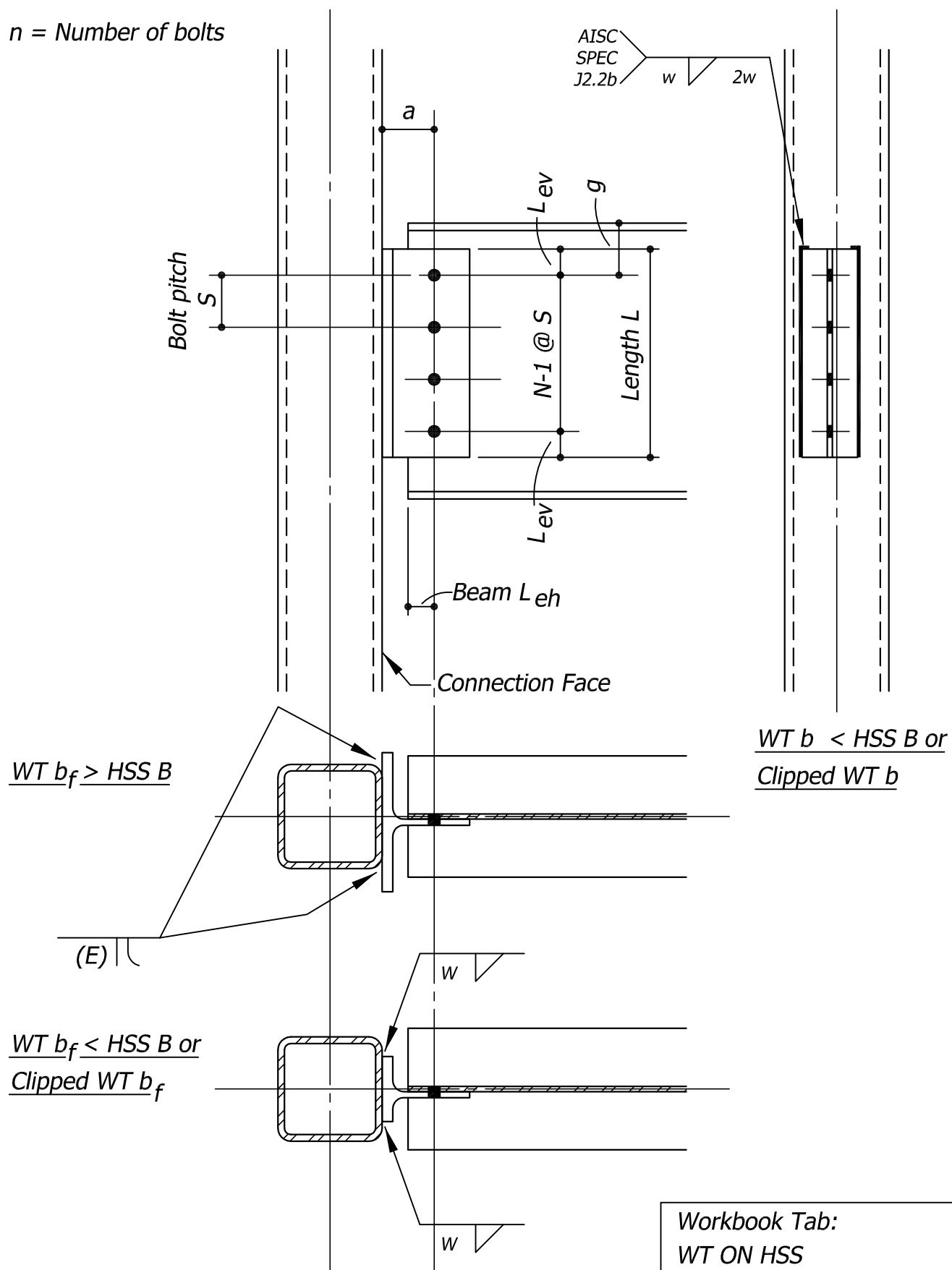


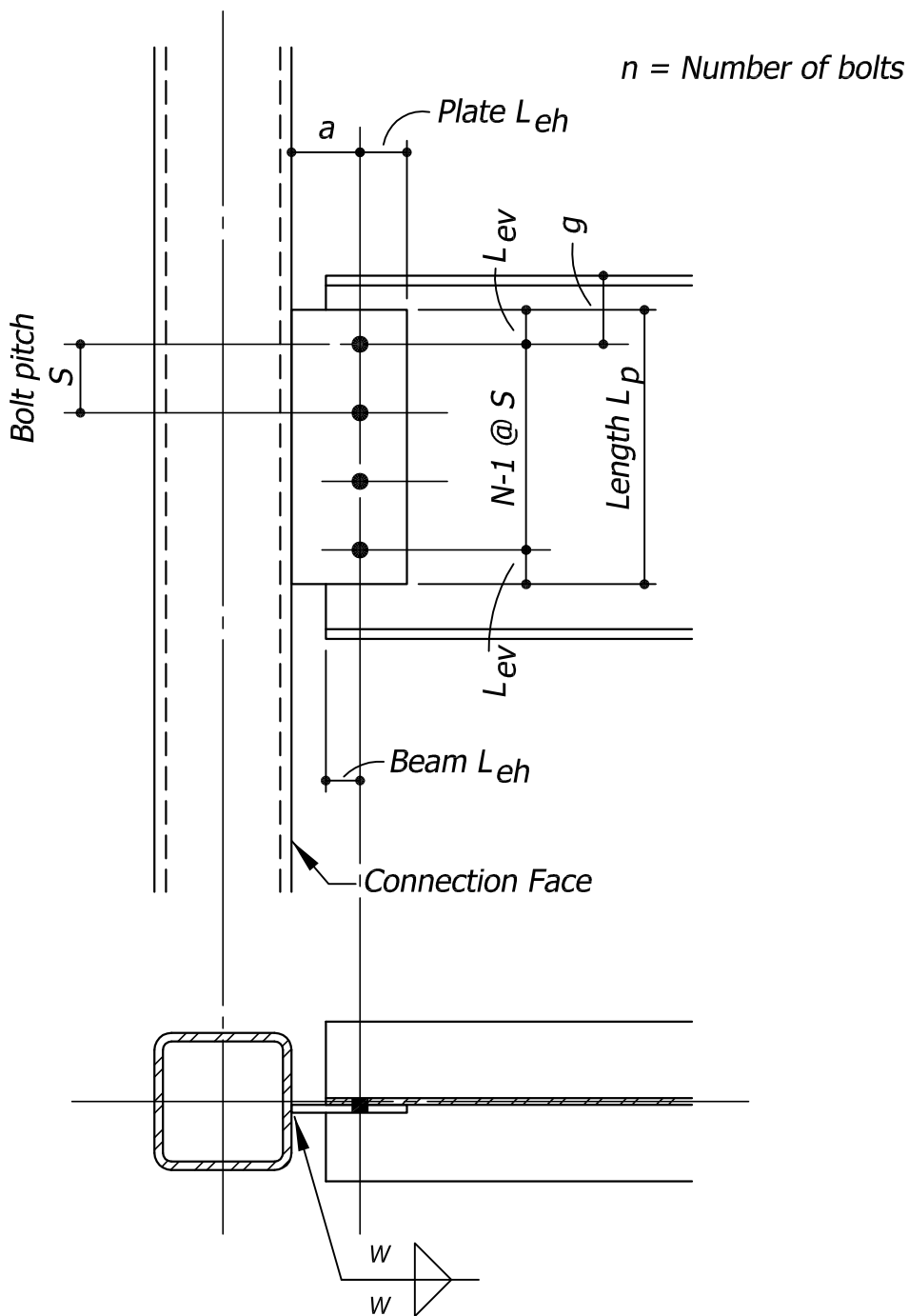
BEAM TO HSS WITH TEE SECTION

n = Number of bolts



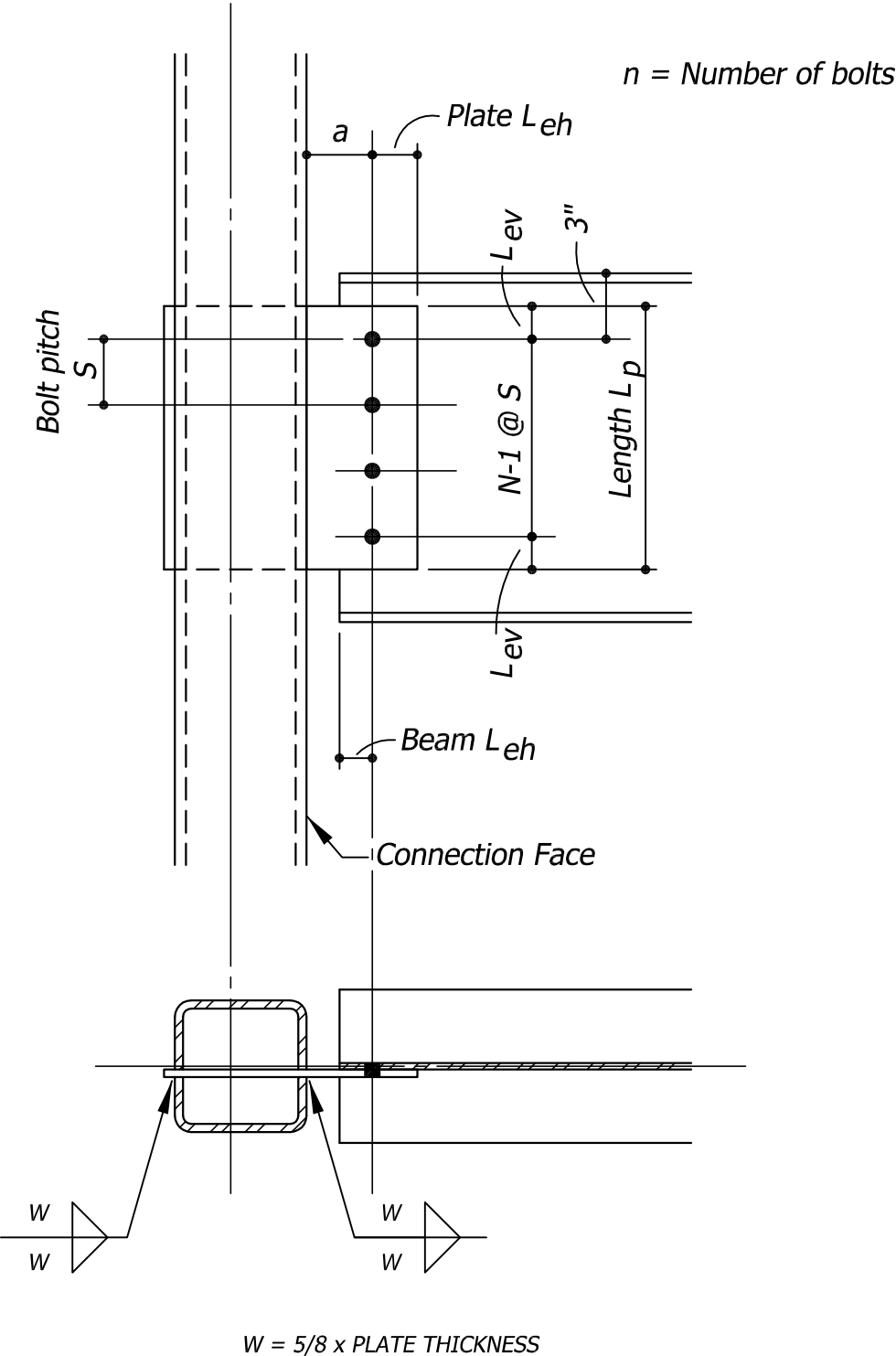
BEAM TO HSS WITH SINGLE PLATE SHEAR CONNECTION

(2010 Conventional SPSC Design Procedure)



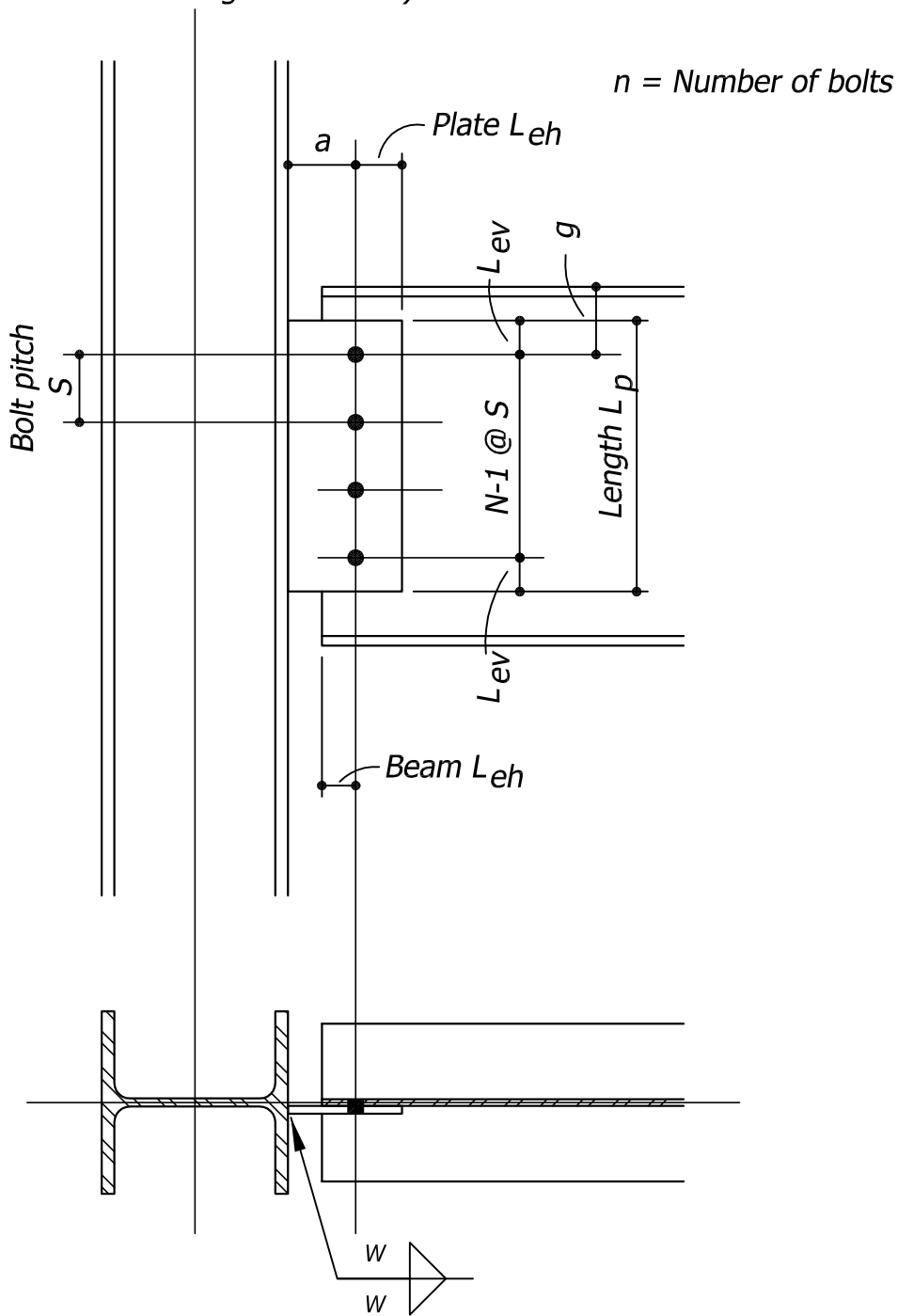
$$W = 5/8 \times \text{PLATE THICKNESS}$$

BEAM TO HSS WITH THRU PLATE SHEAR CONNECTION



BEAM TO WF WITH SINGLE PLATE SHEAR CONNECTION

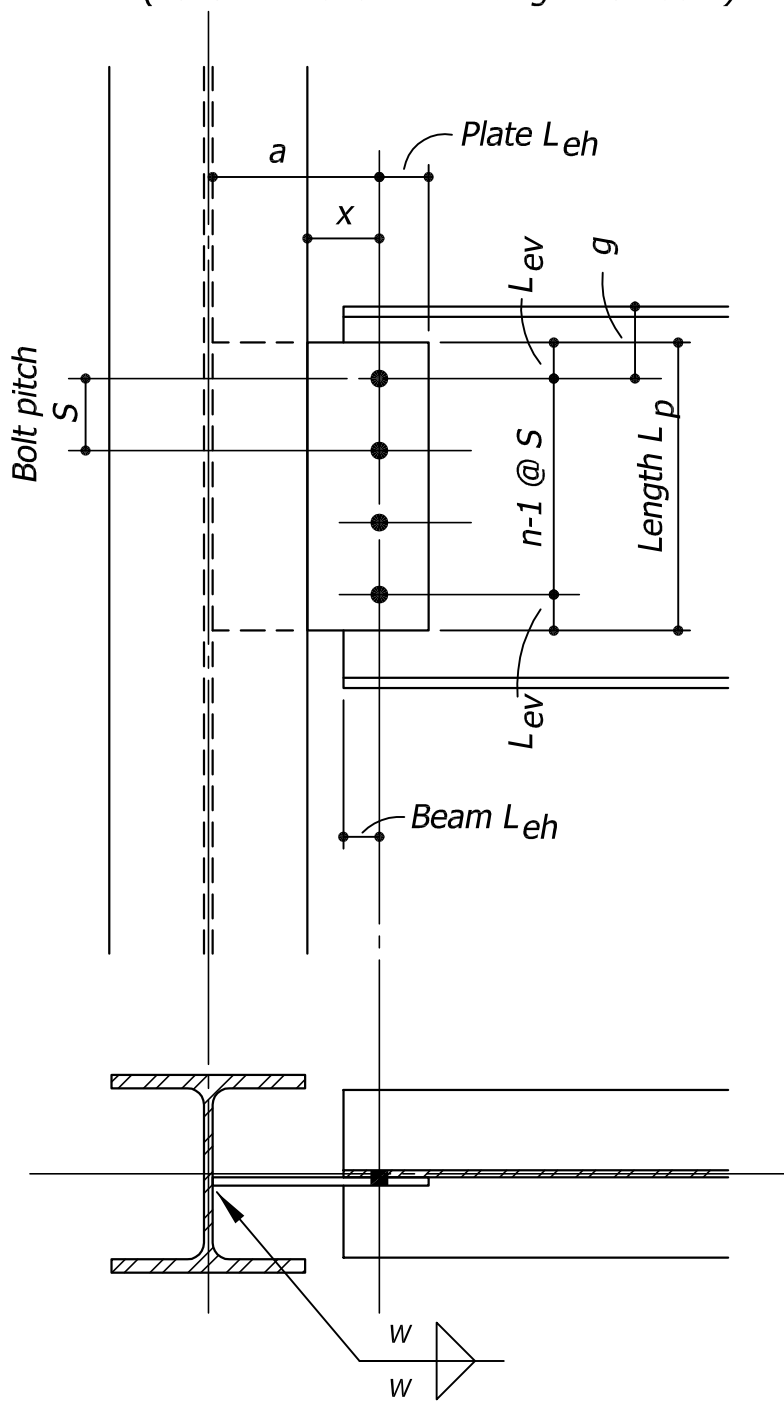
(2010 Conventional SPSC Design Procedure)



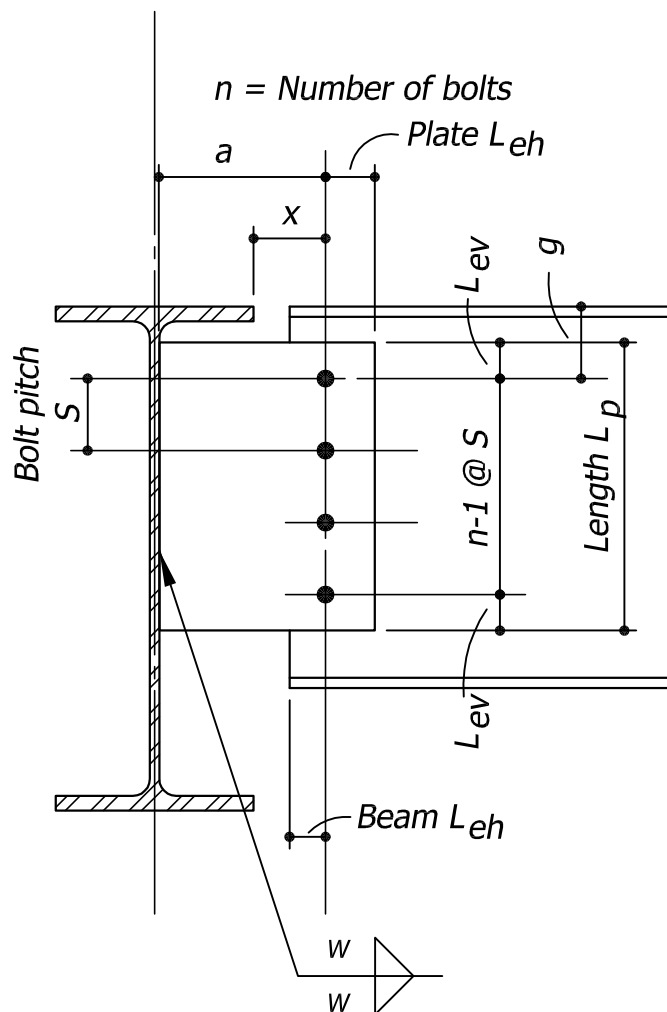
$$W = 5/8 \times \text{PLATE THICKNESS}$$

BEAM TO WF W/ EXTENDED SINGLE PLATE SHEAR CONN.

(2010 Extended SPSC Design Procedure)



SUPPORTING MEMBER IS COLUMN



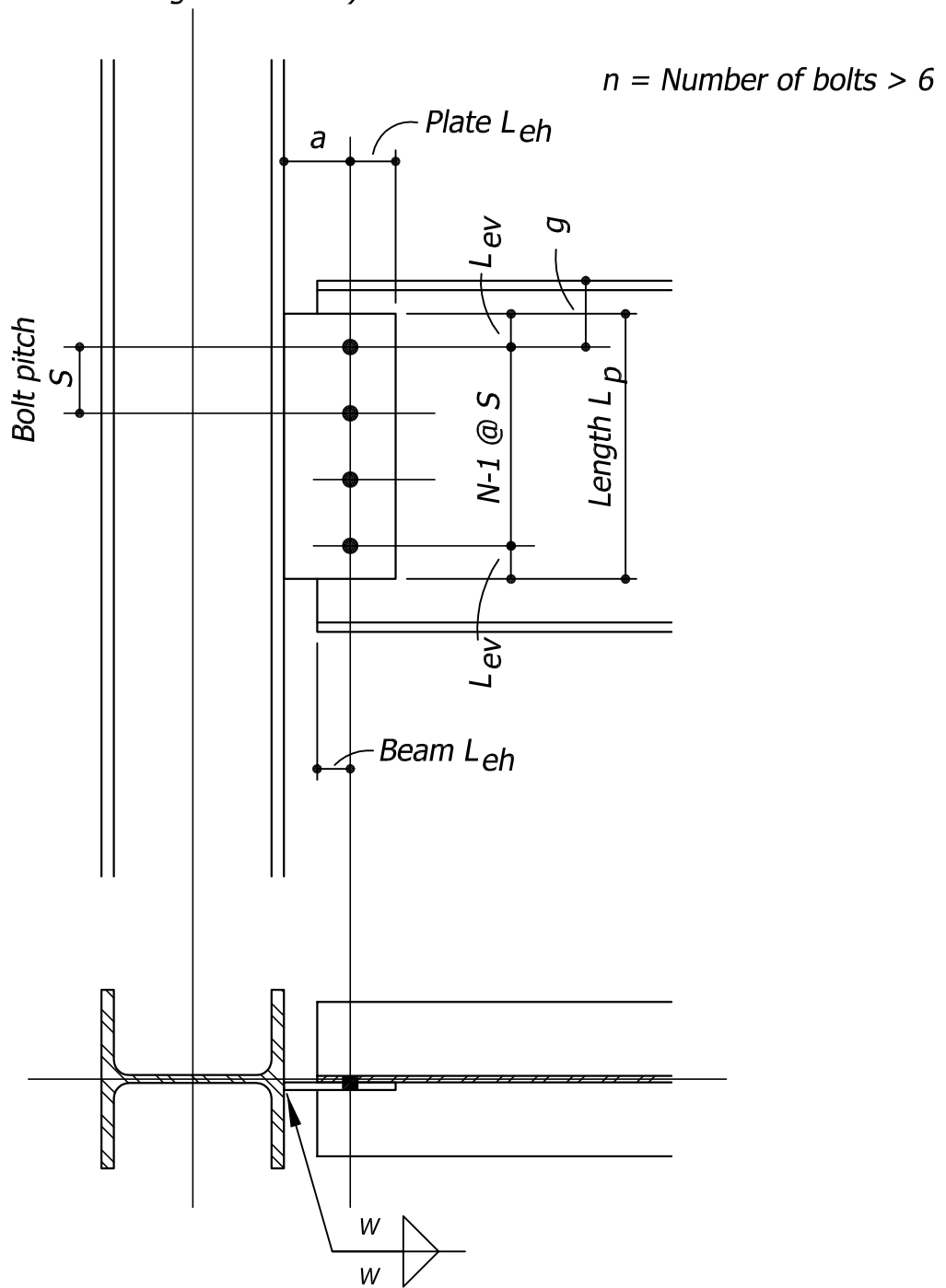
SUPPORTING MEMBER IS BEAM

$$W = 5/8 \times \text{PLATE THICKNESS}$$

Workbook Tab:
EXTENDED SINGLE PLATE

BEAM TO WF WITH SINGLE PLATE SHEAR CONNECTION

(2010 Extended SPSC Design Procedure)

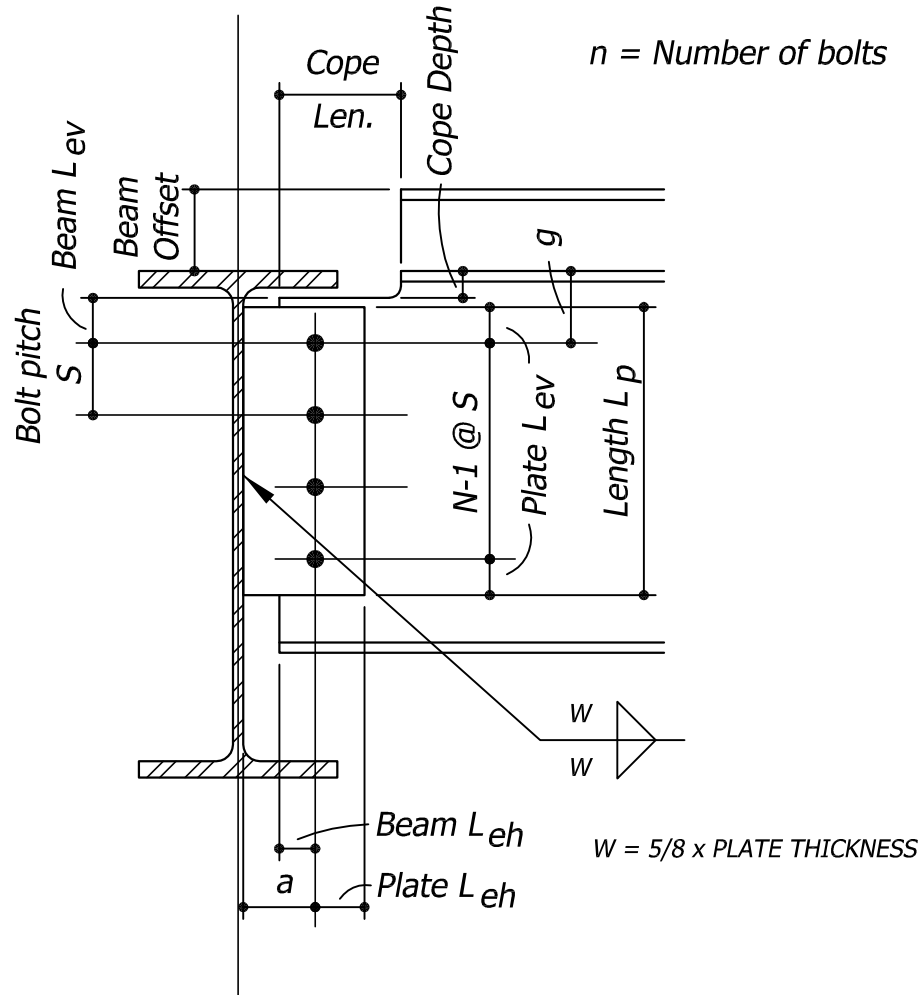


$$W = 5/8 \times \text{PLATE THICKNESS}$$

BEAM TO GIRDER WEB WITH SINGLE PLATE SHEAR CONNECTION

(2010 Conventional SPSC Design Procedure)

Beam $d < Girder d$



(2010 Conventional SPSC Design Procedure)

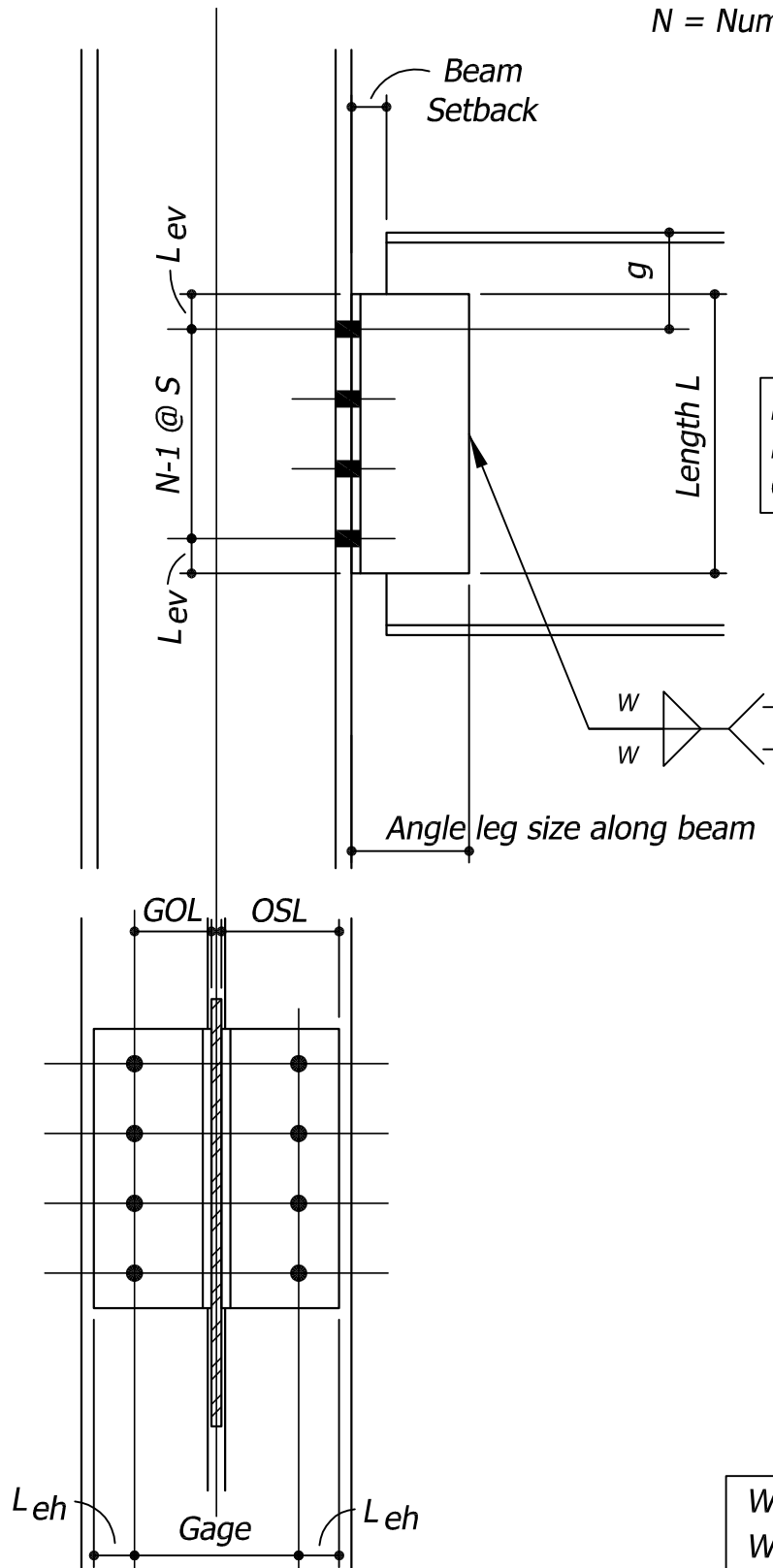
(2010 Conventional SPSC Design Procedure)



DOUBLE ANGLE WELDED TO BEAM, BOLTED TO SUPPORTING MEMBER

SUPPORTING MEMBER IS COLUMN FLANGE OR WEB

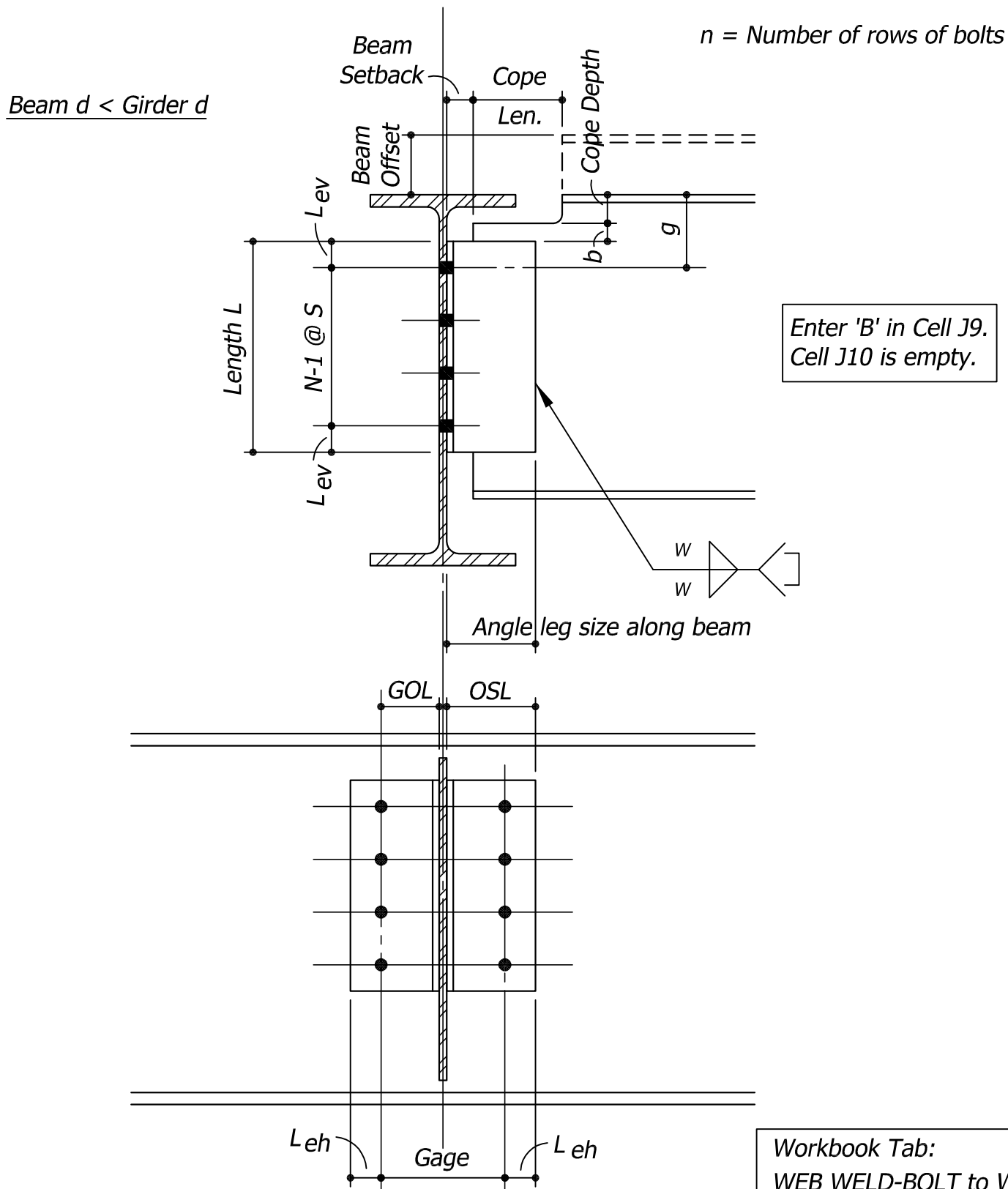
N = Number of rows of bolts



Enter 'C' in Cell J9.
Enter 'F' or 'W' in
Cell J10.

Workbook Tab:
WEB WELD-BOLT to WF

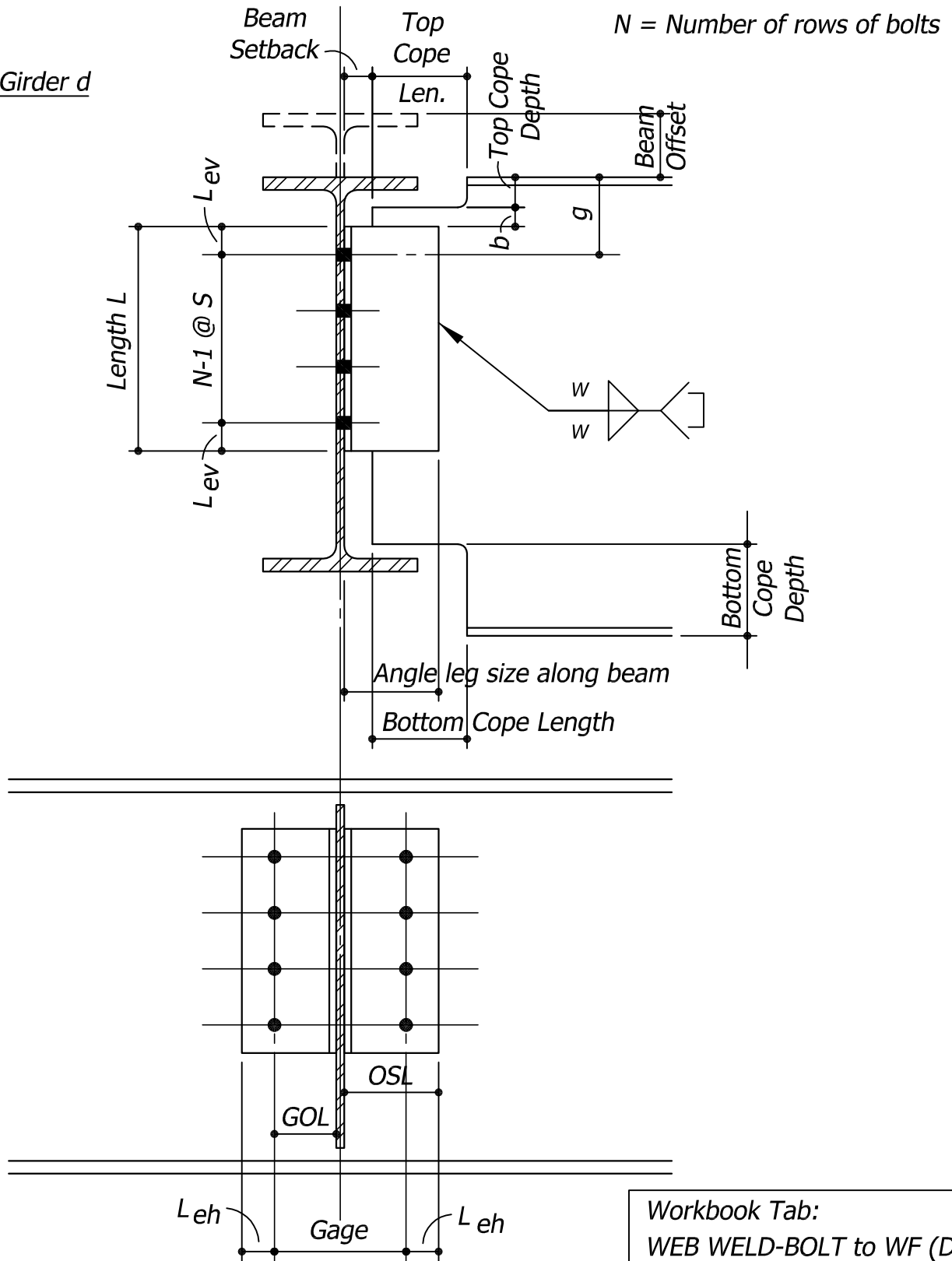
DOUBLE ANGLE WELDED TO BEAM, BOLTED TO SUPPORTING MEMBER SUPPORTING MEMBER IS GIRDER



DOUBLE ANGLE WELDED TO DEEP BEAM, BOLTED TO SUPPORTING MEMBER

SUPPORTING MEMBER IS GIRDER

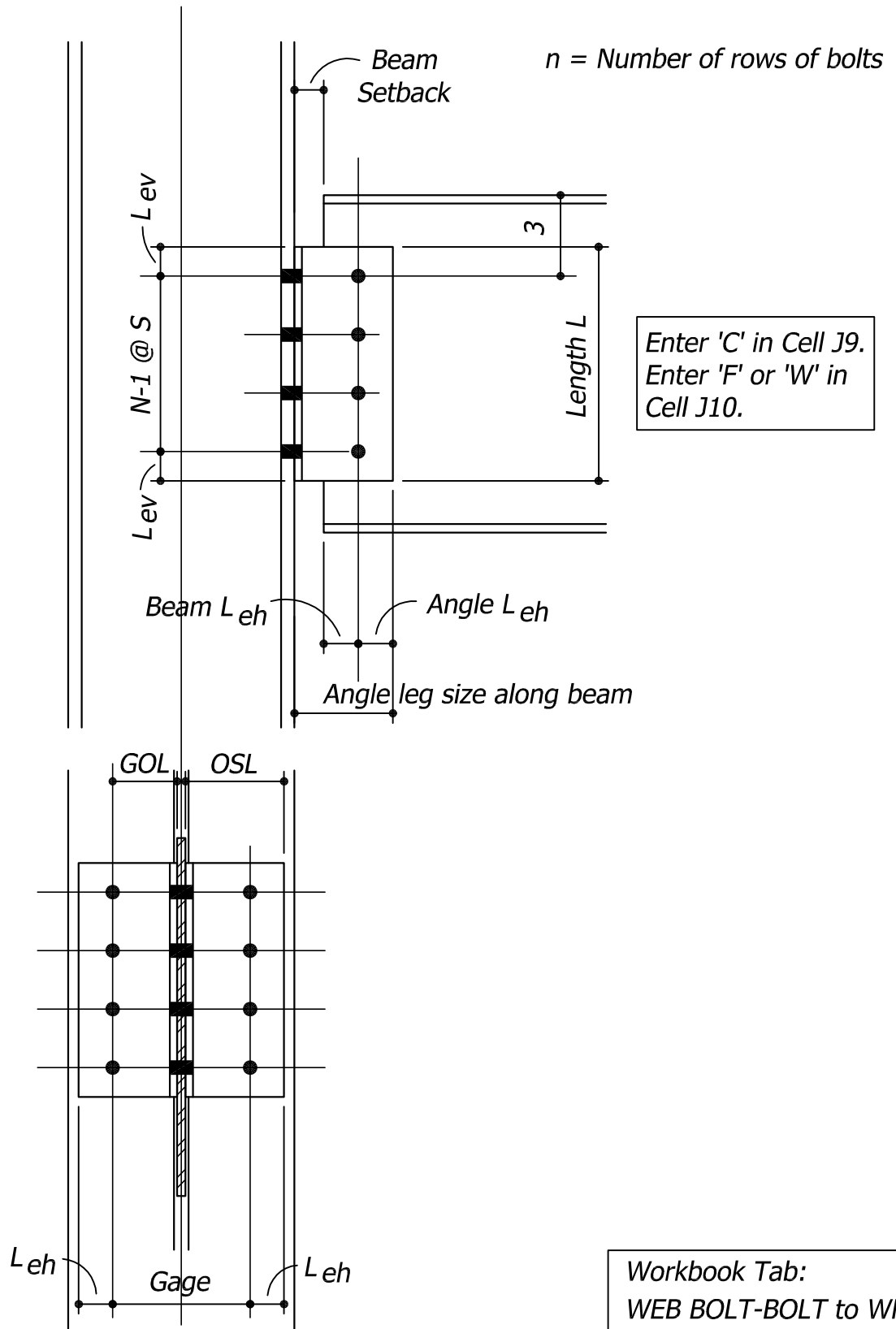
Beam $d >$ Girder d



DOUBLE ANGLE BOLTED TO BEAM,

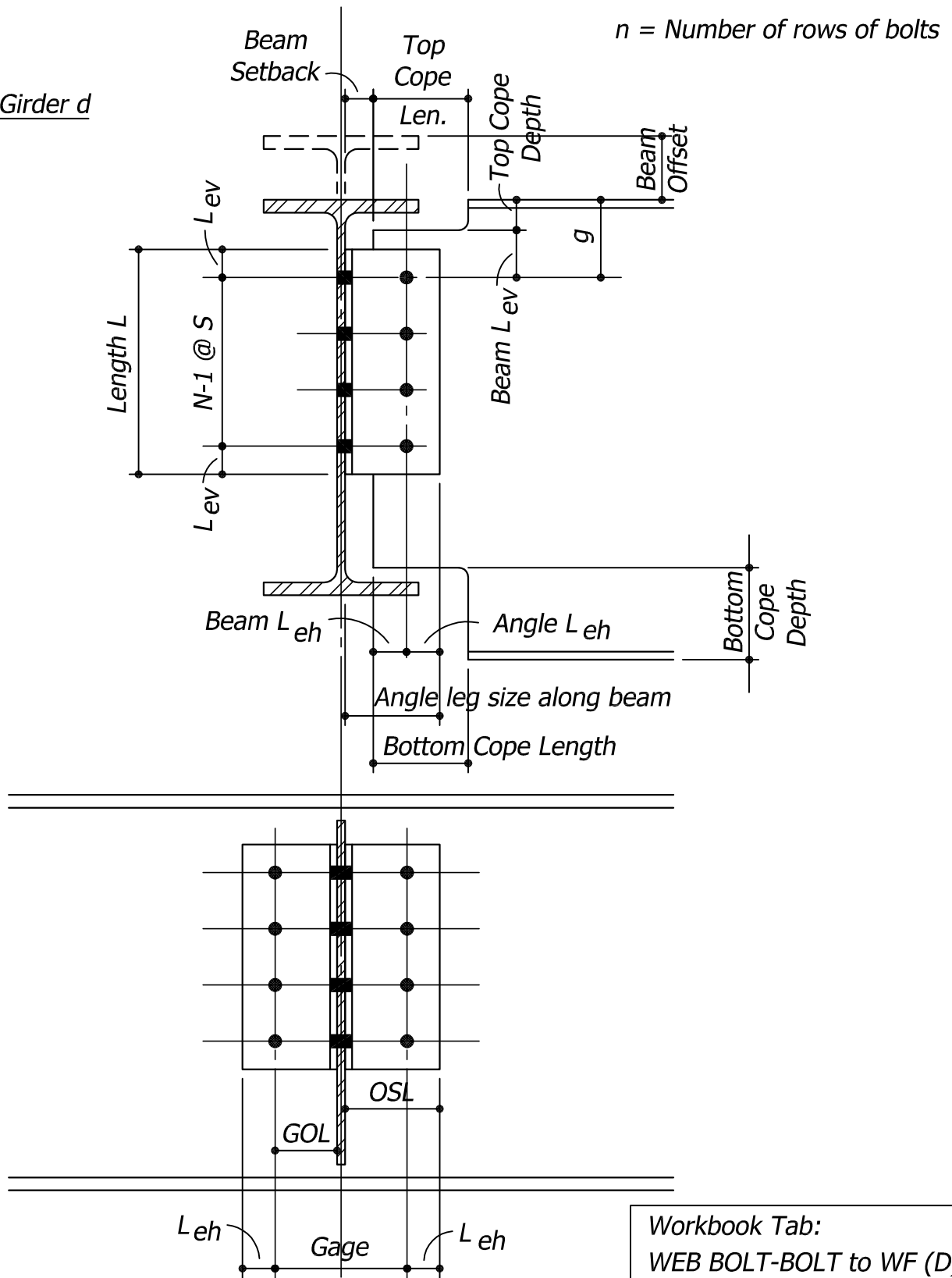
BOLTED TO SUPPORTING MEMBER

SUPPORTING MEMBER IS COLUMN FLANGE OR WEB



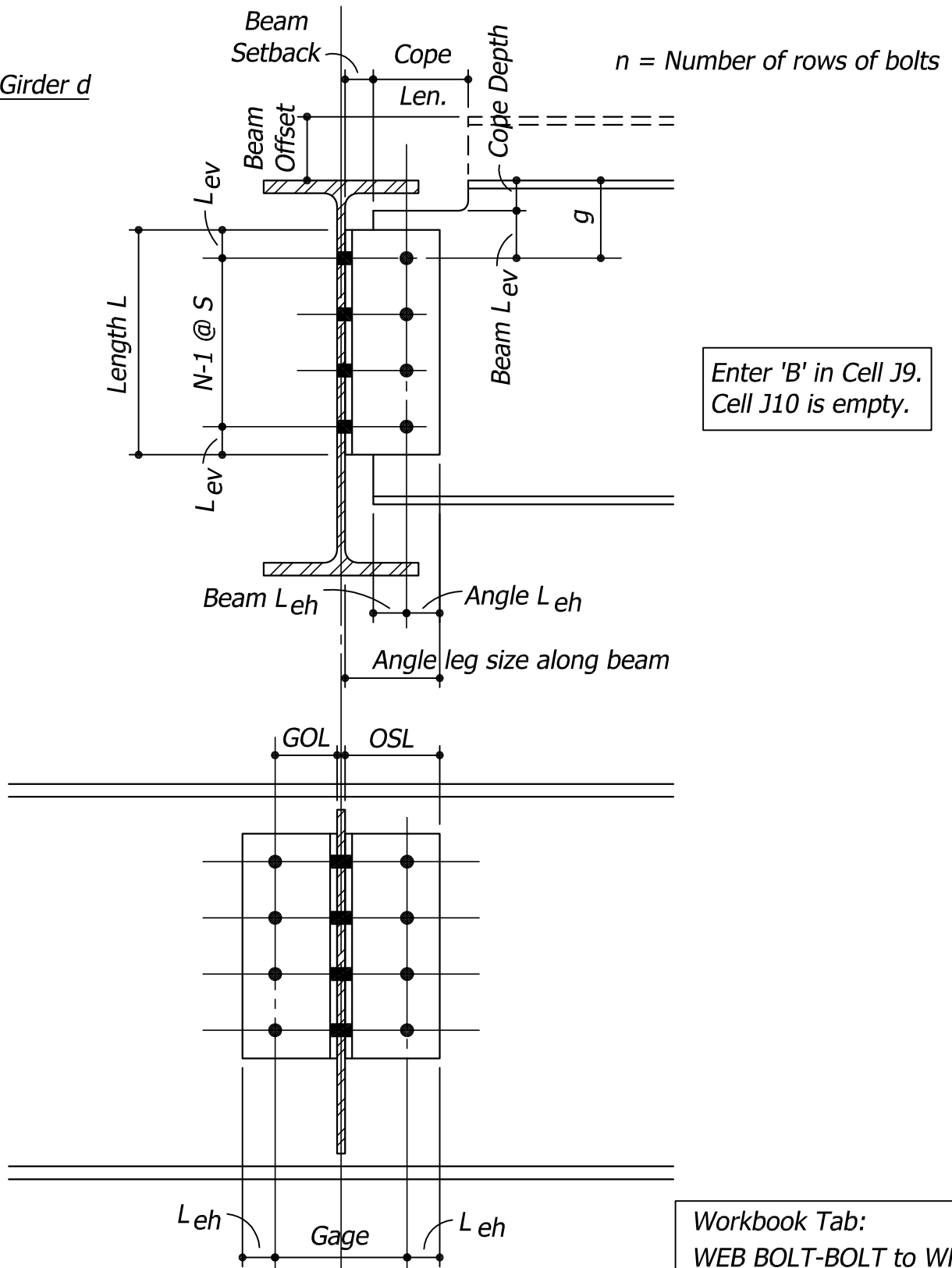
DOUBLE ANGLE BOLTED TO DEEP BEAM, BOLTED TO SUPPORTING MEMBER SUPPORTING MEMBER IS GIRDER

Beam $d >$ Girder d



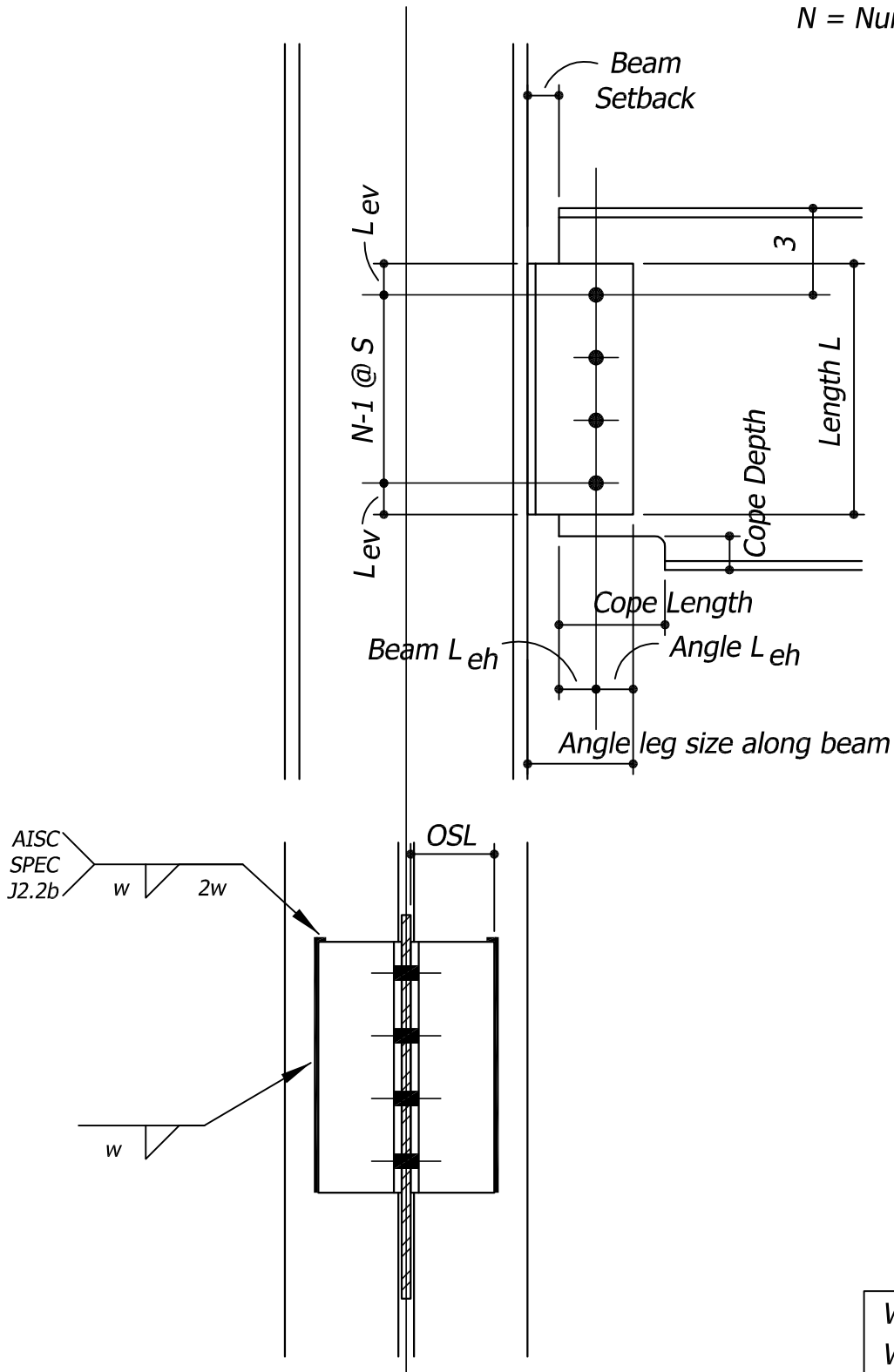
DOUBLE ANGLE BOLTED TO BEAM, BOLTED TO SUPPORTING MEMBER SUPPORTING MEMBER IS GIRDER

Beam $d <$ Girder d



DOUBLE ANGLE BOLTED TO BEAM, WELDED TO COLUMN FLANGE

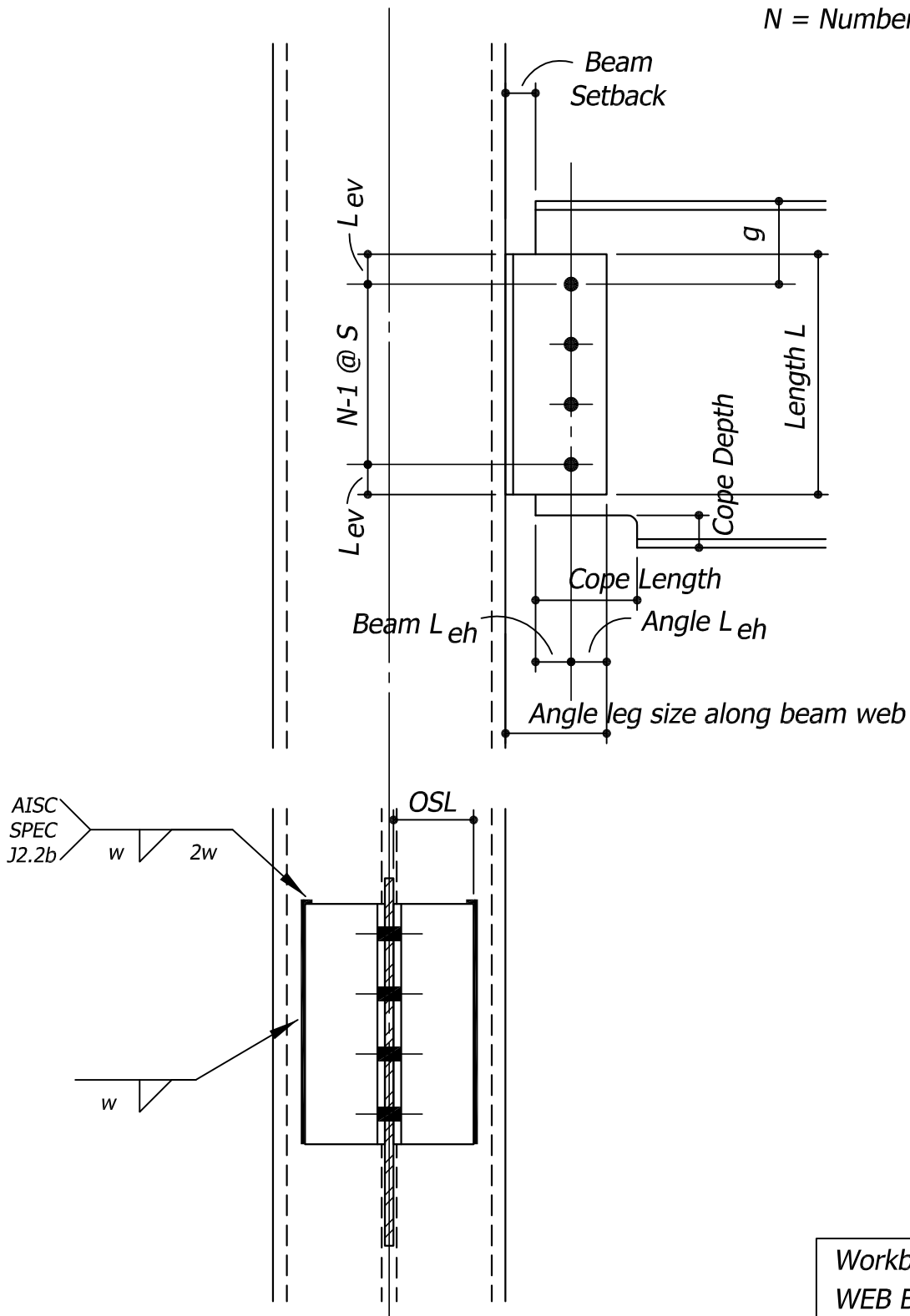
N = Number of rows of bolts



Workbook Tab:
WEB BOLT-WELD to WF

DOUBLE ANGLE BOLTED TO BEAM, WELDED TO HSS COLUMN

N = Number of rows of bolts

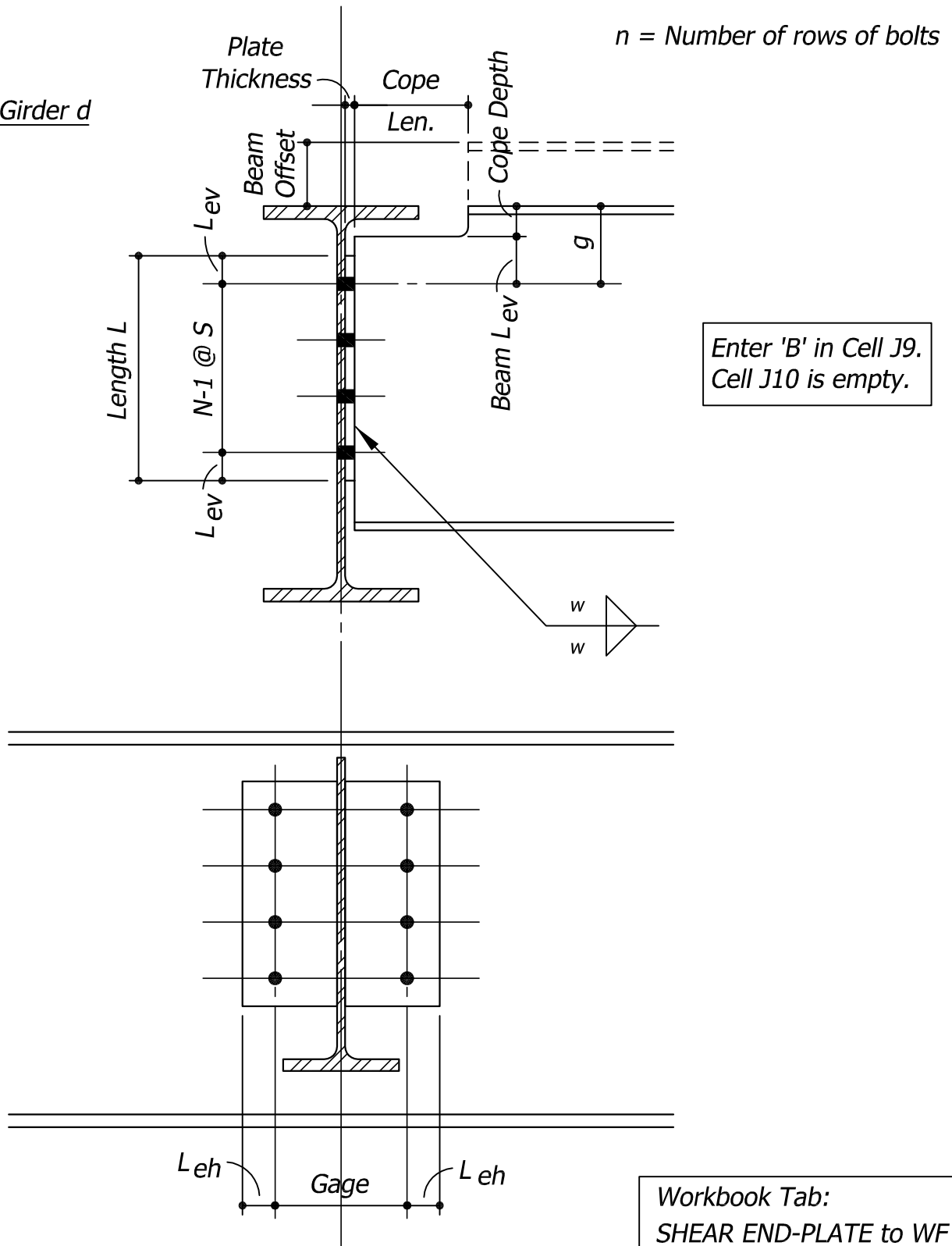


Workbook Tab:
WEB BOLT-WELD to HSS

SHEAR END-PLATE

SUPPORTING MEMBER IS GIRDER

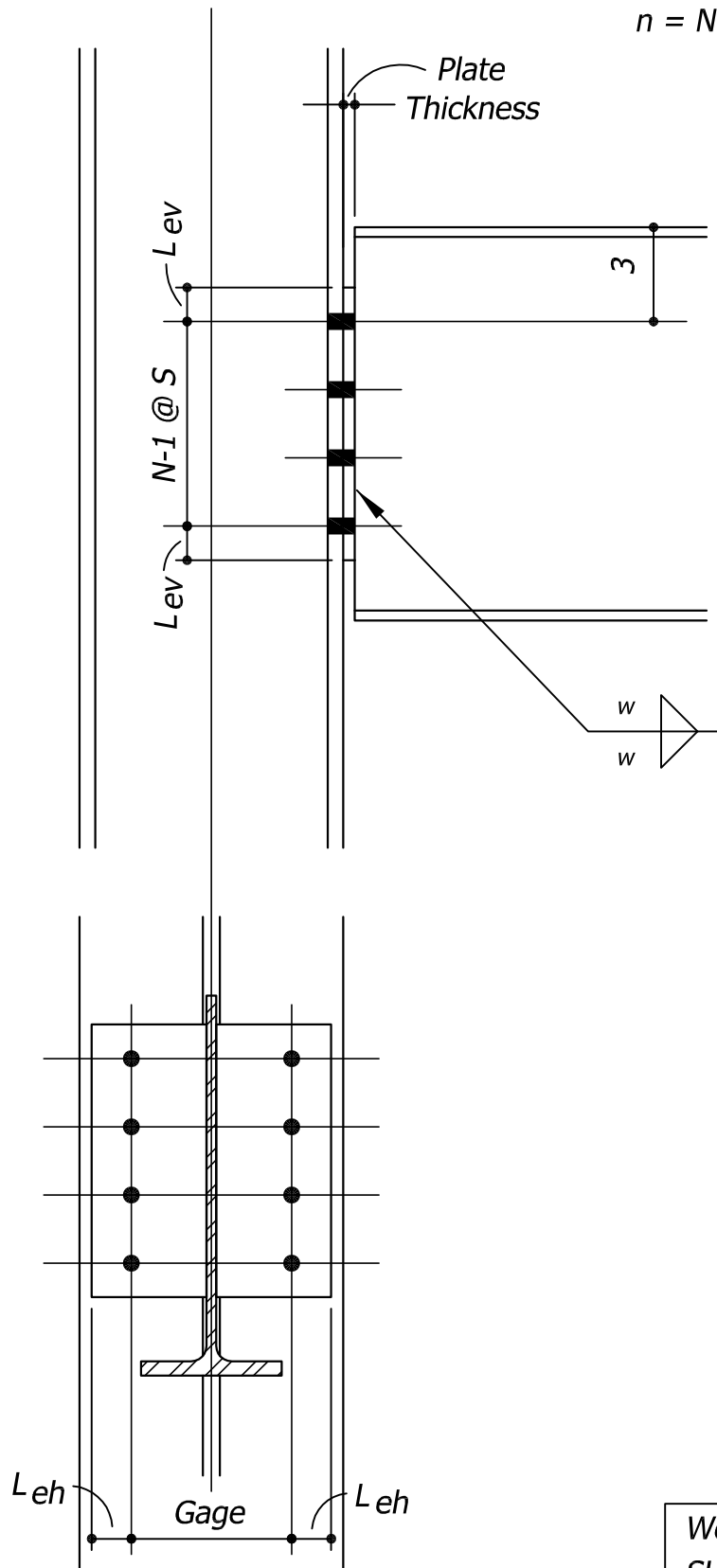
Beam $d <$ Girder d



SHEAR END-PLATE

SUPPORTING MEMBER IS COLUMN FLANGE OR WEB

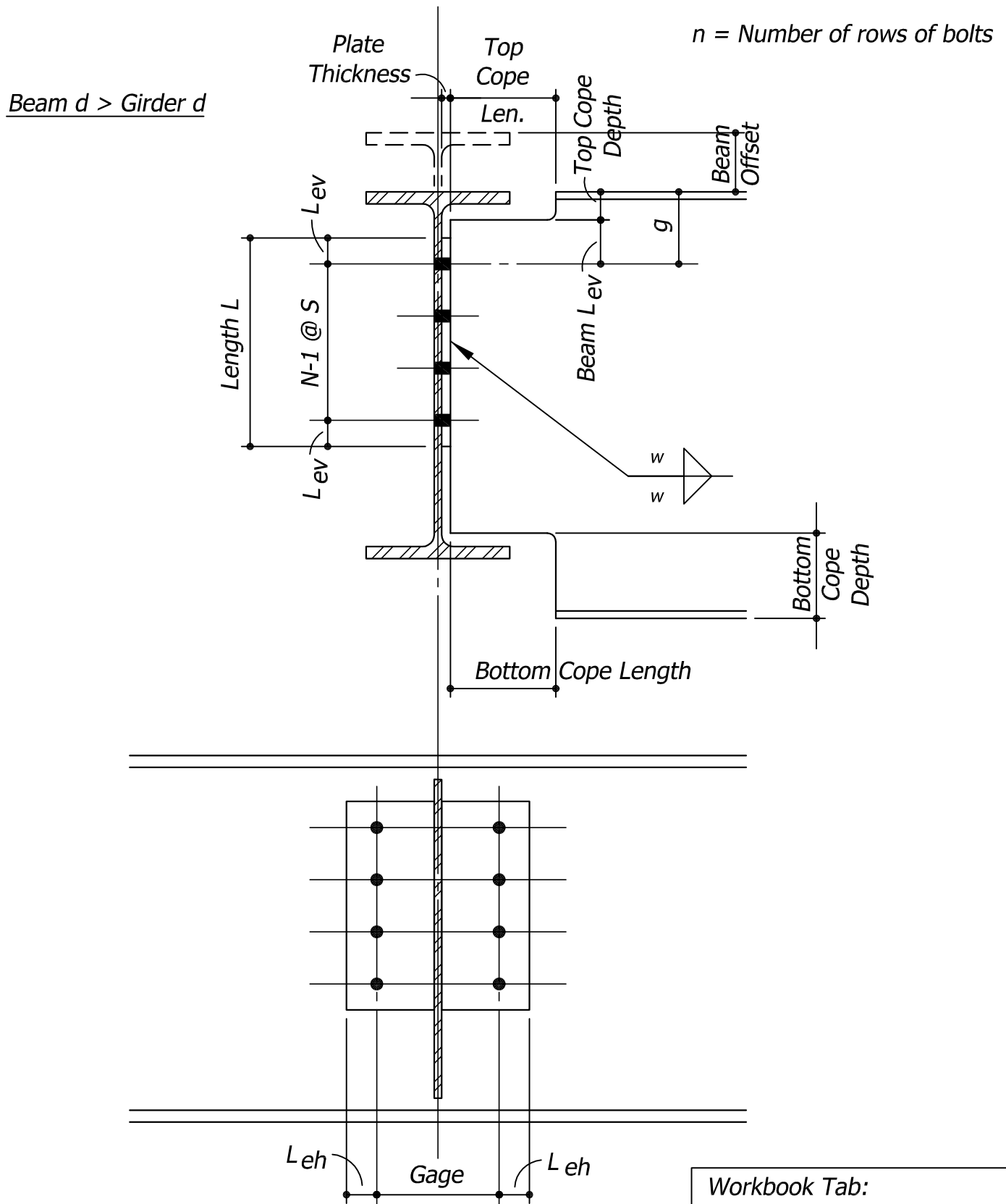
n = Number of rows of bolts



Workbook Tab:
SHEAR END-PLATE to WF

SHEAR END-PLATE TO DEEP BEAM

SUPPORTING MEMBER IS GIRDER



Workbook Tab:
SHEAR END-PLATE to WF (D)