8FT CANTILEVER 14 (CBU) CANOPY
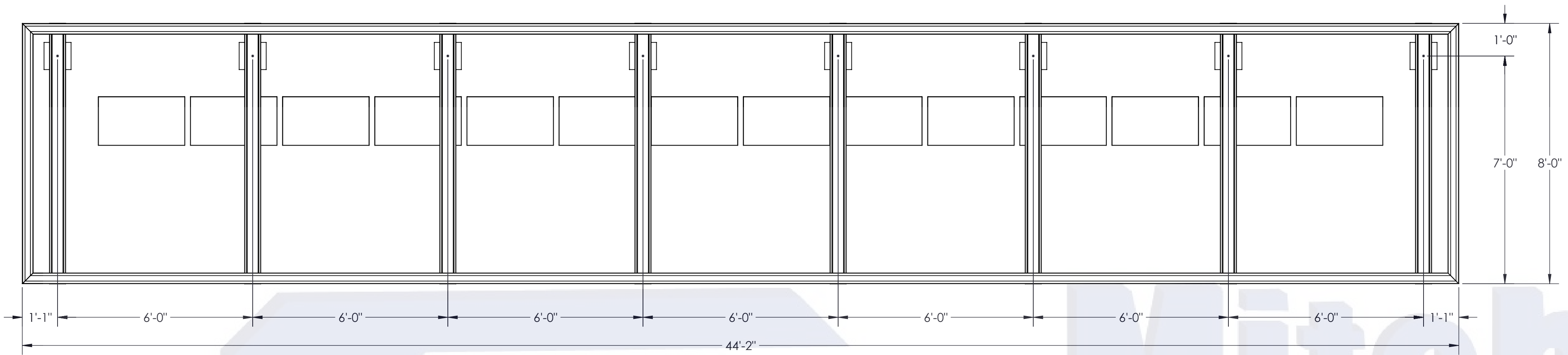
Mitchell METALS

1761 McCoba Drive, Suite A, Smyrna, GA 30080
Phone: (770) 431-7300 Fax: (770) 431-7305

ITEM NO.	PART NUMBER	DESCRIPTION
1	6063-T6 Aluminum	Column (see page 3 for size)
2	6063-T6 Aluminum	Beam (see page 3 for size)
3	0.080" Aluminum	Welded End Cap
4	6063-T6 Aluminum	4X6 GUTTER
5	Aluminum	3 x 12 x 0.032 Roll Formed Flat Pan
6	Deflector Plate	Deflector Plate
7	CBU Mailbox	

TOP VIEW - NO DECKING FRAMING AND GUTTER LAYOUT

44'-2"
1'-1" 6'-0" 6'-0" 6'-0" 6'-0" 6'-0" 6'-0" 1'-1"
1'-0"
7'-0"
8'-0"

SECTION VIEW

8'-0"
7'-0"   1'-0"
6"
1'-4"
2'-2 3/4"
90.00°
7'-6"
2'-0"
4"

CANOPY DRAINS THROUGH BACK SIDE OF COLUMN - SEE DRAIN DETAIL BELOW

OPTIONAL CONCRETE SLAB EXTENSION

CONCRETE FOUNDATION: SEE FOUNDATION DETAILS PAGE FOR SIZING AND REBAR REQUIREMENTS

SECTION A-A
SCALE 1 : 20

ELEVATION VIEW

44'-2"
1'-1" 6'-0" 6'-0" 6'-0" 6'-0" 6'-0" 6'-0" 1'-1"

2'-4" OVERHANG
2'-4" OVERHANG

5'-2 1/2" 6'-2" 7'-6" 7'-9 1/4"

A
A
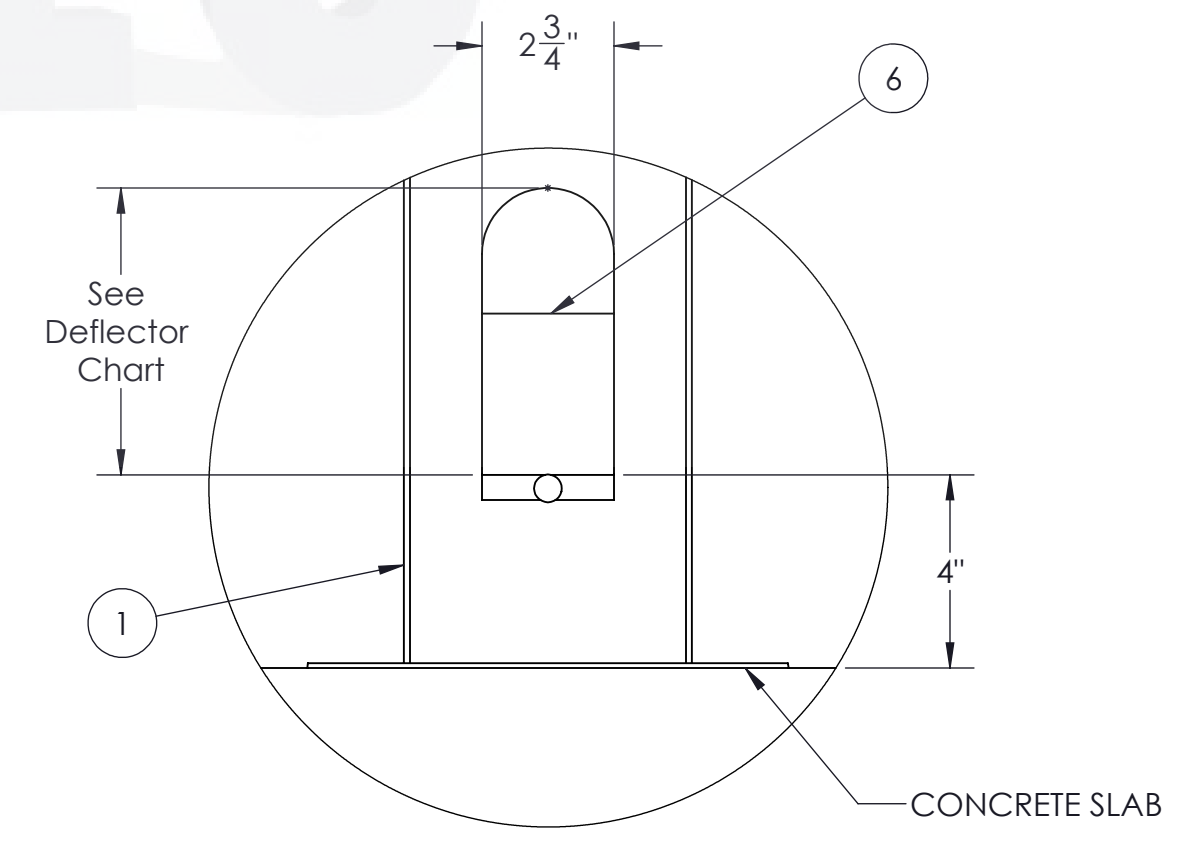
COLUMN DRAIN HOLE DETAIL
SCALE 1 : 4

2 3/4"
See Deflector Chart
4"

CONCRETE SLAB

Deflector Plate Cutout Height	Column Size
4"	4"x6"
6"	6"x6"
6"	6"x8"

STYLE:
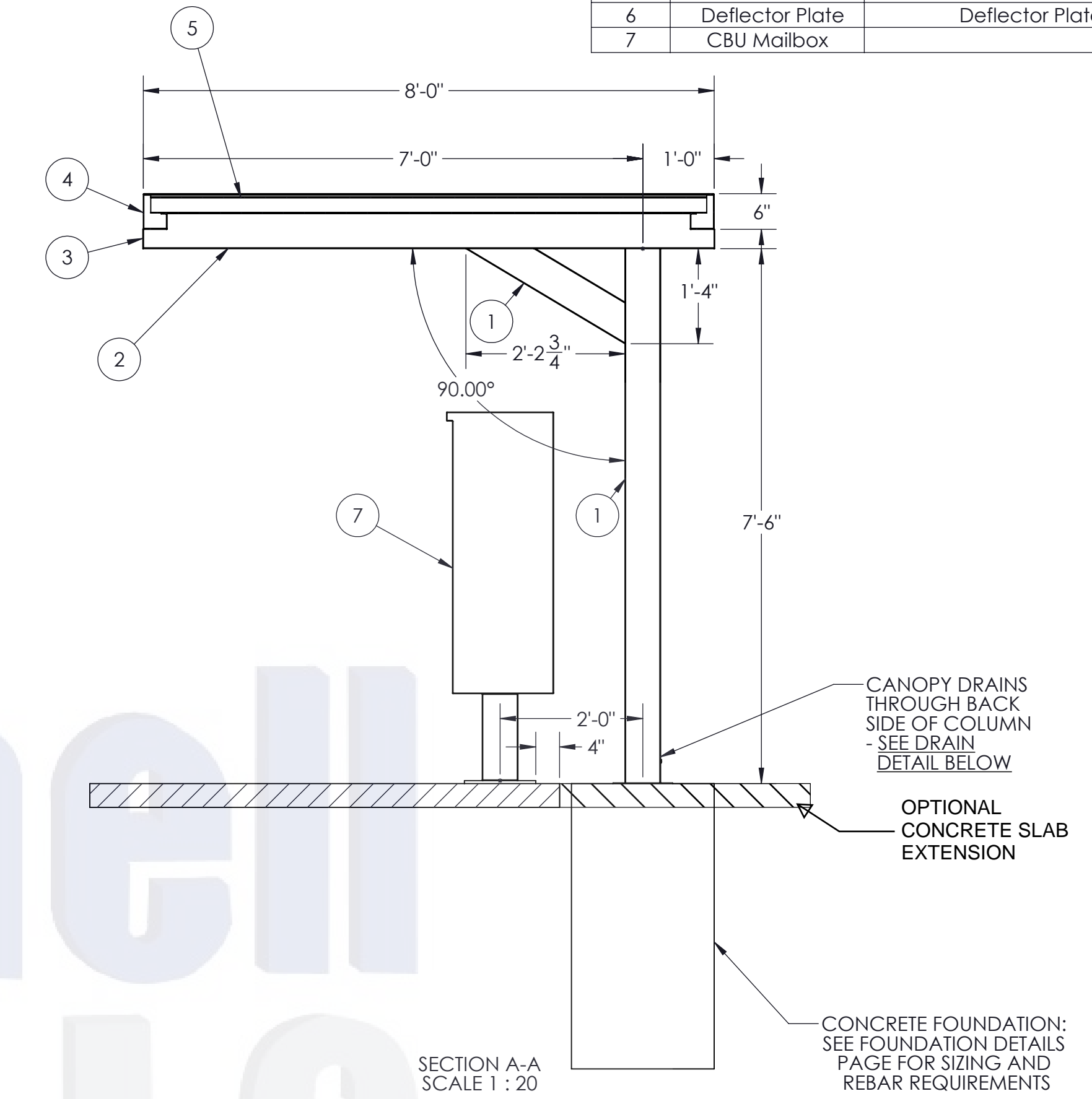
14 CLUSTER BOX UNIT (CBU) CANOPY

Mitchell METALS

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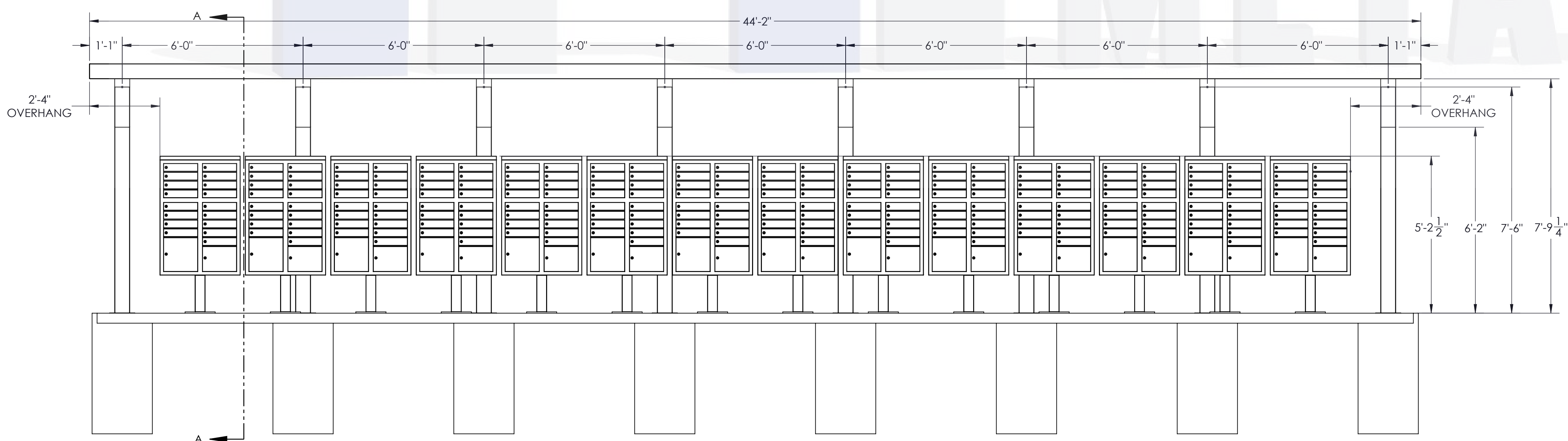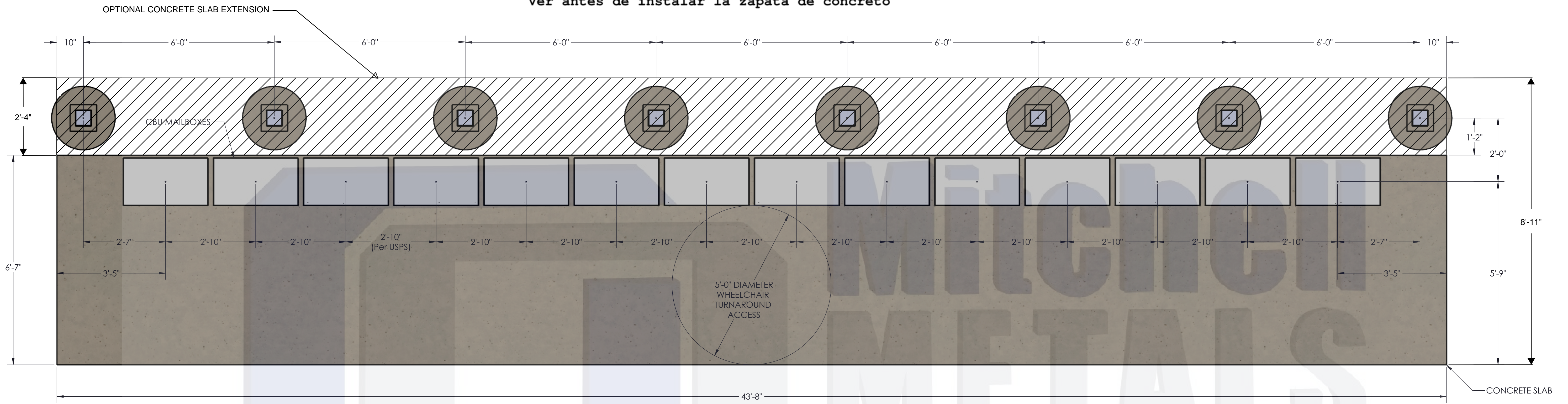are prohibited without prior written consent from Mitchell Metals, LLC.**
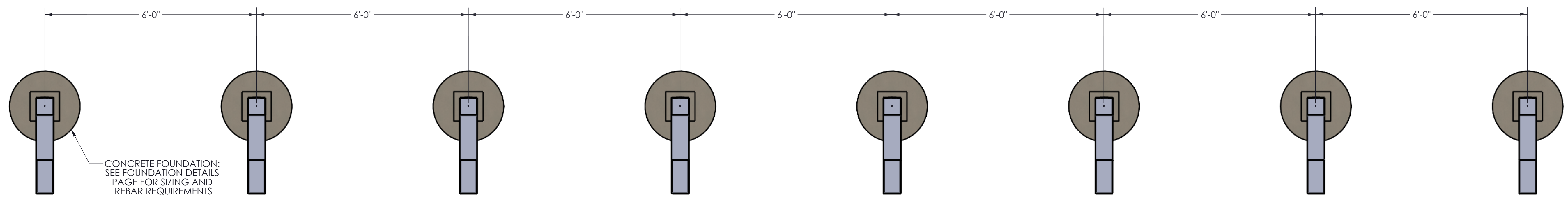
View before Footing and Blockout Installation

Ver antes de instalar la zapata de concreto

GENERAL NOTES:
- Max column height to be 9'-0". Canopy designed at 7'-6" to bottom of beam above finished concrete slab.
- See Foundation Details Page for concrete foundation design based on project location design criteria.
- Minimum footing size is based on 1500 PSF soil condtion.
- Adhere to all local building codes, including layout, foundation design and depth (i.e. frost line depth).
- Canopy designs comply with USPS Developers and Builders Guide.
- Any canopy lighting required is provided by others and may require additional canopy framing to support.
- Reference 2010 ADA Standards for Accessible Design for concrete pad design.
- Reference Mitchell Metals CBU Canopy Cover Specifications - Section 105500 - Postal Specialties
- <u>DESIGN CRITERIA</u>: IBC 2018, ASCE 7-16, ADM 2015, Exposure Category = B, Risk Category = II, Live Load = 20 psf
  - **Wind = 115mph (max), Ground Snow Load = 30psf (max) - 6"x6"x0.150" Columns, 6"x6"x0.130" Beams**
  - **Wind = 140mph (max), Ground Snow Load = 5psf (max) - 6"x6"x0.150" Columns, 6"x6"x0.130" Beams**
  - **Wind = 170mph (max), Ground Snow Load = 5psf (max) - 6"x8"x0.188" Columns, 6"x6"x0.130" Beams.**

OPTIONAL CONCRETE SLAB EXTENSION

CBU MAILBOXES

10" | 6'-0" | 6'-0" | 6'-0" | 6'-0" | 6'-0" | 6'-0" | 10"

2'-4"

1'-2"
2'-0"

8'-11"

6'-7"

2'-7" | 2'-10" | 2'-10" (Per USPS) | 2'-10" | 2'-10" | 2'-10" | 2'-10" | 2'-10" | 2'-10" | 2'-10" | 2'-10" | 2'-7"

3'-5" | 3'-5"

5'-9"

5'-0" DIAMETER WHEELCHAIR TURNAROUND ACCESS

43'-8"

CONCRETE SLAB

**TOP VIEW
COLUMN/MAILBOX/CONCRETE LAYOUT**

6'-0" | 6'-0" | 6'-0" | 6'-0" | 6'-0" | 6'-0" | 6'-0"

CONCRETE FOUNDATION: SEE FOUNDATION DETAILS PAGE FOR SIZING AND REBAR REQUIREMENTS
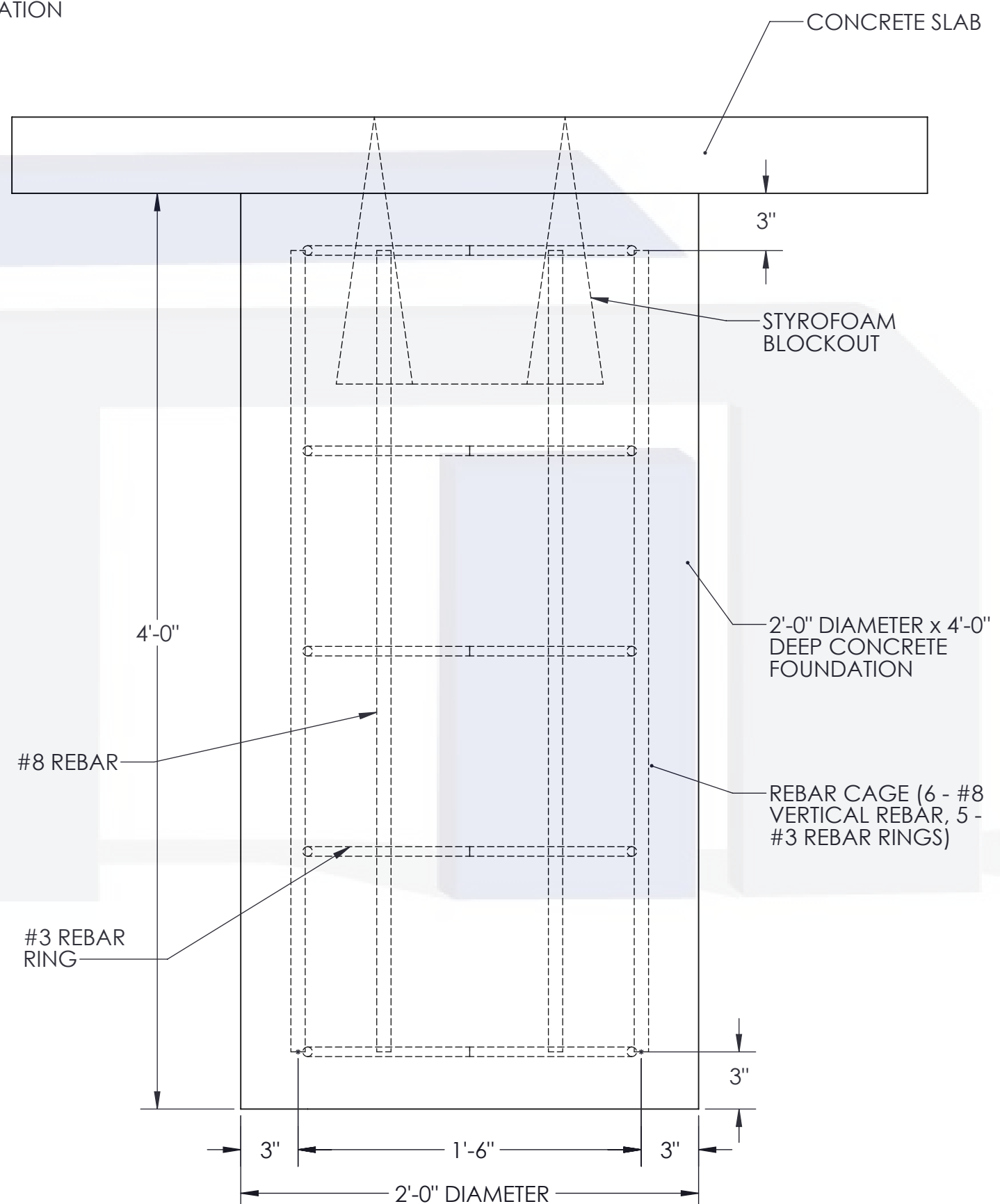
**TOP VIEW LAYOUT
FOOTING & BLOCKOUT**

STYLE:

14 CLUSTER BOX UNIT (CBU) CANOPY

Cantilever CBU Canopy Foundation Design (Up to **115 mph** wind, Exp.=B, Risk Category = II, Ground Snow Load = 30psf AND Up to **140 mph** wind, Exp.=B, Risk Category = II, Ground Snow Load = 5psf
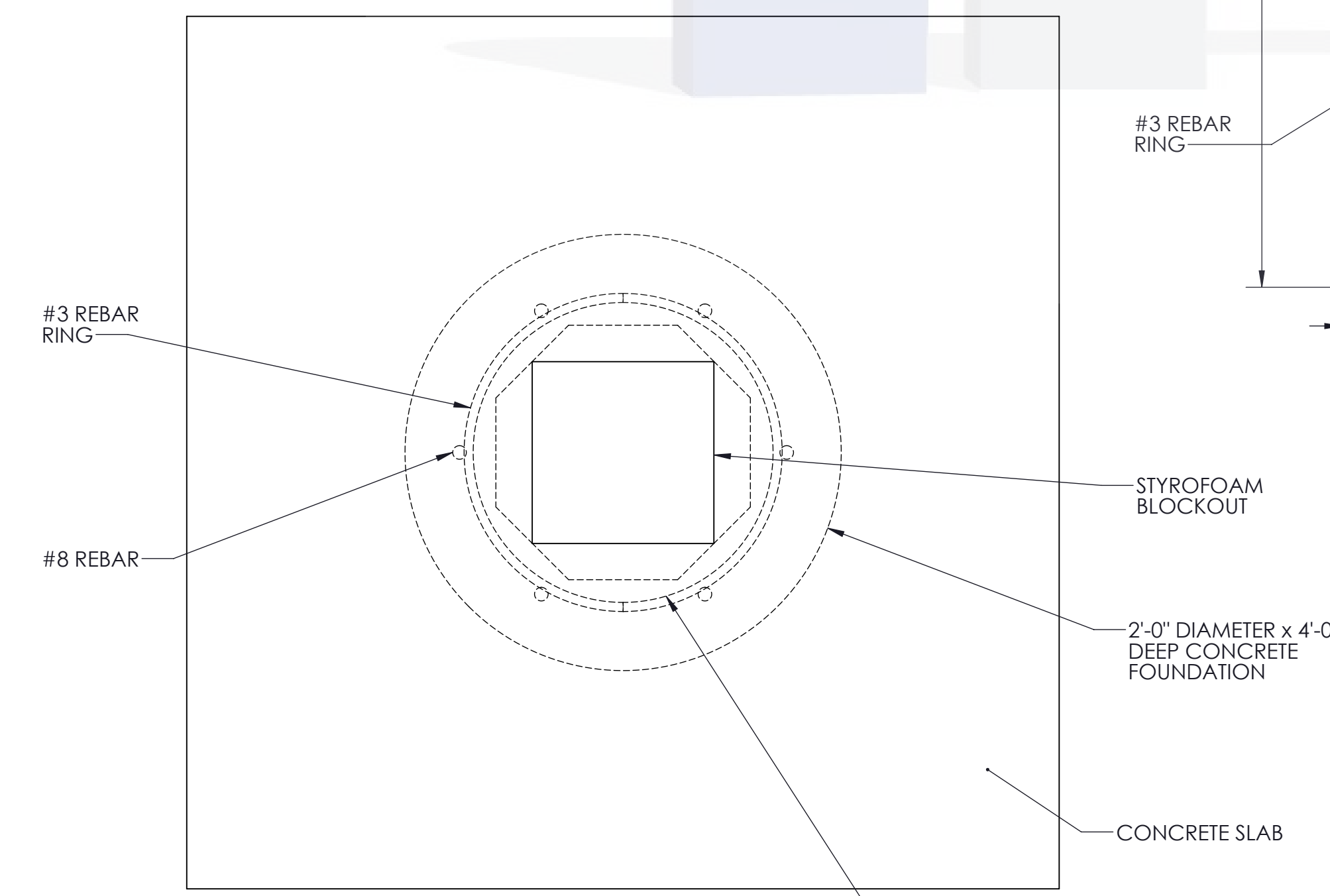
Cantilever CBU Canopy Foundation Design (Up to **170 mph** wind, Exp.=B, Risk Category = II, Ground Snow Load = =0psf

*NOTE: IF NO CONCRETE SLAB IS TO BE INSTALLED ON TOP OF CANOPY FOUNDATION, RECESSS TOP OF STYROFOAM BLOCKOUT TO BE FLUSH WITH TOP OF CANOPY FOUNDATION
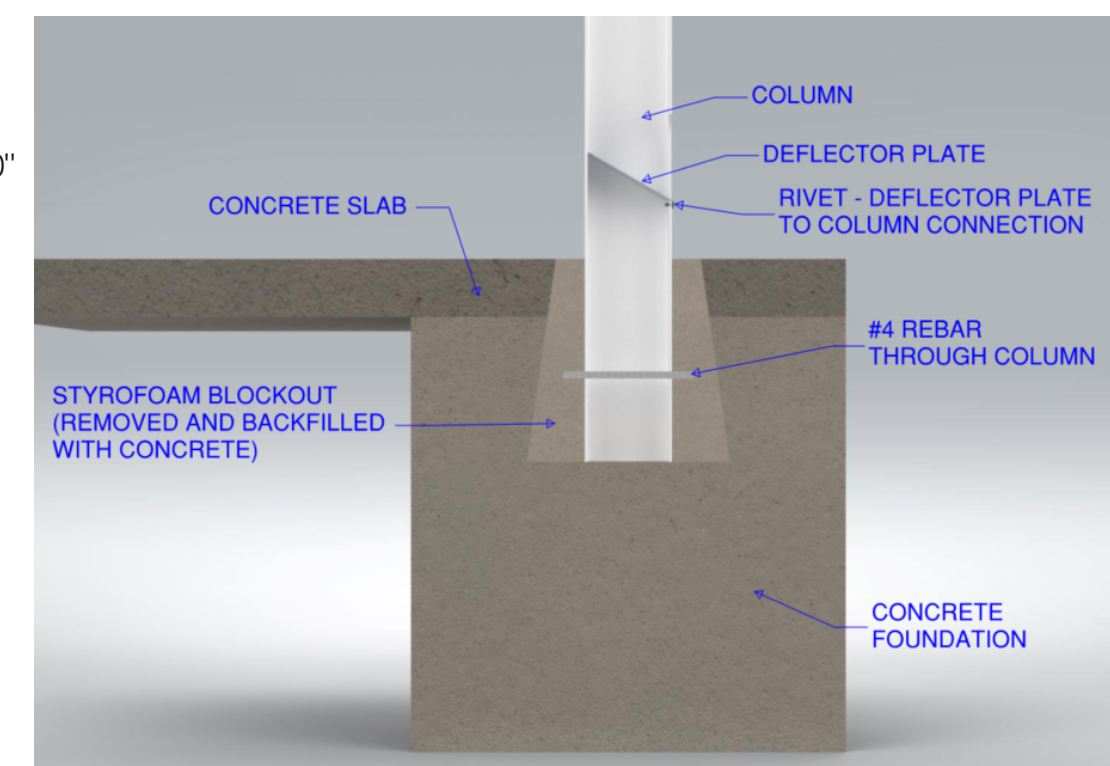
*NOTE: IF NO CONCRETE SLAB IS TO BE INSTALLED ON TOP OF CANOPY FOUNDATION, RECESSS TOP OF STYROFOAM BLOCKOUT TO BE FLUSH WITH TOP OF CANOPY FOUNDATION

STYROFOAM BLOCKOUT
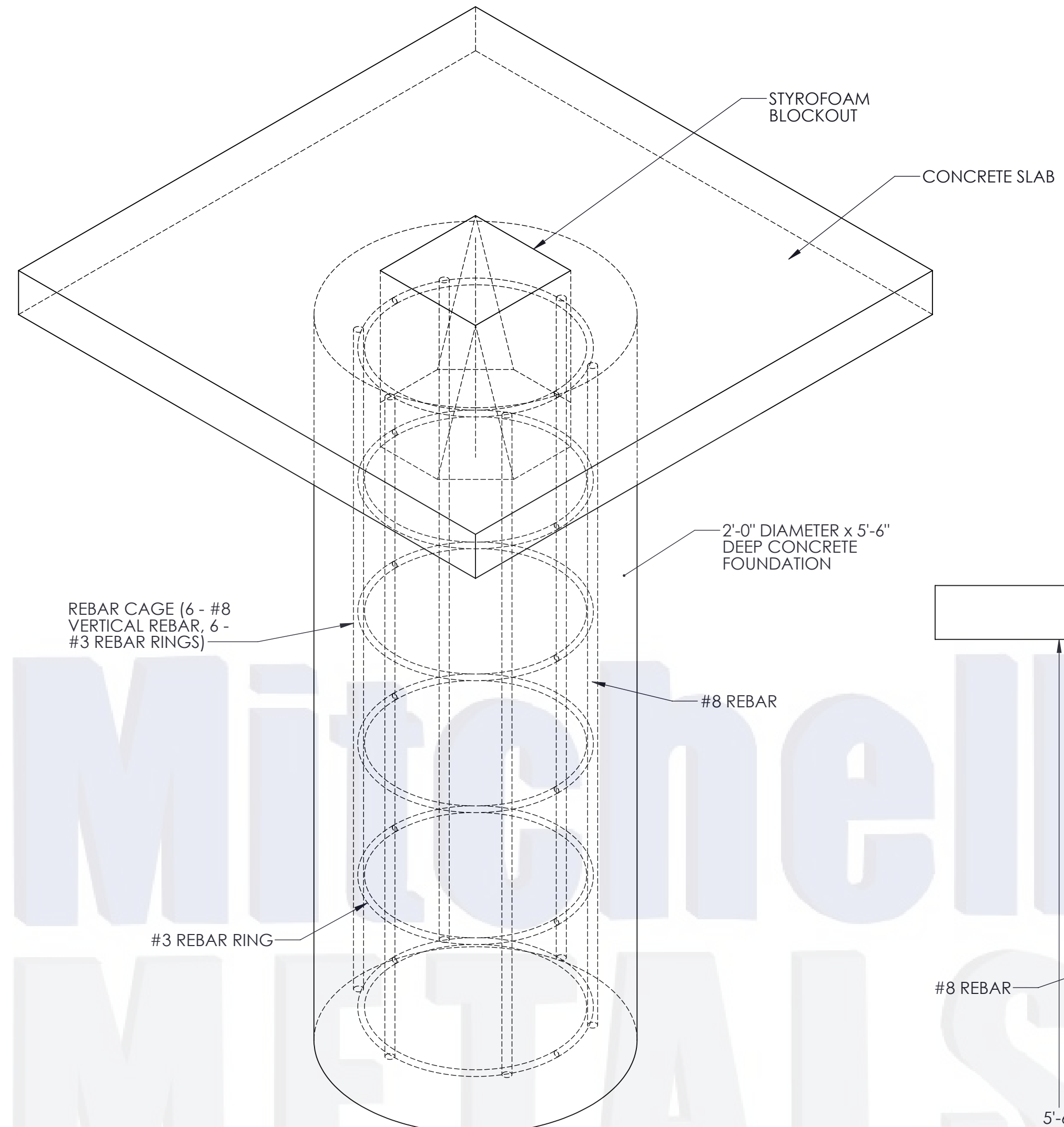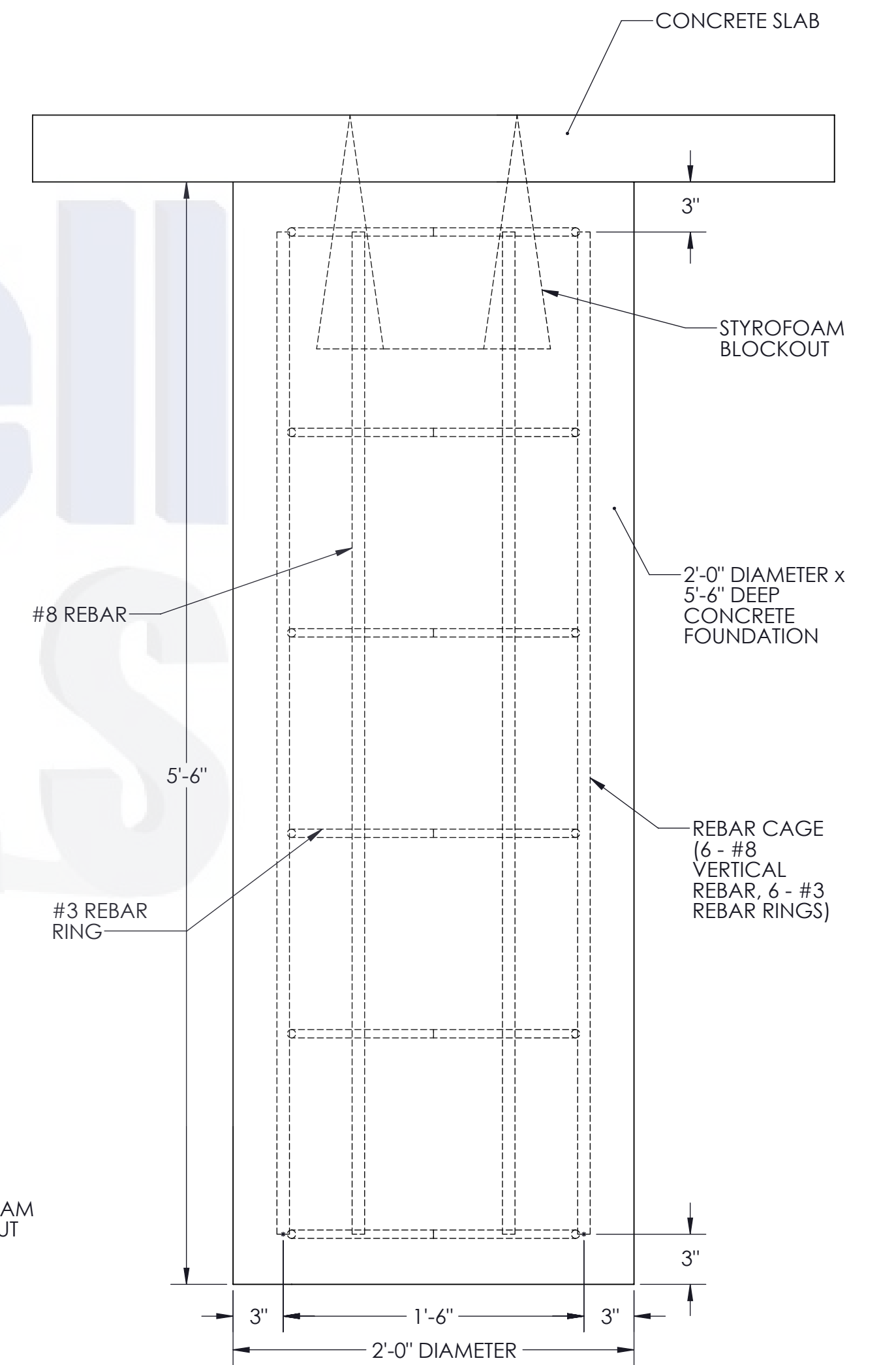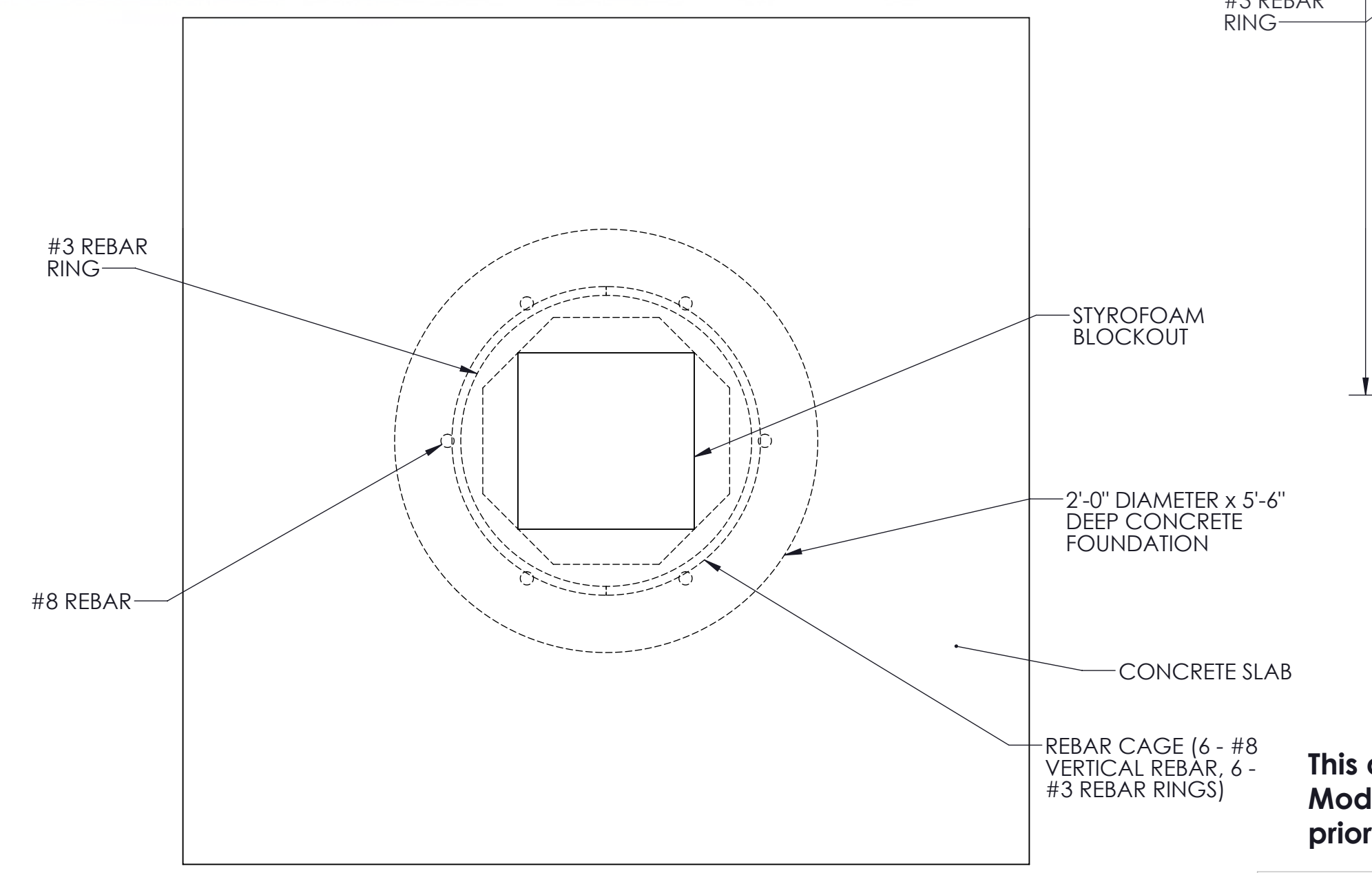
CONCRETE SLAB

2'-0" DIAMETER x 4'-0" DEEP CONCRETE FOUNDATION

REBAR CAGE (6 - #8 VERTICAL REBAR, 5 - #3 REBAR RINGS)

#8 REBAR

#3 REBAR RING

ISOMETRIC VIEW

CONCRETE SLAB

STYROFOAM BLOCKOUT

3"

#8 REBAR

#3 REBAR RING

2'-0" DIAMETER x 4'-0" DEEP CONCRETE FOUNDATION

REBAR CAGE (6 - #8 VERTICAL REBAR, 5 - #3 REBAR RINGS)

4'-0"

3"

3" 1'-6" 3"

2'-0" DIAMETER

SIDE VIEW

#3 REBAR RING

#8 REBAR

STYROFOAM BLOCKOUT

2'-0" DIAMETER x 4'-0" DEEP CONCRETE FOUNDATION

CONCRETE SLAB

REBAR CAGE (6 - #8 VERTICAL REBAR, 5 - #3 REBAR RINGS)

TOP VIEW

COLUMN

DEFLECTOR PLATE

RIVET - DEFLECTOR PLATE TO COLUMN CONNECTION

CONCRETE SLAB

STYROFOAM BLOCKOUT (REMOVED AND BACKFILLED WITH CONCRETE)

#4 REBAR THROUGH COLUMN

CONCRETE FOUNDATION

STYROFOAM BLOCKOUT

CONCRETE SLAB

2'-0" DIAMETER x 5'-6" DEEP CONCRETE FOUNDATION

REBAR CAGE (6 - #8 VERTICAL REBAR, 6 - #3 REBAR RINGS)

#8 REBAR

#3 REBAR RING

ISOMETRIC VIEW

CONCRETE SLAB

3"

STYROFOAM BLOCKOUT

2'-0" DIAMETER x 5'-6" DEEP CONCRETE FOUNDATION

#8 REBAR

#3 REBAR RING

REBAR CAGE (6 - #8 VERTICAL REBAR, 6 - #3 REBAR RINGS)

5'-6"

3"

3" 1'-6" 3"

2'-0" DIAMETER

SIDE VIEW

#3 REBAR RING

STYROFOAM BLOCKOUT

2'-0" DIAMETER x 5'-6" DEEP CONCRETE FOUNDATION

#8 REBAR

CONCRETE SLAB

REBAR CAGE (6 - #8 VERTICAL REBAR, 6 - #3 REBAR RINGS)

TOP VIEW

CBU CANOPY FOUNDATION DESIGNS