PROJECT SPECIFIC INFORMATION

PROJECT NUMBER:	**#####**
SUBMITTAL NUMBER:	S-##
SUBMITTAL DATE:	MM/DD/YYYY
PROJECT NAME:	PROJECT NAME
LOCATION:	PROJECT LOCATION
CONNECTION TYPE:	SIDEPLATE ALL BOLTED
NUMBER OF BUILDINGS:	#
APPROX. TOTAL GROSS SQUARE FOOTAGE:	##,###
NUMBER OF STORIES:	#

eDATA:

a. THERE MAY BE eDATA AVAILABLE FOR YOUR PROJECT WHICH IS AVAILABLE FOR DOWNLOAD AT WWW.SIDEPLATE.COM. eDATA MAY INCLUDE:
   - eSTIMATE FILE IN EXCEL FORMAT FOR USE IN AFFIRMING SIDEPLATE CONNECTION MATERIAL QUANTITIES.
   - ComponentXML FILE FOR USE IN ASSISTING DETAILING EFFORTS.

b. ESTIMATED NUMBER OF SIDEPLATE JOINTS FOR THIS PROJECT = ###
c. ESTIMATED NUMBER OF SIDEPLATE JOINTS FOR THIS PROJECT THAT ARE **NOT** SUPPORTED BY eDATA = ###
d. MISCELLANEOUS DETAILS, TYPICALLY DESIGNATED BY M#, ARE NOT SUPPORTED.

INSTRUCTIONS TO STEEL FABRICATOR

1. SIDEPLATE LICENSE FEE:
   a. THE STEEL FABRICATOR'S BID PRICE FOR PROCUREMENT, FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL INCLUDE THE SIDEPLATE LICENSE FEE FOR THE PROJECT. EACH PROSPECTIVE STEEL FABRICATOR WHO BIDS THE PROJECT SHALL FORMALLY REQUEST THE SIDEPLATE LICENSE FEE BY ACCESSING THE SIDEPLATE WEBSITE (http://www.sideplate.com).
   b. UPON THE SUCCESSFUL STEEL FABRICATOR SIGNING A CONTRACT TO FABRICATE STRUCTURAL STEEL FOR THIS PROJECT, THE STEEL FABRICATOR SHALL SUBMIT A PURCHASE ORDER (PO) TO SIDEPLATE SYSTEMS, INC. FOR THE TOTAL AMOUNT OF THE SIDEPLATE LICENSE FEE AND SHALL INCLUDE SAID FEE IN ITS FIRST CONSTRUCTION DRAW.
   c. THE STEEL FABRICATOR SHALL MAKE PAYMENT OF THE SIDEPLATE LICENSE FEE DIRECTLY TO:

      SIDEPLATE SYSTEMS, INC.
      25909 PALA, SUITE 200
      MISSION VIEJO, CA 92691
      TEL: 949-238-8900

SUBMITTALS

1. IN ADDITION TO THE REQUIRED SUBMITTALS SPECIFIED BY THE BALANCE OF THE CONTRACT DOCUMENTS, THE FOLLOWING SUBMITTALS SHALL BE SENT TO SIDEPLATE SYSTEMS, INC. ELECTRONICALLY VIA THE STRUCTURAL ENGINEER OF RECORD FOR THEIR REVIEW AND DISPOSITION:
   a. QUALITY CONTROL PROGRAM (REQUIRED IF NOT AISC CERTIFIED)
   b. ONE ELECTRONIC COPY OF ALL STRUCTURAL STEEL DRAWINGS THAT EITHER DIRECTLY PERTAINS TO AND/OR AFFECTS THE SHOP FABRICATION OR FIELD ERECTION OF THE SIDEPLATE STEEL FRAME CONNECTION SYSTEM, INCLUDING THE INITIAL SUBMITTAL AND ALL CORRECTED RE-SUBMITTALS OF AFFECTED DRAWINGS. SIDEPLATE SYSTEMS, INC. SHALL BE GIVEN, AS A MINIMUM, THE SAME SPECIFIED REVIEW TIME (NOT LESS THAN SEVEN BUSINESS DAYS) AS THE ENGINEER OF RECORD.
2. SENT BY SIDEPLATE:
   a. INTELLECTUAL PROPERTY RIGHTS NOTICE LABEL.
   b. USPTO PATENT LABEL STICKERS, SEE INTELLECTUAL PROPERTY SECTION FOR PLACEMENT.

MEETINGS

1. PRE-DETAILING MEETING
   a. PRIOR TO THE START OF DETAILING OF THE SHOP DRAWINGS, THE FABRICATION CONTRACTOR SHALL FORMALLY REQUEST A PRE-DETAILING MEETING FROM SIDEPLATE SYSTEMS, INC. THIS MEETING IS TYPICALLY A WEBINAR TO DISCUSS BEST PRACTICES FOR THE DETAILING OF THE SIDEPLATE CONNECTIONS, AND TO CREATE A PROACTIVE FORUM TO ANSWER ANY QUESTIONS.
2. PRE-FABRICATION MEETING
   a. PRIOR TO THE START OF FABRICATION, THE FABRICATION CONTRACTOR SHALL FORMALLY REQUEST A PRE-FABRICATION MEETING FROM SIDEPLATE SYSTEMS, INC. THIS MEETING IS TYPICALLY A WEBINAR TO DISCUSS BEST PRACTICES FOR THE FABRICATION OF THE SIDEPLATE CONNECTIONS, AND TO CREATE A PROACTIVE FORUM TO ANSWER ANY QUESTIONS.
3. PRE-ERECTION MEETING
   a. PRIOR TO THE START OF STEEL ERECTION, THE ERECTION CONTRACTOR SHALL FORMALLY REQUEST A PRE-ERECTION MEETING FROM SIDEPLATE SYSTEMS, INC. THIS MEETING IS TYPICALLY A WEBINAR TO DISCUSS BEST PRACTICES FOR FIELD ERECTION OF THE SIDEPLATE BEAMS AND COLUMNS, AND TO CREATE A PROACTIVE FORUM TO ANSWER ANY QUESTIONS.

GENERAL

1. THE GOVERNING CODES SHALL CONSIST OF ANSI/AWS D1.1-2015 (AWS D1.1), AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (APRIL 14, 2010), 2009 RCSC SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, AND ALL APPLICABLE BUILDING AND JURISDICTIONAL CODES AND PROJECT STANDARDS SPECIFIED IN THE PROJECT SPECIFICATION STRUCTURAL STEEL SECTION. WHERE THE REQUIREMENTS DIFFER BETWEEN SIDEPLATE CONNECTION NOTES, THE GENERAL STRUCTURAL NOTES, AND THE GOVERNING CODES, THE MORE STRINGENT SECTION CRITERIA SHALL CONTROL.
2. ALPHA AND NUMERIC DESIGNATORS {X} & (#) USED HEREIN TO SIMPLIFY THE IDENTIFICATION OF PLATES, ANGLES, AND WELDS ARE DEFINED BELOW:

{A}	SIDE PLATE FOR UNIAXIAL CONNECTIONS
{B}	BEAM FLANGE COVER PLATE, AS REQUIRED
{G}	LONGITUDINAL ANGLE WELDED TO THE OUTSIDE FACE OF SIDE PLATE {A}, AS REQUIRED
{H}	LONGITUDINAL ANGLE BOLTED TO THE BOTTOM BEAM FLANGE (OR TOP BEAM FLANGE AS REQUIRED)
{J}	VERTICAL ANGLES BOLTED TO THE COLUMN FLANGE (MAY BE ON EITHER SIDE OF FLANGE OR BOTH SIDES AS REQUIRED)
{3}	FILLET WELD CONNECTING HORIZONTAL CONNECTING PLATE {K} TO COLUMN, AS REQUIRED
{4}	FILLET WELD TO CONSTRUCT VSE {F} AND TO CONNECT IT TO THE WEB OF THE BEAM, AS REQUIRED
{8}	FILLET (AND/OR PJP) WELD CONNECTING LONGITUDINAL ANGLE {G} (AND/OR PLATE {T}) TO SIDE PLATE {A}, AS REQUIRED
{BG1}	BOLT GROUP ONE, SHOP MADE CONNECTIONS FOR COVER PLATE {B} OR ANGLES {H} TO BEAM FLANGES
{BG2}	BOLT GROUP TWO, FIELD MADE CONNECTIONS FOR SIDE PLATES {A} TO ANGLES {H} AND/OR COVER PLATE {B} TO ANGLES {G}
{BG3}	BOLT GROUP THREE, SHOP MADE CONNECTIONS FOR SIDE PLATES {A} TO ANGLES {J} AND FOR HSS COLUMNS SIDE PLATES {A} TO HSS FACE
{BG4}	BOLT GROUP FOUR, SHOP MADE CONNECTIONS FOR ANGLES {J} TO WIDE FLANGE COLUMN FLANGES

OTHER PIECES AS REQUIRED ON UNIQUE CONDITIONS:

{C}	VERTICAL SHEAR PLATE OR FLAT BAR WELDED TO BEAM WEB, AS REQUIRED
{E}	VERTICAL ANGLE WELDED TO THE VERTICAL SHEAR PLATE {C}, AS REQUIRED
{F}	VERTICAL SHEAR ELEMENT (VSE) WHICH CONSISTS OF PLATE {C} AND ANGLE {E} MATERIAL, AS REQUIRED
{K}	HORIZONTAL CONNECTING PLATE OR FLAT BAR WELDED TO COLUMN WEB, AS REQUIRED
{L}	HORIZONTAL ANGLES BOLTED OR WELDED TO HORIZONTAL CONNECTING PLATE {K} AND MAY BE BOLTED TO SIDE PLATE {A}, AS REQUIRED
{T}	HORIZONTAL PLATE WELDED TO THE OUTSIDE FACE OF SIDE PLATE {A}, AS REQUIRED
{(8p)}	PJP WELD CONNECTING PLATE {T} TO SIDE PLATE {A}, AS REQUIRED

3. ALPHA DESIGNATORS, USED HEREIN TO SIMPLIFY THE IDENTIFICATION OF DIMENSIONS OF THE SIDEPLATE CONNECTIONS, ARE DEFINED BELOW:

GAP	PHYSICAL SEPARATION BETWEEN THE END OF THE MOMENT FRAME BEAM AND THE ADJOINING FACE OF THE COLUMN FLANGE (AKA COLUMN/BEAM SEPARATION)
A	EXTENSION OF SIDE PLATE {A} FROM THE FACE OF THE COLUMN
B	DEPTH OF SIDE PLATE {A}
C	LENGTH OF COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}
E	EDGE DISTANCE OF BOLT HOLES IN COVER PLATE {B} AND SIDE PLATE {A}, AS REQUIRED.
G	GAGE DISTANCE TO CENTERLINE OF BOLT HOLES IN ANGLES {G}, {H}, {J}, AND PLATE {T}, AS REQUIRED
H	DIMENSION TO DEFINE TOTAL COVER PLATE {B} WIDTH
J	DISTANCE FROM END OF THE BEAM TO CENTERLINE OF VERTICAL BOLT HOLES IN VSE {F}, AS REQUIRED
L	WIDE FLANGE (BEAM AND COLUMN) OR HSS COLUMN FACE BOLT HOLE ROW DISTANCE SPACING
K	LENGTH OF VERTICAL ANGLES {J}
M	THE INSIDE FACE TO INSIDE FACE DIMENSION BETWEEN THE SIDE PLATES {A}
S	HORIZONTAL SPACING BETWEEN BOLT HOLES IN ANGLES {G}, {H}, {J}, PLATE {T} AND CONNECTING WIDE FLANGE OR HSS MEMBERS, AS REQUIRED
T	VERTICAL DISTANCE FROM TOP OF SIDE PLATE TO TOP ROW OF BOLT HOLES IN SIDE PLATE {A} AND ANGLES {J}
W	ACCESS WINDOW IN HSS COLUMN FOR INSTALLATION OF BOLTS AND OTHER FABRICATION METHODS

MATERIAL

1. PLATE, FLAT BAR, AND ANGLE MATERIAL:
   a. ALL PLATE MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH (F_y) OF 50 KSI.
   b. ANGLE AND BAR MATERIAL SHALL HAVE A HIGH STRENGTH STEEL SPECIFICATION AND SHALL HAVE A MINIMUM YIELD STRENGTH (F_y) OF 50 KSI.
2. HIGH STRENGTH BOLTS/FASTENERS:
   a. BOLTS SHALL BE ASTM F3125, GRADE A490-X OR GRADE F2280-X, OR F3148 FIXED SPLINE BOLT ASSEMBLIES. THE BOLT HEAD SHALL BE DISTINCTIVELY MARKED WITH A MINIMUM MARKING OF A490, A490TC, OR 144 RESPECTIVELY. AN ALTERNATIVE DESIGN THAT MEETS THE REQUIREMENTS OF RCSC SECTION 2.8 MAY BE USED, WITH THE WRITTEN APPROVAL FROM SIDEPLATE SYSTEMS, INC.
   b. FOR BOLTS UP TO 1 1/4 INCH DIAMETER WASHERS SHALL BE ORDINARY THICKNESS AND ASTM F436 TYPE 1 OR TYPE 3. 1 3/8 INCH DIAMETER OR LARGER BOLTS SHALL REQUIRE 5/16 INCH THICK WASHER.
   c. NUTS SHALL BE ASTM A563 GRADE DH OR DH3.
   d. THE BOLT ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL. F2280 AND F3148 ASSEMBLIES SHALL ONLY BE LUBRICATED BY THE SUPPLIER.
   e. THE MILL TEST REPORT (MTR) MUST HAVE DOCUMENTED LOT TRACEABILITY, STATEMENT OF DIMENSIONAL RESULTS, FULL CHEMICAL AND MECHANICAL TEST RESULTS TO THE SPECIFICATIONS ABOVE.
   f. THE USE OF FINGER SHIMS ARE ACCEPTABLE PER BOLTING SECTION 8.
3. ROLLED SHAPES:
   a. ALL ROLLED SHAPES USED FOR COLUMNS AND BEAMS IN CONSTRUCTING SIDEPLATE MOMENT FRAMES SHALL BE ASTM A992 GRADE 50 UNO.
4. HSS TUBE SHAPES:
   a. ALL HSS SHAPES USED FOR COLUMNS IN CONSTRUCTING SIDEPLATE MOMENT FRAMES SHALL, AS A MINIMUM, BE ASTM A500 GRADE B OR GRADE C OR ASTM1085.

PREPARATION

1. THE STEEL FABRICATION AND ERECTION SUBCONTRACTORS SHALL EMPLOY A BOLT FIT-UP PROGRAM PRIOR TO THE START OF SIDEPLATE MOMENT FRAME FABRICATION. THE PROGRAM SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, SECTION 7.0 TO ENSURE THAT THE FOLLOWING ARE MAINTAINED:
   - DIMENSIONAL ACCURACY
   - FRAMING AND ALIGNMENT TOLERANCES
   - CONTROL OF DISTORTION AND FINAL FIT-UP

WELDING

1. WELDER QUALIFICATION: THE PERFORMANCE OF ALL WELDERS, WELDING OPERATORS AND TACK WELDERS SHALL BE QUALIFIED IN CONFORMANCE WITH AWS D1.1, SECTION 4, PART C TO DEMONSTRATE ABILITY TO PRODUCE SOUND WELDS.

BOLTING

1. BOLTS/FASTENERS SHALL BE INSTALLED TO PRETENSIONED CONDITION USING ONE OF THE METHODS PRESCRIBED HERE: TURN-OF-NUT (A490), CALIBRATED WRENCH (A490), TWIST-OFF-TYPE TENSION-CONTROL BOLT (F2280), OR TORQUE AND ANGLE METHOD (F3148). FOR TURN-OF-NUT THE THREAD AND NUT SHOULD BOTH BE MARKED TO MAKE SURE THE REQUIRED TURN IS ACHIEVED.
2. FOR ALL PRETENSIONING METHODOLOGIES, ALL FASTENER ASSEMBLIES WITHIN THE JOINT SHALL FIRST BE BROUGHT TO A SNUG TIGHT CONDITION, FOLLOWED BY A SYSTEMATIC PRETENSIONING PROCESS. PRETENSIONING SHALL BEGIN AT THE MOST RIGID PART OF THE JOINT AND CONTINUE IN A MANNER THAT WILL MINIMIZE THE RELAXATION OF PREVIOUSLY PRETENSIONED FASTENERS, UNTIL THE CONNECTED PLIES ARE IN AS FIRM CONTACT AS POSSIBLE.
3. REUSE OF A490, F2280, AND F3148 BOLT ASSEMBLIES SHALL NOT BE ALLOWED. TOUCHING UP OR RE-TIGHTENING BOLTS THAT MAY HAVE BEEN LOOSENED BY THE INSTALLATION OF ADJACENT BOLTS SHALL NOT BE CONSIDERED TO BE A REUSE.
4. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
5. THE BOLT LENGTH USED SHALL BE SUCH THAT THE BOLT THREAD EXTENDS BEYOND OR IS AT LEAST FLUSH WITH THE OUTER FACE OF THE NUT WHEN PROPERLY INSTALLED.
6. FASTENER COMPONENTS SHALL BE PROTECTED FROM DIRT AND MOISTURE IN CLOSED CONTAINERS AT THE SITE OF INSTALLATION.
7. THE BOLT SHANK SHALL NOT EXTEND BEYOND THE CONNECTED PLIES. USE WASHER/SPACER IF NECESSARY TO PREVENT SHANK OUT CONDITION.
8. F2280 OR F3148 ASSEMBLIES AND ALTERNATIVE DESIGN FASTENERS THAT MEET THE SPECIFIED REQUIREMENTS PREVIOUSLY MENTIONED SHALL NOT BE RE-LUBRICATED, EXCEPT BY THE MANUFACTURER.
9. FINGER SHIMS MAY BE USED UP TO 1/4 INCH WITHOUT RESTRICTION, SHIM REQUIREMENTS GREATER THAN 1/4 INCH SHALL BE SUBMITTED TO SIDEPLATE SYSTEMS INC FOR APPROVAL PRIOR TO USE.
10. WASHERS SHALL BE ASTM F436 AND SHALL BE USED UNDER THE NUT OF THE FASTENER ASSEMBLY (AND BOLT HEAD AS REQUIRED) SO AS TO PROVIDE A HARDENED NON-GALLING SURFACE OF THE TURNED ELEMENT. WHEN USING THE TURN-OF-NUT OR CALIBRATED WRENCH METHOD, THE TURNED ELEMENT MUST BE THE SAME AS WAS USED WHEN PERFORMING PREINSTALLATION VERIFICATION TESTING.

QUALITY CONTROL

1. THE FABRICATOR AND ERECTOR SHALL BE RESPONSIBLE FOR QUALITY CONTROL BY PROVIDING, AS A MINIMUM, IN-PROCESS VISUAL INSPECTION OF ALL FABRICATION AND ERECTION ACTIVITIES TO ENSURE THAT MATERIALS AND WORKMANSHIP MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND SHALL INCLUDE WORK PERFORMED PRIOR TO ASSEMBLY. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THAT EFFECTIVE PROCEDURES AND METHODS HAVE BEEN EMPLOYED IN THE FORM OF A BOLT FIT-UP PROGRAM TO ACCOUNT FOR AND COUNTERACT THE EFFECTS OF EXISTING BEAM SWEEP AND CAMBER, AND CHANGES IN MOMENT FRAME GEOMETRY DUE TO SKEWED AND CURVED DESIGN CONFIGURATIONS (AS OCCURS), TO ENSURE COMPLIANCE WITH SPECIFIED ERECTION AND ALIGNMENT TOLERANCES. QC INSPECTION SHALL INCLUDE **HOLD POINTS** FOR THE FOLLOWING:
   a. COLUMN TREE ASSEMBLY:
      1. MINIMUM CLEAR DIMENSION SHALL BE VERIFIED AFTER PLACEMENT OF BOLTS IN ANGLES {J} AND SIDE PLATES {A}. THE VERIFIED WIDTH DIMENSION 'M' OCCURS ANYWHERE IN BETWEEN THE SIDE PLATES {A} FROM TOP TO BOTTOM. THE SIDE PLATES SHALL BE PARALLEL TO ONE ANOTHER. IN NO CASE SHALL THEY BE LESS THAN DIMENSION 'M'.
      2. VERIFICATION OF BOLT HOLE ELEVATION AND SPACING FOR POSITION OF SIDE PLATE {A} AND PROPER POSITION AND ELEVATION OF ANGLES {G}, AS APPLICABLE.
      3. IF DESIRED, THE FABRICATOR MAY APPLY A SLIGHT SPREAD TO THE SIDE PLATE {A} TO AID IN BEAM ERECTION. IT SHALL NOT EXCEED THE ACTUAL DIMENSIONED WIDTH. A FIELD CONSTRUCTION AID WOULD THEN BE REQUIRED TO BE PLACED AND HOLD THE SIDE PLATES IN THIS FLARED CONDITION UNTIL THE BEAM HAS BEEN SAFELY ERECTED. IN NO CASE SHALL THE SPREAD CAUSE PERMANENT DEFORMATION IN THE SIDE PLATES. SPREADING MAY ONLY BE DONE AFTER ALL BOLTS ARE FULLY PRETENSIONED.
   b. BEAM ASSEMBLY:
      1. VERIFICATION OF PERPENDICULAR ALIGNMENT BETWEEN THE TOP COVER PLATE {B} AND BOTTOM ANGLES {H} TO THE WEB OF THE BEAM, TO MINIMIZE, IF NOT ELIMINATE, ANY MISALIGNMENT OF BOLT HOLES DUE TO BEAM FLANGE TILT WHEN THE BEAM HAS BEEN LOWERED INTO PLACE.
      2. VERIFICATION OF BOLT HOLE SPACING AND POSITION ON COVER PLATE {B} AND ANGLES {H}.
      3. VERIFICATION OF THE DISTANCE BETWEEN EXTERIOR ANGLE {H} FACES AND THEIR RESPECTIVE BOLT HOLE PLACEMENT TO EACH OTHER (VERTICALLY AND HORIZONTALLY).
      4. AS APPLICABLE, VERIFICATION THAT IN NO CASE SHALL THE OUTSIDE FACE OF VSE {F} EXTEND BEYOND THE OUTSIDE FACES OF THE LONGITUDINAL ANGLES {H}.
      5. AS APPLICABLE, VERIFICATION THAT VERTICAL PLACEMENT OF VSE {F} IS IN THE CORRECT LOCATION.

2. FILLET WELD FIT-UP TOLERANCES:
   a. THE PARTS TO BE JOINED BY FILLET WELDS SHALL BE BROUGHT INTO AS CLOSE CONTACT AS PRACTICABLE, USING AS NECESSARY SUITABLE CLAMPING MEANS. THE ROOT OPENING (I.E., THE FIT-UP GAP) SHALL NOT EXCEED 1/4 INCH. FOR FILLET WELD ROOT GAPS GREATER THAN 1/16 INCH, THE LEG SIZE (I.E., THE SPECIFIED SIZE) OF FILLET WELD SHALL BE INCREASED BY THE AMOUNT OF THE ROOT OPENING.
3. TENSION CALIBRATION FOR PRE-INSTALLATION:
   a. TENSION CALIBRATION SHALL BE USED TO CONFIRM THE SUITABILITY OF THE COMPLETE FASTENER ASSEMBLY, AND THE PROCEDURE TO BE USED BY THE BOLTING CREW.

QUALITY ASSURANCE

IN ADDITION TO ALL OTHER QUALITY ASSURANCE INSPECTION ACTIVITIES, THE OWNER'S VERIFICATION INSPECTOR SHALL BE RESPONSIBLE FOR:

1. FAYING SURFACES:
   a. THE SURFACES ADJACENT TO THE BOLT HEAD AND NUT SHALL BE FREE OF DIRT AND OTHER FOREIGN MATERIAL OTHER THAN THE SPECIFIED COATINGS.
   b. FAYING SURFACES ARE PERMITTED TO BE UNCOATED AND COATED WITH ANY COATINGS OF ANY FORMULATION OR GALVANIZATION.
   c. AFTER THE CONNECTIONS HAVE BEEN ASSEMBLED, VISUALLY ENSURE THAT THE PLIES OF THE CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO AS CLOSE OF CONTACT AS PRACTICABLE WITH ONE ANOTHER. GAPS UP TO 1/8 INCH BETWEEN THE SURFACES SHALL BE ALLOWED. GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH SHALL HAVE FINGER SHIMS INSTALLED BEFORE PRETENSIONING. (IT IS RECOMMENDED TO INSTALL THE FINGER SHIMS WITH THE OPENING FACE DOWN, SO THAT GRAVITY MAY HOLD THEM IN PLACE WHILE PRETENSIONING). FOR GAPS GREATER THAN 1/4 INCH, CONTACT SIDEPLATE SYSTEMS, INC.

HOT DIPPED GALVANIZING

1. SIDEPLATE CONNECTIONS REQUIRING THIS TYPE OF FINISH SHALL FOLLOW THE SAME CONSTRUCTION SEQUENCING AS PREVIOUSLY OUTLINED WITH THE FOLLOWING MODIFICATIONS:
   a. AS APPLICABLE, HORIZONTAL CONNECTING PLATES {K} SHALL HAVE AN INCREASED CLIP SIZE WHICH SHALL BE 1 5/8 INCH BY 1 5/8 INCH TO PROVIDE ADEQUATE VENTILATION AND DRAINAGE. CONTACT SIDEPLATE SYSTEMS, INC. IN THE EVENT THAT THE GALVANIZING CONTRACTOR SPECIFICATIONS REQUIRE A LARGER OPENING THAN THAT SPECIFIED HEREIN.
   b. SEAL WELDING SHALL BE ALLOWED, AS APPLICABLE.
   c. ANY DEVIATIONS TO THESE MODIFICATIONS SHALL BE COORDINATED WITH SIDEPLATE SYSTEMS, INC. AND THE SEOR.
2. IF CONTRACTOR ELECTS TO USE A490 BOLTS AND THE PROJECT SPECIFICATIONS REQUIRE GALVANIZATION, ADDITIONAL REQUIREMENTS SHALL BE APPLIED TO THE A490 MATERIAL. A490 BOLTS SHALL NOT BE HOT DIP GALVANIZED. FOR ASTM A490 BOLTS, THE PROPER CORROSION PROTECTION SHALL BE A ZINC/ALUMINUM INORGANIC COATING THAT IS IN CONFORMANCE WITH ASTM F1136 GRADE 3. EXAMPLES OF SUCH COATINGS, BUT NOT ENDORSED HEREIN, ARE MAGNI® 558 AND GEOMET® 321, OR DACROMET®.
3. STANDARD ASTM A490 BOLTS WITH ADDITIONAL PROCESS FOR COATINGS SHALL REQUIRE EVIDENCE OF COMPLIANCE (CERTIFICATION, LETTER, OR SIMILAR) FROM THE APPLICATOR.

FIREPROOFING

1. WHEN REQUIRED BY THE GOVERNING CODE FOR CERTAIN TYPES OF CONSTRUCTION, SIDEPLATE CONNECTIONS SHALL HAVE A FIRE-RESISTANCE RATING LIKE THAT OF A STEEL "STRUCTURAL FRAME".
2. THE MINIMUM THICKNESS OF SPRAY-APPLIED FIRE-RESISTIVE MATERIAL (SFRM) FOR STEEL SIDEPLATE CONNECTIONS PLATES THAT ARE NOT ENCASED IN CONCRETE, SHALL BE DETERMINED JUST LIKE THAT OF A PIPE/TUBE COLUMN SECTION WITH A CONSTANT STEEL WALL THICKNESS USING THE THICKNESS OF SIDE PLATE {A} FOR EACH SIDEPLATE CONNECTION ID PER THE SIDEPLATE CONNECTION SCHEDULE, WHICH ARE UNIFORMLY HEATED AND PROTECTED (THE FIRE EXPOSURE OF A PIPE/TUBE COLUMN IS DIRECTLY ANALOGOUS TO A PLATE WITH A 1-SIDED FIRE EXPOSURE AND PROTECTION). THE SFRM SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ASTM E119 AND LISTED FOR FIRE RESISTIVE PIPE/TUBE COLUMN APPLICATIONS FOR NO LESS THAN THE REQUIRED RATED TIME.
3. WHEN NO VSE OPTION IS SPECIFIED, PROVIDE A CLOSURE PLATE, AS NEEDED, FOR SFRM MATERIAL TO MORE EASILY ADHERE TO. ATTACH CLOSURE PLATE TO THE INSIDE OR OUTSIDE FACE OF THE SIDE PLATE {A} WITHIN THE MIDDLE HALF OF THE SIDE PLATE {A} HEIGHT. DO NOT ATTACH CLOSURE PLATE TO THE BEAM FLANGES OR WEB.
4. THE CONTRACTOR SHALL PROVIDE THE MEANS, TYPICALLY DONE WITH A LAYERING TECHNIQUE, FOR FIREPROOFING ACROSS THE BOTTOM OF THE GAP. SEE GRAPHIC NUMBER 5B IN FIELD ERECTION OF THE SIDEPLATE BOLTED SYSTEM.
5. SEE GRAPHIC NUMBER 5C IN FIELD ERECTION OF THE SIDEPLATE BOLTED SYSTEM FOR FIREPROOFING ACROSS THE BEAM WEB TO SIDE PLATE OPENING.

INTELLECTUAL PROPERTY

1. IN ORDER TO SAFEGUARD THE AUTHORIZED USE AND INTELLECTUAL PROPERTY OF THE PATENTED SIDEPLATE CONNECTION TECHNOLOGY, THE STEEL FABRICATION SUBCONTRACTOR SHALL SATISFY THE FOLLOWING REQUIREMENTS:
   a. A NOTICE OF INTELLECTUAL PROPERTY, IDENTICAL TO THAT PROVIDED ON THIS SHEET, SHALL BE AFFIXED ON EACH SHEET OF SHOP DETAIL AND FIELD ERECTION DRAWINGS CONTAINING SIDEPLATE SYSTEM INFORMATION WHICH DISCLOSES IN ANY WAY THE SIDEPLATE CONNECTION CONCEPT PRIOR TO RELEASING SUCH INFORMATION FOR ITS INTENDED USE. SUCH NOTICE SHALL BE PROVIDED TO THE STEEL FABRICATION SUBCONTRACTOR BY SIDEPLATE SYSTEMS, INC. IN A FORMAT (E.G. WORD OR AUTOCAD) SUITABLE TO THE NEEDS OF THE STEEL FABRICATION SUBCONTRACTOR'S DETAILER.
   b. PATENT LABELS SHALL BE APPLIED IN COMPLIANCE WITH THE GOVERNING PATENT AND INTELLECTUAL PROPERTY LAWS AND SHALL BE PLACED, AS A MINIMUM, IN THE FOLLOWING LOCATIONS:
      1. COLUMN SUB ASSEMBLY:
         - IF PLATE {D} IS REQUIRED, PLACE ONE STICKER ON THE OUTSIDE FACE OF ONE OF THE TWO BOTTOM HORIZONTAL PLATES {D}
         - IF PLATE {D} IS NOT REQUIRED, PLACE ONE STICKER ON THE WEB OF THE COLUMN BEHIND THE SIDE PLATES {A}.
      2. BEAM SUB ASSEMBLY:
         - PLACE ONE STICKER ON ONE END OF THE BEAM BETWEEN THE TOP AND BOTTOM FLANGES WHERE SIDEPLATE CONNECTIONS OCCUR.

PRELIMINARY DRAWINGS
NOT FOR CONSTRUCTION

SIDEPLATE® POWERED BY MiTek

SidePlate Systems, Inc.
25909 Pala, Suite 200
Mission Viejo, CA 92691

DATE
05.07.2024

SHEET TITLE
SIDEPLATE GENERAL NOTES

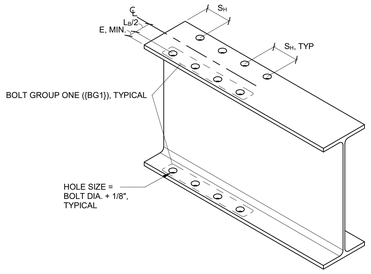
SP100

CONSTRUCTION GUIDELINES

1. THE CONTRACTOR SHALL ASSUME FULL AND COMPLETE RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTING THE STEEL FRAME USING THE SIDEPLATE BOLTED SYSTEM. CONSTRUCTION MEANS AND METHODS SHALL BE COMPLIANT WITH THE CURRENT PROVISIONS OF THE AISC 360 CODE OF STANDARD PRACTICE, THE RCSC HIGH-STRENGTH BOLTING SPECIFICATIONS, AND THE CONSTRUCTION GUIDELINES PROVIDED HEREIN AND SHALL INCLUDE, BUT ARE NOT LIMITED TO:
   a. DIMENSIONAL VERIFICATION AND CONTROL
   b. FABRICATION AND ERECTION PROCEDURES (INCLUDING METHODS FOR CONTROLLING COMBINED MILL, FABRICATION, AND ERECTION TOLERANCES)
   c. CONSTRUCTION AIDS SUCH AS ERECTION RIGGING AND SHORING
   d. PROPER BOLT HOLE ALIGNMENT
   e. PROPER PRETENSIONING OF BOLTS
2. THE SEQUENCE OF CONSTRUCTION OPTIONS PROVIDED BELOW IN THESE CONSTRUCTION GUIDELINES HAVE PROVEN TO BE SUCCESSFUL BY STEEL FABRICATORS AND ERECTORS TO COST EFFICIENTLY CONSTRUCT THE BOLTED SIDEPLATE CONNECTION SYSTEM. VARIATIONS TO THESE CONSTRUCTION SEQUENCE OPTIONS PROVIDED BELOW SHALL BE SUBMITTED FOR REVIEW AND DISPOSITION TO SIDEPLATE SYSTEMS, INC.
3. A PRE-FABRICATION COORDINATION MEETING WITH A SIDEPLATE SYSTEMS, INC. REPRESENTATIVE IS REQUIRED FOR ALL PROJECTS. THE PRE-FABRICATION COORDINATION MEETING IS INTENDED TO SHARE BEST PRACTICES AND COMMON MISTAKES TO AVOID.
4. COLUMN/BEAM SEPARATION (GAP) CLOSURE
   a. PROVIDE A FOLDED STRIP OF LIGHT GAGE METAL, OR SIMILAR, SECURED TO STEEL SURFACES BY DUCT TAPE OR A TACK WELD LOCATED AS CLOSE AS PRACTICABLE TO THE MID SECTION OF THE BEAM FLANGES OR TOP COVER PLATE (B) ACROSS THE PHYSICAL COLUMN/BEAM SEPARATION (GAP) BETWEEN THE BEAM FLANGES OR TOP COVER PLATE (B) AND THE FACE OF COLUMN FLANGE. THIS SHALL PREVENT CONCRETE FILL FROM ENTERING THROUGH THE SEPARATION (GAP).
   b. IN NO CASE SHALL THE FOLDED STRIP OF LIGHT GAGE MATERIAL BE WELDED TO THE EDGE OF SIDE PLATE (A), OR TO THE FACE OF COLUMN FLANGE TO ACHIEVE CLOSURE OF THE PHYSICAL COLUMN/BEAM SEPARATIONS.
5. WHEN NO VSE OPTION IS SPECIFIED, PROVIDE A CLOSURE PLATE, AS NEEDED, FOR SFRM MATERIAL TO MORE EASILY ADHERE TO. ATTACH CLOSURE PLATE TO THE INSIDE OR OUTSIDE FACE OF THE SIDE PLATE (A) WITHIN THE MIDDLE HALF OF THE SIDE PLATE (A) HEIGHT. DO NOT ATTACH CLOSURE PLATE TO THE BEAM FLANGES OR WEB.

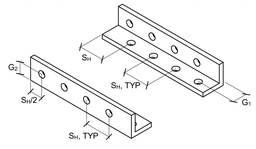
SHOP FABRICATION OF THE SIDEPLATE ALL BOLTED BEAM ASSEMBLY SYSTEM

BEAM STEP 1: CONFIRM BOLT HOLES FOR BOLT GROUP ONE ARE PROPERLY DIMENSIONED AND FABRICATED IN THE BEAM SECTION BY VERIFYING PROPER HOLE DIAMETERS, EDGE DISTANCE, HOLE SPACING, AND HORIZONTAL PLACEMENT.

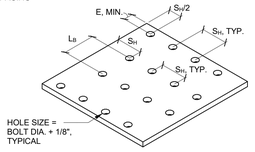


BEAM GRAPHIC NO. 1 - WIDE FLANGE BEAM HOLE LAYOUT

BEAM STEP 2: CONFIRM ANGLES {H} AND PLATE {B}, AS APPLICABLE, ARE CUT TO LENGTH AND THAT THEIR BOLT HOLES ARE PROPERLY DIMENSIONED AND FABRICATED BY VERIFYING PROPER HOLE DIAMETERS, EDGE DISTANCE, AND HOLE SPACING

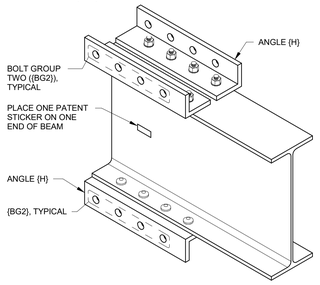


BEAM GRAPHIC NO. 2A - ANGLE {H}

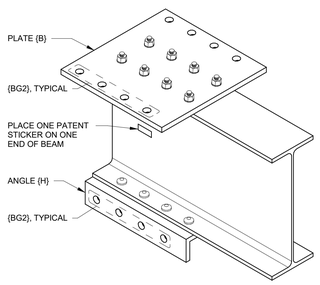


BEAM GRAPHIC NO. 2B - PLATE {B}

BEAM STEP 3: ATTACH BOLT GROUP {BG1} ANGLES {H} AND PLATE {B}, AS APPLICABLE, TO BEAM FLANGES USING HIGH STRENGTH BOLTS. STUFF BOLTS FOR BOLT GROUP {BG1} BUT DO NOT TIGHTEN AT THIS TIME.

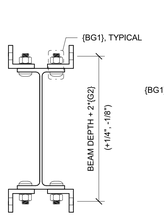


BEAM GRAPHIC NO. 3A - ANGLE {H} ATTACHED TO WIDE FLANGE BEAM NARROW CONFIGURATION

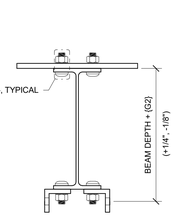


BEAM GRAPHIC NO. 3B - ANGLE {H} AND PLATE {B} ATTACHED TO WIDE FLANGE BEAM STANDARD CONFIGURATION

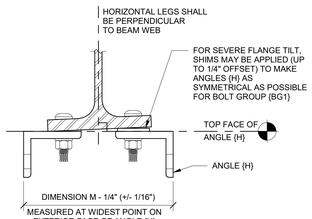
BEAM STEP 4: VERIFY THAT ANGLES {H} AND/OR COVER PLATE {B}, AS APPLICABLE, ARE AS SQUARE TO ONE ANOTHER AS MUCH AS PRACTICABLE. ONCE VERIFIED FOLLOW RCSC SPECIFICATIONS AND SNUG TIGHTEN ALL BOLTS FOR BOLT GROUP {BG1} STARTING WITH THOSE THAT ARE IN CLOSEST CONTACT AND WORKING AWAY. THEN COME BACK IN THIS SAME ORDER AND PRETENSION ALL BOLTS TO FINISH SHOP ATTACHMENT OF BOLT GROUP {BG1}.



BEAM GRAPHIC NO. 4A - COMPLETED NARROW BEAM SUB-ASSEMBLY



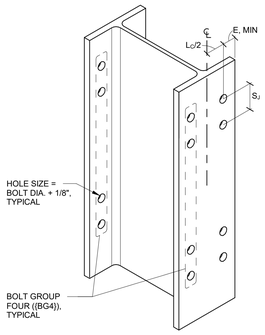
BEAM GRAPHIC NO. 4B - COMPLETED STANDARD BEAM SUB-ASSEMBLY



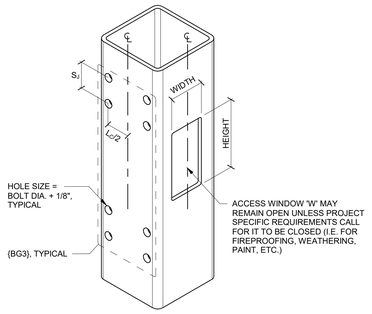
BEAM GRAPHIC NO. 4C - ANGLE {H} PLACEMENT

SHOP FABRICATION OF THE SIDEPLATE ALL BOLTED COLUMN ASSEMBLY SYSTEM

COLUMN STEP 1: CONFIRM BOLT HOLES ARE PROPERLY DIMENSIONED AND FABRICATED IN THE COLUMN SECTION BY VERIFYING PROPER HOLE DIAMETERS, EDGE DISTANCE, HOLE SPACING, AND ELEVATION PLACEMENT.

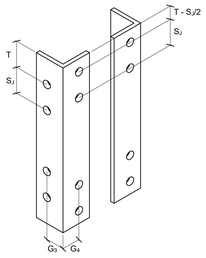


COLUMN GRAPHIC NO. 1A - WIDE FLANGE COLUMN HOLE LAYOUT

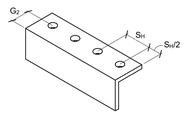


COLUMN GRAPHIC NO. 1B - HSS COLUMN HOLE LAYOUT

COLUMN STEP 2: CONFIRM ANGLES {G} AND {J}, AS APPLICABLE, ARE CUT TO LENGTH AND THAT THEIR BOLT HOLES ARE PROPERLY DIMENSIONED AND FABRICATED BY VERIFYING PROPER HOLE DIAMETERS, EDGE DISTANCE, AND HOLE SPACING.

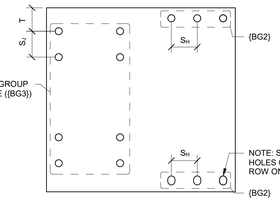


COLUMN GRAPHIC NO. 2A - ANGLES {J}, APPLICABLE FOR WIDE FLANGE COLUMNS

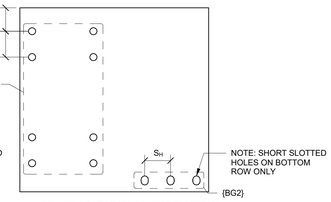


COLUMN GRAPHIC NO. 2B - ANGLES {G}, APPLICABLE FOR STANDARD CONFIGURATIONS (BOTH WIDE FLANGE & HSS COLUMNS)

COLUMN STEP 3: CONFIRM SIDE PLATES {A} ARE CUT TO LENGTH AND THAT THEIR BOLT HOLES ARE PROPERLY DIMENSIONED AND FABRICATED BY VERIFYING PROPER HOLE DIAMETERS, EDGE DISTANCE, AND HOLE SPACING. FOR STANDARD CONFIGURATION THERE WILL NOT BE ANY TOP HORIZONTAL ROW OF BOLTS. FOR BOTH STANDARD AND NARROW CONFIGURATIONS THE BOTTOM ROW OF HORIZONTAL ROWS WILL BE VERTICAL SHORT SLOTTED HOLES.

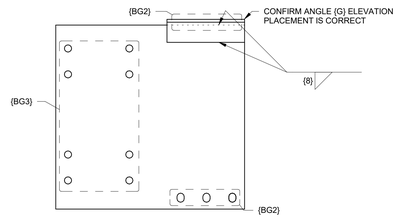


COLUMN GRAPHIC NO. 3A - SIDE PLATES {A} NARROW CONFIGURATION



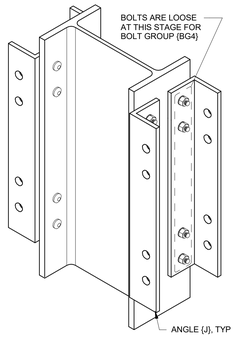
COLUMN GRAPHIC NO. 3B - SIDE PLATES {A} STANDARD CONFIGURATION

- FOR STANDARD CONFIGURATION, PLACE ANGLES {G} ON SIDE PLATES {A} AND CONFIRM THAT THEY ARE SET TO THE PROPER ELEVATION. APPLY WELD {8}.

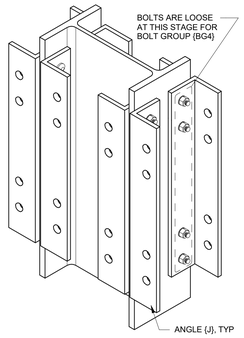


COLUMN GRAPHIC NO. 3C - ANGLES {G} ON SIDE PLATES {A} STANDARD CONFIGURATION

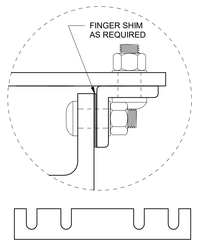
COLUMN STEP 4: WIDE FLANGE COLUMNS ONLY: ATTACH ANGLES {J} TO COLUMN FLANGES USING HIGH STRENGTH BOLTS FOR BOLT GROUP {BG4}. STUFF BOLTS BUT DO NOT TIGHTEN AT THIS TIME; KEEP THEM LOOSE SO THAT HOLE TOLERANCES ASSIST IN PLACING SIDE PLATES {A} AND ITS CORRESPONDING BOLT GROUP {BG3}.



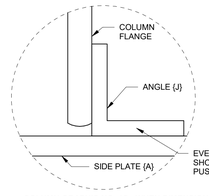
COLUMN GRAPHIC NO. 4A - ANGLES {J} ATTACHED TO WIDE FLANGE COLUMN (OUT-OUT CONFIGURATION)



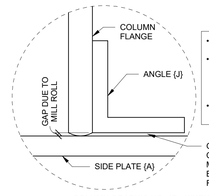
COLUMN GRAPHIC NO. 4B - DOUBLE ANGLES {J} ATTACHED TO WIDE FLANGE COLUMN (DOUBLE-DOUBLE CONFIGURATION)



COLUMN GRAPHIC NO. 4C - FINGER SHIM BETWEEN ANGLE {J} AND FACE OF COLUMN AS REQUIRED



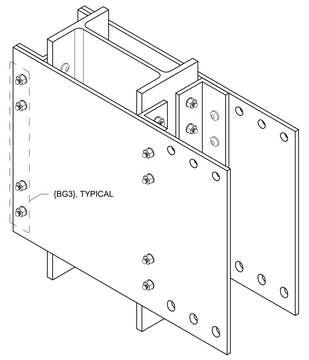
COLUMN GRAPHIC NO. 4C - WHEN DIMENSION 'M' IS GREATER THAN THE NOMINAL COLUMN FLANGE WIDTH



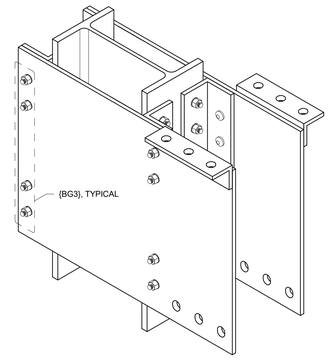
- IF MILL ROLL GAP ≤ 1/16", PROCEED
- IF MILL ROLL GAP > 1/16" AND ≤ 1/4", SHIMS WILL BE REQUIRED BETWEEN ANGLES {J} AND SIDE PLATES {A}
- IF MILL ROLL GAP IS > 1/4", COLUMN FLANGE TRIMMING IS REQUIRED

COLUMN GRAPHIC NO. 4D - WHEN DIMENSION 'M' IS APPROXIMATELY EQUAL TO THE NOMINAL COLUMN FLANGE WIDTH

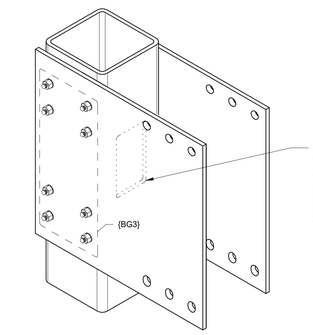
COLUMN STEP 5: ATTACH SIDE PLATES {A} TO ANGLES {J} FOR {BG3} (OR DIRECTLY TO HSS SECTION) USING HIGH STRENGTH BOLTS. ON WIDE FLANGE COLUMNS, WITH THE BOLTS LOOSE ON BOLT GROUP {BG4} THE CONNECTIONS WILL HAVE PLAY WHICH WILL ALLOW THE REMAINING BOLTS FOR {BG3} TO BE STUFFED. THIS CAN BE DONE BY WIGGLING THE SIDE PLATES {A} BACK AND FORTH.



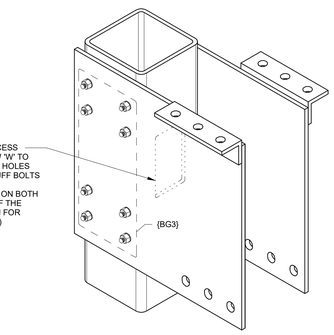
COLUMN GRAPHIC NO. 5A - SIDE PLATES {A} NARROW CONFIGURATION ATTACHED TO WIDE FLANGE COLUMN



COLUMN GRAPHIC NO. 5B - SIDE PLATES {A} STANDARD CONFIGURATION ATTACHED TO WIDE FLANGE COLUMN

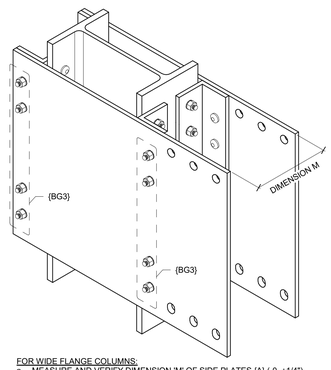


COLUMN GRAPHIC NO. 5C - SIDE PLATES {A} NARROW CONFIGURATION ATTACHED TO HSS COLUMN



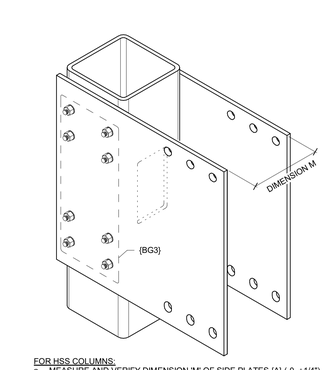
COLUMN GRAPHIC NO. 5D - SIDE PLATES {A} STANDARD CONFIGURATION ATTACHED TO HSS COLUMN

COLUMN STEP 6: AFTER ALL FIT UP IS COMPLETE, CONFIRM THAT DIMENSION 'M' IS SATISFIED AND THEN FOLLOW THE RCSC SPECIFICATIONS FOR PRETENSIONING BOLTS. IF DIMENSION 'M' IS NOT SATISFIED, SHIMS (UP TO 1/4" THICK) MAY BE PLACED BETWEEN THE SIDE PLATES {A} AND ANGLES {J} FOR BOLT GROUP {BG3} OR BETWEEN THE HSS COLUMN FACES AND SIDE PLATES {A} FOR BOLT GROUP {BG3}, AS APPLICABLE.



COLUMN GRAPHIC NO. 6A - WIDE FLANGE COLUMN CLEAR DIMENSION CHECK

FOR WIDE FLANGE COLUMNS:
a. MEASURE AND VERIFY DIMENSION 'M' OF SIDE PLATES {A} (-0, +1/4").
b. IT IS RECOMMENDED TO PUSH THE SIDE PLATES {A} OUT AS FAR AS PRACTICABLE WITHOUT BENDING THEM. THIS WILL ALLOW FOR EASIER ERECTION FIT UP OF THE BEAM IN THE FIELD.
c. ONCE DIMENSION 'M' IS VERIFIED, FOLLOW RCSC SPECIFICATION TO SNUG TIGHTEN COLUMN FLANGE TO ANGLE {J} BOLTS FOR BOLT GROUP {BG4} FIRST.
d. NEXT, PRETENSION COLUMN FLANGE TO ANGLE {J} BOLTS FOR BOLT GROUP {BG4}. THIS WILL LOCK IN THE DIMENSION 'M' POSITION OF THE SIDE PLATES {A}.
e. THEN, FOLLOWING RCSC SPECIFICATION, SNUG TIGHTEN BOLTS TO SIDE PLATES {A} TO ANGLES {J} FOR BOLT GROUP {BG3}.
f. FINISH UP BY PRETENSIONING BOLTS TO SIDE PLATES {A} TO ANGLES {J} FOR BOLT GROUP {BG3}.



COLUMN GRAPHIC NO. 6B - HSS COLUMN CLEAR DIMENSION CHECK

FOR HSS COLUMNS:
a. MEASURE AND VERIFY DIMENSION 'M' OF SIDE PLATES {A} (-0, +1/4").
b. IF DIMENSION 'M' IS NOT SATISFIED, FULL HEIGHT SHIM MAY BE PLACED TO SATISFY DIMENSION 'M'.
c. ACCESS WINDOW 'W' MAY REMAIN OPEN UNLESS REQUIRED BY PROJECT SPECIFIC CRITERIA TO BE CLOSED (I.E. FOR FIREPROOFING, PAINTING, ETC.).
d. ONCE DIMENSION 'M' IS VERIFIED, FOLLOW RCSC SPECIFICATIONS AND SNUG TIGHTEN HIGH STRENGTH BOLTS FOR BOLT GROUP {BG3}.
e. DEPENDING ON COLUMN ORIENTATION, THE HSS BEAM MAY CAUSE A BELLY OR A GAP TO OCCUR BETWEEN THE SIDE PLATE {A} AND ITS FACE, SEE GRAPHIC NO. 6C. FOLLOW RCSC SPECIFICATION TO SNUG TIGHTENING THE BOLTS BY STARTING WITH THE SECTIONS THAT ARE CLOSEST TOGETHER AND WORKING AWAY.
f. FINISH UP BY PRETENSIONING BOLTS TO SIDE PLATES {A} TO HSS FACES IN THE SAME MANNER FOR BOLT GROUP {BG3}.

PRELIMINARY DRAWINGS
NOT FOR CONSTRUCTION

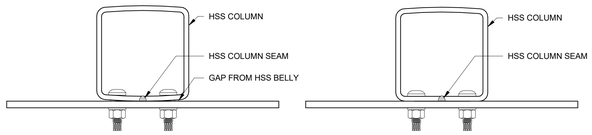
SIDEPLATE® POWERED BY MiTek

SidePlate Systems, Inc.
25909 Pala, Suite 200
Mission Viejo, CA 92691

DATE
05.07.2024

SHEET TITLE
SIDEPLATE CONSTRUCTION GUIDELINES

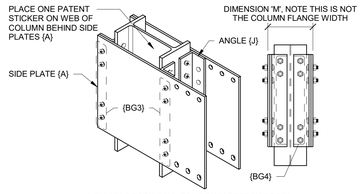
SP101



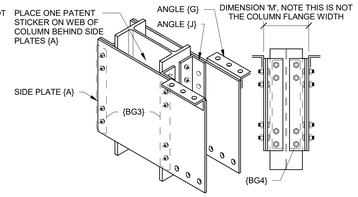
COLUMN GRAPHIC NO. 6C - HSS COLUMN SEAM AND BELLY (LOOSE BOLTS)

COLUMN GRAPHIC NO. 6D - EXPECTED HSS COLUMN CONDITIONS AFTER PRETENSIONING

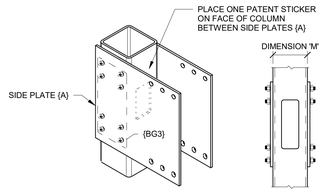
COLUMN STEP 7: COMPLETED COLUMN TREE ASSEMBLIES



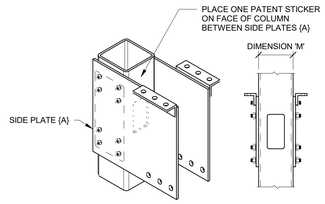
COLUMN GRAPHIC NO. 7A - COMPLETED NARROW WIDE FLANGE COLUMN ASSEMBLY



COLUMN GRAPHIC NO. 7B - COMPLETED STANDARD WIDE FLANGE COLUMN ASSEMBLY



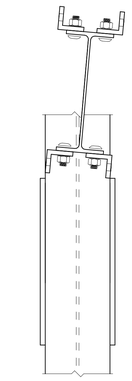
COLUMN GRAPHIC NO. 7C - COMPLETED NARROW HSS COLUMN ASSEMBLY



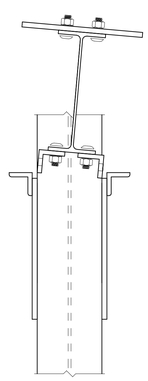
COLUMN GRAPHIC NO. 7D - COMPLETED STANDARD HSS COLUMN ASSEMBLY

FIELD ERECTION OF THE ALL BOLTED SIDEPLATE SYSTEM

FIELD ERECTION STEP 1: CONFIRM BEAM HAS BEEN PROPERLY RACKED FOR EASY INSTALLATION BETWEEN SIDE PLATES {A}. IF IT IS NOT PROPERLY RACKED, IT MAY BIND AND CAUSE DIFFICULTIES.

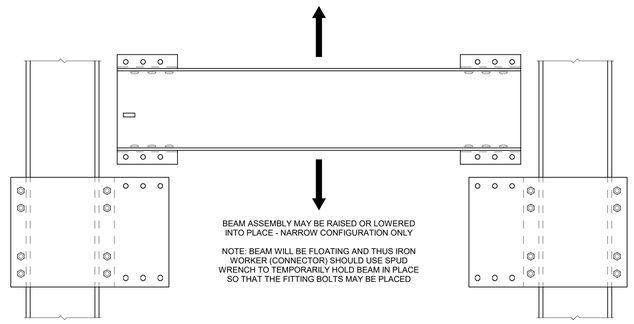


FIELD ERECTION GRAPHIC NO. 1A - INCORRECTLY RACKED WIDE FLANGE BEAM, NARROW CONFIGURATION

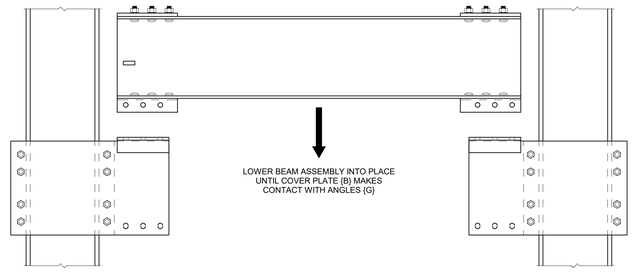


FIELD ERECTION GRAPHIC NO. 1B - INCORRECTLY RACKED WIDE FLANGE BEAM, STANDARD CONFIGURATION

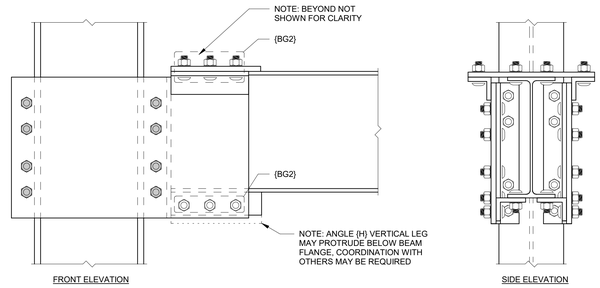
FIELD ERECTION STEP 2: RAISE OR LOWER BEAM ASSEMBLY INTO PLACE BETWEEN SIDE PLATES {A}



FIELD ERECTION GRAPHIC NO. 2A - ERECTION OF ALL BOLTED SIDEPLATE WIDE FLANGE BEAM, NARROW CONFIGURATION

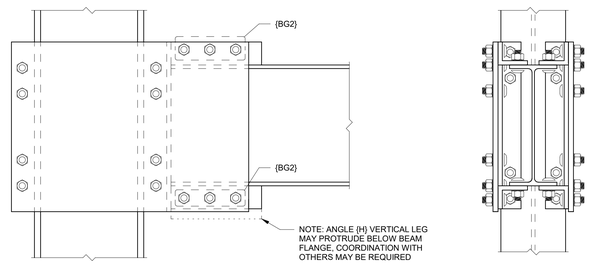


FIELD ERECTION GRAPHIC NO. 2B - ERECTION OF ALL BOLTED SIDEPLATE WIDE FLANGE BEAM, STANDARD CONFIGURATION



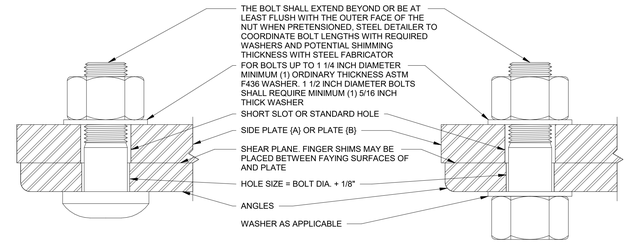
FIELD ERECTION GRAPHIC NO. 3B - PROPER BOLT ORIENTATION FOR STANDARD CONFIGURATION

FIELD ERECTION STEP 3: STUFF HIGH STRENGTH BOLTS FOR BOLT GROUP {BG2} AS SHOWN HERE WITH THEIR PROPER ORIENTATION.

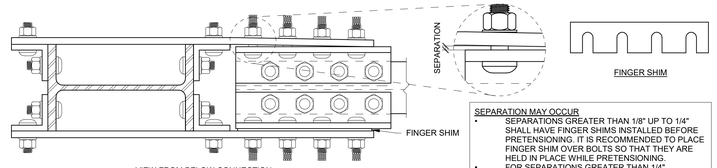


FIELD ERECTION GRAPHIC NO. 3A - PROPER BOLT ORIENTATION FOR NARROW CONFIGURATION

FIELD ERECTION STEP 4: BOLT ORIENTATION AND FINAL FIT UP WITH PRETENSIONED BOLTS



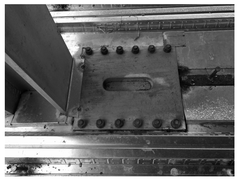
FIELD ERECTION GRAPHIC NO. 4A - BOLTING DETAILS



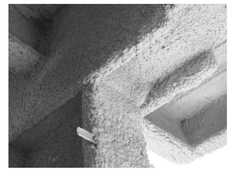
SEPARATION MAY OCCUR
- SEPARATIONS GREATER THAN 1/8" UP TO 1/4" SHALL HAVE FINGER SHIMS INSTALLED BEFORE PRETENSIONING. IT IS RECOMMENDED TO PLACE FINGER SHIM OVER BOLTS SO THAT THEY ARE HELD IN PLACE WHILE PRETENSIONING.
- FOR SEPARATIONS GREATER THAN 1/4", CONTACT SIDEPLATE SYSTEMS, INC.
- SEPARATIONS UP TO 1/8" SHALL BE ALLOWED AFTER BOLTS HAVE BEEN PRETENSIONED

FIELD ERECTION GRAPHIC NO. 4B - COMMONLY SEEN SEPARATIONS AT SIDE PLATE TO ANGLE (H) INTERFACE

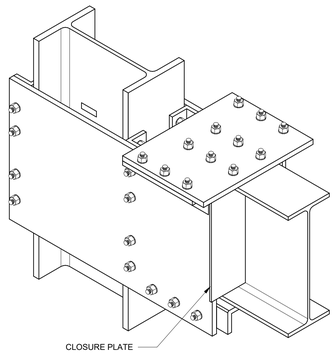
FIELD ERECTION STEP 5: MISCELLANEOUS DETAILING NEEDS FOR INTERACTIONS WITH THE SIDEPLATE CONNECTIONS.



FIELD ERECTION GRAPHIC NO. 5A - TYPICAL GAP CLOSURE AT THE TOP OF THE GAP



FIELD ERECTION GRAPHIC NO. 5B - FIREPROOFING ACROSS THE BOTTOM OF THE GAP



FIELD ERECTION GRAPHIC NO. 5C - FIREPROOFING ACROSS THE BEAM WEB TO SIDE PLATE GAP

PRELIMINARY DRAWINGS
NOT FOR CONSTRUCTION

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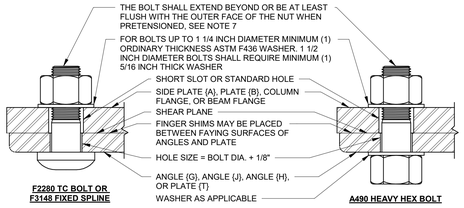
SidePlate Systems, Inc.
25909 Pala, Suite 200
Mission Viejo, CA 92691

DATE
05.07.2024

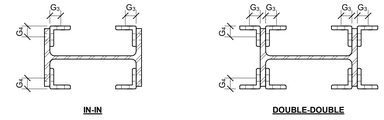
SHEET TITLE
SIDEPLATE CONSTRUCTION GUIDELINES

SP102

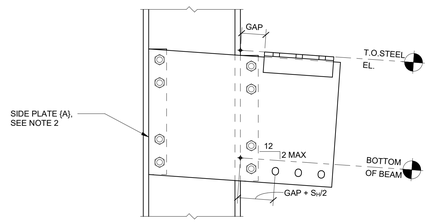


NOTE(S):
1. BOLTS SHALL BE INSTALLED AS SHOWN TO KEEP THREADS OUTSIDE OF SHEAR PLANE.
2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.
3. USE FINGER SHIMS FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS, INC. IF GAPS ARE GREATER THAN 1/4 INCH.
4. NUT SHALL BE ASTM A563.
5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.
7. STEEL DETAILER TO COORDINATE BOLT LENGTHS WITH REQUIRED WASHERS AND POTENTIAL SHIMMING THICKNESS WITH STEEL FABRICATOR.
8. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
9. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF THE HOLE TO THE EDGE OF THE CONNECTED PART IS PERMITTED TO BE LESS THAN THE MINIMUM EDGE DISTANCE PRESCRIBED BY AISC TABLE J3.4 FOR EACH BOLT DIAMETER, BUT SHALL NOT BE LESS THAN ONE BOLT DIAMETER.
10. BOLT ORIENTATION IS PERMITTED TO BE FLIPPED IF THE FOLLOWING CONDITIONS ARE MET: A. IF A HEAVY HEX BOLT IS USED, AN ADDITIONAL WASHER ON THE SLOTTED HOLE SIDE IS REQUIRED. VERIFY THREAD ARE EXCLUDED FROM THE SHEAR PLANE. B. IF A TC BOLT IS USED, NO ADDITIONAL WASHER IS REQUIRED. VERIFY THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
11. WHEN USING DIRECT TENSION INDICATORS (DTI) FOR PRETENSIONING, VERIFY IF ADDITIONAL WASHER IS REQUIRED TO ENSURE DTIs CAN WORK EFFECTIVELY WHEN PRETENSIONED.

3 SHOP BOLTING DETAIL
N.T.S.

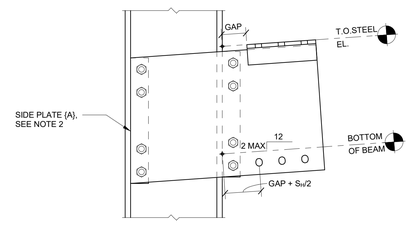


6 ANGLE {J} CONFIGURATIONS
N.T.S.



NOTE(S):
1. FOR BEAM SLOPES > 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.

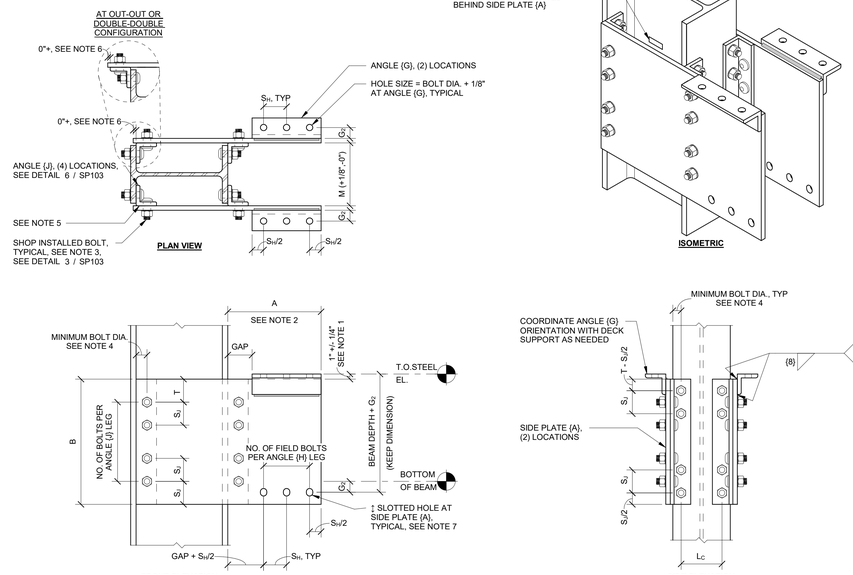
5 SLOPED DOWN STANDARD CONNECTION (AS APPLICABLE)
N.T.S.



NOTE(S):
1. FOR BEAM SLOPES > 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.

4 SLOPED UP STANDARD CONNECTION (AS APPLICABLE)
N.T.S.

2 A TYPE ALL BOLTED COLUMN STANDARD CONNECTION SCHEDULE
N.T.S.



NOTE(S):
1. THE +/- 1/4 INCH TOLERANCE FOR PLACEMENT OF ANGLES {G} IS TO ENSURE CORRECT TOP OF STEEL PLACEMENT RELATIVE TO THE CENTERLINE OF THE BOTTOM HORIZONTAL ROW OF BOLT HOLES. THE PLACEMENT OF ANGLES {G} SHALL NEVER BE MEASURED FROM THE BOTTOM EDGE OF SIDE PLATE {A} TO ESTABLISH THE CORRECT TOP OF STEEL.
2. DIMENSION A = GAP+(NO. OF FIELD BOLTS)*(S_H)
3. HOLE SIZE = BOLT DIAMETER + 1/8 INCH, UNLESS NOTED OTHERWISE.
4. DIMENSION IS THE MINIMUM VALUE REQUIRED, DUE TO MILL TOLERANCE IT IS ALLOWED TO BE LARGER.
5. SHIM AS APPLICABLE TO MEET DIMENSION 'M' CRITERIA, UP TO 1/4 INCH THICKNESS OF SHIMMING. OTHERWISE CONTACT SIDEPLATE SYSTEMS, INC.
6. THE + TOLERANCE IS APPLIED SO THAT IF DESIRED, THE DETAILER CAN MAKE THE SIDE PLATES {A} THE SAME LENGTH WITH SLIGHTLY VARYING COLUMN DEPTHS WITHIN A GROUP OF THE SAME CONNECTION ID'S.
7. SLOTTED HOLE SIZE AS FOLLOWS: 1" DIAMETER BOLT = 1 1/8"X1 5/16" SLOT, 1 1/8" DIAMETER BOLT = 1 1/4"X1 1/2" SLOT, 1 1/4" BOLT = 1 3/8"X1 5/8" SLOT.

1 A TYPE ALL BOLTED STANDARD CONNECTION
N.T.S.

PRELIMINARY DRAWINGS
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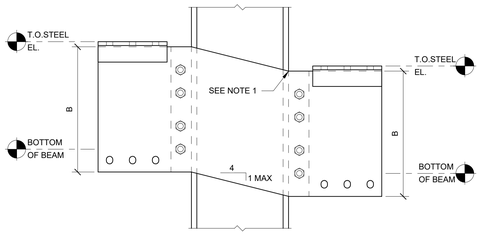
SIDEPLATE® POWERED BY MiTek

SidePlate Systems, Inc.
25909 Pala, Suite 200
Mission Viejo, CA 92691

DATE
05.07.2024

SHEET TITLE
SIDEPLATE ALL BOLTED COLUMN DETAILS, A TYPE

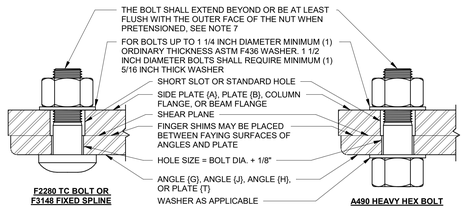
SP103



FRONT ELEVATION

NOTE(S):
1. BEGIN SLOPE OF SIDE PLATE (A) AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL.
2. UNIVERSAL STEP DETAIL MAY BE USED AS AN ALTERNATE. REFER TO DETAIL

7 STEP DETAIL (AS APPLICABLE)
N.T.S.

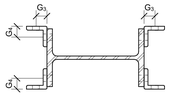


F2280 TC BOLT OR F3148 FIXED SPLINE **A490 HEAVY HEX BOLT**

NOTE(S):
1. BOLTS SHALL BE INSTALLED AS SHOWN TO KEEP THREADS OUTSIDE OF SHEAR PLANE.
2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.
3. USE FINGER SHIMS FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS, INC. IF GAPS ARE GREATER THAN 1/4 INCH.
4. NUT SHALL BE ASTM A563.
5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.
7. STEEL DETAILER TO COORDINATE BOLT LENGTHS WITH REQUIRED WASHERS AND POTENTIAL SHIMMING THICKNESS WITH STEEL FABRICATOR.
8. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
9. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF THE HOLE TO THE EDGE OF THE CONNECTED PART IS PERMITTED TO BE LESS THAN THE MINIMUM EDGE DISTANCE PRESCRIBED BY AISC TABLE J3.4 FOR EACH BOLT DIAMETER, BUT SHALL NOT BE LESS THAN ONE BOLT DIAMETER.
10. BOLT ORIENTATION IS PERMITTED TO BE FLIPPED IF THE FOLLOWING CONDITIONS ARE MET: A. IF A HEAVY HEX BOLT IS USED, AN ADDITIONAL WASHER ON THE SLOTTED HOLE SIDE IS REQUIRED. VERIFY THREAD ARE EXCLUDED FROM THE SHEAR PLANE. B. IF A TC BOLT IS USED, NO ADDITIONAL WASHER IS REQUIRED. VERIFY THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
11. WHEN USING DIRECT TENSION INDICATORS (DTI) FOR PRETENSIONING, VERIFY IF ADDITIONAL WASHER IS REQUIRED TO ENSURE DTIs CAN WORK EFFECTIVELY WHEN PRETENSIONED.

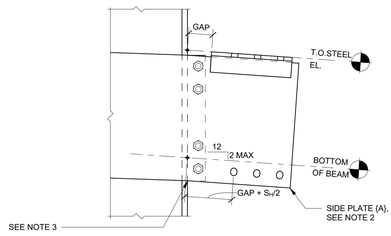
3 SHOP BOLTING DETAIL
N.T.S.

IN-IN **DOUBLE-DOUBLE**



OUT-OUT

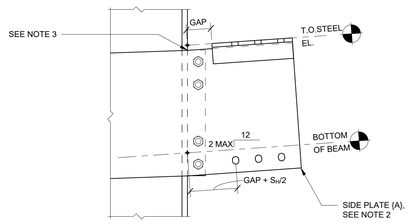
6 ANGLE {J} CONFIGURATIONS
N.T.S.



FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

5 SLOPED DOWN STANDARD CONNECTION (AS APPLICABLE)
N.T.S.

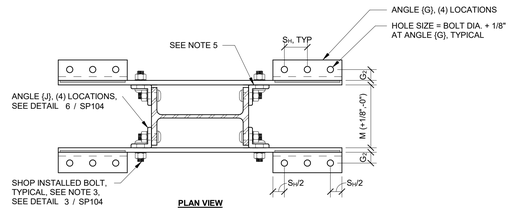


FRONT ELEVATION

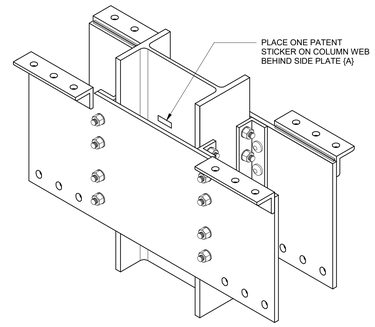
NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

4 SLOPED UP STANDARD CONNECTION (AS APPLICABLE)
N.T.S.

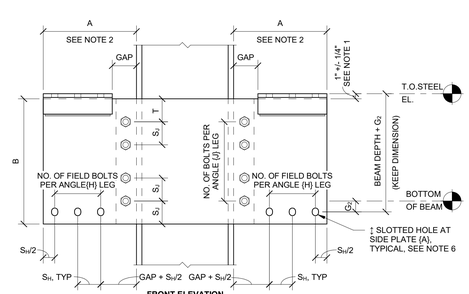
2 B TYPE ALL BOLTED COLUMN STANDARD CONNECTION SCHEDULE
N.T.S.



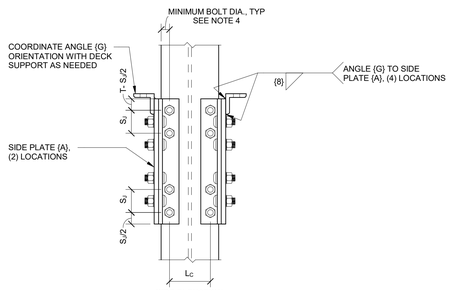
PLAN VIEW



ISOMETRIC



FRONT ELEVATION



SIDE ELEVATION

NOTE(S):
1. THE +/- 1/4 INCH TOLERANCE FOR PLACEMENT OF ANGLES (G) IS TO ENSURE CORRECT TOP OF STEEL PLACEMENT RELATIVE TO THE CENTERLINE OF THE BOTTOM HORIZONTAL ROW OF BOLT HOLES. THE PLACEMENT OF ANGLES (G) SHALL NEVER BE MEASURED FROM THE BOTTOM EDGE OF SIDE PLATE (A) TO ESTABLISH THE CORRECT TOP OF STEEL.
2. DIMENSION A = GAP+(NO. OF FIELD BOLTS)*(S1)
3. HOLE SIZE = BOLT DIAMETER + 1/8 INCH, UNLESS NOTED OTHERWISE.
4. DIMENSION IS THE MINIMUM VALUE REQUIRED, DUE TO MILL TOLERANCE IT IS ALLOWED TO BE LARGER.
5. SHIM AS APPLICABLE TO MEET DIMENSION 'M' CRITERIA, UP TO 1/4 INCH THICKNESS OF SHIMMING. OTHERWISE CONTACT SIDEPLATE SYSTEMS, INC.
6. SLOTTED HOLE SIZE AS FOLLOWS: 1" DIAMETER BOLT = 1 1/8"X1 5/16" SLOT, 1 1/8" DIAMETER BOLT = 1 1/4"X1 1/2" SLOT, 1 1/4" BOLT = 1 3/8"X1 5/8" SLOT.

1 B TYPE ALL BOLTED STANDARD CONNECTION
N.T.S.

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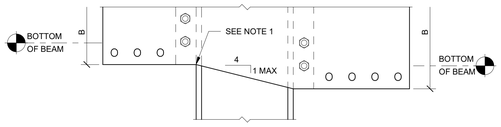
SidePlate Systems, Inc.
25909 Pala, Suite 200
Mission Viejo, CA 92691

DATE
05.07.2024

SHEET TITLE
SIDEPLATE ALL BOLTED COLUMN DETAILS, B TYPE

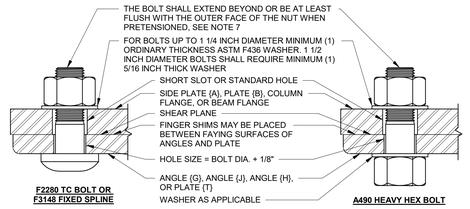
SP104



FRONT ELEVATION

NOTE(S):
1. BEGIN SLOPE OF SIDE PLATE (A) AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL.
2. UNIVERSAL STEP DETAIL MAY BE USED AS AN ALTERNATE. REFER TO DETAIL

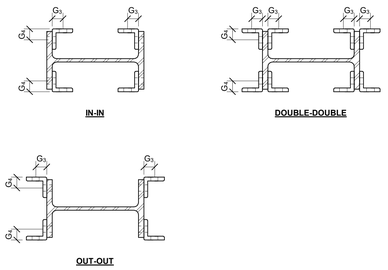
7 SUBTLE STEP BOTTOM DETAIL (AS APPLICABLE)
N.T.S.



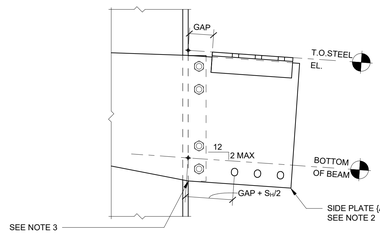
F2280 TC BOLT OR F3148 FIXED SPLINE — **A490 HEAVY HEX BOLT**

NOTE(S):
1. BOLTS SHALL BE INSTALLED AS SHOWN TO KEEP THREADS OUTSIDE OF SHEAR PLANE.
2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.
3. USE FINGER SHIMS FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS, INC. IF GAPS ARE GREATER THAN 1/4 INCH.
4. NUT SHALL BE ASTM A563.
5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.
7. STEEL DETAILER TO COORDINATE BOLT LENGTHS WITH REQUIRED WASHERS AND POTENTIAL SHIMMING THICKNESS WITH STEEL FABRICATOR.
8. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
9. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF THE HOLE TO THE EDGE OF THE CONNECTED PART IS PERMITTED TO BE LESS THAN THE MINIMUM EDGE DISTANCE PRESCRIBED BY AISC TABLE J3.4 FOR EACH BOLT DIAMETER, BUT SHALL NOT BE LESS THAN ONE BOLT DIAMETER.
10. BOLT ORIENTATION IS PERMITTED TO BE FLIPPED IF THE FOLLOWING CONDITIONS ARE MET: A. IF A HEAVY HEX BOLT IS USED, AN ADDITIONAL WASHER ON THE SLOTTED HOLE SIDE IS REQUIRED. VERIFY THREAD ARE EXCLUDED FROM THE SHEAR PLANE. B. IF A TC BOLT IS USED, NO ADDITIONAL WASHER IS REQUIRED. VERIFY THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
11. WHEN USING DIRECT TENSION INDICATORS (DTI) FOR PRETENSIONING, VERIFY IF ADDITIONAL WASHER IS REQUIRED TO ENSURE DTIs CAN WORK EFFECTIVELY WHEN PRETENSIONED.

3 SHOP BOLTING DETAIL
N.T.S.



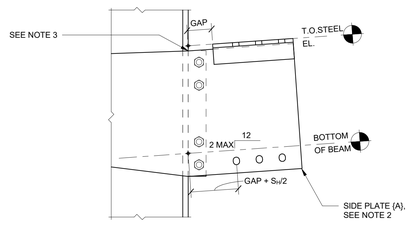
6 ANGLE {J} CONFIGURATIONS
N.T.S.



FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

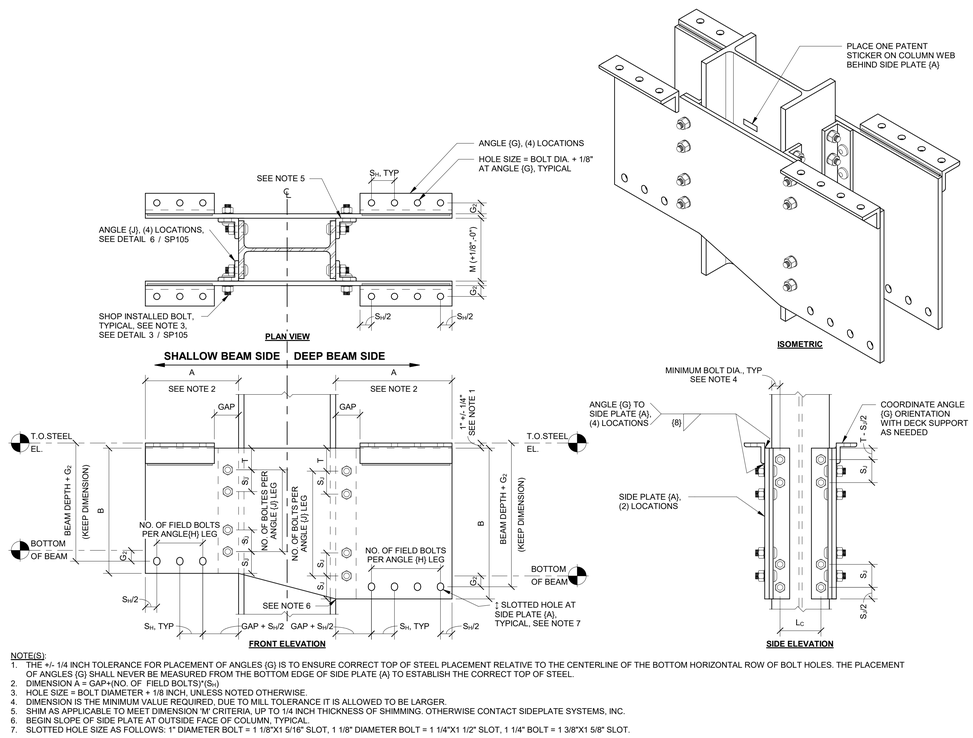
5 SLOPED DOWN STANDARD CONNECTION (AS APPLICABLE)
N.T.S.



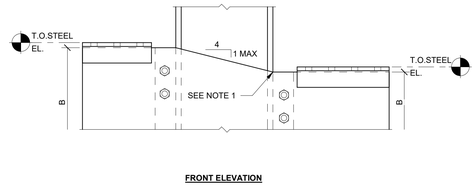
FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

2 C TYPE ALL BOLTED COLUMN STANDARD CONNECTION SCHEDULE
N.T.S.



NOTE(S):
1. THE +/- 1/4 INCH TOLERANCE FOR PLACEMENT OF ANGLES {G} IS TO ENSURE CORRECT TOP OF STEEL PLACEMENT RELATIVE TO THE CENTERLINE OF THE BOTTOM HORIZONTAL ROW OF BOLT HOLES. THE PLACEMENT OF ANGLES {G} SHALL NEVER BE MEASURED FROM THE BOTTOM EDGE OF SIDE PLATE {A} TO ESTABLISH THE CORRECT TOP OF STEEL.
2. DIMENSION A = GAP+(NO. OF FIELD BOLTS)*(SI)
3. HOLE SIZE = BOLT DIAMETER + 1/8 INCH, UNLESS NOTED OTHERWISE.
4. DIMENSION IS THE MINIMUM VALUE REQUIRED, DUE TO MILL TOLERANCE IT IS ALLOWED TO BE LARGER.
5. SHIM AS APPLICABLE TO MEET DIMENSION "M" CRITERIA, UP TO 1/4 INCH THICKNESS OF SHIMMING. OTHERWISE CONTACT SIDEPLATE SYSTEMS, INC.
6. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN, TYPICAL.
7. SLOTTED HOLE SIZE AS FOLLOWS: 1" DIAMETER BOLT = 1 1/8"X1 5/16" SLOT, 1 1/8" DIAMETER BOLT = 1 1/4"X1 1/2" SLOT, 1 1/4" BOLT = 1 3/8"X1 5/8" SLOT.



FRONT ELEVATION

NOTE(S):
1. BEGIN SLOPE OF SIDE PLATE (A) AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL.
2. UNIVERSAL STEP DETAIL MAY BE USED AS AN ALTERNATE. REFER TO DETAIL

8 SUBTLE STEP TOP DETAIL (AS APPLICABLE)
N.T.S.

4 SLOPED UP STANDARD CONNECTION (AS APPLICABLE)
N.T.S.

1 C TYPE ALL BOLTED STANDARD CONNECTION
N.T.S.

PRELIMINARY DRAWINGS
NOT FOR CONSTRUCTION

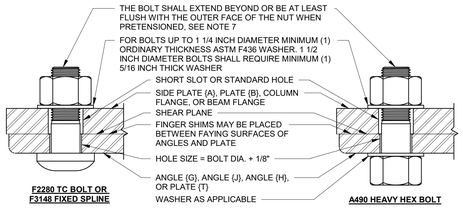
SIDEPLATE® POWERED BY MiTek

SidePlate Systems, Inc.
25909 Pala, Suite 200
Mission Viejo, CA 92691

DATE
05.07.2024

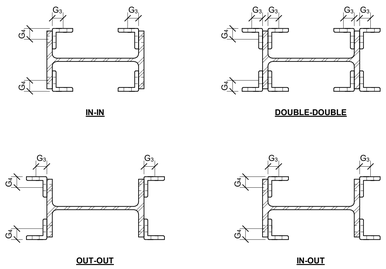
SHEET TITLE
SIDEPLATE ALL BOLTED COLUMN DETAILS, C TYPE

SP105

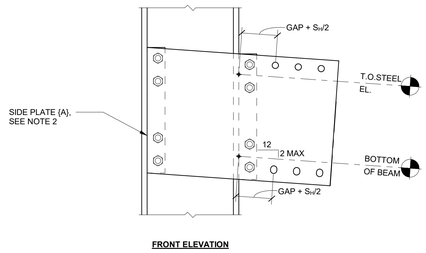


NOTE(S):
1. BOLTS SHALL BE INSTALLED AS SHOWN TO KEEP THREADS OUTSIDE OF SHEAR PLANE.
2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.
3. USE FINGER SHIMS FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS, INC. IF GAPS ARE GREATER THAN 1/4 INCH.
4. NUT SHALL BE ASTM A563.
5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.
7. STEEL DETAILER TO COORDINATE BOLT LENGTHS WITH REQUIRED WASHERS AND POTENTIAL SHIMMING THICKNESS WITH STEEL FABRICATOR.
8. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
9. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF THE HOLE TO THE EDGE OF THE CONNECTED PART IS PERMITTED TO BE LESS THAN THE MINIMUM EDGE DISTANCE PRESCRIBED BY AISC TABLE J3.4 FOR EACH BOLT DIAMETER, BUT SHALL NOT BE LESS THAN ONE BOLT DIAMETER.
10. BOLT ORIENTATION IS PERMITTED TO BE FLIPPED IF THE FOLLOWING CONDITIONS ARE MET: A. IF A HEAVY HEX BOLT IS USED, AN ADDITIONAL WASHER ON THE SLOTTED HOLE SIDE IS REQUIRED. VERIFY THREAD ARE EXCLUDED FROM THE SHEAR PLANE. B. IF A TC BOLT IS USED, NO ADDITIONAL WASHER IS REQUIRED. VERIFY THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
11. WHEN USING DIRECT TENSION INDICATORS (DTI) FOR PRETENSIONING. VERIFY IF ADDITIONAL WASHER IS REQUIRED TO ENSURE DTIs CAN WORK EFFECTIVELY WHEN PRETENSIONED.

3 SHOP BOLTING DETAIL
N.T.S.

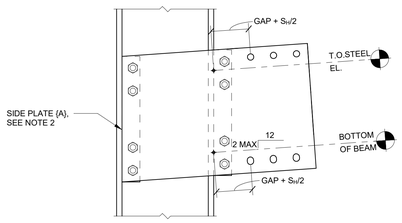


6 ANGLE {J} CONFIGURATIONS
N.T.S.



NOTE(S):
1. FOR BEAM SLOPES > 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.

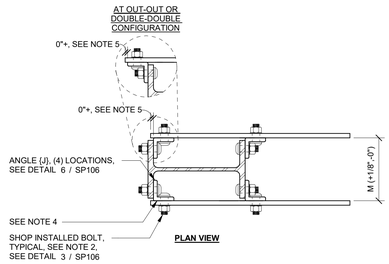
5 SLOPED DOWN NARROW CONNECTION (AS APPLICABLE)
N.T.S.

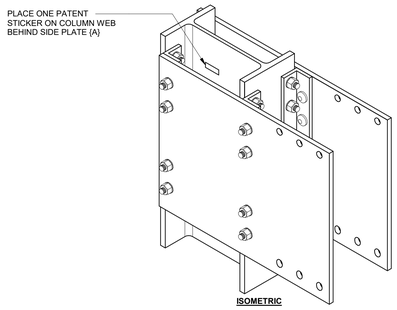


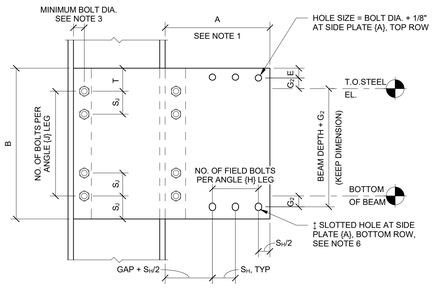
NOTE(S):
1. FOR BEAM SLOPES > 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.

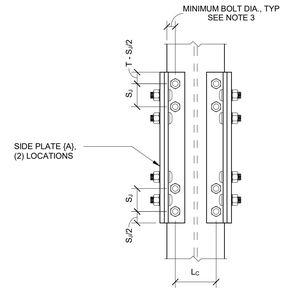
4 SLOPED UP NARROW CONNECTION (AS APPLICABLE)
N.T.S.

2 A TYPE ALL BOLTED COLUMN NARROW CONNECTION SCHEDULE
N.T.S.









NOTE(S):
1. DIMENSION A = GAP+(NO. OF FIELD BOLTS)*(S_H)
2. HOLE SIZE = BOLT DIAMETER + 1/8 INCH, UNLESS NOTED OTHERWISE.
3. DIMENSION IS THE MINIMUM VALUE REQUIRED, DUE TO MILL TOLERANCE IT IS ALLOWED TO BE LARGER.
4. SHIM AS APPLICABLE TO MEET DIMENSION 'M' CRITERIA, UP TO 1/4 INCH THICKNESS OF SHIMMING. OTHERWISE CONTACT SIDEPLATE SYSTEMS, INC.
5. THE + TOLERANCE IS APPLIED SO THAT IF DESIRED, THE DETAILER CAN MAKE THE SIDE PLATES (A) THE SAME LENGTH WITH SLIGHTLY VARYING COLUMN DEPTHS WITHIN A GROUP OF THE SAME CONNECTION ID'S.
6. SLOTTED HOLE SIZE AS FOLLOWS: 1" DIAMETER BOLT = 1 1/8"X1 5/16" SLOT, 1 1/8" DIAMETER BOLT = 1 1/4"X1 1/2" SLOT, 1 1/4" BOLT = 1 3/8"X1 5/8" SLOT.

1 A TYPE ALL BOLTED NARROWCONNECTION
N.T.S.

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NOT FOR CONSTRUCTION

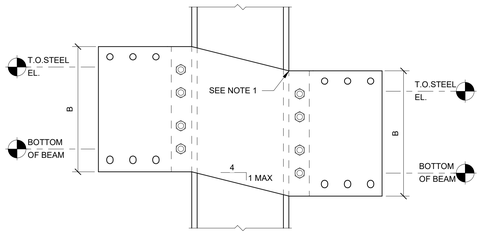
SIDEPLATE® POWERED BY MiTek

SidePlate Systems, Inc.
25909 Pala, Suite 200
Mission Viejo, CA 92691

DATE
05.07.2024

SHEET TITLE
SIDEPLATE ALL BOLTED COLUMN DETAILS, A TYPE NARROW

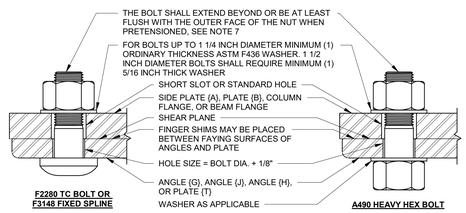
SP106



FRONT ELEVATION

NOTE(S):
1. BEGIN SLOPE OF SIDE PLATE (A) AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL.
2. UNIVERSAL STEP DETAIL MAY BE USED AS AN ALTERNATE. REFER TO DETAIL

7 STEP DETAIL (AS APPLICABLE)
N.T.S.



F2280 TC BOLT OR F3148 FIXED SPLINE

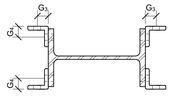
A490 HEAVY HEX BOLT

NOTE(S):
1. BOLTS SHALL BE INSTALLED AS SHOWN TO KEEP THREADS OUTSIDE OF SHEAR PLANE.
2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.
3. USE FINGER SHIMS FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS, INC. IF GAPS ARE GREATER THAN 1/4 INCH.
4. NUT SHALL BE ASTM A563.
5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.
7. STEEL DETAILER TO COORDINATE BOLT LENGTHS WITH REQUIRED WASHERS AND POTENTIAL SHIMMING THICKNESS WITH STEEL FABRICATOR.
8. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
9. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF THE HOLE TO THE EDGE OF THE CONNECTED PART IS PERMITTED TO BE LESS THAN THE MINIMUM EDGE DISTANCE PRESCRIBED BY AISC TABLE J3.4 FOR EACH BOLT DIAMETER, BUT SHALL NOT BE LESS THAN ONE BOLT DIAMETER.
10. BOLT ORIENTATION IS PERMITTED TO BE FLIPPED IF THE FOLLOWING CONDITIONS ARE MET: A. IF A HEAVY HEX BOLT IS USED, AN ADDITIONAL WASHER ON THE SLOTTED HOLE SIDE IS REQUIRED. VERIFY THREAD ARE EXCLUDED FROM THE SHEAR PLANE. B. IF A TC BOLT IS USED, NO ADDITIONAL WASHER IS REQUIRED. VERIFY THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
11. WHEN USING DIRECT TENSION INDICATORS (DTI) FOR PRETENSIONING. VERIFY IF ADDITIONAL WASHER IS REQUIRED TO ENSURE DTIs CAN WORK EFFECTIVELY WHEN PRETENSIONED.

3 SHOP BOLTING DETAIL
N.T.S.

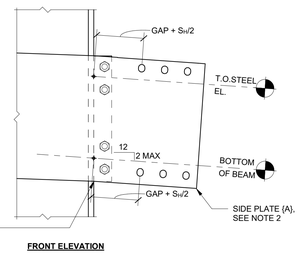
IN-IN

DOUBLE-DOUBLE



OUT-OUT

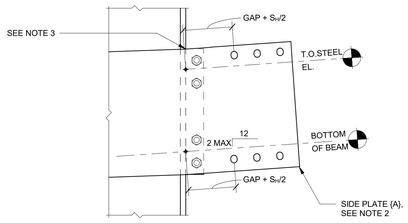
6 ANGLE {J} CONFIGURATIONS
N.T.S.



FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

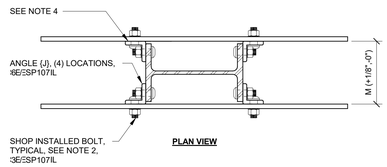
5 SLOPED DOWN NARROW CONNECTION (AS APPLICABLE)
N.T.S.



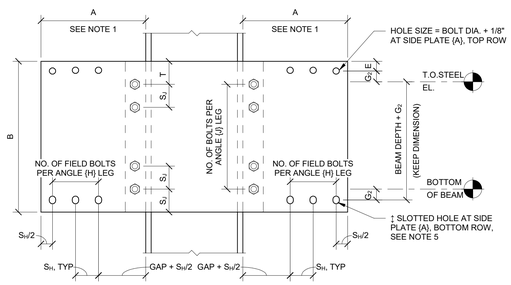
FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

4 SLOPED UP NARROW CONNECTION (AS APPLICABLE)
N.T.S.



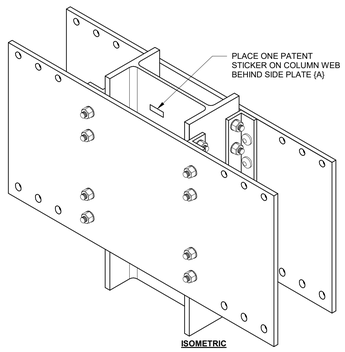
PLAN VIEW



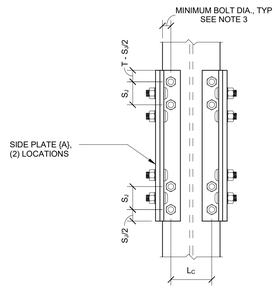
FRONT ELEVATION

NOTE(S):
1. DIMENSION A = GAP+(NO. OF FIELD BOLTS)*(SH)
2. HOLE SIZE = BOLT DIAMETER + 1/8 INCH, UNLESS NOTED OTHERWISE.
3. DIMENSION IS THE MINIMUM VALUE REQUIRED, DUE TO MILL TOLERANCE IT IS ALLOWED TO BE LARGER.
4. SHIM AS APPLICABLE TO MEET DIMENSION 'M' CRITERIA, UP TO 1/4 INCH THICKNESS OF SHIMMING. OTHERWISE CONTACT SIDEPLATE SYSTEMS, INC.
5. SLOTTED HOLE SIZE AS FOLLOWS: 1" DIAMETER BOLT = 1 1/8"X1 5/16" SLOT, 1 1/8" DIAMETER BOLT = 1 1/4"X1 1/2" SLOT, 1 1/4" BOLT = 1 3/8"X1 5/8" SLOT.

2 B TYPE NARROW COLUMN CONNECTION SCHEDULE
N.T.S.



ISOMETRIC



SIDE ELEVATION

1 B TYPE NARROW ALL BOLTED CONNECTION
N.T.S.

PRELIMINARY DRAWINGS
NOT FOR CONSTRUCTION

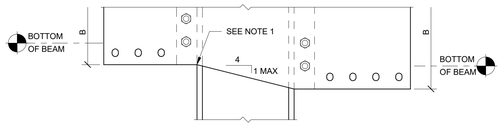
SIDEPLATE® POWERED BY MiTek

SidePlate Systems, Inc.
25909 Pala, Suite 200
Mission Viejo, CA 92691

DATE
05.07.2024

SHEET TITLE
SIDEPLATE ALL BOLTED COLUMN DETAILS, B TYPE NARROW

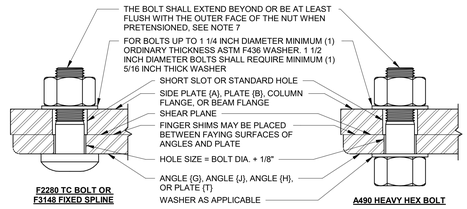
SP107



FRONT ELEVATION

NOTE(S):
1. BEGIN SLOPE OF SIDE PLATE {A} AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL.
2. UNIVERSAL STEP DETAIL MAY BE USED AS AN ALTERNATE. REFER TO DETAIL

7 SUBTLE STEP BOTTOM DETAIL (AS APPLICABLE)
N.T.S.

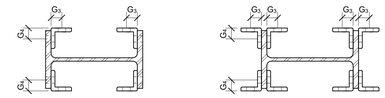


F2280 TC BOLT OR F3148 FIXED SPLINE

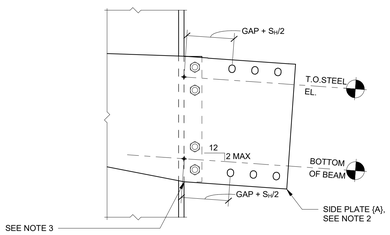
A490 HEAVY HEX BOLT

NOTE(S):
1. BOLTS SHALL BE INSTALLED AS SHOWN TO KEEP THREADS OUTSIDE OF SHEAR PLANE.
2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.
3. USE FINGER SHIMS FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS, INC. IF GAPS ARE GREATER THAN 1/4 INCH.
4. NUT SHALL BE ASTM A563.
5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.
7. STEEL DETAILER TO COORDINATE BOLT LENGTHS WITH REQUIRED WASHERS AND POTENTIAL SHIMMING THICKNESS WITH STEEL FABRICATOR.
8. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
9. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF THE HOLE TO THE EDGE OF THE CONNECTED PART IS PERMITTED TO BE LESS THAN THE MINIMUM EDGE DISTANCE PRESCRIBED BY AISC TABLE J3.4 FOR EACH BOLT DIAMETER, BUT SHALL NOT BE LESS THAN ONE BOLT DIAMETER.
10. BOLT ORIENTATION IS PERMITTED TO BE FLIPPED IF THE FOLLOWING CONDITIONS ARE MET: A. IF A HEAVY HEX BOLT IS USED, AN ADDITIONAL WASHER ON THE SLOTTED HOLE SIDE IS REQUIRED. VERIFY THREAD ARE EXCLUDED FROM THE SHEAR PLANE. B. IF A TC BOLT IS USED, NO ADDITIONAL WASHER IS REQUIRED. VERIFY THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
11. WHEN USING DIRECT TENSION INDICATORS (DTI) FOR PRETENSIONING. VERIFY IF ADDITIONAL WASHER IS REQUIRED TO ENSURE DTIs CAN WORK EFFECTIVELY WHEN PRETENSIONED.

3 SHOP BOLTING DETAIL
N.T.S.



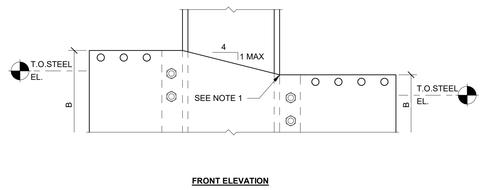
6 ANGLE {J} CONFIGURATIONS
N.T.S.



FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

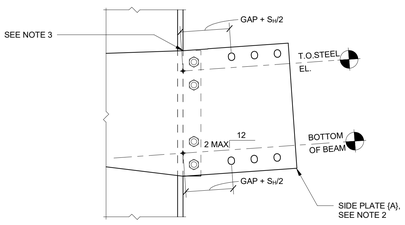
5 SLOPED DOWN NARROW CONNECTION (AS APPLICABLE)
N.T.S.



FRONT ELEVATION

NOTE(S):
1. BEGIN SLOPE OF SIDE PLATE {A} AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL.
2. UNIVERSAL STEP DETAIL MAY BE USED AS AN ALTERNATE. REFER TO DETAIL

8 SUBTLE STEP TOP DETAIL (AS APPLICABLE)
N.T.S.

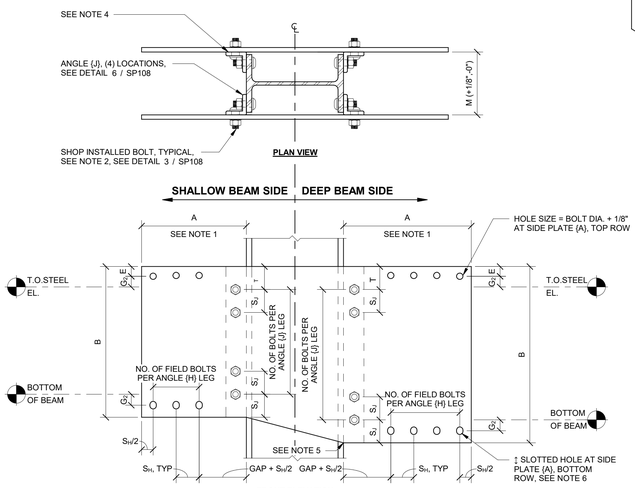


FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

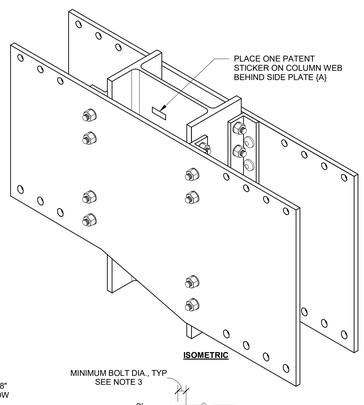
4 SLOPED UP NARROW CONNECTION (AS APPLICABLE)
N.T.S.

2 B TYPE ALL BOLTED COLUMN NARROW CONNECTION SCHEDULE
N.T.S.

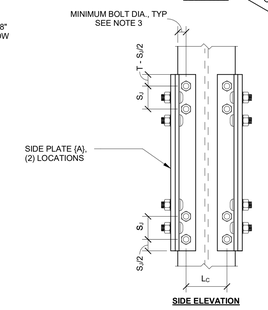


FRONT ELEVATION

NOTE(S):
1. DIMENSION A = GAP+(NO. OF FIELD BOLTS)*(S_H).
2. HOLE SIZE = BOLT DIAMETER + 1/8 INCH, UNLESS NOTED OTHERWISE.
3. DIMENSION IS THE MINIMUM VALUE REQUIRED, DUE TO MILL TOLERANCE IT IS ALLOWED TO BE LARGER.
4. SHIM AS APPLICABLE TO MEET DIMENSION 'M' CRITERIA, UP TO 1/4 INCH THICKNESS OF SHIMMING. OTHERWISE CONTACT SIDEPLATE SYSTEMS, INC.
5. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN, TYPICAL.
6. SLOTTED HOLE SIZE AS FOLLOWS: 1" DIAMETER BOLT = 1 1/8"X1 5/16" SLOT, 1 1/8" DIAMETER BOLT = 1 1/4"X1 1/2" SLOT, 1 1/4" BOLT = 1 3/8"X1 5/8" SLOT.



ISOMETRIC



SIDE ELEVATION

1 C TYPE ALL BOLTED NARROW CONNECTION
N.T.S.

PRELIMINARY DRAWINGS
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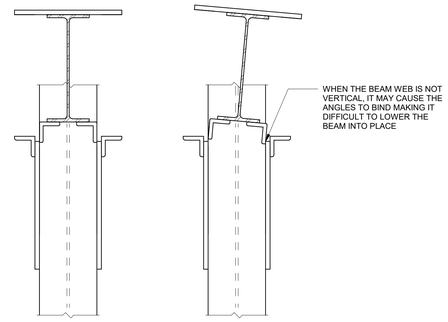
SIDEPLATE® POWERED BY MiTek

SidePlate Systems, Inc.
25909 Pala, Suite 200
Mission Viejo, CA 92691

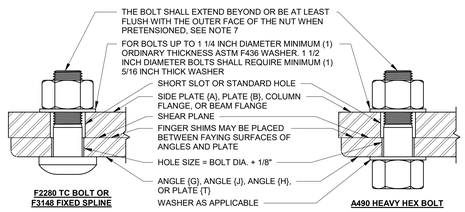
DATE
05.07.2024

SHEET TITLE
SIDEPLATE ALL BOLTED COLUMN DETAILS, C TYPE NARROW

SP108



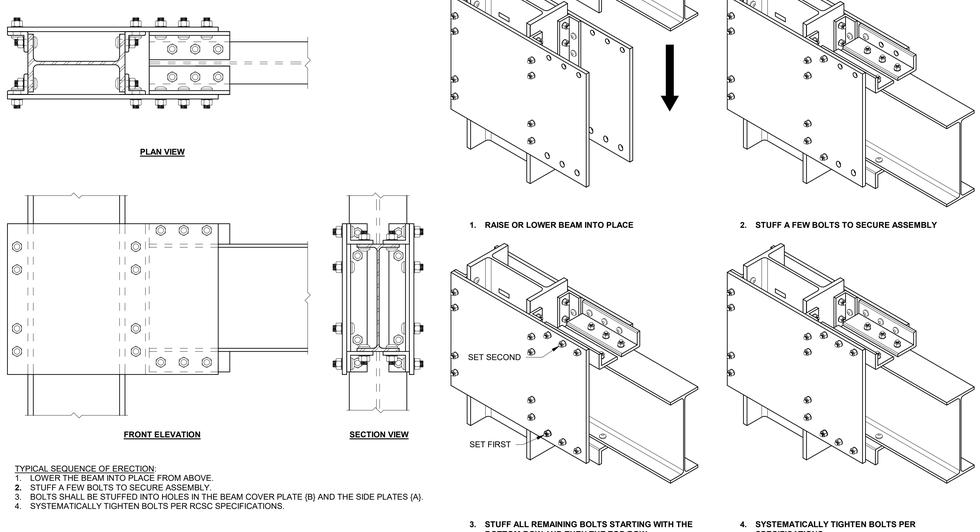
4 BEAM INSTALLATION DETAIL
N.T.S.



3 BEAM ERECTION SCHEDULE
N.T.S.

NOTE(S):
1. BOLTS SHALL BE INSTALLED AS SHOWN TO KEEP THREADS OUTSIDE OF SHEAR PLANE.
2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.
3. USE FINGER SHIMS FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS, INC. IF GAPS ARE GREATER THAN 1/4 INCH.
4. NUT SHALL BE ASTM A563.
5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.
7. STEEL DETAILER TO COORDINATE BOLT LENGTHS WITH REQUIRED WASHERS AND POTENTIAL SHIMMING THICKNESS WITH STEEL FABRICATOR.
8. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
9. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF THE HOLE TO THE EDGE OF THE CONNECTED PART IS PERMITTED TO BE LESS THAN THE MINIMUM EDGE DISTANCE PRESCRIBED BY AISC TABLE J3.4 FOR EACH BOLT DIAMETER, BUT SHALL NOT BE LESS THAN ONE BOLT DIAMETER.
10. BOLT ORIENTATION IS PERMITTED TO BE FLIPPED IF THE FOLLOWING CONDITIONS ARE MET: A. IF A HEAVY HEX BOLT IS USED, AN ADDITIONAL WASHER ON THE SLOTTED HOLE SIDE IS REQUIRED. VERIFY THREAD ARE EXCLUDED FROM THE SHEAR PLANE. B. IF A TC BOLT IS USED, NO ADDITIONAL WASHER IS REQUIRED. VERIFY THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
11. WHEN USING DIRECT TENSION INDICATORS (DTI) FOR PRETENSIONING. VERIFY IF ADDITIONAL WASHER IS REQUIRED TO ENSURE DTIs CAN WORK EFFECTIVELY WHEN PRETENSIONED.

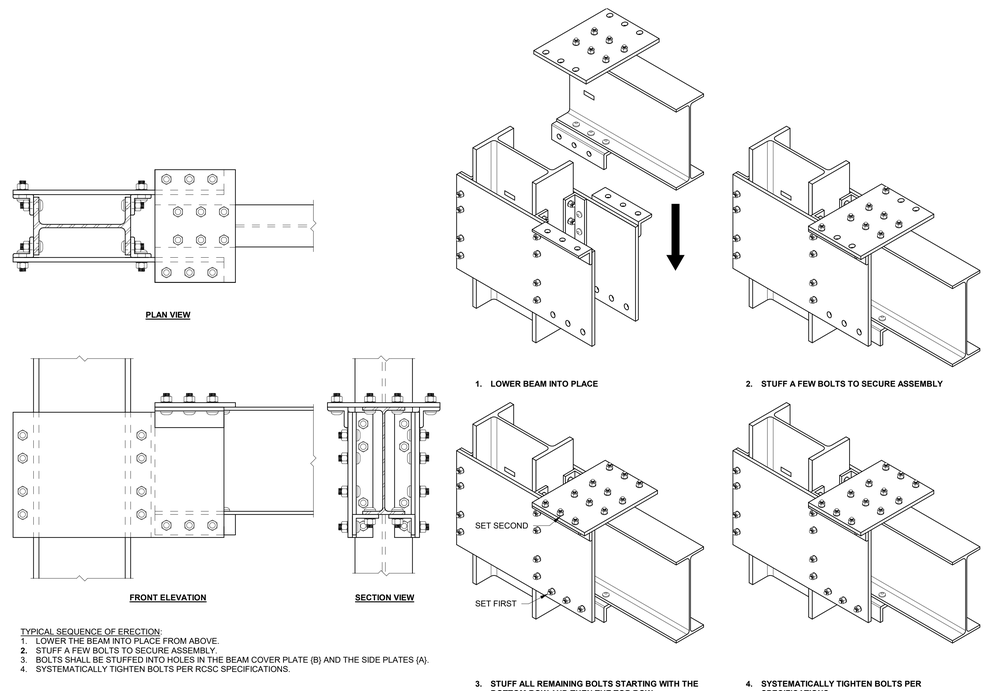
6 NARROW BEAM ERECTION SCHEDULE
N.T.S.



TYPICAL SEQUENCE OF ERECTION:
1. LOWER THE BEAM INTO PLACE FROM ABOVE.
2. STUFF A FEW BOLTS TO SECURE ASSEMBLY.
3. BOLTS SHALL BE STUFFED INTO HOLES IN THE BEAM COVER PLATE (B) AND THE SIDE PLATES (A).
4. SYSTEMATICALLY TIGHTEN BOLTS PER RCSC SPECIFICATIONS.

5 NARROW BEAM ERECTION DETAIL
N.T.S.

2 FIELD BOLTING DETAIL
N.T.S.



TYPICAL SEQUENCE OF ERECTION:
1. LOWER THE BEAM INTO PLACE FROM ABOVE.
2. STUFF A FEW BOLTS TO SECURE ASSEMBLY.
3. BOLTS SHALL BE STUFFED INTO HOLES IN THE BEAM COVER PLATE (B) AND THE SIDE PLATES (A).
4. SYSTEMATICALLY TIGHTEN BOLTS PER RCSC SPECIFICATIONS.

1 STANDARD BEAM ERECTION DETAIL
N.T.S.

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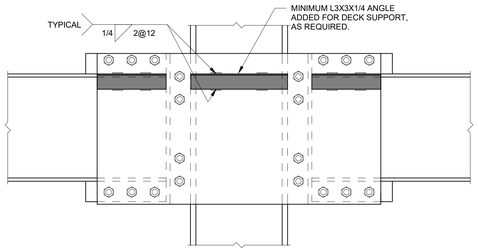
25909 Pala, Suite 200
Mission Viejo, CA 92691

DATE
05.07.2024

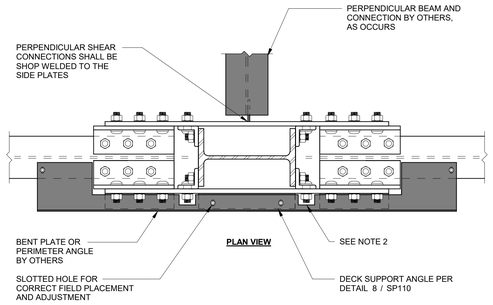
SHEET TITLE
SIDEPLATE FIELD ERECTION DETAILS

SP109



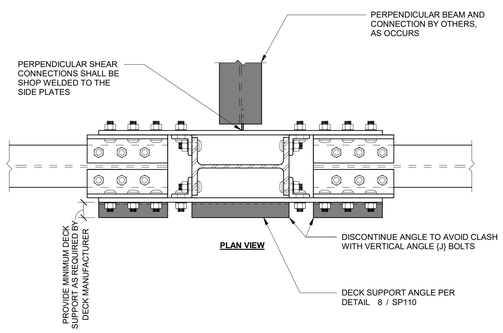
NOTE(S):
1. THE STEEL DETAILER SHOULD CONFIRM AND COORDINATE WITH THE GENERAL CONTRACTOR AND/OR STEEL FABRICATOR WHICH PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA TO USE FOR THE DECK SUPPORT.

8 (OPTIONAL) DECK SUPPORT ANGLE DETAIL
N.T.S.



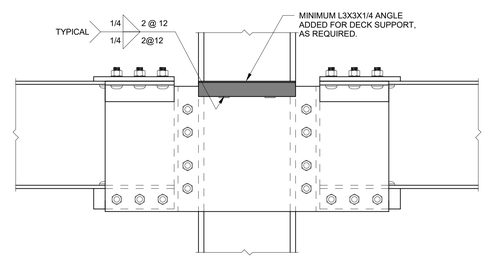
NOTE(S):
1. THE STEEL DETAILER SHOULD CONFIRM AND COORDINATE WITH THE GENERAL CONTRACTOR AND/OR STEEL FABRICATOR WHICH PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA TO USE FOR THE DECK SUPPORT.
2. IT MAY BE NECESSARY TO TRIM OR COPE THE BENT PLATE TO ACCOMMODATE THE NUT AND WASHER THAT CONNECT THE SIDE PLATES TO ANGLE (J).

7 (OPTIONAL) NARROW CONFIGURATION SLAB EDGE DETAIL
N.T.S.



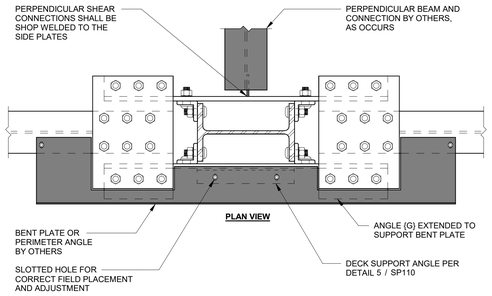
NOTE(S):
1. THE STEEL DETAILER SHOULD CONFIRM AND COORDINATE WITH THE GENERAL CONTRACTOR AND/OR STEEL FABRICATOR WHICH PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA TO USE FOR THE DECK SUPPORT.

6 (OPTIONAL) NARROW CONFIGURATION DECK SUPPORT DETAIL
N.T.S.



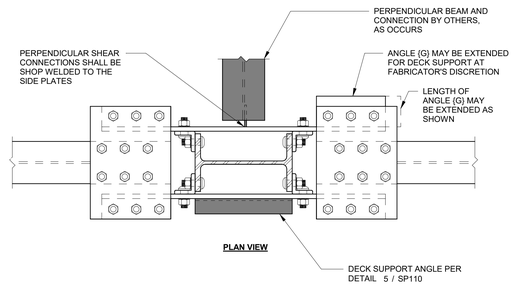
NOTE(S):
1. THE STEEL DETAILER SHOULD CONFIRM AND COORDINATE WITH THE GENERAL CONTRACTOR AND/OR STEEL FABRICATOR WHICH PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA TO USE FOR THE DECK SUPPORT.

5 (OPTIONAL) DECK SUPPORT ANGLE DETAIL
N.T.S.



NOTE(S):
1. THE STEEL DETAILER SHOULD CONFIRM AND COORDINATE WITH THE GENERAL CONTRACTOR AND/OR STEEL FABRICATOR WHICH PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA TO USE FOR THE DECK SUPPORT.

4 (OPTIONAL) SLAB EDGE DETAIL
N.T.S.



NOTE(S):
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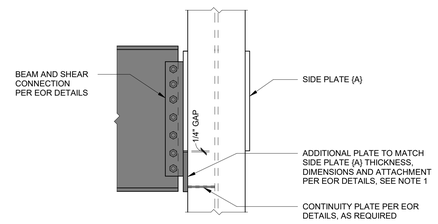
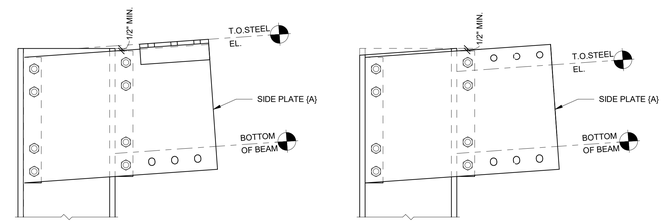
3 (OPTIONAL) DECK SUPPORT DETAIL
N.T.S.



NOTE(S):
1. PLATE SHALL BE A572 GRADE 50. NO WELD TIE-IN ACROSS 1/4 INCH GAP.

2 DEEP SHEAR CONNECTION TO SIDEPLATE CONNECTION (AS APPLICABLE)
N.T.S.



NOTE(S):
1. SLOPED CONDITION SHOWN, CONNECTION MAY BE FLAT.
2. TOP OF COLUMN MAY BE CUT ORTHOGONALLY. VERIFY WITH SEOR AND ARCHITECTURE DRAWINGS. COLUMN SHALL NOT PROTRUDE ABOVE ROOF OR FOUL OTHER DISCIPLINES.

1 DISCONTINUOUS COLUMN DETAIL
N.T.S.

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DATE
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SHEET TITLE
SIDEPLATE COORDINATION ITEMS

SP110