUGE SHEET STEEL AND HAVE NO OPENINGS INTO THE GARAGE. THIS WOULD ALSO PROHIBIT FILTER ACCESS OPENINGS IN THE RETURN AIR DUCT SYSTEM.

SMOKE ALARM NOTE:
- SMOKE ALARMS TO BE INTERCONNECTED OR WIRELESSLY CONNECTED SO THAT THE ACTIVATION OF ONE ALARM ACTIVATES ALL ALARMS IN A DWELLING UNIT.

DUCT SEALING & BLOWER TESTING:
- DUCTS LOCATED OUTSIDE THE CONDITIONED SPACE MUST BE SEALED & TIGHTNESS VERIFIED BY LEAKAGE TESTING PER USEC SECTION 403.22, AND INSULATED TO A MINIMUM OF R-8.
- AIR LEAKAGE TESTING REQUIRED FOR NEW HOUSES, MAXIMUM LEAKAGE ALLOWED PER USEC 403.22.

FURNACE & HOT WATER TANK NOTE:
- FURNACE & HOT WATER APPLIANCES SHALL BE DIRECT VENT.
- ALL COMBUSTION AIR TO COME DIRECTLY FROM EXTERIOR.
- 30" CLEAR SPACE IN FRONT OF FURNACE.
- APPLIANCES TO BE FASTENED IN PLACE PER CODE.
- WATER HEATER TO BE INSTALLED A MIN. OF 18" ABV. FLR.
- INSULATION FOR ALL HOT WATER PIPES SHALL HAVE A MIN. THERMAL RESISTANCE OF R-3 WITHIN AND OUTSIDE CONDITIONED SPACE. INS. CAN BE INTERRUPTED WHEN PASSING THROUGH JST, STUDS, & STRUCTURAL MEMBERS, OR WHERE PASSING OTHER PIPING, CONDUIT, OR VENTS, PROVIDED THE INS. IS SECURED TIGHTLY TO EACH OBSTRUCTION.

WHOLE HOUSE VENTILATION SYSTEMS SHOULD COMPLY WITH MS0713:
- FAN NOISE, WHOLE HOUSE FANS LOCATED 4' OR LESS FROM INTERIOR GRILL, SHALL HAVE A SONE RATING OF 19 IN WATER GAUGE.
- OUT DOOR AIR SHALL BE DISTRIBUTED TO EACH HABITABLE SPACE BY INDIVIDUAL OUTDOOR AIR INLETS.
- DOORS SHALL BE UNDERCUT TO A MIN. OF 1/2" ABV. FIN FLR COVERING.
- INDIVIDUAL R41 OUTDOOR AIR INLETS SHALL PROVIDE NOT LESS THAN 4 SQ. IN. OF NET FREE AREA OF OPENING FOR EA. HABITABLE SPACE.

FLOOR PLAN NOTES:
1. VINYL FRAME WINDOWS TYPICAL. ROUGH OPENINGS MAY VARY, VERIFY PER MFG. SPECS.
2. CABINET DESIGN BY OTHERS TO BE VERIFIED W/ ACTUAL FRAMED (AS BUILT) DIMENSIONS ON SITE.
3. FOR ALL BEAM SIZES & LOCATIONS REFER TO STRUCTURAL FRAMING PLANS & ENGINEERING CALCS DURING CONSTRUCTION.
4. SEE STRUCTURAL PLANS: FOUNDATION, FRAMING & SHEAR WALL SHEETS FOR ALL SHIPSON HOLD-DOWNS AND STRAPS AND HANGERS.

FRAMING NOTE:
FOR ALL BEAM SIZES & LOCATIONS REFER TO STRUCTURAL FRAMING PLANS & ENGINEERING CALCS. DURING FRAMING CONSTRUCTION.

GUARDRAIL NOTE:
SHOP DRAWINGS, SIGNED & SEALED BY A REGISTERED DESIGN PROFESSIONAL, WILL BE REQUIRED FOR THE GUARDRAIL SYSTEMS AT THE STAIRS & DECK.

USE 1/2" G.B. ON GARAGE SIDE OF WALL BETWEEN LIVING SPACE & GARAGE. USE 5/8" TYPE 'X' G.B. AT CLG. OF GARAGE W/ LIVING SPACE ABOVE. TAPE & MID G.B. JOINTS. WALLS AND OTHER STRUCTURAL ELEMENTS SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR DWELLING/GARAGE SEPARATION ARE REQUIRED TO BE PROTECTED BY NOT LESS THAN 1/2" INCH GYPSUM BOARD OR EQUIVALENT PER IRC TABLE R302.6.

HIGH EFFICIENCY HVAC EQUIPMENT 3D. 102
- DUCTLESS SPLIT SYSTEM HEAT PUMPS, ZONAL CONTROL. IN HOMES WHERE THE PRIMARY SPACE HEATING SYSTEM IS ZONAL ELECTRIC HEATING, A DUCTLESS HEAT PUMP SYSTEM SHALL BE INSTALLED AND PROVIDE HEATING TO THE LARGEST ZONE OF THE HOUSING UNIT. TO QUALIFY FOR THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE HEATING EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY.

EFFICIENT WATER HEATING 5A. 8
- ALL SHOWERHEAD & KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE MAXIMUM FLOW RATES FOR ALL SHOWERHEADS, KITCHEN SINK FAUCETS, AND OTHER LAVATORY FAUCETS.

NOTE:
PROVIDE TEMPERED GLAZING IN ALL WINDOWS WITH EXPOSED AREAS GREATER THAN 8 SF, AND IN WINDOWS WITH BTM. EDGE LESS THAN 18" ABV. FLOOR.

CHIMNEY NOTE
BALLOON-FRAME CHIMNEY FROM MAIN FLOOR PLATFORM.

ABBREVIATION KEY

GB	= GYPSUM BOARD
SHR	= SHOWERHEAD
BLU	= BELOW
SF	= SQUARE FEET
RULL	= RAIN WATER LEADER
EW	= EACH WAY
CL	= CENTER LINE
FIN FL	= FINISHED FLOOR LEVEL
AFL	= ABOVE FLOOR LEVEL
BL	= BOTTOM OF
T.O.	= TOP OF
B.P.	= BEARING POINT
BW	= BEARING WALL
PT	= PRESSURE TREATED
DR	= DOUGLAS FIR
INT.	= INTERIOR
EXT.	= EXTERIOR
BY	= BEAM
ABV.	= ABOVE
EXP.	= EXPOSE
○	= HOSE BIB
+	= GAS STUB
⊕	= DOWN SPOUT

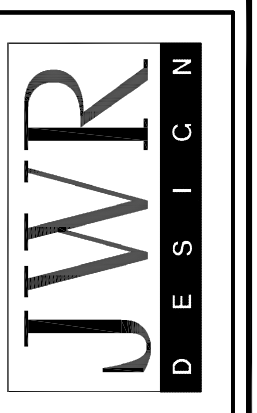
SQUARE FOOTAGE

LIVING SPACE:	184 SF.
GARAGE:	1,713 SF.
TOTAL:	2,497 SF.
COVERED:	376 SF.

REVISIONS	DATE	BY

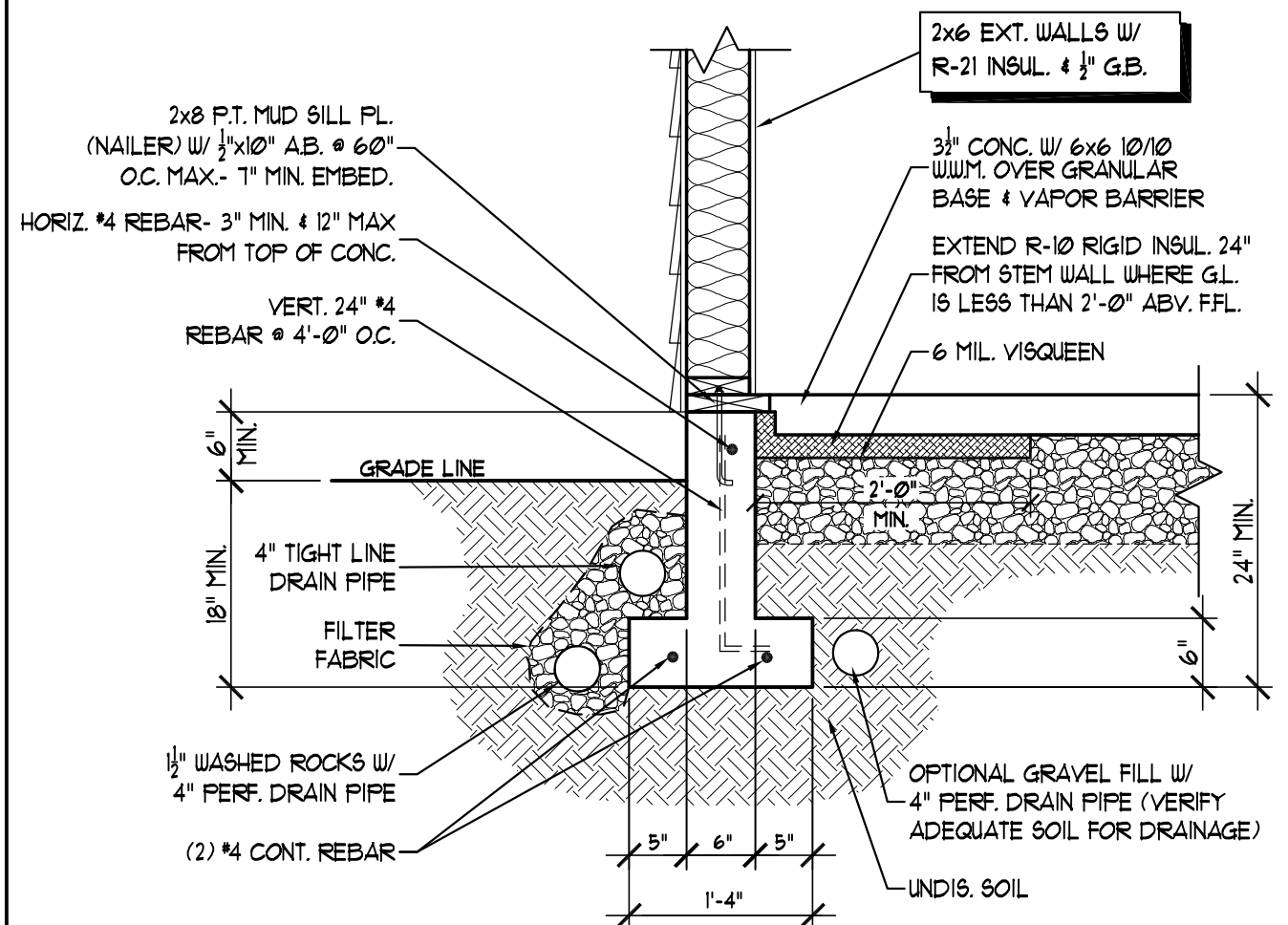
FOUNDATION PLAN

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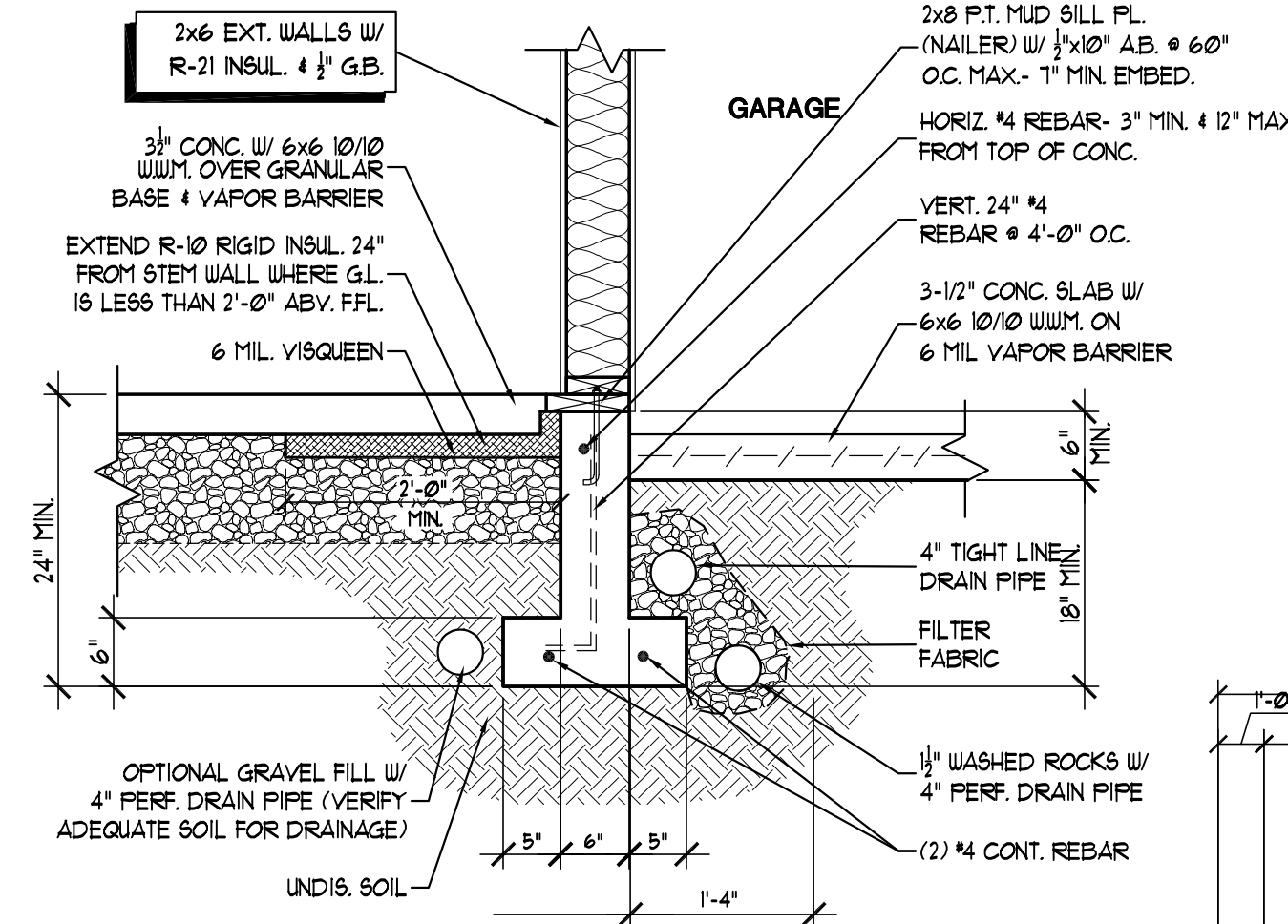
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S2



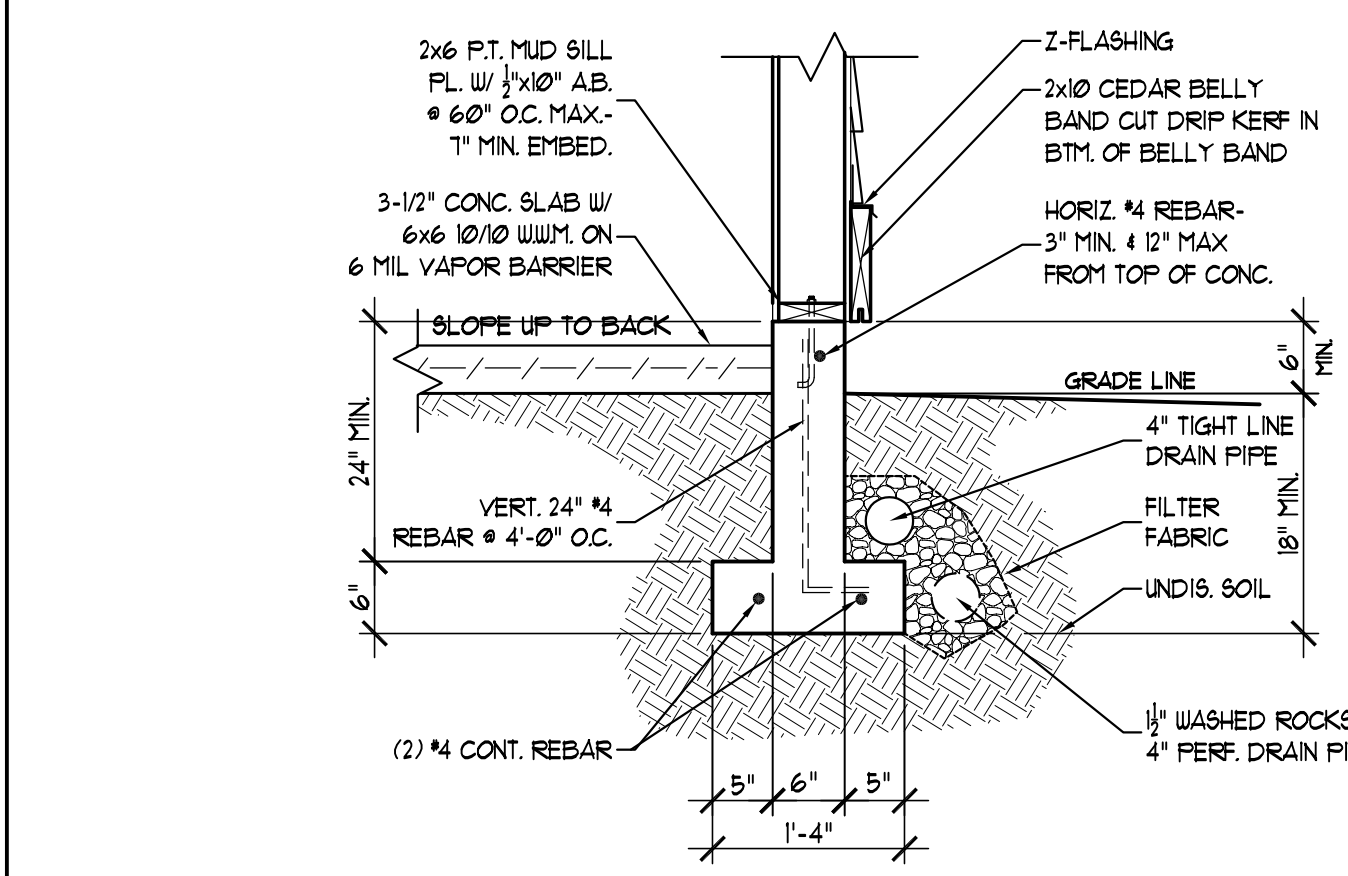
STEM WALL DETAIL

SCALE 3/4" = 1'-0"



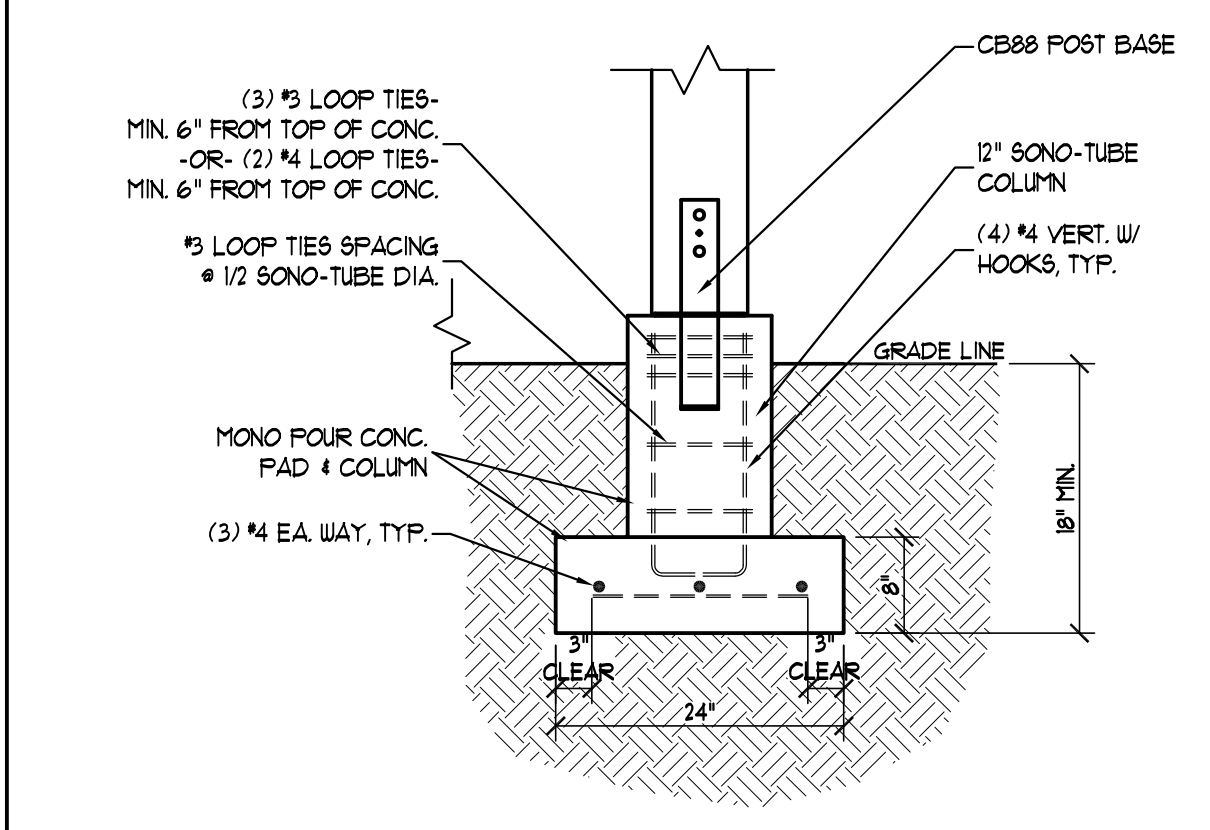
STEM WALL DETAIL

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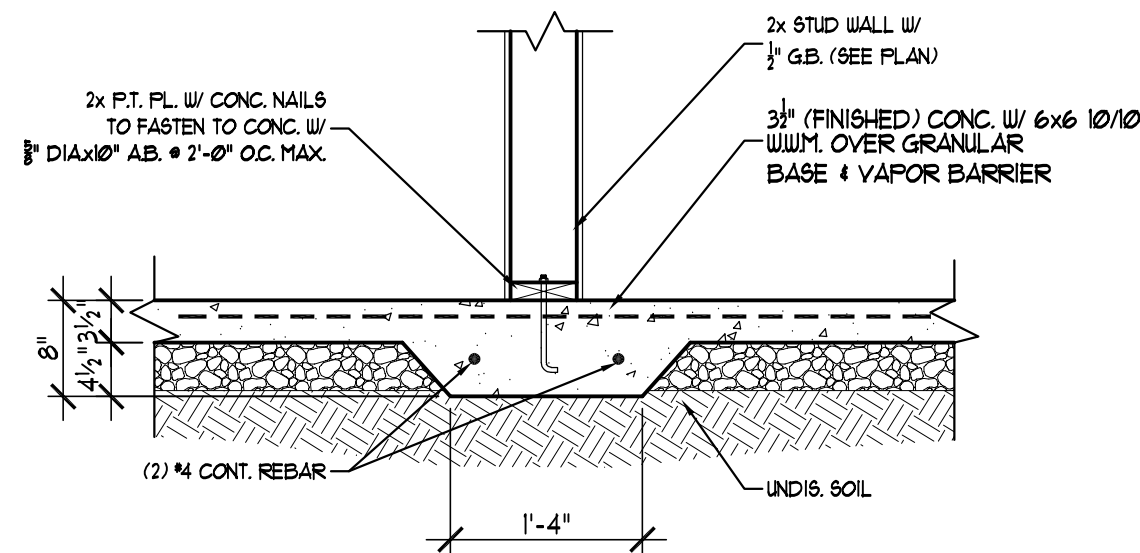
GARAGE FTG. DETAIL

SCALE 3/4" = 1'-0"



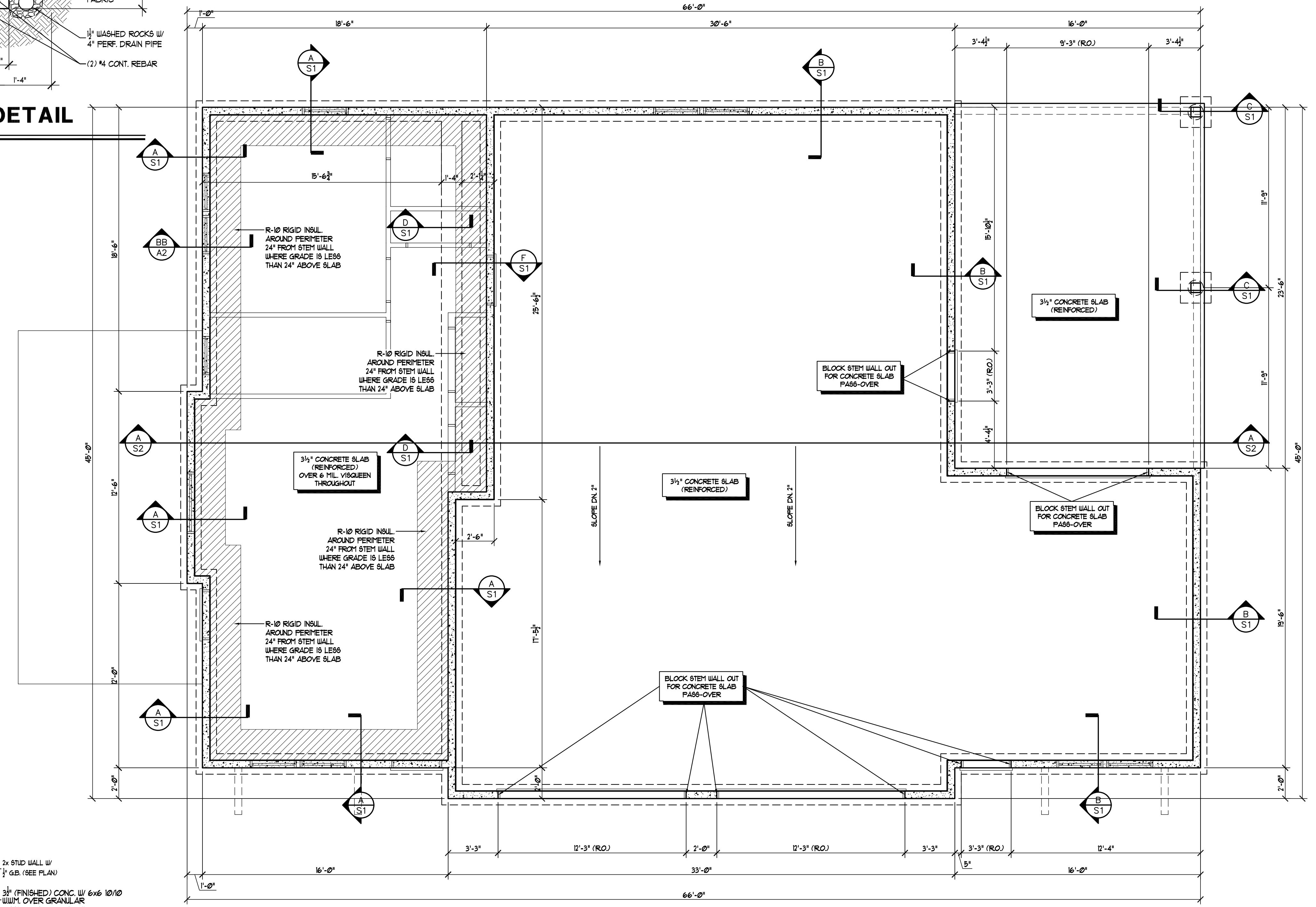
SONO TUBE CONC. PAD DETAIL

SCALE 3/4" = 1'-0"



BEARING WALL

SCALE 3/4" = 1'-0"

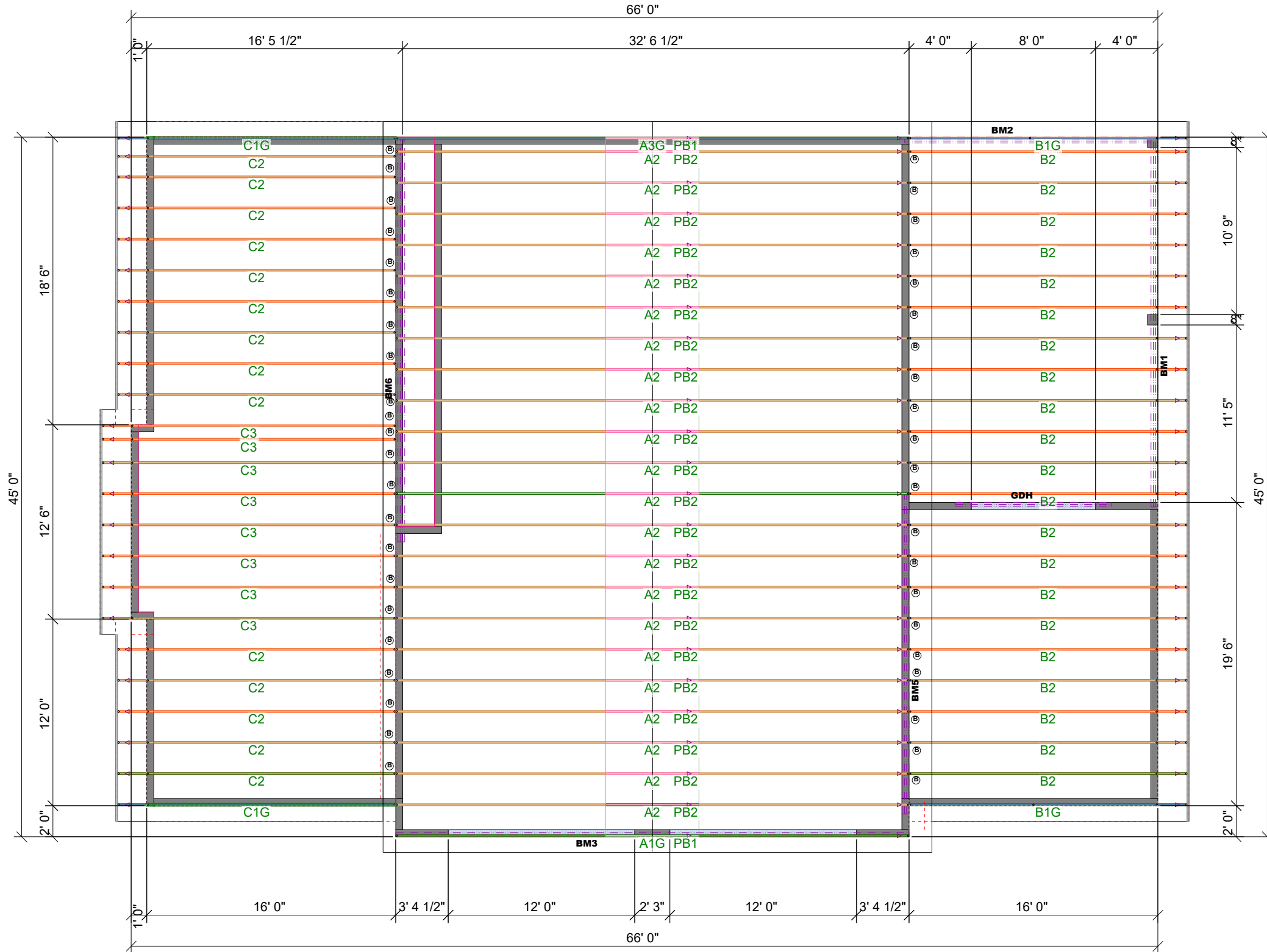


FOUNDATION PLAN

SCALE 1/4" = 1'-0"

THIS IS A TRUSS/COMPONENT PLACEMENT DIAGRAM (TPD) ONLY; NOT AN ENGINEERED DOCUMENT. Trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss design drawings (TDD's) for each truss design identified on the TPD. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. For general guidance regarding installation and bracing, consult "Building Component Safety Information" (BCSI) available from the SBC Association (www.sbcassociation.com). It is the responsibility of the General Contractor to verify that the provided component layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or 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 PROFESSIONAL DESIGNATED BY UFP. The Framing is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. Truss-to-wall connections, if shown, are for uplift only and do not consider lateral loads. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not truss-to-truss are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not truss-to-truss as they apply to this specific structure.

ROOF TRUSS CRITERIA	
BUILDING CODE	IRC2015
SNOW LOAD	
TOP CHORD DEAD LOAD	10.000 lb/ft ²
BOTTOM CHORD LIVE LOAD	0.000 lb/ft ²
BOTTOM CHORD DEAD LOAD	10.000 lb/ft ²
LIVE LOAD DEFLECTION	240
TOTAL LOAD DEFLECTION	180
ROOF AREA	3773.33 sq ft
RIDGE LINE	0 ft
VALLEY LINES	0 ft
HIP LINES	0 ft
△ INDICATES LEFT END OF TRUSS	



Roof Hanger List			
MARK	TYPE	DESCRIPTION	QTY
(B)	JUS26	FACE MOUNT HANGER	43

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM3	34' 0"	1 3/4" x 9 1/4" 2.0E Microllam® LVL	2	2	MFD
BM1	24' 0"	1 3/4" x 9 1/4" 2.0E Microllam® LVL	3	3	MFD
BM5	22' 0"	1 3/4" x 20" 2.0E Microllam® LVL	3	3	MFD
BM6	28' 0"	1 3/4" x 24" 2.0E Microllam® LVL	4	4	MFD

PLACEMENT PLAN

SCALE: N.T.S

REVISIONS	
DATE	DESCRIPTION

DESIGNER E. GRAHAM
 LAYOUT DATE 4/28/2023
 ARCH DATE -
 STRUC DATE -
 JOB #: 23042507

POPE BUILDERS

THOMPSON BARN

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Customer Service (800) 476-9356



Job 23042507	Truss A1G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Fri Apr 28 10:37:31

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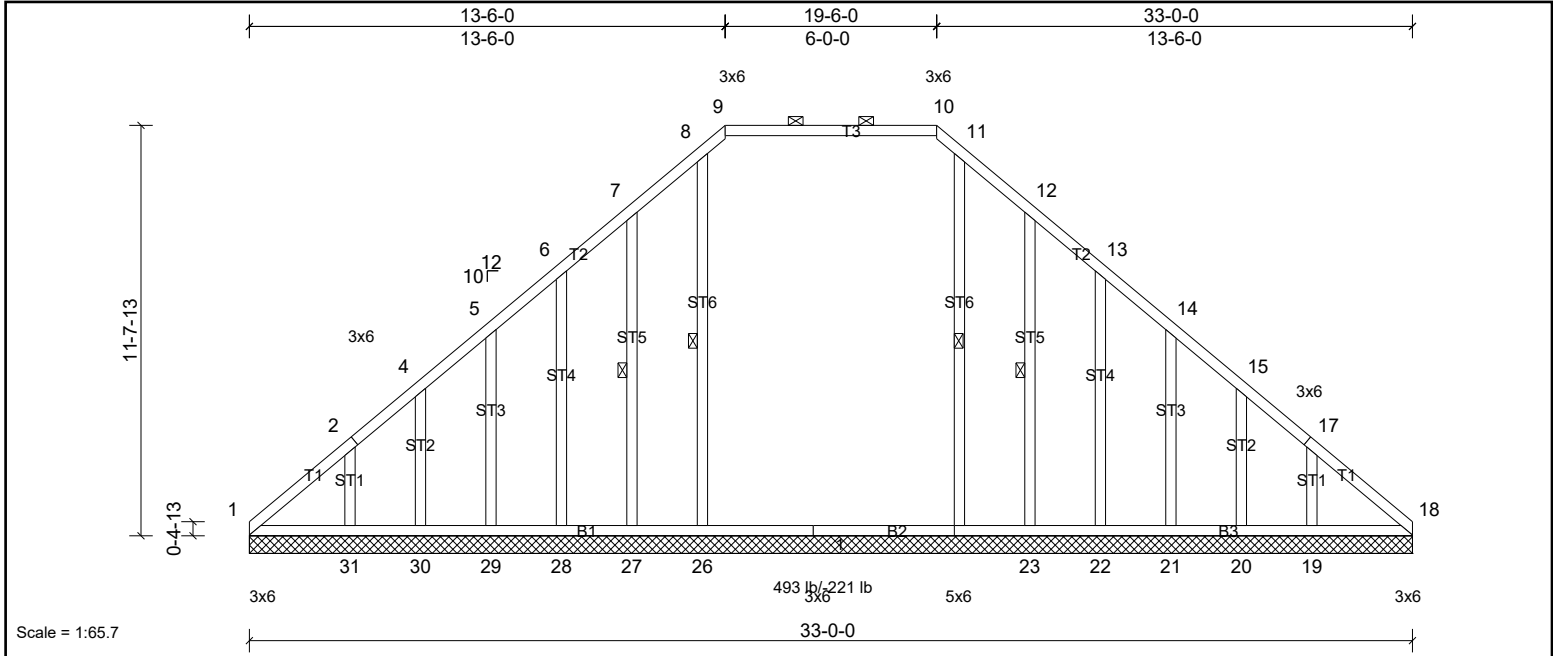


Plate Offsets (X, Y): [1:0-4-1,0-1-8], [3:0-1-11,Edge], [9:0-1-13,Edge], [10:0-1-13,Edge], [16:0-1-11,Edge], [18:0-4-1,0-1-8], [24:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.02	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 225 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 9-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 8-26, 11-24, 7-27, 12-23

REACTIONS
All bearings 33-0-0.
(lb) - Max Horiz 1=397 (LC 7), 32=397 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 26 except 1=193 (LC 6), 18=140 (LC 7), 19=220 (LC 11), 20=110 (LC 11), 21=149 (LC 11), 22=123 (LC 11), 23=209 (LC 11), 27=199 (LC 10), 28=125 (LC 10), 29=149 (LC 10), 30=109 (LC 10), 31=222 (LC 10), 32=193 (LC 6), 35=140 (LC 7)
Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 27, 28, 29, 30 except 1=375 (LC 19), 18=350 (LC 20), 19=283 (LC 18), 24=449 (LC 19), 26=494 (LC 20), 31=285 (LC 17), 32=375 (LC 19), 35=350 (LC 20)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-520/391, 2-3=-435/317, 3-4=-432/332, 4-5=-375/327, 5-6=-311/317, 6-7=-312/312, 7-8=-308/352, 8-9=-299/335, 9-10=-279/331, 10-11=-299/335, 11-12=-308/351, 12-13=-315/233, 13-14=-308/237, 14-15=-337/247, 15-16=-396/252, 16-17=-401/237, 17-18=-481/310
BOT CHORD 1-31=-245/383, 30-31=-245/383, 29-30=-245/383, 28-29=-245/383, 27-28=-245/383, 26-27=-245/383, 25-26=-245/383, 24-25=-245/383, 23-24=-244/383, 22-23=-244/383, 21-22=-244/383, 20-21=-244/383, 19-20=-244/383, 18-19=-244/383

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; 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
 - Truss designed for wind loads in the plane of the truss only.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26 except (jt=lb) 1=192, 18=139, 27=199, 28=124, 29=148, 30=109, 31=221, 23=208, 22=122, 21=148, 20=110, 19=220, 1=192, 18=139.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 32.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 23042507	Truss A2	Truss Type Truss	Qty 22	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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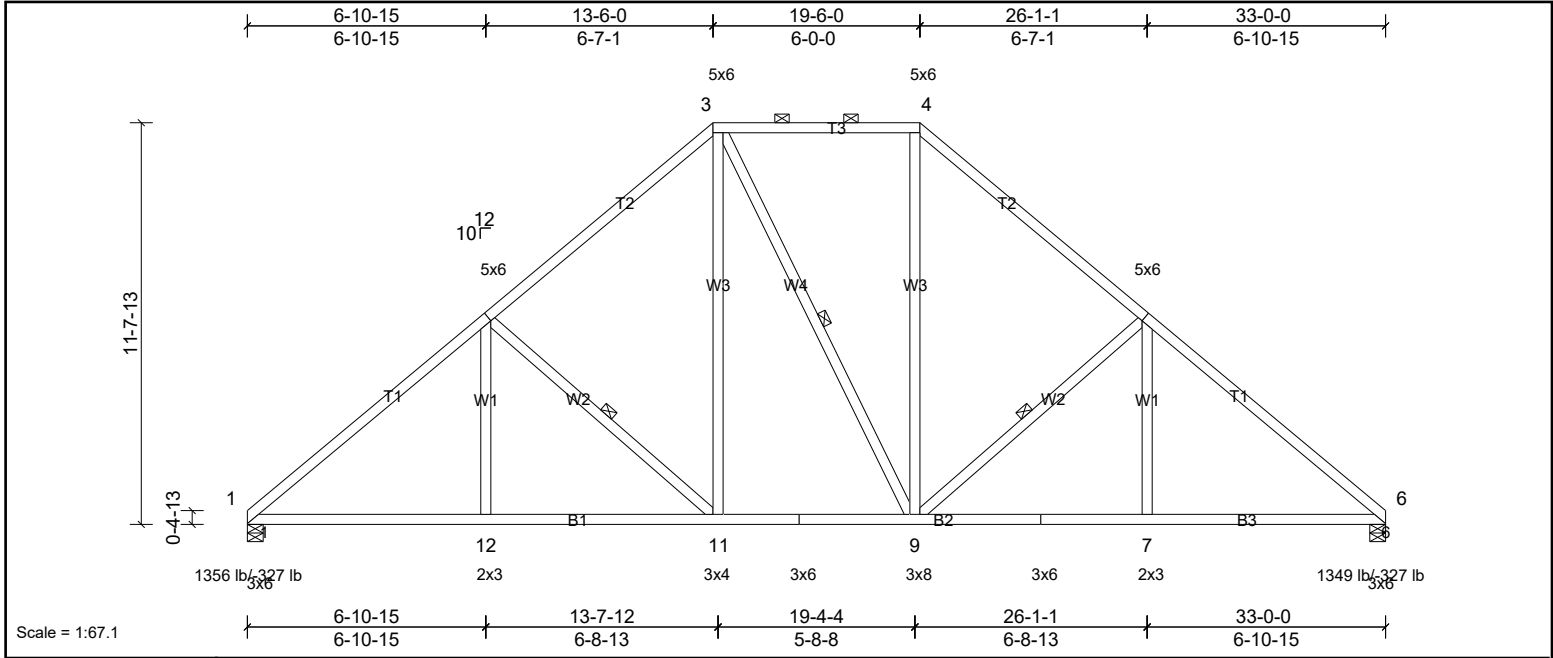


Plate Offsets (X, Y): [1:0-6-0,0-0-6], [2:0-3-0,0-3-4], [3:0-1-8,0-2-0], [5:0-3-0,0-3-4], [6:0-4-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.14	12-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.16	12-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 204 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-12 oc purlins, except 2-0-0 oc purlins (4-11-5 max.): 3-4.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-3-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 2-11, 3-9, 5-9
REACTIONS	(lb/size)	1=1320/0-5-8, (min. 0-1-10), 6=1320/0-5-8, (min. 0-1-9)	
	Max Horiz	1=-397 (LC 6)	
	Max Uplift	1=-327 (LC 10), 6=-327 (LC 11)	
	Max Grav	1=1356 (LC 2), 6=1349 (LC 2)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD		1-2=-1873/672, 2-3=-1396/693, 3-4=-1129/639, 4-5=-1385/693, 5-6=-1862/672	
BOT CHORD		1-19=-435/1573, 12-19=-435/1573, 12-20=-435/1570, 11-20=-435/1570, 10-11=-196/1066, 10-21=-196/1066, 9-21=-196/1066, 8-9=-355/1358, 8-22=-355/1358, 7-22=-355/1358, 7-23=-354/1361, 6-23=-354/1361	
WEBS		2-12=0/313, 2-11=-702/444, 3-11=-210/650, 4-9=-188/578, 5-9=-701/444, 5-7=0/315	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 1 and 327 lb uplift at joint 6.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard

Job 23042507	Truss A3G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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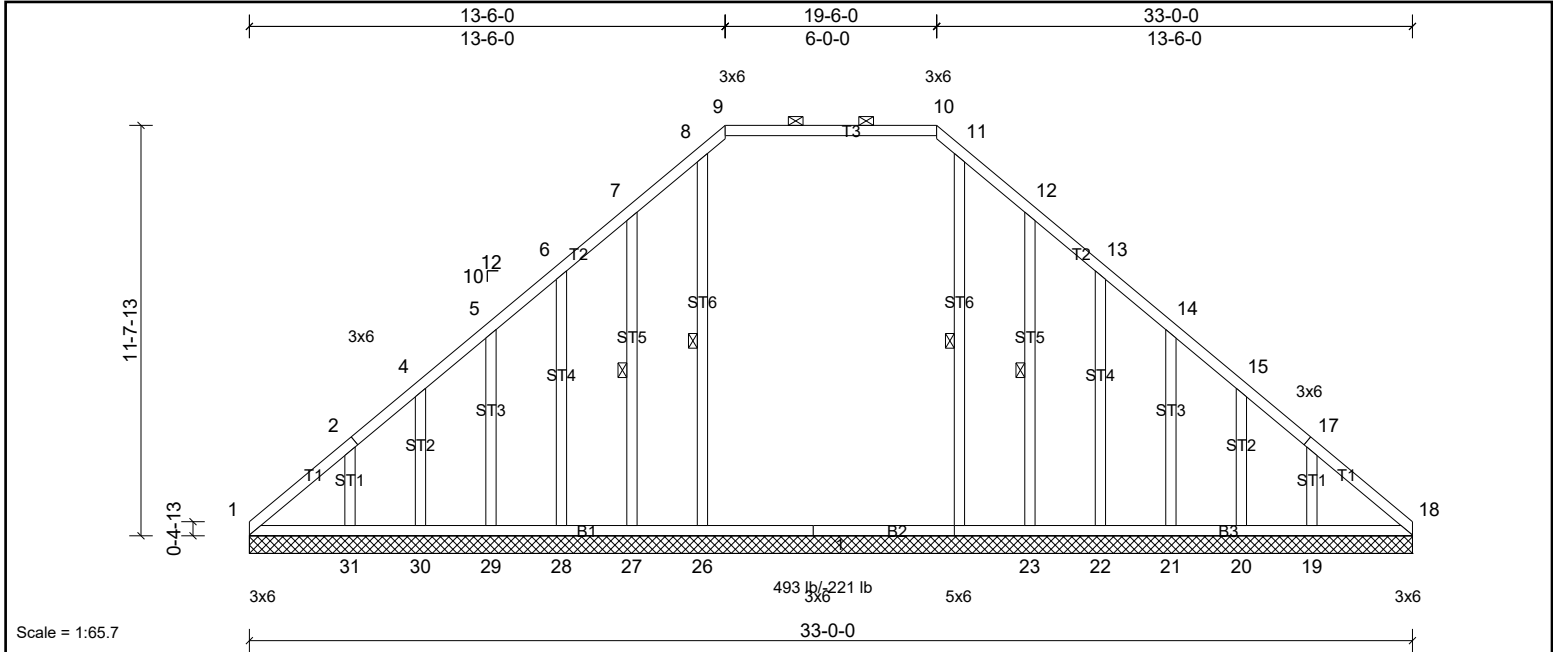


Plate Offsets (X, Y):	[1:0-4-1,0-1-8], [3:0-1-11,Edge], [9:0-1-13,Edge], [10:0-1-13,Edge], [11:0-0-0,Edge], [12:0-0-0,Edge], [13:0-0-0,Edge], [14:0-0-0,Edge], [15:0-0-0,Edge], [16:0-1-11,Edge], [17:0-0-0,Edge], [18:0-4-1,0-1-8], [24:0-3-0,0-3-0]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.02	18	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 225 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 9-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 8-26, 11-24, 7-27, 12-23

REACTIONS
All bearings 33-0-0.
(lb) - Max Horiz 1=-397 (LC 6), 32=-397 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) 26 except 1=-193 (LC 6), 18=-140 (LC 7), 19=-220 (LC 11), 20=-110 (LC 11), 21=-149 (LC 11), 22=-123 (LC 11), 23=-209 (LC 11), 27=-199 (LC 10), 28=-125 (LC 10), 29=-149 (LC 10), 30=-109 (LC 10), 31=-222 (LC 10), 32=-193 (LC 6), 35=-140 (LC 7)
Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 27, 28, 29, 30 except 1=375 (LC 19), 18=350 (LC 20), 19=283 (LC 18), 24=449 (LC 19), 26=494 (LC 20), 31=285 (LC 17), 32=375 (LC 19), 35=350 (LC 20)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-520/391, 2-3=-435/316, 3-4=-432/332, 4-5=-375/327, 5-6=-311/317, 6-7=-312/312, 7-8=-308/352, 8-9=-299/335, 9-10=-279/331, 10-11=-299/335, 11-12=-308/351, 12-13=-315/234, 13-14=-308/237, 14-15=-337/247, 15-16=-396/252, 16-17=-401/237, 17-18=-481/310
BOT CHORD 1-31=-245/383, 30-31=-245/383, 29-30=-245/383, 28-29=-245/383, 27-28=-245/383, 26-27=-245/383, 25-26=-245/383, 24-25=-245/383, 23-24=-244/383, 22-23=-244/383, 21-22=-244/383, 20-21=-244/383, 19-20=-244/383, 18-19=-244/383

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; 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
 - Truss designed for wind loads in the plane of the truss only.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26 except (jt=lb) 1=192, 18=139, 27=199, 28=124, 29=148, 30=109, 31=221, 23=208, 22=122, 21=148, 20=110, 19=220, 1=192, 18=139.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 18, 32, 35.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)	Standard
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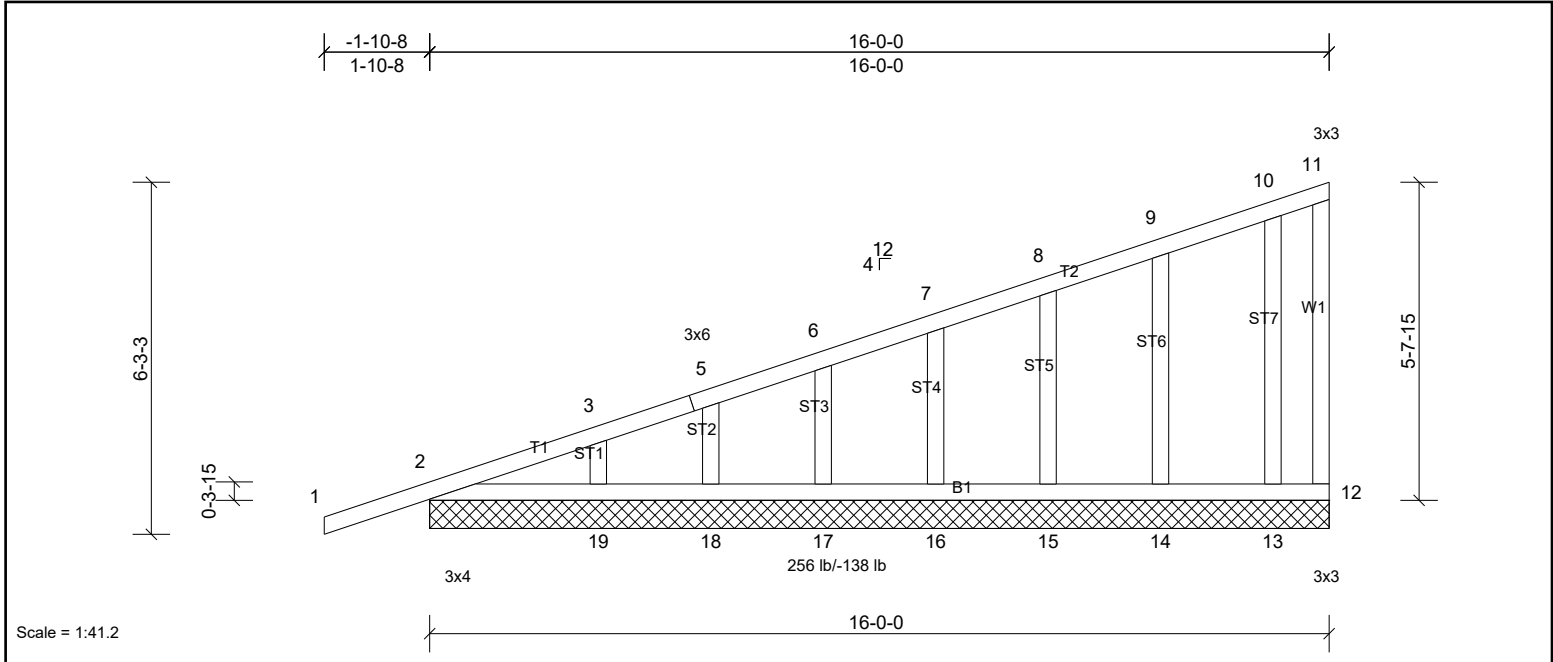
Job 23042507	Truss B1G	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Scale = 1:41.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 88 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS All bearings 16'-0-0.
(lb) - Max Horiz 2=336 (LC 9), 20=336 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19 except 2=-139 (LC 6), 20=-139 (LC 6)
Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19 except 2=256 (LC 1), 20=256 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES**
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; 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
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2'-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 17, 16, 18, 19, 15, 14, 13 except (jt=lb) 2=138, 2=138.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



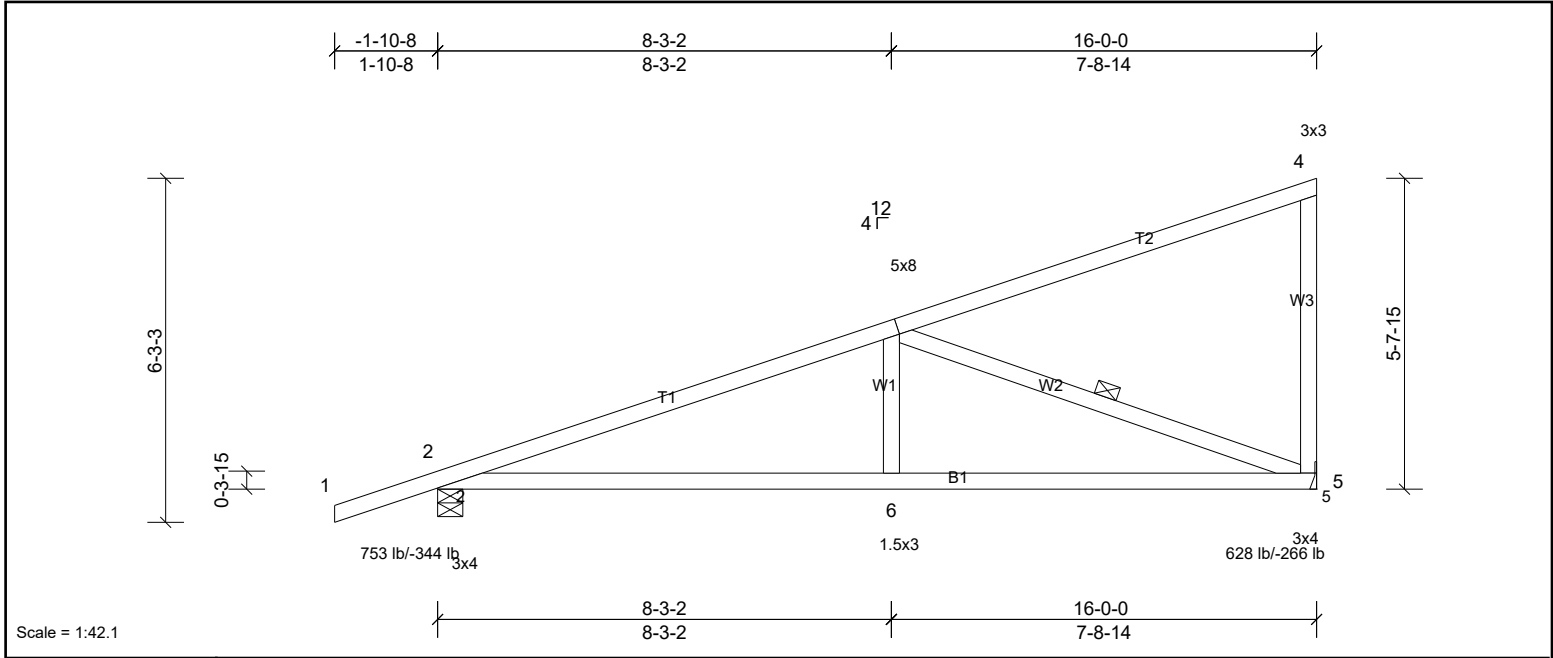
Job 23042507	Truss B2	Truss Type Truss	Qty 21	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Scale = 1:42.1

Plate Offsets (X, Y): [3:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.16	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.25	6-9	>756	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 75 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-6-4 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 3-5

REACTIONS	(lb/size)	2=753/0-5-8, (min. 0-1-8), 5=628/ Mechanical, (min. 0-1-8)
	Max Horiz	2=336 (LC 9)
	Max Uplift	2=-344 (LC 6), 5=-266 (LC 10)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1169/503
BOT CHORD	2-6=-443/1068, 5-6=-446/1061
WEBS	3-6=0/366, 3-5=-1110/602

- NOTES**
- 1) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 344 lb uplift at joint 2 and 266 lb uplift at joint 5.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 23042507	Truss C1G	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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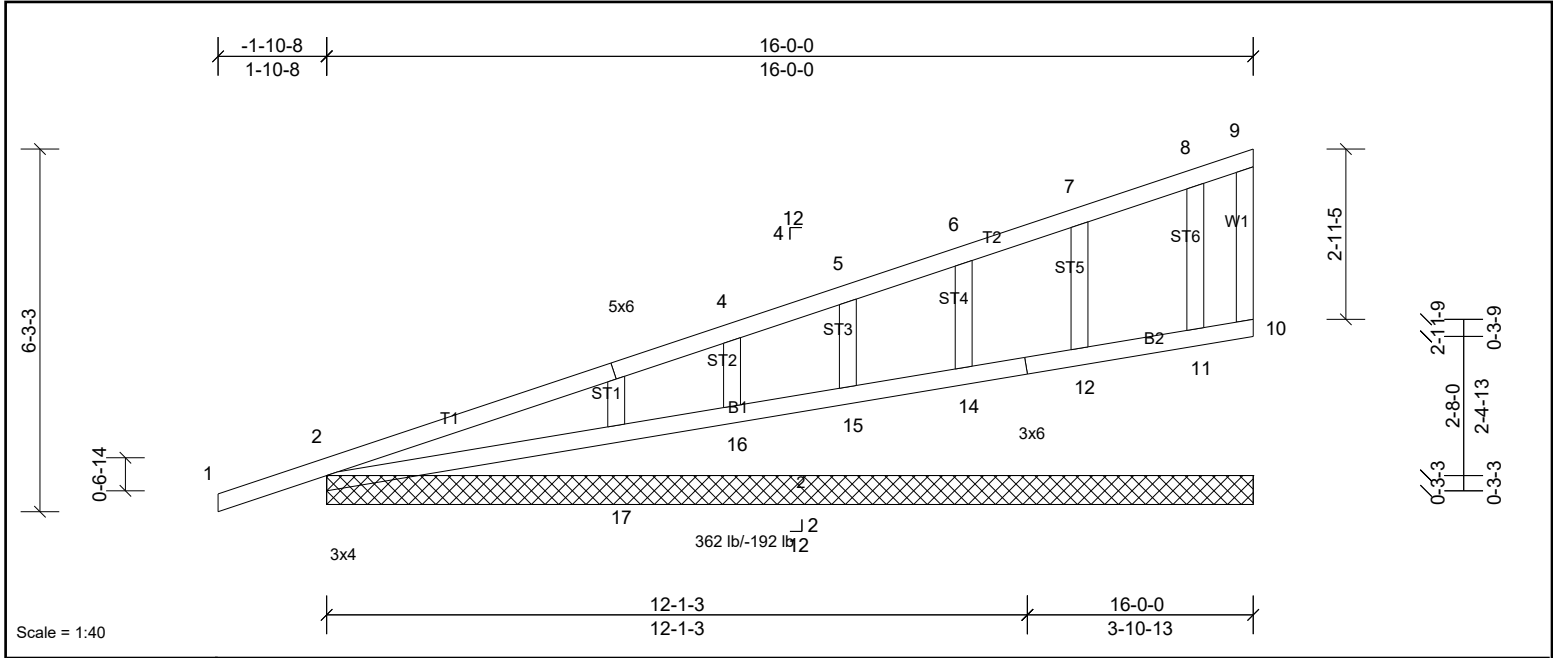


Plate Offsets (X, Y): [2:0-0-15,0-1-8], [3:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 72 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17,12-14.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS All bearings 16-0-0.
 (lb) - Max Horiz 2=282 (LC 7), 18=282 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12, 14, 15, 16 except 2=128 (LC 6), 17=192 (LC 10), 18=128 (LC 6)
 Max Grav All reactions 250 (lb) or less at joint(s) 10, 11, 12, 14, 15, 16 except 2=306 (LC 1), 17=362 (LC 1), 18=306 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=420/226
 WEBS 3-17=255/228

- NOTES**
- 1) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; 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.
 - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 10, 12, 11 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 capable of withstanding 100 lb uplift at joint(s) 10, 16, 15, 14, 12, 11 except (jt=lb) 17=192, 2=128, 2=128.
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 17, 16, 15, 14, 12, 11, 2, 18.
 - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

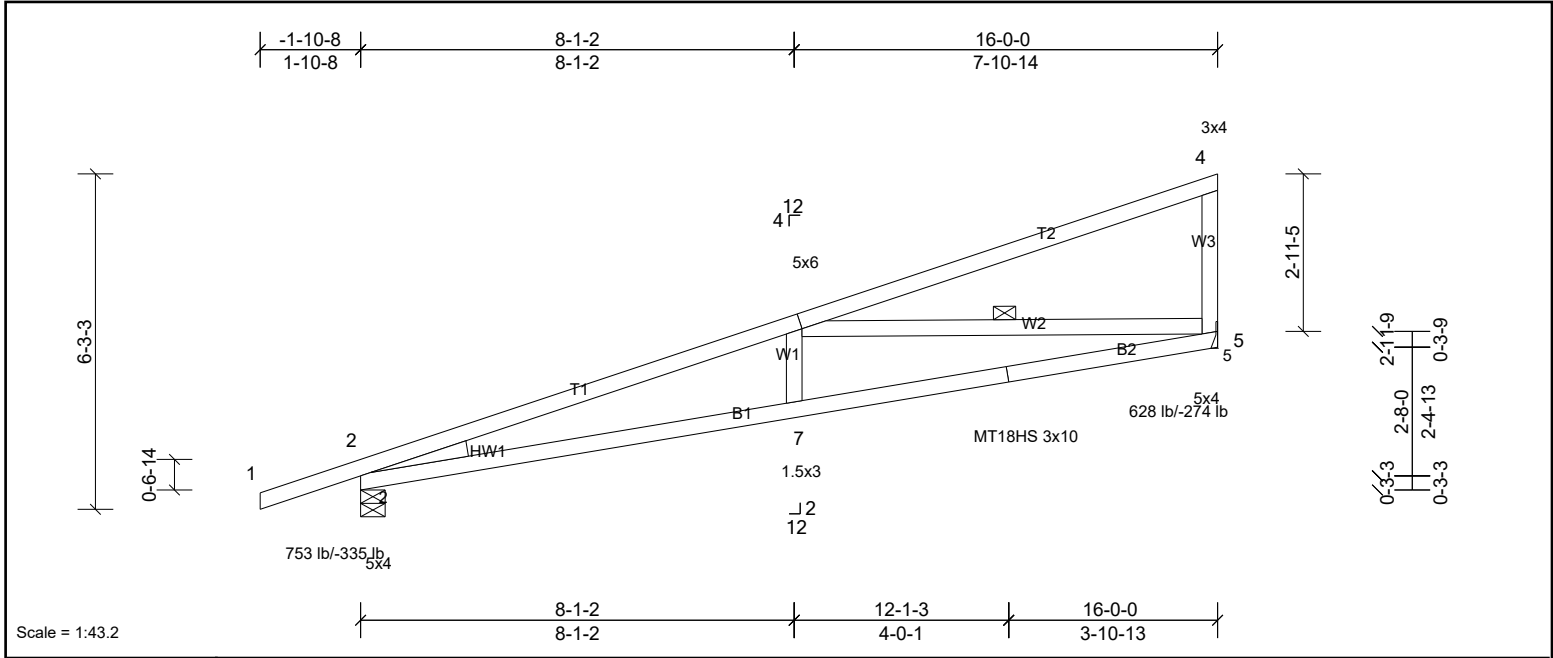
Job 23042507	Truss C2	Truss Type Truss	Qty 14	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	0.17	5-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.28	5-7	>675	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 72 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-1 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt
WEDGE	Left: 2x4 SP No.2		3-5

REACTIONS	
(lb/size)	2=753/0-5-8, (min. 0-1-8), 5=628/ Mechanical, (min. 0-1-8)
Max Horiz	2=282 (LC 7)
Max Uplift	2=-335 (LC 6), 5=-274 (LC 10)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1888/842
BOT CHORD	2-7=-901/1751, 6-7=-912/1732, 5-6=-902/1745
WEBS	3-7=0/327, 3-5=-1642/925

- NOTES**
- 1) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 5 and 335 lb uplift at joint 2.
 - 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job 23042507	Truss C3	Truss Type Truss	Qty 8	Ply 1	Job Reference (optional)
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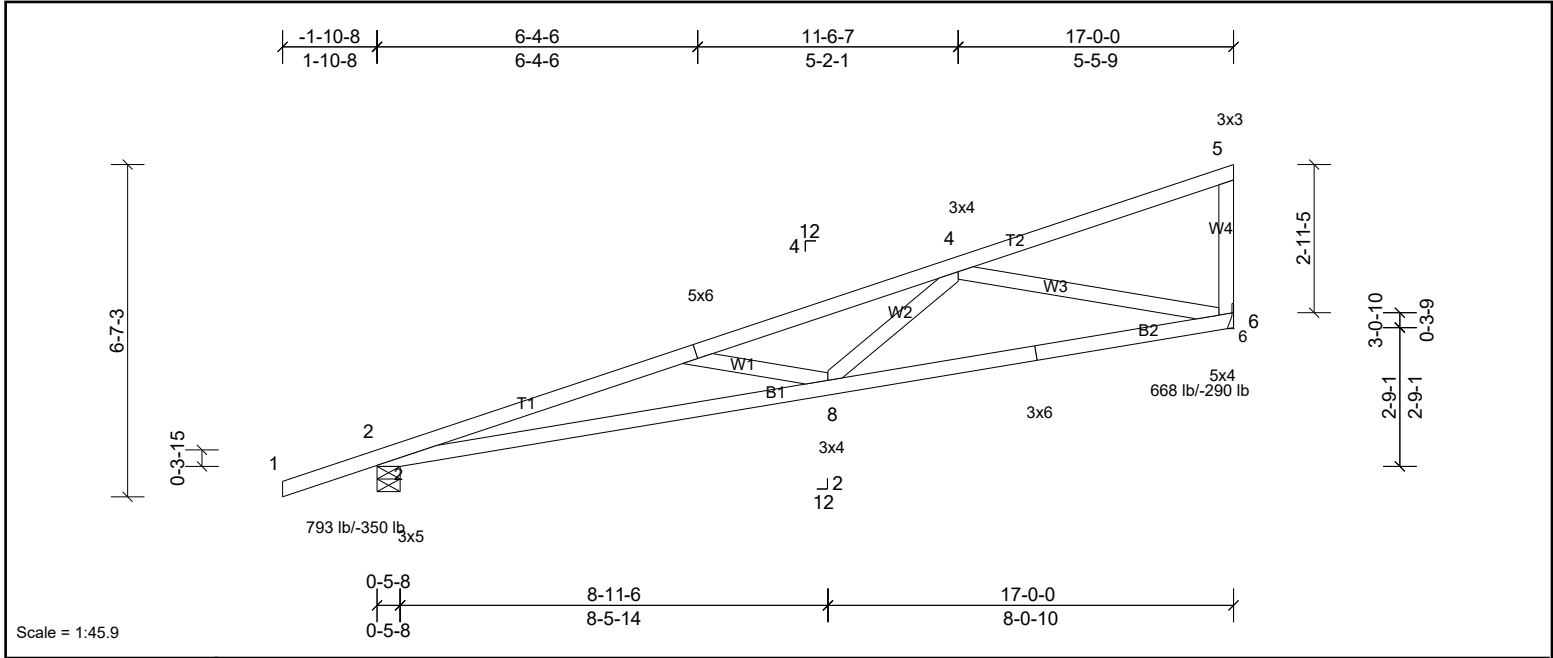


Plate Offsets (X, Y): [3:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.18	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.29	8-11	>691	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 77 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-2-3 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-3-2 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	2=793/0-5-8, (min. 0-1-8), 6=668/ Mechanical, (min. 0-1-8)
	Max Horiz	2=294 (LC 7)
	Max Uplift	2=-350 (LC 6), 6=-290 (LC 10)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2448/1135, 3-4=-1901/780
BOT CHORD	2-8=-1212/2326, 7-8=-669/1259, 6-7=-660/1271
WEBS	3-8=-540/450, 4-8=-143/798, 4-6=-1233/727

- NOTES**
- 1) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 290 lb uplift at joint 6 and 350 lb uplift at joint 2.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



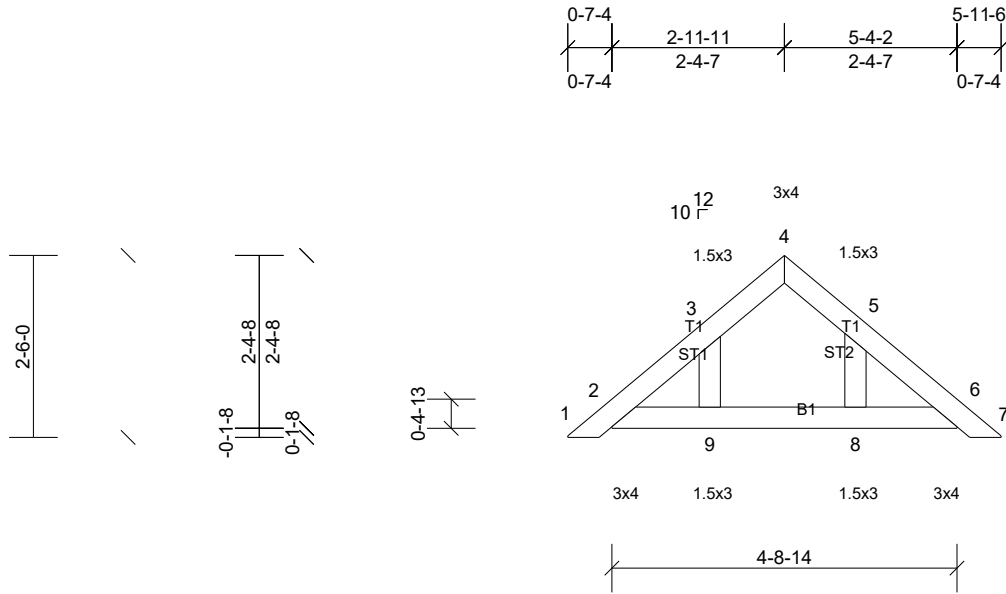
Job 23042507	Truss PB1	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:31.8

Plate Offsets (X, Y): [2:0-2-1,0-1-8], [4:0-2-0,Edge], [6:0-2-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 4-8-14.
 (lb) - Max Horiz 2=-81 (LC 8), 10=-81 (LC 8)
 Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 8, 9, 10, 14

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Truss designed for wind loads in the plane of the truss only.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 8.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) See standard piggyback truss connection detail for connection to base truss.

LOAD CASE(S) Standard



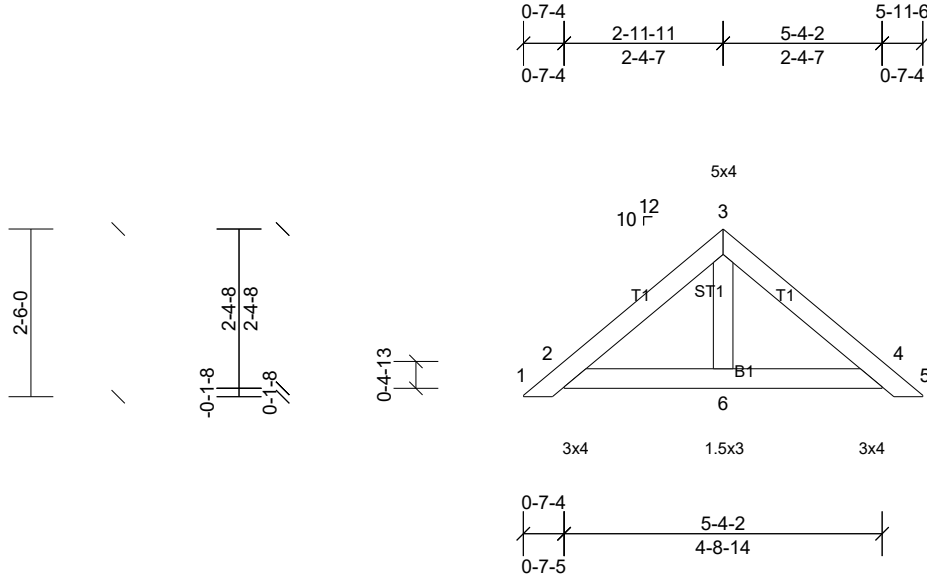
Job 23042507	Truss PB2	Truss Type Truss	Qty 22	Ply 1	Job Reference (optional)
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Scale = 1:34.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 6-0-0.
(lb) - Max Horiz 1=-81 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) 5, 6 except 1=-142 (LC 17), 2=-180 (LC 10), 4=-157 (LC 11), 7=-180 (LC 10), 10=-157 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 6 except 2=300 (LC 17), 4=257 (LC 18), 7=300 (LC 17), 10=257 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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
 - Truss designed for wind loads in the plane of the truss only.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (jt=lb) 1=142, 2=180, 4=156, 2=180, 4=156.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See standard piggyback truss connection detail for connection to base truss.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

