

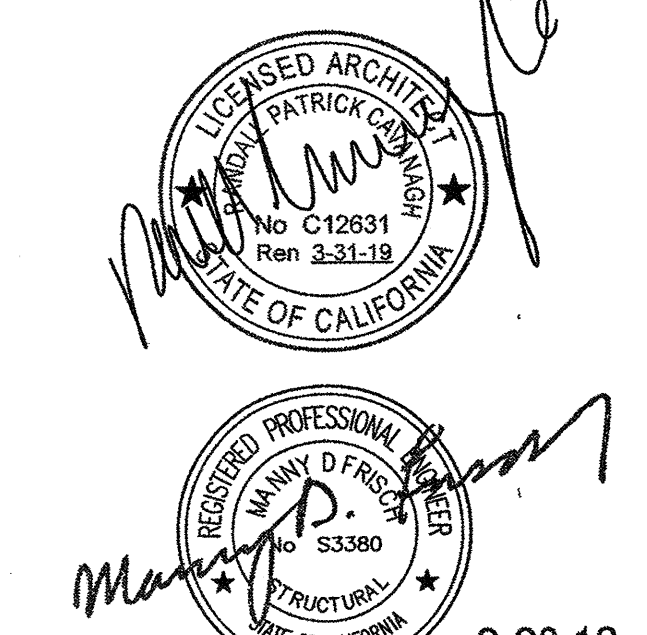
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PRE-CHECKED SET NAME  
**24'x40' THRU 120'x40' HIGH PITCH MODULAR BUILDINGS**

SITE SPECIFIC PROJECT NAME

SHEET TITLE  
**STEEL MEMBER PROPERTIES**

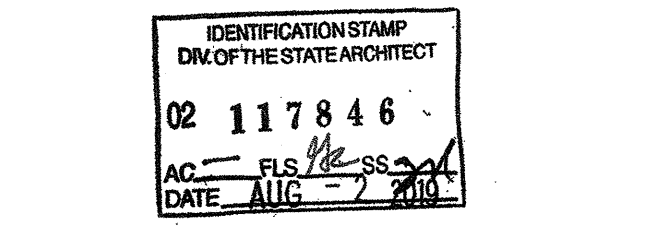
MANUFACTURER PROFESSIONAL OF RECORD ON PC



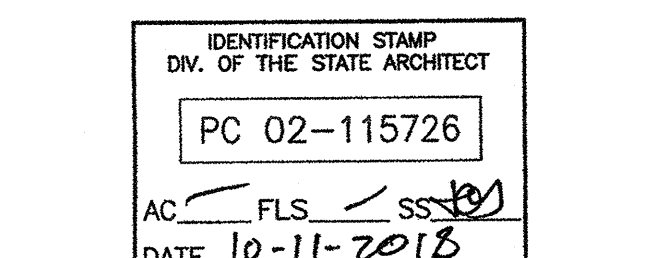
8-20-18  
RST18175

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PROJECT SPECIFIC STATE AGENCY APPROVAL



ORIGINAL PC STATE AGENCY APPROVAL



**PRE-CHECK (PC) DOCUMENT**  
CODE 2018 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

DRAWN BY: AS NOTED  
SCALE: AS NOTED  
DATE:

SHEET NUMBER

**S0.0-02**

<p><b>W5x16 FLOOR JOIST</b> ASTM = A36 GRADE = 36 Fy = 36ksi A = 4.71 IN<sup>2</sup> Sx = 8.55 IN<sup>3</sup> Zx = 9.63 IN<sup>2</sup> Ix = 21.4 IN<sup>4</sup> Iy = .25 IN<sup>4</sup></p>	<p><b>C7x9.8 FLOOR BEAM</b> ASTM = A36 GRADE = 36 Fy = 36ksi A = 2.87 IN<sup>2</sup> Sx = 6.07 IN<sup>3</sup> Zx = 7.19 IN<sup>2</sup> Ix = 21.20 IN<sup>4</sup> Iy = .21 IN<sup>4</sup></p>	<p><b>C9x13.4 FLOOR BEAM</b> ASTM = A36 GRADE 36 OR A572 GRADE 50 A = 3.94 IN<sup>2</sup> Sx = 10.60 IN<sup>3</sup> Zx = 12.60 IN<sup>2</sup> Ix = 47.80 IN<sup>4</sup> Iy = .220 IN<sup>4</sup></p>	<p><b>HSS 4x4x5/16 COLUMN</b> ASTM = A500 GRADE = B Fy = 46ksi A = 4.10 IN<sup>2</sup> Sx = 4.57 IN<sup>3</sup> Zx = 5.59 IN<sup>2</sup> Ix = 9.14 IN<sup>4</sup> Iy = .3125 IN<sup>4</sup></p>	<p><b>HSS 6x4x5/16 COLUMN</b> ASTM = A500 GRADE = B Fy = 46ksi A = 5.28 IN<sup>2</sup> Sx = 8.27 IN<sup>3</sup> Zx = 10.30 IN<sup>2</sup> Ix = 24.80 IN<sup>4</sup> Iy = 13.2 IN<sup>4</sup></p>	HOT ROLLED FLOOR JOIST PROPERTIES	HOT ROLLED FLOOR BEAM PROPERTIES	HSS COLUMN PROPERTIES	LIGHT GAUGE FLOOR JOIST PROPERTIES	LIGHT GAUGE FLOOR JOIST PROPERTIES
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<p>(26 GA. MAY BE USED W/PLYWOOD SHEATHING)</p> <p><b>10 GA. FORMED SOFFIT CEE</b> ASTM = A1011 GRADE = 36 Fy = 36ksi A = 1.30 IN<sup>2</sup> Sx = 1.49 IN<sup>3</sup> Zx = 1.78 IN<sup>2</sup> Ix = 6.87 IN<sup>4</sup> Iy = 0.0713 IN<sup>4</sup></p>	<p><b>14 GA. FORMED SOFFIT CEE</b> ASTM = A1011 GRADE = 36 Fy = 36ksi A = 0.97 IN<sup>2</sup> Sx = 1.49 IN<sup>3</sup> Zx = 1.78 IN<sup>2</sup> Ix = 6.87 IN<sup>4</sup> Iy = 0.0713 IN<sup>4</sup></p>	<p><b>10 GA. ROOF PURLIN</b> ASTM = A1011 GRADE = 36 Fy = 36ksi A = 1.30 IN<sup>2</sup> Sx = 1.49 IN<sup>3</sup> Zx = 1.78 IN<sup>2</sup> Ix = 6.87 IN<sup>4</sup> Iy = 0.118 IN<sup>4</sup></p>	<p><b>12 GA. ROOF PURLIN</b> ASTM = A1011 GRADE = 36 Fy = 36ksi A = 1.14 IN<sup>2</sup> Sx = 1.50 IN<sup>3</sup> Zx = 1.65 IN<sup>2</sup> Ix = 4.95 IN<sup>4</sup> Iy = 0.097 IN<sup>4</sup></p>	20GA ROOF PAN PROPERTIES	14GA FORMED SOFFIT CEE PROPERTIES	LIGHT GAUGE ROOF PURLIN PROPERTIES	LIGHT GAUGE ROOF PURLIN PROPERTIES
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<p><b>10 GA. LONGITUDINAL BEAM</b> ASTM = A1011 GRADE = 50 Fy = 50ksi t = 0.135 IN.</p> <table border="1"> <tr><th>BEAM DEPTH</th><th>IN</th></tr> <tr><td>A (IN)</td><td>3.53</td></tr> <tr><td>S<sub>x</sub> MIN (IN<sup>3</sup>)</td><td>16.50</td></tr> <tr><td>S<sub>x</sub> MAX (IN<sup>3</sup>)</td><td>152.26</td></tr> </table>	BEAM DEPTH	IN	A (IN)	3.53	S <sub>x</sub> MIN (IN <sup>3</sup> )	16.50	S <sub>x</sub> MAX (IN <sup>3</sup> )	152.26	<p><b>12 GA. TRANSVERSE BEAM</b> ASTM = A1011 GRADE = 36 Fy = 36ksi t = 0.1017 IN.</p> <table border="1"> <tr><th>BEAM DEPTH</th><th>IN</th><th>IS</th></tr> <tr><td>A (IN)</td><td>2.36</td><td>2.76</td></tr> <tr><td>S<sub>x</sub> MIN (IN<sup>3</sup>)</td><td>9.57</td><td>13.60</td></tr> <tr><td>S<sub>x</sub> MAX (IN<sup>3</sup>)</td><td>67.02</td><td>122.44</td></tr> </table>	BEAM DEPTH	IN	IS	A (IN)	2.36	2.76	S <sub>x</sub> MIN (IN <sup>3</sup> )	9.57	13.60	S <sub>x</sub> MAX (IN <sup>3</sup> )	67.02	122.44	<p><b>10 GA. TRANSVERSE BEAM</b> ASTM = A1011 GRADE = 50 Fy = 50ksi t = 0.135 IN.</p> <table border="1"> <tr><th>BEAM DEPTH</th><th>IN</th></tr> <tr><td>A (IN)</td><td>3.09</td></tr> <tr><td>S<sub>x</sub> MIN (IN<sup>3</sup>)</td><td>12.41</td></tr> <tr><td>S<sub>x</sub> MAX (IN<sup>3</sup>)</td><td>86.88</td></tr> </table>	BEAM DEPTH	IN	A (IN)	3.09	S <sub>x</sub> MIN (IN <sup>3</sup> )	12.41	S <sub>x</sub> MAX (IN <sup>3</sup> )	86.88	<p>NOT USED</p>	LIGHT GAUGE ROOF BEAM PROPERTIES	LIGHT GAUGE ROOF BEAM PROPERTIES	LIGHT GAUGE ROOF BEAM PROPERTIES	NOT USED
BEAM DEPTH	IN																																		
A (IN)	3.53																																		
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- THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET SO THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
- UNLESS NOTED OTHERWISE, ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES.
- LIGHT GAUGE STRUCTURAL MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH RUST INHIBITIVE COATING. SEE SHEET N2.0, "LIGHT GAUGE METAL STUDS & COLD FORMED STEEL", FOR ADDITIONAL INFORMATION.

18 NOT USED

19 SHEET NOTES