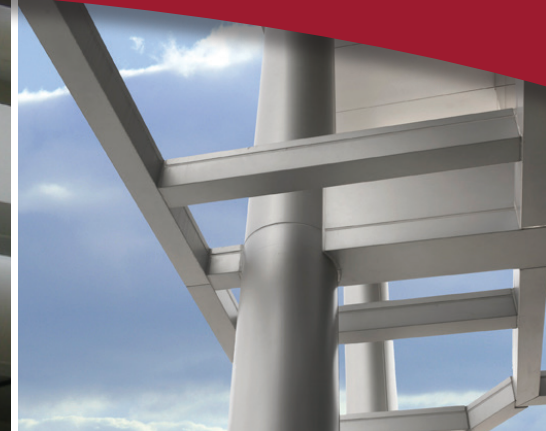


Metalwërks[®] Column and Beam Cladding

Metalwërks[®] Column and Beam Cladding is engineered to provide expanded design flexibility. Beyond typical cylindrical or square tubular enclosures, Metalwërks Column and Beam Cladding takes on virtually any geometrical form as it is manufactured from solid metal plate.

Perfect for enclosing any vertical, sloped, or horizontal structural member – concrete, structural steel, and stud backup – Metalwërks Column and Beam Cladding panels beautifully integrate with Metalwërks plate wall systems.



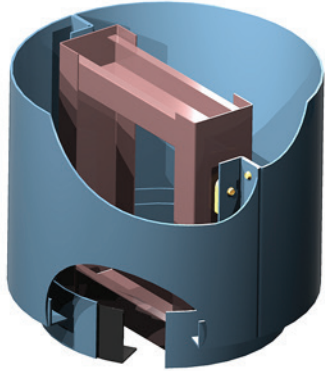
FEATURES AND BENEFITS

- Integrate with Metalwërks plate wall systems or stand-alone applications
- Typically manufactured in solid 0.125" (3.18 mm) or 0.188" (4.78 mm) thick aluminum and 16-12 gauge stainless steel (smooth and textured)
- More abuse resistant than gypsum- or fiberglass-based products or aluminum composite material.
- Can be custom formed to adapt to all types of geometric designs, including curves with radii down to 6"
- Non-Combustible: minimal smoke or fuel contribution
- Avoids NFPA 285 complications by avoiding thermo-plastic cores
- All panel systems are reinforced/stiffened to resist deflection limits
- Vertical butt joints or open 0.625" reveals with recessed batten strip, or backer rod and sealant
- Panels custom manufactured and not limited by minimum production runs
- Metalwërks supplies engineered supports for the enclosure products
- 100% recyclable and manufactured from materials with high post-consumer/ industrial content which can contribute to LEED credits

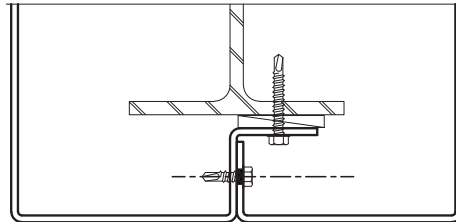
- Virtually limitless palette of colors, finishes, and textures
- Aluminum: high performance finishes are post applied for the highest quality of coverage and uniformity
- Available in no-VOC powder coated finishes. Non-toxic and non-combustible.
- Finish warranties up to 20 years (coated aluminum). Consult Metalwërks for limitations

USES

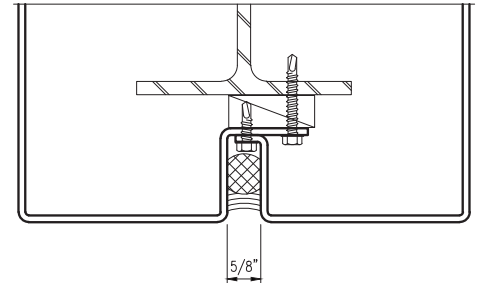
- Enclosures for exposed columns, beams, or pilasters
- Custom duct enclosures
- Enhanced interior lobby aesthetics
- Glazed or non-glazed curtain wall applications
- Available with articulations, reveals and appliqué
- High durability for high traffic areas and transit centers



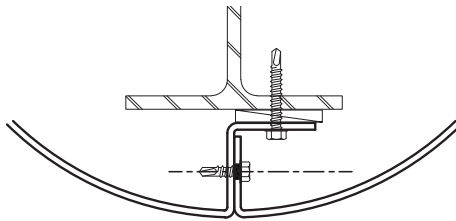
VERTICAL FORMED JOINT



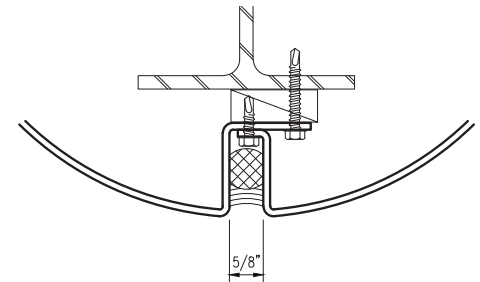
VERTICAL FORMED JOINT WITH REVEAL



VERTICAL CURVED JOINT



VERTICAL CURVED JOINT WITH REVEAL



METAL SUBSTRATE AND FINISH OPTIONS

ALUMINUM PLATE

3003-H14 aluminum alloy-temper

Thickness: 0.125" (3.18 mm) standard, 0.188" (4.78 mm), 0.25" (6.35 mm) options. Consult Metalwërks for additional options.

Finishes: Kynar® or architectural TGIC Polyester powder coating

STAINLESS STEEL

T304 or T316 for enhanced corrosion resistance

Thickness: 14 gauge (0.078") (1.98 mm) standard, 12 gauge (0.101") (2.78 mm), 16 gauge (0.063") (1.60 mm) options

Finishes: #4, #6, #8, and non-directional satin in smooth or custom embossed patterns

ZINC

Consult with Metalwërks for options

Zinc is a natural metal which has specific properties that will limit its use. It must be adequately drained, ventilated and weeped when used in exterior applications to prevent excessive corrosion. Please consult Metalwërks for the appropriate uses for your project design.

PANEL SIZES

Profiles: Curved and Formed: 12" (305 mm) to 66" (1,676 mm)*

Lengths: Curved: 12" (305 mm) to 192" (4,877 mm)*

Formed: 12" (305 mm) to 240" (6,096 mm)*

Depth: Varies

* Maximum panel size depends upon plate material, gauge, finish, and geometry

PANEL WEIGHT

Consult with Metalwërks for options

SHAPES OR PROFILES

Round or square

Elliptical & racetrack ovals

Conical or tapered

Non symmetrical articulations

ACCESSORIES

Support framing

Articulated capitals and bases

"Snug fit" spring loaded ceiling closures

Welded mitered sections, end caps, base reveals beam penetrations

Access doors

Sloped base, ceiling terminations

Curved base, ceiling terminations

Extruded or formed appliqué.

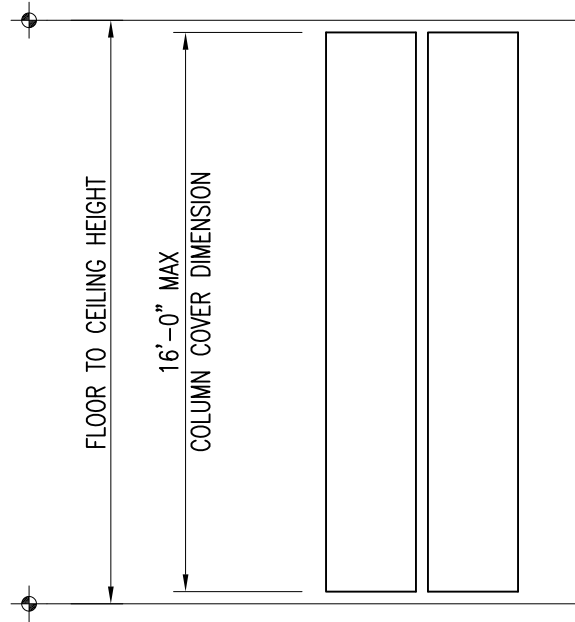
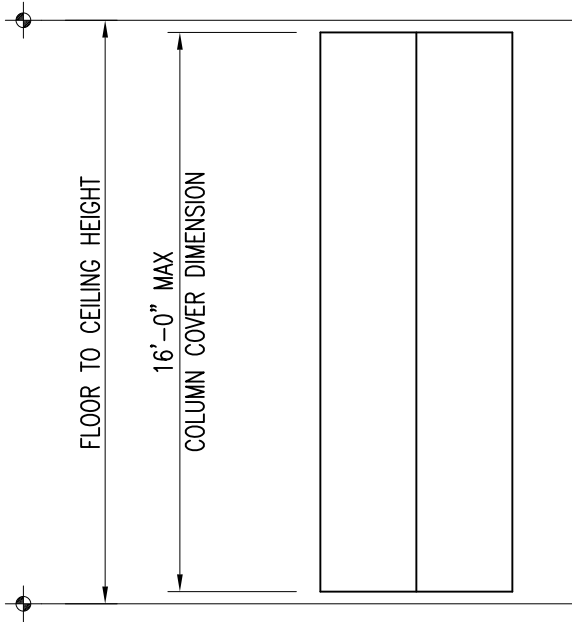
Accent color reveals

WARRANTY

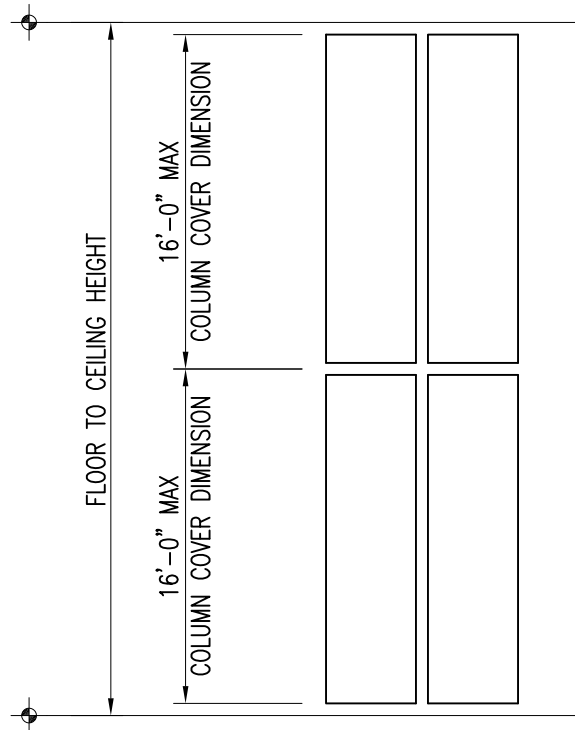
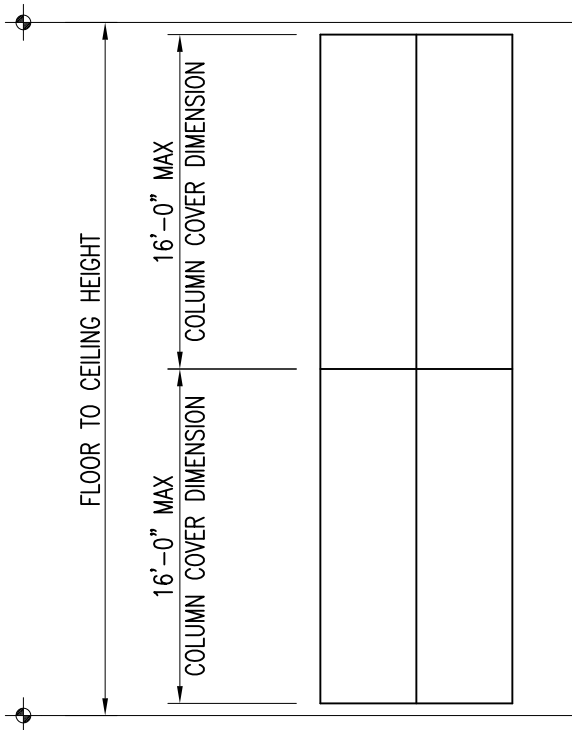
Material & Workmanship: 1-year standard, with 2- or 5-year options

Finish Integrity: 10-year standard and up to 20-year for coated aluminum

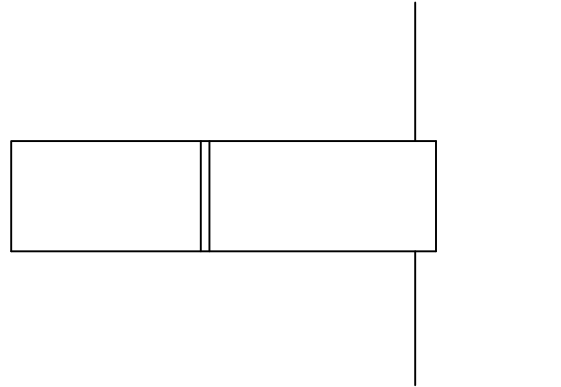
Column and Beam Cladding



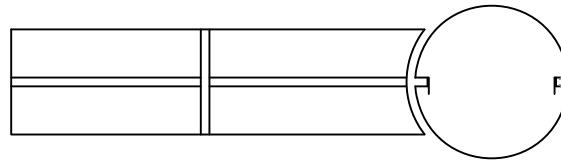
SINGLE SPAN COLUMN COVERS



MUTIPLE SPAN COLUMN COVERS



SIDE VIEW



PLAN VIEW

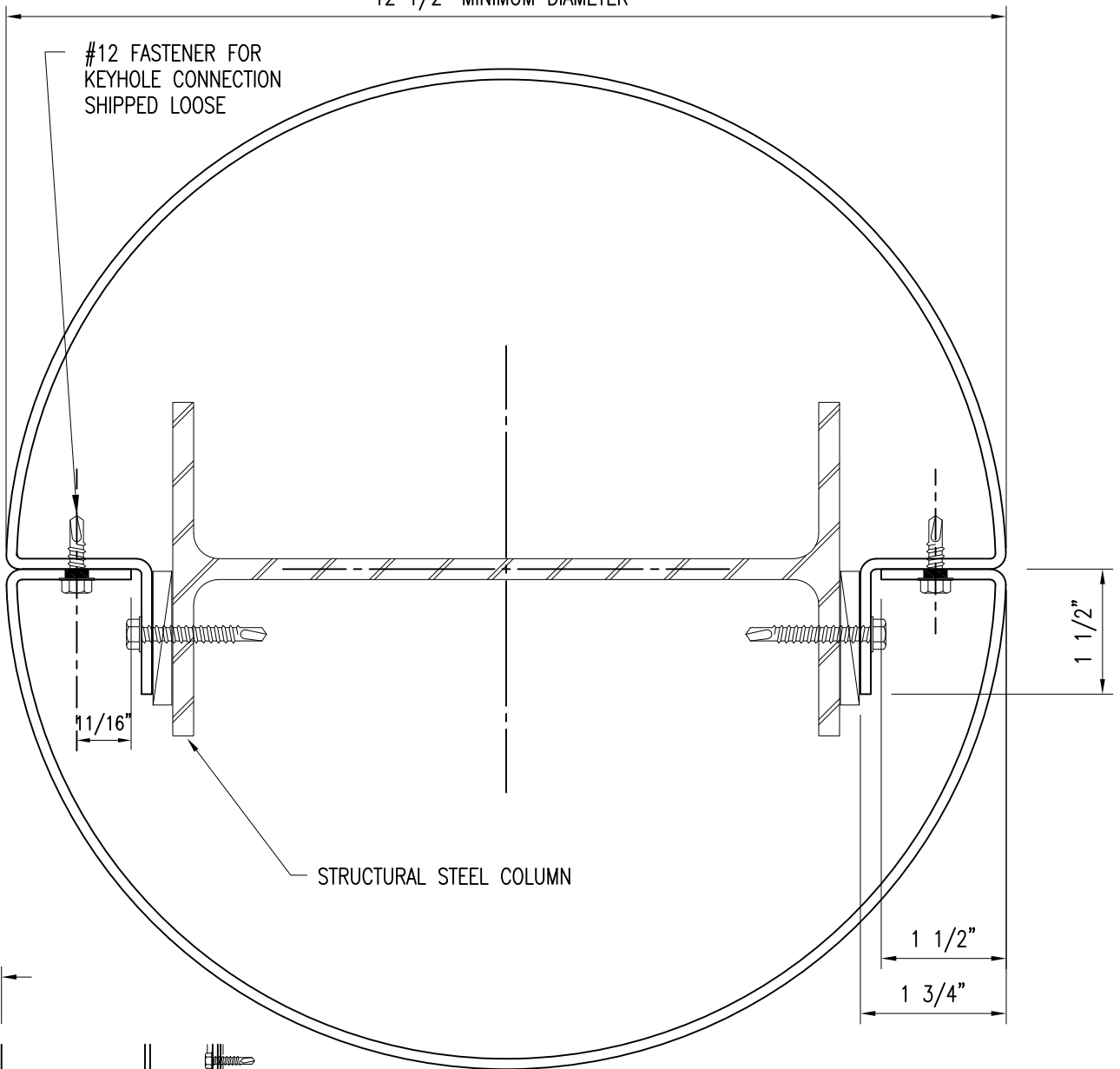
Beam Wraps

Table of Contents:

DETAIL	DESCRIPTION
1	Vertical Butt Joint Connection w/ Key Hole
2	Vertical Butt Joint Connection w/ Key Hole for Square Column Enclosure
3	Vertical Joint Reveal w/ Caulk
4	Optional Vertical Joint Reveal w/ Batten
5	Framing Options
6	Standard Head and Base
7	Optional Head and Base Reveal
8	Optional Adjustable Spring Ring at Column Cover Head
9	Optional Reveals at Sealed Column Covers
10	Optional Head
11	Standard Horizontal Joint
12	Optional Horizontal Joint
13	Standard Beam Wrap
14	Optional Column Cover and Beam Wrap Profiles

12 1/2" MINIMUM DIAMETER*

#12 FASTENER FOR KEYHOLE CONNECTION SHIPPED LOOSE



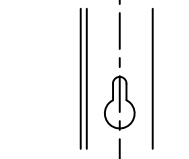
STRUCTURAL STEEL COLUMN

11/16"

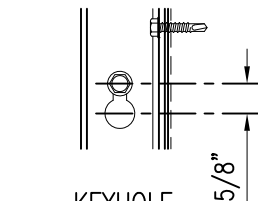
1 1/2"

1 3/4"

1 1/2"



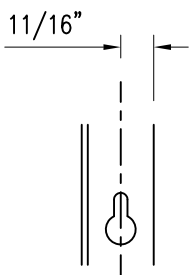
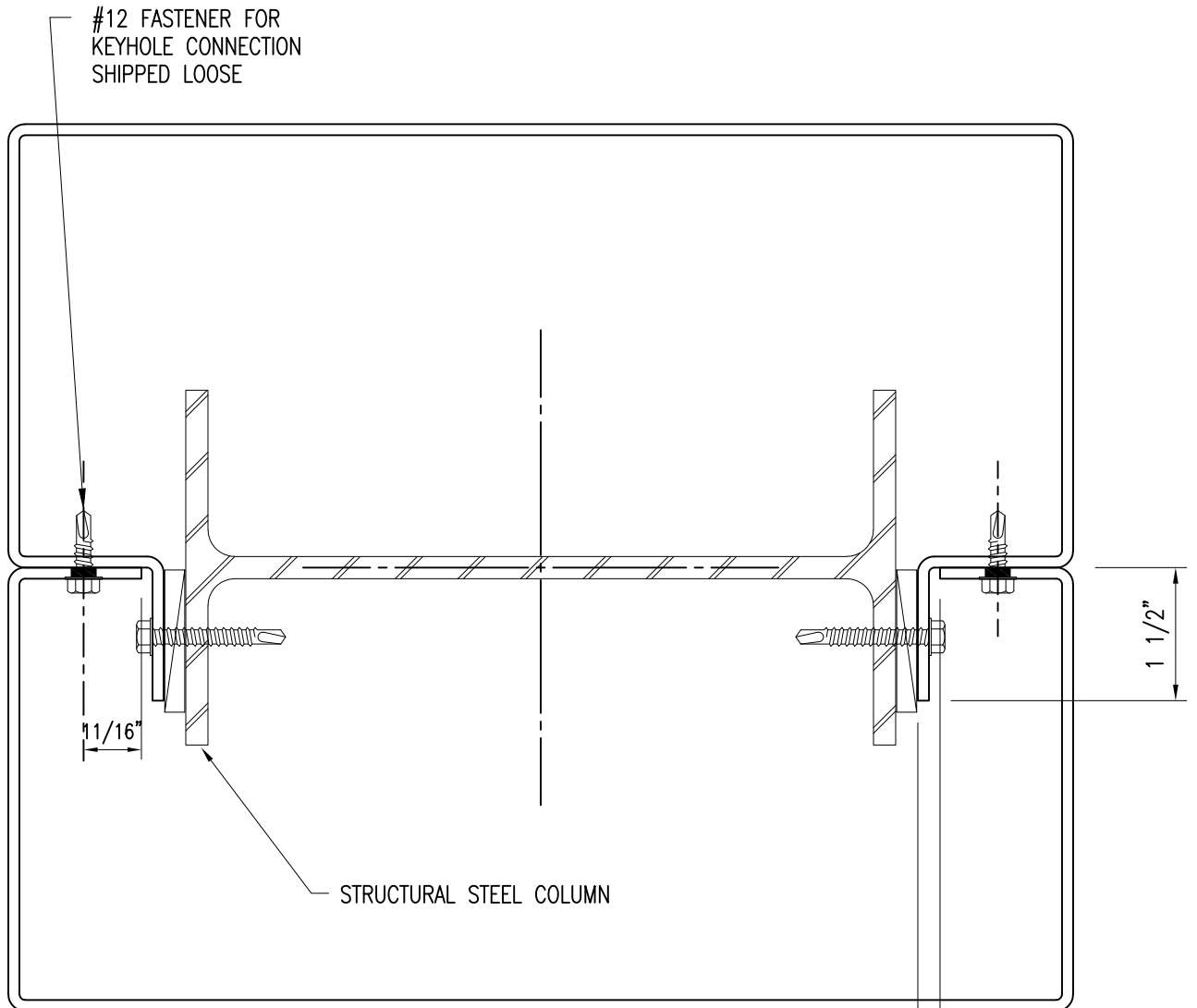
KEYHOLE
SLOT PUNCH



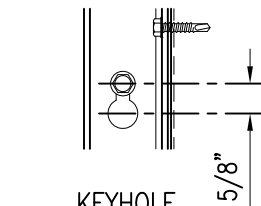
KEYHOLE
ENGAGEMENT DETAIL
5/8"

*FOR DIAMETERS SMALLER THAN 12 1/2", PLEASE CONSULT METALWERKS

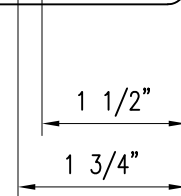
1) Vertical Butt Joint Connection w/ Key Hole



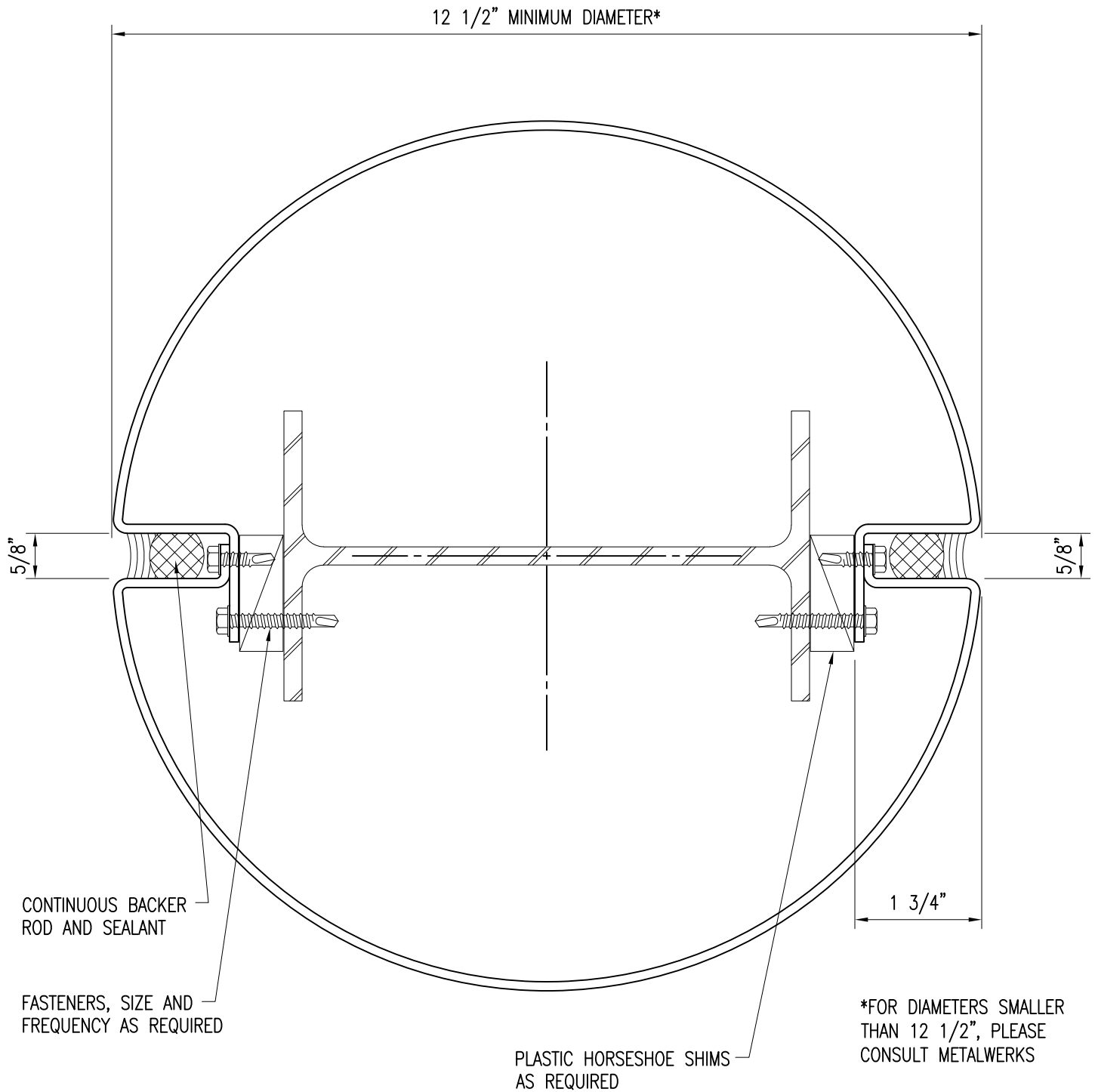
KEYHOLE
SLOT PUNCH



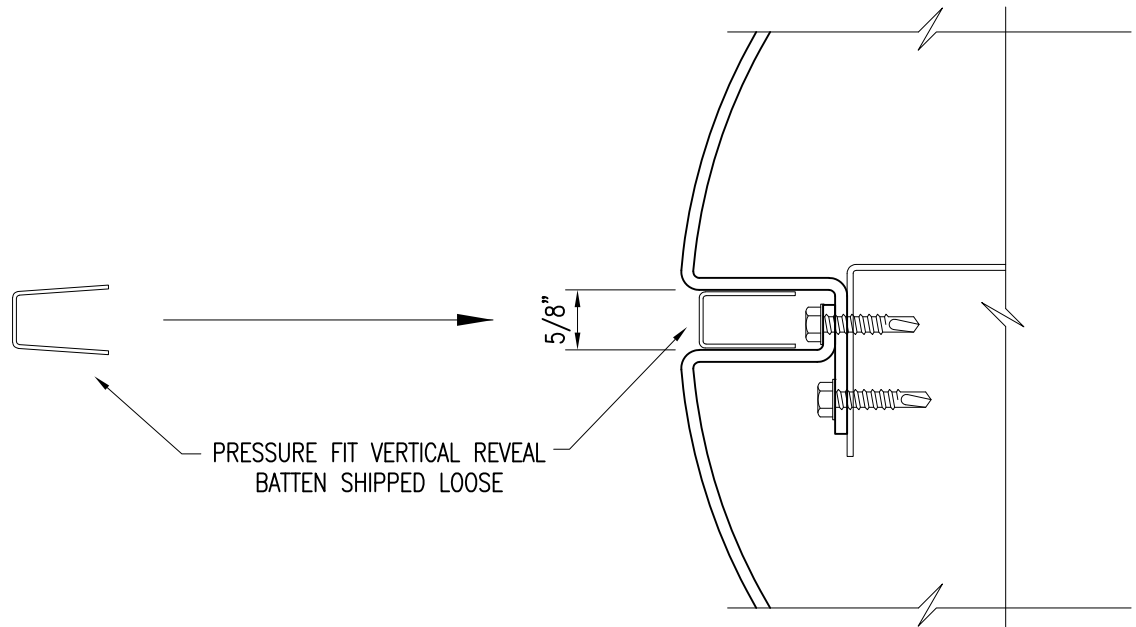
KEYHOLE
ENGAGEMENT DETAIL



2) Vertical Butt Joint Connection w/ Key Hole for Square Column Enclosure

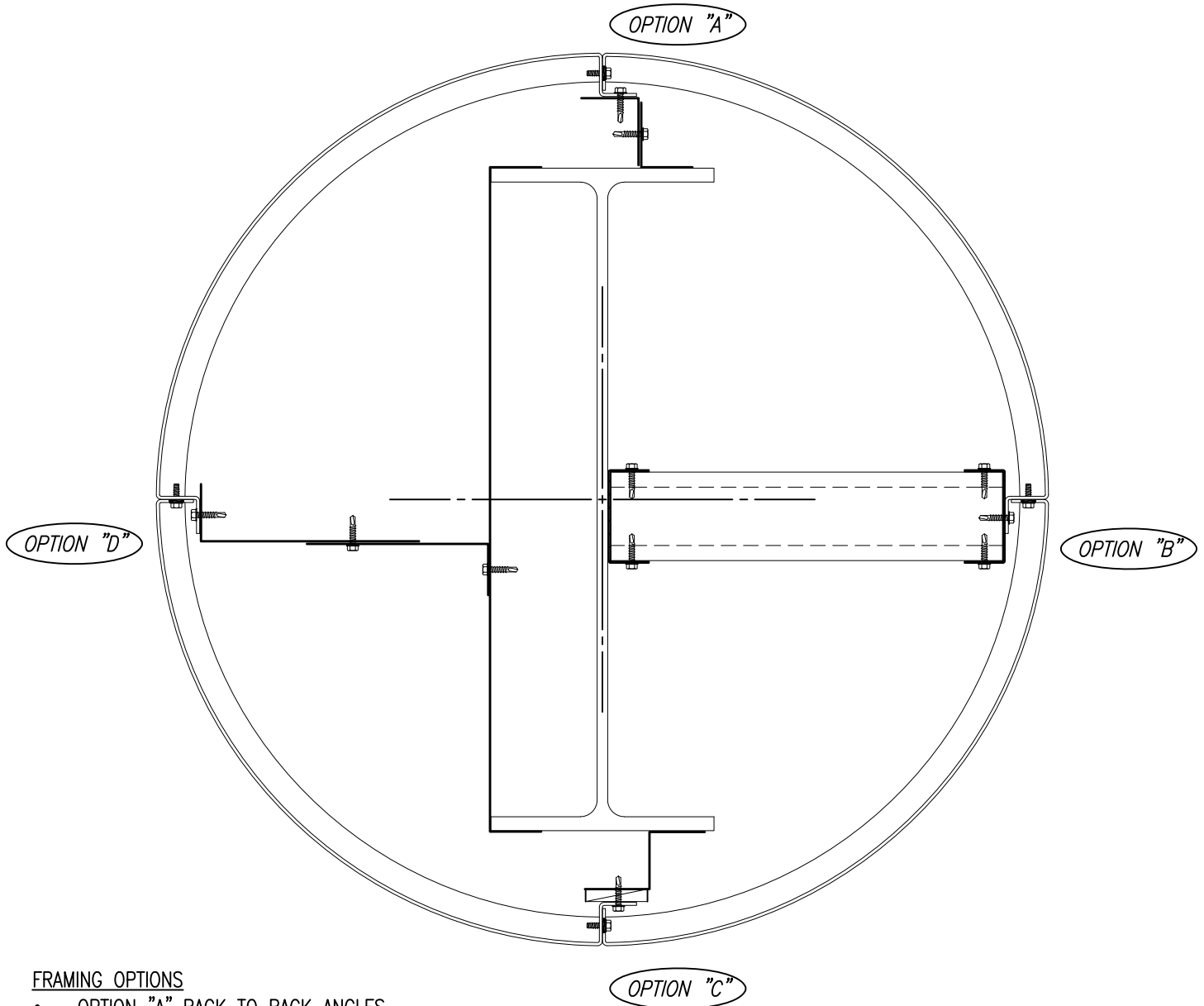


3) Vertical Joint Reveal w/ Caulk



VERTICAL REVEAL JOINT DETAIL
WITH BATTEN

4) Optional Vertical Joint Reveal w/ Batten

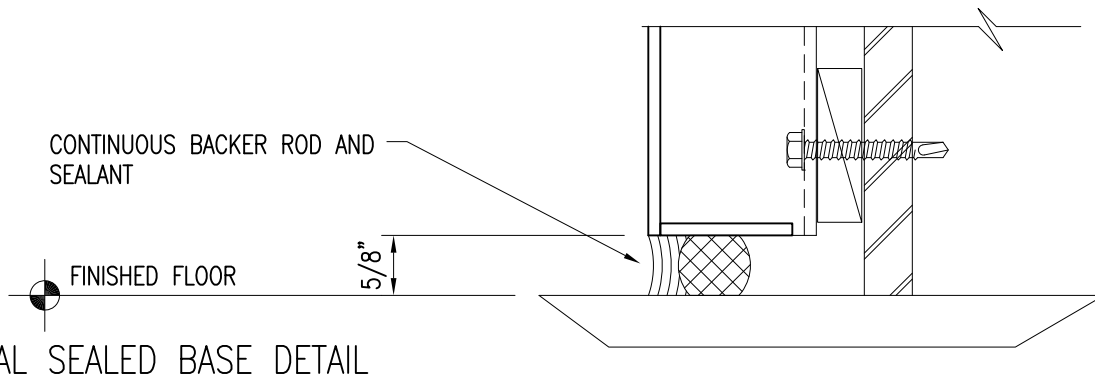
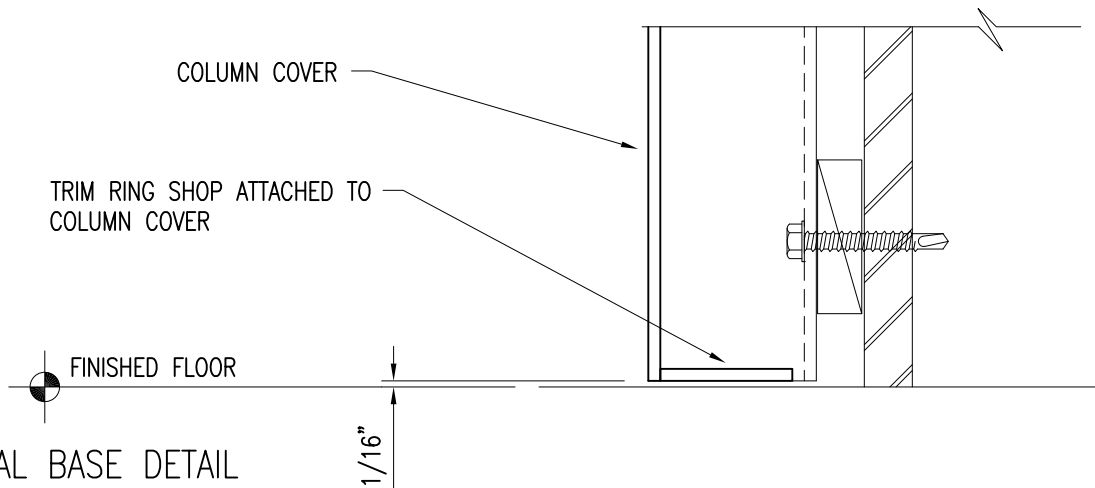
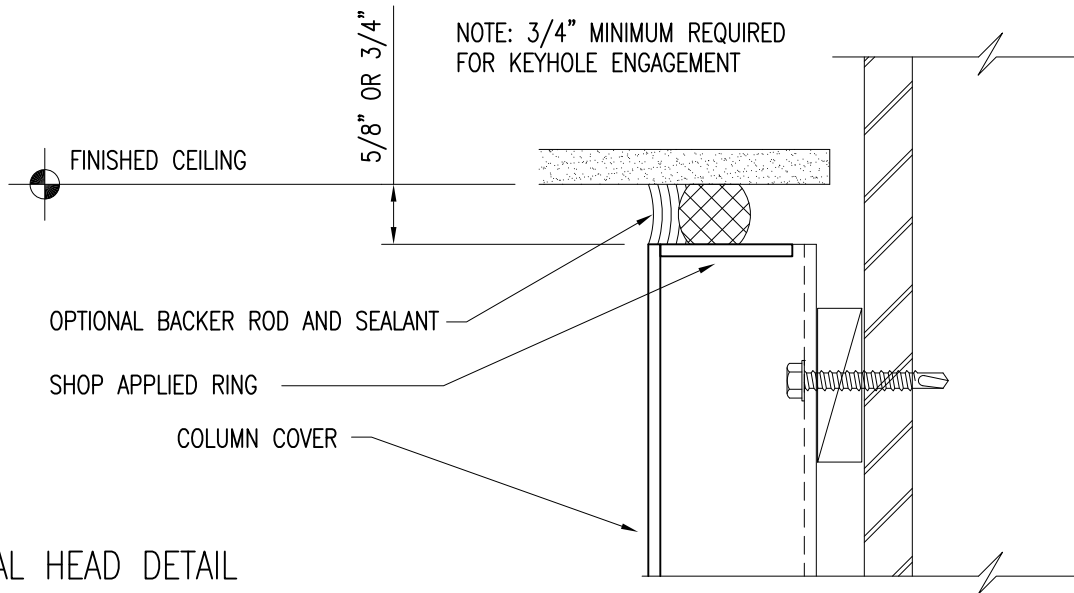


FRAMING OPTIONS

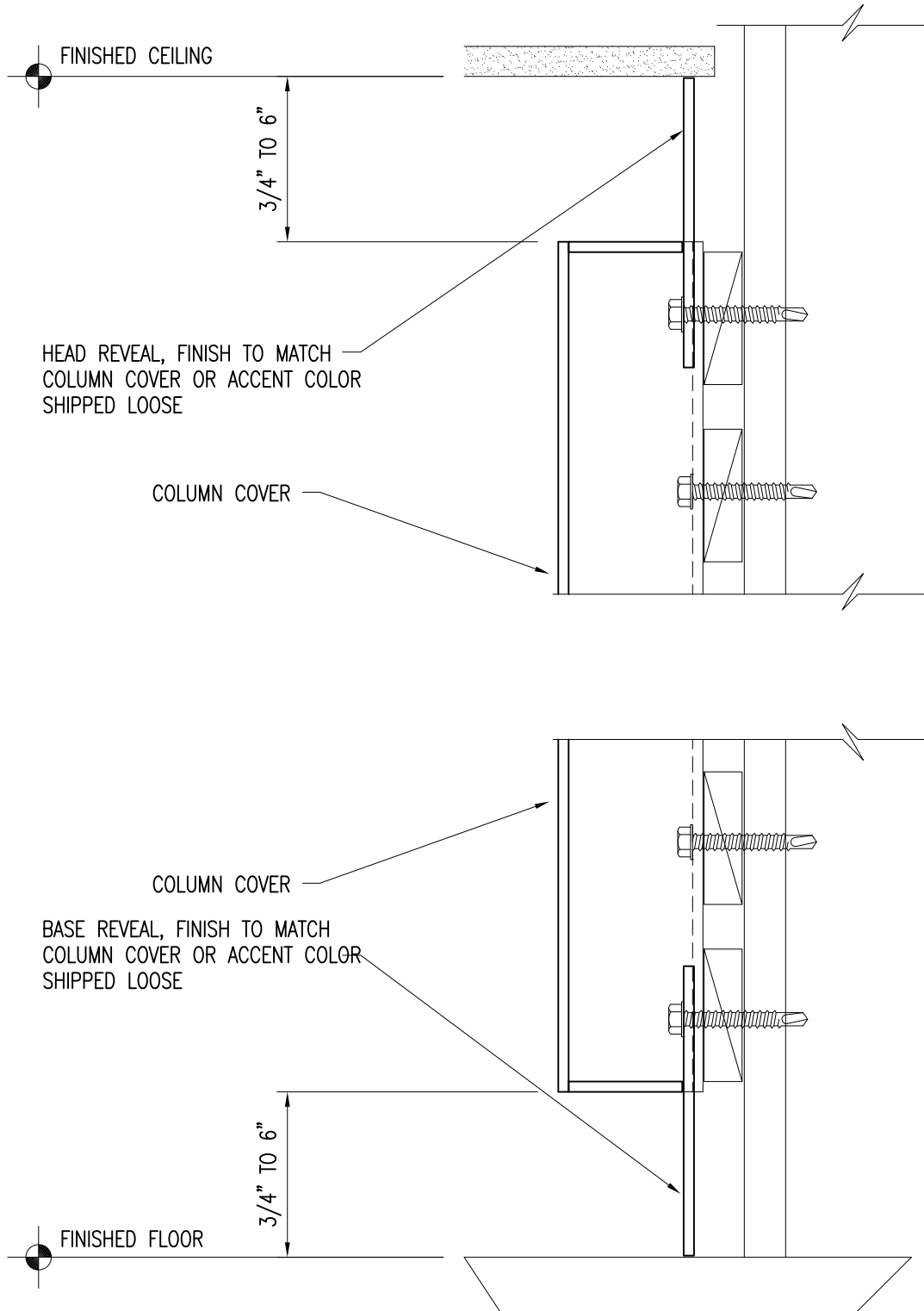
- OPTION "A" BACK TO BACK ANGLES
- OPTION "B" BUILT UP STUD FRAMING
- OPTION "C" CONTINUOUS "ZEE" AND SHIMS
- OPTION "D" CLIP ANGLES SPACED AS REQUIRED

INSTALLATION NOTE:
FIELD ATTACH FRAMING WITH FASTENERS, SHOT & PIN, OR WELD. TO BE DETERMINED
BASED ON LOAD AND SPEC REQUIREMENTS.
FRAMING METHODS CAN BE APPLIED TO ALL VERTICAL JOINT DETAILS.

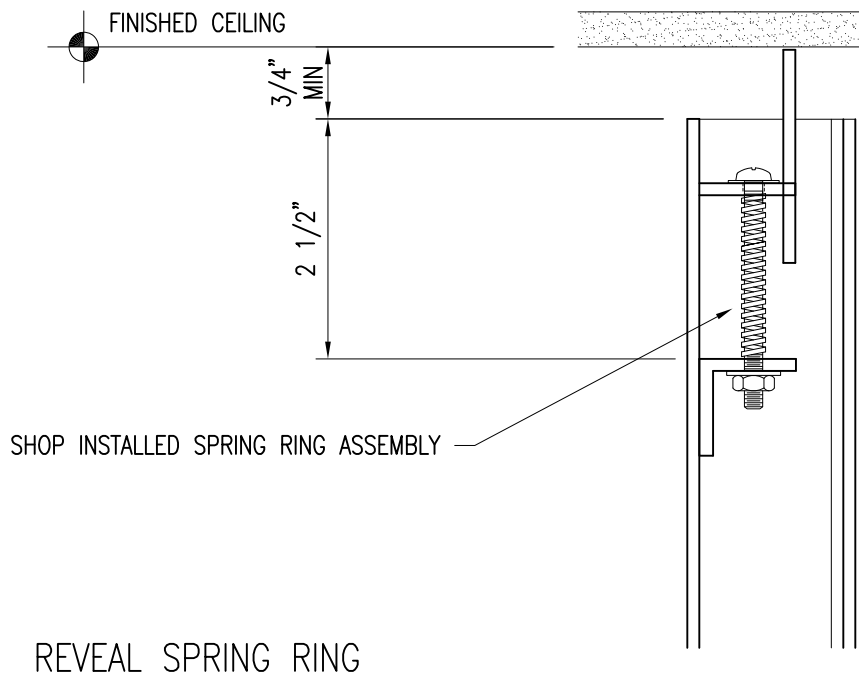
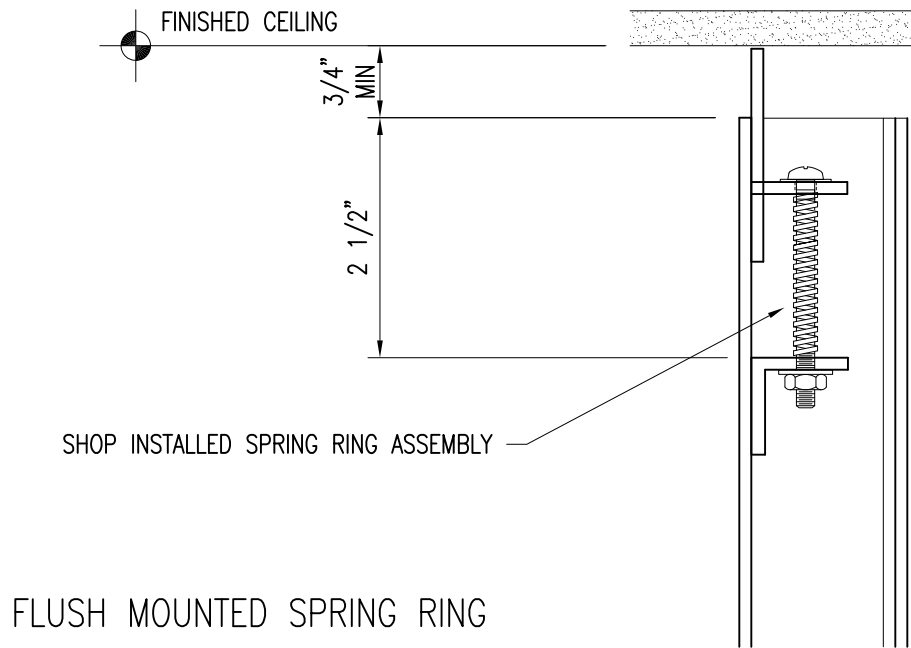
5) Framing Options



6) Standard Head and Base

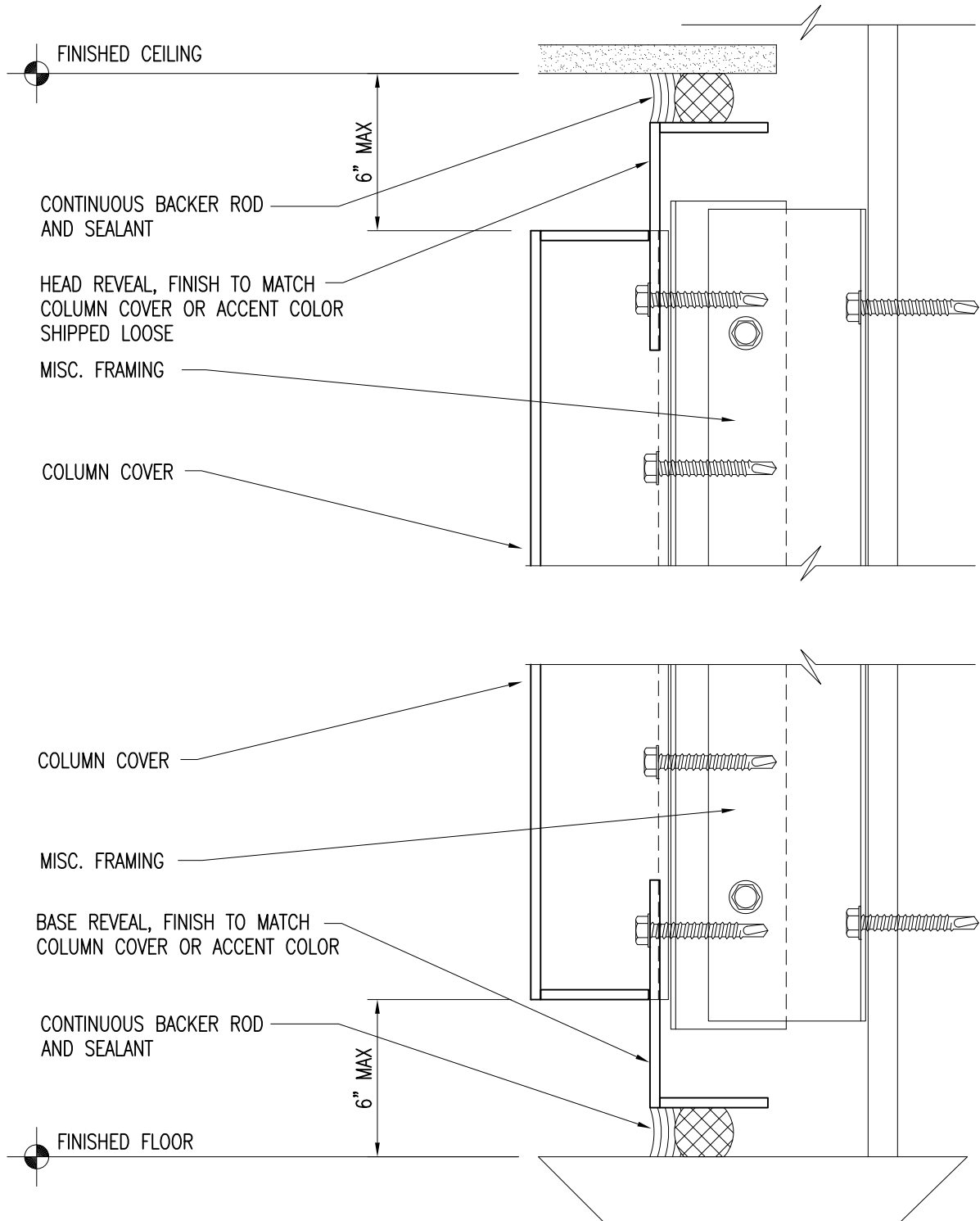


7) Optional Head and Base Reveal

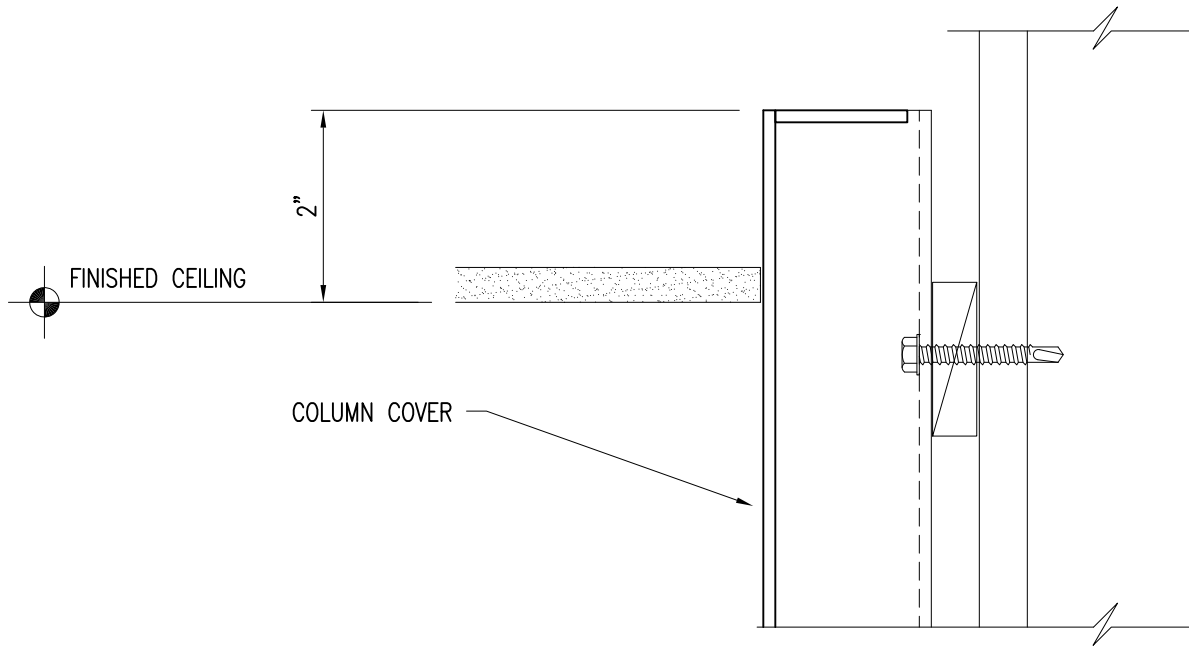


SPRING RING DETAILS NOT
RECOMENDED FOR EXTERNAL USE

8) Optional Adjustable Spring Ring at Column Cover Head

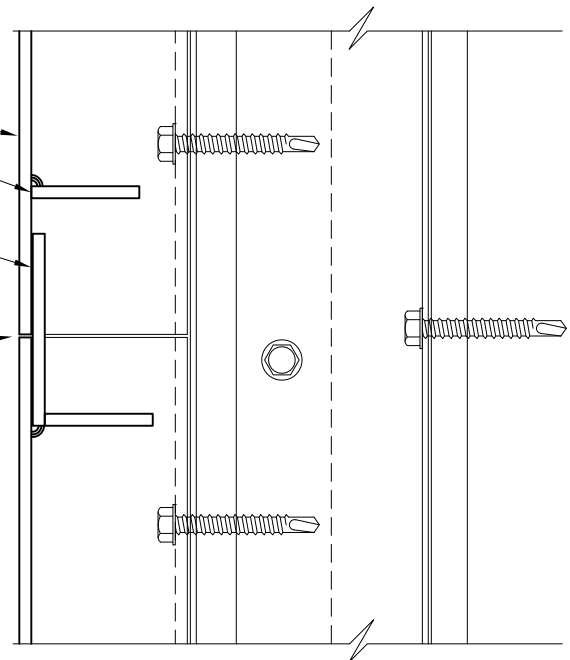


9) Optional Reveals at Sealed Column Covers



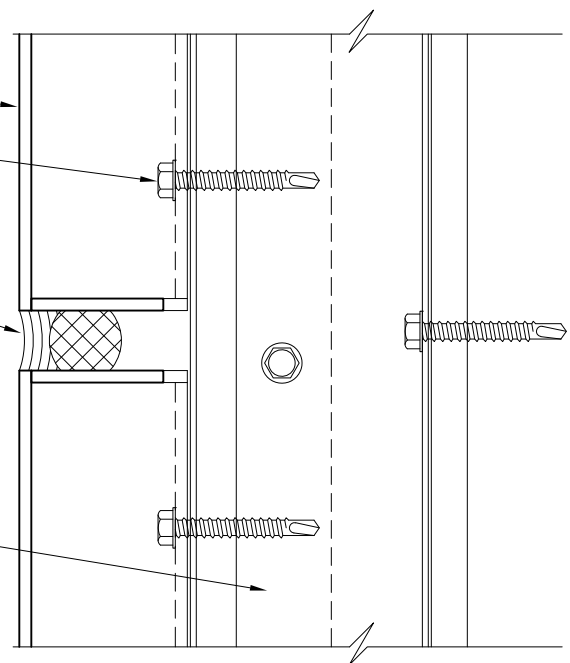
10) Optional Head

COLUMN COVER
 STIFFENER RING SHOP ATTACHED TO COLUMN COVER
 SPLICE PLATE SHOP ATTACHED TO COLUMN COVER
 HAIRLINE JOINT



STANDARD JOINT FOR KEYHOLE SLOT CONNECTION

COLUMN COVER
 #12 FASTENERS AS REQUIRED
 CONTINUOUS BACKER ROD AND SEALANT
 5/8"
 MISC. FRAMING

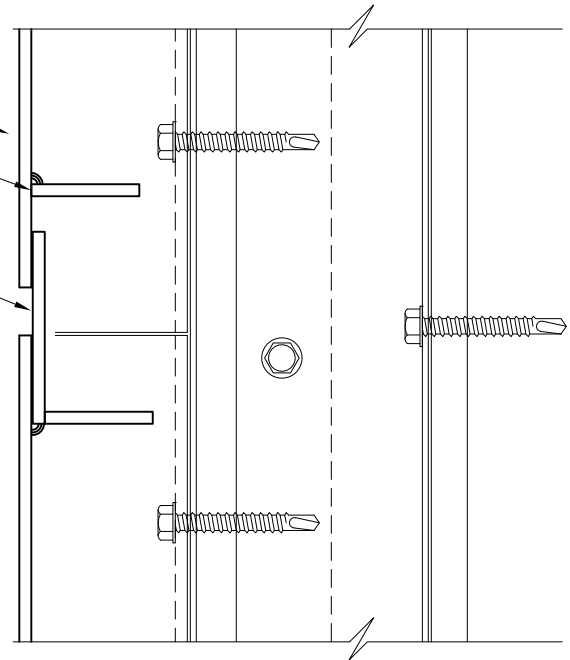


STANDARD JOINT FOR SEALED CONNECTION

11) Standard Horizontal Joint

COLUMN COVER
STIFFENER RING SHOP ATTACHED TO COLUMN COVER
REVEAL SHOP ATTACHED TO COLUMN COVER

1/2"
STANDARD

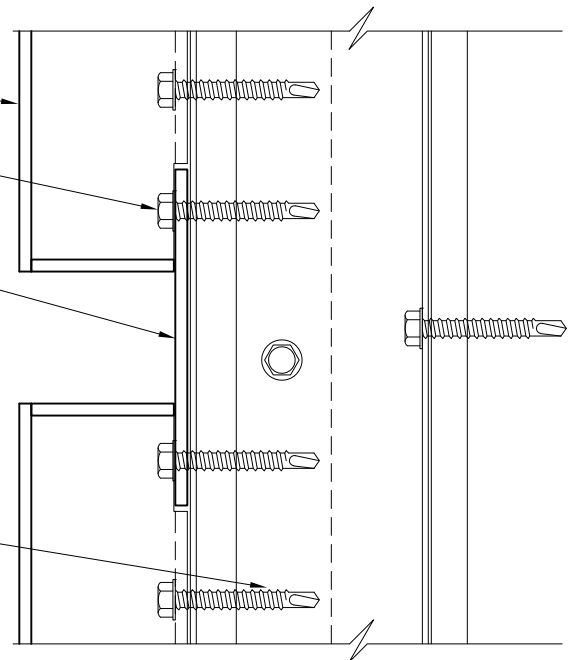


STANDARD JOINT FOR KEYHOLE SLOT CONNECTION

COLUMN COVER
#12 FASTENERS AS REQUIRED
REVEAL RING, FINISH TO MATCH COLUMN COVER OR ACCENT COLOR

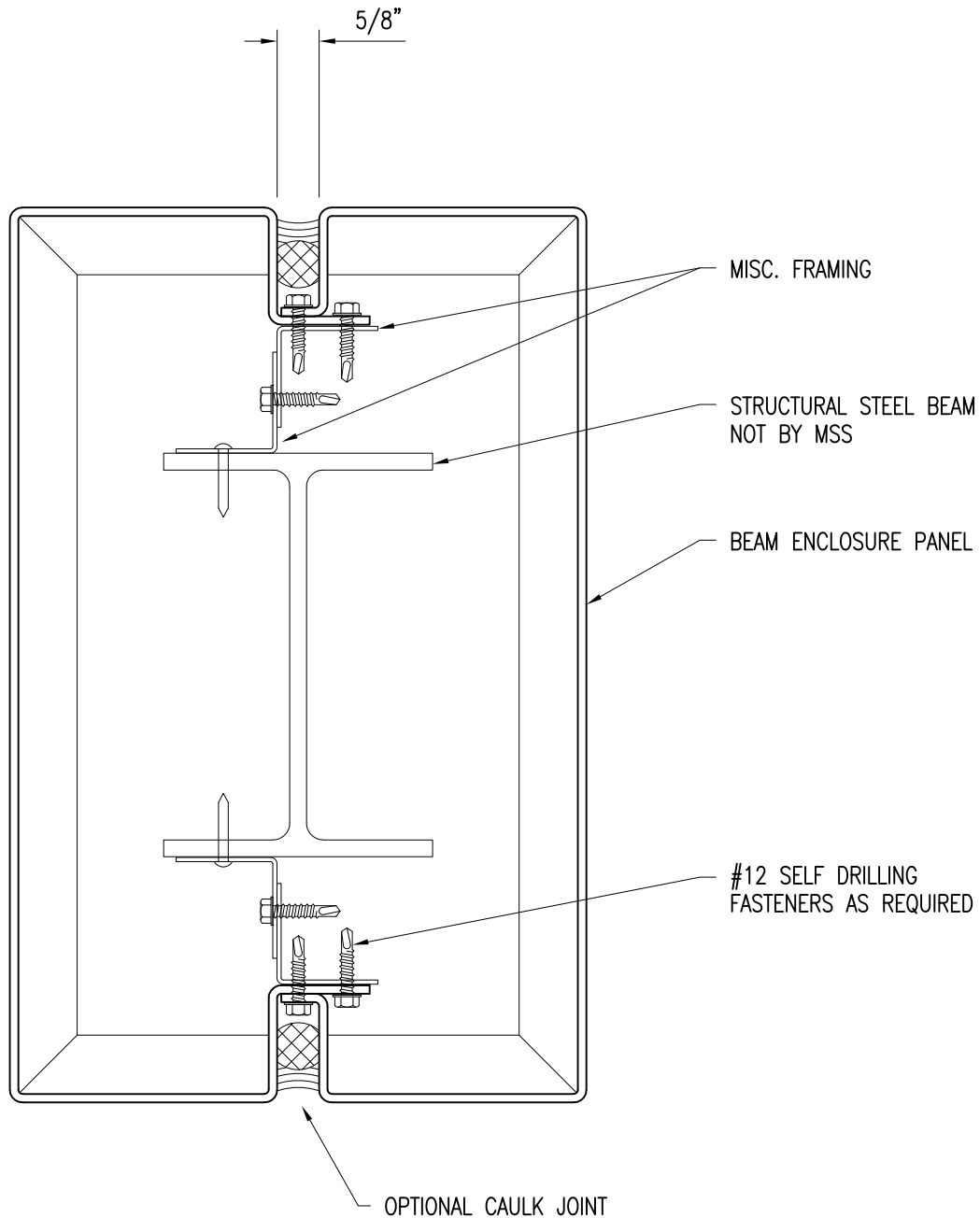
6" MAX

MISC. FRAMING

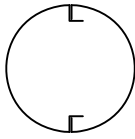


OPTIONAL REVEAL JOINT
RECOMMENDED FOR INTERIOR USE ONLY

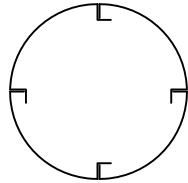
12) Optional Horizontal Joint



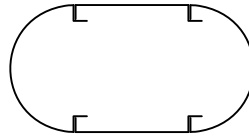
13) Standard Beam Wrap



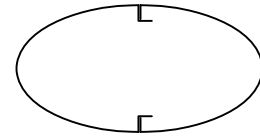
ROUND



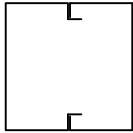
LARGE DIAMETER



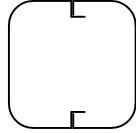
RACE TRACK



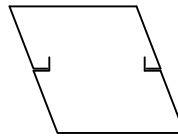
ELLIPTICAL



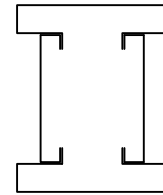
SQUARE



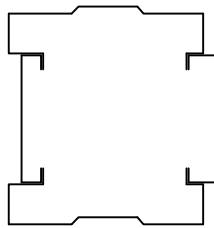
ROUND CORNERS



PARALLELOGRAM



"I" BEAM



CUSTOM

METALWERKS CAN PRODUCE COLUMN COVERS IN WIDE ARRAY OF SHAPES AND SIZES. PLEASE CONTACT METALWERKS FOR MORE INFORMATION.

14) Optional Column Cover and Beam Wrap Profiles