

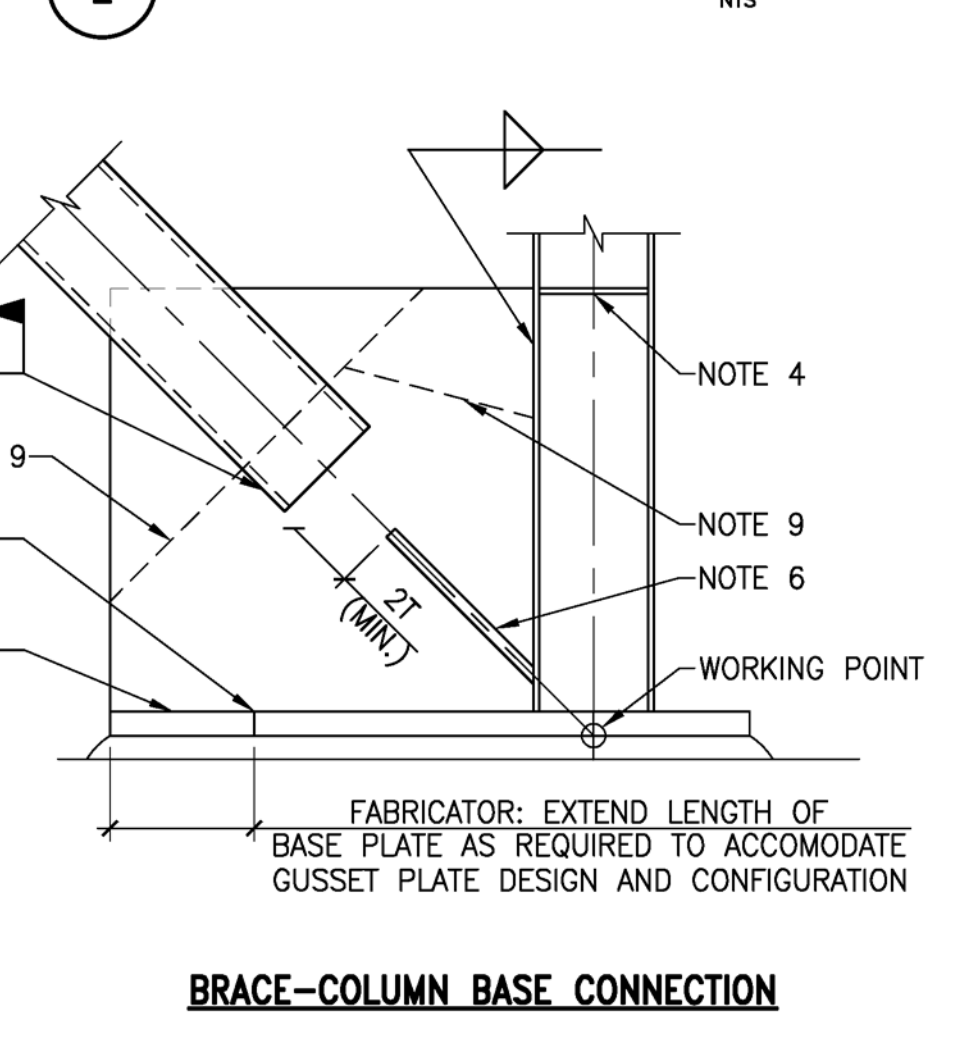
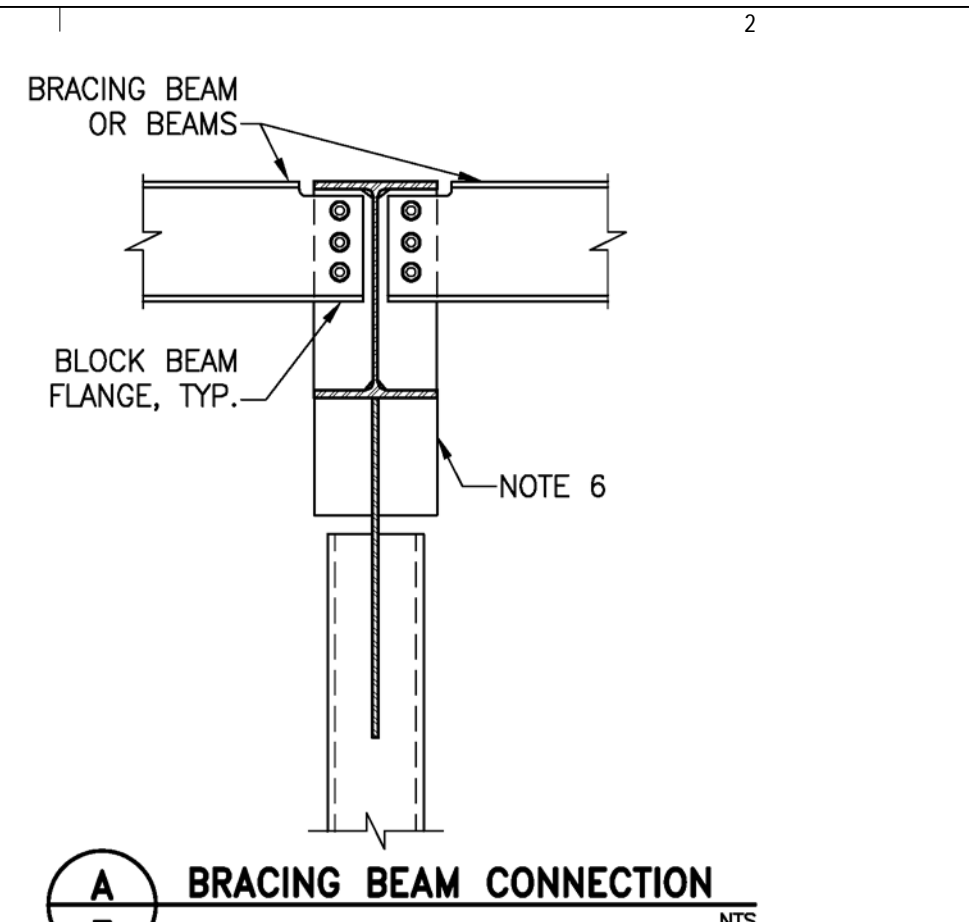
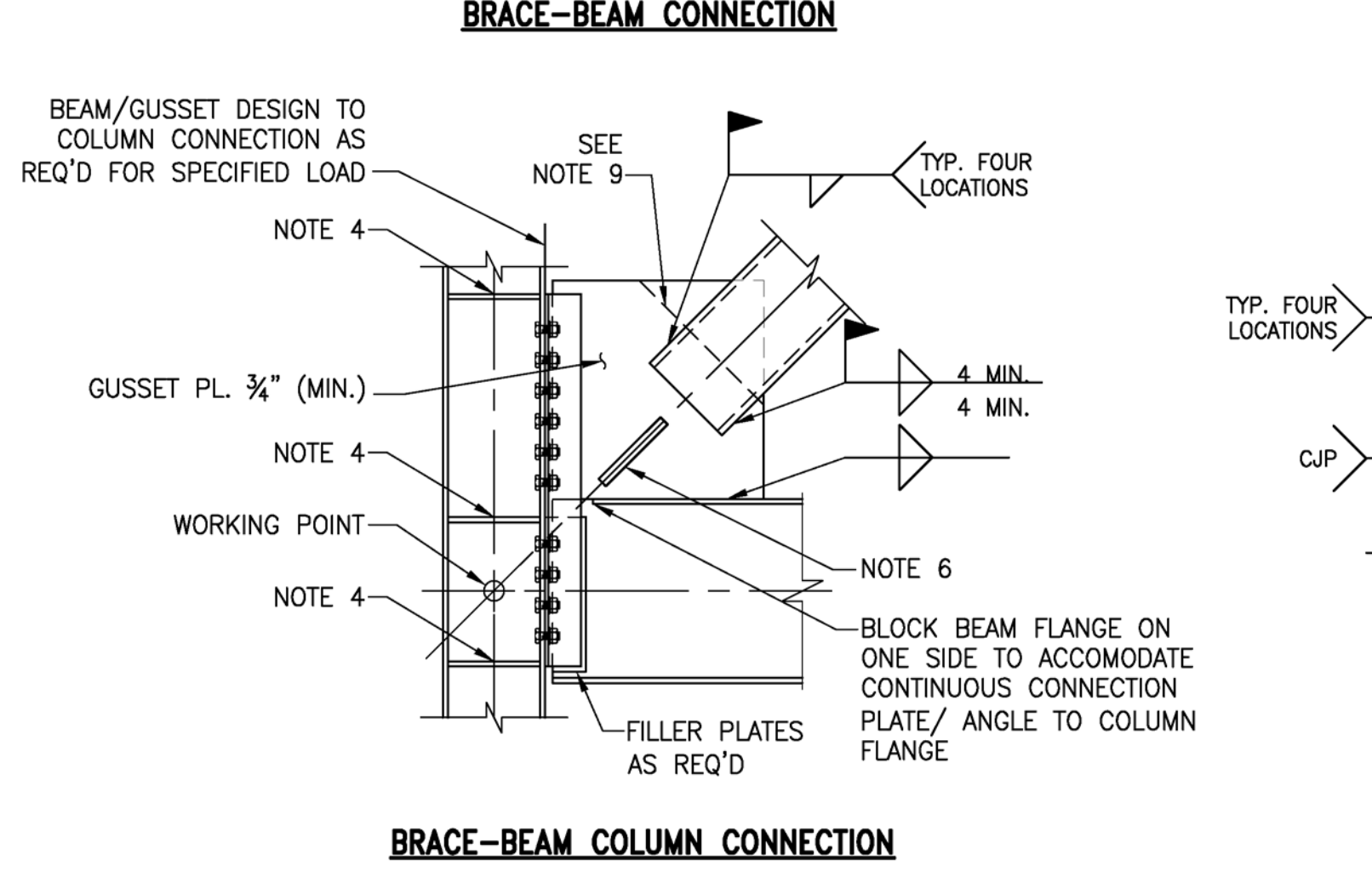
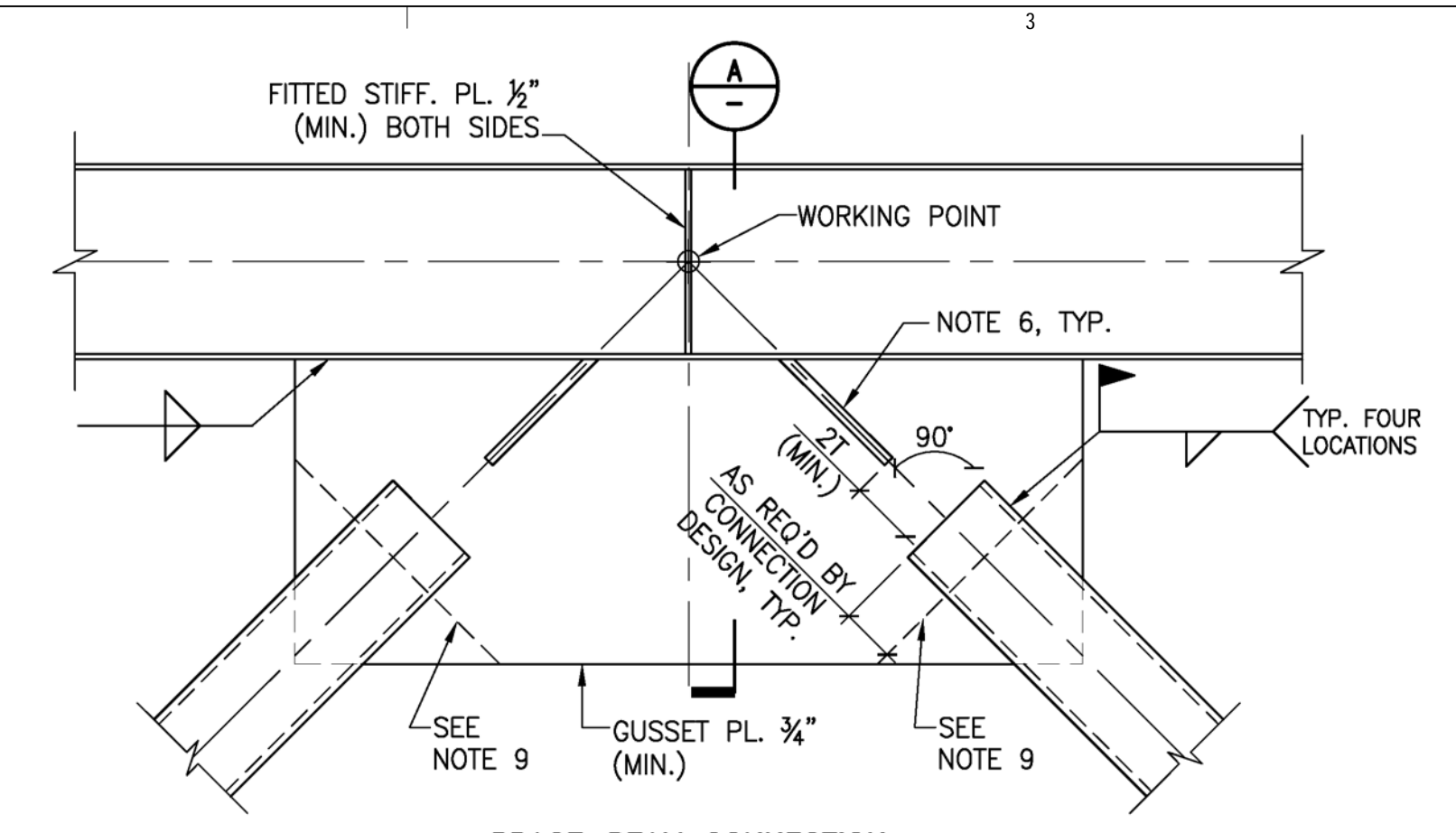
Revisions

NO.	ISSUED FOR PERMIT	DATE
	02/07/14	
	ISSUE	DATE

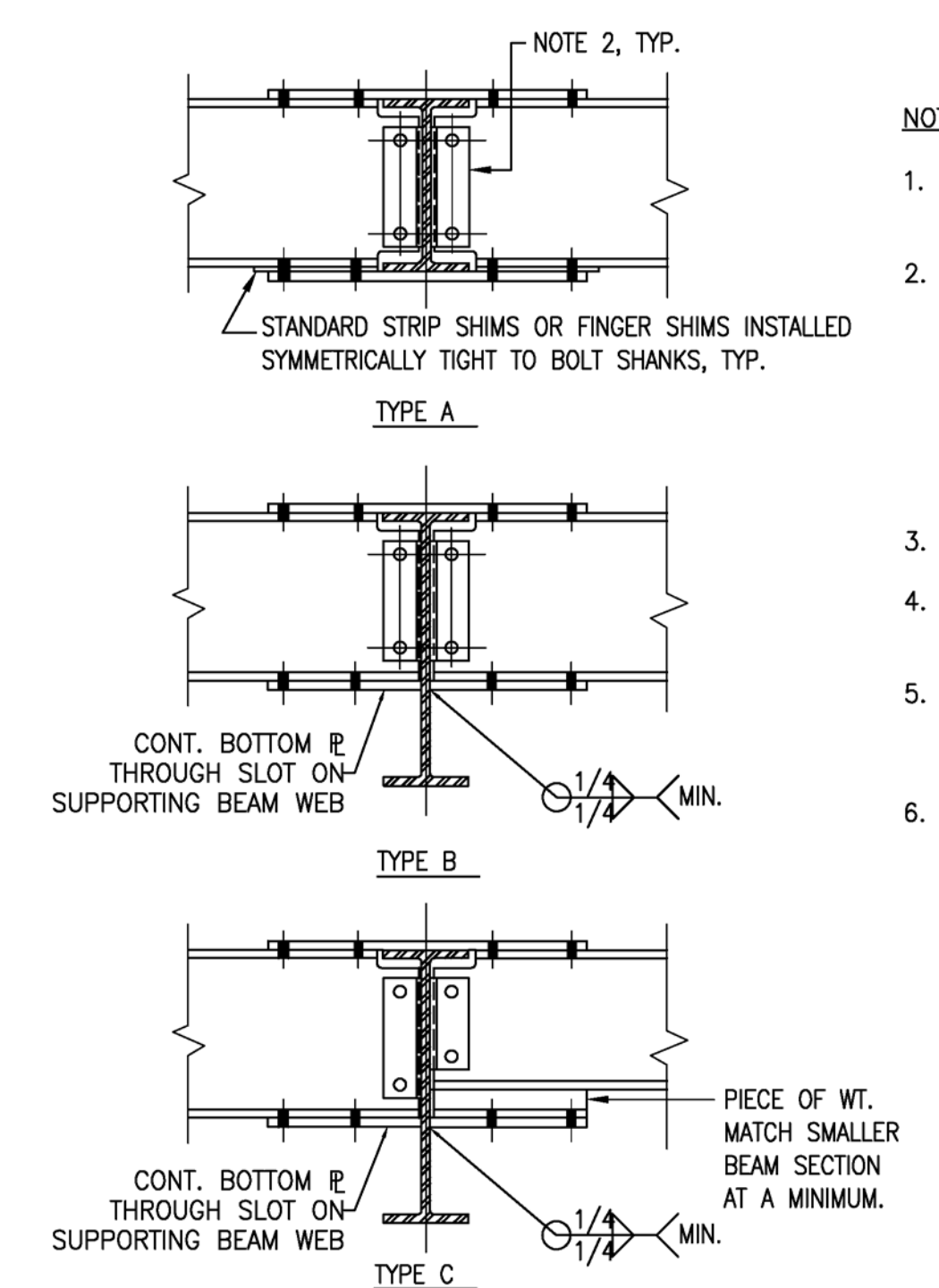
**Sheet Information**  
 Date: 12 APRIL 2013  
 Job #: C140135461(MMC)152168.000  
 Drawn: SWW  
 Checked: MJB  
 Approved: JHT

**TYPICAL STEEL DETAILS**

Sheet  
**S00-21**



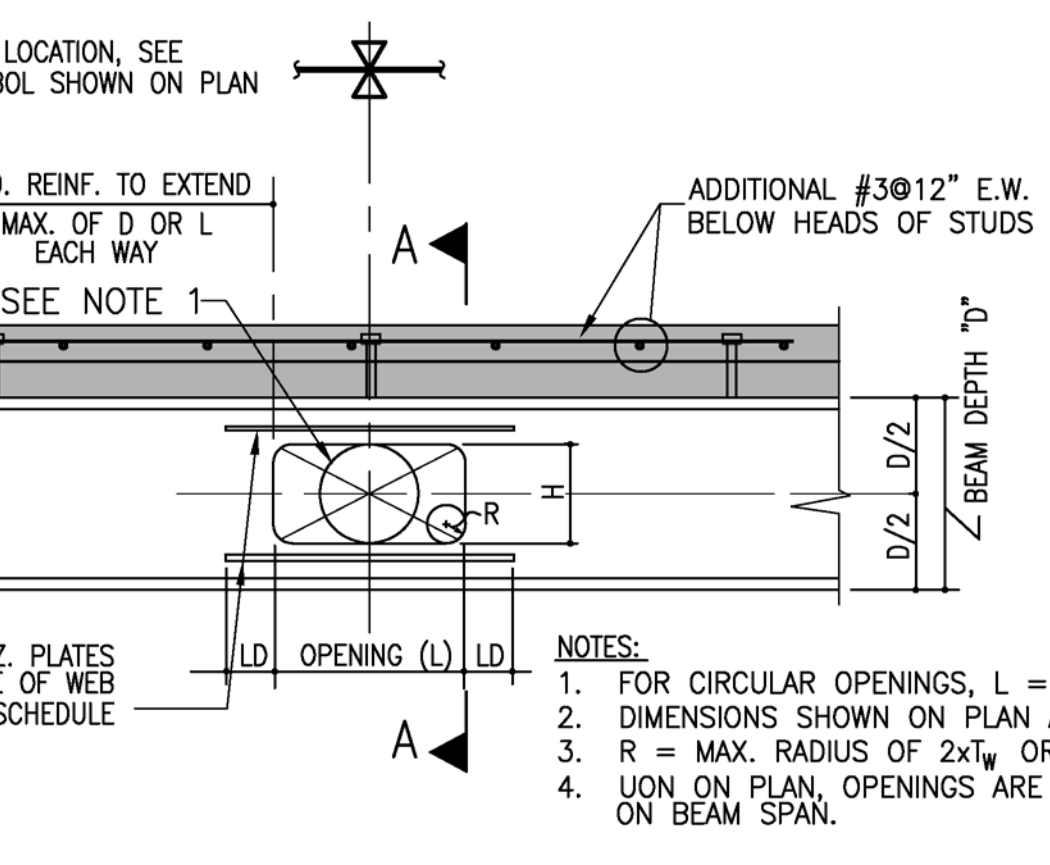
- DETAIL NOTES:**
- THE DETAILS SHOW THE DESIRED CONFIGURATION TO BE INCORPORATED IN THE FABRICATOR'S DESIGN. FABRICATOR'S DESIGN AND DETAILING TO FOLLOW PROJECT PLANS, SPECIFICATIONS, AND DESIGN FORCES INDICATED ON THE DRAWINGS.
  - T = GUSSET PLATE THICKNESS AS DETERMINED BY FABRICATOR'S DESIGN.
  - PROVIDE DECK SUPPORT ANGLES, SHIM PLATES, AND FILLER PLATES AS REQUIRED. THESE ITEMS ARE NOT SHOWN FOR CLARITY.
  - ADD FITTED STIFFENERS (1/2" THICK MIN.) BOTH SIDES OF COLUMN WHERE THERE ARE BRACES ON BOTH SIDES OF COLUMN AND THERE IS A TRANSFER FORCE BETWEEN THEM INDICATED ON THE DRAWINGS.
  - BOLTS AT CONNECTION TO COLUMN; A325, MINIMUM DIAMETER = 1", SLIP CRITICAL ON OVERSIZE HOLES. UNON.
  - ADD STIFFENERS ON EACH SIDE OF GUSSET IF AND AS REQUIRED BY WHITMORE SECTION CALCULATIONS. RECONFIGURE CONNECTIONS TO COLUMN AS REQUIRED BY STIFFENERS. DO NOT ENCRoACH ON GUSSET HINGE LINE WITH ANY CONNECTION MATERIAL.
  - CONNECTIONS TO COLUMN WEBS HAVE SIMILAR CONFIGURATIONS. REINFORCE COLUMN WEB AS REQUIRED BY THE CONNECTION FORCES.
  - GUSSET PLATES ARE SHOWN WITH VERTICAL AND HORIZONTAL EDGES. ANGLED CUTS MAY BE PROVIDED AT FABRICATOR'S DISCRETION OR IF REQUIRED BY THE GENERAL CONTRACTORS COORDINATION WITH OTHER TRADES MUST CUT GUSSETS AT EXPOSED BRACES.
  - SLAB CONSTRUCTION NOT SHOWN FOR CLARITY.



- NOTES:**
- DESIGN FLANGE PLATES FOR (0.8 φ)(Z)(FY) OF THE SMALLER BEAM.
  - UNON PLAN, DESIGN SHEAR CONNECTION FOR 80% OF THE SHEAR STRENGTH OF THE COPED BEAM. REINFORCE WEB AS REQUIRED BY REACTIONS SHOWN ON PLAN. DOUBLE ANGLE, SINGLE PLATE, AND END PLATE CONNECTIONS ACCEPTABLE.
  - ALL BOLTS ARE SLIP CRITICAL.
  - FIELD WELDED FLANGE PLATE ALTERNATES ACCEPTABLE.
  - DETAIL SHIMS AND/ OR FILLERS PER AISC LRFD SPECIFICATION SECTION J6.
  - PROVIDE DECK SUPPORT AS REQUIRED. DECK SUPPORT BY OVERSIZE TOP FLANGE FILLER PLATE IS ACCEPTABLE IF IT HAS A 1/2" MIN. THICKNESS AND IT EXTENDS A MINIMUM OF 3" BEYOND THE BEAM FLANGES.

**1 "BEAM-TO-BEAM" MOMENT CONNECTIONS** 3/4" = 1'-0"

**2 ORDINARY CONCENTRICALLY BRACED FRAME BRACING CONNECTION DETAILS** NTS

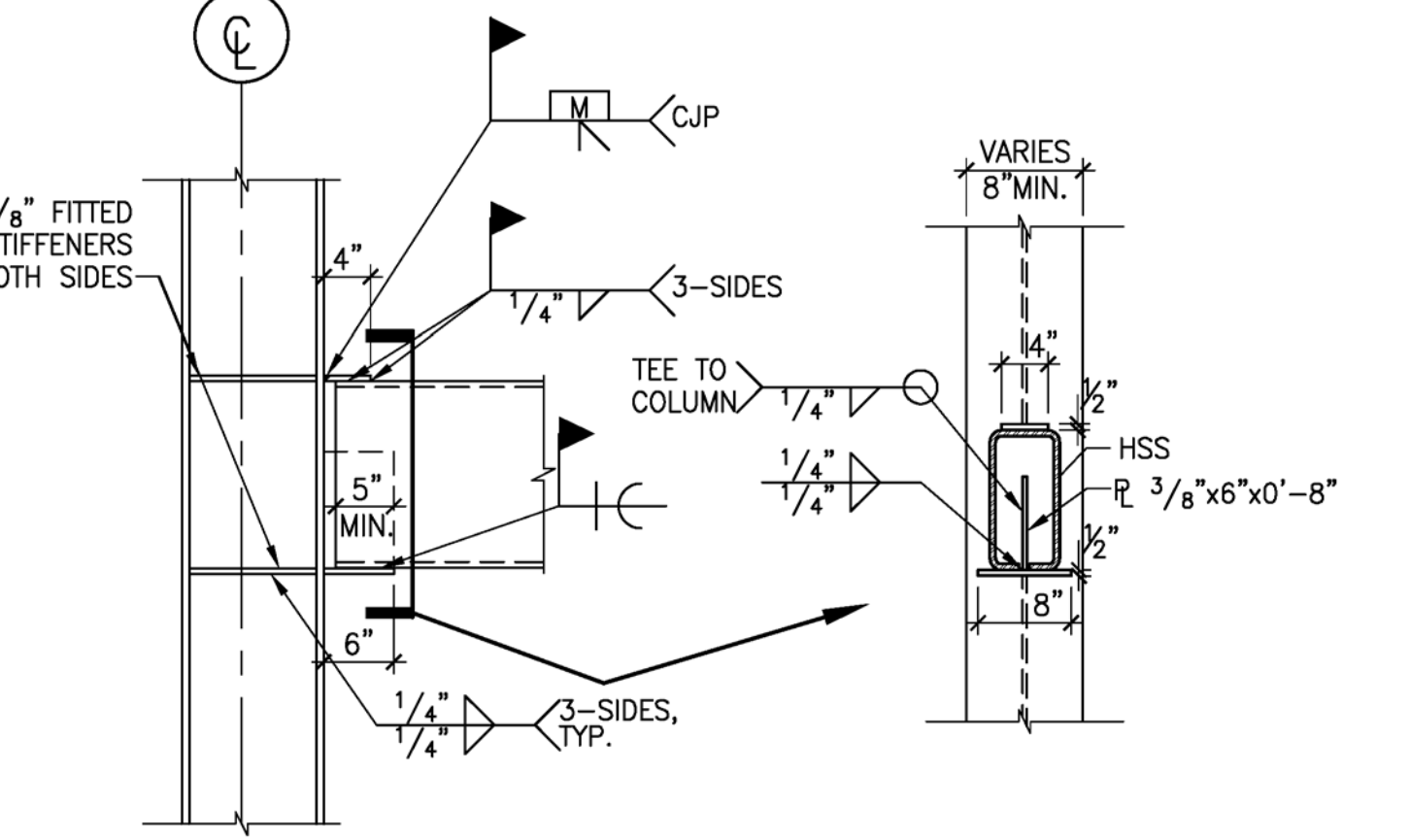


NOMINAL BEAM DEPTH	REINFORCEMENT PLATE DIMENSIONS			WELD SIZE
D	B	T	L <sub>o</sub>	T
14	4"	1"	8"	5/16"
16/18	4"	3/4"	8"	1/4"
21/24	3"	1/2"	6"	3/16"

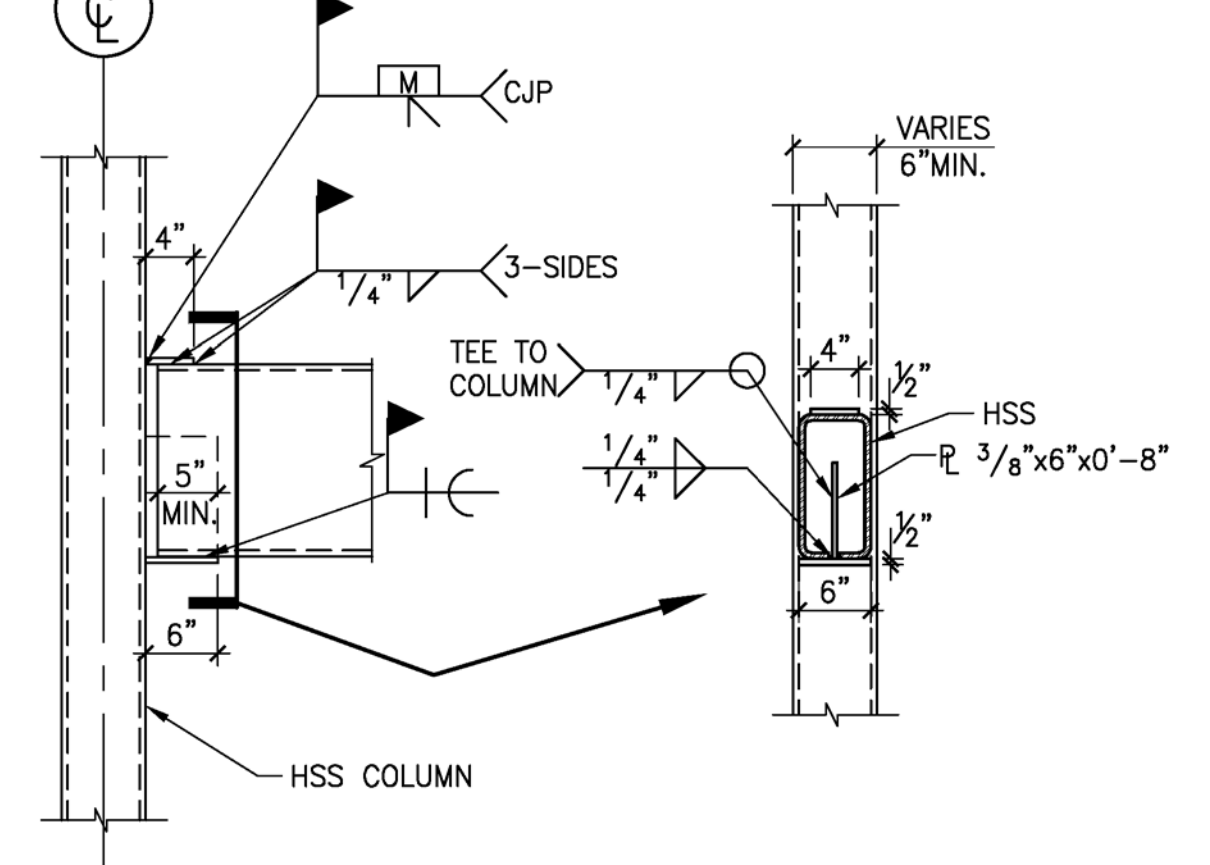
CONSULT ENGINEER FOR LARGER BEAM DEPTHS

- NOTES:**
- FOR CIRCULAR OPENINGS, L = H
  - DIMENSIONS SHOWN ON PLAN ARE L X H
  - R = MAX. RADIUS OF 2xT<sub>w</sub> OR 5/8"
  - UNON PLAN, OPENINGS ARE CENTERED ON BEAM SPAN.

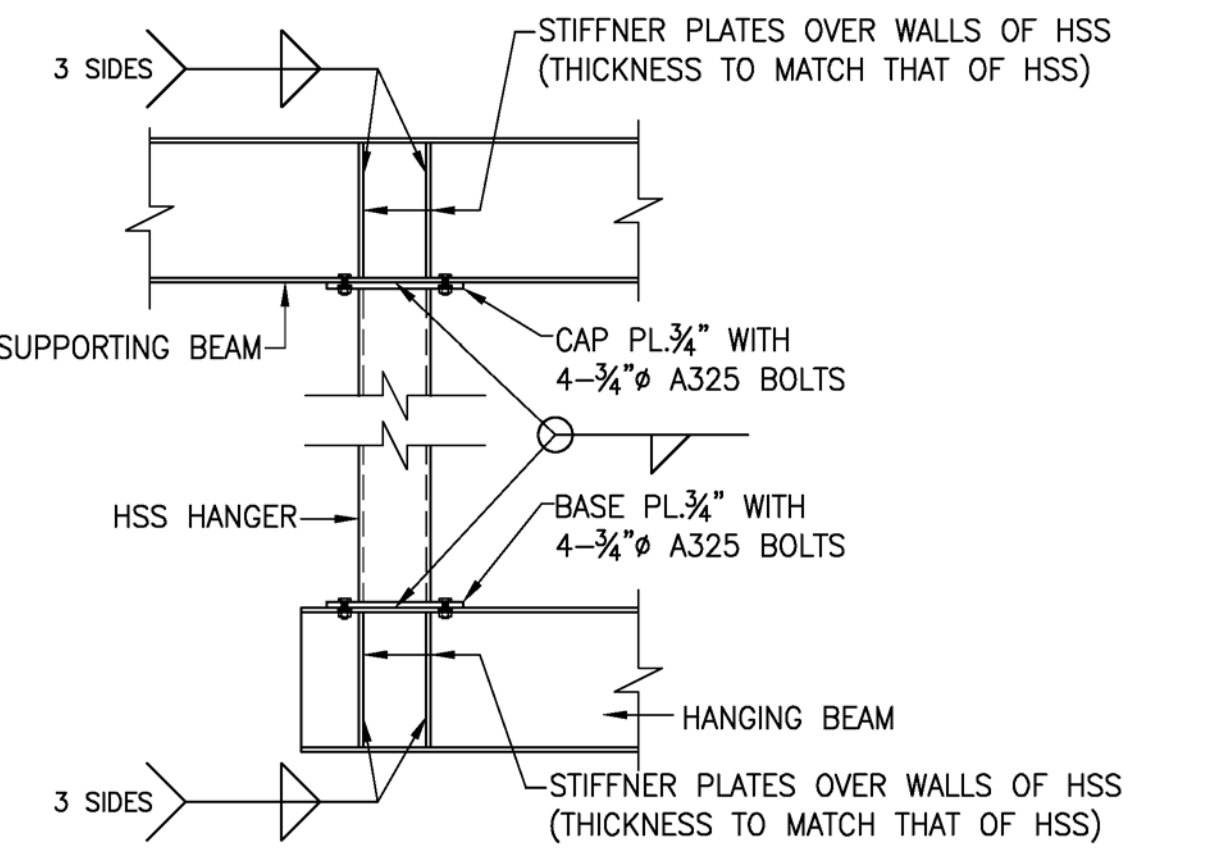
**3 DETAILS OF OPENINGS IN STEEL BEAMS** 3/4" = 1'-0"



**4 HSS TO WIDE FLANGE CONNECTION** N.T.S.



**5 HSS TO HSS COLUMN CONNECTION** N.T.S.



**6 TYPICAL HSS HANGER** NTS

CLEAR SPAN	ANGLE SIZE (LLV)
4'-0"	L3 1/2 x 3 1/2 x 1/2
6'-0"	L3 1/2 x 3 1/2 x 1/2
8'-0"	L3 1/2 x 4 1/2 x 1/2
10'-0"	L3 1/2 x 5 1/2 x 1/2

- NOTES:**
- ALL LINTELS ARE GALVANIZED
  - 6" MINIMUM BEARING
  - SEE ARCH. DWGS FOR ALL LOOSE LINTEL LOCATIONS

**12 BRICK LOOSE LINTEL SCHEDULE** NTS