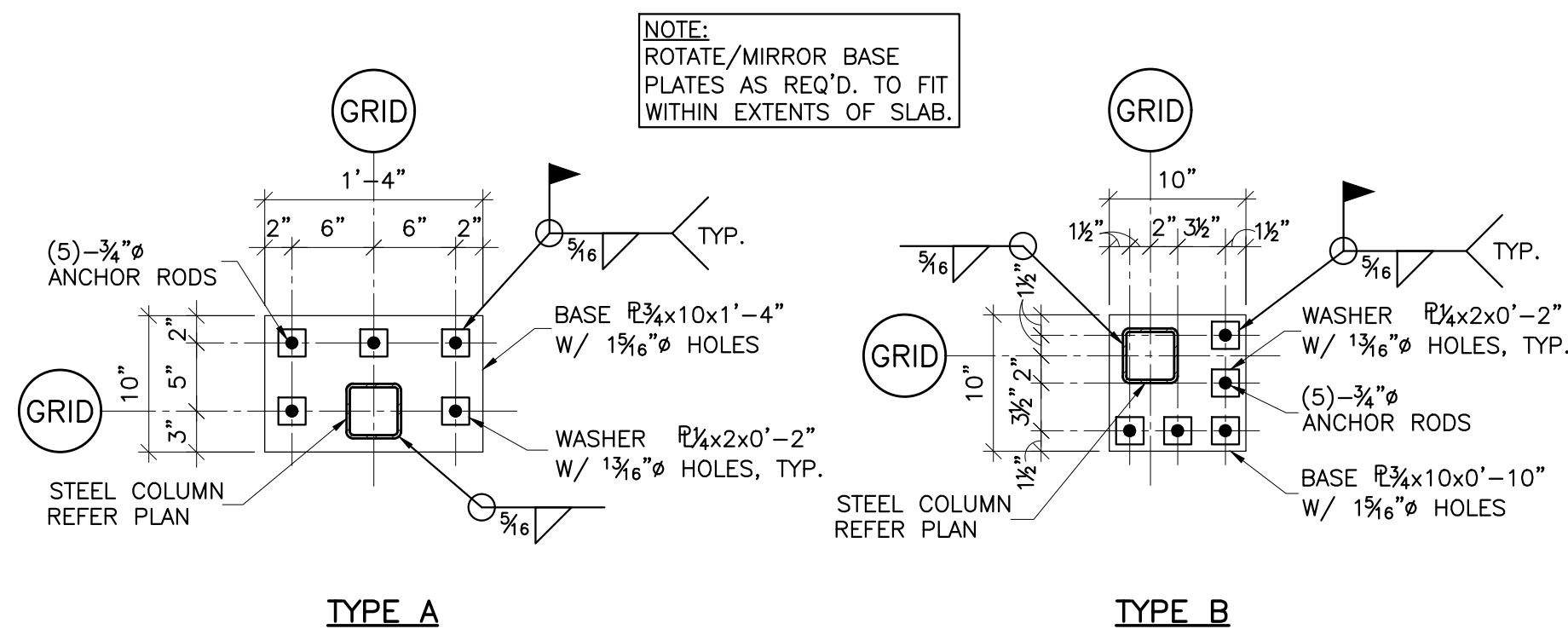


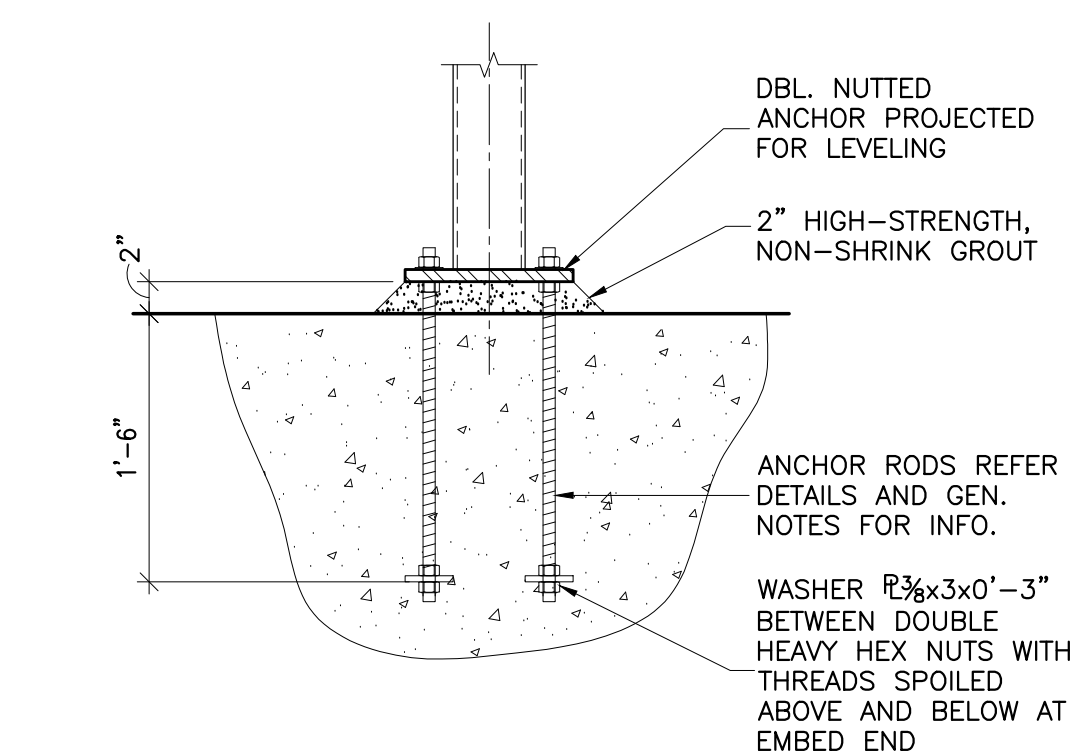
1 TYP. ISOLATION JOINT DETAILS

SCALE: NONE



TYPE A

TYPE B

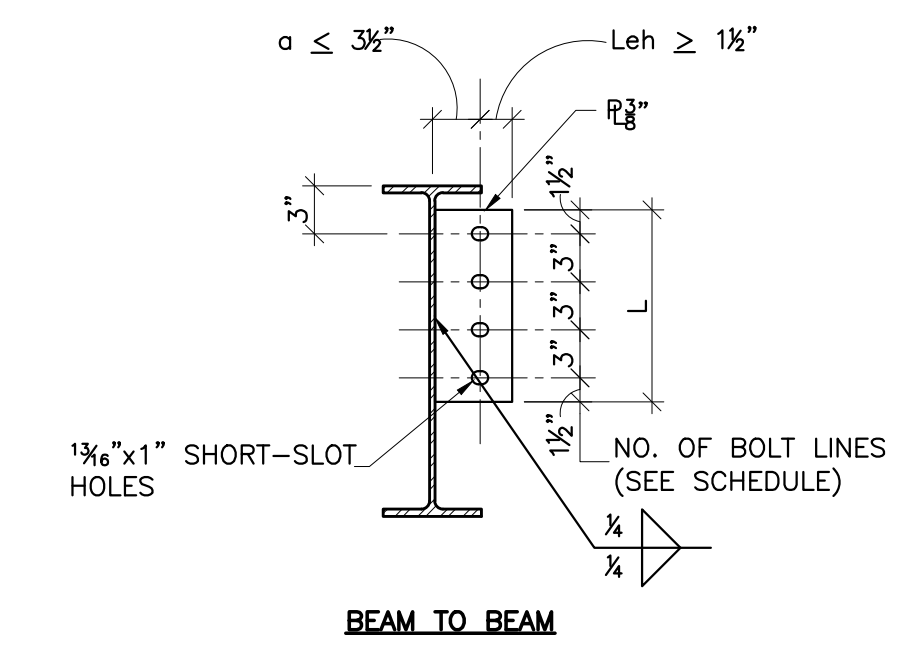


2 BASE PLATE DETAILS

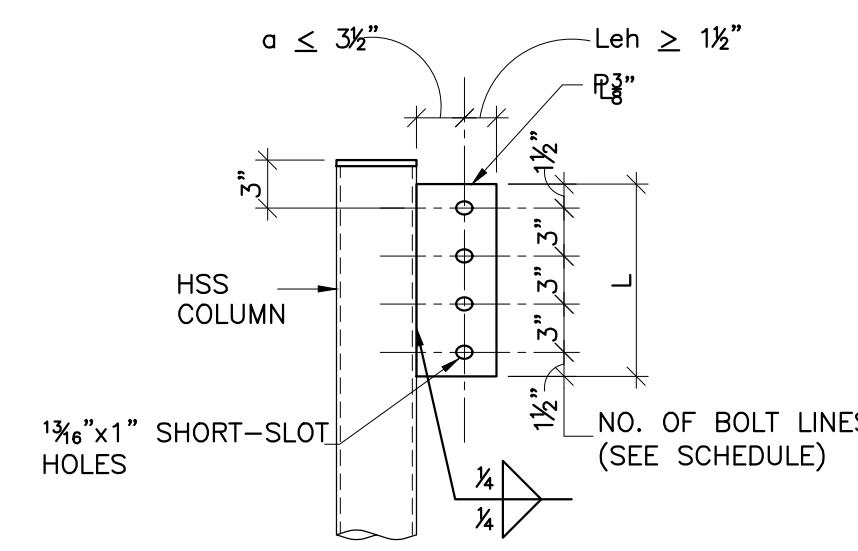
SCALE: NONE

3/8" A325-N BOLT SCHEDULE FOR SINGLE PLATE SHEAR TAB CONNECTIONS (FACTORED LOADS)	
END REACTION	NO. OF BOLTS
0 THRU 31 KIPS	2-3/8"
31 THRU 47 KIPS	3-3/8"
47 THRU 63 KIPS	4-3/8"
63 THRU 79 KIPS	5-3/8"
79 THRU 95 KIPS	6-3/8"
95 THRU 111 KIPS	7-3/8"
111 THRU 127 KIPS	8-3/8"

- NOTES:
- VALUES SHOWN ARE APPLICABLE FOR SINGLE PLATE SHEAR TAB CONNECTIONS
 - SEE PLAN FOR END REACTIONS
 - L = PLATE LENGTH ≥ T/2 OF CONNECTED BEAM.
 - AT HSS OR PIPE COLUMNS, A THROUGH-PLATE WITH EQUAL WELD ON THE BACK SIDE OF THE COLUMN IS REQUIRED UNDER EITHER OF THE FOLLOWING CIRCUMSTANCES:
 - FOR SQUARE OR RECTANGULAR HSS:
 - WHEN $\frac{B-2.79t}{0.93t} > 35.1$
 - FOR ROUND HSS OR PIPE:
 - WHEN $\frac{D}{t} > \frac{3.190}{F_y}$
- WHERE:
- B = NOMINAL COLUMN WIDTH ACROSS THE COLUMN FACE WITH THE SINGLE PLATE CONNECTION, IN.
 - D = OUTSIDE DIAMETER OF ROUND HSS OR PIPE, IN.
 - t = NOMINAL THICKNESS OF COLUMN, IN.
 - F_y = YIELD STRENGTH OF COLUMN, KSI



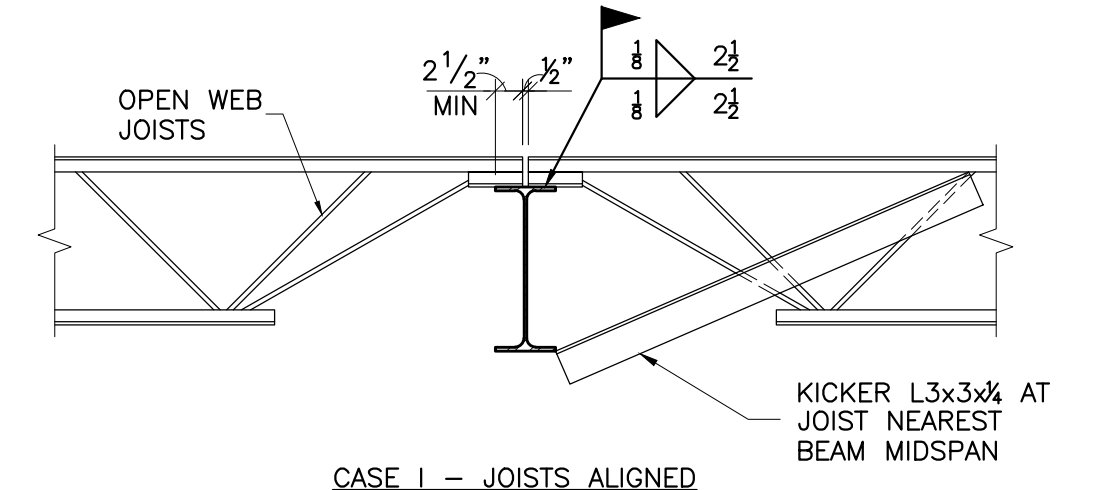
BEAM TO BEAM



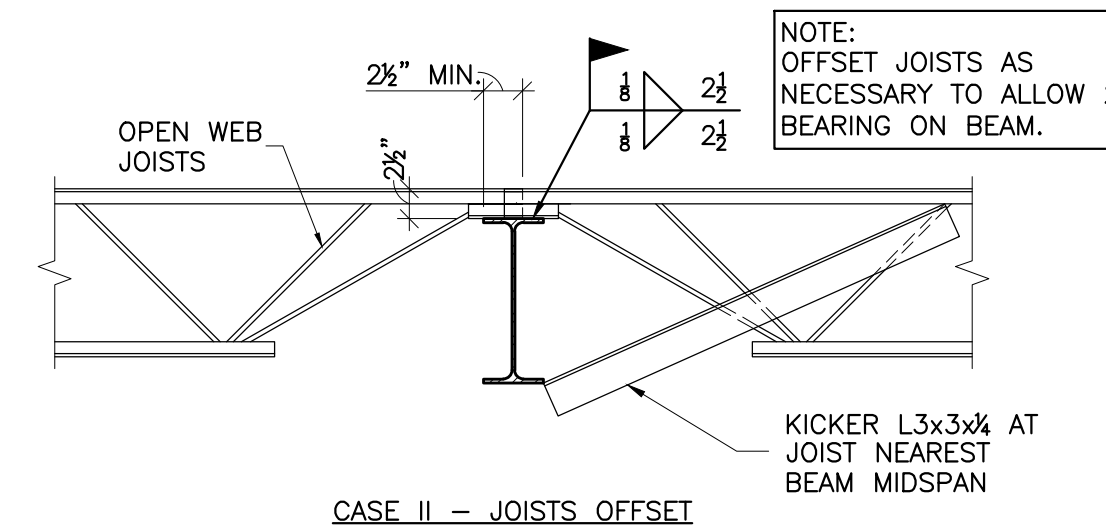
BEAM TO HSS COLUMN

3 SINGLE PLATE SHEAR TAB CONNECTIONS (LRFD)

SCALE: NONE



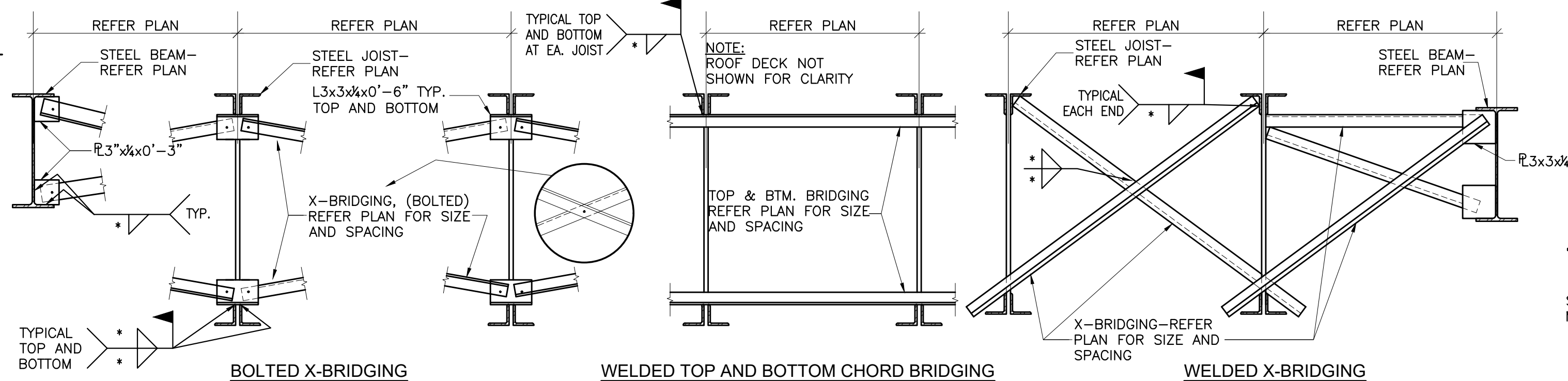
CASE I - JOISTS ALIGNED



CASE II - JOISTS OFFSET

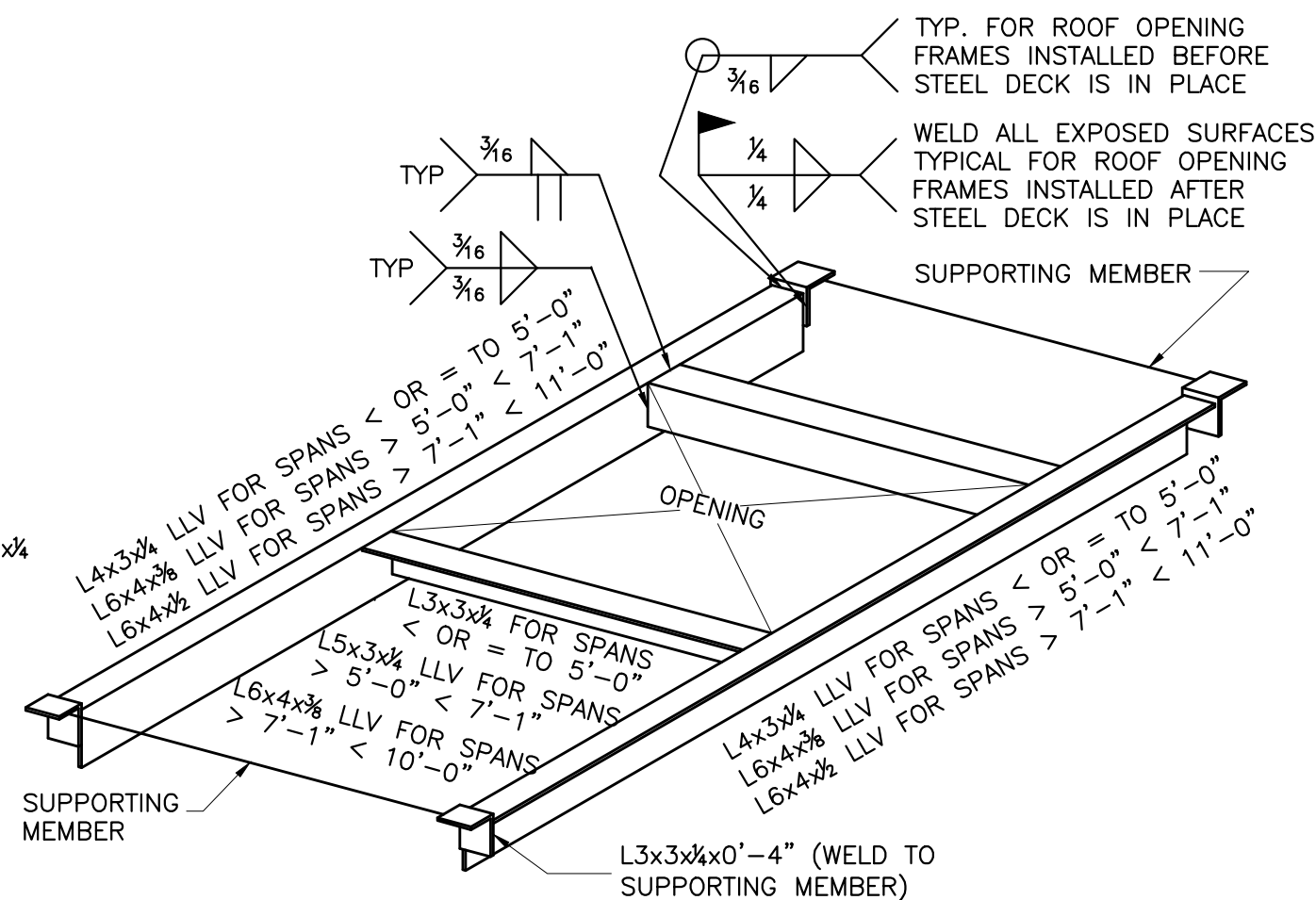
4 KICKER ANGLE AT BOTTOM FLANGE

SCALE: NONE



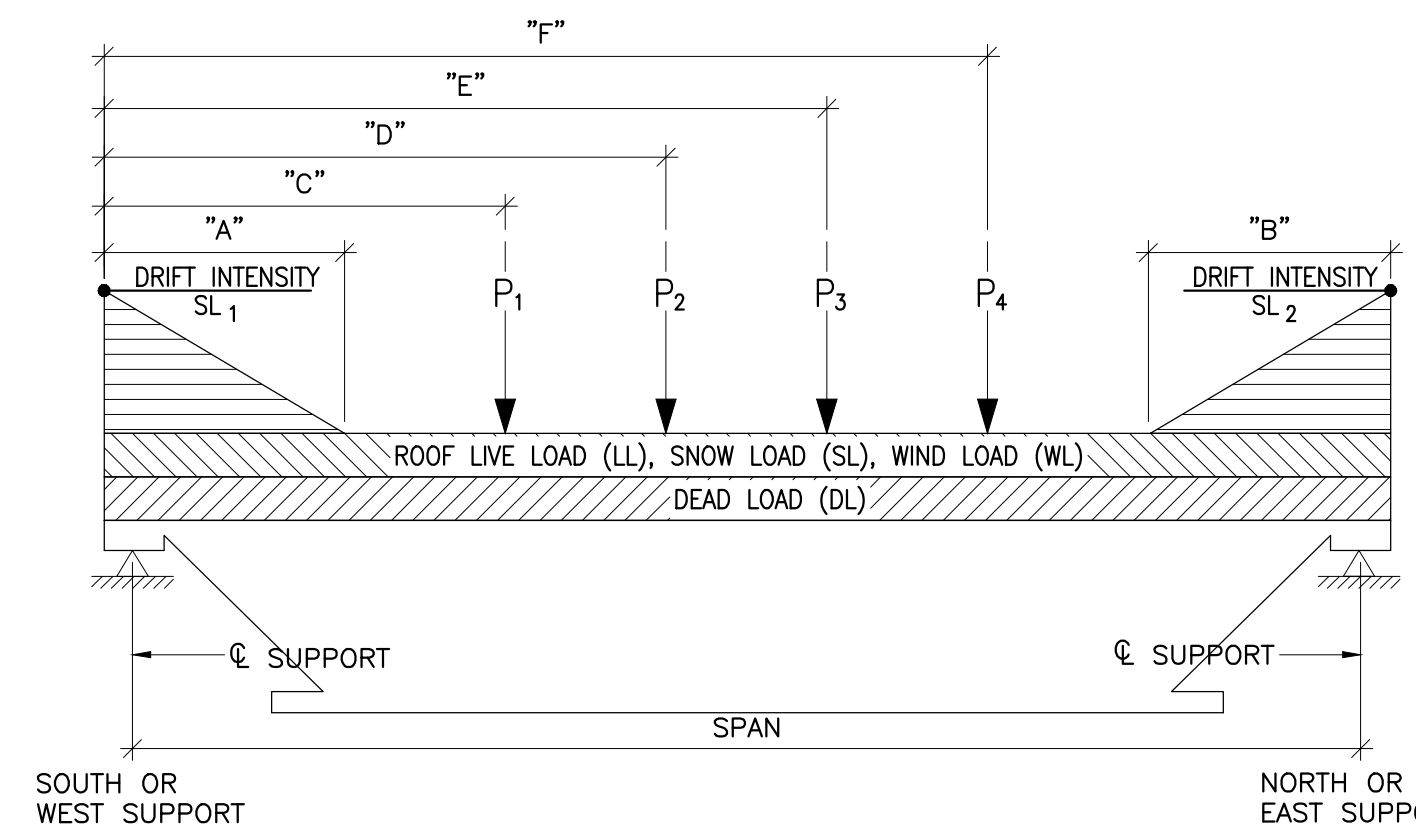
5 TYP. BRIDGING DETAILS AT JOISTS

SCALE: NONE



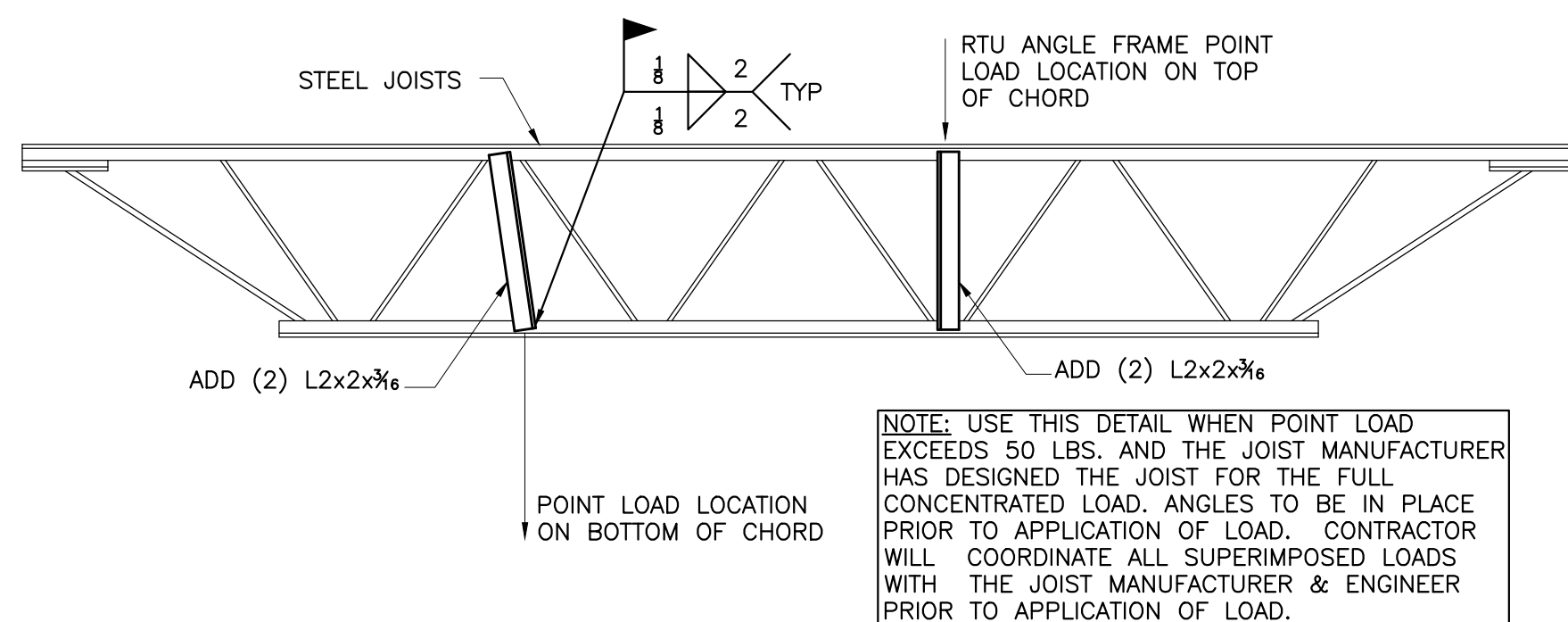
6 TYP. ROOF OPENING FRAME AND MECHANICAL UNIT SUPPORT

SCALE: NONE



7 SPECIAL JOIST ELEVATION

SCALE: NONE



8 BRACING DETAIL FOR STEEL JOISTS W/ POINT LOADS

SCALE: NONE

JOIST DESIGNATION	SPAN, FT.	UNIFORMLY DISTRIBUTED LOADS, PLF						TRAPEZOIDAL LOADS, PLF				CONCENTRATED LIVE LOADS, LBS						REMARKS					
		DL	LL	SL (N.D.)	SL (W.D.)	WL (IN)	WL (OUT)	SL1	"A"	SL2	"B"	P1	"C"	P2	"D"	P3	"E"		P4	"F"			
18K4-SP1	28'-0"	115.4	115.4	69.2	57.7	57.7	188.1			225.0	10'-3"	75	1'-0"	75	4'-6"								DOUBLE PITCHED
18K4-SP2	28'-0"	115.4	115.4	69.2	57.7	57.7	188.1			225.0	10'-3"	150	1'-0"	150	4'-6"								DOUBLE PITCHED
10K1-SP3	14'-0"	118.0	118.0	70.8	59.0	59.0	192.3					150	7'-0"										
10K1-SP4	14'-0"	118.0	118.0	70.8	59.0	59.0	192.3					300	7'-0"										
16K4-SP5	28'-0"	119.0	119.0	71.4	59.5	59.5	194.0					75	23'-3"	75	27'-0"								
16K4-SP6	28'-0"	119.0	119.0	71.4	59.5	59.5	194.0					150	23'-3"	150	27'-0"								
16K4-SP7	28'-0"	116.6	116.6	70.0	58.3	58.3	190.1					75	2'-3"										
10K1-SP8	14'-0"	116.6	116.6	70.0	58.3	58.3	190.1					75	5'-6"	75	9'-0"	75	12'-6"						

- NOTES:
- SPANS SHOWN ARE APPROXIMATE. MANUFACTURER SHALL DETERMINE EXACT DESIGN SPANS.
 - REFER TO THE SPECIAL JOIST DIAGRAM FOR CLARIFICATION OF ALL NOMENCLATURE.
 - SL (N.D.) IS THE UNIFORM BALANCED SNOW LOAD TO BE CONSIDERED WITHOUT DRIFT LOADS.
 - SL (W.D.) IS THE UNIFORM SNOW LOAD WITH DRIFT INCLUDED.
 - JOISTS SHALL BE DESIGNED FOR ALL LOAD COMBINATIONS SPECIFIED IN THE GOVERNING BUILDING CODE. REFER GENERAL NOTES FOR THE APPLICABLE CODE.

