LIGHT GAGE FRAMING:

1. DESIGN MANUAL, AS PUBLISHED BY THE AISI AND THE LIGHT GAGE STRUCTURAL STEEL FRAMING DESIGN HANDBOOK AS PUBLISHED BY LGSI.
2. SHOP DRAWINGS SHALL SHOW COMPLETE FRAMING ELEVATIONS, SECTIONS AND DETAILS OF ALL INSTALLATIONS. INCLUDE COMPLETE LARGE SCALE DETAILS OF ALL TYPICAL AND SPECIAL CONDITIONS OF CONSTRUCTION, AND CLEARLY INDICATE MATERIALS, SIZES, SHAPES, SECTIONS, GAGES, THICKENS AND FINISH OF ALL MEMBERS.
3. CLEARLY INDICATE ALL MATERIALS AND METHODS USED ON THE CONNECTIONS AND ANCHORING OF WORK, INCLUDING DESIGNS LOCATIONS AND SPACING OF ALL WELDS, FASTENINGS, ANCHORS AND PROPOSED SECTION TOLERANCES.
4. APPROVAL OF SHOP DRAWINGS WILL BE FOR SIZE AND ARRANGEMENT OF ITEMS AND STRENGTH OF CONNECTIONS. ERROR IN DIMENSIONS AND CALCULATIONS SHOWN ON THE SHOP DRAWINGS SHALL BE THE RESPONSIBILITY OF THE ERECTOR.
5. OBTAIN ARCHITECT'S APPROVAL OF SHOP DRAWINGS BEFORE PROCEEDING WITH FABRICATION AND ERECTION.
6. ALL LIGHT GAGE MEMBERS SHALL BE MIN. 18 GAGE.
7. STRUCTURAL STUDS, JOIST, BRIDGING AND ACCESSORIES SHALL HAVE A MINIMUM YIELD STRENGTH 50,000 PSI FOR 16 GAGE AND THICKER MATERIAL, AND 33,000 PSI FOR MATERIAL THINNER THAN 16 GAGE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN AND PERFORMANCE OF ALL COLD FORM LIGHT GAGE STEEL FRAMING. ALL SIZES, GAGES, AND DESIGNED REQUIREMENTS SHOWN ON THE DRAWING ARE TO BE CONSIDERED MINIMUM REQUIREMENTS AND NOT FINAL REQUIREMENTS. PRIOR TO FABRICATION OF FRAMING. THE CONTRACTOR SHALL SUBMIT FABRICATION AND ERECTION DRAWINGS TO THE A/E FOR APPROVAL.
9. HANDLING AND LIFTING OF PREFABRICATION PANEL SHALL BE DONE IN SUCH A MANNER AS TO NOT CAUSE DISTORTION IN ANY MEMBER. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE. STUDS SHALL BE PLUMED, ALIGNED, AND SECURELY ATTACHED TO THE FLANGES OR WEB OF BOTH UPPER AND LOWER TRACKS. JACK STUDS OR CRIPPLES SHALL BE INSTALLED BELOW WINDOW SILLS, AND ABOVE WINDOW AND DOOR HEADS, AT FREESTANDING STAIR RAIL, AND ELSEWHERE TO FURNISH SUPPORT, AND SHALL BE SECURELY ATTACHED TO SUPPORTING MEMBERS.
10. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED. WALL STUD BRIDGING SHALL BE INSTALLED IN A MANNER AS TO PREVENT ROTATION AND ALSO IN A MANNER TO PROVIDE RESISTANCE TO BOTH MINOR AXIS BENDING AND ROTATION BRIDGING ROWS SHALL BE SPACED AT 4'-0"o.c. MAXIMUM UNLESS APPROVED OTHERWISE.
11. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL LIGHT GAGE FRAMING LOCATIONS AND REQUIREMENTS. COORDINATE LOCATIONS AND DESIGN FOR ALL WALL-HUNG EQUIPMENT.
12. PROVIDE CONNECTIONS, BRACES, BRIDGING AND RUNNER TRACKS (MIN. 14 GAGE, BUT NOT LESS THAN GAGE OF SUPPORTED STUD) TO DEVELOP THE FULL CAPACITY OF THE MEMBERS, PROVIDE CLIPS, CONNECTIONS, AND STRAPPING FOR TEMPORARY LATERAL BRACING AND ALL ITEMS NECESSARY FOR COMPLETE INSTALLATION.
13. WINDOW AND DOOR HEADS SHALL BE FRAMED WITH JOIST SECTIONS SUFFICIENT TO CARRY THE WEIGHT OF THE WALL ABOVE AND TRANSFER WINDOW AND WALL LATERAL FORCES TO THE JAMB. JAMB SECTIONS SHALL CONSIST OF HEAVIER GAGE STUDS, MULTIPLE STUDS, OR BOTH AS REQUIRED TO PROVIDE LATERAL SUPPORT FOR WINDOW AND DOOR OPENINGS.
14. STUDS AND ACCESSORIES ARE OF THE TYPE, WALL SIZE AND SPACING AS SHOWN ON THE DRAWINGS AND SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES, INC., OR EQUIVALENT. HEAVIER GAGES MAY BE SUBSTITUTED FOR THOSE SHOWN. STUDS SHALL BE MARKED WITH MANUFACTURER'S NAME, GAGE, SIZE, AND YIELD STRENGTH.
15. STUDS OF 18 GAGE AND LIGHTER, TRACKS AND ACCESSORIES OF 16 GAGE AND LIGHTER SHALL BE ASTM A 570 GRADE A (MINIMUM YIELD STRENGTH 33 KSI). ALL STUDS OF 16 GAGE AND HEAVIER, TRACKS AND ACCESSORIES OF 14 GAGE AND HEAVIER SHALL BE ASTM 446 GRADE D (MINIMUM YIELD STRENGTH 50 KSI). STUDS, TRACK, AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING.
16. STUDS AND TRACKS SHALL BE CONTINUOUS ACROSS THE ENTIRE SPAN.
17. FASTENERS CONNECTING LIGHT GAGE MEMBERS AND ACCESSORIES SHALL BE A MINIMUM OF NO. 10 SIZE WITH A MINIMUM DIAMETER OF 0.190 INCHES. A MINIMUM OF TWO FASTENERS SHALL BE USED AT EACH LOCATION UNLESS NOTED OTHERWISE.
18. FASTENERS CONNECTING LIGHT GAGE MEMBERS AND STRUCTURAL STEEL SHALL BE POWDER ACTUATED FASTENERS (PAF's) OF 0.145 INCH IN DIAMETER MINIMUM. FASTENERS FROM LIGHT GAGE MEMBERS TO CONCRETE SHALL BE PAF's OF 0.145 INCH IN DIAMETER. MINIMUM EMBEDMENT SHALL BE 1-1/8 INCHES FOR 0.145 PAF's, WITH EDGE DISTANCES OF 3 INCH MINIMUM AND SPACINGS OF 4 INCH MINIMUM.
19. FASTENERS CONNECTING TRACKS TO STRUCTURAL STEEL OR CONCRETE SHALL BE SPACED AT 16 INCHES ON CENTER MAXIMUM. FASTENERS OR FASTENER GROUP SHALL BE CENTERED AS CLOSE AS POSSIBLE TO THE WEBS OF THE WALL STUDS OR THE CENTERLINE OF MULTIPLE-STUD JAMBS.
20. WALL STUD BRIDGING SHALL BE INSTALLED IN A MANNER TO PROVIDE RESISTANCE TO BOTH MINOR AXIS BENDING AND ROTATION BEFORE THE INSTALLATION OF SHEATHING. BRIDGING ROWS SHALL BE EQUALLY SPACED NOT TO EXCEED 7'-0" ON CENTER FOR WIND LOADING OR 5'-0" ON CENTER FOR AXIAL LOADING.
21. ACCEPTABLE STUD MANUFACTURERS INCLUDE, DIETRICH, UNIMAST, OR APPROVED EQUAL.

WOOD TRUSS NOTES:

1. THE WOOD AND FABRICATION CRITERIA OF ALL WOOD TRUSSES ARE TO MEET THE "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENINGS" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION, "TIMBER CONSTRUCTION STANDARDS" BY AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, AND "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES BY THE TRUSS PLATE INSTITUTE.
2. ALL CONNECTOR PLATES ARE TO BE A MINIMUM OF 20 GAUGE. ALL CONNECTOR PLATES ARE TO MEET THE REQUIREMENTS OF ASTM A446 GRADE A AND ARE TO BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A525 WITH G60 COATING.
3. ALL LUMBER USED FOR THE TRUSS MEMBERS IS TO HAVE A MOISTURE CONTENT BETWEEN 7% AND 19% AT THE TIME OF FABRICATION.
4. ALL WOOD TRUSSES ARE TO BE INSTALLED AND TEMPORARILY BRACED IN ACCORDANCE WITH "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS" BY THE TRUSS PLATE INSTITUTE OR BCSI "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" BY UTPI/SBCA.
5. DURING ERECTION OF TRUSSES, CARE SHALL BE EXERCISED TO KEEP HORIZONTAL BENDING OF TRUSS TO A MINIMUM. PROPER ERECTION BRACING SHALL BE INSTALLED TO HOLD TRUSSES TRUE AND PLUMB AND IN A SAFE CONDITION UNTIL THE ROOF DECKING AND PERMANENT TRUSS BRACING ARE INSTALLED.
6. SUBMIT THE FOLLOWING TO THE ARCHITECT PRIOR TO MANUFACTURE OR CONSTRUCTION:
   - -SHOP DRAWINGS INDICATING DIMENSIONED INDIVIDUAL WOOD TRUSS MEMBER CONFIGURATIONS, MEMBER LOADING AND SIZES.
   - -TEMPORARY AND PERMANENT BRACING REQUIREMENTS.
   - -CONNECTION LAYOUTS AND THEIR SPECIFICATIONS.
   - -DIMENSIONED ERECTION PLAN INDICATING THE LOCATION OF EACH WOOD TRUSS.
   - -WOOD TRUSS CALCULATIONS.
7. SHOP DRAWINGS AND CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE THE PROJECT IS LOCATED IN.
8. TRUSS MANUFACTURER IS RESPONSIBLE FOR DESIGNING & SUPPLYING ALL WOOD TRUSS TO WOOD TRUSS CONNECTIONS.
9. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE PERMANENT BRIDGING AND BRACING FOR TRUSSES.
10. TRUSS MANUFACTURER SHALL DESIGN TRUSSES FOR MECHANICAL EQUIPMENT IN ADDITION TO THE UNIFORM DEAD & LIVE LOADS. COORDINATE MECHANICAL EQUIPMENT SIZE & LOCATION WITH MECHANICAL CONTRACTOR.
11. WOOD TRUSSES SHALL BE DESIGNED FOR THE WIND UPLIFT LOADS PROVIDED ON S001.
13. WOOD TRUSS CONFIGURATIONS ARE DIAGRAMMATIC ONLY. THE TRUSS WEB MEMBERS MAY BE CONFIGURED AT THE DISCRETION OF THE WOOD TRUSS MANUFACTURER'S STRUCTURAL ENGINEER.
14. TRUSSES ARE TO BE DESIGNED FOR THE LOAD CASES AND LOAD COMBINATIONS INDICATED IN THE REFERENCED BUILDING CODE.
15. ALL LOADS ARE TO BE CONSIDERED AS MINIMUMS. INCREASE LOADS AS REQUIRED FOR ADDITIONAL LOADING INCLUDING OVERFRAMING, BRACING, CEILING VARIATIONS, ETC.
16. DEFLECTION CRITERIA ARE AS FOLLOWS:

DEAD LOAD PLUS LIVE LOAD	L/240
LIVE LOAD	L/360
WIND LOAD	L/240

17. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION AND APPROVED EQUIPMENT DRAWINGS FOR LAYOUT AND CONFIGURATION REQUIREMENTS, ROOF PITCHES, DIMENSIONS, ROOF EDGE CONDITIONS AND ADDITIONAL INFORMATION NOT SHOWN ON THE STRUCTURAL DRAWINGS.
18. DESIGN AND INSTALLATION OF ALL BRACING, INCLUDING BUT NOT LIMITED TO ERECTION BRACING, AND BRACING OF INDIVIDUAL TRUSS MEMBERS (WEBS AND CHORDS) FOR SLENDERNESS REQUIREMENTS IS STRICTLY THE RESPONSIBILITY OF THE TRUSS ENGINEER, MANUFACTURER AND INSTALLER. BRACING LOCATIONS, SIZES, AND CONNECTION REQUIREMENTS ARE TO BE CLEARLY INDICATED ON THE WOOD TRUSS ERECTION DRAWINGS. REFER TO SHEETS S101 & S102 FOR ADDITIONAL BRACING LOCATIONS & BRACING NOTES.
19. CENTERLINES OF INDIVIDUAL WOOD TRUSS MEMBERS SHALL ALIGN AT JOINTS AND OVER SUPPORTS OR DUE CONSIDERATION SHALL BE TAKEN BY THE TRUSS DESIGNER TO ACCOUNT FOR ANY ECCENTRICITY.
20. POSSIBLE SUBDIVIDING OF WOOD TRUSSES FOR SHIPPING/HANDLING TO BE APPROVED BY THE ENGINEER.
21. WOOD TRUSS MEMBERS SHALL NOT BE NOTCHED, CUT OR ALTERED WITHOUT THE SPECIFIC PRIOR APPROVAL OF THE TRUSS ENGINEER.
22. WOOD TRUSSES SHALL BE ERECTED PLUMB AND TRUE, WITH ADEQUATE ERECTION AND PERMANENT BRACING PROVIDED TO MAINTAIN TRUSSES IN POSITION UNDER ANY COMBINATION OF LATERAL AND VERTICAL LOADING, AND ANCHORED AT EACH SIDE OF EACH BEARING POINT.
23. WOOD TRUSSES SHALL NOT IMPOSE HORIZONTAL THRUST TO LOAD BEARING WALLS.

WOOD FRAMING GENERAL NOTES:

1. ALL LUMBER FRAMING MEMBERS SHALL BE SOUTHERN PINE (SP) NO. 1/NO. 2
2. LVL BEAMS SHALL BE MANUFACTURED BY THE FOLLOWING, OR APPROVED EQUAL:
   LVL 2900-F_B-2.0E BY LOUISIANNA PACIFIC
3. LVL BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

ALLOWABLE BENDING STRESS	F_B = 2,900 PSI
ALLOWABLE SHEAR STRESS	F_V = 285 PSI
MODULUS OF ELASTICITY	E = 2,000,000 PSI

4. HOLES ARE NOT TO BE CUT IN BEAMS, COLUMNS OR JOISTS UNLESS PREVIOUSLY APPROVED BY THE ENGINEER AND ONLY IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. ALL ENGINEERED WOOD PRODUCTS SHALL BE IDENTIFIED BY A STAMP INDICATING THE PRODUCT TYPE AND GRADE, NER, ICBO, ES OR CCMC EVALUATION REPORT NUMBER, MANUFACTURER'S NAME, PLANT NUMBER AND THE INDEPENDENT INSPECTION AGENCY'S LOGO.
6. SUBMIT THE FOLLOWING TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION: PRODUCT DATA, INCLUDING DESIGN PROPERTIES, FOR ALL MANUFACTURED WOOD BEAMS AND COLUMNS.
7. PRESSURE TREATED LUMBER SHALL BE USED WHERE INDICATED ON PLANS IN ALL EXTERIOR APPLICATIONS AND IN APPLICATIONS WHERE THE LUMBER IS IN CONTACT WITH THE GROUND. PRESSURE TREATED LUMBER SHALL BE SOUTHERN YELLOW PINE NO. 1 GRADE. LUMBER SHALL BE TREATED WITH ALKALINE COPPER QUAT (ACQ) OR COPPER AZOLE (CBA) PRESERVATIVE.
8. FRAMING CONNECTORS AND FASTENERS FOR USE WITH PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL; ALTERNATIVELY, BATCH/POST HOT-DIPPED GALVANIZED FASTENERS (ASTM A153) AND FRAMING CONNECTORS (ASTM A123) SHALL BE USED.
9. ALL NAILING IS TO BE IN ACCORDANCE WITH THE 2009 / 2012 INTERNATIONAL BUILDING CODE WOOD FASTENING SCHEDULE, TABLE 2304.9.1, UNLESS NOTED OTHERWISE.
10. ALL WOOD CONNECTORS ARE TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS WITH THE MAXIMUM NUMBER AND SIZE OF NAILS.
11. ALL MULTI-MEMBER BEAMS AND HEADERS SHALL BE GLUED & NAILED TOGETHER WITH (3) ROWS OF 16D NAILS @ 12" O.C.. NAIL BOTH SIDES OF ALL 3-PLY MEMBERS.
13. ALL EXTERIOR & LOAD BEARING WALLS SHALL HAVE 2X HORIZONTAL BLOCKING @ HORIZONTAL PANEL JOINTS..
15. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATIONS, LATEST EDITION. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.
18. ALL CONNECTORS SHALL BE BY SIMPSON STRONG-TIE - NO EXCEPTIONS.

PLYWOOD SHEATHING REQUIREMENTS:

1. ALL EXTERIOR WALLS AND INTERIOR LOAD-BEARING STUD WALLS SHALL BE SHEATHED WITH 5/8" APA RATED STRUCTURAL I ALONG OUTSIDE FACE OF STUD WALL FOR FULL HEIGHT OF WALL. ATTACH PANELS TO STUD WALL WITH 10D COMMON NAILS @ 4" O.C. ALONG PANEL EDGES AND 8" O.C. AT INTERMEDIATE STUDS, U.N.O.
2. AT DOUBLE END TRUSSES, USE 5/8" THICK STRUCTURAL 1 APA RATED SHEATHING AS PER DETAIL 1 / S401. NAIL TO TRUSSES WITH 10d NAILS AT 4" O.C. AT PERIMETER AND 8" O.C. IN FIELD TYP.
3. ROOF SHEATHING: 5/8" APA RATED PANEL SYSTEM SHEATHING (40/20) WITH EXPOSURE 1 CLASSIFICATION WITH 2X4 FLAT BLOCKING AT ALL JOINTS. ATTACH SHEATHING TO TRUSSES/RAFTERS WITH 10d COMMON NAILS @ 4" o.c. ALONG PANEL EDGES AND 8" o.c. AT INTERMEDIATE TRUSSES/RAFTERS.
4. PLYWOOD SHEATHING AT FLAT ROOF (REAR PLATFORM) SHALL BE 23/32" OR 3/4" THICK APA RATED PLYWOOD, C (PLUGGED)-D EXPOSURE I 16" O.C. SPAN RATING. PROVIDE TONGUE AND GROOVE JOINTS AND PROVIDE BLOCKING AT ALL UNSUPPORTED EDGES. FASTEN PLYWOOD SHEATHING AT FLAT ROOF TO EACH SUPPORTING TRUSS WITH 10D (3") SPACED AT 4" O.C. ALONG PANEL EDGES AND 6" O.C. SPACING IN THE PANEL FIELD.
5. HORIZONTAL PLYWOOD DIAPHRAGM AT TRUSS BOTTOM CHORD SHALL BE 48/24 SHEATHING MIN. 15/32" THICK PANELS ORIENTED W/LONG DIMENSION PARALLEL TO SUPPORTING JOISTS/TRUSSES BLOCKED AT PANEL EDGES. NAIL SPACING: 6" AT EDGES, 12" IN FIELD

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DESIGN CRITERIA, GENERAL, AND MATERIAL NOTES CONT.

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