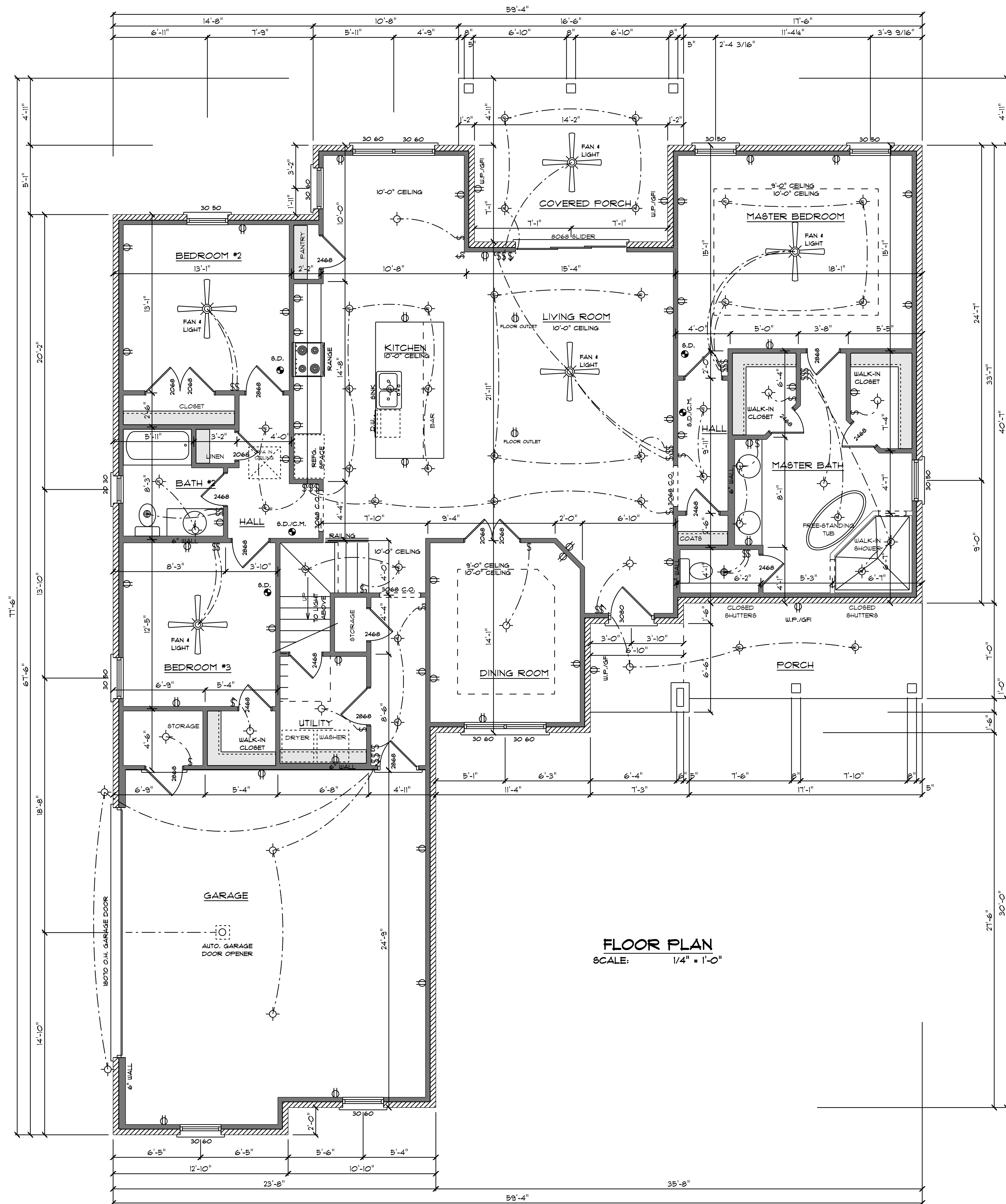




NAME	AREA
LIVING	2189.0 sq ft.
GARAGE	644.0 sq ft.
COVERED PORCHES	345.0 sq ft.
TOTAL UNDER ROOF	3178.0 SQ. FT.



FRONT ELEVATION

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



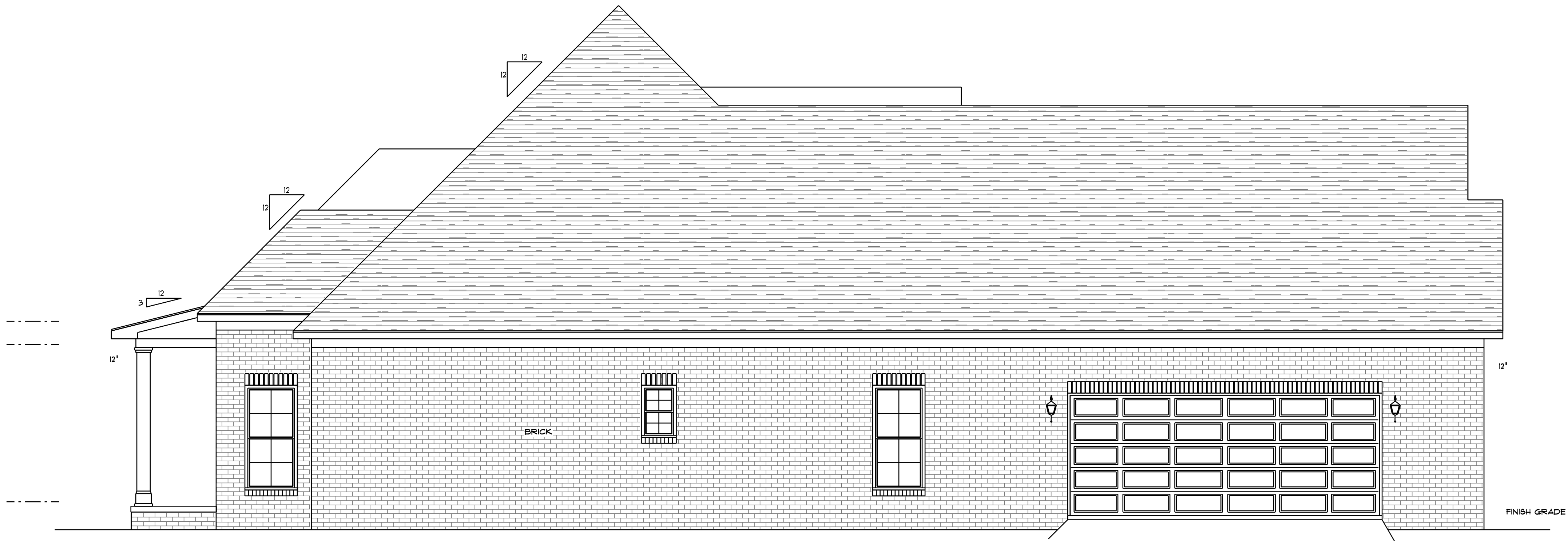
RIGHT SIDE ELEVATION

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



REAR ELEVATION

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



LEFT SIDE ELEVATION

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

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LAST SAVED:EMILY PRINTED BY: JARED HENDRICKSON 5/26/2023 12:32:29 PM in Bethel Engineering Main Structural Engineering B/E Engineering CB, LLC 020203CB2305026203-024 Blair/CB2305-024 Blair.dwg

GENERAL:

- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO STARTING CONSTRUCTION AND SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES WITH ANY WORK INVOLVED.
- ALL PHASES OF THE WORK SHALL CONFORM TO THE MINIMUM STANDARDS AND REQUIREMENTS OF THE REFERENCED INTERNATIONAL RESIDENTIAL CODE AND ITS RELATED REFERENCES.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONNEL DURING CONSTRUCTION.
- ALL ASTM SPECIFICATIONS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST EDITIONS OR REVISIONS.
- IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONTRACT DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN. IF SIMILAR CONDITIONS ARE NOT SHOWN, THEN CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO START OF WORK FOR CLARIFICATIONS.
- EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR, AS THEY ARE UNCOVERED DURING THE CONSTRUCTION. IN THE EVENT EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY AND AWAIT FURTHER INSTRUCTION BEFORE PROCEEDING WITH CONSTRUCTION.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL DRAWINGS ARE THE SAME OR EQUIVALENT TO THOSE ON THE ARCHITECTURAL DRAWINGS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
- VERIFY ALL OPENINGS IN FOUNDATIONS, FLOORS, WALLS, AND ROOF WITH MECHANICAL AND ELECTRICAL REQUIREMENTS BEFORE PROCEEDING WITH CONSTRUCTION.
- SITE WORK AND DRAINAGE DESIGN SHALL BE BY OTHERS.

FOUNDATIONS:

- NO SOILS REPORT HAS BEEN PREPARED FOR THIS PROJECT, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE SOIL SUPPORT FOR THE FOUNDATION DESIGN, AND SHALL REPORT UNEXPECTED CONDITIONS TO THE ENGINEER, SUCH AS EXPANSIVE, COMPRESSIBLE, OR SHIFTING SOILS, OR SOILS WITH QUESTIONABLE CHARACTERISTICS.
- ALLOWABLE SOIL BEARING = 1500 PSF. THIS PRESUMPTIVE CAPACITY IS BASED ON THE ASSUMPTION THAT THE EXISTING SOILS ARE AS DESCRIBED IN SECTION R401.4 AND TABLE R401.4.1 OF THE INTERNATIONAL RESIDENTIAL CODE. THE ENGINEER OF RECORD MAKES NO WARRANTY OR GUARANTEE OF FUTURE SETTLEMENT OF THE EXISTING SOILS. THE TOP 12 INCHES OF EXISTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT
- ALL FOOTINGS, OR PORTIONS THEREOF, BELOW GRADE MAY BE EARTH FORMED BY NEAT EXCAVATIONS.
- FOOTINGS TO BE CENTERED ON WALLS OR COLUMNS UNLESS NOTED OTHERWISE.
- SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER APPROVED POINTS OF COLLECTION THAT DOES NOT CREATE A HAZARD. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATIONS OR FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST 10 FEET.
- STRUCTURES REQUIRED BY THE PERMITTING AUTHORITY TO BE FLOOD RESISTANT SHALL COMPLY WITH THE INTERNATIONAL RESIDENTIAL CODE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING THE DESIRED TOP OF FOUNDATION ELEVATION.

CONCRETE WORK:

- CONCRETE (NORMAL WEIGHT) COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI, UNLESS NOTED OTHERWISE.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
- ALL AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C33.
- ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185.
- MINIMUM WWF LAP SHALL BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR MINIMUM OF 6 INCHES.
- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST ADOPTION EDITION OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND ITS REVISIONS AND THE "ACI MANUAL OF CONCRETE PLACEMENT."
- ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI STANDARDS. NO WELDING OF REINFORCEMENT SHALL BE ALLOWED UNLESS NOTED OTHERWISE OR APPROVED BY ENGINEER.
- NO SPLICING OF REINFORCEMENT SHALL BE MADE EXCEPT AS NOTED, DETAILED, OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES WHERE PERMITTED SHALL BE CLASS B TENSION LAP SPLICES, UNLESS NOTED OTHERWISE. MAKE ALL BARS CONTINUOUS AROUND CORNERS.
- STAGGER SPLICES A MINIMUM OF 4'-0" FOR CONTINUOUS BARS IN ALL CONCRETE WORK, UNLESS NOTED OTHERWISE.
- PROVIDE TWO (2) #5 BARS (1 EACH FACE) WITH MINIMUM 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE UNLESS NOTED OTHERWISE.
- SLABS, WALLS, AND PILE CAPS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCED CAST-IN-PLACE CONCRETE:
 - CONCRETE PLACED AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
 - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 - #18 BARS 2 INCHES
 - #5 BARS AND SMALLER 1.5 INCHES
 - CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH EARTH:
 - SLABS, WALL, AND JOISTS:
 - #14 AND #18 BARS 1.5 INCHES
 - #11 BARS AND SMALLER 1 INCH
 - BEAMS, COLUMNS, AND WALL JAMBS:
 - PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS: #14 AND #18 BARS 2.5 INCHES
 - #11 BARS AND SMALLER 1.5 INCHES
- PROVIDE REINFORCING BAR PLACING ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE.
- IT IS RECOMMENDED TO PROVIDE SAWN JOINTS IN THE CONCRETE SLAB TO MINIMIZE TEMPERATURE & SHRINKAGE CRACKING. ALL SAWN JOINTS SHALL BE ± 1/8" WIDE, AND 1/4 THE DEPTH OF THE SLAB. THE JOINT SPACING SHALL HAVE A MAXIMUM SPACING OF 12 FEET EACH WAY, WITH A MAXIMUM ASPECT RATIO OF 1.5:1, HOWEVER A RATIO OF 1:1 IS PREFERRED. THE SAWCUT SHOULD BE COMPLETED WITHIN 12 HOURS OF THE INITIAL CONCRETE POUR. THE JOINTS SHALL BE CAULKED WITH URETHANE CAULKING OR A BACKER ROD AND JOINT SEALANT.
- ALL FIELD BENDING OF REINFORCING BARS SHALL BE MADE COLD FOR #8 BARS AND SMALLER, #9, #10 AND #11 BARS UPON APPROVAL MAY BE PREHEATED UNIFORMLY AND CAREFULLY BENT OR STRAIGHTENED PER CRSI RECOMMENDATIONS.
- ALL REINFORCING BAR, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROJECTING CORNERS OF BEAMS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER UNLESS NOTED OTHERWISE.
- TERMITE PROTECTION SHALL BE INSTALLED TO COMPLY WITH THE INTERNATIONAL RESIDENTIAL CODE.
- THE CONTRACTOR SHALL PASS ALL REQUIRED LOCAL INSPECTIONS PRIOR TO PLACING CONCRETE.
- UNLESS OTHERWISE DIRECTED BY THE OWNER, THE PORCH, PATIO, AND GARAGE SURFACES SHALL BE LIGHT BROOM FINISHED AND THE HOUSE SHALL BE SMOOTH FAN FINISH.

MASONRY:

- HOLLOW CONCRETE BLOCK (MASONRY) UNITS SHALL CONFORM TO ASTM C90 SPECIFICATIONS, NORMAL WEIGHT, TYPE I, GRADE N.
- COMPOSITION, QUALITY, STORAGE, HANDLING, PREPARATION AND PLACEMENT OF MATERIALS, QUALITY ASSURANCE FOR MATERIALS AND MASONRY, AND CONSTRUCTION OF MASONRY SHALL COMPLY WITH TMS 402/ACI 530/ASCE 5. A QUALITY ASSURANCE PROGRAM SHALL BE USED TO ENSURE THAT THE CONSTRUCTED MASONRY IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- SPECIFIED COMPRESSIVE STRENGTH OF MASONRY SHALL BE A MINIMUM OF fm = 1500 PSI.
- MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE 1900 PSI.
- ALL MORTAR USED IN MASONRY SHALL CONFORM TO ASTM C270 TYPE M OR S. TYPE N MASONRY CEMENT MORTAR IS NOT ACCEPTABLE. MASONRY FOR FOUNDATION WALLS SHALL BE LAID IN MORTAR IN ACCORDANCE WITH INTERNATIONAL RESIDENTIAL CODE SECTIONS R404 AND R606.
- ALL REINFORCING IN MASONRY WALLS SHALL BE FULLY ENCLOSED WITH GROUT. GROUT MIX SHALL CONFORM TO ASTM C476 WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI. USE GROUT TYPE (FINE OR COARSE) THAT WILL COMPLY WITH TABLE 7 (GROUT SPACE REQUIREMENTS) OF ACI 530 SPECIFICATION OF MASONRY STRUCTURES FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. PROVIDE A MINIMUM OF 1" GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
- ALL REINFORCEMENT FOR USE IN MASONRY CONSTRUCTION SHALL CONFORM TO ASTM A615, GRADE 60.
- ALL DEFORMED WIRE HORIZONTAL REINFORCEMENT IN CMU WALLS SHALL CONFORM TO ASTM A497. PROVIDE #9 TRUSS TYPE JOINT REINFORCEMENT @ 16" O.C. FOR TYPICAL HORIZONTAL REINFORCING AND @ 8" O.C. FOR TYPICAL HORIZONTAL REINFORCING AT PARAPET WALLS.
- ALL PLAIN WIRE HORIZONTAL REINFORCEMENT IN CMU WALLS SHALL CONFORM TO ASTM A82 OR ASTM A185.
- MAKE ALL REINFORCING CONTINUOUS BY LAPPING AND PROVIDING CORNER BARS FOR ALL REINFORCEMENT. VERTICAL AND HORIZONTAL REINFORCEMENT IS TO BE CONTINUOUS AND LAPPED A MINIMUM OF 48 BAR DIAMETERS.
- VERTICAL REINFORCEMENT FOR CMU WALLS TO BE PLACED IN CENTER OF WALL, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. PROVIDE ALL ACCESSORIES AS REQUIRED TO SUPPORT BARS AT LOCATIONS INDICATED.
- MASONRY IS TO BE LAID IN ACCORDANCE WITH LATEST ADOPTED EDITION OF THE INTERNATIONAL RESIDENTIAL CODE SECTION R606.3.7 OR APPLICABLE LOCAL GOVERNING CODES. ALL CONCRETE MASONRY UNITS SHALL BE LAID IN RUNNING BOND IN ACCORDANCE WITH ACI 530.
- MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION TO WITHSTAND WIND LOADS. BRACING SHALL REMAIN IN PLACE UNTIL ROOF FRAMING IS COMPLETELY INSTALLED AND CAPABLE OF PROVIDING LATERAL SUPPORT.

STRUCTURAL LUMBER:

- WOOD FRAMING AND COLUMNS 5" x 5" AND LARGER SHALL BE NO. 1 STRESS RATED SOUTHERN PINE OR BETTER WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

Fb = 1350 PSI	Fc = 375 PSI	Fcl = 825 PSI	Fv = 165 PSI	E = 1,500,000 PSI
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- WOOD FRAMING AND COLUMNS 2-4" THICK AND 2-4" WIDE SHALL BE NO. 2 STRESS RATED SOUTHERN PINE OR BETTER WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

Fb = 1100 PSI	Fc = 565 PSI	Fcl = 1450 PSI	Fv = 175 PSI	E = 1,400,000 PSI
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- WOOD FRAMING AND COLUMNS 2-4" THICK AND 5-6" WIDE SHALL BE NO. 2 STRESS RATED SOUTHERN PINE OR BETTER WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

Fb = 1000 PSI	Fc = 565 PSI	Fcl = 1400 PSI	Fv = 175 PSI	E = 1,400,000 PSI
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- WOOD FRAMING AND COLUMNS 2-4" THICK AND 8" WIDE SHALL BE NO. 2 STRESS RATED SOUTHERN PINE OR BETTER WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

Fb = 925 PSI	Fc = 565 PSI	Fcl = 1350 PSI	Fv = 175 PSI	E = 1,400,000 PSI
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- WOOD FRAMING AND COLUMNS 2-4" THICK AND 10" WIDE SHALL BE NO. 2 STRESS RATED SOUTHERN PINE OR BETTER WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

Fb = 800 PSI	Fc = 565 PSI	Fcl = 1300 PSI	Fv = 175 PSI	E = 1,400,000 PSI
--------------	--------------	----------------	--------------	-------------------
- WOOD FRAMING AND COLUMNS 2-4" THICK AND 12" WIDE SHALL BE NO. 2 STRESS RATED SOUTHERN PINE OR BETTER WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

Fb = 750 PSI	Fc = 565 PSI	Fcl = 1250 PSI	Fv = 175 PSI	E = 1,400,000 PSI
--------------	--------------	----------------	--------------	-------------------
- 2x4 WALL STUDS AND PLATES SHALL BE SPRUCE-PINE-FIR IN STUD GRADE WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

Fb = 675 PSI	E = 1,200,000 PSI
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- 2x6 WALL STUDS AND PLATES SHALL BE SPRUCE-PINE-FIR IN STUD GRADE WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

Fb = 675 PSI	E = 1,200,000 PSI
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- ALL LVJ BEAMS SHALL BE VERSA-LAM AS MANUFACTURED BY BOISE CASCADE, OR AN APPROVED EQUAL WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

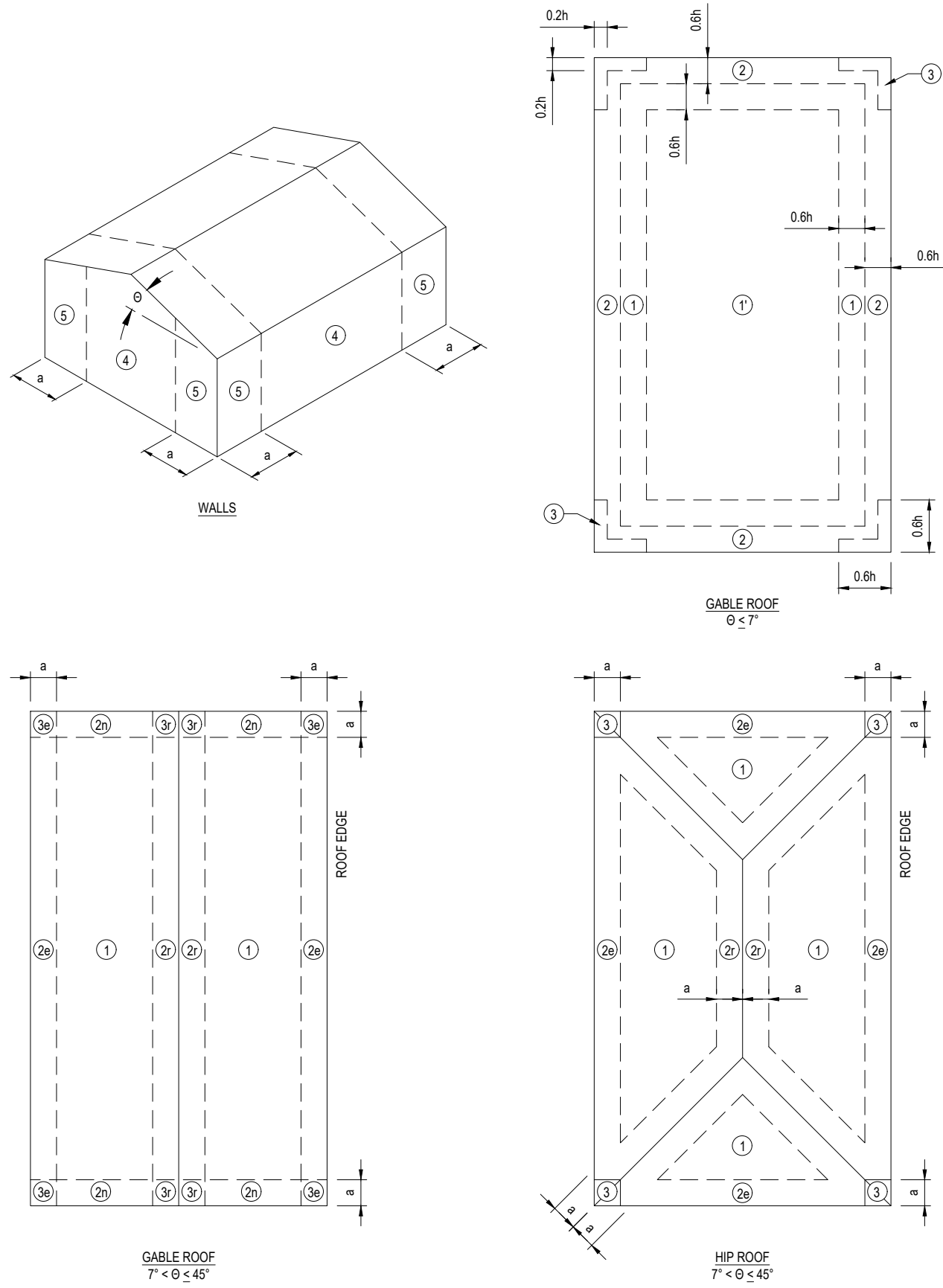
Fb = 3100 PSI	Fc = 750 PSI	Fcl = 3000 PSI	Fv = 285 PSI	E = 2,100,000 PSI
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- ALL GLULAM BEAMS SHALL BE POWER PRESERVED GLULAM BEAMS BY ANTHONY FOREST PRODUCTS, OR AN APPROVED EQUAL WITH THE MINIMUM FOLLOWING CHARACTERISTICS:

Fb = 2400 PSI	Fc = 740 PSI	Fcl = 1650 PSI	Fv = 300 PSI	E = 1,800,000 PSI
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- ALL WOOD I-JOISTS SHALL BE AS MANUFACTURED BY BOISE CASCADE, OR AN APPROVED EQUAL.
- PLYWOOD DECKING AS FOLLOWS:
 - ALL WALL SHEATHING AND ROOF DECKING SHALL BE APA RATED SHEATHING, STRUCTURAL I OR II, EXTERIOR PLYWOOD. ROOF SHEATHING THICKNESS SHALL BE AS SHOWN ON THE ROOF FRAMING PLAN. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS.
 - WALL SHEATHING THICKNESS SHALL BE AS SHOWN ON THE SHEAR WALL PLAN.
 - STAGGER ENDS OF SHEETS IF LAYING HORIZONTALLY.
 - PROVIDE BLOCKING AT EDGES OF ALL SHEAR WALL PANELS.
 - ROOF SHEATHING NAILING: (U.N.O. ON PLANS)
 - 4" O.C. MAXIMUM SPACING PANEL EDGES
 - 4" O.C. MAXIMUM SPACING INTERMEDIATE SUPPORTS.
 - USE MINIMUM 0.113" x 2.38" RING SHANK NAILS (8d RING SHANK) U.N.O.
 - ROOF DECK EDGE SUPPORT SHALL COMPLY WITH TABLE R503.2.1(1).
 - PANELS SHALL BE SPACED 1/8" END TO END PER MANUFACTURER'S RECOMMENDATION.
- TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS & RECOMMENDATIONS OF TPI 1-2014 & BCSI-2013 BY THE TRUSS PLATE INSTITUTE (TPI).
- TRUSS MANUFACTURER SHALL SUBMIT FOR APPROVAL CALCULATIONS & SHOP DRAWINGS FOR DETAILS, FABRICATION & ERECTION OF WOOD TRUSSES. DRAWINGS SHALL INCLUDE LAYOUT, SPACING, MATERIAL, MEMBER PROPERTIES, & DETAILS OF CONNECTIONS FOR ALL TIMBER FRAMING INDICATED ON THE DRAWINGS. TRUSSES SHALL BE DESIGNED TO RESIST THE FORCES AS INDICATED, BY THE FABRICATOR, UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:

ROOF TOP CHORD DEAD LOAD	10 PSF
ROOF TOP CHORD LIVE LOAD	20 PSF
BOTTOM CHORD DEAD LOAD	10 PSF
BOTTOM CHORD LIVE LOAD	20 PSF
- DESIGN ROOF TRUSSES TO RESIST A NET UPLIFT PRESSURE AND DOWNWARD PRESSURE APPLIED NORMAL TO THE ROOF PLANE AS REQUIRED IN THE INTERNATIONAL RESIDENTIAL CODE.
- IN ADDITION, WOOD TRUSSES SHALL BE DESIGNED FOR ALL CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR LOADING INFORMATION & LOCATIONS. LOADING AS REQUIRED BY OTHER SUB-CONTRACTORS, SUCH AS FIRE PROTECTION SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
- TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCES ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.
- ALL SAWN LUMBER IN CONTACT WITH STEEL, MASONRY, OR CONCRETE OR EXPOSED TO EXTERIOR ENVIRONMENT SHALL BE TREATED IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARD U1-22.
- ALL MULTIPLE PIECE WOOD BEAMS SHALL BE CONNECTED TOGETHER WITH MINIMUM TWO ROWS OF 16d NAILS @ 8" O.C. (U.N.O.).
- NAILING U.N.O. SHALL BE IN ACCORDANCE WITH THE TABLE R602.3(1) OF THE LATEST ADOPTED EDITION OF THE INTERNATIONAL RESIDENTIAL CODE.
- ALL CONNECTORS AND HARDWARE SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SIZE, QUANTITY, AND LOCATION OF NAILS AND FASTENERS SHALL CONFORM TO THE MANUFACTURER'S PUBLISHED LITERATURE.
- ALL BOLTS, NAILS, JOIST HANGERS, CLIPS, STRAPS, ETC. THAT ARE IN CONTACT WITH PRESSURE TREATED MATERIAL SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
- ALL LUMBER AND WOOD STRUCTURAL PANEL MEMBERS, INCLUDING PRESSURE TREATED 2" THICK AND LESS SHALL CONTAIN NO MORE THAN 19% MOISTURE AT THE TIME OF PERMANENT INCORPORATION INTO STRUCTURE.
- FLOOR JOISTS SHALL BE DOUBLED UNDER PARALLEL WALLS U.N.O. ON PLANS.

STRUCTURAL LUMBER (CONT'D):

- SOLID 2x BLOCKING OR DIAGONAL 1x BLOCKING SHALL BE PLACED BETWEEN FLOOR JOISTS AT INTERVALS NOT EXCEEDING 8 FT. UNDER LOAD BEARING WALLS.
- STRUCTURAL MEMBERS SHALL NOT BE CUT, BORED, OR NOTCHED IN EXCESS OF THE LIMITATIONS OF THE MANUFACTURER'S PUBLISHED LITERATURE OR THE INTERNATIONAL RESIDENTIAL CODE.
- WHERE A LOAD-BEARING WALL THAT BEARS ON WOOD I-JOISTS, IS STACKED OVER A LOAD-BEARING WALL BELOW, 2x SQUASH BLOCKS OR I-JOIST BLOCKING IS REQUIRED BETWEEN THE JOISTS, SEE FLOOR FRAMING PLAN.



COMPONENTS & CLADDING WIND PRESSURES (psf) (ALLOWABLE STRESS DESIGN) (CONT'D.) EXPOSURE C (20 ft MRH)												
WALLS	ZONE	EFF. WIND AREA (SF)	WIND SPEED									
			130 MPH		140 MPH		150 MPH		160 MPH		170 MPH	
			POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
	4	10	23.5	-25.5	27.2	-29.5	31.3	-33.9	35.6	-38.6	40.2	-43.6
	4	20	22.4	-24.4	26.0	-28.3	29.9	-32.5	34.0	-37.0	38.3	-41.7
	4	50	21.0	-23.0	24.4	-26.7	28.0	-30.6	31.8	-34.9	36.0	-39.4
	4	100	20.0	-22.0	23.2	-25.5	26.6	-29.2	30.2	-33.3	34.1	-37.5
	4	200	18.9	-20.9	21.9	-24.2	25.2	-27.8	28.6	-31.7	32.3	-35.7
	5	10	23.5	-31.4	27.2	-36.5	31.3	-41.9	35.6	-47.6	40.2	-53.8
	5	20	22.4	-29.3	26.0	-34.0	29.9	-39.0	34.0	-44.4	38.3	-50.1
	5	50	21.0	-26.5	24.4	-30.8	28.0	-35.3	31.8	-40.2	36.0	-45.4
	5	100	20.0	-24.4	23.2	-28.3	26.6	-32.5	30.2	-37.0	34.1	-41.7
	5	200	18.9	-22.3	21.9	-25.9	25.2	-29.7	28.6	-33.8	32.3	-38.1
WALLS (ZONE 5)	OPENING SIZE	EFF. WIND AREA (SF)	WIND SPEED									
			130 MPH		140 MPH		150 MPH		160 MPH		170 MPH	
			POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
	3050 WINDOW	15	22.9	-30.2	26.5	-35.0	30.4	-40.2	34.6	-45.8	39.1	-51.7
	4040 WINDOW	16	22.8	-30.0	26.4	-34.8	30.3	-40.0	34.5	-45.5	38.9	-51.3
	2868 DOOR	17.8	22.6	-29.6	26.2	-34.4	30.1	-39.5	34.2	-44.9	38.6	-50.7
	3060 WINDOW	18	22.6	-29.7	26.2	-34.4	30.1	-39.5	34.2	-45.0	38.7	-50.8
	3068 DOOR	20	22.4	-29.3	26.0	-34.0	29.9	-39.0	34.0	-44.4	38.3	-50.1
	5068 WINDOW	33.3	21.6	-27.8	25.1	-32.2	28.8	-37.0	32.8	-42.1	37.0	-47.5
	6068 DOOR	40	21.4	-27.2	24.8	-31.6	28.4	-36.2	32.4	-41.2	36.5	-46.5
	8070 WINDOW	56	20.9	-26.2	24.2	-30.4	27.8	-34.9	31.6	-39.7	35.7	-44.8
	16070 GARAGE DOOR	112	19.8	-24.1	23.0	-27.9	26.4	-32.0	30.0	-36.5	33.8	-41.1

SHEET INDEX

- S-0.0 GENERAL NOTES
- S-0.1 GENERAL NOTES
- S-1.0 FOUNDATION PLAN
- S-1.1 FOUNDATION SECTIONS & DETAILS
- S-2.0 CEILING FRAMING PLAN
- S-3.0 ROOF FRAMING PLAN
- S-4.0 SHEAR WALL PLAN
- S-5.0 FRAMING SECTIONS & DETAILS
- S-5.1 FRAMING SECTIONS & DETAILS
- S-5.2 FRAMING SECTIONS & DETAILS

CODES:

LOCAL CODES, ORDINANCES, AND AMENDMENTS
COASTAL CONSTRUCTION CODE SUPPLEMENT

GENERAL BUILDING CODE:
2021 INTERNATIONAL RESIDENTIAL CODE
ASCE 7-16

CONCRETE CODES:
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)
GUIDE TO DESIGN OF SLABS-ON-GROUND (ACI 360R-10)

MASONRY CODE:
BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 402-13/ACI 530-13/ASCE 5-13)

WOOD CODES:
AWC MANUAL FOR ENGINEERED WOOD CONSTRUCTION (2018)
AWC NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION (2018)
AWC SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC (SDPWS) (2015)
AWC NATIONAL DESIGN SPECIFICATION (NDS) SUPPLEMENT (2018)
AWC WOOD FRAME CONSTRUCTION MANUAL (WFCM) (2018)

DESIGN LOADS:

FLOOR LOADS:
DEAD LOAD 10 PSF
LIVE LOAD 40 PSF

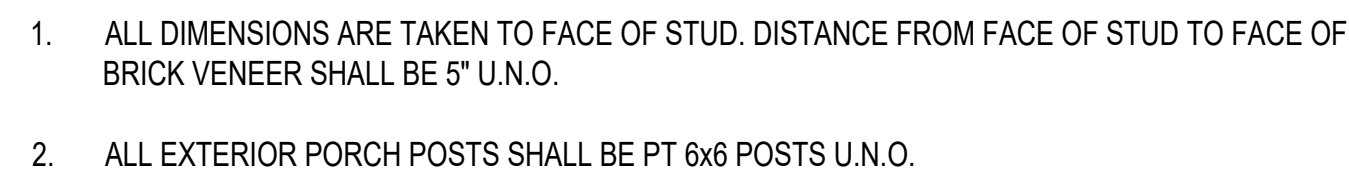
CEILING LOADS:
DEAD LOAD 10 PSF
LIVE LOAD 20 PSF

ROOF LOADS:
DEAD LOAD 10 PSF
LIVE LOAD 20 PSF

WIND LOADS:
WIND SPEED = 160 MPH
EXPOSURE = C
MEAN ROOF HEIGHT = 20 FEET

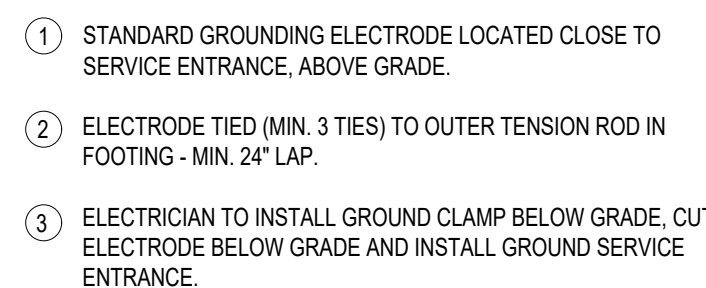
RISK CATEGORY II
WIND DIRECTIONALITY FACTOR, Kd = 0.85
TOPOGRAPHIC FACTOR, Kzt = 1.0
GROUND ELEVATION FACTOR, Ke = 1.0
GUST-EFFECT FACTOR, G = 0.85
ENCLOSURE CLASSIFICATION = ENCLOSED BUILDING
INTERNAL PRESSURE COEFFICIENT = ±0.18
a = 4 FEET

COMPONENTS & CLADDING WIND PRESSURES (psf) (ALLOWABLE STRESS DESIGN)												
EXPOSURE C (20 ft MRH)												
	ZONE	EFF. WIND AREA (SF)	WIND SPEED									
			130 MPH		140 MPH		150 MPH		160 MPH		170 MPH	
			POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
GABLE ROOF 0 TO 7" (0 TO 15.12) (No OVERHANG)	1	10	9.6	-37.4	11.1	-43.4	12.7	-49.8	14.5	-56.7	16.3	-64.0
	1'	10	9.6	-31.4	11.1	-36.5	12.7	-41.9	14.5	-47.6	16.3	-53.8
	2	10	9.6	-49.4	11.1	-57.2	12.7	-65.7	14.5	-74.8	16.3	-84.4
	3	10	9.6	-67.3	11.1	-78.0	12.7	-89.5	14.5	-101.9	16.3	-115.0
GABLE ROOF (0 TO 15.12) (No OVERHANG)	1	10	9.6	-37.4	11.1	-43.4	12.7	-49.8	14.5	-56.7	16.3	-64.0
	1'	10	9.6	-37.4	11.1	-43.4	12.7	-49.8	14.5	-56.7	16.3	-64.0
	2	10	9.6	-49.4	11.1	-57.2	12.7	-65.7	14.5	-74.8	16.3	-84.4
	3	10	9.6	-67.3	11.1	-78.0	12.7	-89.5	14.5	-101.9	16.3	-115.0
GABLE ROOF > 15.12 TO 20' (> 15.12 TO 4.412)	1	10	14.2	-43.4	16.5	-50.3	19.0	-57.8	21.6	-65.7	24.3	-74.2
	2e	10	14.2	-43.4	16.5	-50.3	19.0	-57.8	21.6	-65.7	24.3	-74.2
	2n	10	14.2	-63.3	16.5	-73.4	19.0	-84.3	21.6	-95.9	24.3	-108.2
	2r	10	14.2	-63.3	16.5	-73.4	19.0	-84.3	21.6	-95.9	24.3	-108.2
	3e	10	14.2	-63.3	16.5	-73.4	19.0	-84.3	21.6	-95.9	24.3	-108.2
	3r	10	14.2	-75.2	16.5	-87.2	19.0	-100.1	21.6	-113.9	24.3	-128.6
GABLE ROOF > 20' TO 20' (> 4.412 TO 10.112)	1	10	14.2	-33.4	16.5	-38.8	19.0	-44.5	21.6	-50.6	24.3	-57.2
	2e	10	14.2	-33.4	16.5	-38.8	19.0	-44.5	21.6	-50.6	24.3	-57.2
	2n	10	14.2	-53.3	16.5	-61.9	19.0	-71.0	21.6	-80.8	24.3	-91.2
	2r	10	14.2	-53.3	16.5	-61.9	19.0	-71.0	21.6	-80.8	24.3	-91.2
	3e	10	14.2	-79.8	16.5	-82.5	19.0	-106.2	21.6	-120.9	24.3	-136.4
	3r	10	14.2	-75.2	16.5	-87.2	19.0	-100.1	21.6	-113.9	24.3	-128.6
GABLE ROOF > 20' TO 20' (> 15.12 TO 12.12)	1	10	21.5	-39.4	24.9	-45.7	28.6	-52.5	32.6	-59.7	36.8	-67.4
	2e	10	21.5	-39.4	24.9	-45.7	28.6	-52.5	32.6	-59.7	36.8	-67.4
	2n	10	21.5	-43.4	24.9	-50.3	28.6	-57.8	32.6	-65.7	36.8	-74.2
	2r	10	21.5	-39.4	24.9	-45.7	28.6	-52.5	32.6	-59.7	36.8	-67.4
	3e	10	21.5	-53.2	24.9	-61.7	28.6	-70.8	32.6	-80.6	36.8	-91.0
	3r	10	21.5	-43.4	24.9	-50.3	28.6	-57.8	32.6	-65.7	36.8	-74.2
HIP ROOF > 20' TO 20' (> 15.12 TO 4.412) HIB < 0.5	1	10	17.5	-29.5	20.3	-34.2	23.3	-39.2	26.5	-44.6	29.9	-50.4
	2e	10	17.5	-39.4	20.3	-45.7	23.3	-52.5	26.5	-59.7	29.9	-67.4
	2r	10	17.5	-51.3	20.3	-59.5	23.3	-68.4	26.5	-77.8	29.9	-87.8
	3	10	17.5	-39.4	20.3	-45.7	23.3	-52.5	26.5	-59.7	29.9	-67.4
HIP ROOF > 20' TO 20' (> 15.12 TO 4.412) HIB > 0.8	1	10	17.5	-39.4	20.3	-45.7	23.3	-52.5	26.5	-59.7	29.9	-67.4
	2e	10	17.5	-55.3	20.3	-64.2	23.3	-73.7	26.5	-83.8	29.9	-94.6
	2r	10	17.5	-51.3	20.3	-59.5	23.3	-68.4	26.5	-77.8	29.9	-87.8
	3	10	17.5	-55.3	20.3	-64.2	23.3	-73.7	26.5	-83.8	29.9	-94.6
HIP ROOF > 20' TO 20' (> 4.412 TO 0.112)	1	10	17.5	-31.4	20.3	-36.5	23.3	-41.9	26.5	-47.6	29.9	-53.8
	2e	10	17.5	-43.4	20.3	-50.3	23.3	-57.8	26.5	-65.7	29.9	-74.2
	2r	10	17.5	-43.4	20.3	-50.3	23.3	-57.8	26.5	-65.7	29.9	-74.2
	3	10	17.5	-43.4	20.3	-50.3	23.3	-57.8	26.5	-65.7	29.9	-74.2
HIP ROOF > 20' TO 40' (> 15.12 TO 12.12)	1	10	16.6	-33.4	19.2	-38.8	22.1	-44.5	25.1	-50.7	28.4	-57.2
	2e	10	16.6	-40.0	19.2	-46.4	22.1	-53.2	25.1	-60.6	28.4	-68.4
	2r	10	16.6	-54.3	19.2	-63.0	22.1	-72.3	25.1	-82.3	28.4	-92.9
	3	10	16.6	-53.1	19.2	-61.6	22.1	-70.7	25.1	-80.4	28.4	-90.0



FOUNDATION PLAN

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



10"

3"

PROJ.

7" EMBED

2"

HOOK

HEX NUT AND 3"x3"x1/4" SLOTTED WASHER w/ A 2" Ø FLAT WASHER ON TOP

5/8" Ø ASTM F1554, GRADE 36 ANCHOR BOLT, GALVANIZED

WALL SHEATHING, SEE PLAN

CORRUGATED BRICK TIES @ 16" O.C. HORIZ. & 16" O.C. VERT. MAX.

BRICK VENEER, SEE ARCH.

WEEP HOLES @ 32" O.C. MAX.

FLASHING, INSTALL PER MFG RECOMMENDATIONS

2x STUDS, SEE PLAN

5/8"Ø ANCHOR BOLT @ 24" O.C., SEE DETAIL. PROVIDE ADDITIONAL ANCHOR BOLTS WITHIN 12" OF EACH END OF EACH PLATE WHERE SILL PLATES ABUT UNDER WINDOW OPENING. ADDITIONAL ANCHOR BOLTS ARE REQUIRED WITHIN 12" OF EACH END OF PLATE

PT 2x SILL PLATE CONT.

FINISHED FLOOR EL. 0'-0"

1'-3"

1'-0"

3"

CL.R.

8"

5"

1'-4"

1'-9"

6x6 W1.4xW1.4 (10 GA.) WWF

6 MIL POLY VAPOR BARRIER ON COMPACTED SANDY FILL (COMPACT BASE AND SUBGRADE TO 95% STANDARD DENSITY)

(3) #4 BARS CONT. IN BOTTOM OF FOOTING WAIRED TO CHAIRS. BOTTOM BARS SHALL BE MADE CONT. AROUND CORNERS USING CORNER BARS OR BY BENDING THE BAR. A MINIMUM SPLICE LENGTH SHALL BE 48Ø

NOTE: GRADE SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'-0" PER IRC R401.3

CORRUGATED BRICK
 TIES @ 16" O.C. HORIZ. &
 18" O.C. VERT. MAX.

BRICK VENEER, SEE ARCH.
 WALL SHEATHING, SEE PLAN
 FLASHING, INSTALL PER
 MFG RECOMMENDATIONS
 WEEP HOLES @ 32" O.C. MAX.

2x STUDS @ 16" O.C.
 5/8"Ø ANCHOR BOLT @ 24" O.C. SEE DETAIL. PROVIDE
 ADDITIONAL ANCHOR BOLTS WITHIN 12" OF EACH END
 OF EACH PLATE WHERE SILL PLATES ABUT UNDER
 WINDOW OPENING. ADDITIONAL ANCHOR BOLTS ARE
 REQUIRED WITHIN 12" OF EACH END OF PLATE
 PT 2x SILL PLATE CONT.

FINISHED FLOOR EL.
 0'-0"

SLOPE

6x6 W1.4xW1.4 (10 GA.) WVF
 6 MIL POLY VAPOR BARRIER ON COMPACTED
 SANDY FILL (COMPACT BASE AND SUBGRADE
 TO 95% STANDARD DENSITY)

(3) #4 BARS CONT. IN BOTTOM OF FOOTING
 WIRED TO CHAIRS. BOTTOM BARS SHALL BE
 MADE CONT. AROUND CORNERS USING
 CORNER BARS OR BY BENDING THE BAR. A
 MINIMUM SPLICE LENGTH SHALL BE 48db

8"
 8"
 1'-4"

* NOTE:
 AS PER FIELD, 1 1/2" MIN. / 12" MAX.

NOTE:
 NO BRICK @ "B SIM."

EDGE OF CONC.
TO C of POST (SEE PLAN)

PT 6x6 POST

SIMPSON AB1U66z POST BASE

5/8" @ TITEN HD (MIN. 6" EMBED)

SLOPE

1'-8"

1'-4"

6x6 W1.4xW1.4 (10 GA.) WWF

6 MIL POLY VAPOR BARRIER ON COMPACTED SANDY FILL (COMPACT BASE AND SUBGRADE TO 95% STANDARD DENSITY)

(2) #4 BARS CONT. IN BOTTOM OF FOOTING WIRE TO CHAIRS. BOTTOM BARS SHALL BE MADE CONT. AROUND CORNERS USING CORNER BARS OR BY BENDING THE BARS. A MINIMUM SPLICE LENGTH SHALL BE 48db

ASPHALT OR CONCRETE DRIVEWAY

5 1/2" x 1 1/2" DEEP LEDGE FOR GARAGE DOOR OR SLOPE 1 1/2" WITHIN 12" INTO GARAGE

6x6 W1.4kW1.4 (10 GA.) WWF

SLOPE

1'-8"

1'-4"

6 MIL POLY VAPOR BARRIER ON COMPACTED SANDY FILL (COMPACT BASE AND SUBGRADE TO 95% STANDARD DENSITY)

(2) #4 BARS CONT. IN BOTTOM OF FOOTING WIRE TO CHAIRS. BOTTOM BARS SHALL BE MADE CONT. AROUND CORNERS USING CORNER BARS OR BY BENDING THE BAR. A MINIMUM SPLICE LENGTH SHALL BE 48"

1'-0"

WALL SHEATHING, SEE PLAN

CORRUGATED BRICK TIES @ 16" O.C. HORIZ. & 18" O.C. VERT. MAX.

BRICK VENEER, SEE ARCH.

WEEP HOLES @ 32" O.C. MAX.

FLASHING, INSTALL PER MFG RECOMMENDATIONS

2x STUDS @ 16" O.C.

5/8"Ø ANCHOR BOLT @ 24" O.C., SEE DETAIL. PROVIDE EACH ANCHOR BOLTS WITHIN 12" OF EACH END OF EACH PLATE WHERE SILL PLATES ABUT UNDER WINDOW OPENING. ADDITIONAL ANCHOR BOLTS ARE REQUIRED WITHIN 12" OF EACH END OF PLATE

PT 2x SILL PLATE CONT.

#4 BAR CONT.

#4 DOWELS @ 24" O.C.

VARIES (2" MAX.)

MIN.

1'-3"

1'-0"

6"

3"

C.R.

5"

1'-4"

1'-9"

6x6 W1.4xW1.4 (10 GA.) WWF

6 MIL POLY VAPOR BARRIER ON COMPACTED SANDY FILL (COMPACT BASE AND SUBGRADE TO 95% STANDARD DENSITY)

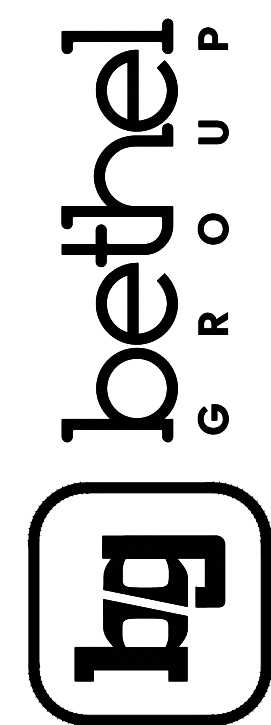
(3) #4 BARS CONT. IN BOTTOM OF FOOTING WIRED TO CHAIRS. BOTTOM BARS SHALL BE MADE CONT. AROUND CORNERS USING CORNER BARS OR BY BENDING THE BAR. A MINIMUM SPOCE LENGTH SHALL BE 48d

FINISHED FLOOR EL. VARIES

NOTE: GRADE SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'-0" PER IRC R401.3.

VERIFY w/ ARCH.

CB/E ENGINEERING CB, LLC
3233 Executive Park Cir.
Mobile, AL 36606
251-661-4747
thethegroup.com



PROPOSED NEW CONSTRUCTION FOR
BLAIR CONSTRUCTION
13 NATURES TRAIL
GULF SHORES, AL 36542

[illegible]

PROJECT NUMBER:	CB2303-024
DRAWN BY:	EPP
CHECKED BY:	VDL
ISSUE DATE:	05-25-23



SHEET TITLE & NUMBER:
FOUNDATION SECTIONS &
DETAILS

S-1.1

LAST SAVED: EMLY PRINTED BY: JARED HENDRICKSON 5/26/2023 12:22:38 PM M:\Bethel Engineering\Main\Structural Engineering\B/E Engineering CB, LLC\2023\CB2303-024 Blair\CB2303-024 Blair.dwg THESE DRAWINGS & DESIGN INTENT ARE THE SOLE PROPERTY OF B/E ENGINEERING CB, LLC AND THEIR CLIENT. & MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION. DO NOT SCALE FROM DRAWINGS.

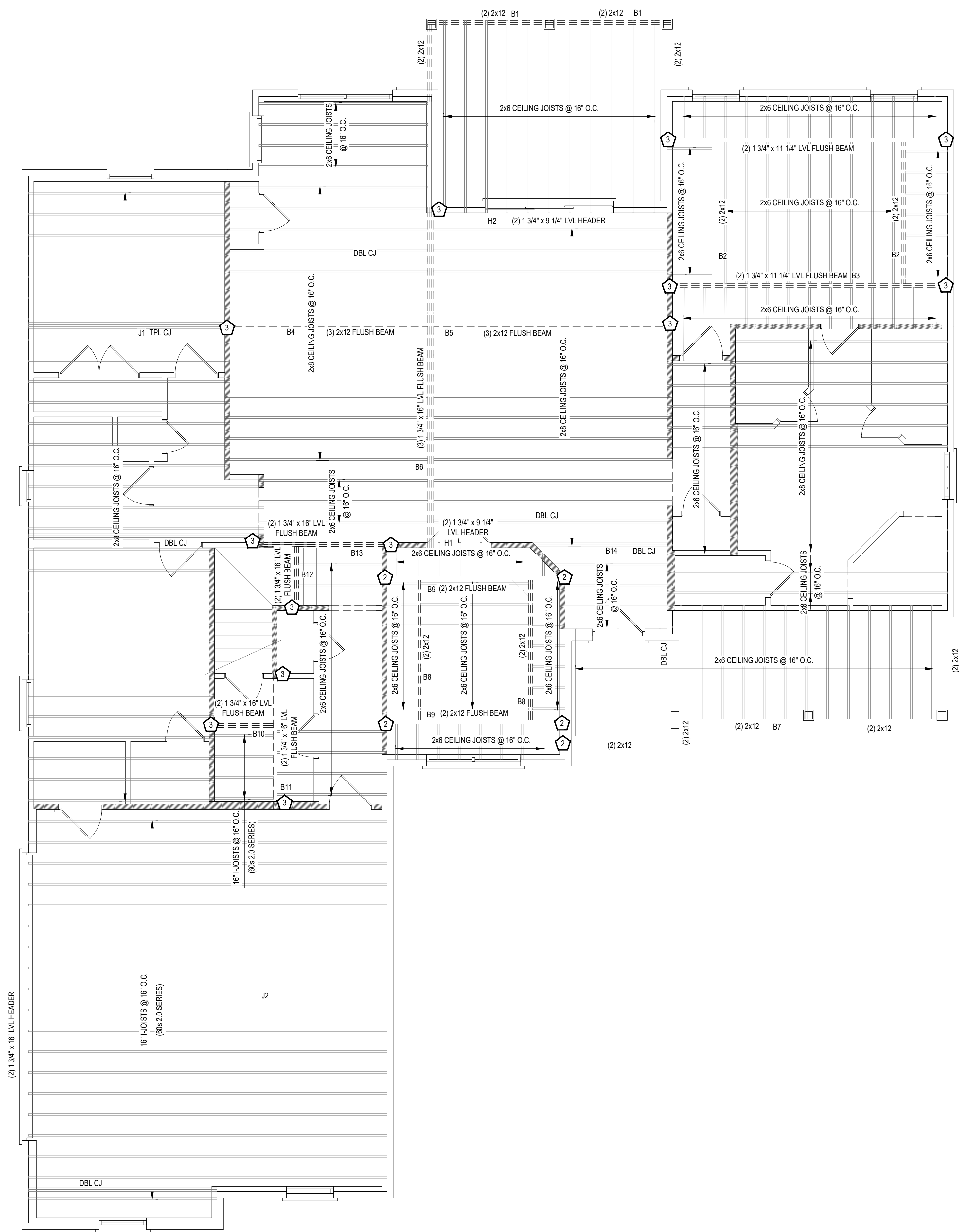
HANGER REQUIREMENTS		
SOLID SAWN LUMBER	MEMBER BEING HUNG	FACE-MOUNT HANGER BY SIMPSON STRONG-TIE
	(1) 2x4	LUS24
	(2) 2x4	LUS24-2
	(1) 2x6	LUS26
	(2) 2x6	LUS26-2
	(3) 2x6	LUS26-3
	(1) 2x8	LUS28
	(2) 2x8	LUS28-2
	(3) 2x8	LUS28-3
	(1) 2x10	LUS210
	(2) 2x10	LUS210-2
	(3) 2x10	LUS210-3
	(1) 2x12	HU212
	(2) 2x12	HUS212-2 / HUC212-2
	(3) 2x12	HU212-3 / HUC212-3
ENGINEERED LUMBER	(2) 1 3/4" x 11 1/4" LVL	HUS412 / HUC412
	(3) 1 3/4" x 11 1/4" LVL	HU612 / HUC612
	(2) 1 3/4" x 16" LVL	HU416 / HUC416
	(3) 1 3/4" x 16" LVL	HU616 / HUC616
	16" I-JOIST (1 3/4" FLANGE)	IUS1.81 / 16
	16" I-JOIST (2 5/16" FLANGE)	IUS2.37 / 16
	16" I-JOIST (2 9/16" FLANGE)	IUS2.56 / 16
	16" I-JOIST (3 1/2" FLANGE)	IUS3.56 / 16

NOTES:

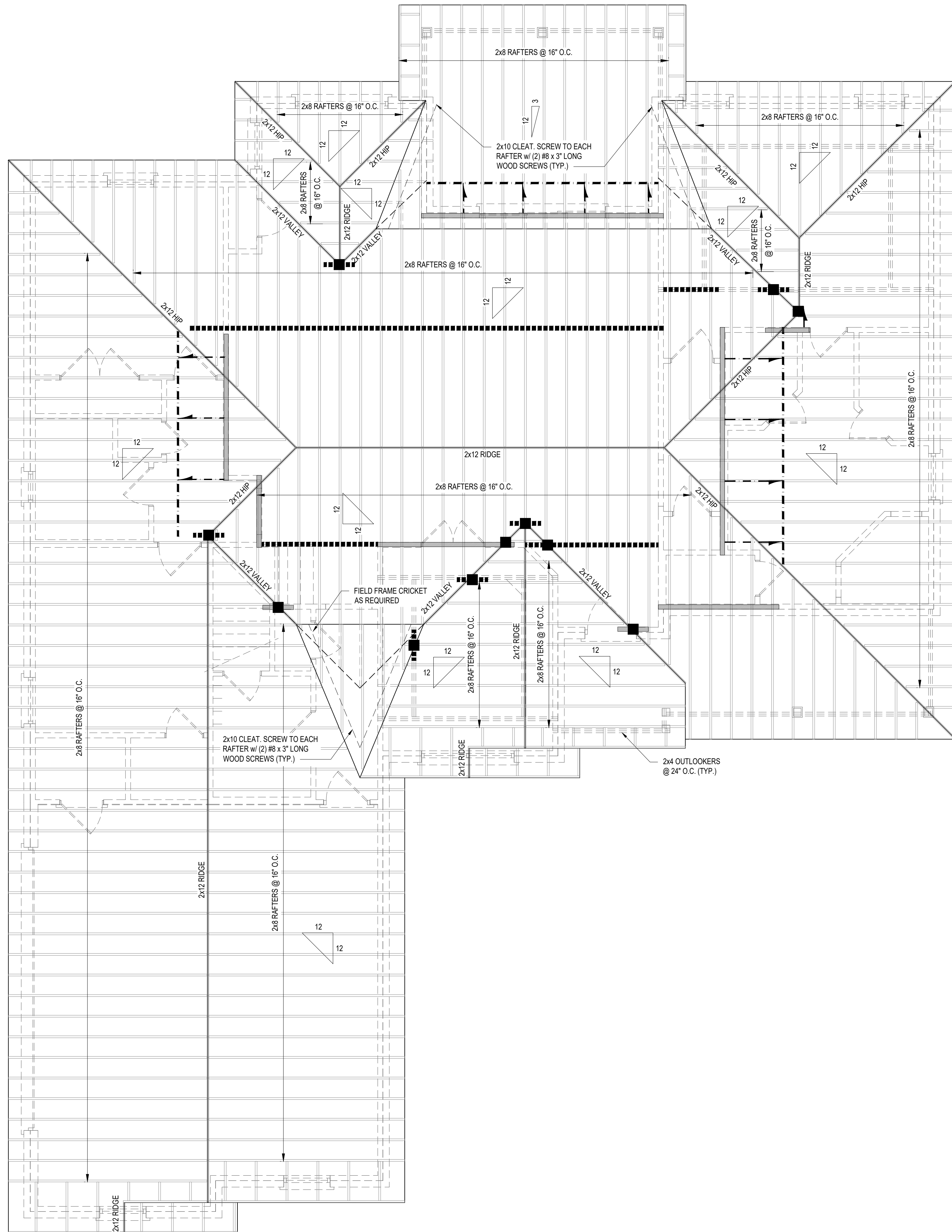
- A HANGER IS REQUIRED WHERE NO BEARING CONDITION EXISTS.

MINIMUM EXTERIOR WALL STUD, SIZE, & SPACING REQUIREMENTS	
FOR SPRUCE-PINE-FIR #3 / STUD IN EXPOSURE C LOCATIONS	
STUD HEIGHT	LOAD BEARING STUDS SUPPORTING
9'-0" MAX.	2x4 @ 16" O.C.
10'-0" MAX.	2x6 @ 16" O.C. OR 2x4 @ 12" O.C. OR 2x4 @ 16" O.C. (#2 SPRUCE)
12'-0" MAX.	2x6 @ 16" O.C.
14'-0" MAX.	2x6 @ 12" O.C.
15'-0" MAX.	2x6 @ 16" O.C.
18'-0" MAX.	2x8 @ 12" O.C.

16" I-JOIST REQUIREMENTS		
(DL = 10 PSF / LL = 40 PSF)		
BOISE CASCADE BCI JOIST SERIES	ALLOWED L/480 @ 16" O.C.	PREFERRED L/960 @ 16" O.C.
4500s 1.8	22'-0"	18'-0"
6000s 1.8	24'-9"	19'-4"
6500s 1.8	25'-4"	19'-9"
60s 2.0	27'-0"	21'-1"
90s 2.0	30'-4"	23'-7"



MAXIMUM UNBRACED SPAN LENGTHS		
FOR 2x8 RAFTERS @ 16" O.C.		
	ROOF PITCH	UNBRACED SPAN LENGTH
EXPOSURE C	0:12 - 2:12	10'-7"
	3:12	10'-5"
	4:12	10'-3"
	5:12	9'-11"
	6:12	9'-8"
	7:12	11'-5"
	8:12	11'-4"
	9:12	10'-7"
	10:12	10'-3"
	11:12	9'-9"
	12:12	9'-4"



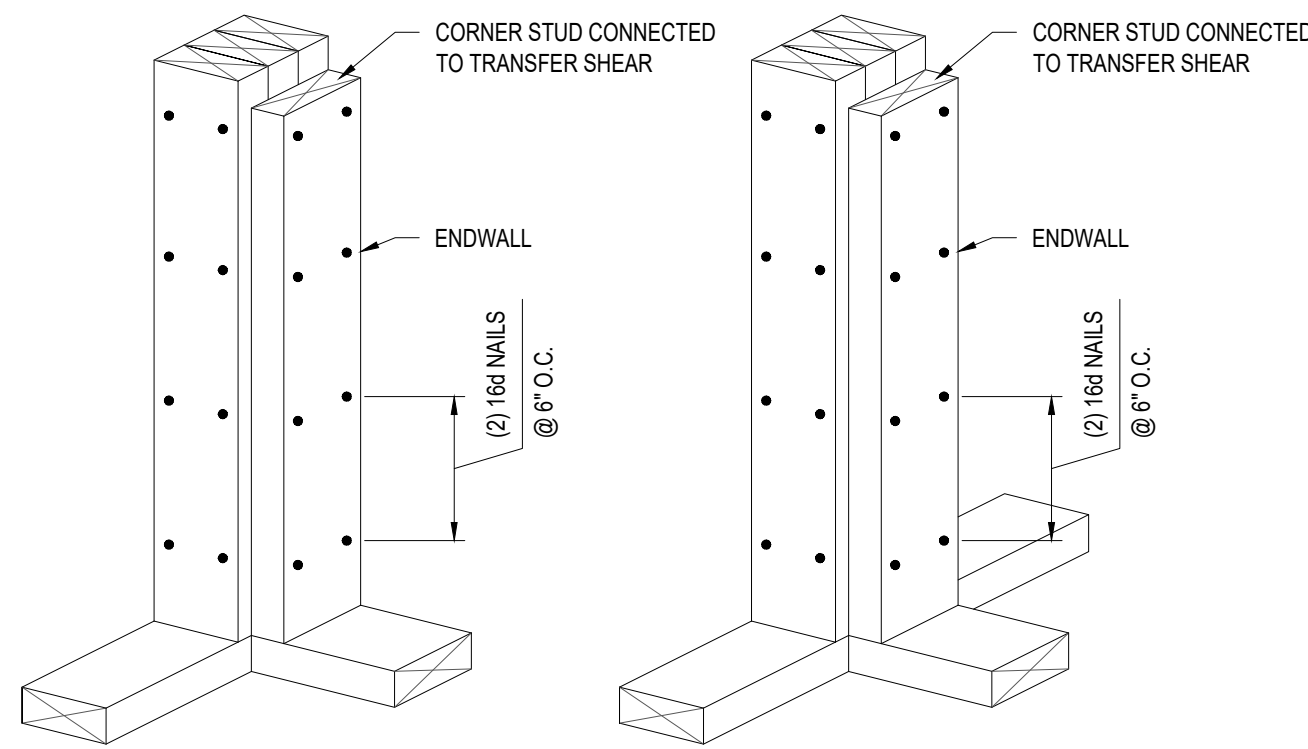
SCALE: 1/4" = 1'-0"

- NOTES:**
1. ALL RAFTERS SHALL BE 2x8 RAFTERS @ 16" O.C. U.N.O.
 2. ALL RIDGES, HIPS, AND VALLEYS SHALL BE 2x12 U.N.O. ALL RIDGE BOARDS, HIPS AND VALLEYS SHALL BE AT LEAST 2 INCHES NOMINAL IN THICKNESS AND NOT LESS THAN THE DEPTH OF THE CUT END OF THE RAFTER. THE RAFTERS SHALL BE PLACED DIRECTLY OPPOSITE OF EACH OTHER.
 3. ALL ROOFS SHALL HAVE 15/32" NOMINAL APA RATED PLYWOOD OR OSB SHEATHING OR WITH 8d ROOF SHANK NAILS AT 4" O.C. EDGE AND 4" O.C. FIELD SPACING.

LEGEND:

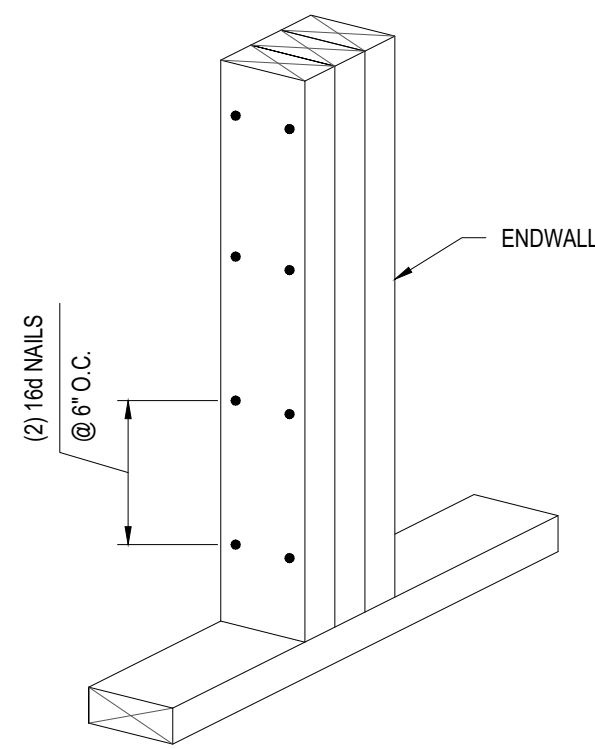
	UPWARD DIRECTION OF BRACE TO BRACE LINE
	BRACING WALL BELOW
	BRACING BEAM BELOW
	BRACING POINT
	BRACING POINT DOWN TO A WALL
	BRACING POINT DOWN TO A BEAM

[illegible]



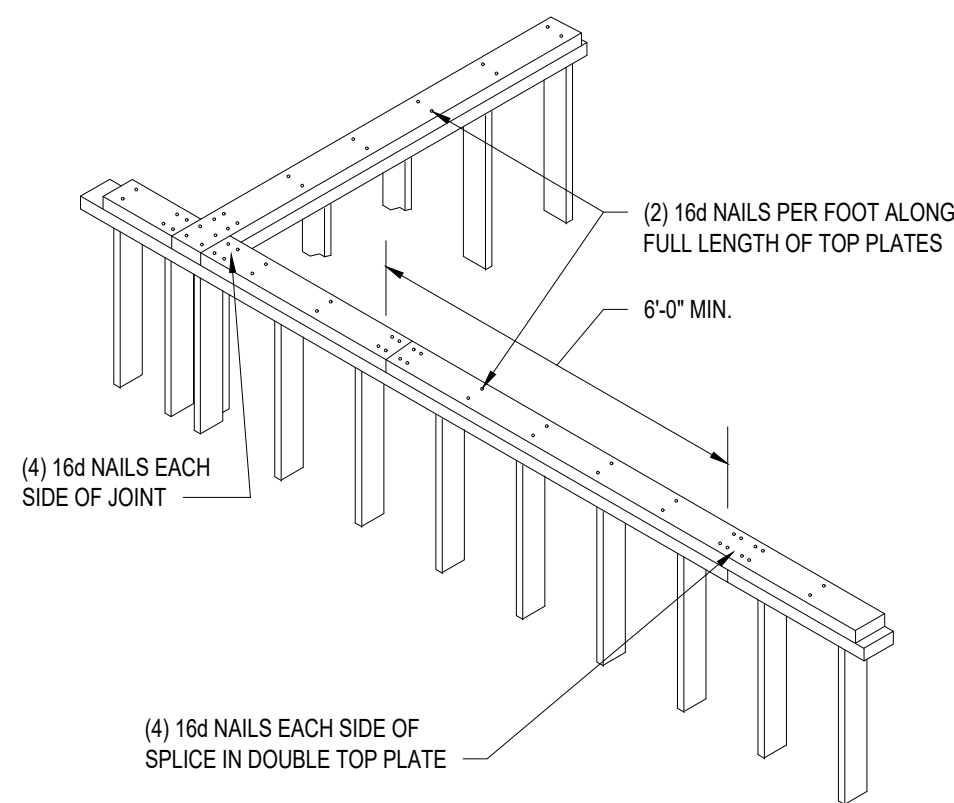
EXTERIOR CORNER & "T" STUD DETAIL

SCALE: 1 1/2" = 1'-0"



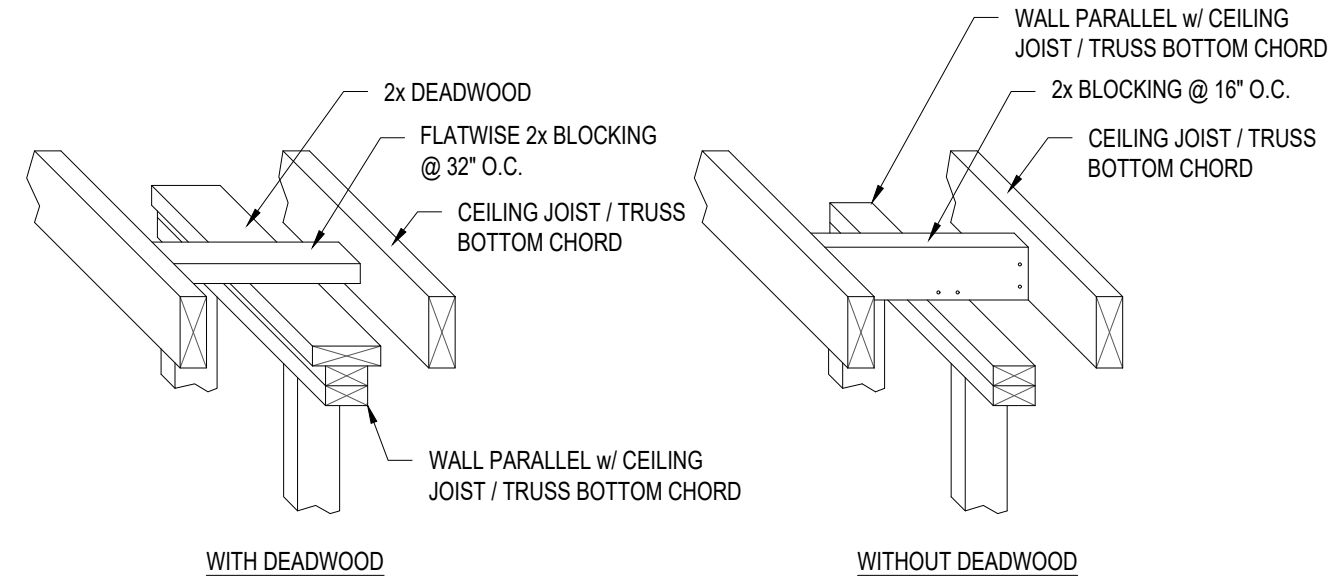
PACK STUD DETAIL

SCALE: 1 1/2" = 1'-0"



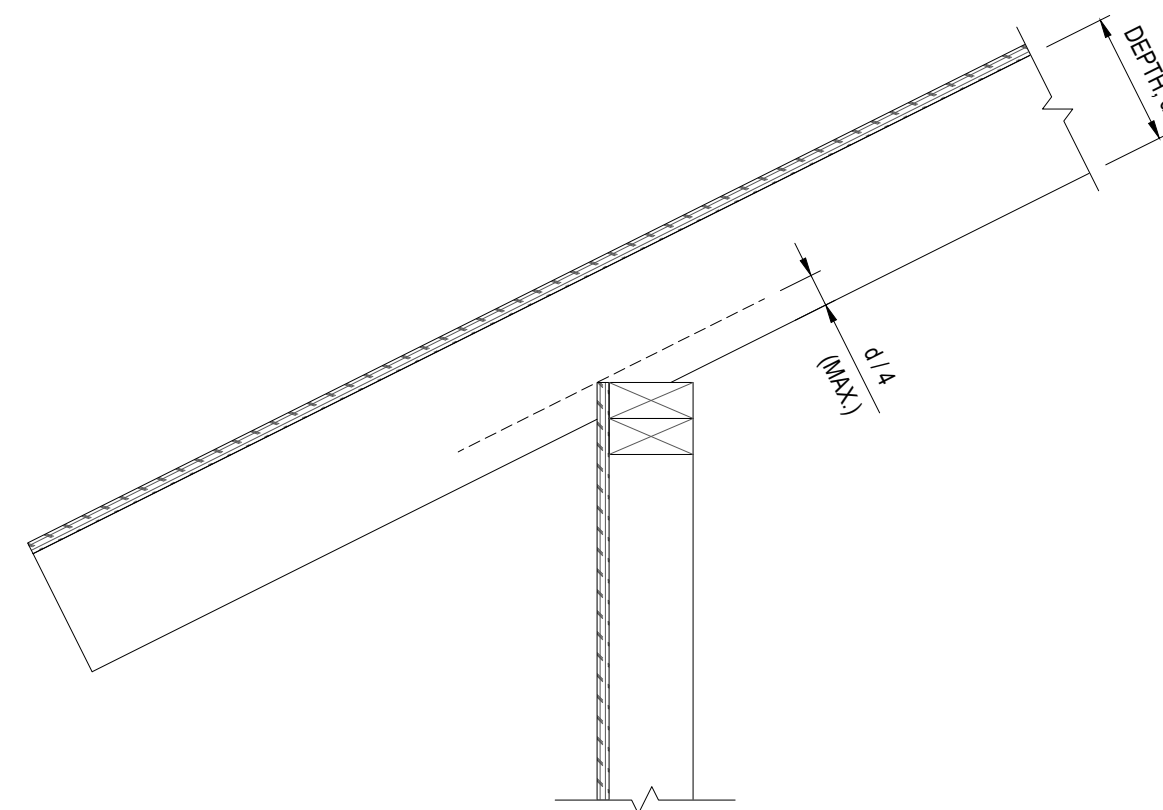
TYPICAL TOP PLATE NAILING & SPLICE

SCALE: N.T.S.



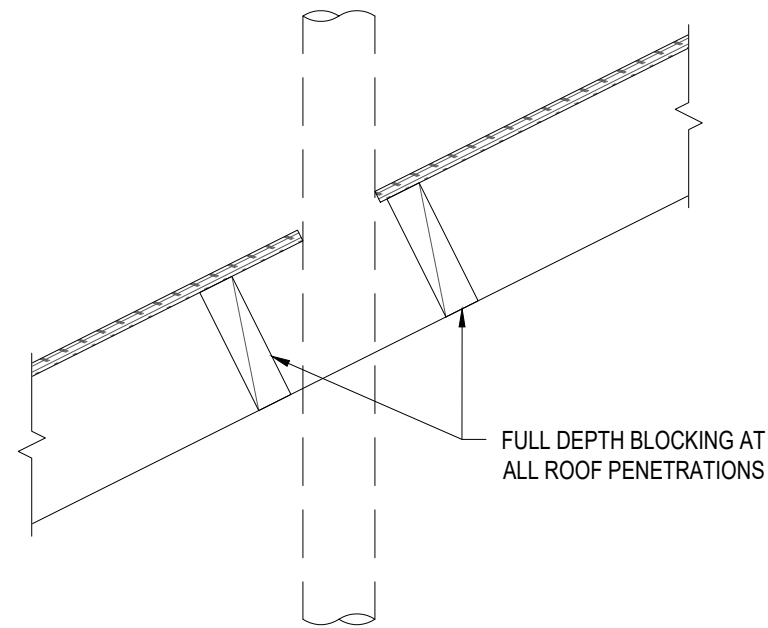
PARALLEL JOIST & STUD DETAIL

SCALE: 3/4" = 1'-0"



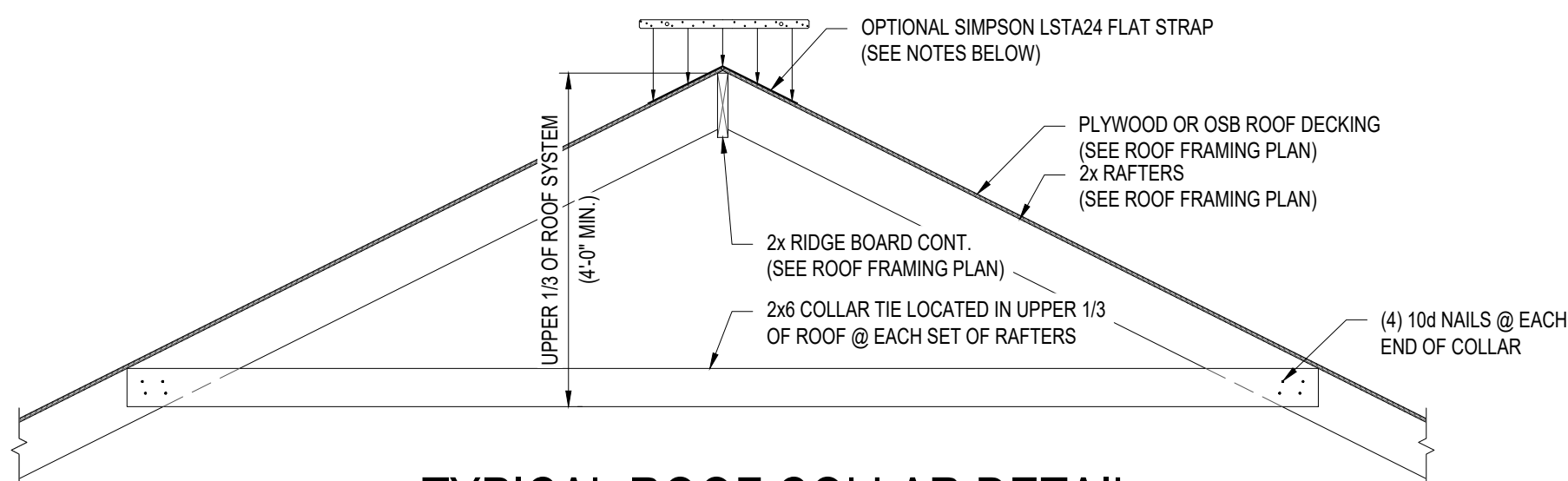
BIRDSMOUTH DETAIL

SCALE: 1 1/2" = 1'-0"



BLOCKING AT ROOF PENETRATIONS

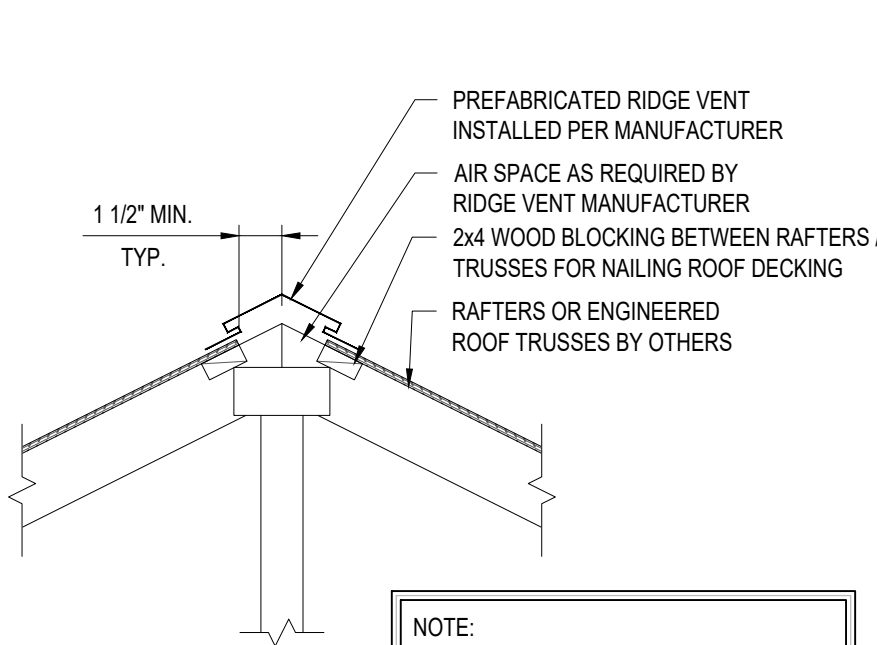
SCALE: 1 1/2" = 1'-0"



TYPICAL ROOF COLLAR DETAIL

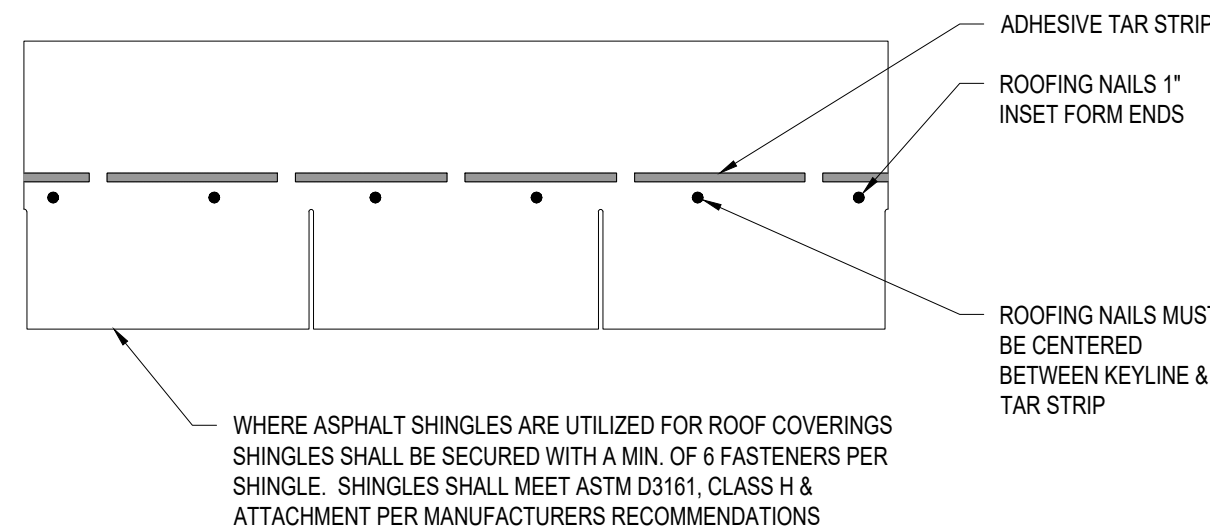
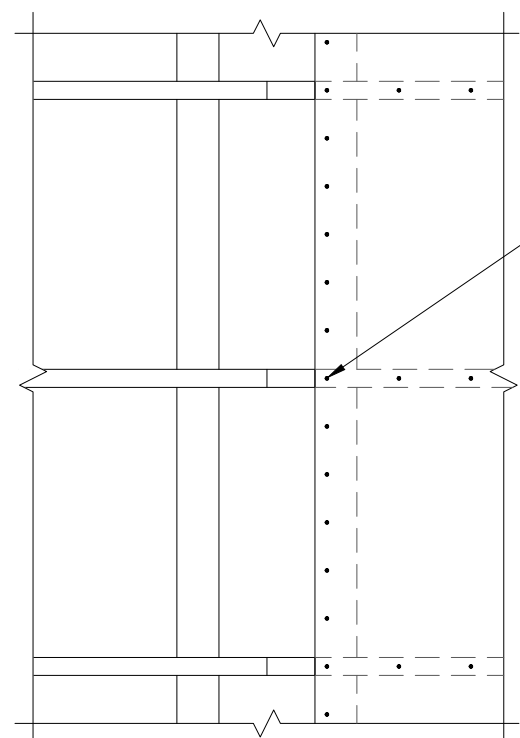
SCALE: 1/2" = 1'-0"

- NOTES:
1. CONTRACTOR HAS THE OPTION TO USE SIMPSON LSTA24 FLAT STRAP @ EACH SET OF RAFTERS IN LIEU OF THE 2x6 ROOF COLLARS NOTED. FASTEN STRAP w/ (6) 8d NAILS ON EACH SIDE OF RIDGE INTO OPPOSING RAFTERS.
 2. WHEN STRAPS ARE USED, 2x6 ROOF COLLARS NOTED SHALL BE SPACED AT 6'-0" ON CENTER MAXIMUM.



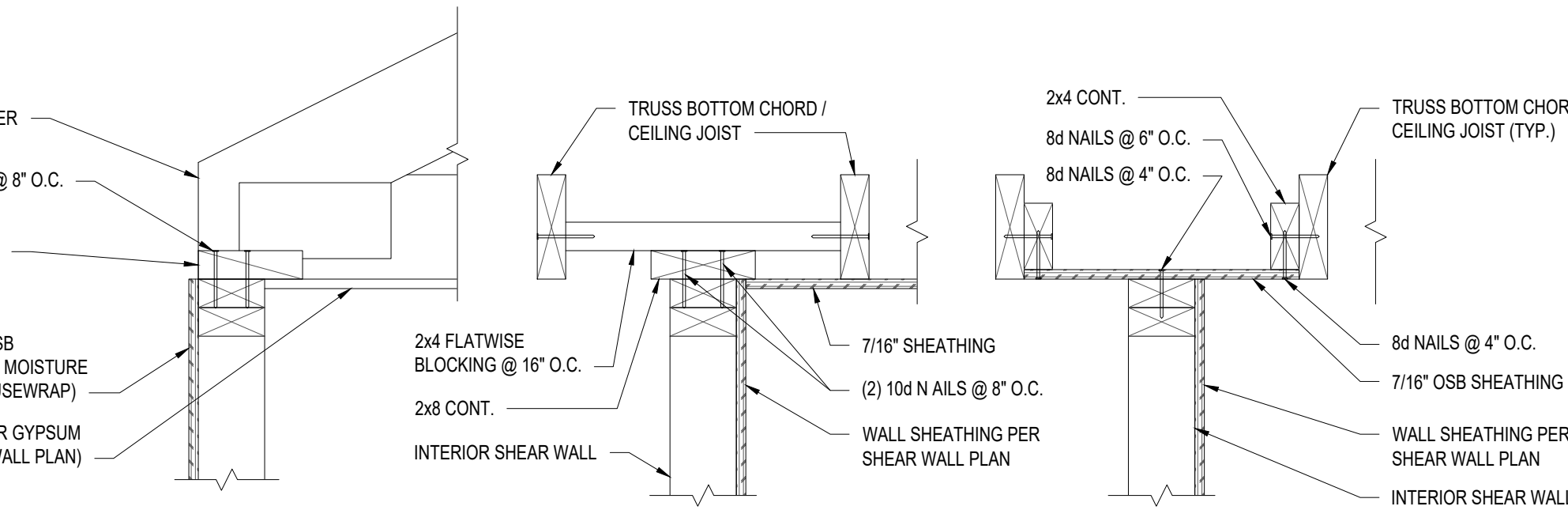
RIDGE VENT BLOCKING DETAIL

SCALE: 3/4" = 1'-0"



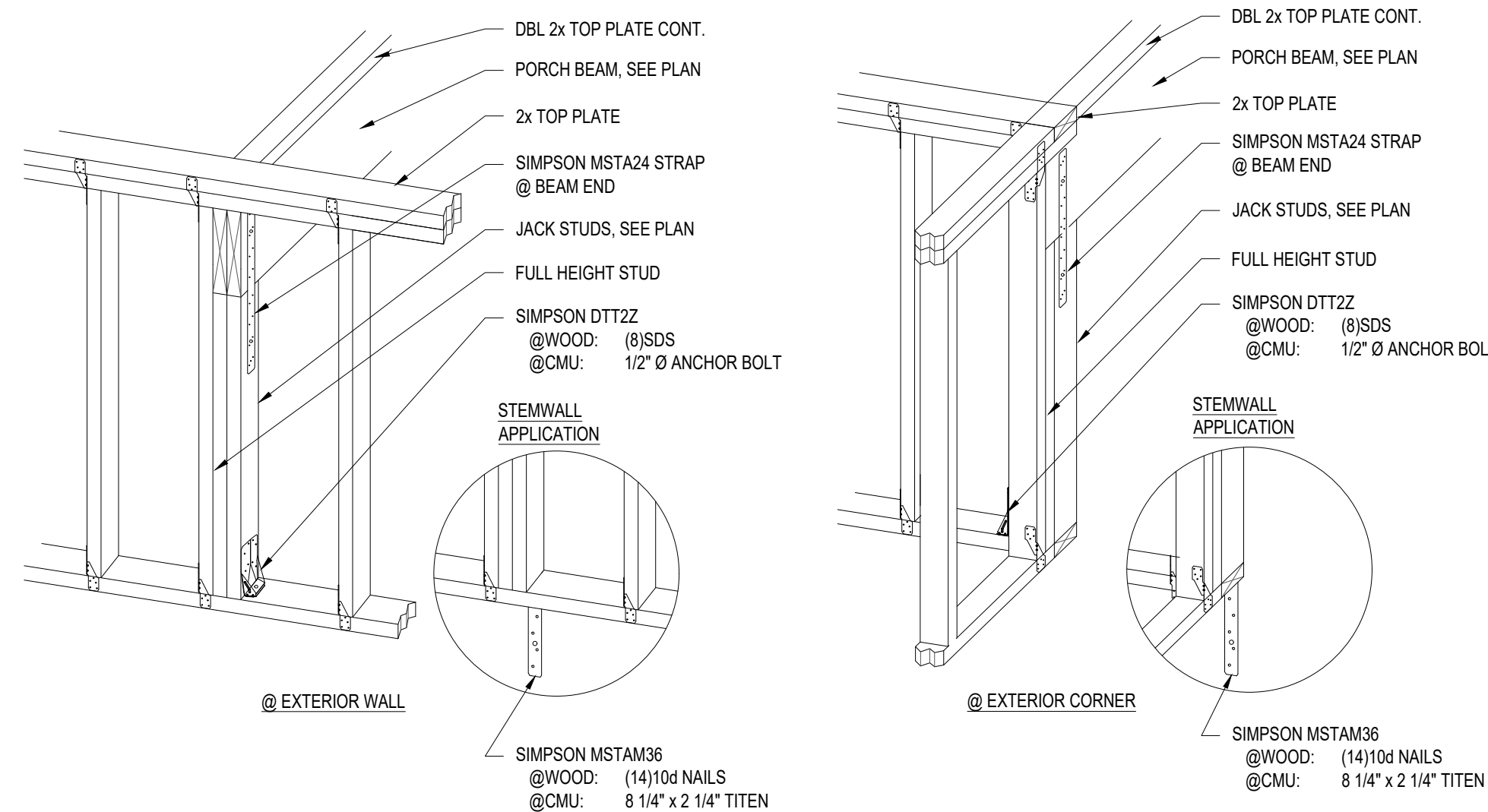
ASPHALT SHINGLE NAILING DIAGRAM

SCALE: 1 1/2" = 1'-0"



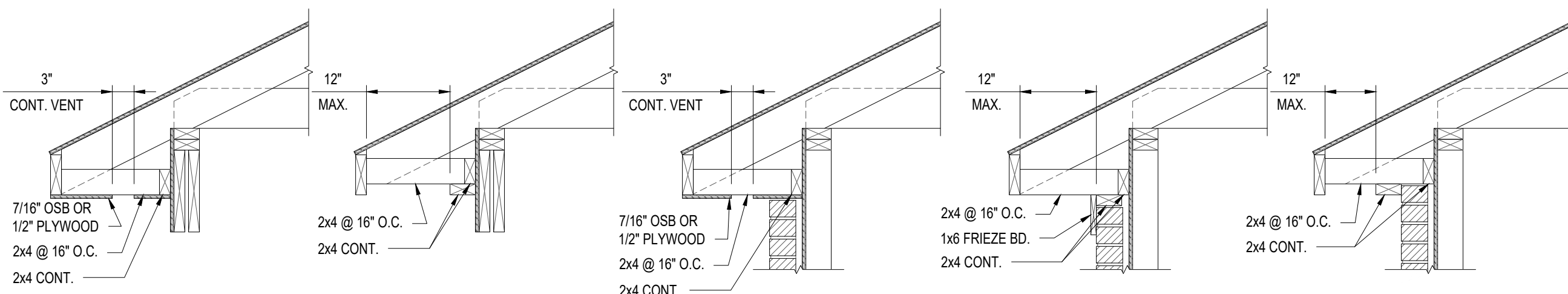
HORIZONTAL DIAPHRAGM CONNECTION DETAILS

SCALE: 1 1/2" = 1'-0"



PORCH BEAM TO EXTERIOR WALL DETAILS

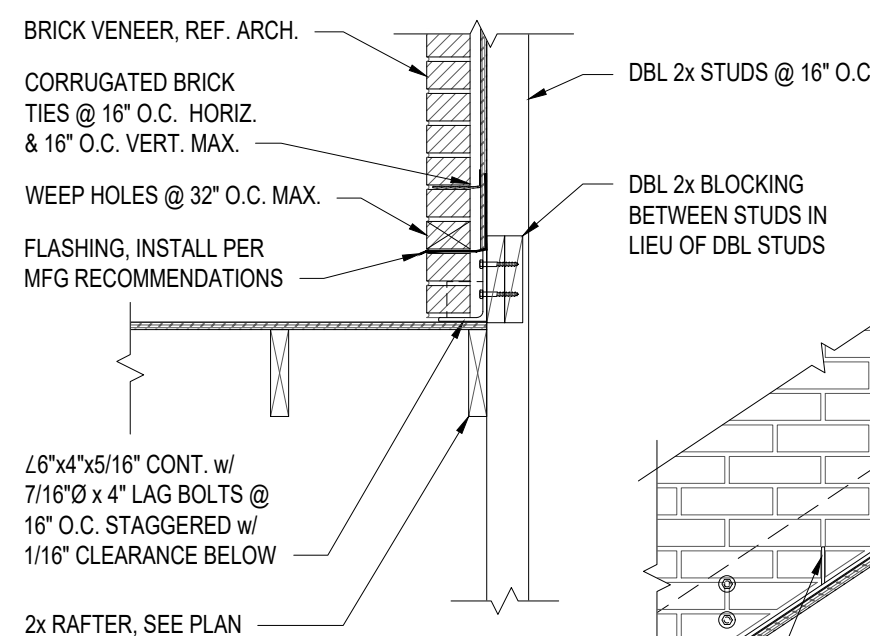
SCALE: 3/4" = 1'-0"



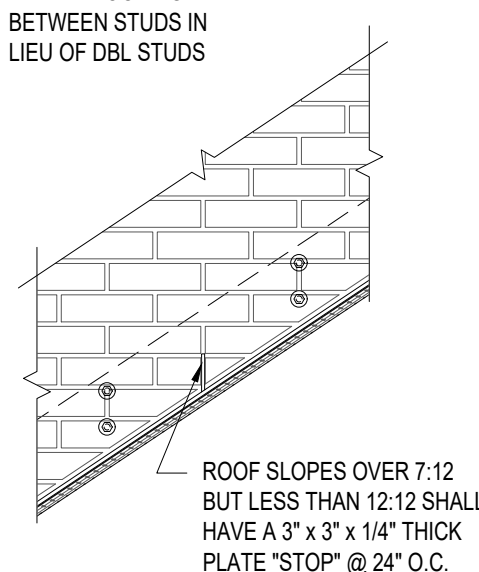
ALUMINUM / VINYL SOFFIT NAILING DETAILS

SCALE: 3/4" = 1'-0"

- NOTES:
1. DETAILS SHOWN ARE LISTED AS OPTIONS. CONTRACTOR MAY SELECT ANY OPTION.
 2. IF AN ALTERNATE WAY OF FRAMING IS DESIRED, CONTRACTOR SHALL CONTACT ENGINEER OF RECORD TO VERIFY CONFORMABILITY TO LOCAL STANDARDS OR CODES.
 3. THIS DETAIL SHALL ONLY APPLY IF SOFFIT MATERIAL IS ALUMINUM OR VINYL. IF AN ALTERNATE MATERIAL IS CHOSEN, THIS DETAIL MAY NOT BE REQUIRED.

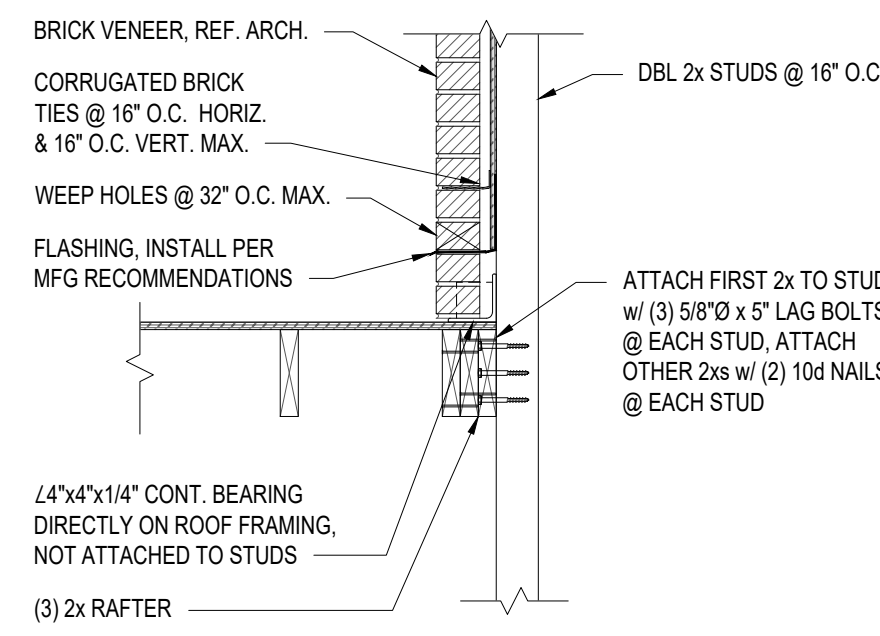


OPTION 1

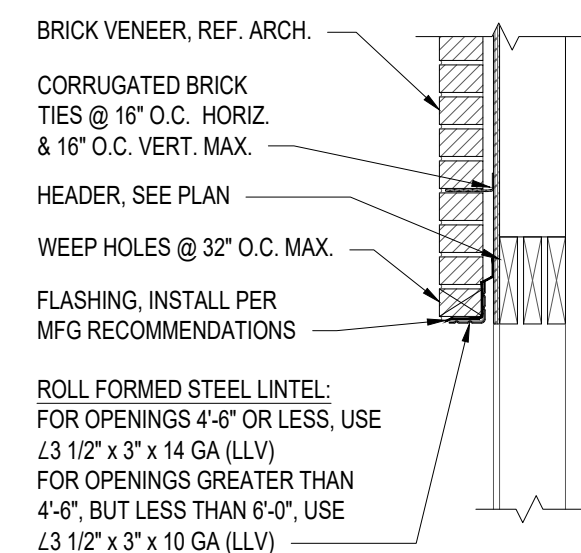


TYPICAL BRICK OVER ROOF LINTEL DETAIL

SCALE: 3/4" = 1'-0"

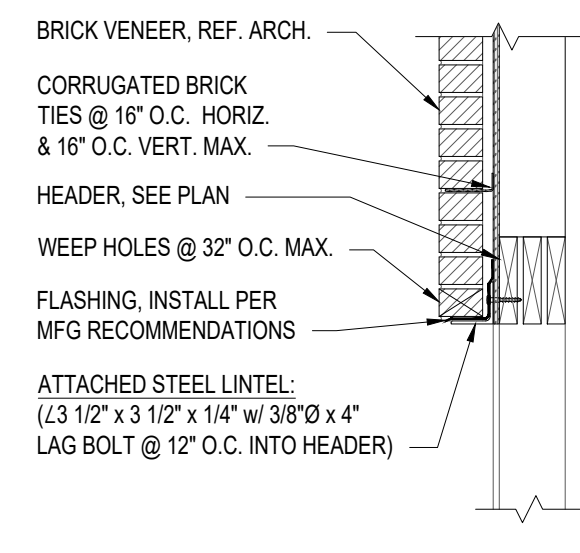


OPTION 2



LOOSE LINTEL (OPENINGS 7'-6" OR LESS)

NOTE: LINTELS SHALL HAVE A LENGTH OF BEARING NOT LESS THAN 4 INCHES. LINTELS SHALL BE SHOP COATED w/ A RUST-INHIBITIVE PAINT, EXCEPT FOR LINTELS MADE OF CORROSION-RESISTANT STEEL OR STEEL TREATED w/ COATINGS TO PROVIDE CORROSION RESISTANCE.



ATTACHED LINTEL

TYPICAL BRICK STEEL LINTEL DETAIL

SCALE: 3/4" = 1'-0"

PROPOSED NEW CONSTRUCTION FOR
BLAIR CONSTRUCTION
13 NATURES TRAIL
GULF SHORES, AL 36642

REV	DATE	BY	DESCRIPTION	REVISION LOG

PROJECT NUMBER: CB2303-024
DRAWN BY: EPR
CHECKED BY: VDL
ISSUE DATE: 05-25-23



SHEET TITLE & NUMBER:
FRAMING SECTIONS & DETAILS

S-5.0

B/E ENGINEERING CB, LLC
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