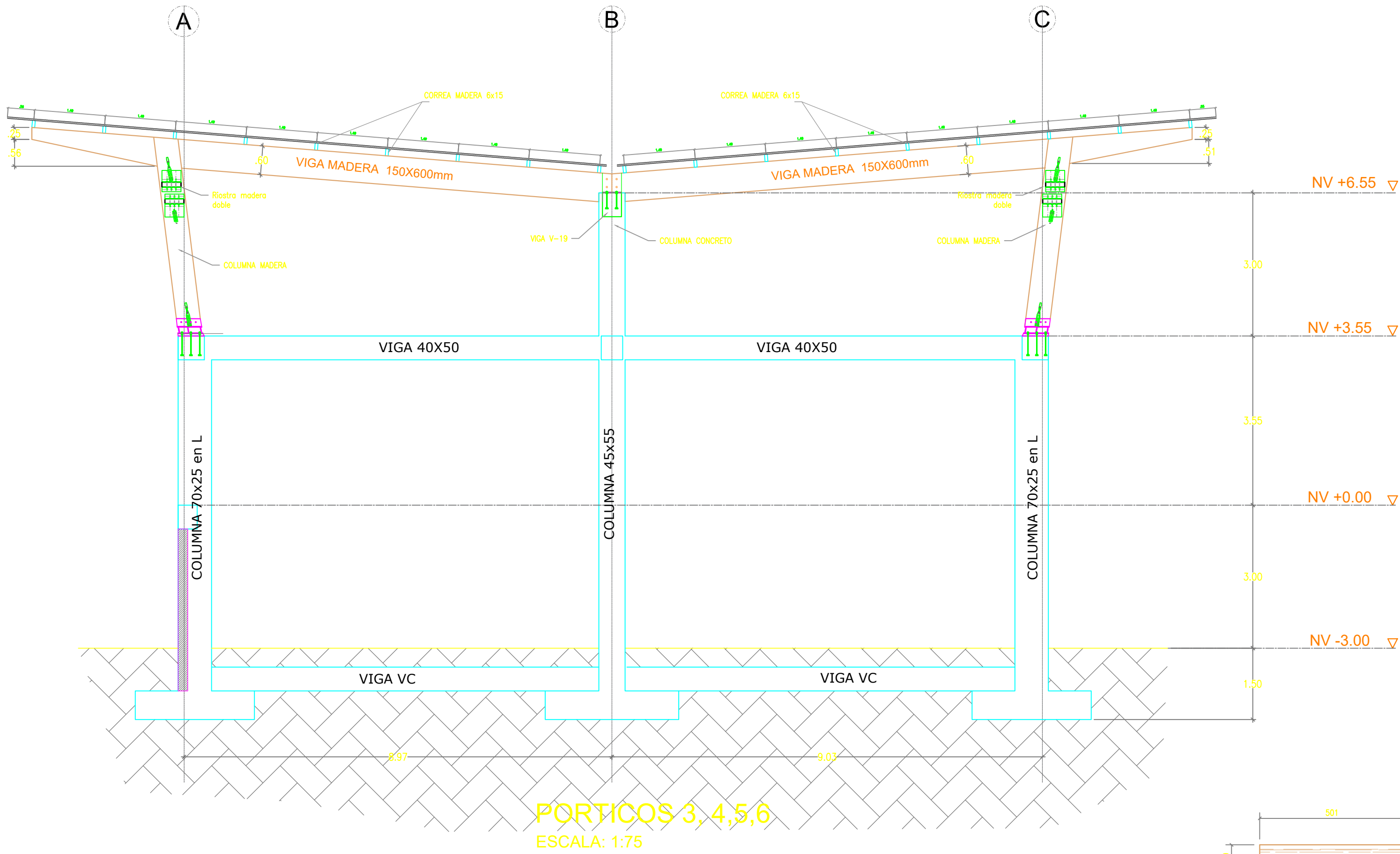


DISTANCIA MINIMA ENTRE PERNOS

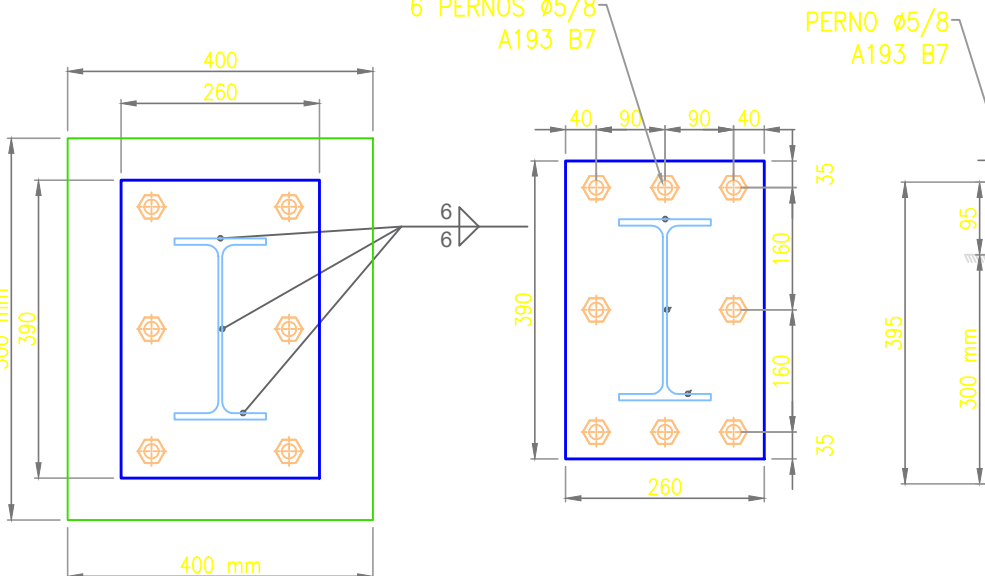
Perno					Perno				
Compresión					Tracción				
Ø	cm	4d	4d	2d	2d	Ø	cm	5d	4d
3/8"	0.95	3.80	3.80	1.90	1.90	3/8"	0.95	4.75	3.80
1/2"	1.27	5.08	5.08	2.54	2.54	1/2"	1.27	6.36	5.08
5/8"	1.59	6.36	6.36	3.18	3.18	5/8"	1.59	7.95	6.36
3/4"	1.90	7.60	7.60	3.80	3.80	3/4"	1.90	9.50	7.60



VIGA MADERA  
ESC 1:20

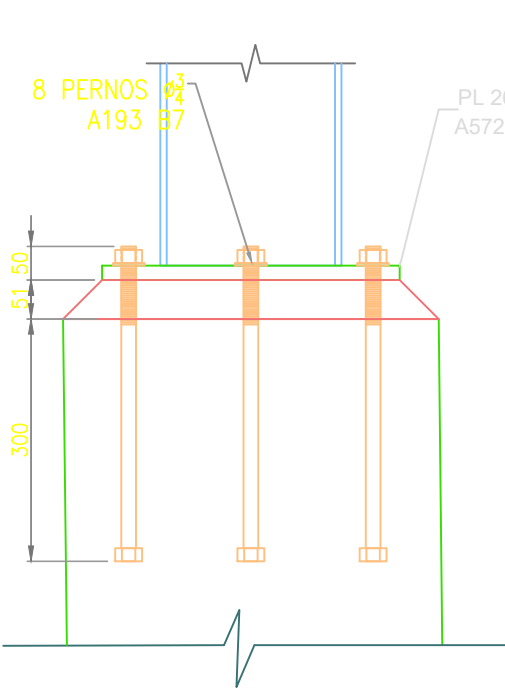
DETALLE COLUMNA MADERA  
ESC 1:20

Vista superior



DETALLE PLACA BASE IPE 240  
ESC 1:10

Vista frontal

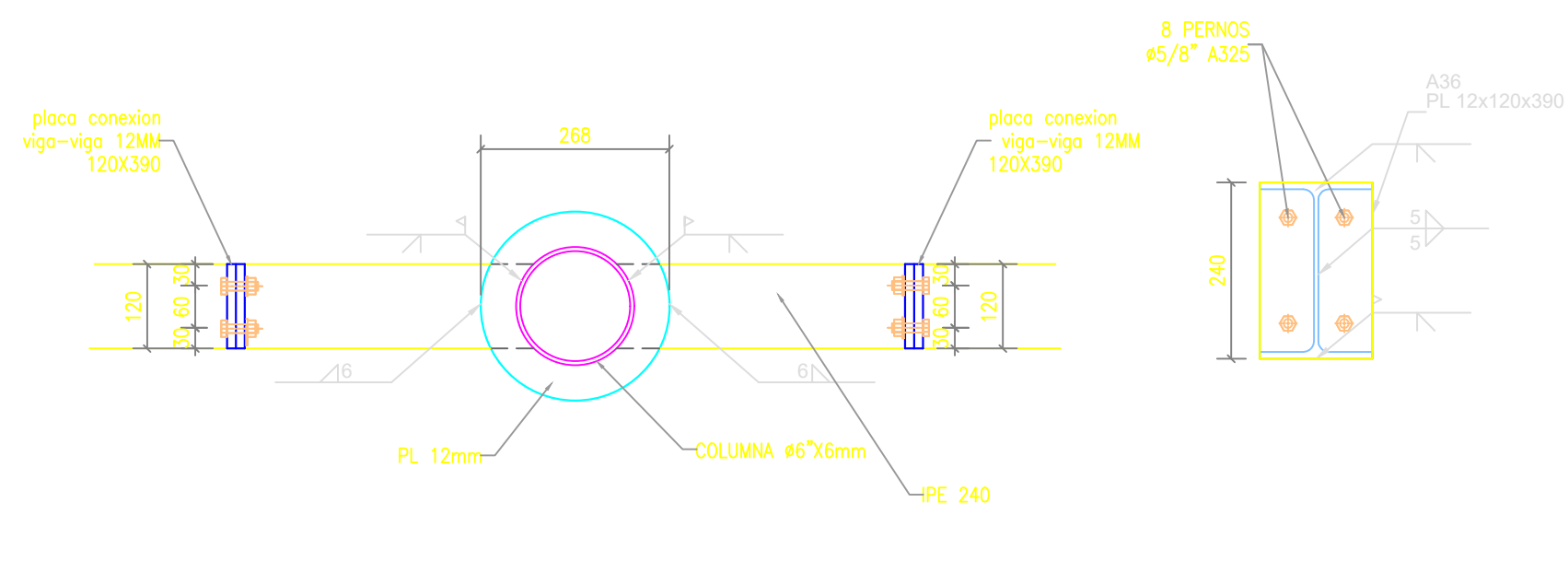


PEDESTAL PARA COLUMNA IPE 240  
ESC: 1:20

PLACA BASE COLUMNA 6"x6mm  
Esc 1:5

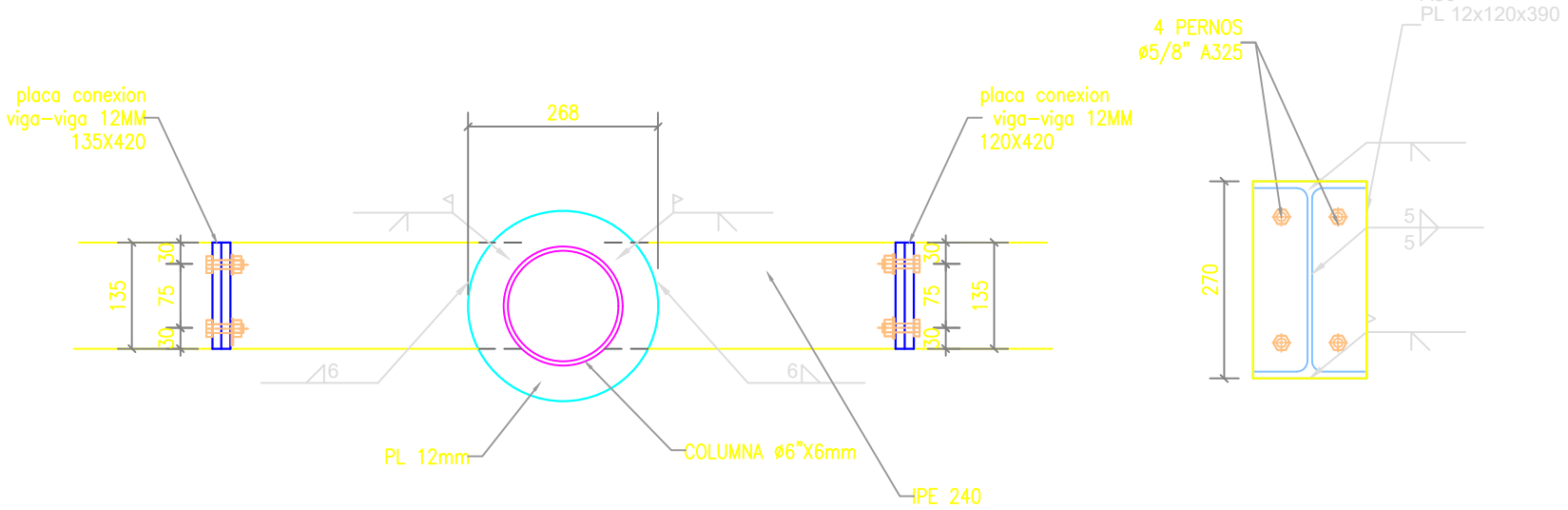
PEDESTAL PARA COLUMNA Ø6"x6mm  
ESC: 1:20

CONEXION VIGA-VIGA



CONEXION IPE 240 A COLUMNA Ø6"  
Esc 1:5

CONEXION VIGA-VIGA



CONEXION IPE 270 A COLUMNA Ø6"  
Esc 1:5

ESPECIFICACIONES MADERA

Madera Laminada en pino Patula o pino Abeto  
Resistencia a la Flexion: 91 kgf/cm<sup>2</sup>  
Resistencia a la comp. || a la fibra 82 kgf/cm<sup>2</sup>  
Resistencia a la comp. ⊥ a la fibra 25 kgf/cm<sup>2</sup>  
Resistencia a la Tracc. || a la fibra 57 kgf/cm<sup>2</sup>  
Resistencia a la Tracc. ⊥ a la fibra 25 kgf/cm<sup>2</sup>  
Modulo Elasticidad Emin = 70.000kgf/cm<sup>2</sup>  
Modulo Elasticidad Eprom = 90.000kgf/cm<sup>2</sup>

MINIMA TENSION EN PERNOS

Ø PERNO	ASTM A325 (kN)	ASTM A490 (kN)
12.7mm (1/2")	53	67
15.9mm (5/8")	84	107
19.1mm (3/4")	125	156
22.2mm (7/8")	173	218
25.4mm (1")	227	285