

Standard Shear Tab:
(Beam / Column Connection) (Beam / Beam Connection)

N (rows)	ASD Load (Kips)	Plate
2	16.3	1/4"
3	25.6	1/4"
4	34.8	1/4"
5	53.0	3/8"
6	63.6	3/8"
7	74.2	3/8"
8	84.8	3/8"
9	95.4	3/8"
10	103.0	3/8"

Standard Single Clip Angle: L4"x3"x3/8"
(welded column / bolted beam) (welded beam / bolted beam)

N (rows)	ASD Load (Kips)	Min. Weld
2	21.2	1/4"
3	31.8	1/4"
4	42.4	1/4"
5	53.0	1/4"
6	63.6	1/4"
7	74.2	1/4"
8	84.8	1/4"
9	95.4	1/4"
10	106.0	1/4"

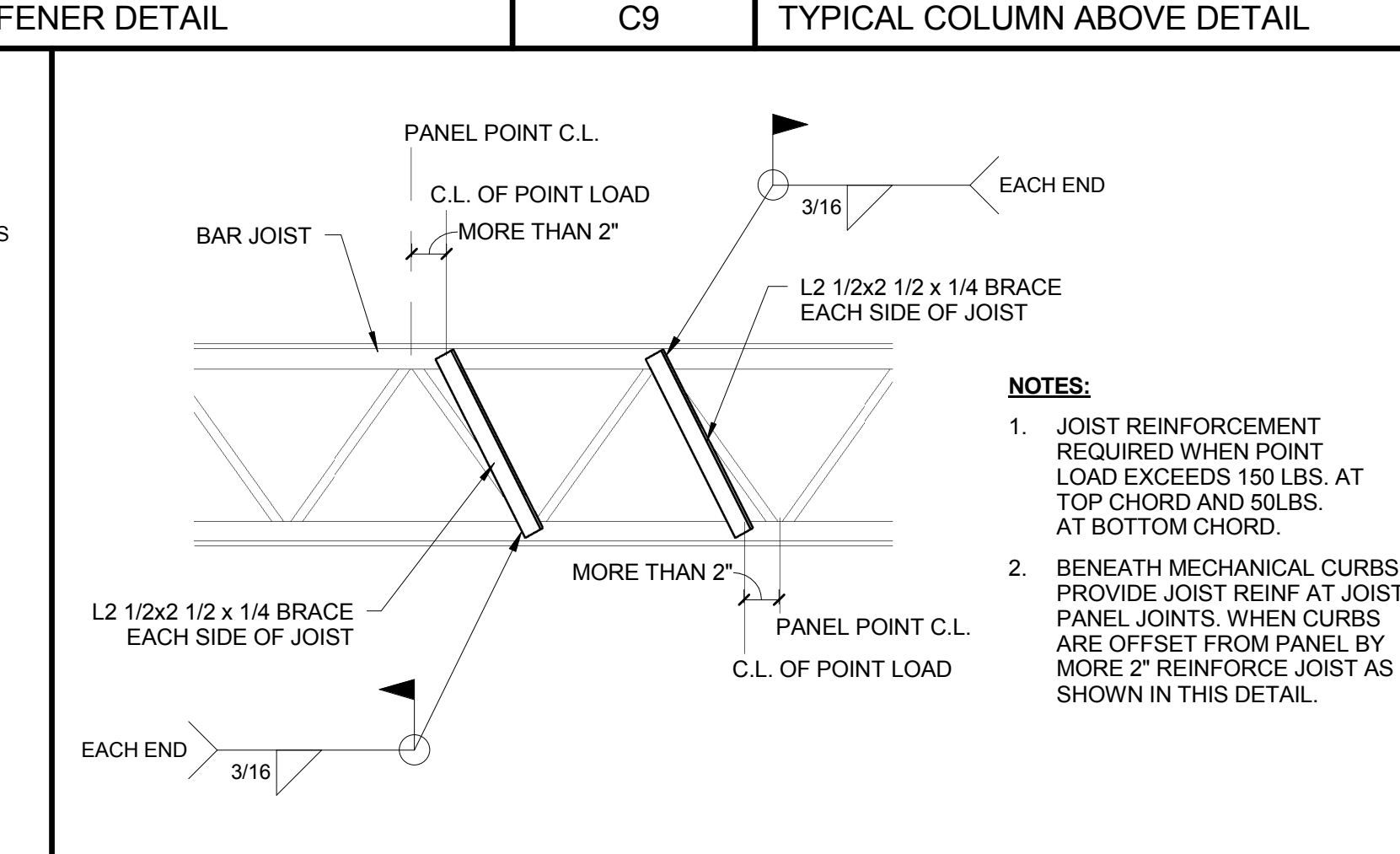
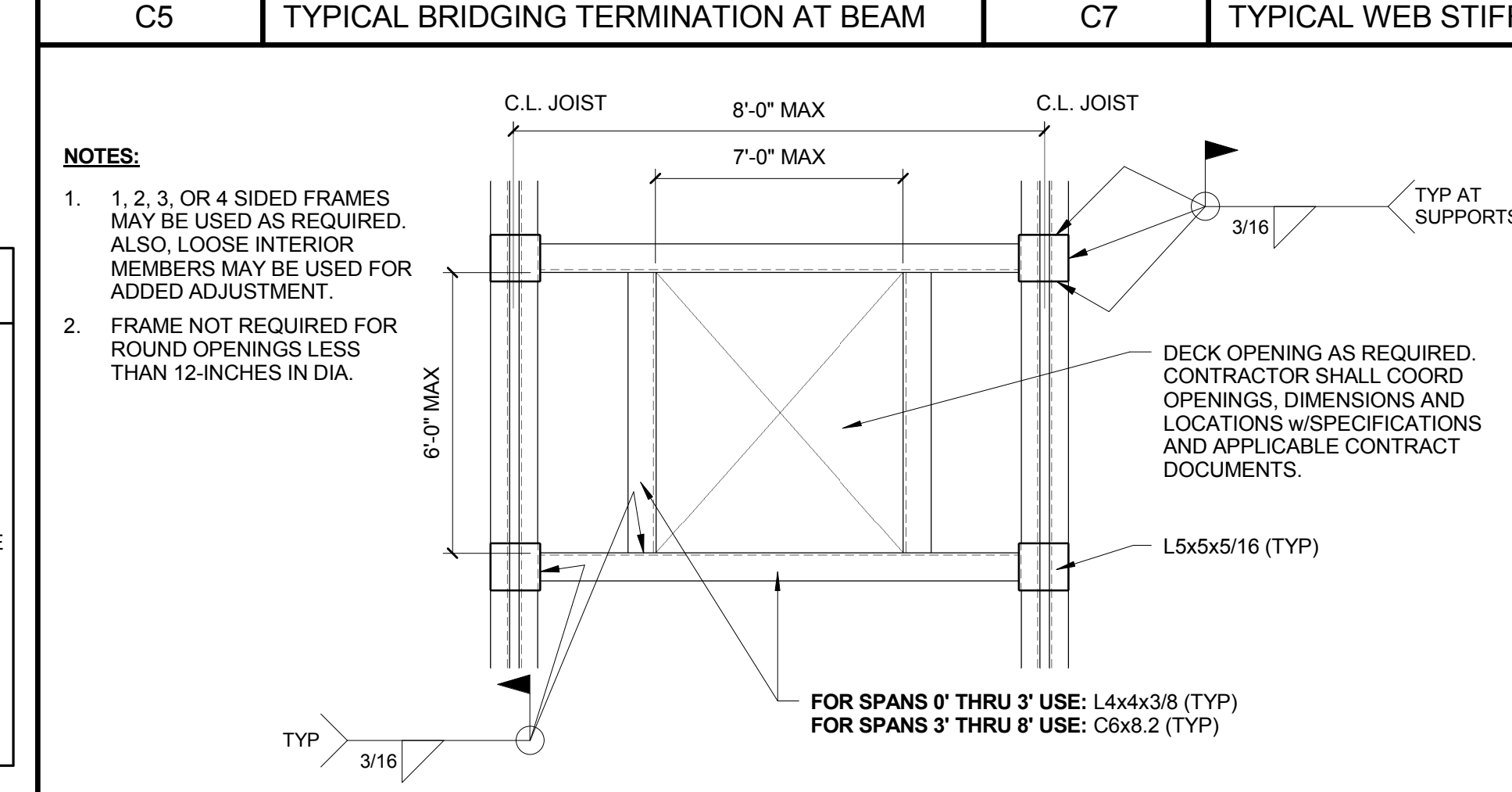
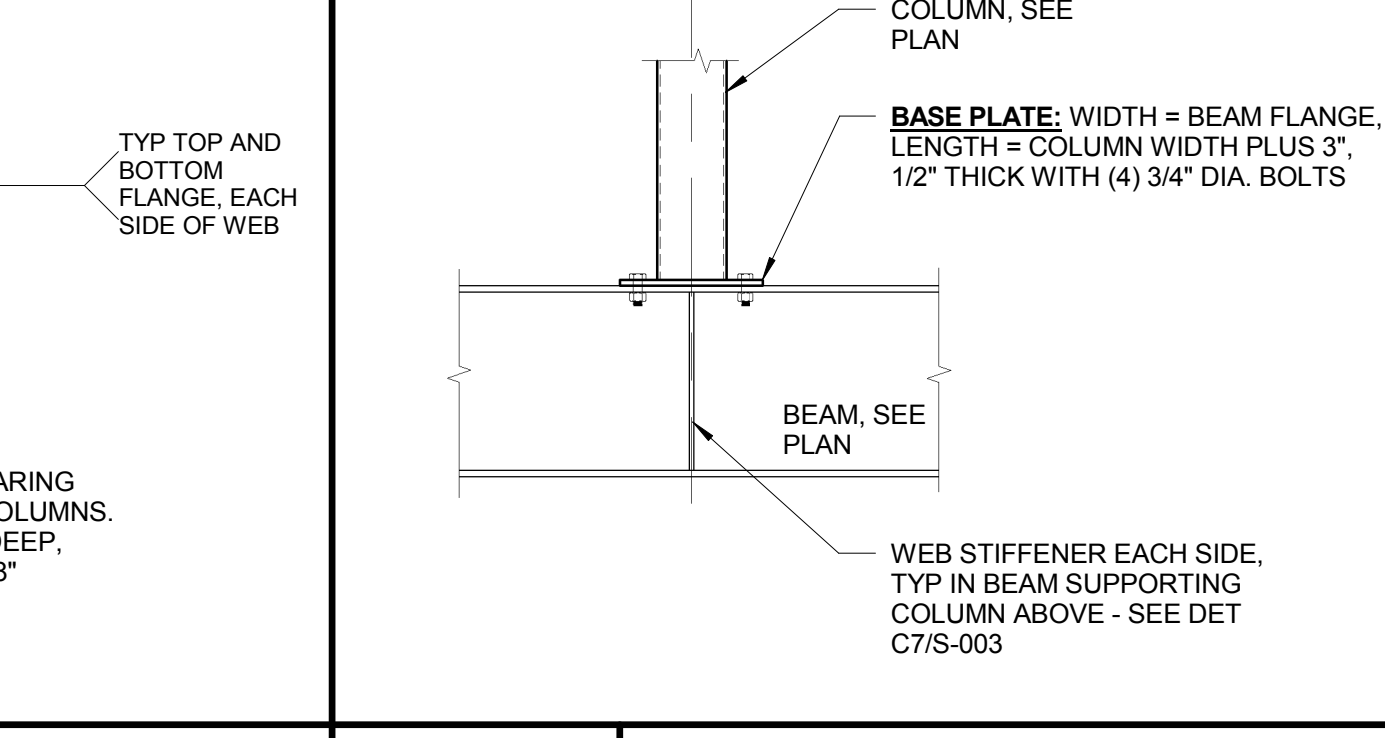
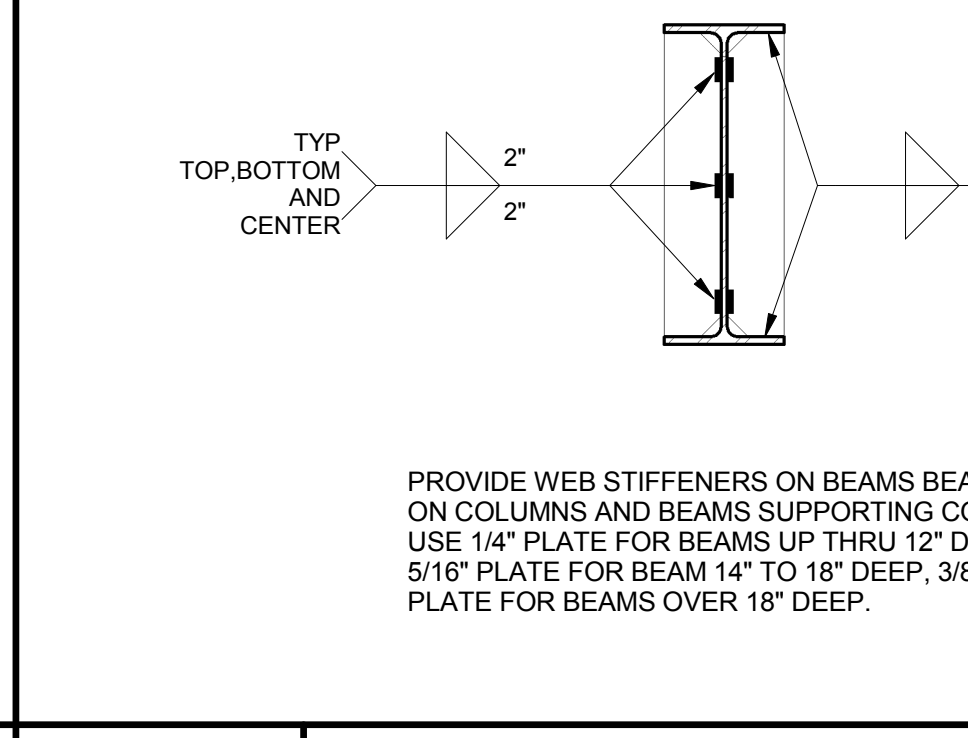
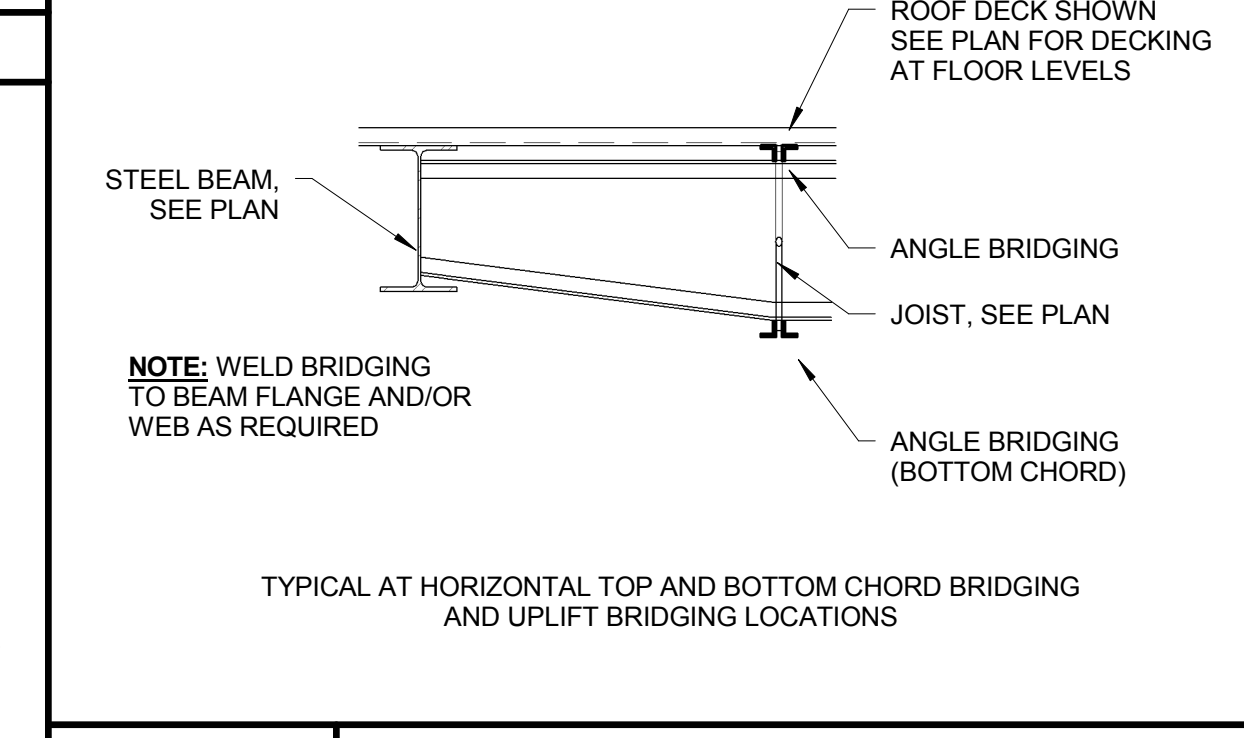
Standard Double Clip Angles (2) Beam / Beam Connection
(welded to supported beam / bolted to supporting beam)

N (rows)	ASD Load (Kips)	Min. Weld
2	50.2	3/16"
3	73.4	3/16"
4	94.9	3/16"
5	115.0	3/16"
6	134.0	3/16"
7	152.0	3/16"
8	169.0	3/16"
9	186.0	3/16"
10	202.0	3/16"

CONNECTION SCHEDULE

BEAM	N	L	T	D	S	CAPACITY (KIP)
W8	2	6"	1/4"	1"	3"	16.3
W10	2	6"	1/4"	1 1/2"	3"	16.3
W12	3	9"	1/4"	1 1/2"	3"	25.6
W14	4	11 1/2"	3/8"	1 1/2"	3"	42.4
W16	4	12"	3/8"	1 1/2"	3"	42.4
W18	5	15"	3/8"	1 1/2"	3"	53.0
W21	6	18"	3/8"	1 1/2"	3"	63.6
W24	7	20 1/2"	3/8"	1 1/2"	3"	74.2

NOTES:
1. BOLTS SHALL BE 3/4" DIA. A325N (U.N.O.)
2. N = NUMBER OF BOLTS
3. L = LENGTH OF PLATE
4. T = THICKNESS OF PLATE
5. D = DEPTH OF PLATE FROM TOP FLANGE OF BEAM
6. S = BOLT SPACING
7. SIMILAR AT CHANNEL SECTIONS OF SAME DEPTH



160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

Allied Engineering
Structural Mechanical Electrical Commissioning

SEAL OF MAINE
WILLIAM W. WALKER
REGISTERED PROFESSIONAL ENGINEER
NO. 10179
EXPIRES 12/31/2015

GRANT HAYS ASSOCIATES
ARCHITECTURE & INTERIOR DESIGN
P.O. BOX 6179 FALMOUTH MAINE, 04103
207.871.9900 gha@granthays.com

Date: 01-27-2016
Drawn By: PED
Checked By: JPM
Project Mgr: WPF
Project No.: 15028
Card No.: 15028S.rvt
Graphic Scale: 0"

STRUCTURAL - TYPICAL DETAILS

NFA NORTHEAST AIR
PORTLAND INTERNATIONAL AIRPORT
1011 WESTBROOK STREET PORTLAND, MAINE 04102
© COPYRIGHT 2015 ALLIED ENGINEERING, INC.

S-003