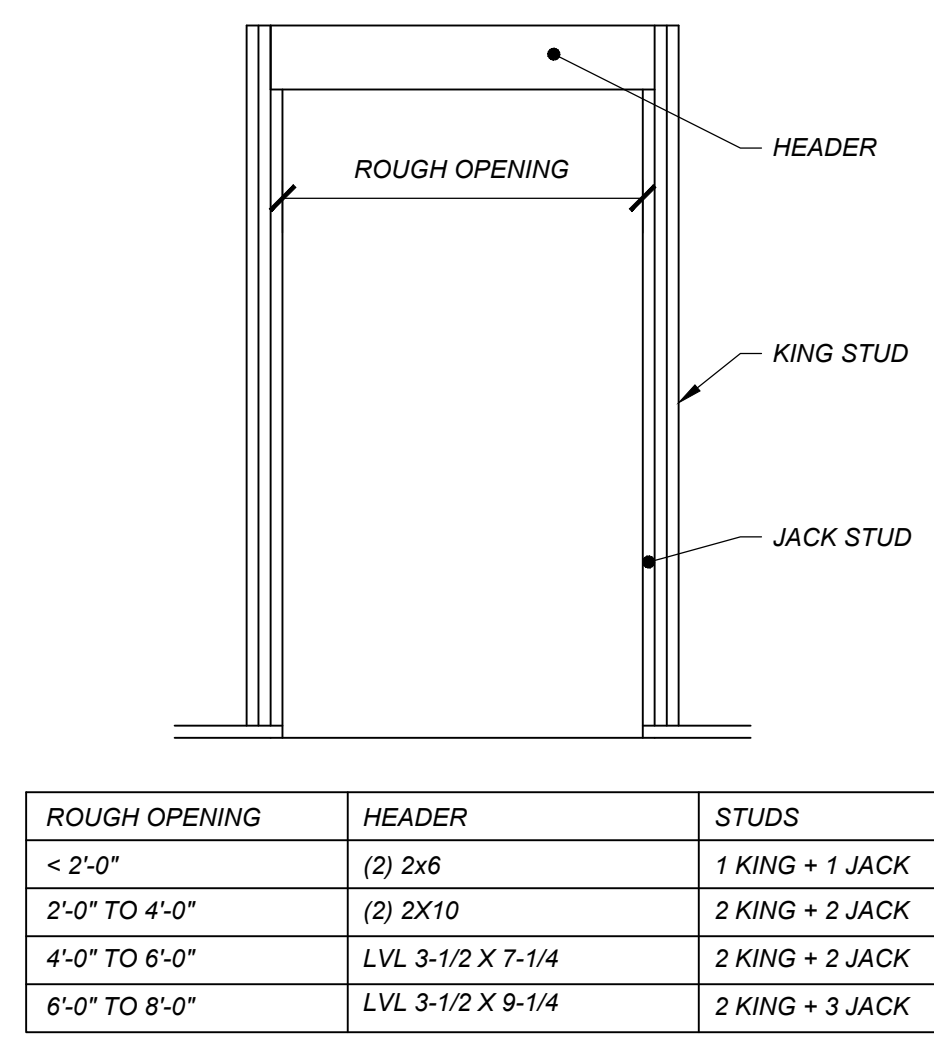
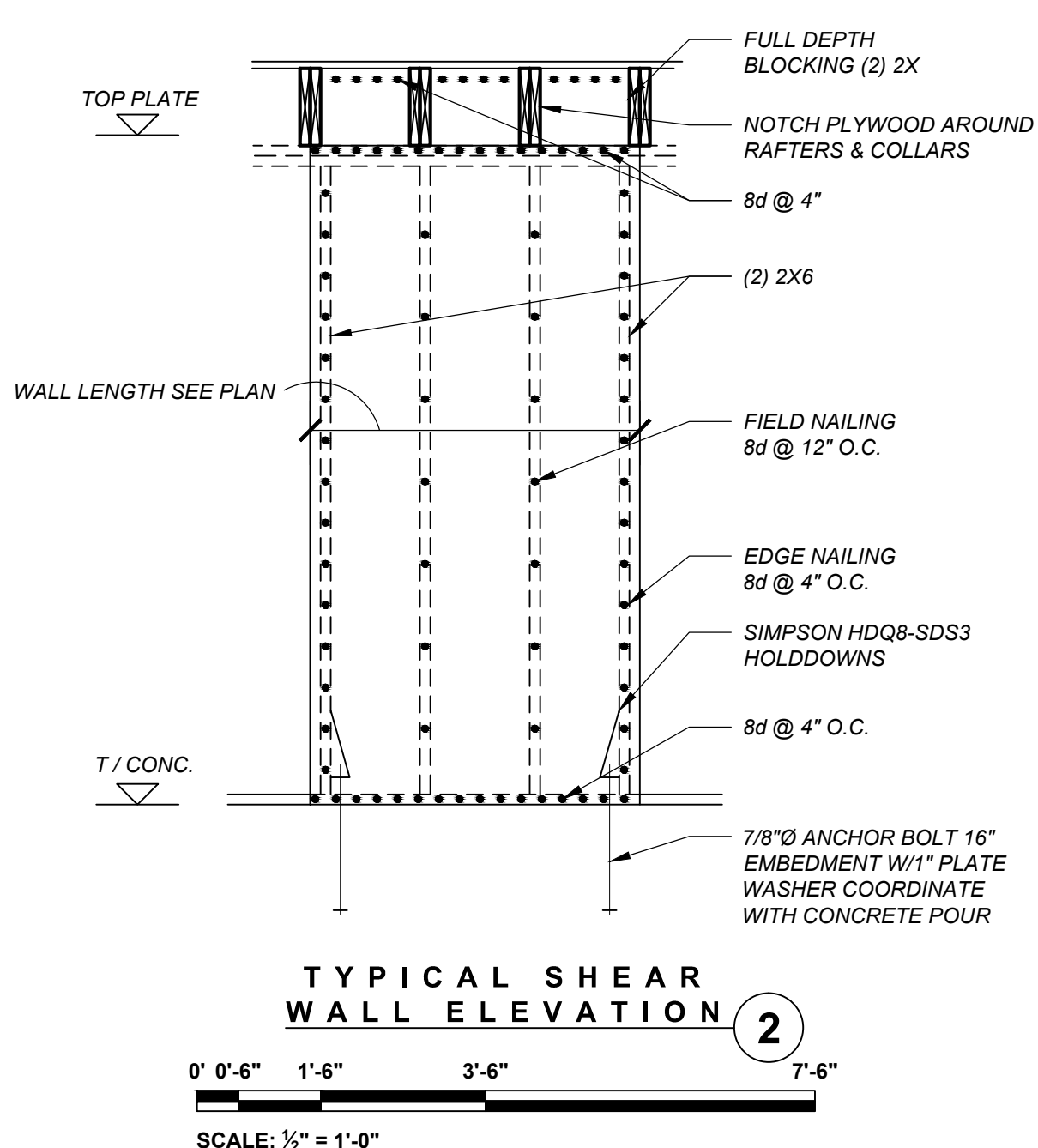


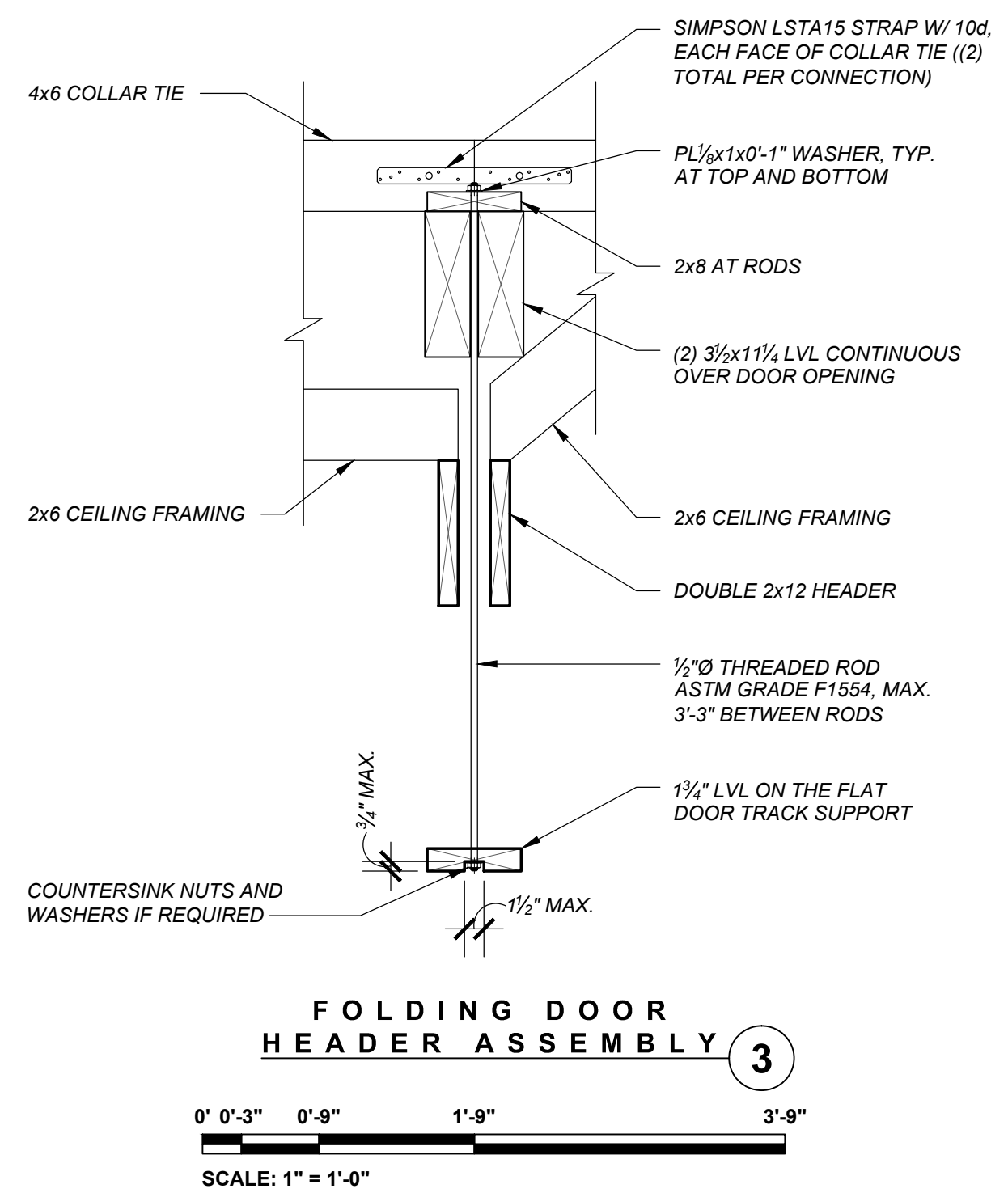
HEADER DETAIL 4



TYPICAL HEADER SCHEDULE 1



TYPICAL SHEAR WALL ELEVATION 2



FOLDING DOOR HEADER ASSEMBLY 3

STRUCTURAL NOTES

- BUILDING HAS BEEN DESIGNED TO COMPLY WITH THE 2009 INTERNATIONAL CODE COMMITTEE FAMILY OF CODES INCLUDING BY REFERENCE: ASCE 7-10; AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION; NATION DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2012 EDITION; ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 318-08.
- BUILDING HAS BEEN DESIGNED TO INCLUDE BALANCED/UNBALANCED SNOW LOADS IN ACCORDANCE WITH ASCE 7. GROUND SNOW LOAD, PG = 50 PSF; IMPORTANCE FACTOR, IS = 1.0; EXPOSURE FACTOR, CE = 0.9; THERMAL FACTOR, CT = 1.0.
- BUILDING HAS BEEN DESIGNED TO RESIST LATERAL LOADS USING AMERICAN WOOD COUNCIL PRESCRIPTIVE METHODS FOR CONVENTIONAL CONSTRUCTION (WOOD-FRAME CONSTRUCTION MANUAL FOR ONE- AND TWO-FAMILY DWELLINGS). THOSE ITEMS WHICH EXCEED THE LIMITATIONS OF THIS DOCUMENT HAVE BEEN DESIGNED FOR ALL REQUIRED LOADS AND FORCES.
- FOUNDATIONS NOT SHOWN AS BEARING ON ROCK ARE BASED ON A PRESUMPTIVE BEARING PRESSURE OF 1500 PSF (IBC TABLE 1804.2).
- CONCRETE USED SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615, GRADE 60. FLY ASH MAY BE USED AS A CEMENTITIOUS SUBSTITUTE FOR PORTLAND CEMENT UP TO 50% OF THE CEMENT WEIGHT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 TYPE 1 GRADE N. MORTAR SHALL CONFORM TO ASTM C270 TYPE N. GROUT SHALL CONFORM TO ASTM C476 (2,500 PSI).
- EXTERIOR CONCRETE SHALL HAVE 6% (+1/2%, -1%) AIR ENTRAINMENT.
- STEEL SHAPES USED IN FRAMING SHALL COMPLY WITH THE FOLLOWING MATERIAL REQUIREMENTS:
A. CHANNELS, PLATES AND ANGLES: ASTM A36.
B. THREADED RODS: ASTM F1554.
- WOOD FRAMING INDICATED IN THE DRAWING BY NOMINAL SIZES (2X4, 2X6, ETC) SHALL BE KILN DRIED SPRUCE-PINE-FIR, #2 OR BETTER. WOOD FRAMING WITH WIDTHS LARGER THAN 5" SHALL BE EASTERN HEMLOCK, #1 OR BETTER (UNLESS NOTED OTHERWISE). WOOD FRAMING THAT IS IN CONTACT WITH CONCRETE OR WITHIN 6" OF FINISHED GRADE SHALL BE TREATED SOUTHERN YELLOW PINE.
- ALL NAILS USED IN THE PROJECT SHALL BE COMMON TYPE NAILS. ALL FASTENERS AND METAL HANGERS USED IN COMBINATION WITH PRESSURE TREATED WOOD SHALL BE TREATED SPECIFICALLY FOR USE WITH TREATED MATERIALS.
- ROOF SURFACES SHALL BE COVERED WITH 5/8" (OR THICKER) APA RATED 40/20 SHEATHING RATED FOR EXTERIOR USE. PANELS SHALL BE ORIENTED WITH LONG DIMENSION RUNNING PERPENDICULAR TO SUPPORTING MEMBERS.
- EXTERIOR WALLS SHALL BE COVERED WITH 5/8" APA RATED SHEATHING RATED FOR EXTERIOR USE. PANELS SHALL BE ORIENTED WITH LONG DIMENSION RUNNING HORIZONTAL (PARALLEL TO GROUND).
- FLOORS SHALL BE DECKED WITH 3/4" TONGUE & GROOVE APA RATED SHEATHING. PANELS SHALL BE ORIENTED WITH LONG DIMENSION RUNNING PERPENDICULAR TO SUPPORTING MEMBERS. APPLY CONSTRUCTION ADHESIVE TO TOP OF ALL SUPPORTS PRIOR TO SHEATHING INSTALLATION. #10 DECK SCREWS MAY BE SUBSTITUTED FOR NAILS.
- CONNECTIONS AND FASTENERS NOTED IN THE DRAWINGS SHALL BE CONSIDERED TYPICAL AT ALL SIMILAR CONNECTIONS UNLESS NOTED OTHERWISE.
- CONNECTORS NOTED BY PART NUMBER ARE BY SIMPSON STRONG-TIE OR APPROVED EQUAL INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- FRAME MEMBERS NOTED AS GLULAM SHALL BE VERSA-LAM 2.0 3100 SERIES BY BOISE CASCADE OR APPROVED EQUAL INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR SHORING, TEMPORARY STABILITY, AND MEANS & METHODS OF CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER IF THE WORK RESULTS IN EXCESSIVE DEFLECTION OR CRACKING.

TYPICAL FASTENER SCHEDULE	
SILL PLATE TO FOUNDATION	1/2" ANCHOR BOLT @ 36" O.C. W/ 3" PLATE WASHER; 9" MIN. EMBEDMENT
ROOF SHEATHING	8d @ 6" O.C. EDGE / 12" O.C. FIELD (TYPICAL PANELS) 8d @ 6" O.C. EDGE / 6" O.C. FIELD (PERIMETER PANELS)
WALL SHEATHING	8d @ 6" O.C. EDGE / 12" O.C. FIELD
FLOOR SHEATHING	12d RING OR SPIRAL NAILS @ 6" O.C. EDGE / 12" O.C. FIELD
JOIST HANGERS	SIMPSON LUS (MATCH JOIST SIZE)
JOIST BEARING ON SILL, TOP PLATE, OR GIRDER	4 - 8d (TOENAILED)
BRIDGING / BLOCKING TO JOIST	2 - 8d (TOENAILED)
BLOCKING TO SILL / TOP PLATE	3 - 16d (TOENAILED)
LEDGER STRIP TO BEAM	3 - 16d (FACENAILED, PER JOIST)
JOIST ON LEDGER TO BEAM	3 - 8d (TOENAILED)
BAND / RIM JOIST TO JOIST	3 - 16d (ENDNAILED)
RIM JOIST TO SILL / TOP PLATE	2 - 16d PER FOOT
TOP PLATE TO TOP PLATE	2 - 16d PER FOOT
TOP PLATES AT INTERSECTION	4 - 16d EACH SIDE
STUD TO STUD	1 - 16d @ 12" O.C.
HEADER TO HEADER	16d @ 16" O.C. ALONG EDGES
TOP OR BOTTOM PLATE TO STUD	2 - 16d
BOTTOM PLATE TO FLOOR JOIST, RIM JOIST, END JOIST, OR BLOCKING	2 - 16d PER FOOT
RAFTER TO TOP PLATE	SIMPSON H2A TIE
CEILING JOIST TO TOP PLATE	2 - 8d (TOENAILED)
BLOCKING TO RAFTER	2 - 8d EACH END
BAND JOIST TO RAFTER	2 - 16d EACH END
RAFTER-TO-RAFTER TENSION STRAP OVER RIDGE BEAM (SLOPE > 6:12)	SIMPSON LSTA-9 OR EQUAL ALT: 1x COLLAR TIE IN UPPER 1/3 OF RAFTER SPAN WITH 4 - 10d EA. SIDE