

GOVERNING CODES

THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.

- A. "INTERNATIONAL BUILDING CODE", INTERNATIONAL CODE COUNCIL, INC., 2021
B. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ANSI/ASCE 7-16), AMERICAN SOCIETY OF CIVIL ENGINEERS
C. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318", AMERICAN CONCRETE INSTITUTE.
D. "ACI MANUAL OF CONCRETE PRACTICE - PARTS 1 THROUGH 5"
E. "MANUAL OF STANDARD PRACTICE", CONCRETE REINFORCING STEEL INSTITUTE.
F. "MANUAL OF STEEL CONSTRUCTION", FOURTEENTH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (INCLUDING SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, AND AISI CODE OF STANDARD PRACTICE WITH EXCEPTION, IF ANY, AS INDICATED IN THE SPECIFICATIONS).
G. "DETAILING FOR STEEL CONSTRUCTION", AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
H. "STRUCTURAL WELDING CODE ANSI/AWS D 1.1, AMERICAN WELDING SOCIETY.
I. "DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS", STEEL DECK INSTITUTE.
J. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", AMERICAN IRON AND STEEL INSTITUTE, NASPEC.
K. "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 5/TMS 402) & SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6/TMS 602)."

DESIGN LOADS

Table with 4 columns: DESIGN LOADS, LIVE LOADS, DEAD LOADS, TOTAL. Rows include ROOF TRUSSES, CONC SLAB ON GRADE, MECH. FLOOR DECK.

WIND LOAD BASED ON 117 MPH BASIC WIND SPEED 3 STORY EXPOSURE C, CAT II ENCLOSED SNOW LOAD BASED ON 20 PSF GROUND SNOW LOAD GROUND SNOW LOAD: (DRIFT LOADS INCLUDED ON SHEET S1.3 AND BY ROOF TRUSS MANUFACTURER) PG = 20 PSF

RAIN LOAD BASED ON 1-HOUR RAINFALL OF 3.25"

SEISMIC LOAD DATA

SITE CLASSIFICATION D RISK CATEGORY II SDS = 0.116, SD1 = 0.062 SS = 0.109 S1 = 0.039 Iw = 1.00 R = 6.5 SEISMIC DESIGN CATEGORY - A SFRS = SHEARWALL PROCEDURE: ELF BASE SHEAR (BOTH WAYS): 12.5 kips

BACK FILL 30 PCF EQUIVALENT FLUID WEIGHT, UNLESS OTHERWISE NOTED

THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDANT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CAST-IN-PLACE CONCRETE

ALL CONCRETE SHALL BE MADE IN ACCORDANCE WITH DESIGN MIXES WHICH ARE TO BE APPROVED BY THE ARCHITECT OR ENGINEER PRIOR TO CASTING ANY CONCRETE. MIXES SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE ACI 318. MIXES SHALL HAVE A MINIMUM CEMENT CONTENT OF 520 LB. PER CUBIC YD., MAXIMUM WATER-CEMENT RATIO OF 0.53 FOR INTERIOR CONCRETE PROTECTED FROM FREEZING AND 0.45 FOR ALL EXTERIOR EXPOSED CONCRETE.

MINIMUM SPECIFIED COMPRESSIVE STRENGTH f'c @ 28 DAYS.

Table with 3 columns: LOCATION, MIN. COMP. (FC), SLUMP (IN.). Rows include INTERIOR SLABS ON GRADE, FOOTINGS, OTHER.

NOTE: NO AIR ENTRAINMENT FOR INTERIOR SLABS

CONCRETE MATERIALS SHALL CONFORM TO ASTM C150, TYPE I FOR PORTLAND CEMENT AND ASTM C33 FOR AGGREGATES. WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494, TYPE A (FREE OF CALCIUM CHLORIDES), AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260, AND HIGH-RANGE WATER REDUCERS (SUPER-PLASTICIZERS) SHALL CONFORM TO ASTM C494, TYPE F. FLY ASH SHALL COMPLY WITH ASTM C619 FOR CLASS F AND SHALL NOT BE PROPORTIONED IN MIXES WITH MORE THAN 20% CEMENT BY WEIGHT. LIQUID-MEMBRANE CURING COMPOUNDS SHALL BE HIGH-SOLIDS, WATER AND ACRYLIC-BASED, COMPLYING WITH ASTM C309 AS TESTED UNDER ASTM C156. ADMIXTURES SHALL NOT BE USED WITHOUT APPROVAL BY ENGINEER.

SLAB CONTROL JOINTS: SAW CUT OR FORM TO 1/3 SLAB DEPTH. SPACE NO MORE THAN 20 FEET APART. DISCONTINUE WELDED WIRE FABRIC AT CONTROL JOINTS. PROVIDE JOINTS ON GROUND SUPPORTED SLABS IN RECTANGULAR CONFIGURATION, WITH THE LONGER SIDE NO MORE THAN ONE-AND-ONE-HALF TIMES THE LENGTH OF THE SHORTER SIDE.

SLAB ISOLATION JOINTS: PROVIDE PRE-MOLDED JOINT FILLER AROUND ALL PIPING, PIERS AND FOUNDATION WALLS. ALL CONCRETE TO BE PLACED IN THE CELLS OF CONCRETE MASONRY UNITS (CMU BLOCK FILL), OR IN THE VOIDS OF BRICK MASONRY CONSTRUCTION. SHALL CONTAIN PEA GRAVEL (3/8-INCH DIAMETER STONE) IN LIEU OF COARSE AGGREGATE. THE CONCRETE MIX SHALL CONTAIN A HIGH-RANGE WATER REDUCER (SUPERPLASTICIZER). SLUMP OF THE CONCRETE SHALL BE A MINIMUM OF 6-INCHES AND A MAXIMUM OF 9-INCHES.

ALL EXTERIOR CONCRETE AND CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED (6% +/- 1%). USE OF ADITIVES SHALL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. USE OF ADITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE PERMITTED. DO NOT USE HIGH-RANGE WATER REDUCING ADMIXTURES IN AIR-ENTRAINED CONCRETE. CONFORM TO ASTM C260.

ADDITION OF WATER TO THE CONCRETE AT THE JOB SITE FOR THE PURPOSE OF INCREASING THE SLUMP OR FOR RETEMPERING THE CONCRETE WHICH HAS BEGUN TO SET IS STRICTLY PROHIBITED. SEE THE PROJECT SPECIFICATIONS FOR REQUIREMENTS OF WATER ADDITION TO CONCRETE AT THE JOBSITE.

CONCRETE FOR SLABS-ON-GRADE SHALL BE PLACED IN A SEQUENCE AND MANNER THAT IS CONSISTENT WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE. LOCATE CONSTRUCTION AND CONTROL JOINTS IN SUCH A WAY TO MINIMIZE THE EFFECTS OF SHRINKAGE OF THE CONCRETE SLAB SECTIONS. SUBMIT TO THE ARCHITECT/ENGINEER THE SEQUENCE AND METHOD OF CASTING CONCRETE SLABS-ON-GRADE PRIOR TO PLACING THESE ELEMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ANCHOR BOLTS, CLIPS, INSERTS, CONNECTION PLATES, SLEEVES, SLOTS AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DRAWINGS, AND IN COOPERATION WITH OTHER TRADES PRIOR TO PLACING CONCRETE.

REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60 (60,000 PSI). WELDED WIRE FABRIC (WVF) SHALL CONFORM TO ASTM A-185. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI'S MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES, (ACI-315). DETAILS OF REINFORCEMENT SHALL CONFORM TO ACI 318, ACI 315, AND CRSI STANDARDS.

ALL REINFORCING STEEL (INCLUDING WELDED WIRE FABRIC) SHALL BE SECURELY TIED AND ANCHORED IN PLACE TO PREVENT DISLOCATION DURING THE PLACING OPERATION.

REINFORCING STEEL SHALL BE CLEAN OF MUD, DEBRIS, LOOSE RUST, CEMENT, GROUT, OR ANY OTHER MATERIAL WHICH MAY INHIBIT THE BOND BETWEEN THE STEEL AND CONCRETE.

DRY PACK SHALL CONSIST OF SIKA GROUT 212 OR APPROVED SUBSTITUTE. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

CONCRETE PROTECTION FOR REINFORCEMENT

PROVIDE THE MINIMUM CLEARANCES (COVER) FOR REINFORCEMENT AS FOLLOWS: FOOTINGS AND OTHER CONCRETE POURED AGAINST EARTH - 3" FORMED CONCRETE EXPOSED TO EARTH - 2" FORMED CONCRETE NOT EXPOSED TO WEATHER OR EARTH - 1 1/2" SLABS ON GROUND, UNLESS OTHERWISE NOTED - 1 1/2" FROM TOP OF SLAB

THE AGGREGATE LAYER SHALL BE PLACED OVER FIRM NATURAL SUBGRADE OR ON COMPACTED AND CONTROLLED FILL. FILL UNDER SLABS SHALL BE IN ACCORDANCE WITH GEOTECH REPORT. USE AIR-ENTRAINED AT ALL EXTERIOR SLABS. POUR SLABS IN ALTERNATE PANELS WITH A MAXIMUM OF 600 SF AND PROVIDE CONTROL AND CONSTRUCTION JOINTS AT 15'-0" MAXIMUM OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING.

PROVIDE 2'-6" x 2'-6" CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. ALL LAPS SHALL BE A MINIMUM OF 48-BAR DIAMETERS. PROVIDE DOWELS BETWEEN ALL FOOTINGS, WALLS AND PIERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

MASONRY PIERS AND CHIMNEYS, FOOTINGS SHALL HAVE 6" PROJECTIONS X 12" DEPTH. WHERE DRAWINGS INDICATE A GREATER FOOTING SIZE, THE GREATER SHALL BE USED.

FOUNDATION

ALL FOUNDATIONS SHALL BE FOUNDED ON SOIL WITH ALLOWABLE BEARING CAPACITY OF 3500 PSF BASED ON HILLIS-CARNES ENGINEERING ASSOCIATES, INC. GEOTECHNICAL ENGINEERING STUDY, DATED OCTOBER 6, 2025, PROJECT NO. SAL250199A.

ALL CONCRETE FOR FOOTINGS SHALL BE CAST ON THE SAME DAY THAT THE EXCAVATIONS ARE MADE TO THE FINAL GRADE.

THE TOP OF ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 1'-6" BELOW FINISH GRADE U.N.O. THE TOP OF INTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 0'-5" BELOW FINISH FLOOR.

THE GEOTECH. ENGINEER SHALL VERIFY THE BEARING CAPACITY OF 2000 PSF OF THE BEARING SOILS IN THE FOOTING EXCAVATION PRIOR TO CASTING ANY FOOTINGS.

PLACE FOOTINGS ON FIRM, DRY, NON-FROZEN SUBGRADE. REMOVE SOFT SOILS ENCOUNTERED DURING EXCAVATION, BACKFILL EXCAVATIONS AND AREAS REQUIRING STRUCTURAL FILL PER GEOTECH. REPORT. ALL BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8-INCHES IN LOOSE THICKNESS. PROPER EQUIPMENT SHALL BE SELECTED AND USED FOR COMPACTION ACCORDING TO THE TYPE A BACKFILL MATERIAL USED. COMPACTION RATIO SHALL BE 95% MINIMUM.

SOILS, FOOTINGS, FOUNDATION WALLS AND SLABS SHALL NOT BE PLACED ON OR IN MARINE CLAY, PEAT OR OTHER ORGANIC MATERIALS.

WHERE REQUIRED, STEP FOOTINGS IN A RATIO OF 2 HORIZONTAL TO 1 VERTICAL, WITH ENGINEER APPROVAL.

FOOTING EXCAVATION SHALL BE INSPECTED BY THE BUILDING OFFICIAL PRIOR TO POURING CONCRETE.

REFER TO GEOTECH. REPORT FOR THE SITE PREPARATION REQUIREMENTS.

STEEL

ALL STRUCTURAL STEEL I BEAMS SHALL CONFORM TO ASTM A992 GRADE 50 (50 KSI).

ALL OTHER STRUCTURAL STEEL, INCLUDING PLATES AND MISCELLANEOUS SHAPES SHALL CONFORM TO ASTM A36 (36 KSI).

STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B, UNLESS OTHERWISE NOTED IN THE PROJECT SPECIFICATIONS.

STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, UNLESS OTHERWISE NOTED IN THE PROJECT SPECIFICATIONS.

BOLTS FOR CONNECTING STRUCTURAL STEEL SHAPES SHALL BE ASTM A325-N, 3/4 -1/4 INCH DIAMETER, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE PROJECT SPECIFICATIONS.

ANCHOR BOLTS SHALL CONFORM TO ASTM A307.

FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

PROVIDE WELDED CONNECTIONS TYPICALLY UNLESS OTHERWISE NOTED.

WELDING ELECTRODES SHALL BE E70 SERIES.

WELDS SHALL BE MADE ONLY BY WELDERS WHO HAVE BEEN PREQUALIFIED BY TESTS OF THE AMERICAN WELDING SOCIETY, PRESCRIBED IN THE STRUCTURAL WELDING CODE," AWS D11 (LATEST EDITION).

ANY CONNECTION NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR. SEE THE TYPICAL BEAM CONNECTION DETAILS ON THE DRAWINGS.

CONNECTIONS SHALL BE AISC STANDARD.

PROVIDE BASE PLATE FOR ALL STRUCTURAL STEEL BEAMS BEARING ON CONCRETE OR MASONRY. GROUT FOR SETTING BEARING SURFACES SHALL BE NON-SHRINK, NON-STAINING, EQUAL TO "SIKAGROUT 112" BY SIKA CORPORATION.

ALL STEEL SUPPORT COLUMNS SHALL BEAR DIRECTLY ON MASONRY OR CONCRETE FOUNDATION SYSTEM.

BRICK AND CONCRETE MASONRY

MATERIALS

HOLLOW CMU: NORMAL WEIGHT: ASTM C-90-08, GRADE N, Fm= 1900 PSI FACE BRICK: ASTM C-216, SEVERE WEATHER BRICK, TYPE FBS, Fm=2500 PSI STONE VENEER: OWNER APPROVED HIGHEST GRADE LOOSE STONE

SOLID CMU: NORMAL WEIGHT: ASTM C90-08, GRADE N SINGLE WYTHE ABOVE GRADE: ASTM C270, PROJECTION SPECIFICATION MORTAR SHALL CONSIST OF TYPE 1 PORTLAND CEMENT, TYPE S HYDRATED LIME AND APPROVED AGGREGATE, WITH 1800psi MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 2-INCH CUBES AT 29-DAYS.

VENEER: ASTM C270 PROJECTION SPECIFICATION MORTARS SHALL CONSIST OF TYPE 1 PORTLAND CEMENTS,TYPE N HYDRATED LIME & APPROVED AGGREGATE, WITH 750 PSI MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 2-INCH CUBES AT 29-DAYS.

ALL MASONRY WORK SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF BIA AND NOMA SPECIFICATION FOR CONCRETE MASONRY CONSTRUCTION (ACI 513.1).

PROVIDE CONTINUOUS MASONRY BOND BEAM THAT SPANS ACROSS ALL EXPANSION JOINTS & WALL INTERSECTIONS. PROVIDE (2) #5 BENT BARS WITH 3-FOOT LEGS AT EVERY CORNER OR WALL INTERSECTION.

CONTINUOUS TIE OR BOND BEAMS SHALL BE REINFORCED WITH NOT LESS THAN 2 #5 CONTINUOUS BARS. LINTELS SHALL BE THE SIZES SHOWN AND REINFORCED AS INDICATED ON THE DRAWINGS.

REINFORCED MASONRY WALLS SHALL HAVE ALL HOLLOW CELLS FILLED WITH CONCRETE. CONCRETE MAY BE PLACED IN MAXIMUM VERTICAL LIFTS NOT TO EXCEED 4- FEET. ROUGHEN ALL SURFACES OF CONCRETE FILL WHICH ARE TO RECEIVE ADDITIONAL LIFTS ABOVE.

SOLID MASONRY WALL TO HAVE "DUR-O-WALL" (OR APPROVED EQUAL) TRUSS TIES AT 16" O.C. VERTICALLY ABOVE GRADE AND 8" O.C. VERTICALLY BELOW GRADE.

BRICK VENEER WALLS TO HAVE NON-CORROSIVE METAL TIES AT 16" O.C. VERTICALLY AND HORIZONTALLY AND COMPLY WITH ASTM A82 WITH A153, CLASS B-2 COATING. MINIMUM WIRE DIAMETER SHALL BE 0.1875 INCHES. PROVIDE WEAP HOLES AT 24" O.C. AT BASE FLASHING.

PROVIDE MINIMUM 2 COURSES 8" x 16" SOLID BEARING AT BEAM AND HEADER BEARING POINTS IN CMU WALLS.

LINTEL FOR MASONRY WALLS: PROVIDE 1 ANGLE FOR EACH 4" OF WALL THICKNESS AS FOLLOWS: OPENINGS TO 3'9": 3 1/2" x 3" x 1/4", 3 1/2" HORIZ. 3'-10" TO 5'-0": 4" x 3 1/2" x 5/16", 3 1/2" HORIZ. 5'-1" TO 6'-6": 5" x 3 1/2" x 5/16", 3 1/2" HORIZ. 6'-7" TO 8'-0": 6" x 3 1/2" x 3/8", 3 1/2" HORIZ. GREATER THAN 8'-0": SEE PLANS.

GROUT ALL CMU CELLS SOLID BELOW GRADE

STEEL JOISTS

STEEL JOISTS SHALL CONFORM AND BE INSTALLED ACCORDING TO THE REQUIREMENTS OF THE STEEL JOISTS INSTITUTE'S "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, K-SERIES."

STEEL JOISTS SHALL BE FURNISHED BY A STEEL JOIST INSTITUTE MEMBER.

UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR THE PROJECT SPECIFICATIONS, ROOF JOIST BRIDGING SHALL CONSIST OF 2x-TWO" ANGLES (L-1X1X1/8") WELDED TO JOIST CHORDS AT INTERSECTIONS. PROVIDE HORIZONTAL BRIDGING WHERE REQUIRED FOR MECHANICAL DUCTWORK.

UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR PROJECT SPECIFICATIONS, FLOOR JOIST BRIDGING SHALL CONSIST OF HORIZONTAL TYPE, WELDED TO TOP AND BOTTOM CHORDS OF JOISTS.

ALL BRIDGING AND OTHER JOISTS BRACING MEMBERS SHALL BE INSTALLED AS SOON AS JOISTS HAVE BEEN ERECTED, AND BEFORE THE APPLICATION OF ANY METAL DECK OR CONSTRUCTION LOADS. SECURE ALL BRIDGING TO INTERSECTING WALLS, BEAMS AND OTHER MEMBERS AS REQUIRED, EVEN IF NOT SPECIFICALLY DETAILED ON THE DRAWINGS.

CHORD SPLICES ARE NOT PERMITTED ON THE BOTTOM CHORDS. SPLICES ON THE TOP CHORDS SHALL BE REINFORCED WITH 1 1/2 -INCH DIAMETER X 0'-6" LONG STEEL RODS AT EACH JOIST ANGLE.

FABRICATED WOOD TRUSSES

TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THESE SPECIFICATIONS AND WHERE ANY APPLICABLE DESIGN FEATURE IS NOT SPECIFIED HEREIN, DESIGN SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF LATEST EDITION OF NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS) AMERICAN FOREST AND PAPER ASSOCIATION (AFPA), AND DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES (ANSI/TPI 1). TRUSS PLATE INSTITUTE (TPI), AND CODES OF JURISDICTION. FABRICATE, SUPPLY AND ERECT WOOD TRUSSES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. WORK SHALL INCLUDE ALL ANCHORAGE, BLOCKING, CURBING, MISCELLANEOUS FRAMING AND BRACING.

MANUFACTURER SHALL SUBMIT 3 COPIES OF TRUSS DESIGN DRAWINGS BEARING SEAL OF PROFESSIONAL ENGINEER FOR APPROVAL PRIOR TO ERECTION AND ENGINEERING FRAMING PLANS FOR ALL FLAT CHORD TRUSSES.

LUMBER USED FOR TRUSS MEMBERS SHALL BE IDENTIFIED BY GRADE MARK OF A LUMBER INSPECTION AGENCY, AND SHALL BE AS SHOWN ON DESIGN DRAWINGS. TRUSSES SHALL BE HANDLED DURING FABRICATION, DELIVERY AND AT JOBSITE SO AS NOT TO BE SUBJECTED TO EXCESSIVE BENDING. TRUSSES SHALL BE UNLOADED ON SMOOTH GROUND TO AVOID LATERAL STRAIN. TRUSSES SHALL BE PROTECTED FROM DAMAGE THAT MIGHT RESULT FROM ON-SITE ACTIVITIES AND ENVIRONMENTAL CONDITIONS. PREVENT TOPPLING WHEN BANDING IS REMOVED.

HANDLE DURING INSTALLATION IN ACCORDANCE WITH HANDLING, INSTALLING AND BRACING WOOD TRUSSES (HIB-91), TPI, AND ANSI/TPI 1-1995. INSTALLATION SHALL BE CONSISTENT WITH GOOD WORKMANSHIP AND GOOD BUILDING PRACTICES. TRUSSES SHALL BE SET AND SECURED LEVEL AND PLUMB, AND IN CORRECT LOCATION. TRUSSES SHALL BE HELD IN CORRECT ALIGNMENT UNTIL SPECIFIED PERMANENT BRACING IS INSTALLED. CUTTING AND ALTERING OF TRUSSES IS NOT PERMITTED. CONCENTRATED LOADS (FULL BUNDLES OF DECKING) SHALL NOT BE PLACED AT TRUSSES UNTIL ALL SPECIFIED BRACING HAS BEEN INSTALLED AND DECKING IS PERMANENTLY NAILED IN PLACE. ERECTION BRACING IS ALWAYS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FURNISHING THE MATERIALS USED FOR INSTALLATION AND PERMANENT BRACING.

STRUCTURAL ENGINEER OF RECORD SHALL APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO BUILDING OFFICIAL. BUILDING OFFICIAL SHALL APPROVE SHOP DRAWING PRIOR TO INSTALLATION.

ALL ROOF TRUSSES SHALL BE ATTACHED TO PERPENDICULAR NON-LOAD BEARING WALLS WITH TRUSS CLIPS. CEILING GWB SHALL BE ATTACHED TO BLOCKING ON THE WALL AND NOT TO THE TRUSS FOR A DISTANCE OF 18" FROM THE WALL.

WOOD

ALL FRAMING SHALL BE SOUTHERN PINE M-12 GRADE SUCH AS WEYERHAEUSER FRAMER SERIES U.N.O.

PSL'S (PARALLEL STRAND LUMBER) SHALL BE 1 3/4" WIDE, OF THE DEPTH SPECIFIED ON THE PLANS, AND SHALL BE SECURED TOGETHER AS DIRECTED BY THE MANUFACTURER. THEY SHALL HAVE THE FOLLOWING PROPERTIES: Fb - 2900 PSI, Fv - 290 PSI, Fc - 650 PSI, E - 2,000,000 PSI

LVL'S (LAMINATED VENEER LUMBER) SHALL BE 1 3/4" WIDE, OF THE DEPTH SPECIFIED ON THE PLANS, AND SHALL BE SECURED TOGETHER AS DIRECTED BY THE MANUFACTURER. THEY SHALL HAVE THE FOLLOWING PROPERTIES: Fb - 2900 PSI, Fv - 285 PSI, Fc - 880 PSI, E - 2,000,000 PSI

PLYWOOD: APA EXPOSURE 1, GROUP 1 RATED SHEATHING, MIN 4 PLY, MIN. SPAN RATING OF 3/16. USE 3/4" NOM. THICKNESS FOR FLOORS, 5/8" FOR ROOFS, AND 1/2" FOR WALLS. FOR FLOORS, USE TONGUE-AND-GROOVE PLYWOOD GLUED AND SCREW-FASTENED. FOR ROOFS, USE PLYWOOD CLIPS AT ALL UNSUPPORTED BUTT JOINTS.

WOOD EXPOSED TO THE ELEMENTS, WOOD IN CONTACT WITH CONCRETE OR MASONRY, AND WOOD DESIGNATED "TREATED" SHALL BE NO. 2 GRADE SOUTHERN PINE OR BETTER & PRESSURE IMPREGNATED WITH ALKALINE COPPER QUATERNARY (ACQ) IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARD C2, WITH A MIN. RETENTION OF 0.40 LBS. PER CUBIC FOOT OF WOOD. MIN. DEPTH OF PENETRATION SHALL BE 2.5" OR 85% OF THE SAPWOOD.

NO STRUCTURAL MEMBER SHALL BE OMITTED, NOTCHED, CUT, BLOCKED OUT OR RELOCATED WITHOUT PRIOR APPROVAL BY THE DESIGNER OR THE STRUCTURAL ENGINEER. DO NOT ALTER SIZES OF MEMBERS NOTED WITHOUT APPROVAL OF BOTH.

CUTTING OF WOOD BEAMS, JOISTS AND RAFTERS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-SIXTH THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN. NOTCHES LOCATED CLOSER TO SUPPORTS THAN THREE TIMES THE DEPTH OF THE MEMBER SHALL NOT EXCEED ONE-FIFTH THE DEPTH. HOLES BORED OR CUT INTO JOISTS SHALL NOT BE CLOSER THAN TWO INCHES TO THE TOP OR BOTTOM OF THE JOIST AND THE DIAMETER OF THE HOLE SHALL NOT EXCEED ONE-THIRD OF THE DEPTH OF THE JOIST.

WHERE SHALL NOT BE LESS THAN ONE LINE OF BRIDGING IN EVERY EIGHT FEET OF SPAN IN FLOOR, ATTIC AND ROOF FRAMING. THE BRIDGING SHALL CONSIST OF NOT LESS THAN ONE BY THREE INCH LUMBER DOUBLE NAILED AT EACH END OR EQUIVALENT METAL BRIDGING OF EQUAL RIGIDITY. MIDSPAN BRIDGING IS NOT REQUIRED FOR FLOOR, ATTIC OR ROOF FRAMING WHERE JOIST DEPTH DOES NOT EXCEED TWELVE INCHES NOMINAL. BLOCK ALL STUD WALLS AT MAXIMUM INTERVALS OF EIGHT FEET WITH A MINIMUM OF TWO-BY TWO INCH MATERIAL WITH TIGHT JOISTS. PROVIDE TWO-BY FIRE STOPS AT MID-POINT OF STUD WALLS. PROVIDE DOUBLE TRIMMERS UNDER ALL HEADERS 4 X 4 OR LARGER. SUCH MEMBERS SHALL BE SPIKED TOGETHER.

FRAMING NOTES

NAIL IN ACCORDANCE WITH RECOMMENDED WOOD FASTENING SCHEDULE IN APPLICABLE BUILDING CODE (LATEST EDITION/HIGH WIND REGION). PROVIDE BLOCKING, BRIDGING AND BRACING PER SAME CODE. AT A MIN., PROVIDE BRIDGING AT EACH END OF THE JOIST, AND ONE ROW OF SOLID BRIDGING BELOW ALL INTERIOR BEARING PARTITIONS.

FASTENERS: JOIST HANGERS, HURRICANE ANCHORS, POST BASES AND OTHER FRAMING ANCHORS ARE TO BE AS MANUFACTURED BY SIMPSON STONE-TIE, U.S.P., OR EQUAL, AND ARE TO BE USED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS. ALL FASTENERS TO BE 16 GA. MIN. UNLESS NOTED OTHERWISE. PROVIDE GALV. FINISH UNLESS NOTED OTHERWISE. JOIST HANGERS SHALL BE MIN. 16 GA. WITH SIZE AND PROFILE TO SUIT APPLICATION (U.N.O.). PROVIDE JOIST HANGERS FOR ALL FLUSH FRAMED JOISTS. ALL FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE 2-MAX COATED, U.N.O.

THE NUMBER OF WALL STUDS AT BEARING POINTS OF 2X MEMBER BEAMS SHALL EXCEED THE NUMBER OF MEMBERS IN THE BEAM BY ONE. THE CENTERLINE OF THE BEAM SHALL BE THE CENTERLINE OF THE SUPPORTING WALL STUDS. (UNLESS NOTED OTHERWISE ON PLAN) ALL MICRO-LAM BEAMS SHALL HAVE 3 STUDS (MIN. & EXCEED WIDTH OF BEAM). CONTINUE THESE STUDS TO THE FOUNDATION WITH INTERMEDIATE SUPPORTS THROUGH FLOOR, BETWEEN LOWER WALL TOP PLATE & UPPER WALL BOTTOM PLATE.

ALL EXTERIOR POSTS TO BE TREATED 6X6 (U.N.O.). NOTCH TOP OF POST FOR BEAM BRG. (3" MAX.) AND THRU BOLT BEAM TO POST WITH (2) 1/2" DIA. GALV. BOLTS. ALTERNATE: PROVIDE COLUMN CAP CONNECTION WITH #6 SERIES BY SIMPSON STONE-TIE OR EQ. PROVIDE SOLID BRIDGING BELOW ALL COLUMNS, TO TRANSFER LOAD DIRECTLY TO FRAMING/FOUNDATION BELOW.

PROVIDE DOUBLE JOIST UNDER ALL PARTITIONS PARALLEL TO JOIST SPAN AND AROUND ALL FLOOR AND ROOF OPENINGS. SPACE & BLOCK IF PARTITIONS ABOVE IS A PLUMBING WALL. PROVIDE SOLID BLOCKING AT 12" O.C. BETWEEN JOISTS UNDER PARTITIONS ABOVE) WHICH ARE PARALLEL TO THE JOISTS BUT NOT DIRECTLY OVER THE JOISTS. BLOCKING SHALL BE NOT LESS THAN 2" IN THICKNESS & SHALL MATCH THE DEPTH OF THE JOISTS. TRUSSES MAY USE TRUSS BLOCKING.

ALL MULTI-PLY BEAMS SHALL BE NAILED WITH 3 ROWS OF 10d NAILS AT 8" O.C. STAGGERED OR BOLTED WITH 1/2" DIA. BOLTS AT 16" O.C. STAGGERED (U.N.O.).

BALLOON FRAME ALL END WALLS WITH CATHEDRAL CEILING (U.N.O.).

FASTEN CABLE-END WALL STUDS TO CEILING DIAPHRAM BY FASTENING NAILER TO EACH STUD AND BY FASTENING CEILING TO NAILER WITH 8d NAILS AT 6" O.C.

WHERE DECKS FASTEN TO HOUSE FRAMING, PROVIDE CONTINUOUS TREATED LEDGER THRU-BOLTED TO FLOOR STRUCTURE WITH (2) 1/2" DIA. BOLTS AT 16" O.C. PROVIDE HOT-DIPPED GALV. JST. HANGER TO LEDGER.

ALL FLUSH FRAMED PSL-TO-PSL BEAM CONNECTIONS TO BE FASTENED WITH BEAM HANGERS AS DESIGNED AND PROVIDED BY PSL MANUFACTURER (U.N.O.).

ALL EXTERIOR WALLS SHALL BE STUDS AT 16" O.C. AS SPECIFIED ON PLANS WITH 1/2" APA EXPOSURE 1, GROUP 1 RATED SHEATHING. BLOCK ALL UNSUPPORTED EDGES. NAIL ALL PANEL EDGES WITH 8d NAILS AT 4" O.C. AND INTERMEDIATE STUDS WITH 8d NAILS AT 6" O.C.

SHEAR WALL HOLD-DOWNS: ALL SHEAR WALLS SHOWN ON PLANS TO HAVE HOLD-DOWNS AT THE BASE AT EACH END OF EACH WALL SHALL BE AS FOLLOWS. * AT UPPER FLOORS USE (2) SIMPSON HDBA'S OR (1) SIMPSON FT#7 AT EACH END OF SHEAR WALL SEGMENT AND EACH EXTERIOR CORNER OF BUILDING. * AT CONCRETE FOUNDATIONS USE (1) SIMPSON HD2A AT EACH END OF SHEAR WALL SEGMENT AND AT EACH EXTERIOR CORNER OF BUILDING. * AT PILE/GROUNDER SUPPORTED FLOOR, USE (2) SIMPSON HDBA'S OR (1) SIMPSON FT#7 AT EACH END OF SHEAR WALL SEGMENT AND AT EACH EXTERIOR CORNER OF BUILDING. * PROVIDE 3 STUDS MIN. AT EACH HOLD-DOWN. * PROVIDE TRIPLE JOISTS BELOW SHEAR WALLS THAT RUN PARALLEL TO FLOOR FRAMING.

ALL INTERIOR SHEAR WALLS SHOWN ON THE PLANS SHALL HAVE STRUCTURAL SHEATHING THAT EXTENDS TO THE UNDERSIDE OF THE FLOOR SHEATHING ABOVE. WHERE JOISTS RUN PARALLEL TO THE SHEAR WALL, PROVIDE A DBL-JOIST ABOVE THE SHEAR WALL, WHERE JOISTS RUN PERPENDICULAR, PROVIDE 2X BRIDGING ABOVE SHEAR WALL AND "TOOTH" PLYWOOD AROUND JOISTS. NAIL THROUGH FLOOR SHEATHING ABOVE INTO WALL WITH (2) 10d NAILS AT 4" O.C.

LINTEL SCHEDULE UNLESS OTHERWISE NOTED ON PLAN:

ROUGH OPENING WALLS UP TO 4'-0" UP TO 6'-0" OVER 6'-0"

LINTEL- 2x4 (2)-2x8 w/1 LAYER OF 1/2" PLYWOOD (2)-2x10 w/1 LAYER OF 1/2" PLYWOOD (3)-2x10 w/2 LAYER OF 1/2" PLYWOOD (2)-2x12 w/1 LAYER OF 1/2" PLYWOOD

LAP SHEATHING 2'-0" ABOVE & BELOW THE WALL/FLOOR INTERFACE.

NAIL ALL SHEATHING PANEL EDGES WITH 8d NAILS AT 4" O.C. AND INTERMEDIATE STUDS WITH 8d NAILS AT 6" O.C. BLOCK ALL UNSUPPORTED EDGES.

MISCELLANEOUS ITEMS

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT AND FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS.

THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

THE CONTRACTOR IS TO VERIFY ALL OPENING SIZES AND LOCATIONS WITH THE REQUIREMENTS OF OTHER TRADES PRIOR TO FABRICATION AND ERECTION.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH ADJACENT WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, FURNISHING, ERECTING AND REMOVING ANY TEMPORARY SHORING AND BRACING DURING CONSTRUCTION.

THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AT THE PROPER TIME WHEN ALL ITEMS ARE READY FOR OBSERVATION. SUFFICIENT NOTICE SHALL BE GIVEN BY THE CONTRACTOR TO ALLOW FOR SCHEDULING OF OBSERVATIONS.

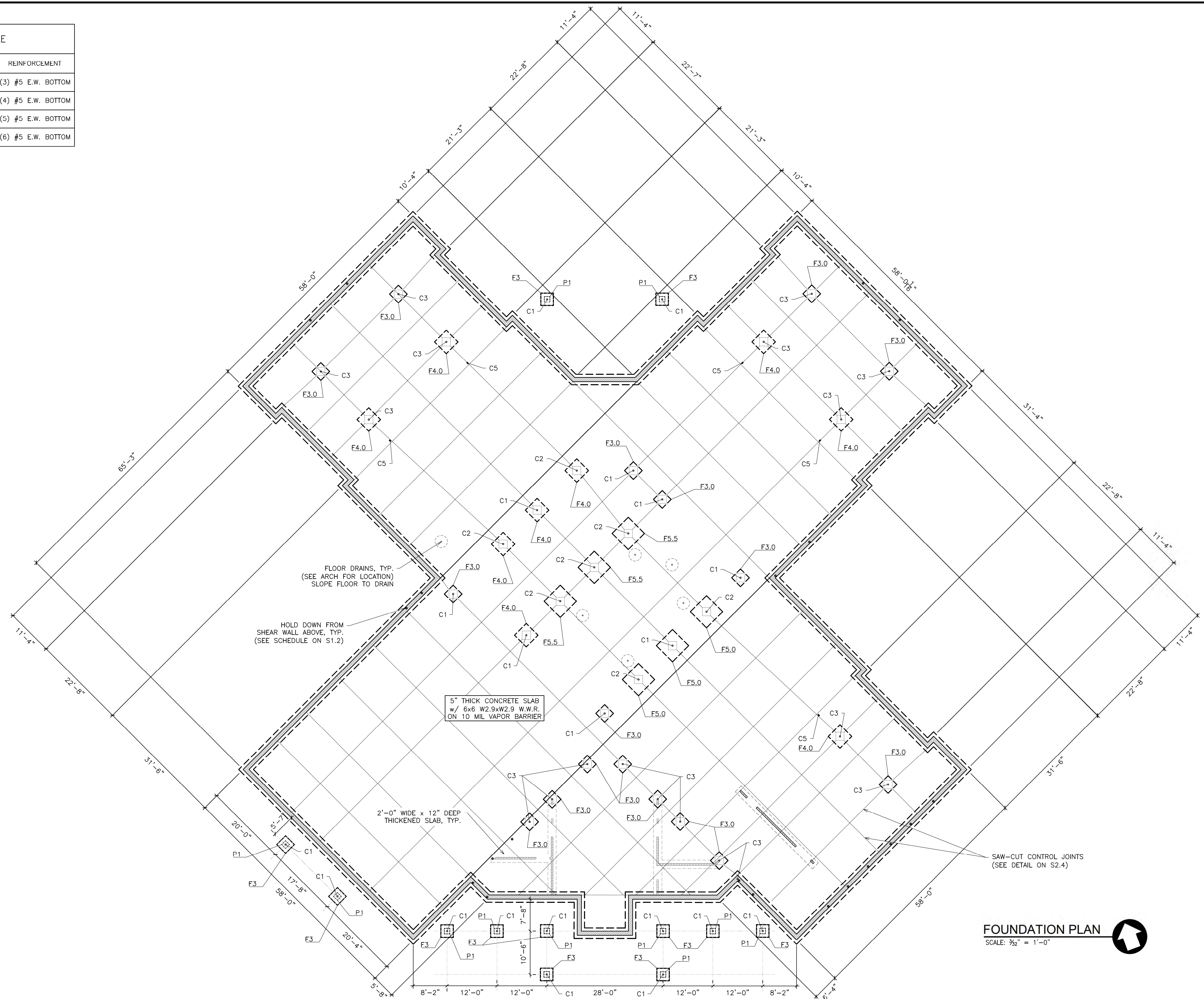
SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED BY THE CONTRACTOR OR SUBCONTRACTOR DURING ALL TIMES OF WORK ON THIS PROJECT. THE ARCHITECT OR ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK FOR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

ALL SPECIALLY BOLTS, INCLUDING EXPANSION TYPE AND EPOXY TYPE ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

THE CONTRACTOR SHALL PROTECT FROM DAMAGES EXISTING BUILDING(S), OWNER EQUIPMENT, ROADS, WALKS AND UTILITIES. THE CONTRACTOR SHALL MAINTAIN THESE DURING THE COURSE OF THE WORK, AND SHALL REPAIR ALL DAMAGES AT NO ADDITIONAL EXPENSE TO THE OWNER.

IN AREAS WHERE THE DRAWINGS DO NOT ADDRESS METHODOLOGY, THE CONTRACTOR SHALL BE BOUND TO PERFORM IN STRICT COMPLIANCE WITH MAN

FOOTING SCHEDULE				
CALLOUT	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F3.0	3'-0"	3'-0"	12"	(3) #5 E.W. BOTTOM
F4.0	4'-0"	4'-0"	12"	(4) #5 E.W. BOTTOM
F5.0	5'-0"	5'-0"	12"	(5) #5 E.W. BOTTOM
F5.5	5'-6"	5'-6"	12"	(6) #5 E.W. BOTTOM



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NEW CONSTRUCTION FOR:
HORIZON FARM CREDIT
DHQ
 BRIDGEVILLE, DE

FOUNDATION PLAN



SCALE	: AS NOTED
DESIGN BY	: KRC
DRAWN BY	: TFVT
CHECKED BY	: ARM
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S1.1

SHEAR WALL SCHEDULE

MARK	BLOCKED OR UN-BLOCKED	FRAMING NOTES	BOTTOM PLATE ATTACHMENT TO CONCRETE	BOTTOM PLATE ATTACHMENT TO WOOD FRAMING	DOUBLE TOP PLATE ATTACHMENT TO WOOD FRAMING
(SW1)	BLOCKED	1/2" WOOD STRUCTURAL PANEL SHEATHING EXTERIOR SIDE. ATTACH W/ 10d 2.5"x0.131 COMMON NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. FIELD. 5/8" GYPSUM BOARD ON INTERIOR ATTACHED W/ #6 x 10d 2.5"x0.131 COMMON NAILS AT 7" O.C. AT PANEL EDGES. SIMPSON HDU8-SDS2.5 HOLDDOWN EACH END	3/4" F1554 GRADE 36 ANCHOR RODS W/ 10" EMBED. @ 16" O.C. W/ SIMPSON BP2 WASHERS	(2) ROWS OF 16d COMMON NAILS @ 4" O.C.	SIMPSON LTP5 PLATES @ 6" O.C.

DRAWING NOTES:

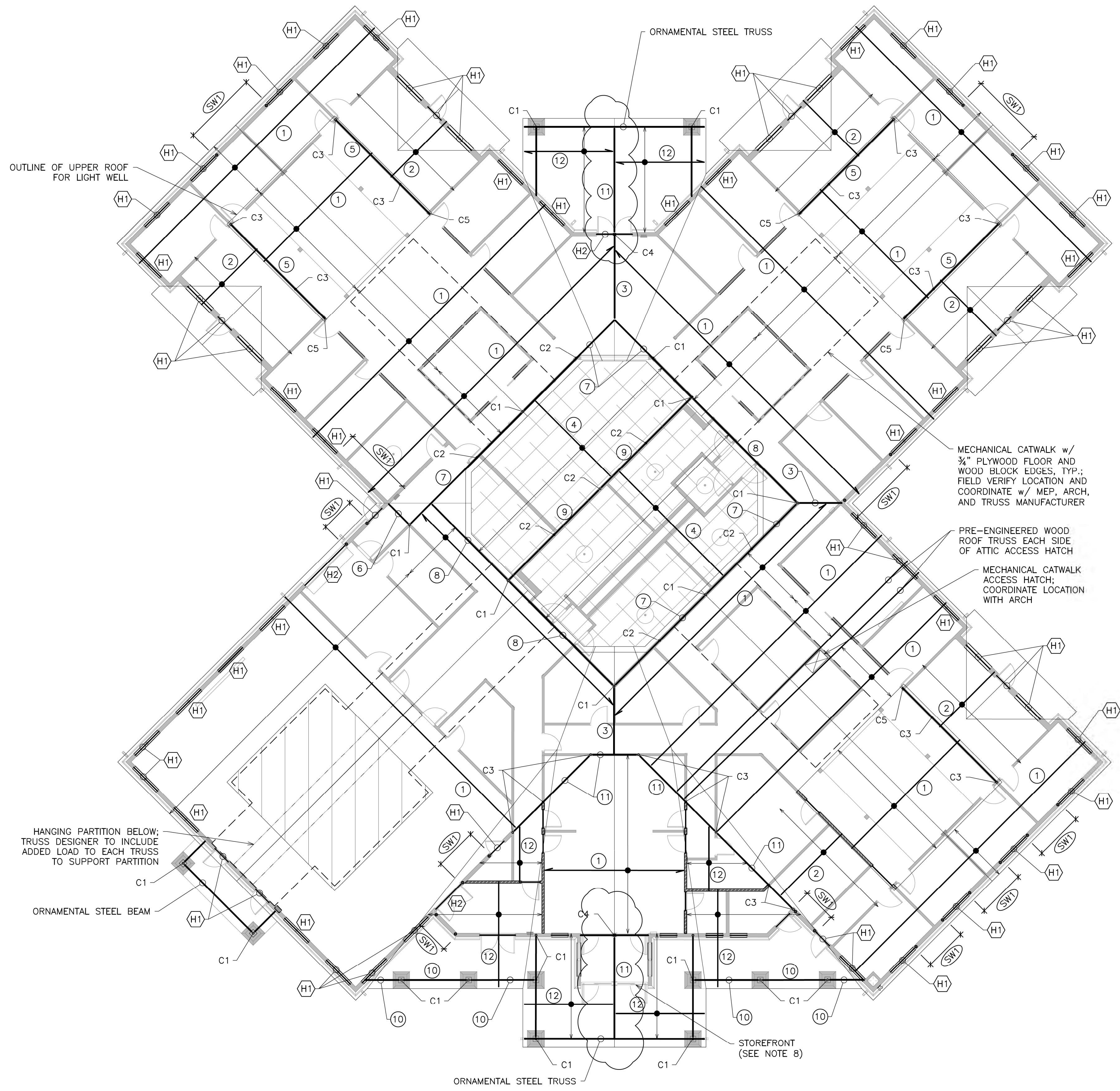
- ALL TRUSS-TO-TRUSS CONNECTIONS TO BE DESIGNED AND PROVIDED BY TRUSS MANUFACTURER. TRUSS MANUFACTURER TO SPECIFY TRUSS TO BUILDING TIE AND STRAPS.
- ALL FASTENERS & SIMPSON CONNECTORS IN CONTACT W/ P.T. LUMBER SHALL BE GALV. (SEE STRUCTURAL NOTES, SHEET S0.1)
- PRE-ENGINEERED ROOF TRUSSES SHALL BE DESIGNED TO MEET LOADS PROVIDED ON NOTES SHEET S0.1.
- PRE-ENGINEERED TRUSS MANUFACTURER TO LOCATE TRUSSES TO ACCOMMODATE ATTIC DRAFT STOPS SHOWN IN ARCHITECTURAL PLANS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ATTIC DRAFT STOPS.
- ALL FRAMING SHALL BE SOUTHERN PINE M-12 GRADE SUCH AS WEYERHAEUSER FRAMER SERIES U.N.O.
- CONTRACTOR TO INSTALL ADDITIONAL BLOCKING BEHIND & BELOW MECHANICAL SYSTEM BRACKETS & CURBING.
- STOREFRONT SHALL BE DESIGNED FOR A WIND LOAD PRESSURE OF 40 PSF. SUBMIT SEALED SHOP DRAWING FOR REVIEW AND APPROVAL.
- TRUSS HANGERS AND HOLD DOWN DESIGN WILL BE FINALIZED AFTER SHOP DRAWING SUBMISSION. CONTRACTOR SHALL INCLUDE ADJUSTMENTS IN BID PRICE.

TRUSS SHOP DRAWING NOTES:

- ROOF GIRDER TRUSS LOCATIONS SHOWN ARE APPROXIMATE BASED ON SHOP DRAWINGS SUBMITTED. SOME GIRDER TRUSSES MAY NOT BE SHOWN.
- CONTRACTOR SHALL MAKE ANY ADJUSTMENTS SO THAT COLUMNS ARE CENTERED BELOW GO TO TRUSS BEARINGS.
- ALL LOAD BEARING FRAMING SHALL BE FRAMER SERIES AS SPECIFIED.
- FOR COLUMN SIZES NOT INDICATED, THE COLUMNS AND CONNECTORS SHALL BE:
 - (2)-PLY TRUSS: (2) 2X6 COLUMN WITH SIMPSON LGT2 AT TOP AND HDU2 AT BOTTOM
 - (3)-PLY TRUSS: (3) 2X6 COLUMN WITH SIMPSON LGT3 AT TOP AND HDU4 AT BOTTOM
 - (4)-PLY TRUSS: (4) 2X6 COLUMN WITH SIMPSON LGT4 AT TOP AND HDU4 AT BOTTOM
- SINGLE TRUSS HURRICANE TIE SHALL BE SIMPSON H10A OR APPROVED SUBSTITUTE.

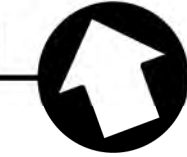
LEGEND:

- | | |
|------------------------------------------------------|------------------------------------------------------------------|
| (1) PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" O.C. | (H1) (3) 2x10 HEADER w/ (1) JACK STUD AND (1) KING STUD EACH END |
| (2) PRE-ENGINEERED WOOD ROOF JACK TRUSSES @ 24" O.C. | (H2) (3) 2x10 BOXED HEADER (SEE DETAIL 4/S2.2) |
| (3) PRE-ENGINEERED WOOD GIRDER TRUSS | C1 4" STD PIPE COLUMN |
| (4) 20K7 STEEL JOISTS @ 2'-0" O.C. | C2 4" XXS PIPE COLUMN |
| (5) (4) 1 3/4"x16" LVL BEAM | C3 3 1/2" STD PIPE COLUMN |
| (6) (4) 1 3/4"x11 1/4" LVL BEAM | C4 (4) 2x6 COLUMN |
| (7) W10x33 BEAM | C5 (4) 2x4 COLUMN |
| (8) W10x22 BEAM | PRE-ENGINEERED WOOD ROOF TRUSS OVERFRAMING AREA |
| (9) W10x45 BEAM | MECHANICAL WELL |
| (10) (3) 2x10 BEAM | INTERIOR LOAD BEARING WALL |
| (11) (3) 1 3/4"x16" LVL BEAM | (SW1) SHEARWALL (SEE SCHEDULE THIS SHEET) |
| (12) 2x10 RAFTERS @ 12" O.C. | |



ROOF FRAMING PLAN

SCALE: 3/32" = 1'-0"



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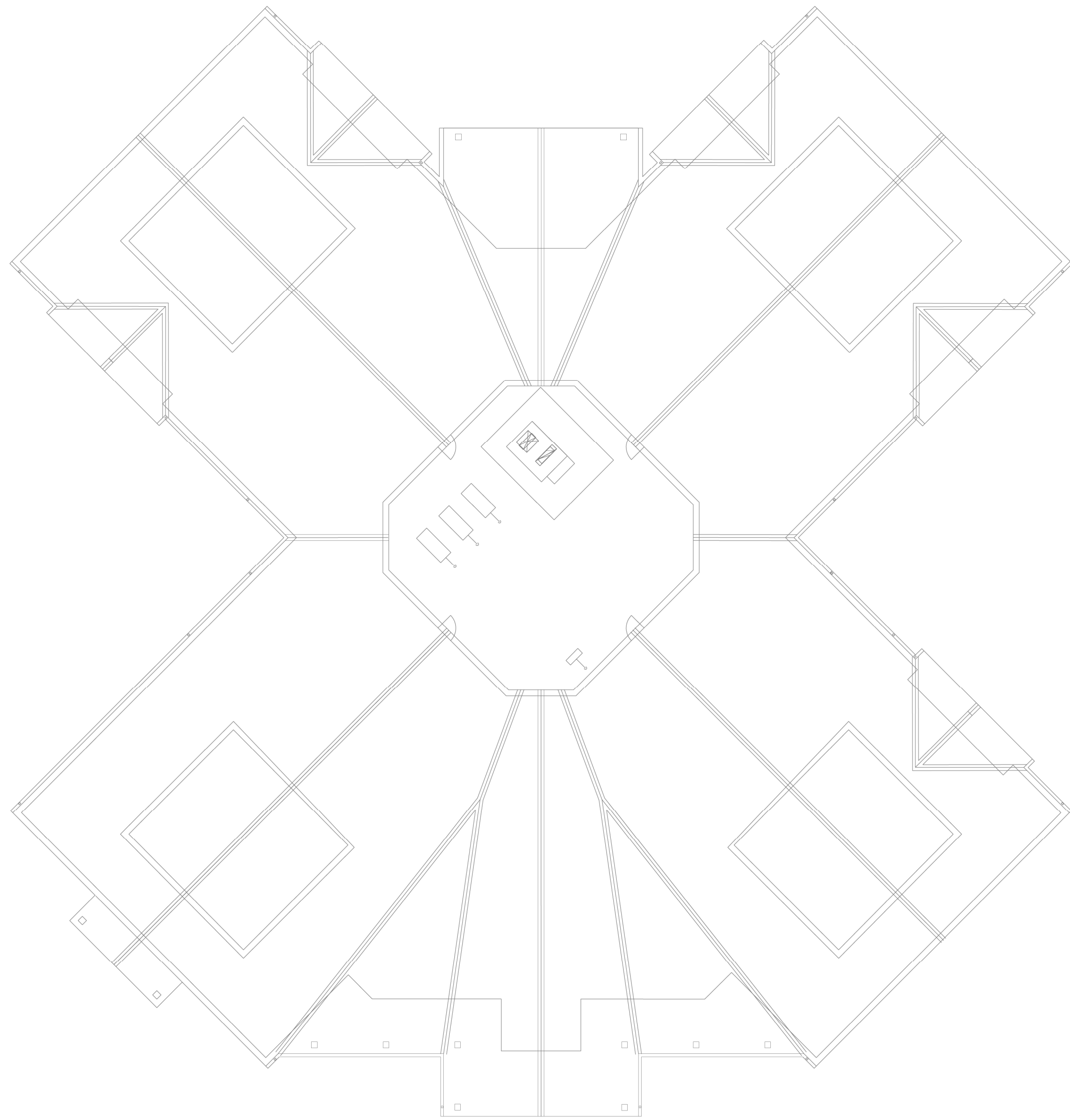
NEW CONSTRUCTION FOR:
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DHQ
 BRIDGEVILLE, DE

ROOF FRAMING
 PLAN



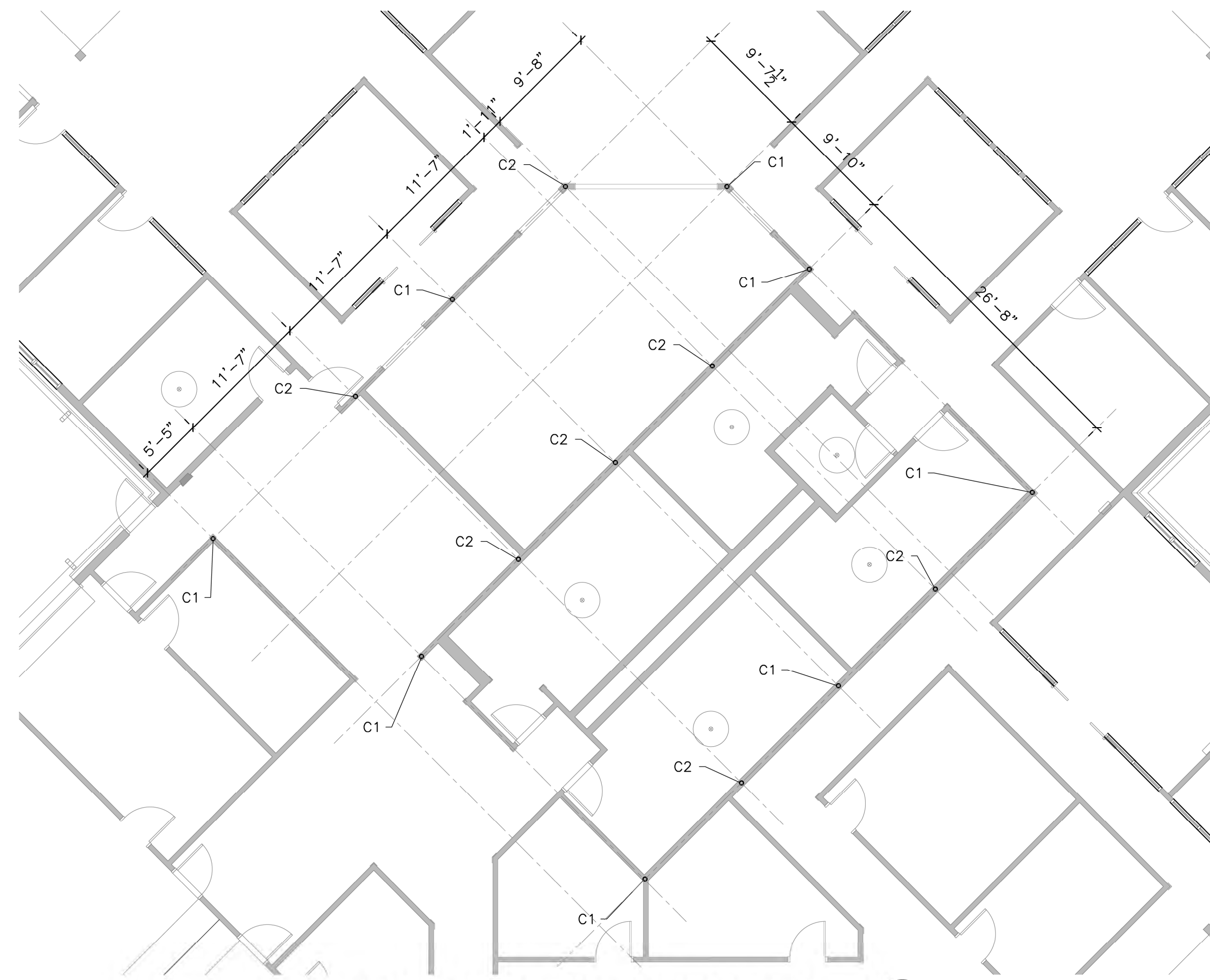
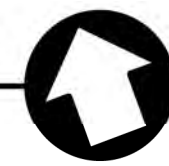
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S1.2



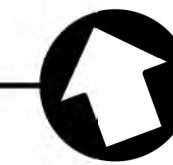
SNOW AND WIND ZONE LEGEND

SCALE: 1/8" = 1'-0"



MECHANICAL WELL COLUMN LAYOUT

SCALE: 1/8" = 1'-0"



NEW CONSTRUCTION FOR:
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WIND ZONE
 LEGEND AND
 ENLARGED PLANS



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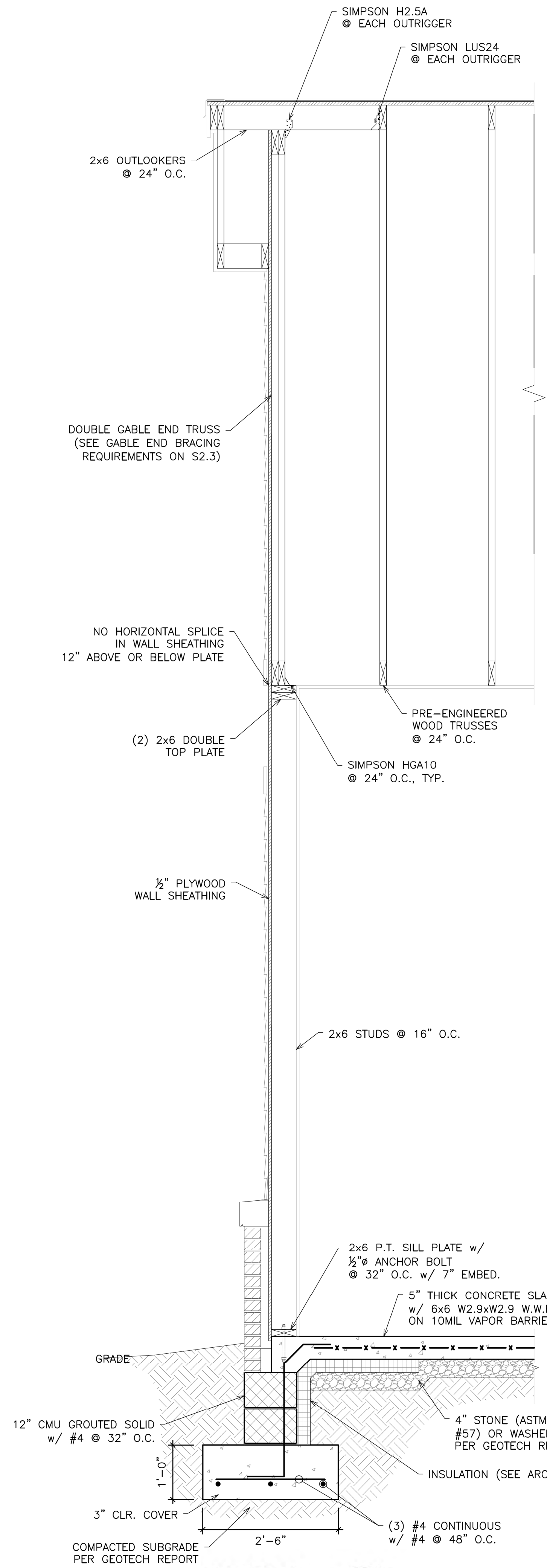
S1.3

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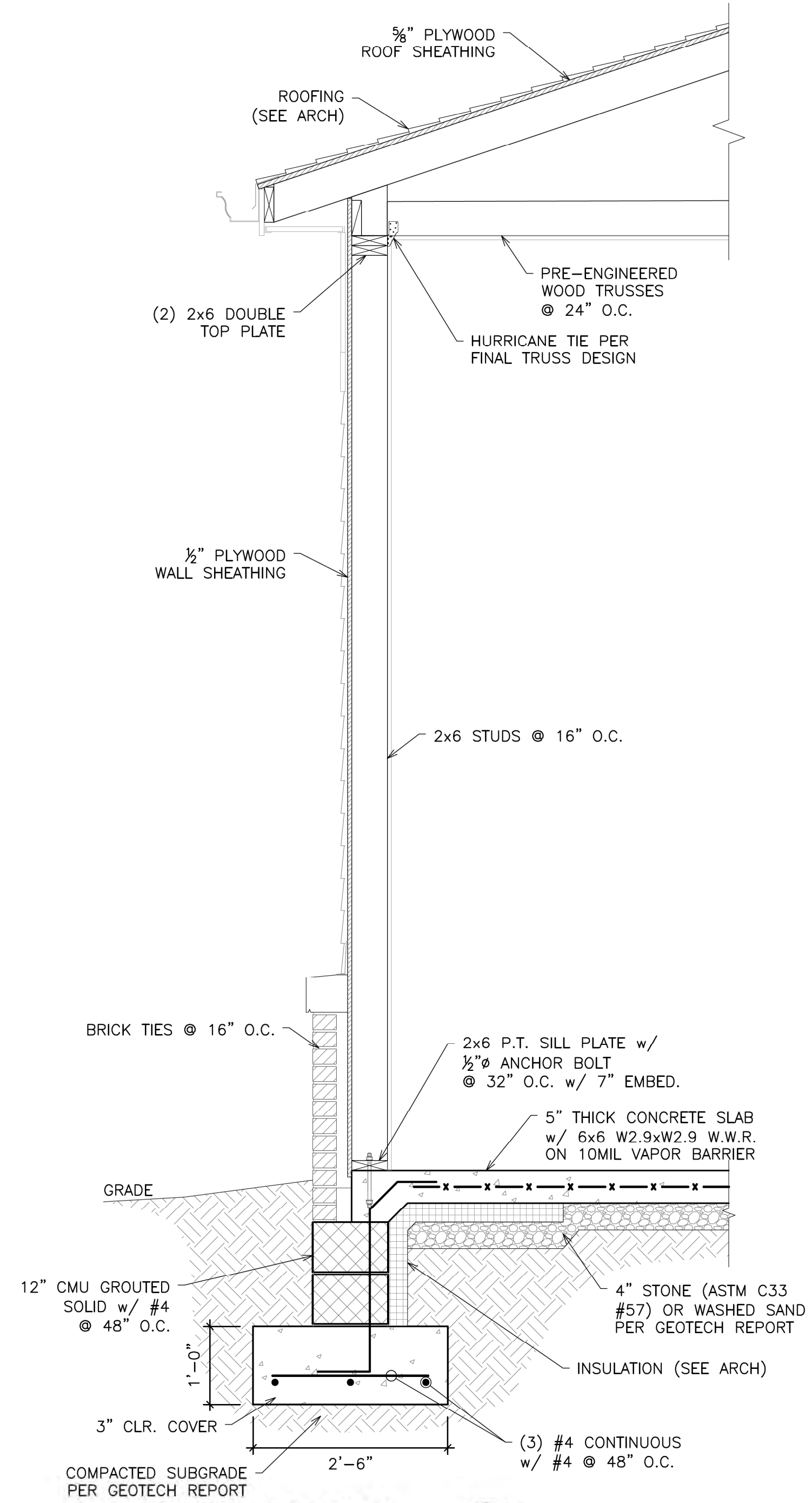
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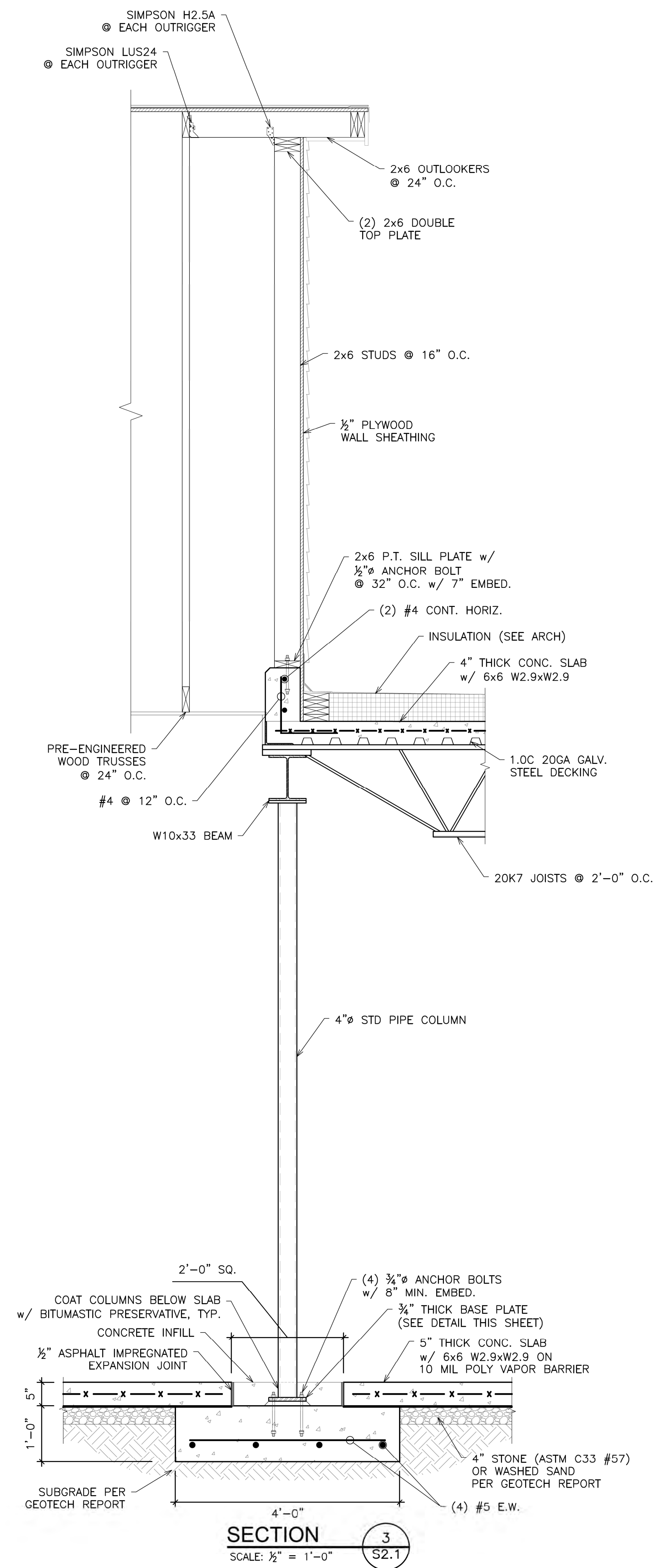
DATE
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SECTION 1
SCALE: 1/2" = 1'-0"
S2.1



SECTION 2
SCALE: 1/2" = 1'-0"
S2.1



SECTION 3
SCALE: 1/2" = 1'-0"
S2.1

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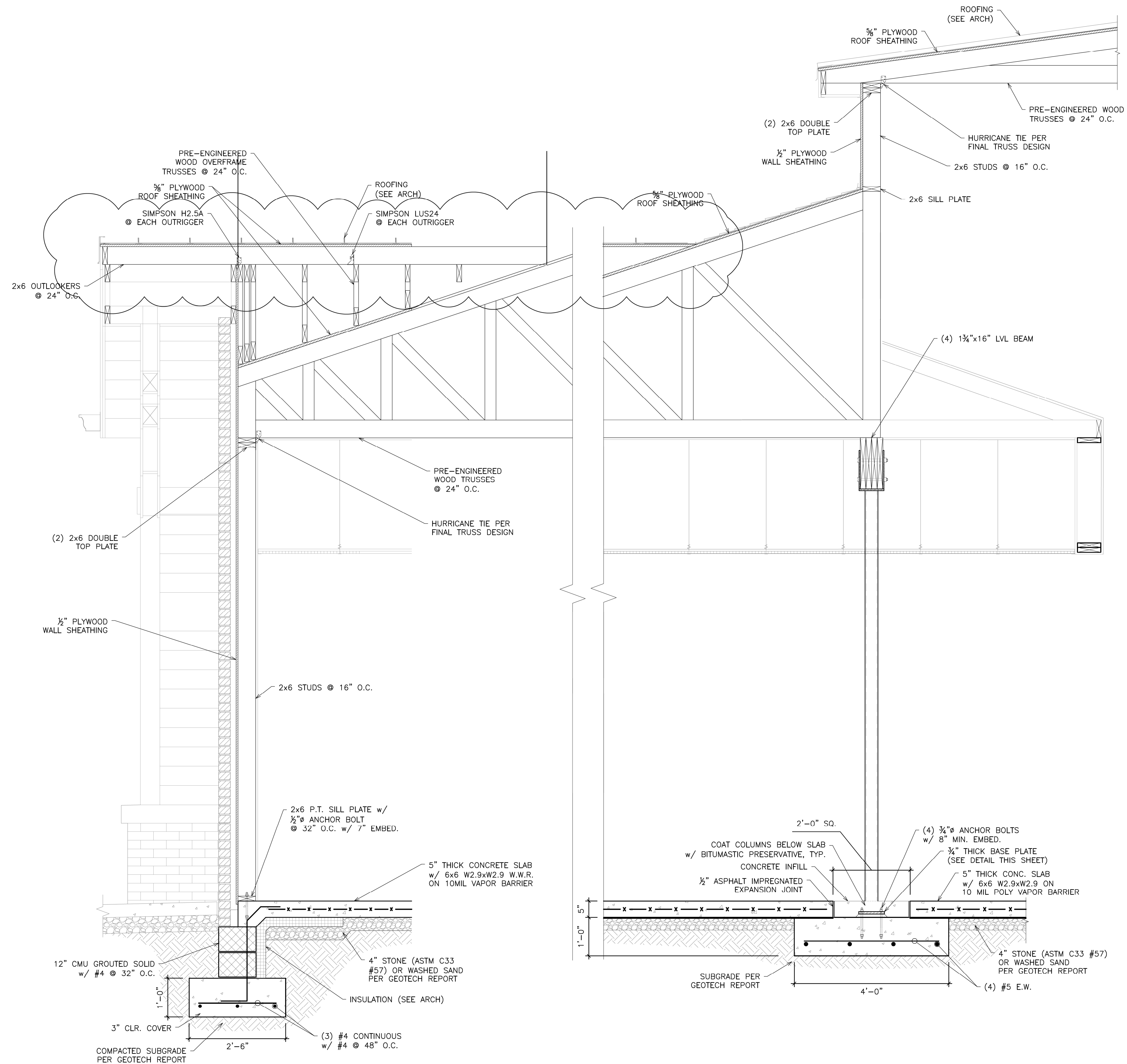
NEW CONSTRUCTION FOR:
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DHQ
BRIDGEVILLE, DE

SECTIONS AND
DETAILS



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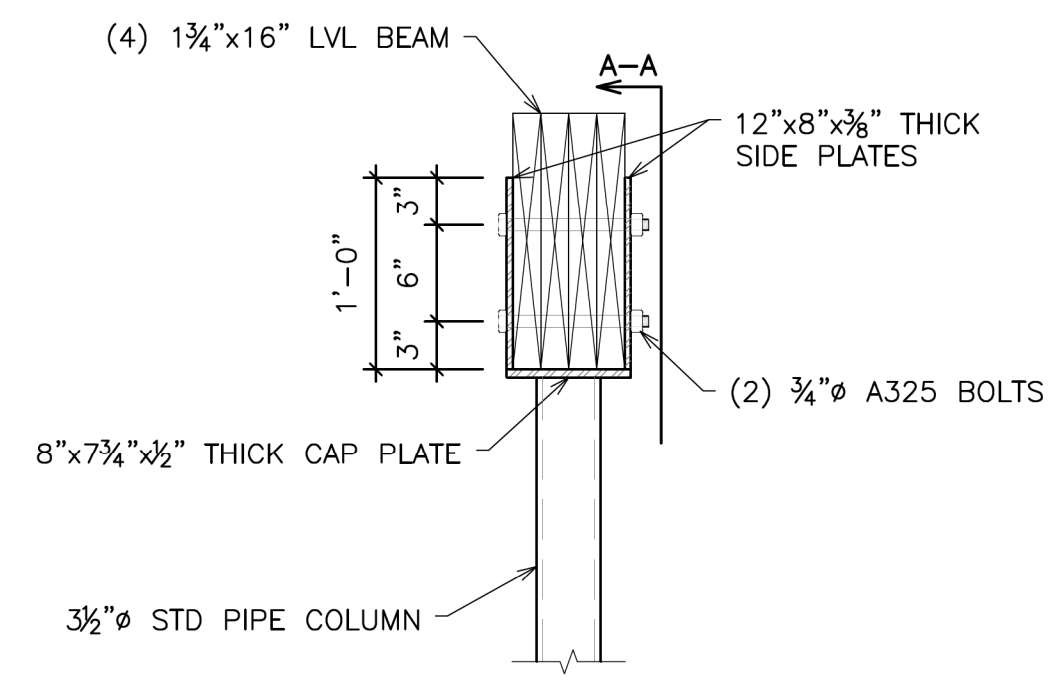
SECTIONS AND
 DETAILS

ALA REGISTERED ARCHITECT
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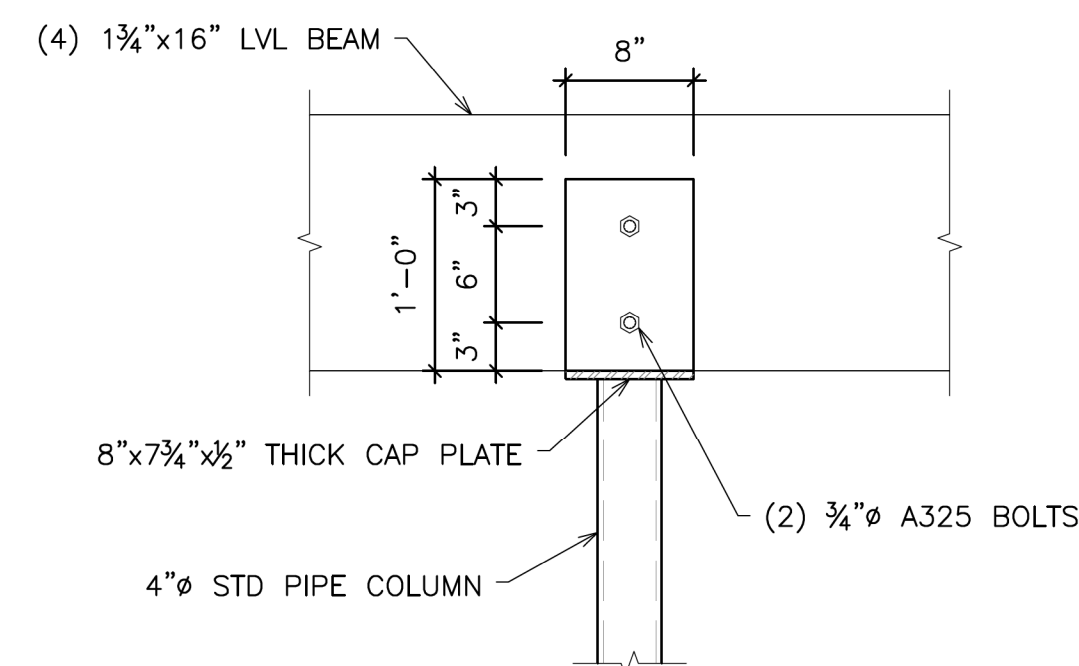
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S2.2

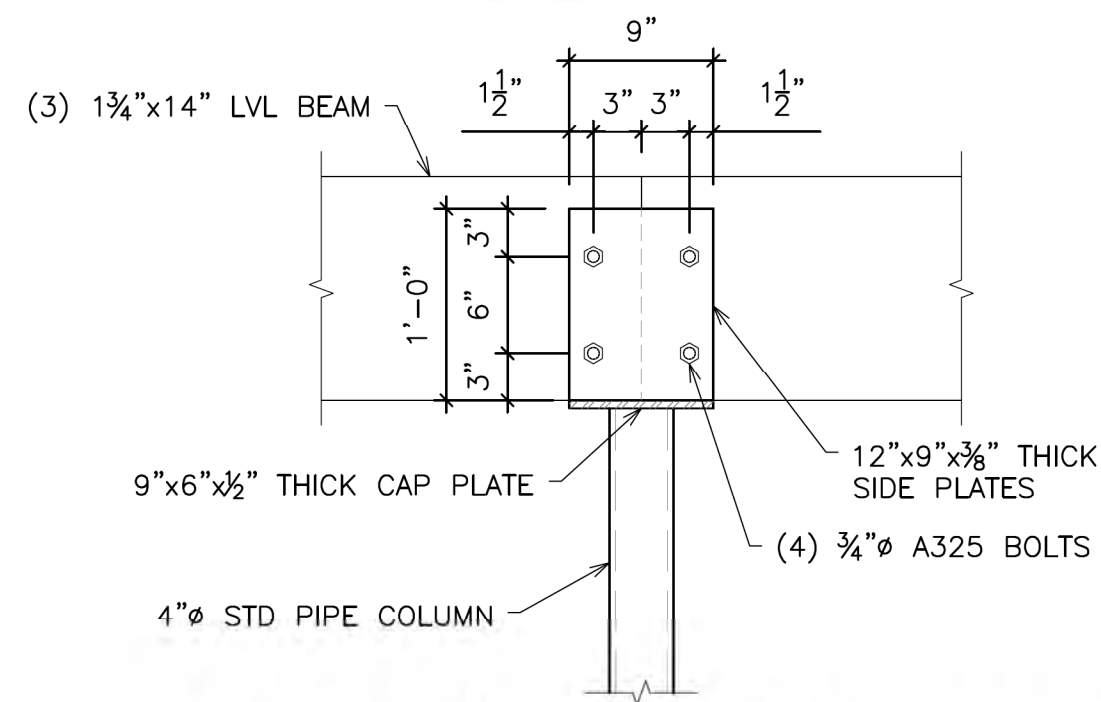
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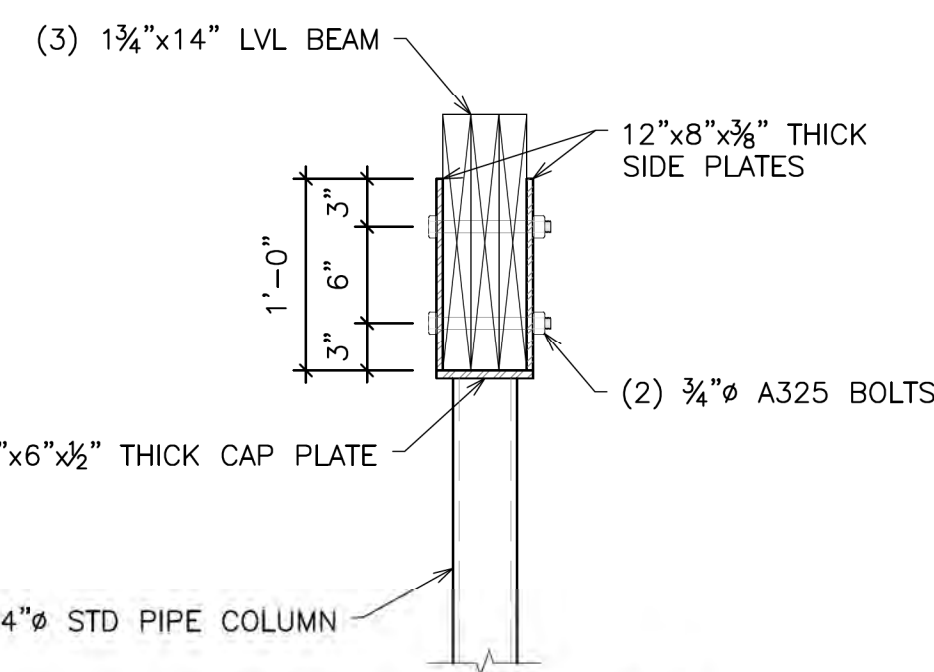
SECTION 1
SCALE: 1" = 1'-0"
S2.3



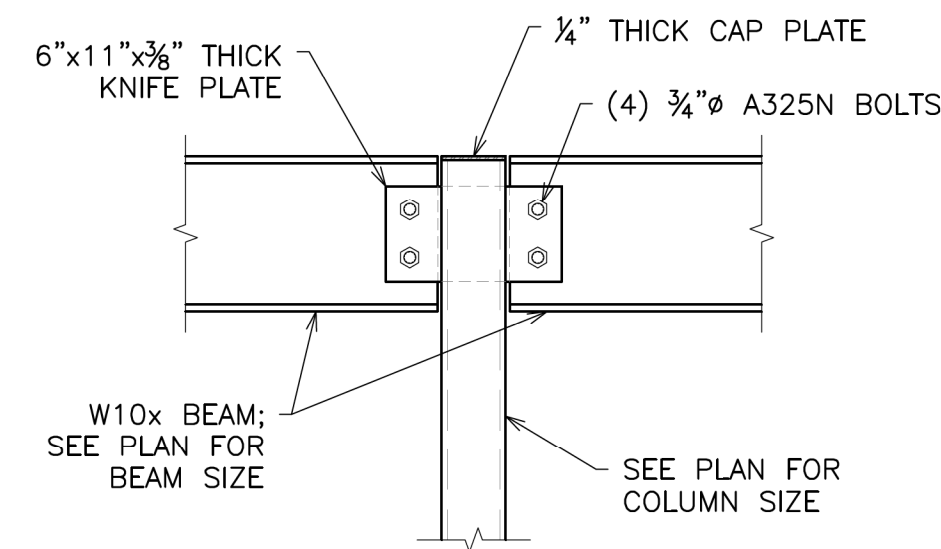
SECTION A-A
SCALE: 1" = 1'-0"
S2.3



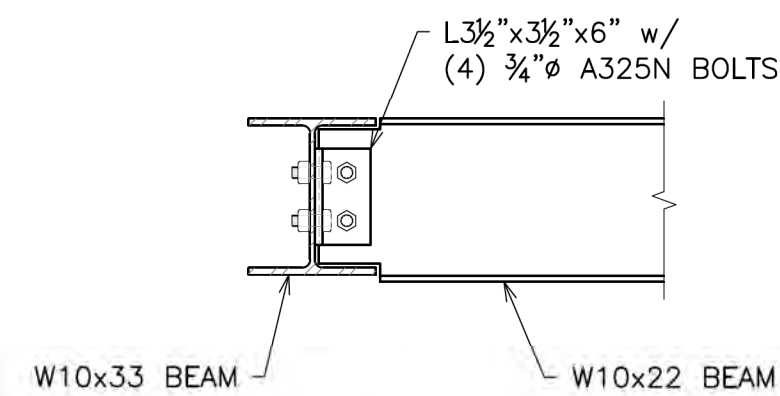
SECTION @ WOOD BEAM SPLICE
SCALE: 1" = 1'-0"
S2.3



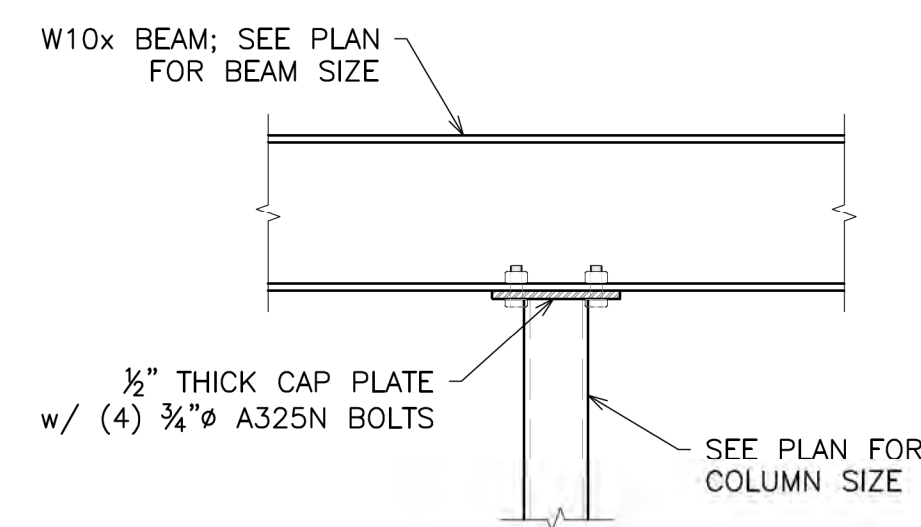
SECTION 3
SCALE: 1" = 1'-0"
S2.3



SECTION @ STEEL BEAM SPLICE
SCALE: 1" = 1'-0"
S2.3



SECTION 5
SCALE: 1" = 1'-0"
S2.3



TYP. SECTION @ CONT. STEEL BEAM
SCALE: 1" = 1'-0"
S2.3

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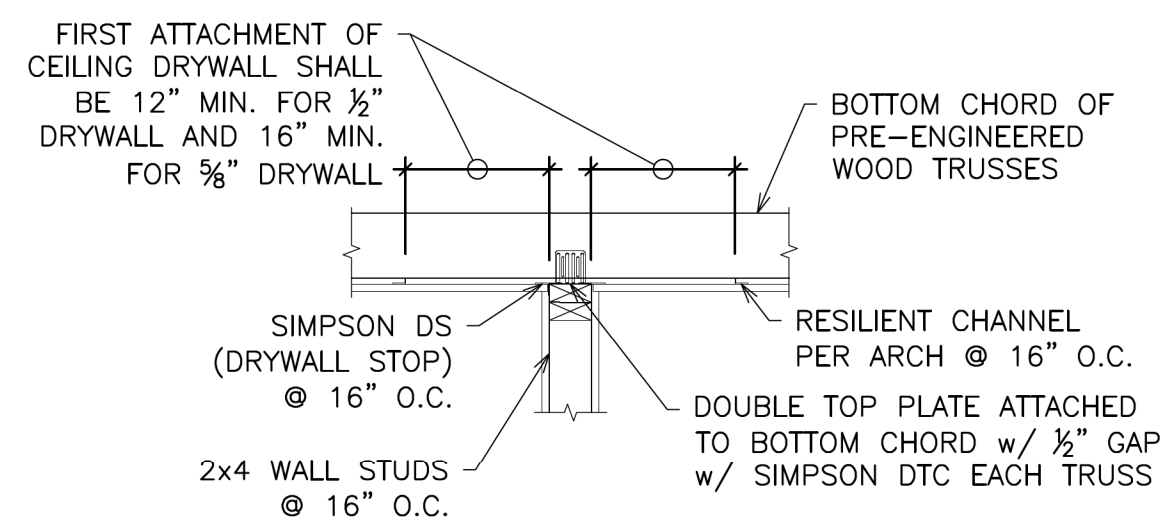
NEW CONSTRUCTION FOR:
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SECTIONS AND
DETAILS

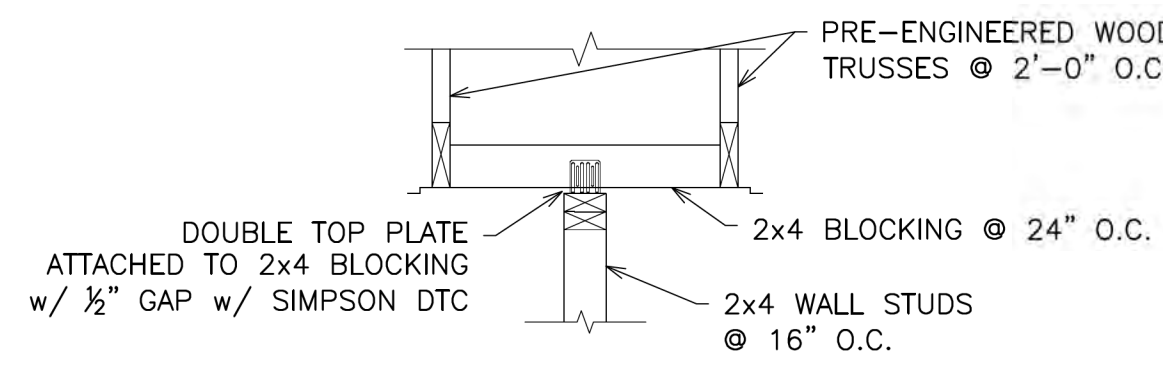


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S2.3



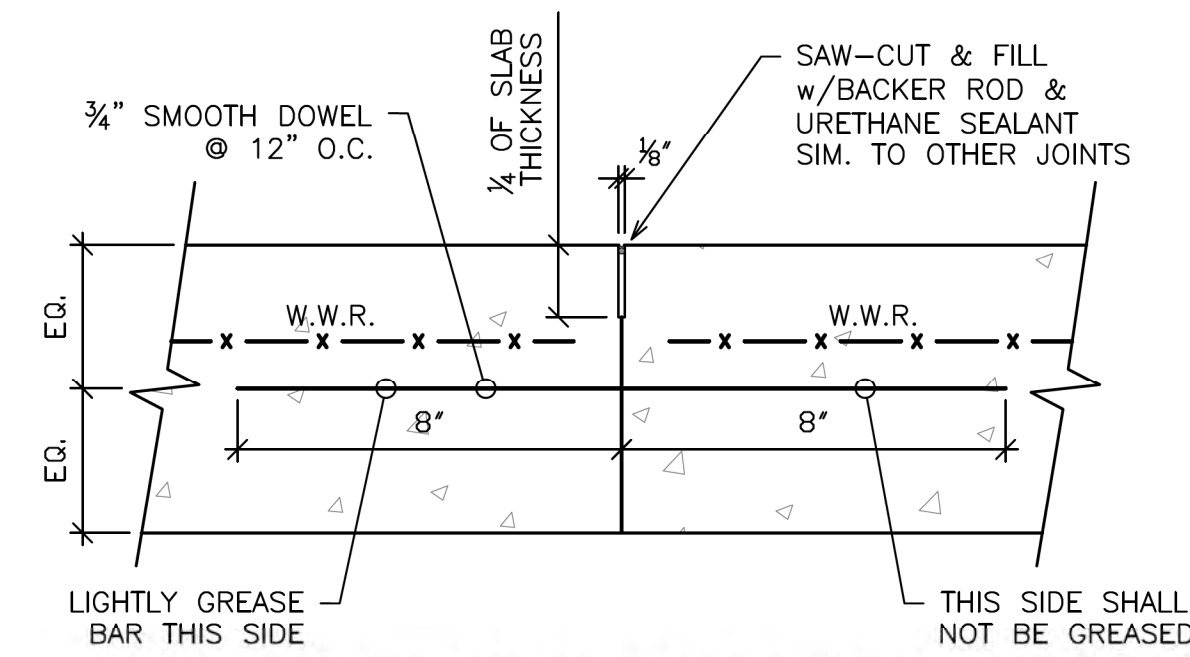
PERPENDICULAR



PARALLEL

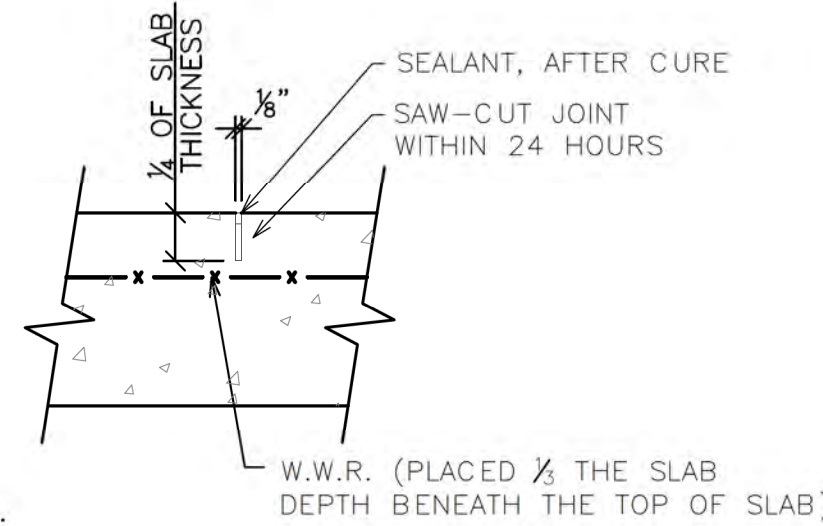
TYPICAL ROOF TRUSS CONNECTION @ INTERIOR NON-LOAD BEARING WALLS

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



CONSTRUCTION JOINT DETAIL

N.T.S.

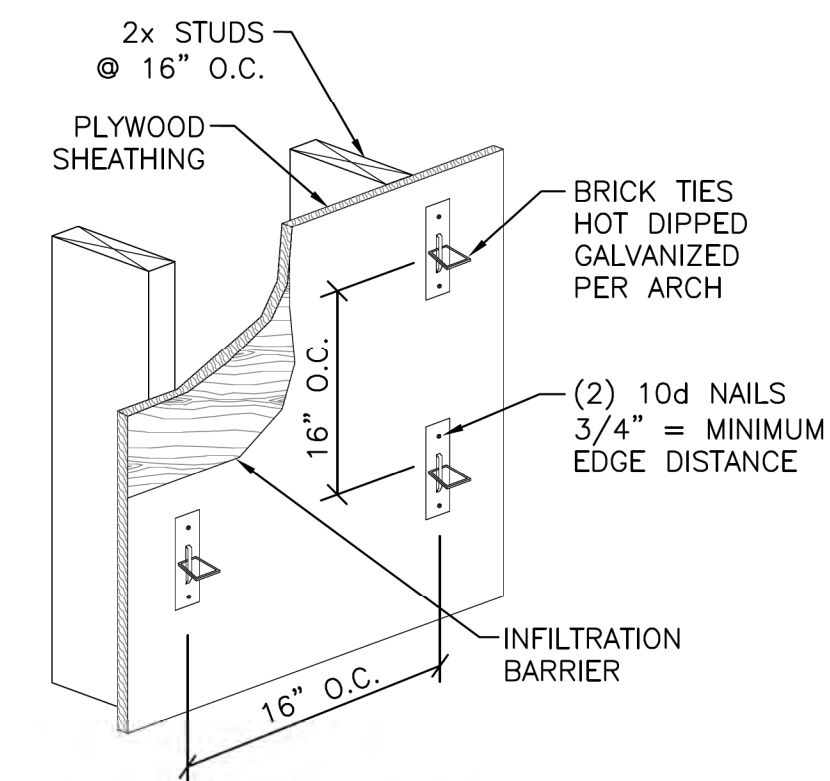


NOTE:

SAW-CUTTING SHALL BE DONE AS SOON AS POSSIBLE AFTER POURING CONCRETE. WHEN CONCRETE HAS HARDENED SUFFICIENTLY TO ALLOW CUTTING, APPLY JOINT SEALANT.

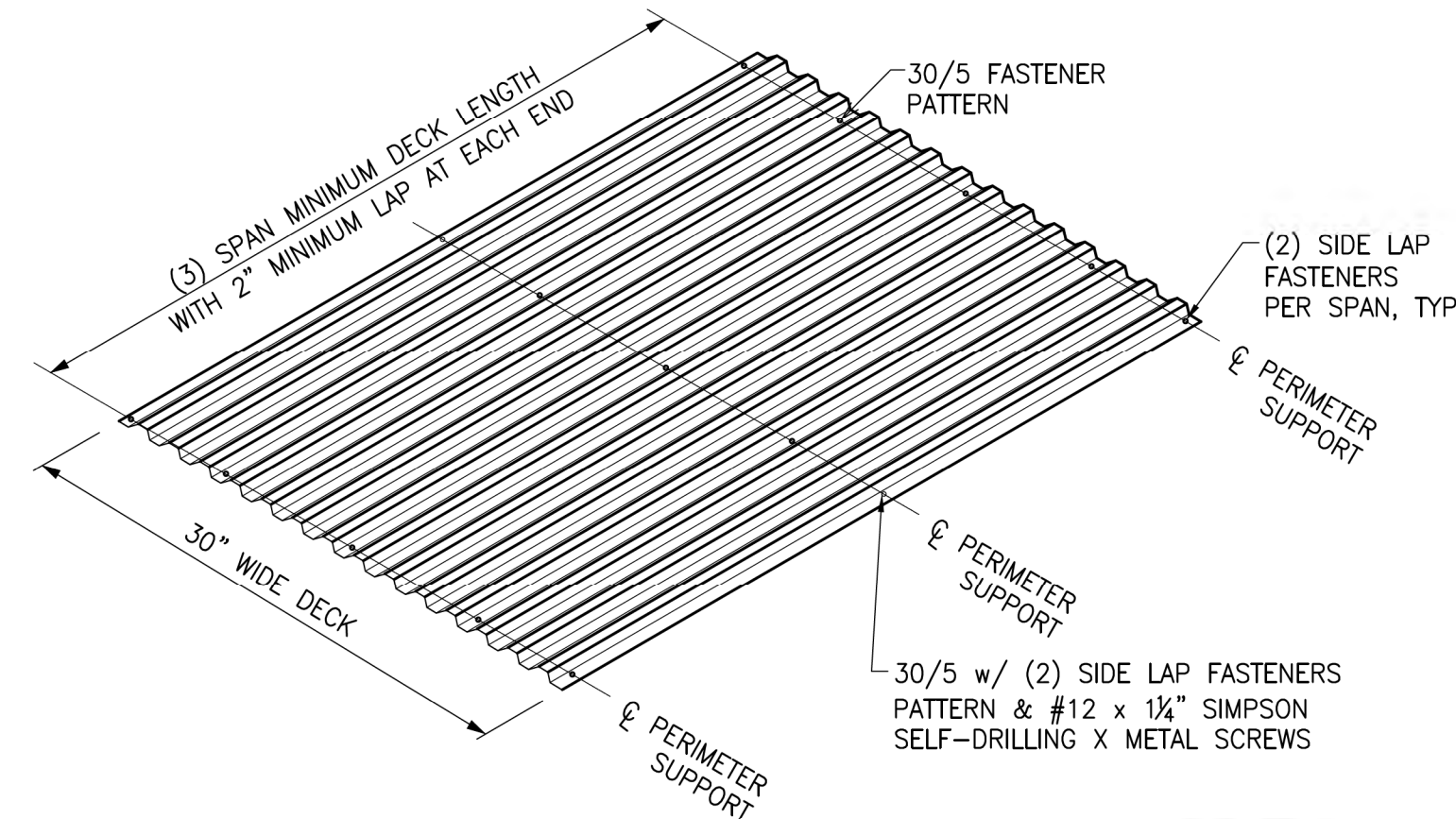
SAW-CUT CONTROL JOINT DETAIL

N.T.S.



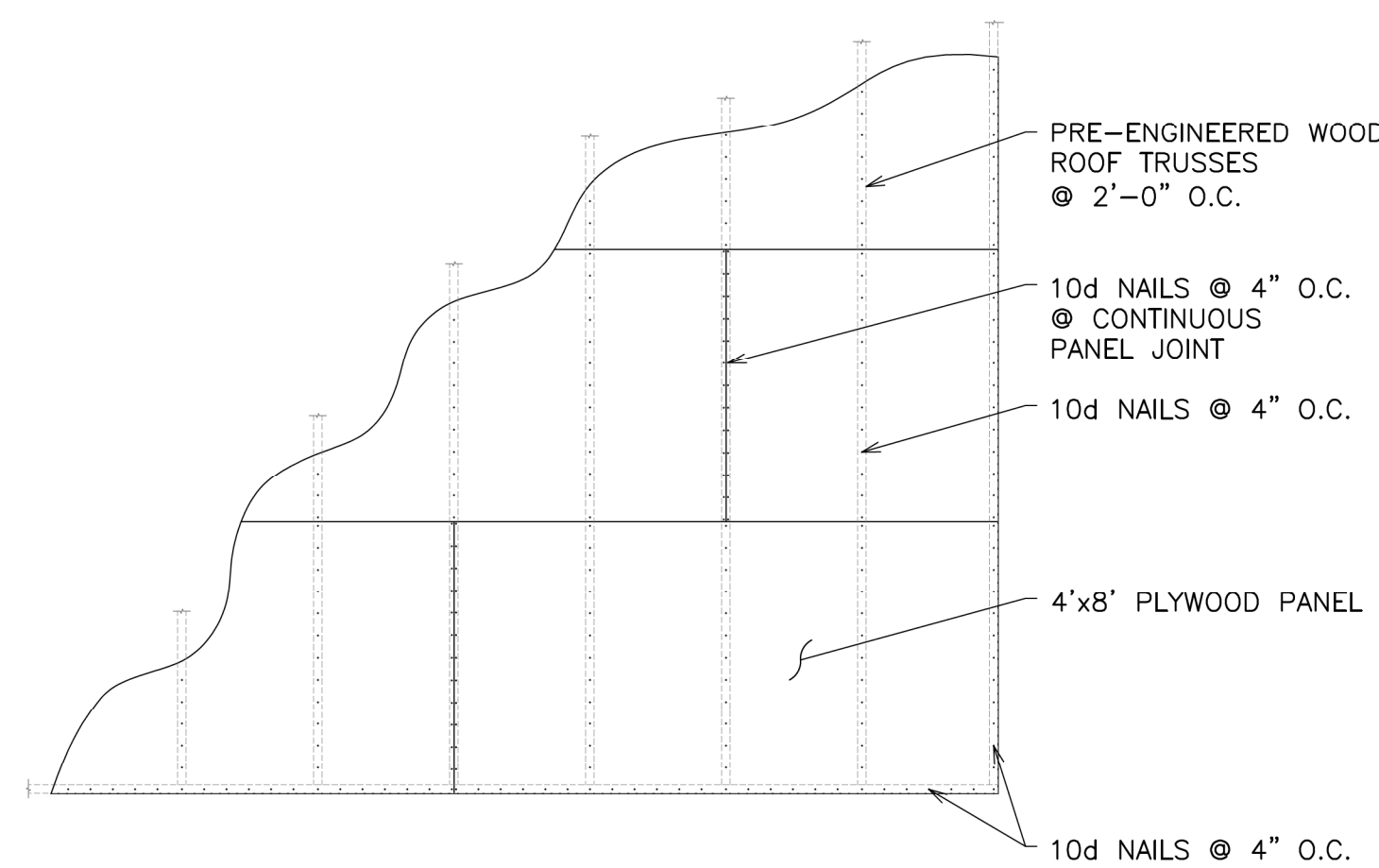
BRICK VENEER TIE DETAIL

N.T.S.



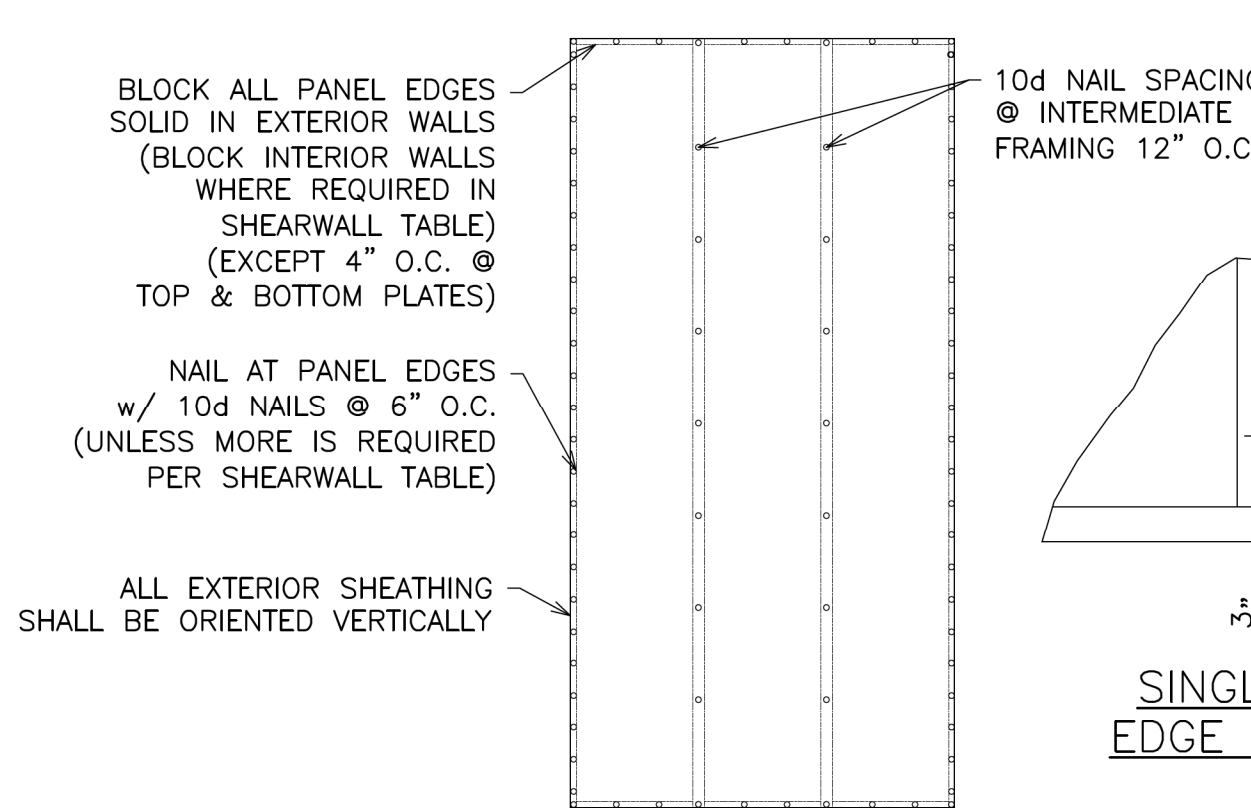
MECHANICAL WELL DECK FASTENING DETAIL

N.T.S.



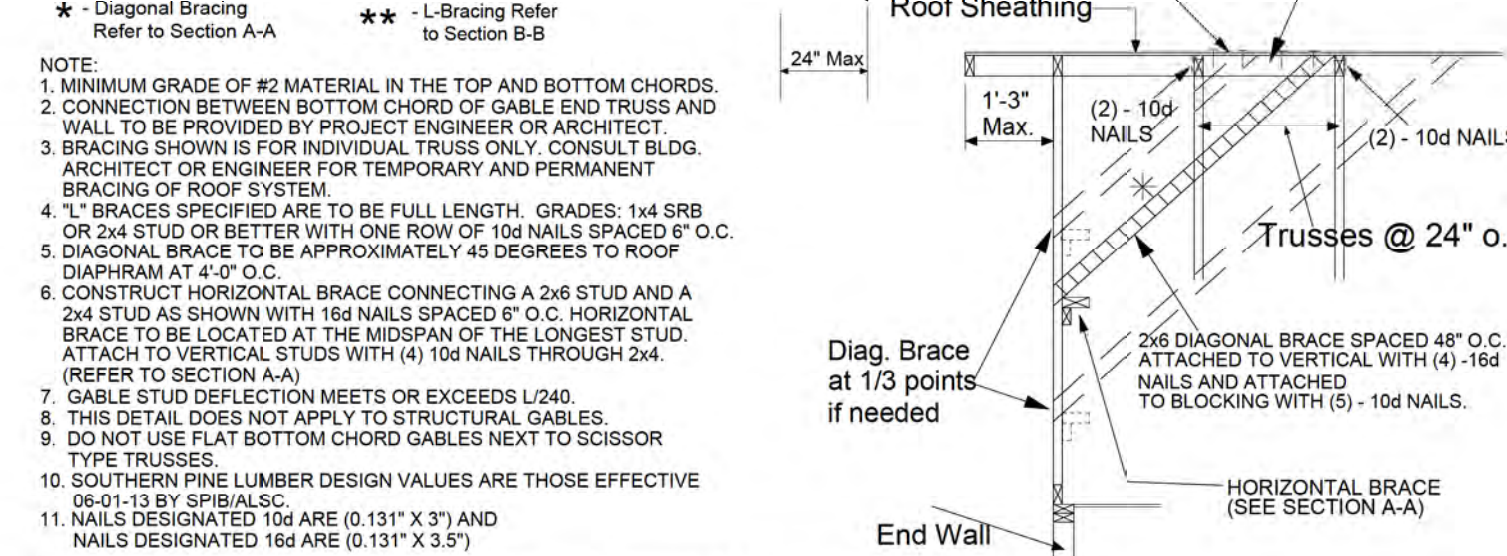
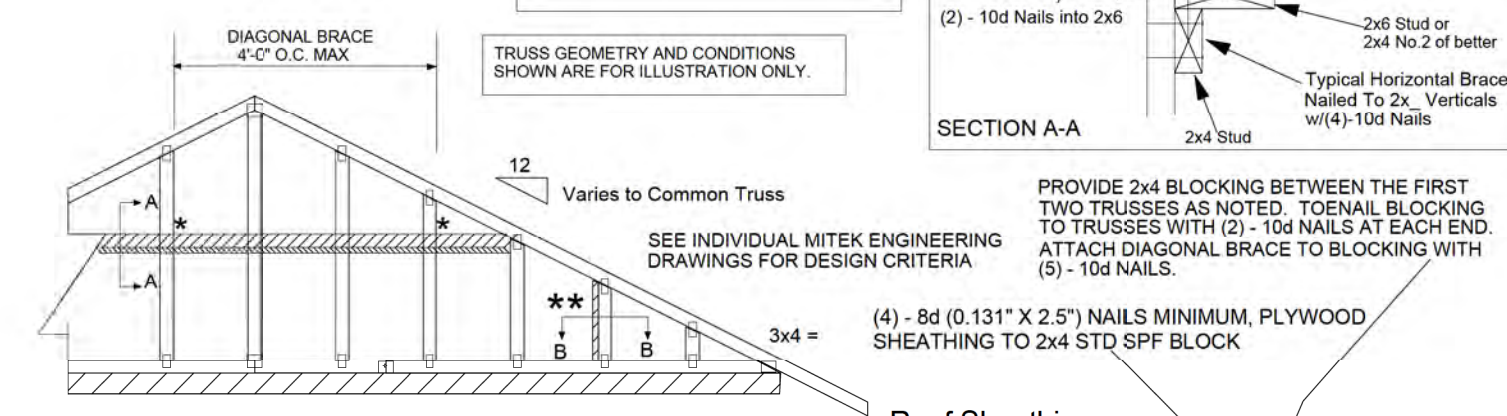
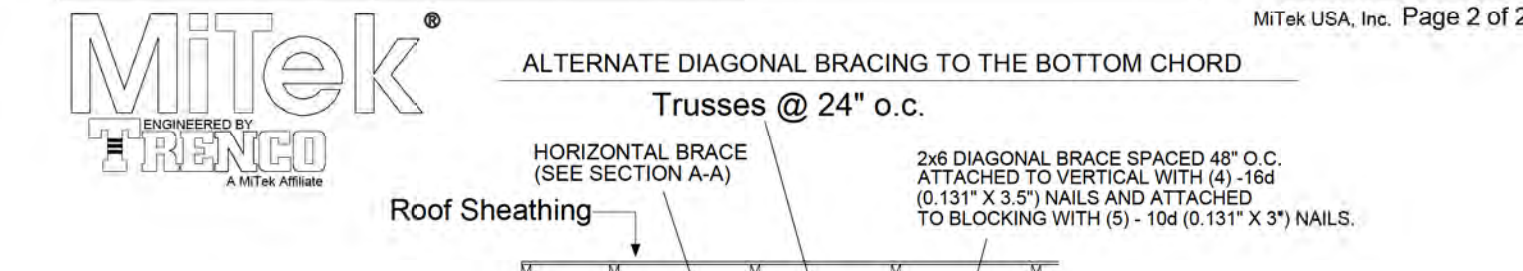
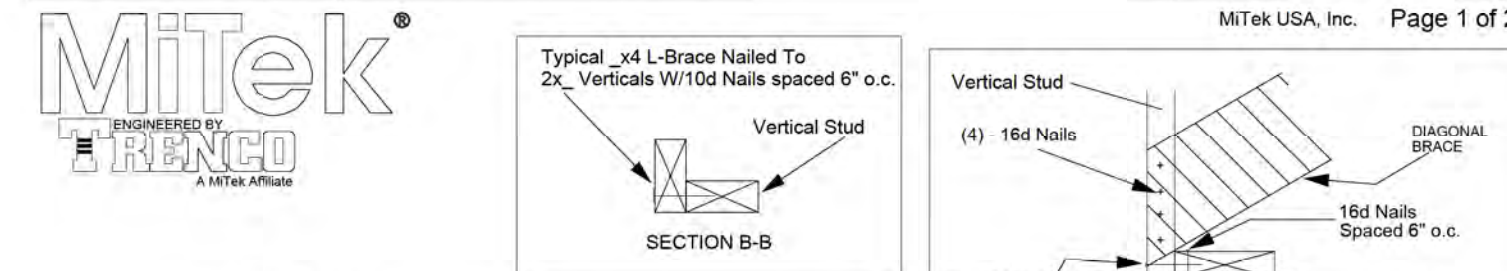
ROOF SHEATHING ATTACHMENT DETAIL

SCALE: 3/8" = 1'-0"



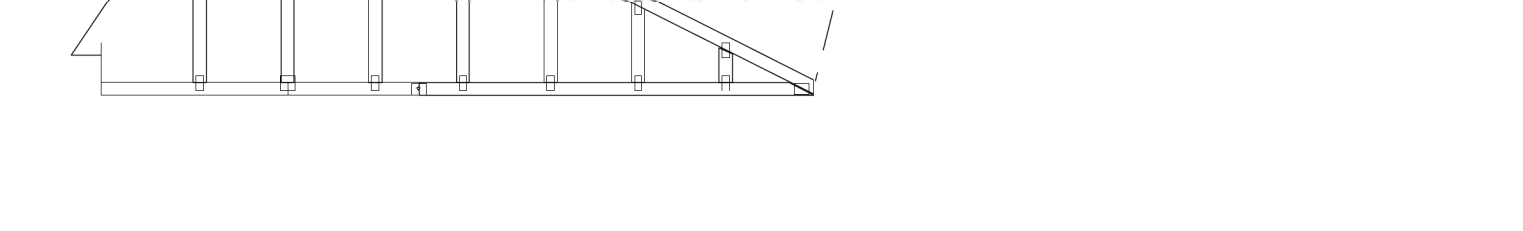
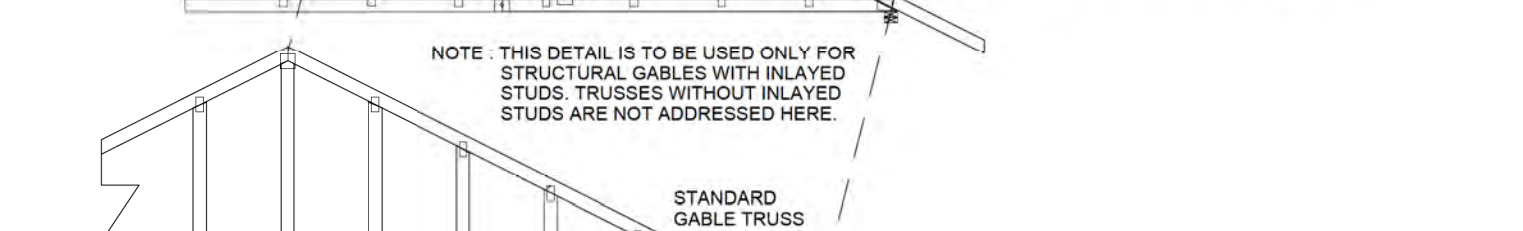
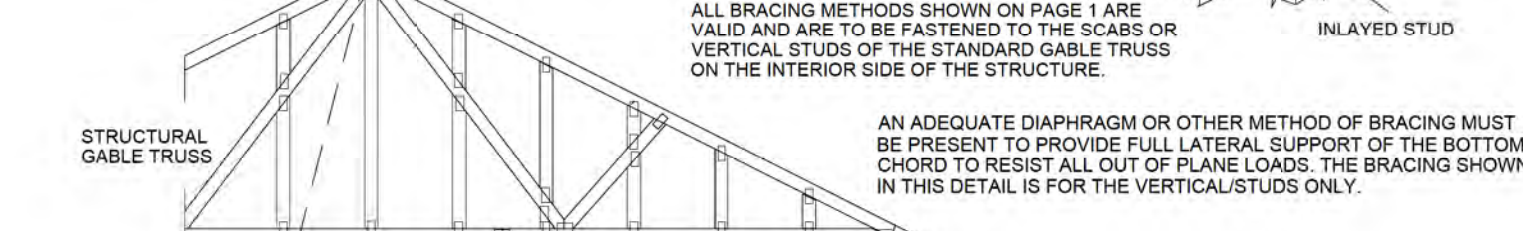
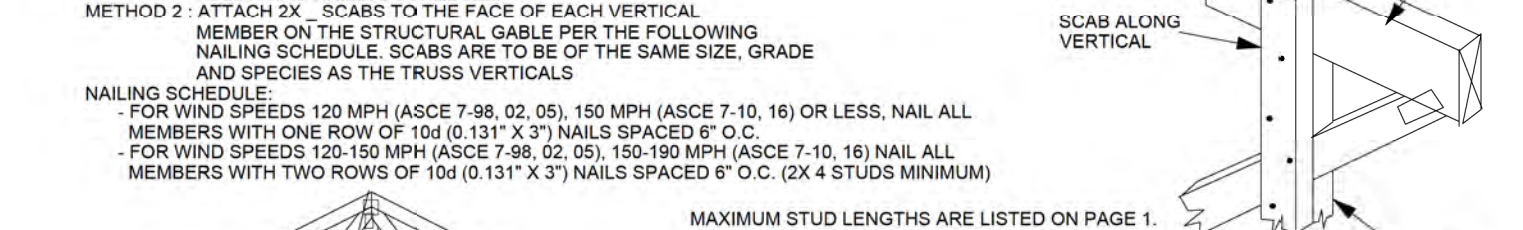
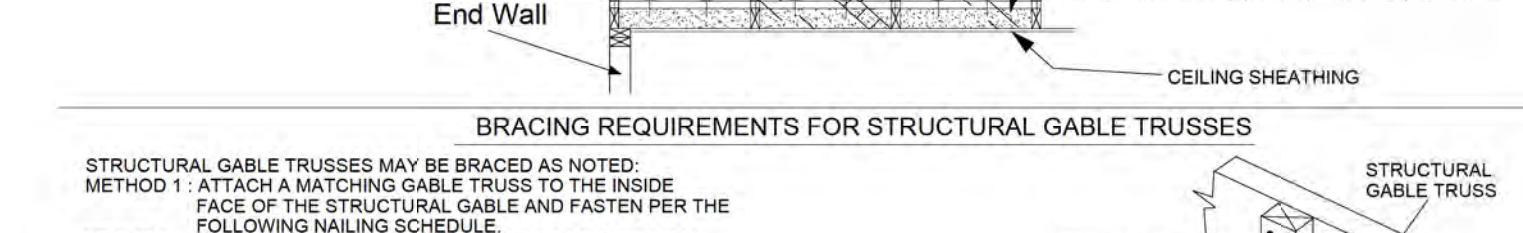
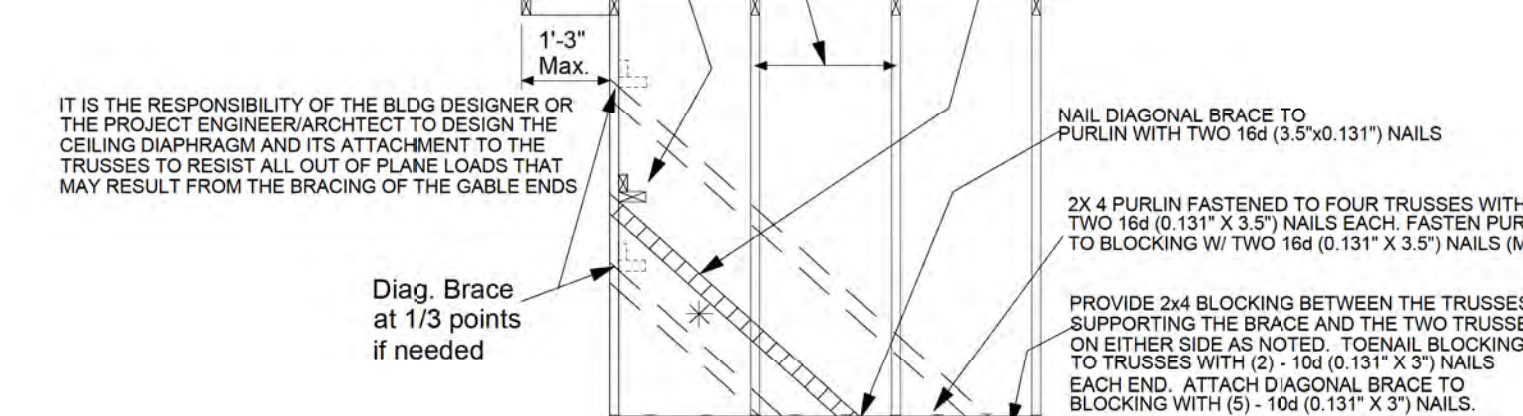
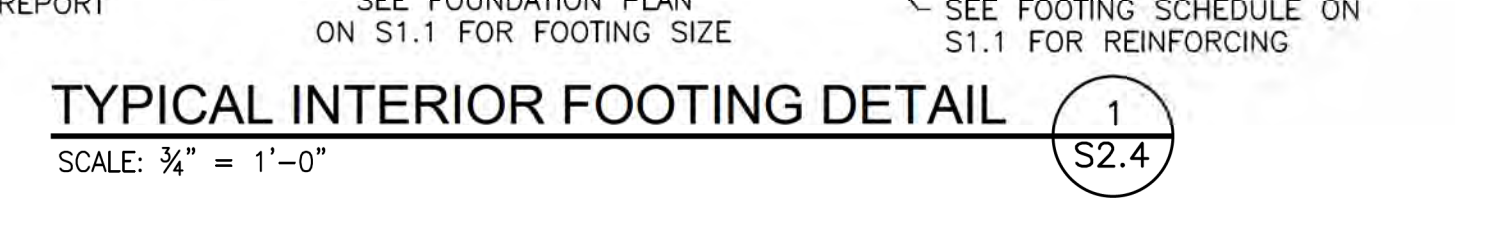
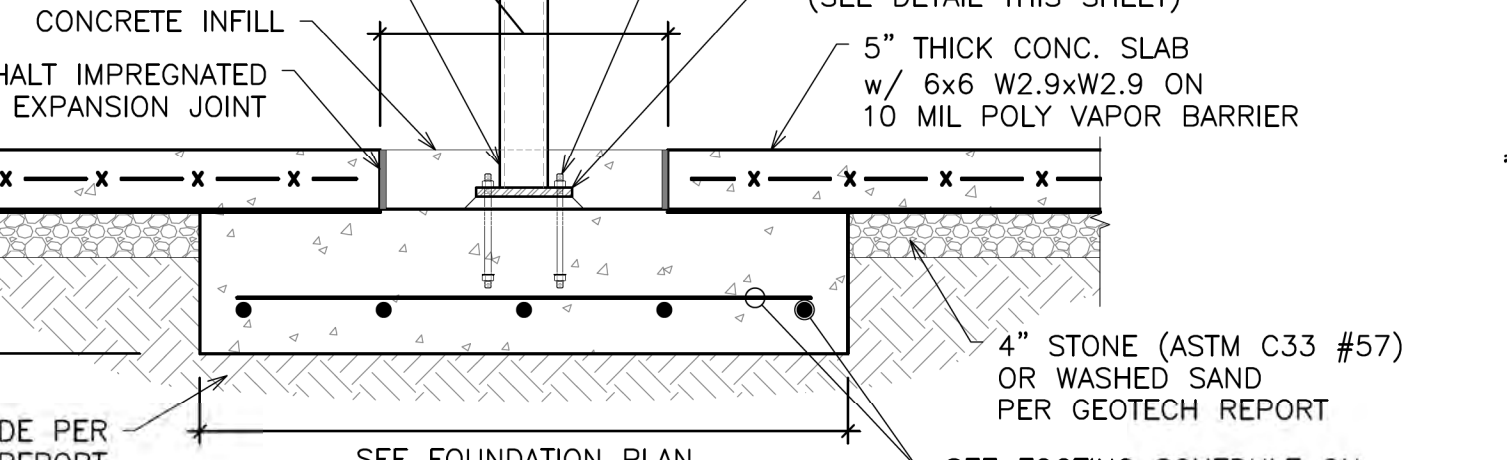
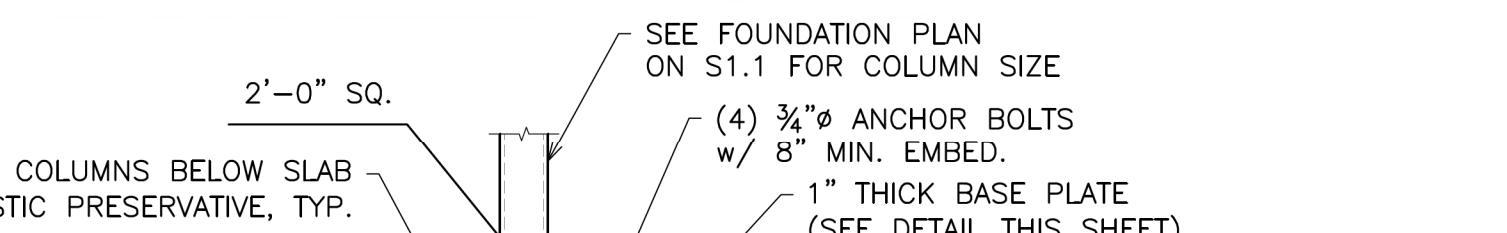
WALL SHEATHING ATTACHMENT DETAIL

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



Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Maximum Stud Length						
2x4 SP No. 3 / Stud 12" O.C.	4-9-12	5-9-6	8-2-2	9-7-7	14-5-3	
2x4 SP No. 3 / Stud 16" O.C.	4-4-7	5-0-2	7-0-16	8-8-14	13-1-5	
2x4 SP No. 3 / Stud 24" O.C.	3-9-13	4-1-1	5-9-6	7-7-10	11-5-7	

NOTE: 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT. 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM. 4. T-BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAGM AT 4/3 O.C. 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x4 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A) 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240. 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES. 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPECIAL SC. 11. NAILS DESIGNATED 16d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")



DATE: 1/19/2026
 REVISION: ISSUED FOR PERMIT
 NO. 1
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 GMB FILE: 250095
 DATE: 12/30/2025
S2.4