



## TRELLIS MODEL

9'X 18'

## SPECIFICATIONS

### Dimensions:

Roof Lattice Dimensions	9'-0" x 18'-0"
Column Dimensions (center to center)	7'-0" x 15'-0"
Minimum Clearance	10'-0"
Square feet under lattice	±162

Columns shall be 6"x 6" steel tube, .120 minimum wall thickness.

All beams shall be structural steel tube sized according to engineering.

All bolts shall be A-307 or A-325 and hidden at all main connections.

Roof lattice beams shall be 5"x 3" steel tube with closed ends, variable spaced.

Roof lattice connections shall be hidden to the greatest extent possible on top of the perimeter beam.

All welds shall be ground smooth.

Open or welded "C" channel, "I" beams, "S" or "Z" purlins or angle iron shall not be allowed.

11875 E. Berry Dr. - Dewey, Arizona 86327

Ph: (928) 775-3307 Fax: (928) 772-0858

[info@classicrecreation.com](mailto:info@classicrecreation.com)

[www.classicrecreation.com](http://www.classicrecreation.com)



## STANDARD SPECIFICATIONS w/ ZINC RICH PRIMER & TGIC POWDER COAT PAINT

### **GENERAL:**

1. All structures shall be designed and fabricated to the IBC (Latest Edition) with standard load designs of 20# per S.F. minimum live load, 100mph wind load and the applicable zone for seismic loads.
2. All members shall be designed according to the "American Institute of Steel Construction (AISC) specifications and the American Iron and Steel Institute (AISI) specifications for cold-formed members.
3. All fabrication welds shall be in strict accordance with the structural welding code of the American Welding Society (AWS) specifications. All structural welds shall be in compliance with the requirements of "Pre-qualified" welded joints. All welding shall conform to ASTM A-233 series E-70XX electrodes - low hydrogen.  
*Field welding shall not be required.*
4. When required, after award of bid, the shade structure manufacturer shall submit structural calculations, sealed by a registered engineer in the state in which the structure is to be erected for review and approval by the approving agency.
5. Manufacturer qualifications: All manufacturers shall have a minimum of (20) twenty years experience in the fabrication of tubular steel shade structures. Shade structure and kiosk fabrication shall be the manufacturer's primary business. Manufacturer shall have fabricated similar structures to that which is specified. All non-specified manufacturers shall submit complete shop drawings indicating type, size & gauge of material used, with detailed connections to the specifying agency or design firm at least 10 days prior to bid opening for review and written pre-approval. All bids submitted without prior approval will be rejected.

### **FOOTINGS & COLUMNS:**

1. Footings shall be structurally engineered by the structure manufacturer to meet local codes and site conditions. (Sample footing drawings shall be made available to the contractor or owner from the manufacturer). Anchor bolts for surface mounted structures shall be supplied by the owner / contractor. Columns shall be ASTM 500 grade B. Concrete footing rebar (if required) shall be ASTM A-615 grade 40 #4 bars & smaller, grade 60 #5 bars & larger. Concrete shall be 5 sack mix "Portland" cement. Maximum slump shall not exceed 4". Compressive strength: 2500 psi @ 28 days.

### **FRAME MEMBERS:**

1. Only American (domestic) made steel shall be used in the construction of this shelter. Mill certification shall be made available upon request. All frame members shall be one piece structural steel tube with a minimum .120 (1/8") wall thickness, sized according to engineering. All frame members shall be bolted together with bolts totally concealed. All tubing for frame members shall be ASTM 500 grade B. Beam end plates shall be ASTM



A36 fy=36,000 psi UNO. Bolts shall be A 325's unless noted otherwise.  
*"I" beams, Angle iron, "C", "Z" or "S" purlins or beams, open or closed, shall not be allowed.*

### **ROOFING:**

1. All roofing shall be 5"x3" tube steel lattice with a minimum .120 wall thickness. Lattice shall be spaced as noted, center to center. Ends shall be capped with 16 gauge flat plate steel.

### **PAINT:**

1. All frame members shall be media blasted to a white finish removing all rust, scale, oil and grease. Powder coating for all frame members shall be provisionally warranted for (5) five years with zinc rich primer (2.5-3 mils) and TGIC polyester (2.5-3 mils) minimum total 5-6 mils finish. Finish shall be a smooth uniform surface with no pits, runs or sags.

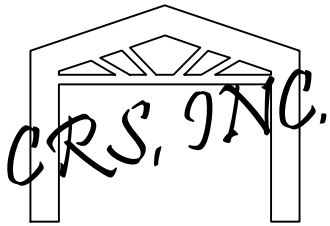
### **ERECTION:**

1. Manufacturer shall supply complete layout and detail plans with installation instructions for the structure. The structure shall be erected in a work-man-like manner with framing, roofing and trim installed according to the manufacturer's installation instructions. Care shall be taken to avoid damaging the structure during installation. Components of the structure shall be covered and kept dry prior to erection.

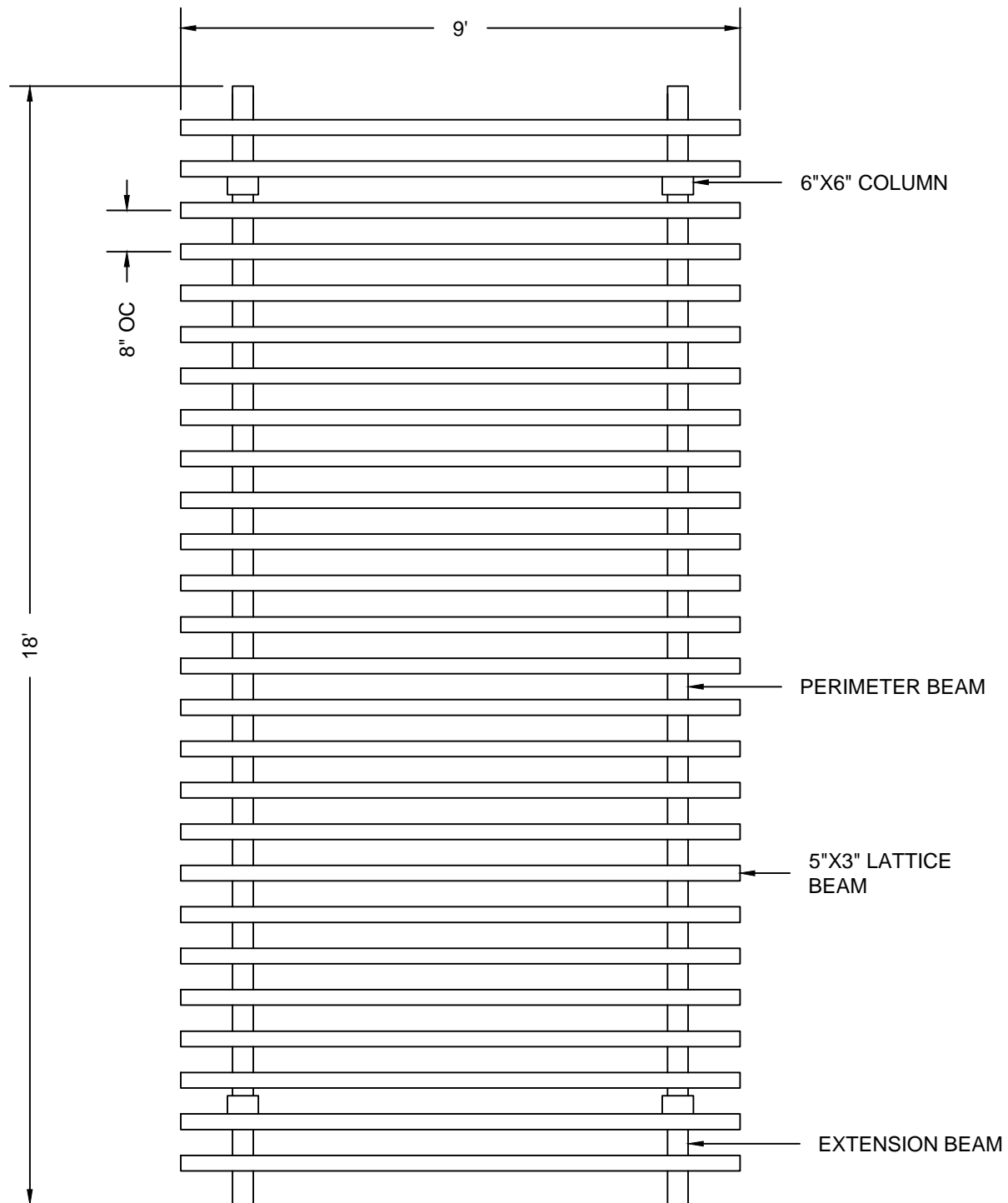
### **WARRANTEE:**

1. Manufacturer shall warranty the structure to be free from defects in material and workmanship for a period of (10) ten years from date of acceptance by owner. Warranty does not include damage from theft, fire, vandalism or acts of God. Manufacturer shall repair or replace structure components of like kind at his option, to match existing material and workmanship. Powder coat paint shall be warranted for (5) five years after acceptance from owner against peeling, flaking and rusting. Warranty does not cover damage caused from shipping, erection of structure, lack of touchup and maintenance, overspray from lawn sprinklers or vandalism. Bolt threads are not powder coated and therefore are not covered under the powder coat warranty.

*NOTE: Engineering specifications take precedence over drawings if differences occur.*



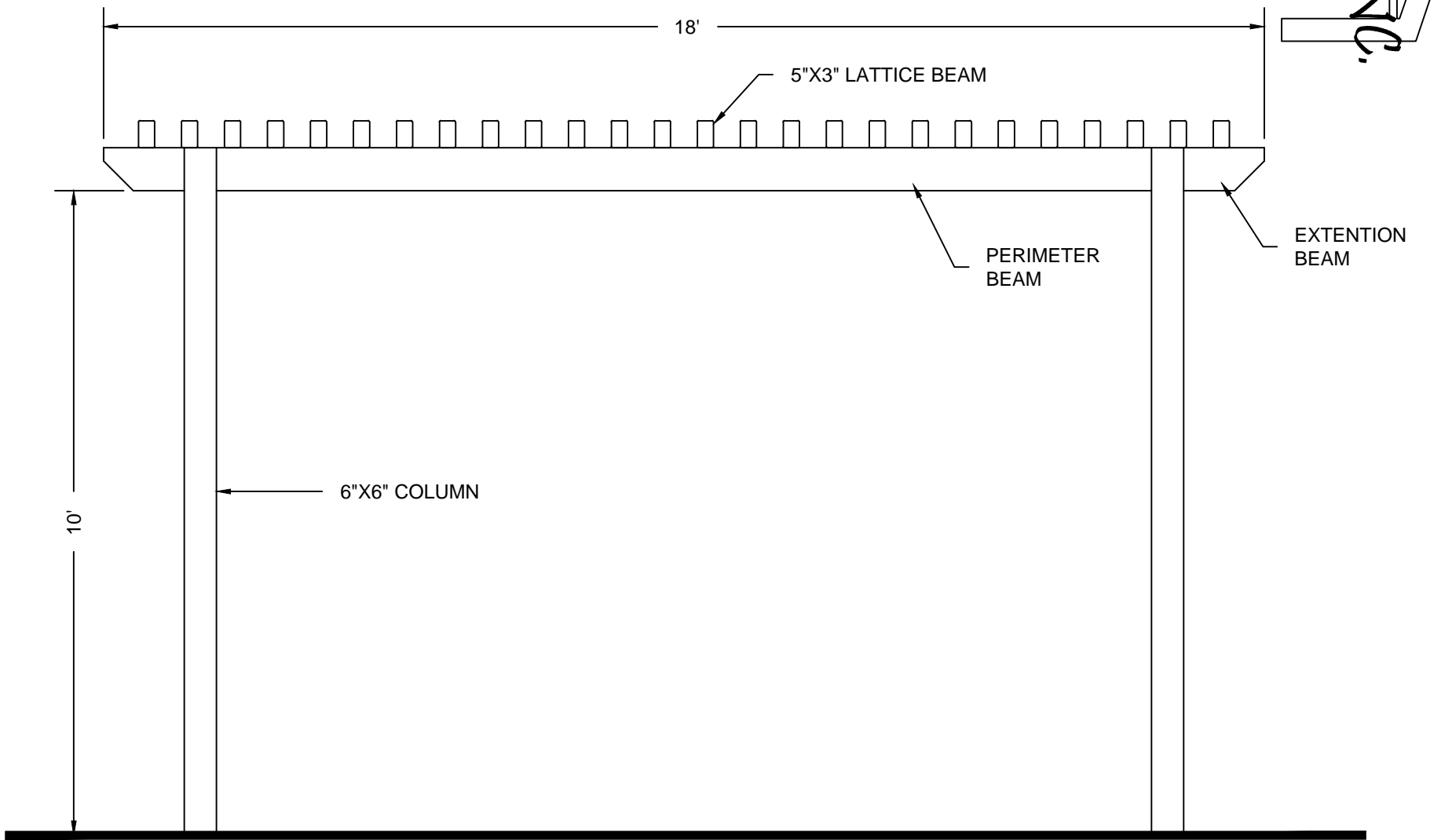
NOT FOR CONSTRUCTION



PLAN VIEW 9'X18' TRELLIS MODEL

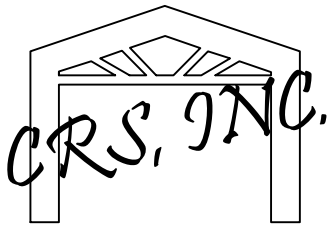
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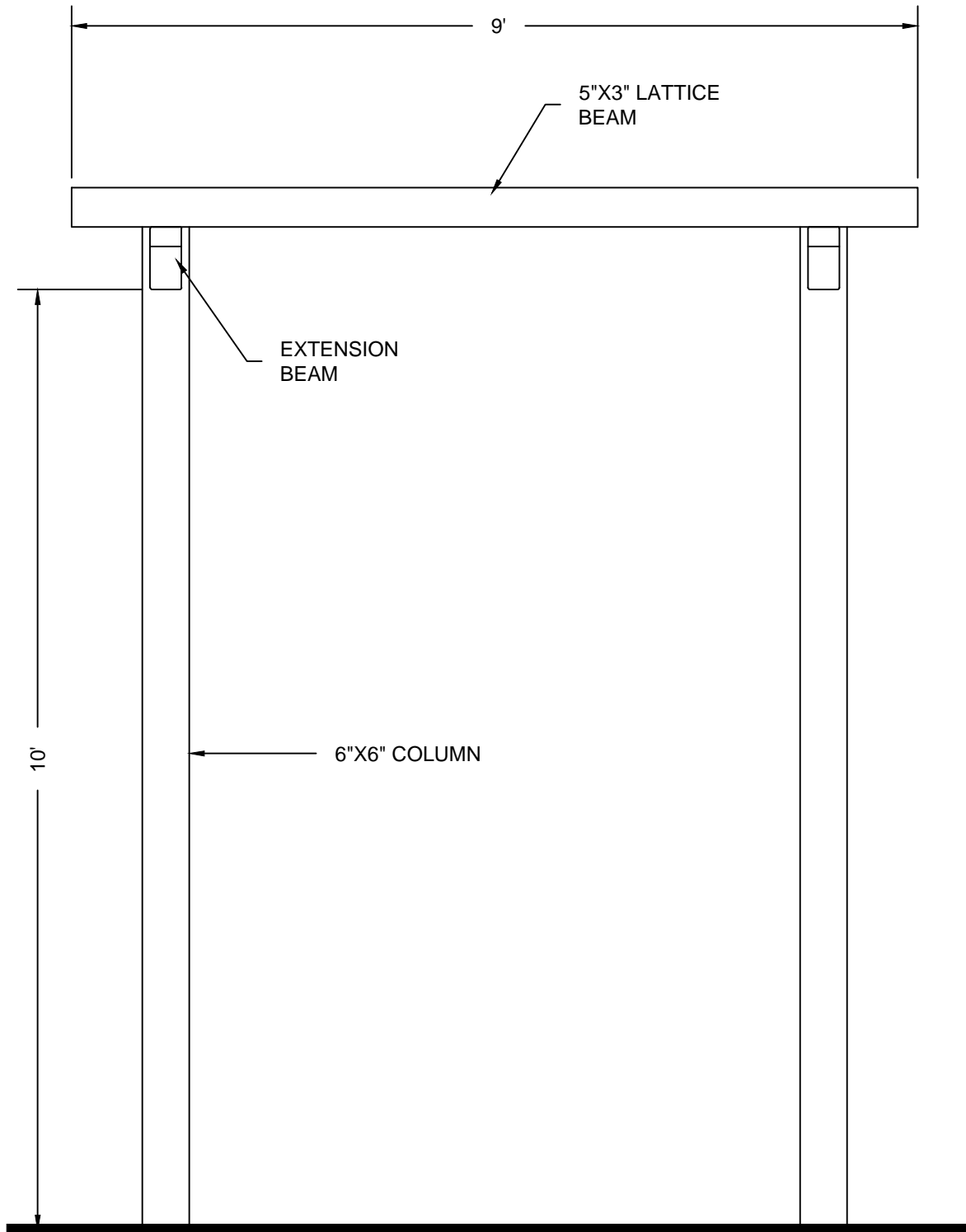


ELEVATION 9'X18' TRELLIS MODEL

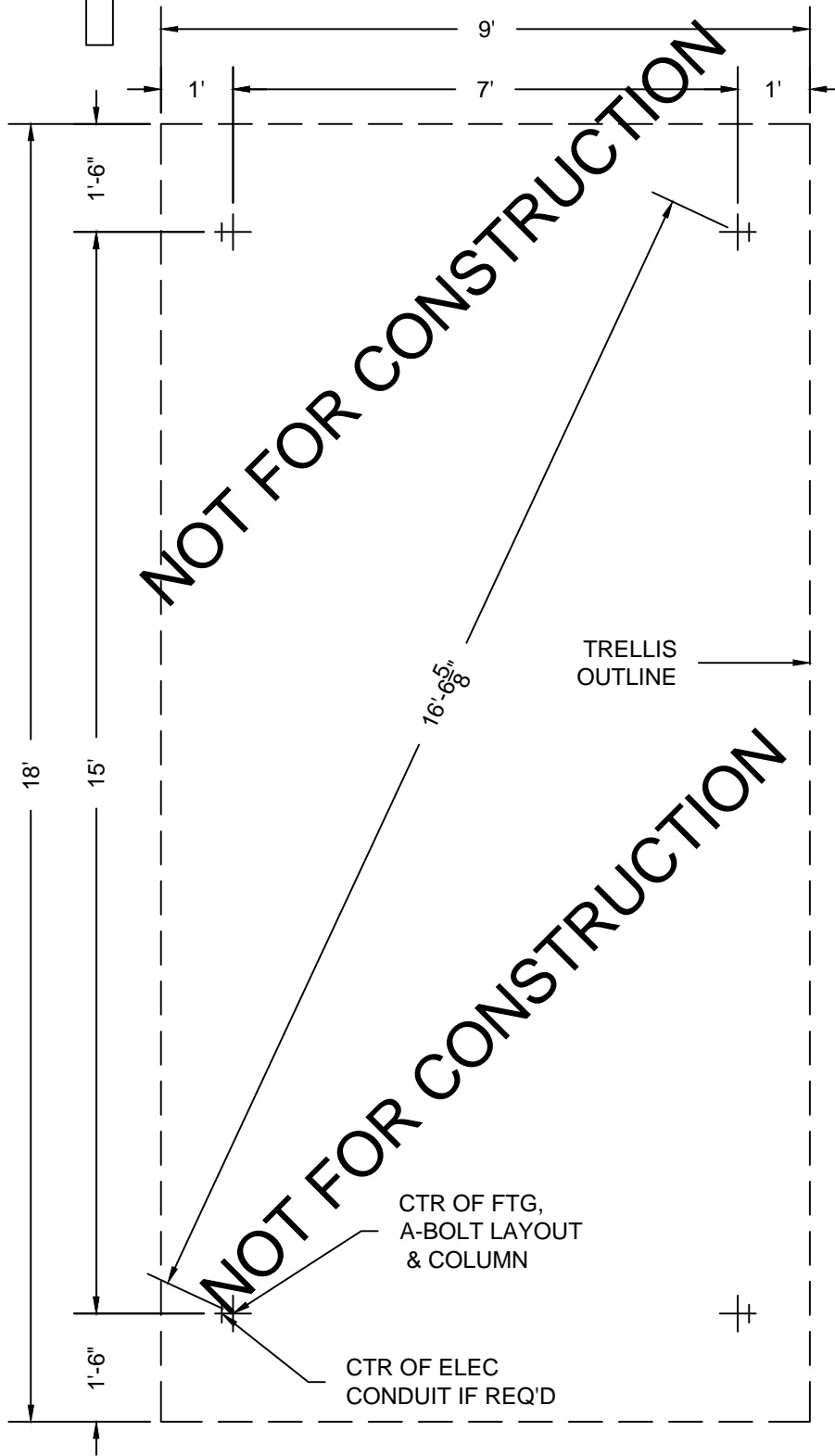
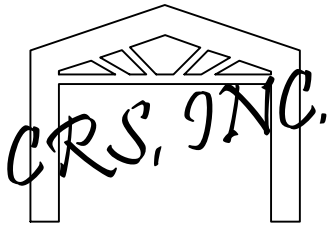
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END ELEVATION 9'X18' TRELLIS MODEL  
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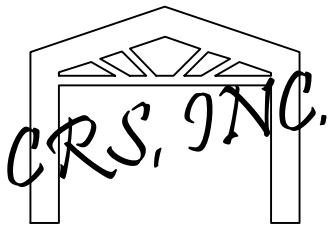


LAYOUT PLAN 9'X18' TRELLIS MODEL NTS



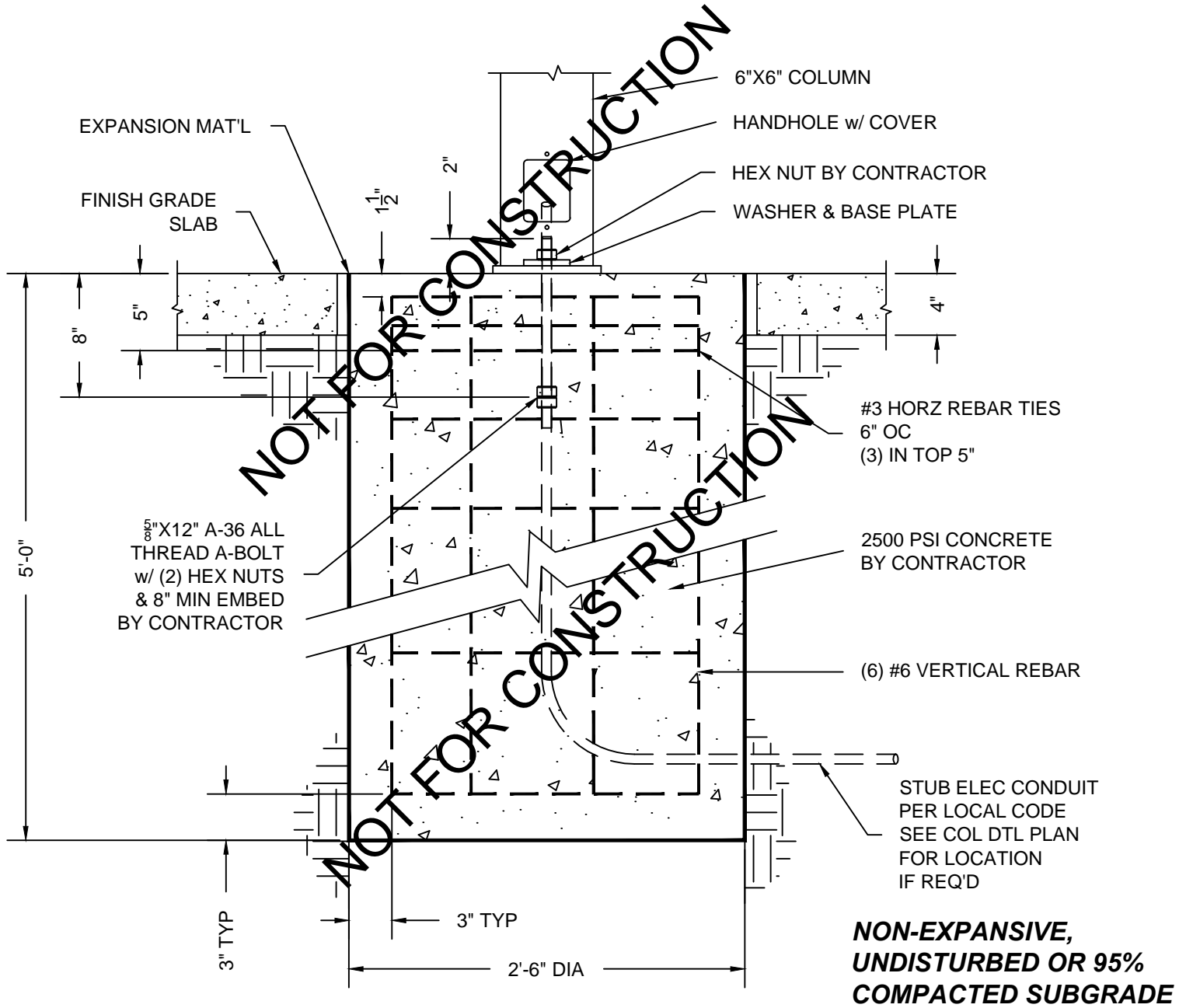
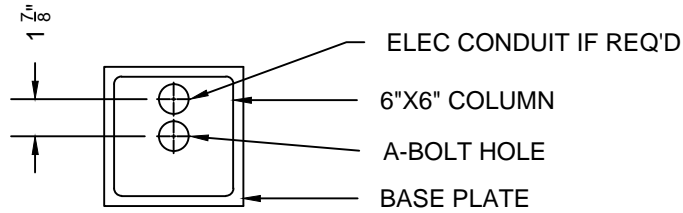
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NOTE: FOR ILLUSTRATION ONLY!  
FOOTING SIZE MAY CHANGE w/  
STRUCTURAL ENGINEERING

ADJUST FTG DEPTH FOR  
LOCAL FROST CONDITIONS



SURFACE MOUNT CAISSON FOOTING  
8'X18' TRELLIS MODEL

NTS