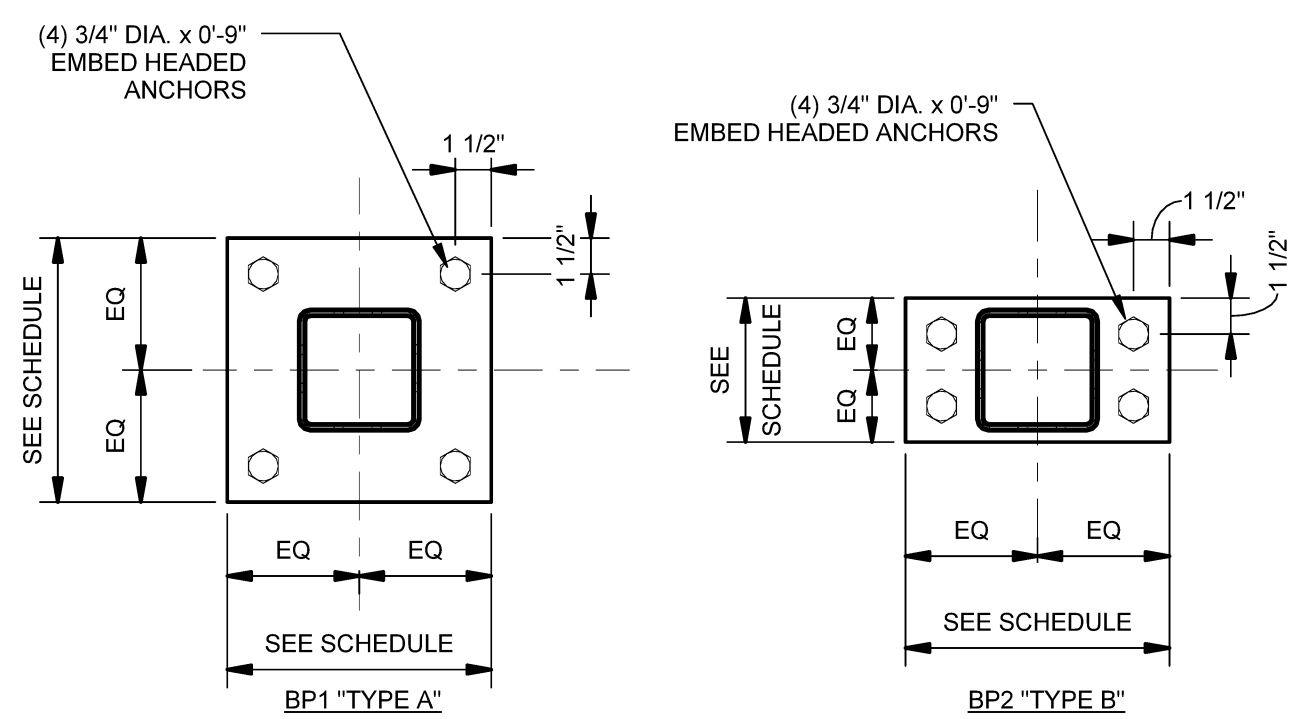
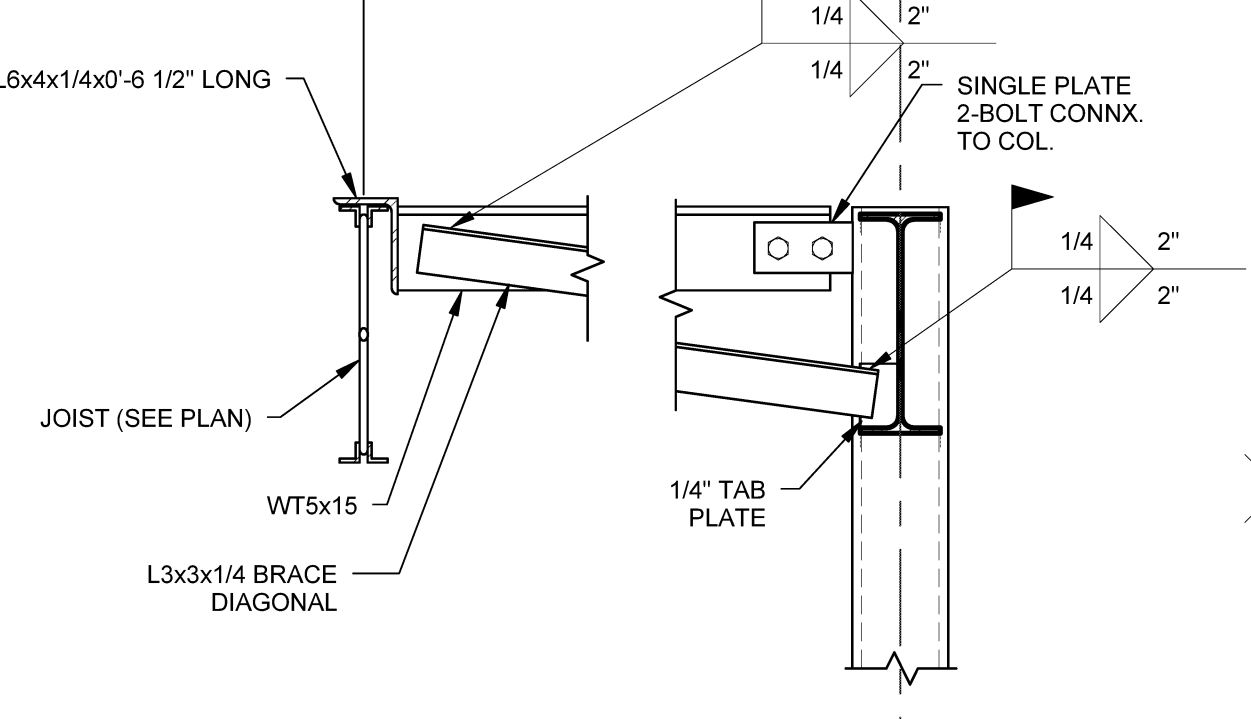


STEEL COLUMN SCHEDULE

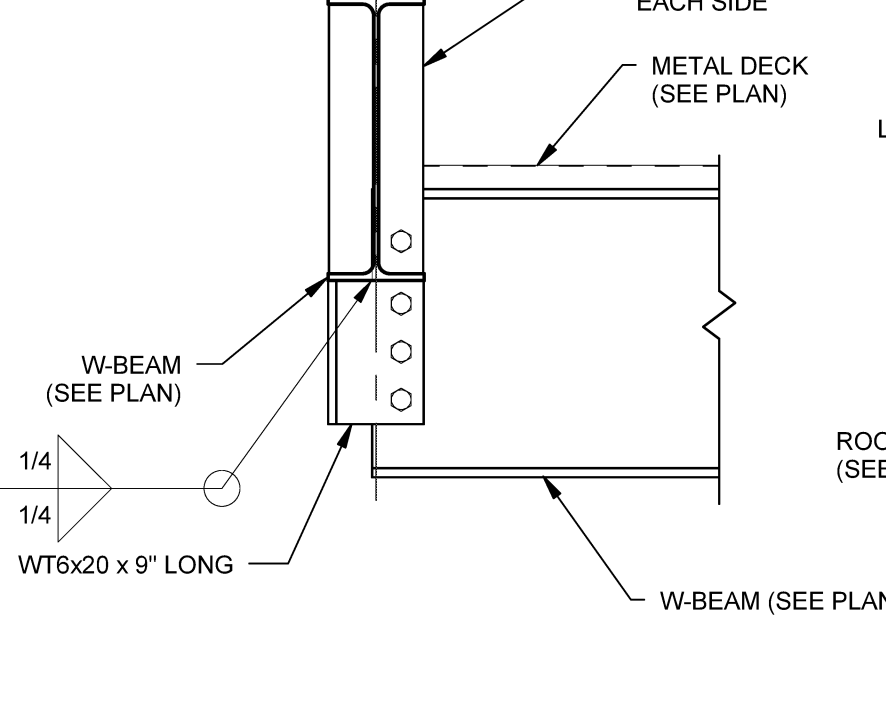
LOCATION	TYPE	BASE PLATE	SHEAR LUG
A-7	HSS4x4x1/4	BP4	-
A-9	HSS6x6x1/2	BP10	TYPE 1
A-9-B	HSS6x6x1/2	BP9	-
A-11	HSS6x6x1/2	BP9	-
A-5-11	HSS8x8x5/8	BP10	-
A-9-13	HSS6x6x1/2	BP6	-
AA-3A	HSS4x4x1/4	BP4	-
AA-4A	HSS4x4x1/4	BP4	-
AA-5A	HSS4x4x1/4	BP4	-
AA-6A	HSS4x4x1/4	BP4	-
AA-7A	HSS4x4x1/4	BP4	-
BF	HSS6x6x1/2	BP9	-
B-8-6	HSS6x6x1/2	BP9	-
B-10	HSS6x6x1/2	BP6	-
B-11	HSS6x6x1/2	BP3	-
B-4-7	HSS6x6x1/2	BP3	-
B-5-11	HSS6x6x1/2	BP3	-
BB-3A	HSS6x6x1/2	BP3	-
BB-5A	HSS6x6x1/2	BP3	-
BB-7A	HSS6x6x1/2	BP3	-
BB-8A	HSS4x4x1/4	BP4	-
BB-9A	HSS4x4x1/4	BP4	-
BB-10A	HSS5x5x5/16	BP10	TYPE 1
C-7	HSS5x5x1/4	BP2	-
C-9	HSS6x6x1/2	BP7	TYPE 1
C-9-2	HSS4x4x1/4	BP4	-
C-9-7	HSS6x6x1/2	BP3	-
CC-10A	HSS5x5x1/4	BP11	TYPE 3
D-1	HSS4x4x1/4	BP4	-
D-1-B	HSS4x4x1/4	BP10	TYPE 1
D-2	HSS6x6x1/2	BP3	-
DD-3A	HSS6x6x1/2	BP6	-
DD-5A	HSS6x6x1/2	BP7	TYPE 1
DD-7A	HSS6x6x1/2	BP6	-
E-7	HSS4x4x1/4	BP4	-
E-9	HSS5x5x1/4	BP7	TYPE 1
E-10	HSS5x5x1/4	BP7	TYPE 1
E-11	HSS4x4x1/4	BP4	-
F-0.5	HSS4x4x1/4	BP4	-
F-1	HSS6x6x1/2	BP3	-
F-2	HSS5x5x1/4	BP2	-
F-3-0.5	HSS4x4x1/4	BP4	-
G-9	HSS6x6x1/2	BP10	TYPE 1
G-9-B	HSS6x6x3/8	BP6	-
G-10-1	HSS6x6x3/8	BP7	TYPE 1
G-10-6	HSS4x4x1/4	BP1	-
G-11A	HSS6x6x3/8	BP10	TYPE 1
G-12	HSS7x7x3/8	BP16	TYPE 1
G-2-0.5	HSS4x4x1/4	BP4	-
G-5-10.6	HSS4x4x1/4	BP1	-
G-6-10.3	HSS4x4x1/4	BP4	-
H-1	HSS6x6x1/2	BP3	-
H-2	HSS6x6x1/2	BP6	-
H-8-0.5	HSS4x4x1/4	BP4	-
J-12	HSS7x7x1/2	BP12	TYPE 1
J-8-0.5	HSS4x4x1/4	BP4	-
K-3	HSS5x5x1/4	BP5	-
K-4	HSS6x6x1/2	BP9	TYPE 2
K-5	HSS6x6x1/2	BP6	-
K-6	HSS4x4x1/4	BP4	-
K-8	HSS6x6x3/8	BP6	-
L-0.5	HSS4x4x1/4	BP4	-
L-1	HSS6x6x1/2	BP10	TYPE 1
L-2	HSS5x5x1/4	BP6	-
L-1-12	HSS8x8x5/8	BP15	-
M-8	HSS6x6x3/8	BP6	TYPE 2
N-12	HSS7x7x1/2	BP13	-
P-1	HSS5x5x1/4	BP5	-
P-1-6	HSS4x4x1/4	BP10	TYPE 1
P-2	HSS5x5x1/4	BP5	-
P-2-4	HSS5x5x1/4	BP5	-
P-3	HSS6x6x1/2	BP3	-
P-4	HSS6x6x1/2	BP10	TYPE 1
P-5	HSS5x5x1/4	BP2	-
Q-5	HSS4x4x1/4	BP4	-
Q-6	HSS5x5x1/4	BP2	-
Q-8	HSS6x6x3/8	BP10	TYPE 1
R-8	HSS7x7x3/8	BP13	-
R-8-2	HSS7x7x5/8	BP13	-
R-9-6	HSS6x6x5/8	BP15	-
R-10-2	HSS7x7x5/8	BP13	-
R-12	HSS7x7x1/2	BP14	-



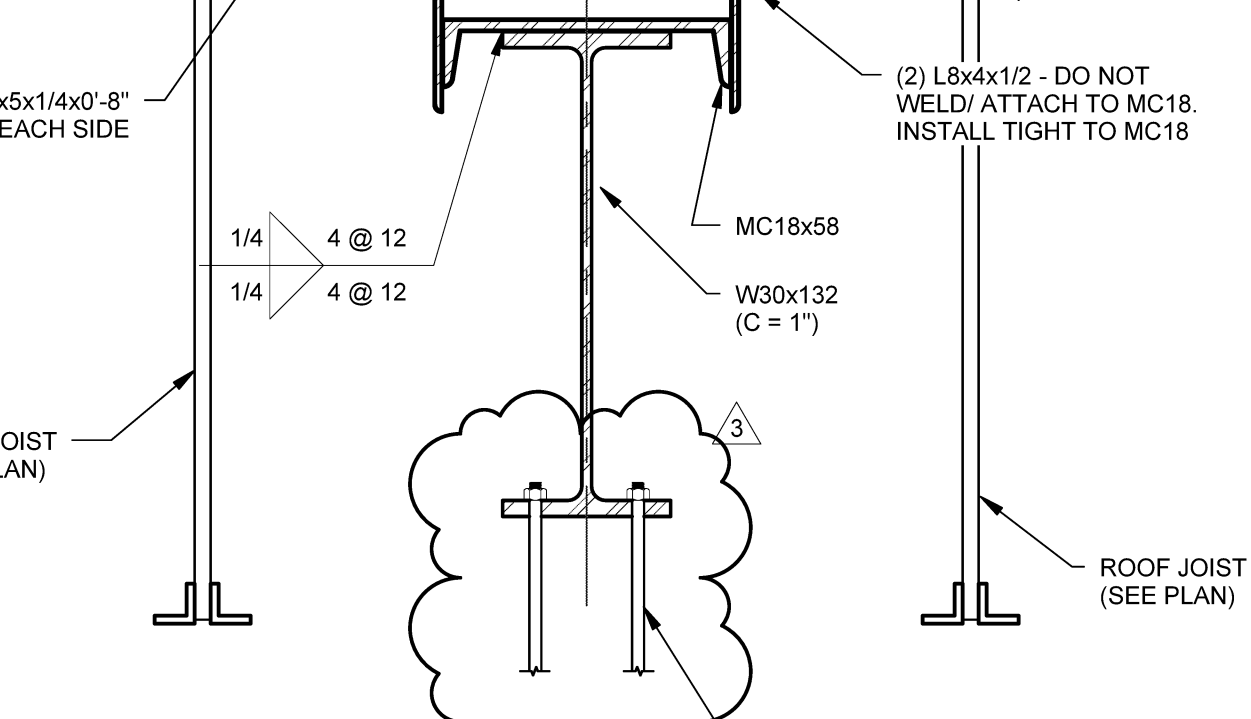
E2 BASE PLATE LAYOUT
SCALE: 1 1/2" = 1'-0"



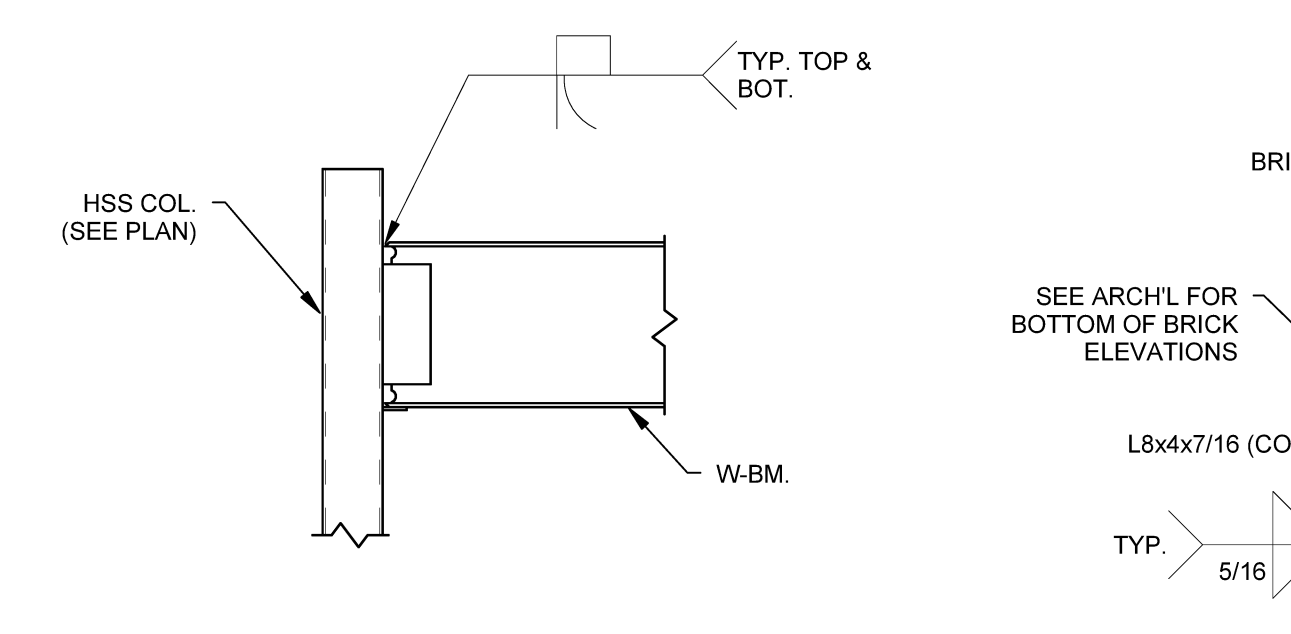
E3 SECTION
SCALE: 1" = 1'-0"



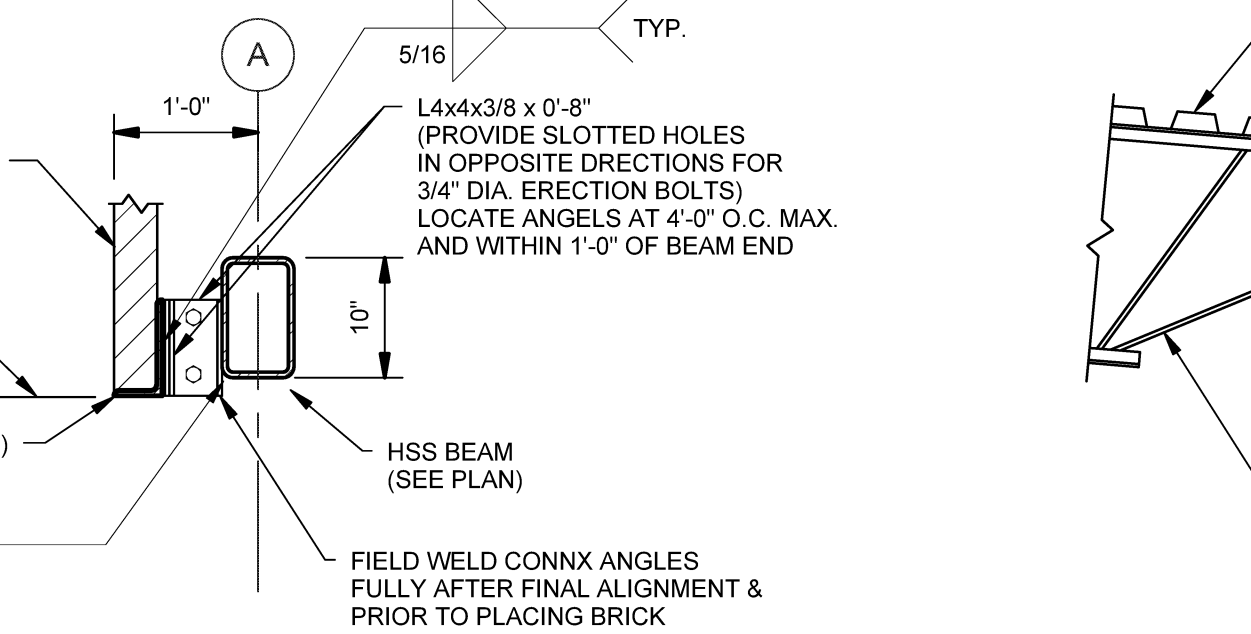
E5 SECTION
SCALE: 1" = 1'-0"



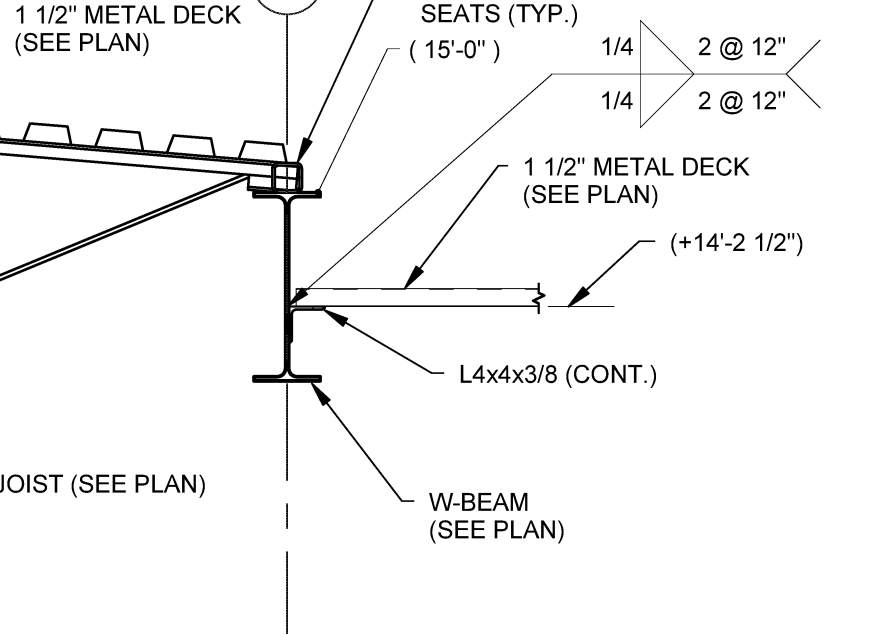
E6 SECTION AT OPERABLE PARTITION SUPPORT
SCALE: 1" = 1'-0"



D2 MOMENT CONN. DETAIL
SCALE: 3/4" = 1'-0"



D3 SECTION
SCALE: 3/4" = 1'-0"



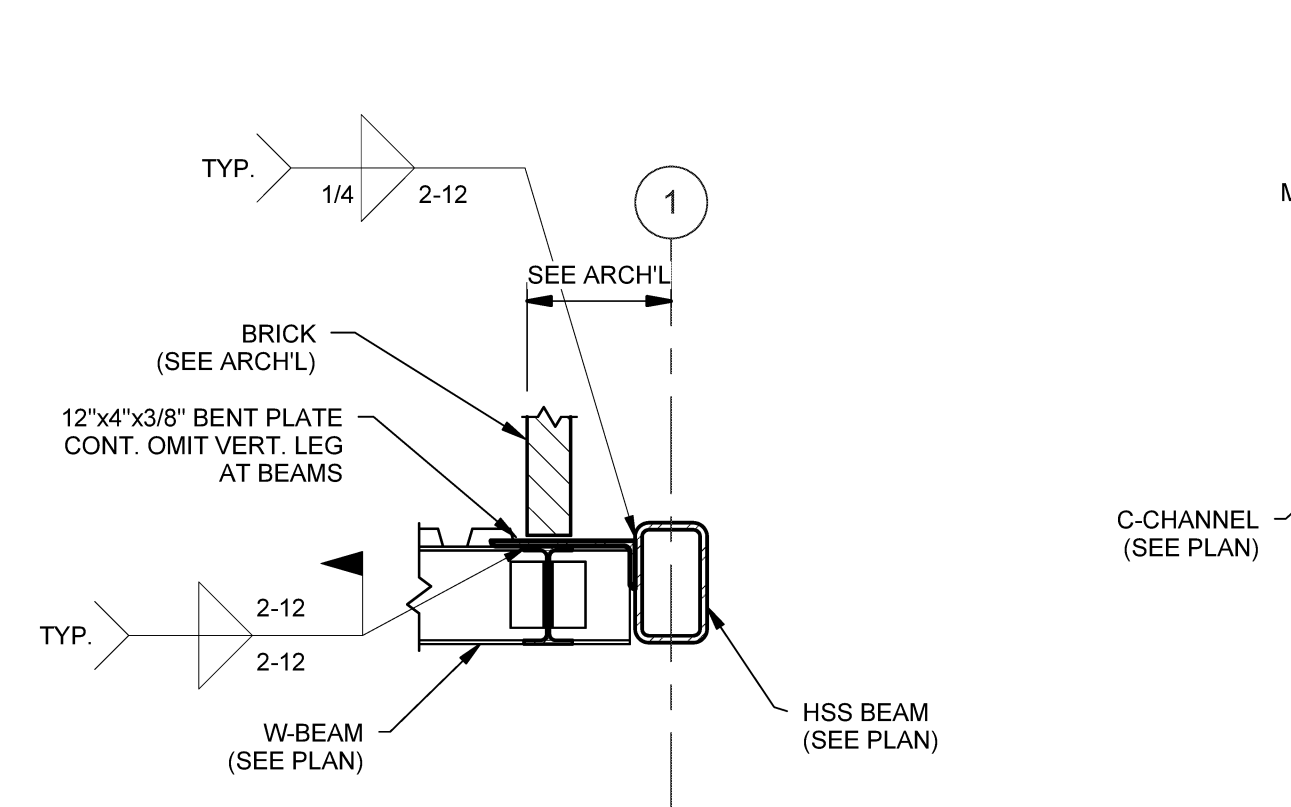
D4 SECTION
SCALE: 3/4" = 1'-0"

E6 SECTION AT OPERABLE PARTITION SUPPORT

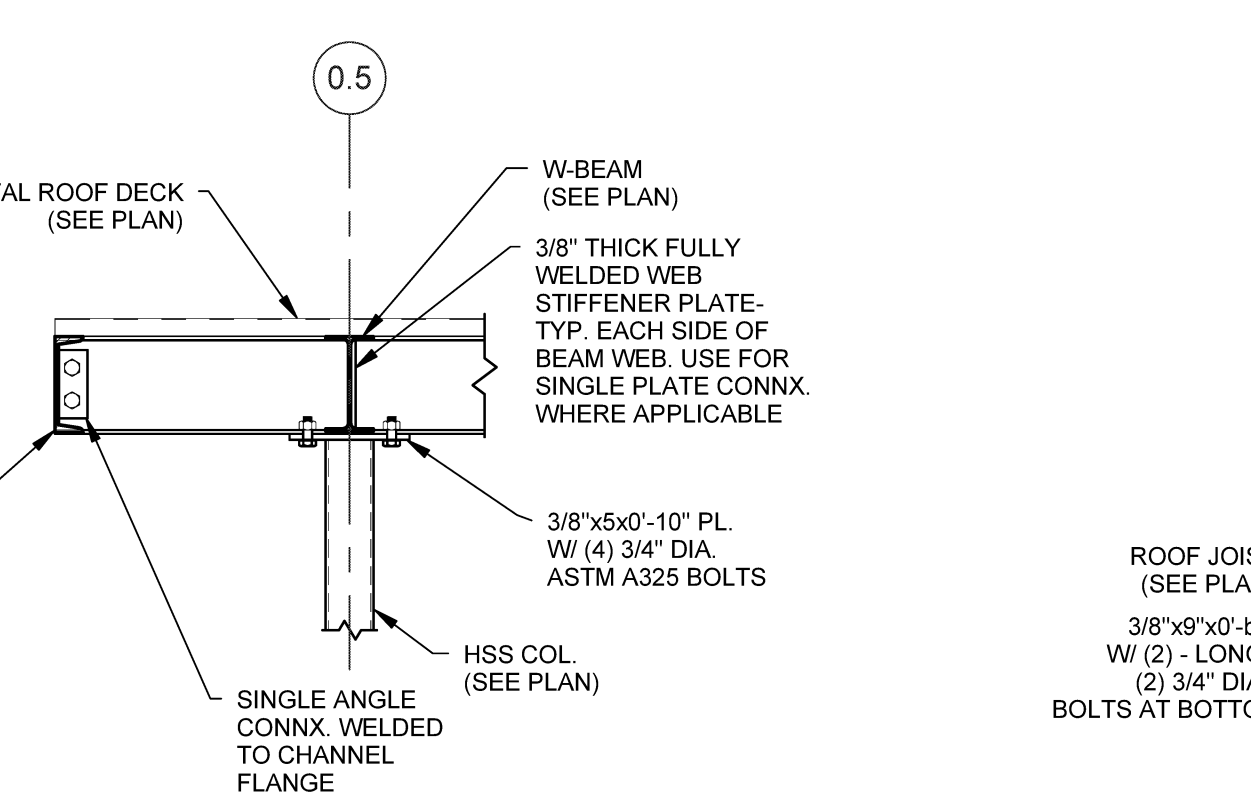
MASONRY OPENING	SIZE	BEARING
LESS THAN 11'-0"	L6x6x3/8	8" MIN.
11'-0" TO 12'-8"	BENT PLATE 8x6x3/8	8" MIN.

NOTES:
1. LINTEL FOR EXTERIOR MASONRY SHALL BE HOT-DIPPED GALVANIZED.
2. LINTEL IS SIZED FOR 4" WIDTH OF MASONRY.

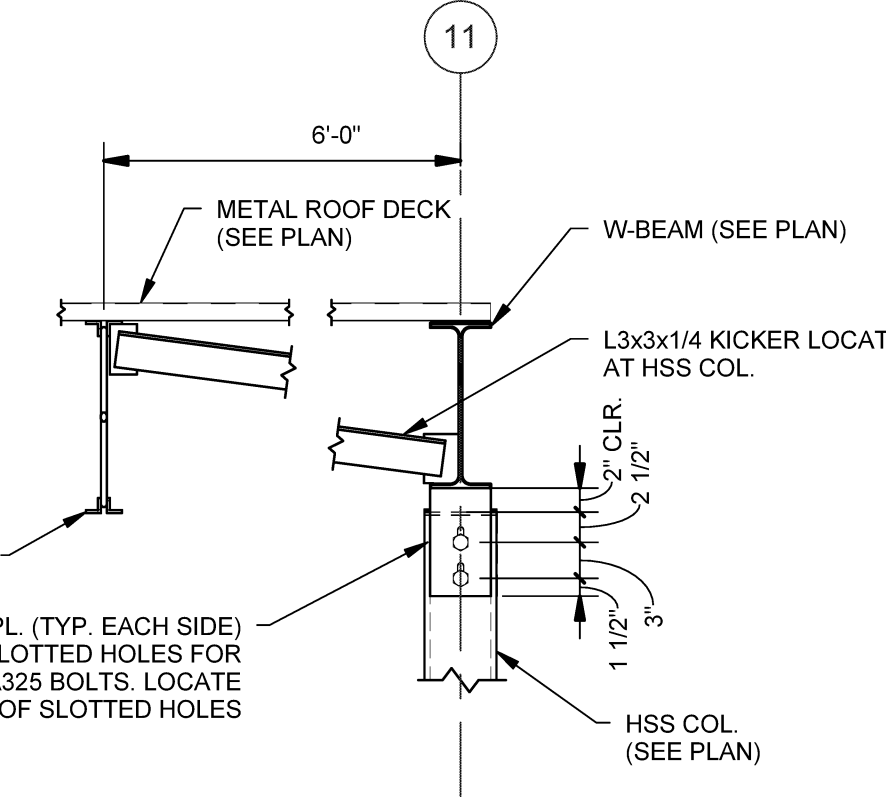
D6 TYP. STEEL LINTEL SCHEDULE
SCALE: 3/4" = 1'-0"



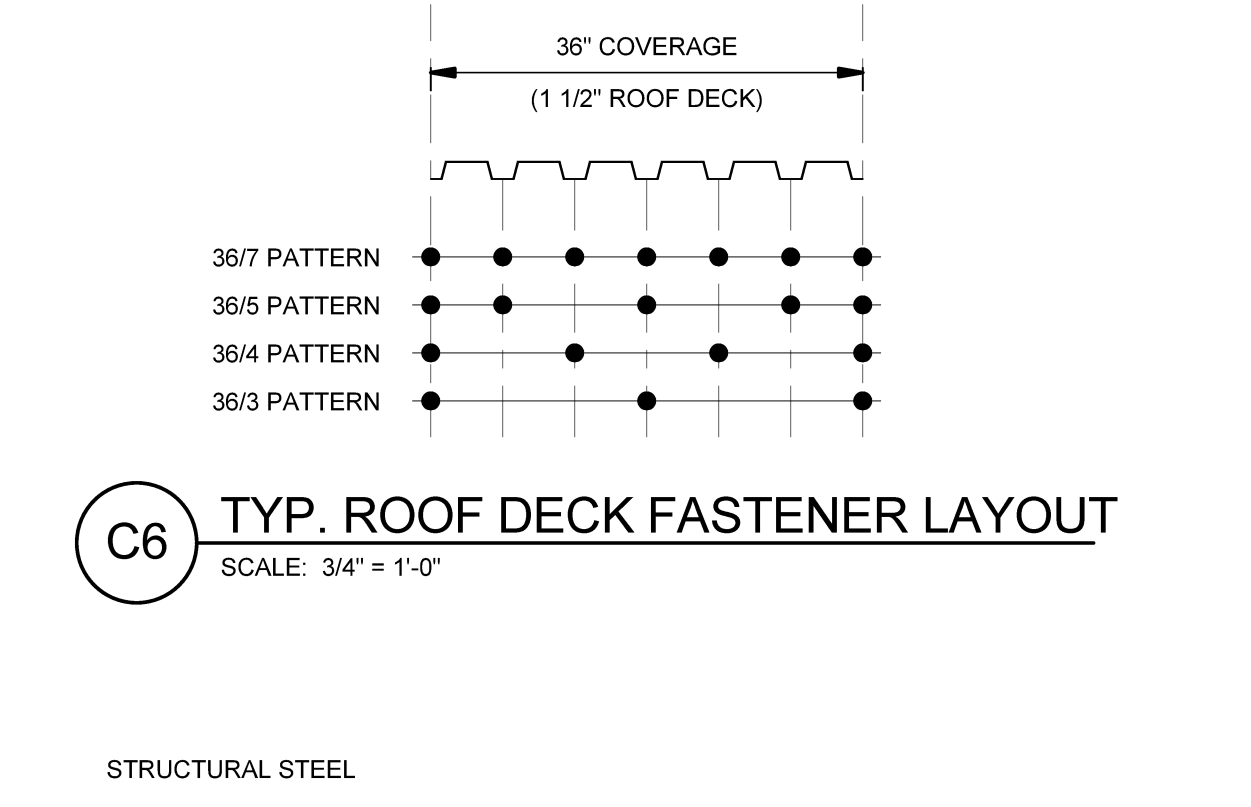
C2 SECTION
SCALE: 3/4" = 1'-0"



C3 SECTION
SCALE: 3/4" = 1'-0"

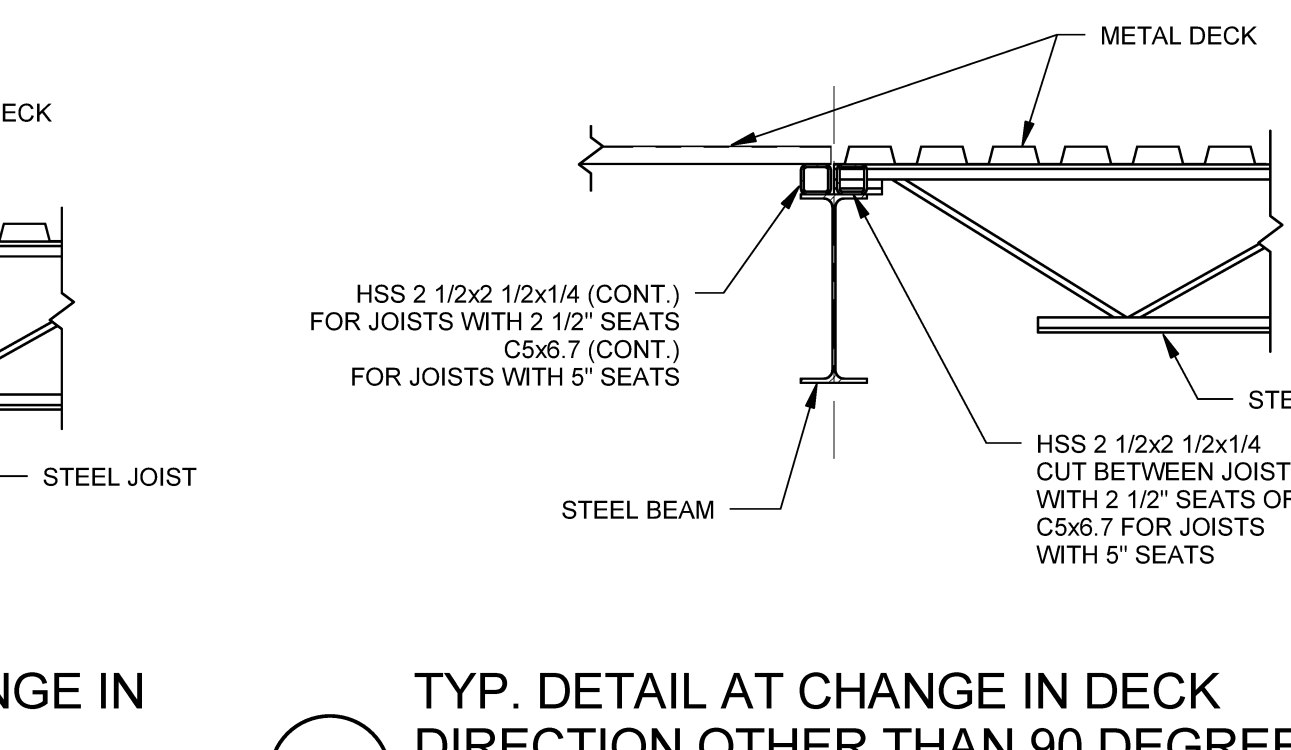


C4 SECTION
SCALE: 3/4" = 1'-0"

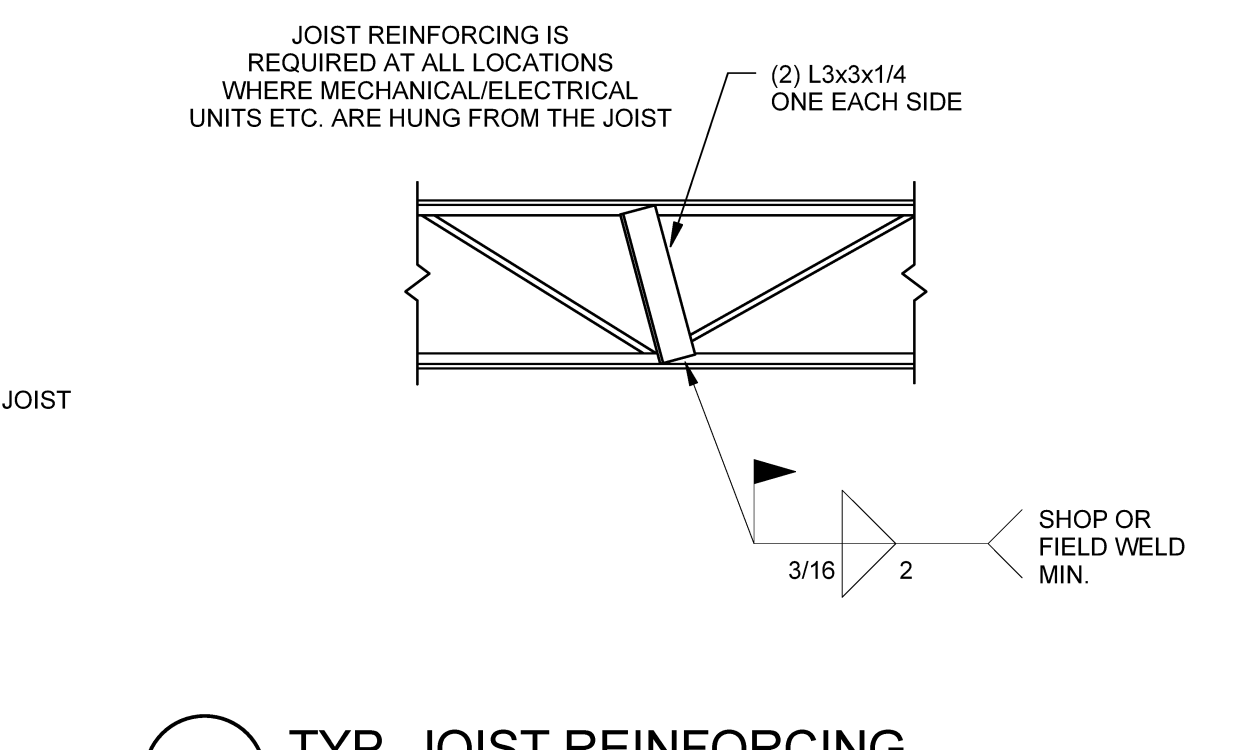


C6 TYP. ROOF DECK FASTENER LAYOUT
SCALE: 3/4" = 1'-0"

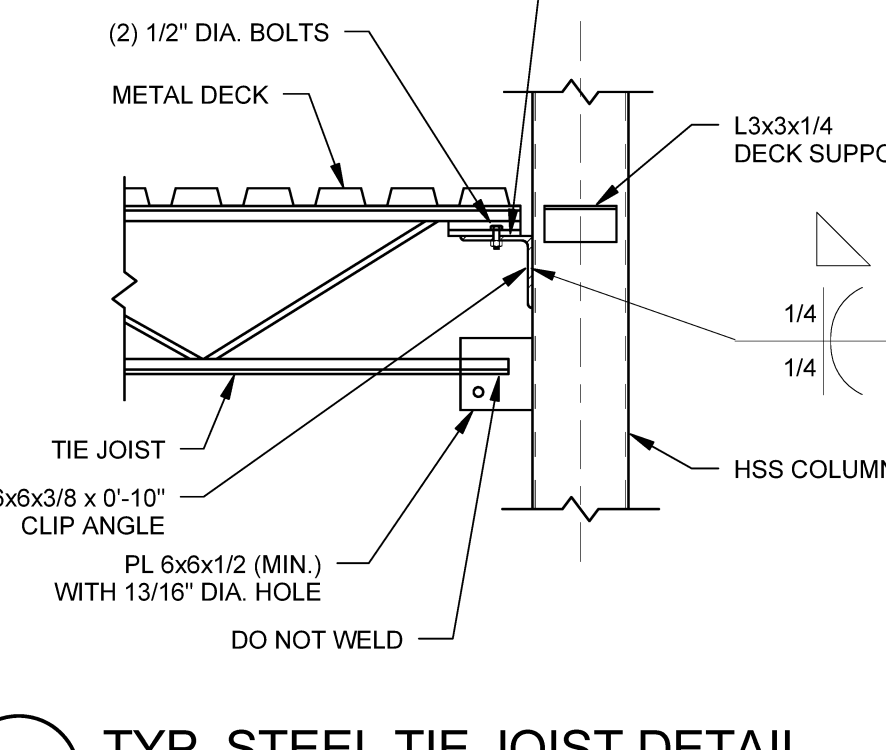
- STRUCTURAL STEEL**
- STRUCTURAL STEEL SHALL BE ASTM A992, GR. 50 (Fy=50 KSI), EXCEPT STRUCTURAL TUBING TO BE Fy=46 KSI, UNLESS NOTED OTHERWISE.
 - FABRICATION SHALL NOT BEGIN UNTIL SHOP DRAWINGS HAVE BEEN APPROVED.
 - CONNECTIONS SHALL BE DESIGNED BY THE STEEL FABRICATOR.
 - BASE PLATES AND BEARING PLATES SHALL BE GROUDED WITH NON-SHRINK GROUT AND AT PROPER GRADE, BEFORE PLACING STEEL.
 - CONTRACTOR SHALL APPLY TWO BRUSH COATS OF ASPHALT TO COLUMNS AND BASE PLATES EXPOSED TO FILL AFTER COLUMN IS IN PLACE.
 - STEEL BEAMS ENCASED IN CONCRETE SHALL RECEIVE CLIPS OR BE WRAPPED WITH WIRE MESH, UNLESS NOTED OTHERWISE.
 - STEEL BEAMS TO RECEIVE WOOD NAULERS SHALL HAVE HOLE DRILLED FOR 1/2" DIA. BOLTS AT 2'-6" O.C. STAGGERED.
 - VERIFY WITH MECHANICAL DRAWINGS FOR LOCATION OF DUCTS, PIPING, ETC. THROUGH FLOOR AND ROOF CONSTRUCTION BEFORE SPACING JOISTS.
 - ALL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED IN STRUCTURAL DRAWINGS TO BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER HIRED BY THE STEEL FABRICATOR. THE COMPLETE CONNECTION DESIGN PACKAGE WITH ALL SUPPORTING CALCULATIONS SHALL BE STAMPED BY THE PROFESSIONAL ENGINEER AND FORWARDED TO HARRIMAN PRIOR TO OR WITH THE STRUCTURAL STEEL SHOP DRAWINGS FOR REVIEW AND APPROVAL. SHOP DRAWINGS WILL NOT BE REVIEWED WITHOUT ALL SUPPORTING CONNECTION CALCULATIONS PROVIDED. SIMPLE SHEAR CONNECTIONS SHALL BE PROVIDED FOR THE FULL UNIFORM LOAD CAPACITY OF THE BEAM FOR NON-COMPOSITE CONSTRUCTION. A TABULATION OF THE SIMPLE SHEAR CONNECTIONS SHALL BE PROVIDED WITH THE CONNECTION SUBMITTAL BUT INDIVIDUAL CONNECTION CALCULATIONS SHALL NOT BE SUBMITTED.
- STEEL DECK**
- ROOF DECK SHALL BE 1 1/2" - 22 GAUGE & 1 1/2" - 18 GAUGE, TYPE B (PAINTED) FASTENING PATTERN:
DECK ATTACHMENT - 5/8" DIA. PUDDLE WELDS OR APPROVED MECHANICAL FASTENERS.
PATTERN - 36/7 SIDELAPS - #10 TEK SCREWS AT 12" O.C. MAX.
- MISCELLANEOUS**
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK.
 - CONTRACTOR SHALL REPORT ANY VARIATIONS FOUND AT THE SITE BEFORE PROCEEDING WITH THAT PART OF THE WORK.
- DESIGN INFORMATION**
- DESIGN CODE = 2009 IBC AND ASCE 7-05
- LIVE LOADS:**
CLASSROOMS = 40 PSF
ASSEMBLY OFFICES = 65 PSF
MEETING ROOMS / LOUNGES = 100 PSF
TOILET ROOMS = 60 PSF
LOBBIES, STAIRS AND EXITS = 100 PSF
MECHANICAL ROOMS = 200 PSF
LIGHT STORAGE = 125 PSF
- SNOW LOAD:**
F_s = 50 PSF
C_e = 1.0
C_d = 1.0
I_s = 1.1
P_f = 47 PSF
- WIND LOAD:**
BASIC WIND SPEED (V) = 100 MPH (3 SEC GUST)
I_w = 1.15 (CATEGORY III)
EXPOSURE CATEGORY = B
INT. PRESSURE COEF. (G_{CP}) = +/- 0.18
- SEISMIC LOAD:**
SEISMIC OCCUPANCY CATEGORY III
SITE CLASS = B
S_s = 0.315; S₁ = 0.077
S_{0.5} = 0.325; S_{0.1} = 0.123
I_e = 1.25
SEISMIC DESIGN CATEGORY = B
F. F. S. SYSTEM = ORDINARY CONCENTRIC BRACED FRAMES
ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE
R = 3.0
BASE SHEAR (V) = 0.141W



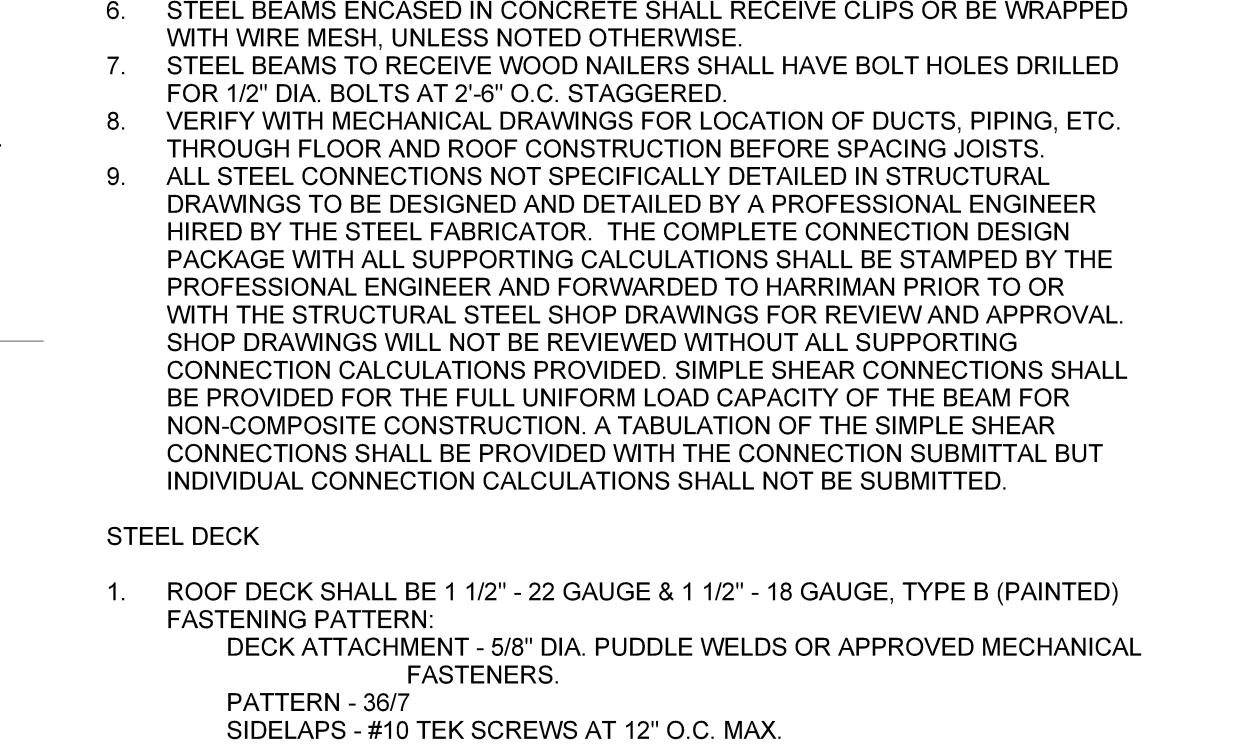
B2 TYP. DETAIL AT 90 DEGREE CHANGE IN DECK DIRECTION
SCALE: 3/4" = 1'-0"



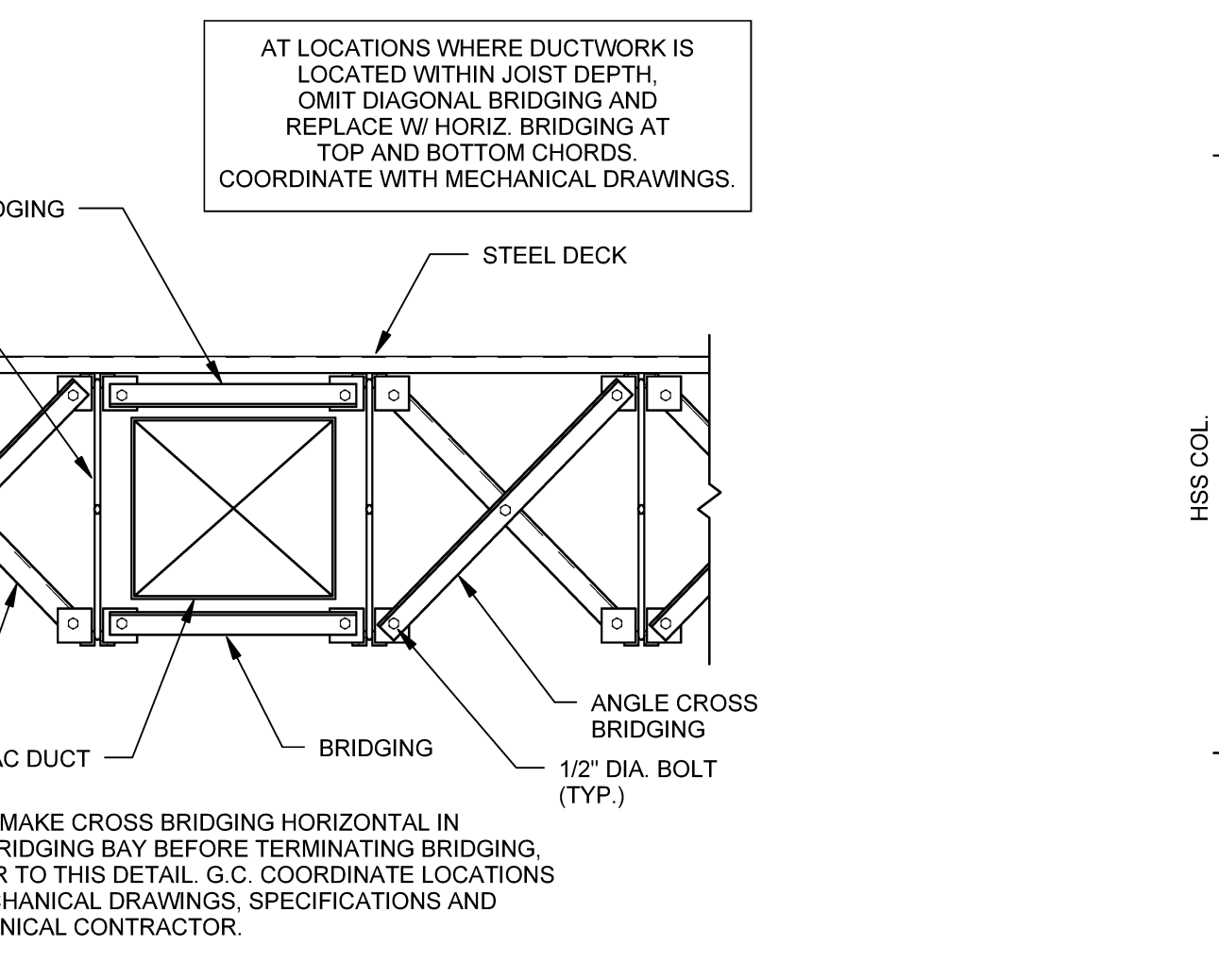
B3 TYP. DETAIL AT CHANGE IN DECK DIRECTION OTHER THAN 90 DEGREE
SCALE: 3/4" = 1'-0"



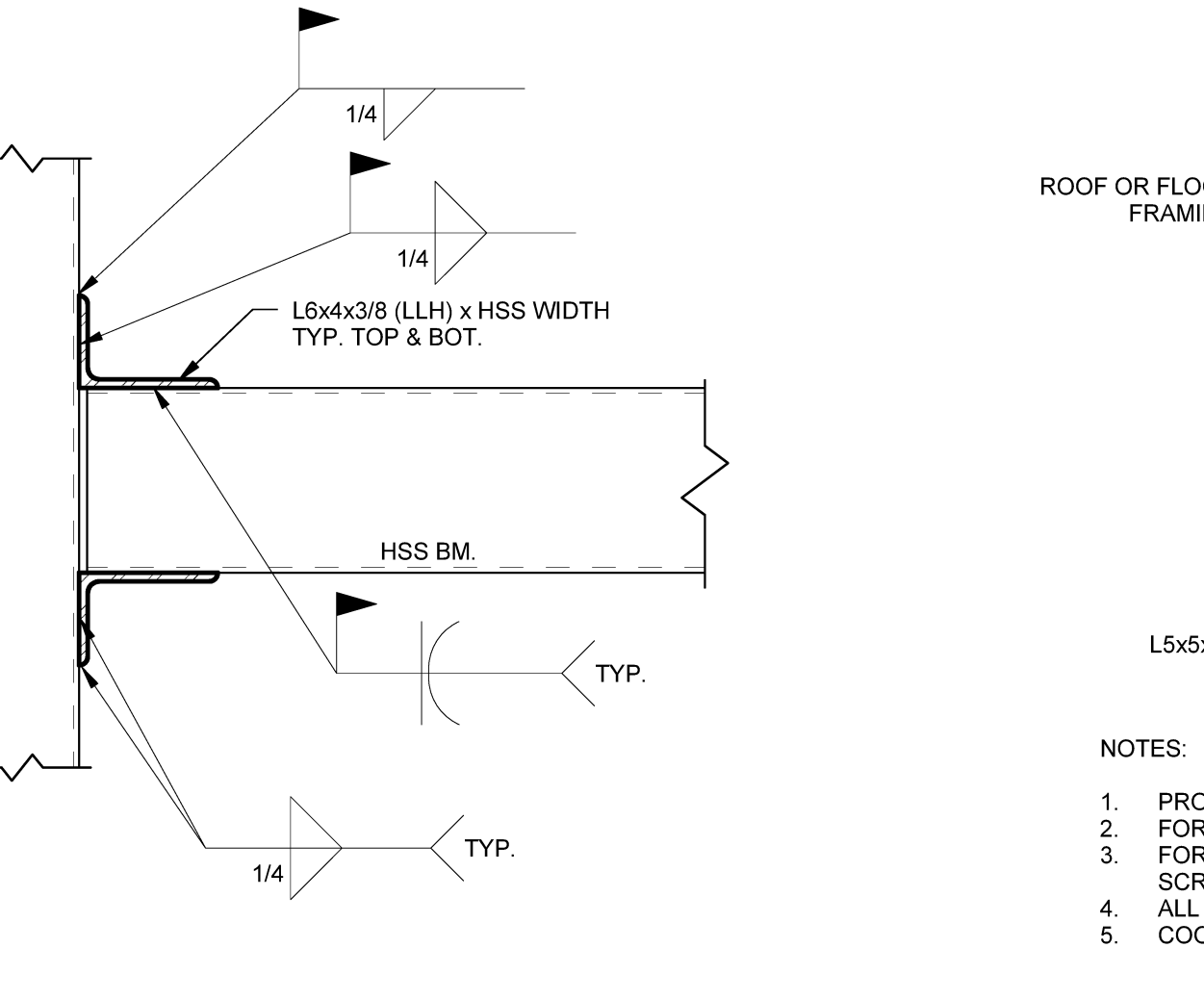
B4 TYP. JOIST REINFORCING
SCALE: 3/4" = 1'-0"



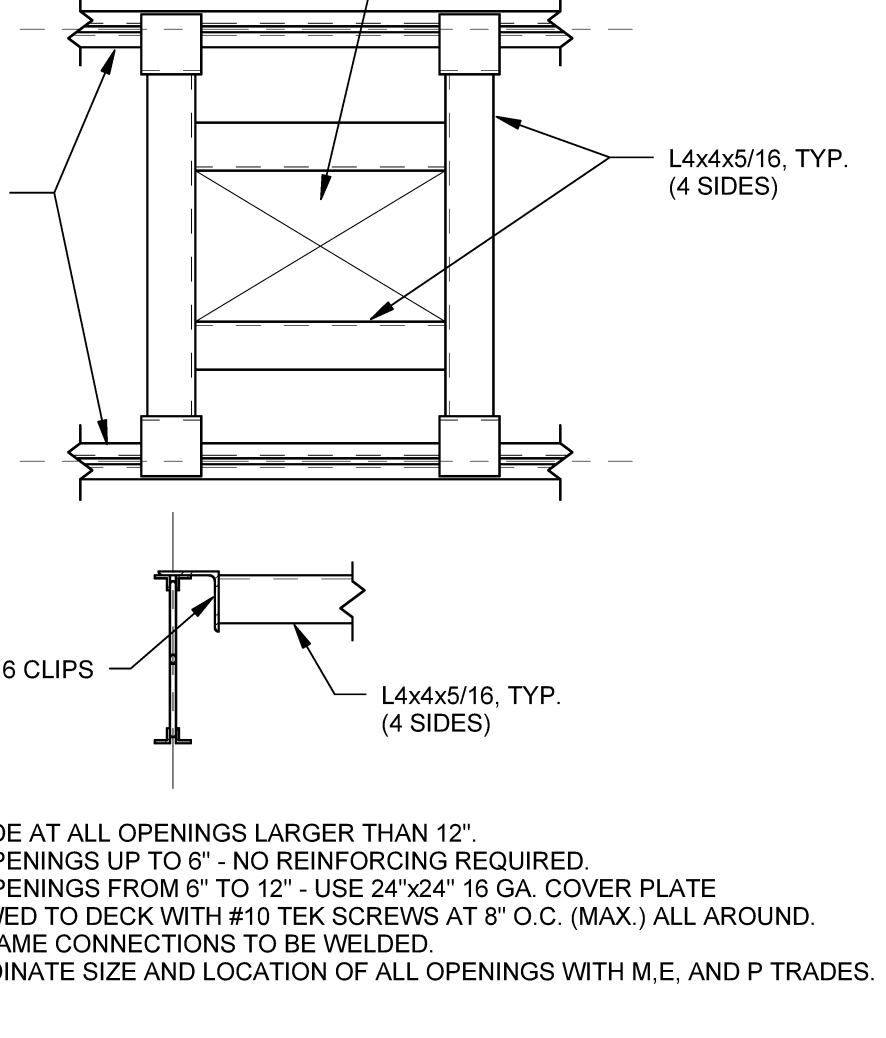
B5 TYP. STEEL TIE JOIST DETAIL
SCALE: 3/4" = 1'-0"



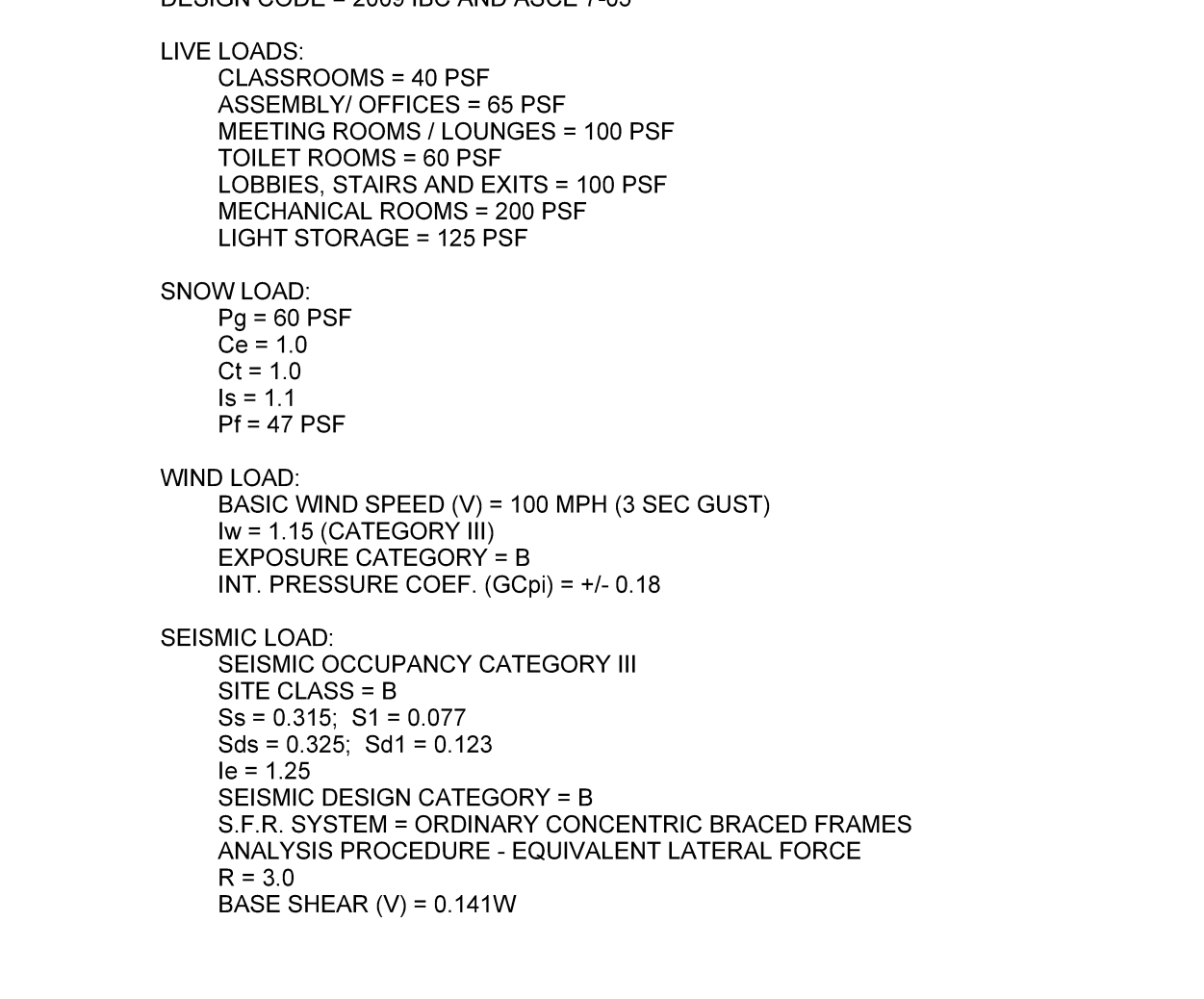
A1 TYP. FLOOR JOIST BEARING ON STEEL BEAM
SCALE: 3/4" = 1'-0"



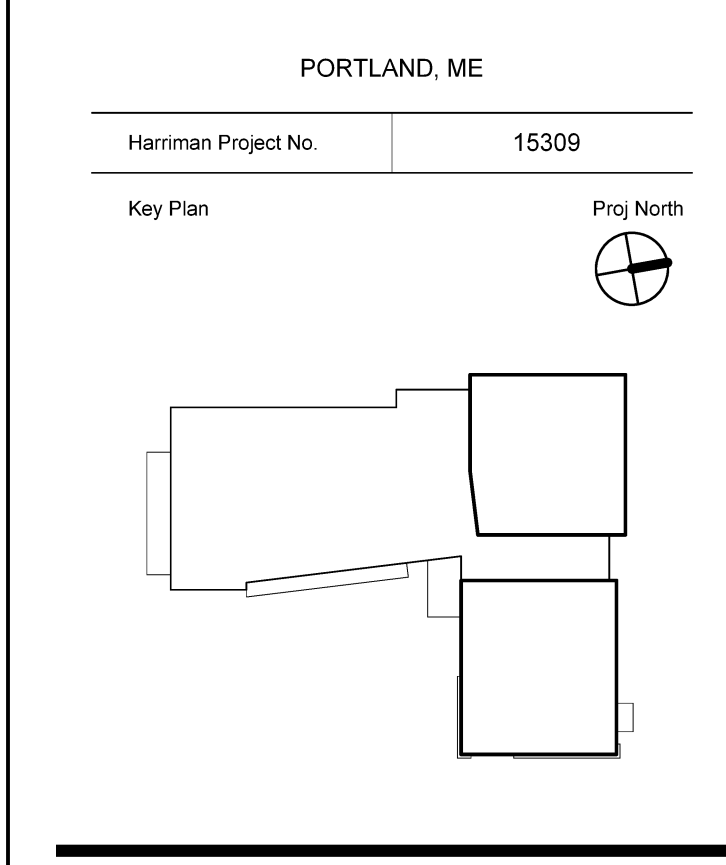
A2 TYP. JOIST BRIDGING AT HVAC DUCT
SCALE: 3/4" = 1'-0"



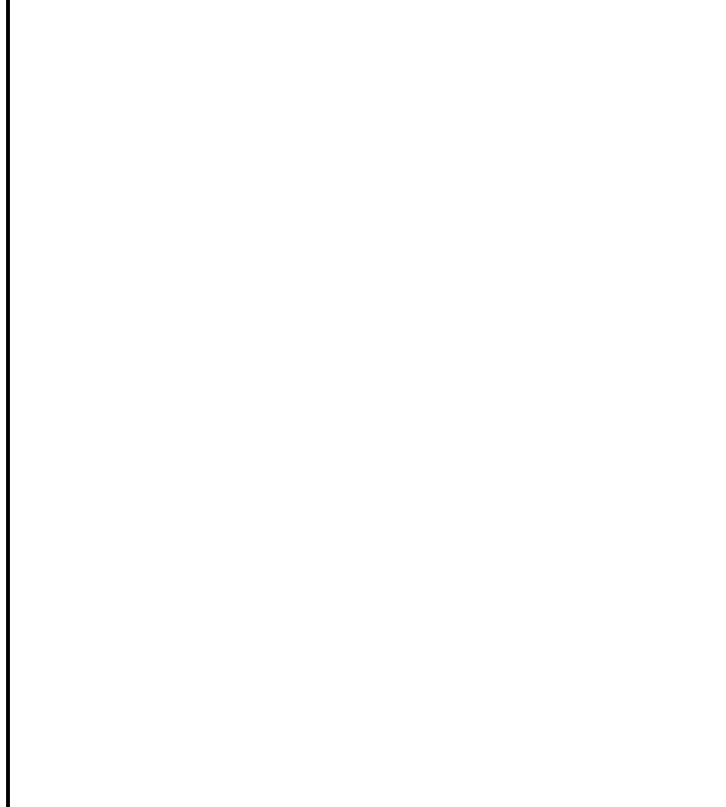
A3 TYP. HSS GIRTS TO COL. DETAIL
SCALE: 1 1/2" = 1'-0"



A5 TYP. FRAME AT ROOF OR FLOOR OPENING
SCALE: 3/4" = 1'-0"



D6 TYP. STEEL LINTEL SCHEDULE
SCALE: 3/4" = 1'-0"



C6 TYP. ROOF DECK FASTENER LAYOUT
SCALE: 3/4" = 1'-0"

Issues and Revisions

Mark	Date	Description
-	09-04-15	DESIGN DEVELOPMENT REVIEW
-	03-25-16	CONSTRUCTION DOCUMENTS
1	04-15-16	ADDENDUM #1
2	04-21-16	ADDENDUM #2
3	07-22-16	CONFORMANCE SET

STATE OF MAINE
JAMES C. FORN
No. 6559
LICENSED PROFESSIONAL ENGINEER

Drawing Scales: 0 6" 1" 2"
As indicated
0 4" 8" 1"
1 1/2" = 1'-0"

PA/PE: JCF © 2016 Harriman Associates
Drawn By: ZPP