TABLE "A"
RAFTER SPANS
(DOUGLAS FIR #2 OR BETTER)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>SPACING</th>
<th>SPAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>2x4</td>
<td>12&quot; O.C.</td>
<td>9'-0&quot;</td>
</tr>
<tr>
<td></td>
<td>16&quot; O.C.</td>
<td>8'-11&quot;</td>
</tr>
<tr>
<td></td>
<td>24&quot; O.C.</td>
<td>7'-8&quot;</td>
</tr>
<tr>
<td></td>
<td>32&quot; O.C.</td>
<td>6'-3&quot;</td>
</tr>
<tr>
<td>2x6</td>
<td>12&quot; O.C.</td>
<td>15'-4&quot;</td>
</tr>
<tr>
<td></td>
<td>16&quot; O.C.</td>
<td>13'-9&quot;</td>
</tr>
<tr>
<td></td>
<td>24&quot; O.C.</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td></td>
<td>32&quot; O.C.</td>
<td>9'-7&quot;</td>
</tr>
<tr>
<td>2x8</td>
<td>12&quot; O.C.</td>
<td>20'-0&quot;</td>
</tr>
<tr>
<td></td>
<td>16&quot; O.C.</td>
<td>18'-2&quot;</td>
</tr>
<tr>
<td></td>
<td>24&quot; O.C.</td>
<td>14'-10&quot;</td>
</tr>
<tr>
<td></td>
<td>32&quot; O.C.</td>
<td>12'-8&quot;</td>
</tr>
<tr>
<td>2x10</td>
<td>12&quot; O.C.</td>
<td>20'-0&quot;</td>
</tr>
<tr>
<td></td>
<td>16&quot; O.C.</td>
<td>20'-0&quot;</td>
</tr>
<tr>
<td></td>
<td>24&quot; O.C.</td>
<td>18'-11&quot;</td>
</tr>
<tr>
<td></td>
<td>32&quot; O.C.</td>
<td>16'-2&quot;</td>
</tr>
</tbody>
</table>
| 4x4  | 24" O.C.  | 10'-0"
|      | 32" O.C.  | 9'-3"|
|      | 48" O.C.  | 7'-8"
| 4x6  | 24" O.C.  | 15'-11"|
|      | 32" O.C.  | 13'-9"|
|      | 48" O.C.  | 11'-3"|
| 4x8  | 24" O.C.  | 20'-0"|
|      | 32" O.C.  | 18'-2"|
|      | 48" O.C.  | 14'-10"

*This spacing and span is for lattice patio coverings only.

TABLE "B"
HEADER SIZE & SPANS
(DOUGLAS FIR #2 OR BETTER)

<table>
<thead>
<tr>
<th>RAFTER SPAN</th>
<th>HEADER SIZE</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP TO 12'-0&quot;</td>
<td>8'-0&quot; MAX</td>
<td>4x6</td>
</tr>
<tr>
<td>12'-1&quot; TO 20'-0&quot;</td>
<td>8'-0&quot; MAX</td>
<td>4x8</td>
</tr>
<tr>
<td></td>
<td>10'-0&quot; MAX</td>
<td>4x8</td>
</tr>
<tr>
<td></td>
<td>12'-0&quot; MAX</td>
<td>4x10</td>
</tr>
<tr>
<td></td>
<td>14'-0&quot; MAX</td>
<td>4x12</td>
</tr>
</tbody>
</table>

TABLE "C"
FOOTING SIZE

BASED ON 1000 P.S.F. SOIL BEARING PRESSURE.

<table>
<thead>
<tr>
<th>RAFTER SPAN</th>
<th>HEADER SIZE</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>8'-0&quot; MAX</td>
<td>18&quot; SQ. X 12&quot; DEEP</td>
<td></td>
</tr>
<tr>
<td>10'-0&quot; MAX</td>
<td>18&quot; SQ. X 12&quot; DEEP</td>
<td></td>
</tr>
<tr>
<td>12'-0&quot; MAX</td>
<td>18&quot; SQ. X 12&quot; DEEP</td>
<td></td>
</tr>
<tr>
<td>14'-0&quot; MAX</td>
<td>18&quot; SQ. X 12&quot; DEEP</td>
<td></td>
</tr>
</tbody>
</table>

TABLE "D"
LEDGER BOLTING

ALL LAG BOLTS SHALL HAVE 1/4" PRE-DRILLED HOLES - (SEE NOTE 2)

<table>
<thead>
<tr>
<th>DIA. X</th>
<th>LONG AT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>16&quot; O.C. STAGGERED</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>16&quot; O.C.</td>
</tr>
</tbody>
</table>

NOTES:
1. TWO 2X MEMBERS MAY BE SUBSTITUTED FOR ONE 4X HORIZONTAL FRAMING MEMBER.
2. LAG BOLTS MUST FULLY ENGAGE A WOOD STUD OR RIM JOIST AND BE PROVIDED WITH APPROPRIATE WASHERS. LAG BOLTS SHALL BE LOCATED A MINIMUM OF 1-1/2" FROM THE TOP OR BOTTOM OF THE LEDGER.
3. NOT DESIGNED TO BE ENCLOSED - ADDITIONAL ENGINEERING ANALYSIS WILL BE REQUIRED IF ENCLOSED.
4. SEE PAGE 2 OF 2 FOR CONSTRUCTION DETAILS.
5. ARTIFICIAL LIGHTING IS REQUIRED IN ROOMS THAT HAVE WINDOW OPENINGS INTO THE COVERED PATIO AREA IF THE TOTAL WINDOW AREA IN THAT ROOM IS LESS THAN 10% OF THE FLOOR AREA OF THE ROOM OR 20 SQUARE FEET, WHICHEVER IS GREATER.

DISCLAIMER:
ALTERNATE PATIO DESIGNS MAY BE POSSIBLE WHEN PROVIDED WITH AN ENGINEERED ANALYSIS. USE OF THIS CONVENTIONAL STANDARD DESIGN IS AT THE USER'S RISK AND CARRIES NO IMPLIED OR INFERRED GUARANTEE AGAINST FAILURE OR DEFECTS.
KNEE BRACE DETAIL AT END POSTS
(REQUIRED WHEN RAFTER SPAN EXCEEDS 12 FT)

OPTION 1

4x4 POST
MIN.)

OPTION 2

4x4 POST

NECKT
H 1-1/2''

TYPICAL)

SECTION A-A

LEDGER ATTACHMENT
DETAIL

EXISTING ROOF

LAG BOLTS
(SEE TABLE B)

EDGE NAIL
PLYWOOD AT 6''
O.C. AT LEDGER

RAFTER
APPROVED JOIST
HANGER

EXISTING STUDS

2X LEDGER

NOTES:
1. USE A CONTINUOUS 2X LEDGER – SAME DEPTH
   AS RAFTER OR LARGER
2. SEE TABLE “B” FOR BOLTING REQUIREMENTS

INVERTED HEADER DESIGN OPTION (LATTICE ONLY)

TWO 1/2'' DIA. THRU-BOLTS
(W/ WASHERS), PER
CONNECTION AS SHOWN

FOR HEADERS OR RAFTERS,
TWO 2X MEMBERS MAY BE
SUBSTITUTED FOR ONE 4X
MEMBER. SEE TABLES “A” &
“B” FOR SPAN LIMITS

NOTE: KNEE BRACING REQUIRED
WHEN RAFTER SPAN
EXCEEDS 12 FEET

2X FASCIA (OVERHANG) ATTACHMENT — LATTICE ONLY

OPTION 1

2X4 RAFTERS OR PRE-FAB. ROOF TRUSSES

2X4 LEDGER W/ 20D NAILS OR 1/4'' DIA. 4''
LONG LAG BOLTS Ø32'' O.C.
2X4 STRUT W/ (6) 8D TOENAILS
FROM STRUT TO LEDGER
@ 150 NAILS
A-35 OR EQUAL ANCHOR
2X FASCIA
APPROVED JOIST HANGER
PATIO RAFTERS
SEE TABLE “A”

30'' MAX
OVERHANG

PATIO RAFTER SPAN
LIMITED TO 8’ FOR LATTICE COVER

OPTION 2

2X6 OR LARGER RAFTERS

SIMPSON A-35 OR
EQUAL ANCHOR

2X FASCIA
APPROVED JOIST HANGER
PATIO RAFTERS
SEE TABLE “A”

30'' MAX
OVERHANG

PATIO RAFTER SPAN
LIMITED TO 8’ FOR LATTICE COVER

NOTE: VERIFY STRUCTURAL SOUNDNESS OF ROOF
RAFTERS FOR DECAY OR TERMITE DAMAGE,
AND REPLACE WITH LIKE MATERIALS AS
NEEDED, AFTER CONSULTATION WITH THE
BUILDING DEPARTMENT.

WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM

CITY OF LAKE ELsinore
BUILDING DEPARTMENT

PATIO COVER STANDARD

951-674-3124 Ext. 224
130 S. MAIN STREET, LAKE ELsinore, CA 92530

Fax: 951-471-1419

1/1/2008

PatioStd2008.vsd
PAGE 2 OF 2