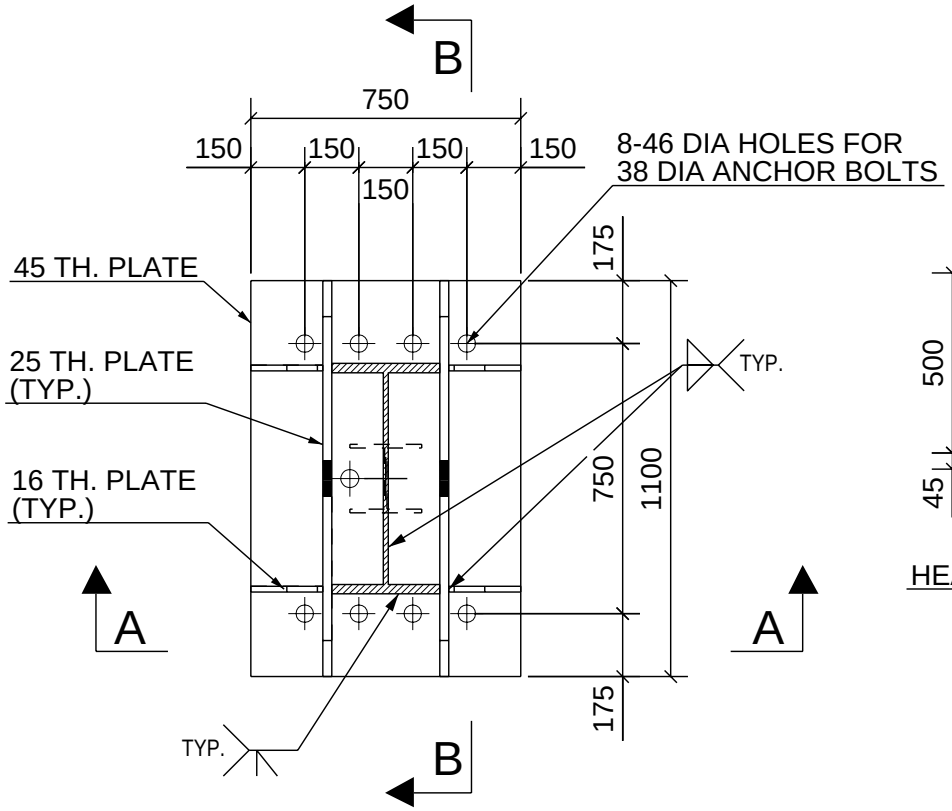
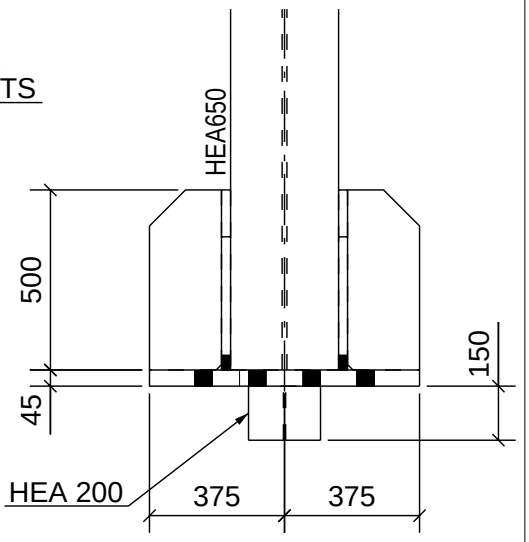
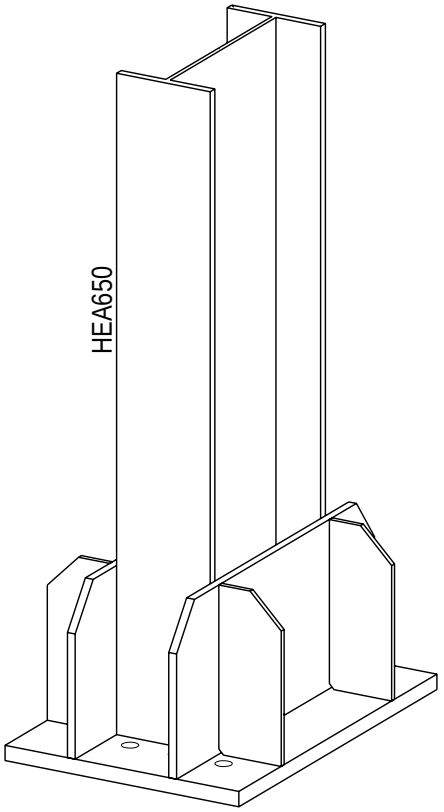
Detail J18





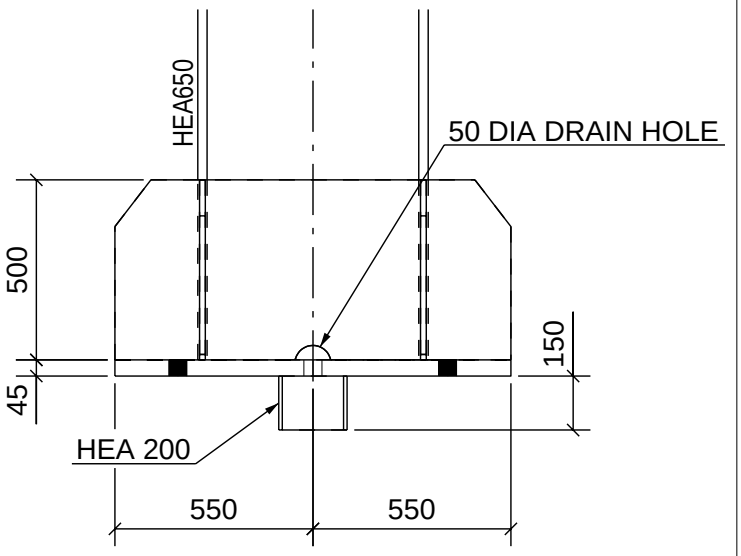
Section A - A

1:20



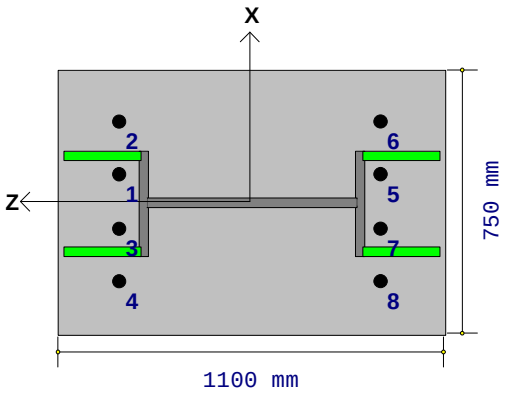
Isometric View

1:20



Section B - B

1:20



Bolt	X (mm)	Z (mm)
1	75.	375.
2	225.	375.
3	-75.	375.
4	-225.	375.
5	75.	-375.
6	225.	-375.
7	-75.	-375.
8	-225.	-375.

Geometry and Materials

Length **1100. mm**
Width **750. mm**
Thickness **45. mm**
Base Plate Fy **345. MPa**
Base Plate E **199947 MPa**
Bearing Fp **11.583 MPa**
Bearing Fc' **25.5 MPa**
Pedestal Length **1300 mm**
Pedestal Width **1000 mm**
Pedestal Heigh **2000 mm**
Analyze Base Plate as Rigid
Fp is User Defined
Base Plate: **AISC LRFD 13th**
AB Pullout: **ACI 2005**
AB Head: **Square**
Seismic Reduction %: **25.**

Column Shape **HE650A**
Column eX **0. mm**
Column eZ **0. mm**
Column to Edge Min (X) **100. mm**
Column to Edge Min (Z) **100. mm**
WF Flanges welded
WF Web welded
Stiffened Base Plate Connection
Vx Shear Lug present
Vz Shear Lug NOT present

NW Concrete
Concrete NOT Cracked
ABs NOT Welded to Base Plate

Anchor Bolt Diameter **38.098 mm**
Anchor Bolt Material **A307**
Anchor Bolt Fu **413.684 MPa**
Anchor Bolt Fy **248.21 MPa**
Anchor Bolt E **199947 MPa**
AB Projected Length **150. mm**
AB to AB Min Spacing **100 mm**
AB to Stiffner Min Spacing **50 mm**
AB to Column Min Spacing **38.1 mm**
AB to Edge Min Spacing **50 mm**
AB Row Min Spacing **100 mm**
Priority is AB to Edge Spacing
Exclude Threads for AB Design
AB Fv, Ft based on AISC Criteria
Total AB Length: **406.4 mm**
NO Supp. Reinforcement
Tension Pedestal Bar Fy: **N.A.**
Shear Pedestal Bar Fy: **N.A.**

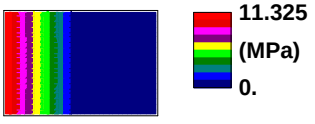
Loads

	P (KN)	Vx (KN)	Vz (KN)	Mx (KN-m)	Mz (KN-m)	Reverse
DL	**2189.63**		**236.604**	**-860.571**		**No**
LL	**-82.897**		**106.872**	**-405.363**		**No**

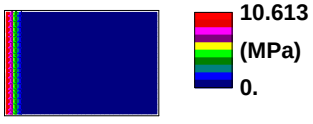
Base Plate Stress and Bearing Result

Combination	Load Sets	Base Plate Stress (MPa) Allowable	ASIF	U.C.	Bearing Pressure (MPa) Allowable	ABIF	U.C.
CASE 1 (1)	1DL	465.75	1.	.863	11.583	1.	.978
CASE 2 (2)	1LL	465.75	1.	.33	11.583	1.	.916

Bearing Contours

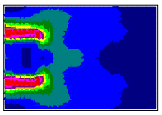


1DL
Allowable **: 11.583 MPa**
U.C. **: .978**

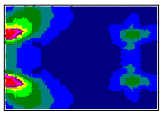


1LL
Allowable **: 11.583 MPa**
U.C. **: .916**

Base Plate Stress Contour



1DL
Allowable **: 465.75 MPa**
U.C. **: .863**



1LL
Allowable **: 465.75 MPa**
U.C. **: .33**

Anchor Bolt Results

Combination	Load Sets	Bolt	Tens.(KN)	Vx (KN)	Vz (KN)	Fnt (MPa)	ft (MPa)	Fnv (MPa)	fv (MPa)	Unity
CASE 1 (1)	1DL	1	0.	0.	-29.575	310.263	0.	206.842	25.943	.167 (S)
		2	0.	0.	-29.575	310.263	0.	206.842	25.943	.167 (S)
		3	0.	0.	-29.575	310.263	0.	206.842	25.943	.167 (S)
		4	0.	0.	-29.575	310.263	0.	206.842	25.943	.167 (S)
		5	13.727	0.	-29.575	310.263	12.041	206.842	25.943	.167 (S)
		6	13.727	0.	-29.575	310.263	12.041	206.842	25.943	.167 (S)
		7	13.727	0.	-29.575	310.263	12.041	206.842	25.943	.167 (S)
		8	13.727	0.	-29.575	310.263	12.041	206.842	25.943	.167 (S)
CASE 2 (2)	1LL	1	9.629	0.	-13.359	310.263	8.447	206.842	11.718	.076 (S)
		2	9.632	0.	-13.359	310.263	8.449	206.842	11.718	.076 (S)
		3	9.629	0.	-13.359	310.263	8.447	206.842	11.718	.076 (S)
		4	9.632	0.	-13.359	310.263	8.449	206.842	11.718	.076 (S)
		5	124.364	0.	-13.359	310.263	109.091	206.842	11.718	.469 (T)
		6	124.362	0.	-13.359	310.263	109.09	206.842	11.718	.469 (T)
		7	124.364	0.	-13.359	310.263	109.091	206.842	11.718	.469 (T)
		8	124.362	0.	-13.359	310.263	109.09	206.842	11.718	.469 (T)