GENERAL NOTES: Project: Colorado Orthopedic Clinic
Project No. 00202

DESIGN LIVE LOADS:
1. Roof..... 30 psf
2. Floors..... 50 psf
3. Basic Wind Speed..... 80 mph
4. Wind exposure..... C
5. Seismic Zone..... 1

GENERAL:
1. All construction shall comply with the 1997 edition of the Uniform Building Code (UBC) and UBC Standards.
2. Details not specifically shown shall be similar to details for similar construction shown on these drawings.
3. No structural members shall be cut, notched or otherwise penetrated unless specifically approved by the Engineer in advance or shown on the drawings.
4. Provide inspections in accordance with UBC Chapter 17 & Chapter 1, section 108.
5. Dimensions shown are approximate and are provided as an aid in interpreting the drawings and must be verified with the architectural drawings. In the event of conflict, dimensions shown on the architectural drawings shall govern. Scaled dimensions shall not be used.

STRUCTURAL ERECTION AND BRACING REQUIREMENTS:
1. The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced.
2. The contractor, in the proper sequence, shall provide shoring and bracing as is required during construction to achieve the final completed structure including any necessary design associated with bracing and shoring.
3. The contractor shall be responsible for the safety of the building and workers during construction. The contractor shall comply with all applicable safety regulations.

FIELD VERIFICATION:
1. The contractor shall thoroughly inspect and survey existing structure to verify dimensions, elevations, framing, etc., which affect the work shown on the drawings.
2. The contractor shall report any variations or discrepancies to the Architect and Engineer before proceeding with construction so that the design and associated drawings can be modified as required. The contractor shall include in his/her bid a contingency dollar amount sufficient to pay for any additional material, labor or any other costs associated with any redesign as required due to existing field conditions.

STRUCTURAL WOOD FRAMING:(Unless noted otherwise on the drawings.)
1. Except where noted on the drawings, all 2" lumber shall be Douglas Fir- Larch S4S No. 2 and better, and all solid timber beams and posts shall be Douglas Fir- Larch No. 1.
2. Studs shall be stud grade and better Douglas Fir- Larch.
3. Top and bottom plates shall be Douglas Fir-Larch No. 2 and better.
4. Provide solid blocking at supports for wood joists. Within floor joist spaces beneath solid or built-up columns noted on drawings, blocking of area equivalent to column above shall be provided.
5. Except as noted otherwise on the drawings, minimum nailing shall be provided as specified in Table No. 23-II-B-1 "Nailing Schedule" of the U.B.C., 1997 edition. Structural nailing shall be with common nails.
6. Steel connectors manufactured by Simpson Strong-Tie Company, San Leandro, CA., shall be used to join rafters, joists, or beams to other members at flush-framed conditions. Connector conditions not otherwise noted shall utilize Type U, Type IU or Type HU hangers of a size specifically designed for the member supported, as shown in the manufacturer's published tables. Install all connectors in accordance with the manufacturer's instructions for maximum rated loads.
7. Provide cross bridging, solid bridging or other lateral support for all framing members in accordance with the requirements of UBC Chapter 23.
8. Except where more stringent construction is shown on the drawings, wood construction shall comply with UBC Section 2320, Conventional Construction provisions, as a minimum.
9. Provide pressure treated lumber at locations where member is to be in contact with concrete, masonry or soil, U.N.O.

EXTERIOR WALL CONSTRUCTION: (Unless noted otherwise on the drawings.)
1. Provide ½" thick (minimum), APA rated sheathing, 24/16, exposure 1, at exterior face of exterior walls. Block all horizontal joints. Nail sheathing to framing members with 10d nails @ 6"o.c. at all panel edges, 12"o.c. at all intermediate supports, unless noted otherwise on the drawings.
2. All exterior wall studs are 2x6 studs @ 16"o.c. to a maximum height of 9'-0".
3. Provide (2) 1 3/4x11 7/8 M-L headers over all door and window openings.
4. Provide (1) 2x6 trim stud each side of each opening.
5. Provide multiple 2x6 king studs each side of each opening. Quantity of king studs each side of opening shall equal ½ of the total number of studs interrupted by the opening.

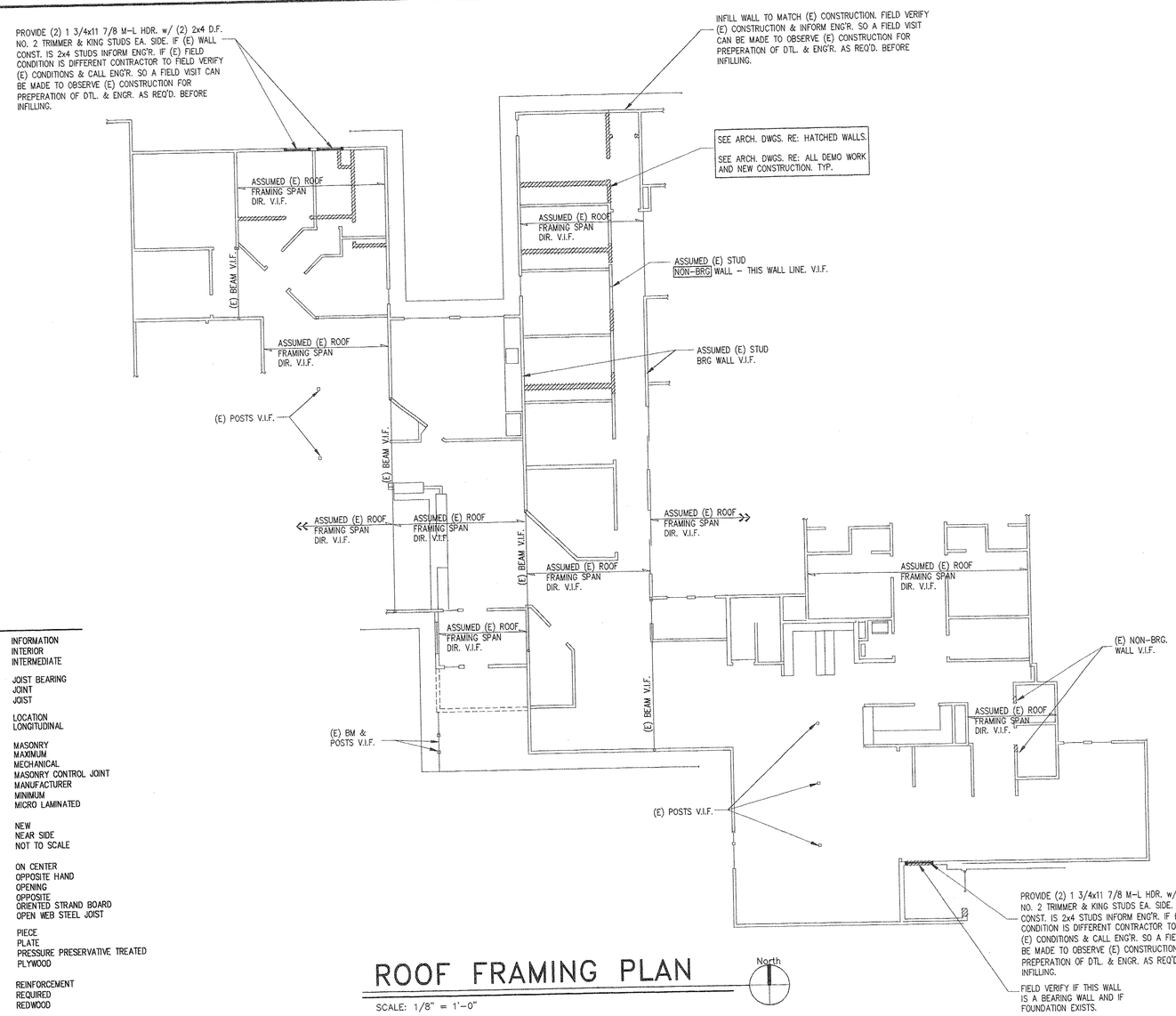
STRUCTURAL STEEL:
1. Structural steel members shall be ASTM A36. All bolts, including anchor bolts, shall be ASTM A307. All structural pipe columns shall be ASTM A501. All structural tube columns shall be ASTM A500, Grade B.
2. Adjustable pipe columns shall be designed by column supplier including, but not limited to screw jack, top plate and base plate.
3. Expansion bolts shall be Hilti - KBII wedge type expansion bolts with embedment as shown on the drawings.
4. All welding shall be done by a certified welder. Use E70XX electrodes.

MICRO LAMINATED BEAMS:
1. Micro- Lam beams shall be as manufactured by the Trus-Joist MacMillan Corporation, Boise, Idaho or approved equivalent. Minimum allowable design stresses are as follows:
   Flexural Stress (Fb)..... 2,600 psi
   Compression Perpendicular to Grain (Fc)..... 750 psi
   Horizontal Shear (Fv)..... 285 psi
   Modulus of Elasticity (E)..... 1,800,000 psi
2. Glue and nail multiple beams together per manufacturers requirements. (Use 3 rows of 16d @ 12" o.c. max each side.)

MASONRY:
1. Masonry construction shall conform to the provisions of the 1997 edition of the Uniform Building Code, Chapter 21 & UBC standards.
2. Hollow load-bearing concrete masonry units (normal wt.) shall be grade N, conforming to ASTM Standard C-90 (see architectural drawings for face type pattern).
3. Masonry compressive strength (f'm) shall be 1500 psi. minimum.
4. Mortar shall be Type M or S per UBC Standard 21-15. Admixtures shall not be added unless approved by the Architect. The use of masonry cement is not permitted. Prism strength shall be a minimum of 1800 psi. Contractor shall adjust mortar mix as required to attain a minimum prism strength of 1800 psi.
5. Grout used in masonry construction shall be course grout, and shall conform to UBC Table 21B and UBC Standard 21-19. Grout shall develop a minimum compressive strength of 2000 psi at 28 days. Consolidate grout per UBC Sec. 2104.6. Provide tests per UBC Standard 21-18. No high lift grouting allowed.
6. Reinforce all masonry walls with continuous horizontal 9-gage ladder reinforcing. Maximum vertical spacing of joint reinforcing shall be 16 inches.
7. All bolts, anchors and embedded items shall be grouted in place, unless otherwise noted on the drawings. Anchor bolts shall have at least 1 inch of grout between the bolt and the masonry, and shall be headed or hooked per UBC Section 2106.2.14.1.
8. All masonry shall be installed utilizing low-lift grouted construction.
9. Units shall be laid in running (common) bond.
10. Masonry reinforcement shall comply with reinforcing steel notes, except that lap splices shall be 48 bar diameters. U.N.O. See sheets 1/S1 thru 3/S1 for reinforcing steel details. Use bar spacers to maintain proper bar position full height of wall.
11. Vertical control joints shall be provided full height of masonry walls as located on the drawings. The joint shall be provided as a continuous head joint with the mortar raked back 3/4" at both faces and 50% of the horizontal joint reinforcing cut at the joint. Bond beam reinforcing and grout shall continue through the joint. After the mortar is set the joint shall be caulked with a flexible mastic.
12. Fill all voids and cells within 16 inches either side of centerline of beam and/or column bearing locations with a #5 reinforcing bar each face and grout unless noted otherwise on the drawings.
13. Provide prism tests in accordance with UBC Section 2105 and UBC Standard 21-17.
14. Minimum prism strength of all masonry wall assemblies shall be f'm=1800 psi.

ABBREVIATIONS

A.B.	ANCHOR BOLT
ABV.	ABOVE
ADD'TL.	ADDITIONAL
ADJ.	ADJACENT
ALT.	ALTERNATE
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
BLDG.	BUILDING
BLKG.	BLOCKING
BLW.	BELOW
BM.	BEAM
BOT.	BOTTOM
B.O.	BOTTOM OF
B.S.	BOTH SIDES
BTWN.	BETWEEN
C.J.	CONSTRUCTION JOINT
C.L.	CENTER LINE
CLG.	CEILING
CLR.	CLEAR
CMU.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONN.	CONNECTION
CONT.	CONTINUOUS
C.P.	COMPLETE PENETRATION
CSK.	COUNTERSINK
CTR.	CENTER
DBL.	DOUBLE
DTL.	DETAIL
D.F.	DOUGLAS FIR
DIAG.	DIAGONAL
DIM.	DIMENSIONS
D.O.	DITTO
DWG.	DRAWING
DIA.	DIAMETER
(E)	EXISTING
EA.	EACH
E.F.	EACH FACE
E.J.	EXPANSION JOINT
ELEV.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.S.	EACH SIDE
EXT.	EXTERIOR
E.W.	EACH WAY
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FIN.	FINISH
FLR.	FLOOR
F.N.	FACE NAIL
FND.	FOUNDATION
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.S.	FAR SIDE
FTG.	FOOTING
GA.	GAGE
GALV.	GALVANIZED
G.L.	GRID LINE
GLB.	GLU-LAM BEAM
GYP. BD.	GYPSUM BOARD
HD.	HOLDOWN
HDR.	HEADER
HK.	HOOK
HORIZ.	HORIZONTAL
H.S.	HIGH STRENGTH
H.A.S.	HEADED ANCHOR STUD
INFO.	INFORMATION
INT.	INTERIOR
INTRM.	INTERMEDIATE
J.B.	JOIST BEARING
JT.	JOINT
JST.	JOIST
LCTN.	LOCATION
LONGIT.	LONGITUDINAL
MAS.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
MCJ	MASONRY CONTROL JOINT
MFR.	MANUFACTURER
MIN.	MINIMUM
M-L	MICRO LAMINATED
(N)	NEW
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.H.	OPPOSITE HAND
OPNG.	OPENING
OPP.	OPPOSITE
OSB.	ORIENTED STRAND BOARD
O.W.S.J	OPEN WEB STEEL JOIST
PC.	PIECE
PL.	PLATE
PPT.	PRESSURE PRESERVATIVE TREATED
P.W.	PLYWOOD
REINF.	REINFORCEMENT
REQ'D.	REQUIRED
RWD.	REDWOOD
SHTG.	SHEATHING
SIM.	SIMILAR
SQ.	SQUARE
STD.	STANDARD
STG'D.	STAGGERED
STIFF.	STIFFENER
STL.	STEEL
S.W.	SHEARWALL
SYM.	SYMMETRICAL
T&B.	TOP AND BOTTOM
T&G.	TONGUE AND GROOVE
THRU.	THROUGH
T.N.	TOE NAIL
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PAPRAPET
TRANS.	TRANSVERSE
TS.	TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
w/	WITH
W.P.	WORK POINT
WWF.	WELDED WIRE FABRIC
WD.	WOOD



ROOF FRAMING PLAN

North

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

PLAN NOTES:
1. FIELD VERIFICATION: THE CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY EXISTING STRUCTURE TO VERIFY DIMENSIONS, ELEVATIONS, FRAMING, ETC., WHICH AFFECT THE WORK SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REPORT ANY VARIATIONS OR DISCREPANCIES TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION SO THAT THE DESIGN AND ASSOCIATED DRAWINGS CAN BE MODIFIED AS REQUIRED. THE CONTRACTOR SHALL INCLUDE IN HIS/HER BID A CONTINGENCY DOLLAR AMOUNT SUFFICIENT TO PAY FOR ANY ADDITIONAL MATERIAL, LABOR OR ANY OTHER COSTS ASSOCIATED WITH ANY REDESIGN AS REQUIRED DUE TO EXISTING FIELD CONDITIONS.
2. SEE SHEET S1 FOR GENERAL NOTES.
3. SEE ARCHITECTURAL DRAWINGS FOR ALL ROOF SLOPES, CEILING SLOPES, AND ROOF OVERHANG.
4. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND TOP OF WALL PLATE HEIGHTS.
5. VERIFY ALL DIMENSIONS & WALL LOCS w/ ARCHITECTURAL DRAWINGS INCLUDING ARCHITECTURAL-DEMOLITION PLAN.
6. ▣ INDICATES BUILT UP POST. (2) 2x4 MIN NAILED TOGETHER w/ (2) 16d's @ 6" o.c. TYP, U.N.O.
7. ALL MICRO-LAMS SHALL HAVE A WIDTH DIMENSION OF 1 3/4" PER PLY.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL ASPECTS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, DIMENSIONS, WALL ELEVATIONS, HEAD CLEARANCES, BEAM DEPTHS & WIDTHS AS WELL AS POST SIZES WITH THE ARCHITECTURAL DRAWINGS FOR PROPER FIT BEFORE STARTING CONSTRUCTION. ENGINEER WILL NOT BE LIABLE FOR ANY ERRORS RESULTING FROM LACK OF COORDINATION OR REVIEW BY THE CONTRACTOR. CONTRACTOR MUST REVIEW AND COORDINATE ALL ASPECTS OF CONSTRUCTION WITH THESE DRAWINGS BEFORE STARTING CONSTRUCTION.
9. BEFORE REMOVING ANY EXISTING CONSTRUCTION FIELD VERIFY THAT EXISTING CONSTRUCTION DOES NOT SUPPORT ANY ROOF, CLG. OR WALL LOADS. DO NOT REMOVE ANY EXISTING CONSTRUCTION THAT WILL AFFECT THE STRUCTURAL INTEGRITY OF THE STRUCTURE.

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ARCH. PROJECT NO.:
DATE: 6/14/01

SHEET TITLE
GEN. NOTES
ROOF FRM'G
PLAN

SHEET NUMBER
S1