EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO GIRDER

BEAM	PLATE THICKNESS	COLUMNS	ROW	BOLTS	WELD SIZE "A"
W8, W10	5/8"	2	2	1" Ø F2280-N	7/16
W12, W14	5/8"	2	3	1" Ø F2280-N	7/16
W16	5/8"	2	4	1" Ø F2280-N	7/16
W18, W21	5/8"	2	5	1" Ø F2280-N	7/16
W24	5/8"	2	6	1" Ø F2280-N	7/16
W27	5/8"	2	7	1" Ø F2280-N	7/16
W30	5/8"	2	8	1" Ø F2280-N	7/16

NOTES:
1. ACCEPTABLE TO SUBSTITUTE F1852-N BOLTS AT GALVANIZED EQUIPMENT PLATFORM CONNECTIONS.

EXTENEDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO COLUMN WEB

BEAM	PLATE THICKNESS	COLUMNS	ROWS	BOLTS	WELD SIZE "A"
W8	5/8"	2	2	1" Ø F2280-N	7/16
W12, W14	5/8"	2	3	1" Ø F2280-N	7/16
W16	5/8"	2	4	1" Ø F2280-N	7/16
W18, W21	5/8"	2	5	1" Ø F2280-N	7/16
W24	3/4"	2	6	1" Ø F2280-N	1/2
W27	3/4"	2	7	1" Ø F2280-N	1/2
W30	3/4"	2	8	1" Ø F2280-N	1/2
W33	3/4"	2	9	1" Ø F2280-N	1/2
W36	3/4"	2	10	1" Ø F2280-N	1/2
W40	1"	2	11	1" Ø F2280-N	5/8
W44	1"	2	12	1" Ø F2280-N	5/8

NOTES:
1. ACCEPTABLE TO SUBSTITUTE F1852-N BOLTS AT GALVANIZED EQUIPMENT PLATFORM CONNECTIONS.

EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO COLUMN FLANGE

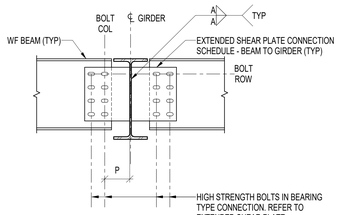
BEAM	PLATE THICKNESS	COLUMNS	ROWS	BOLTS	WELD SIZE "A"
W16	5/8"	2	4	1" Ø F2280-N	7/16
W18, W21	5/8"	2	5	1" Ø F2280-N	7/16
W24	5/8"	2	6	1" Ø F2280-N	7/16
W27	5/8"	2	7	1" Ø F2280-N	7/16
W30	5/8"	2	8	1" Ø F2280-N	7/16
W33	5/8"	2	9	1" Ø F2280-N	7/16
W36	5/8"	2	10	1" Ø F2280-N	7/16
W40	7/8"	2	11	1" Ø F2280-N	9/16
W44	7/8"	2	12	1" Ø F2280-N	9/16

NOTES:
1. SCHEDULE APPLIES TO THE FOLLOWING LOCATIONS:
   A. CONNECTIONS TO WIDE FLANGE COLUMN FLANGE.
   B. BEAM TO HSS COLUMN CONNECTIONS.
2. ACCEPTABLE TO SUBSTITUTE F1852-N BOLTS AT GALVANIZED EQUIPMENT PLATFORM CONNECTIONS.

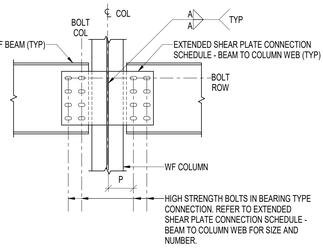
SHEAR PLATE CONNECTION SCHEDULE

BEAM SIZE	SHEAR PLATE SIZE	SHEAR PLATE LENGTH	BOLTS	# OF BOLTS
W8, W10	3/8x3 1/2	6"	1" Ø F2280-N	2
W12, W14	3/8x3 1/2	9"	1" Ø F2280-N	3
W16, W18	3/8x3 1/2	12"	1" Ø F2280-N	4
W21	3/8x3 1/2	15"	1" Ø F2280-N	5
W24	3/8x3 1/2	18"	1" Ø F2280-N	6
W27	3/8x3 1/2	21"	1" Ø F2280-N	7
W30	3/8x3 1/2	24"	1" Ø F2280-N	8
W33	3/8x3 1/2	27"	1" Ø F2280-N	9
W36	3/8x3 1/2	30"	1" Ø F2280-N	10

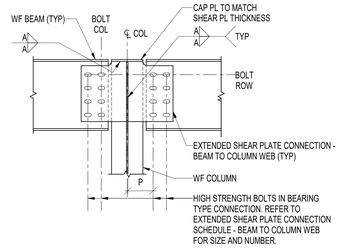
NOTES:
1. SCHEDULE APPLIES TO DETAIL 10/S05-02.
2. ACCEPTABLE TO SUBSTITUTE F1852-N BOLTS AT GALVANIZED EQUIPMENT PLATFORM CONNECTIONS.



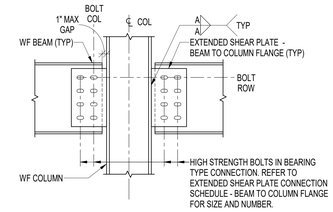
1 EXTENED SHEAR PLATE BEAM TO GIRDER CONNECTION
SCALE: NTS
NOTES:
1. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO GIRDER FOR ADDITIONAL INFORMATION.
2. P = DISTANCE FROM FACE OF SUPPORT TO CL OF FIRST BOLT COLUMN. P MAX = 9 1/2"
3. PROVIDE 3" BOLT SPACING AND 1 1/2" EDGE DISTANCE.



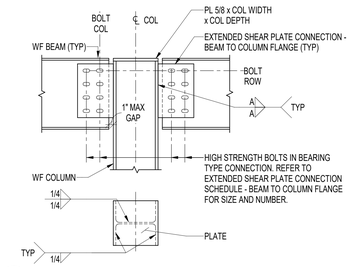
2 EXTENDED SHEAR PLATE CONNECTION BEAM TO COLUMN WEB
SCALE: NTS
NOTES:
1. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO COLUMN WEB FOR ADDITIONAL INFORMATION.
2. P = DISTANCE FROM FACE OF SUPPORT TO CL OF FIRST BOLT COLUMN. P MAX = 9 1/2"
3. PROVIDE 3" BOLT SPACING AND 1 1/2" EDGE DISTANCE.



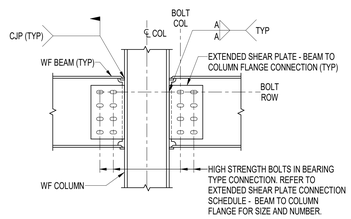
3 EXTENDED SHEAR PLATE CONNECTION BEAM TO COLUMN WEB
SCALE: NTS
NOTES:
1. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO COLUMN WEB FOR ADDITIONAL INFORMATION.
2. P = DISTANCE FROM FACE OF SUPPORT TO CL OF FIRST BOLT COLUMN. P MAX = 9 1/2"
3. PROVIDE 3" BOLT SPACING AND 1 1/2" EDGE DISTANCE.



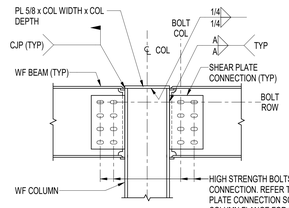
4 EXTENDED SHEAR PLATE BEAM TO COLUMN FLANGE CONNECTION
SCALE: NTS
NOTES:
1. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO COLUMN FLANGE FOR MORE INFORMATION.
2. PROVIDE 3" BOLT SPACING AND 1 1/2" EDGE DISTANCE.



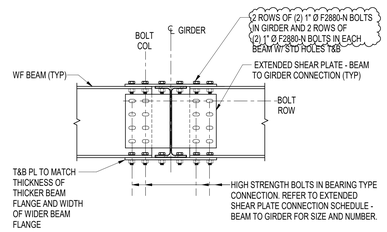
5 EXTENDED SHEAR PLATE BEAM TO COLUMN FLANGE CONNECTION
SCALE: NTS
NOTES:
1. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO COLUMN FLANGE FOR MORE INFORMATION.
2. PROVIDE 3" BOLT SPACING AND 1 1/2" EDGE DISTANCE.



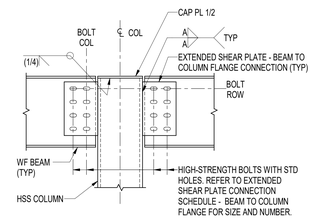
6 EXTENDED SHEAR PLATE BEAM TO COLUMN FLANGE MOMENT CONNECTION
SCALE: NTS
NOTES:
1. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO COLUMN FLANGE FOR ADDITIONAL INFORMATION.



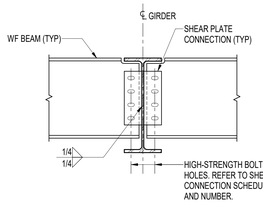
7 EXTENDED SHEAR PLATE BEAM TO COLUMN FLANGE MOMENT CONNECTION
SCALE: NTS
NOTES:
1. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO COLUMN FLANGE FOR ADDITIONAL INFORMATION.



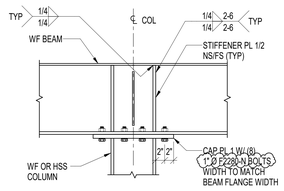
8 EXTENDED SHEAR PLATE BEAM TO GIRDER MOMENT CONNECTION
SCALE: NTS
NOTES:
1. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO GIRDER FOR ADDITIONAL INFORMATION.
2. PROVIDE DECK SUPPORT ANGLES AS REQUIRED.



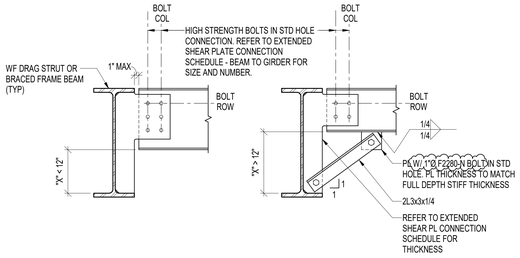
9 EXTENDED SHEAR PLATE BEAM TO HSS COLUMN CONNECTION
SCALE: NTS
NOTES:
1. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE - BEAM TO COLUMN FLANGE FOR ADDITIONAL INFORMATION.
2. PROVIDE 3" BOLT SPACING AND 1 1/2" EDGE DISTANCE.



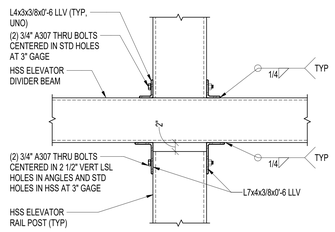
10 BEAM TO GIRDER SHEAR PLATE CONNECTION DETAIL
SCALE: NTS
NOTES:
1. SEE SHEAR PLATE CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
2. PROVIDE 3" BOLT SPACING AND 1 1/2" EDGE DISTANCE.



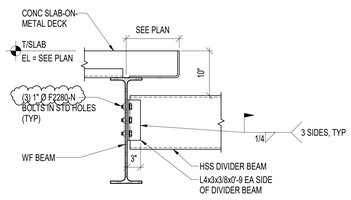
11 TYPICAL CONTINUOUS BEAM OVER COLUMN DETAIL
SCALE: NTS



12 BEAM BRACING DETAIL
SCALE: NTS
NOTES:
1. X = DISTANCE FROM TOP OF BEAM FLANGE TO BOTTOM OF PERPENDICULAR BEAM
2. SEE EXTENDED SHEAR PLATE CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.



13 ELEVATOR RAIL SUPPORT TO DIVIDER BEAM CONNECTION DETAIL
SCALE: NTS



14 HSS DIVIDER BEAM TO WF BEAM
SCALE: NTS
NOTES:
1. FOR DECK OVERHANG DETAILS NOT SHOWN, REFER TO DETAIL
2. ELEVATION OF HSS DIVIDER BEAM TO BE COORDINATED WITH THE ELEVATOR MANUFACTURER.

serverfarm
CORGAN
TGRWA STRUCTURAL ENGINEERS
kW Mission Critical Engineering Member of WSP
EP ENGINEERING PLUS
Kimley»Horn

ISSUES

1		
2		
3	12/17/2025	STEEL MILL ORDER
4	01/23/2026	DESIGN DEVELOPMENT
5		
6		
7		
8		
9		
10		
11		
12		
13		

REVISIONS

NOT FOR CONSTRUCTION

This document is incomplete and may not be used for regulatory approval, permit or construction.
Date of issue:
01/23/2026

SF - ARK01
DESIGN DEVELOPMENT
CLARKSVILLE, AR 72830

STEEL CONNECTION DETAILS

JOB 25131
SHEET
S05-02

1/22/2026 4:22:59 PM S05-02 STEEL CONNECTION DETAILS