WOOD

FLITCH BEAMS SHALL BE SIZED AS INDICATED ON THE DRAWINGS, USING #2 SPF MINIMUM AND A=88 STEEL PLATE, UNO. TWO PIECE BEAMS OF 1-1/2" DIAMETER THROUGH BOLTS, 3" FROM TOP AND BOTTOM, SPACED 16"o/c AT TOP AND 32"o/c AT THE BOTTOM. BEGIN BOLTING NOMS 4" FROM END. STEEL FLITCH PLATES MUST BE EITHER FULL LENGTH OR FULL MONMENT BUTT SPLICE.

WOOD EXPOSED TO THE ELEMENTS, OR WOOD IN CONTACT WITH CONCRETE OR MASONRY, AND WOOD DESIGNATED "PRESERVATIVE TREATED" SHALL BE #2 GRADE SOUTHERN PINE OR BETTER & PRESSURE IMPREGNATED WITH ALKALINE COPPER QUATERNARY (ACQ) IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARDS U1 WITH A USE RETENTION OF 0.40 LBS. PER CUBIC FOOT OF WOOD. MIN DEPTH OF PENETRATION SHALL BE 2.5" OR THE SAPWOOD.

ALL STUDS SHALL BE INSTALLED IN ACCORDANCE WITH WSPA'S. MEMBERS ARE NOT TO BE SPLICED IN EXCESS OF NDS OR LOCAL CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ALL POSTS AND MULTIPLE STUDS SHALL BE RIGH CONTINUOUSLY TO SOLID BEARING ON FOUNDATION WALL OR BEAMS. ALL MEMBERS SHALL BE FREE OF SPLITS, CHECKS, SHAKES, AND OTHER DEFECTS IN EXCESS OF NDS CLASSIFICATIONS, ABOVE AND BELOW THE JOIST LINES OR TRUSS, COLUMNS SHALL BE ADEQUATELY ANCHORED TO PREVENT LATERAL DISPLACEMENT.

FRAME CHANNELS: FRAME CHANNELS SHALL BE CONSTRUCTED OF MINIMUM 20 GPF STEEL MANUFACTURED TO ASTM A653 GRADE 33 WITH A MINIMUM YIELD STRENGTH OF 33KSI. UNLESS OTHERWISE USE 3.5 x 1.5 MEMBER WITH 1.25" MIN FLANGE DIMENSIONS. FRAME CHANNELS SHALL BE ATTACHED TO WOOD WITH #10 SD SCREWS AT 16" MAX. SPACING. STUDS MUST BE CONTINUOUS ACROSS FOOT INTERSECTION.

NO STRUCTURAL MEMBER SHALL BE CMITTED, NOTCHED, CUT, BLOCKED OUT OR RELOCATED WITHOUT PRIOR APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER. DO NOT NOTCH OR DRILL STUDS WITHOUT APPROVAL.

CUTTING OF WOOD BEARING JOISTS AND RAFTERS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-SIXTH THE MEMBER DEPTH AND SHALL NOT BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN. NOTCHES AT THE ENDS OF JOISTS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. HOLES SHALL NOT EXCEED ONE-THIRTH THE DEPTH. HOLES NEAR BY OR NOTCHES ON JOISTS SHALL BE STAGGERED AT LEAST 4" CLEAR FROM THE TOP OR BOTTOM OF THE JOIST AND THE HOLE DIAMETER SHALL NOT EXCEED ONE-THIRD OF THE JOIST DEPTH.

THERE SHALL NOT BE LESS THAN ONE LINE OF BRIDGING IN EVERY EIGHT FEET OF SPAN IN FRACT, AND ROOF FRAMING. THE BRIDGING SHALL CONSIST OF NOT LESS THAN 1" X 3" WOOD MEMBERS OR 1-1/2" LUMBER DOUBLE NAILED AT EACH END OR OF EQUIVALENT METAL BRACING OF EQUAL ROBUST. BRIDGING BRACING IS NOT REQUIRED IN THE FOLLOWING CONDITIONS WHERE JOIST SPACING IS LESS THAN NOT EXCEED THE LINEAR NOMINAL BLOCK #2, STUD SHALL BE MINIMUM MATERIAL OF 2" DEPTH OF STUD WALL. PROVIDE SOLID BLOCKING BETWEEN JOISTS AT THE SUPPORTS, EXCEPT WHERE END FIXITY IS PROVIDED AT MID-POINT OF STUD WALL. PROVIDE SOLID BLOCKING BETWEEN JOISTS AT THE SUPPORTS, EXCEPT WHERE SUCH MEMBERS SHALL BE SPACED TOGETHER.

UNLESS NOTED OTHERWISE, BRACE EXTERIOR CORNERS OF BUILDING WITH 1 X 4 DIAGONALS, LET INTO STUDS, OR 4 X 8 PLYWOOD SHEET OF THICKNESS TO MATCH THAT OF SHEATHING, OR WITH METAL STRAPS. LAP PLATES AT ALL CORNERS.

WHEN AN ACCEPTABLE WITH MANUFACTURER'S WOOD FASTENING SCHEDULE IN APPLICABLE BUILDING CODES & LATEST EDITION (ASSI AND BOCA), PROVIDE BLOCKING, NAILING AND FASTENING AS PER THE SAME CODE, AT A MIN. PROVIDE BRIDGING AT EACH END OF THE JOIST, AND ONC ROW OF SOLID BRIDGING BELOW ALL PARTITIONS RUNNING.

FASTENERS: JOIST HANGERS, HURRICANE ANCHORS, POST BASES AND OTHER FRAMING ANCHORS ARE TO BE AS MANUFACTURED BY SIMPSON STRONG-TIE CO. LTD. OR EQUAL, AND ARE TO BE INSTALLED TO STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS. ALL FASTENERS TO BE 10 GA. WIRE UNLESS NOTED OTHERWISE. PROVIDE SIMPSON "H" TYPE HURRICANE TIES AT ALL RAFTER TO WALL CONNECTIONS. SEE PLAN AND SPECIFIC TO SUIT APPLICATION (UNLS PROVIDE JOIST HANGERS AT ALL JOIST TO BEAM CONNECTIONS. FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED.

THE NUMBER OF WALL STUDS AT BEARING POINTS OF 24 MEMBER BEAMS SHALL EXCEED THE NUMBER OF MEMBERS IN THE BEAM (N). THE CENTERLINE OF THE BEAM SHALL BE THE CENTERLINE OF THE BEARING STUDS (N+1).

UNLESS NOTED OTHERWISE ON PLANS, PROVIDE 2-2"x12"x12" PLATE WASHERS AT THE BASE OF EACH WOOD OF BEAM CONTINUOUS THESE STUDS TO THE FOUNDATION WITH INTERMEDIATE SUPPORTS THROUGH 1-3/4" DIA BOLTS AT 4'o/c MAXIMUM. BOLTS TO BE PLACE 6 INCHES FROM PLATE.

ALL EXTERIOR POSTS TO BE TREATED (N.O.). NOTCH TOP OF POST FOR BEAM SEAT 1/3 DEPTH AND 1/3 THE WIDTH OF THE POST WITH 6"o/c (2) 1/2" DIA. BOLTS AT CORNER POSTS. ANCHOR POST TO CONCRETE CONNECTION WITH @AC SERIES BY SIMPSON STRONG-TIE OR EQ. PROVIDE SOLID BLOCKING BELOW ALL COLUMNS TO TRANSFER LOAD DIRECTLY TO FOUNDATION/FOOTING BELOW.

PROVIDE DOUBLE JOIST UNDER ALL PARTITIONS PARALLEL TO JOIST SPAN AND AROUND ALL FLOOR AND ROOF OPENINGS. SPACE & NAIL PARTITION STUDS AS REQUIRED FOR WALL CONSTRUCTION. SOLID BLOCKING AT 12"o/c BETWEEN JOISTS UNDER PARTITIONS ABOVE) WHICH ARE PARALLEL TO THE JOISTS BUT NOT DIRECTLY OVER TRUSSES. BLOCKING SHALL BE NOT LESS THAN 2" IN THICKNESS & SHALL MATCH THE DEPTH OF THE JOISTS. TRUSSES MAY USE TRUSS BLOCKS.

ALL MULTI-PLY BEAMS SHALL BE NAILED WITH 3 ROWS OF 6d NAILS AT 8"o/c STAGGERED OR BOLTED WITH 1/2" DIA BOLTS AT 16"o/c STAGGERED (U.N.O.).

PROVIDE COLLAR TIES OF THE ROOFERS AT UPPER 1/3 DOWN FROM RIDGE BEAMS SPACED @16"o/c MAXIMUM (TYP CONVENTIONAL FRAMING).

BALLOON FRAME ALL END WALLS WITH CENTERLINE SIDING (U.N.O.): 2x4 @16"o/c UP TO 9'-0", 2x6 @16"o/c UP TO 14'-0" & 2x8 @ 16"o/c UP TO 18'-0".

FASTEN SHEET-END WALL STUDS TO EDUNE DIAPHRAM BY FASTENING NAILER TO EACH STUD AND BY FASTENING CLOSE TO NAILER WITH 8d NAILS AT 6"o/c.

FASTEN DECKS TO FLOOR STRUCTURE. PROVIDE CONTINUOUS TREATED TIMBER TWO-SOLDED TO FLOOR MEMBERS w/(2) 10"d NAILS AT 16"o/c. PROVIDE NOT-DIPPED GALV. STRAPPED AT CORNERS.

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

ALL EXTERIOR WALLS SHALL BE STUDDED AT 16"o/c AS SPECIFIED ON PLANS WITH 7/16" OSB EXTERIOR SHEATHING. BLOCKING AT HORIZONTAL PANEL EDGES IS NOT REQUIRED. NAIL ALL REQUIRED PANEL EDGES WITH 8d NAILS AT 6"o/c AND INTERMEDIATE STUDS WITH 8d NAILS AT 12"o/c.

WOOD - CONTINUED

SHEARWALLS SHALL HAVE STUDS @ 16"o/c (MAX.) WITH 32" OSB EXTERIOR SHEATHING (U.N.O. SEE PLAN). BLOCKING AT HORIZONTAL PANEL EDGES IS REQUIRED. NAIL ALL SHEATHING PANEL EDGES WITH 8d NAILS AT 6"o/c (U.N.O. SEE PLAN) AND INTERMEDIATE STUDS WITH 8d NAILS AT 12"o/c (U.N.O., SEE PLAN)

SHEAR WALL HOLD-DOWNS: ALL SHEAR WALLS SHOWN ON PLANS TO HAVE HOLD-DOWNS AT THE ENDS OF EACH WALL UNLESS NOTED OTHERWISE ON THE PLANS.

* AT UPPER FLOORS USE (2) SIMPSON HDA7S OR (1) SIMPSON PTAT AT EACH END OF SHEAR WALL SEGMENT AND EACH EXTERIOR CORNER OF BUILDING.
* AT CONCRETE FOUNDATION USE (2) SIMPSON HDA7S AT EACH END OF SHEAR WALL SEGMENT AND AT EACH EXTERIOR CORNER OF BUILDING.
* AT CONCRETE WALLS USE (2) SIMPSON HDA7S OR (1) SIMPSON PTAT AT EACH END OF SHEAR WALL SEGMENT AND AT EACH EXTERIOR BUILDING CORNER.
* PROVIDE 3 STUDS MIN. AT EACH HOLD-DOWN.
* PROVIDE TIMES 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 2X__ JOIST ABOVE THE SHEAR WALL WHERE JOISTS RUN PERPENDICULAR. PROVIDE SOLID BLOCKING ABOVE SHEAR WALLS WHERE JOISTS ARE PARALLEL TO THE SHEAR WALL, THROUGH FLOOR SHEATHING ABOVE INTO WALL WITH (2) 10d NAILS AT 4"o/c.

1/4" SHEATHING 2"-4" ABOVE & BELOW ALL WALL FLOOR INTERFACES.

ALTERNATE POINT NAILS (FOR FRAMING MEMBERS ONLY)- 8-1/4# x 2⅜" FOR 8d NAILS & 8.31#/# x 3" FOR 16d NAILS PROVIDE DEFORMED SHANK NAILS AS RECQ. BY U.L. RATINGS.

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'S 318 AND ALL FLAT CONCRETE TO CONFORM TO ACI 302 AND ACI 332 CODES TO RESISTANCE, CAST IN PLACE CONCRETE CONSTRUCTION. MIXES SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS NOTED OTHERWISE ON THE PLANS. ALL INTERIOR CONCRETE PROTECTED FROM WEATHER SHALL BE OF LOW-DENSITY CONCRETE.

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. STEEL OF REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL BE HIGH-STRENGTH CONFORMING TO ASTM A185. ALL CONCRETE SHALL BE PROPORTIONED TO COMPLY WITH ASTM C94 FOR CLASS C AND SHALL NOT BE PROPORTIONED IN MIXES WITH MORE THAN 20% CEMENT BY WEIGHT. LIQUID-ADMIXTURE CONCRETE COMPOUNDS SHALL BE NON-CHLORIDE, NON-TOXIC AND AGITATOR-BASED, COMPLYING WITH ASTM C309 AS TESTED UNDER ASTM C793. SLUMP OF THE CONCRETE SHALL BE AS SHOWN ON THE DRAWINGS OR AS SPECIFIED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL FURNISH A SIGNED CERTIFICATE OF COMPLIANCE FOR CONCRETE.

SLAB ISOLATION JOINTS: PROVIDE PRE-MOLDED JOINT FILLER AT PERIMETER OF SLABS ON GRADE AT 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"M SCREEN) IN LIEU OF COARSE AGGREGATE. ALL CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION (SURFACE/SCREED), SLUMP OF THE CONCRETE SHALL BE A MINIMUM OF 5" AND A MAXIMUM OF 8", UNLESS PROJECT SPECIFICATIONS.

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

ADDITION OF WATER TO THE CONCRETE AT THE JOB SITE FOR THE PURPOSE OF INCREASING THE SLUMP OR FOR OTHERWISE CHANGING THE DESIGN MIX IS NOT PERMITTED. DO NOT ALTER CONCRETE MIXES IN THE PRODUCT SPECIFICATIONS FOR REQUIREMENTS OF WATER ADDITION TO CONCRETE AT THE JOBSITE.

SLABS ON GRADE SHALL BE 4" THICK UNLESS OTHERWISE NOTED ON THE PLANS AND SHALL BE REINFORCED WITH 6X6 GAUGE WELDED WIRE FABRIC SHALL BE SUPPORTED ON HIGH CHAIRS SO THAT THE FABRIC IS POSITIONED AT MID-DEPTH OF THE SLAB THICKNESS. LAP THE FULL MESH PLUS 2" AT SPLICES IN REINFORCEMENT. PLACE CONCRETE OVER 6 MIL POLYETHYLENE VAPOR BARRIER AND 4" MINIMUM OF COURSE AGGREGATE OR GRANULAR FILL. SEE PLANS FOR SLAB THICKENING AT LOAD BEARING WALLS AND COLUMNS. PROVIDE SUBGRADE OF COMPACTED AND UNIFORM SOIL. ALL INTERIOR SLABS SHALL BE COMPACTED IN 8 INCH LAYERS TO 90% MAX. DENSITY. USE AIR-ENTRAINED AT ALL EXTERIOR SLABS.

CONCRETE FOR SLABS-ON-GRADE SHALL BE PLACED IN A SEQUENCE AND MANNER THAT IS COORDINATED WITH CONSTRUCTION OF WALLS AND OTHER VERTICAL ELEMENTS. PROVIDE 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 CONCRETE. FLOOR SLABS IN ALTERNATE PANELS WITH A MAXIMUM OF 600 SF AND PROVIDE CONTROL AND CONSTRUCTION JOINTS AT 15'-0" MAXIMUM OR AS REQUIRED TO MINIMIZE SHRINKAGE CRACKING.

SLAB CONTROL JOINTS: SAW CUT OR FORM TO 1/3 SLAB DEPTH, SPACE NO MORE THAN 15 FEET APART. CONTINUOUSLY ALIGN WITH FABRIC AT CONTROL JOINTS. PROVIDE JOINTS IN OFFSET SUPPORTED SLABS IN RECTANGULAR CONFIGURATION, WITH THE LONGER SIDE NO MORE THAN ONE-AND-ONE-HALF TIMES THE LENGTH OF THE SHORTER SIDE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ANCHOR BOLTS, CLIPS, INSERTS, CONSTRUCTION PLATES, SLEEVES AND OTHER ITEMS REQUIRED FOR CONCRETE WORK AS SHOWN ON THE CONTRACT DRAWINGS, AND IN COOPERATION WITH OTHER TRADES PRIOR TO PLACING CONCRETE.

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 IMPAIR THE BOND BETWEEN THE STEEL AND CONCRETE.

PROVIDE 6" X 6" CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. ALL LAPS SHALL BE A MINIMUM OF 36 BAR DIAMETERS. PROVIDE DOWELS BETWEEN ALL FOOTINGS, WALLS AND PIERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

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

MASONRY

ALL MASONRY WORK SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF IBA AND MSJM SPECIFICATION FOR CONCRETE MASONRY CONSTRUCTION (ACI 531.1-79) AND "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530-92)" PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE.

PROVIDE CONTINUOUS MASONRY BOND BEAM SPANNING ALL EXPANSION JOINTS & WALL INTERSECTIONS.

PROVIDE (2) #5 GENT BARS WITH 3-7/OOT LOSS AT EVERY CORNER OR WALL INTERSECTION.

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

REINFORCED MASONRY WALLS SHALL HAVE ALL REINFORCED CELLS FILLED WITH CONCRETE. CONCRETE MAY BE PLACED IN MASONRY IN VERTICALLY ADJUSTABLE LIFTS NOT EXCEEDING 4'-0" WHEN THE CONCRETE FILL ABOVE ANY IS TO RECEIVE ADDITIONAL LIFTS ABOVE.

MASONRY WALLS SHALL HAVE TOOLED HORIZONTAL AND VERTICAL JOINTS. TRUSS TYPE HORIZONTAL REINFORCEMENT AT 16"o/c VERTICALLY ABOVE GRADE AND 8"o/c VERTICALLY BELOW GRADE. CONSTRUCT BRICK TO THE UNDERSIDE OF THE FLOOR SHEATHING ABOVE, WHERE JOISTS RUN PARALLEL TO THE SHEAR WALL, PROVIDE A 2X__ JOIST ABOVE THE SHEAR WALL WHERE JOISTS RUN PERPENDICULAR. PROVIDE SOLID BLOCKING ABOVE SHEAR WALLS WHERE JOISTS ARE PARALLEL TO THE SHEAR WALL, THROUGH FLOOR SHEATHING ABOVE INTO WALL WITH (2) 10d NAILS AT 4"o/c.

BRICK VENEER WALLS TO HAVE ADEQUATE ANCHORAGE TO BACKING VERTICALLY AND HORIZONTALLY AND COMPLY WITH ASTM 440 AND #153, CLASS B-3 CORRUGATED MASONRY WIRE DIAMETER SHALL BE 0.075 INCHES MINIMUM, WIDTH HOLES 8" AT 16" FULL FLEXIBLE.

PROVIDE MIN. 2 COURSES 8"x 16" SOLID BEARING AT SHEAR & BEARING BEARING POINTS IN CMU WALLS.

ASE STEEL LINTEL SIZES FOR OPENINGS PER "-" THICKNESS OF MASONRY WALL AS FOLLOWS:

4'-0" SPAN OR LESS	7'-6" SPAN OR LESS
5'-0" SPAN OR LESS	8'-0" SPAN OR LESS
6'-0" SPAN OR LESS	10'-0" SPAN OR LESS

L3"x 3"x 5/16"	L3"x 3"x 5/16"
L4"x 3"x 5/16"	L4"x 3"x 5/16"
L5"x 3"x 5/16"	L5"x 3"x 5/16"

PROVIDE MIN. 8" BEARING EACH END & BRICK TIES, 16"o/c IN 16 COURSE ABOVE LINTEL.

STEEL LINTELS w/2x/Wood shim to MATCH WALL FINISH, LINTELS THAT ARE REMOVED, WILL OCCUPY EXPANSION SOILTS, SILL PLATE ANCHOR BOLTS OR OTHER MECHANICAL ATTACHMENTS AND ALL CELLS BELOW GRADE.

REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-615, GRADE 60). SHOP FABRICATED REINFORCING BARS, WHICH ARE SHOWN TO BE HOOKED, OR BENT. PROVIDE A MINIMUM LAP OF 48 BAR DIAMETERS AT ALL SPLICES, UNLESS INDICATED OTHERWISE.

UNLESS OTHERWISE NOTED, ALL MASONRY SHALL BE LAID IN RUNNING BOND. BOND CORNERS AND INTERSECTIONS WITH STANDARD BOND.

PROVIDE VERTICAL REINFORCING BARS OF THE SIZES SIZE AND SPACING AS INDICATED. PROVIDE BARS FULL STORY HEIGHT WITH STANDARD HOOKS AT ENDS.

PROVIDE REBAR DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCING SIZE AND SPACING. DOWELS SHALL HAVE STANDARD HOOKS AT ENDS AND LAP WITH THE VERTICAL BARS A DISTANCE OF 48 BAR DIAMETERS.

PROVIDE BOND BEAM LINTELS AND BRICH SHELF ANGLES ABOVE ALL WINDOWS.

PROVIDE JOINT & BEAM BEARING PLATES w/OTHER ACCESSORIES AS INDICATED, WITH 2 COURSES OF BRICK GRADED OVER ALLOW ALL BEARING PLATES TO BE SET ON A LEVEL CENTERED ON THE WALL.

PROVIDE CMU CONTROL JOINTS AS INDICATED, w/ADDITIONAL JOINTS SUCH THAT THE SPACING BETWEEN JOINTS DOES NOT EXCEED A SPACING OF 3x WALL HEIGHT, 30' MAXIMUM. WHERE BEAMS OR JOISTS BEAR ON CMU WALLS, PROVIDE CONTROL JOINTS WITHIN 12" OF BEARING POINTS.

MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION

PRE-ENGINEERED 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 THE NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENINGS AS ADOPTED BY THE NATIONAL BUILDING CODE. TRUSS DESIGN DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THESE SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES (ANSI/TPI-1), TRUSS PLATE INSTITUTE (TPI), AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. ALL WOOD TRUSSES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. WORK SHALL INCLUDE ALL ANCHORAGE, BLOCKING, DUNNING, BRIDGING, TEMPORARY AND PERMANENT BRACING.

LUMBER USED FOR TRUSS MEMBERS SHALL BE IDENTIFIED BY GRADE MARK OF A LUMBER INSPECTION AGENCY. AS SHOWN ON THE APPROVED SHOP DRAWINGS. TRUSSES SHALL BE HANDLED DURING FABRICATION, DELIVERY AND ERECTION SO AS NOT TO BE SUBJECTED TO EXCESSIVE BENDING, TWISTING OR OTHER DISTORTION. TRUSSES SHALL BE STORED IN A VERTICAL POSITION AND SHALL BE PROTECTED FROM DAMAGE AND EXPOSURE TO THE WEATHER. ACTIVITIES AND ENVIRONMENTAL CONDITIONS. PREMIUM TOPPLING WHEN BANDING IS REMOVED.

HANDLE DURING INSTALLATION IN ACCORDANCE WITH HANDLING, INSTALLED AND BRACING NDS. TRUSSES SHALL BE SET PLUMB AND ALIGNED AND HELD IN POSITION AS SHOWN ON THE APPROVED SHOP DRAWINGS. PERMANENT LOAD BEARING PARTITIONS, TRUSSES SHALL BE SET AND SECURED LEVEL AND PLUMB, AND IN CORRECT LOCATION. TRUSSES SHALL BE HELD IN CORRECT ALIGNMENT UNTIL SPECIFIED PERMANENT BRACING HAS BEEN INSTALLED. NO CUTTING OR ALTERING OF TRUSSES IS NOT PERMITTED. CONCENTRATED LOADS (FULL BUNDLES OF DECKING) SHALL NOT BE PLACED ATOP TRUSSES UNTIL ALL TRUSSES ARE BRACED AND ALL PERMANENT BRACING IS INSTALLED. TRUSSES SHALL NOT BE ALTERED IN THE FIELD. ANY MODIFICATIONS REQUIRED SHALL BE INDICATED IN RESPONSIBLE DETAILINGS AND FURNISHING THE MATERIALS USED FOR INSTALLATION AND PERMANENT BRACING.

CONSTRUCTION DRAWINGS FOR WOOD TRUSSES SHALL BE SUBMITTED FOR REVIEW PRIOR TO SUBMITTAL OF BUILDING OFFICIAL. BUILDING OFFICIAL SHALL APPROVE SHOP DRAWING PRIOR TO INSTALLATION. SUBMITTAL SHALL INCLUDE SHOP DRAWINGS AND ENGINEERING CALCULATIONS.

MANUFACTURER SHALL SUBMIT 3 COPIES OF TRUSS DESIGN DRAWINGS BEARING SEAL OF ENGINEERING ENGINEER FOR APPROVAL PRIOR TO ERECTION AND ENGINEERING FRAMING PLANS FOR ALL FLAT CHORD TRUSSES. ALL TRUSS SHOP DRAWINGS MUST BE REVIEWED AND APPROVED IN WRITING BY GENERAL CONTRACTOR PRIOR TO SUBMITTAL OF SHOP DRAWINGS TO STRUCTURAL ENGINEER AND MUST INCLUDE THE FOLLOWING:

1. TRUSS LAYOUT DRAWING. EACH TRUSS IS REGISTERED IN THE STATE WHERE THE JOB IS TO BE CONSTRUCTED, RESPONSIBLE FOR PREPARATION OF ALL TRUSS DESIGN AND LAYOUT DRAWING.
2. ALL DRAWINGS LOADS IN LBS/SQFT/TOTAL MIN PSI FOR LUMBER & PLATES USED AS ALLOWED BY NDS. CURRENT GRED REPORT NUMBER & BY SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL.
3. STRESS REDUCTION FACTORS USED FOR PLATES.
4. TYPE, SIZE, AND LOCATION OF ALL PLATES.
5. SIZE, GRADE, AND EXACT LOCATION BY SPECIES OF PLATES.
6. LUMBER SPECIES AND GRADES USED.
7. NAME & TRADENAME OF PLATE MANUFACTURER, TRUSS FABRICATOR & PROJECT NAME/LOCATION
8. CONVENTIONAL LOAD REQUIREMENTS HAVE BEEN DESIGNED FOR AND SHOWN ON DOCUMENTS.
9. PLYWOD CONNECTION HARDWARE REQUIREMENTS.

PRE-ENGINEERED WOOD TRUSSES- CONTINUED

ALL TRUSSES MUST BE DESIGNED FOR LIGHT LOADS, AS APPLICABLE FOR EACH TRUSS BEARING POINT MUST BE SHOWN ON TRUSS ENGINEERING SHEET.

ALL ROOF TRUSSES SHALL BE ATTACHED TO PERPENDICULAR NON-LOAD BEARING WALLS WITH TRUSS CLIPS. CEILING JOIS SHALL BE ATTACHED TO BLOCKING ON THE WALL AND NOT TO BE MORE THAN A DISTANCE OF 16" FROM THE WALL.

ALL ROOF TRUSSES ON THE CONCET FLOOR ALL TRUSSES SHALL BE ATTACHED TO PERPENDICULAR NON-LOAD BEARING WALLS WITH TRUSS CLIPS. CEILING JOIS SHALL BE ATTACHED TO BLOCKING ON THE WALL AND NOT TO BE MORE THAN A DISTANCE OF 16" FROM THE WALL.

LIVE LOAD DEFLECTION SHALL NOT EXCEED 2" OR L/480 FOR FLOOR TRUSSES AND 2" OR L/360 FOR ROOF TRUSSES.

THE MANUFACTURER SHALL SUPPLY ALL REQUIRED HANGERS, HOLD-DOWN CLIPS, AND OTHER SPECIAL HARDWARE.

MISCELLANEOUS

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS IN CONNECTION WITH THE WORK. THIS PROJECT AND THE PROTECTION OF PERSONS AND PROPERTY STRICT 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 MECHANICAL, ELECTRICAL CONSTRUCTION AND EQUIPMENT.

EARTH RETAINING WALLS, UNLESS OTHERWISE NOTED ON THE DRAWINGS, SHALL BE ADEQUATELY BRACED UNTIL CONCRETE FOR SUPPORTING SLABS HAS BEEN PLACED AND ALL CONCRETE HAS CURED.

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 INSPECTION. NO CONCRETE SHALL BE PLACED UNTIL THE LAST OF THE FORMS, STEEL AND REINFORCEMENT IS IN PLACE.

SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED BY THE CONTRACTOR OR SUBCONTRACTOR DURING ALL WORK IN THE BUILDING. THE ARCHITECT AND ENGINEER SHALL NOT BE RESPONSIBLE FOR OR CONTROL OR OVERSEE OR SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR ACTS OF OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

ALL SPECIALTY BOLTS, INCLUDING EXPANSION TYPE AND EPOXY TYPE ANCHORS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

THE CONTRACTOR SHALL PROTECT FROM DAMAGES EXISTING BUILDING(S), OWNER EQUIPMENT, ROADS, WALKS AND FEATURES. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

IN AREAS WHERE THE DRAWINGS DO NOT ADDRESS METHODOLOGY, THE CONTRACTOR SHALL BE BOUND BY THE MORE STRINGENT OF THE APPLICABLE CODES, REGULATIONS AND/OR RECOMMENDATIONS.

THE CONTRACTOR IS AWARE OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.

THE GENERAL NOTES AND TYPICAL DETAILS APPLY THROUGHOUT THE JOB UNLESS OTHERWISE NOTED ON THE DRAWINGS.

THE CONTRACTOR SHALL COMPARE AND COORDINATE ALL DRAWINGS. IF A DISCREPANCY EXISTS, NO WORK S