SUBMITTAL DATE: ##/##/#### PROJECT NAME: LOCATION: **CONNECTION TYPE:** SIDEPLATE

NUMBER OF BUILDINGS: APPROX. TOTAL GROSS SQUARE FOOTAGE:

NUMBER OF STORIES:

a. THERE MAY BE eDATA AVAILABLE FOR YOUR PROJECT WHICH IS AVAILABLE FOR DOWNLOAD AT WWW.SIDEPLATE.COM. eDATA MAY

 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

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

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**

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.

1. THE GOVERNING CODES SHALL CONSIST OF ANSI/AWS D1.1, AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGE, 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

2. ALPHA AND NUMERIC DESIGNATORS {X} & {#} USED HEREIN TO SIMPLIFY THE IDENTIFICATION OF PLATES, ANGLES, AND WELDS ARE DEFINED

SIDE PLATE FOR UNIAXIAL CONNECTIONS

BEAM FLANGE COVER PLATE, AS REQUIRED

VERTICAL SHEAR PLATE OR FLAT BAR WELDED TO BEAM WEB, AS REQUIRED

HORIZONTAL SHEAR PLATE OR FLAT BAR WELDED TO COLUMN WEB, AS REQUIRED

VERTICAL ANGLE WELDED TO THE VERTICAL SHEAR PLATE {C}, AS REQUIRED

VERTICAL SHEAR ELEMENT (VSE) WHICH CONSISTS OF PLATE {C} AND ANGLE {E} MATERIAL, AS REQUIRED

LONGITUDINAL ANGLE WELDED TO THE OUTSIDE FACE OF SIDE PLATE {A}, AS REQUIRED

LONGITUDINAL ANGLE WELDED TO THE BOTTOM BEAM FLANGE (OR TOP BEAM FLANGE AS REQUIRED)

HORIZONTAL PLATE WELDED TO THE OUTSIDE FACE OF SIDE PLATE {A}, AS REQUIRED FILLET WELD CONNECTING SIDE PLATE {A} TO HORIZONTAL SHEAR PLATE {D} OR COLUMN

FILLET (AND/OR FLARE BEVEL) WELD CONNECTING INSIDE FACE OF SIDE PLATE {A} TO COLUMN

FILLET WELD CONNECTING HORIZONTAL SHEAR PLATE {D} TO COLUMN, AS REQUIRED

FILLET WELD TO CONSTRUCT VSE {F} AND TO CONNECT IT TO THE WEB OF THE BEAM, AS REQUIRED

FILLET (AND/OR PJP) WELD CONNECTING BEAM FLANGE TIPS TO COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}, AS REQUIRED

{5a} FILLET WELD CONNECTING OUTSIDE FACE OF BEAM FLANGE TO COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}, AS REQUIRED {5b} FILLET WELD CONNECTING COVER PLATE {B} EDGE TO TOP FACE OF BEAM FLANGE, ACROSS ITS WIDTH

({5p}) PJP WELD CONNECTING ANGLE {H} TO BEVELED BEAM FLANGE

{8} FILLET (AND/OR PJP) WELD CONNECTING LONGITUDINAL ANGLE {G} (AND/OR PLATE {T}) TO SIDE PLATE {A}, AS REQUIRED

({8p}) PJP WELD CONNECTING PLATE {T} TO SIDE PLATE {A} AND/OR CONNECTING BUILT UP ANGLE {H} PLATES TOGETHER, AS REQUIRED

FILLET WELD CONNECTING SIDE PLATE {A} TO COLUMN FACE, WRAPPED AROUND THREE SIDES OF SIDE PLATE {A}

{10} FILLET WELD TO CONSTRUCT SIDE PLATE SLOTTED INTERLOCK ASSEMBLY

{10p} PJP WELD TO CONSTRUCT SIDE PLATE SLOTTED INTERLOCK ASSEMBLY

{10r} REINFORCING FILLET WELD TO CONSTRUCT SIDE PLATE SLOTTED INTERLOCK ASSEMBLY

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)

EXTENSION OF SIDE PLATE {A} FROM THE FACE OF THE COLUMN

DEPTH OF SIDE PLATE {A}

LENGTH OF COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}

EDGE DISTANCE OF BOLT HOLES IN COVER PLATE {B}, AS REQUIRED

DISTANCE FROM END OF SIDE PLATE {A} TO A CJP WELDED SPLICE IN THE FLANGES AND WEB OF THE MOMENT FRAME BEAM, AS

GAGE DISTANCE TO CENTERLINE OF BOLT HOLES IN ANGLES (G) AND (H), AND PLATE (T), AS REQUIRED

ADDED DIMENSION TO COLUMN FLANGE WIDTH TO DEFINE TOTAL COVER PLATE {B} WIDTH DISTANCE FROM END OF THE BEAM TO CENTERLINE OF VERTICAL BOLT HOLES IN VSE {F}, AS REQUIRED

RADIUS OF SLOT DIMENSION IN COVER PLATE {B}

HORIZONTAL SPACING BETWEEN BOLT HOLES

ADDED DIMENSION TO COLUMN FLANGE WIDTH FOR ALLOWABLE SPREAD OF SIDE PLATES (A)

# 1. PLATE, FLAT BAR, AND ANGLE MATERIAL

a. ALL PLATE MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH (F<sub>y</sub>) OF 50 KSI. b. ANGLE AND BAR MATERIAL SHALL HAVE A HIGH STRENGTH STEEL SPECIFICATION AND SHALL HAVE A MINIMUM YIELD STRENGTH (F<sub>y</sub>) OF 50

a. BOLTS SHALL BE TYPE 1 OR TYPE 3 AND 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, b. FOR BOLTS UP TO 1 1/4 INCH DIAMETER WASHERS SHALL BE ORDINARY THICKNESS AND ASTM F436 TYPE 1 OR TYPE 3. 1 1/2 INCH DIAMETER

BOLTS SHALL REQUIRE 5/16 INCH THICK WASHER. 2. 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

e. THE MILL TEST REPORT (MTR) MUST HAVE DOCUMENTED LOT TRACEABILITY, STATEMENT OF DIMENSIONAL RESULTS, FULL CHEMICAL AND

. THE USE OF FINGER SHIMS ARE ACCEPTABLE PER BOLTING SECTION 8. a. ALL ROLLED SHAPES USED FOR COLUMNS AND BEAMS IN CONSTRUCTING SIDEPLATE MOMENT FRAMES SHALL BE ASTM A992 GRADE 50

a. ALL HSS SHAPES USED FOR COLUMNS AND BEAMS 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 DISTORTION CONTROL PROGRAM PRIOR TO THE START OF SIDEPLATE MOMENT FRAME FABRICATION. THE DISTORTION CONTROL PROGRAM SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AWS D1.1 TO ENSURE THAT THE FOLLOWING ARE MAINTAINED: DIMENSIONAL ACCURACY

 FRAMING AND ALIGNMENT TOLERANCES COMPLIANCE WITH AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, SECTION 7.0, ERECTION PROVISIONS CONTROL OF DISTORTION AND WELD SHRINKAGE

MAKE SURE THE REQUIRED TURN IS ACHIEVED.

MECHANICAL TEST RESULTS TO THE SPECIFICATIONS ABOVE.

CALIBRATED WRENCH (A490), TWIST-OFF-TYPE TENSION-CONTROL BOLT (F2280), TORQUE AND ANGLE METHOD (F3148), OR WHEN HEAVY HEX

BOLTS ARE REQUIRED DIRECT TENSION INDICATORS (DTI) (ASTM F959). FOR TURN-OF-NUT THE THREAD AND NUT SHOULD BOTH BE MARKED TO

### 1. WELDER QUALIFICATION: THE PERFORMANCE OF ALL WELDERS, WELDING OPERATORS AND TACK WELDERS SHALL BE QUALIFIED IN CONFORMANCE WITH AWS D1.1 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),

7. THE BOLT SHANK SHALL NOT EXTEND BEYOND THE CONNECTED PLIES. USE WASHER/SPACER IF NECESSARY TO PREVENT SHANK OUT 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.

 $6.\;\;$  FASTENER COMPONENTS SHALL BE PROTECTED FROM DIRT AND MOISTURE IN CLOSED CONTAINERS AT THE SITE OF INSTALLATION.

2. FOR ALL PRETENSIONING METHODOLOGIES, ALL FASTENER ASSEMBLIES WITHIN THE JOINT SHALL FIRST BE BROUGHT TO A SNUG TIGHT

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

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

3. REUSE OF A490, F2280, AND F3148 BOLT ASSEMBLIES SHALL NOT BE ALLOWED. TOUCHING UP OR RE-TIGHTENING BOLTS THAT MAY HAVE BEEN

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

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 DISTORTION CONTROL PROGRAM TO ACCOUNT FOR AND COUNTERACT THE EFFECTS OF WELD SHRINKAGE, 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. <u>COLUMN TREE ASSEMBLY</u> VERIFICATION THAT ACTUAL COLUMN FLANGE WIDTH IS AT LEAST NOMINAL COLUMN FLANGE WIDTH WHERE THE SIDE PLATES (A) ARE TO BE INSTALLED. IN THE UNLIKELY EVENT ACTUAL COLUMN FLANGE WIDTH IS LESS THAN NOMINAL, BUT WITHIN AISC STANDARD MILL TOLERANCES (-3/16 INCH MAX), CONTACT SIDEPLATE SYSTEMS, INC FOR APPROPRIATE RECOMMENDATIONS. 2. MINIMUM CLEAR DIMENSION SHALL BE VERIFIED AFTER PLACEMENT OF WELD {2}, COOLING OF WELD {2}, AND REMOVAL OF TEMPORARY SHOP CONSTRUCTION AID(S). VERIFY THAT A MINIMUM ACTUAL COLUMN FLANGE WIDTH DIMENSION 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 THE ACTUAL COLUMN FLANGE WIDTH.

3. MAXIMUM SPREAD DIMENSION OF SIDE PLATE {A} SHALL NOT EXCEED ACTUAL COLUMN FLANGE WIDTH PLUS THE SCHEDULED SPREAD DIMENSION Y. THE FIELD CONSTRUCTION AID SHALL 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. 4. VERIFICATION OF BOLT HOLE ELEVATION AND SPACING FOR POSITION OF SIDE PLATE (A) AND PROPER POSITION AND ELEVATION OF ANGLES (G).

BEAM ASSEMBL 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

VERIFICATION OF BOLT HOLE SPACING AND POSITION ON COVER PLATE (B) AND ANGLES (H). CONSIDERATION SHALL BE GIVEN TO THE CUPPING EFFECT OF THE TOP COVER PLATE {B}, DUE TO WELD SHRINKAGE. 3. VERIFICATION OF THE DISTANCE BETWEEN EXTERIOR ANGLE (H) FACES AND THEIR RESPECTIVE BOLT HOLE PLACEMENT TO EACH OTHER (VERTICALLY AND HORIZONTALLY).

4. VERIFICATION THAT IN NO CASE SHALL THE OUTSIDE FACE OF VSE {F} EXTEND BEYOND THE OUTSIDE FACES OF THE LONGITUDINAL 5. 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.

a. THE ROUGHNESS OF ALL THERMAL-CUT SURFACES SHALL BE NO GREATER THAN AN ANSI SURFACE ROUGHNESS VALUE OF 1000 MICRO-INCHES. ROUGHNESS EXCEEDING THIS VALUE AND NOTCHES OR GOUGES NOT MORE THAN 3/16 INCH DEEP SHALL BE REMOVED BY MACHINING OR GRINDING. NOTCHES OR GOUGES IN THE THERMALLY CUT EDGES DEEPER THAN 3/16 INCH SHALL BE REPAIRED PER AWS. 4. 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.

ARE IN AS FIRM CONTACT AS POSSIBLE.

IN ADDITION TO ALL OTHER QUALITY ASSURANCE INSPECTION ACTIVITIES, THE OWNER'S VERIFICATION INSPECTOR SHALL BE RESPONSIBLE FOR: a. TO ASSURE THE PROPER AMPERAGE AND VOLTAGE OF THE WELDING PROCESS, THE USE OF HAND HELD CALIBRATED AMP AND VOLT METERS SHALL BE USED. THIS EQUIPMENT SHALL BE USED BY THE FABRICATOR AND THE INSPECTOR. AMPERAGE AND VOLTAGE SHALL BE MEASURED NEAR THE ARC. TRAVEL SPEED AND ELECTRODE STICK OUT SHALL BE VERIFIED TO BE IN COMPLIANCE WITH THE APPROVED

b. VISUAL INSPECTION SHALL BE PERFORMED ON ALL SHOP WELDS. c. EACH WELDER EMPLOYED ON THE PROJECT SHALL UNDERSTAND ALL THE REQUIREMENTS OF THE WELDING PROCEDURE

SPECIFICATION(S) BEFORE WELDING ON THE PROJECT. d. AS-BUILT BEAM TO COLUMN GAP PER CONNECTION SCHEDULE IS ALLOWED TO BE INSTALLED WITH A TOLERANCE OF PLUS OR MINUS 1/2

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. 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

a. AS APPLICABLE, HORIZONTAL SHEAR PLATES {D} 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. SEAL WELDING SHALL BE ALLOWED ON THE PLATES (B) AND ANGLES. 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® 556 AND GEOMET® 321, OR DACROMET®. 3. STANDARD ASTM A490 BOLTS WITH ADDITIONAL PROCESS FOR COATINGS SHALL REQUIRE EVIDENCE OF COMPLIANCE (CERTIFICATION, LETTER,

# 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.

. 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.

OR SIMILAR) FROM THE APPLICATOR.

 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 AWS D1.1, 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 DISTORTION DUE TO WELD SHRINKAGE, AND FOR CONTROLLING COMBINED MILL, FABRICATION AND ERECTION TOLERANCES) c. CONSTRUCTION AIDS SUCH AS ERECTION RIGGING AND SHORING

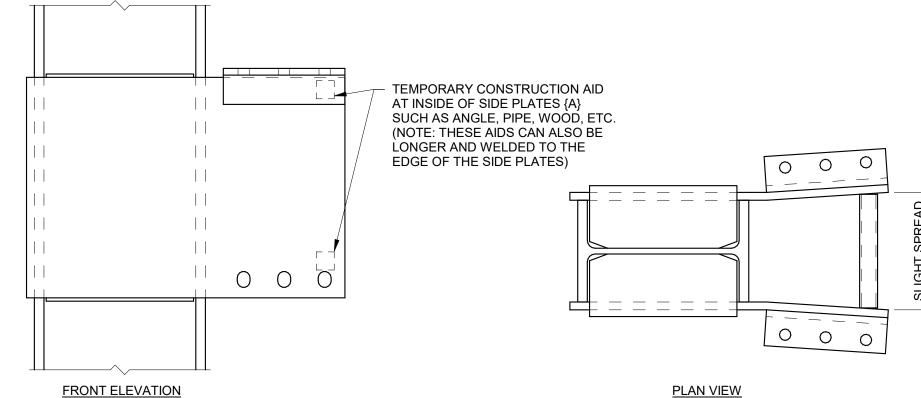
d. PROPER BOLT HOLE ALIGNMENT e. PROPER PRETENSIONING OF BOLTS 2. THE SEQUENCE OF CONSTRUCTION OPTIONS PROVIDED BELOW IN THESE CONSTRUCTION GUIDELINES HAVE PROVEN TO BE SUCCESSFUL BY STEEL FABRICATORS AND ERECTORS TO COST EFFICIENTLY CONSTRUCT THE BOLTED SIDEPLATE CONNECTION SYSTEM. VARIATIONS TO THESE

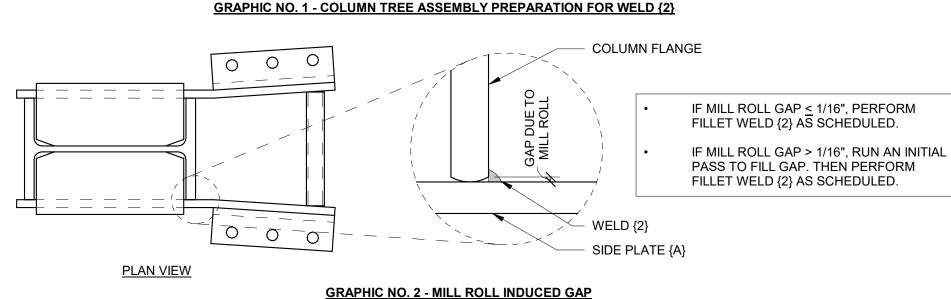
CONSTRUCTION SEQUENCE OPTIONS PROVIDED BELOW SHALL BE SUBMITTED FOR REVIEW AND DISPOSITION TO SIDEPLATE SYSTEMS, INC. 3. A PRE-FABRICATION COORDINATION MEETING WITH A SIDEPLATE SYSTEMS, INC. REPRESENTATIVE IS REQUIRED FOR ALL PROJECTS. THE PRE-

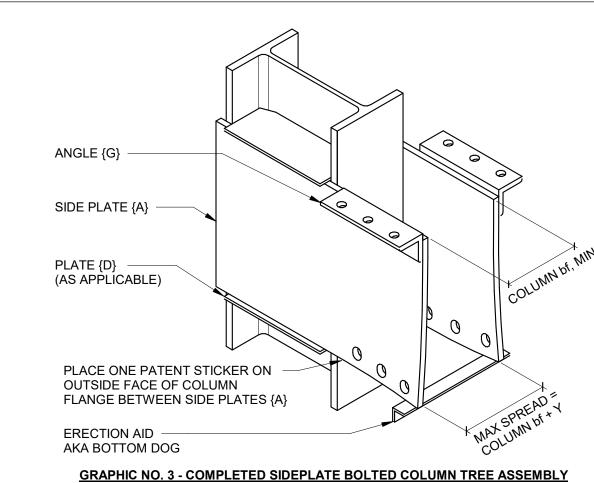
## SHOP FABRICATION OF THE SIDEPLATE BOLTED SYSTEM

# https://portal.sideplate.com/account/login

FABRICATION COORDINATION MEETING IS INTENDED TO SHARE BEST PRACTICES AND COMMON MISTAKES TO AVOID.

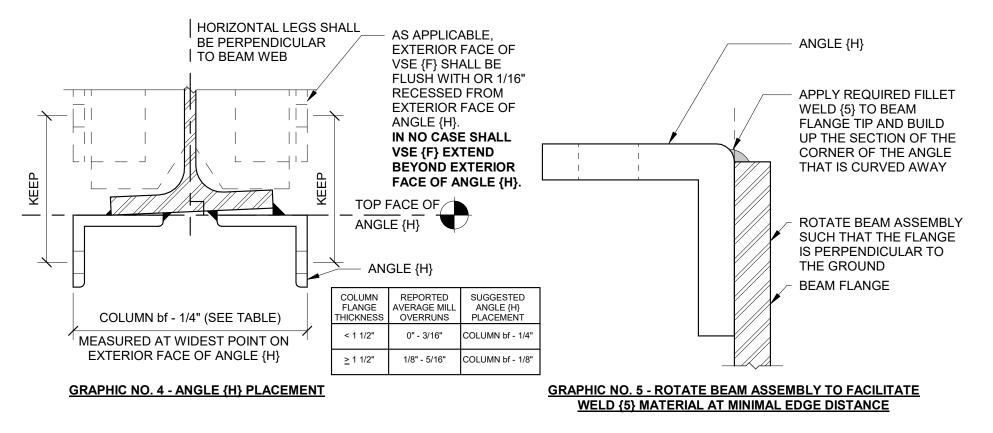






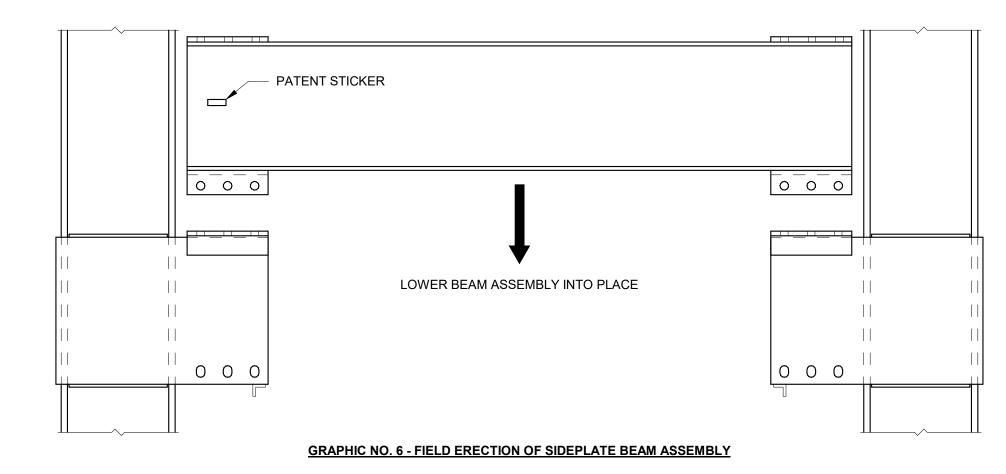
2. WATCH OUR SIDEPLATE BEAM ASSEMBLY VIDEO AT

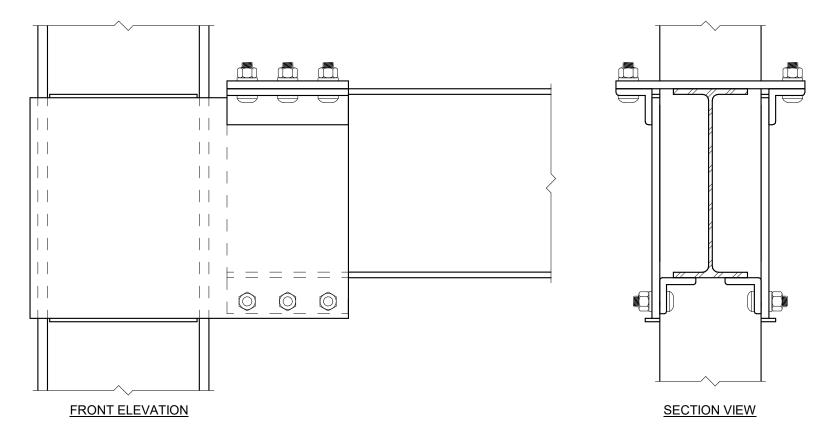
# https://portal.sideplate.com/account/login

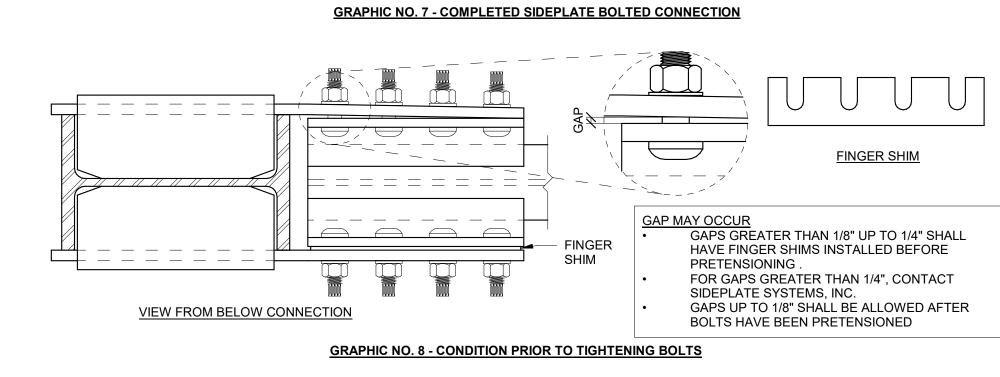


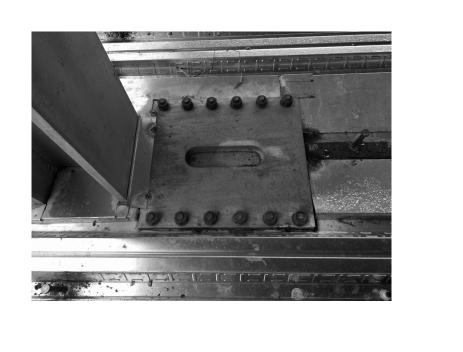
FIELD ERECTION OF SIDEPLATE BOLTED SYSTEM 3. WATCH OUR SIDEPLATE FIELD ERECTION VIDEO AT

# https://portal.sideplate.com/account/login





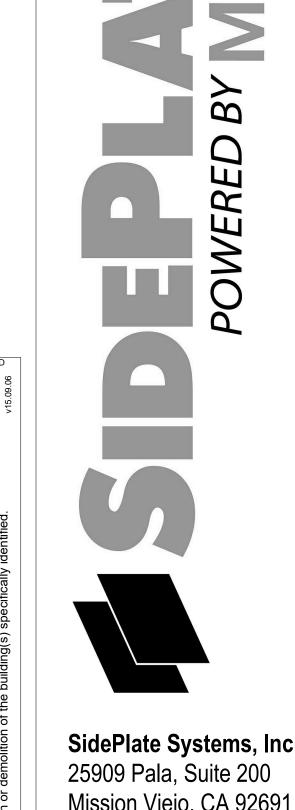




GRAPHIC NO. 9 - TYPICAL GAP CLOSURE AT THE TOP OF THE GAP



**GRAPHIC NO. 10 - FIREPROOFING ACROSS THE BOTTOM OF THE GAP** 



Mission Viejo, CA 92691 05.07.2024 SHEET TITLE SIDEPLATE GENERAL

> **NOTES AND** CONSTRUCTION **GUIDELINES SP100**

- 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. THE 1/2 INCH OVERHANG ON THE SIDE PLATE {A} IS TO ENSURE SUFFICIENT ROOM FOR WELD {2}, 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.

  3. DIMENSION A = GAP+(HORIZONTAL BOLTS)\*(S)

  4. 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.

- HOLE SIZE = BOLT DIA. + 1/8" AT ANGLE {G}, TYPICAL

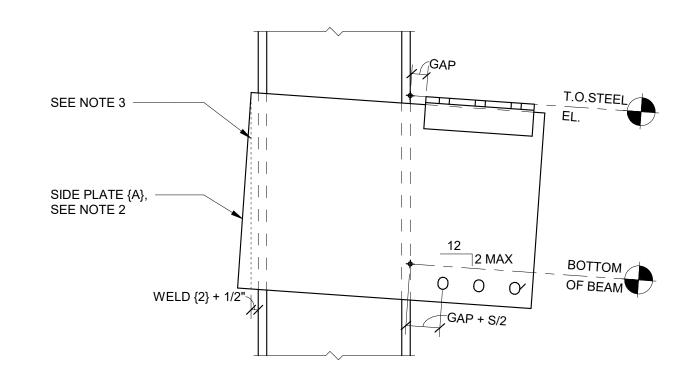
SIDE PLATE {A} TO COLUMN FLANGE, (4) LOCATIONS

ANGLE {G}, (2) LOCATIONS **PLAN VIEW** ANGLE {G} TO SIDE PLATE {A}, (2) LOCATIONS WELD {2} + 1/2" (+/-) SEE NOTE 2 COORDINATE ANGLE {G}
 ORIENTATION WITH DECK
 SUPPORT AS NEEDED SIDE PLATE {A}, (2) LOCATIONS HORIZ. BOLTS S/2 SIDE PLATE {A},
TYPICAL, SEE NOTE 4 PLACE ONE PATENT STICKER ON THE OUTSIDE FACE OF COLUMN FLANGE **FRONT ELEVATION SIDE ELEVATION** 

2 A TYPE COLUMN CONNECTION SCHEDULE N.T.S.

NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. AT CONTRACTOR'S DISCRETION, SIDE PLATE {A} MAY BE CUT AS SHOWN.

**FRONT ELEVATION** 



NOTE(S):

1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.

3. AT CONTRACTOR'S DISCRETION, SIDE PLATE {A} MAY BE CUT AS SHOWN.

WELD {2} + 1/2" SEE NOTE 3 -SIDE PLATE {A} -GAP + S/2

**FRONT ELEVATION** 

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Other U.S. and foreign applications pending.

**SP101** 

05.07.2024

SIDEPLATE COLUMN **DETAILS, A TYPE** 

SHEET TITLE

SidePlate Systems, Inc. 25909 Pala, Suite 200

Mission Viejo, CA 92691

- HOLE SIZE = BOLT DIA. + 1/8" AT ANGLE {G}, TYPICAL SIDE PLATE {A} TO COLUMN FLANGE, (4) LOCATIONS 0 0 0 - ANGLE {G}, (4) LOCATIONS **PLAN VIEW** SEE NOTE 2 SEE NOTE 2 ANGLE {G} TO SIDE PLATE {A}, (4) LOCATIONS SIDE PLATE {A}, (2) LOCATIONS S/2 HORIZ. ROWS ↑ SLOTTED HOLE AT SIDE PLATE {A}, TYPICAL, SEE NOTE 3 GAP + S/2-

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

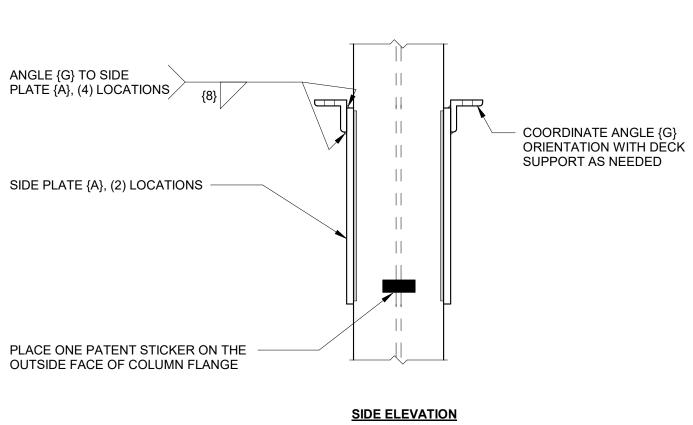
**FRONT ELEVATION** 

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+(HORIZONTAL BOLTS)\*(S)

3. 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.



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

DATE 05.07.2024

SHEET TITLE

SIDEPLATE COLUMN DETAILS, B TYPE

**SP102** 

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

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B TYPE BOLTED CONNECTION 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 - / ---

- COORDINATE ANGLE {G} ORIENTATION WITH

DECK SUPPORT AS

NEEDED

SIDE ELEVATION

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

DATE

05.07.2024 SHEET TITLE

SIDEPLATE COLUMN **DETAILS, C TYPE** 

**SP103** 

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

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 - / ---

FRONT ELEVATION

6 SUBTLE STEP TOP DETAIL (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 - / ---

| | SEE NOTE 1

2 C TYPE COLUMN CONNECTION SCHEDULE N.T.S.

0 0 0

0 0 0

SEE NOTE 3

BOTTOM OF BEAM

1 C TYPE BOLTED CONNECTION N.T.S.

SHALLOW BEAM SIDE DEEP BEAM SIDE

SEE NOTE 2 ——

**FRONT ELEVATION** 

NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES 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.

12 \_\_\_\_2 MAX SEE NOTE 3 **FRONT ELEVATION** 

SIDE PLATE {A}

SEE NOTE 3 -

HOLE SIZE = BOLT DIA. + 1/8"AT ANGLE {G}, TYPICAL

- ANGLE {G}, (4) LOCATIONS

SIDE PLATE {A}, TYPICAL, SEE NOTE 4

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. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN, TYPICAL.

3. DIMENSION A = GAP+(HORIZONTAL BOLTS)\*(S)

4. 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.

SIDE PLATE {A} TO COLUMN FLANGE, (4) LOCATIONS

ANGLE {G} TO SIDE PLATE {A}, (4) LOCATIONS

SIDE PLATE {A}, (2) LOCATIONS

PLACE ONE PATENT STICKER ON THE OUTSIDE FACE OF COLUMN FLANGE

S/2 S/2

SEE NOTE 3

HORIZ. BOLTS

SIDE PLATE {A} **FRONT ELEVATION** NOTE(S):

1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE

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BY

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DATE 05.07.2024

SHEET TITLE

SIDEPLATE COLUMN **DETAILS, A TYPE** NARROW

**SP104** 

NOTE(S):

1. THE 1/2 INCH OVERHANG ON THE SIDE PLATE {A} IS TO ENSURE SUFFICIENT ROOM FOR WELD {2}, 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.

2. DIMENSION A = GAP+(HORIZONTAL BOLTS)\*(S)

3. 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 NARROW BOLTED CONNECTION N.T.S.

**PLAN VIEW** 

**FRONT ELEVATION** 

A SEE NOTE 2

GAP + S/2

HORIZ. BOLTS S/2

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0 0 0 GAP + S/2 **FRONT ELEVATION** 2 A TYPE NARROW COLUMN CONNECTION SCHEDULE N.T.S.

SEE NOTE 3 SIDE PLATE (A) -NOTE(S):

1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.

3. AT CONTRACTOR'S DISCRETION, SIDE PLATE {A} MAY BE CUT AS SHOWN.

WELD {2} + 1/2" GAP + S/2 SEE NOTE 3 -0 0 0 SIDE PLATE {A}, SEE NOTE 2 WELD {2} + 1/2 GAP + S/2 **FRONT ELEVATION** NOTE(S):

1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.

3. AT CONTRACTOR'S DISCRETION, SIDE PLATE {A} MAY BE CUT AS SHOWN.

SIDE PLATE {A} TO COLUMN FLANGE, (4) LOCATIONS,

- HOLE SIZE = BOLT DIA. + 1/8" AT SIDE PLATE {A}, TOP ROW

→ \$SLOTTED HOLE AT SIDE PLATE {A}, BOTTOM ROW, SEE NOTE 3

SIDE PLATE {A}, (2) LOCATIONS -

PLACE ONE PATENT STICKER ON THE OUTSIDE FACE OF COLUMN FLANGE

**SIDE ELEVATION** 

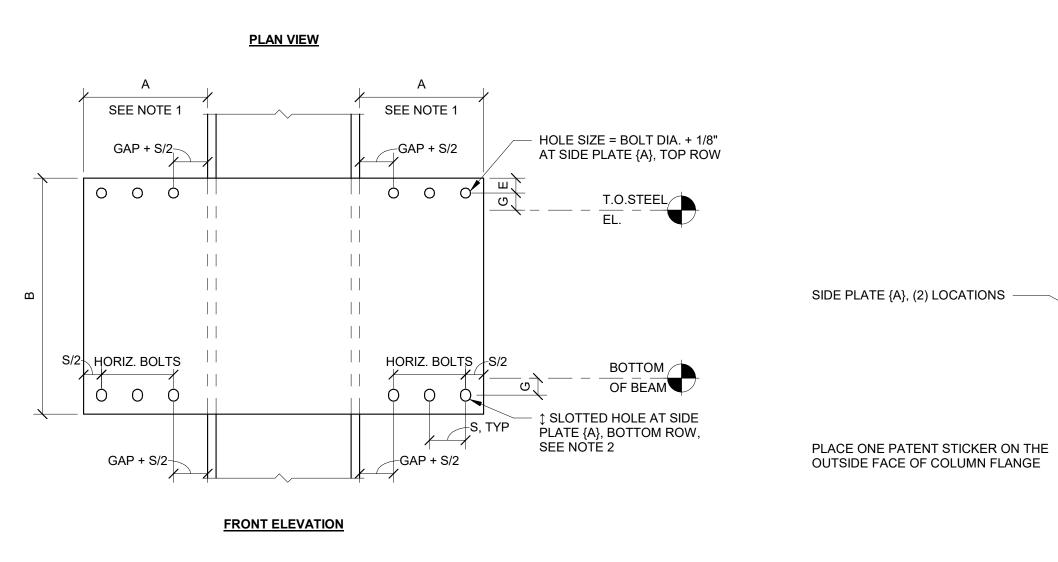
BOTTOM OF BEAM

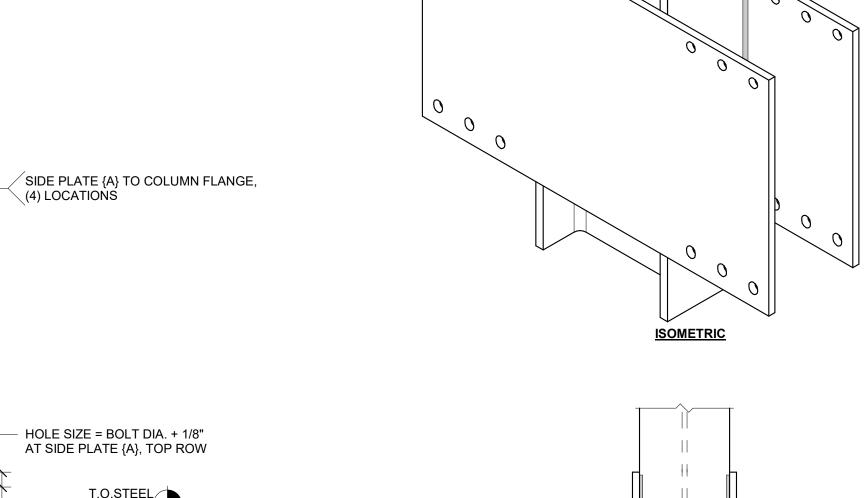
1 B TYPE NARROW BOLTED CONNECTION N.T.S.

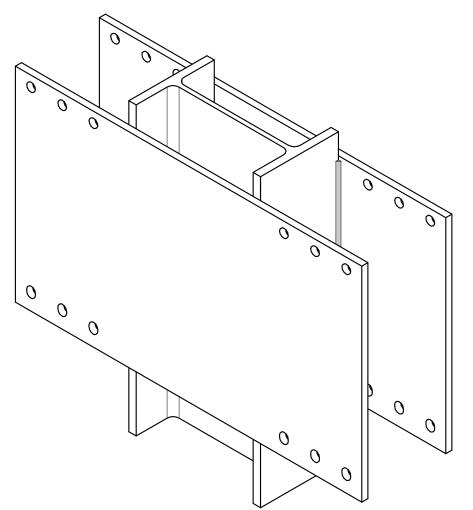
NOTE(S):

1. DIMENSION A = GAP+(HORIZONTAL BOLTS)\*(S)

2. SLOTTED HOLE SIZE AS FOLLOWS: 1" DIAMETER BOLT = 1 1/8"X1 5/16" HOLE, 1 1/8" DIAMETER BOLT = 1 1/4"X1 1/2" HOLE, 1 1/4" BOLT = 1 3/8"X1 5/8" HOLE.







SIDE ELEVATION

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

**FRONT ELEVATION** 

GAP + S/2

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.

NOTE(S):

1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

- SIDE PLATE {A}

SEE NOTE 3

NOTE(S):

1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
 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.

GAP + S/2 SIDE PLATE {A} SEE NOTE 3 -

FRONT ELEVATION

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SIDEPLATE COLUMN

DETAILS, B TYPE

DATE

05.07.2024

SHEET TITLE

NARROW

**SP105** 

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BOTTOM OF BEAM FRONT ELEVATION

6 SUBTLE STEP TOP DETAIL (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 - / ---

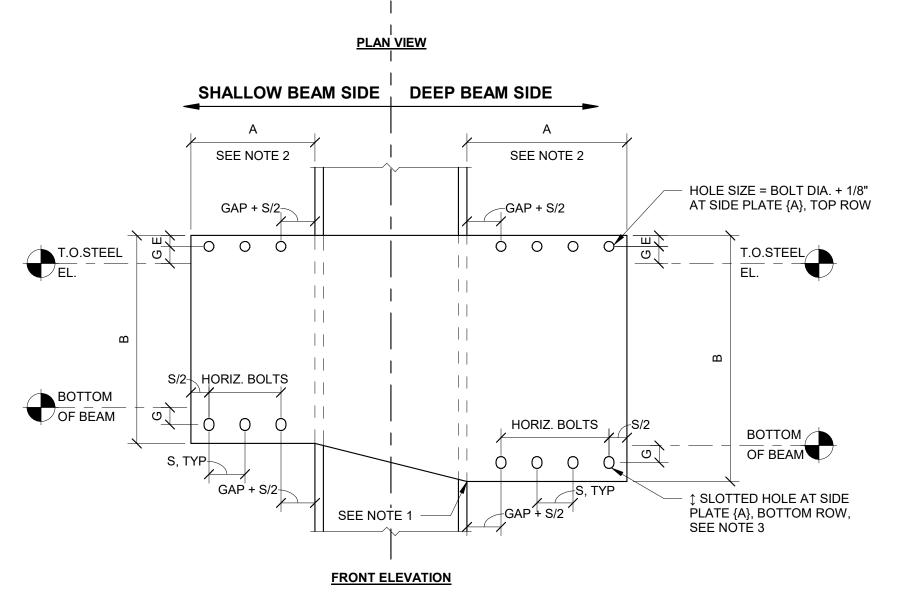
1 C TYPE NARROW BOLTED CONNECTION N.T.S.

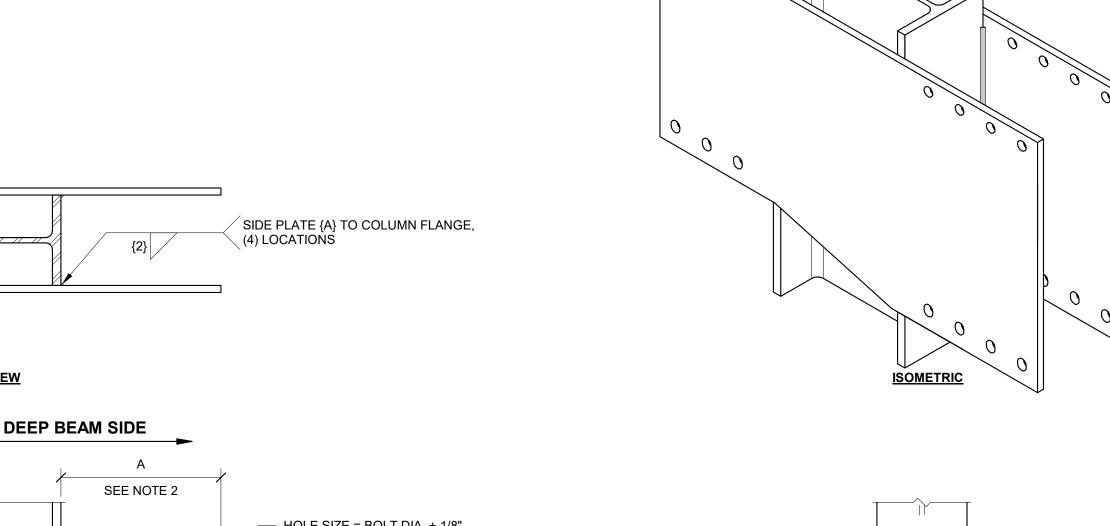
FRONT ELEVATION NOTE(S):

1. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN, TYPICAL.

2. DIMENSION A = GAP+(HORIZONTAL BOLTS)\*(S)

3. 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.





SIDE PLATE {A}, (2) LOCATIONS

PLACE ONE PATENT STICKER ON THE OUTSIDE FACE OF COLUMN FLANGE

SIDE ELEVATION

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

GAP + S/2 SEE NOTE 3 -FRONT ELEVATION NOTE(S):

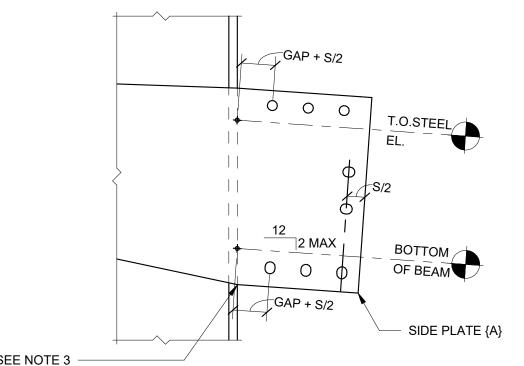
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PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

- SIDE PLATE {A}

SEE NOTE 3 **FRONT ELEVATION** NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES 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.



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

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SIDEPLATE COLUMN

**DETAILS, C TYPE** 

DATE

05.07.2024

SHEET TITLE

NARROW

**SP106** 

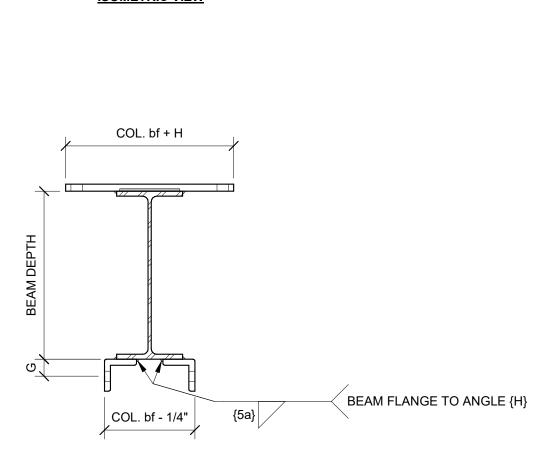
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**PLAN VIEW** PLATE {B} TO BEAM FLANGE, AS OCCURS 1/2 COL. DEPTH + GAP-BEAM FLANGE TO PLATE {B}, (2) LOCATIONS {5} PLACE ONE PATENT STICKER — AT ONE END OF BEAM BEAM FLANGE TO I ANGLE {H}, (2) LOCATIONS [5] ANGLE {H}, (2) LOCATIONS S/2 S, TYP HOLE SIZE = BOLT DIA. + 1/8" -AT ANGLE {H}, TYPICAL FRONT ELEVATION

HORIZ. BOLTS



SECTION VIEW

NOTE(S):
1. 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.

- COVER PLATE {B}

- AS APPLICABLE

— ANGLE (H)

12 MAX

**ELEVATION VIEW** 

NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

1 BEAM END DETAIL N.T.S.

ISOMETRIC VIEW

2 BEAM END SCHEDULE N.T.S.

\$\tau\$ SLOTTED HOLE AT PLATE {B},
 TYPICAL, SEE NOTE 1

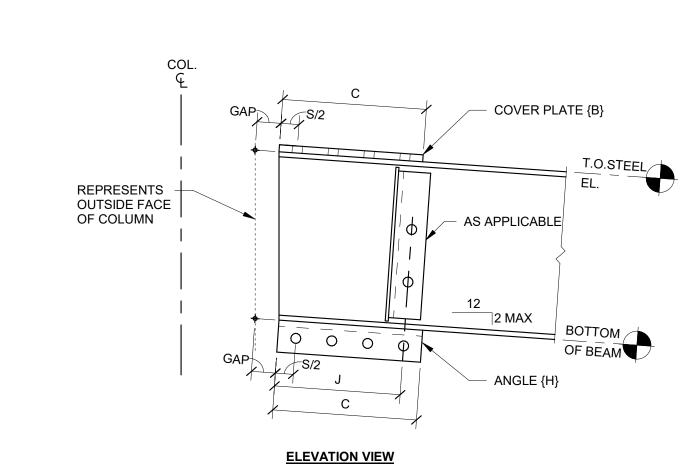
BEAM FLANGE TO PLATE (B) (5a)

PLATE {B}

REPRESENTS OUTSIDE FACE OF COLUMN

3 SLOPED UP BEAM END (AS APPLICABLE) N.T.S.

4 SLOPED DOWN BEAM END (AS APPLICABLE)
N.T.S.



 $\underline{\mathsf{NOTE}(S)}$ :

1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

**SP107** 

DATE

05.07.2024

SHEET TITLE

DETAILS

SIDEPLATE BEAM

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Mission Viejo, CA 92691

05.07.2024

SIDEPLATE BEAM

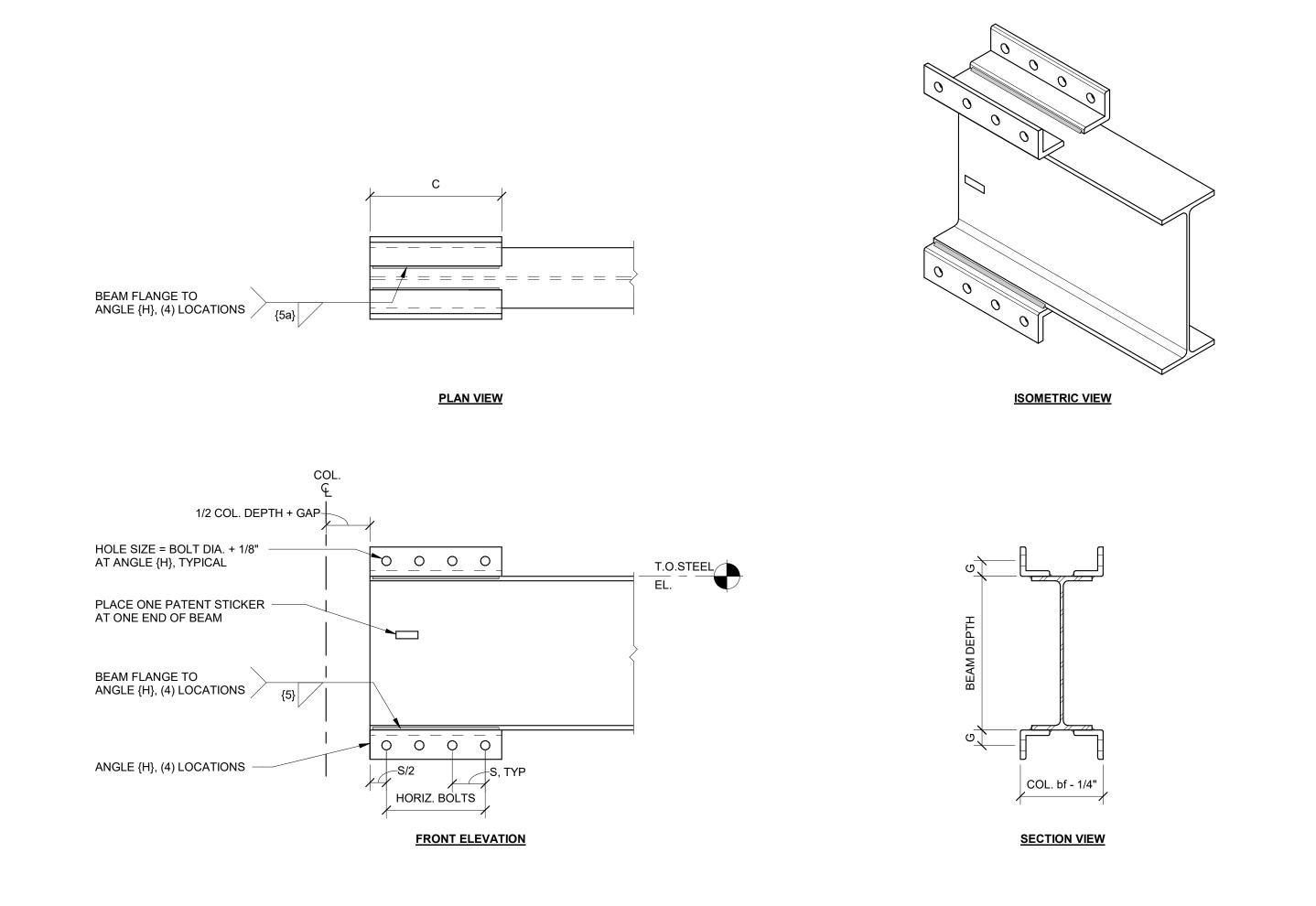
**DETAILS, NARROW** 

SHEET TITLE

DATE

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Mission Viejo, CA 92691



2 NARROW BEAM END SCHEDULE N.T.S.

4 SLOPED DOWN BEAM END (AS APPLICABLE)
N.T.S.

NOTE(S):

1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

**ELEVATION VIEW** 

- AS APPLICABLE

— ANGLE {H}

REPRESENTS OUTSIDE FACE OF COLUMN — AS APPLICABLE 0000 - ANGLE {H}

REPRESENTS OUTSIDE FACE OF COLUMN **ELEVATION VIEW** 

NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

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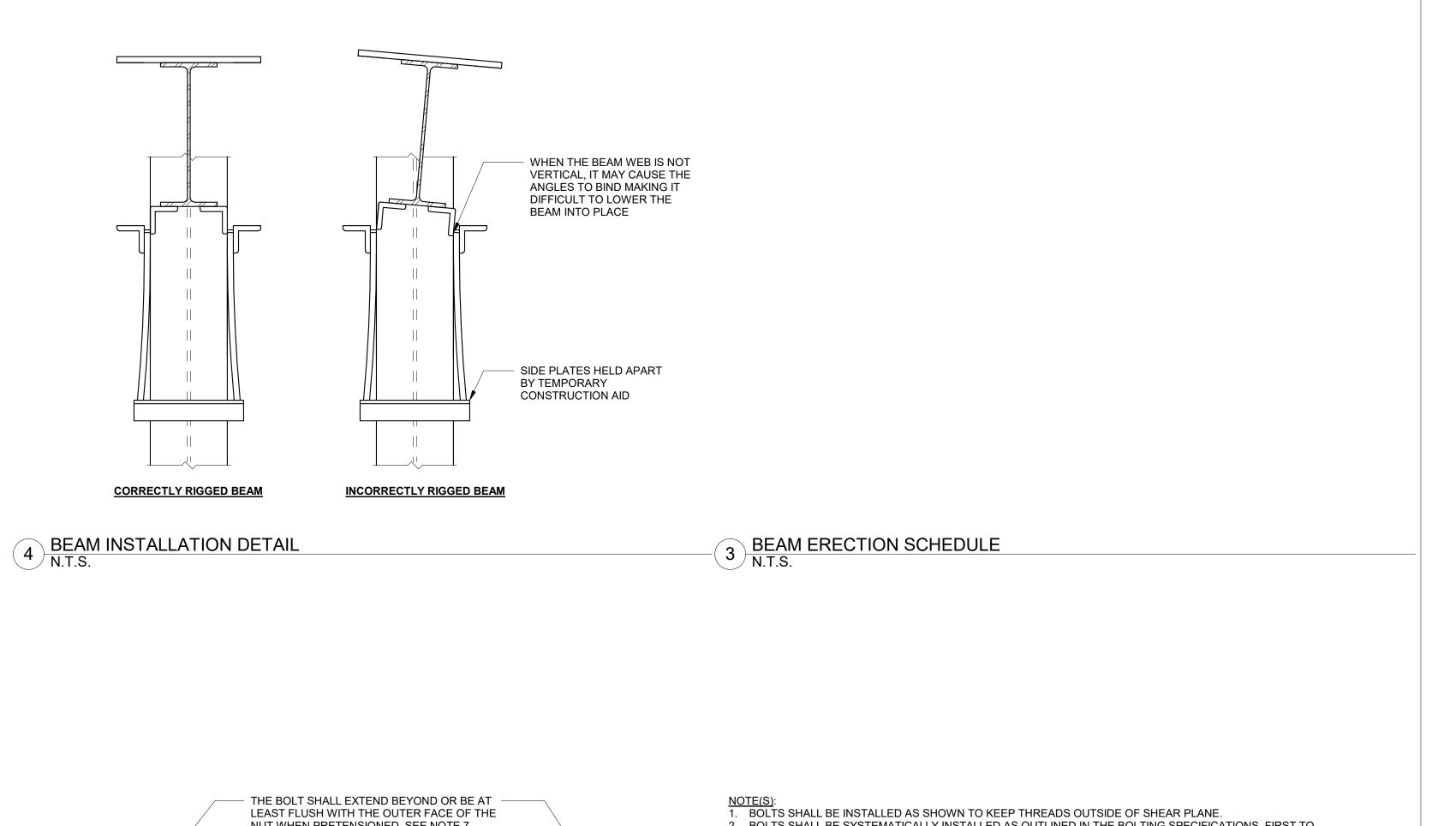
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Other U.S. and foreign applications pending.

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**SP109** 



2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO

3. USE FINGER SHIMS FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS,

7. STEEL DETAILER TO COORDINATE BOLT LENGTHS WITH REQUIRED WASHERS AND POTENTIAL SHIMMING

8. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO

9. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF THE HOLE TO THE EDGE OF THE CONNECTED

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

11. WHEN USING DIRECT TENSION INDICATORS (DTI) FOR PRETENSIONING. VERIFY IF ADDITIONAL WASHER

5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.

FOR EACH BOLT DIAMETER, BUT SHALL NOT BE LESS THAN ONE BOLT DIAMETER.

IS REQUIRED TO ENSURE DTIs CAN WORK EFFECTIVELY WHEN PRETENSIONED.

REQUIRED. VERIFY THREADS ARE EXCLUDED FROM THE SHEAR PLANE.

6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.

A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.

INC. IF GAPS ARE GREATER THAN 1/4 INCH.

THICKNESS WITH STEEL FABRICATOR.

4. NUT SHALL BE ASTM A563.

THE THREADS.

**A490 HEAVY HEX BOLT** 

NUT WHEN PRETENSIONED, SEE NOTE 7

MINIMUM (1) 5/16 INCH THICK WASHER

SIDE PLATE {A} OR PLATE {B}

FINGER SHIMS MAY BE PLACED

HOLE SIZE = BOLT DIA. + 1/8"

ANGLE {E}, ANGLE {G}, ANGLE

WASHER AS APPLICABLE

BETWEEN FAYING SURFACES OF

SLOTTED HOLE -

SHEAR PLANE

ANGLES AND PLATE

{H}, OR PLATE {T}

F2280 TC BOLT OR F3148 FIXED SPLINE

- FOR BOLTS UP TO 1 1/4 INCH DIAMETER MINIMUM

(1) ORDINARY THICKNESS ASTM F436 WASHER.

1 1/2 INCH DIAMETER BOLTS SHALL REQUIRE

| = = = = = = = = = BOTTOM DOG — UNDER LOAD BOTTOM DOG -UNDER LOAD 1. LOWER BEAM INTO PLACE 2. INSERT A FEW BOLTS TO SECURE ASSEMBLY INSERT SECOND, AS APPLICABLE **FRONT ELEVATION SECTION VIEW** TYPICAL SEQUENCE OF ERECTION:

1. LOWER THE BEAM INTO PLACE FROM ABOVE. . INSERT A FEW BOLTS TO SECURE ASSEMBLY. ONCE BOTTOM DOG 3. BOTTOM DOG SHALL BE REMOVED. IT IS RECOMMENDED THAT IT BE REMOVED BY TORCH IS REMOVED, THE BOTTOM DOG -CUTTING A 'V' SECTION OUT OF ONE OF THE ANGLE LEGS TO ALLEVIATE THE LOAD AND THEN SIDE PLATES WILL PROCEED TO REMOVE IT. IT IS NOT RECOMMENDED TO USE A GRINDING WHEEL TO REMOVE REMOVED CLAMP TOGETHER THE WELDS WHILE THE DOG IS UNDER LOAD! AND ELIMINATE GAPS 4. BOLTS SHALL BE INSERTED INTO HOLES IN THE SIDE PLATES {A}. 3. CAREFULLY REMOVE BOTTOM DOG AS IT IS UNDER LOAD. 4. SYSTEMATICALLY PRE-TENSION BOLTS PER 5. SYSTEMATICALLY PRE-TENSION BOLTS PER RCSC SPECIFICATIONS. THEN INSERT ALL REMAINING BOLTS STARTING WITH THE SPECIFICATIONS, STARTING WITH THE TIGHTEST PLIES

BOTTOM ROW, THEN THE VERTICAL ROW, AND LAST THE

TOP ROW. SNUG TIGHTEN ALL BOLTS.

FIRST. (NOTE: COORDINATE LOT TESTING AND

INSPECTIONS WITH THIRD PARTY INSPECTION TEAM AS

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Other U.S. and foreign applications pending.

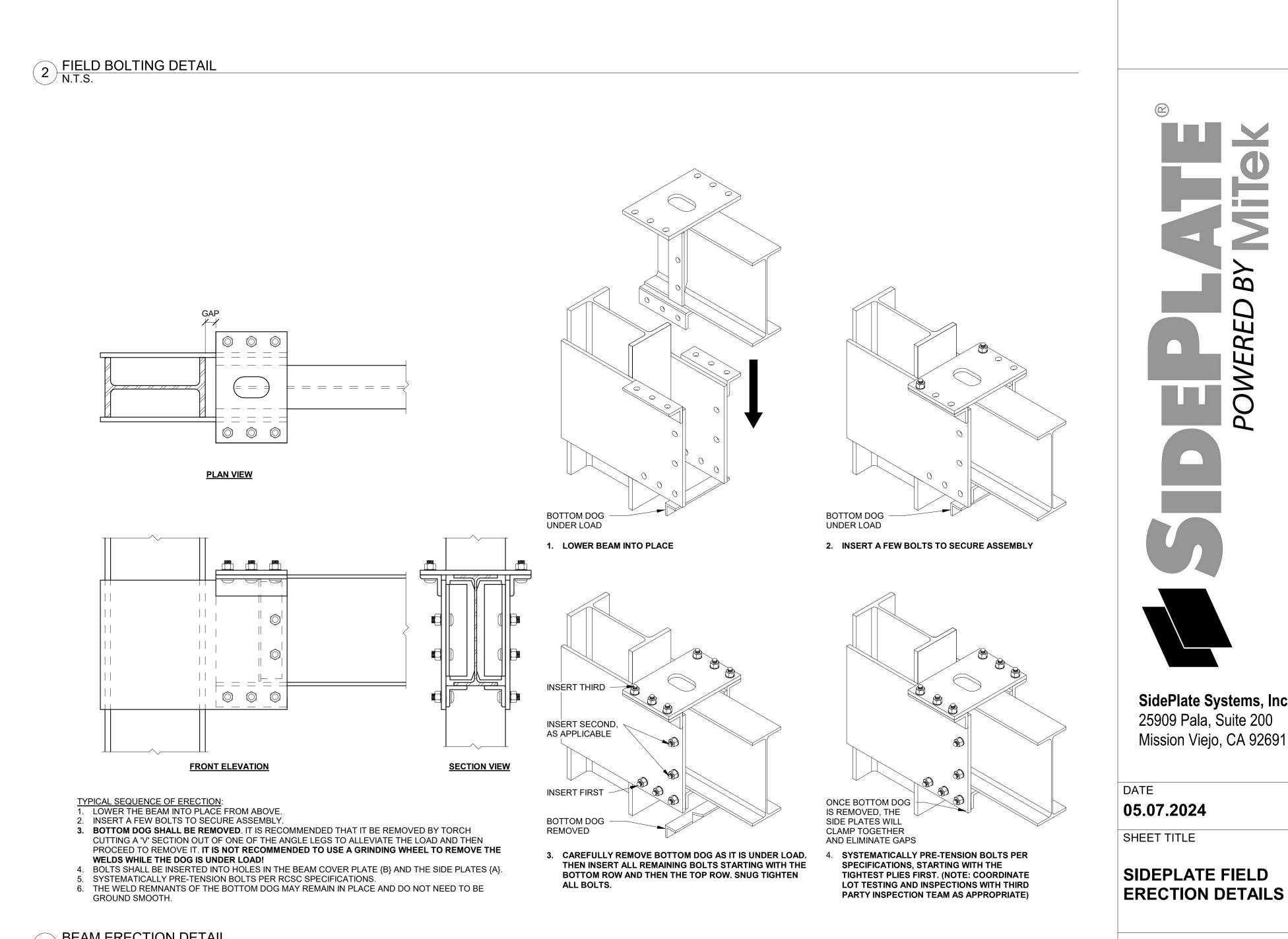
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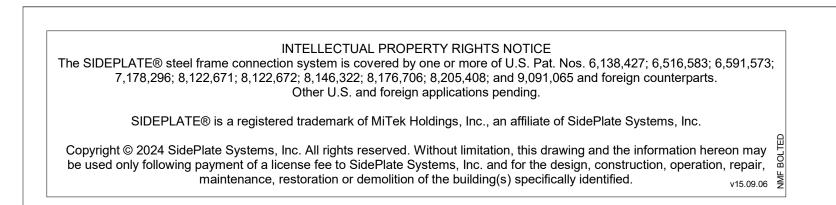
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6 NARROW BEAM ERECTION SCHEDULE N.T.S.

6. THE WELD REMNANTS OF THE BOTTOM DOG MAY REMAIN IN PLACE AND DO NOT NEED TO BE

GROUND SMOOTH.



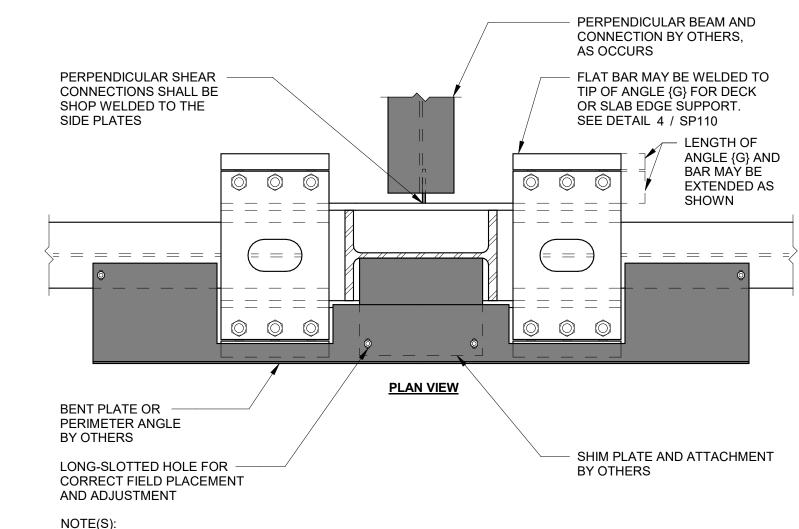


PERPENDICULAR BEAM AND CONNECTION BY OTHERS, AS OCCURS PERPENDICULAR SHEAR ANGLE (G) MAY BE EXTENDED CONNECTIONS SHALL BE FOR DECK SUPPORT AT SHOP WELDED TO THE FABRICATOR'S DISCRETION SIDE PLATES LENGTH OF ANGLE (G) MAY BE EXTENDED AS SHOWN PLAN VIEW SHIM PLATE FOR DECK SUPPORT, AS REQUIRED

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.

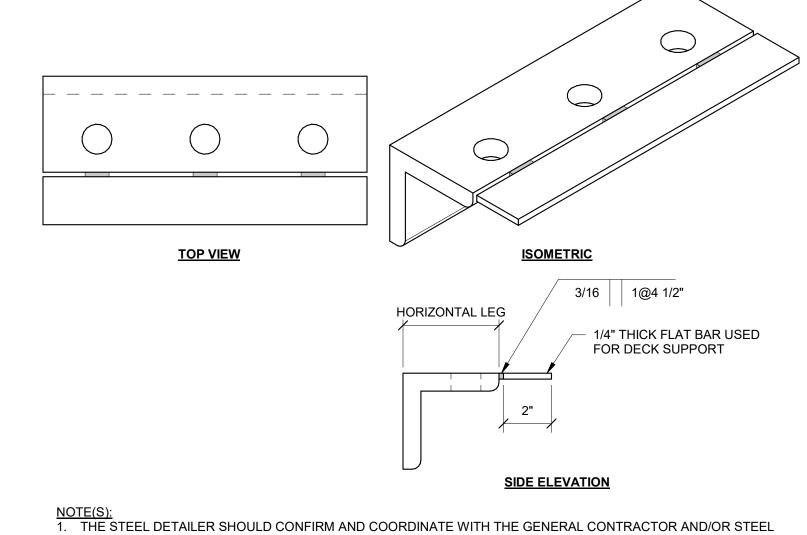
(OPTIONAL) DECK SUPPORT DETAIL



NOTE(S):

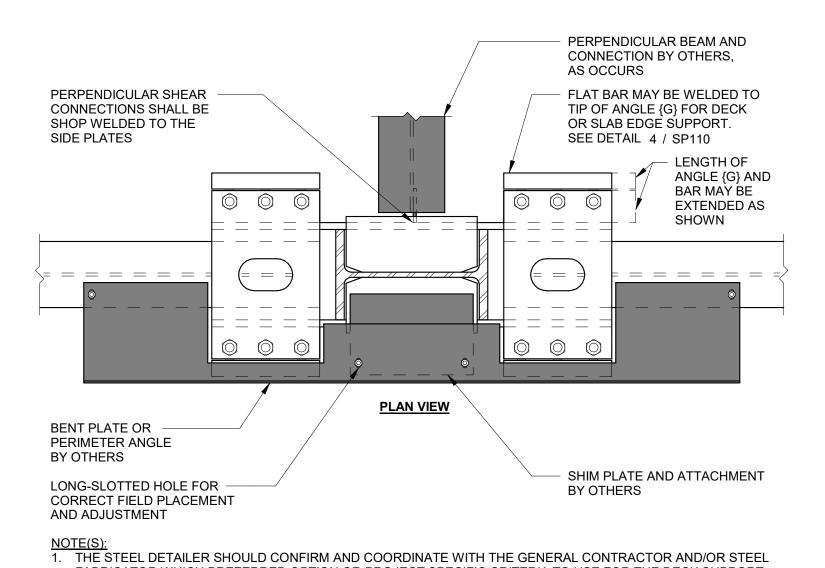
1. THE STEEL DETAILER SHOULD CONFIRM AND COORDINATE WITH THE GENERAL CONTRACTOR AND/OR STEEL FABRICATOR WHICH PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA TO USE FOR THE DECK SUPPORT.

(OPTIONAL) WELDED FLAT BAR FOR SLAB EDGE SUPPORT DETAIL N.T.S.



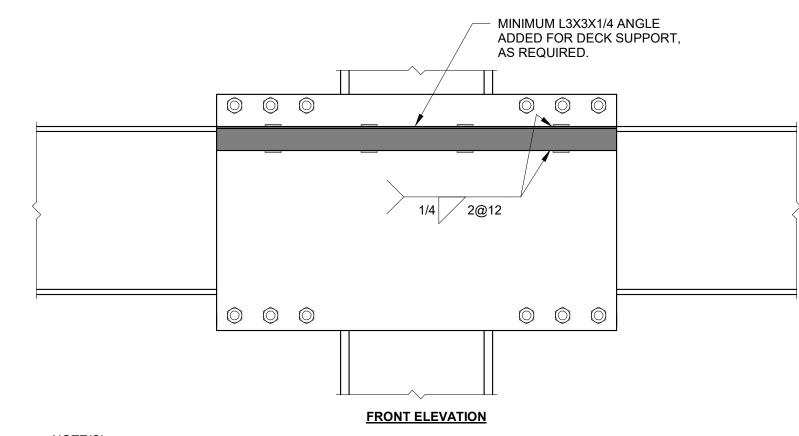
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(OPTIONAL) WELDED FLAT BAR TO ANGLE {G} FOR DECK SUPPORT N.T.S.



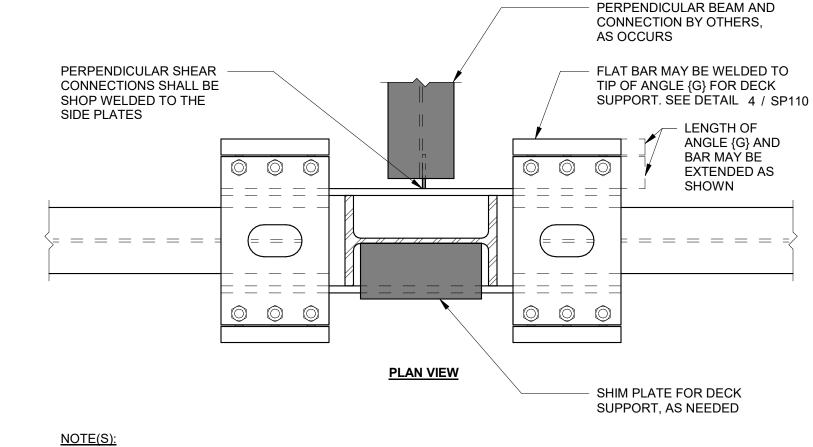
FABRICATOR WHICH PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA TO USE FOR THE DECK SUPPORT.

(OPTIONAL) WELDED FLAT BAR FOR SLAB EDGE SUPPORT DETAIL



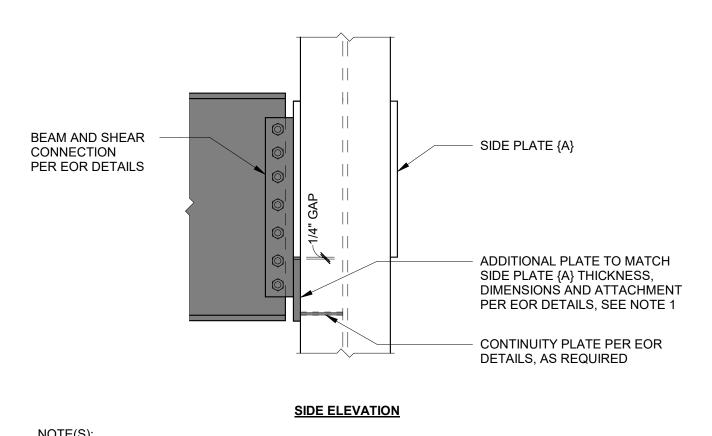
NOTE(S):

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.



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.



NOTE(S):

1. PLATE SHALL BE A572 GRADE 50. NO WELD TIE-IN ACROSS 1/4 INCH GAP.

2. LONGITUDINAL ANGLES {G} NOT SHOWN FOR CLARITY.

3. SEE SCHEDULE FOR INFORMATION NOT SHOWN.

(OPTIONAL) DECK SUPPORT ANGLE

PERPENDICULAR SHEAR

CONNECTIONS SHALL BE

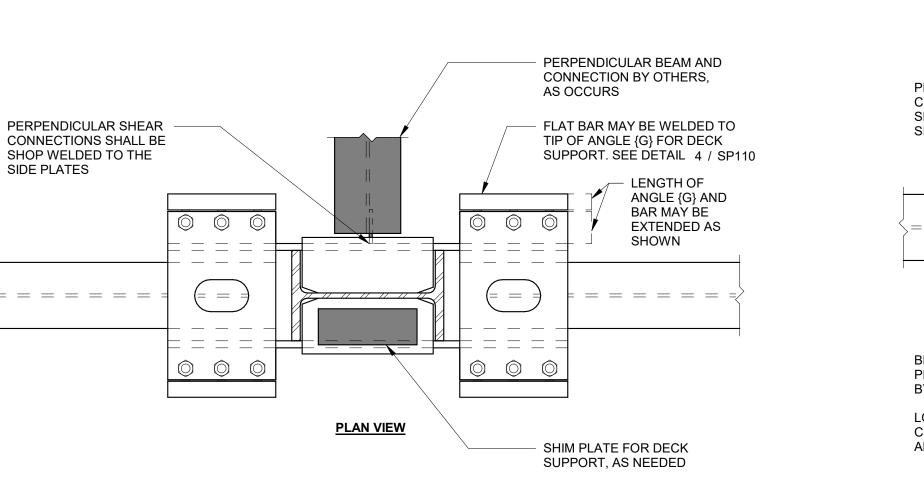
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SHOP WELDED TO THE

SIDE PLATES

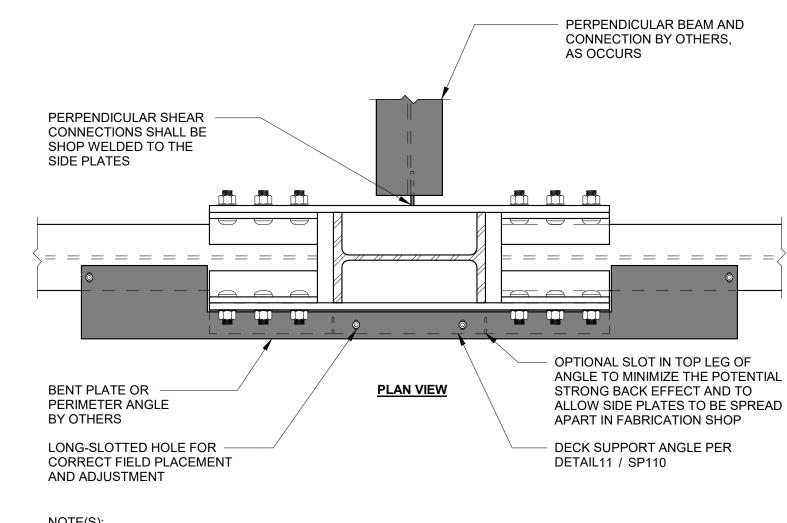


3 DEEP SHEAR CONNECTION TO SIDEPLATE CONNECTION (AS APPLICABLE) N.T.S.



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.



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.

**PLAN VIEW** 

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.

PERPENDICULAR BEAM AND

CONNECTION BY OTHERS,

AS OCCURS

= = = = = = = = =

OPTIONAL SLOT IN TOP LEG OF

STRONG BACK EFFECT AND TO

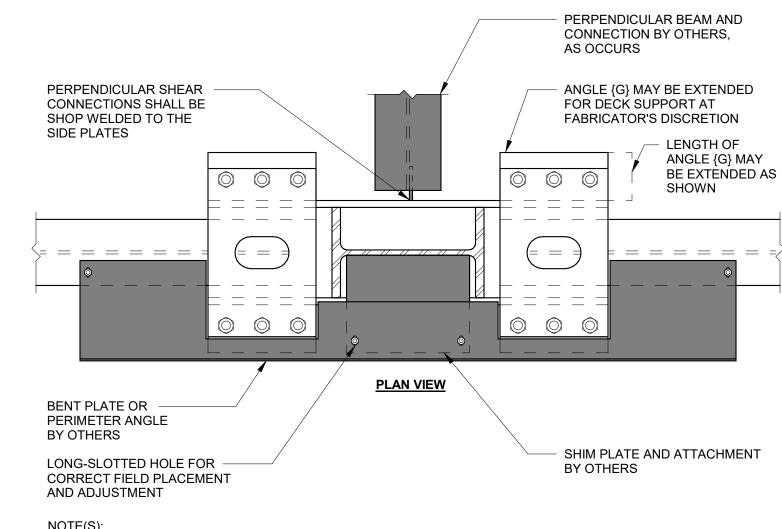
APART IN FABRICATION SHOP

DECK SUPPORT ANGLE PER

DETAIL11 / SP110

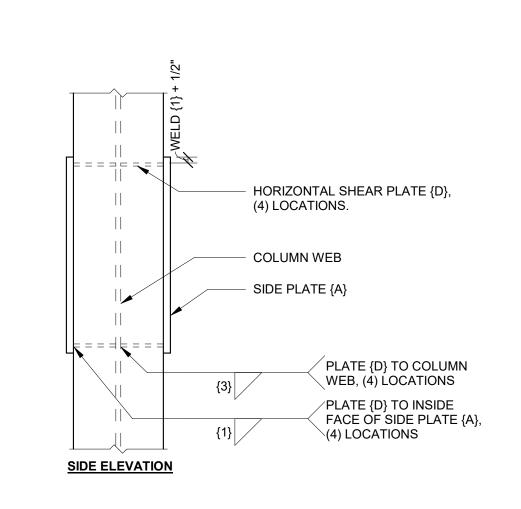
ANGLE TO MINIMIZE THE POTENTIAL

ALLOW SIDE PLATES TO BE SPREAD



NOTE(S):

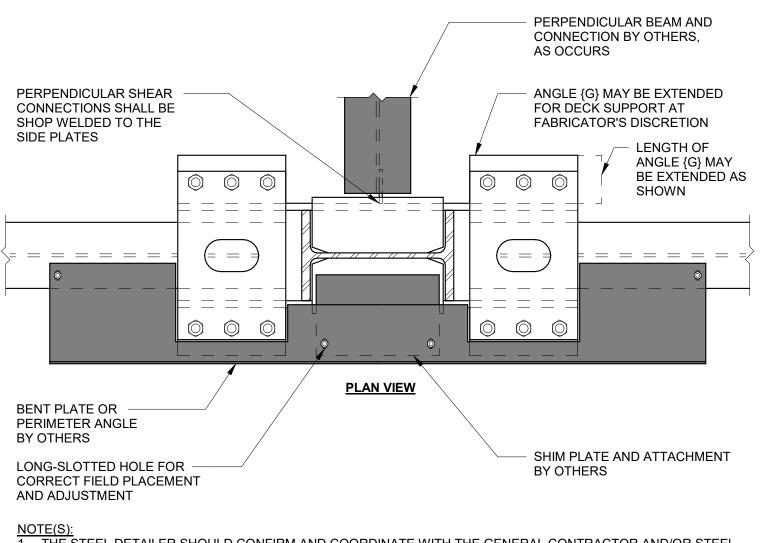
1. THE STEEL DETAILER SHOULD CONFIRM AND COORDINATE WITH THE GENERAL CONTRACTOR AND/OR STEEL FABRICATOR WHICH PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA TO USE FOR THE DECK SUPPORT.



NOTE(S):

1. LONGITUDINAL ANGLES {G} NOT SHOWN FOR CLARITY.

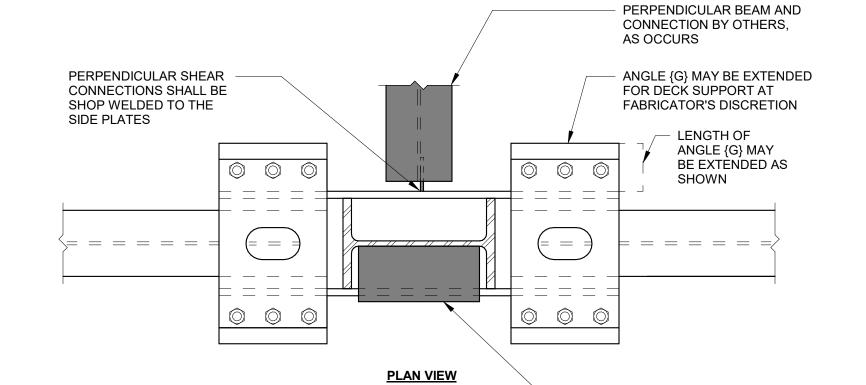
(OPTIONAL) WELDED FLAT BAR DECK SUPPORT DETAIL



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.

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



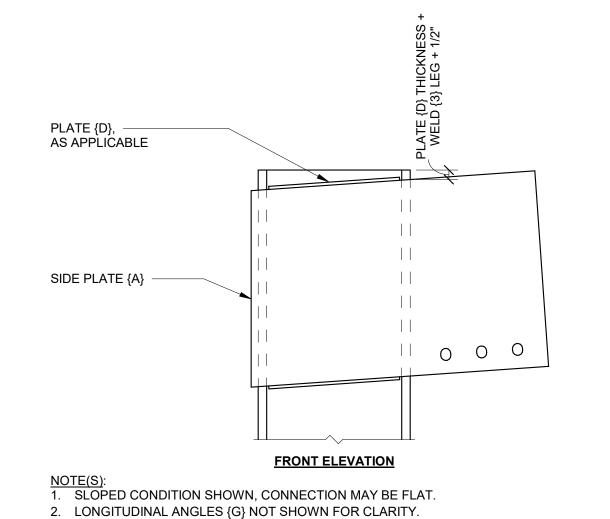
SHIM PLATE FOR DECK

SUPPORT, AS REQUIRED

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.

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



1 DISCONTINUOUS COLUMN DETAIL N.T.S.

SIDDEPPED BY POWERED BY

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

05.07.2024

SHEET TITLE

SIDEPLATE
COORDINATION
ITEMS

DATE

SP110

MISCELLANEOUS

SidePlate Systems, Inc.

25909 Pala, Suite 200

Mission Viejo, CA 92691

SP111

DATE

05.07.2024

SHEET TITLE

DETAILS

SIDEPLATE

5 BEAM WITH TOP FLANGE CONTINUITY PLATE AND BOTTOM FLANGE TO FACE OF SIDE PLATE N.T.S.

/PJP TOP CONTINUITY PLATE TO COLUMN WEB, (2) LOCATIONS BEAM, FLANGE WELDS -- 1" THICK TOP CONTINUITY PLATE, PER EOR DETAILS (2) LOCATIONS (2) LOCATIONS SHEAR CONNECTION -PER EOR DETAILS TOP CONTINUITY PLATE TO COLUMN FLANGES (2) LOCATIONS PLATE {D} PER SCHEDULE, (2) LOCATIONS PLATE {D} TO COLUMN WEB AND FLANGES, (2) LOCATIONS **SIDE ELEVATION** 

NOTE(S):
1. ATTACHMENT SHOWN ON ONE SIDE OF SIDEPLATE CONNECTION FOR ILLUSTRATION. ATTACHMENT CAN OCCUR ON LEFT SIDE, RIGHT SIDE, OR BOTH SIDES OF CONNECTION AS APPLICABLE.

6 BEAM WITH TOP AND BOTTOM FLANGE TO FACE OF SIDE PLATE N.T.S.

SIDE ELEVATION NOTE(S):

1. ATTACHMENT SHOWN ON ONE SIDE OF SIDEPLATE CONNECTION FOR ILLUSTRATION. ATTACHMENT CAN OCCUR ON LEFT SIDE, RIGHT SIDE, OR BOTH SIDES OF CONNECTION AS APPLICABLE.

BEAM, FLANGE WELDS PER EOR DETAILS SHEAR CONNECTION -PER EOR DETAILS PLATE {D} TO SIDE PLATE {A}, (4) LOCATIONS PLATE {D} TO COLUMN \
WEB AND FLANGES, (4) LOCATIONS PLATE {D} PER SCHEDULE, (4) LOCATIONS

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LIGHT GAGE PLATE FOR GAP CLOSURE, BY OTHERS 

**PLAN VIEW** 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 GAP CLOSURE. 2. SEE GENERAL NOTES FIREPROOFING SECTION FOR MORE DETAILS.

- METAL LATH/ LIGHT GAGE PLATE FOR GAP CLOSURE, BY OTHERS **SECTION VIEW** 

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 GAP CLOSURE.

2. SEE GENERAL NOTES FIREPROOFING SECTION FOR MORE DETAILS.

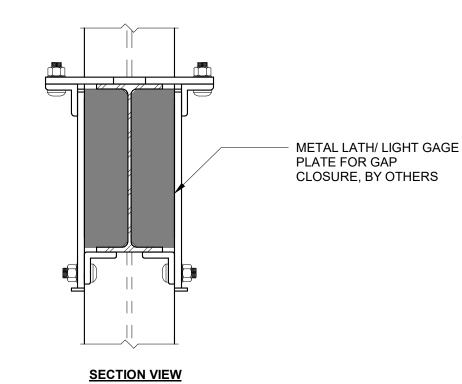
LIGHT GAGE PLATE FOR GAP CLOSURE, BY OTHERS 

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 GAP CLOSURE.

**PLAN VIEW** 

2. SEE GENERAL NOTES FIREPROOFING SECTION FOR MORE DETAILS.



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 GAP CLOSURE.

2. SEE GENERAL NOTES FIREPROOFING SECTION FOR MORE DETAILS.