

DIMENSIONAL LUMBER

- MEET REQUIREMENTS OF PS 20-70 AND NATIONAL GRADING RULES FOR SOFTWOOD DIMENSIONAL LUMBER. BEAR STAMP OF WWPA.
- MINIMUM DIMENSIONAL LUMBER GRADES TO BE:
 WALL STUDS: 2x DF STUD GRADE
 WALL PLATES: 2x DF STANDARD GRADE
 JOISTS: 2x6 DF STUD GRADE
 2x8 AND UP HF #2
 BEAMS, HEADERS: 6x DF#2; 4x DF#2, WWPA GRADING.
 POSTS: 4x, 6x, DF #2 - U.N.O. PLANS
 LUMBER NOT NOTED TO BE DF #2.
- PROVIDE STANDARD CUT WASHERS FOR BOLT HEADS AND NUTS BEARING AGAINST WOOD.
- ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY, WHICH IS IN CONTACT WITH OR RESTING ON FOUNDATIONS, SHALL BE PRESSURE TREATED DOUGLAS FIR. ALL PLATES SHALL HAVE MINIMUM 3/4" ANCHOR BOLTS EMBEDDED 7" PLACE MAXIMUM 9" FROM THE END OF A PLATE AND SPACED AT INTERVALS SHOWN IN SCHEDULE (MAXIMUM 48" O.C. SPACING).
- BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER.
- NAILS: COMMON WIRE NAILS UBC TABLE 23-III-C-2. NAILING IN ACCORDANCE WITH UBC TABLE 23-II-B-1.

WOOD STRUCTURAL CONNECTIONS

- ALL FRAMING ANCHORS, POST CAPS, BASES, HANGERS, STRAPS, ETC., SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR ENGINEER APPROVED EQUAL.

WOOD TRUSSES

- SUBMIT SHOP DRAWINGS AND CALCULATIONS STAMPED, SIGNED AND DATED BY A NEVADA STATE LICENSED STRUCTURAL ENGINEER TO ENGINEER OF RECORD FOR REVIEW. SHOP DRAWINGS TO INCLUDE A COMPLETE SET OF TRUSS SPECIFICATION SHEETS WHICH SHOW ALL LOADS AND ARE CORRELATED TO THE ROOF LAYOUT PLANS. CALCULATIONS TO INCLUDE TRUSS END BEARING AND UPLIFT. TRUSS PLATES TO BE ICBO APPROVED. TOP CHORDS ARE TO BE DF #2 OR BETTER.
- INSTALL BRIDGING, WEB AND CHORD BRACING AND X BRACING REQUIRED BY THE TRUSS FABRICATOR AND TPI PUBLICATION "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS".
- BLOCKING: PROVIDE 2x4 FLAT BLOCKING AT 24" ON CENTER BETWEEN TRUSSES TO CARRY PARTITION WALLS WHERE PARALLEL TO TRUSSES. NAIL BLOCKING WITH (2) 16D EACH END.
- PROVIDE ADDITIONAL TRUSSES AS REQUIRED BY FABRICATOR TO CARRY ALL CONCENTRATED LOADS AND MECHANICAL UNITS. GENERAL CONTRACTOR IS TO PROVIDE LOCATIONS AND WEIGHTS TO TRUSS FABRICATOR. PROVIDE PLATFORM STRINGERS AS REQUIRED BY TRUSS FABRICATOR BETWEEN TRUSSES WHERE CONCENTRATED LOADS, MECHANICAL UNITS, AND SPRINKLER MAINS OCCUR. TRUSS FABRICATOR SHALL SPECIFY CONNECTION OF STRINGERS TO TRUSSES.
- TRUSS HANDLING: TEMPORARY SHORING AND BRACING OF TRUSSES DURING ERECTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- PRIOR TO FABRICATION OF TRUSSES, TWO COPIES OF THE FOLLOWING MATERIALS BEARING THE APPROVAL OF THE DESIGNER (IN THE FORM OF "SHOP DRAWING APPROVAL" OR SEPARATE LETTER) MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW: (1) TRUSS LAYOUT DRAWINGS; AND (2) TRUSS CALCULATIONS AND DETAILS SHOWING AXIAL AND BENDING STRESSES AND JOINT DESIGN, CLEARLY INDICATING THAT DESIGNS CONFORM TO THE 1997 UBC. INCLUDE TRUSS END BEARING AND UPLIFT.

WOOD SHEATHING

- REFERENCE STANDARDS: UBC STANDARD 23-2 OR 23-3.
- ROOF SHEATHING:
 15/32" MINIMUM THICKNESS APA RATED PRP-108 PERFORMANCE STANDARD. EDGE SEALED PANELS DESIGNED TO SPAN 24 INCHES EITHER PARALLEL OR PERPENDICULAR TO LONG AXIS OF PANEL WITH 25 PSF LIVE LOAD. LAY UP WITH MINIMUM 1/8" CLEAR BETWEEN PANELS TO ALLOW FOR EXPANSION. NAIL 6 INCHES ON CENTER ALONG EDGES, AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. USE 10D COMMON NAILS. U.N.O. PROVIDE EXP-1 RATING.
- SHEAR WALL SHEATHING:
 PLYWOOD OR OSB APA RATED PRP-108 PERFORMANCE STANDARD PER UBC STD 23-2 OR 23-3. USE EXTERIOR ADHESIVES. USE 8d COMMON NAILS. PROVIDE EXP-1 RATING. ALL VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER STUDS. HORIZONTAL JOINTS SHALL OCCUR OVER BLOCKING EQUAL IN SIZE TO THE STUDDING. REFER TO SHEAR WALL SCHEDULE FOR PANEL THICKNESS.

GLU-LAMINATED TIMBER

- GLU-LAMINATED WOOD BEAMS, DOUGLAS FIR COAST REGION, KILN DRIED, AITC SPECIFICATION 24F-V4 FOR SIMPLE SPANS, AND 24F-V8 FOR CANTILEVER-SPANS (F_b = 2400 PSI TENSION, TYPICAL). PROVIDE AITC STAMP ON TIMBER AND SUBMIT CERTIFICATE TO ARCHITECT AND ENGINEER. MATERIALS MUST BE OBTAINED FROM AN AITC APPROVED FABRICATOR. ALL GLU-LAM BEAMS SHALL FIT SNUG AND TIGHT IN THEIR CONNECTIONS AND DEVELOP FULL BEARING AS INDICATED. NO SUBSTITUTION OF OTHER SPECIES. GLU-LAM ADHESIVE TO BE "WET-USE" TYPE. PROVIDE 2000 FT RADIUS CAMBER, U.N.O.
- MANUFACTURER'S CERTIFICATE SHALL BE PRESENTED TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION.

SHOP DRAWINGS AND SUBMITTALS

- SUBMIT PRINTS AND REPRODUCIBLES FOR REVIEW PRIOR TO FABRICATION FOR:
 REINFORCING STEEL GLU-LAMINATED BEAMS
 STRUCTURAL STEEL WOOD TRUSSES
 MISCELLANEOUS STEEL
- SUBMIT 3 COPIES FOR REVIEW PRIOR TO FABRICATION FOR:
 CONCRETE DESIGN MIX
 CONCRETE INSERTS
 EPOXY ADHESIVES

ALTERNATES:

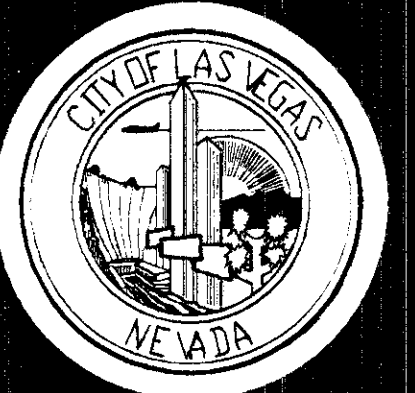
- ALTERNATE ASSEMBLIES AND MATERIALS WILL BE CONSIDERED FOR REVIEW. ENGINEER MAY REQUEST PAYMENT FOR REVIEW; CONTRACTOR OR OWNER WILL BEAR BURDEN FOR ADDITIONAL PAYMENT.

JOBSITE SAFETY:

- THE ENGINEER AND/OR ARCHITECT HAVE NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM HIS WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER SHALL NOT BE CONSTRUED AS SUPERVISION OF ACTUAL CONSTRUCTION NOR MAKE HIM RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR THEIR EMPLOYEES, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL, OR OCCUPANCY BY ANY PERSON.


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 CITY OF LAS VEGAS
 PERMITS

APPROVAL IS FOR CLOUDED AREAS OR LATEST REVISION. ONLY SEE ORIGINALS FOR OTHER REQUIREMENT.



REVISIONS: 5 03.14.03

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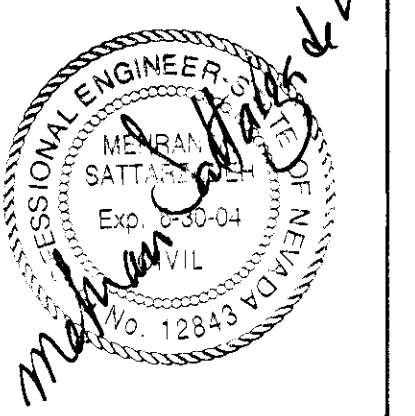
DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS WEST SERVICE YARD
 BUFFALO DRIVE AND PEAK ROAD
 LAS VEGAS, NEVADA
 STRUCTURAL NOTES

PROVIDED APPROVAL FOR CITY OF LAS VEGAS PERMITS

APPROVED FOR CITY OF LAS VEGAS PERMITS

LTE: APR 10 2003



OWNER: CITY OF LAS VEGAS
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