



NORTHWEST MODEL

36' X 50'

SPECIFICATIONS

Dimensions:

Roof Dimensions:	36'-0" x 50'-0"
Column Dimensions (Center to Center)	32'-0" x 15'-4"
Minimum Clearance:	7'-6"
Roof Height @ Peak:	±21'-6"
Gable Roof w/ clerestory:	6:12 & 8:12 pitch
Square Feet Under Roof:	1800

Columns shall be 8"x 8" steel tube, .188 minimum wall thickness.

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

Rafter beams shall be one piece construction with mitered corners welded and ground smooth.

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

Roofing shall be architectural asphalt shingles by others.

Subroof shall be select grade SPF 2"x6" Tongue & Groove, rough one side.

Fascia shall be select grade SPF 2"x6", rough one side.

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



STANDARD SPECIFICATIONS

25 YEAR ARCHITECTURAL SHINGLE ROOF ON 2"X6" T&G SUB-ROOF w/ WOOD FASCIA

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, 100 mph 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 5 years experience in the fabrication of tubular steel shade structures. Shade structure 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 AND COMPRESSION RING:

1. 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. Compression rings shall be fabricated from structural steel tube or flat plate steel and shall have all connections concealed from view. All tubing for frame members shall be ASTM 500 grade B. Beam end plates shall be ASTM A36 $f_y=36,000$ psi UNO. Bolts shall be A 307's, or 325's unless noted otherwise. *"I" beams, Angle iron, "C", "Z" or "S" purlins or beams, open or closed, shall not be allowed.*

ROOFING AND TRIM:

1. All roofing shall be 25 year architectural, fiberglass shingles on 15 lb. felt provided by Classic Recreation Systems.

SUB-ROOF & FASCIA:

1. Sub-roof shall be cut on site, 2"x 6" tongue and groove, select grade spruce, pine or fir (SPF), rough 1 side, facing down. Wood fascia shall be 2"x6" select grade SPF rough 1 side on the 1st tier. 2nd tier shall be 2"x4" select grade SPF rough 1 side. T&G shall be screwed to the frame with (1) #12-24 x 2½" Phillip flat head w/ wings. (One screw, per board, per beam connection). Fascia shall be wood.

PAINT:

1. All frame members shall be sand blasted to a white finish removing all rust, scale, oil and grease. Powder coat all frame members with TGIC polyester, minimum 4-5 mil 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.

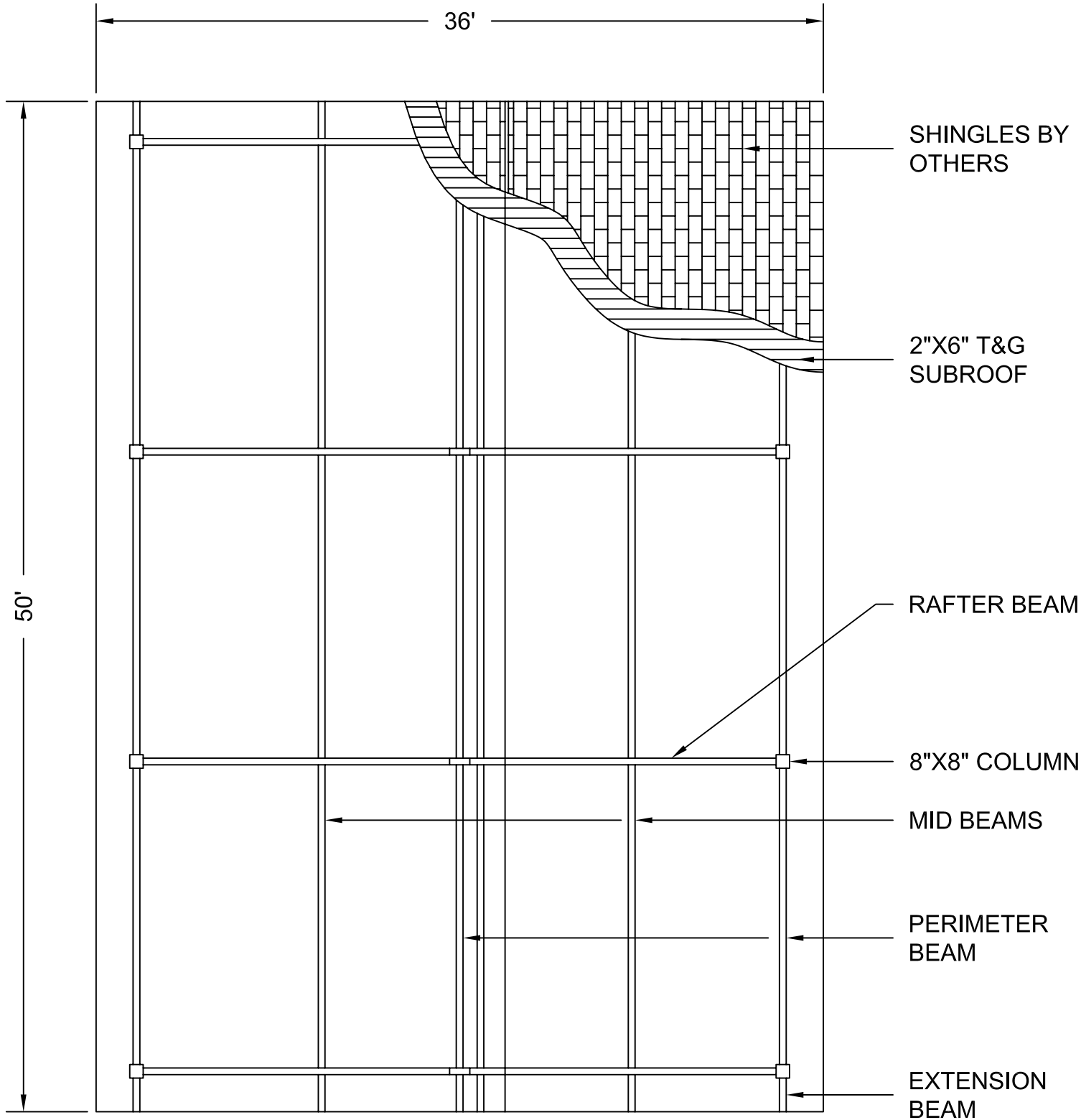
WARRANTEE:

1. Manufacturer shall warranty the structure to be free from defects in material and workman-ship for a period of (5) five 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.

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



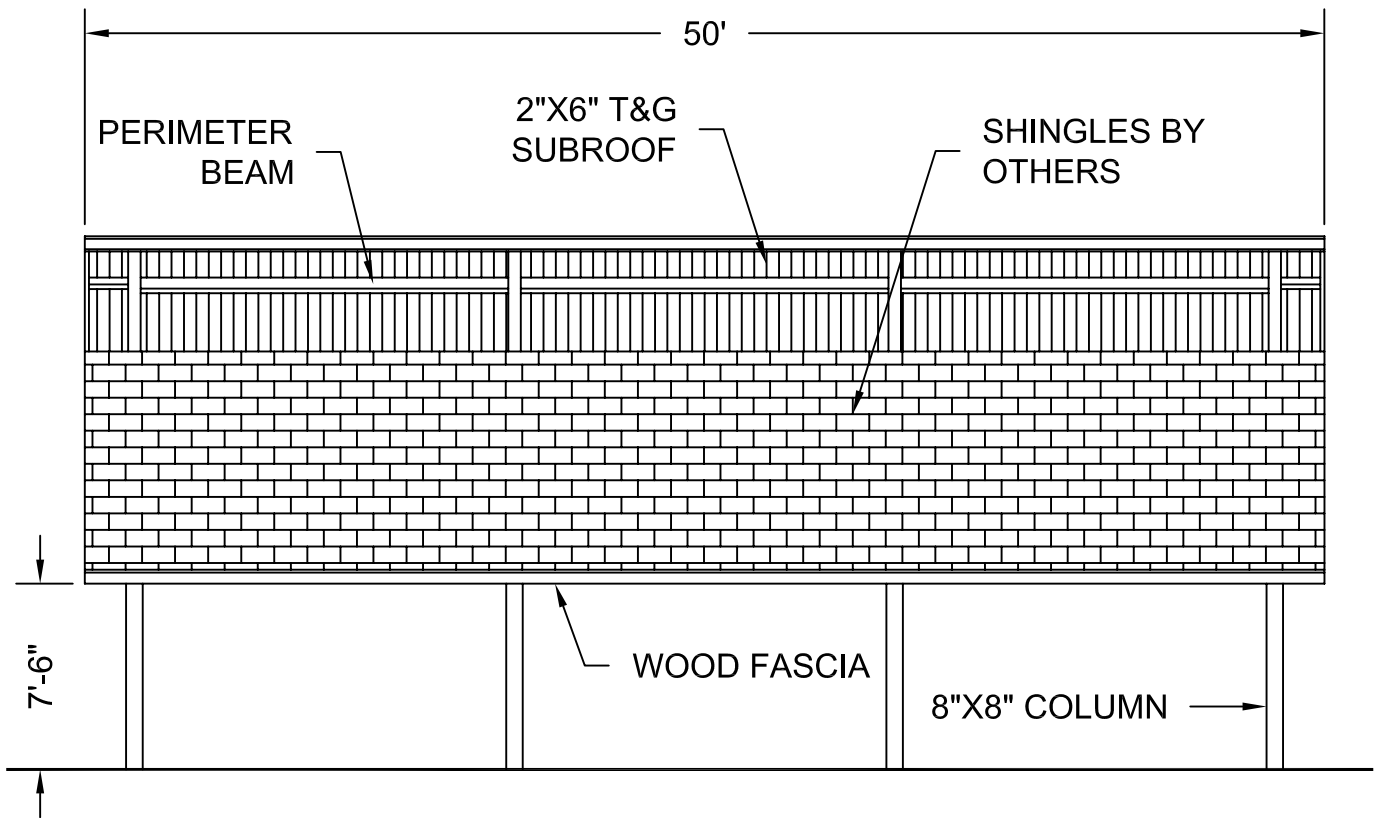
NOT FOR CONSTRUCTION



PLAN VIEW 36'X50' NORTHWEST MODEL NTS



NOT FOR CONSTRUCTION

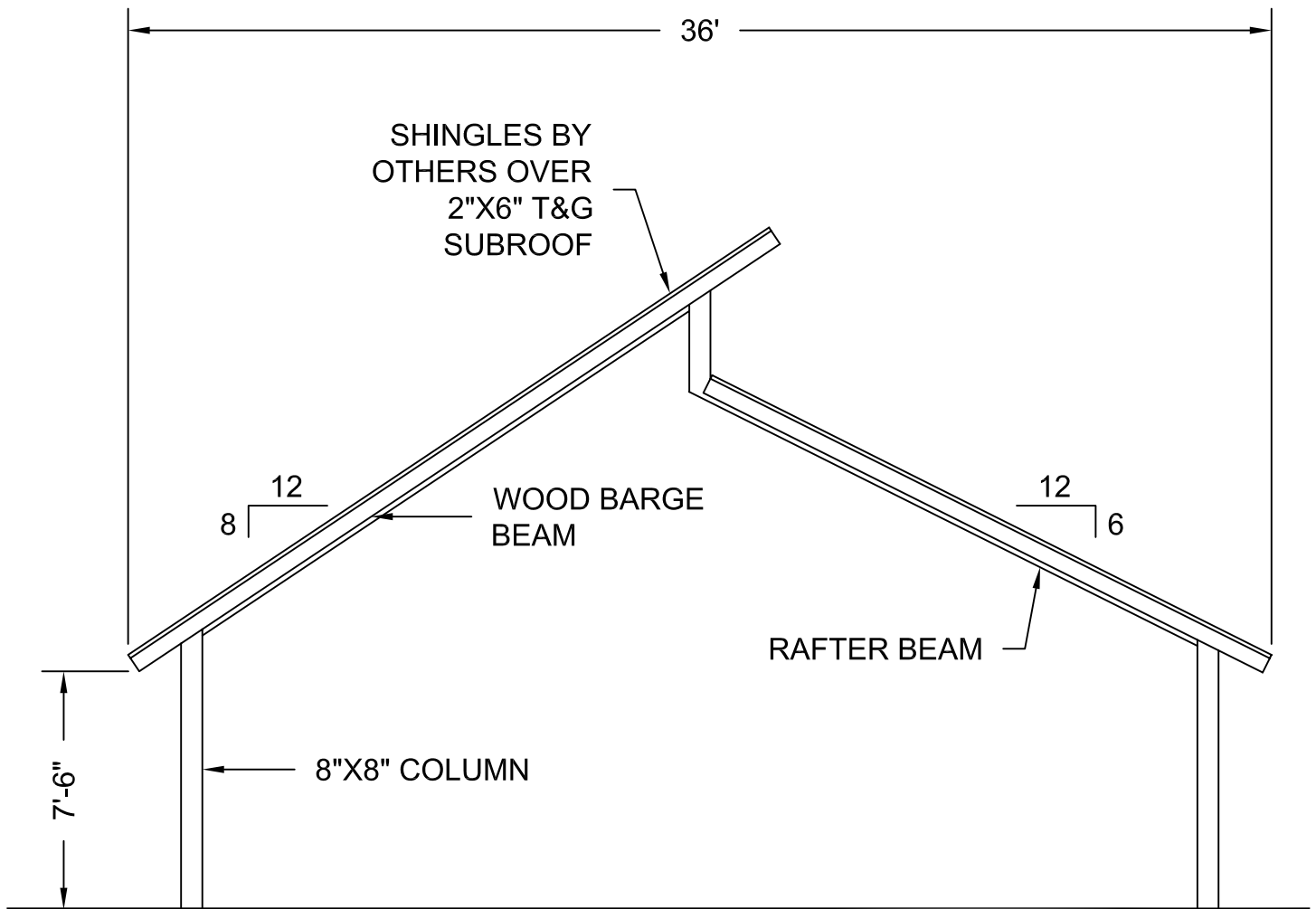


ELEVATION 36'X50' NORTHWEST MODEL

NTS

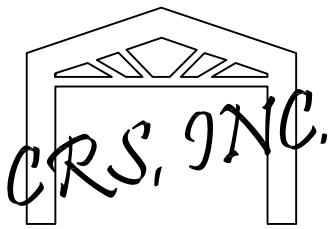


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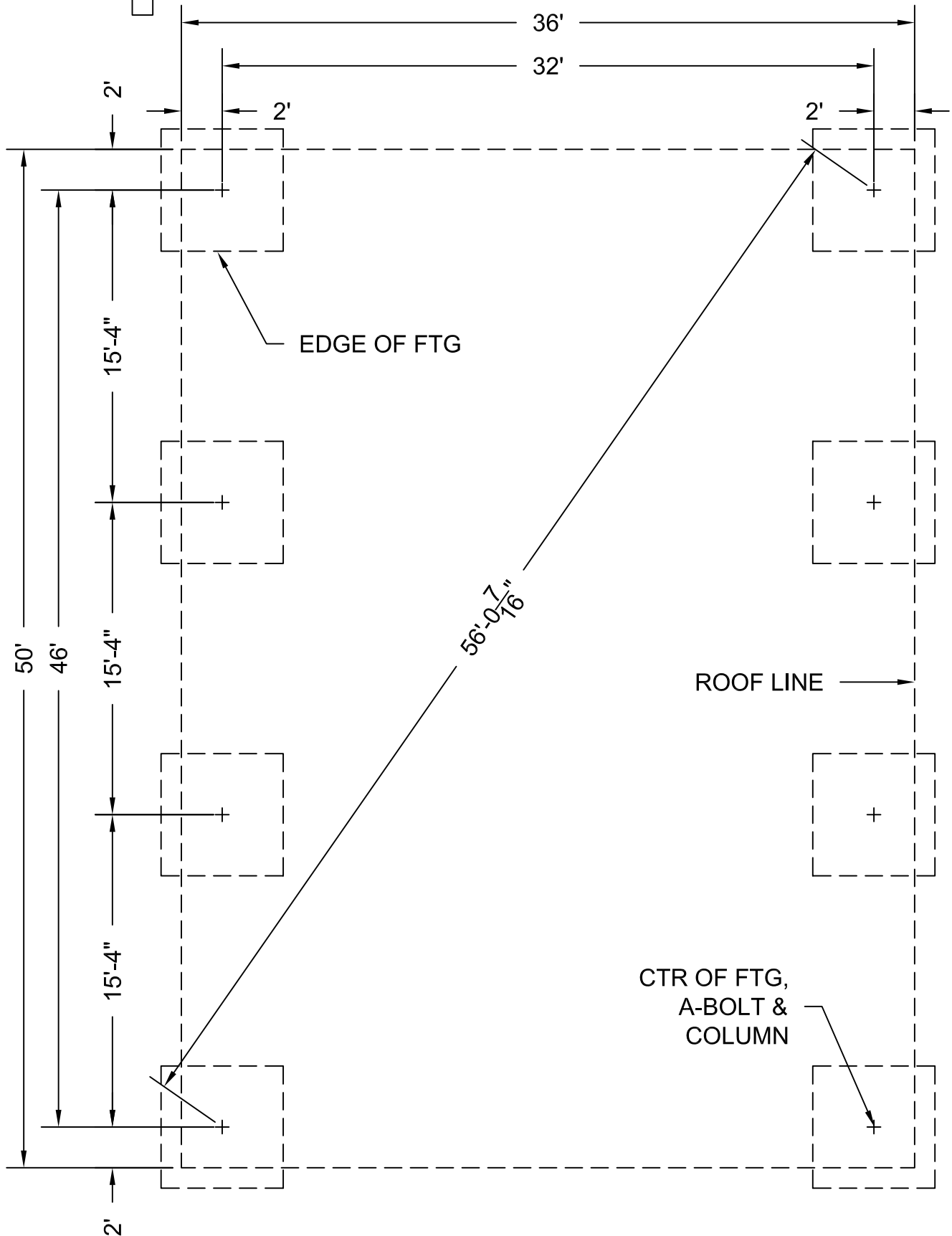


END ELEVATION 36'X50' NORTHWEST MODEL

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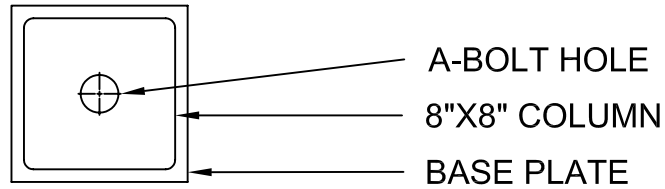
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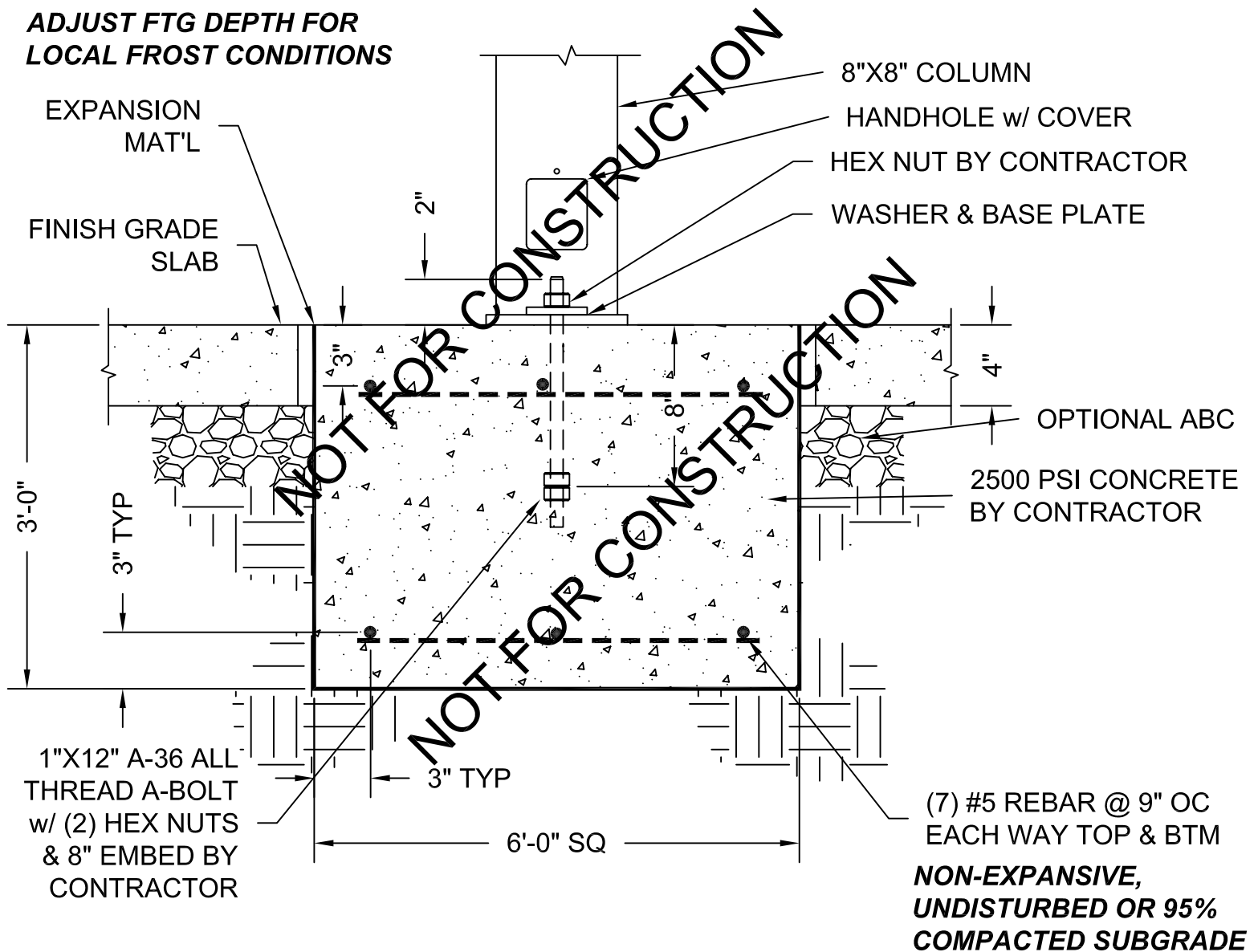
LAYOUT PLAN 36'X50' NORTHWEST MODEL NTS



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

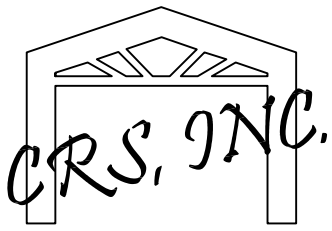


**ADJUST FTG DEPTH FOR
LOCAL FROST CONDITIONS**



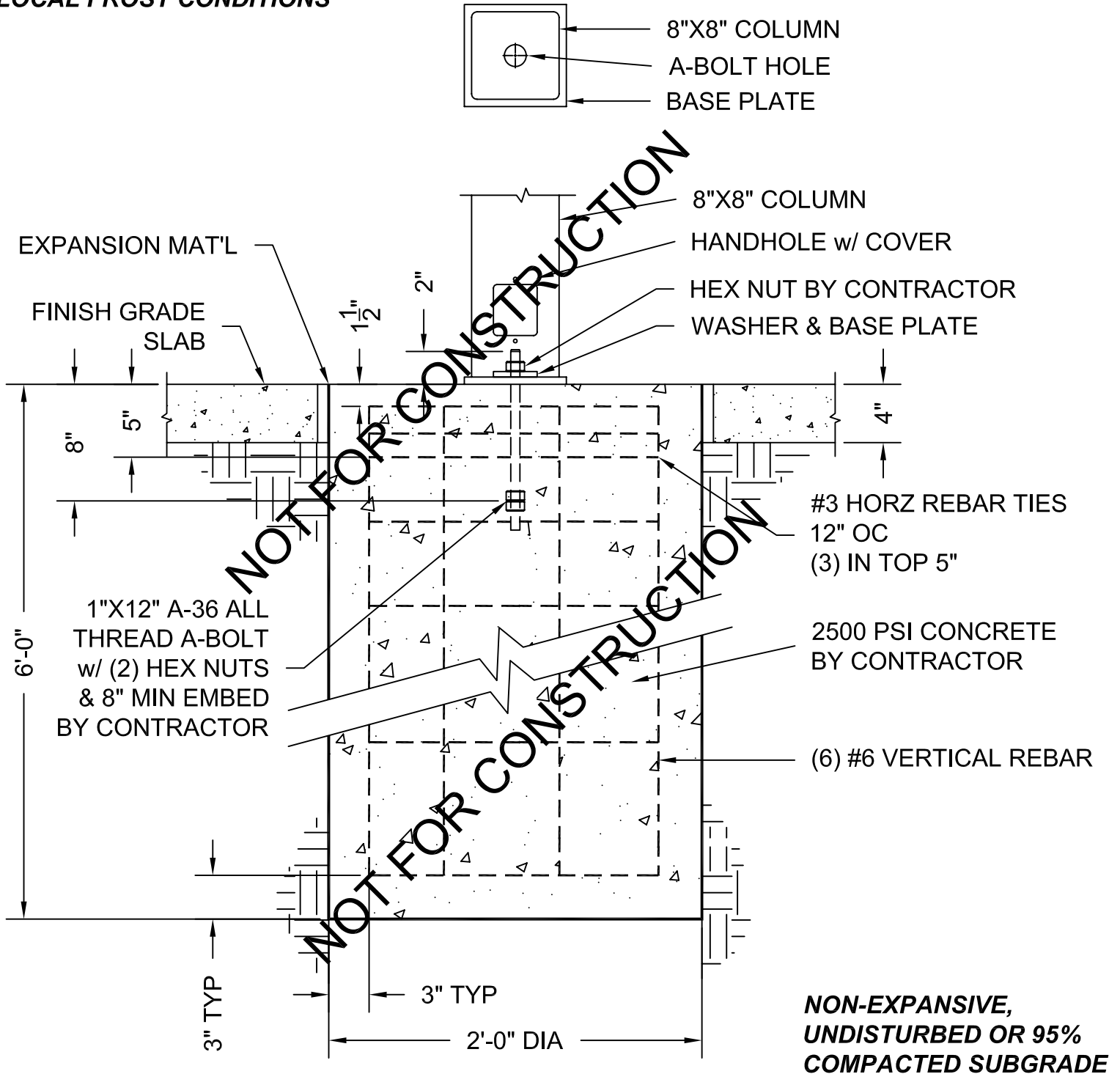
**SURFACE MOUNT SPREAD FOOTING
30'X50' NORTHWEST MODEL**

NTS



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

ADJUST FTG DEPTH FOR
LOCAL FROST CONDITIONS



SURFACE MOUNT CAISSON FOOTING
36'X50' NORTHWEST MODEL

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