SECTION 06100

ROUGH CARPENTRY

PART 1 - GENERAL

1.01 SUMMARY

A. This Section specifies the construction of all rough carpentry and related items including lumber, plywood, wood framing and assemblies, backing panels, blocking, furring, supports, miscellaneous lumber, fasteners, anchors, wood preservative and fire retardant treatment, finishing and painting.

B. Contractor shall provide all labor, materials, equipment, and services necessary to design, furnish, deliver, and install all lumber products and related items required for the work as indicated on the Drawings, in accordance with local codes and standards, or as specified herein. This work shall include but not be limited to designing, furnishing, framing, reinforcing, support of other work, pressure treating, fastening, anchoring, testing, cutting, fitting, cleaning, finishing and painting.

C. Coordinate delivery with other work to avoid delay. All work shall be coordinated with other sections.

1. Related Sections:
   a. Section 06402, "Interior Architectural Casework"
   b. Section 06410, "Custom Cabinets"

1.02 SUBMITTALS

A. Submittals shall be provided in accordance with Sections 01330.

B. Product Data: For each type of lumber, anchorage, fastener, wood preservative, fire retardant treatment, and all other products indicated.

C. Shop drawings shall clearly show layout, designation, number, type, dimensions, location, fasteners and materials required.

D. Furnish the Architect with a certificate of inspection from the mill supplying dimension lumber stating that the lumber conforms to the grade specified according to standards set by the WWPA.

1. Each piece of lumber shall have an approved WWPA grade identification stamps as identified in current edition of Grading Rules for Western Lumber.
2. Regardless of grade stamp or certification, each piece of lumber in place in the structure shall be of the original grade specified, or better; grade loss resulting from weathering, handling, storage, re-sawing, or dividing length, may be cause for rejection.

E. Material certificates for each type of product indicated. Include statements of material properties indicating compliance with requirements, standards, and type designations within standards.

1. For dimension lumber specified, to comply with minimum allowable unit stresses.
2. Indicate species and grade selected for each use and design values approved by the American Lumber Standards Committee Board of Review.

F. Field quality control test and inspection reports.

G. Research and evaluation Reports, showing compliance with building codes in effect for the project.

H. Substitutions shall be requested in accordance with Sections 01630.

1.03 QUALITY ASSURANCE

A. Installer Qualifications: Experience in performing work of this section, specializing in installation of work similar to that required for this project, employing workers who are skilled in this area of work, and whose projects have a record of successful in-service performance.

B. Manufacturers shall meet the industry standards and codes for the materials identified on the Drawings and in the Specifications herein, specifically UL and FM requirements for fire retardants.

C. Certification: Product certificates signed by manufacturer, certifying materials comply with specified performance characteristics, criteria, and physical requirements.

D. Manufacturer's instructions for installation shall be delivered and stored with the materials.

E. Testing: As required by the latest industry codes and standards.

F. Tolerances shall conform to industry codes and standards, except as otherwise noted.

G. Warranty:

1. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.
2. Warranty Period: two (2) years commencing on Date of Certificate of Occupancy.
3. Additional requirements for product warranties are included in Section 01788.

1.04 DELIVERY, STORAGE AND HANDLING

A. Carefully store all lumber delivered to the site off the ground in a manner to assure proper drainage, ventilation and protection from the weather.

B. Keep carpentry materials dry during delivery.

1. Store lumber and plywood in stacks.
2. Protect bottom of stacks against contact with damp or wet surfaces.
3. Protect exposed materials against weather.
4. Do not store dressed or treated lumber or plywood outdoors.

C. Store materials for which a maximum moisture content is specified, only in areas where relative humidity has been reduced to a level where specified moisture content can be maintained.

D. Transport and handle all materials in such a manner as to prevent damage.

E. Dumping on the ground is not permitted.

F. Locate materials away from heavy and unnecessary traffic.

G. Furnish temporary protection for all exposed corners and edges.

H. Deliver all packaged materials in original, unopened, undamaged containers, with identification labels intact, and bearing the name of the manufacturer and brand.

I. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

J. Store and protect materials from exposure to harmful weather conditions, and at temperature and humidity conditions recommended by manufacturer. Store mortar, grout, and other moisture-sensitive materials off the ground, under cover, and in a dry location. Additional requirements for product delivery, storage and handling are in Section 01600.

1.05 GENERAL PROJECT CONDITIONS

A. Lumber: Provide lumber in compliance with the "American Softwood Lumber Standard", PS 20, by the U.S. Department of Commerce.

1. Nominal sizes are indicated on the drawings or specified herein.
2. Provide actual sizes complying with the minimum size requirements of PS 20 for the moisture content specified for each use.
3. All lumber is to be S-Dry.

B. Plywood: Provide plywood in accordance with the requirements of the U.S. Product Standard PS 1, for "Softwood Plywood/Construction and Industrial", except as otherwise specified herein.

1. Provide plywood of any PS 1 species classification group, except where particular species is indicated on the Drawings, Specified, or where PS 1 limits groups for particular grade specified.

C. Coordination: Obtain measurements, verify dimensions shown, and shop drawing details, before proceeding with carpentry work whenever possible.

D. Correlate location of furring, nailers, blocking, grounds, and similar supports, so that attached work will comply with design requirements.

E. Fit carpentry work to other work. Scribe and cope as required for accurate fit.

F. Time delivery and installation of carpentry work to avoid delaying other trades whose work is dependent on or affected by the carpentry work and to comply with protection and storage requirements.

G. Examine all parts of the supporting structure and the conditions under which the carpentry work is to be installed, and notify the Architect in writing of any conditions detrimental to the proper and timely completion of the work.

PART 2 - PRODUCTS

2.01 WOOD PRODUCTS

A. Framing Lumber: All framing lumber shall be Douglas Fir values as indicated on the Drawings.

B. Provide Plywood as indicated on the Drawings. Oriented strand board may be submitted as a substitute and must be approved by projects LEED consultants and Architects.

C. Plywood: 1/2", 5/8", 3/4", CDX 5-PLY, 48" X 96", or as indicated on the Drawings.

1. Comply with the requirements of U.S. Product Standard PS 1 for "Softwood Plywood/Construction and Industrial" except as otherwise specified herein.

D. *In accordance with local codes and standards.*

E. Miscellaneous Lumber: Provide wood for support or attachment of other work such as cant strips, bucks, nailers, blocking, furring, grounds, stripping and similar members.

1. Provide lumber of the sizes indicated on the Drawings, or specified, worked to shapes shown, and as follows:
   a. Moisture Content: 19% maximum for all lumber.
   b. Grade: Provide construction grade boards (WCLIB) or No. 2 or better boards (WWPA).
   c. Concealed plywood: Interior standard grade, interior type.
   d. Backing panels for electrical or telephone equipment: Standard grade interior type plywood with exterior glue.

2.02 ANCHORAGE AND FASTENING MATERIALS

A. Select proper type, size, material and finish for each application.

B. Where rough carpentry is exposed to weather, in ground contact, or in areas of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153; steel bolts complying with ASTM A307, Grade A; and steel nuts and washers as required complying with ASTM A 563.

C. Metal framing anchors shall be made from hot-dip, zinc-coated steel sheet complying with ASTM A653 coating designation.

D. Materials not included in the above categories shall be provided in accordance with the following requirements:

1. Nails and Staples: FS FF-N-105
2. Wood Screws: ANSI B.18.6.1
3. Bolts, hexagon and square: ANSI B-18-2.1.
4. Bolts, round head: ANSI B-18.5
5. Nuts: FS FF-N-836
6. Washers: FS FF-W-92
7. Lag Screws or Lag Bolts: FS FF-B-561
8. Expansion Shields, Expansion Nails and Drive Screw Devices: FS FF-B-561
9. Toggle Bolts: FS FF-B-588.
10. Bar or strap Anchors: ASTM A525 size coated steel, 18-gauge minimum.
11. Metal Framing Connectors: Teco, Simpson or Kant Sag.

E. Allowable design loads: Meet or exceed those indicated per manufacturer's published values determined from empirical data or by rational engineering analysis, and demonstrated by comprehensive testing performed by a qualified independent testing agency.

2.03 WOOD PRESERVATIVE TREATMENT

A. Treat wood, including lumber and plywood, as specified herein to be treated, to comply with the applicable requirements of the AWPA. All treated wood shown on the drawings shall be Grade No. 1 or better lumber.

B. Pressure treat the following items with water borne preservatives for aboveground use, complying with the requirements of AWPA C2 (lumber)

1. Wood cants, nailers, blocking, stripping and similar members in connection with roofing, flashing, vapor barriers and waterproofing (except plywood sheathing).
2. Wood sills, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete or below grade. Foundation Grade redwood, grade marked, is acceptable for wood sills in lieu of treated lumber.

2.04 FIRE RETARDANT TREATMENT

A. For all wood members required by code to be fire retardant treated, comply with AWPA requirements and provide pressure impregnation with Dricon fire retardant chemicals, in accordance with the recommendations and quality control of Koppers Co., Inc. to provide a UL RFS Fire Hazard classification.

B. All wood shall be identified with a UL label certifying this classification and the FM diamond.

PART 3 - INSTALLATION

3.01 GENERAL

A. Use only sound, thoroughly seasoned, well manufactured materials of the longest practical lengths and sizes to minimize jointing.

B. Use materials free from warp, which cannot be easily corrected by anchoring and attachment.

1. Sort out and discard warped material and material with other defects, which would impair the quality of the work.

C. Securely attach carpentry work to substrates by anchoring and fastening as indicated on the drawings, and as required by applicable codes and standards.

1. Provide washers under bolt heads and nuts in contact with wood.

D. Nail plywood to comply with AWPA recommendations.

E. Set carpentry work accurately to required levels and lines with members plumb and true and accurately cut and fitted.

F. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit.

G. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

H. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated.

I. Shim with metal or slate for full bearing on concrete or masonry substrates.

3.02 ATTACHMENT AND ANCHORAGE

A. Use common wire nails, except as otherwise shown or specified herein.

B. Do not wax or lubricate fasteners that depend on friction for holding power.

C. Select fasteners of size that will not penetrate members where opposite side will be exposed to view or will receive finish materials.

D. Make tight connections between members.

E. Install fasteners without splitting wood. Pre-drill holes as required.

F. Do not drive threaded friction type fasteners. Turn into place.

G. Tighten bolts and lag screws at installation, and retighten as required for tight connections prior to closing in or at completion of work.

H. Counter sink nail heads on exposed carpentry work and fill holes, use finishing nails for finish work.

3.03 WOOD FRAMING INSTALLATION

A. Nail or spike members should be common nails in accordance with code requirements.

B. All framing 16" o.c. unless otherwise noted.

C. Cut framing square on bearings, closely fit, accurately set to required lines and levels.

D. Secure rigidly in place at bearings and connections.

E. Do not use shims for leveling on wood or metal bearings.

F. Use steel shims with full bearing on masonry or concrete substrates.

G. Frame members for passage of pipes and ducts to avoid cutting structural members.

H. Do not cut, notch or bore framing members for passage of pipes or conduits without Architect's permission.

I. Reinforce framing members as directed where damaged by cutting.

J. Provide Simpson NS nail stoppers over utilities that penetrate framing members, nailing with 8d nails.

3.04 WOOD GROUNDS, NAILERS, AND BLOCKING

A. Provide as indicated on the drawings, and where required for screeding or attachment of other work.

B. Form to shapes as indicated on the drawings, and cut as required for true line and level of work to be attached.

C. Provide solid wood backing and wood blocking inside stud wall construction for all wall mounted equipment and accessories, especially at toilet rooms.

D. Coordinate location with other work involved; refer to shop drawings of such work.

E. Attach to substrates securely with anchor bolts and other attachment devices as indicated on the drawings, and as required to support applied loading.

F. Countersink bolts and nuts flush with surfaces, unless otherwise shown.

G. Set true to line, level, and plumb, with intersections true to required angle.

H. Build into masonry as work progresses, cutting to fit masonry unit size involved.

I. Anchor to formwork before concrete placement.

J. Blocking is required at all locations whereas there is wall mounted equipment.

K. Blocking is required at all areas of back room whereas there is gypsum board drywall 4'-0" AFF or below.

L. Provide grounds of dressed, preservative treated, key-beveled lumber, not less than 1-1/2" wide and of the thickness required to bring face of ground to exact thickness of finish material involved.

1. Remove temporary grounds when no longer required.

3.05 WOOD FURRING:

A. Install plumb and level with closure strips at all edges and openings.

B. Shim with wood as required.

3.06 PROTECTION

A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION 06100

SECTION 06163

GYPSUM SHEATHING

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section includes the following:

1. Exterior gypsum wall sheathing, roof sheathing, fasteners, and accessories.

B. Related Sections:

1. Gypsum board is specified in Section 09250.

1.02 SUBMITTALS

A. Product Data: Manufacturer's descriptive literature indicating material composition, thickness, size and fire resistance. Include manufacturer's certification that gypsum sheathing complies with specified fire-resistance requirements.

1. Recycled Content: Furnish product data on post-consumer recycled content and post-industrial recycled content as a percentage of the full product composite.

2. Regional Materials: Furnish product data or letter stating the location (closest city, state) where product was manufactured (final processing or assembly) and, if available, the location where raw materials were harvested, extracted or recovered (mine, quarry, plantation, forest, recycling recovery center, etc.).

B. Shop Drawings: Show fastener patterns and installation details.

1.03 QUALITY ASSURANCE

A. Fire Resistance Ratings: Gypsum sheathing shall have a flame spread of 0 and smoke developed of 0 when tested in accordance with ASTM E84 and be non-combustible when tested in accordance with ASTM D136.

B. Gypsum sheathing shall comply with ICC ES Legacy Report NER-574.

C. Gypsum sheathing shear panels shall comply with ICC ES Legacy Report ER-5762.

D. Gypsum sheathing shall be manufactured to conform to the physical requirements of ASTM C79 for gypsum sheathing board and shall have the following performance characteristics.

	½" Thick Sheathing	5/8" Thick Type X Sheathing
Thickness	½" +/- 1/32"	5/8" +/- 1/32"
Weight, lbs/m sq. ft.	1900	2500
Width, nom.	4-ft. +/- 1/8"	4-ft. +/- 1/8"
Length, std.	8-ft.; 10-ft., +/- ¼"	8-ft.; 10-ft., +/- ¼"
Edges	Square	Square
Core	Water Resistant	Water Resistant
Permeance, ASTM E96	23.1 Perms	12.4 Perms

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Each bundle or package of sheathing shall bear the manufacturer's name and/or trademark, the NES logo and evaluation report number (NER-574) for field identification.

B. Keep materials under cover and dry. Protect against exposure to weather and contact with wet or damp surfaces.

C. Stack gypsum sheathing and provide for air circulation within and around stacks and under temporary coverings.

PART 2 - PRODUCTS

2.01 GYPSUM SHEATHING

A. Gypsum Wall Sheathing: Georgia Pacific "Dens-Glass Exterior Guard Gold" or approved equal (no known equal) panel with glass mat faced water-resistant treated core, 5/8-inch thick unless otherwise indicated, complying with ASTM C1177.

1. Gypsum wall sheathing shall be resistant to mold and mildew when tested in accordance with ASTM D3273.

2. Where indicated for fire-rated walls, provide Georgia Pacific "Dens-Glass Gold Fireguard" or approved equal glass mat faced water-resistant treated core panel, 5/8-inch thick, with Type X rating as defined in ASTM C1396.

B. Gypsum Roof Sheathing: Georgia Pacific "Dens-Deck Roof Board" or approved equal (no known equal) glass mat faced silicone-treated gypsum core panel, 1/4-inch thick.

C. Fire Resistance:

1. Noncombustible when tested in accordance with ASTM E136.

2. Flame spread 10, smoke developed 0, when tested in accordance with ASTM E84.

D. When tested in accordance with ASTM E119, 1/2-inch thick sheathing demonstrated that it met the code requirements for use as a 15-minute thermal barrier for protecting foam plastics which might be installed as a part of an exterior wall covering assembly.

E. When Tested in accordance with ASTM E119, 5/8-inch sheathing applied to a partition in a single-layer nail application on each face of load-bearing wood framing members provided a one-hour fire resistance, qualifying it for the "Type X" designation of ASTM C79.

2.02 MISCELLANEOUS MATERIALS

A. Fasteners: Provide bugle or wafer head, self-tapping, corrosion-resistant, fine thread fasteners as recommended by gypsum sheathing manufacturer. Fasteners shall have a minimum 2,000-hour resistance to salt spray when tested in accordance with ASTM B117.

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

A. Cut and fit gypsum sheathing accurately. Install members plumb and true to line and level.

B. Securely attach to substrate by anchoring and fastening as indicated and required.

C. Use fasteners of appropriate type and length.

3.02 GYPSUM WALL SHEATHING

A. Provide gypsum board sheathing where indicated.

B. Fasten to exterior face of stud framing for exterior walls in accordance with manufacturer's instructions, applicable instructions in GA-253 and ASTM C1280, and ICC ES Legacy Report NER-574.

C. Use maximum lengths possible to minimize number of joints.

D. Fasten with screws of appropriate type and length.

E. Attach sheathing to metal framing with screws spaced 8-inches o.c. at perimeter where there are framing supports and 8-inches o.c. along intermediate framing in field.

F. Drive fasteners to bear tight against and flush with surface of sheathing. Do not counter sink.

G. Locate fasteners minimum 3/8-inch from edges and ends of sheathing panels, tight against and flush with surface of sheathing.

H. For transverse wind load resistance, comply with the requirements specified in ICC ES Legacy Report NER-574.

3.03 GYPSUM ROOF SHEATHING

A. General: Install in accordance with manufacturer's instructions using fasteners in accordance with FM requirements for I-60 wind uplift.

B. Stagger end joints of adjacent boards and offset joints from plywood roof sheathing below.

END OF SECTION

SECTION 03300

WOOD TRUSSESS – WOOD TRUSS JOISTS

PART 1 - GENERAL

1.01 SUMMARY

A. This Section specifies the construction of all wood trusses, wood truss joists (collectively called trusses) and related items including truss accessories, coatings, fasteners, testing, and finishing.

B. Contractor shall provide all labor, materials, equipment, and services necessary to install and deliver all wood trusses, related hardware, and metal shapes required for assembly and erection, as indicated on the Drawings, in accordance with local codes and standards, or as specified herein. This work shall include but not be limited to cutting, gluing, fitting, drilling, sealing, welding, reinforcing, support of other work, testing, protecting, cleaning and painting.

C. During the entire construction period, provide means for adequate distribution of concentrated loads so that the carrying capacity of any one truss and/or other component is not exceeded.

D. Coordinate delivery with other work to avoid delay. All work shall be coordinated with other sections.

1. Related Sections: 06100, Rough Carpentry"

1.02 SUBMITTALS

A. Submittals shall be provided in accordance with Sections 01330.

B. Product Data: For each type of chord, flange member, adhesive, fastener, and coating.

C. Shop Drawings:

1. Clearly show layout, truss designs, metal connectors, gauges, sizes, name of manufacturer, lumber specifications, pitch, span and spacing of trusses; design loadings and allowable unit stress increase, if any, size and location of all; truss supports; camber, if any, permanent bracing and/or bridging; handling and erection instructions.
2. Submit ICC-ES research recommendation report on trusses along with shop drawings.

D. Show fabrication and installation details for trusses.

1. Show configuration, and indicate sizes, stress grades, and species of lumber.
2. Indicate locations of permanent bracing required to prevent buckling of individual truss members due to design loads.
3. Show splice details and bearing details.
4. For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

E. Material certificates for each type of product indicated. Include statements of material properties indicating compliance with requirements, standards, and type designations within standards. Include material and mill test reports, substantiating compliance with requirements.

F. Welding Certificates.

G. Field quality control test and inspection reports.

H. Qualification data for manufacturer, fabricator, and installer.

I. Show compliance with building codes in effect for truss accessories.

J. No Substitutions.

1.03 QUALITY ASSURANCE

A. Installer Qualifications: Experience in performing work of this section, specializing in installation of work similar to that required for this project, employing workers who are skilled in this area of work, and whose projects have a record of successful in-service performance.

B. Manufacturers shall meet the industry standards and codes for the materials identified on the Drawings and in the Specifications herein.

1. Truss design and construction shall comply with provisions of applicable building codes.

C. Certification: Product certificates signed by manufacturer, certifying materials comply with specified performance characteristics, criteria, and physical requirements.

1. The design and fabrication of all wood trusses shall meet or exceed the requirements of
   a. "National Design Specifications for Stress-grade Lumber and its Fastenings" by NFPA,
   b. "Timber Construction Standards" by AITC
   c. Truss joists shall be manufactured under supervision of an approved third party inspection agency.
   d. National Design Specifications for Wood Construction" and Supplement, AF&PA

D. Manufacturer's instructions for installation shall be delivered and stored with the materials.

1. Each truss joist shall be identified by stamp indicating the joist series, ICC evaluation report number. Manufacturers name, plant number, and the independent inspection agency's logo.

E. Testing: As required by the latest industry codes and standards conforming to ASTM D-5055.

F. Tolerances shall conform to industry codes and standards, except as otherwise noted.

G. Warranty:

1. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.
2. Warranty Period: two (2) years commencing on Date of Certificate of Occupancy.
3. Additional requirements for product warranties are included in Section 01788.

1.04 DELIVERY, STORAGE AND HANDLING

A. Handle fabricated trusses and sub-assemblies with care, so that they are not subject to damage.

B. If the trusses are to be stockpiled or stored prior to erection, they shall be set in vertical positions, resting upon temporary bearing supports, and braced so they will be subject to no unusual bending or tipping over.

C. Transport and handle all materials in such a manner as to prevent damage.

D. Dumping on the ground is not permitted.

E. Locate stacks, or bins to avoid or protect material from heavy and unnecessary traffic.

F. Furnish temporary protection for all exposed corners and edges.

G. Deliver all packaged materials in original, unopened, undamaged containers, with identification labels intact, and bearing the name of the manufacturer and brand.

H. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

I. Store and protect materials from exposure to harmful weather conditions, and at temperature and humidity conditions recommended by manufacturer. Store mortar, grout, and other moisture-sensitive materials off the ground, under cover, and in a dry location. Additional requirements for product delivery, storage and handling are in Section 01600.

J. Notify truss joist representative prior to enclosing joists to review installation.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Wood trusses identified in this section are as provided by Trus Joist, ICC-ES Report No. ESR – 1153.

PART 3 - INSTALLATION

3.01 GENERAL

A. Install trusses as required in the manufacturer's written recommendations, in accordance with local codes and standards, and as indicated on the Drawings.

B. Install proper erection bracing to hold the trusses true and plumb, and in a safe condition, until permanent truss bracing and bridging can be solidly nailed in place to form a structurally sound roof framing system.

1. All erection and permanent bracing shall be installed and all components permanently fastened before the application of any loads, except the weight of the erectors.
2. Hoist trusses in place by lifting equipment suited to sizes and types of trusses required, exercising care not to damage truss members or joints by out-of-plane bending or other causes.
3. During erection, exercise care to keep horizontal bending of the trusses to a minimum.
4. Install and brace trusses according to Trus Joist plans, specifications and installation recommendation as indicated on the drawings.
5. Anchor trusses securely at bearing points; use metal truss tie-downs or floor truss hangers as applicable.

C. Securely connect each truss ply required for forming built-up girder trusses.

D. Install and fasten permanent bracing during truss erection and before construction loads are applied. Anchor ends of permanent bracing where terminating at walls or beams.

1. Install bracing to comply with Division 6, Section Rough Carpentry.

E. Trusses shall have a continuous line of bridging connected to each truss at the chord member during erection stage.

F. Erect trusses with the top and bottom chords in true vertical alignment.

1. Align top chords of trusses parallel to each other and straight with no point in the plane on the top chords more than 1/8" out of true horizontal.

G. Do not cut or remove truss members.

H. Replace wood trusses that are damaged or do not meet requirements.

END OF SECTION 06176