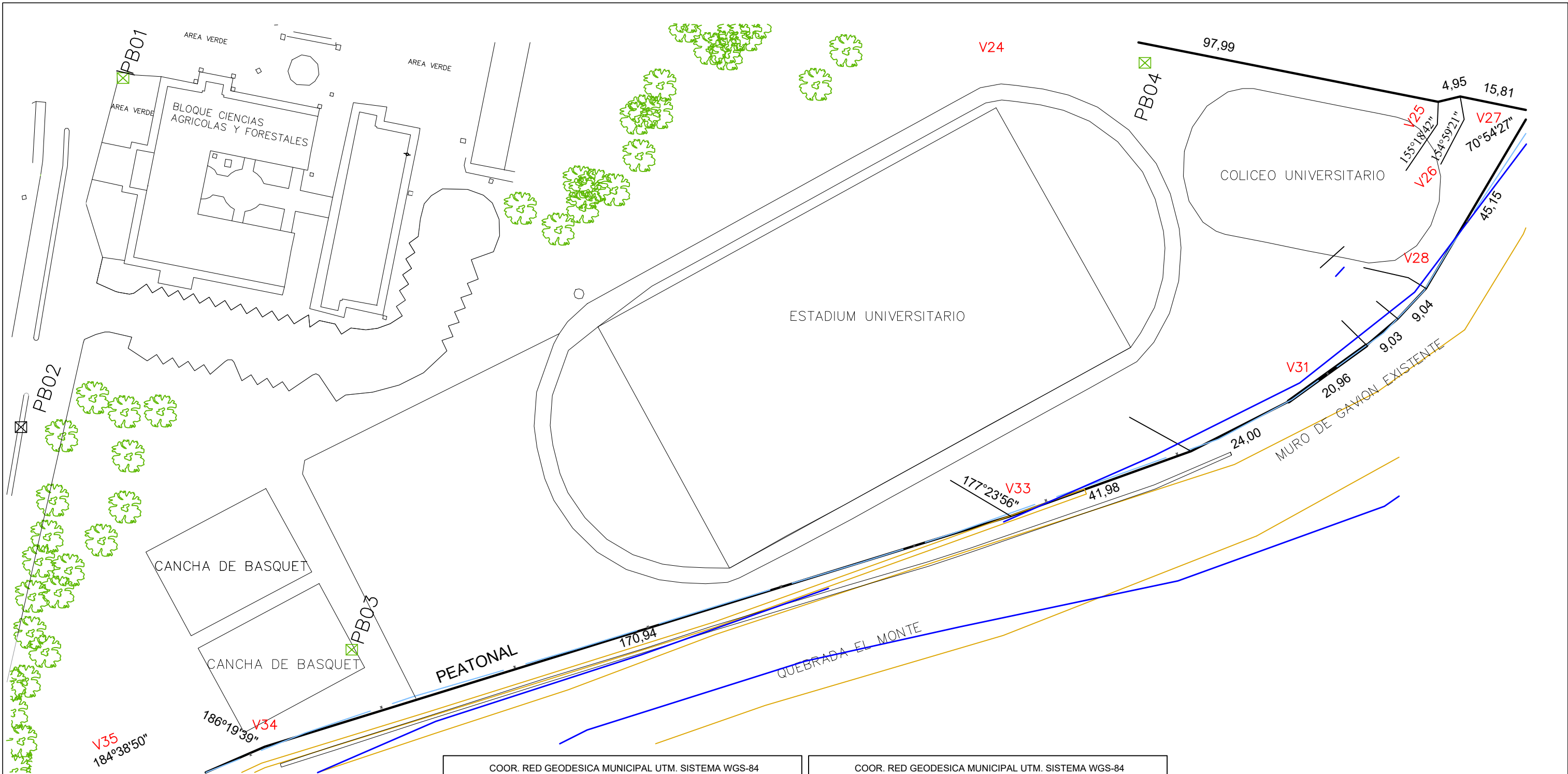




COORDENADAS POLIGONAL BASE			
PTO.	ESTE	NORTE	COTA
PB01	321701.935	7616811.160	1864.977
PB02	321679.596	7616734.759	1864.172
PB03	321752.035	7616686.046	1858.623
PB04	321925.709	7616814.484	1863.323
PB05	321653.078	7616626.431	1862.857
PB06	321636.102	7616543.633	1861.800
PB07	321688.116	7616459.730	1860.676
PB08	321721.838	7616353.395	1858.000
PB09	321696.245	7616207.398	1857.338
PB10	321595.855	7616341.043	1859.976

COOR. RED GEODESICA MUNICIPAL UTM. SISTEMA WGS-84 PTO.BASE RSMGT-007 X=321651.0597 Y=7621520.0279 Z=1939.695 F.C. = 0.99968839 (Coor. de Ref. Est. TAR-10 y TAR-025) TAR-10 X=320884.329 Y=7616523.717 Z=1857.1669 TAR-025 X=320849.046 Y=7616499.312 Z=1856.3998 FC. Promedio = 0.99969909					
PUNTO	ESTE	NORTE	PUNTO	ESTE	NORTE
V1	322012.105	7615834.306	V43	321751.592	7616456.703
V2	321823.745	7615965.530	V44	321763.891	7616456.542
V3	321694.634	7616055.220	V45	321775.817	7616459.151
V4	321686.859	7616061.192	V46	321790.137	7616463.377
V5	321680.056	7616067.687	V47	321863.753	7616491.285
V6	321662.451	7616086.274	V48	321899.139	7616482.708
V7	321564.786	7616208.184	V49	321907.546	7616474.179
V8	321408.882	7616401.957	V50	321913.866	7616453.732
V9	321408.985	7616408.510	V51	321913.719	7616447.829
V10	321473.451	7616530.331	V52	321911.488	7616442.184
V11	321475.265	7616538.271	V53	321898.390	7616421.904
V12	321489.334	7616565.046	V54	321864.828	7616396.331
V13	321596.577	7616762.401	V55	321794.182	7616357.442
V14	321641.046	7616847.432	V56	321774.657	7616343.492
V15	321647.544	7616859.991	V57	321744.694	7616328.904
V16	321649.908	7616863.549	V58	321739.930	7616325.642
V17	321651.545	7616865.248	V59	321731.709	7616316.826
V18	321653.324	7616866.493	V60	321724.660	7616307.782
V19	321655.213	7616867.445	V61	321704.032	7616248.947
V20	321657.060	7616868.059	V62	321703.616	7616231.679
V21	321659.314	7616868.372	V63	321758.845	7616109.555

COOR. RED GEODESICA MUNICIPAL UTM. SISTEMA WGS-84 PTO.BASE RSMGT-007 X=321651.0597 Y=7621520.0279 Z=1939.695 F.C. = 0.99968839 (Coor. de Ref. Est. TAR-10 y TAR-025) TAR-10 X=320884.329 Y=7616523.717 Z=1857.1669 TAR-025 X=320849.046 Y=7616499.312 Z=1856.3998 FC. Promedio = 0.99969909					
PUNTO	ESTE	NORTE	PUNTO	ESTE	NORTE
V22	321668.991	7616866.867	V64	321782.646	7616079.413
V23	321715.351	7616861.886	V65	321808.218	7616063.332
V24	321893.799	7616825.011	V66	321820.205	7616061.384
V25	321989.923	7616805.957	V67	321831.590	7616061.340
V26	321994.738	7616807.111	V68	321840.851	7616062.673
V27	322010.230	7616803.950	V69	321887.161	7616075.889
V28	321987.230	7616765.100	V70	321913.407	7616081.876
V29	321981.074	7616758.474	V71	321940.755	7616083.650
V30	321974.193	7616752.624	V72	321947.192	7616082.728
V31	321957.191	7616740.373	V73	321955.282	7616079.882
V32	321935.806	7616729.488	V74	321960.723	7616077.174
V33	321896.303	7616715.284	V75	321965.362	7616073.419
V34	321732.985	7616664.804	V76	321968.632	7616068.314
V35	321708.213	7616654.031	V77	321994.809	7616024.441
V36	321689.917	7616644.241	V78	321998.022	7616015.534
V37	321666.520	7616620.190	V79	321992.656	7615943.268
V38	321648.116	7616554.648	V80	322013.470	7615846.690
V39	321670.059	7616501.269	V81	322016.223	7615846.918
V40	321716.245	7616465.107	V82	322015.467	7615834.574
V41	321725.542	7616461.958	V1	322012.105	7615834.306
V42	321735.955	7616459.177			

UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"				
FACULTAD DE CIENCIAS Y TECNOLOGIA				
CARRERA:		CONTENIDO:		
INGENIERIA CIVIL		LEVANTAMIENTO TOPOGRAFICO		
UNIVERSITARIA:		GALLARDO DIAZ PATRICIA ESTEFANIA		LAMINA:
				1
MATERIA:		FECHA:		
PROYECTO DE GRADO II		Octubre 2020		

ESTADIO UNIVERSITARIO JUAN MISAEL SARACHO

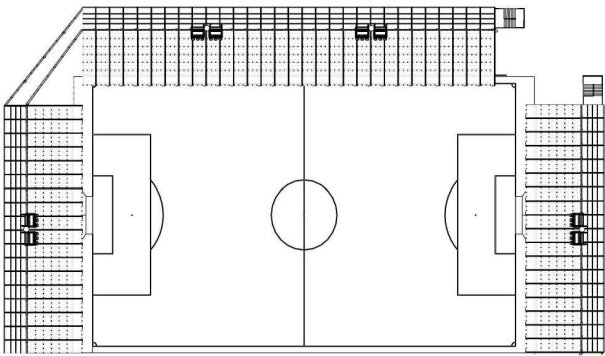
DESCRIPCION GENERAL DE LA INFRAESTRUCTURA



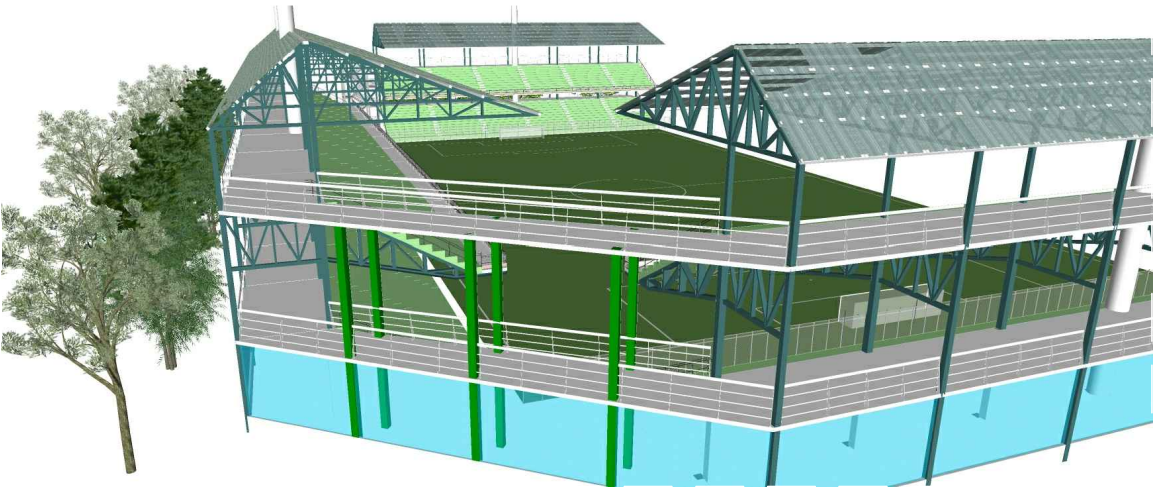
GRADAS DE ACCESO A SECTOR 2 Y 3



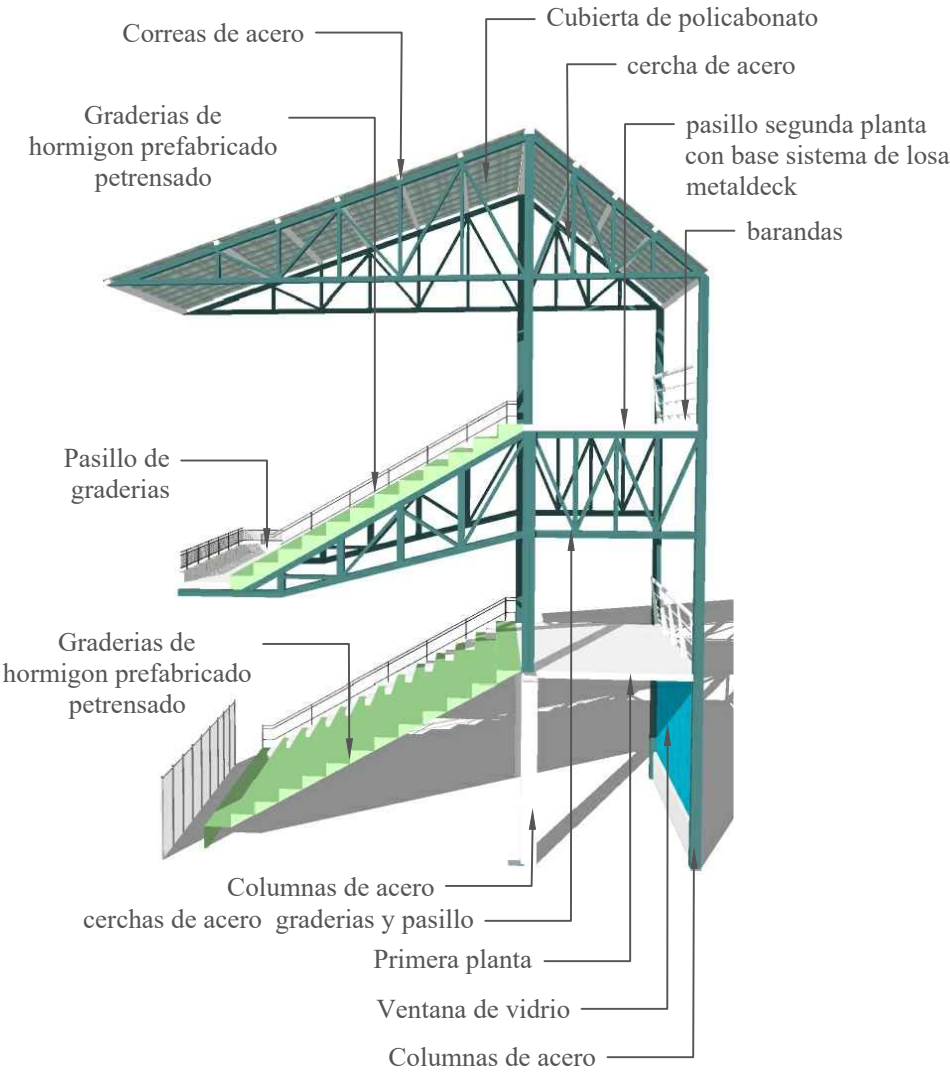
VISTA EN PLANTA



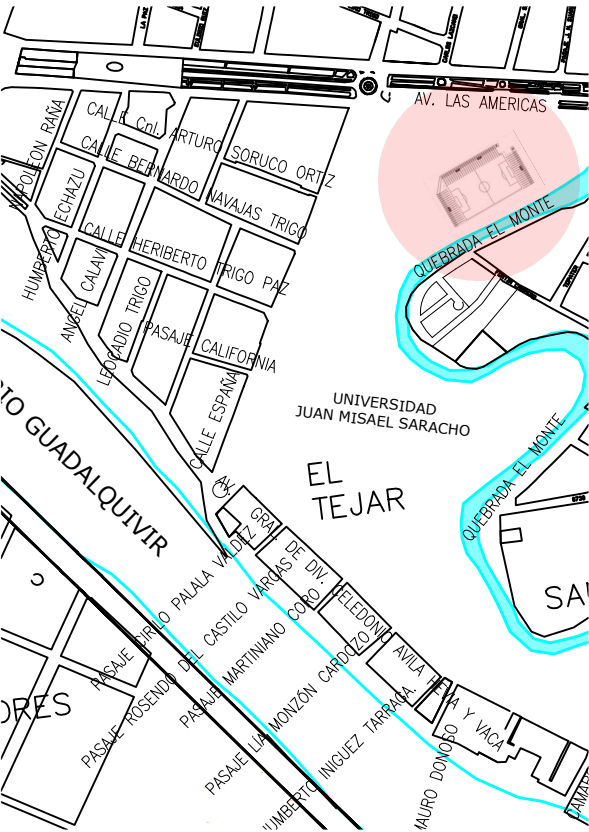
PASILLO DE CONEXION SECTOR 1 Y 2



DETALLAMIENTO DE GALERIA PRINCIPAL



ZONA DE EMPLAZAMIENTO



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



CONTENIDO:
CONFIGURACION ARQUITECTONICA

UNIVERSITARIA:
GALLARDO DIAZ PATRICIA ESTEFANIA

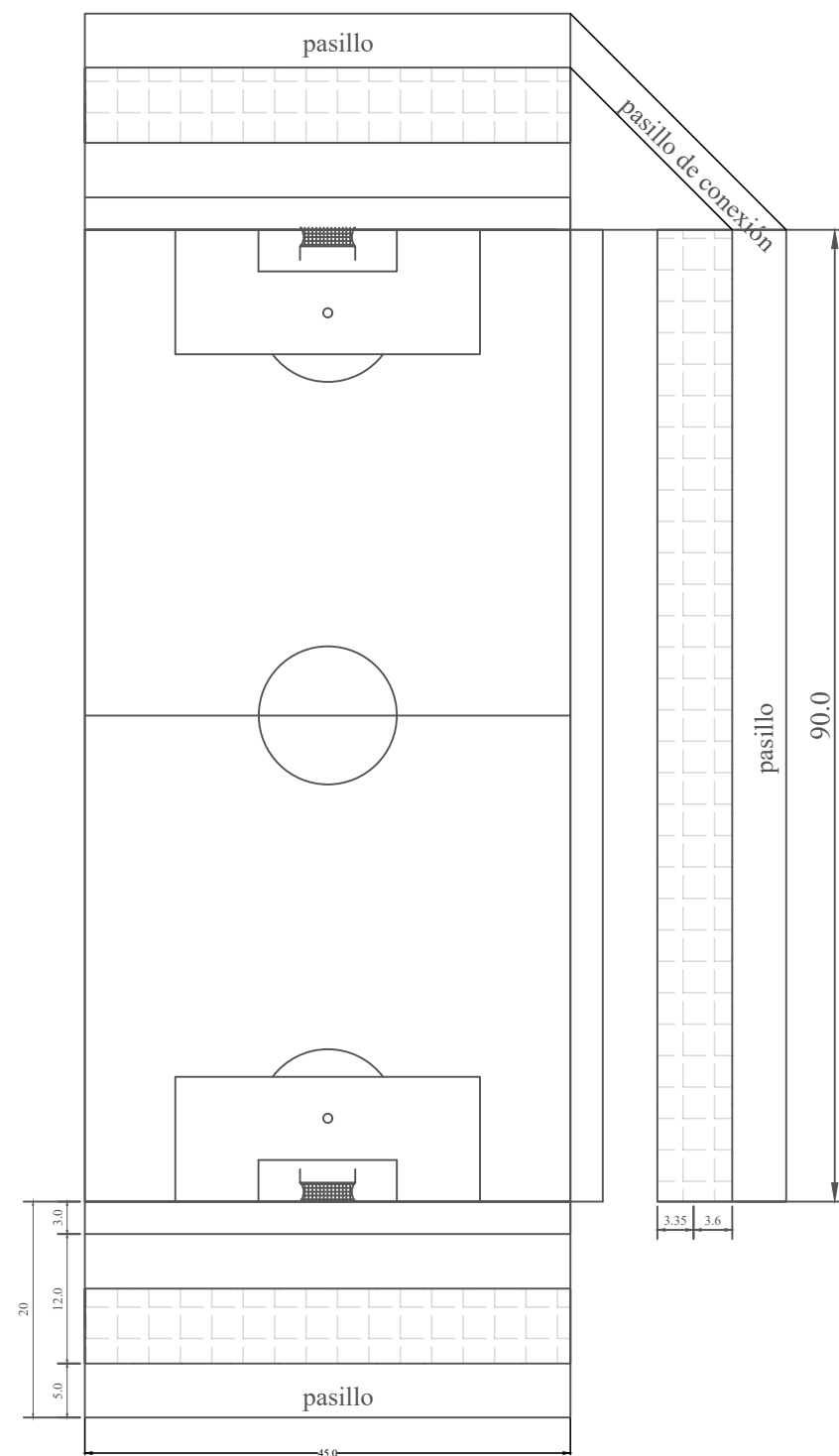
LAMINA:

2

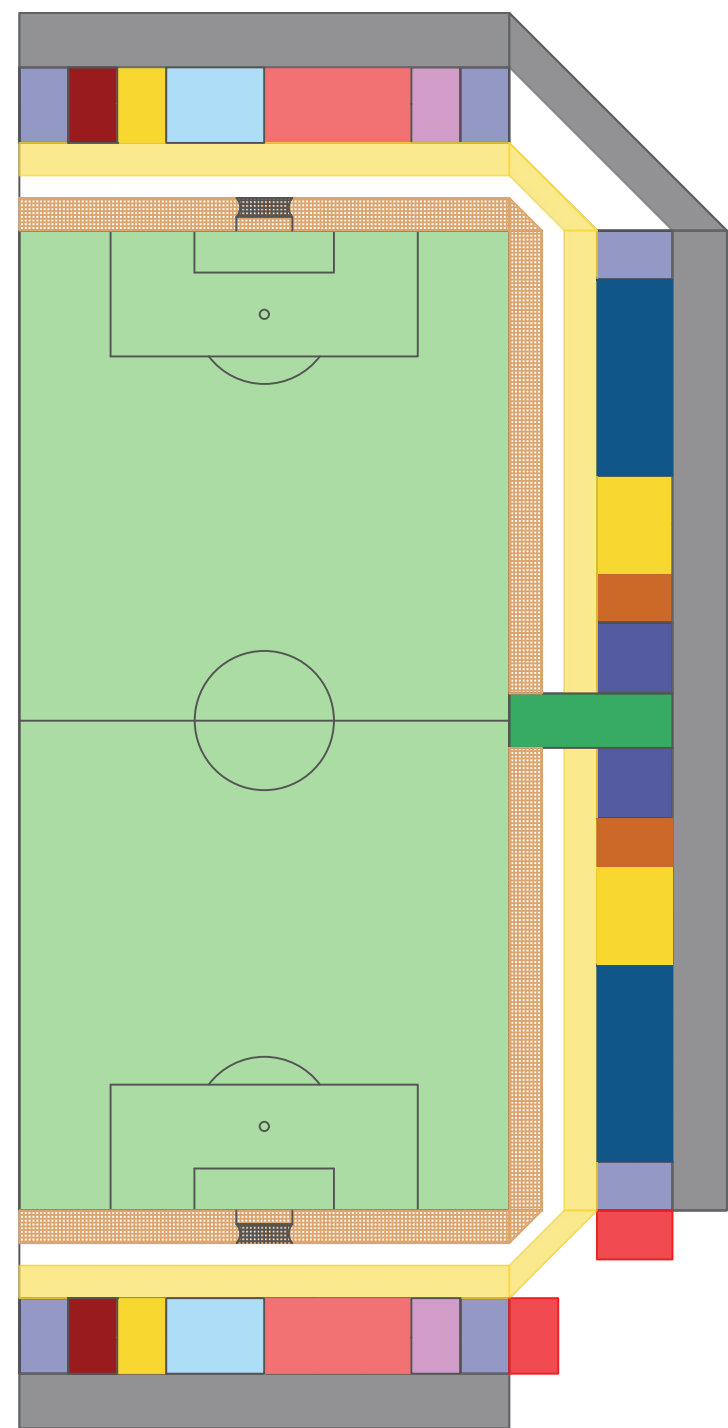
MATERIA:
PROYECTO DE GRADO II

FECHA:
Octubre 2020

CONFIGURACION BASICA

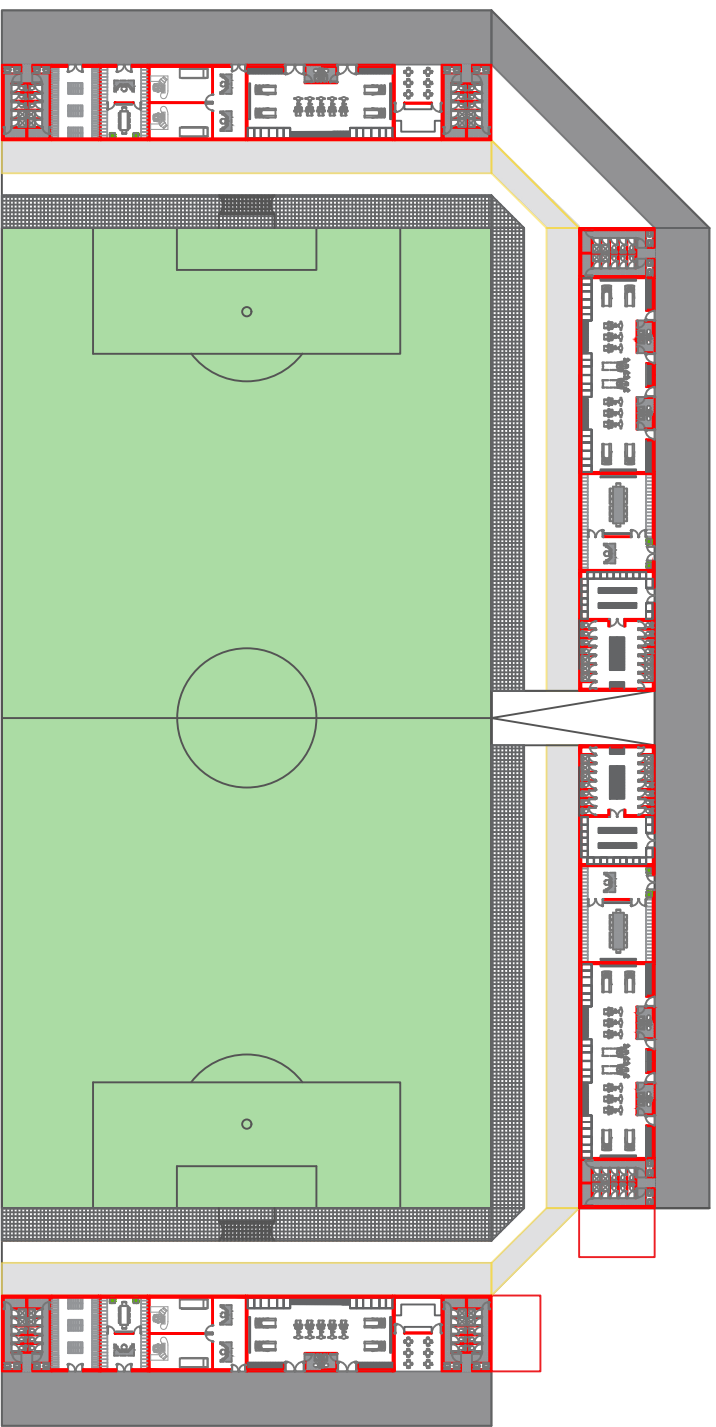


DISTRIBUCION DE LOS ESPACIOS



- PASILLO POSTERIOR
- PASILLO ACCESO GRADERIAS
- ACCESO A CAMPO DE FUTBOL
- CONECTORES VERTICALES
- BAÑOS + DUCHAS
- BAÑOS PRIVADOS + VESTUARIO
- CAMBIADORES
- OFICINA + SALA DE REUNIONES
- GIMNASIO
- DEPOSITO
- ADMINISTRACION
- ENFERMERIA
- GIMNASIO + TALLERES
- BAR + CAFETERIA

EQUIPAMIENTO ARQUITECTONICO



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FACULTAD DE CIENCIAS Y TECNOLOGIA



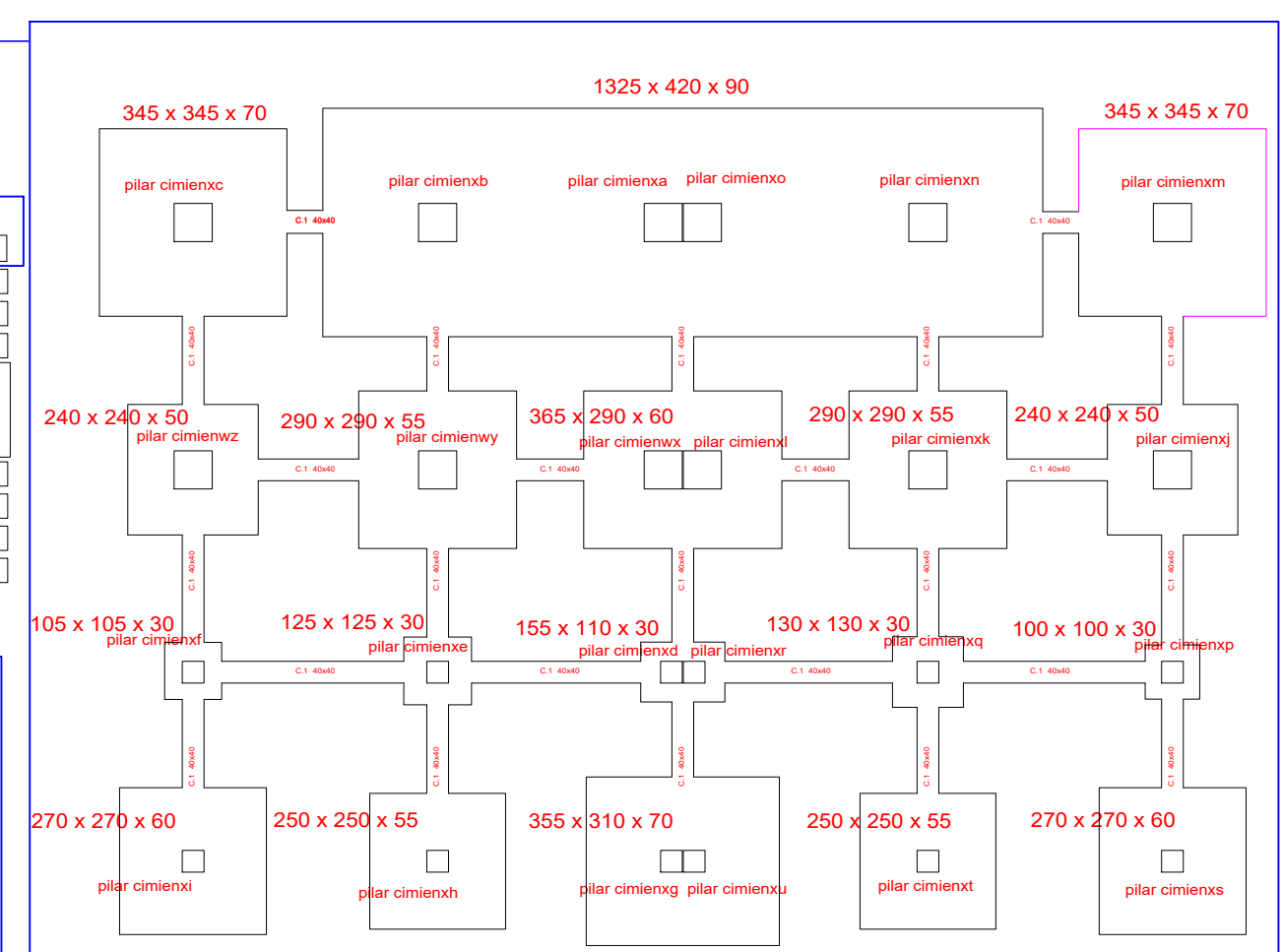
CONTENIDO:
EQUIPAMIENTO ARQUITECTONICO

UNIVERSITARIA:
GALLARDO DIAZ PATRICIA ESTEFANIA

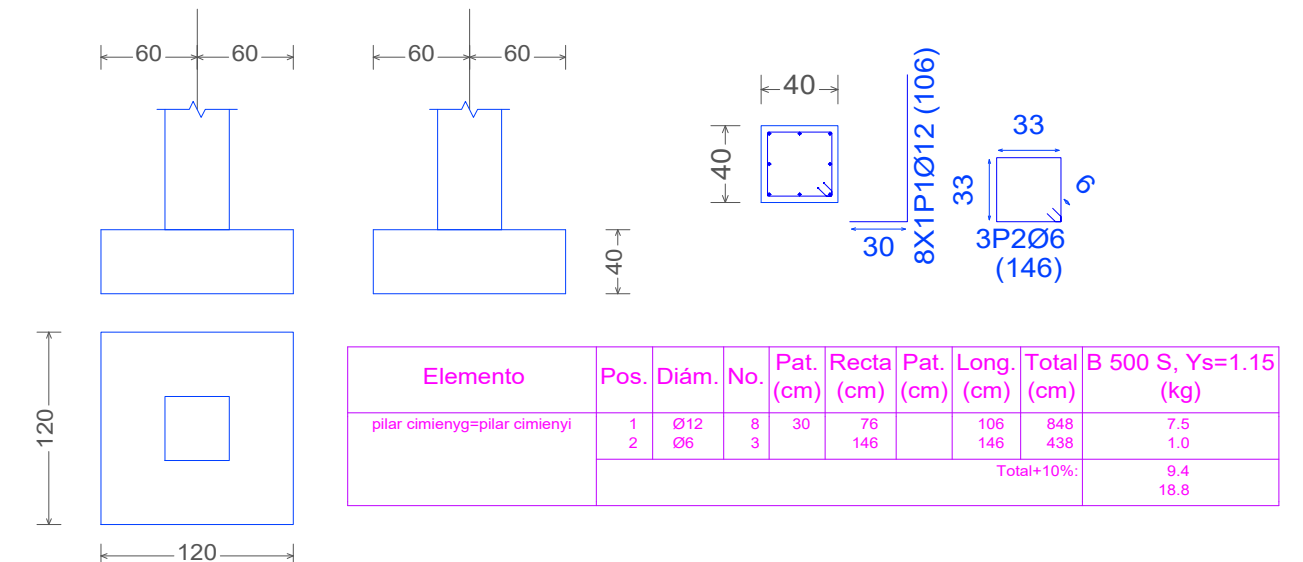
MATERIA:
PROYECTO DE GRADO II

FECHA:
Octubre 2020

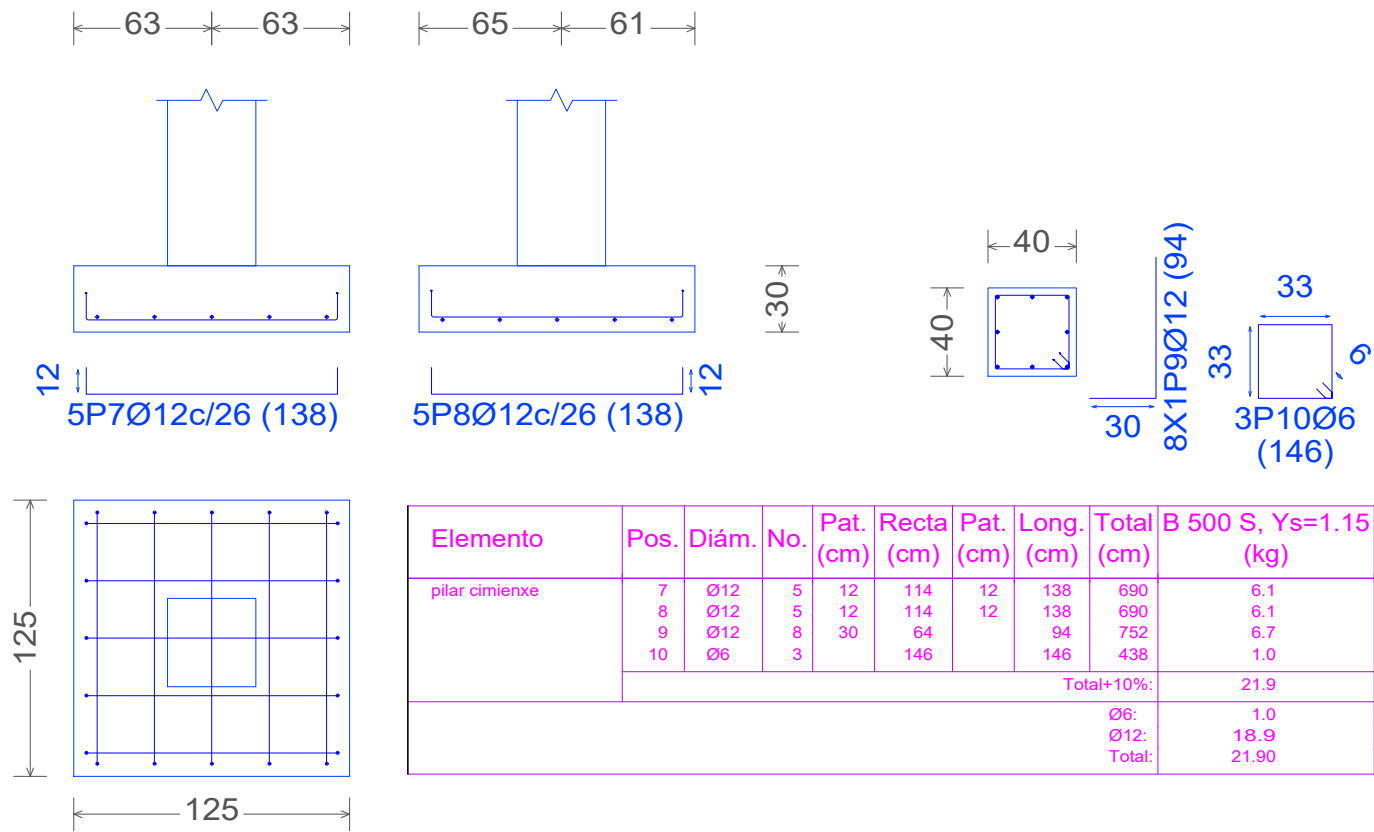
LAMINA:
3



ZAPATA 5

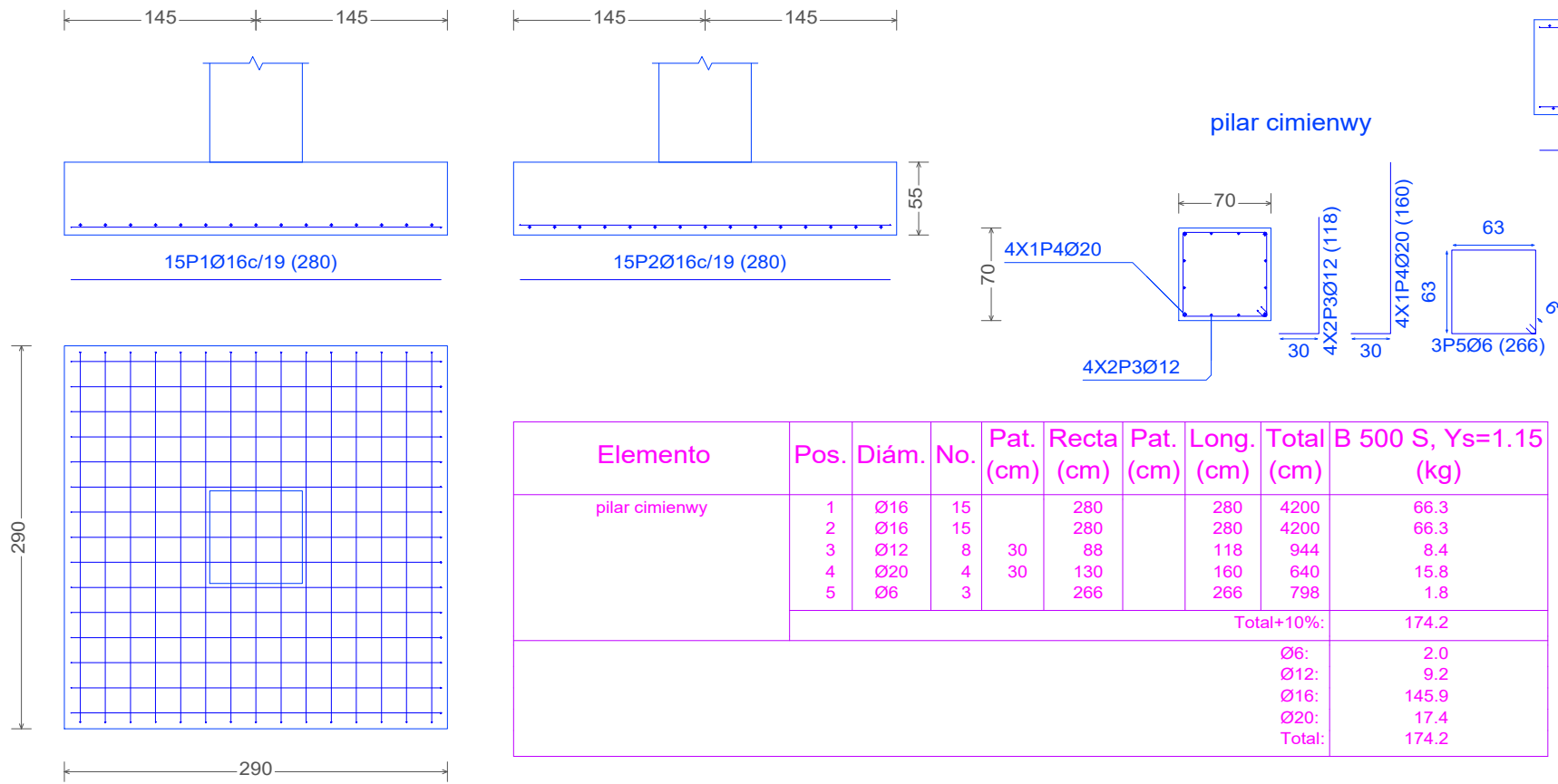
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ZAPATA 3 Y 4



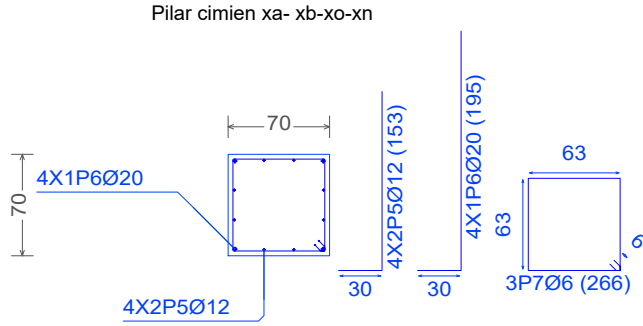
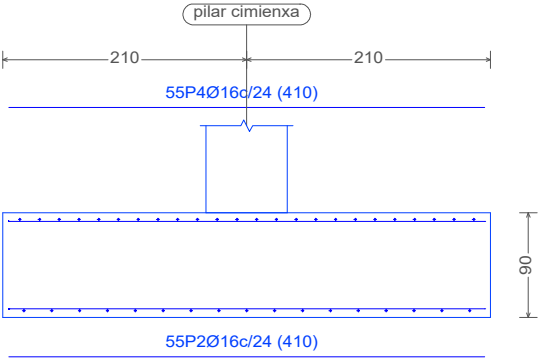
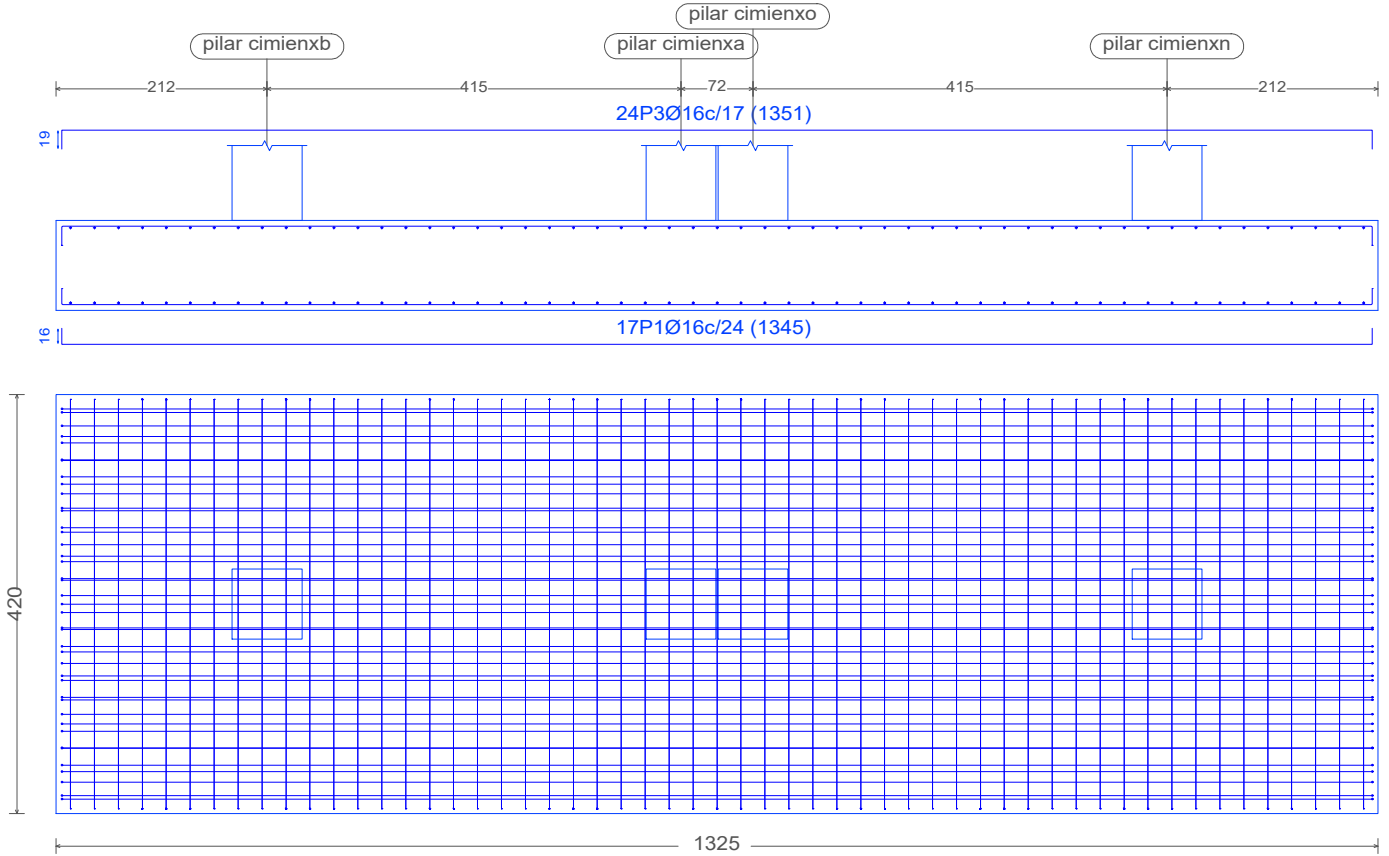
Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
pilar cimienxe	7	Ø12	5	12	114	12	138	690	6.1
	8	Ø12	5	12	114	12	138	690	6.1
	9	Ø12	8	30	64		94	752	6.7
	10	Ø6	3		146		146	438	1.0
Total+10%:									21.9
Ø6:									1.0
Ø12:									18.9
Total:									21.90

ZAPATA 2



Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
pilar cimienwy	1	Ø16	15		280		280	4200	66.3
	2	Ø16	15		280		280	4200	66.3
	3	Ø12	8	30	88		118	944	8.4
	4	Ø20	4	30	130		160	640	15.8
	5	Ø6	3		266		266	798	1.8
Total+10%:									174.2
Ø6:									2.0
Ø12:									9.2
Ø16:									145.9
Ø20:									17.4
Total:									174.2

ZAPATA CORRIDA



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



CONTENIDO:
DETALLES DE ZAPATAS

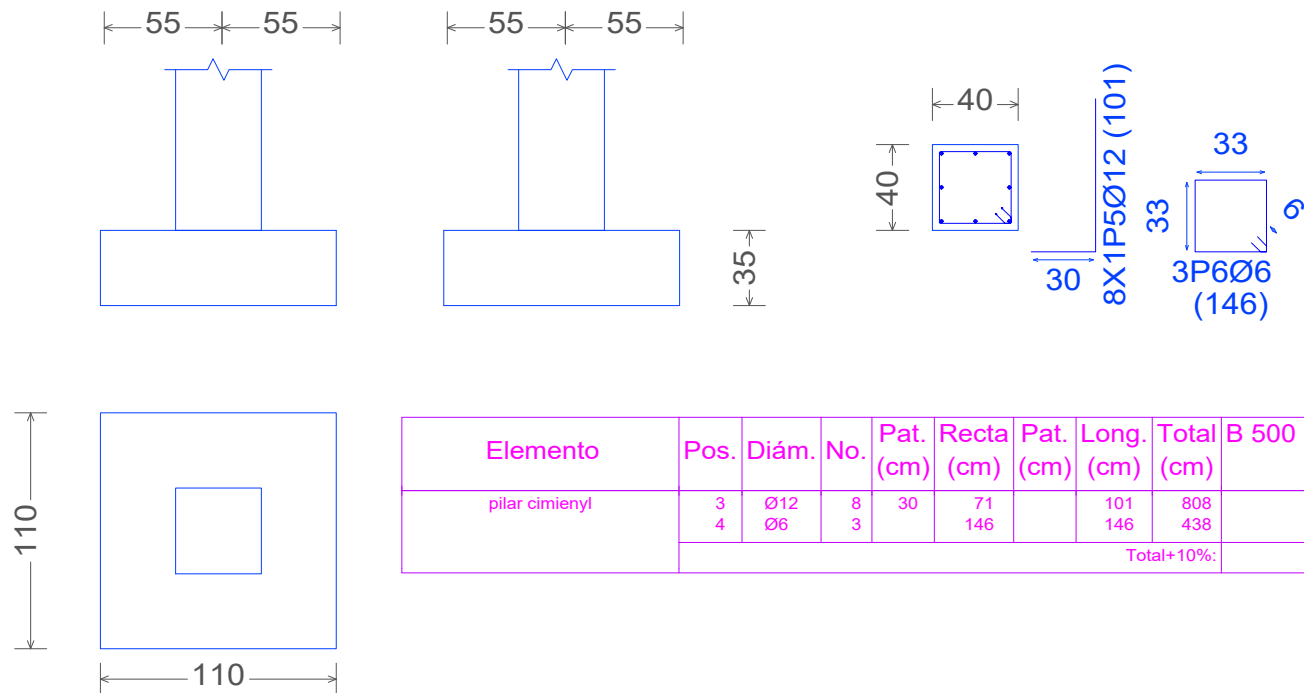
UNIVERSITARIA:
GALLARDO DIAZ PATRICIA ESTEFANIA

LAMINA:
5

MATERIA:
PROYECTO DE GRADO II

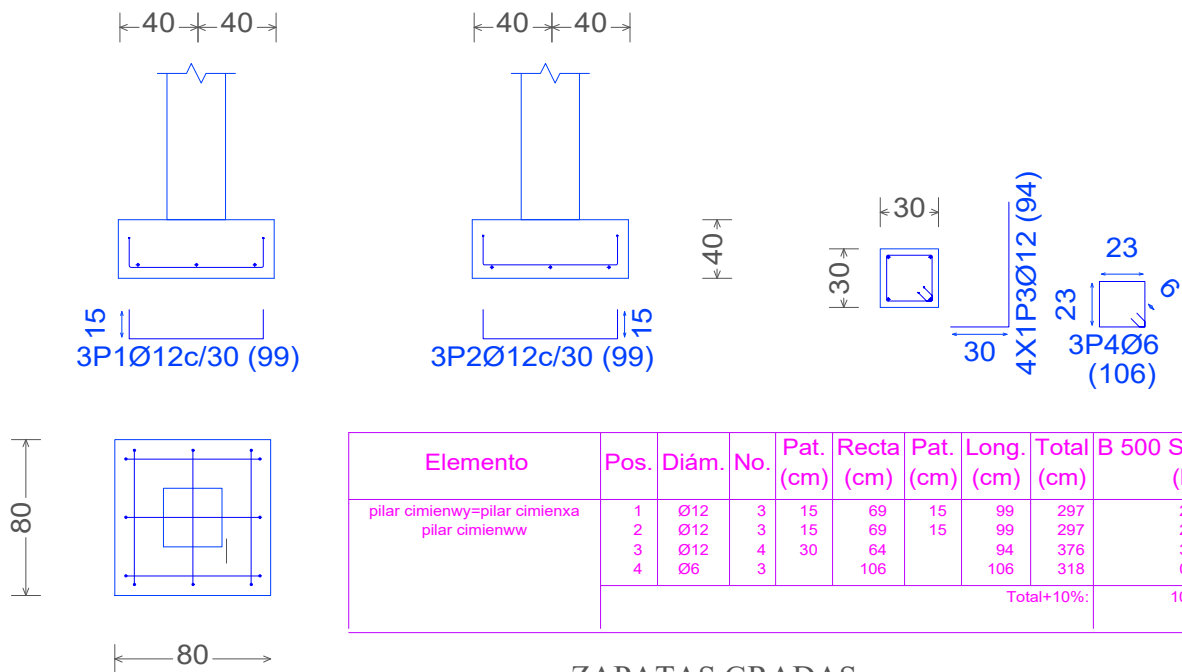
FECHA:
Octubre 2020

ZAPATA 6



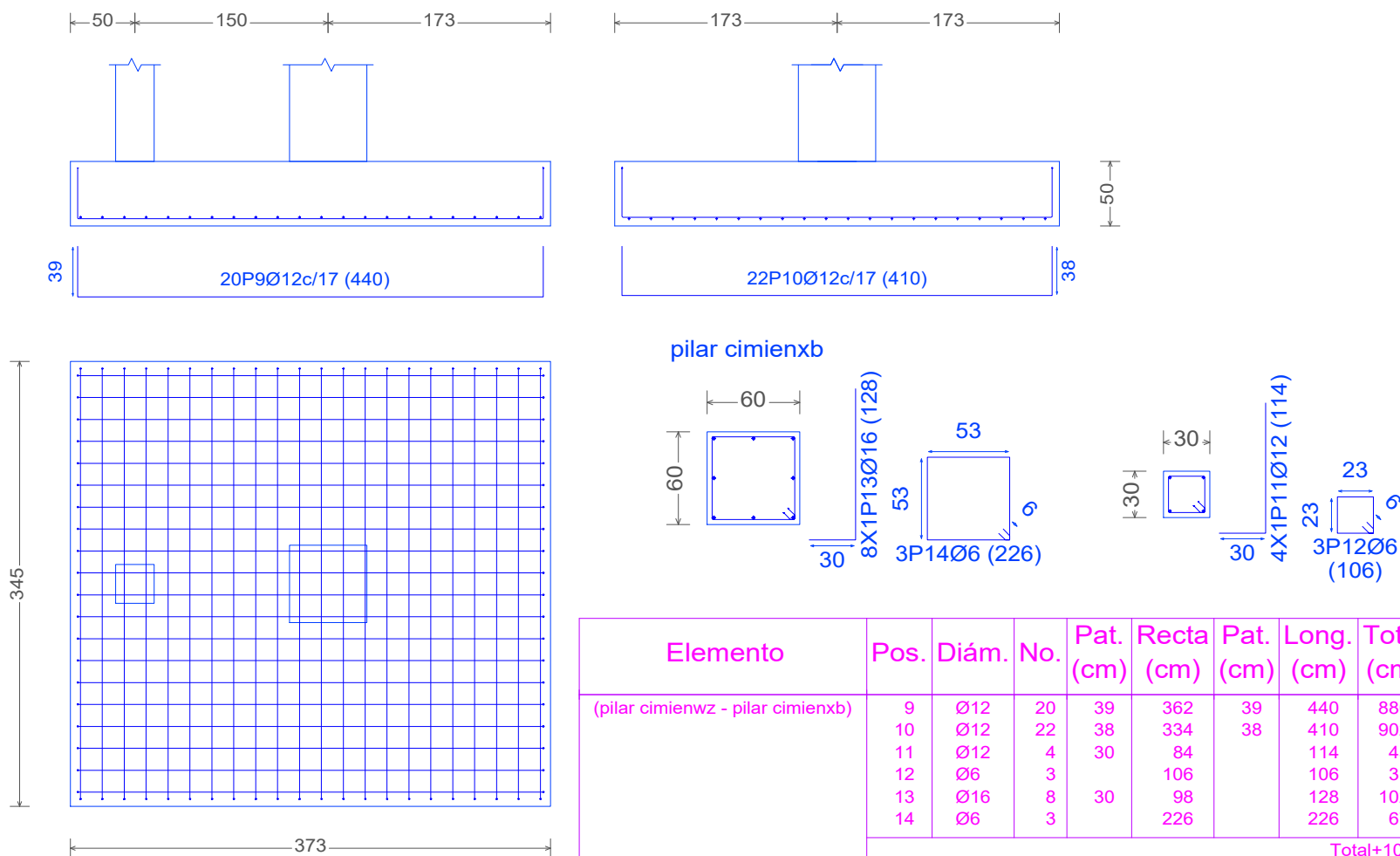
Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
pilar cimienyl	3	Ø12	8	30	71		101	808	7.2
	4	Ø6	3		146		146	438	1.0
	Total+10%:								9.0

ZAPATA 8 Y 9



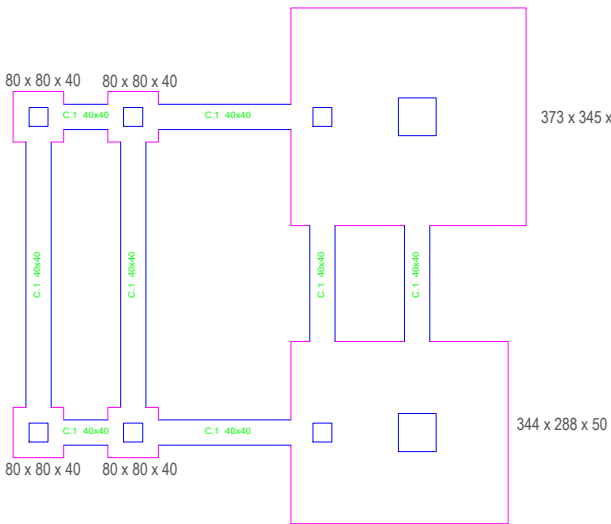
Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
pilar cimienwy=pilar cimienxa pilar cimienww	1	Ø12	3	15	69	15	99	297	2.6
	2	Ø12	3	15	69	15	99	297	2.6
	3	Ø12	4	30	64		94	376	3.3
	4	Ø6	3		106		106	318	0.7
Total+10%:									10.1

ZAPATA 7



Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
(pilar cimienwz - pilar cimienxb)	9	Ø12	20	39	362	39	440	8800	78.1
	10	Ø12	22	38	334	38	410	9020	80.1
	11	Ø12	4	30	84		114	456	4.0
	12	Ø6	3		106		106	318	0.7
	13	Ø16	8	30	98		128	1024	16.2
	14	Ø6	3		226		226	678	1.5
	Total+10%:								198.7

ZAPATAS GRADAS



Cuadro de arranques	
Referencias	Armados Esquinas
pilar cimienwy, pilar cimienxc, pilar cimienxa, pilar cimienww, pilar cimienwz y pilar cimienwv	4Ø12
pilar cimienxb	8Ø16
pilar cimienwu	4Ø20 8Ø12

CUADRO DE VIGAS DE ATADO	
40	C.1
40	Arm. sup.: 2Ø12
	Arm. inf.: 2Ø12
	Estridos: 1xØ8c/30

Resumen Acero Elemento y Viga		Long. total (m)	Peso+10% (kg)	Total
B 500 S, Ys=1.15	Ø6	33.8	8	
	Ø8	111.7	48	
	Ø12	352.7	344	
	Ø16	135.3	235	
	Ø20	6.2	17	652

UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



CONTENIDO:
DETALLES DE ZAPATAS DE GRADAS

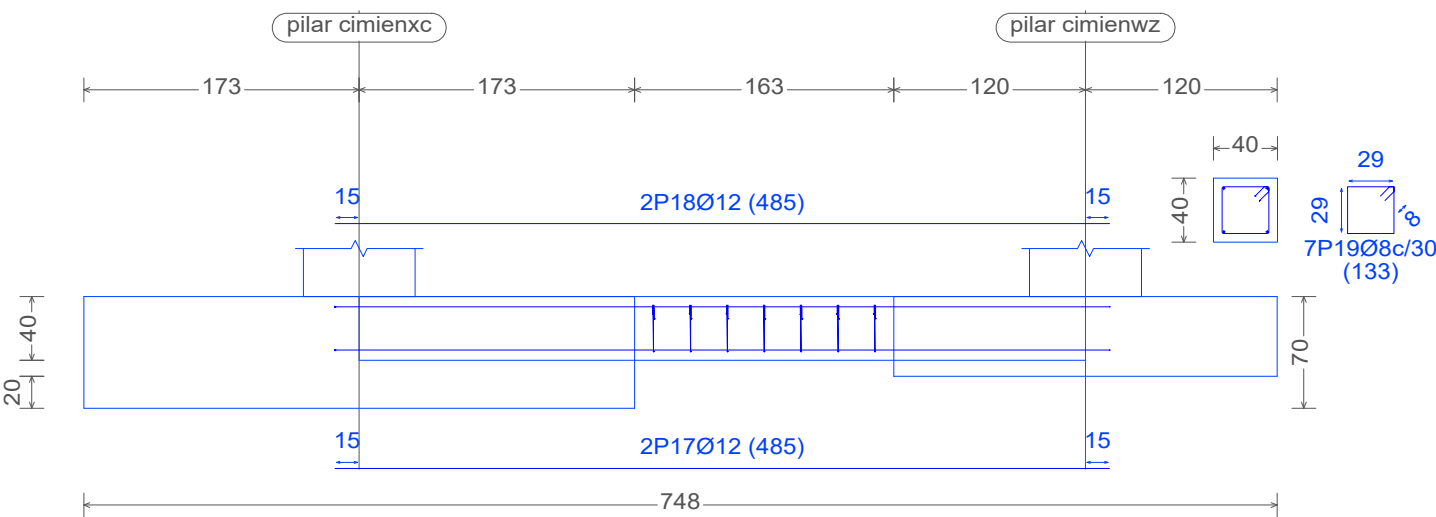
UNIVERSITARIA:
GALLARDO DIAZ PATRICIA ESTEFANIA

LAMINA:
6

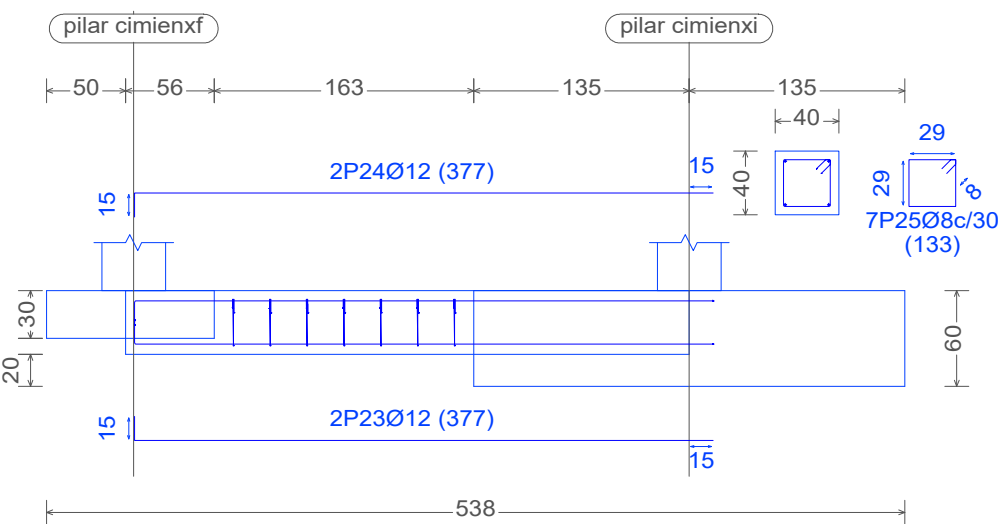
MATERIA:
PROYECTO DE GRADO II

FECHA:
Octubre 2020

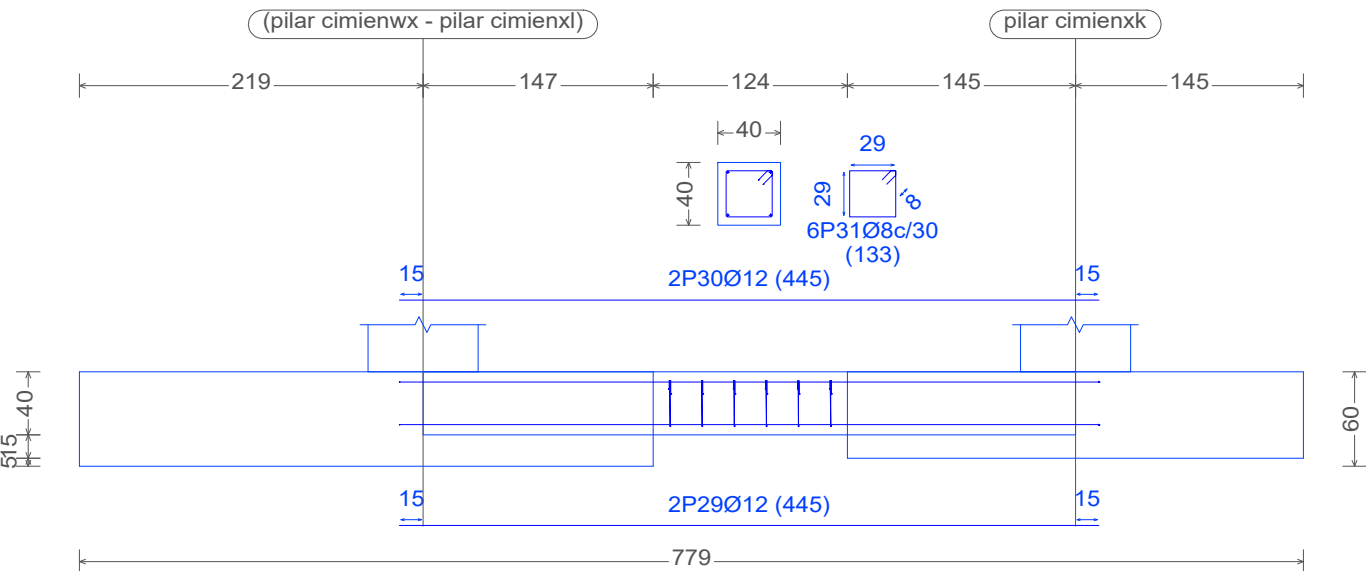
VIGA DE ENCADENADO 1



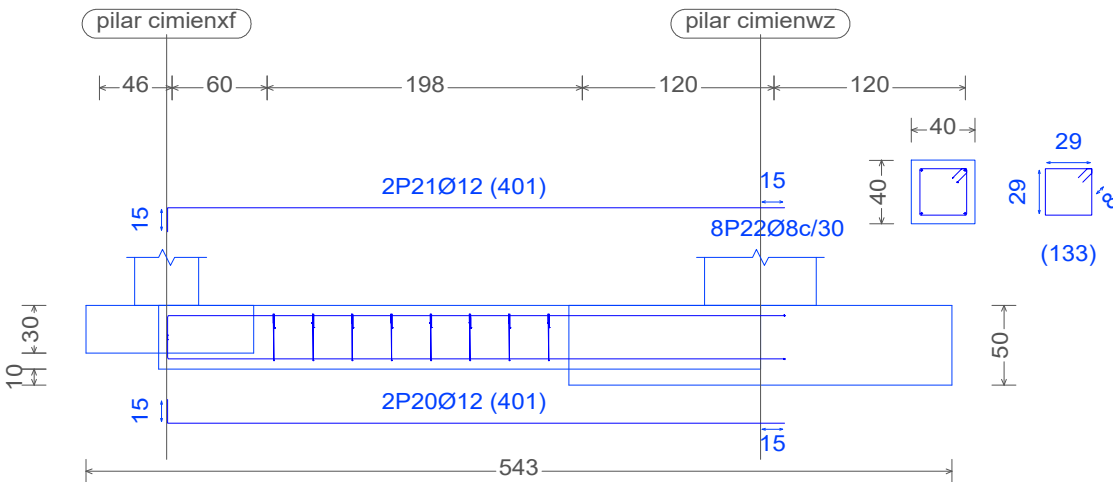
VIGA DE ENCADENADO 3



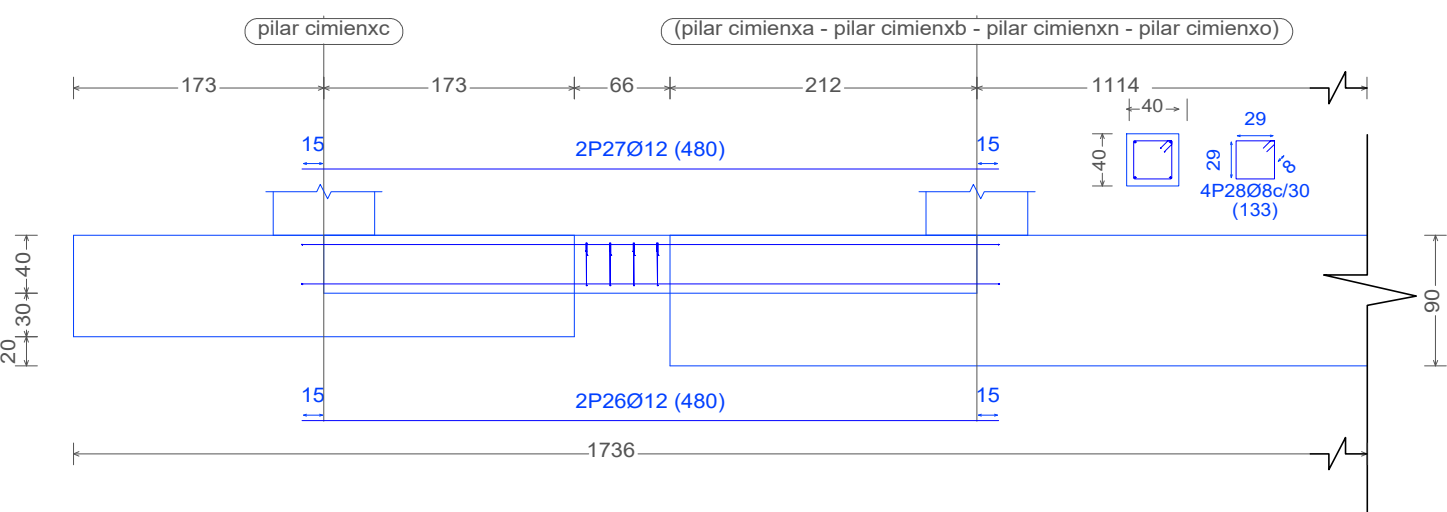
VIGA DE ENCADENADO 5



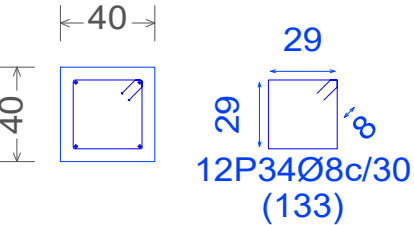
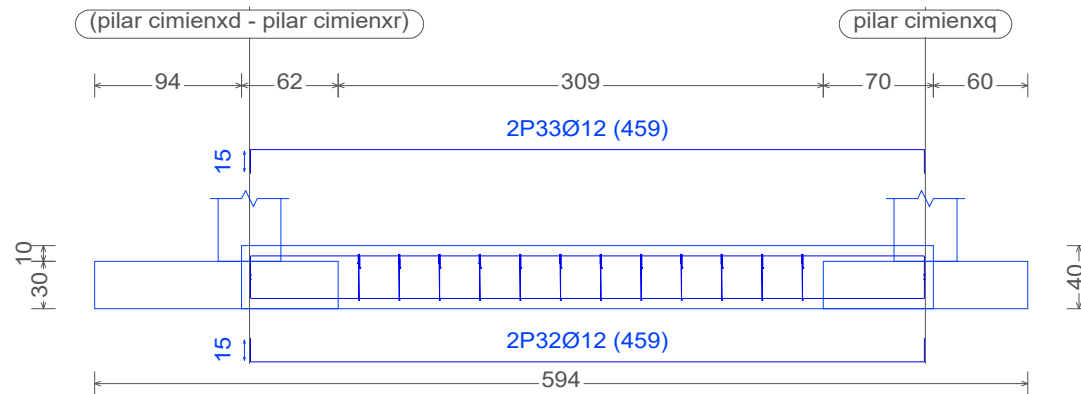
VIGA DE ENCADENADO 2



VIGA DE ENCADENADO 4



VIGA DE ENCADENADO 6



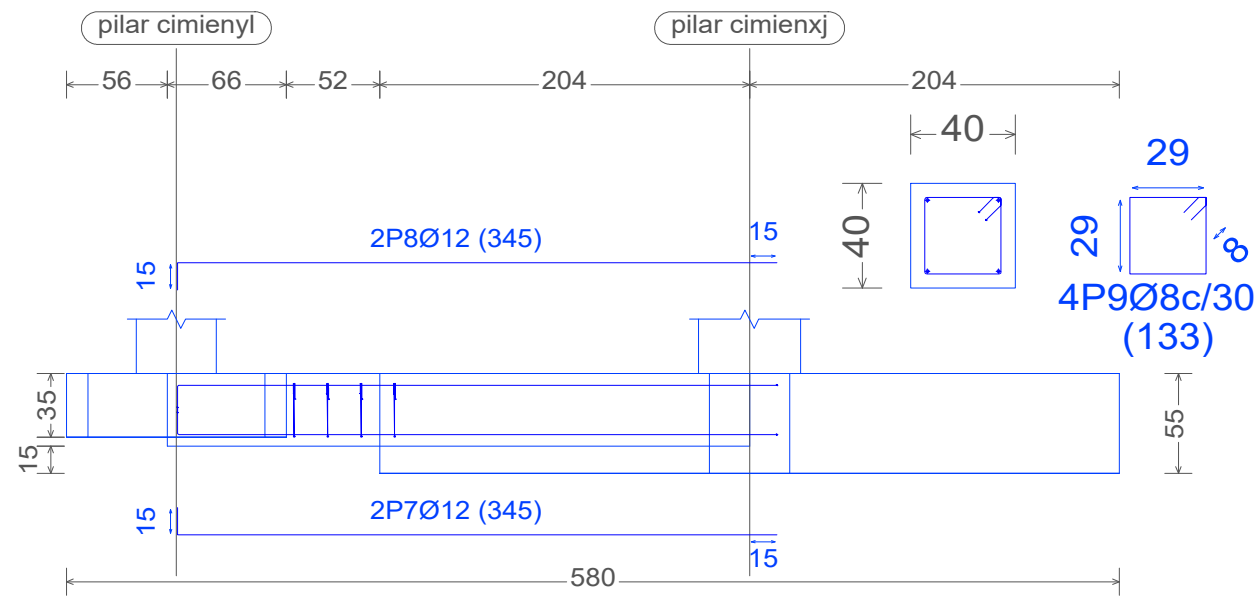
UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



CONTENIDO:
DETALLES DE VIGAS DE ENCADENADO

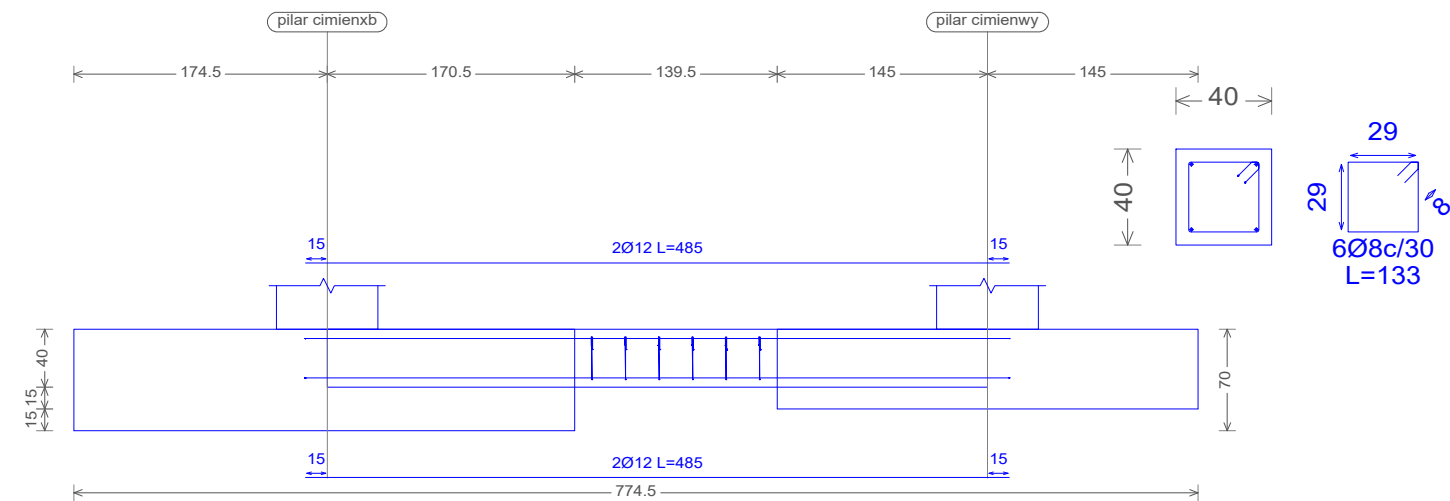
UNIVERSITARIA:	GALLARDO DIAZ PATRICIA ESTEFANIA	LAMINA:	7
MATERIA:	PROYECTO DE GRADO II	FECHA:	Octubre 2020

VIGA DE ENCADENADO 6D



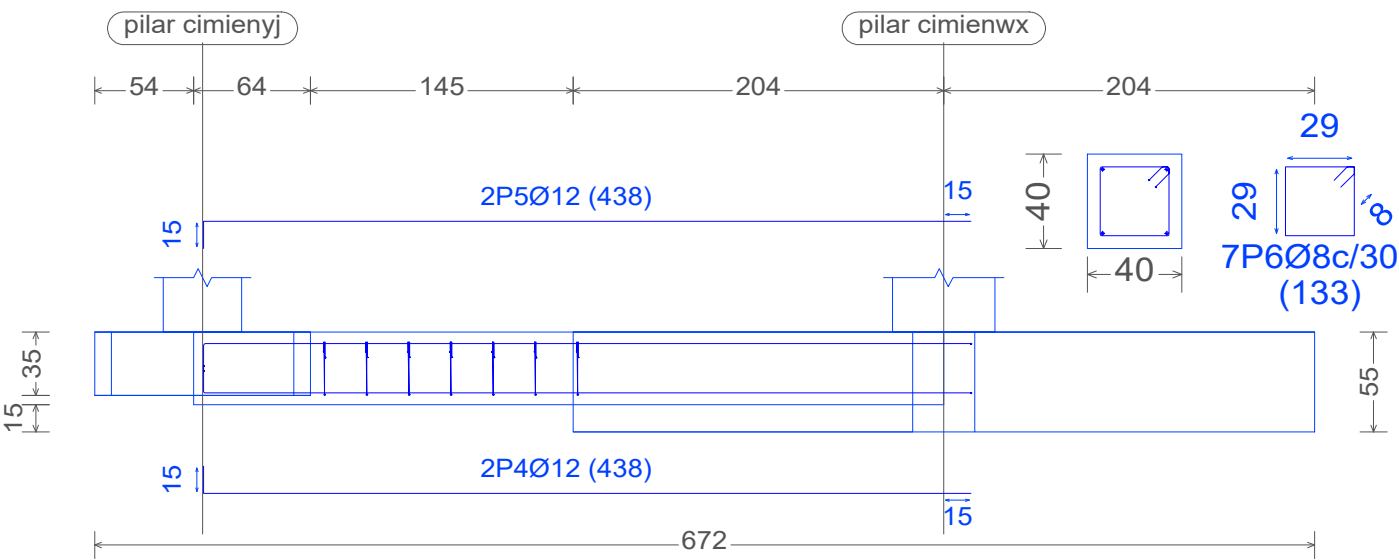
Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
V6D	7	Ø12	2	15	330		345	690	6.1
	8	Ø12	2	15	330		345	690	6.1
	9	Ø8	4		133		133	532	2.1
	Total+10%:								15.7

VIGA DE ENCADENADO 1-2



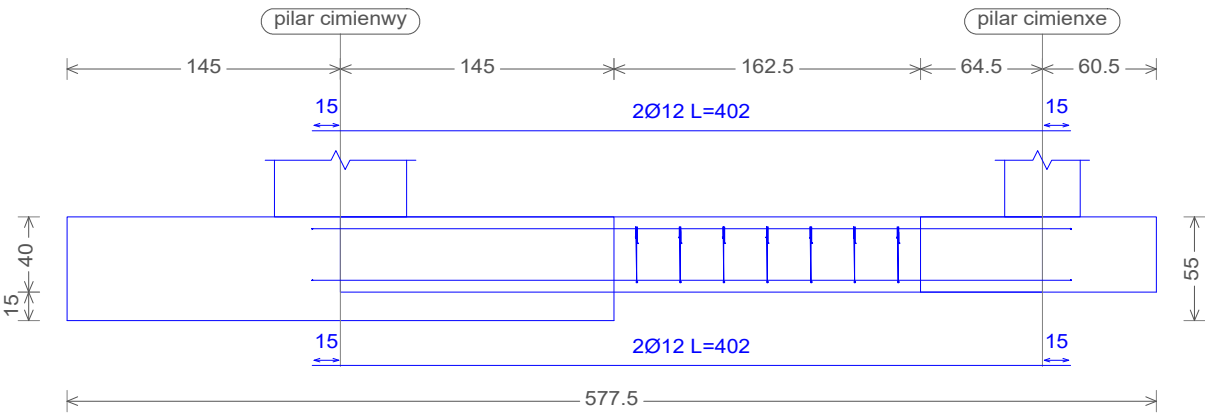
Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
V1-2	1	Ø12	2		485		485	970	9.5
	2	Ø12	2		485		485	970	9.5
	3	Ø8	6		133		133	798	3.5
	Total+10%:								22.4

VIGA DE ENCADENADO 6A

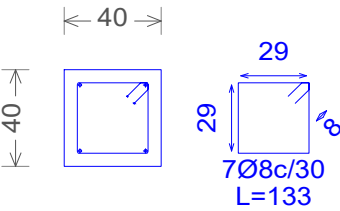


Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
C [pilar cimienyj-pilar cimienwx]	4	Ø12	2	15	423		438	876	7.8
	5	Ø12	2	15	423		438	876	7.8
	6	Ø8	7		133		133	931	3.7
	Total+10%:								21.2

VIGA DE ENCADENADO 2-3



Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
V2-3	1	Ø12	2		402		402	804	7.8
	2	Ø12	2		402		402	804	7.8
	3	Ø8	7		133		133	931	4.0
	Total+10%:								19.7



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



CONTENIDO:

VIGAS DE ENCADENADO

UNIVERSITARIA:

GALLARDO DIAZ PATRICIA ESTEFANIA

LAMINA:

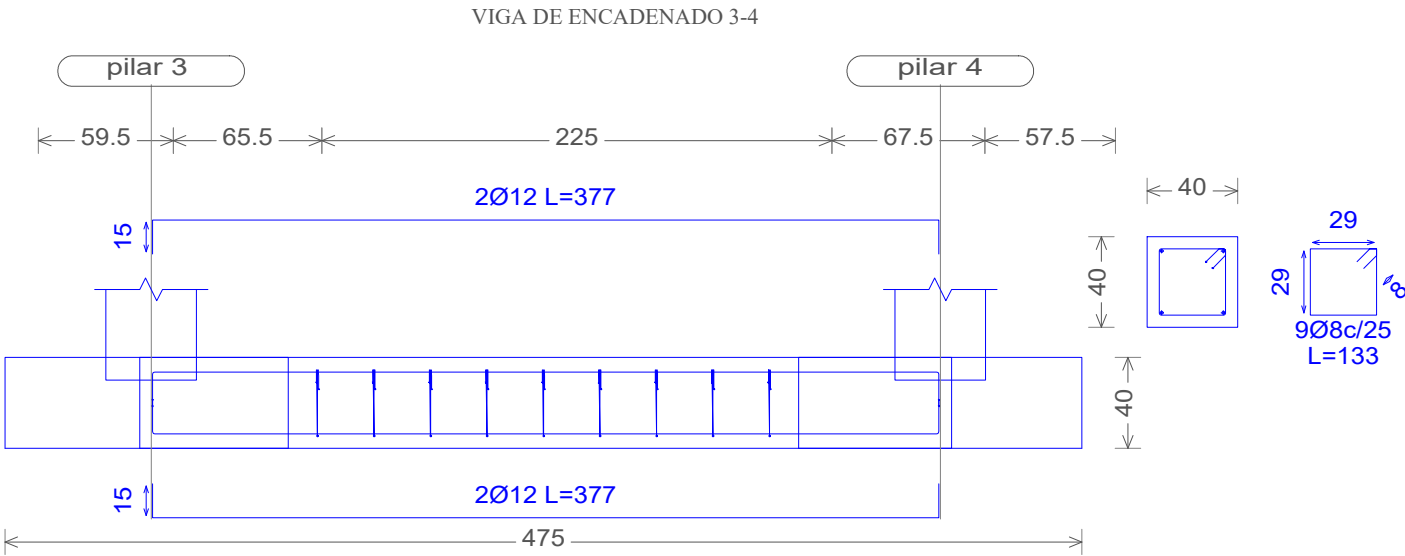
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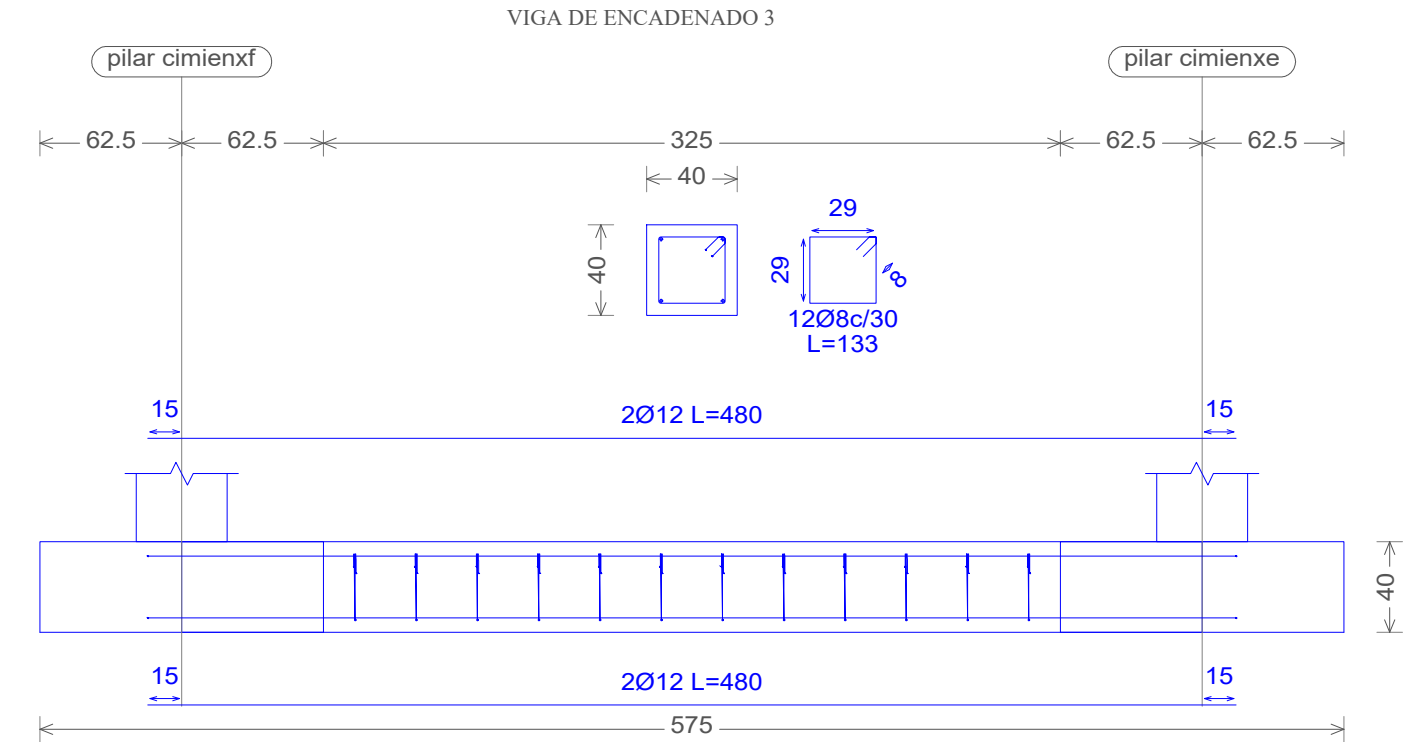
PROYECTO DE GRADO II

FECHA:

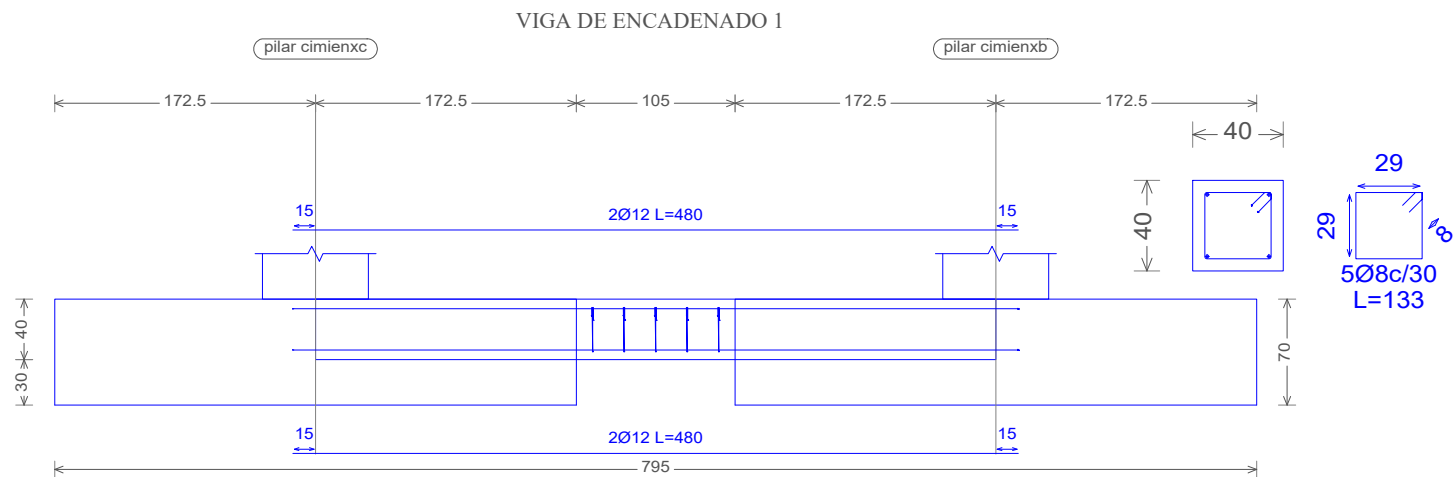
Octubre 2020



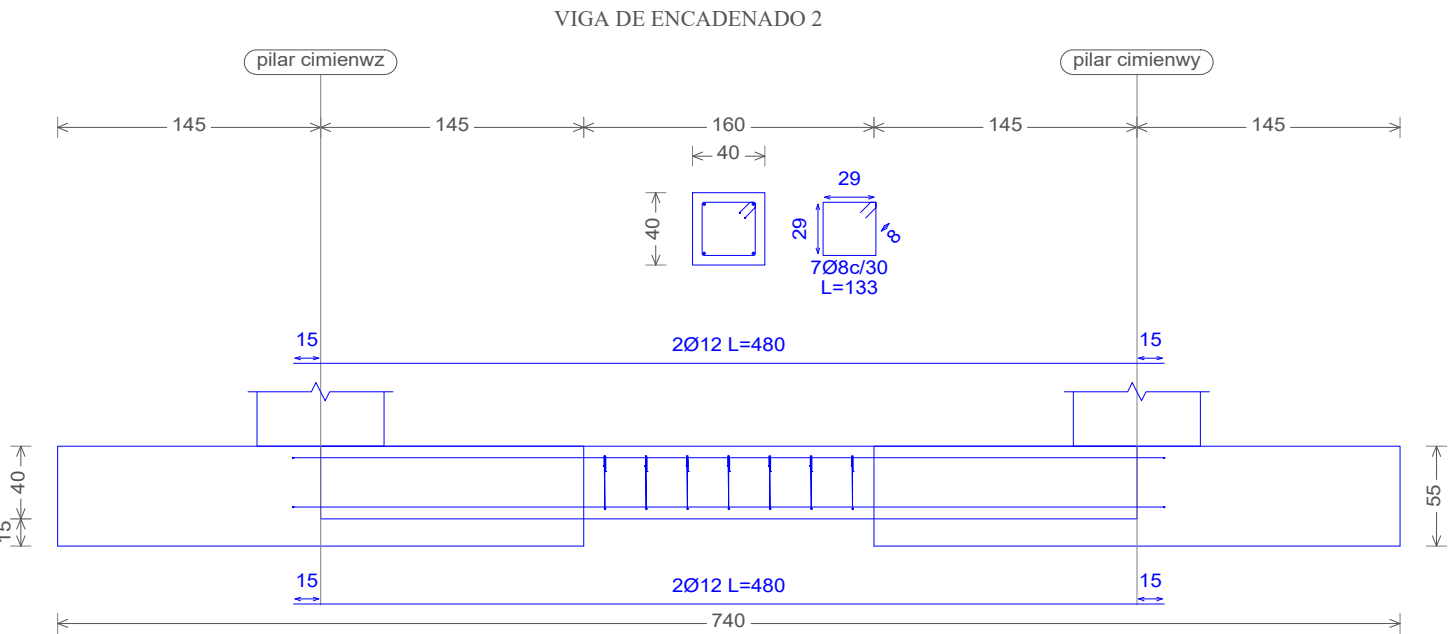
Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
V3-4	1	Ø12	2		377		377	754	7.4
	2	Ø12	2		377		377	754	7.4
	3	Ø8	9		133		133	1197	5.2
	Total+10%:								19.9



Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
V3	1	Ø12	2		480		480	960	9.4
	2	Ø12	2		480		480	960	9.4
	3	Ø8	12		133		133	1596	6.9
	Total+10%:								25.8



Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
V1	1	Ø12	2		480		480	960	9.4
	2	Ø12	2		480		480	960	9.4
	3	Ø8	5		133		133	665	2.9
	Total+10%:								21.6



Elemento	Pos.	Diám.	No.	Pat. (cm)	Recta (cm)	Pat. (cm)	Long. (cm)	Total (cm)	B 500 S, Ys=1.15 (kg)
V2	1	Ø12	2		480		480	960	9.4
	2	Ø12	2		480		480	960	9.4
	3	Ø8	7		133		133	931	4.0
	Total+10%:								22.8

UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



CONTENIDO:

DETALLES DE VIGAS DE ENCADENADO

UNIVERSITARIA:

GALLARDO DIAZ PATRICIA ESTEFANIA

LAMINA:

9

MATERIA:

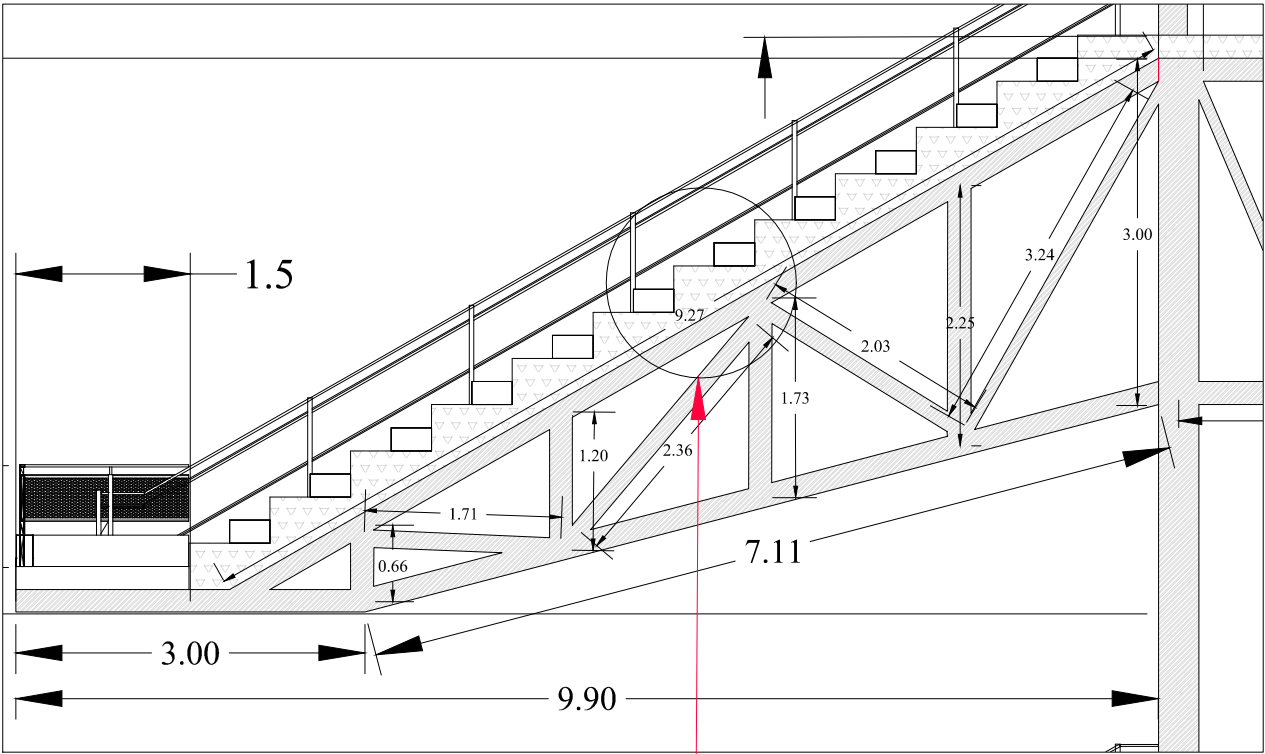
PROYECTO DE GRADO II

FECHA:

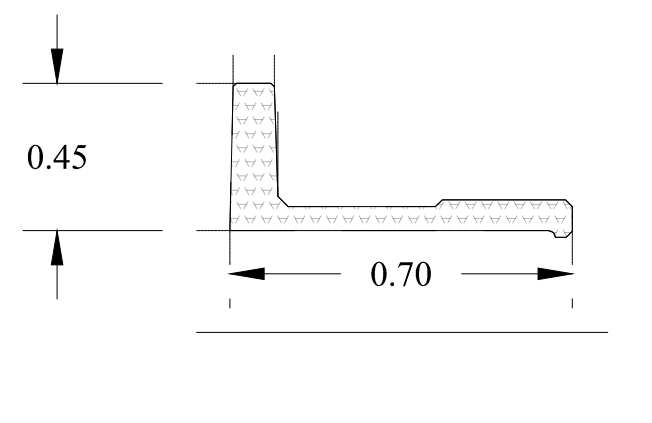
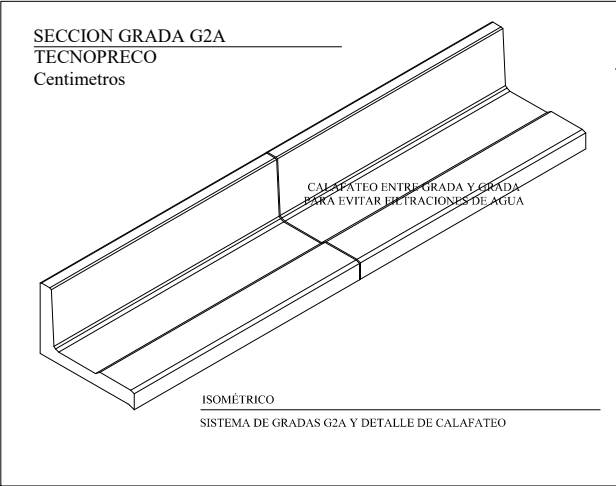
Octubre 2020



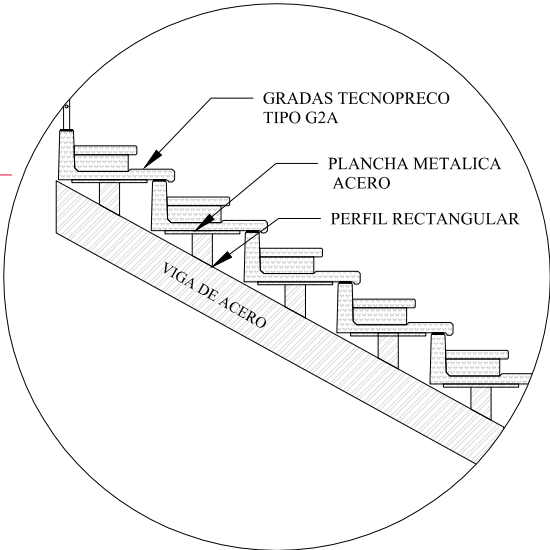
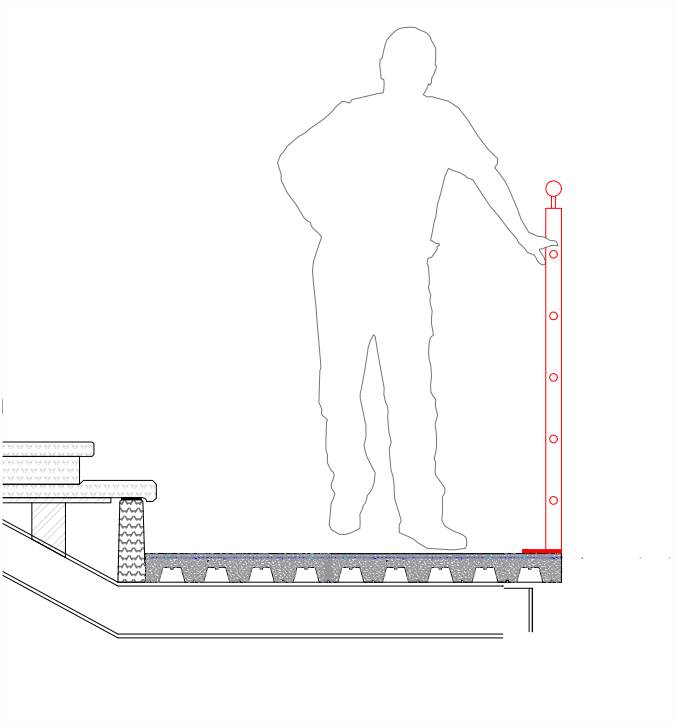
LONGITUDES DE BARRAS CERCHA DE GRADERIAS



GRADERIA TECNOPRECO G2A



LONGITUDES DE BARRAS CERCHA DE GRADERIAS



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



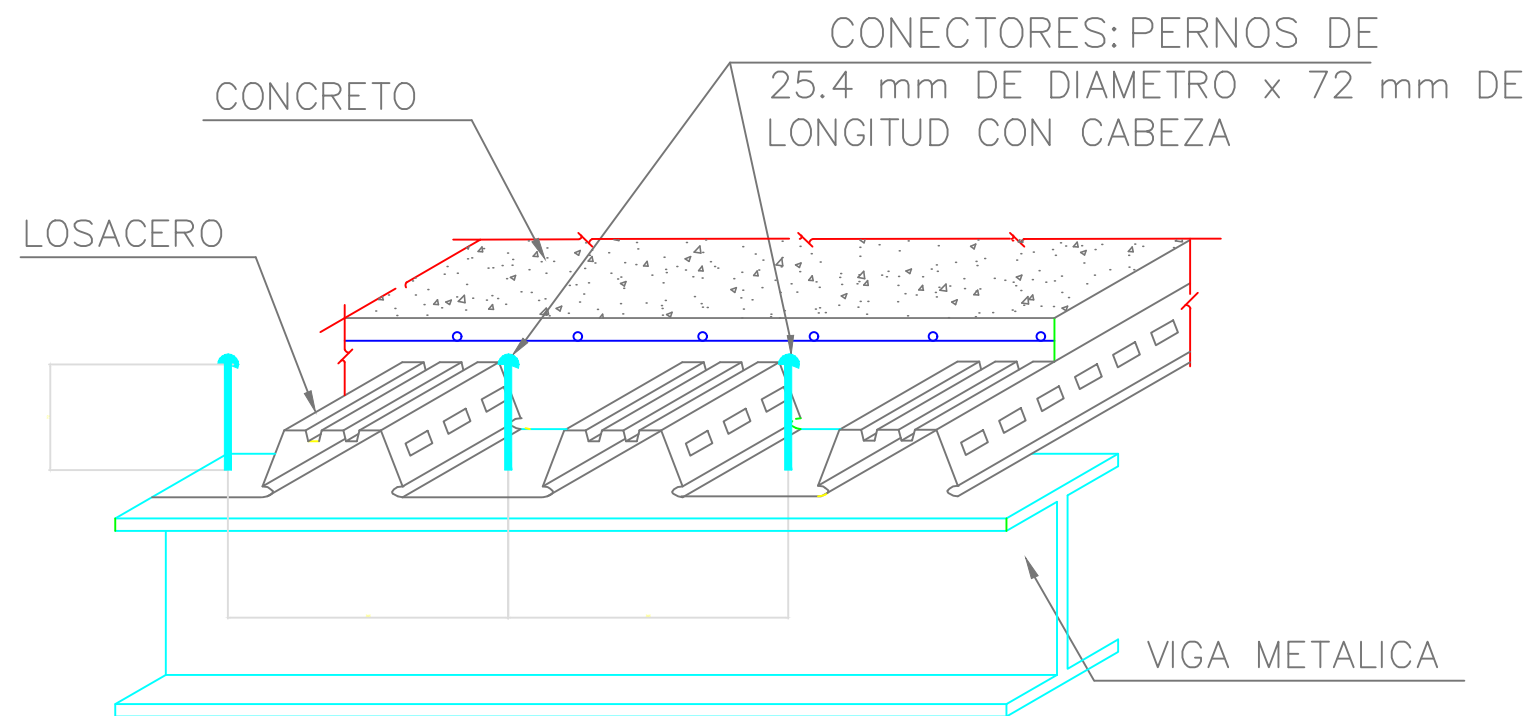
CONTENIDO:
GRADERIAS

UNIVERSITARIA:
GALLARDO DIAZ PATRICIA ESTEFANIA

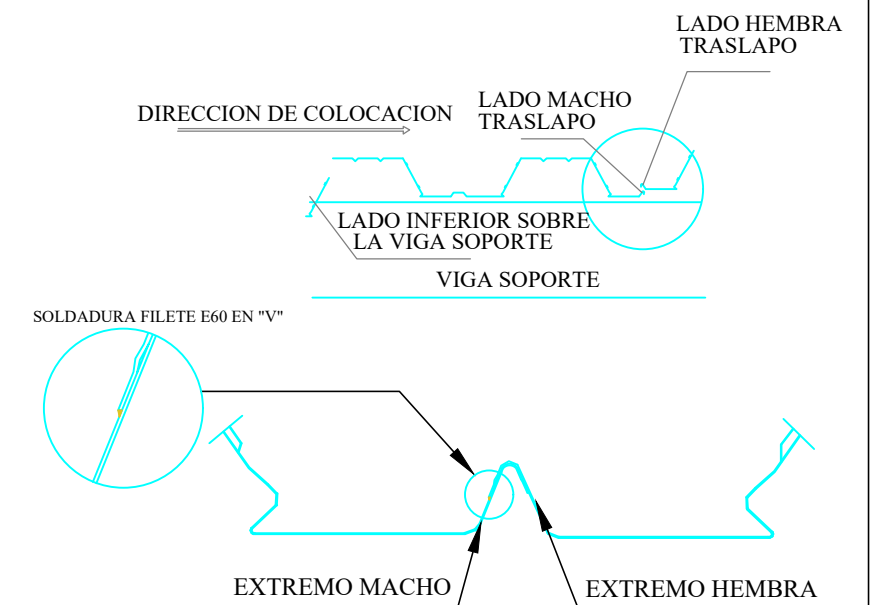
LAMINA:
10

MATERIA:
PROYECTO DE GRADO II

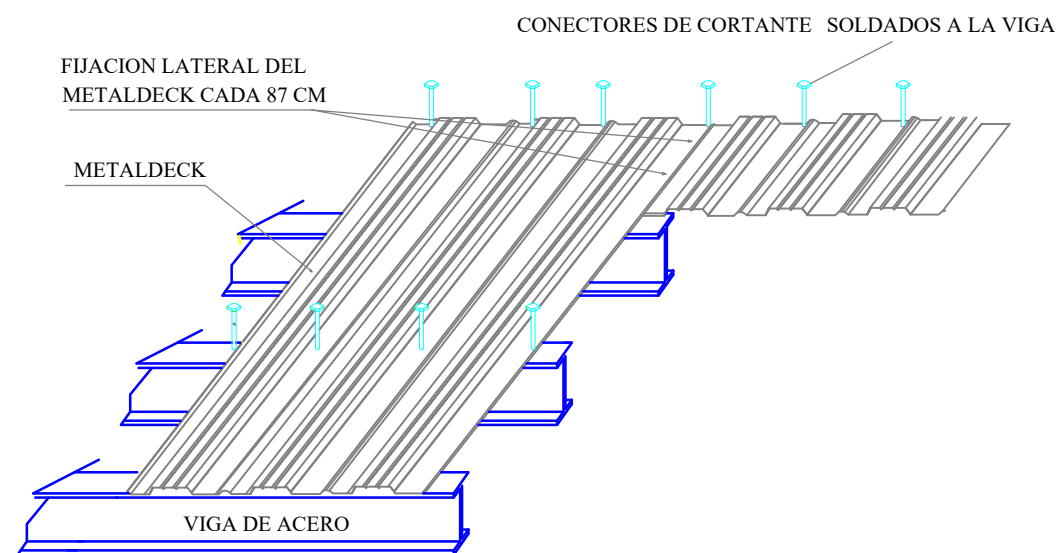
FECHA:
Octubre 2020



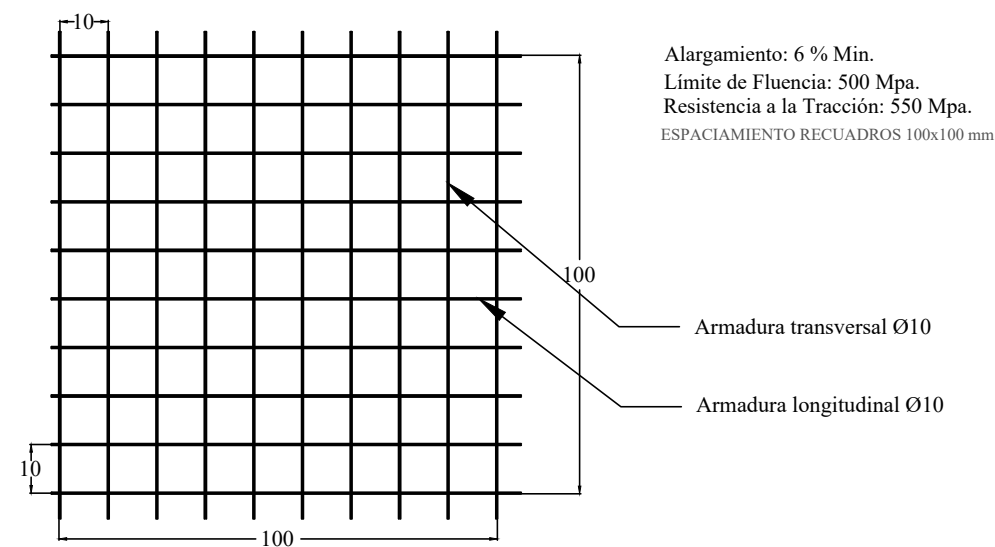
DETALLE DE TRASLAPO



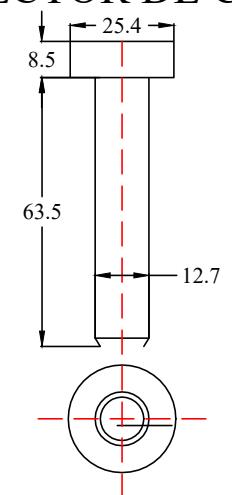
MALLA ELECTROSOLDADA



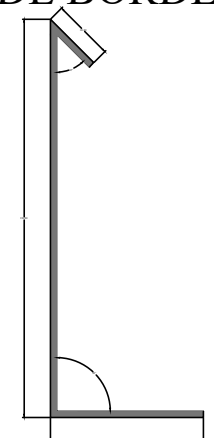
MALLA ELECTROSOLDADA



CONECTOR DE CORTE

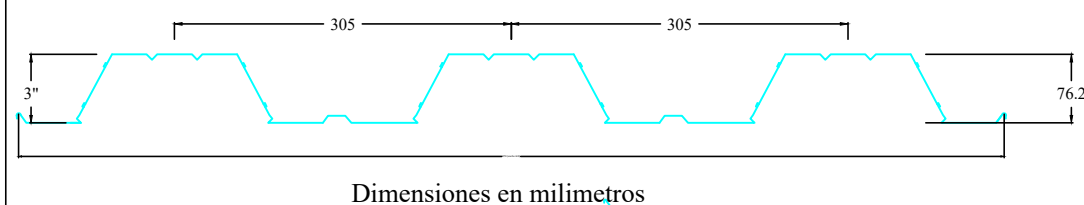


TOPE DE BORDE

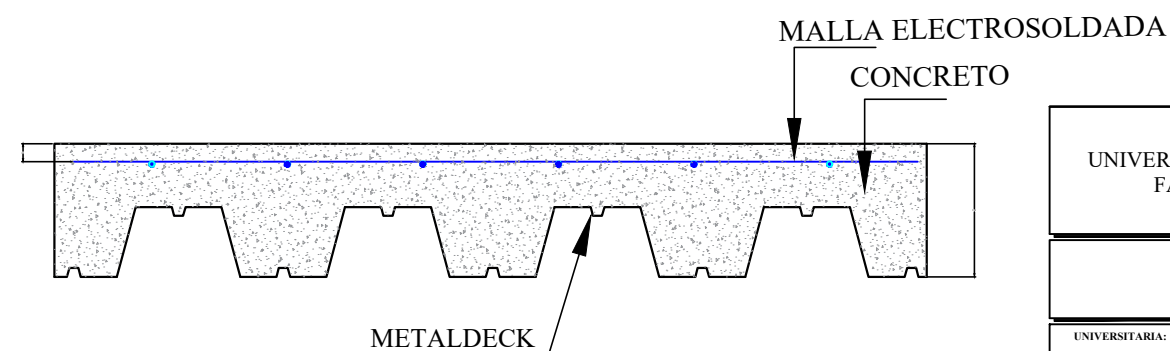


GEOMETRIA METALDECK 3"

CALIBRE 22 (0.75mm)



CORTE TIPICO DE PLACA



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



CONTENIDO:

DETALLE DE LOSA METALDECK

UNIVERSITARIA:

GALLARDO DIAZ PATRICIA ESTEFANIA

LAMINA:

11

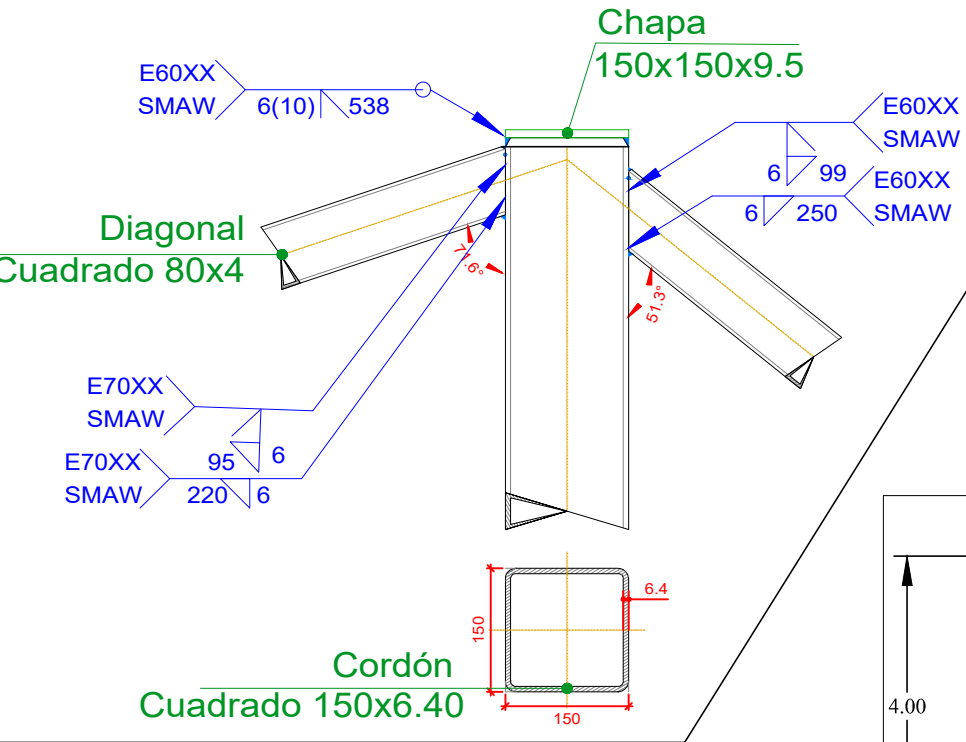
MATERIA:

PROYECTO DE GRADO II

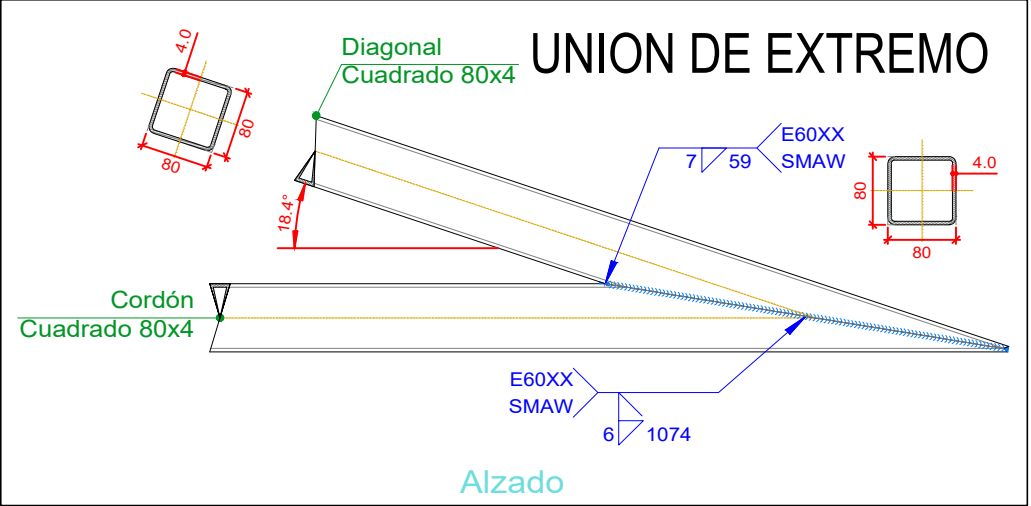
FECHA:

Octubre 2020

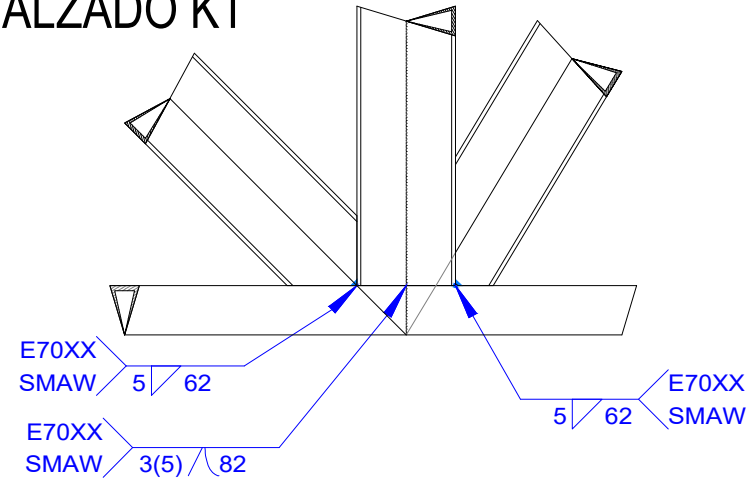
UNION CENTRAL 1



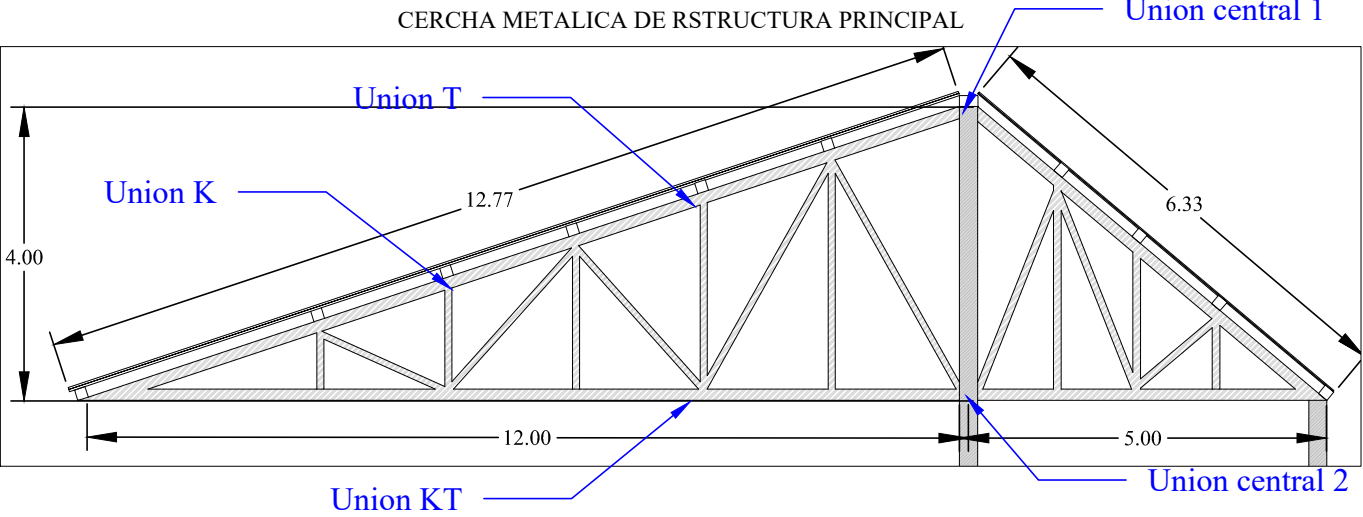
UNION DE EXTREMO



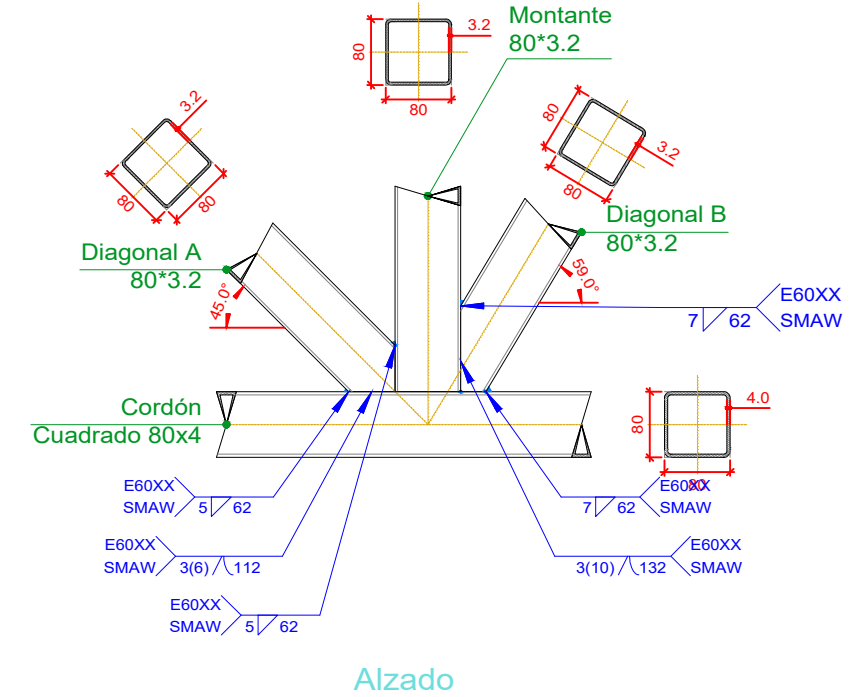
ALZADO KT



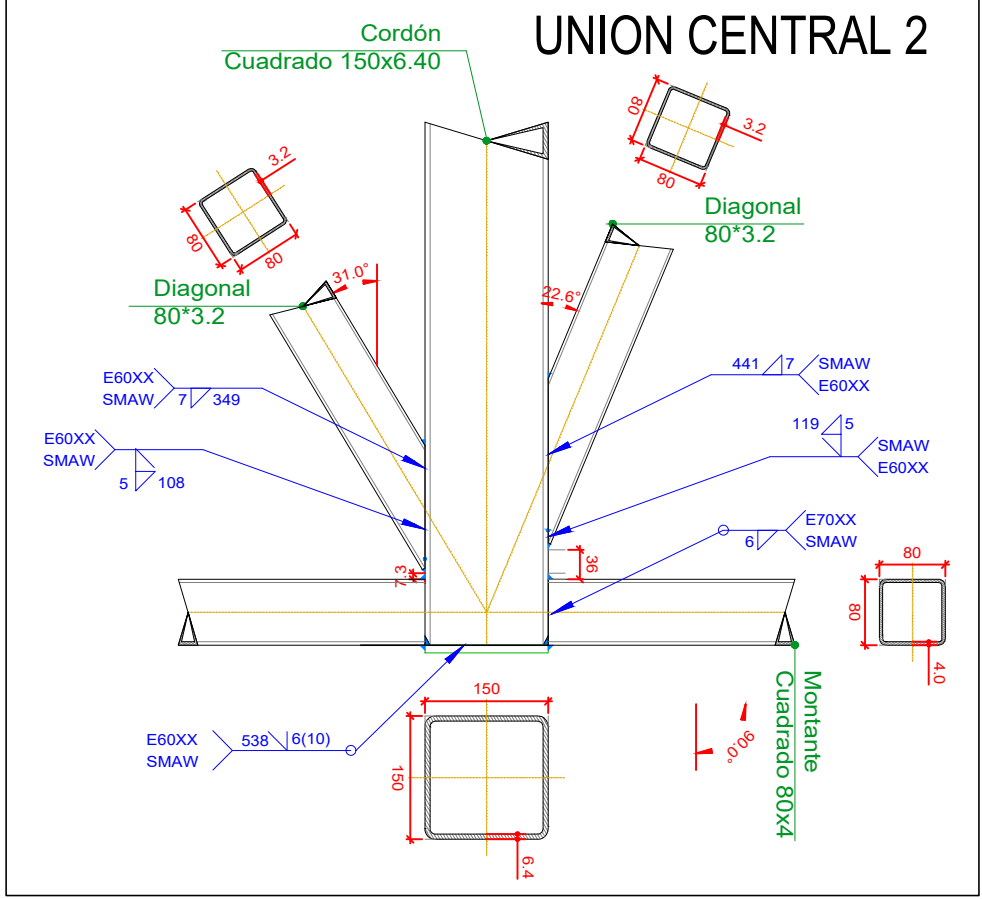
CERCHA METALICA DE RSTRUCTURA PRINCIPAL



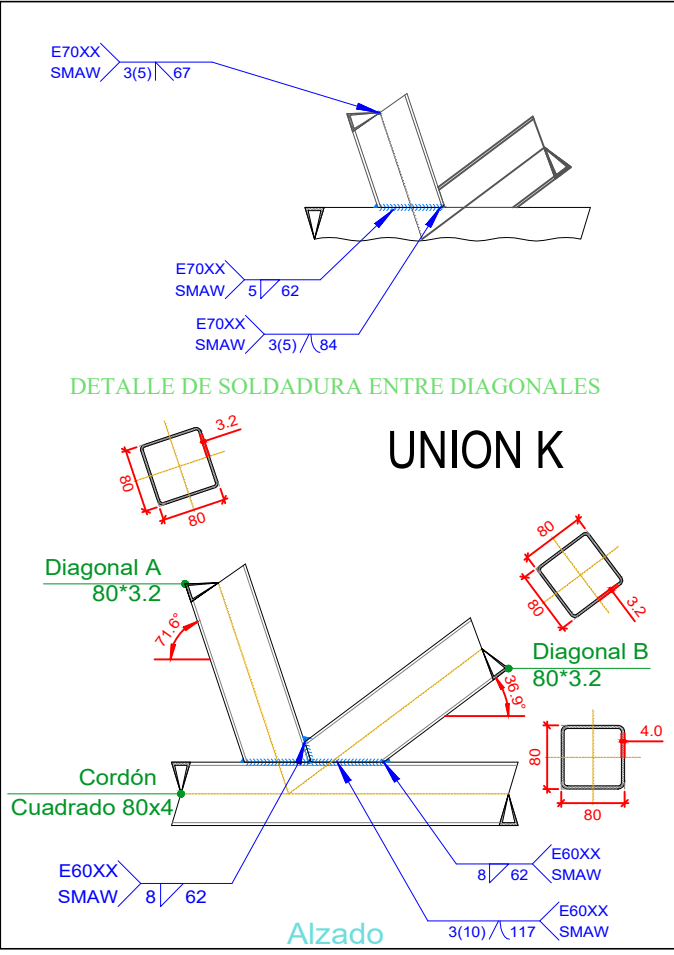
UNION KT



UNION CENTRAL 2



UNION K



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



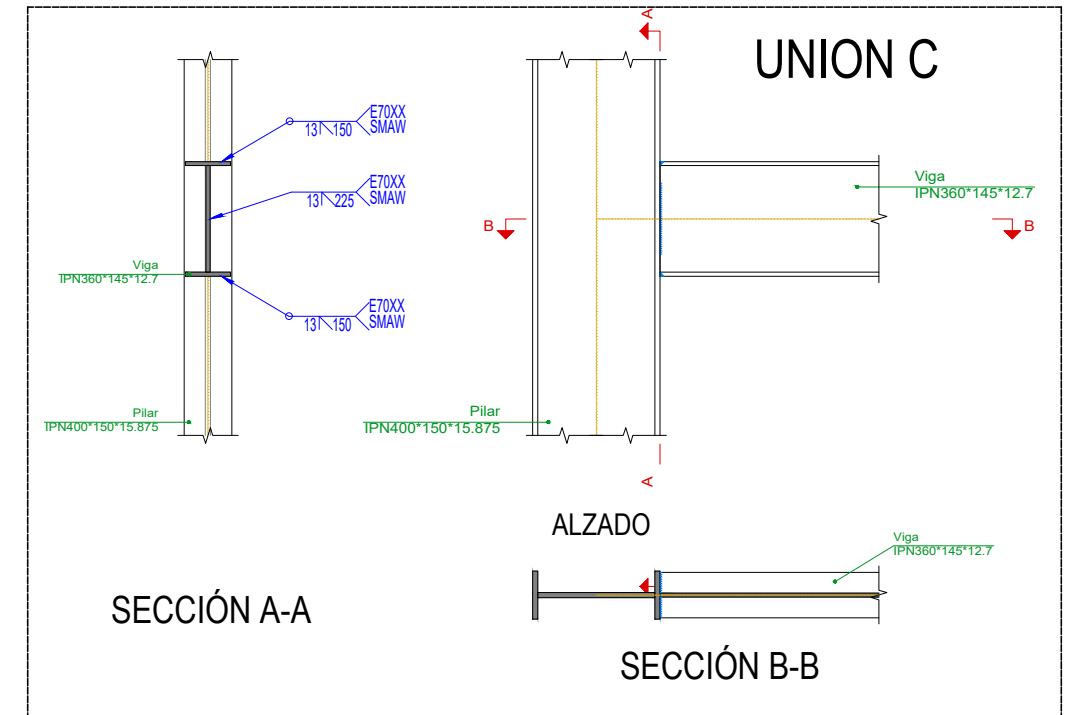
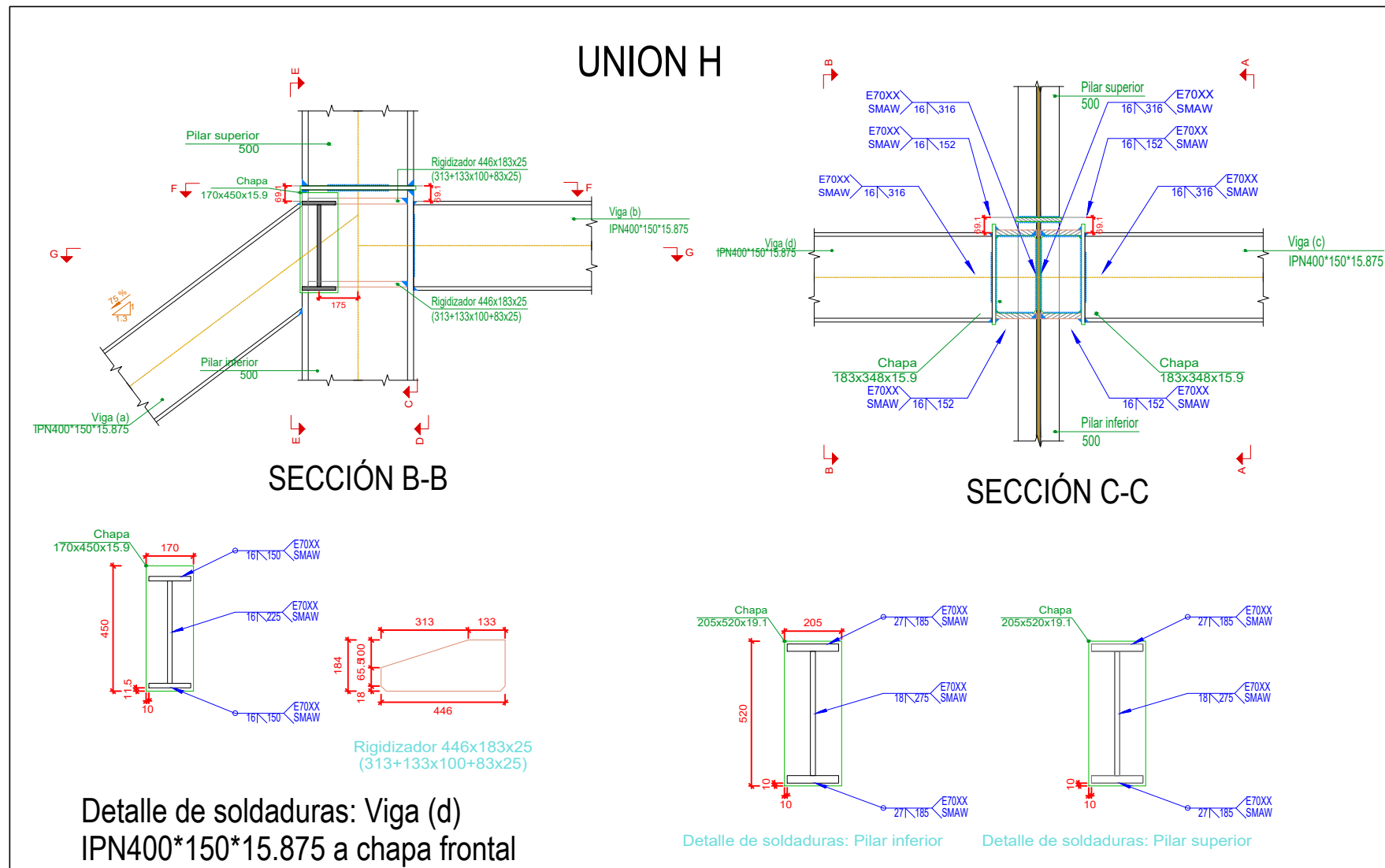
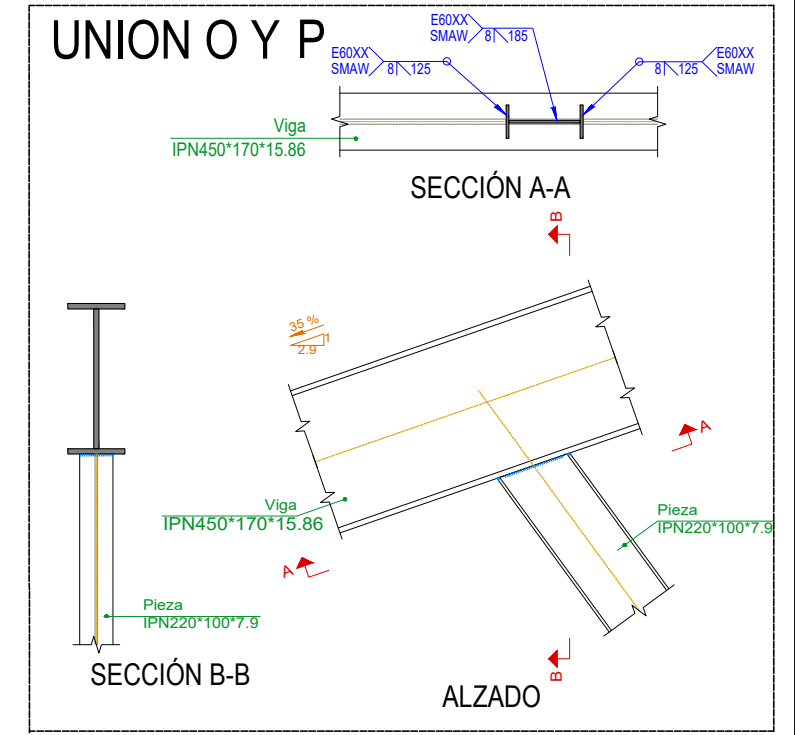
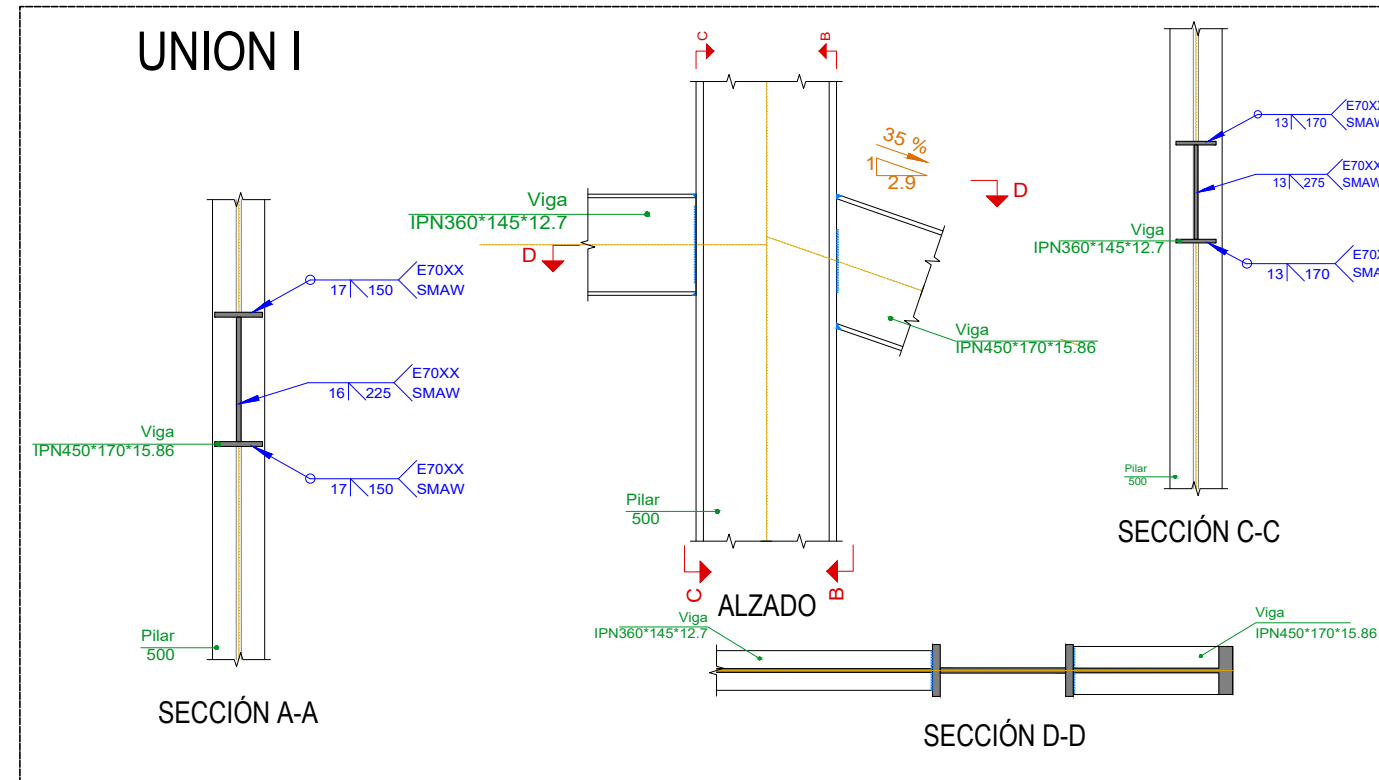
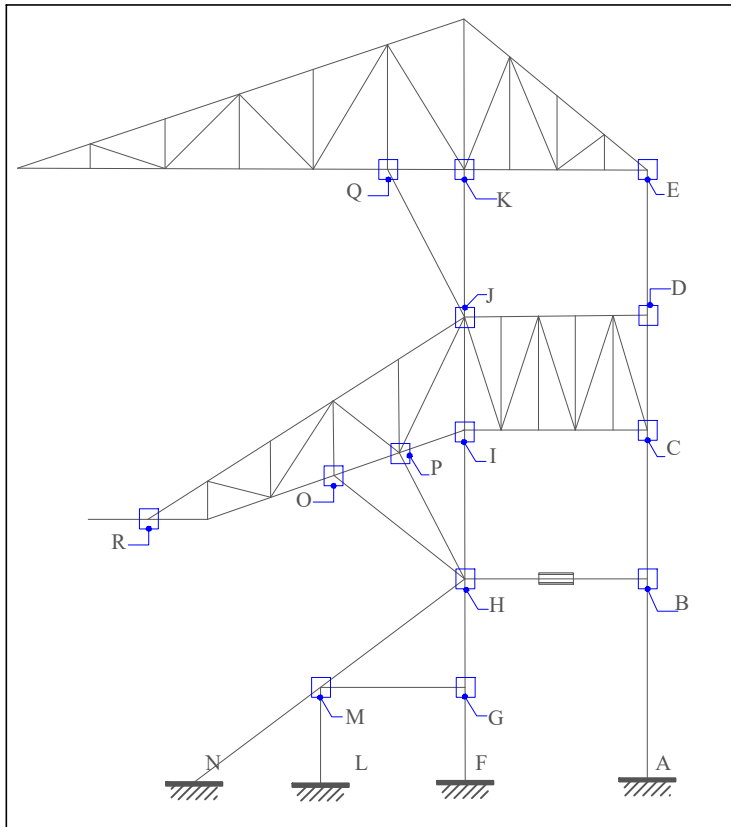
CONTENIDO:
UNIONES DE CUBIERTA

UNIVERSITARIA:
GALLARDO DIAZ PATRICIA ESTEFANIA

MATERIA:
PROYECTO DE GRADO II

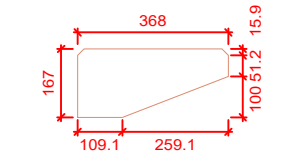
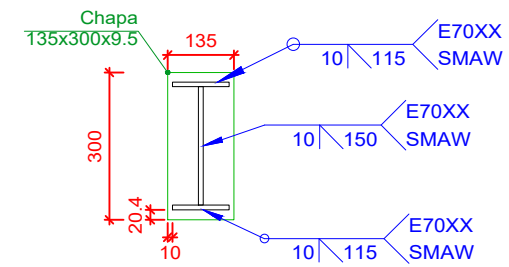
FECHA:
Octubre 2020

LAMINA:
12

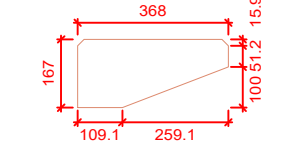


UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"			
FACULTAD DE CIENCIAS Y TECNOLOGIA			
CONTENIDO:		DETALLES DE UNIONES	
UNIVERSITARIA:	GALLARDO DIAZ PATRICIA ESTEFANIA		LAMINA:
			13
MATERIA:	PROYECTO DE GRADO II	FECHA:	Octubre 2020

Detalle de soldaduras: Viga (c)
IPN260*115*9.5 a chapa frontal

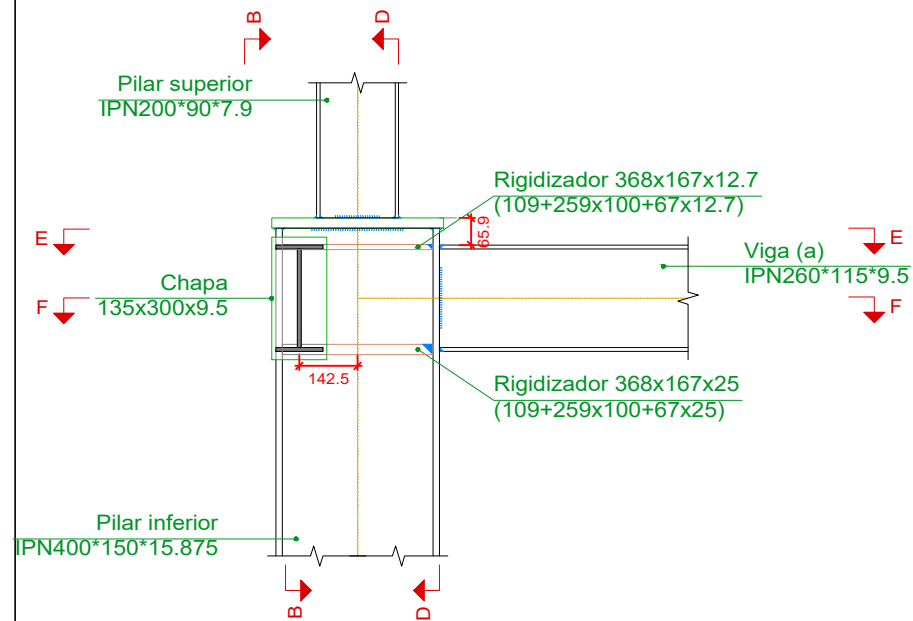


Rigidizador 368x167x25
(109+259x100+67x25)

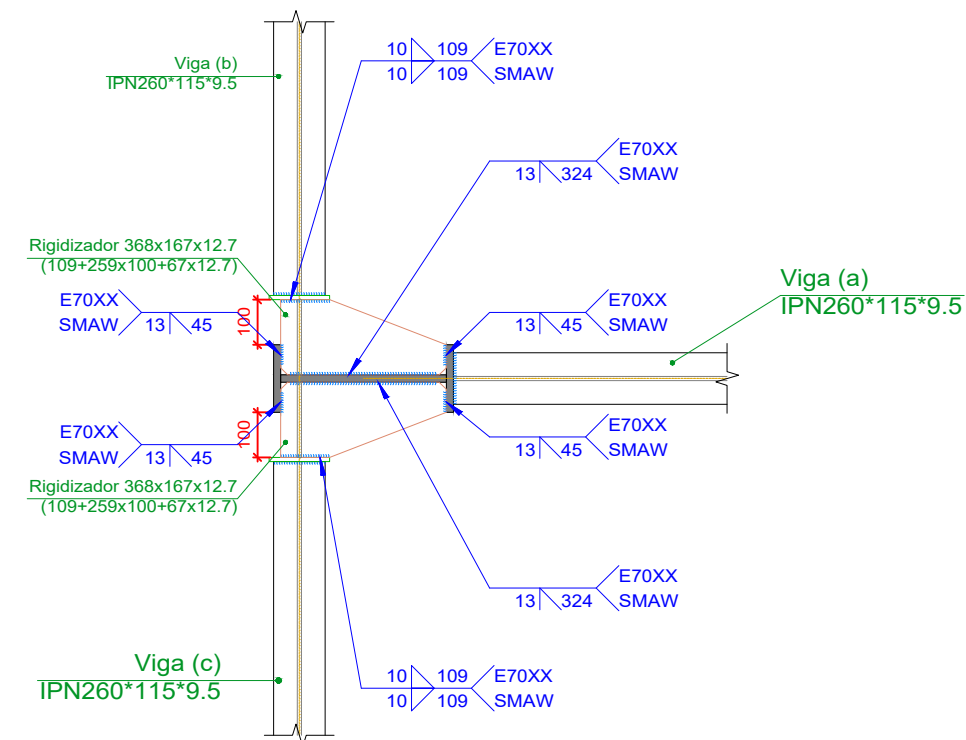


Rigidizador 368x167x12.7
(109+259x100+67x12.7)

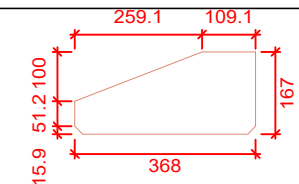
SECCIÓN A-A



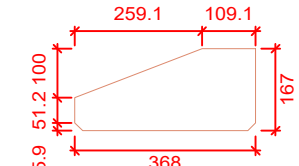
SECCIÓN E-E



Detalle de soldaduras: viga (b)

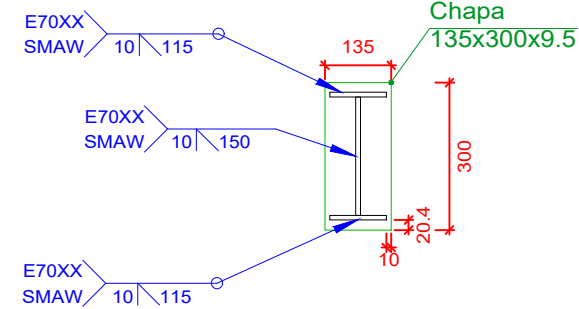


Rigidizador 368x167x25
(109+259x100+67x25)

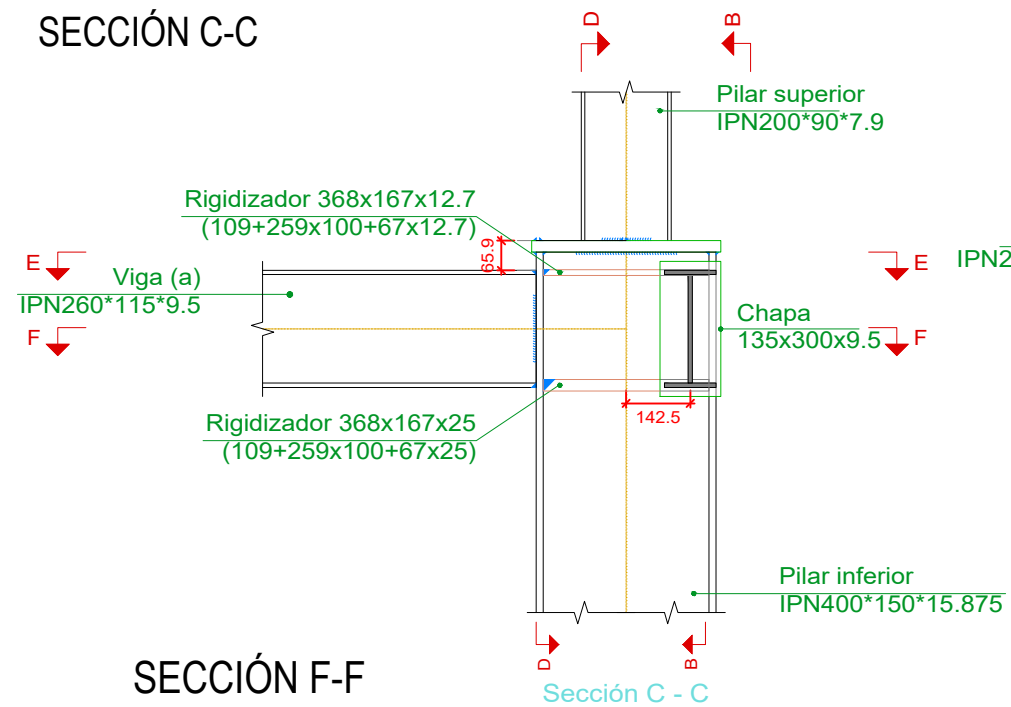


1 Rigidizador 368x167x12.7
(109+259x100+67x12.7)

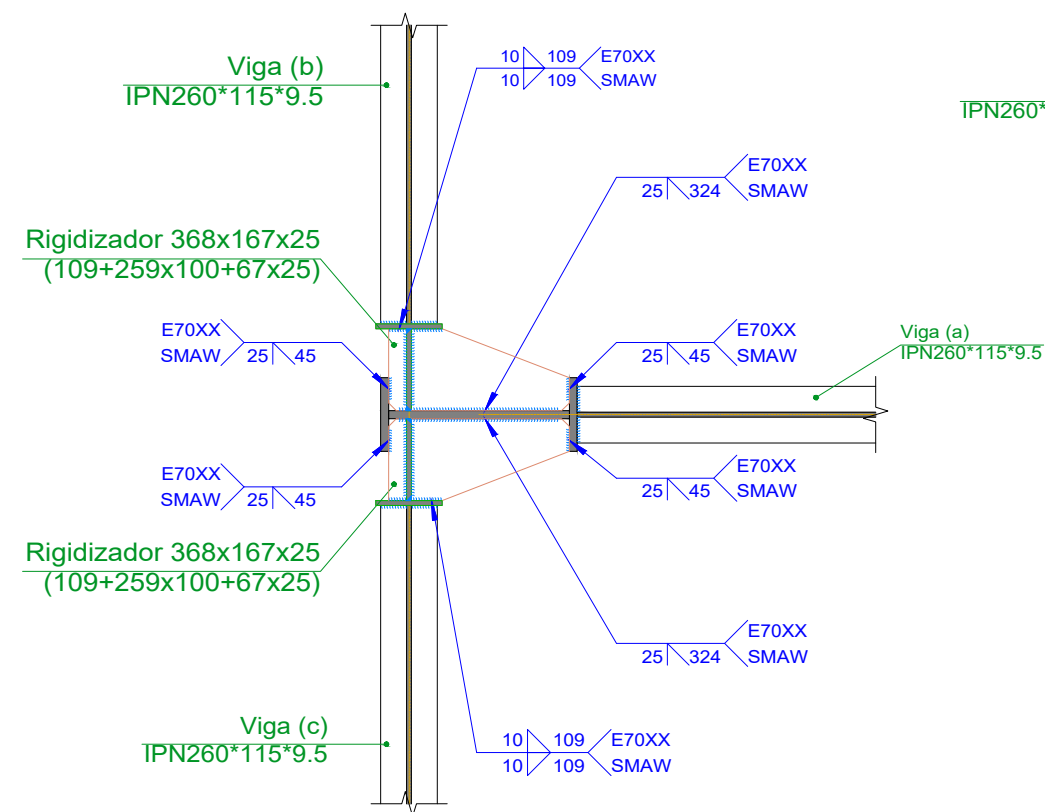
Detalle de soldaduras: viga (b)



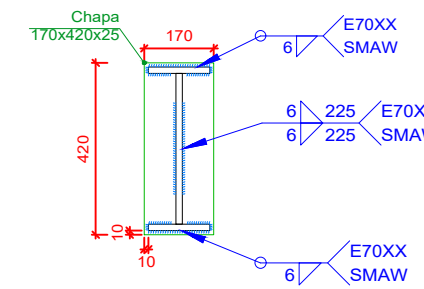
SECCIÓN C-C



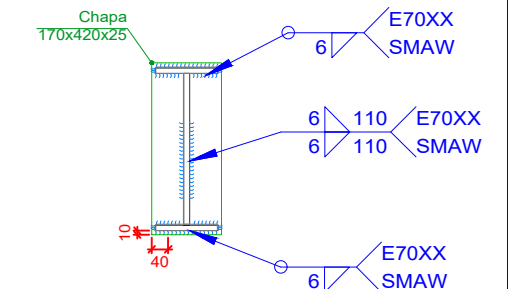
SECCIÓN F-F



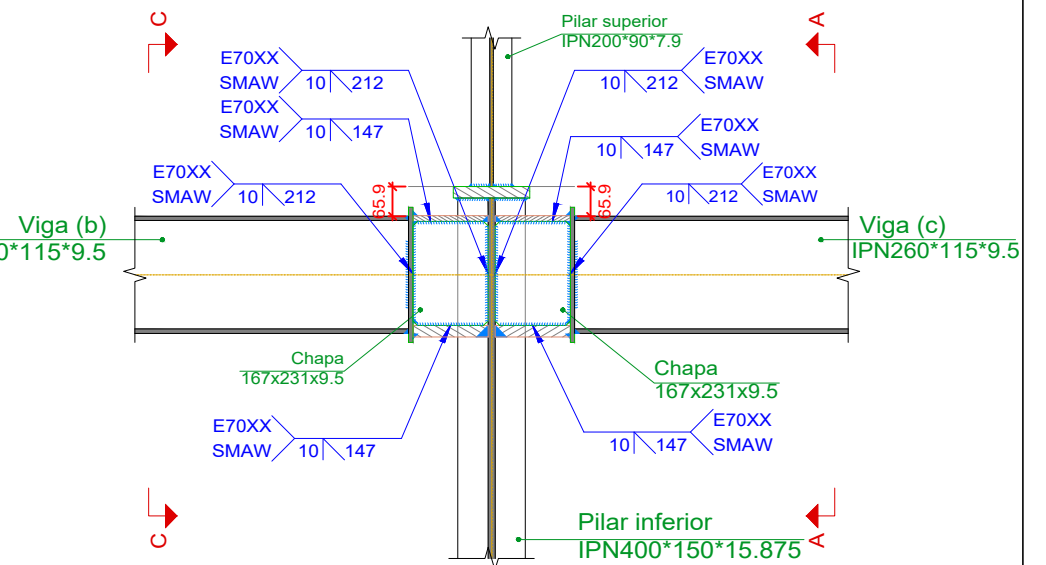
Detalle de soldaduras: Pilar inferior
IPN400*150*15.875 a chapa de transición



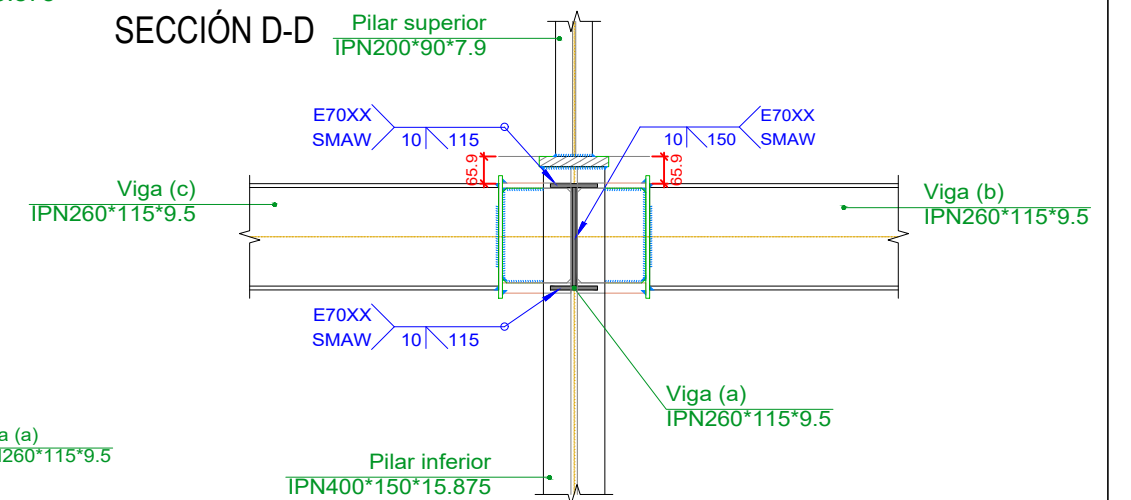
Detalle de soldaduras: Pilar superior
IPN200*90*7.9 a chapa de transición



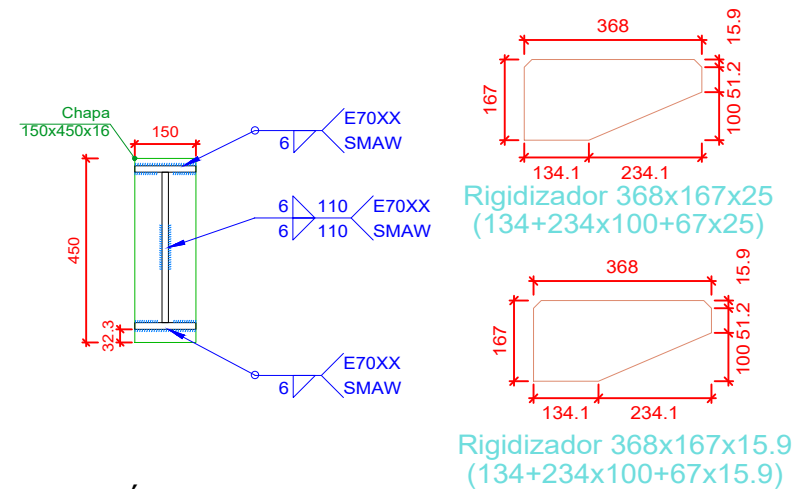
SECCIÓN B-B



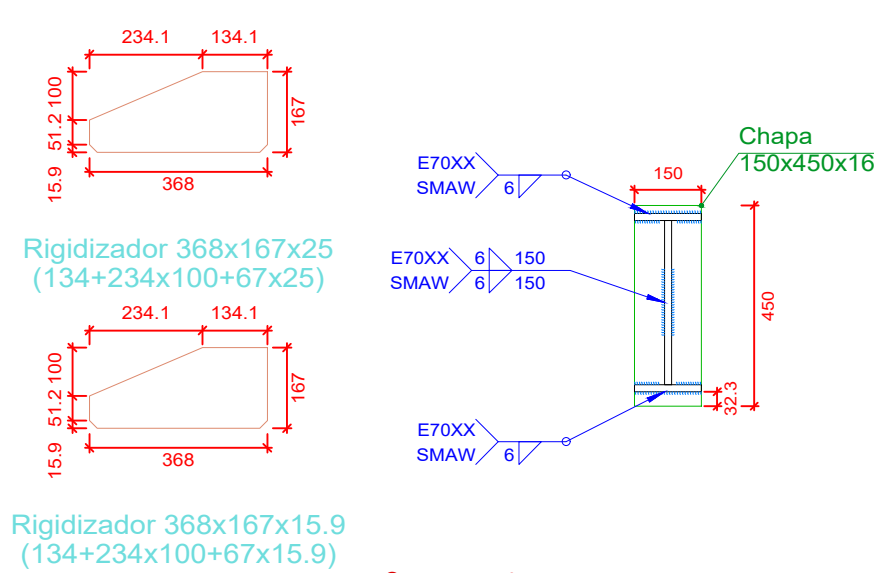
SECCIÓN D-D



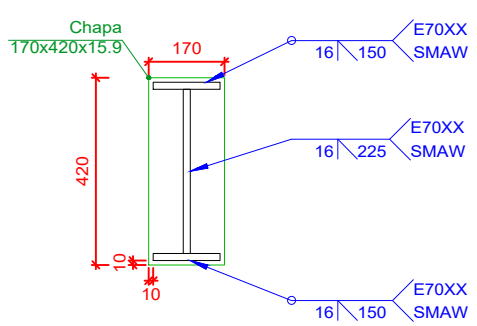
Detalle de soldaduras: Viga (c)
IPN400*150*15.875 a chapa frontal



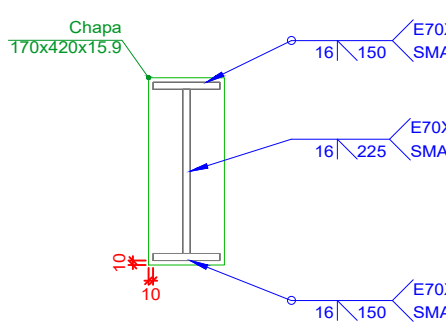
Detalle de soldaduras: Viga (b)
IPN400*150*15.875 a chapa frontal



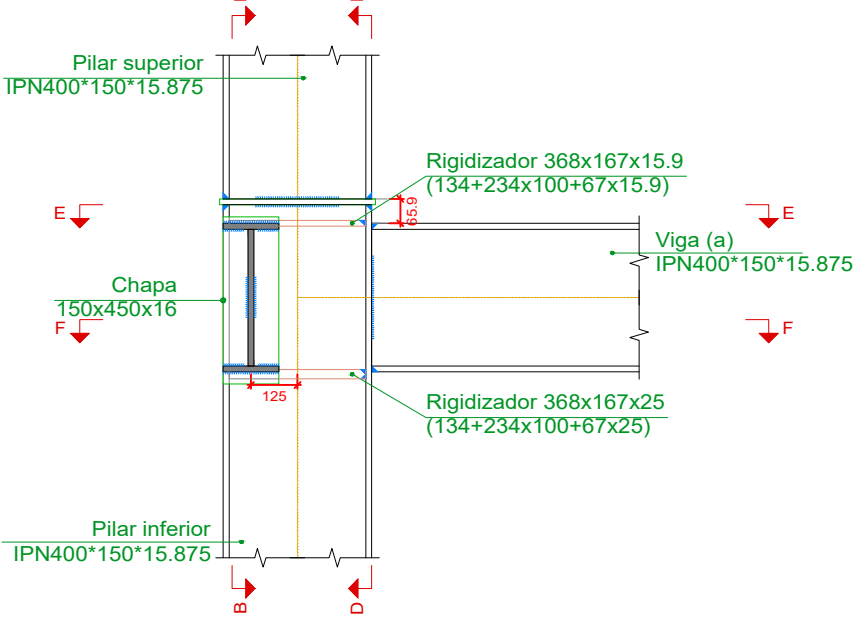
Detalle de soldaduras: Pilar inferior
IPN400*150*15.875 a chapa de transición



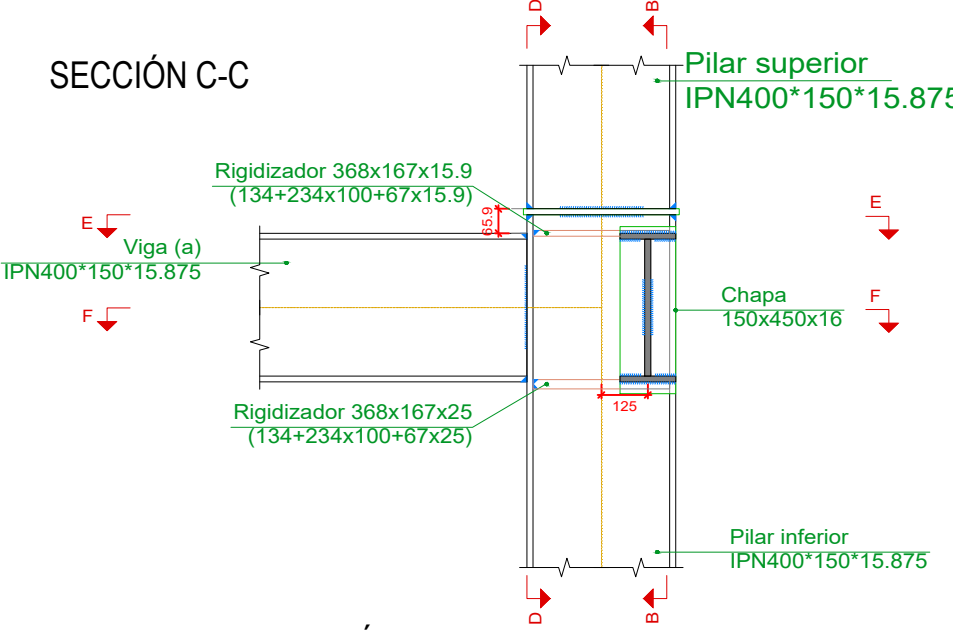
Detalle de soldaduras: Pilar superior
IPN400*150*15.875 a chapa de transición



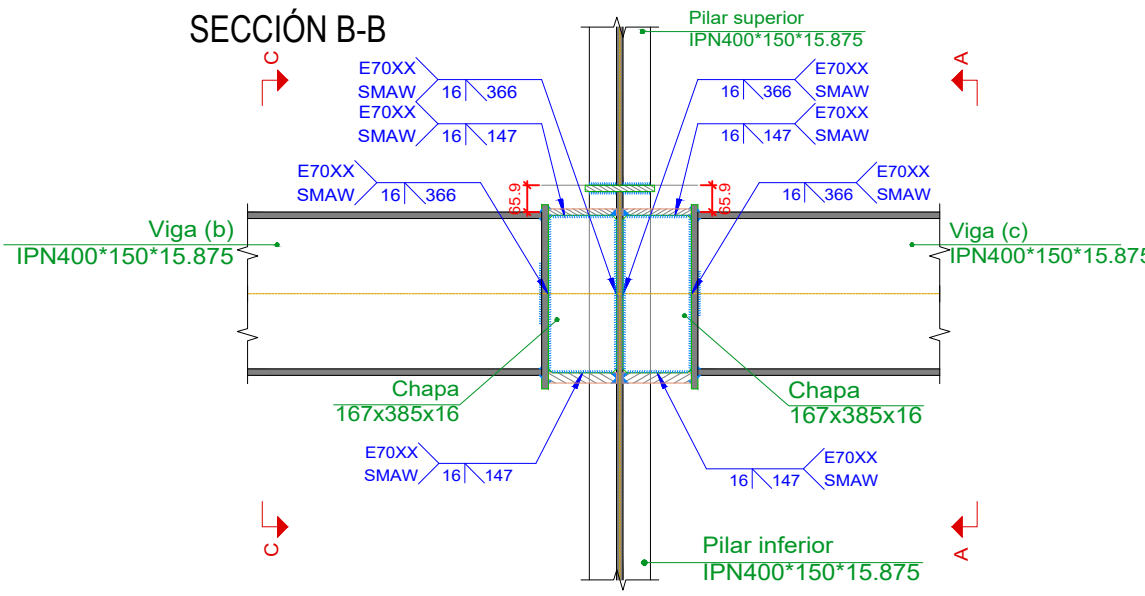
SECCIÓN A-A



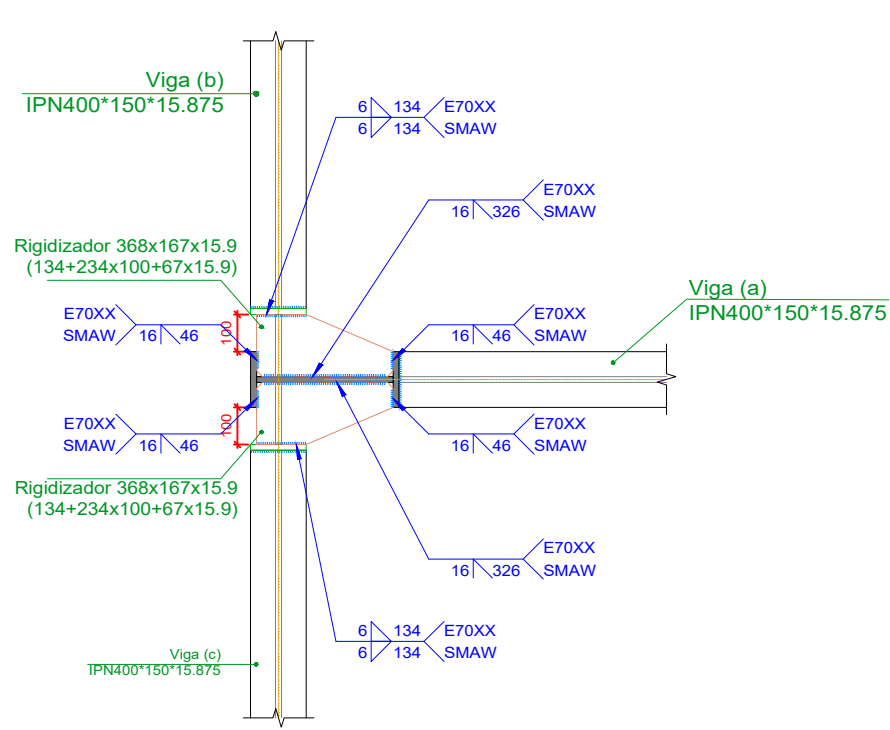
SECCIÓN C-C



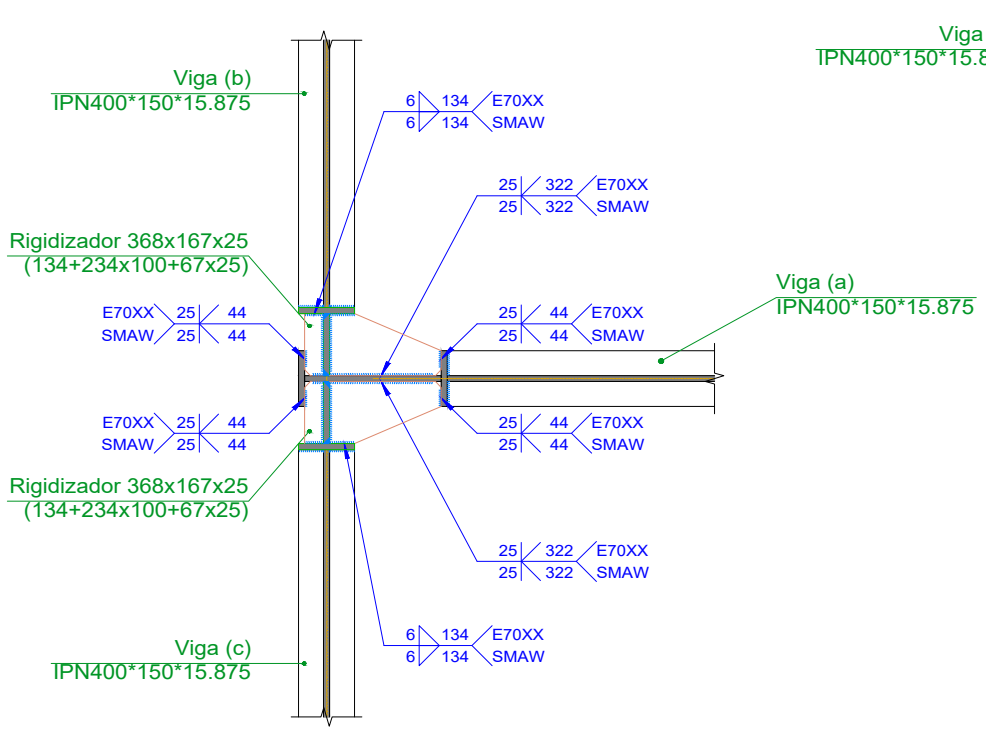
SECCIÓN B-B



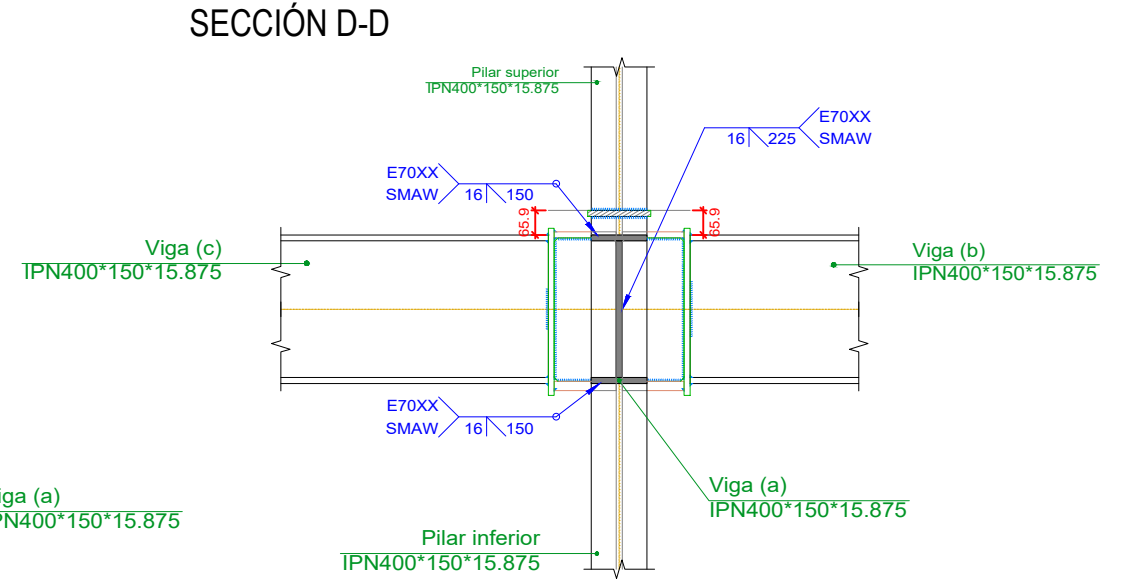
SECCIÓN E-E



SECCIÓN F-F



SECCIÓN D-D



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



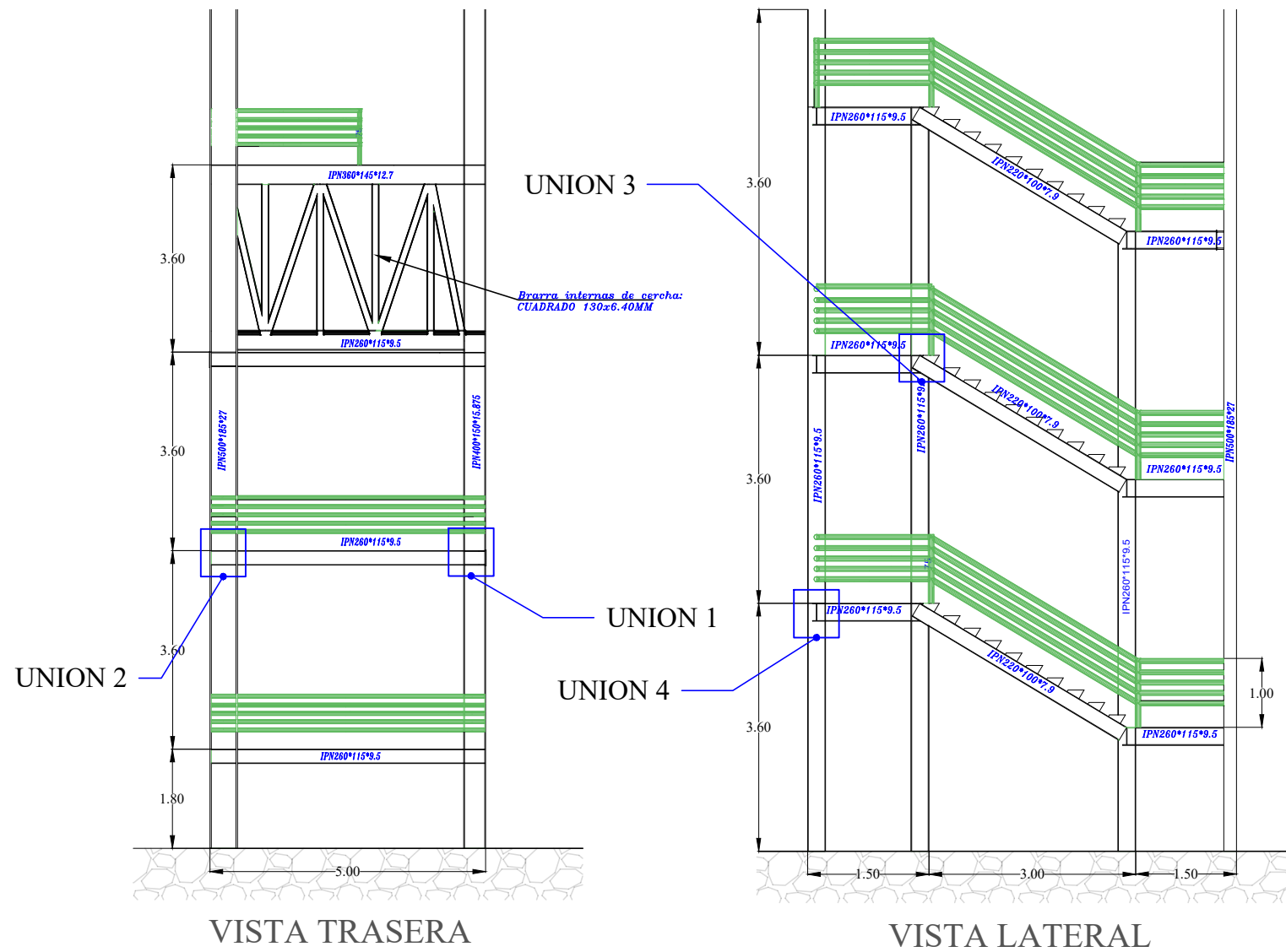
CONTENIDO:
DETALLE DE UNION B

UNIVERSITARIA: GALLARDO DIAZ PATRICIA ESTEFANIA

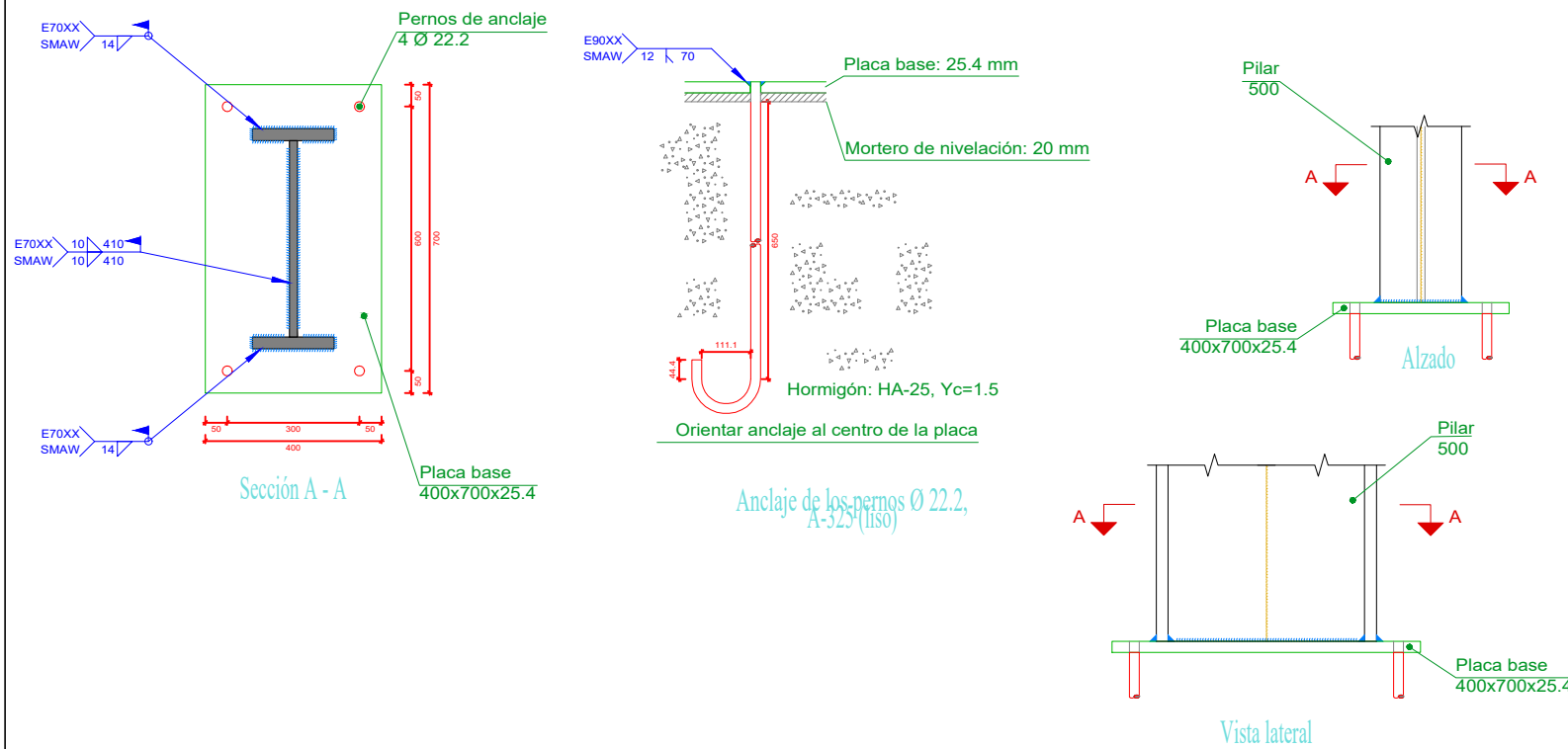
LAMINA:
15

MATERIA: PROYECTO DE GRADO II

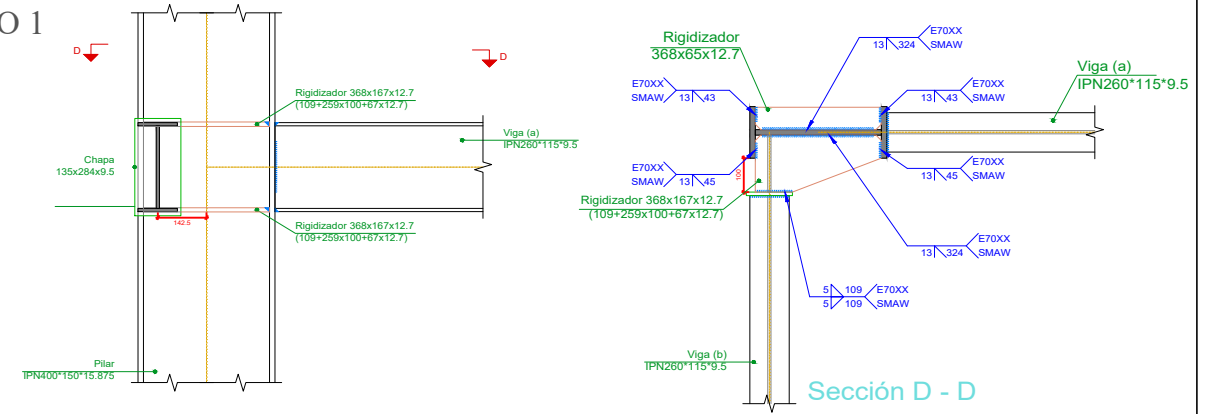
FECHA: Octubre 2020



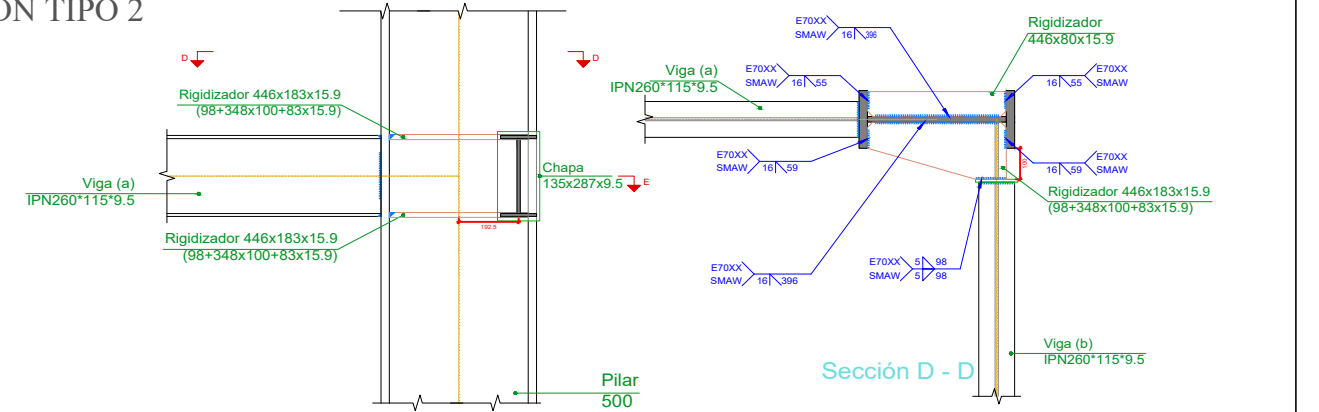
PLACA DE ANCLAJE



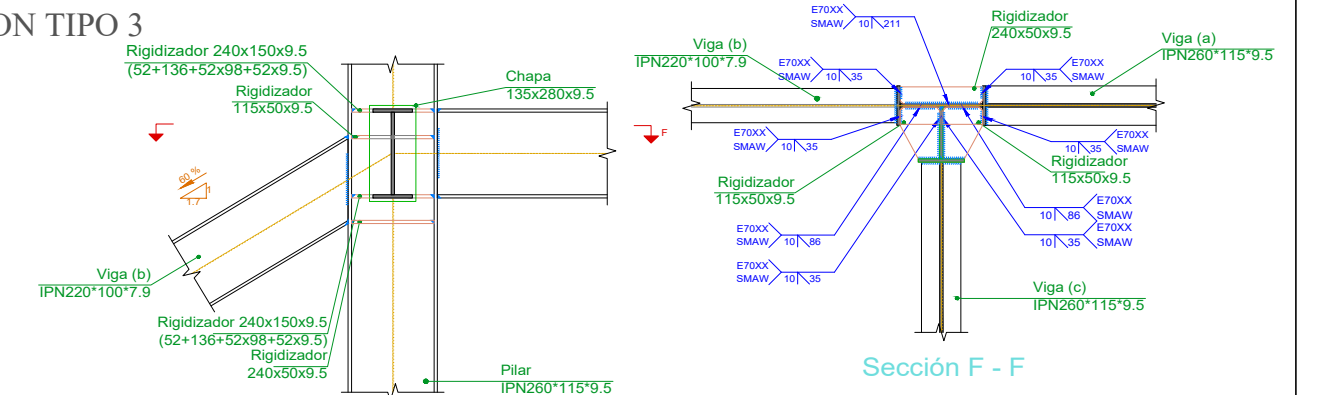
UNION TIPO 1



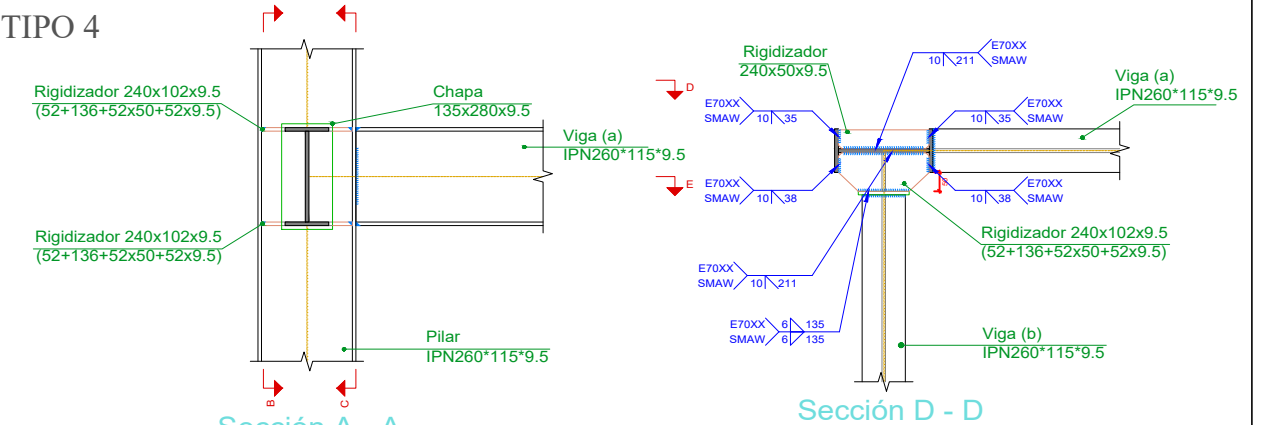
UNION TIPO 2



UNION TIPO 3



UNION TIPO 4



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



CONTENIDO:
DETALLES DE GRADA DE ACCESO

UNIVERSITARIA:
GALLARDO DIAZ PATRICIA ESTEFANIA

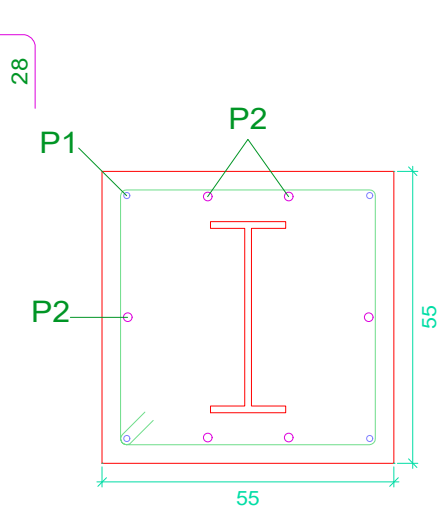
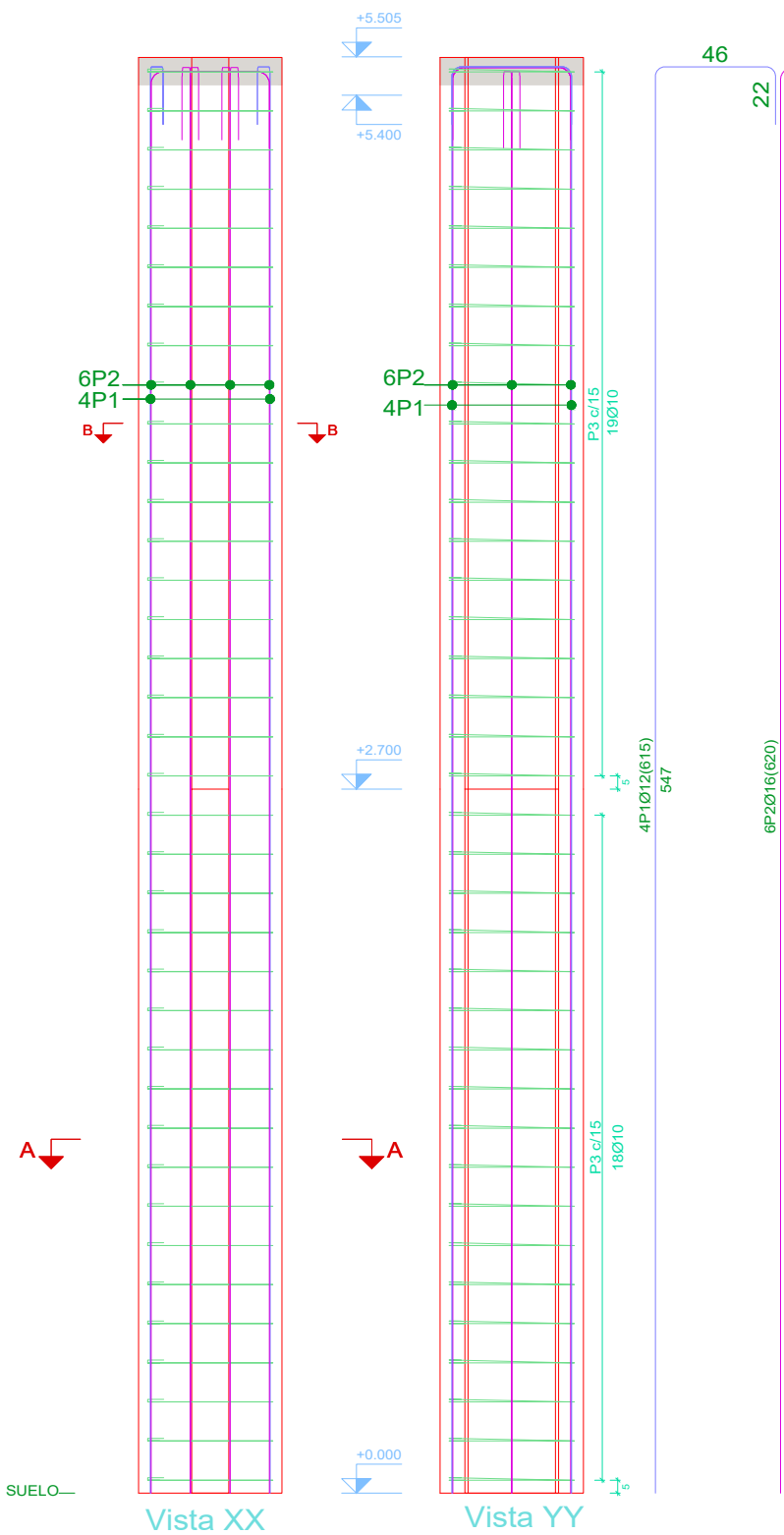
LAMINA:

16

MATERIA:
PROYECTO DE GRADO II

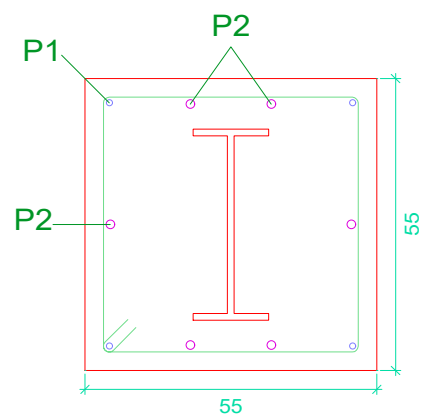
FECHA:
Octubre 2020

COLUMNA MIXTA



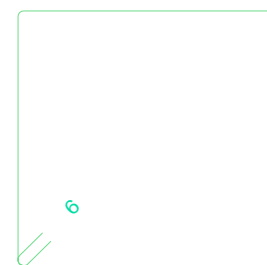
IPN360*145*12.7
4P1Ø12
6P2Ø16

Sección B-B

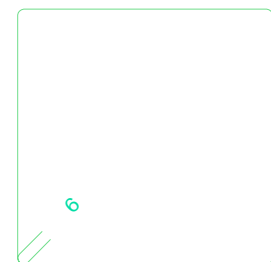


IPN360*145*12.7
4P1Ø12
6P2Ø16

Sección A-A



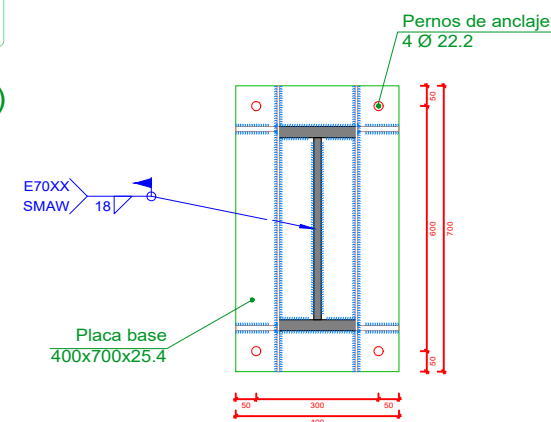
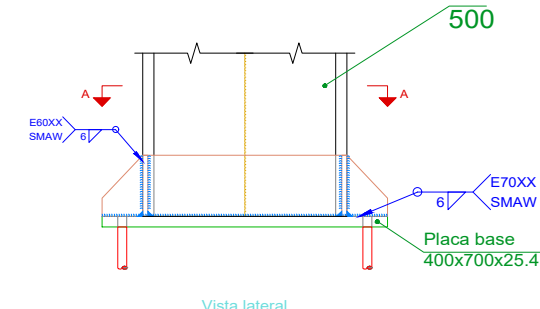
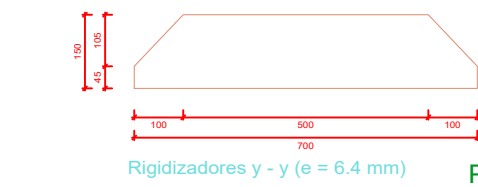
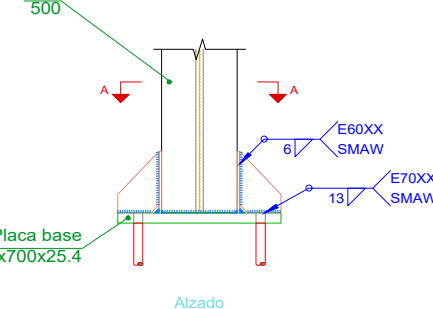
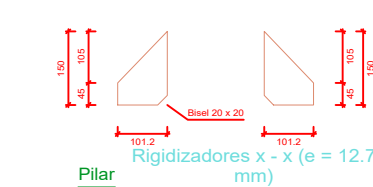
P3Ø10c/15(206)



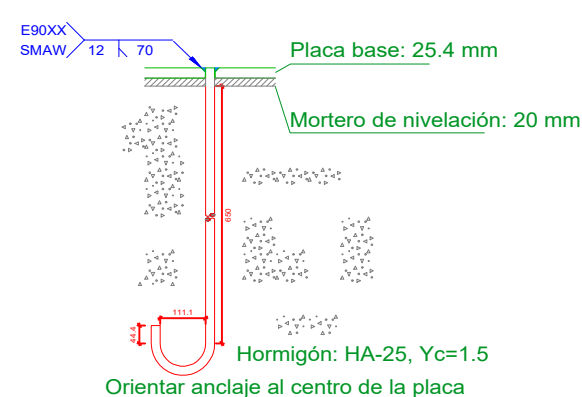
P3Ø10c/15(206)

COLUMNA DE ACERO

DETALLE DE UNION

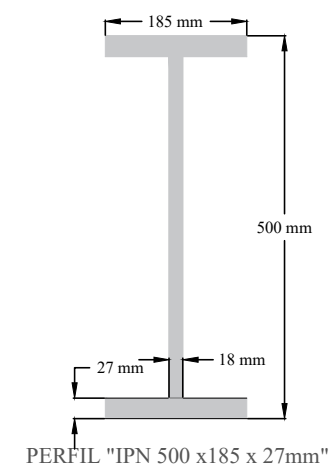


Sección A - A



Anclaje de los pernos Ø 22.2, A-325 (liso)

MEDIDAS DE PERFIL DE ACERO



Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	Ø12	4	615	2460
2	Ø16	6	620	3720
3	Ø10	37	206	7622

UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"		FACULTAD DE CIENCIAS Y TECNOLOGIA			
CONTENIDO:		APORTE ACADEMICO			
UNIVERSITARIA:		GALLARDO DIAZ PATRICIA ESTEFANIA		LAMINA:	
MATERIA:		PROYECTO DE GRADO II		FECHA:	
				Octubre 2020	
				17	