WOOD FRAMING AND GENERAL CONSTRUCTION NOTES

1. Final design of pre fabricated wood trusses and engineered wood products shall be by vendor. Submit engineering analysis, shop drawings and specifications certified by licensed Engineer for approval. Conform to design parameters described herein and on Plans. Comply with all applicable codes. Member size and spacing shown on plans are to establish design intent and to facilitate co-ordination and interface with other work. Such Architectural data shall be considered minimums. Actual member sizes required for structural adequacy may be larger. Refer to plans and details for project conditions and specific application criteria.

2. Roof structural components shall be designed for actual dead load and statutory live loads plus 5 lbs. per sq. ft. collateral loading. Design trusses for a deflection limit of L/360. Other roof structural elements shall be designed for a deflection limit of L/240 in open areas. Where adjoining other construction deflection limit shall be L/360. Over glazed openings limit deflection to L/480. **Live load reduction for tributary loading not permitted.** Beams, purlins, and rafters in open areas shall be cambered for dead load only; where adjoining other construction, no camber.

3. Structural vendors shall note locations of roof mounted equipment and;or attached elements and shall include allowances for dead, live and wind loads attributable thereto. Where equipment or attachments occur above roof, design reactions for 125% of statutory minimum wind speed. Obtain unit weight, effective area, moment arm, and recommended minimum reaction loading.

4. Truss Fabricator and/or engineered Wood Products vendor shall engineer and provide all required connectors for intersecting members and bearing condition other than load bearing wall conditions. Submit connector design with truss shop drawings.

5. All pre-engineered structural systems and components shall be designed to withstand wind and seismic forces applicable to zone wherein building is located. Provide engineering certification.

6. All structural design, fabrication and installation shall conform to applicable Building Code, local codes and industry standards.

7. Structural vendors shall field verify all dimensions before fabrication and coordinate design with HVAC, ductwork and other trades requiring passage clearances of imposing concentrated loading on structural elements.

8. For beams and girder trusses bearing on frame walls, provide solid bearing with full height un-spliced cripple studs under bearing ends. Door and window headers and

cripples shall comply with following minimum sizes unless specifically noted otherwise on plans:

FRAMED OPENING HEADER/CRIPPLE TABLE

	Minimum Header Size and No./Size of Cripple(s) at each end			
Wall Type	**Up to 4' span**	**Up to 8' span**	**Up to 12' span**	**Up to 16' span**
4" Interior Load Bearing	2-2x10 1-2x4	2-2x12 1-2x4	2-1 3/4"x12"LVL 2-2x4	2-1 3/4"x14"LVL 3-2x4
6" Interior Load Bearing	3-2x10 1-2x6	3-2x12 1-2x6	2-1 3/4"x12"LVL 2-2x6	3-1 3/4"x14"LVL 3-2x6
4" Interior non-Load Bearing	2-2x8 1-2x4	2-2x10 1-2x4	2-2x12 1-2x4	2- 1 3/4"x12"LVL 2-2x4
6" Interior non-Load Bearing	2-2x8 1-2x6	2-2x10 1-2x6	2-2x12 1-2x6	3-2x12 2-2x6
6" Exterior	3-2x8 1-2x6	3-2x10 1-2x6	3-2x12 2-2x6	3-1 3/4"x12"LVL 3-2x6

9. In areas of conventional roof framing, rafters shall be 2x8 at 24" o.c. unless otherwise noted.

10. Gypsum Board throughout building shall be 5/8" type "X" Fire Resistive.

11. All Interior walls are one hour fire rated wall construction and shall be constructed of one layer of 5/8" type "X" Gypsum Board applied to both sides of wall extending full height and width to outside wall or other one hour fire rated wall or ceiling construction. Studs shall be spaced 16"o.c. Comply with IBC Table 721.1, 14-1.3 for construction details.

12. Exterior walls are one hour fire rated wall construction rated from interior side only. Walls shall be constructed of one layer of 5/8" type "X" Gypsum Board applied to interior face of 2x6 wood studs spaced 16" o. c. with cavity filled with mineral wool fiber insulation. Outside face to be covered with 7/16" min. thick wood panels. Comply with IBC Table 721.1, 16-1.2 for construction details.

13. Ceilings are one hour fire rated construction and shall be constructed of **two layers** of 5/8" type "X" Gypsum Board applied directly to bottom chord of roof trusses or floor/ceiling joists spaced 24" o.c. Comply with IBC Table 721.1, 21-1.1 for construction details.

14. Wall sheathing and roof decking are integral parts of building structural bracing for wind and seismic loads. All exterior walls shall be sheathed with 19/32" OSB wood panels applied directly to wall framing spaced 16" o.c. Support all edges with solid framing or blocking. For 9' high walls, utilize 4'x9' panels oriented vertically. Tie to top and bottom plates continuously. Roof decking shall be 23/32" OSB panels applied directly to roof framing. Fasten sheathing/decking to framing as specified in Structural Notes on Sheet A-32 of Drawings.

15. Provide moisture barrier building wrap on walls and moisture barrier underlayment on roof decking.

16. Anchor exterior wall sill plates to concrete slab with 1/2" anchor bolt, nut and washer spaced 48" o.c. embedded 8" min. except Auditorium walls shall require 24" o.c. spacing.

17. Fasten wood rafters and/or trusses at all bearing points with anchorage as specified in Structural Notes on Sheet A-32. For special conditions, utilize specific anchor recommended by manufacturer for application. All connections are subject to approval of Architect/Engineer.

18. Entire building shall be constructed to provide 1 hour fire rating for all structural elements, bearing walls, columns, ceiling/floor and/or ceiling/roof construction.

19. For wet areas, provide moisture resistant gypsum board.

19. Provide continuous sound bats in walls at all corridors, restrooms, offices, mechanical equipment closets, classrooms and other walls scheduled or noted to receive "acoustical insulation".

End of Wood Frame Structural and General Construction Notes