

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

Project Status



Project Name

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: Designer

DRAWN: Author

CHECKED: Checker

CHECKED:

APPROVED: Approver
FILENAME

BC PROJECT NUMBER

Project Number

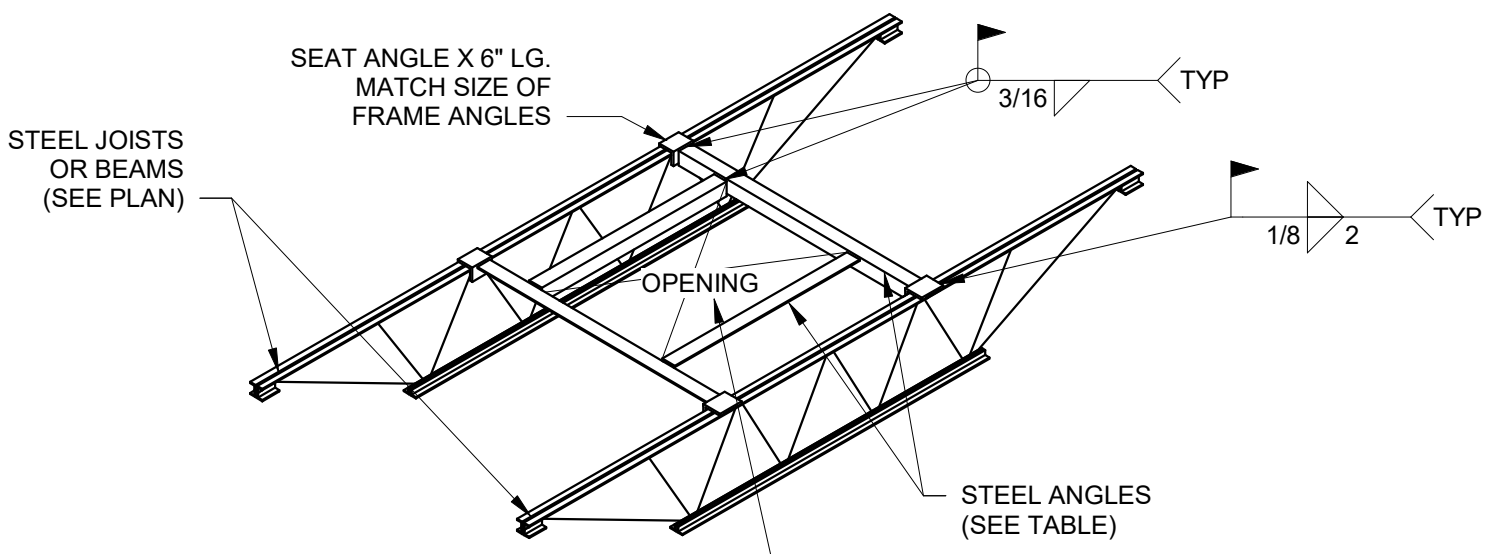
CLIENT PROJECT NUMBER

STEEL ROOF FRAMING DETAILS

DRAWING NUMBER
S521

SPAN	ANGLE SIZE
UP TO 4'-0"	L3X3X3/16
4'-1" TO 6'-0"	L4X3X1/4 (LLV)
6'-1" TO 8'-0"	L5X3X1/4 (LLV)
8'-1" TO 10'-0"	L6X4X5/16 (LLV)

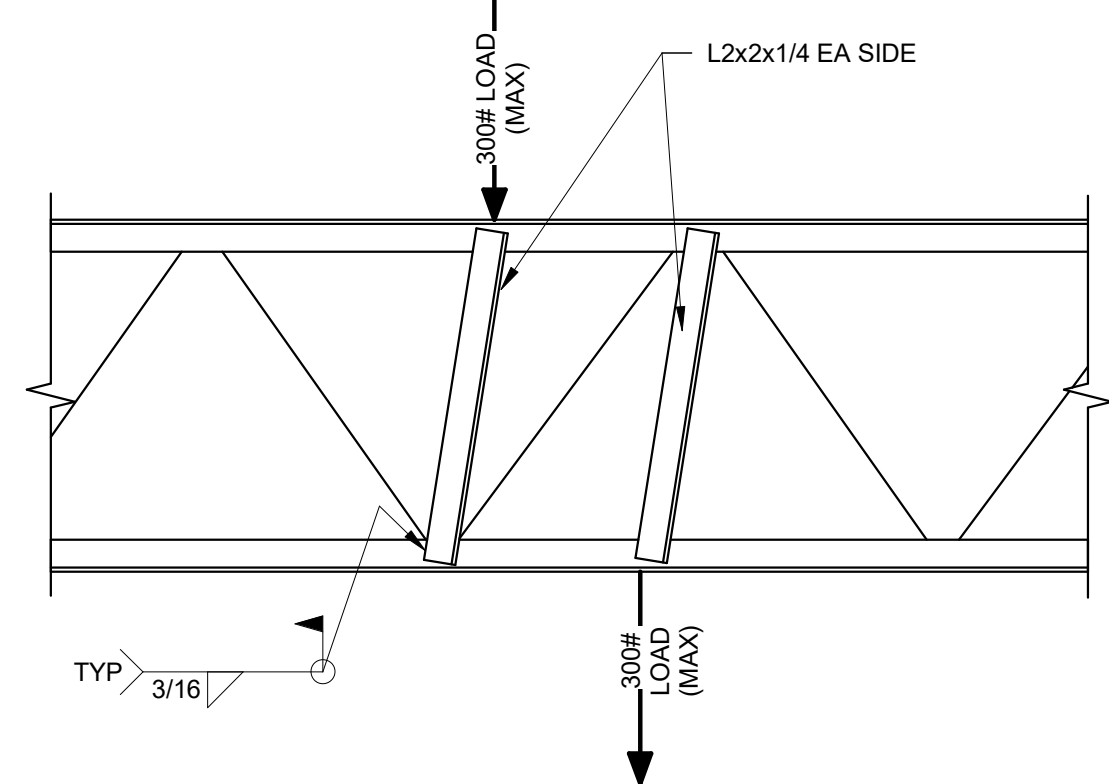
- NOTES:
- PROVIDE FRAMING AT ROOF DRAINS.
 - WELD/CONNECT DECK TO ALL FRAMING AT 6" OC MAXIMUM SPACING. COORDINATE WITH ENGINEER FOR SPECIAL DETAILS REQUIRED TO CONNECT ANGLES TO EXISTING DECK IN AN INSTALLATION OF NEW UNIT ON EXISTING ROOF FRAMING.
 - WHEN JOIST BRIDGING CONFLICTS WITH ROOF OPENING FRAMES, STOP BRIDGING AT EACH SIDE OF OPENING. PROVIDE CROSS BRIDGING AT LAST BRIDGING SPACE EACH SIDE OF OPENING AND CONNECT ENDS OF BRIDGING TO OPENING FRAMING. ADD ADDITIONAL BRIDGING AND CROSS BRIDGING ON EACH SIDE OF OPENING ON EACH SIDE OF CUT BRIDGING AREA WITH BRIDGING EXTENDED ONE BAY BEYOND EACH SIDE OF OPENING.
 - ANCHOR EQUIPMENT AND CURB TO MISCELLANEOUS FRAMING SHOWN AS REQUIRED FOR WIND AND/OR SEISMIC FORCES. COORDINATE WITH EQUIPMENT/CURB MANUFACTURER (CONNECTION DESIGN NOT BY PES STRUCTURAL ENGINEERS).
 - THIS DETAIL IS NOT APPLICABLE TO ROOFTOP EQUIPMENT CURBS. REFER TO TYPICAL EQUIPMENT CURB SUPPORT DETAIL FOR CURB SUPPORT FRAMING.



TYPICAL ROOF OPENING DECK SUPPORT FRAMING - ISOMETRIC

SCALE: 3/8" = 1'-0"

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S521

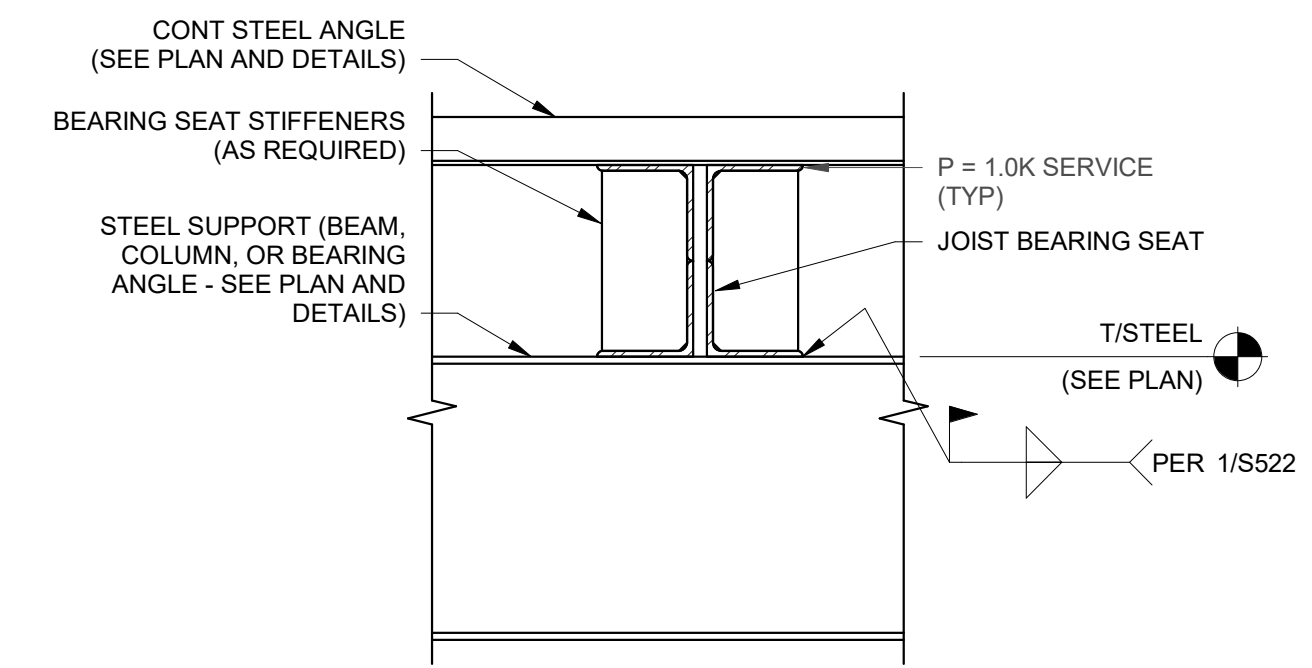


- NOTES:
- STRUT IS NOT REQUIRED WHERE THE DISTANCE FROM PANEL POINT DOES NOT EXCEED 3" FOR K-JOISTS.
 - STRUT IS NOT REQUIRED WHERE NOMINAL CONCENTRATED LOAD DOES NOT EXCEED 100 LBS AND THE ATTACHMENTS ARE CONCENTRIC TO THE CHORD.

TYPICAL JOIST CHORD SUPPORT - SECTION

SCALE: 1" = 1'-0"

2
S521

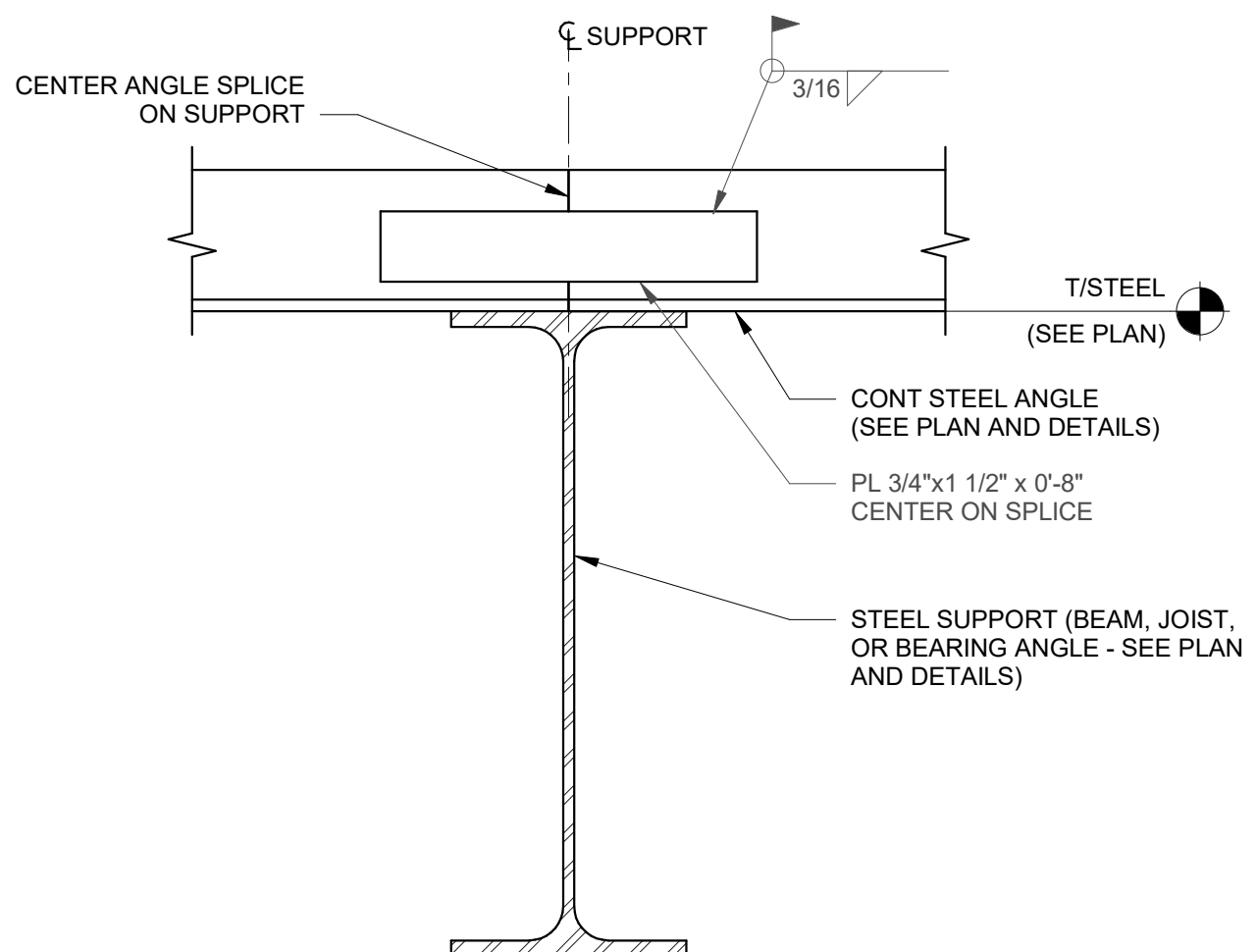


- NOTES:
- JOIST DESIGN ENGINEER SHALL DESIGN BEARING SEAT FOR LATERAL LOAD INDICATED.
 - FABRICATOR SHALL INSTALL BEARING SEAT STIFFENERS IF REQUIRED BY DESIGN.

TYPICAL JOIST ROLLOVER DESIGN FORCE - SECTION

SCALE: 1" = 1'-0"

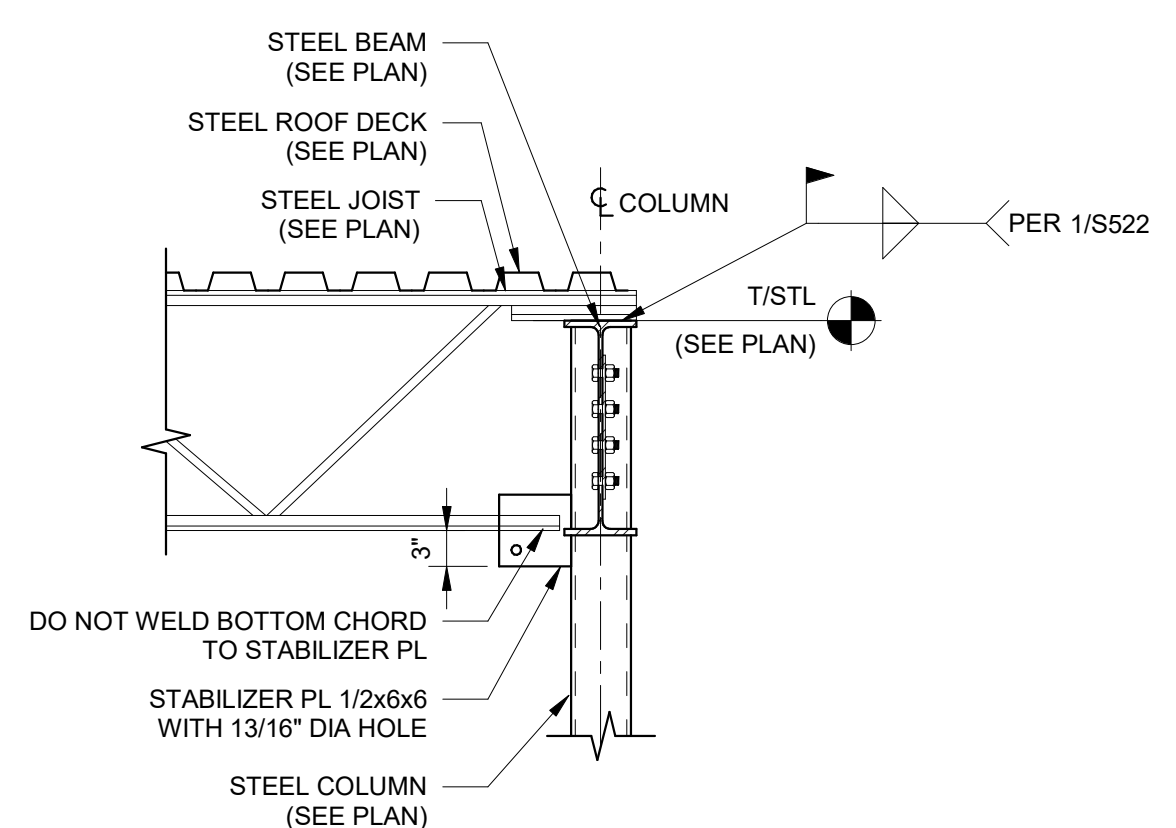
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TYPICAL CONTINUOUS ROOF ANGLE SPLICE - SECTION

SCALE: 3" = 1'-0"

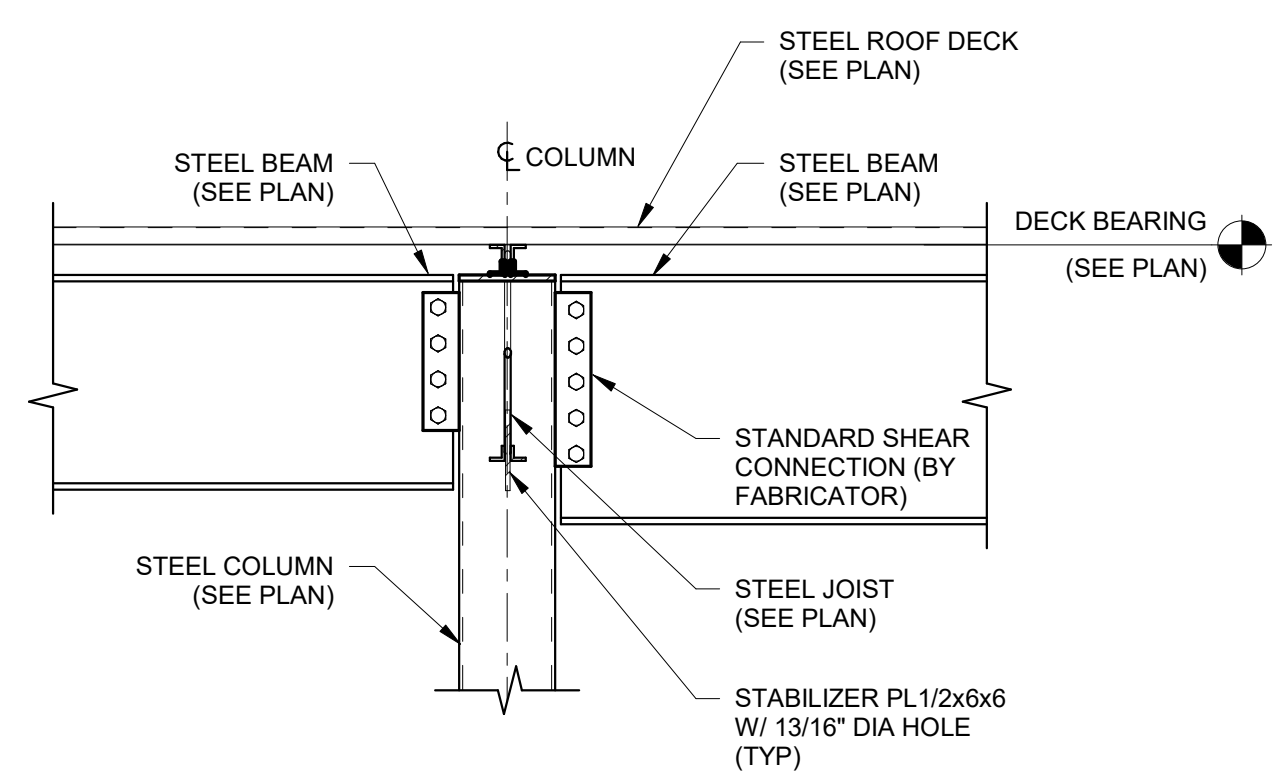
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TYPICAL JOIST AT COLUMN CONNECTION - SECTION

SCALE: 3/4" = 1'-0"

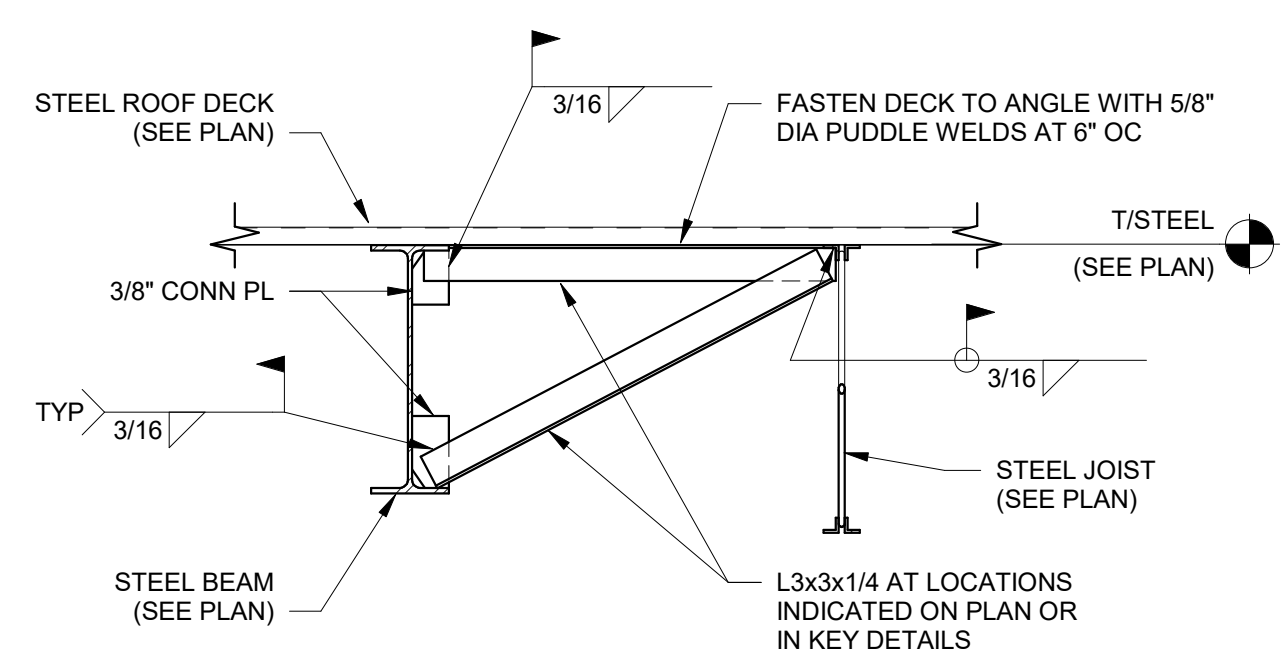
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TYPICAL BEAM/GIRDER @ COLUMN CONNECTION - SECTION

SCALE: 3/4" = 1'-0"

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TYPICAL BEAM BRACING AT ROOF - SECTION

SCALE: 3/4" = 1'-0"

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