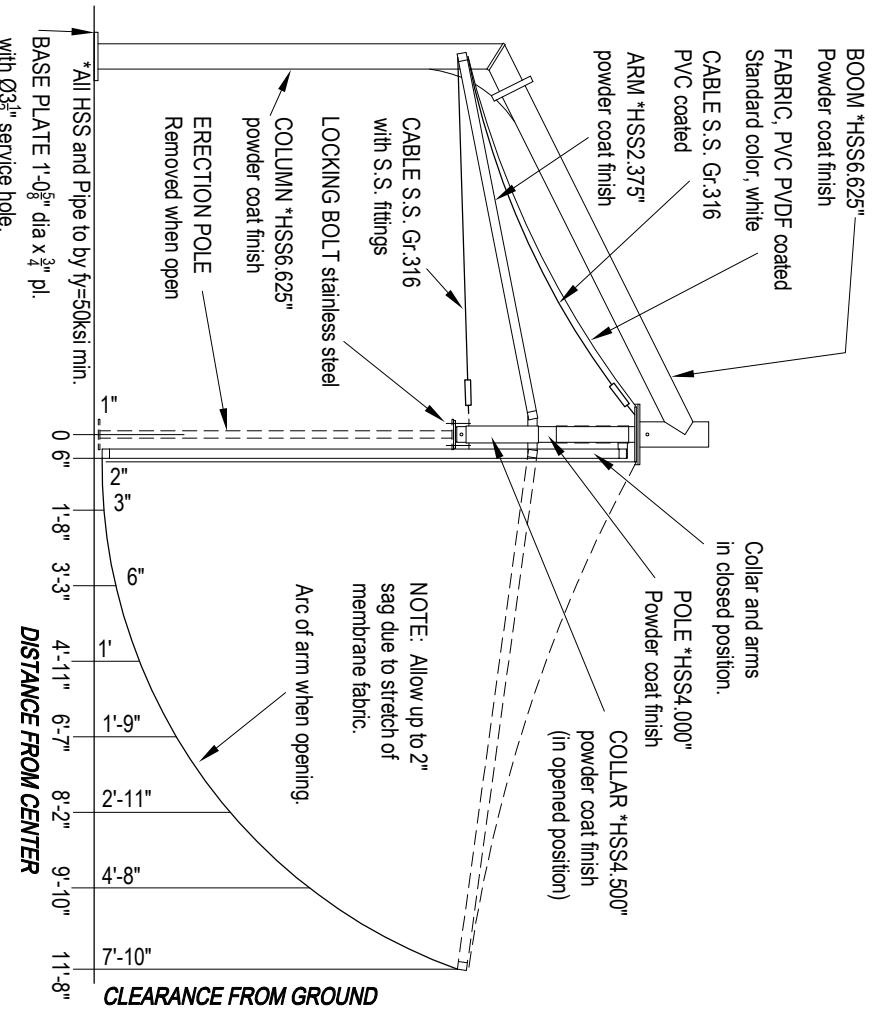
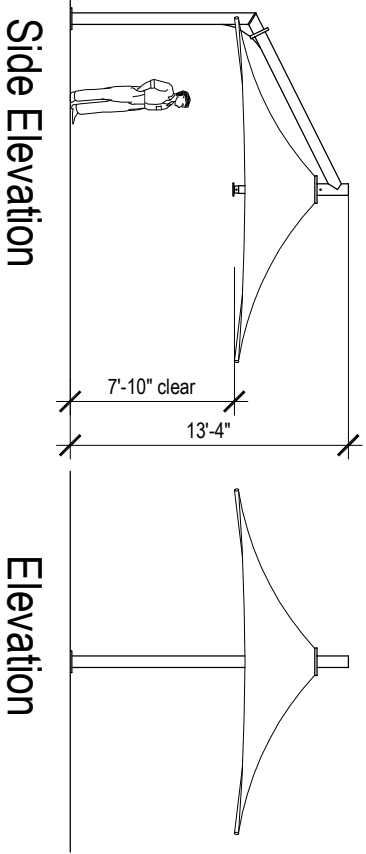
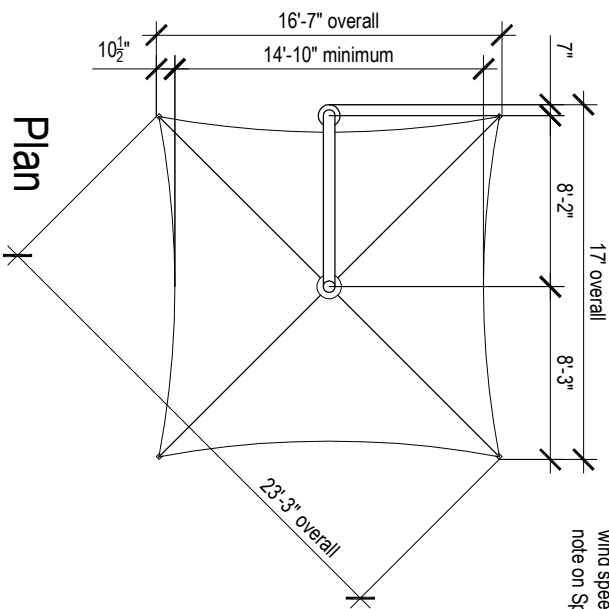


LEVA SQUARE 16'-7" - LS50

Designed to 90mph, Exp B
 Rated when umbrella is fully erected.
 Umbrella weight: 320 lb.
 Boom weight: 463 lb.

Overall dimensions represent clearance dimensions for the complete umbrella. Membrane dimensions differ, depending on variations in tensioning and fabrication. All dimensions are nominal and have a tolerance of +/- 2".

Note : The umbrellas must be closed and tied before wind speeds reach gusts of 60mph (100km/h) Refer note on Specification - Umbrella Design.

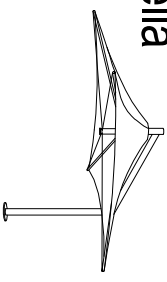


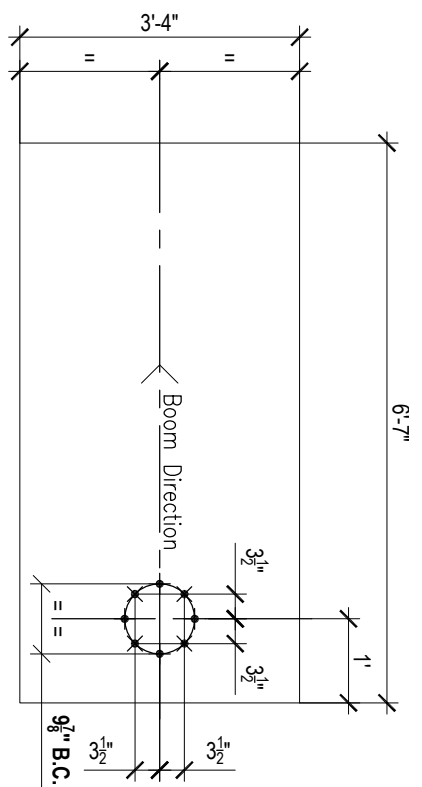
*All HSS and Pipe to by fy=50ksi min.
 BASE PLATE 1'-0⁵/₈" dia x 3³/₄" pl.
 with Ø3¹/₂" service hole.
 8-³/₄" hold down bolts on 9⁵/₈" B.C.
 F1554 Gr. 36 galvanized or stainless steel Gr.316.
 With dome nuts and leveling nuts.

OPENED POSITION
 View square to boom

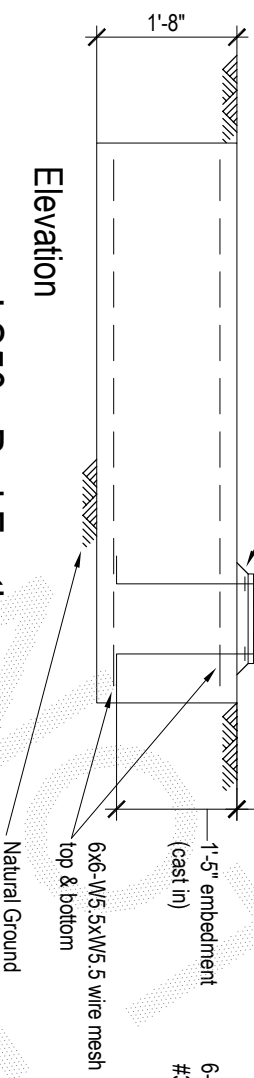
CLOSED POSITION
 View square to arm

16'-7" Side Support Square Umbrella
Leva - Model LS50



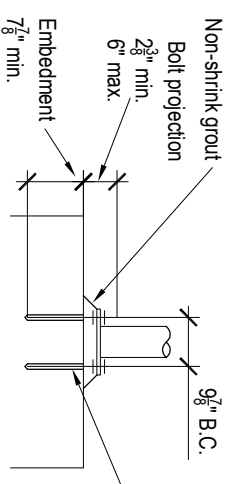


Plan



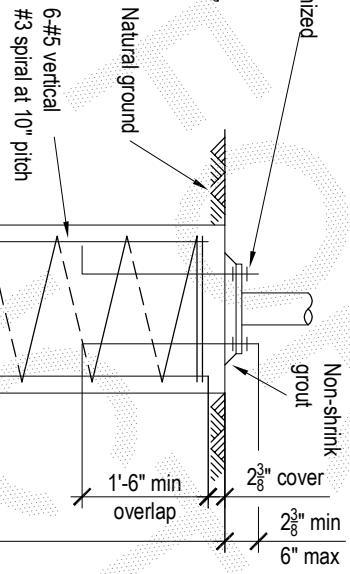
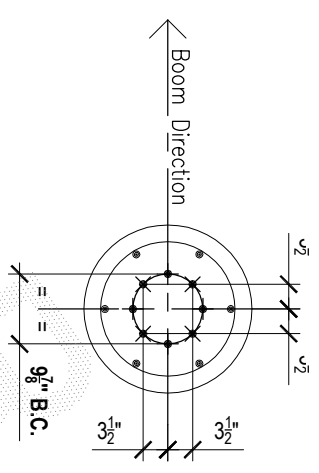
Elevation

LS50 - Pad Footing



Chemical Anchor Detail

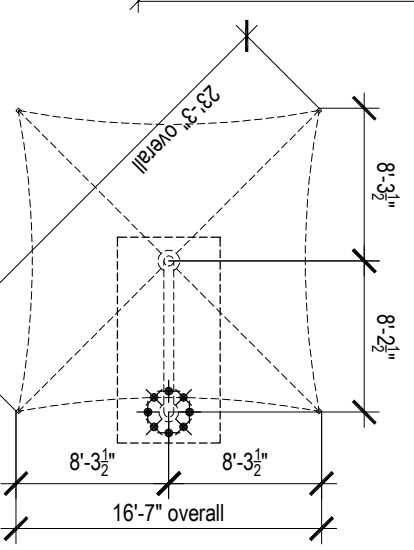
8- $\frac{3}{4}$ " H.D. bolts to be threaded rod F1554 Gr. 36 hot dipped galvanized, or stainless steel Gr. 316. Supplied with nuts, washers and leveling nuts. Chemical anchors, on $\frac{9}{8}$ " B.C., to be **Ramset Reo 502 (or Hillt HIT-RE 500⁷)**, or engineer approved equivalent, and to be installed in accordance with the manufacturer's instructions.



Elevation

LS50 - Pier Footing

- Notes:**
- Designed to 90mph, Exp B
 - Assumed soil conditions:
 - Pad - bearing capacity 14.5 psf
 - Pier - $cu = 7.25$ psf (stiff clay)
 - Minimum $2\frac{3}{8}$ " cover to all reinforcement
 - Concrete strength - $f'c$ 3600 psi
 - $\frac{3}{4}$ " aggregate size
 - Slump $2\frac{1}{2}$ "
- Anchor bolt location tolerances per Australian Standard AS 4800-1998**
- 3mm for anchor bolt centers within an anchor bolt group.
 - 6mm for adjacent anchor bolt group centers.
 - Maximum accumulation of 6mm per 30m not to exceed a total of 25mm.
 - 6mm from anchor bolt group center to column line center.



H.D. Bolt Layout Plan

Not to scale