

**ESTIMATION WORKING
CIVIL WORKS
EXTERNAL ARRANGEMENT**

**ESTIMATION DES TRAVAUX
ŒUVRES CIVILES
AMÈNAGEMENT EXTÉRIEUR**



COSTS ESTIMATE								
N.	ART.	BRIEF DESCRIPTION	UNIT	QUANTITY	PRICE/UNIT	AMOUNT	CHAPTER	%
	CODE					EURO		
EXCAVATION								
1	02.01.01a	Open working-face excavations, etc	mc.	4.561,00	6,00	27.366,00		
2	02.01.05.a	Compulsory excavations, etc	mc.	6.932,00	11,44	79.302,08		
3	02.02.01a	Reburials, etc	mc.	4.900,00	6,14	30.086,00		
4	03.01.01d	Drilled pole, etc	ml.	5.360,00	82,92	444.451,20		
5	02.02.03b	Supply, spreading, rolling, etc	mc.	2.362,00	18,59	43.909,58		
		CHAPTER TOTAL				625.114,86	625.114,86	31,61
CONCRETE - STEEL - FORMWORK								
6	03.01.09a	High-density inert matter concrete	mc.	500,00	75,07	37.535,00		
7	03.01.10c	Concrete for foundations, etc	mc.	1.800,00	94,36	169.848,00		
8	12.01.01	Anti-termite treatment, etc	kg.	230,00	5,00	1.150,00		
9	03.04.01b	Feb44k steel	kg.	317.454,00	1,08	342.850,32		
10	3.04.02	Electrically melded net, etc	kg.	40.000,00	1,32	52.800,00		
11	12.01.02	U-bars, pannel fastening, etc	Kg.	0,00	2,00	0,00		
12	03.01.11a	Wooden formwork, etc	mq.	3.870,00	21,69	83.940,30		
		CHAPTER TOTAL				688.123,62	688.123,62	34,80
MASONWORK - BASE BOARDING - INTERNAL DIVISIONS								
13	05.01.09b	Masonwork in 15-cm-thick concrete blocks, e	mq.	280,00	21,04	5.891,20		
14	05.01.09c	Masonwork in 20-cm-thick concrete blocks, e	mq.	2.636,00	22,38	58.993,68		
15	05.01.09.d	Masonwork in 25-cm-thick concrete blocks, e	mc.	0,00	186,14	0,00		
		CHAPTER TOTAL				64.884,88	64.884,88	3,28
PLASTERING								
16	07.01.02c	Rustic plastering, etc	mq.	360,00	17,56	6.321,60		
17	07.01.03c	"Civil Plaster"	mq.	270,00	18,74	5.059,80		
		CHAPTER TOTAL				11.381,40	11.381,40	0,58
LOOSE STONE FOUNDATION								
18	12.01.03	Loose stone foundation with igloo	mq.	1.875,00	55,20	103.500,00		
		CHAPTER TOTAL				103.500,00	103.500,00	5,23
FLOORINGS AND LININGS								
19	12.01.04a	Industrial flooring	mq.	7.873,00	28,40	223.593,20		
20	12.01.04b	Anti-dust treatment, etc	mq.	7.873,00	3,46	27.240,58		
21	3.02.10	Foundations, etc	mq.	1.875,00	11,75	22.031,25		
22	08.01.18d	Stoneware tiles, etc	mq.	2.235,00	25,00	55.875,00		
23	07.02.03b	False ceiling, etc	mq.	1.875,00	32,48	60.900,00		
		CHAPTER TOTAL				389.640,03	389.640,03	19,70

ESTIMATION DES TRAVAUX								
N.	CODE	DESCRIPTION SYNTETIQUE	U.M	Q.TE'	PR. UN.	MONTANT	CHAPITRE	%
	ART.				EURO	EURO		
EXCAVATIONS								
1	02.01.01a	Excavations à ciel ouvert, etc.	mc.	4.561,00	6,00	27.366,00		
2	02.01.05.a	Excavations à section obligée, etc.	mc.	6.932,00	11,44	79.302,08		
3	02.02.01a	Remblais, etc.	mc.	4.900,00	6,14	30.086,00		
4	03.01.01d	Pieu foré	ml.	5.360,00	82,92	444.451,20		
5	02.02.03b	Fourniture, étalement et cylindrage, etc.	mc.	2.362,00	18,59	43.909,58		
		TOTAL CHAPITRE				625.114,86	625.114,86	31,61
BETON-ACIER-COFRAGES								
6	03.01.09a	Béton pour lits, etc.	mc.	500,00	75,07	37.535,00		
7	03.01.10c	Béton en fondations, etc.	mc.	1.800,00	94,36	169.848,00		
8	12.01.01	Additif antitermites	kg.	230,00	5,00	1.150,00		
9	03.04.01b	Acier Feb44k	kg.	317.454,00	1,08	342.850,32		
10	3.04.02	Réseau électrosoudé, etc.	kg.	40.000,00	1,32	52.800,00		
11	12.01.02	Fers en U, fermeture panneaux, etc.	Kg.	0,00	2,00	0,00		
12	03.01.11a	Coffrages en bois, etc.	mq.	3.870,00	21,69	83.940,30		
		TOTAL CHAPITRE				688.123,62	688.123,62	34,80
MAÇONNERIES-PLANCHERS-DIVISIONS INTERIEURES								
13	05.01.09b	Murage en blocs de béton, ép. 15 cm etc.	mq.	280,00	21,04	5.891,20		
14	05.01.09c	Murage en blocs de béton, ép. 20 cm etc.	mq.	2.636,00	22,38	58.993,68		
15	05.01.09.d	Murage en blocs de béton, ép. 25 cm etc.	mc.	0,00	186,14	0,00		
		TOTAL CHAPITRE				64.884,88	64.884,88	3,28
ENDUITS								
16	07.01.02c	Enduit rustique, etc.	mq.	360,00	17,56	6.321,60		
17	07.01.03c	Enduit à civil	mq.	270,00	18,74	5.059,80		
		TOTAL CHAPITRE				11.381,40	11.381,40	0,58
VIDES SANITAIRES								
18	12.01.03	Vide sanitaire avec igloo, etc.	mq.	1.875,00	55,20	103.500,00		
		TOTAL CHAPITRE				103.500,00	103.500,00	5,23
PLANCHERS ET REVETEMENTS								
19	12.01.04a	Plancher industriel	mq.	7.873,00	28,40	223.593,20		
20	12.01.04b	Traitement antipoussière, etc.	mq.	7.873,00	3,46	27.240,58		
21	3.02.10	Hourdis, etc.	mq.	1.875,00	11,75	22.031,25		
22	08.01.18d	Carreaux en grès, etc.	mq.	2.235,00	25,00	55.875,00		
23	07.02.03b	Faux plafond, etc.	mq.	1.875,00	32,48	60.900,00		
		TOTAL CHAPITRE				389.640,03	389.640,03	19,70



DOORS									
24	09.01.04a	Wooden inner door, etc	mq.	130,00	100,00	13.000,00			
25	12.01.05	Book door, etc	mq.	50,00	350,00	17.500,00			
26	12.01.06	Impactable doors, etc	mq.	0,00	200,00	0,00			
27	12.01.07	Sectional doors, etc	mq.	0,00	180,00	0,00			
28	12.01.08	Small entrance doors, etc	cad.	5,00	560,00	2.800,00			
29	12.01.09	External doorframes and glass doors	mq.	120,00	300,00	36.000,00			
				CHAPTER TOTAL		69.300,00		69.300,00	3,50
STRUTTURA METALLICA									
30	12.01.11		kg.	23.265,00	3,00	69.795,00			
				CHAPTER TOTAL		1.126.675,54		0,00	0,00
MISCELLANEOUS									
43	12.01.10	Iron stairs, etc	cad.	1,00	10.000,00	10.000,00			
				CHAPTER TOTAL		10.000,00		10.000,00	0,51
MASONRY ASSISTANCE									
44	13.01.15	Assistance for prefabricated structure, etc	cad.	78,00	200,00	15.600,00			
				CHAPTER TOTAL		15.600,00		15.600,00	0,79
				TOTAL WORKS				1.977.544,79	100

PORTES ET PORTES COCHÈRES									
24	09.01.04a	Tambour en bois, etc.	mq.	130,00	100,00	13.000,00			
25	12.01.05	Porte cochère plante, etc.	mq.	50,00	350,00	17.500,00			
26	12.01.06	Porte cochère accordéon, etc.	mq.	0,00	200,00	0,00			
27	12.01.07	Porte cochère sectionnaire, etc.	mq.	0,00	180,00	0,00			
28	12.01.08	Portes d'entrée, etc.	cad.	5,00	560,00	2.800,00			
29	12.01.09	Serrureries extérieures et vitrages	mq.	120,00	300,00	36.000,00			
				TOTAL CHAPITRE		69.300,00		69.300,00	3,50
STRUCTURA METALLICA									
30	12.01.11		kg.	23.265,00	3,00	69.795,00			
				TOTAL CHAPITRE		1.126.675,54		0,00	0,00
DIVERS									
43	12.01.10	Escaliers en fer, etc.	cad.	1,00	10.000,00	10.000,00			
				TOTAL CHAPITRE		10.000,00		10.000,00	0,51
ASSISTANCES DE MAÇONNERIE									
44	13.01.15	Assistance structure, etc.	cad.	78,00	200,00	15.600,00			
				TOTAL CHAPITRE		15.600,00		15.600,00	0,79
TOTAL TRAVAUX								1.977.544,79	100



COSTS ESTIMATE								
N.	ART.	BRIEF DESCRIPTION	UNIT	QUANTITY	PRICE/UNIT	AMOUNT	CHAPTER	%
	CODE					EURO		
EXCAVATION								
1	02.01.01a	Open working-face excavations, etc	mc.	1.600,00	6,00	9.600,00		
2	02.01.05.a	Compulsory excavations, etc	mc.	1.019,00	11,44	11.657,36		
3	02.02.01a	Reburials, etc	mc.	420,00	6,14	2.578,80		
4	03.01.01d	Drilled pole, etc	ml.	1.080,00	82,92	89.553,60		
5	02.02.03b	Supply, spreading, rolling, etc	mc.	350,00	18,59	6.506,50		
		CHAPTER TOTAL				119.896,26	119.896,26	38,15
CONCRETE - STEEL - FORMWORK								
6	03.01.09a	High-density inert matter concrete	mc.	105,00	75,07	7.882,35		
7	03.01.10c	Concrete for foundations, etc	mc.	602,00	94,36	56.804,72		
8	12.01.01	Anti-termite treatment, etc	kg.	70,00	5,00	350,00		
9	03.04.01b	Feb44k steel	kg.	62.091,00	1,08	67.058,28		
10	3.04.02	Electrically melded net, etc	kg.	6.500,00	1,32	8.580,00		
11	12.01.02	U-bars, pannel fastening, etc	Kg.	0,00	2,00	0,00		
12	03.01.11a	Wooden formwork, etc	mq.	650,00	21,69	14.098,50		
		CHAPTER TOTAL				154.773,85	154.773,85	49,25
MASONWORK - BASE BOARDING - INTERNAL DIVISIONS								
13	05.01.09b	Masonwork in 15-cm-thick concrete blocks, e	mq.	0,00	21,04	0,00		
14	05.01.09c	Masonwork in 20-cm-thick concrete blocks, e	mq.	0,00	22,38	0,00		
15	05.01.09.d	Masonwork in 25-cm-thick concrete blocks, e	mc.	0,00	186,14	0,00		
		CHAPTER TOTAL				0,00	0,00	0,00
PLASTERING								
16	07.01.02c	Rustic plastering, etc	mq.	0,00	17,56	0,00		
17	07.01.03c	"Civil Plaster"	mq.	0,00	18,74	0,00		
		CHAPTER TOTAL				0,00	0,00	0,00
LOOSE STONE FOUNDATION								
18	12.01.03	Loose stone foundation with igloo	mq.	0,00	55,20	0,00		
		CHAPTER TOTAL				0,00	0,00	0,00
FLOORINGS AND LININGS								
19	12.01.04a	Industrial flooring	mq.	1.148,00	28,40	32.603,20		
20	12.01.04b	Anti-dust treatment, etc	mq.	1.148,00	3,46	3.972,08		
21	3.02.10	Foundations, etc	mq.	0,00	11,75	0,00		
22	08.01.18d	Stoneware tiles, etc	mq.	0,00	25,00	0,00		
23	07.02.03b	False ceiling, etc	mq.	0,00	32,48	0,00		
		CHAPTER TOTAL				36.575,28	36.575,28	11,64

ESTIMATION DES TRAVAUX								
N.	CODE	DESCRIPTION SYNTETIQUE	U.M	Q.TE'	PR. UN.	MONTANT	CHAPITRE	%
	ART.				EURO	EURO		
EXCAVATIONS								
1	02.01.01a	Excavations à ciel ouvert, etc.	mc.	1.600,00	6,00	9.600,00		
2	02.01.05.a	Excavations à section obligée, etc.	mc.	1.019,00	11,44	11.657,36		
3	02.02.01a	Remblais, etc.	mc.	420,00	6,14	2.578,80		
4	03.01.01d	Pieu foré	ml.	1.080,00	82,92	89.553,60		
5	02.02.03b	Fourniture, étalement et cylindrage, etc.	mc.	350,00	18,59	6.506,50		
		TOTAL CHAPITRE				119.896,26	119.896,26	38,15
BETON-ACIER-COFFRAGES								
6	03.01.09a	Béton pour lits, etc.	mc.	105,00	75,07	7.882,35		
7	03.01.10c	Béton en fondations, etc.	mc.	602,00	94,36	56.804,72		
8	12.01.01	Additif antitermites	kg.	70,00	5,00	350,00		
9	03.04.01b	Acier Feb44k	kg.	62.091,00	1,08	67.058,28		
10	3.04.02	Réseau électrosoudé, etc.	kg.	6.500,00	1,32	8.580,00		
11	12.01.02	Fers en U, fermeture panneaux, etc.	Kg.	0,00	2,00	0,00		
12	03.01.11a	Coffrages en bois, etc.	mq.	650,00	21,69	14.098,50		
		TOTAL CHAPITRE				154.773,85	154.773,85	49,25
MAÇONNERIES-PLANCHERS-DIVISIONS INTERIEURES								
13	05.01.09b	Murage en blocs de béton, ép. 15 cm etc.	mq.	0,00	21,04	0,00		
14	05.01.09c	Murage en blocs de béton, ép. 20 cm etc.	mq.	0,00	22,38	0,00		
15	05.01.09.d	Murage en blocs de béton, ép. 25 cm etc.	mc.	0,00	186,14	0,00		
		TOTAL CHAPITRE				0,00	0,00	0,00
ENDUITS								
16	07.01.02c	Enduit rustique, etc.	mq.	0,00	17,56	0,00		
17	07.01.03c	Enduit à civil	mq.	0,00	18,74	0,00		
		TOTAL CHAPITRE				0,00	0,00	0,00
VIDES SANITAIRES								
18	12.01.03	Vide sanitaire avec igloo, etc.	mq.	0,00	55,20	0,00		
		TOTAL CHAPITRE				0,00	0,00	0,00
PLANCHERS ET REVETEMENTS								
19	12.01.04a	Plancher industriel	mq.	1.148,00	28,40	32.603,20		
20	12.01.04b	Traitement antipoussière, etc.	mq.	1.148,00	3,46	3.972,08		
21	3.02.10	Hourdis, etc.	mq.	0,00	11,75	0,00		
22	08.01.18d	Carreaux en grès, etc.	mq.	0,00	25,00	0,00		
23	07.02.03b	Faux plafond, etc.	mq.	0,00	32,48	0,00		
		TOTAL CHAPITRE				36.575,28	36.575,28	11,64



DOORS									
24	09.01.04a	Wooden inner door, etc	mq.	0,00	100,00	0,00			
25	12.01.05	Book door, etc	mq.	0,00	350,00	0,00			
26	12.01.06	Impactable doors, etc	mq.	0,00	200,00	0,00			
27	12.01.07	Sectional doors, etc	mq.	0,00	180,00	0,00			
28	12.01.08	Small entrance doors, etc	cad.	0,00	560,00	0,00			
29	12.01.09	External doorframes and glass doors	mq.	0,00	300,00	0,00			
CHAPTER TOTAL				0,00		0,00	0,00		
STRUTTURA METALLICA									
30	12.01.11		kg.	23.265,00	3,00	69.795,00			
CHAPTER TOTAL				1.126.675,54		0,00	0,00		
MISCELLANEOUS									
43	12.01.10	Iron stairs, etc	cad.	0,00	10.000,00	0,00			
CHAPTER TOTAL				0,00		0,00	0,00		
MASONRY ASSISTANCE									
44	13.01.15	Assistance for prefabricated structure, etc	cad.	15,00	200,00	3.000,00			
CHAPTER TOTAL				3.000,00		3.000,00	0,95		
TOTAL WORKS						314.245,39	100		

PORTES ET PORTES COCHERES									
24	09.01.04a	Tambour en bois, etc.	mq.	0,00	100,00	0,00			
25	12.01.05	Porte cochère plante, etc.	mq.	0,00	350,00	0,00			
26	12.01.06	Porte cochère accordéon, etc.	mq.	0,00	200,00	0,00			
27	12.01.07	Porte cochère sectionnaire, etc.	mq.	0,00	180,00	0,00			
28	12.01.08	Portes d'entrée, etc.	cad.	0,00	560,00	0,00			
29	12.01.09	Serrureries extérieures et vitrages	mq.	0,00	300,00	0,00			
TOTAL CHAPITRE				0,00		0,00	0,00		
STRUTTURA METALLICA									
30	12.01.11		kg.	23.265,00	3,00	69.795,00			
TOTAL CHAPITRE				1.126.675,54		0,00	0,00		
DIVERS									
43	12.01.10	Escaliers en fer, etc.	cad.	0,00	10.000,00	0,00			
TOTAL CHAPITRE				0,00		0,00	0,00		
ASSISTANCES DE MAÇONNERIE									
44	13.01.15	Assistance structure, etc.	cad.	15,00	200,00	3.000,00			
TOTAL CHAPITRE				3.000,00		3.000,00	0,95		
TOTAL TRAVAUX						314.245,39	100		



COSTS ESTIMATE								
N.	ART.	BRIEF DESCRIPTION	UNIT	QUANTITY	PRICE/UNIT	AMOUNT	CHAPTER	%
CODE					EURO			
EXCAVATION								
1	02.01.01a	Open working-face excavations, etc	mc.	858,00	6,00	5.148,00		
2	02.01.05.a	Compulsory excavations, etc	mc.	560,00	11,44	6.406,40		
3	02.02.01a	Reburials, etc	mc.	235,00	6,14	1.442,90		
4	03.01.01d	Drilled pole, etc	ml.	600,00	82,92	49.752,00		
5	02.02.03b	Supply, spreading, rolling, etc	mc.	200,00	18,59	3.718,00		
		CHAPTER TOTAL				66.467,30	66.467,30	39,16
CONCRETE - STEEL - FORMWORK								
6	03.01.09a	High-density inert matter concrete	mc.	60,00	75,07	4.504,20		
7	03.01.10c	Concrete for foundations, etc	mc.	326,00	94,36	30.761,36		
8	12.01.01	Anti-termite treatment, etc	kg.	40,00	5,00	200,00		
9	03.04.01b	Feb44k steel	kg.	32.924,00	1,08	35.557,92		
10	3.04.02	Electrically melded net, etc	kg.	2.950,00	1,32	3.894,00		
11	12.01.02	U-bars, pannel fastening, etc	Kg.	0,00	2,00	0,00		
12	03.01.11a	Wooden formwork, etc	mq.	360,00	21,69	7.808,40		
		CHAPTER TOTAL				82.725,88	82.725,88	48,74
MASONWORK - BASE BOARDING - INTERNAL DIVISIONS								
13	05.01.09b	Masonwork in 15-cm-thick concrete blocks, e	mq.	0,00	21,04	0,00		
14	05.01.09c	Masonwork in 20-cm-thick concrete blocks, e	mq.	0,00	22,38	0,00		
15	05.01.09.d	Masonwork in 25-cm-thick concrete blocks, e	mc.	0,00	186,14	0,00		
		CHAPTER TOTAL				0,00	0,00	0,00
PLASTERING								
16	07.01.02c	Rustic plastering, etc	mq.	0,00	17,56	0,00		
17	07.01.03c	"Civil Plaster"	mq.	0,00	18,74	0,00		
		CHAPTER TOTAL				0,00	0,00	0,00
LOOSE STONE FOUNDATION								
18	12.01.03	Loose stone foundation with igloo	mq.	0,00	55,20	0,00		
		CHAPTER TOTAL				0,00	0,00	0,00
FLOORINGS AND LININGS								
19	12.01.04a	Industrial flooring	mq.	588,00	28,40	16.699,20		
20	12.01.04b	Anti-dust treatment, etc	mq.	588,00	3,46	2.034,48		
21	3.02.10	Foundations, etc	mq.	0,00	11,75	0,00		
22	08.01.18d	Stoneware tiles, etc	mq.	0,00	25,00	0,00		
23	07.02.03b	False ceiling, etc	mq.	0,00	32,48	0,00		
		CHAPTER TOTAL				18.733,68	18.733,68	11,04

ESTIMATION DES TRAVAUX								
N.	CODE	DESCRIPTION SYNTETIQUE	U.M	Q.TE'	PR. UN.	MONTANT	CHAPITRE	%
	ART.				EURO	EURO		
EXCAVATIONS								
1	02.01.01a	Excavations à ciel ouvert, etc.	mc.	858,00	6,00	5.148,00		
2	02.01.05.a	Excavations à section oblique, etc.	mc.	560,00	11,44	6.406,40		
3	02.02.01a	Remblais, etc.	mc.	235,00	6,14	1.442,90		
4	03.01.01d	Pieu foré	ml.	600,00	82,92	49.752,00		
5	02.02.03b	Fourniture, étalement et cylindrage, etc.	mc.	200,00	18,59	3.718,00		
		TOTAL CHAPITRE				66.467,30	66.467,30	39,16
BETON-ACIER-COFFRAGES								
6	03.01.09a	Béton pour lits, etc.	mc.	60,00	75,07	4.504,20		
7	03.01.10c	Béton en fondations, etc.	mc.	326,00	94,36	30.761,36		
8	12.01.01	Additif antitermites	kg.	40,00	5,00	200,00		
9	03.04.01b	Acier Feb44k	kg.	32.924,00	1,08	35.557,92		
10	3.04.02	Réseau électrosoudé, etc.	kg.	2.950,00	1,32	3.894,00		
11	12.01.02	Fers en U, fermeture panneaux, etc.	Kg.	0,00	2,00	0,00		
12	03.01.11a	Coffrages en bois, etc.	mq.	360,00	21,69	7.808,40		
		TOTAL CHAPITRE				82.725,88	82.725,88	48,74
MAÇONNERIES-PLANCHERS-DIVISIONS INTERIEURES								
13	05.01.09b	Murage en blocs de béton, ép. 15 cm etc.	mq.	0,00	21,04	0,00		
14	05.01.09c	Murage en blocs de béton, ép. 20 cm etc.	mq.	0,00	22,38	0,00		
15	05.01.09.d	Murage en blocs de béton, ép. 25 cm etc.	mc.	0,00	186,14	0,00		
		TOTAL CHAPITRE				0,00	0,00	0,00
ENDUITS								
16	07.01.02c	Enduit rustique, etc.	mq.	0,00	17,56	0,00		
17	07.01.03c	Enduit à civil	mq.	0,00	18,74	0,00		
		TOTAL CHAPITRE				0,00	0,00	0,00
VIDES SANITAIRES								
18	12.01.03	Vide sanitaire avec igloo, etc.	mq.	0,00	55,20	0,00		
		TOTAL CHAPITRE				0,00	0,00	0,00
PLANCHERS ET REVETEMENTS								
19	12.01.04a	Plancher industriel	mq.	588,00	28,40	16.699,20		
20	12.01.04b	Traitement antipoussière, etc.	mq.	588,00	3,46	2.034,48		
21	3.02.10	Hourdis, etc.	mq.	0,00	11,75	0,00		
22	08.01.18d	Carreaux en grès, etc.	mq.	0,00	25,00	0,00		
23	07.02.03b	Faux plafond, etc.	mq.	0,00	32,48	0,00		
		TOTAL CHAPITRE				18.733,68	18.733,68	11,04



DOORS									
24	09.01.04a	Wooden inner door, etc	mq.	0,00	100,00	0,00			
25	12.01.05	Book door, etc	mq.	0,00	350,00	0,00			
26	12.01.06	Impactable doors, etc	mq.	0,00	200,00	0,00			
27	12.01.07	Sectional doors, etc	mq.	0,00	180,00	0,00			
28	12.01.08	Small entrance doors, etc	cad.	0,00	560,00	0,00			
29	12.01.09	External doorframes and glass doors	mq.	0,00	300,00	0,00			
CHAPTER TOTAL				0,00		0,00	0,00		
STRUTTURA METALLICA									
30	12.01.11		kg.	23.265,00	3,00	69.795,00			
CHAPTER TOTAL					1.126.675,54		0,00	0,00	
MISCELLANEOUS									
43	12.01.10	Iron stairs, etc	cad.	0,00	10.000,00	0,00			
CHAPTER TOTAL					0,00		0,00	0,00	
MASONRY ASSISTANCE									
44	13.01.15	Assistance for prefabricated structure, etc	cad.	9,00	200,00	1.800,00			
CHAPTER TOTAL					1.800,00		1.800,00	1,06	
TOTAL WORKS							169.726,86	100	

PORTES ET PORTES COCHERES									
24	09.01.04a	Tambour en bois, etc.	mq.	0,00	100,00	0,00			
25	12.01.05	Porte cochère plante, etc.	mq.	0,00	350,00	0,00			
26	12.01.06	Porte cochère accordéon, etc.	mq.	0,00	200,00	0,00			
27	12.01.07	Porte cochère sectionnaire, etc.	mq.	0,00	180,00	0,00			
28	12.01.08	Portes d'entrée, etc.	cad.	0,00	560,00	0,00			
29	12.01.09	Serrureries extérieures et vitrages	mq.	0,00	300,00	0,00			
TOTAL CHAPITRE					0,00		0,00	0,00	
STRUTTURA METALLICA									
30	12.01.11	Pilastro HEA, etc	kg.	23.265,00	3,00	69.795,00			
TOTAL CHAPITRE					1.126.675,54		0,00	0,00	
DIVERS									
43	12.01.10	Escaliers en fer, etc.	cad.	0,00	10.000,00	0,00			
TOTAL CHAPITRE					0,00		0,00	0,00	
ASSISTANCES DE MAÇONNERIE									
44	13.01.15	Assistance structure, etc.	cad.	9,00	200,00	1.800,00			
TOTAL CHAPITRE					1.800,00		1.800,00	1,06	
TOTAL TRAVAUX							169.726,86	100	



COSTS ESTIMATE								
N.	ART.	BRIEF DESCRIPTION	UNIT	QUANTITY	PRICE/UNIT	AMOUNT	CHAPTER	%
	CODE					EURO		
EXCAVATION								
1	02.01.01a	Open working-face excavations, etc	mc.	858,00	6,00	5.148,00		
2	02.01.05.a	Compulsory excavations, etc	mc.	560,00	11,44	6.406,40		
3	02.02.01a	Reburials, etc	mc.	235,00	6,14	1.442,90		
4	03.01.01d	Drilled pole, etc	ml.	600,00	82,92	49.752,00		
5	02.02.03b	Supply, spreading, rolling, etc	mc.	200,00	18,59	3.718,00		
CHAPTER TOTAL						66.467,30	66.467,30	39,16
CONCRETE - STEEL - FORMWORK								
6	03.01.09a	High-density inert matter concrete	mc.	60,00	75,07	4.504,20		
7	03.01.10c	Concrete for foundations, etc	mc.	326,00	94,36	30.761,36		
8	12.01.01	Anti-termite treatment, etc	kg.	40,00	5,00	200,00		
9	03.04.01b	Feb44k steel	kg.	32.924,00	1,08	35.557,92		
10	3.04.02	Electrically melded net, etc	kg.	2.950,00	1,32	3.894,00		
11	12.01.02	U-bars, pannel fastening, etc	Kg.	0,00	2,00	0,00		
12	03.01.11a	Wooden formwork, etc	mq.	360,00	21,69	7.808,40		
CHAPTER TOTAL						82.725,88	82.725,88	48,74
MASONWORK - BASE BOARDING - INTERNAL DIVISIONS								
13	05.01.09b	Masonwork in 15-cm-thick concrete blocks, e	mq.	0,00	21,04	0,00		
14	05.01.09c	Masonwork in 20-cm-thick concrete blocks, e	mq.	0,00	22,38	0,00		
15	05.01.09.d	Masonwork in 25-cm-thick concrete blocks, e	mc.	0,00	186,14	0,00		
CHAPTER TOTAL						0,00	0,00	0,00
PLASTERING								
16	07.01.02c	Rustic plastering, etc	mq.	0,00	17,56	0,00		
17	07.01.03c	"Civil Plaster"	mq.	0,00	18,74	0,00		
CHAPTER TOTAL						0,00	0,00	0,00
LOOSE STONE FOUNDATION								
18	12.01.03	Loose stone foundation with igloo	mq.	0,00	55,20	0,00		
CHAPTER TOTAL						0,00	0,00	0,00
FLOORINGS AND LININGS								
19	12.01.04a	Industrial flooring	mq.	588,00	28,40	16.699,20		
20	12.01.04b	Anti-dust treatment, etc	mq.	588,00	3,46	2.034,48		
21	3.02.10	Foundations, etc	mq.	0,00	11,75	0,00		
22	08.01.18d	Stoneware tiles, etc	mq.	0,00	25,00	0,00		
23	07.02.03b	False ceiling, etc	mq.	0,00	32,48	0,00		
CHAPTER TOTAL						18.733,68	18.733,68	11,04

ESTIMATION DES TRAVAUX								
N.	CODE	DESCRIPTION SYNTETIQUE	U.M	Q.TE'	PR. UN.	MONTANT	CHAPITRE	%
	ART.				EURO	EURO		
EXCAVATIONS								
1	02.01.01a	Excavations à ciel ouvert, etc.	mc.	858,00	6,00	5.148,00		
2	02.01.05.a	Excavations à section obligée, etc.	mc.	560,00	11,44	6.406,40		
3	02.02.01a	Remblais, etc.	mc.	235,00	6,14	1.442,90		
4	03.01.01d	Pieu foré	ml.	600,00	82,92	49.752,00		
5	02.02.03b	Fourniture, étalement et cylindrage, etc.	mc.	200,00	18,59	3.718,00		
TOTAL CHAPITRE						66.467,30	66.467,30	39,16
BETON-ACIER-COFFRAGES								
6	03.01.09a	Béton pour lits, etc.	mc.	60,00	75,07	4.504,20		
7	03.01.10c	Béton en fondations, etc.	mc.	326,00	94,36	30.761,36		
8	12.01.01	Additif antitermites	kg.	40,00	5,00	200,00		
9	03.04.01b	Acier Feb44k	kg.	32.924,00	1,08	35.557,92		
10	3.04.02	Réseau électrosoudé, etc.	kg.	2.950,00	1,32	3.894,00		
11	12.01.02	Fers en U, fermeture panneaux, etc.	Kg.	0,00	2,00	0,00		
12	03.01.11a	Coffrages en bois, etc.	mq.	360,00	21,69	7.808,40		
TOTAL CHAPITRE						82.725,88	82.725,88	48,74
MAÇONNERIES-PLANCHERS-DIVISIONS INTERIEURES								
13	05.01.09b	Murage en blocs de béton, ép. 15 cm etc.	mq.	0,00	21,04	0,00		
14	05.01.09c	Murage en blocs de béton, ép. 20 cm etc.	mq.	0,00	22,38	0,00		
15	05.01.09.c	Murage en blocs de béton, ép. 25 cm etc.	mc.	0,00	186,14	0,00		
TOTAL CHAPITRE						0,00	0,00	0,00
ENDUITS								
16	07.01.02c	Enduit rustique, etc.	mq.	0,00	17,56	0,00		
17	07.01.03c	Enduit à civil	mq.	0,00	18,74	0,00		
TOTAL CHAPITRE						0,00	0,00	0,00
VIDES SANITAIRES								
18	12.01.03	Vide sanitaire avec igloo, etc.	mq.	0,00	55,20	0,00		
TOTAL CHAPITRE						0,00	0,00	0,00
PLANCHERS ET REVETEMENTS								
19	12.01.04a	Plancher industriel	mq.	588,00	28,40	16.699,20		
20	12.01.04b	Traitement antipoussière, etc.	mq.	588,00	3,46	2.034,48		
21	3.02.10	Hourdis, etc.	mq.	0,00	11,75	0,00		
22	08.01.18d	Carreaux en grès, etc.	mq.	0,00	25,00	0,00		
23	07.02.03b	Faux plafond, etc.	mq.	0,00	32,48	0,00		
TOTAL CHAPITRE						18.733,68	18.733,68	11,04



DOORS									
24	09.01.04a	Wooden inner door, etc	mq.	0,00	100,00	0,00			
25	12.01.05	Book door, etc	mq.	0,00	350,00	0,00			
26	12.01.06	Impactable doors, etc	mq.	0,00	200,00	0,00			
27	12.01.07	Sectional doors, etc	mq.	0,00	180,00	0,00			
28	12.01.08	Small entrance doors, etc	cad.	0,00	560,00	0,00			
29	12.01.09	External doorframes and glass doors	mq.	0,00	300,00	0,00			
CHAPTER TOTAL				0,00		0,00	0,00		
STRUTTURA METALLICA									
30	12.01.11		kg.	23.265,00	3,00	69.795,00			
CHAPTER TOTAL				1.126.675,54		0,00	0,00		
MISCELLANEOUS									
43	12.01.10	Iron stairs, etc	cad.	0,00	10.000,00	0,00			
CHAPTER TOTAL				0,00		0,00	0,00		
MASONRY ASSISTANCE									
44	13.01.15	Assistance for prefabricated structure, etc	cad.	9,00	200,00	1.800,00			
CHAPTER TOTAL				1.800,00		1.800,00	1,06		
TOTAL WORKS						169.726,86	100		

PORTES ET PORTES COCHERES									
24	09.01.04a	Tambour en bois, etc.	mq.	0,00	100,00	0,00			
25	12.01.05	Porte cochère plante, etc.	mq.	0,00	350,00	0,00			
26	12.01.06	Porte cochère accordéon, etc.	mq.	0,00	200,00	0,00			
27	12.01.07	Porte cochère sectionnaire, etc.	mq.	0,00	180,00	0,00			
28	12.01.08	Portes d'entrée, etc.	cad.	0,00	560,00	0,00			
29	12.01.09	Serrureries extérieures et vitrages	mq.	0,00	300,00	0,00			
TOTAL CHAPITRE				0,00		0,00	0,00		
STRUTTURA METALLICA									
30	12.01.11		kg.	23.265,00	3,00	69.795,00			
TOTAL CHAPITRE				1.126.675,54		0,00	0,00		
DIVERS									
43	12.01.10	Escaliers en fer, etc.	cad.	0,00	10.000,00	0,00			
TOTAL CHAPITRE				0,00		0,00	0,00		
ASSISTANCES DE MAÇONNERIE									
44	13.01.15	Assistance structure, etc.	cad.	9,00	200,00	1.800,00			
TOTAL CHAPITRE				1.800,00		1.800,00	1,06		
TOTAL TRAVAUX						169.726,86	100		



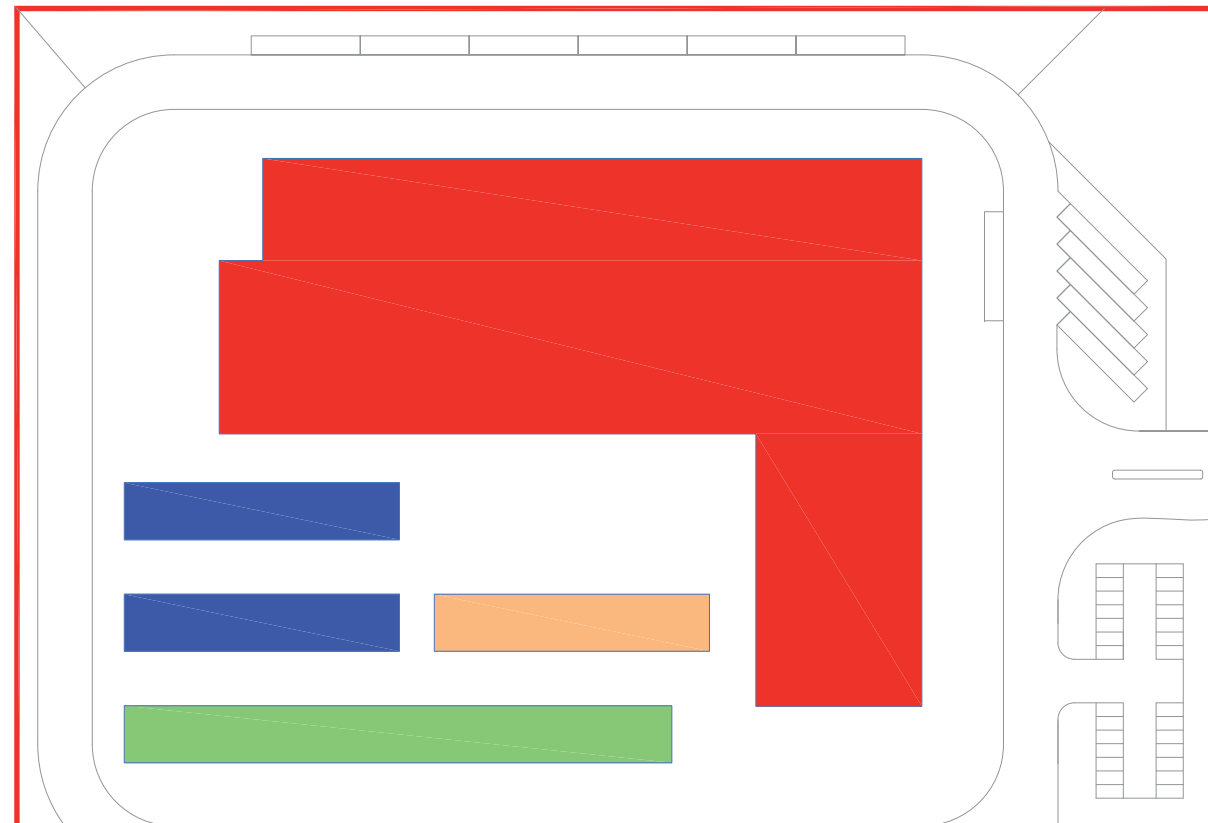
COSTS ESTIMATE								
N.	ART. CODE	BRIEF DESCRIPTION	UNIT	QUANTITY	PRICE/UNIT	AMOUNT EURO	CHAPTER	%
EXCAVATION								
1	02.01.01a	Open working-face excavations, etc	mc.	858,00	6,00	5.148,00		
2	02.01.05.a	Compulsory excavations, etc	mc.	560,00	11,44	6.406,40		
3	02.02.01a	Reburials, etc	mc.	235,00	6,14	1.442,90		
4	03.01.01d	Drilled pole, etc	ml.	600,00	82,92	49.752,00		
5	02.02.03b	Supply, spreading, rolling, etc	mc.	200,00	18,59	3.718,00		
CHAPTER TOTAL						66.467,30	66.467,30	39,16
CONCRETE - STEEL - FORMWORK								
6	03.01.09a	High-density inert matter concrete	mc.	60,00	75,07	4.504,20		
7	03.01.10c	Concrete for foundations, etc	mc.	326,00	94,36	30.761,36		
8	12.01.01	Anti-termite treatment, etc	kg.	40,00	5,00	200,00		
9	03.04.01b	Feb44k steel	kg.	32.924,00	1,08	35.557,92		
10	3.04.02	Electrically melded net, etc	kg.	2.950,00	1,32	3.894,00		
11	12.01.02	U-bars, pannel fastening, etc	Kg.	0,00	2,00	0,00		
12	03.01.11a	Wooden formwork, etc	mq.	360,00	21,69	7.808,40		
CHAPTER TOTAL						82.725,88	82.725,88	48,74
MASONWORK - BASE BOARDING - INTERNAL DIVISIONS								
13	05.01.09b	Masonwork in 15-cm-thick concrete blocks, e	mq.	0,00	21,04	0,00		
14	05.01.09c	Masonwork in 20-cm-thick concrete blocks, e	mq.	0,00	22,38	0,00		
15	05.01.09.d	Masonwork in 25-cm-thick concrete blocks, e	mc.	0,00	186,14	0,00		
CHAPTER TOTAL						0,00	0,00	0,00
PLASTERING								
16	07.01.02c	Rustic plastering, etc	mq.	0,00	17,56	0,00		
17	07.01.03c	"Civil Plaster"	mq.	0,00	18,74	0,00		
CHAPTER TOTAL						0,00	0,00	0,00
LOOSE STONE FOUNDATION								
18	12.01.03	Loose stone foundation with igloo	mq.	0,00	55,20	0,00		
CHAPTER TOTAL						0,00	0,00	0,00
FLOORINGS AND LININGS								
19	12.01.04a	Industrial flooring	mq.	588,00	28,40	16.699,20		
20	12.01.04b	Anti-dust treatment, etc	mq.	588,00	3,46	2.034,48		
21	3.02.10	Foundations, etc	mq.	0,00	11,75	0,00		
22	08.01.18d	Stoneware tiles, etc	mq.	0,00	25,00	0,00		
23	07.02.03b	False ceiling, etc	mq.	0,00	32,48	0,00		
CHAPTER TOTAL						18.733,68	18.733,68	11,04

ESTIMATION DES TRAVAUX								
N.	CODE ART.	DESCRIPTION SYNTETIQUE	U.M	Q.TE'	PR. UN. EURO	MONTANT EURO	CHAPITRE	%
EXCAVATIONS								
1	02.01.01a	Excavations à ciel ouvert, etc.	mc.	858,00	6,00	5.148,00		
2	02.01.05.a	Excavations à section obligée, etc.	mc.	560,00	11,44	6.406,40		
3	02.02.01a	Remblais, etc.	mc.	235,00	6,14	1.442,90		
4	03.01.01d	Pieu foré	ml.	600,00	82,92	49.752,00		
5	02.02.03b	Fourniture, étalement et cylindrage, etc.	mc.	200,00	18,59	3.718,00		
TOTAL CHAPITRE						66.467,30	66.467,30	39,16
BETON-ACIER-COFFRAGES								
6	03.01.09a	Béton pour lits, etc.	mc.	60,00	75,07	4.504,20		
7	03.01.10c	Béton en fondations, etc.	mc.	326,00	94,36	30.761,36		
8	12.01.01	Additif antitermites	kg.	40,00	5,00	200,00		
9	03.04.01b	Acier Feb44k	kg.	32.924,00	1,08	35.557,92		
10	3.04.02	Réseau électrosoudé, etc.	kg.	2.950,00	1,32	3.894,00		
11	12.01.02	Fers en U, fermeture panneaux, etc.	Kg.	0,00	2,00	0,00		
12	03.01.11a	Coffrages en bois, etc.	mq.	360,00	21,69	7.808,40		
TOTAL CHAPITRE						82.725,88	82.725,88	48,74
MAÇONNERIES-PLANCHERS-DIVISIONS INTERIEURES								
13	05.01.09b	Murage en blocs de béton, ép. 15 cm etc.	mq.	0,00	21,04	0,00		
14	05.01.09c	Murage en blocs de béton, ép. 20 cm etc.	mq.	0,00	22,38	0,00		
15	05.01.09.d	Murage en blocs de béton, ép. 25 cm etc.	mc.	0,00	186,14	0,00		
TOTAL CHAPITRE						0,00	0,00	0,00
ENDUITS								
16	07.01.02c	Enduit rustique, etc.	mq.	0,00	17,56	0,00		
17	07.01.03c	Enduit à civil	mq.	0,00	18,74	0,00		
TOTAL CHAPITRE						0,00	0,00	0,00
VIDES SANITAIRES								
18	12.01.03	Vide sanitaire avec igloo, etc.	mq.	0,00	55,20	0,00		
TOTAL CHAPITRE						0,00	0,00	0,00
PLANCHERS ET REVETEMENTS								
19	12.01.04a	Plancher industriel	mq.	588,00	28,40	16.699,20		
20	12.01.04b	Traitement antipoussière, etc.	mq.	588,00	3,46	2.034,48		
21	3.02.10	Hourdis, etc.	mq.	0,00	11,75	0,00		
22	08.01.18d	Carreaux en grès, etc.	mq.	0,00	25,00	0,00		
23	07.02.03b	Faux plafond, etc.	mq.	0,00	32,48	0,00		
TOTAL CHAPITRE						18.733,68	18.733,68	11,04



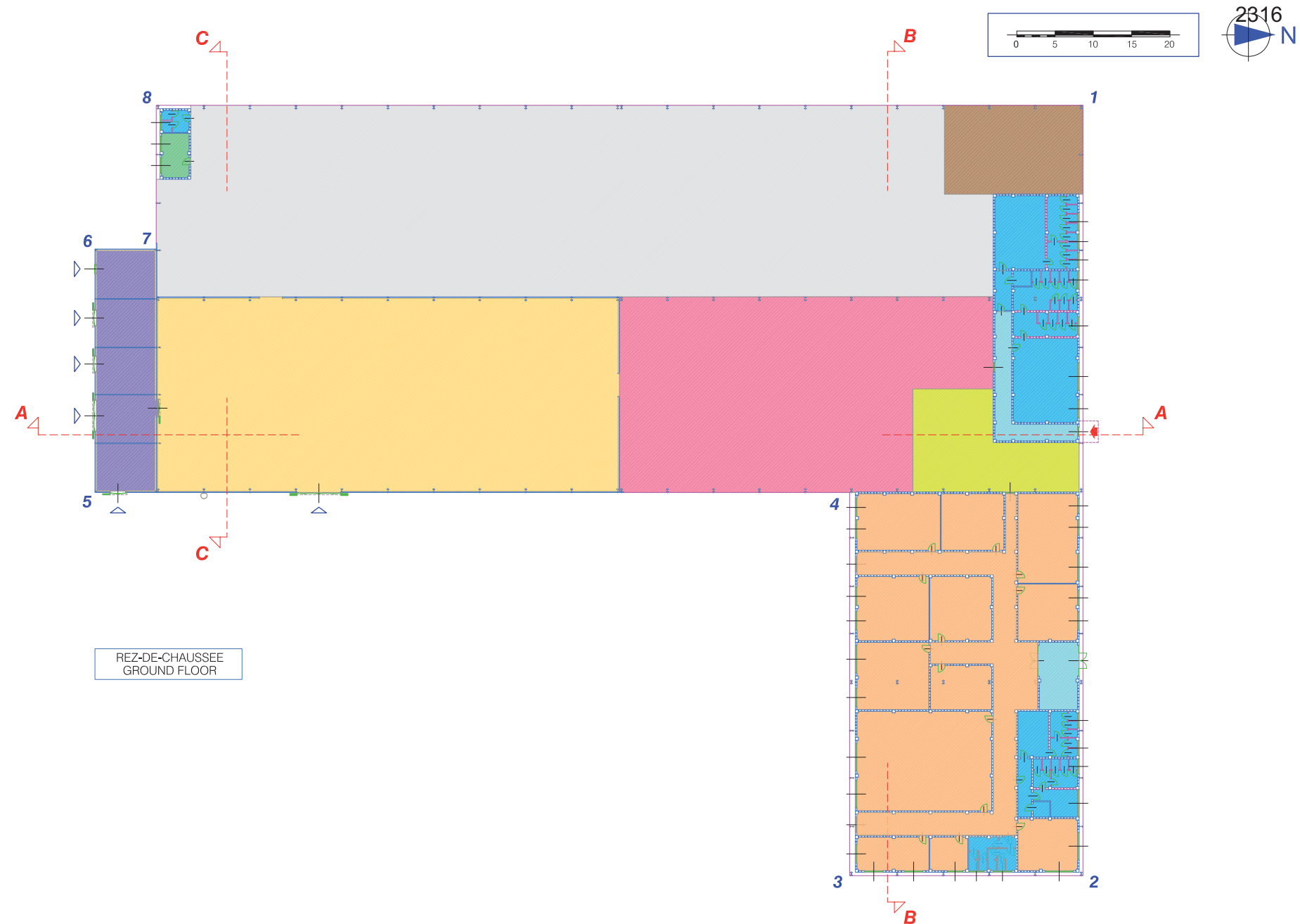
DOORS									
24	09.01.04a	Wooden inner door, etc	mq.	0,00	100,00	0,00			
25	12.01.05	Book door, etc	mq.	0,00	350,00	0,00			
26	12.01.06	Impactable doors, etc	mq.	0,00	200,00	0,00			
27	12.01.07	Sectional doors, etc	mq.	0,00	180,00	0,00			
28	12.01.08	Small entrance doors, etc	cad.	0,00	560,00	0,00			
29	12.01.09	External doorframes and glass doors	mq.	0,00	300,00	0,00			
				CHAPTER TOTAL		0,00		0,00	0,00
STRUTTURA METALLICA									
30	12.01.11		kg.	23.265,00	3,00	69.795,00			
				CHAPTER TOTAL		1.126.675,54		0,00	0,00
MISCELLANEOUS									
43	12.01.10	Iron stairs, etc	cad.	0,00	10.000,00	0,00			
				CHAPTER TOTAL		0,00		0,00	0,00
MASONRY ASSISTANCE									
44	13.01.15	Assistance for prefabricated structure, etc	cad.	9,00	200,00	1.800,00			
				CHAPTER TOTAL		1.800,00		1.800,00	1,06
				TOTAL WORKS				169.726,86	100

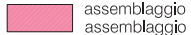
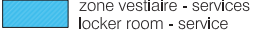
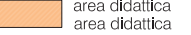
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|---|-----------------------|----------|--|---|-----------------------|----------|--|
|  | Typologie
Typology | A | PORTES - FENÊTRES
DOORS - WINDOWS |  | Typologie
Typology | C | CHAMBRES DE SÉCHAGE
DRYING CELLS |
|  | Typologie
Typology | B | HANGAR PRESÉCHAGE
PREDRYING ROOFING |  | Typologie
Typology | D | HANGAR TABLE SÉCHOIR
DRYING ROOFING TABLE |

DESSIN DRAWING	02	CDA
TYPOLIGIES DE PRODUCTION PRODUCTION TYPOLOGIES	36/W1	



 entrée entrance	 bureau office	 zone technique technical area	 zone de travail working area	 assemblaggio assemblaggio
 zone vestiaire - services locker room - service	 area didattica area didattica	 réserve matériel stock prime material	 reparto verniciatura reparto verniciatura	 stock produit fini stock final product

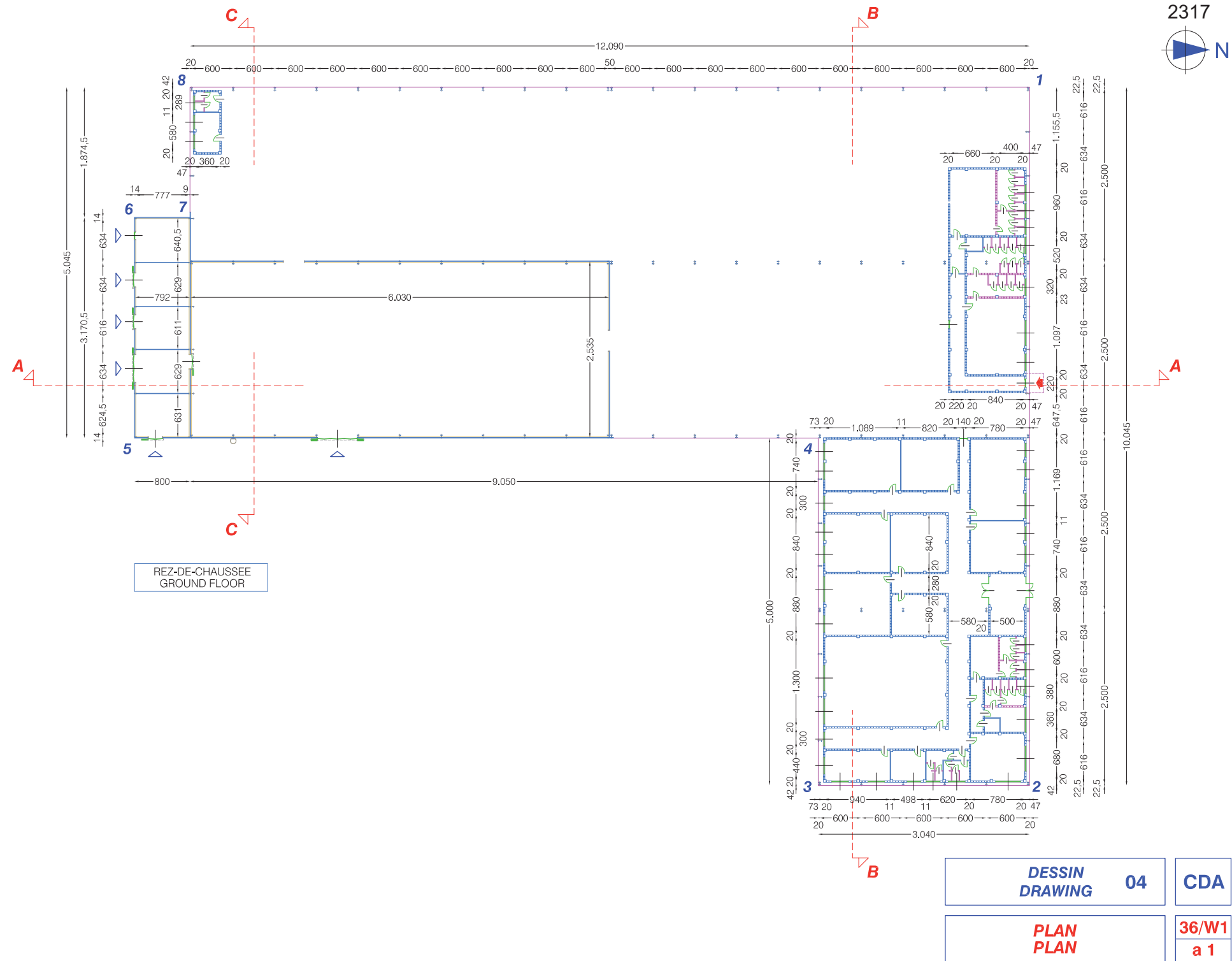
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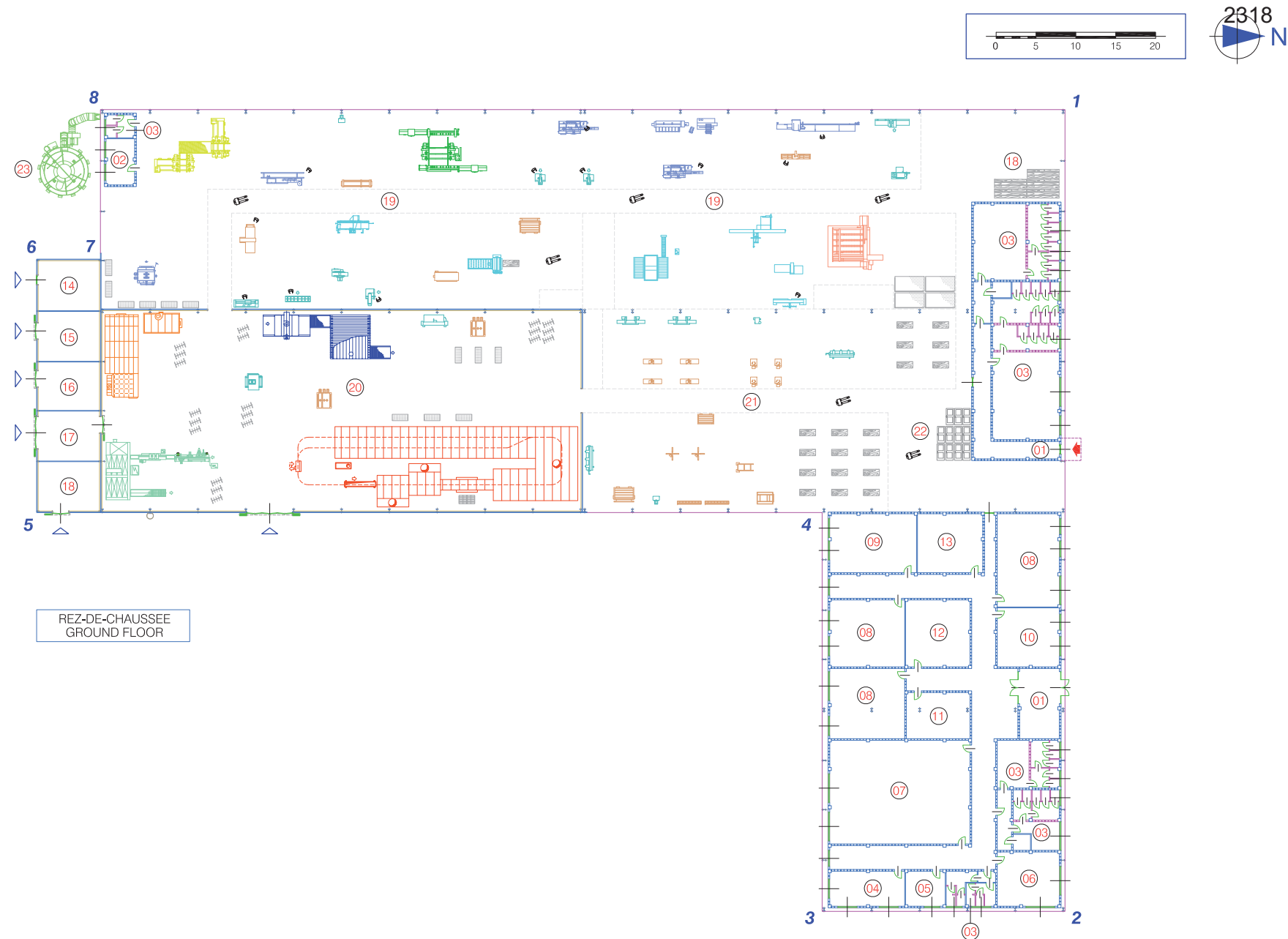
CDA

ZONES FONCTIONNELLES
FUNCTIONAL AREAS

36/W1
a 1







01 entrée entrance	04 segreteria segreteria	07 aula magna aula magna	10 aula biblioteca aula biblioteca	13 laboratorio elettromeccanica laboratorio elettromeccanica	16 centrale termica centrale termica	19 zone de travail working area	22 stock produit fini stock final product
02 bureau office	05 direzione direzione	08 aula teoria aula teoria	11 video biblioteca video biblioteca	14 chambre des armoires electriques electric cabinets room	17 reparto manutenzione reparto manutenzione	20 reparto verniciatura reparto verniciatura	23 silo silo
03 zone vestiaire-services locker room-services	06 aula docenti aula docenti	09 aula disegno aula disegno	12 laboratorio informatica laboratorio informatica	15 chambre des compresseurs compressors room	18 réserve du matériel stock prime material	21 assemblaggio assemblaggio	

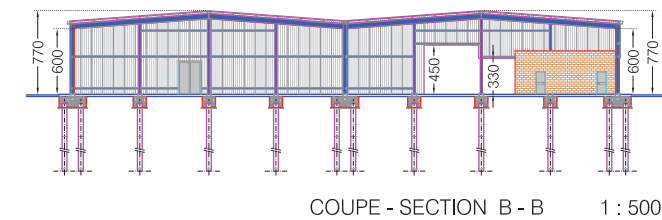
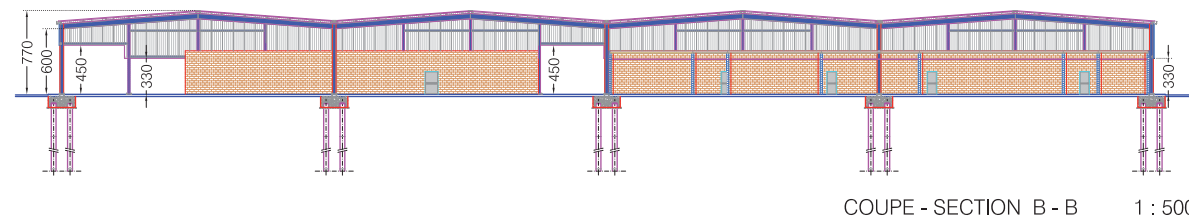
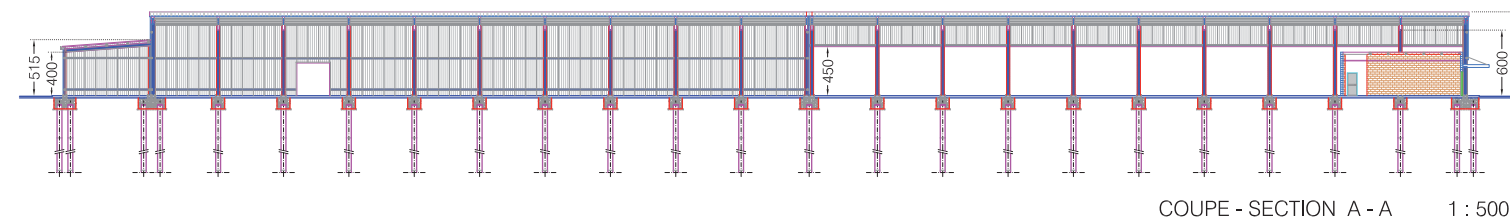
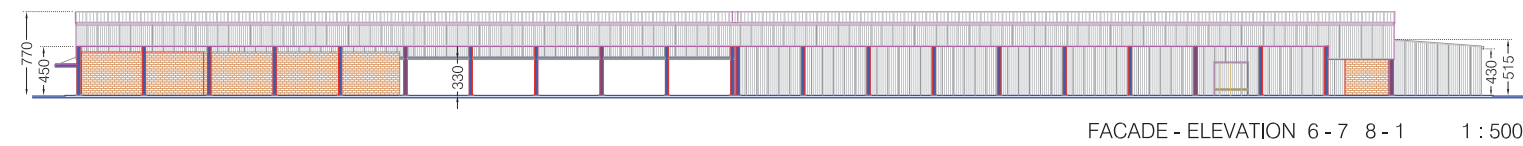
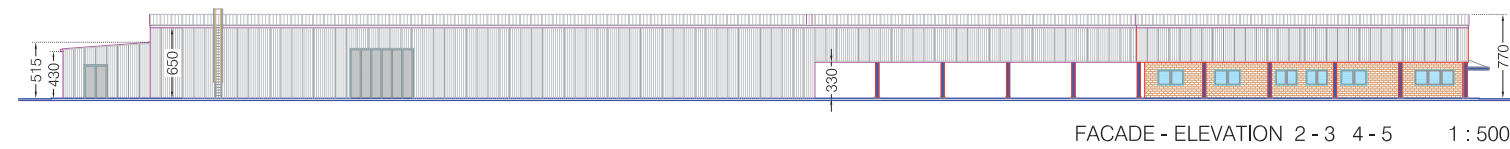
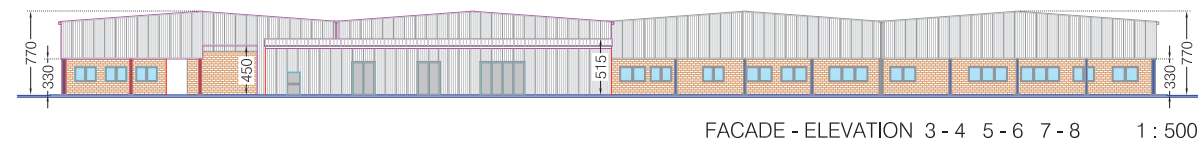
**DESSIN
DRAWING** 06

**PLAN PRODUCTION
PRODUCTION LAY-OUT**

CDA

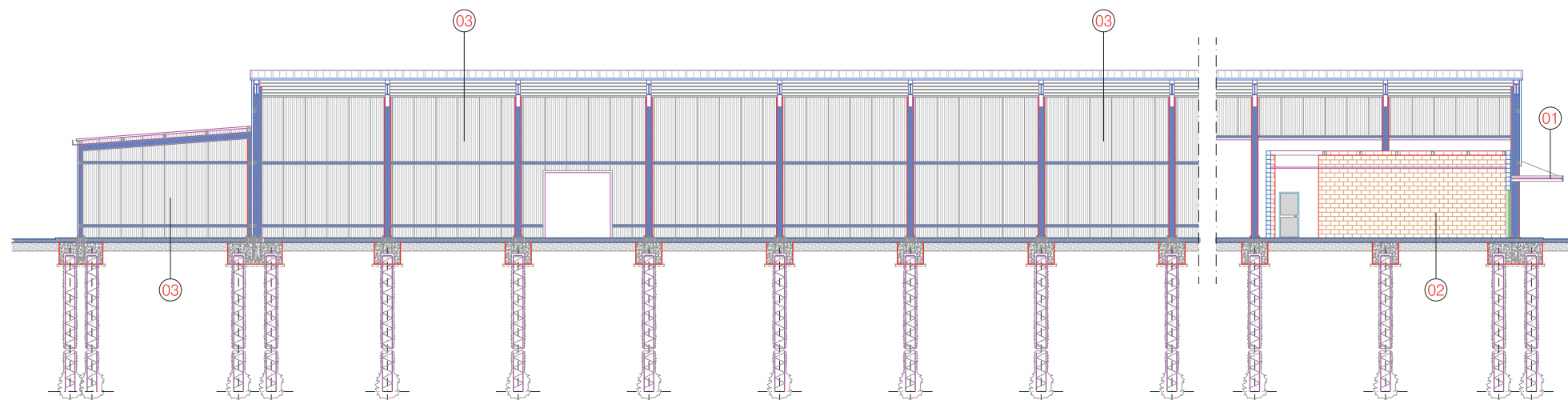
**36/W1
a 1**



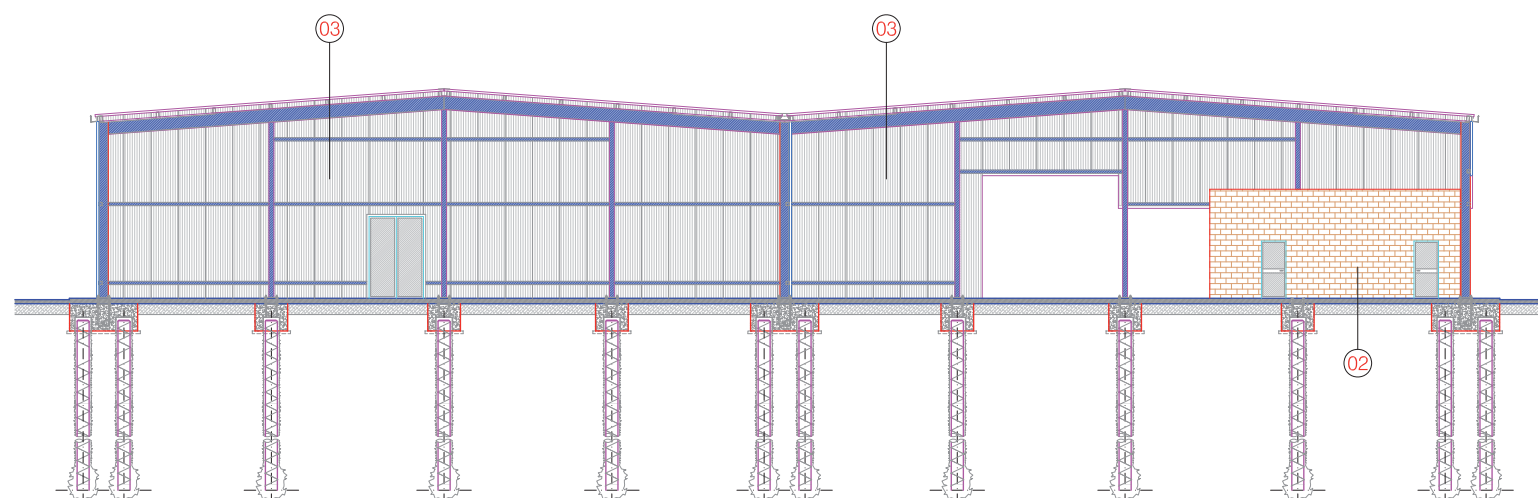


DESSIN DRAWING 07	CDA
COUPES-FACADES SECTIONS-ELEVATIONS	36/W1 a 1

2320



COUPE - SECTION A - A 1 : 200



COUPE - SECTION C - C 1 : 200

- ① auvent de couverture entrée
entrance covering platform
- ② mur de briques en béton vibrant
couleur ocre
vibrate concrete masonry
colour ochre
- ③ panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation

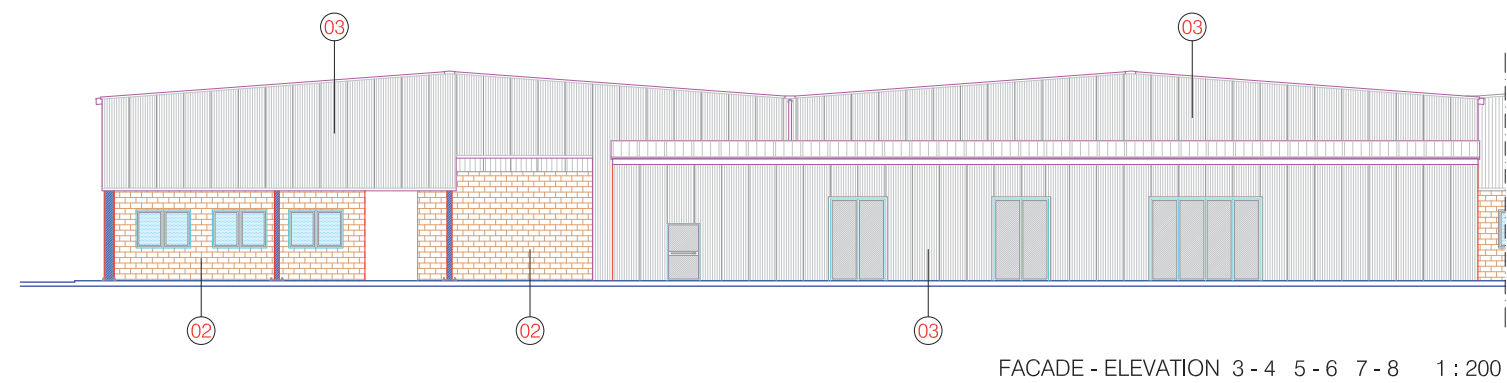
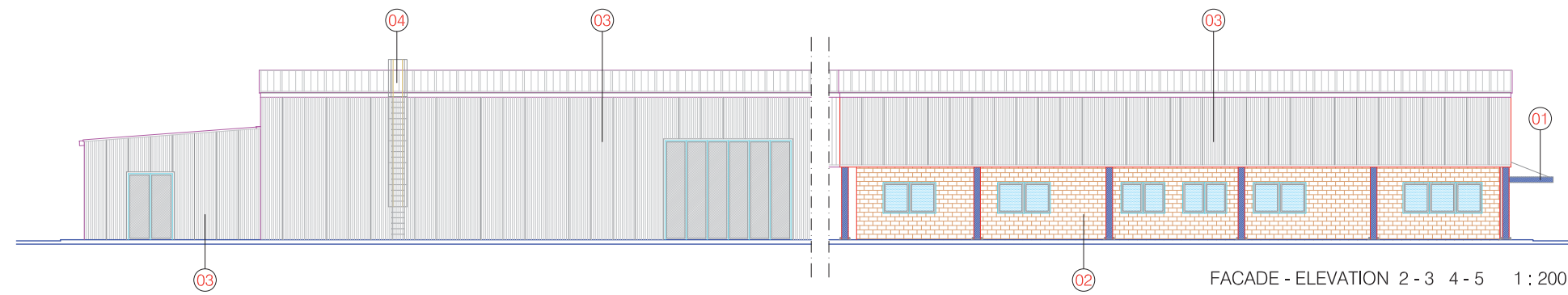
DESSIN
DRAWING 07a

CDA

SECTIONS-ELEVATIONS

36/W1
a 1





- 01 auvent de couverture entrée
entrance covering platform
- 02 mur de briques en béton vibrant
couleur ocre
vibrate concrete masonry
colour ochre
- 03 panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation
- 04 échelle d'accès à la couverture
stair of access to the coverage

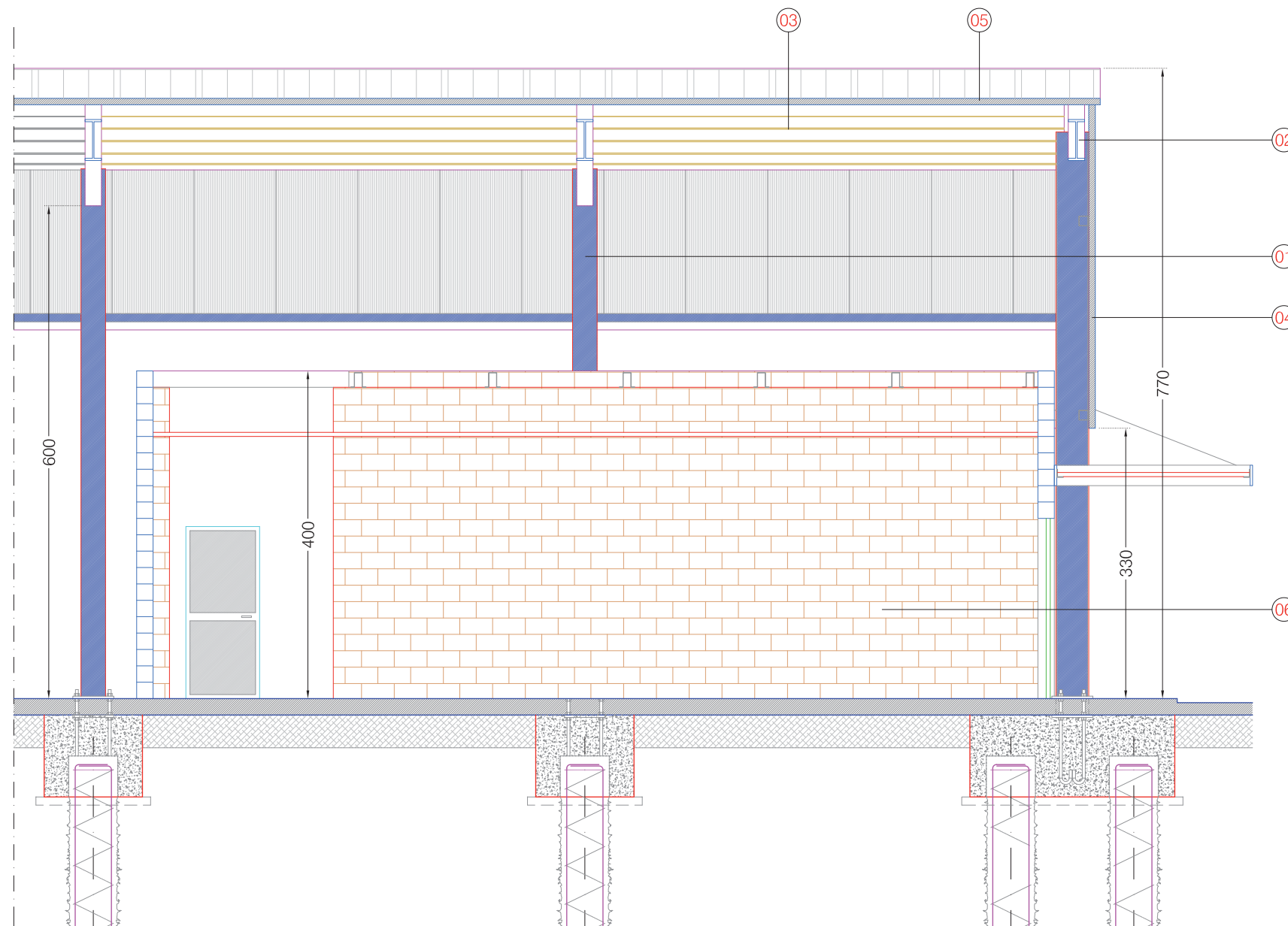
DESSIN
DRAWING 07b

CDA

COUPES-FACADES

36/W1
a 1





COUPE - SECTION A - A 1 : 50

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio

- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- 06 mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre

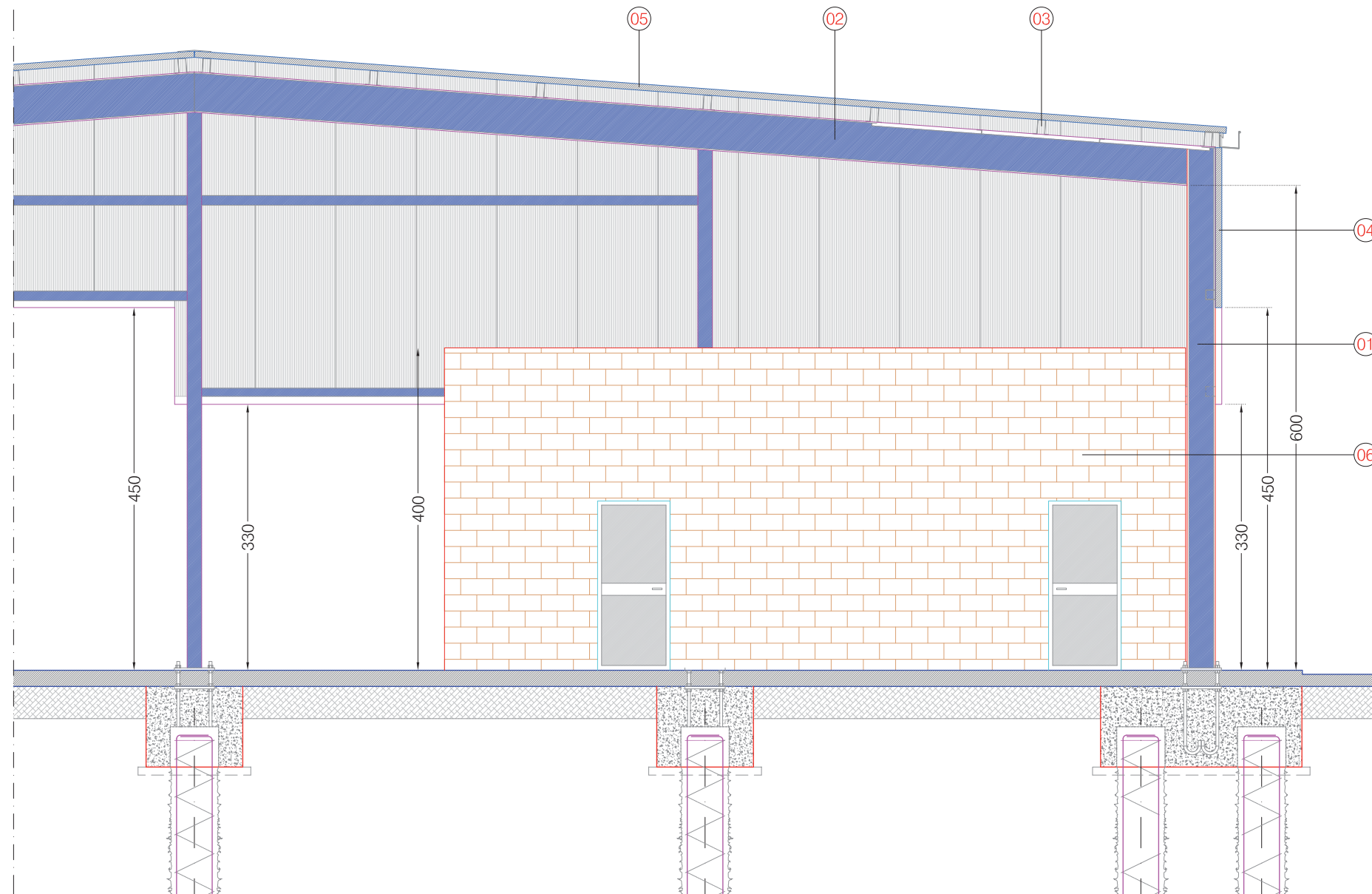
DESSIN
DRAWING 08

CDA

SECTION-ELEVATION

36/W1
a 1





COUPE - SECTION A - A 1 : 50

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio

- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- 06 mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre

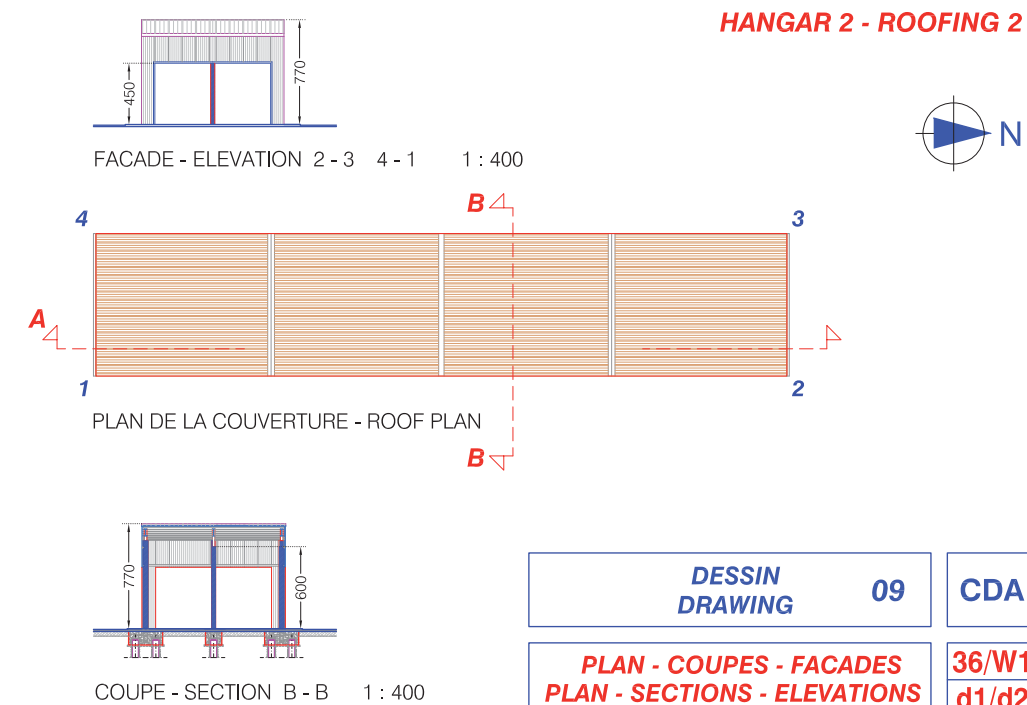
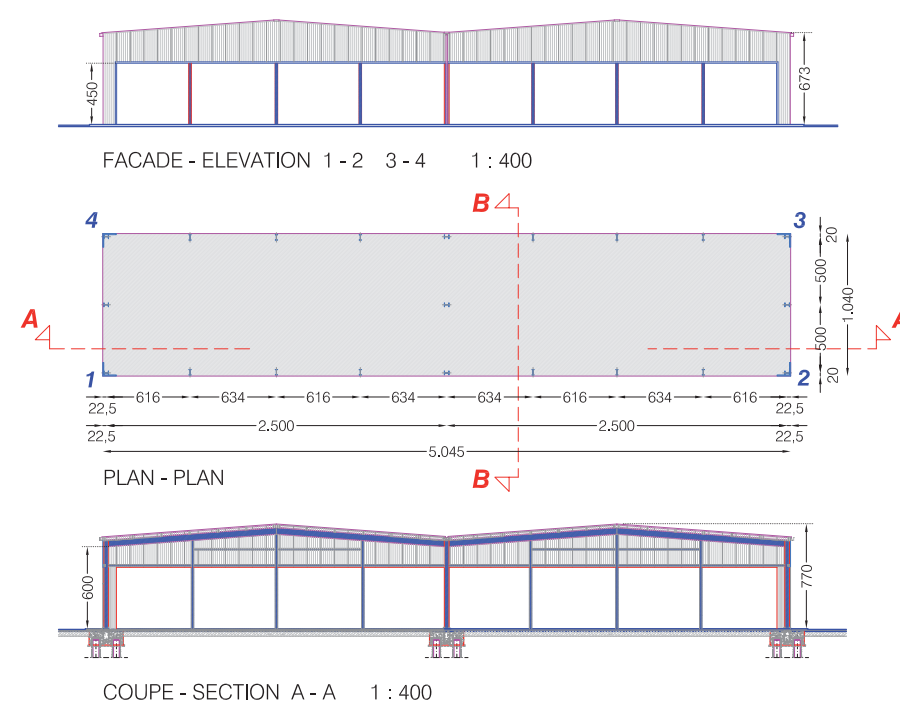
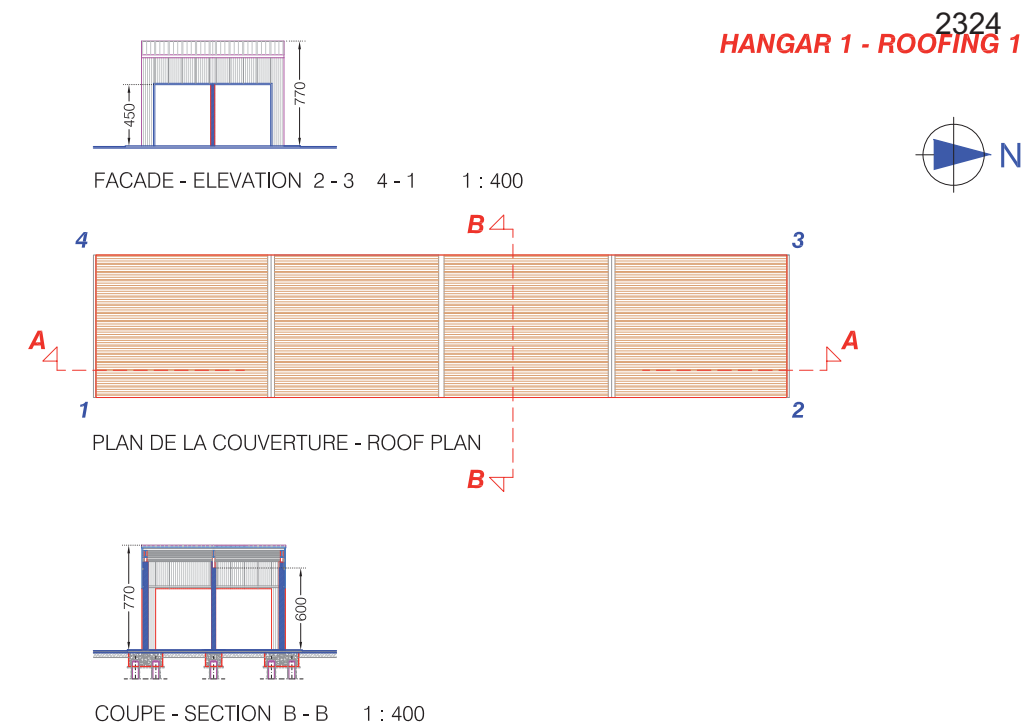
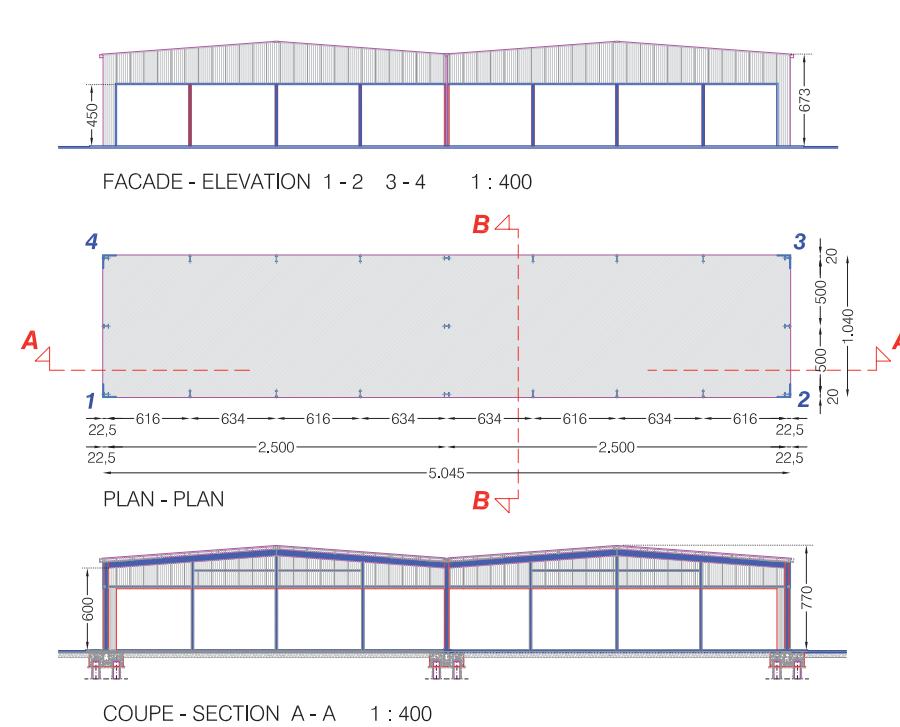
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DRAWING 08a

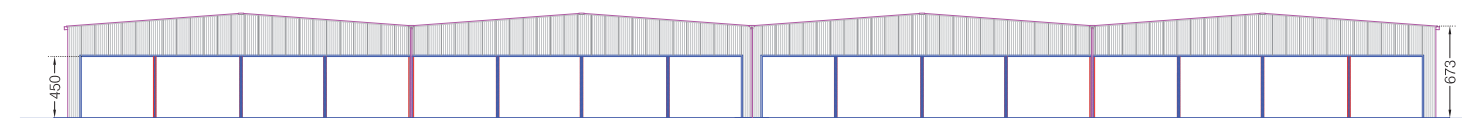
CDA

SECTION-ELEVATION

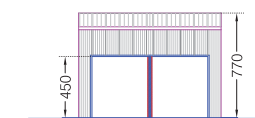
36/W1
a 1



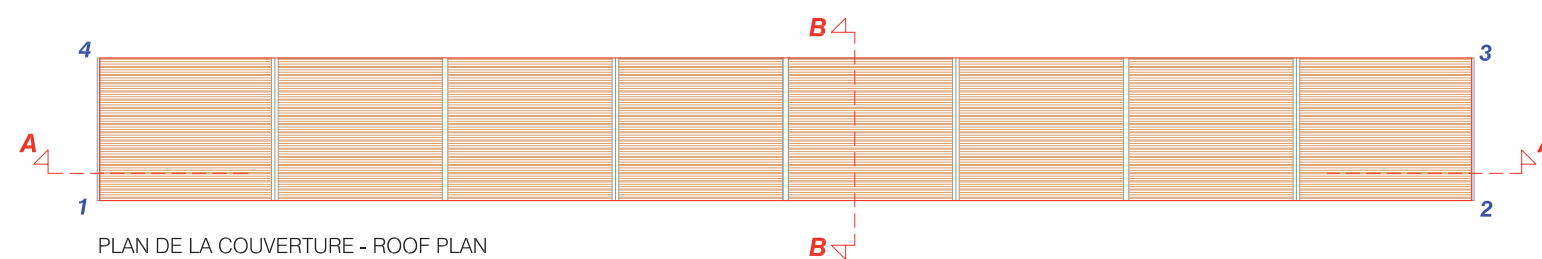




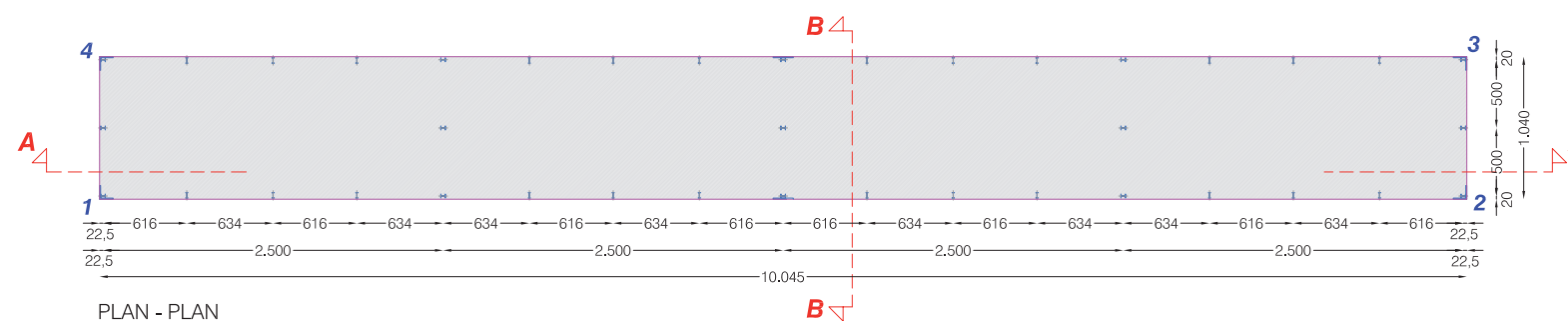
FACADE - ELEVATION 1 - 2 3 - 4 1 : 400



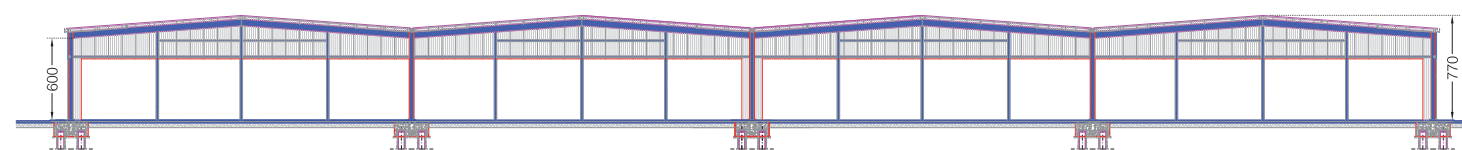
FACADE - ELEVATION 2-3 1-4 1 : 400



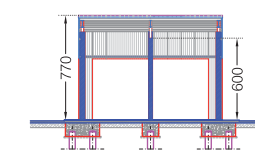
PLAN DE LA COUVERTURE - ROOF PLAN



PLAN - PLAN



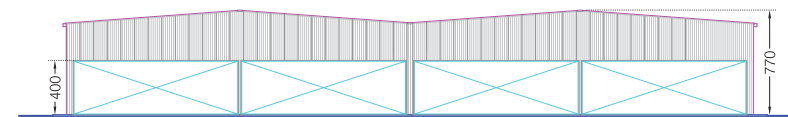
COUPE - SECTION A - A 1 : 400



COUPE - SECTION B - B 1 : 400

DESSIN DRAWING	10	CDA
PLAN - COUPES - FACADES PLAN - SECTIONS - ELEVATIONS	36/W1 b 1	

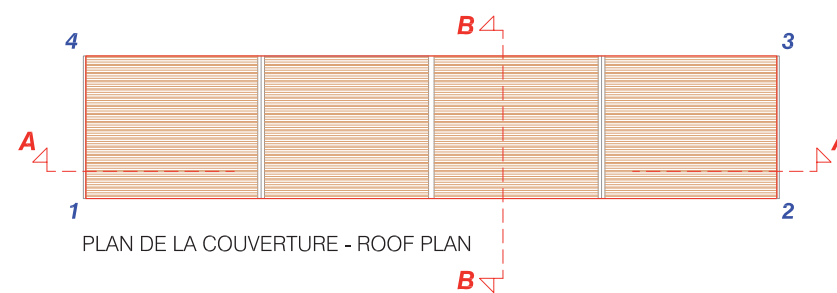




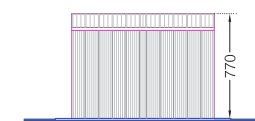
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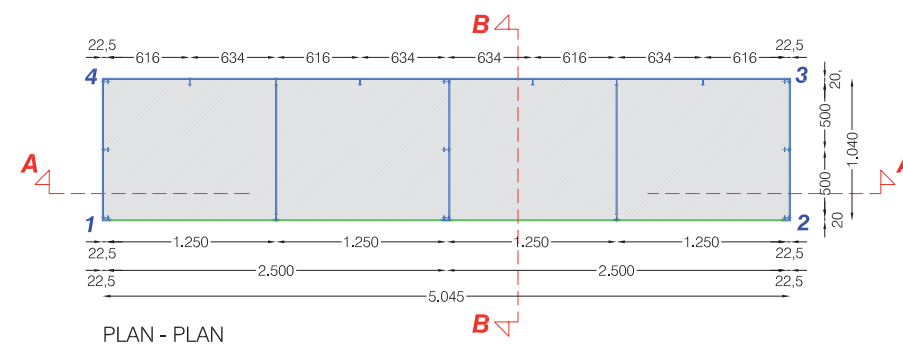
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PLAN DE LA COUVERTURE - ROOF PLAN



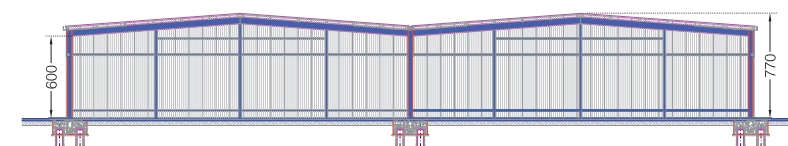
FACADE - ELEVATION 2 - 3 1 - 4 1 : 400



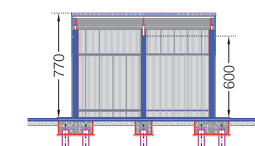
PLAN - PLAN



- porte avec isolament thermique fourni du partenair
- non-conductor door provide from the partner



COUPE - SECTION A - A 1 : 400



COUPE - SECTION B - B 1 : 400

DESSIN
DRAWING

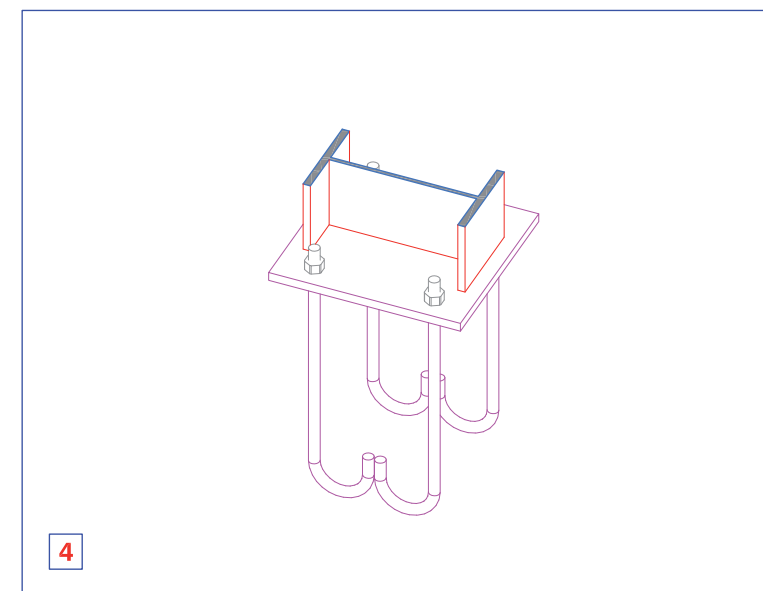
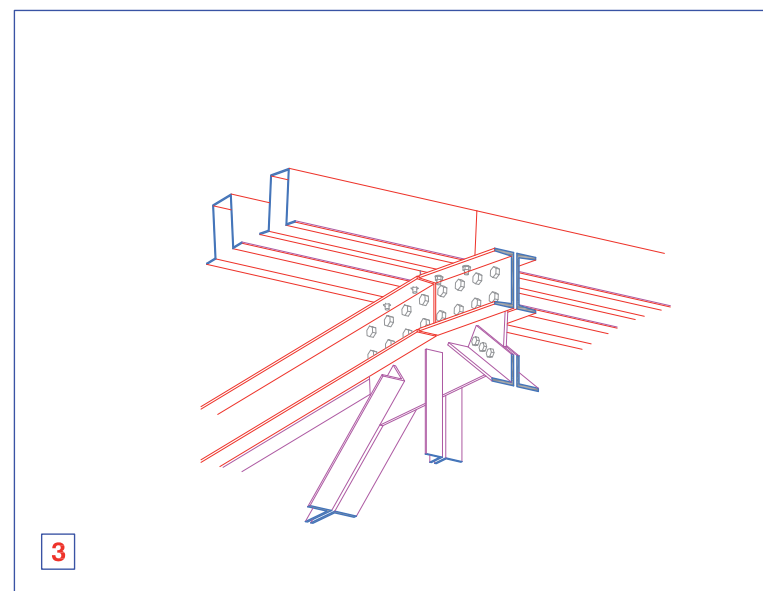
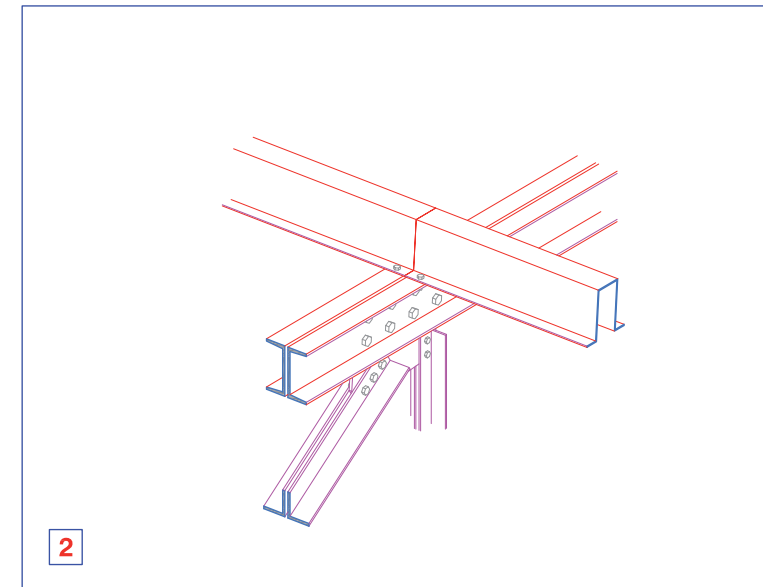
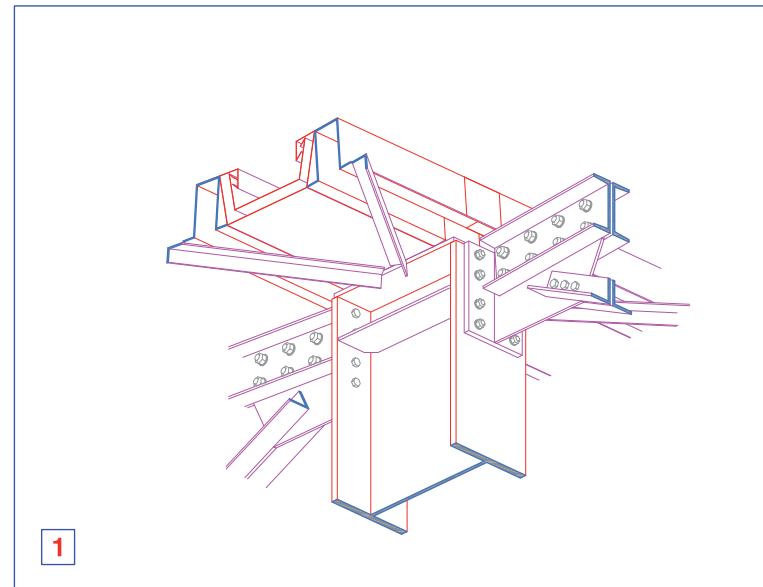
11

CDA

PLAN - COUPES - FACADES
PLAN - SECTIONS - ELEVATIONS

36/W1
c 1

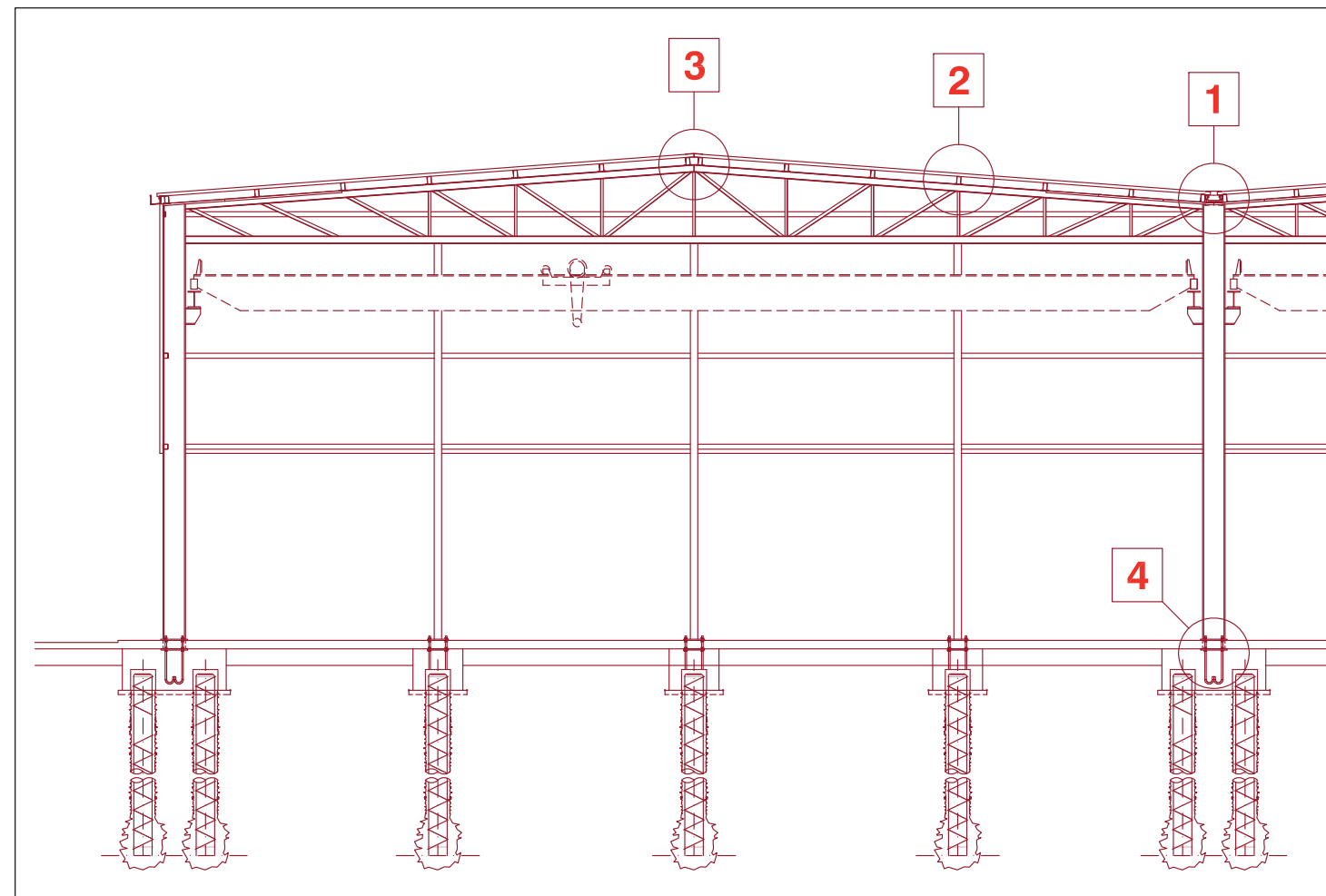




**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

A1

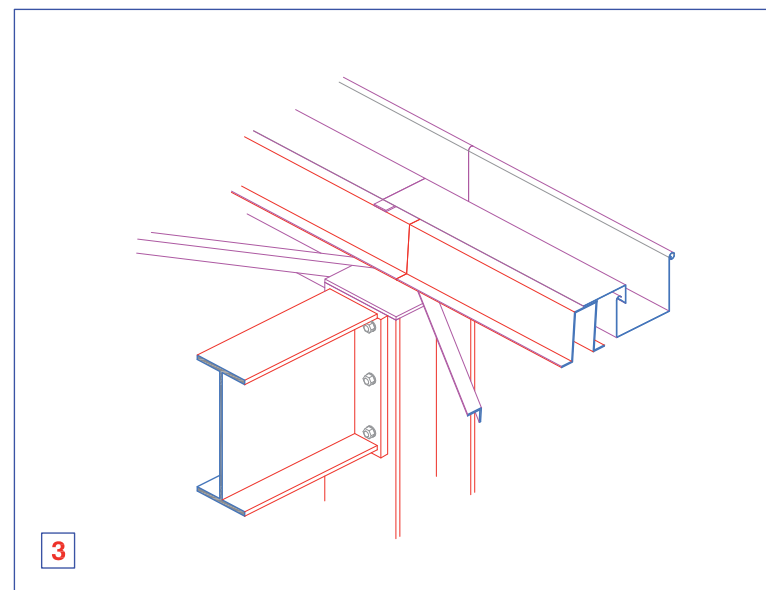
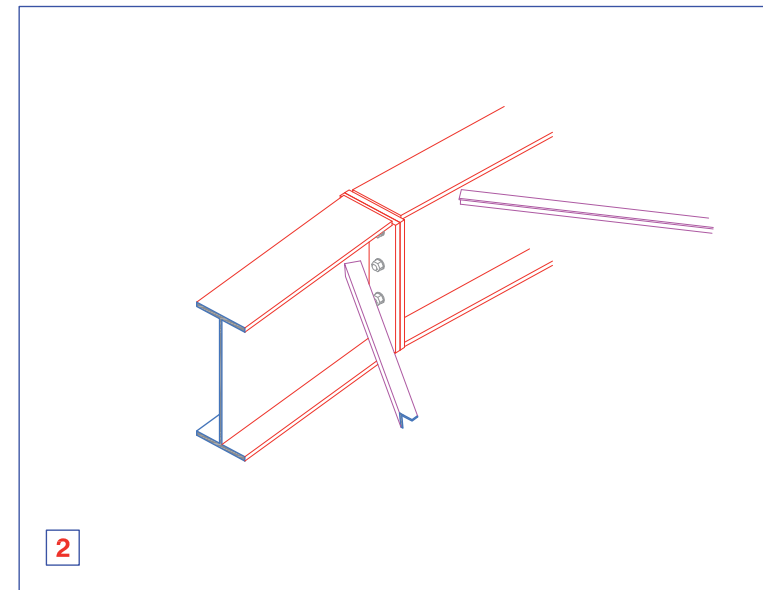
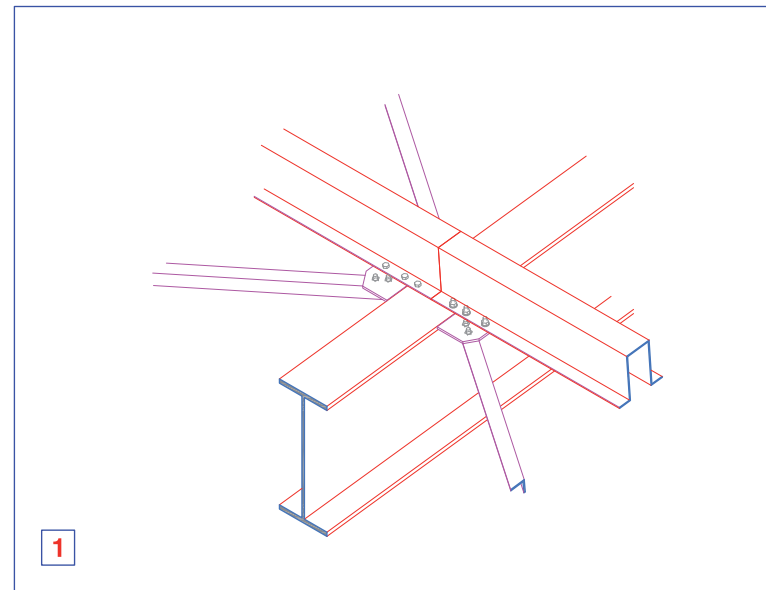
CDA



DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

A

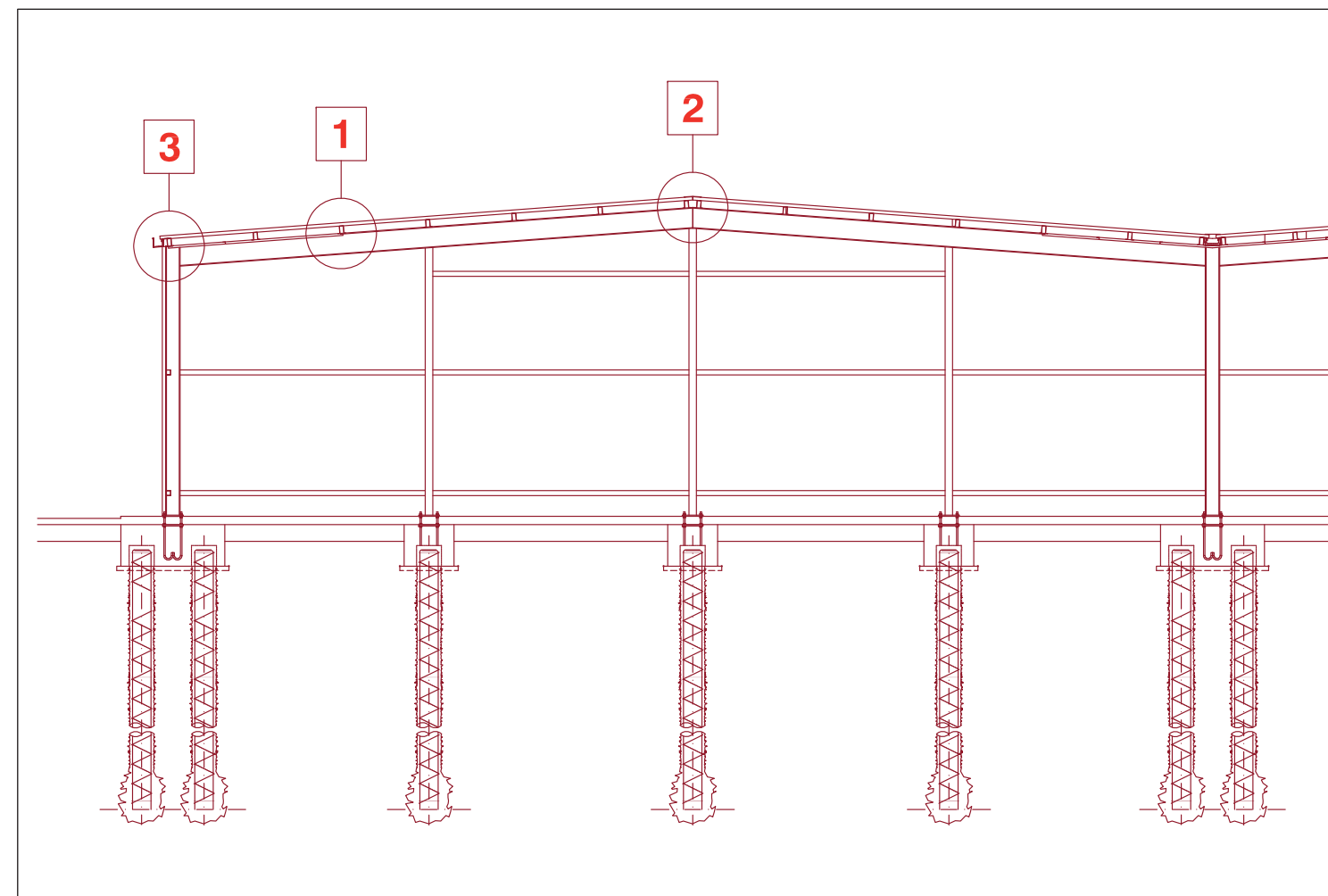
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

B1

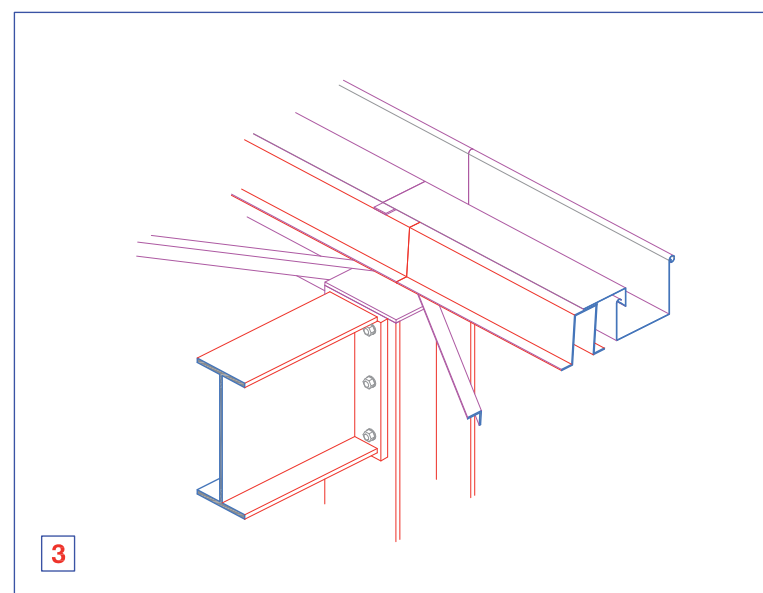
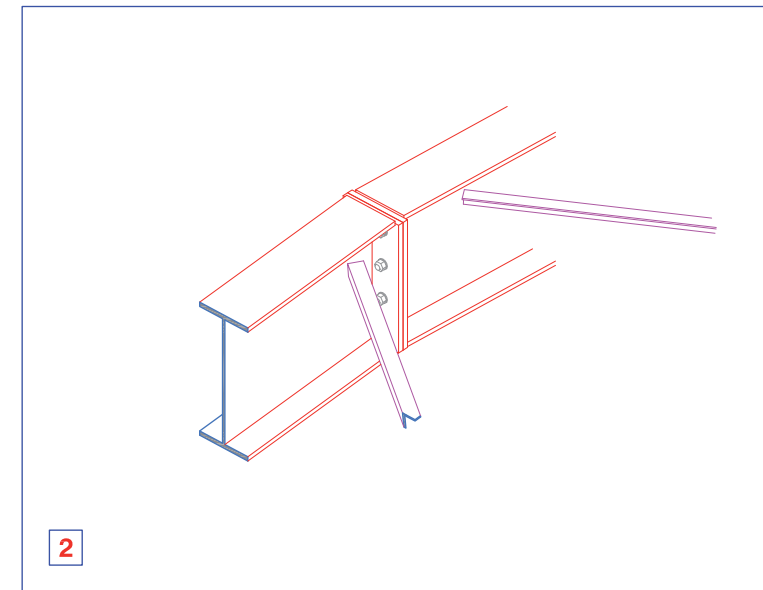
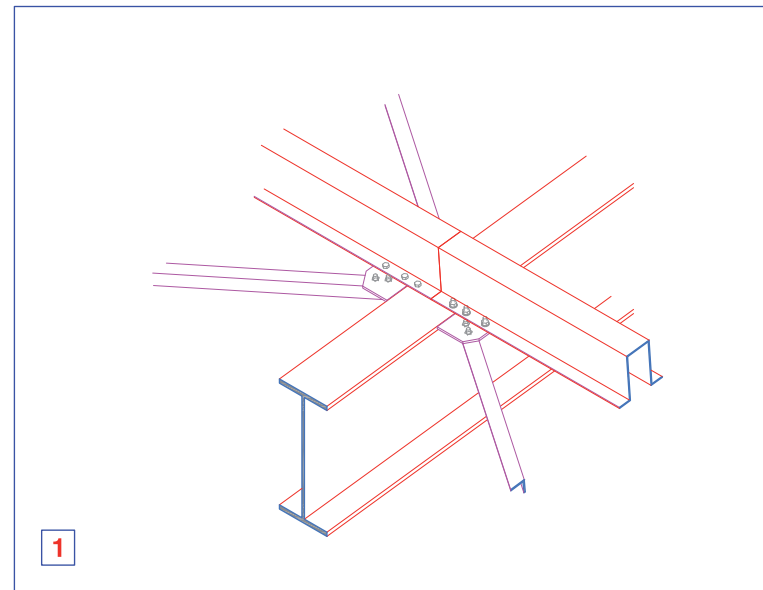
CDA



DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

B

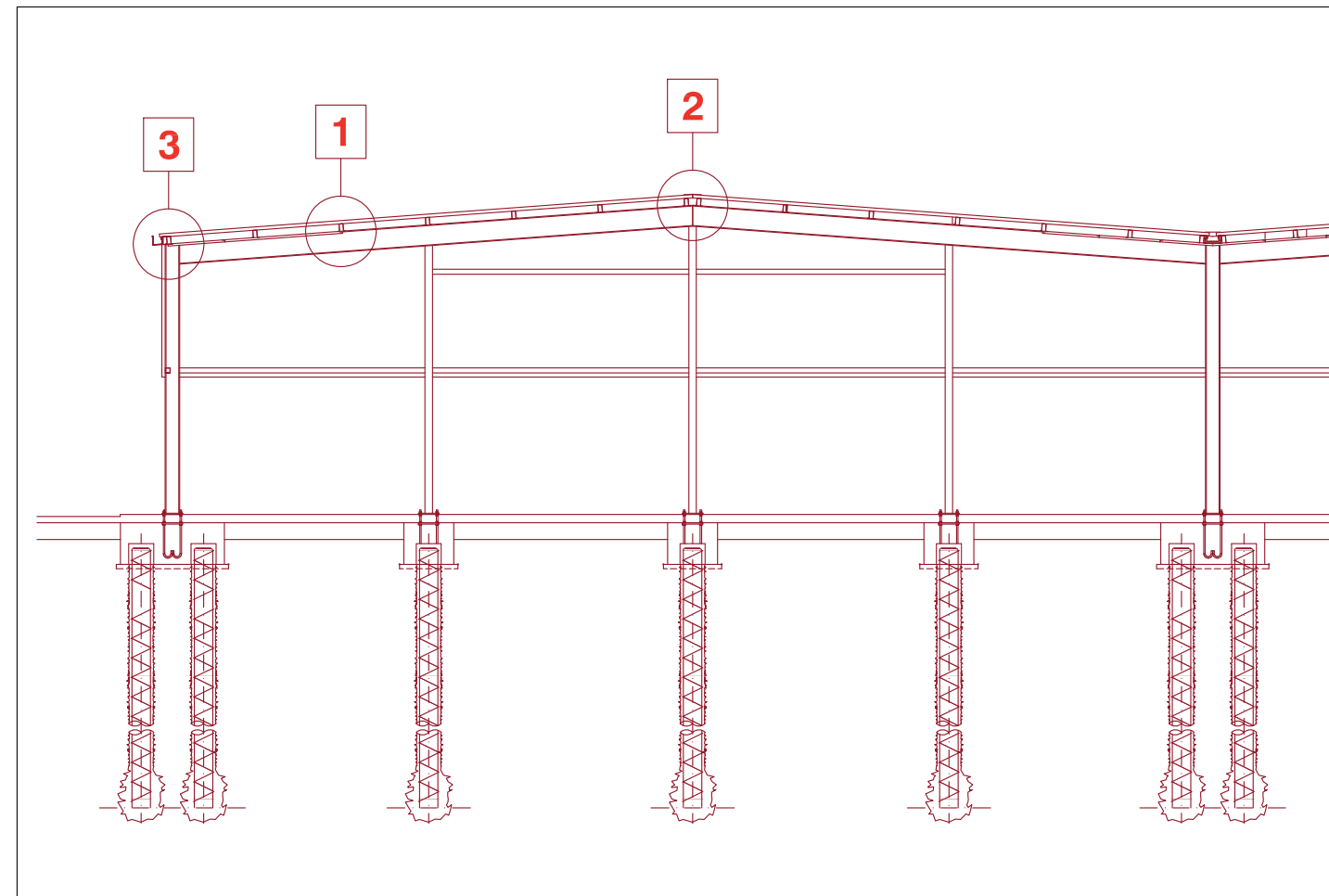
CDA



**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

C1

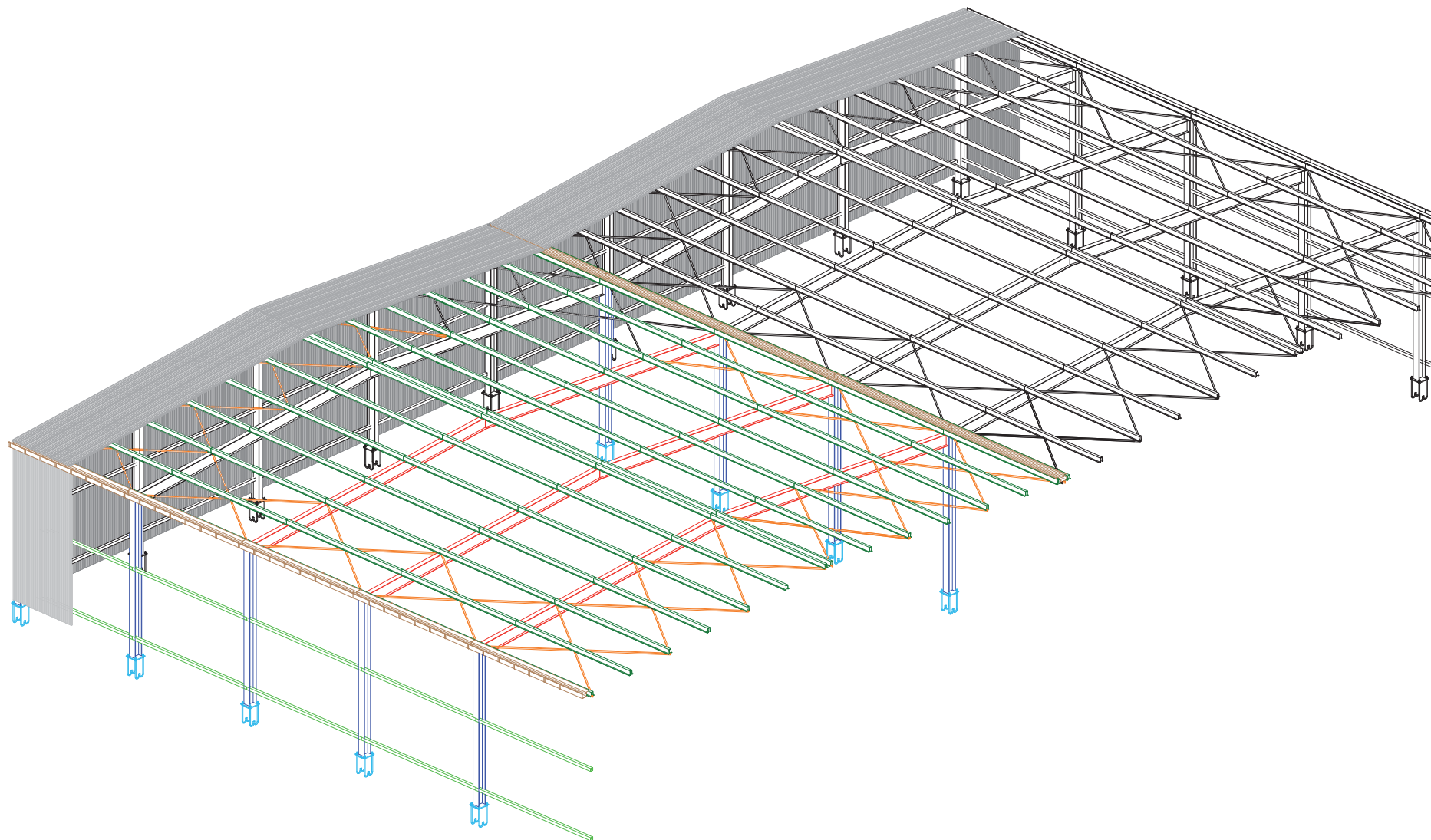
CDA



**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

C

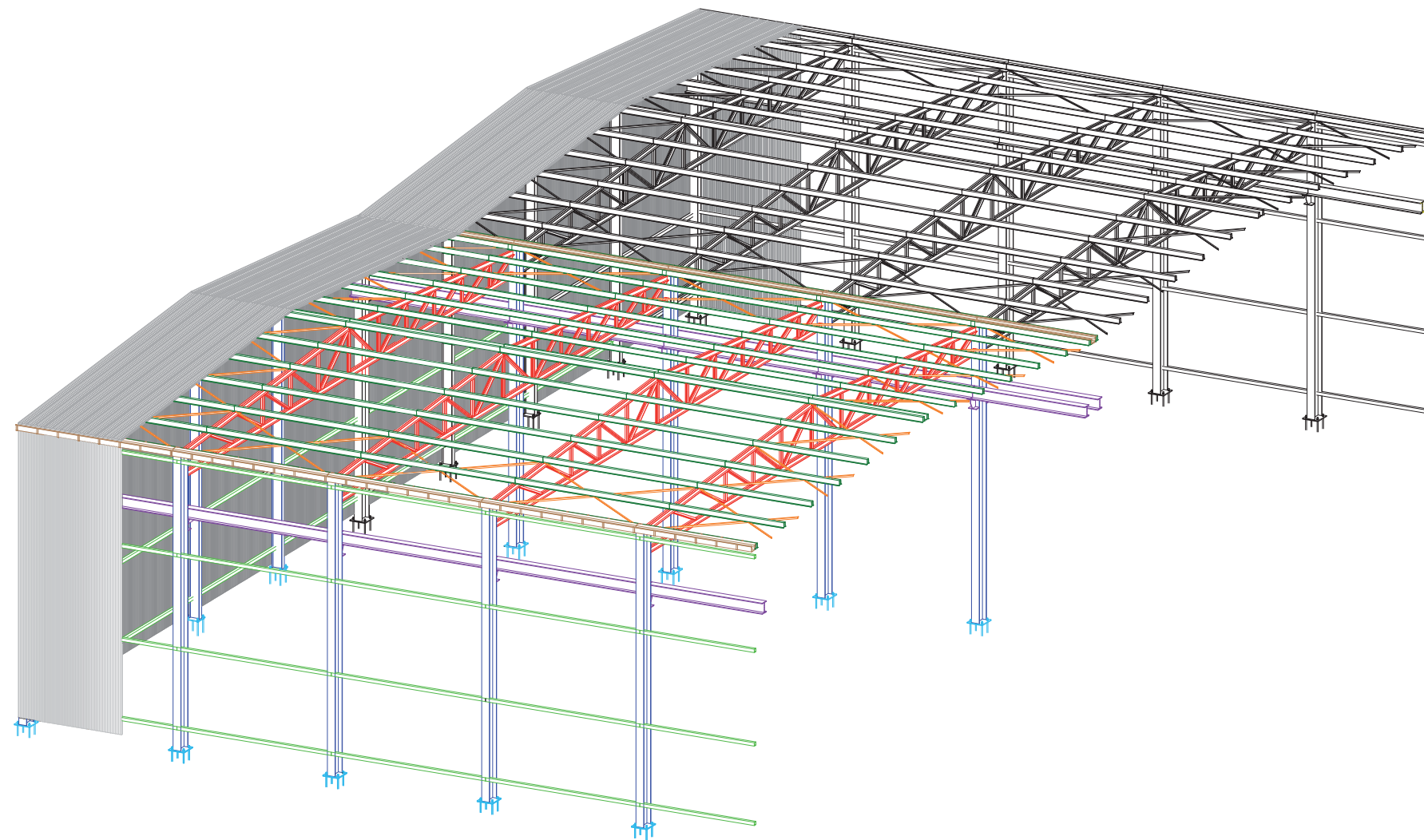
CDA



DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

D

CDA

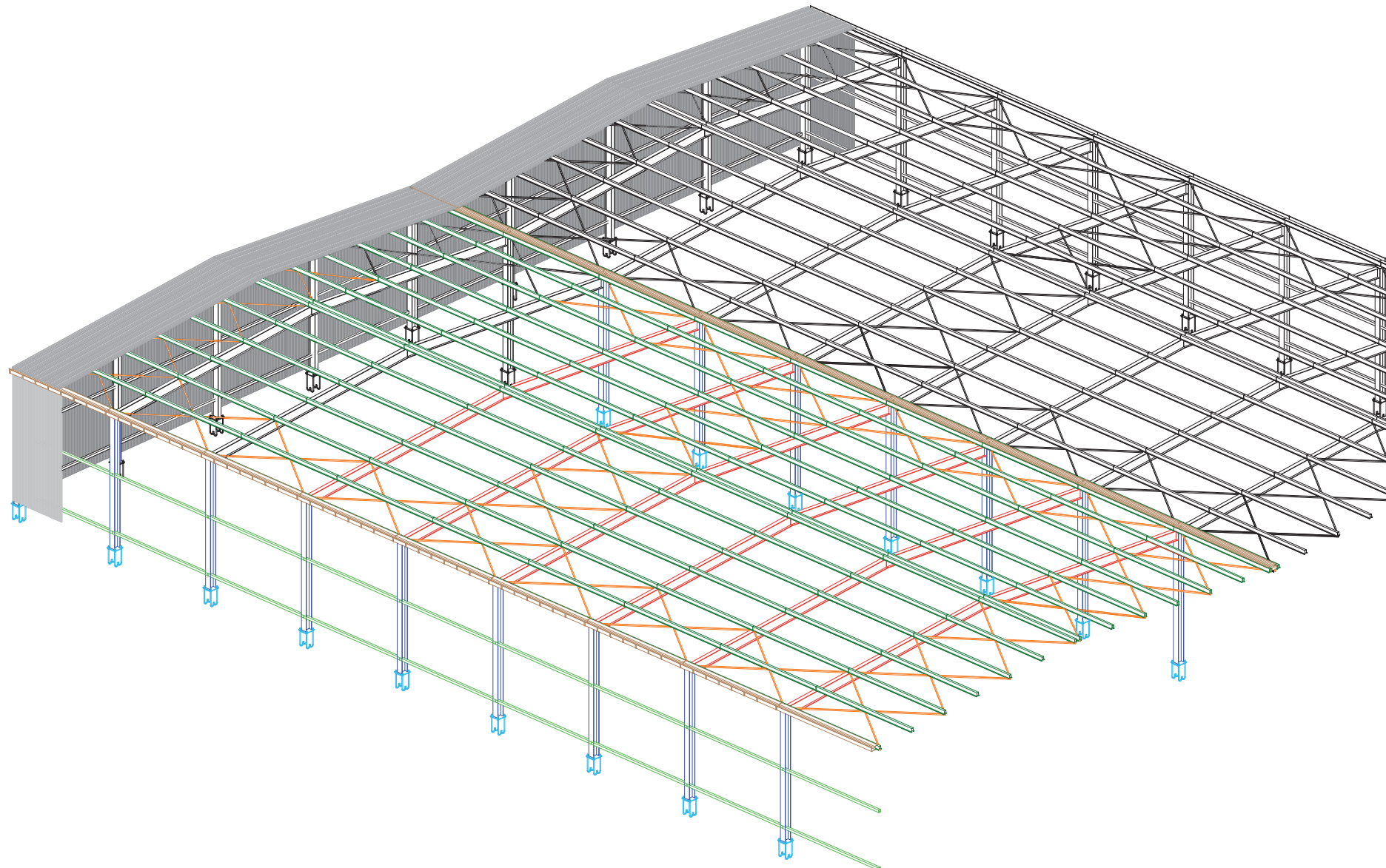


DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

E

CDA





**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

F

CDA

ESTIMATION WORKING FOR CIVIL WORKS FACTORY BUILDINGS

TPOLOGY A

Factory building a1

SUMMARY CHART AREAS AND COSTS

FACTORY CODE CDA W01

LOT AREA m ²	COVERED AREA m ²	PARKING, ROAD AND YARD AREA m ²	PERMEABLE AREA m ²
33.150,00	10.491,76	17.802,00	4.857,00

COST OF FACTORY BUILDINGS €	COST OF OPEN AREA €	TOTAL COST €
125.858.795,40	1.464.261,75	154.805.406,77

TABLEAU RÉCAPITULATIF SURFACES ET COÛTS

CODE DE LA MAISON CDA W01

SURFACE LOTTISSEMENT m ²	SURFACE COUVERTE m ²	SURFACE PARKINGS, ROUTES ET PLACES m ²	SURFACE PERMEABLES m ²
33.150,00	10.491,76	17.802,00	4.857,00

COÛT USINES €	COÛT ZONE DÉCOUVERTE €	COÛT TOTAL €
125.858.795,40	1.464.261,75	154.805.406,77

DOORS								
24	09.01.04a	Wooden inner door, etc	mq.	80,00	100,00	8.000,00		
25	12.01.05	Book door, etc	mq.	36,00	350,00	12.600,00		
26	12.01.06	Impactable doors, etc	mq.	0,00	200,00	0,00		
27	12.01.07	Sectional doors, etc	mq.	0,00	180,00	0,00		
28	12.01.08	Small entrance doors, etc	cad.	5,00	560,00	2.800,00		
29	12.01.09	External doorframes and glass doors	mq.	40,00	300,00	12.000,00		
				CHAPTER TOTAL		35.400,00		35.400,00 1,52
STRUTTURA METALLICA								
30	12.01.11		kg.	23.265,00	3,00	69.795,00		
				CHAPTER TOTAL		1.126.675,54		0,00 0,00
MISCELLANEOUS								
43	12.01.10	Iron stairs, etc	cad.	1,00	10.000,00	10.000,00		
				CHAPTER TOTAL		10.000,00		10.000,00 0,43
MASONRY ASSISTANCE								
44	13.01.15	Assistance for prefabricated structure, etc	cad.	96,00	200,00	19.200,00		
				CHAPTER TOTAL		19.200,00		19.200,00 0,82
				TOTAL WORKS				2.335.850,00 100

[illegible]

N.	ART. CODE	BRIEF DESCRIPTION	UNIT	QUANTITY	PRICE/UNIT	AMOUNT	CHAPTER	%
EXCAVATION								
1	02.01.01a	Compulsory excavation, etc	mc.	9.256,00	6,00	55.536,00		
1	02.01.01a	Compulsory excavation, etc	mc.	865,00	11,44	9.895,60		
2	02.02.01a	Reburial, etc	mc.	430,00	6,14	2.640,20		
3	02.02.03b	Supply, spreading, rolling, etc	mc.	5.530,00	18,59	102.802,70		
		CHAPTER TOTAL				170.874,50	170.874,50	11,35
CONCRETE - STEEL - FORMWORK								
4	03.01.09a	High-density inert matter concrete, etc	mc.	120,00	75,07	9.008,40		
5	03.01.10c	Concrete for foundations, etc	mc.	432,00	94,36	40.763,52		
6	12.01.01	Anti-termite treatment	kg.	60,00	5,00	300,00		
7	03.04.01b	Feb44k steel	kg.	46.225,00	1,08	49.923,00		
8	3.04.02	Electrically melded net	kg.	95.870,00	1,32	126.548,40		
9	03.01.11a	Wooden formwork , etc	mq.	1.730,00	21,69	37.523,70		
		CHAPTER TOTAL				264.067,02	264.067,02	17,54
FLOORS AND LININGS								
10	12.01.04a	Industrial flooring	mq.	18.435,00	28,40	523.554,00		
11	12.01.04b	Anti-dust treatment, etc	mq.	18.435,00	3,46	63.785,10		
		CHAPTER TOTAL				587.339,10	587.339,10	39,00
GATES								
12	12.01.11	Iron sliding gates, etc automation included	kg.	2.935,24	2,00	5.870,48		
		CHAPTER TOTAL				5.870,48	5.870,48	0,39
GREEN AREAS								
13	14.01.01	Spreading and modelling of cultivation land	mc.	16.585,00	26,25	435.356,25		
14	14.01.02	Mechanical plowing, etc	mq.	16.585,00	0,315	5.224,28		
15	14.01.03	Mechanical spading, etc	mq.	16.585,00	0,222	3.681,87		
16	14.01.04	Plants distribution and settling, etc	cad.	70	100,00	7.000,00		
17	14.01.05	Lawn setting, etc (seeds included)	mq.	7.500,00	3,00	22.500,00		
18	14.01.06	Plants' manuring, etc	cad.	70	0,60	42,00		
19	14.01.07	Lawn manuring, etc	mq.	7.500,00	0,52	3.900,00		
		CHAPTER TOTAL				477.704,40	477.704,40	31,72
		TOTAL WORKS					1.505.855,50	100

N.	CODE ART.	DESCRIPTION SYNTETIQUE	U.M	Q.TE'	PR. UN.	MONTANT	CHAPITRE	%
EXCAVATIONS								
1	02.01.01a	Excavations à section obligée, etc.	mc.	9.256,00	6,00	55.536,00		
1	02.01.01a	Excavations à section obligée, etc.	mc.	865,00	11,44	9.895,60		
2	02.02.01a	Remblais, etc.	mc.	430,00	6,14	2.640,20		
3	02.02.03b	Fourniture, étalement et cylindrage, etc.	mc.	5.530,00	18,59	102.802,70		
		TOTAL CHAPITRE				170.874,50	170.874,50	11,45
BETON-ACIER-COFRAGES								
4	03.01.09a	Béton pour lits, etc.	mc.	120,00	75,07	9.008,40		
5	03.01.10c	Béton en fondations, etc.	mc.	432,00	94,36	40.763,52		
6	12.01.01	Additif antitermites	kg.	60,00	5,00	300,00		
7	03.04.01b	Acier Feb44k	kg.	46.225,00	1,08	49.923,00		
8	3.04.02	Réseau électrosoudé, etc.	kg.	95.870,00	1,32	126.548,40		
9	03.01.11a	Coffrages en bois, etc.	mq.	1.730,00	21,69	37.523,70		
		TOTAL CHAPITRE				264.067,02	264.067,02	17,69
MAÇONNERIES-PLANCHERS								
10	12.01.04a	Plancher industriel	mq.	18.435,00	28,40	523.554,00		
11	12.01.04b	Traitement antipoussière, etc.	mq.	18.435,00	3,46	63.785,10		
		TOTAL CHAPITRE				587.339,10	587.339,10	39,34
GRILLES								
12	12.01.11	Grilles en fer, etc. y compris automation	kg.	0,00	2,00	0,00		
		TOTAL CHAPITRE				0,00	0,00	0,00
DISPOSITIONS ZONES VERTES								
13	14.01.01	Étalement et modelage terrain cultivable, etc	mc.	16.585,00	26,25	435.356,25		
14	14.01.02	Labourage mécanique, etc.	mq.	16.585,00	0,315	5.224,28		
15	14.01.03	Béchage mécanique, etc.	mq.	16.585,00	0,222	3.681,87		
16	14.01.04	Repiquage de plantes, etc.	cad.	0	100,00	0,00		
17	14.01.05	Formation de pré, etc. y compris graine	mq.	7.500,00	3,00	22.500,00		
18	14.01.06	Fumure plantes, etc.	cad.	0	0,60	0,00		
19	14.01.07	Fumure pré, etc.	mq.	7.500,00	0,52	3.900,00		
		TOTAL CHAPITRE				470.662,40	470.662,40	31,53
		TOTAL TRAVAUX					1.492.943,02	100



Mini-district

FUTURE OF AFRICA

PEDRINI MS03 - GRANITE



ANALYSIS OF PRICES CIVIL WORKS

The prices of this analysis have been deduced from the following price lists:

- Scheme of the national price list of works concerning the Administration of Public Works - Building works - issued by the Higher Council of Public Works - VI edition.
- Bulletin of Chamber of Commerce - Building works - Province of Milan ITALY - Quarter january/march 2006.
- When works were not included in the lists above, prices have been deduced from an analysis based on the average market quotations of Lombardia Region. ITALY

ANALYSE DES PRIX ŒUVRES D'HABITATION

Les prix de cette analyse ont été tirés par les listes des prix suivantes :

- Schéma de la liste des prix nationale des œuvres d'intérêt de l'Administration des « TPE - Œuvres de construction » promulguée par le Conseil Supérieur des TPE - VI édition.
- Bulletin Chambre de Commerce Œuvres de Construction Province de Milan ITALIE - Trimestre janvier/mars 2006.
- Là où les œuvres ne sont pas prévues dans les listes mentionnées ci-dessus, les prix ont été tirés par une analyse effectuée d'après les cours moyens de marché de la Région Lombardie. ITALIE



**ESTIMATION WORKING
CIVIL WORKS
EXTERNAL ARRANGEMENT**

**ESTIMATION DES TRAVAUX
ŒUVRES CIVILES
AMÈNAGEMENT EXTÉRIEUR**



SUMMARY CHART AREAS AND COSTS

FACTORY CODE
CDA S03

LOT AREA m ²	COVERED AREA m ²	PARKING, ROAD AND YARD AREA m ²	PERMEABLE AREA m ²
45.080,00	10.060,12	18.435,00	16.585,00

COST OF FACTORY BUILDINGS €	COST OF OPEN AREA €	TOTAL COST €
2.335.850,00	1.505.855,50	80.146.554,03

TABLEAU RÉCAPITULATIF SURFACES ET COÛTS

CODE DE LA MAISON
CDA S03

SURFACE LOTTISSEMENT m ²	SURFACE COUVERTE m ²	SURFACE PARKINGS, ROUTES ET PLACES m ²	SURFACE PERMEABLES m ²
45.080,00	10.060,12	18.435,00	16.585,00

COÛT USINES €	COÛT ZONE DÉCOUVERTE €	COÛT TOTAL €
2.335.850,00	1.505.855,50	80.146.554,03



TECHNICAL REPORT GENERAL ARRANGEMENT

Company coding S3 42

Production sector of the company Granite

Type of raw material used Granite

Type of finished product

Employees

- Total no. of employees : n. 1.395
- No. employees per shift : n. 465

Town planning data

- lot area : m² 45.080,00
- covered area : m² 10.060,12
- gross area : m² 10.060,12
- road and yard area : m² 16.595,00
- parking area : m² 1.722,00
- permeable area : m² 16.585,00
- distance between buildings : /
- distance from boundaries : min. m. 40,00
- ratio of covered area : 22,31 %
- ratio of permeability : 36,79 %

General construction data

- Number of buildings : 1
- Number of types : 1
- Type of infill : pre-coated sandwich panel
- Type of interior flooring : concrete
- Type of exterior paving : concrete
- Enclosure between lots : prefabricated concrete slabs
- Enclosure from the road : prefabricated concrete - "comb" type

RAPPORT TECHNIQUE DISPOSITION GENERALES

Codification de la société S3 42

Secteur de marchandises de la société Granite

Typologie des matières premières utilisées Granite , marbre , pierre en general.

Typologie de produit fini Plaques de granit - Lavabos

Préposés employés

- Total employés : n. 1.395
- Employés par roulement : n. 465

Données urbanistiques

- surface lotissement : m² 45.080,00
- surface couverte : m² 10.060,12
- surface brut : m² 10.060,12
- surface routes et places : m² 16.595,00
- surface parkings : m² 1.722,00
- surface perméables : m² 16.585,00
- distance entre les immeubles : /
- distance des limites : min. m. 40,00
- rapport de couverture : 20,31 %
- rapport de perméabilité : 36,79 %

Données de construction générales

- Nombre immeubles : 1
- Nombre typologie : 1
- Typologie de tamponnement : pannello sandwich preverniciato
- Typologie de pavage interne : béton
- Typologie de pavane externe : béton
- Clôture entre les lotissements : plaques préfabriquées en cls
- Clôture vers la route : préfabriquée en cls - type à "peigne"



DUAL SLOPE construction

The structure is composed of dual slope trusses and I-beam roofing elements, both of variable length, as well as eaves and valley gutter elements.

The roofing elements are laid side by side or spaced out to enable light to enter from above.

The dual slope trusses are made of pre-stressed reinforced concrete, with variable cross-section and thickness from 10 to 50 cm and slope of 10%.

The type envisaged in the project reaches a maximum length of 25 m.

The I-beam roofing element is made of pre-stressed reinforced concrete and is produced in various heights in relation to the span.

Valley gutter and eaves truss. The valley gutter eaves are unified components in pre-stressed reinforced concrete.

Curtain wall panels. Horizontal type, hooked to the bearing structures or set with mixed portal-framed system. They are 20 cm thick and reach a maximum height of 320 cm. The types differ according to the thermal protection and the construction system. They are made of vibrated reinforced concrete and have insulating material in between to achieve good thermal protection. The joints are male and female. The insulation used is thermal cutting sandwich type. The exterior trims can be smooth formwork, with washed river grit, with washed crushed marble, or on matrix in rubber as regards the identification of the buildings. The horizontal panels are positioned outside the structure and attached to the columns with concealed metal elements. The window arrangement can be continuous strip or with single compartments.

The anchorings are made of special "Halfen" type metal profiles that are incorporated in the casting of the columns of the trusses or of the roofing elements, bolted "L" plates attach the panels to the structure.

Foundations. The prefabricated socket that will house the column is set on reinforced concrete plate about 50 cm thick supported by 4 reinforced concrete poles diameter 60 cm that reach a depth of 25 m. There is also a connecting truss between the perimeter columns with variable thickness depending on the structural layout.

Système constructif à DOUBLE PENTE

La structure se compose de poutres principales à double pentes et d'éléments de couverture à double T, chacun de longueur variable, ainsi que d'éléments gouttière et cornière.

Les éléments de couverture sont posés accostés ou avec des intervalles pour permettre l'éclairage zénithal.

La poutre à double pente est en béton armé précomprimé à section variable avec épaisseur de 10 à 50 cm. et pente de 10% .

La typologie prévue dans le projet atteint la longueur maximum de. 25m.

L'élément de couverture à double T est en béton armé précomprimé et produit en différentes hauteurs en relation à la lumière.

Poutre de cornière et de gouttière. Les gouttières cornières sont des composants unifiés en béton armé précomprimé.

Panneaux de tamponnement. Ils sont du type horizontal accrochés aux structures portants ou appuyés avec un système mixte à portail. Ils ont une épaisseur de 20 cm et une hauteur maximum pouvant atteindre 320 cm. Les typologies se différencient d'après la protection thermique et du système constructif. Ils sont réalisés en béton armé vibré et ont du matériel isolant interposé pour une meilleure protection thermique. Les joints sont mâle ou femelle. La typologie d'isolation utilisée est à sandwich à coupe thermique. Les finitions externes peuvent être à coffrage , avec gravillon de fleuve lavé, avec des morceaux de marbre lavés ou sur empreinte de matrice en ce qui concerne l'identification des édifices. Les panneaux horizontaux sont positionnés à l'extérieur de la structure et fixés aux poutres par des éléments métalliques coulissants. Les fenêtrages peuvent être continues à bande ou à ouverture singulière. Les ancrages sont réalisés avec des profils métalliques spéciaux type "Halfen" incorporés dans la coulée des poutres ou des éléments de couverture, des plaques à "elle" boulonnées fixent les panneaux à la structure.

Les fondations . L'emboîtement préfabriqué qui logera la poutre est appuyé sur une plaque en béton armé d'une épaisseur d'environ 50 cm., celle-ci est soutenue par 4 poteaux en béton armé de 60 cm de diamètre atteignant une profondeur de 25 m. Une poutre de connexion est en outre prévue entre les poutres périmétrales d'une épaisseur variable en fonction de la maille structurale.



PRODUCT PROCESS

Pedrini is a metal and mechanic company which manufactures marble, granite and stone processing machinery. Pedrini supply for Group Mas contemplates some production units for the transformation of the granite blocks into finished elements of different sizes for building and furniture.

A typical production unit contemplates two sections : a) cutting, where there are eight automatic cutting centres and b) finishing line, where there are two automatic finishing lines.

The automatic cutting centre is a machine which carries out the cutting of the blocks into semifinished elements called strips. The strip thickness and height are pre-established by the operator and the strip length is the same of the block. The cutting operation is carried out by means of a set of vertical diamond discs and of a horizontal diamond disc, which work simultaneously and, always simultaneously, the strips are placed on a pallet by an automatic unloader. In order to optimize the cutting times and limit the dead times due to the blocks change, each cutting centre is equipped with two motorized block-carrying trolleys.

The automatic finishing line is a totality of machines which transform the strips into finished elements. The passage from a machine to the following one is made thanks to motorized connecting roller benches

The production cycle is composed of the following main operations:

- loading of the granite blocks on the block-carrying trolleys by means of the gantry crane which serves the blocks yard;
- positioning of the block-carrying trolleys under the automatic cutting centres;
- automatic cutting of the blocks into strips;
- automatic unloading of the strips on pallets;
- automatic loading of the strips on the finishing line;
- strips ends trimming;
- grinding of the strips thickness by means of diamond rollers;
- polishing of the strips upper side by means of abrasives,
- cross-cutting of the strips into finished elements at the required sizes;
- chamfering of the finished elements four upper edges and grinding of two contiguous sides;
- washing, drying and sorting of the finished product
- unloading of the finished product and packing.

The handling of the semifinished and finished elements inside the production units is made by means of forklifts.

PROCESSUS DE PRODUCTION

Pedrini est une entreprise métallurgique et mécanique qui produit des machines pour l'usinage du granit, du marbre et de la pierre en général. La fourniture de Pedrini pour Group Mas prévoit une série d'unités de production pour la transformation des blocs de granit en éléments finis de mesures différentes pour le bâtiment et la décoration.

Une unité de production typique prévoit deux parties : a) la coupe, où il y a huit centres automatiques de coupe et b) le finissage, où on trouve deux lignes automatiques de finissage.

Le centre automatique de coupe est une machine qui exécute la coupe des blocs en éléments semi-finis appelés bandes. L'épaisseur et l'hauteur de la bande sont pré-établies par l'opérateur et la longueur de la bande est la même longueur du bloc. L'opération de coupe est exécutée au moyen d'une série de disques verticaux diamantés et d'un disque horizontal diamanté qui travaillent simultanément et, toujours simultanément, les bandes sont placées par un déchargeur automatique sur une palette, que l'opérateur a positionnée opportunément. Chaque centre de coupe est équipé de deux chariots porte-blocs motorisés pour pouvoir optimiser les temps de coupe et, de cette façon, limiter les temps morts dus au changement des blocs.

La ligne automatique de finissage est un ensemble de machines qui convertissent les bandes en éléments finis. Le passage d'une machine à la machine suivante a lieu grâce aux trains de rouleaux motorisés de connexion.

Le cycle de production est composé des opérations principales suivantes:

- chargement des blocs de granit sur les chariots porte-blocs au moyen de la grue à chevalier qui dessert la cour des blocs ;
- positionnement des chariots porte-blocs sous les centres automatiques de coupe;
- coupe automatique des blocs en bandes ;
- déchargement automatique des bandes sur les palettes ;
- chargement automatique des bandes sur la ligne de finissage ;
- aboutement de la tête et de la queue des bandes ;
- calibrage de l'épaisseur des bandes par des rouleaux diamantés ;
- polissage du côté supérieur des bandes par des abrasifs ;
- aboutement des bandes en éléments finis avec les dimensions demandées ;
- chanfreinage des quatre arêtes supérieures des éléments finis et rectification de deux côtés contigus ;
- nettoyage, séchage et choix du produit fini ;
- déchargement du produit fini et emballage .

La manutention des éléments semi-finis et finis à l'intérieur des unités de production est exécuté par des chariots élévateurs.



TECHNICAL DATA FACTORY BUILDING

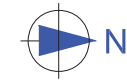
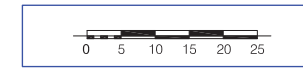
-Type **A/ a1**

- structural layout	: m. 6,00 x m. 25,00
- covered area	: m ² 10.060,12
- gross area	: m ² 10.060,12
- dimensions	: m. 133,00 x m. 75,64
- maximum height	: m. 11,70
- interior height below trusses	: m 8,00
- work space area	: m ² 7.289,00
- interior and exterior storage area	: m ² 6.762,00
- restroom and changing room area	: m ² 374,00
- dining room area	: /
- offices area	: m ² 48,00
- technical zone area	: m ² 221,00
- overhead cranes - internal	: capacity 5 t.
- external	: capacity 35 t.

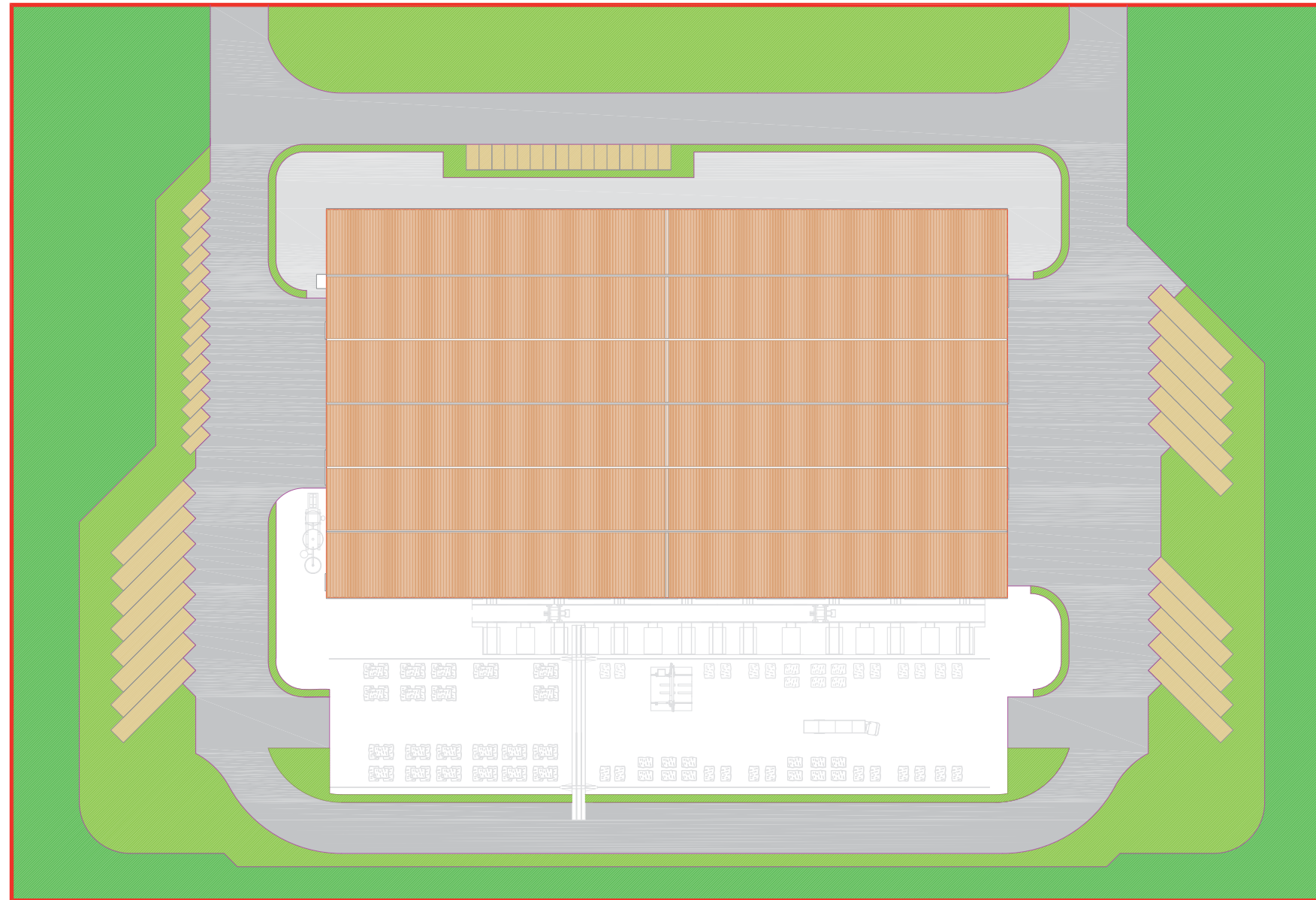
DONNÉES TECHNIQUE USINE

-Typologie **A/a1**

- maille de structure	: m. 6,00 x m. 25,00
- surface couverte	: m ² 10.060,12
- surface brut	: m ² 10.060,12
- dimensions	: m. 133,00 x m. 75,64
- hauteur maximum	: m. 11,70
- hauteur interne sous poutre	: m. 8,00
- surface aire de travail	: m ² 7.289,00
- surface de stockage interne et externe	: m ² 6.762,00
- surface services et vestiaires	: m ² 374,00
- surface refectoire	: /
- surface bureaux	: m ² 48,00
- surface aire technique	: m ² 221,00
- pont roulant - interieur	: portée 5 t.
- exterieur	: portée 35 t.



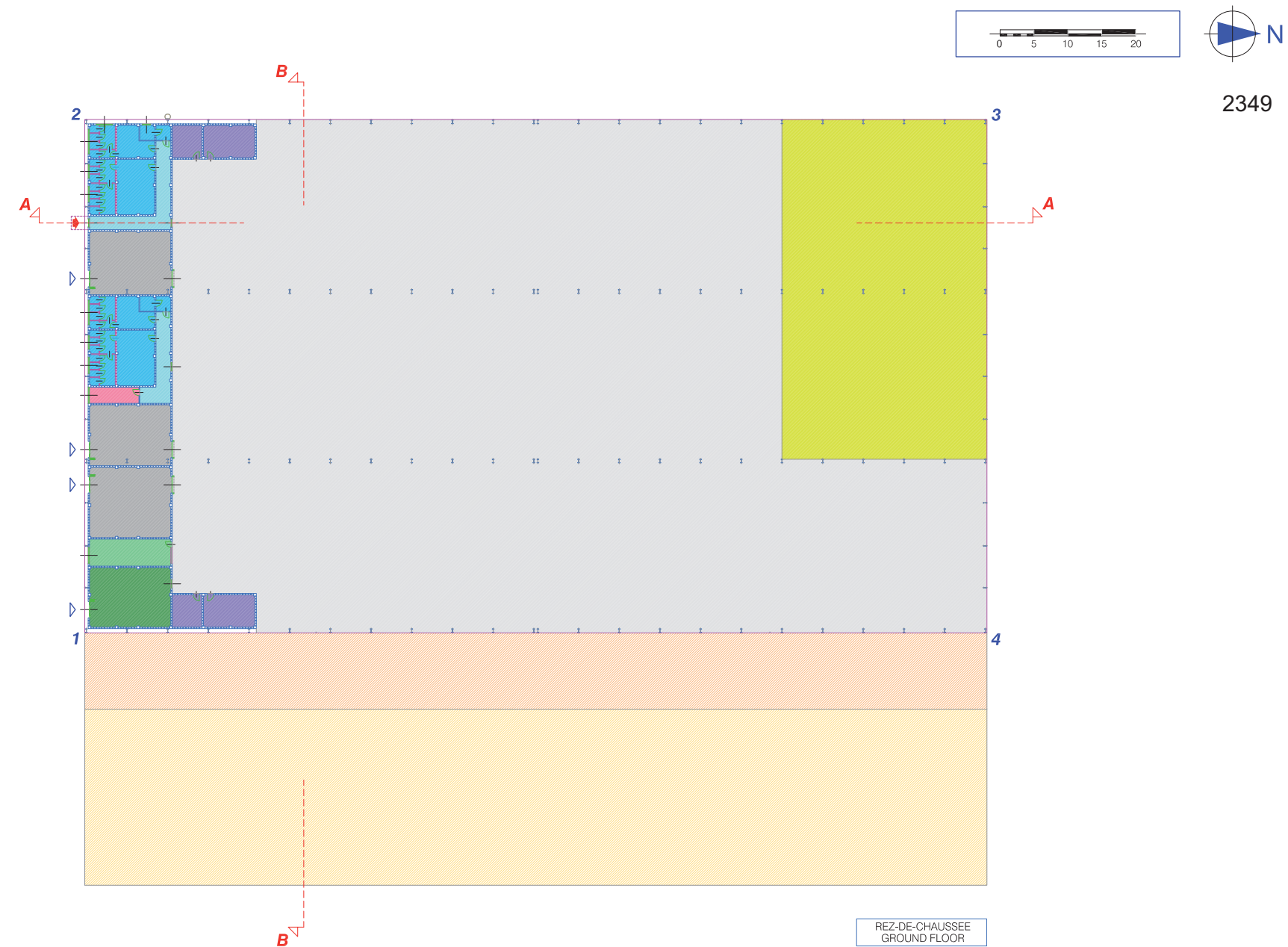
2348



 Délimitation du lot Lot limits	 Réseau routier Road network	 Gazon Grass area	 Parking Car parks
 Batiment industriel Industrial building	 Zone plantée d'arbres Planted area	 Place Square	

DESSIN DRAWING	01	CDA
PLANIMÉTRIE GÉNÉRALE GENERAL PLAN	42/S3 a 1	

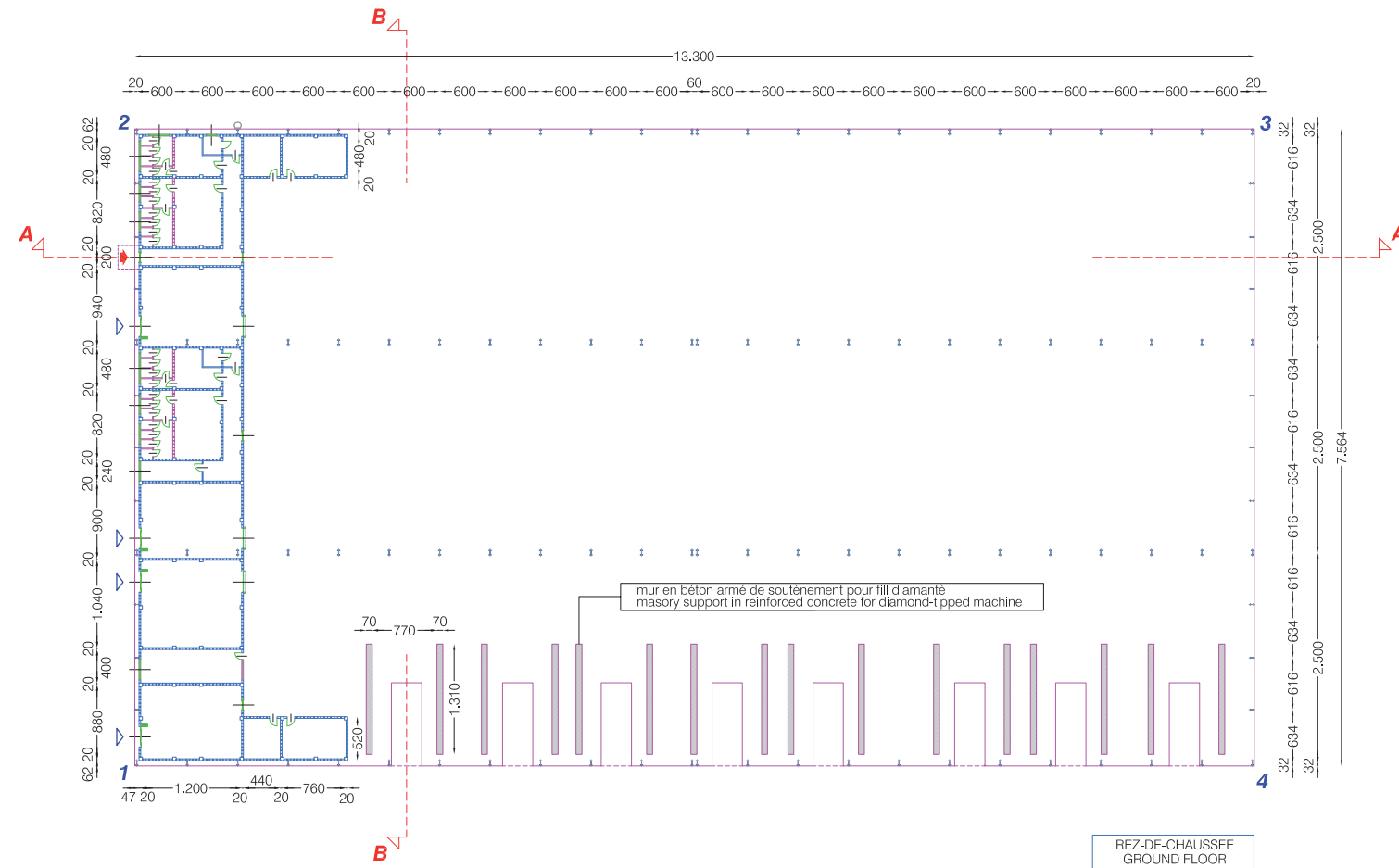




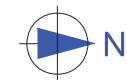
 entrée - dégagement entrance	 bureau office	 magasins storage	 MT/LT cabine de transformation MT/LT transformer station	 zone de travail working area	 stock produit fini stock final product
 zone vestiaire-services locker room-service	 aire du secours d'urgence first aid area	 zone technique technical area	 réserve matériel stock prime material	 zone de triage des blocs block clearing area	

DESSIN DRAWING	02	CDA
ZONES FONCTIONNELLES FUNCTIONAL AREAS	42/S3 a 1	

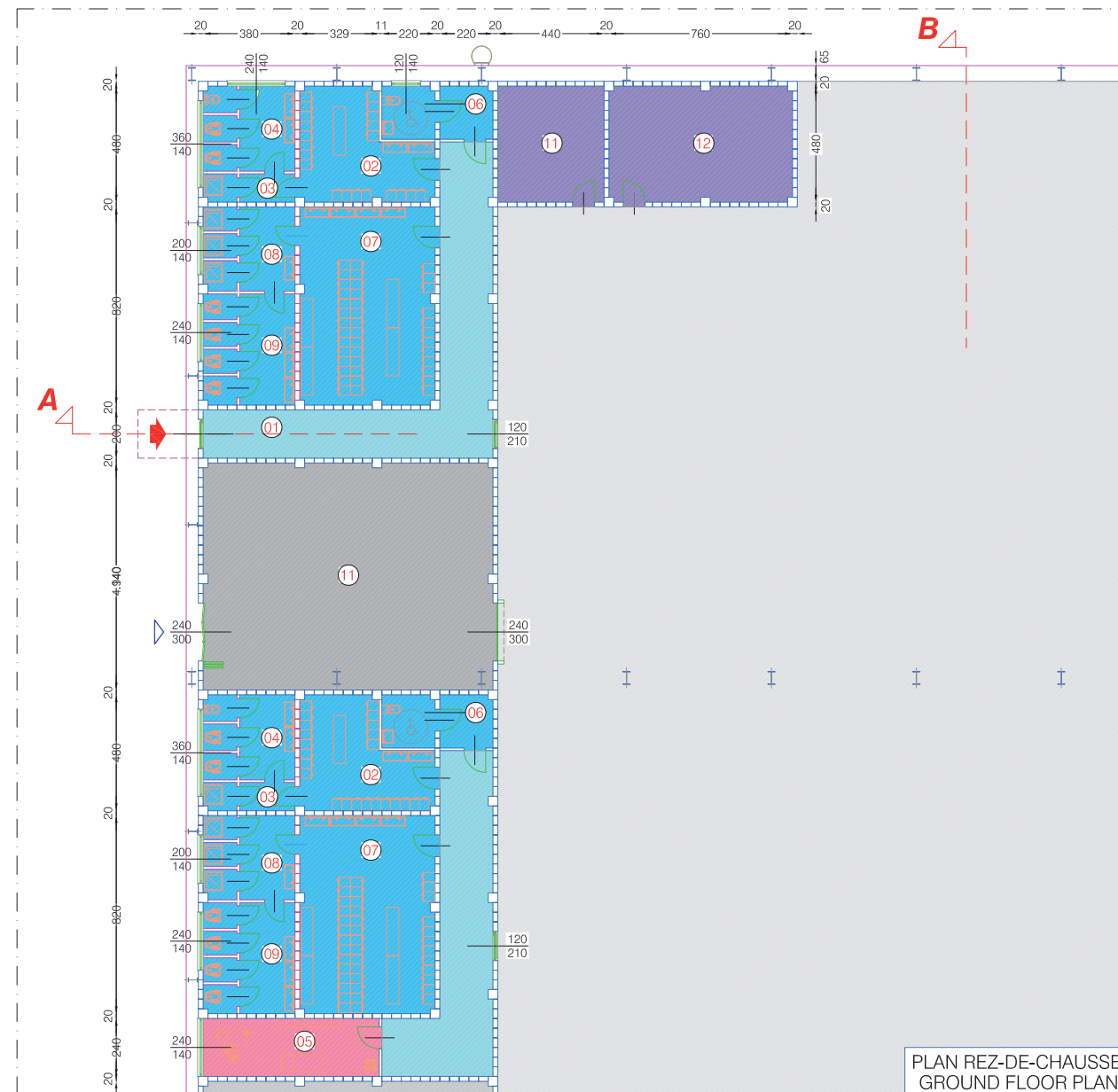




DESSIN DRAWING	03	CDA
PLAN PLAN	42/S3 a 1	



2351



-  entrée ouvriers
entrance workers
 (01) entrée - dégagement
entrance
 (02) vestiaire pour femmes
women locker room

- (03) douches pour femmes
showers for women
 (04) salle de bains pour femmes
women toilet
 (05) secours d'urgence
first aid area

- (06) salle de bains pour handicapé
service for disabled person
 (07) vestiaire pour hommes
men locker room
 (08) douches pour hommes
showers for men

- (09) salle de bains pour hommes
men toilet
 (10) magasins
storage
 (11) chambre des compresseurs
compressors room

- (12) chambre des armoires électriques
electrics cabinets room

DESSIN
DRAWING

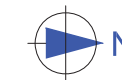
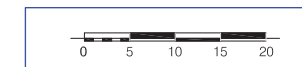
04

CDA

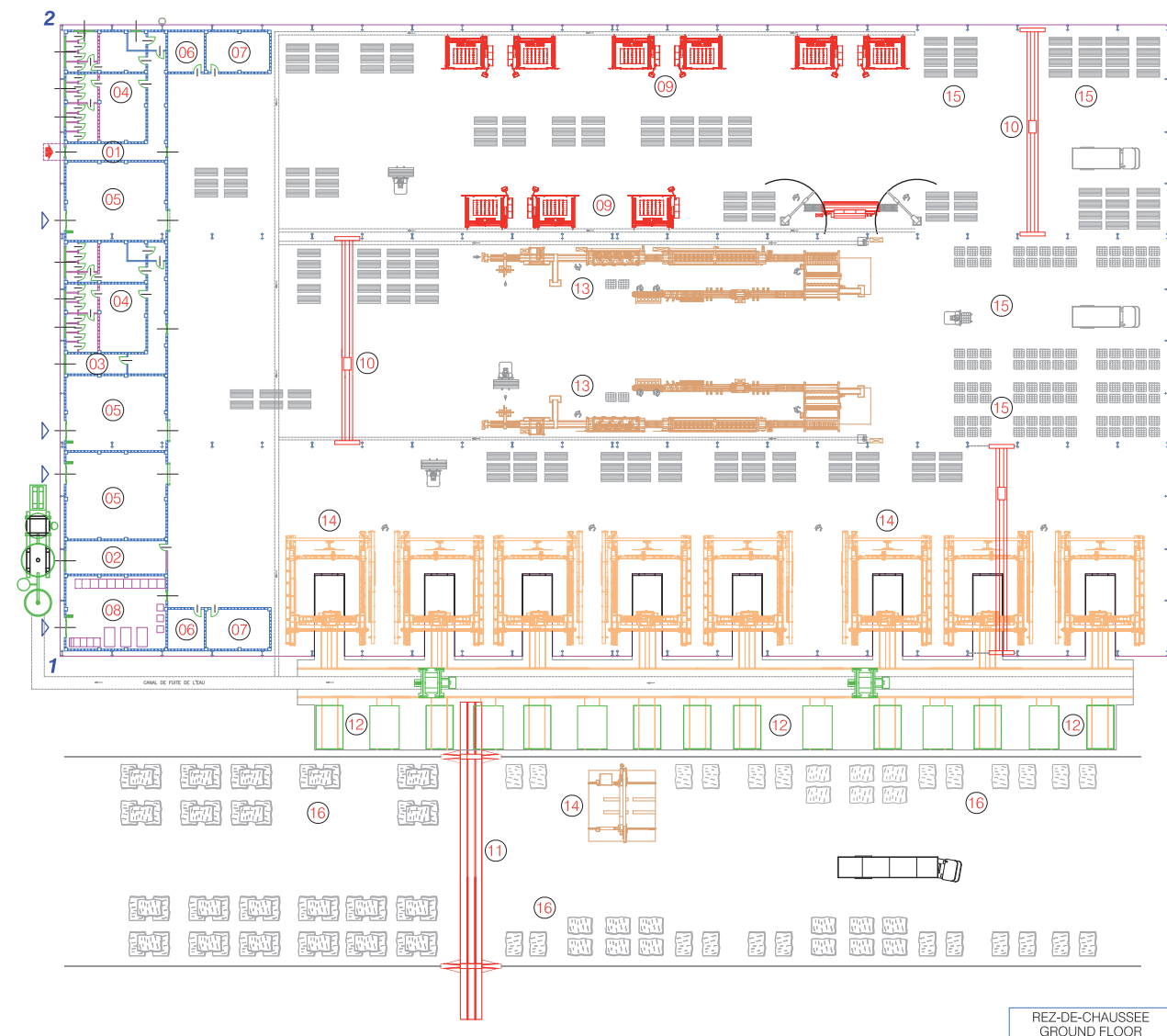
SERVICES GÉNÉRAUX
GENERAL SERVICES

42/S3
a 1





2352



REZ-DE-CHAUSSEE
GROUND FLOOR

- | | | | | | |
|--|---|--|---|--|--|
| 01 entrée ouvriers
entrance | 04 zone vestiaire - services
locker room - service | 07 chambre des armoires électriques
electric cabinets room | 10 grue au pont
grane type "bridge" | 13 ligne automatique de fissage
fixing automatic line | 16 réserve du matériel
stock prime material |
| 02 bureau
office | 05 magasins
storage | 08 MT/LT cabine électrique 3 MW
MT/LT transformere station 3 MW | 11 grue a chevalet 35t
grane type "bridge" 35t | 14 fil diamanté
son diamond-tipped | entrée ouvriers
entrance workers |
| 03 secours d'urgence
first aid area | 06 chambre des compresseurs
compressors room | 09 machine pour border, faconner, polissage | 12 zone triage blocques
block clearing area | 15 stock produit fini
stock final product | |

DESSIN
DRAWING

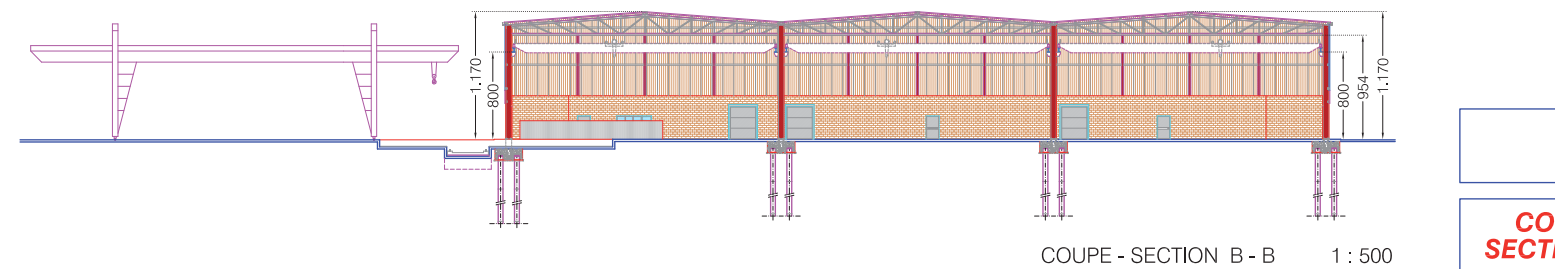
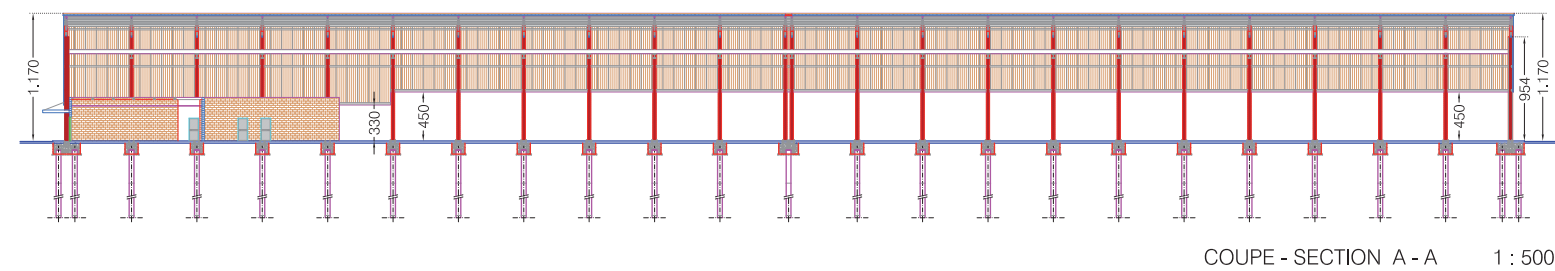
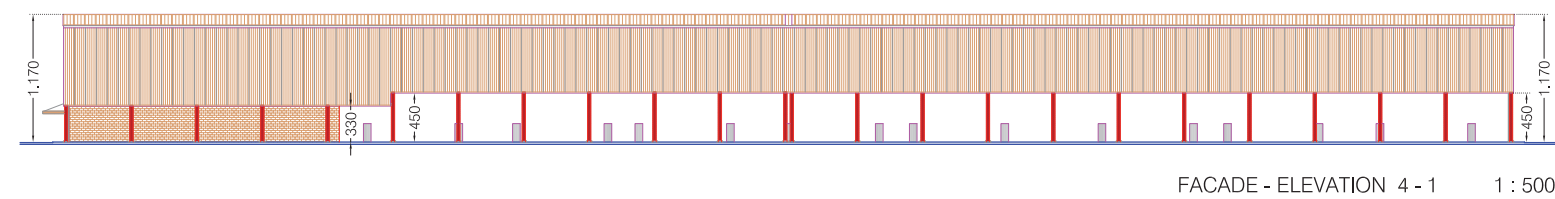
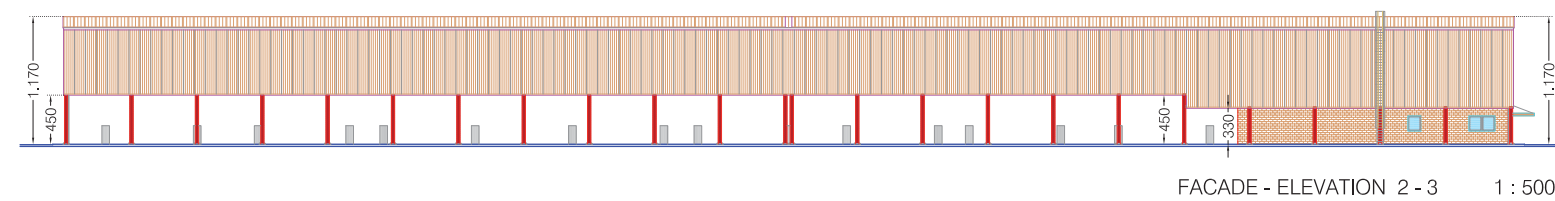
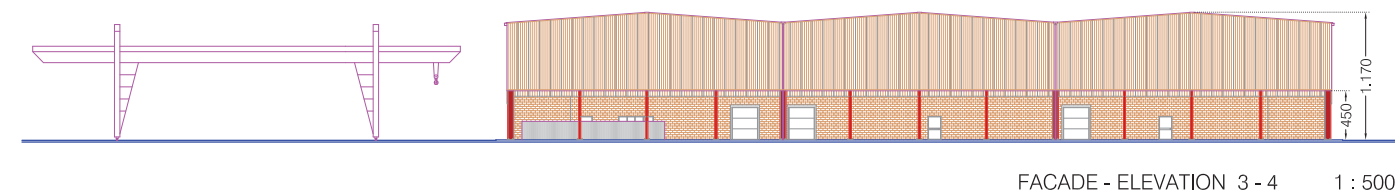
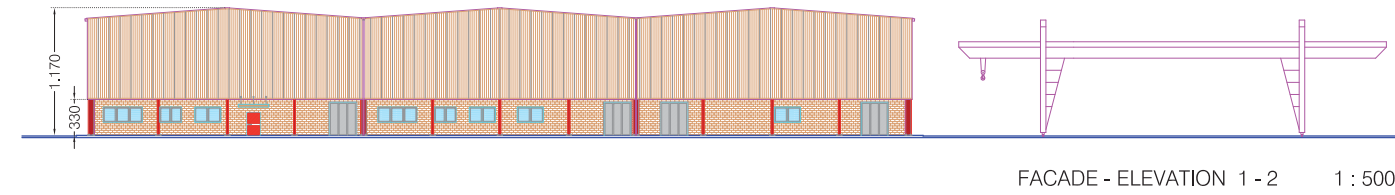
05

CDA

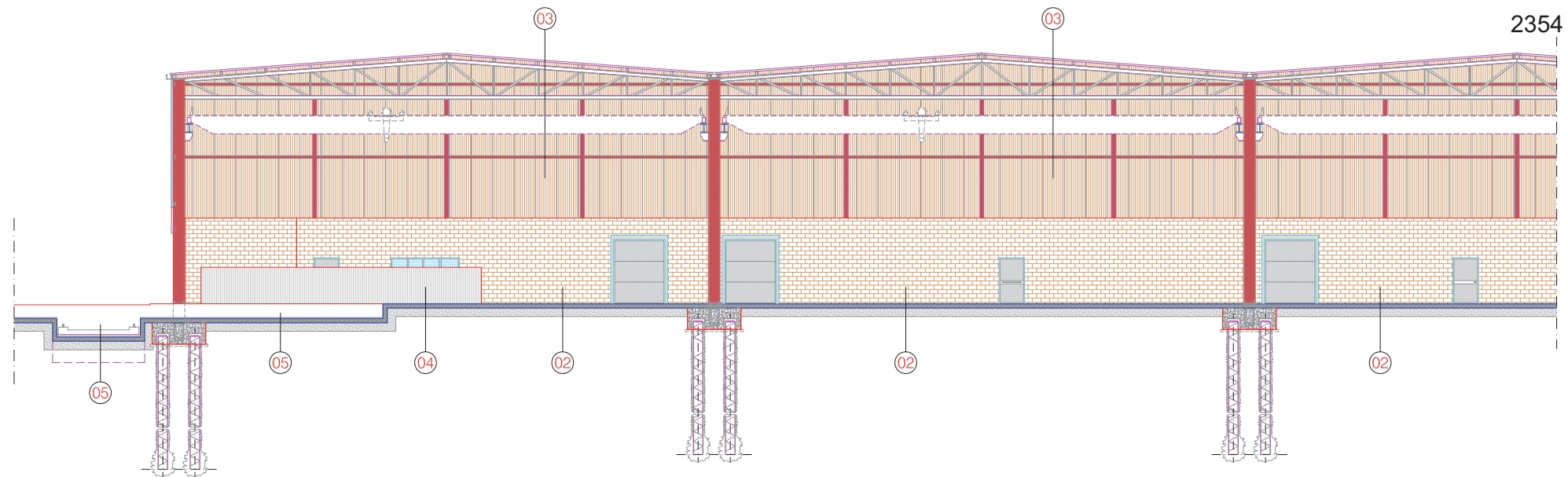
PLAN PRODUCTION
PRODUCTION LAY-OUT

42/S3
a 1

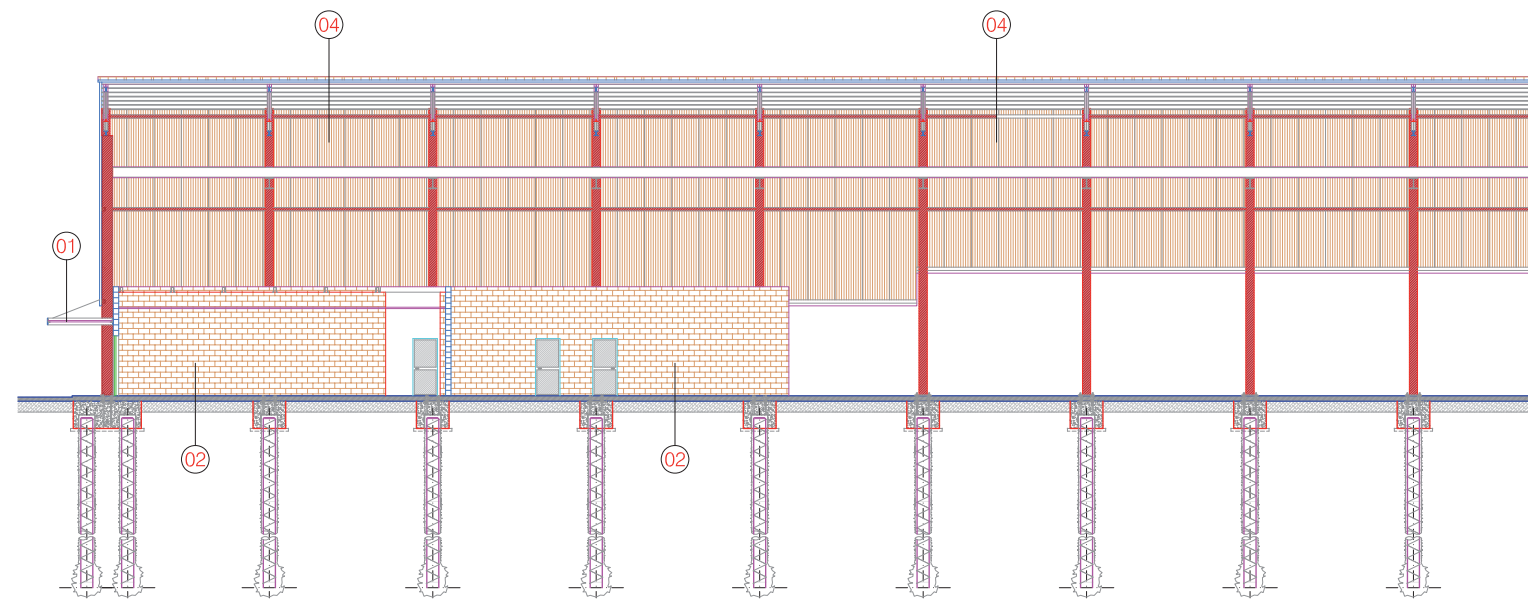




DESSIN DRAWING 06	CDA
COUPES-FACADES SECTIONS-ELEVATIONS	42/S3 a 1



COUPE - SECTION B - B 1 : 200



COUPE - SECTION A - A 1 : 200

- 01 auvent de couverture entrée
entrance covering platform
- 02 mur de briques en béton vibrant
couleur ocre
vibrate concrete masonry
colour ochre
- 03 mur en béton armé de
soutènement fil diamanté
support concrete masonry for machine
type: diamond-tipped
- 04 panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation
- 05 tracé chariot transporteur
traced slide blocks carts

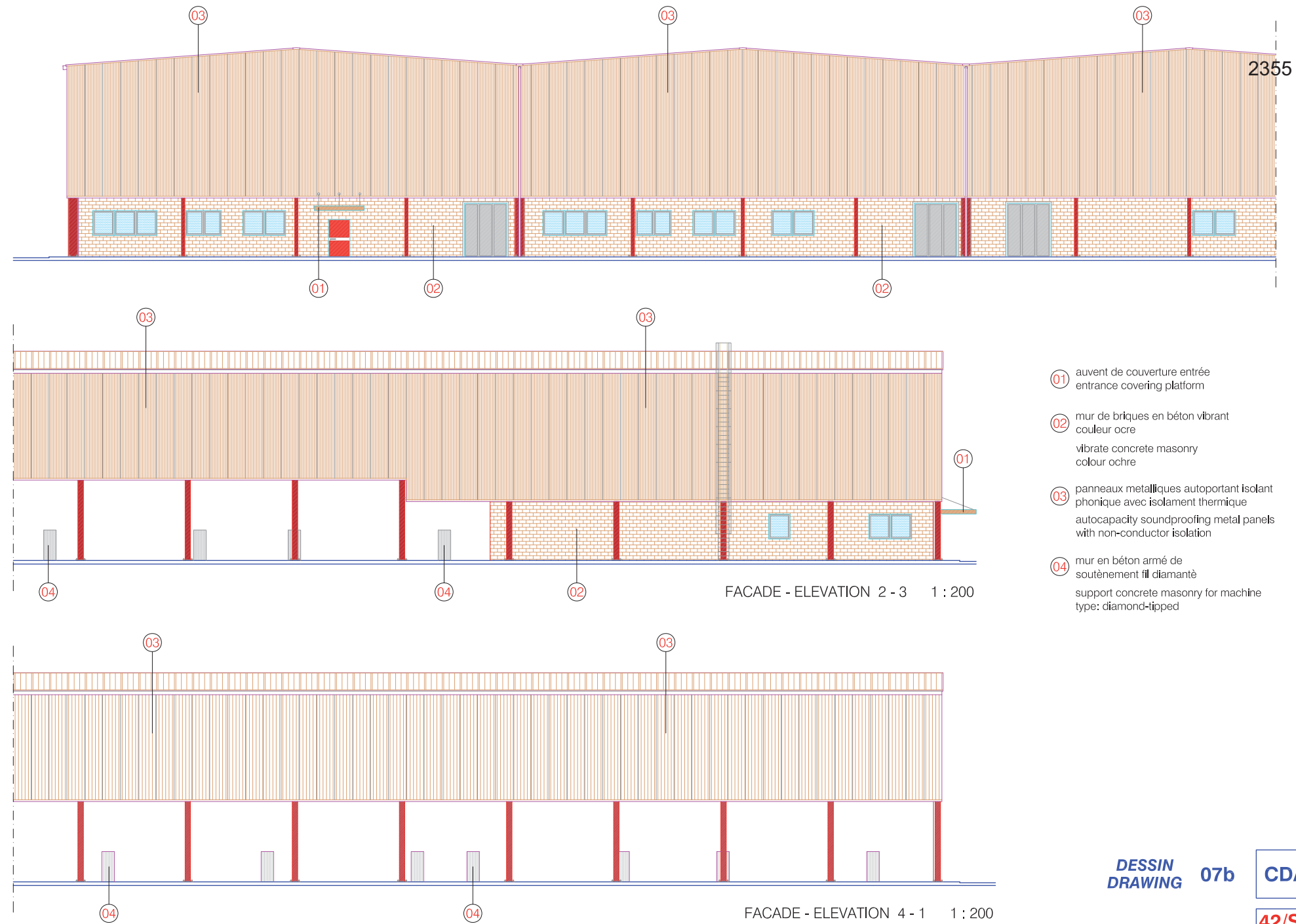
DESSIN
DRAWING 07a

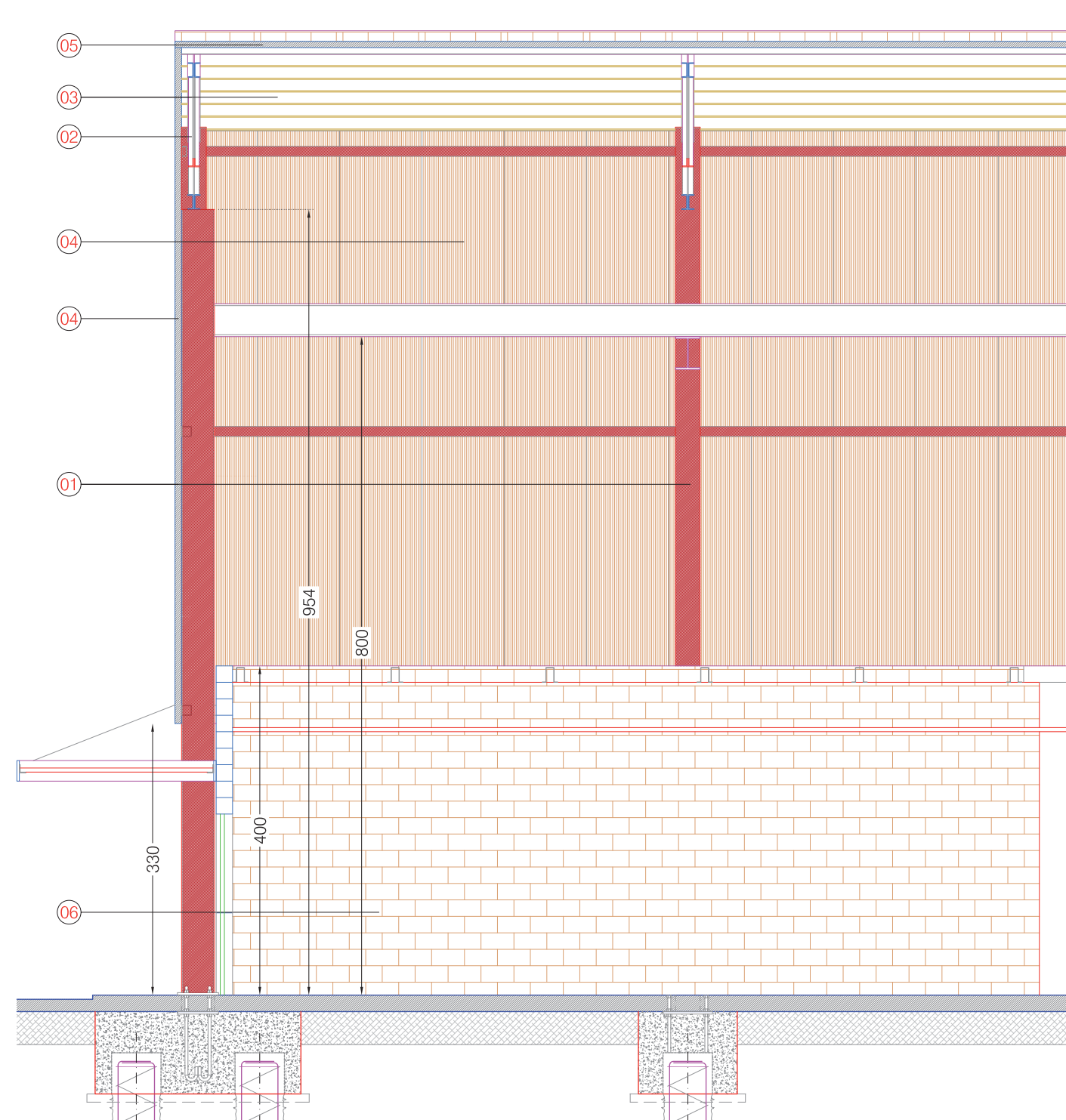
CDA

SECTIONS-ELEVATIONS

42/S3
a 1







COUPE - SECTION A - A 1 : 50

2356

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio
- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- 06 mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre

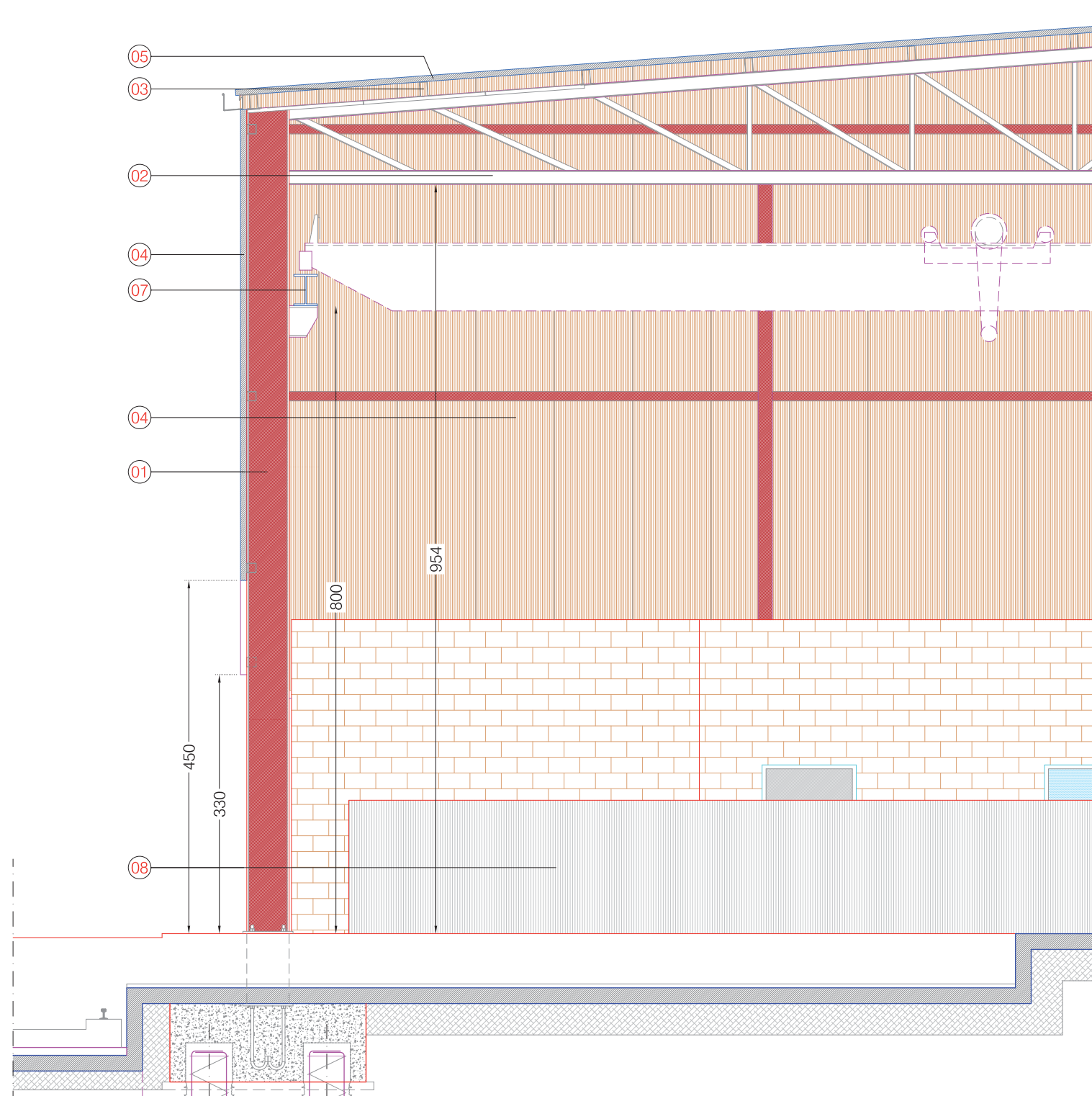
DESSIN
DRAWING 08a

CDA

SECTION-ELEVATION

42/S3
a 1





COUPE - SECTION B - B 1 : 50

2357

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio
- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- 06 mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre
- 07 mensola carroponte
mensola carroponte
- 08 mur en béton armé de soutènement fil diamanté
support concrete masonry for machine type: diamond-tipped

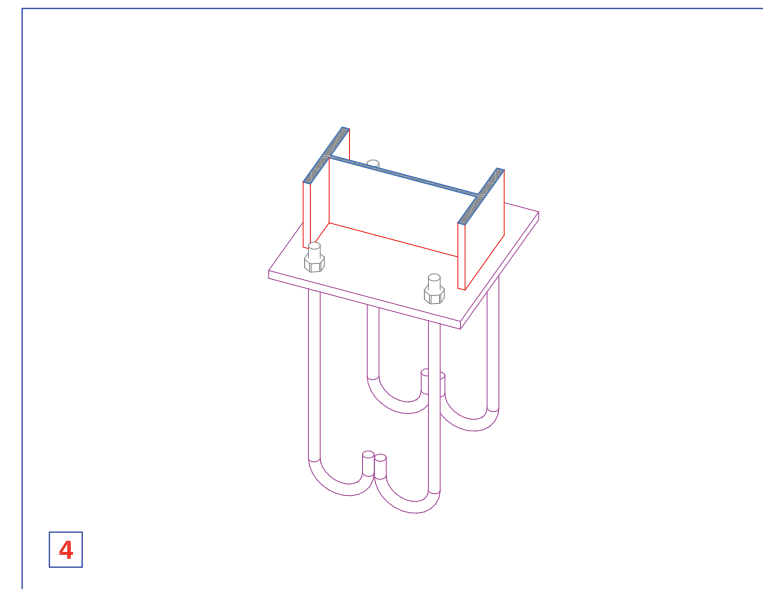
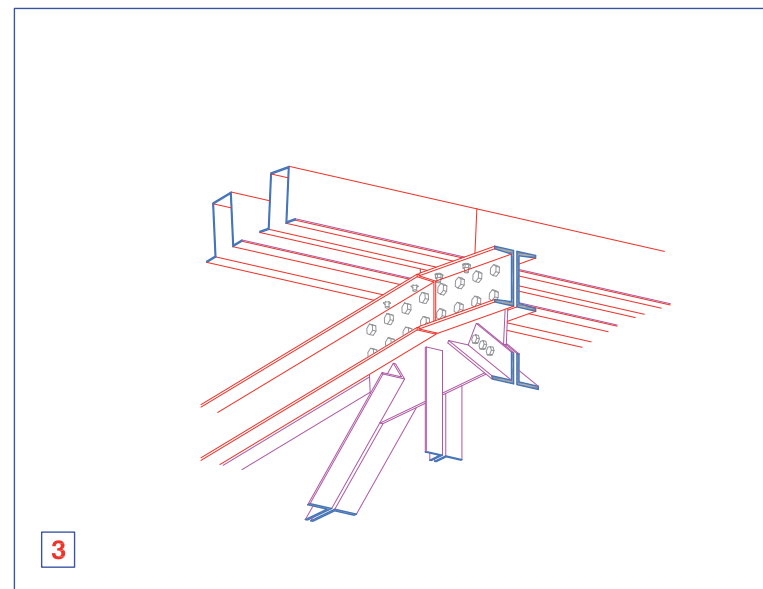
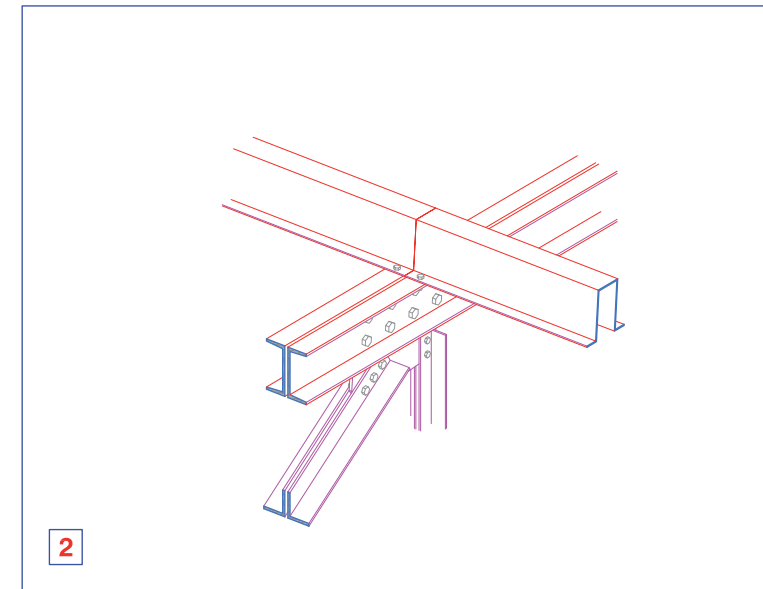
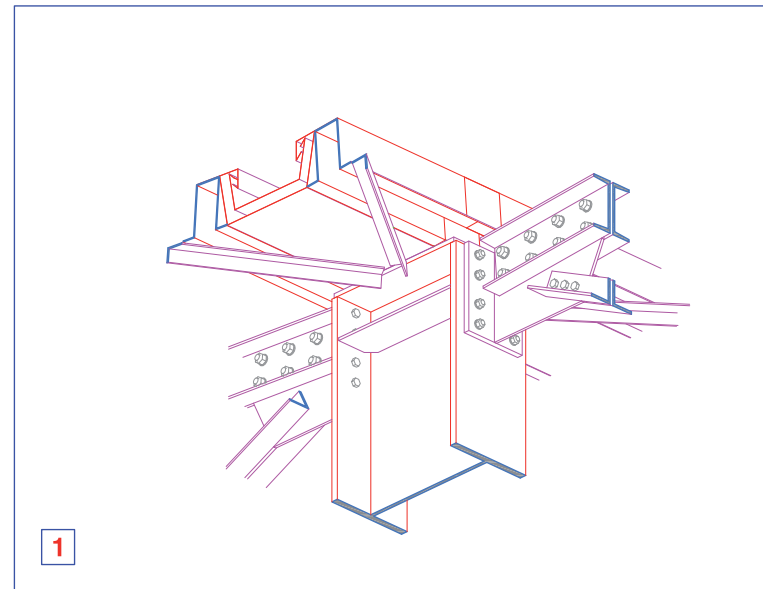
DESSIN
DRAWING 08a

CDA

SECTION-ELEVATION

42/S3
a 1

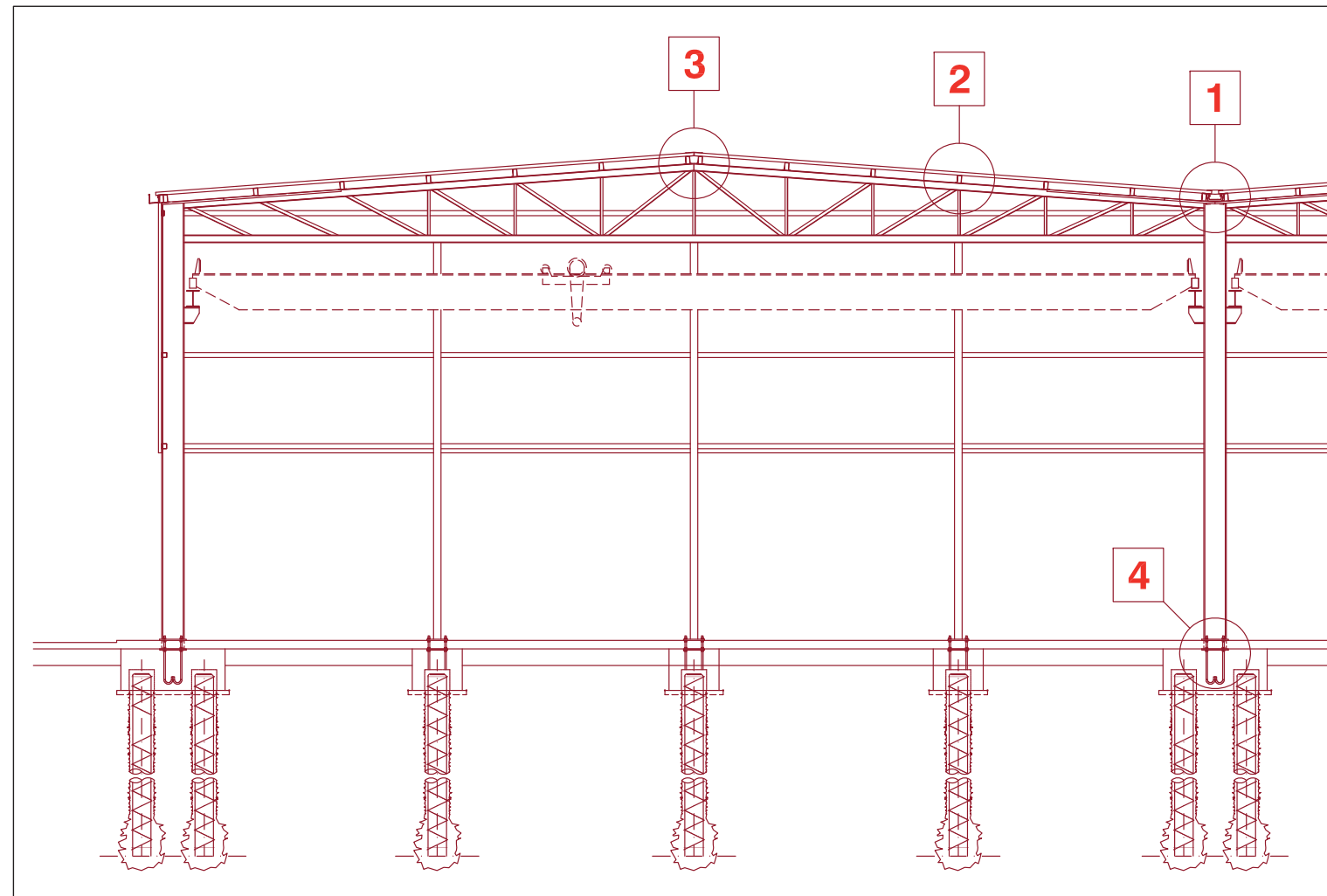




DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

A1

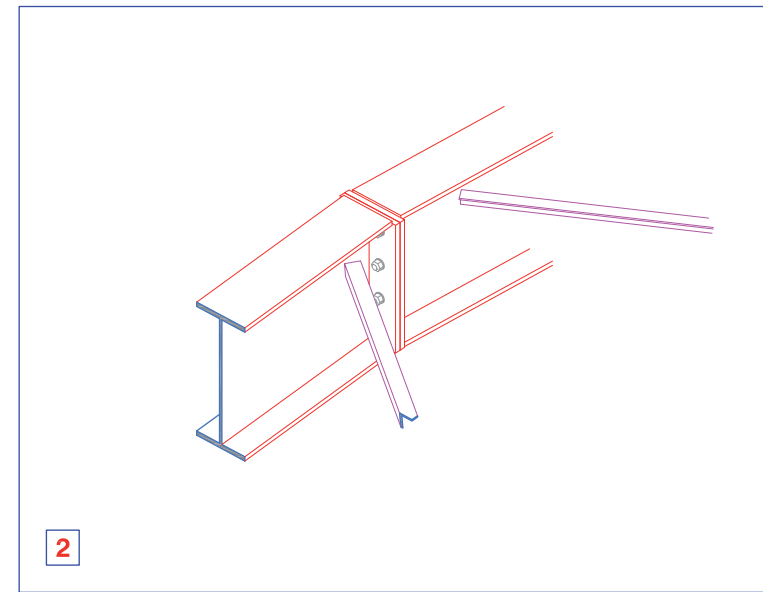
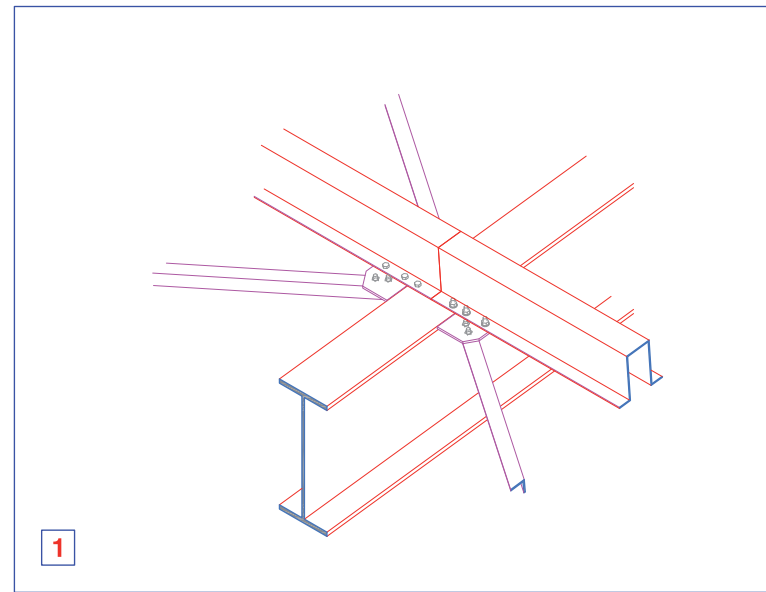
CDA



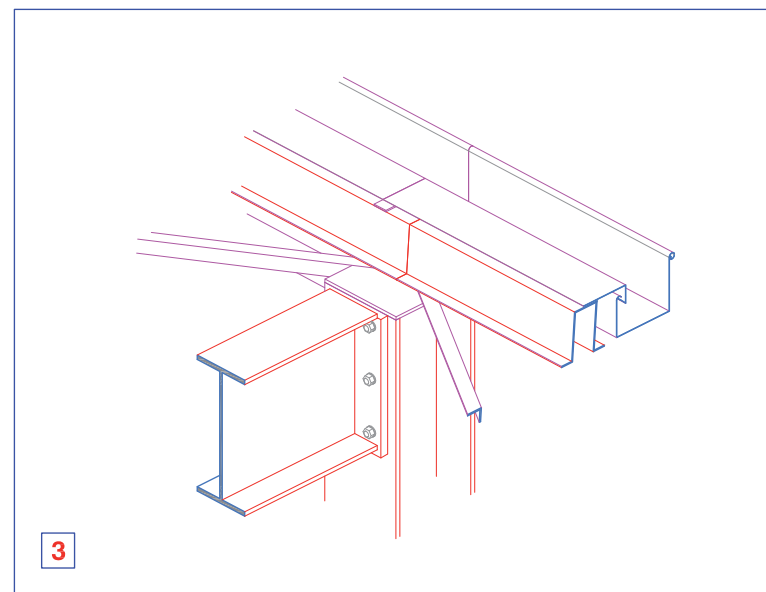
**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

A

CDA



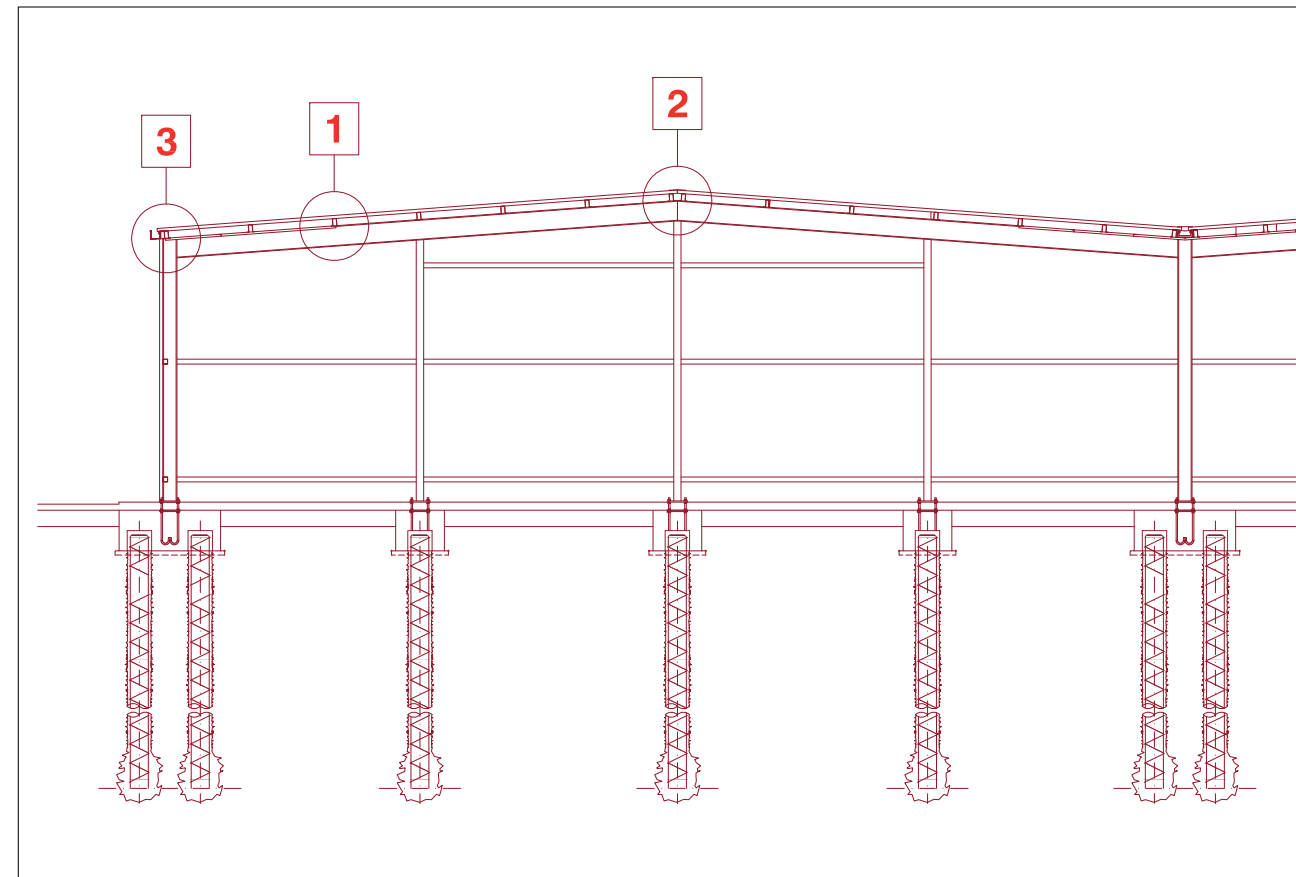
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

B1

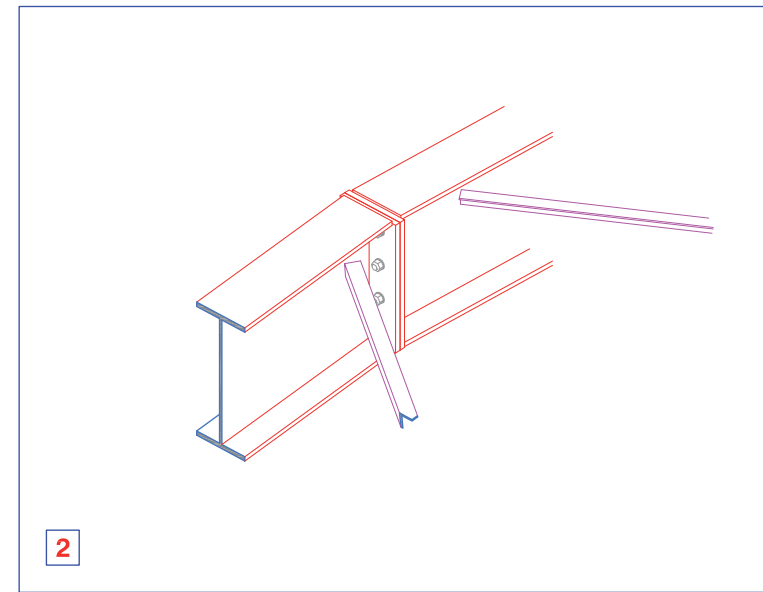
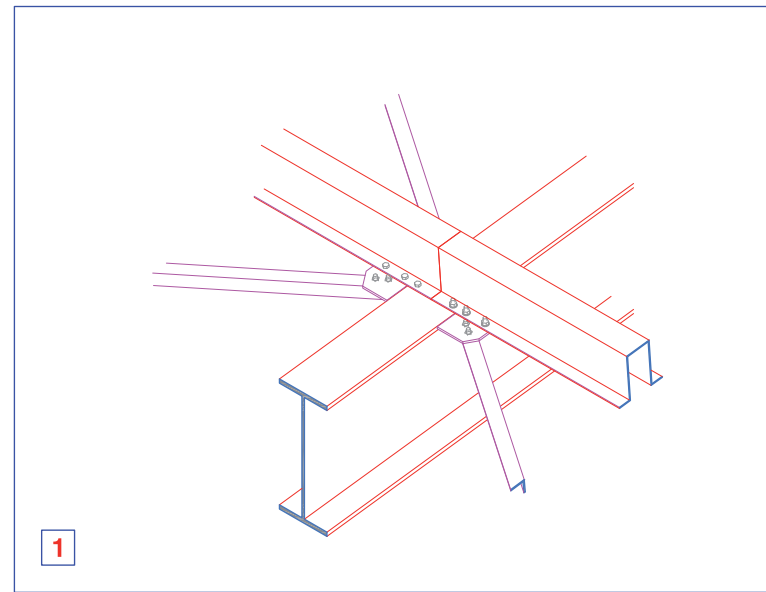
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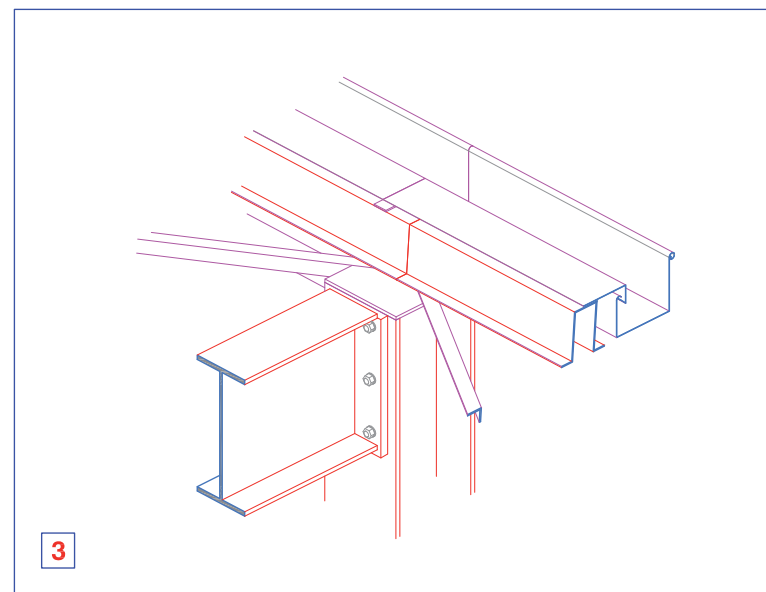
**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

B

CDA



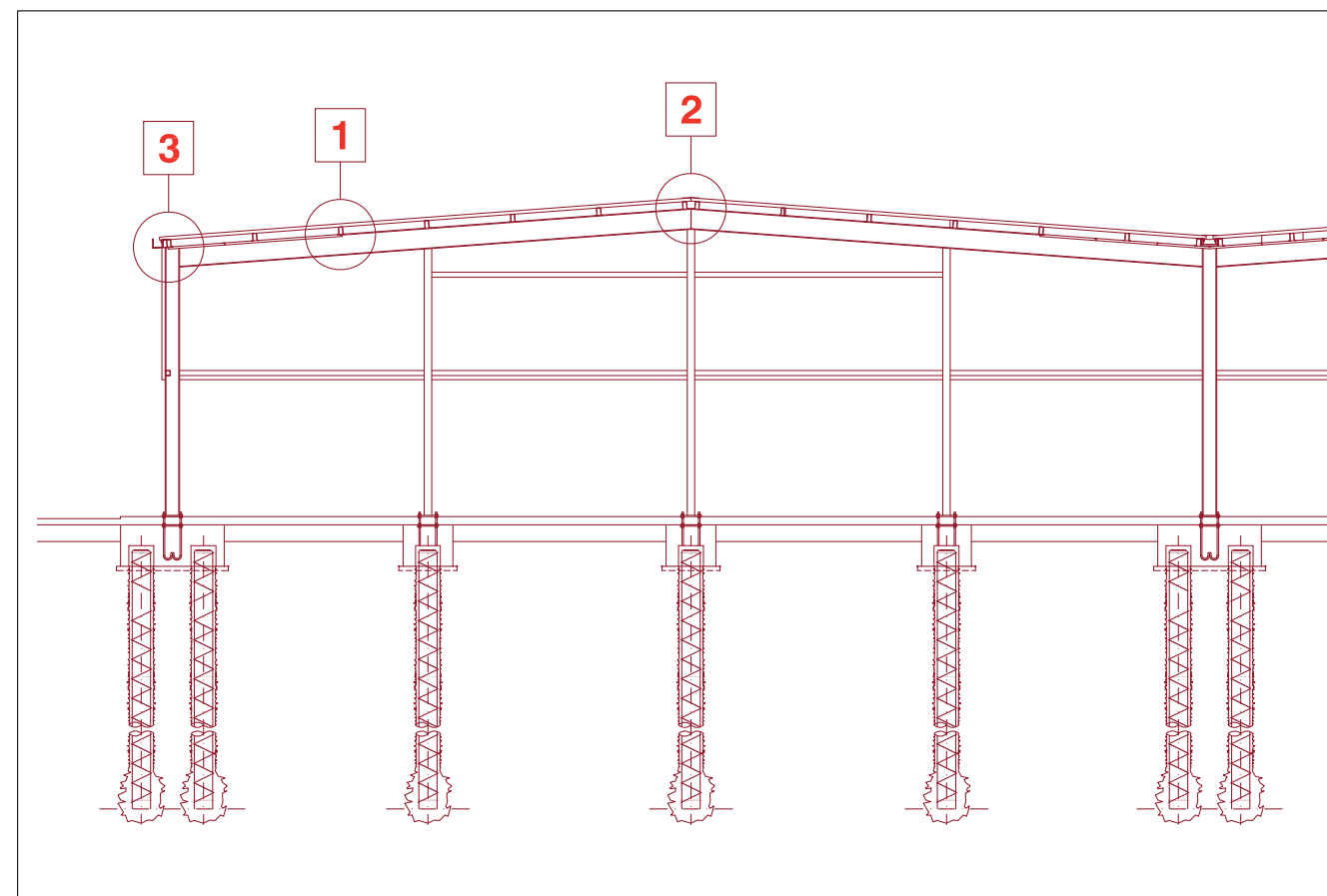
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

C1

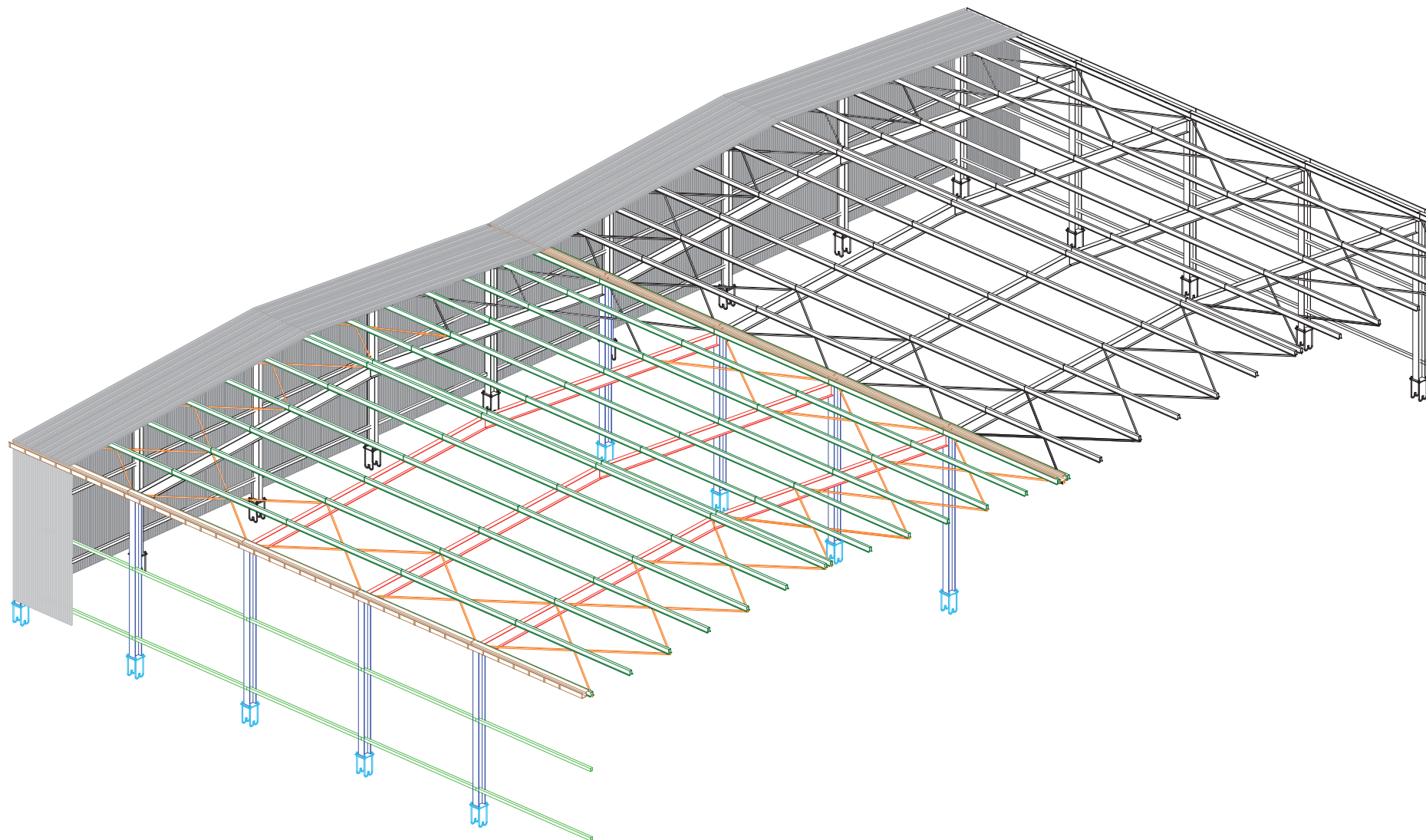
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

C

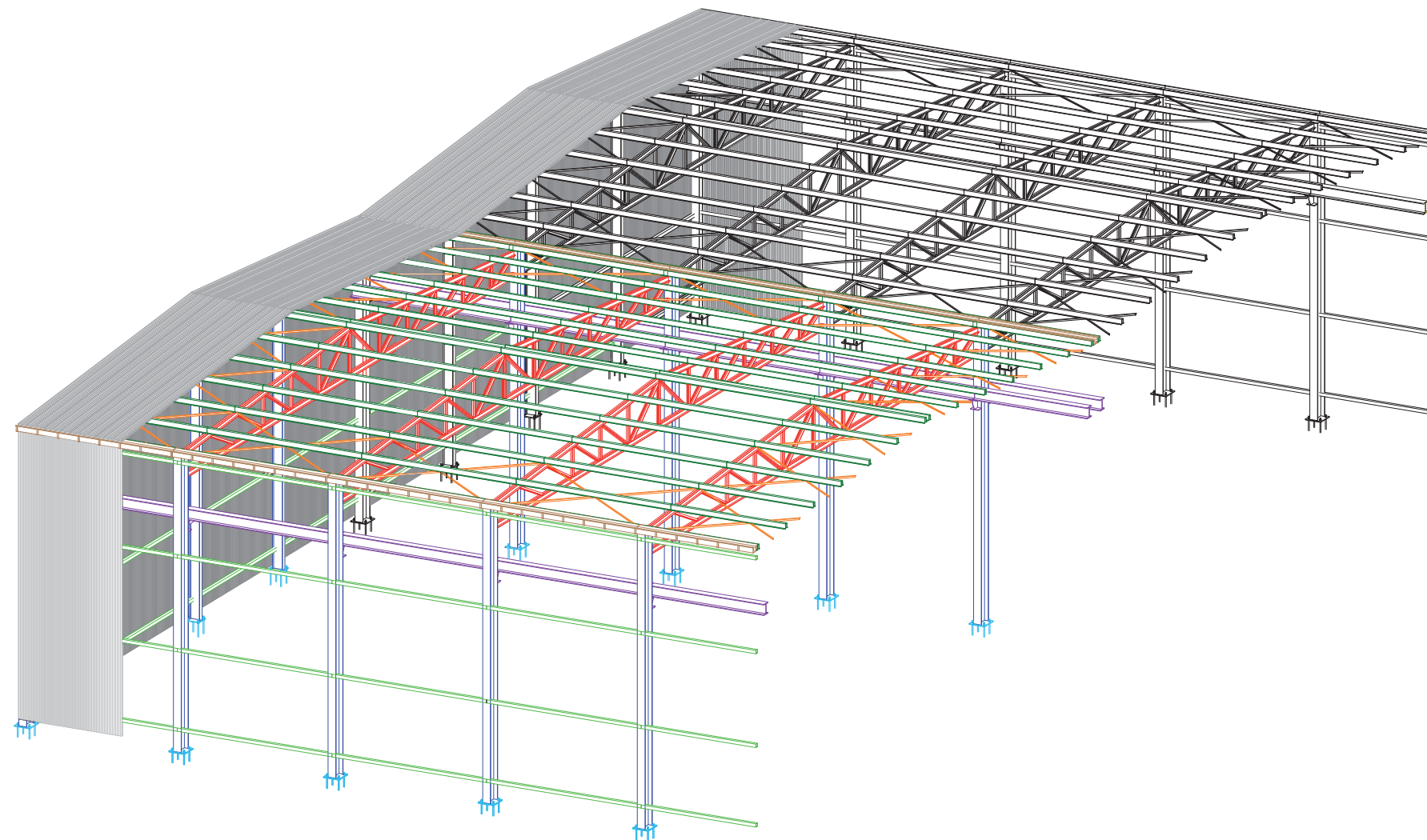
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

D

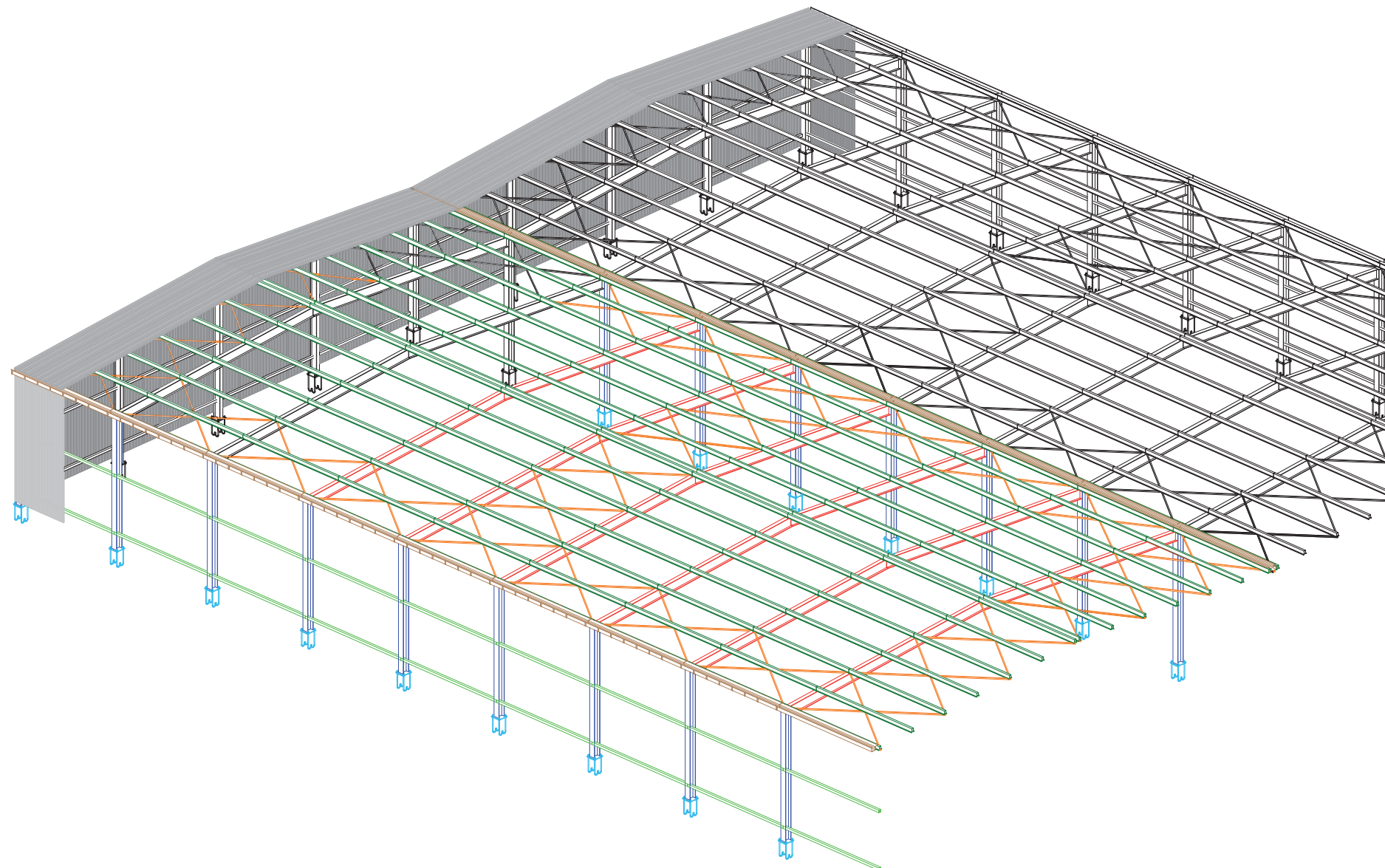
CDA



**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

E

CDA



**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

F

CDA

STIMA DEI LAVORI									
N.	CODICE	DESCRIZIONE SINTETICA	U.M.	Q.TA'	PR. UN.	IMPORTO		CAPITOLO	%
	ART.				EURO	EURO			
SCAVI									
1	02.01.01a	Scavi a sezione aperta, etc..	mc.	2.671,34	6,00	16.028,03			
2	02.01.05.a	Scavi a sezione obbligata, etc.	mc.	4.283,46	11,44	49.002,78			
3	02.02.01a	Rientri , etc.	mc.	2.563,57	6,14	15.740,30			
4	03.01.01d	Palo trivellato	ml	3.720,00	82,92	308.462,40			
5	02.02.03b	Fornitura, stesa e clindratura, etc..	mc.	1.556,58	18,59	28.936,81			
		TOTALE CAPITOLO		418.170,32		418.170,32		418.170,32	35,10
CALCESTRUZZI-ACCIAIO-CASSERI									
6	03.01.09a	Calcestruzzo per magroni, etc..	mc.	555,24	75,07	41.682,17			
7	03.01.10c	Calcestruzzo in fondazione, etc..	mc.	1.239,60	94,36	116.968,66			
8	12.01.01	Additivo antirermi	kg.	366,80	5,00	1.833,99			
9	03.04.01b	Acciaio Feb44k	kg	166.571,80	1,08	179.897,54			
10	3.04.02	Rete elettrosaldata, etc.	kg	25.942,99	1,32	34.244,74			
11	12.01.02	Ferrì a U, chiusura pannelli, etc.	Kg	0,00	2,00	0,00			
12	03.01.11a	Casseformi in legno, etc.	mq.	3.111,85	21,69	67.495,98			
		TOTALE CAPITOLO		442.123,08		442.123,08		442.123,08	37,11
MURATURE-TAVOLATI-DIVISIONI INTERNE									
13	05.01.09b	Muratura in blocchi di cls, spess. 15 cm etc..	mq.	93,08	21,04	1.968,40			
14	05.01.09c	Muratura in blocchi di cls, spess. 20 cm etc..	mq.	650,32	22,38	14.564,16			
15	05.01.09.d	Muratura in blocchi di cls, spess. 25 cm etc..	mc.	0,00	186,14	0,00			
		TOTALE CAPITOLO		16.512,56		16.512,56		16.512,56	1,39
INTONACI									
16	07.01.02c	Intonaco rustico, su pareti in forati	mq.	221,85	17,56	3.895,69			
17	07.01.03c	Intonaco a civile	mq.	614,63	18,74	11.518,17			
		TOTALE CAPITOLO		15.413,85		15.413,85		15.413,85	1,29
VESPAI									
18	12.01.03	Vespai con igloo, etc.	mq.	451,50	55,20	24.922,80			
		TOTALE CAPITOLO		24.922,80		24.922,80		24.922,80	2,09
PAVIMENTI E RIVESTIMENTI									
19	12.01.04a	Pavimento industriale	mq.	5.188,60	28,40	147.356,16			
20	12.01.04b	Trattamento antipolvere, etc.	mq.	5.188,60	3,46	17.962,55			
21	3.02.10	Sottfondi, etc..	mq.	451,50	11,75	5.305,13			
22	08.01.18d	Piastrelle in gres, etc..	mq.	673,35	25,00	16.833,75			
23	07.02.03b	Controsoffitto , etc..	mq.	451,50	32,48	14.664,72			
		TOTALE CAPITOLO		202.112,30		202.112,30		202.112,30	16,97

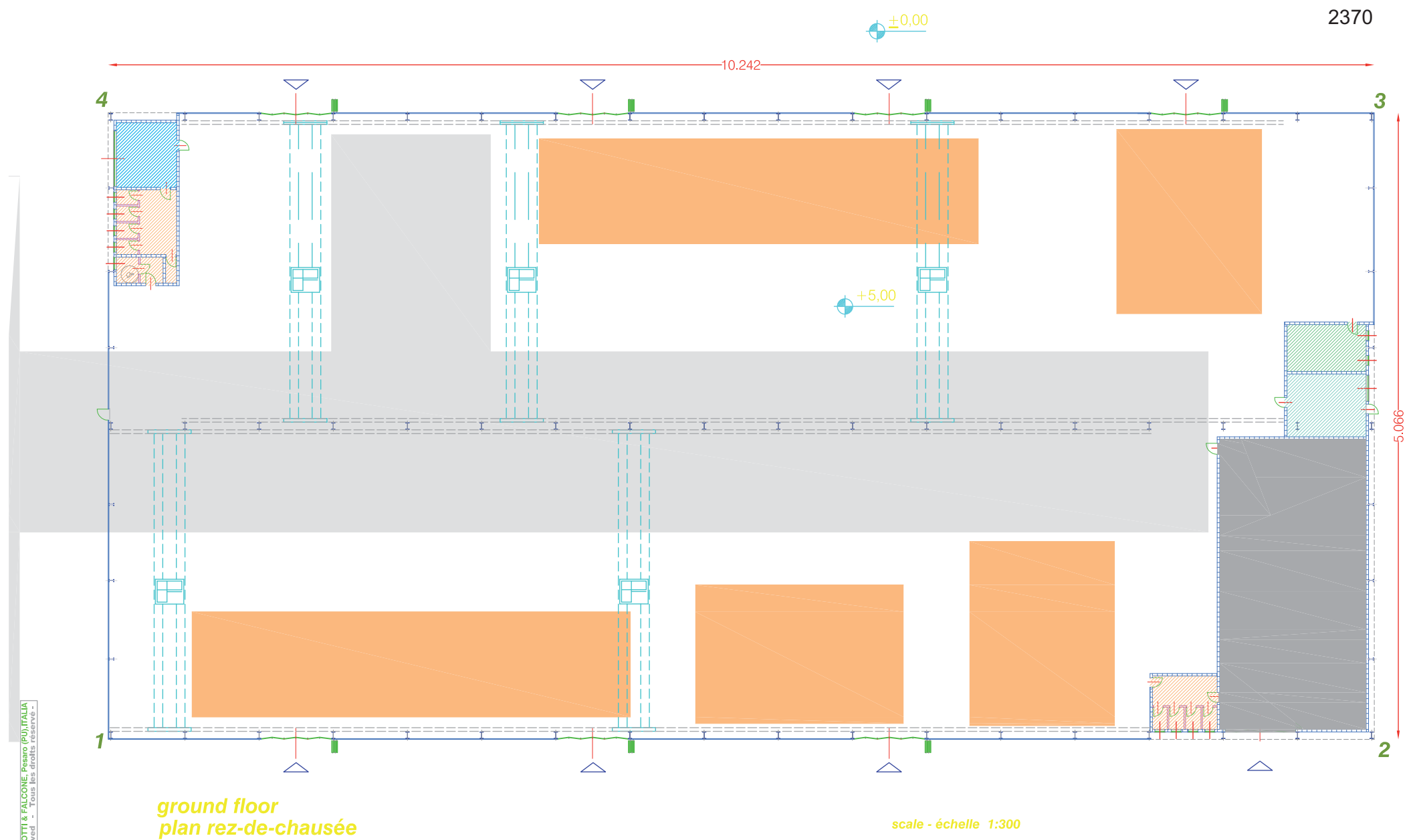


QUADRO RIEPILOGATIVO	
COSTO CAPANNONE	Euro 1.191.291,92
SUPERFICIE CAPANNONE	mq. 5.188,60
COSTO MEDIO	Euro/mq. 229,50

GRUPPO MAS									
LOTTO	ALFREDO	SISTEMAZIONI	PAESE	COSTA D'AVORIO	UNICA				
		ESTERNE		SOCIETA'	COLLE				
PARAMETRI SIGNIFICATIVI					NOTE				
N. CADICE ART.	DESCRIZIONE SINTETICA	U.M.	Q.TA'	PR. UN.	IMPORTO		CAPITOLO	%	
SCAVI									
1	02.01.01a	mc.	818,93	11,44	9.368,54				
2	02.02.01a	mc.	856,41	6,14	5.258,35				
3	02.02.03b	mc.	6.353,70	18,59	118.115,28				
		TOTALE CAPITOLO			132.742,16		132.742,16	10,21	
CALCESTRUZZI-ACCIAIO-CASSERI									
4	03.01.09a	mc.	82,85	75,07	6.219,40				
5	03.01.10c	mc.	280,05	94,36	26.425,33				
6	12.01.01	kg	6.773,77	5,00	33.868,86				
7	03.04.01b	kg.	16.802,88	1,08	18.147,11				
8	3.04.02	kg	167.314,10	1,32	220.854,61				
9	03.01.11a	mq.	261,24	21,69	5.666,30				
		TOTALE CAPITOLO			311.181,61		311.181,61	23,93	
PAVIMENTI E RIVESTIMENTI									
10	12.01.04a	mq.	21.179,00	28,40	601.483,60				
11	12.01.04b	mq.	21.179,00	3,46	73.279,34				
		TOTALE CAPITOLO			674.762,94		674.762,94	51,89	
CANCELLI									
12	12.01.11	kg	4.193,20	3,00	12.579,60				
		TOTALE CAPITOLO			12.579,60		12.579,60	0,97	
SISTEMAZIONE AREE VERDI									
13	14.01.01	mc.	6.090,00	26,25	159.862,50				
14	14.01.02	mq.	6.090,00	0,315	1.918,35				
15	14.01.03	mq.	6.090,00	0,222	1.351,98				
16	14.01.04	cad.	60	100,00	6.000,00				
17	14.01.05	mq.	0,00	3,00	0,00				
18	14.01.06	cad.	60	0,60	36,00				
19	14.01.07	mq.	0,00	0,52	0,00				
		TOTALE CAPITOLO			169.168,83		169.168,83	13,01	
		TOTALE LAVORI			1.300.435,14		1.300.435,14	100	

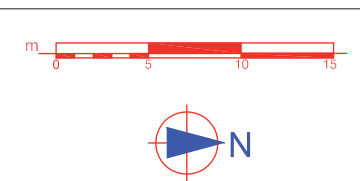
QUADRO RIEPILOGATIVO		COLLE
COSTO TOTALE	Euro	1.300.435,14
TOTALE AREE ESTERNE	mq.	27.269,00
COSTO MEDIO	Euro/m	47,69





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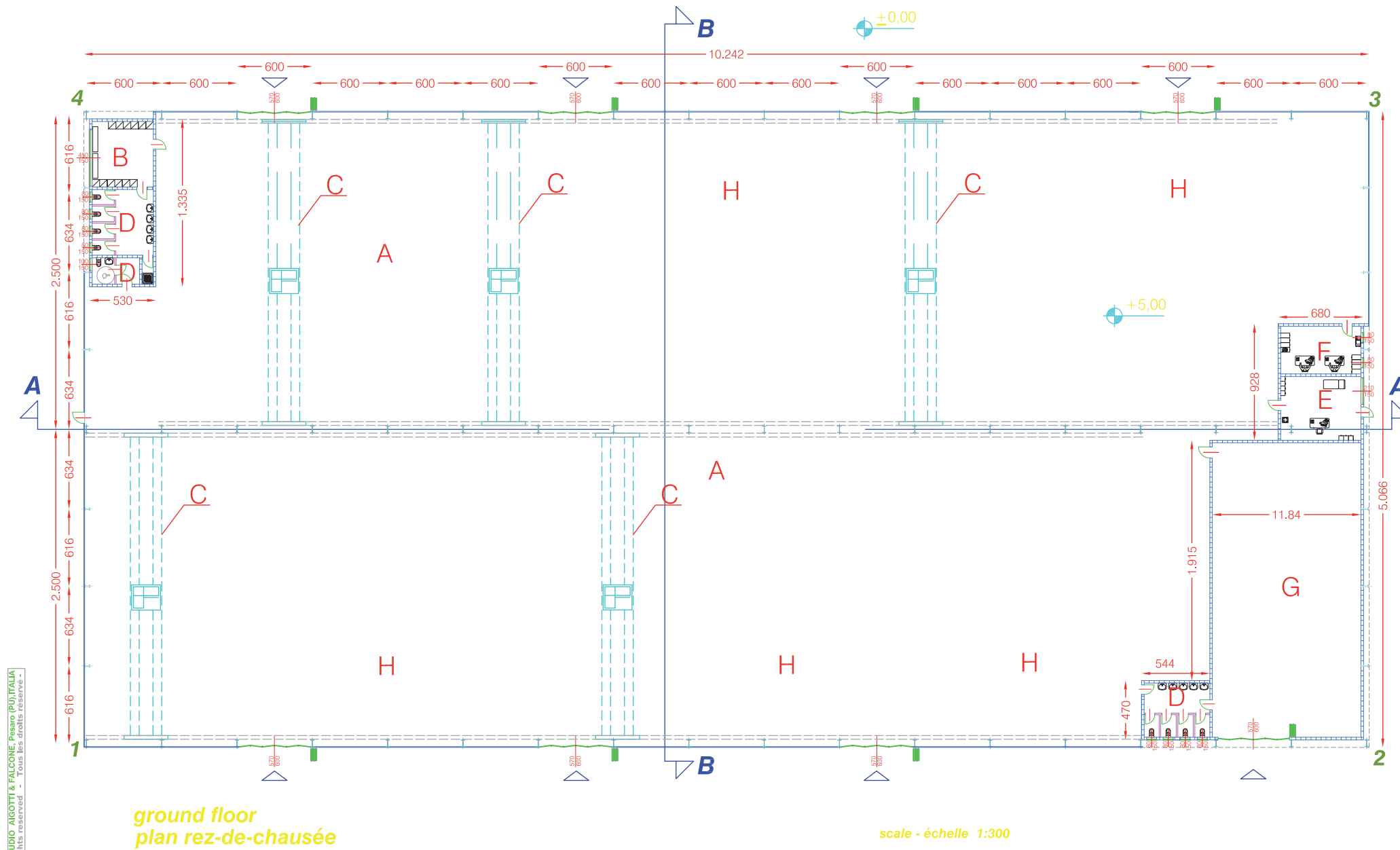
 working area secteur de travail	 dressing room vestiaire	 first aid premiere secours	 workshop atelier
 wc toilettes	 office bureau	 moulds parking depot moules	



DRAWING DESSIN	03
GROUND FLOOR MAP WITH AREA FUNCTION PLAN REZ-DE-CHAUSSÉE AVEC DETERMINATION DES FONCTIONS	

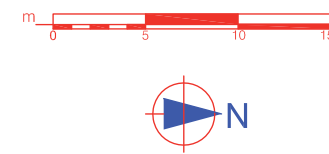
CDA
C 04





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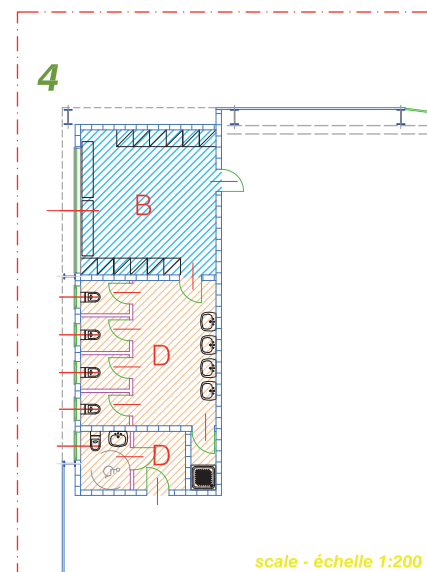
A working area secteur de travail	C bridge crane 20 ton pont roulant 20 ton	E first aid première secours	G workshop atelier
B locker room - men vestiaire - hommes	D wc toilets	F office bureau	H moulds parking depot moules



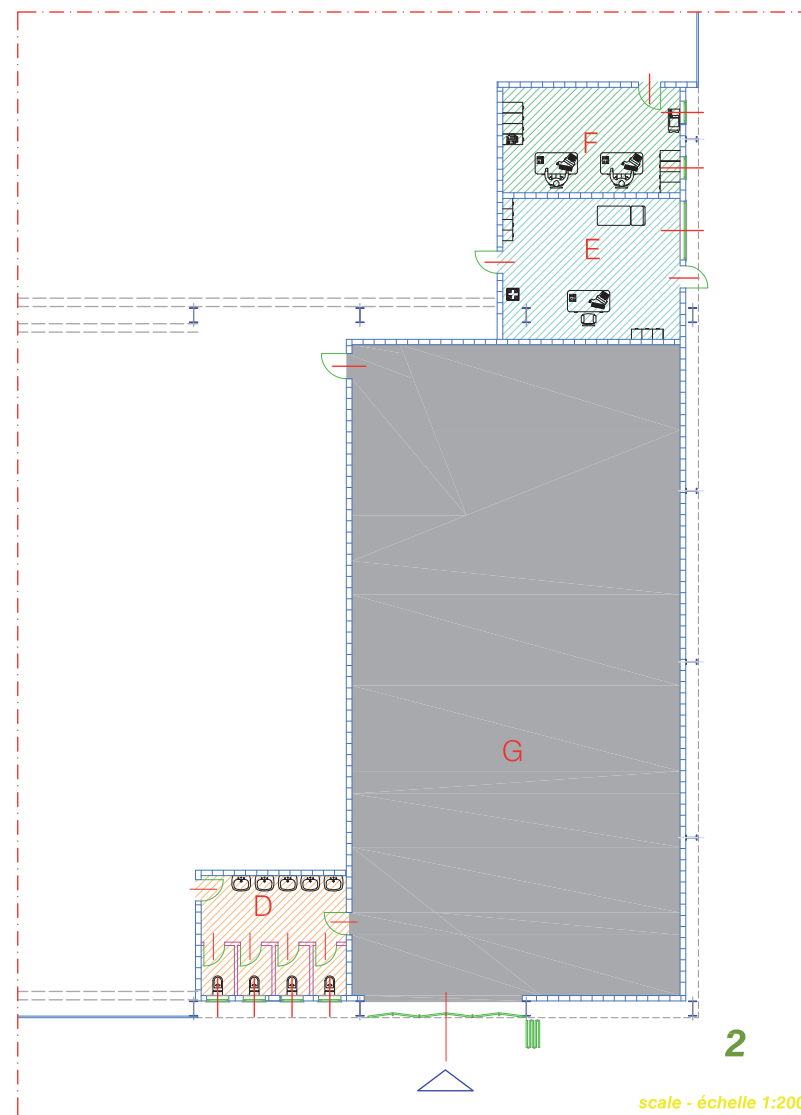
DRAWING DESSIN	03A
GROUND FLOOR FUNCTIONAL AND TECHNICAL MAP PLAN REZ-DE-CHAUSÉE AVEC DETERMINATION DES FONCTIONS	

CDA
C 04

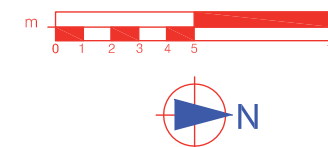
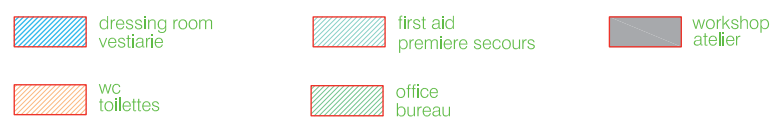




GROUND FLOOR
PLAN REZ-DE-CHAUSEE



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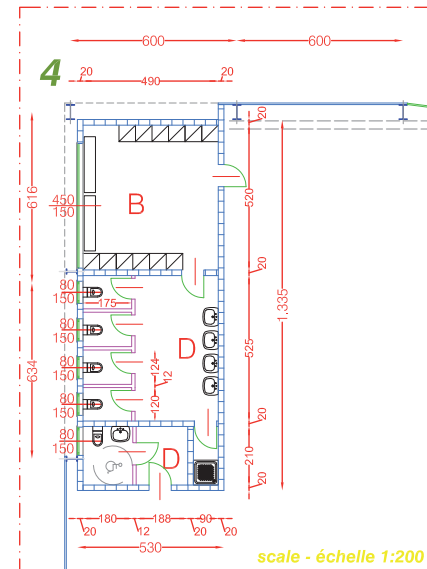
**DRAWING
DESSIN** **04**

GENERAL SERVICES MAP
WITH AREA FUNCTION
PLAN REZ-DE-CHAUSEE
AVEC DETERMINATION DE FUNCTION

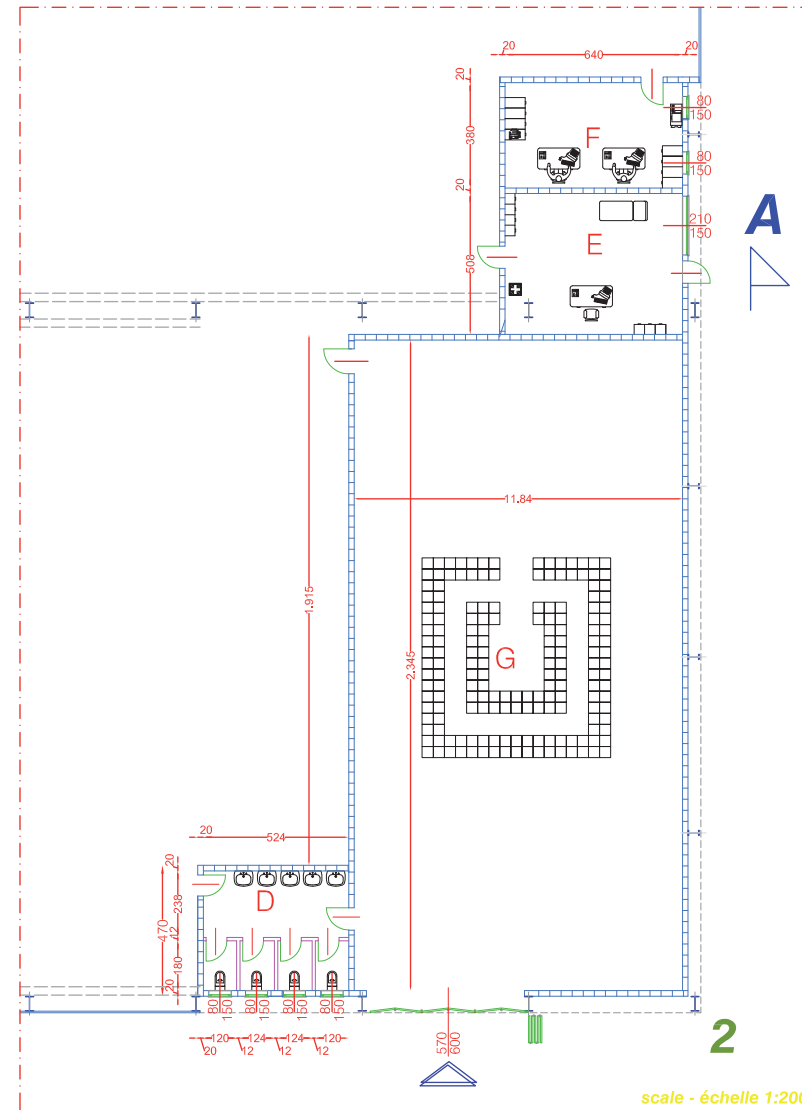
CDA

C 04





GROUND FLOOR
PLAN REZ-DE-CHAUSEE



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B dressing room
vestiaire

E first aid
premiere secours

G workshop
atelier

D wc
toilettes

F office
bureau

m 0 1 2 3 4 5 10



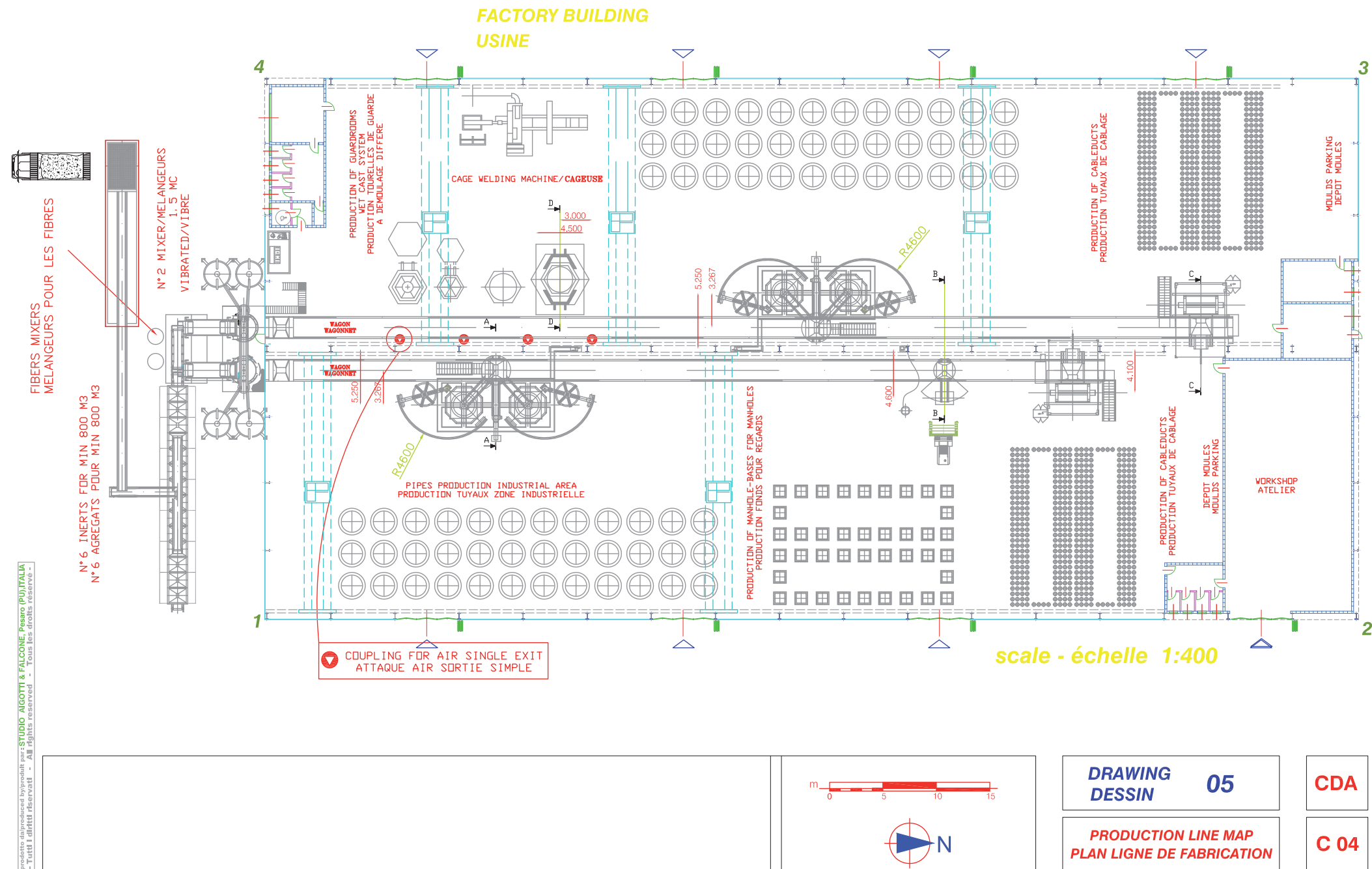
DRAWING
DESSIN 04A

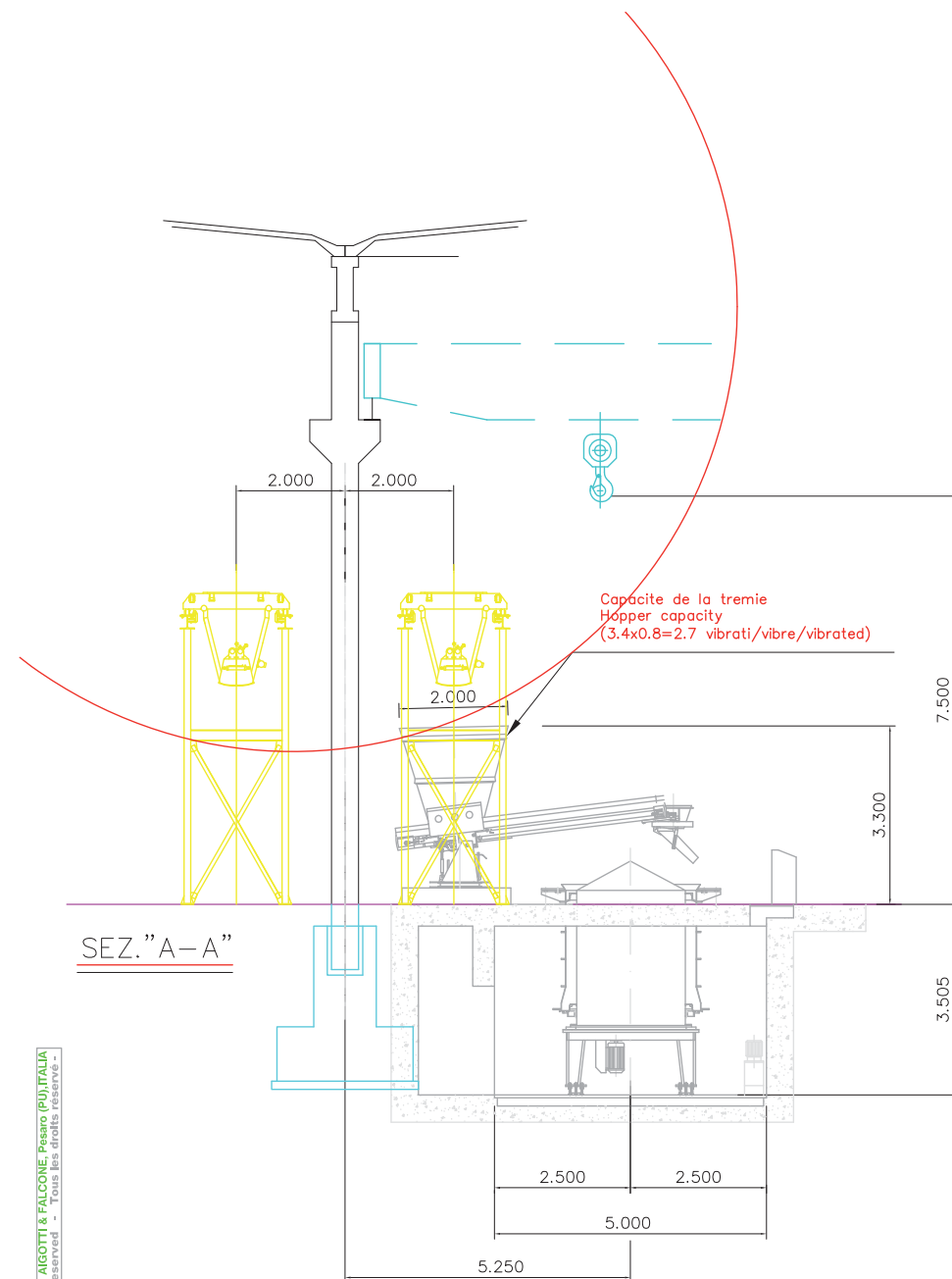
DIMENSIONAL TECHNICAL
GENERAL SERVICES MAP
PLAN SERVICES GENERAL
TECHNIQUE DIMENSIONEL

CDA

C 04

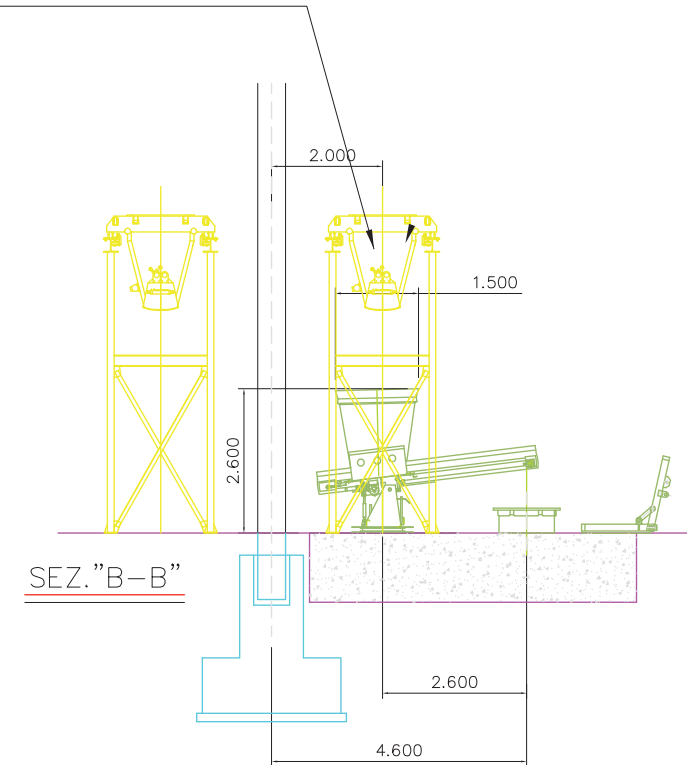






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COTE SOUS WAGONNET POUR PASSER AVEC CHARIOTS/
QUOTE UNDER WAGON TO PASS WITH CARTS=4000



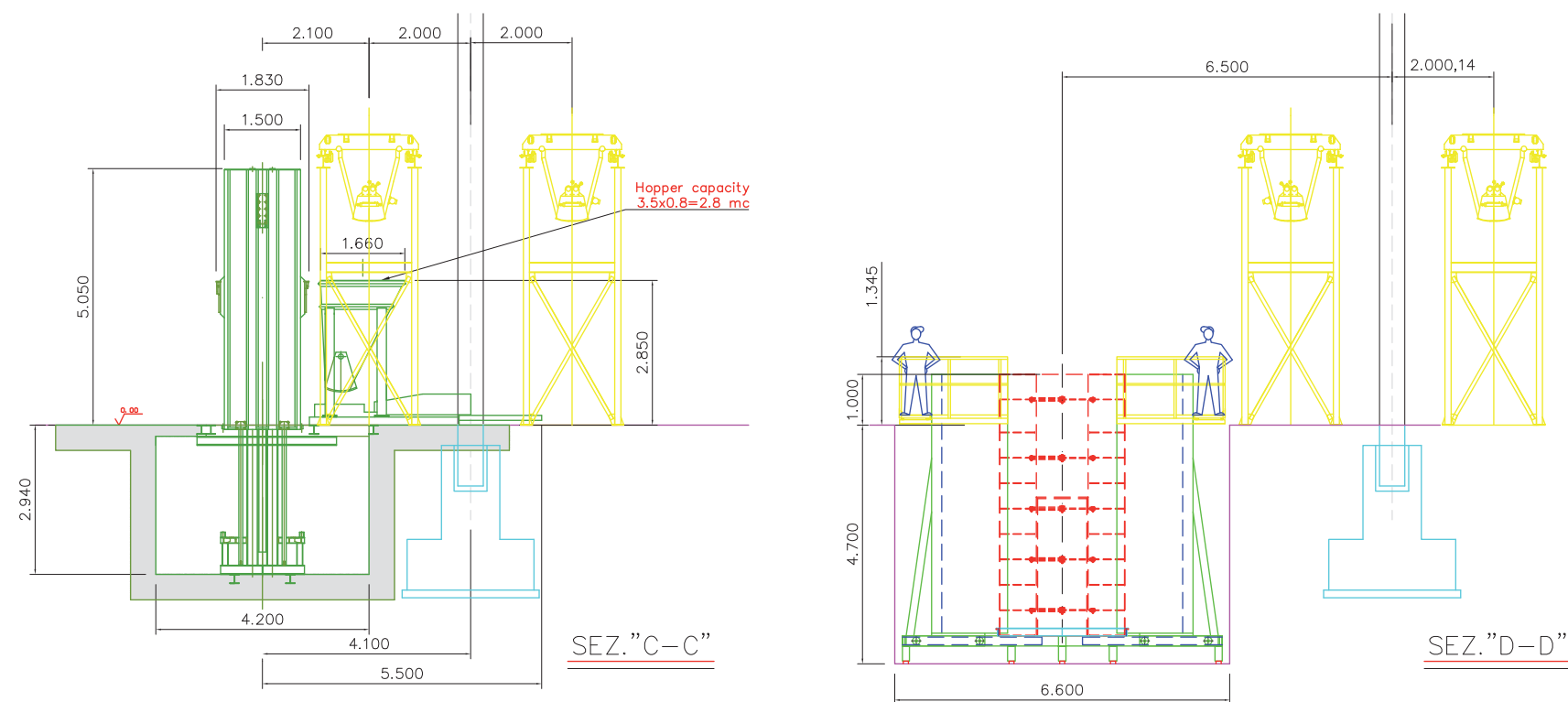
DRAWING
DESSIN **05a**

PRODUCTION LINE MAP
-DETAILS-
PLAN LIGNE DE FABRICATION
-DETAILLES-

CDA

C 04





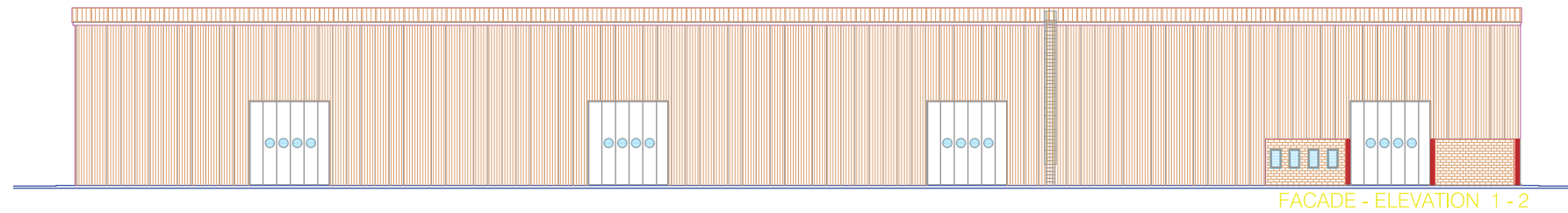
DRAWING
DESSIN **05b**

PRODUCTION LINE MAP
-DETAILS-
PLAN LIGNE DE FABRICATION
-DETAILLES-

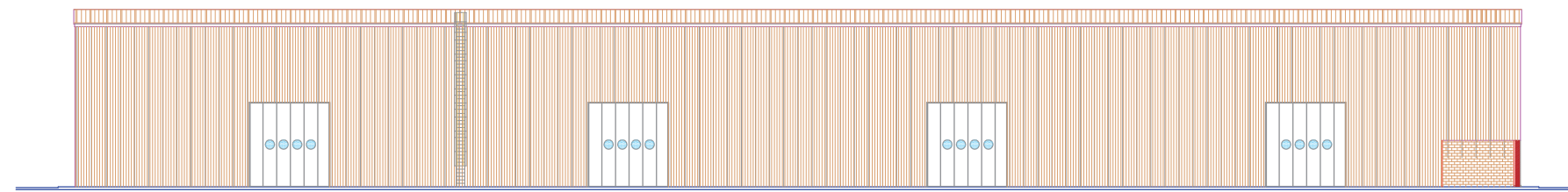
CDA

C 04

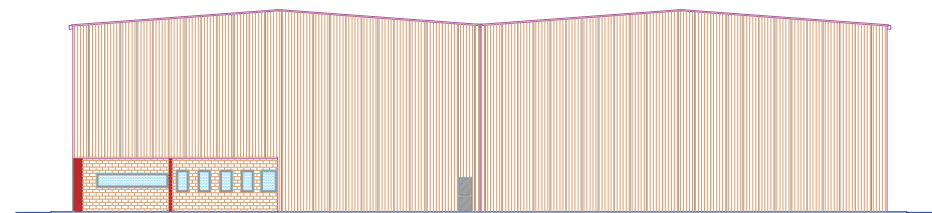




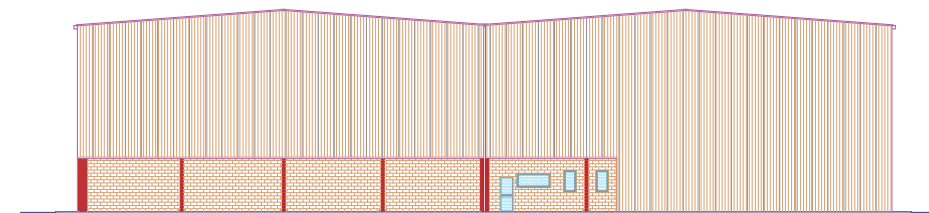
FACADE - ELEVATION 1 - 2



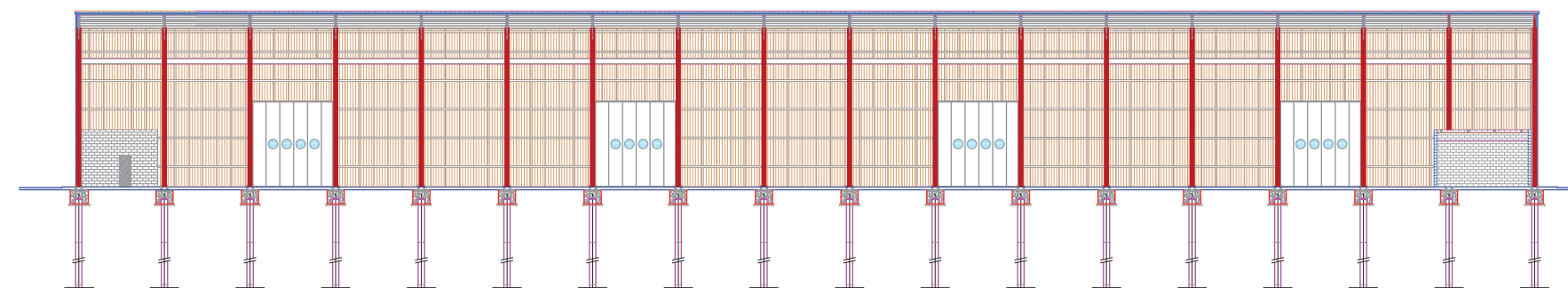
FACADE - ELEVATION 3 - 4



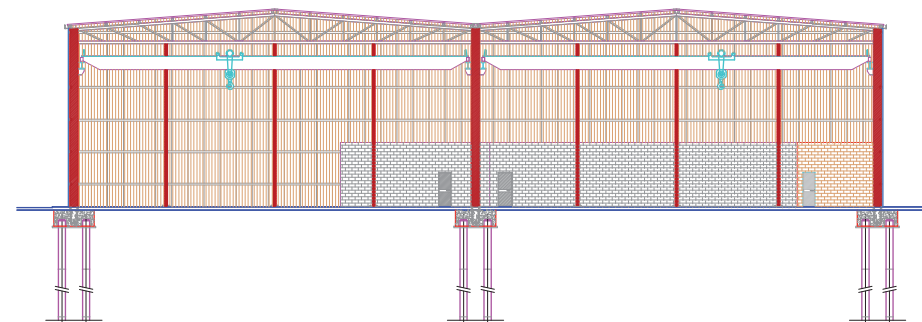
FACADE - ELEVATION 4 - 1



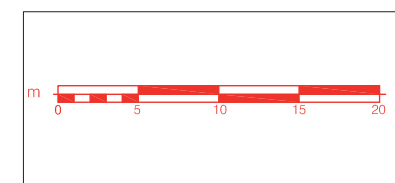
FACADE - ELEVATION 2 - 3



COUPE - SECTION A - A



COUPE - SECTION B - B



DRAWING
DESSIN **06**

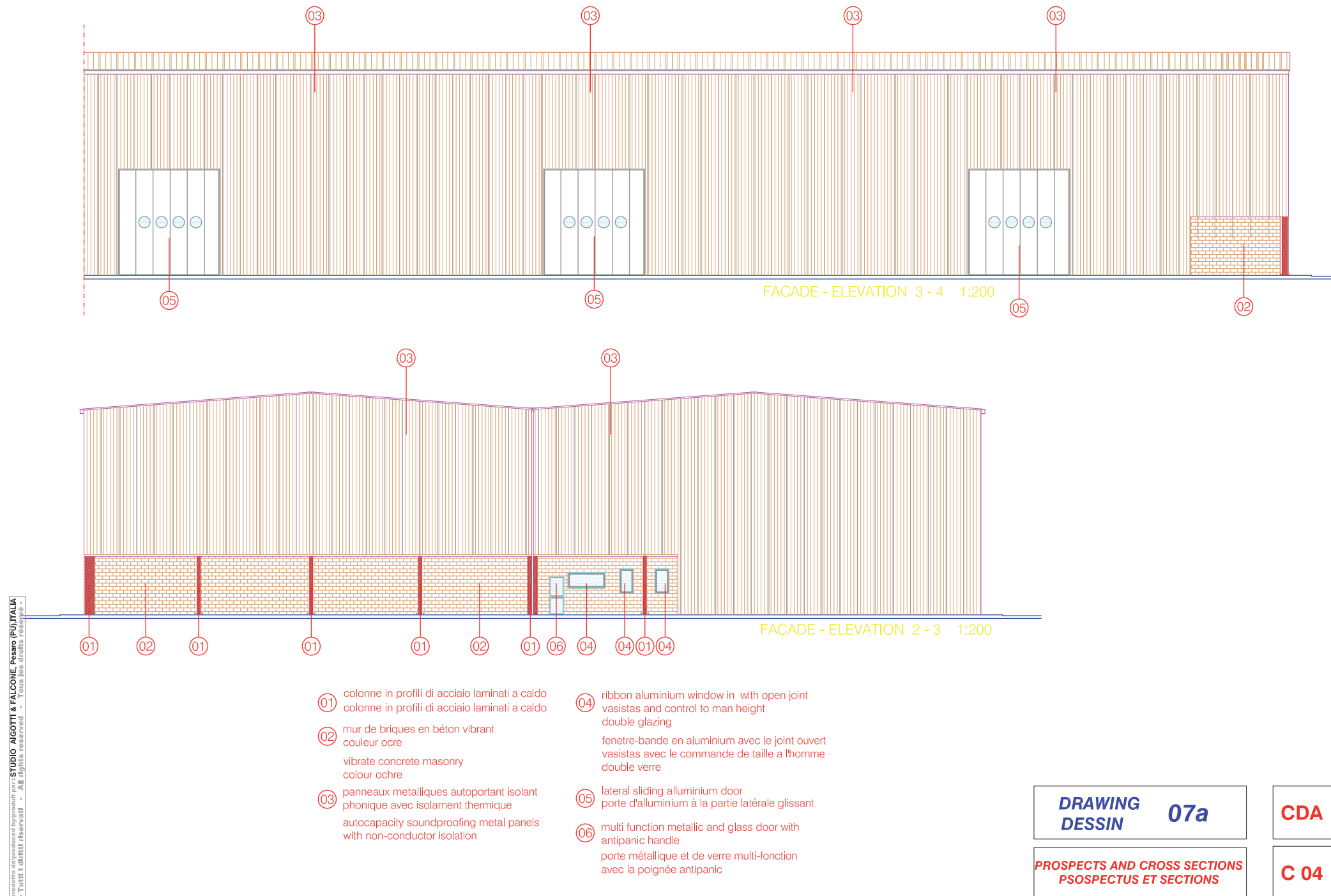
PROSPECTS AND CROSS SECTIONS
PSOSPECTUS ET SECTIONS

CDA

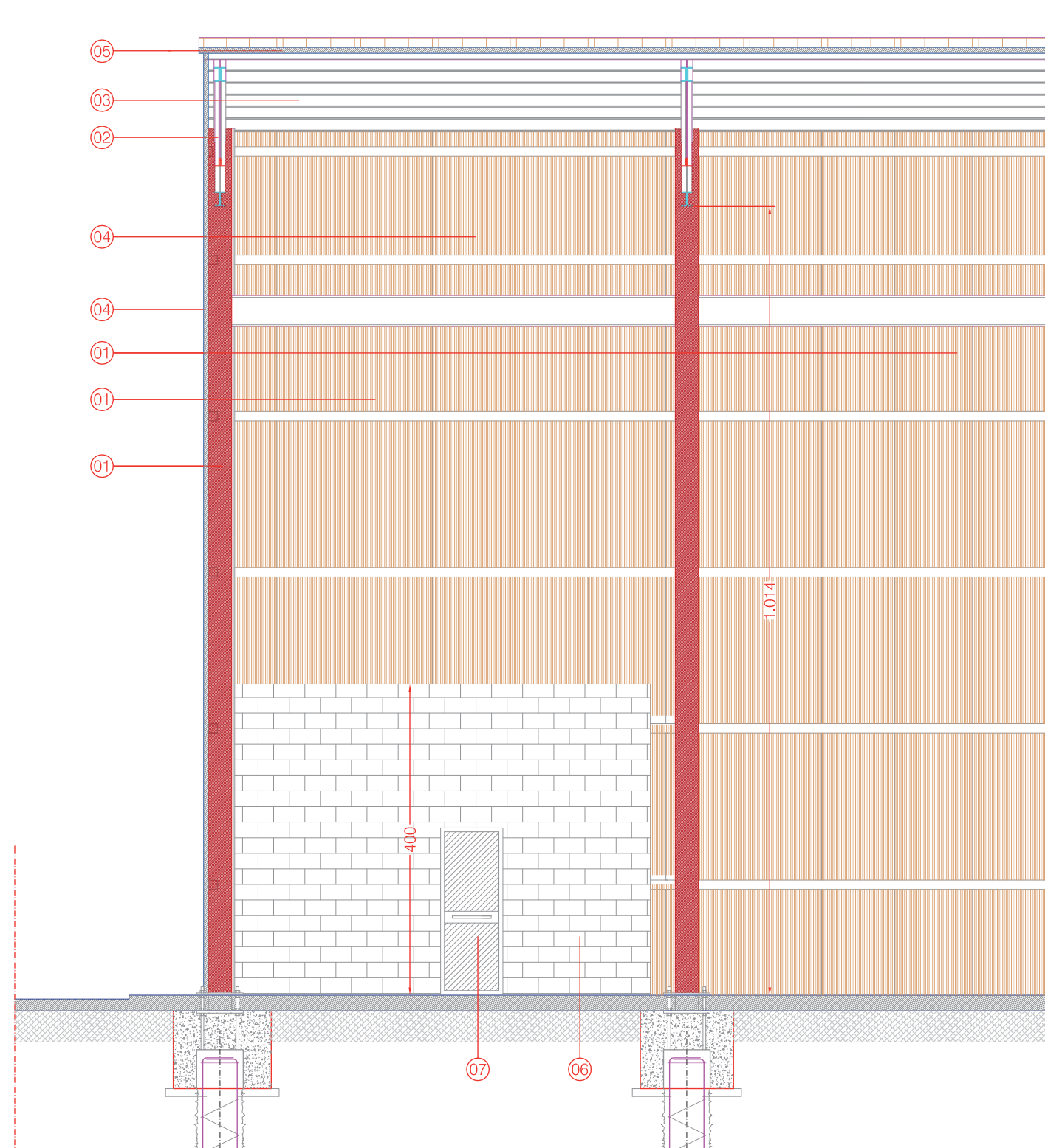
C 04

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COUPE - SECTION A - A 1 : 50

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio
- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- 06 mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre
- 07 multi function metallic and glass doors
with antipanic handle
porte métallique et de verre multi-fonction
avec la poignée antipanic

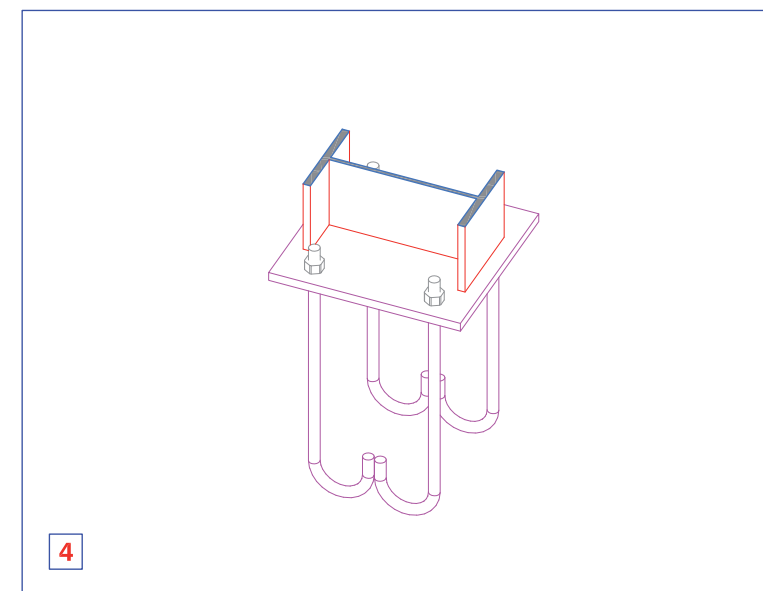
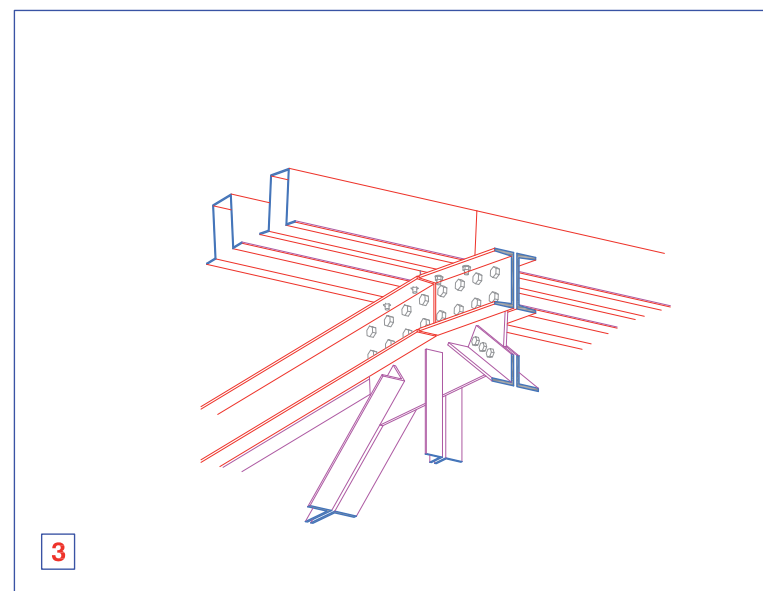
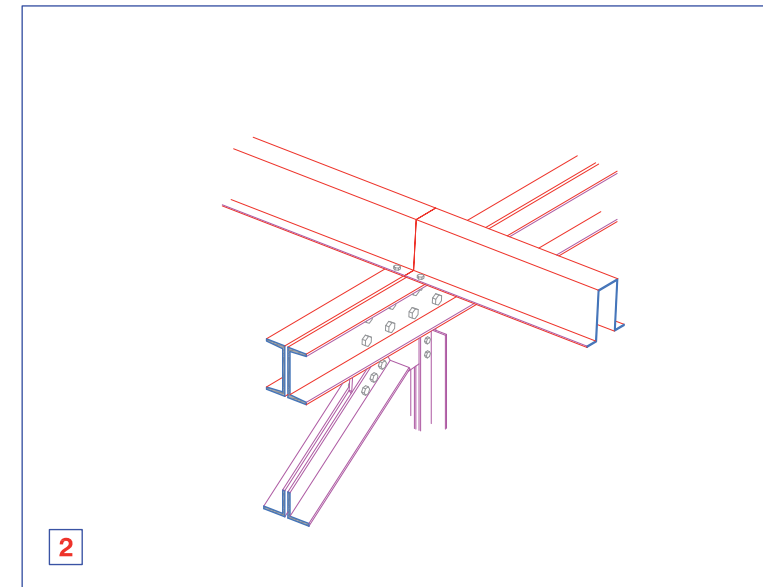
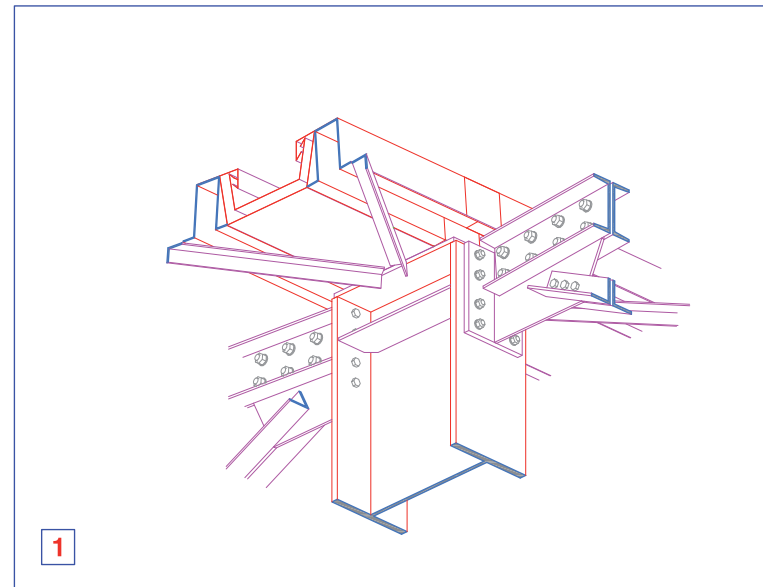
DRAWING
DESSIN **08b**

PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

C 04

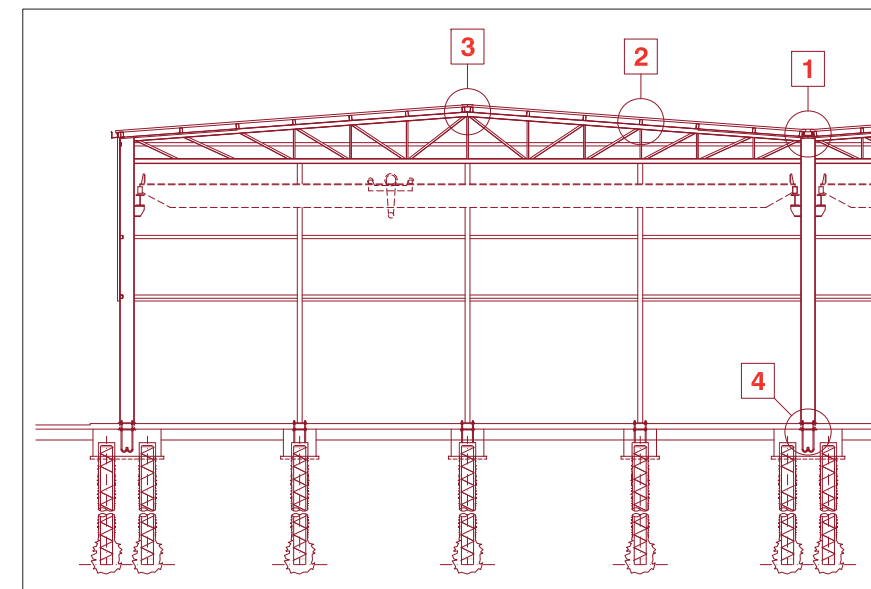




DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

A1

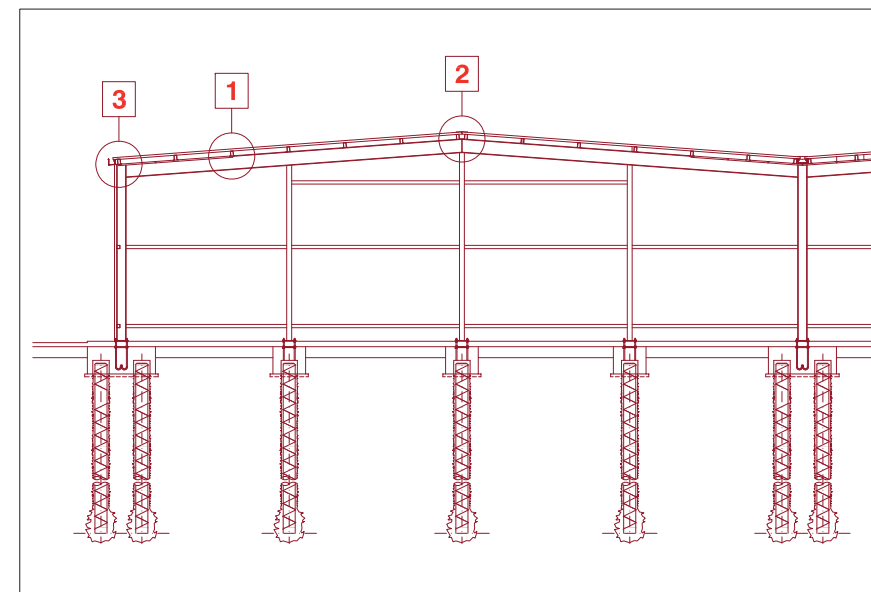
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

A

CDA

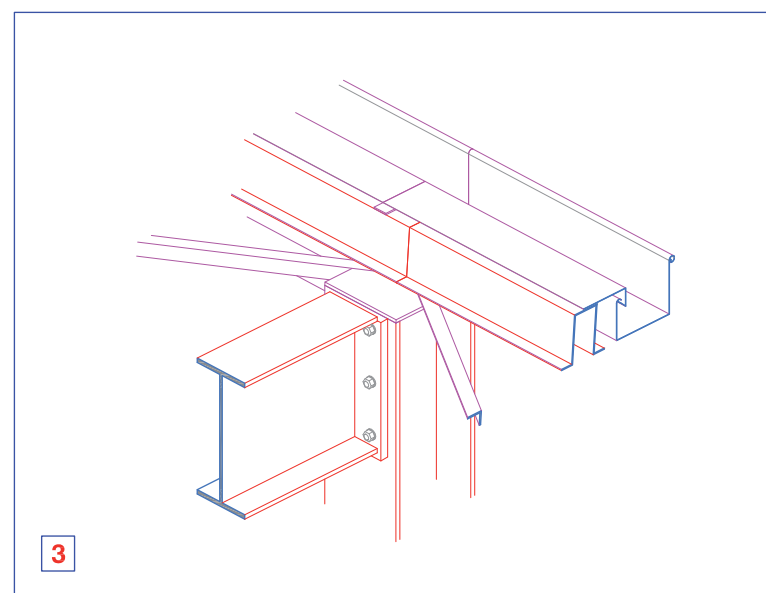
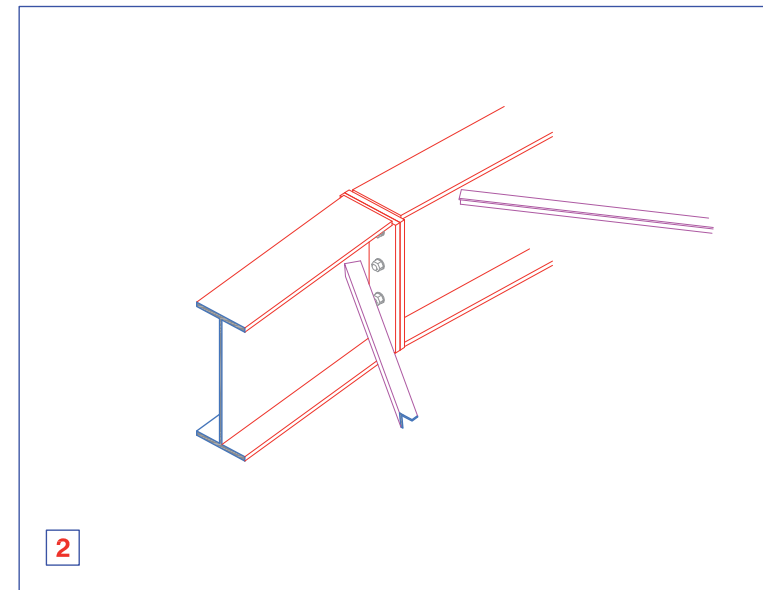
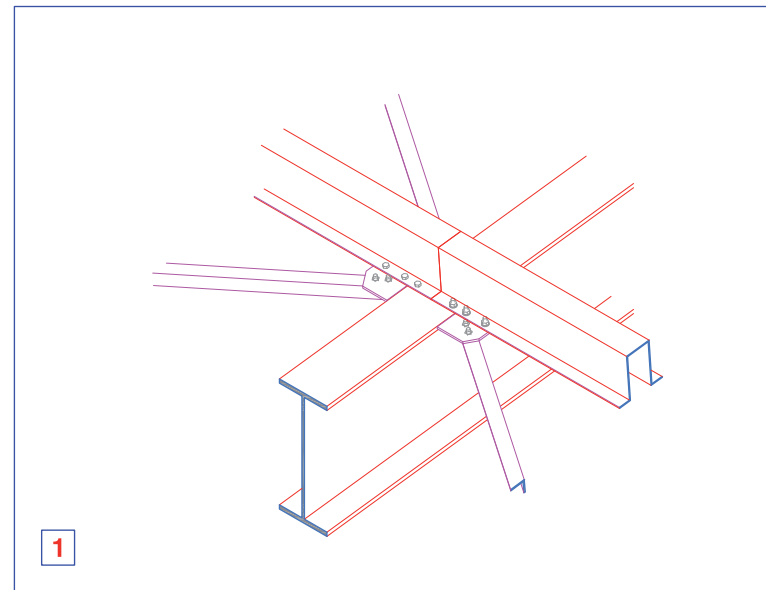


DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

B

CDA

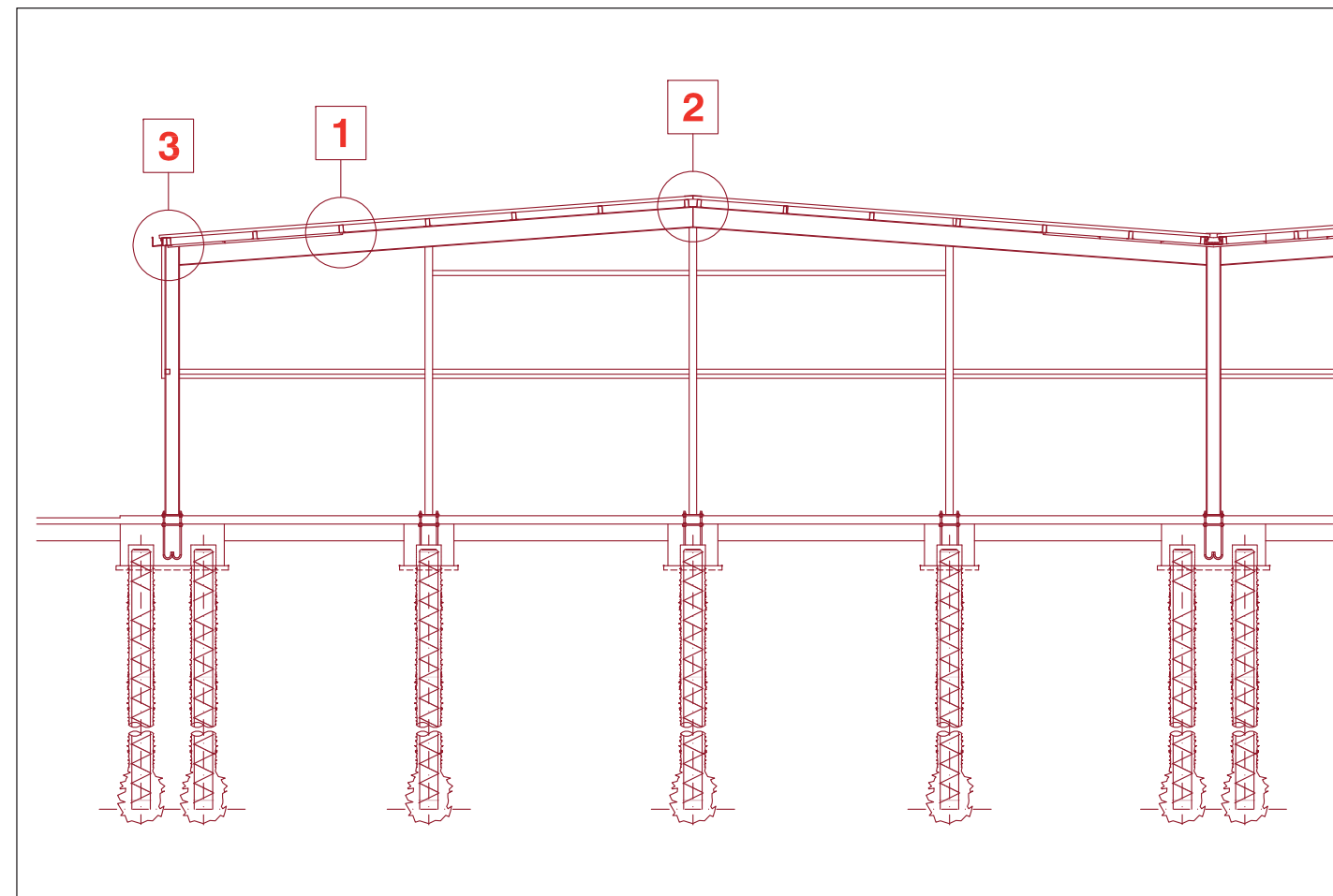




**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

C1

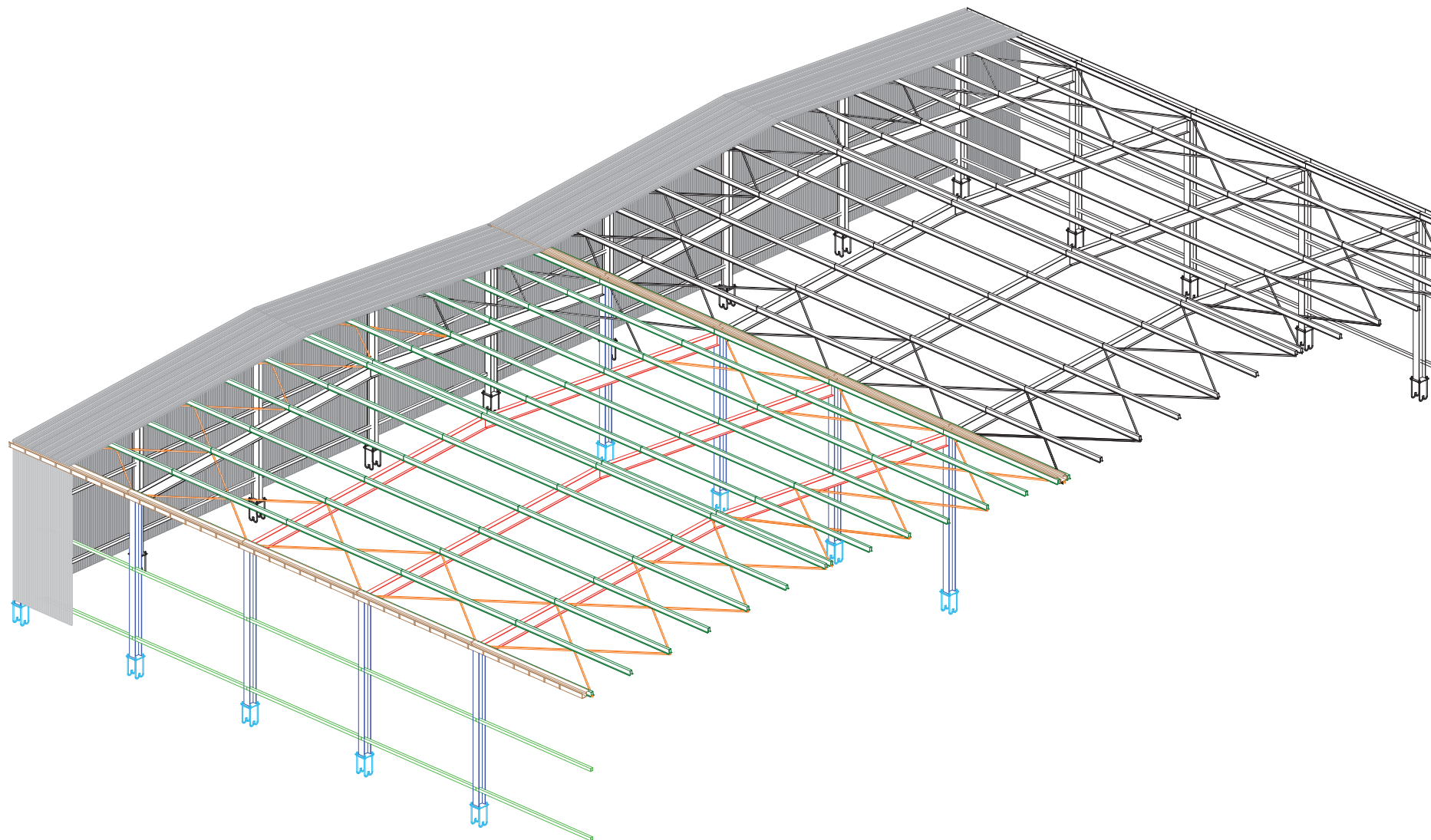
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

C

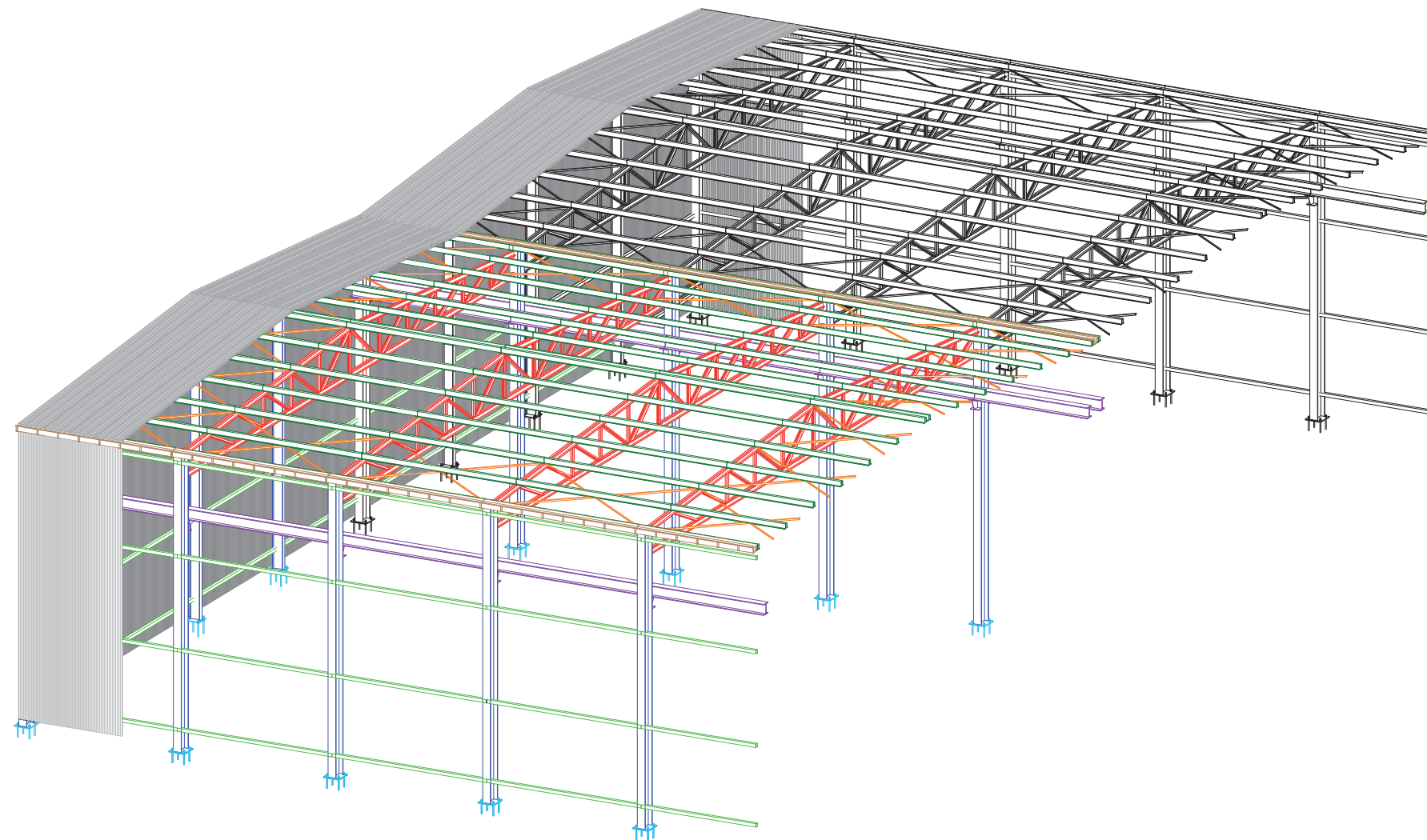
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

D

CDA

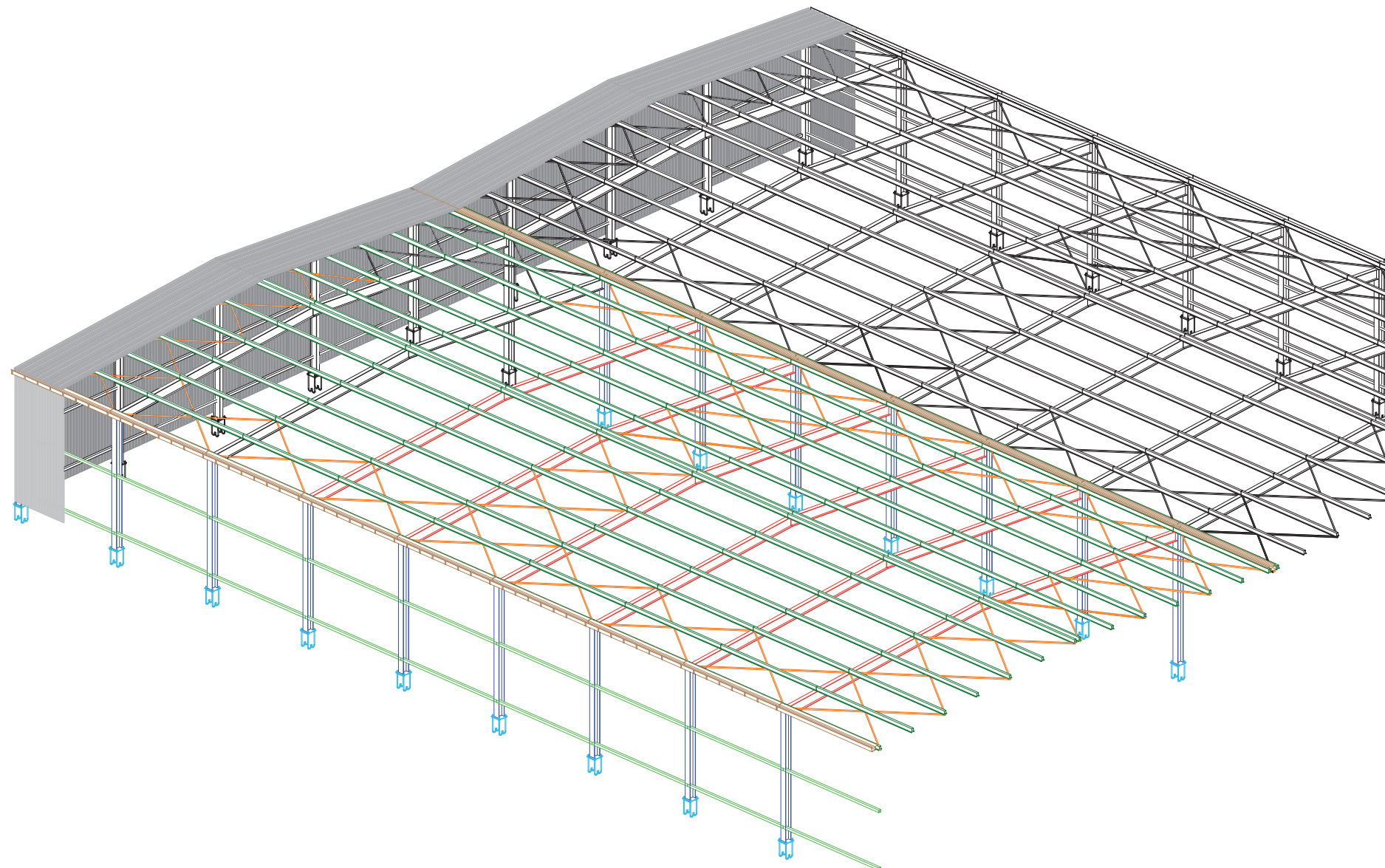


**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

E

CDA





DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

F

CDA

N.	CADICE ART.	DESCRIZIONE SINTETICA	UM	Q.TA'	PR. UN.	IMPORTO	CAPITOLO	%
SCAVI								
1	02.01.01a	Scavi a sezione obbligata, etc.	mc.	1.443,90	11,44	16.518,26		
2	02.02.01a	Reinterri , etc.	mc.	1.506,41	6,14	9.249,38		
3	02.02.03b	Fornitura, stesa e cindratura, etc.	mc.	10.526,70	18,59	195.691,35		
				TOTALE CAPITOLO		221.459,00	221.459,00	10,10
CALCESTRUZZI-ACCIAIO-CASSERI								
4	03.01.09a	Calcestruzzo per magroni, etc.	mc.	148,06	75,07	11.115,16		
5	03.01.10c	Calcestruzzo in fondazione, etc.	mc.	495,58	94,36	46.763,31		
6	12.01.01	Additivo antilermili	kg.	11.270,08	5,00	56.350,38		
7	03.04.01b	Acciaio FeB44K	kg.	29.735,04	1,08	32.113,84		
8	3.04.02	Rete elettrosaldata, etc.	kg.	277.203,10	1,32	365.908,09		
9	03.01.11a	Casselfornli in legno, etc.	mq.	359,84	21,69	7.804,93		
				TOTALE CAPITOLO		520.055,72	520.055,72	23,73
PAVIMENTI E RIVESTIMENTI								
10	12.01.04a	Pavimento industriale	mq.	35.089,00	28,40	996.527,60		
11	12.01.04b	Trattamento antipolvere, etc.	mq.	35.089,00	3,46	121.407,94		
				TOTALE CAPITOLO		1.117.935,54	1.117.935,54	51,01
CANCELLI								
12	12.01.11	Cancelli scorrevoli in ferro, etc compresa automazione	kg.	8.386,40	3,00	25.159,20		
				TOTALE CAPITOLO		25.159,20	25.159,20	1,15
SISTEMAZIONE AREE VERDI								
13	14.01.01	Stesa e modellazione terra di coltiva, etc	mc.	10.889,00	26,25	285.836,25		
14	14.01.02	Atatura meccanica, etc.	mq.	10.889,00	0,315	3.430,04		
15	14.01.03	Vangatura meccanica, etc.	mq.	10.889,00	0,222	2.417,36		
16	14.01.04	Messa a dimora piante, etc.	cad.	90	100,00	9.000,00		
17	14.01.05	Formazione di prato, etc. compreso seme	mq.	1.813,00	3,00	5.439,00		
18	14.01.06	Concimazione piante, etc.	cad.	90	0,60	54,00		
19	14.01.07	Concimazione prato, etc.	mq.	1.813,00	0,52	942,76		
				TOTALE CAPITOLO		307.119,40	307.119,40	14,01
				TOTALE LAVORI		2.191.728,86	2.191.728,86	100

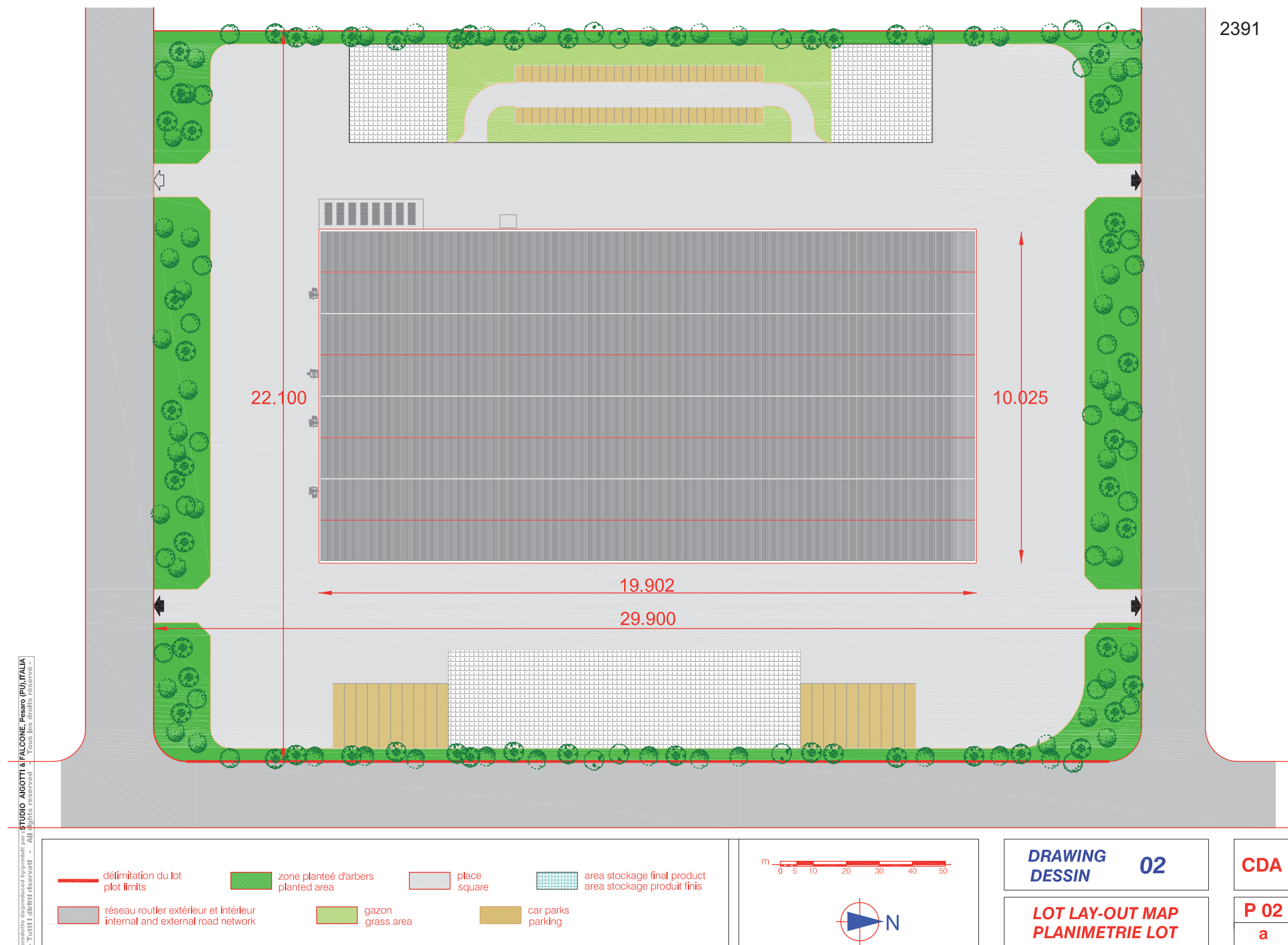
QUADRO RIEPILOGATIVO		AMUT
COSTO TOTALE	Euro	2.191.728,86
TOTALE AREE ESTERNE	mq.	45.978,00
COSTO MEDIO	Euro/m	47,67

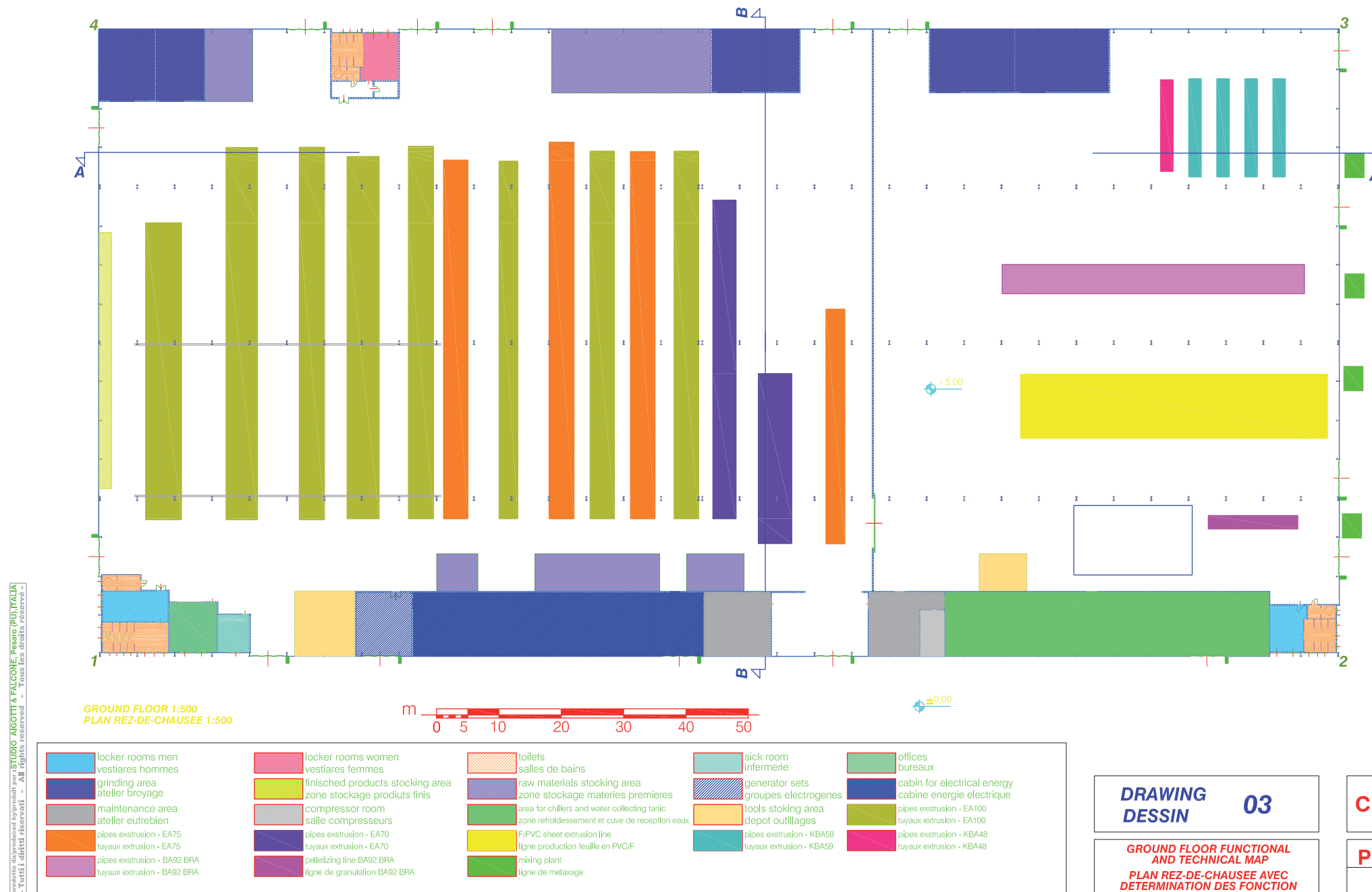


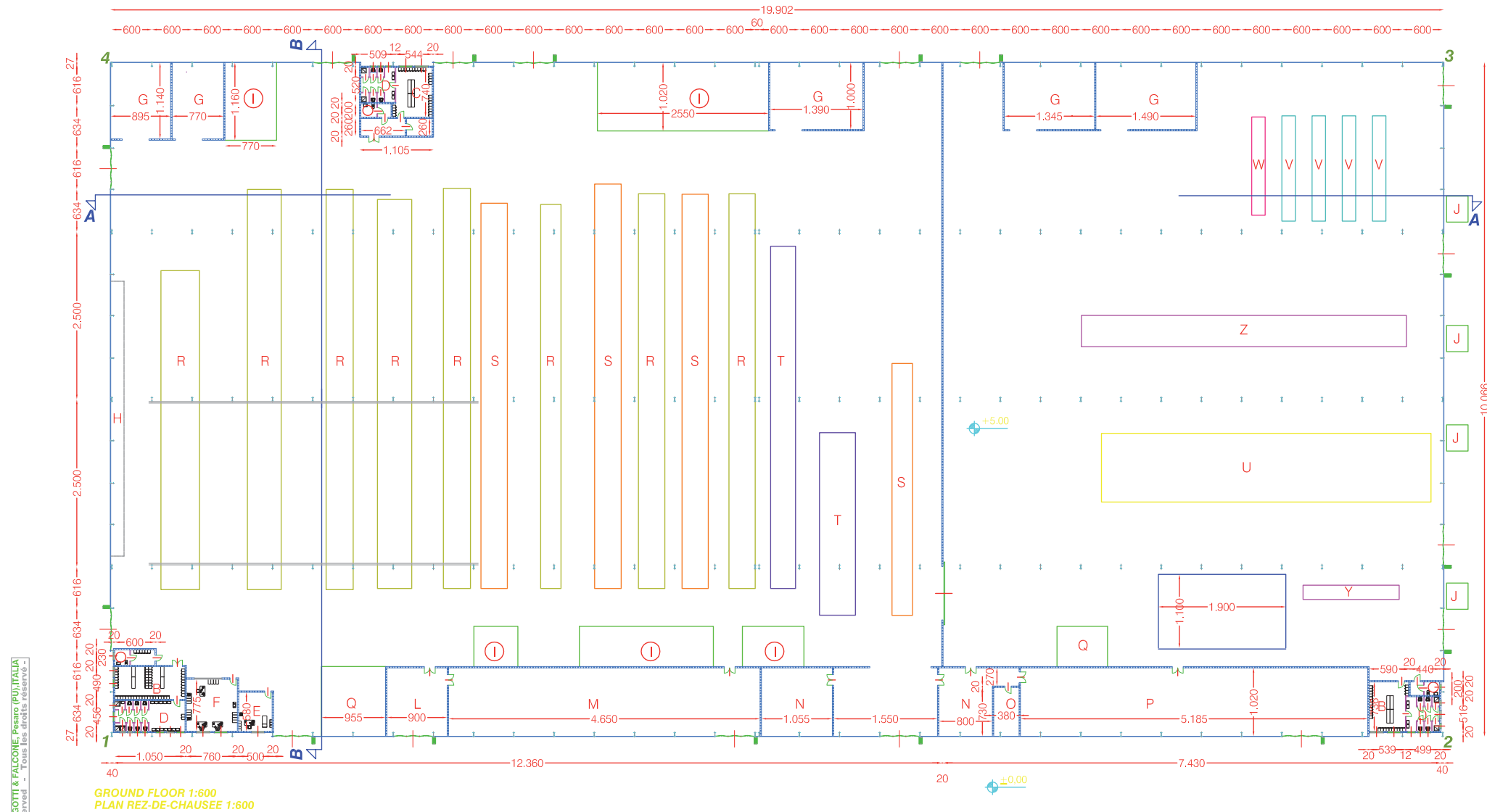
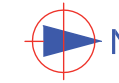
STIMA DEI LAVORI									
N. ART.	CODICE	DESCRIZIONE SINTETICA	U.M	Q.TA'	PR. UN. EURO	IMPORTO EURO	CAPITOLO	%	
SCAVI									
1	02.01.01a	Scavi a sezione aperta, etc..	mc.	10.167,02	6,00	61.002,10			
2	02.01.05.a	Scavi a sezione obbligata, etc.	mc.	14.690,60	11,44	168.060,42			
3	02.02.01a	Reinterri , etc.	mc.	8.598,18	6,14	52.792,84			
4	03.01.01d	Palo trivellato	ml.	12.600,00	82,92	1.044.792,00			
5	02.02.03b	Fornitura, stesa e clindratura, etc..	mc.	6.010,01	18,59	111.726,01			
				TOTALE CAPITOLO		1.438.373,36	1.438.373,36	36,07	
CALCESTRUZZI-ACCIAIO-CASSERI									
6	03.01.09a	Calcestruzzo per magroni, etc..	mc.	1.802,08	75,07	135.282,48			
7	03.01.10c	Calcestruzzo in fondazione, etc..	mc.	4.359,92	94,36	411.402,05			
8	12.01.01	Additivo antirermiiti	kg.	1.339,25	5,00	6.696,25			
9	03.04.01b	Acciaio FeB44k	kg.	561.737,00	1,08	628.275,96			
10	3.04.02	Rete elettrosaldata, etc.	kg.	100.166,77	1,32	132.220,13			
11	12.01.02	Ferri a U, chiusura pannelli, etc.	Kg.	0,00	2,00	0,00			
12	03.01.11a	Casseformi in legno, etc.	mq.	10.928,61	21,69	237.041,51			
				TOTALE CAPITOLO		1.550.918,37	1.550.918,37	38,90	
MURATURE-TAVOLATI-DIVISIONI INTERNE									
13	05.01.09b	Muratura in blocchi di cis, spess. 15 cm etc..	mq.	154,00	21,04	3.240,16			
14	05.01.09c	Muratura in blocchi di cis, spess. 20 cm etc..	mq.	2.472,80	22,38	55.341,26			
15	05.01.09.d	Muratura in blocchi di cis, spess. 25 cm etc..	mc.	0,00	186,14	0,00			
				TOTALE CAPITOLO		58.581,42	58.581,42	1,47	
INTONACI									
16	07.01.02c	Intonaco rustico, su pareti in forati	mq.	380,35	17,56	6.678,95			
17	07.01.03c	Intonaco a civile	mq.	2.400,45	18,74	44.984,43			
				TOTALE CAPITOLO		51.663,38	51.663,38	1,30	
VESPAI									
18	12.01.03	Vespai con igloo, etc.	mq.	423,30	55,20	23.366,16			
				TOTALE CAPITOLO		23.366,16	23.366,16	0,59	
PAVIMENTI E RIVESTIMENTI									
19	12.01.04a	Pavimento industriale	mq.	20.033,35	28,40	568.947,23			
20	12.01.04b	Trattamento antipolvere, etc.	mq.	20.033,35	3,46	69.315,40			
21	3.02.10	Sottofondi, etc..	mq.	423,30	11,75	4.973,78			
22	08.01.18d	Piastrelle in gres, etc..	mq.	803,65	25,00	20.091,25			
23	07.02.03b	Controsoffitto, etc..	mq.	423,30	32,48	13.748,78			
				TOTALE CAPITOLO		677.076,44	677.076,44	16,98	



PORTE E PORTONI						
24	09.01.04a	Bussola in legno, etc.	mq.	66,15	100,00	6.615,00
25	12.01.05	Portone a libro, etc.	mq.	33,60	350,00	11.760,00
26	12.01.06	Portone ad impacchietamento, etc	mq.	410,40	200,00	82.080,00
27	12.01.07	Portone sezionale, etc..	mq.	36,00	180,00	6.480,00
28	12.01.08	Portoncini di ingresso, etc.	cad.	0,00	560,00	0,00
29	12.01.09	Serramenti esterni e vetrate	mq.	54,45	300,00	16.335,00
		TOTALE CAPITOLI			123.270,00	3.09
STRUTTURA METALLICA						
30	12.01.11	Pilastro HEA, etc	kg.		3,00	0,00
31	12.01.11	Travi orizzontali	kg.		3,00	0,00
32	12.01.11	Diagonali di facciata doppio	kg.		3,00	0,00
33	12.01.11	Verticali di facciata	kg.		3,00	0,00
34	12.01.11	Travate reticolari in copertura dir mod. min.	kg.		3,00	0,00
35	12.01.11	Travate reticolari in copertura dir mod. max.	kg.		3,00	0,00
36	12.01.11	Controventi in copertura	kg.		3,00	0,00
37	12.01.11	Orditura sostegno pannelli	kg.		3,00	0,00
38	13.01.09	Pannelli sandwich su pareti esterne	mq.		30,00	0,00
39	13.01.09	Pannelli sandwich per copertura	mq.		30,00	0,00
40	13.01.10	Lastre trasparenti in vetroresina, etc..	mq.		28,20	0,00
41	13.01.11	Ondulina in vetroresina, etc.	mq.		13,20	0,00
42	13.01.12	Scossaline di coronamento, etc	mq.		14,80	0,00
		TOTALE CAPITOLO			0,00	0,00
VARIE						
43	12.01.10	Scale in ferro	cad.	3,00	10.000,00	30.000,00
		TOTALE CAPITOLO			30.000,00	0,75
ASSISTENZE MURARIE						
44	13.01.15	Assistenza struttura, etc..	cad.	170,00	200,00	34.000,00
		TOTALE CAPITOLO			34.000,00	0,85
		TOTALE LAVORI			3.987.249,14	100
QUADRO RIEPILOGATIVO						
COSTO CAPANNONE		Euro	3.987.249,14			
SUPERFICIE CAPANNONE		m ² .	20.033,35			
COSTO MEDIO		Euro/m ² .	199,03			







B locker rooms men vestiaires hommes	C locker rooms women vestiaires femmes	D toilets salles de bains	E sick room infirmierie	F offices bureaux
G grinding area atelier broyage	H finished products stocking area zone stockage produits finis	I raw materials stocking area zone stockage materies premieres	L generator sets groupes electrogenes	M cabin for electrical energy cabine energie electrique
N maintenance area atelier eutretien	O compressor room salle compresseurs	P area for chillers and water collecting tank zone refroidissement et cuve de reception eaux	Q tools stoking area depot outillages	R pipes extrusion - EA100 tuyaux extrusion - EA100
S pipes extrusion - EA75 tuyaux extrusion - EA75	T pipes extrusion - EA70 tuyaux extrusion - EA70	U F/PVC sheet extrusion line ligne production feuille en PVC/F	V pipes extrusion - KBA59 tuyaux extrusion - KBA59	W pipes extrusion - KBA48 tuyaux extrusion - KBA48
Z pipes extrusion - BA92 BRA tuyaux extrusion - BA92 BRA	Y pelletizing line BA92 BRA ligne de granulation BA92 BRA	J mixing plant ligne de melaxage		

**DRAWING
DESSIN**

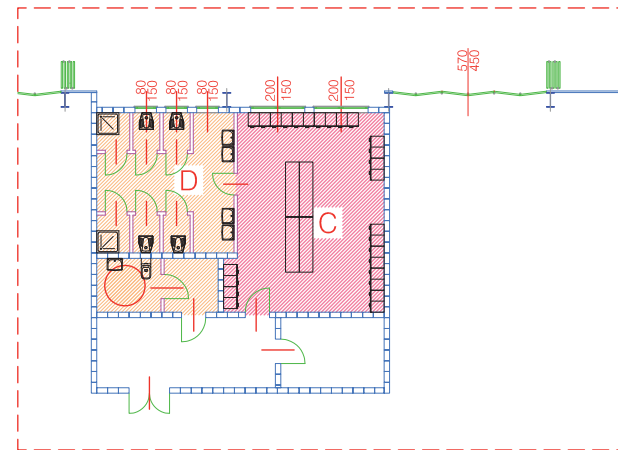
03A

**GROUND FLOOR FUNCTIONAL
AND TECHNICAL MAP
PLAN REZ-DE-CHAUSEE AVEC
DETERMINATION DES FONCTION**

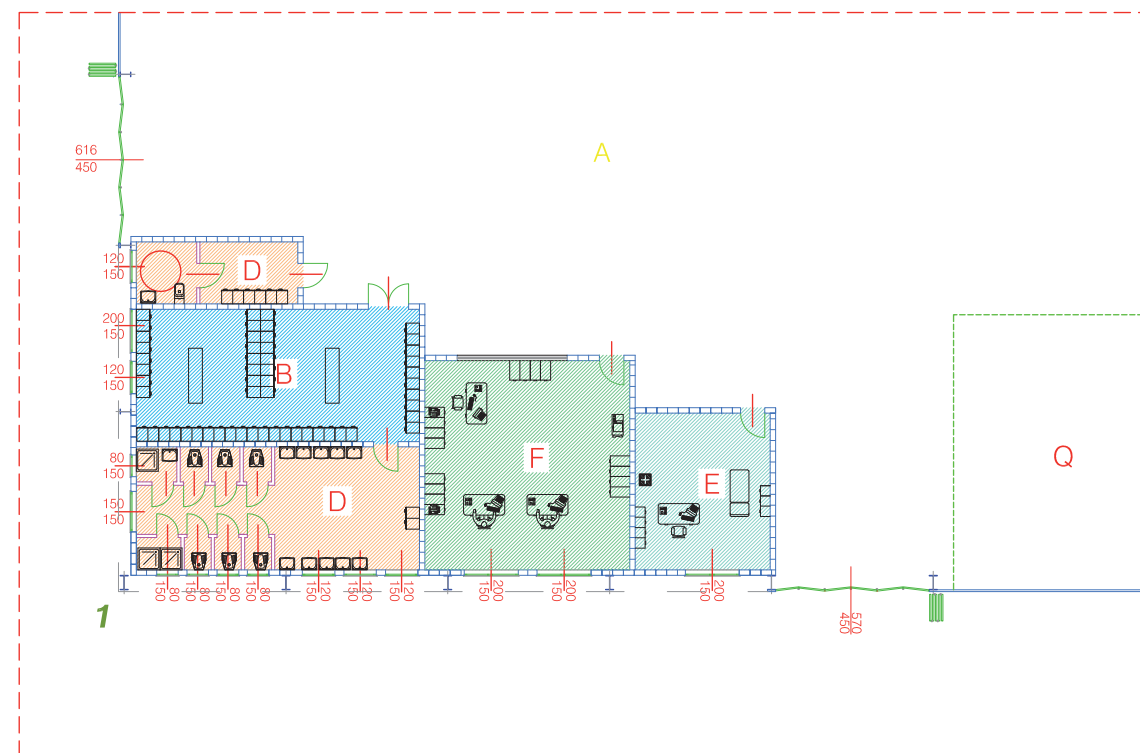
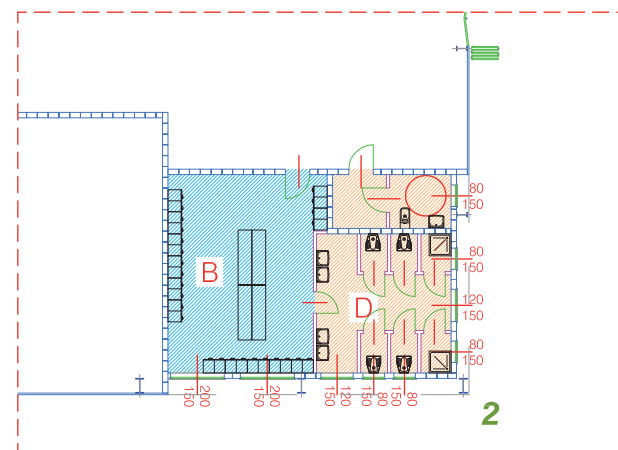
CDA

P 02



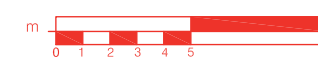


GROUND FLOOR 1:200
PLAN REZ-DE-CHAUSEE 1:200



prodotto da: Studio Argotti & Falcone, Pesaro (PU), Italia
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B	locker rooms-men vestiaires-hommes	C	locker rooms-women vestiaires-femmes	D	wc toilettes	E	first aid premiere secours
F	office bureau						



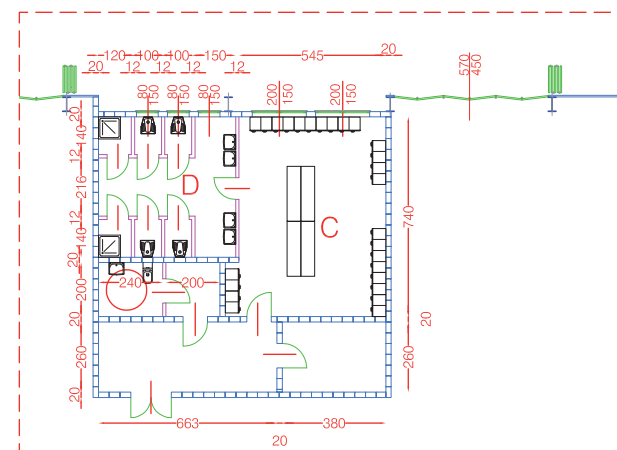
DRAWING
DESSIN **04**

DIMENSIONAL TECHNICAL
GENERAL SERVICES MAP
PLAN SERVICES GENERAL
TECHNIQUE DIMENSIONNEL

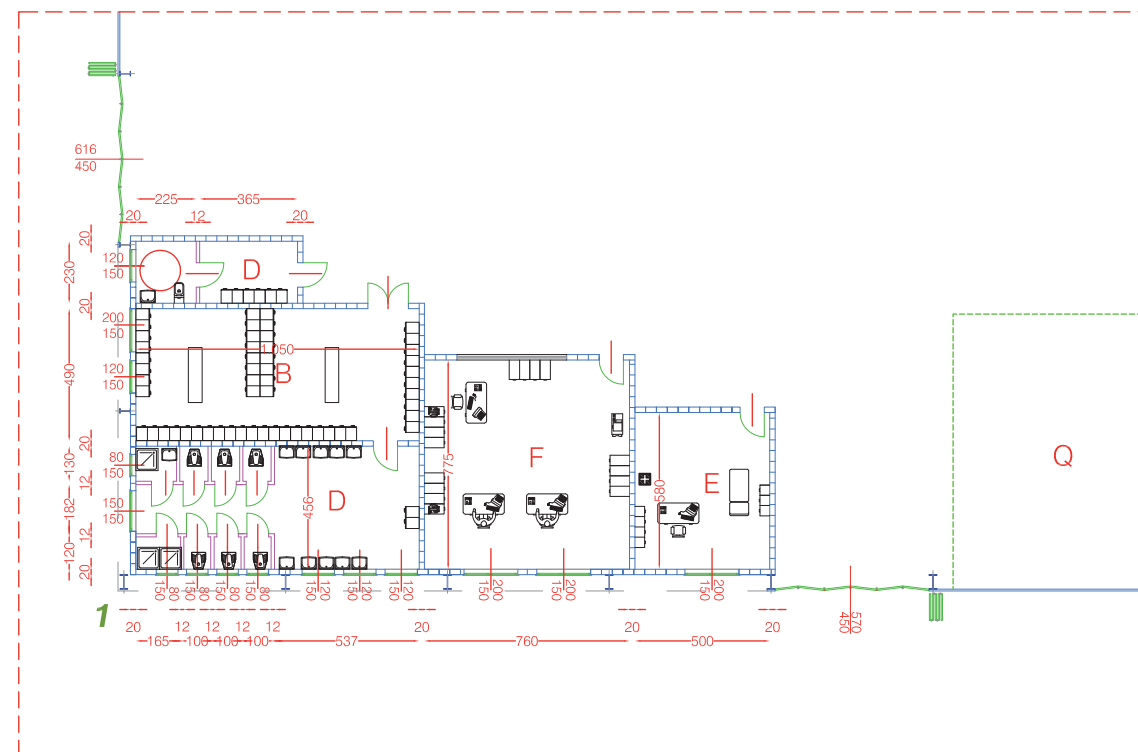
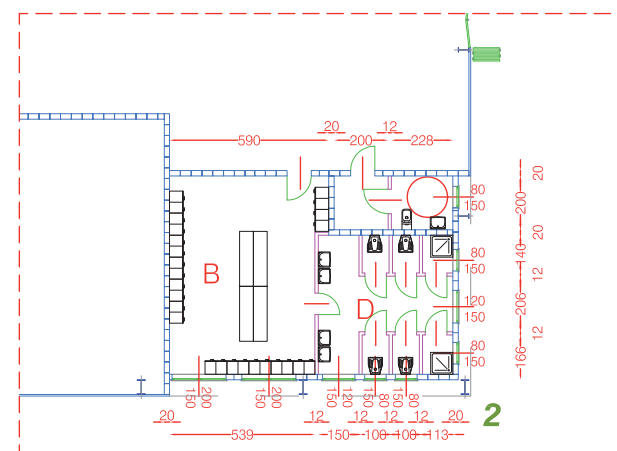
CDA

P 02
a





GROUND FLOOR 1:200
PLAN REZ-DE-CHAUSEE 1:200



- | | | | |
|--|--|--------------------------|--|
| B locker rooms-men
vestiaires-hommes | C locker rooms-women
vestiaires-femmes | D wc
toilettes | E first aid
premiere secours |
| F office
bureau | | | |



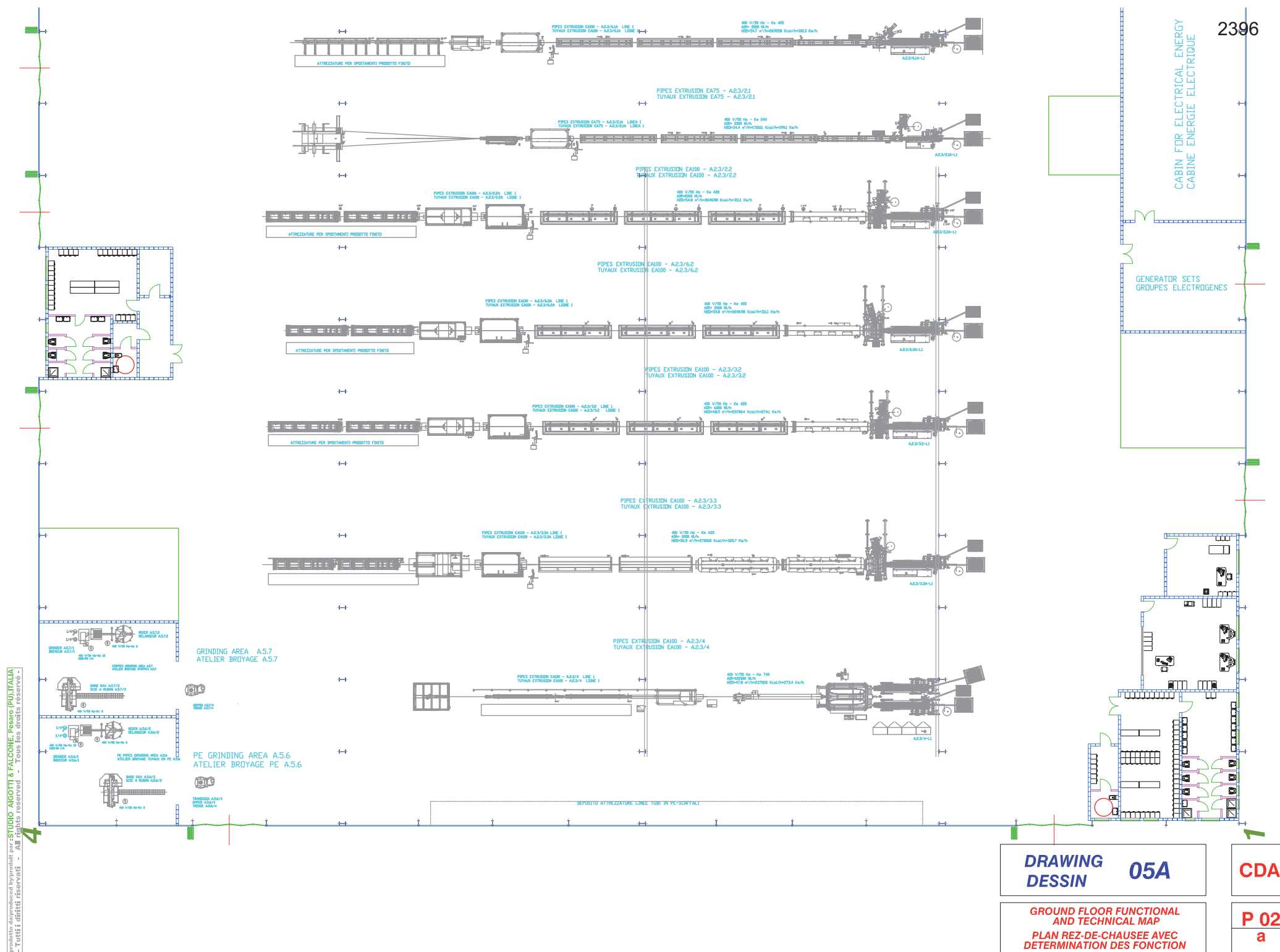
DRAWING
DESSIN **04A**

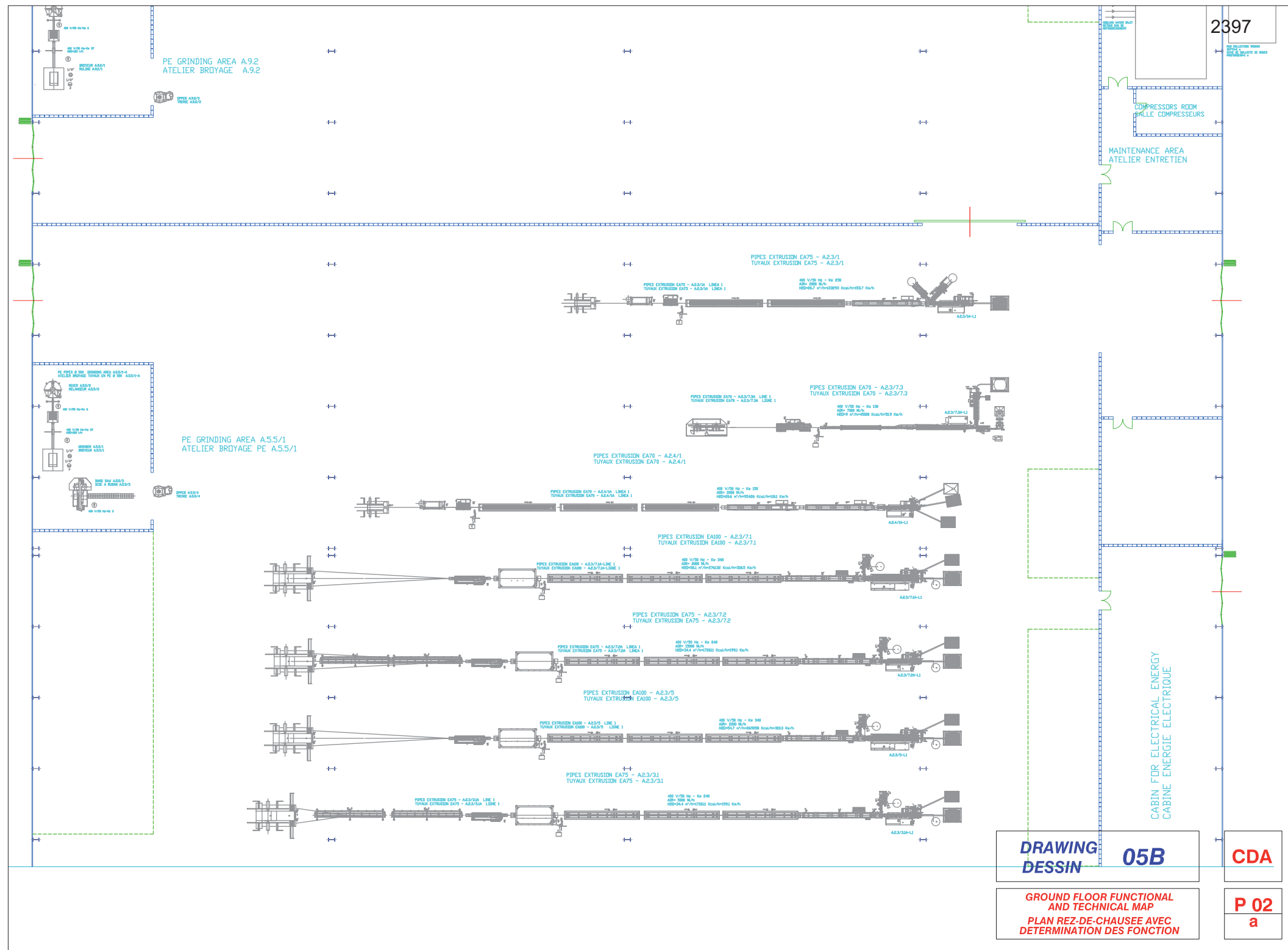
GENERAL SERVICES MAP
WITH AREA FUNCTION
PLAN REZ-DE-CHAUSEE
AVEC DETERMINATION DE FUNCTION

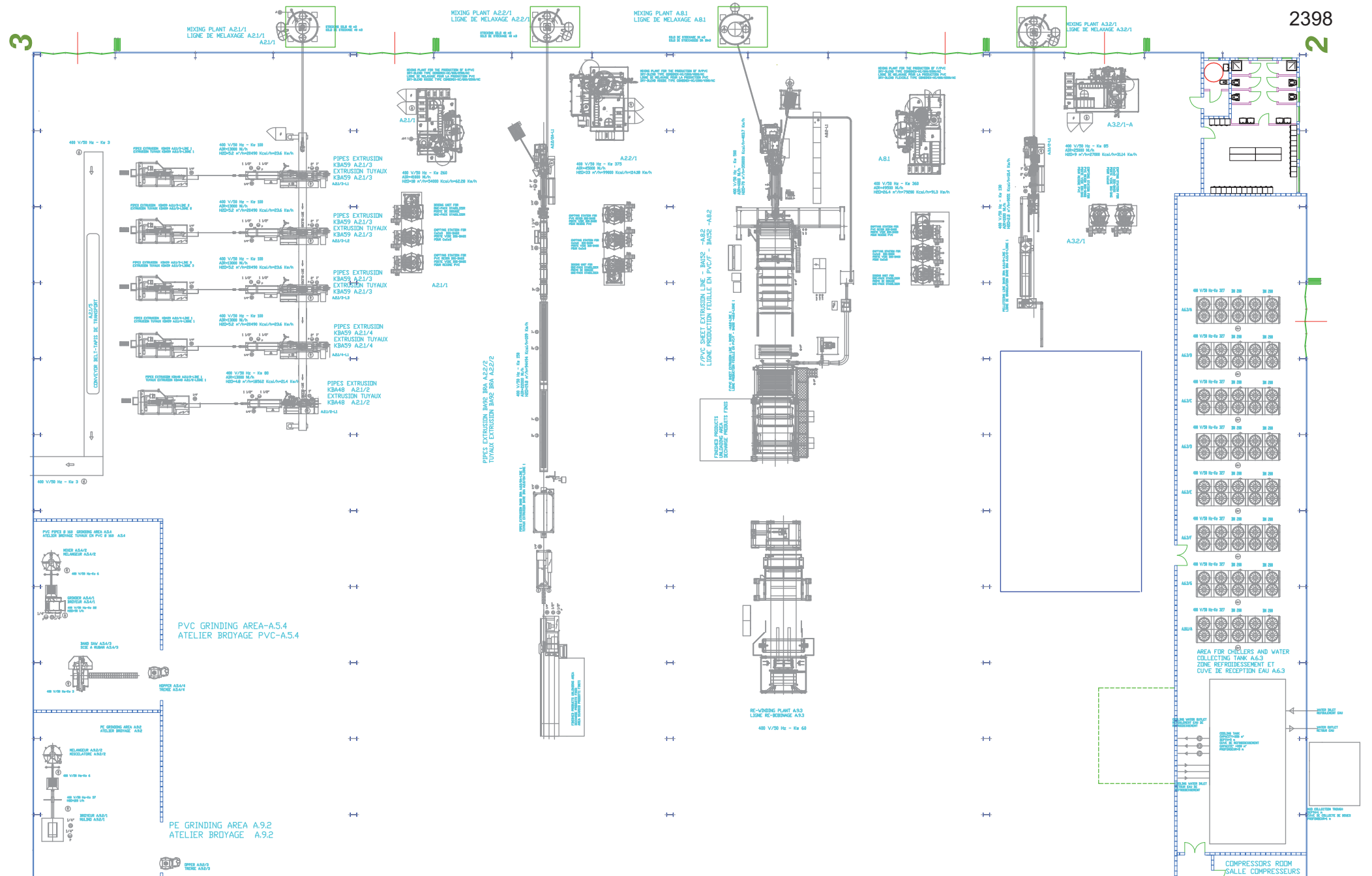
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P 02
a









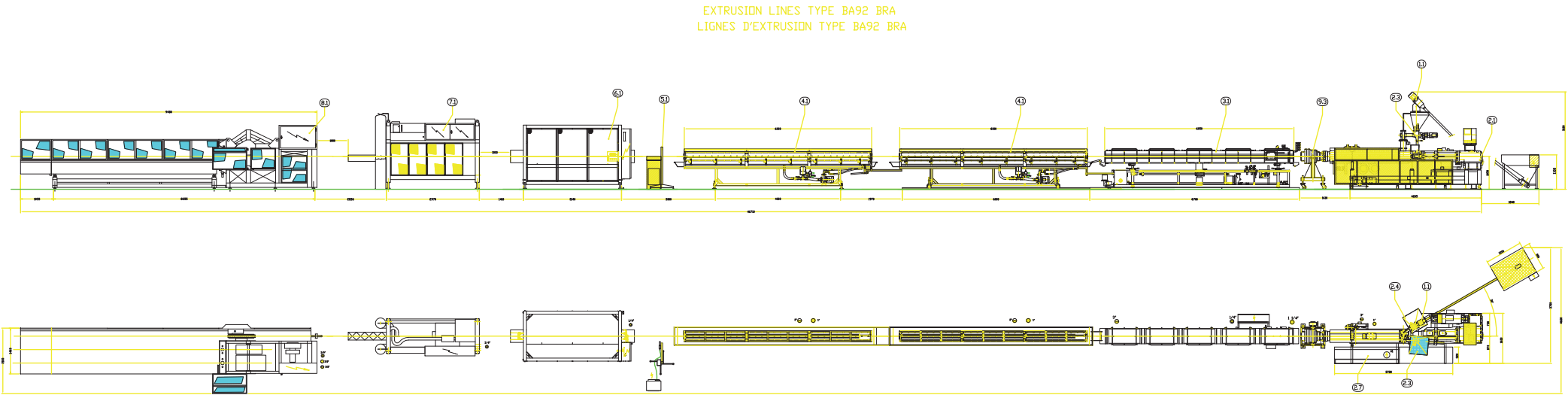
**DRAWING
DESSIN** **05C**

**GROUND FLOOR FUNCTIONAL
AND TECHNICAL MAP
PLAN REZ-DE-CHAUSEE AVEC
DETERMINATION DES FONCTION**

CDA

**P 02
a**





PIPES EXTRUSION PLANT
LIGNE PRODUCTION TUYAUX

prodotto e distribuito per studio AUGOTTI & FALCONE Pesaro (PU) ITALIA
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   	Compressed air (filtered and not lubricated)	22000 NI/h	1.1	SPIRAL FLEXIBLE CONVEYOR FOR SCRAP	(CTMA1/SP)	4.1	COOLING TUNNEL	(TURES/16)
	Air compressed (filtered and not lubricated)		2.1	TRANSPORTEUR FLEXIBLE A SPIRALE POUR DECHETS	(NDBRA)	5.1	PRINTING UNIT	(MARK/JETSD)
	Loading water backflow at atmospheric pressure		2.3	BA92/200 TWIN SCREW EXTRUDER	(DOSES)	6.1	HAUL-OFF UNIT	(P160/3E)
	Return water of recirculation at pressure		2.4	EXTRUDEUSE DOUBLE VIS MOD. BA92/200	(DOSES)	7.1	GROUP DE TIRAGE	(TRS/C25-160)
	Loading water delivery		2.7	DRY-BLEND FEEDER	(QUADRO-R)	8.1	PLANETARY CUTTER	(BA/NSP/1732-200)
	Recirculation water of recirculation	19.8 m ³ /h=94494 kcal/h=109 kw/h	3.1	ROSEUR POUR DRY-BLEND	(TUSCA/16-V)	9.3	EXTRUSION HEAD	(TEAT4)
				SCRAP FEEDER			TETE D'EXTRUSION	
				ROSEUR POUR DECHETS				
				TEMPERATURE CONTROL CABINET				
				ARMOIRE CONTROLE TEMPERATURES				
				CALIBRATION TROUGH				
				BAC DE CALIBRAGE				

DRAWING
DESSIN

05D

CDA

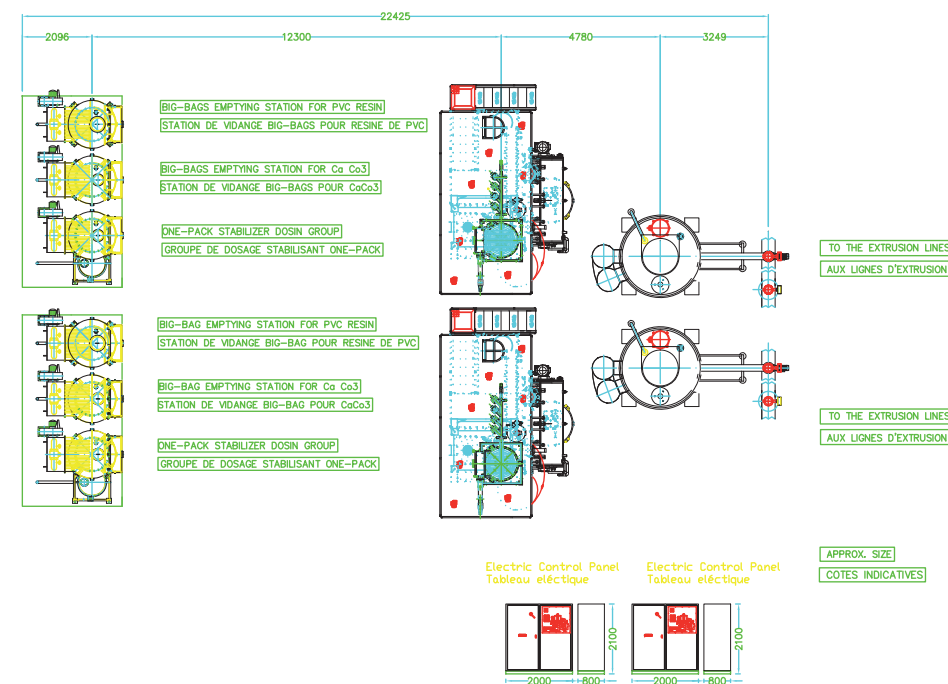
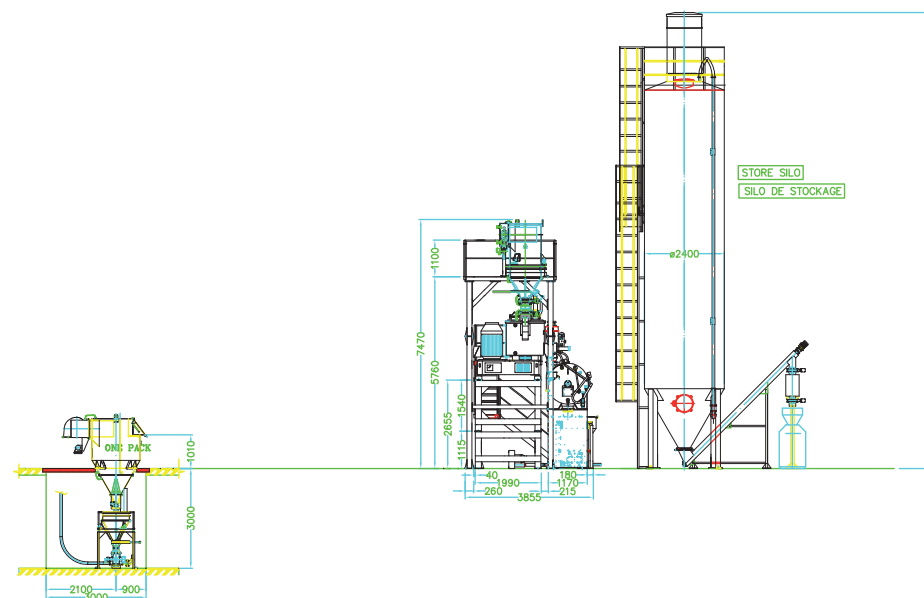
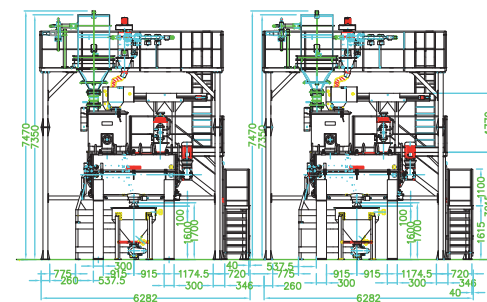
PRODUCTION LINE MAP
-DETAILS-
PLAN LIGNE DE FABRICATION
-DETAILLES-

P02
C



2400

MIXING PLANT FOR THE PRODUCTION OF RIGID PVC
 DRY-BLEND "COMBIMIX-HC/800/2500/AC"
 INSTALLATION DE MELANGE POUR LA PRODUCTION DE
 DRY-BLEND DE PVC RIGIDE "COMBIMIX-HC/800/2500/AC"



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**DRAWING
 DESSIN 05E**

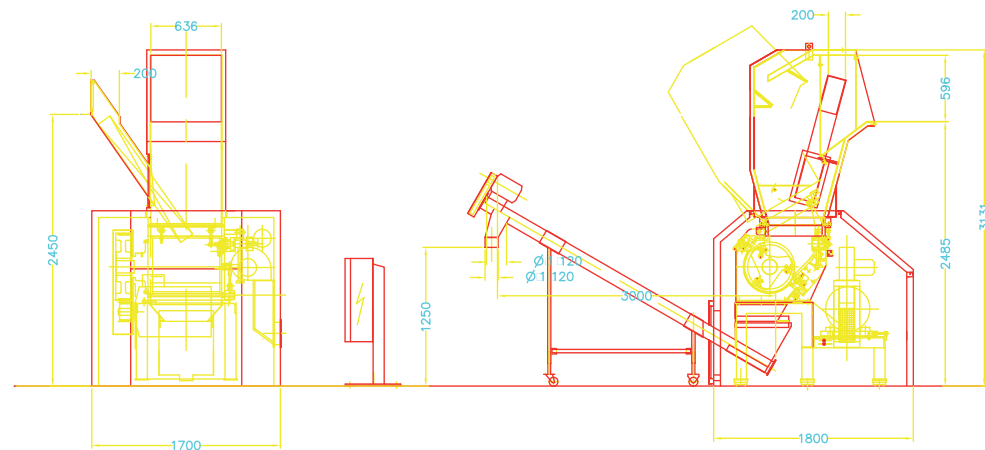
**PRODUCTION LINE MAP
 -DETAILS-
 PLAN LIGNE DE FABRICATION
 -DETAILLES-**

CDA

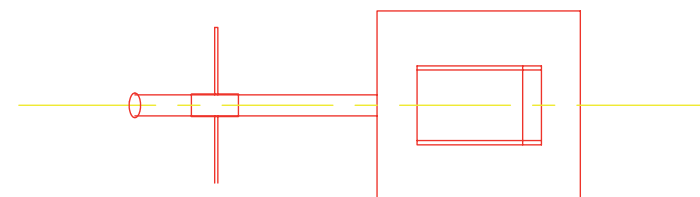
**P 02
 a**



*BROYEUR
GRINDER*

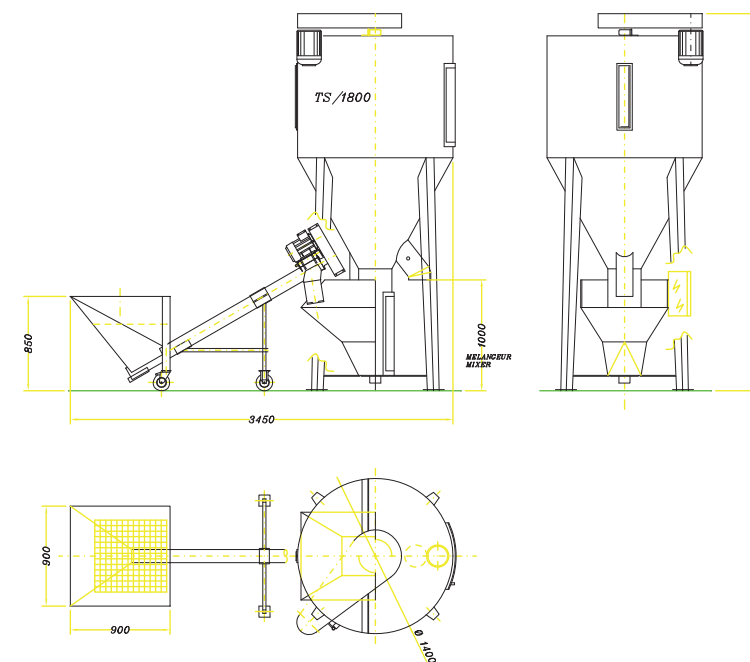


*PUISSANCE Kw 37
POWER*



*GRINDING AREA
ATELIER BROYAGE*

*PUISSANCE Kw 6
POWER*



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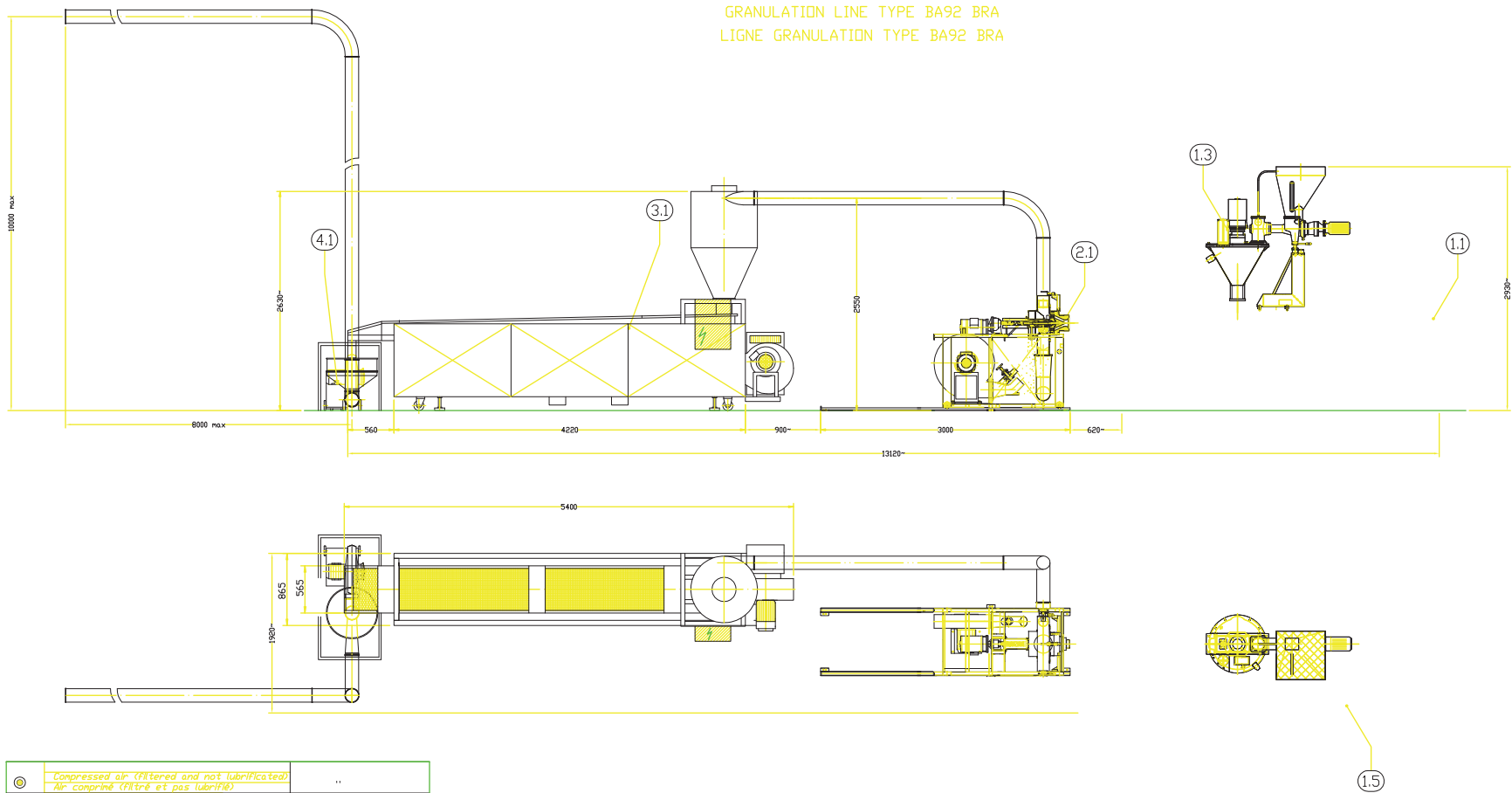
**DRAWING
DESSIN 05F**

CDA

**PRODUCTION LINES
DÉTAIL
LIGNE DE FABRICATION DÉTAILLES**

P 03





⊙	Compressed air (filtered and not lubricated) Air comprimé (filtré et pas lubrifié)	..																								
⊙	Cooling water backflow at atmospheric pressure Retour eau de refroidissement à pression atmosphérique																									
⊙P	Cooling water backflow in pressure Retour eau de refroidissement en pression																									
⊙	Cooling water delivery Refoulement eau de refroidissement																									
2.8 m ³ /h=9051 Kcal/h=10.4 Kw/h																										
NOTE: DIMENSIONS IN MILLIMETERS NOTE: LES DIMENSIONS SONT EN MILLIMETRES																										
<table><tr><th colspan="5">Volt 400/50 Hz</th></tr><tr><th>Pos.</th><th>Kw</th><th>A</th><th>Phases</th><th>Neutral / Ground</th></tr><tr><td rowspan="2">A1</td><td rowspan="2">130</td><td rowspan="3">.....</td><td>Phase</td><td>Neutre / Terre</td></tr><tr><td>Phase</td><td>Neutre / Terre</td></tr><tr><td>①</td><td colspan="4">Electric supply mains inlet Entrée ligne alimentation électrique</td></tr></table>					Volt 400/50 Hz					Pos.	Kw	A	Phases	Neutral / Ground	A1	130		Phase	Neutre / Terre	Phase	Neutre / Terre	①	Electric supply mains inlet Entrée ligne alimentation électrique			
Volt 400/50 Hz																										
Pos.	Kw	A	Phases	Neutral / Ground																						
A1	130		Phase	Neutre / Terre																						
			Phase	Neutre / Terre																						
①	Electric supply mains inlet Entrée ligne alimentation électrique																									

1.1 BA92/28D TWIN SCREW EXTRUDER
EXTRUDEUSE DOUBLE VIS MOD. BA92/28D

1.3 GRAMMER FEEDER
DISPOSITIF D'ALIMENTATION FORCEE

1.5 TEMPERATURE CONTROL CABINET
ARMOIRE CONTROLE TEMPERATURES

2.1 PELLETIZING HEAD
TÊTE DE GRANULATION

3.1 GRANULES COOLER
REFROIDISSEUR POUR GRANULES

4.1 PNEUMATIC TRANSPORT
TRANSPORT PNEUMATIQUE

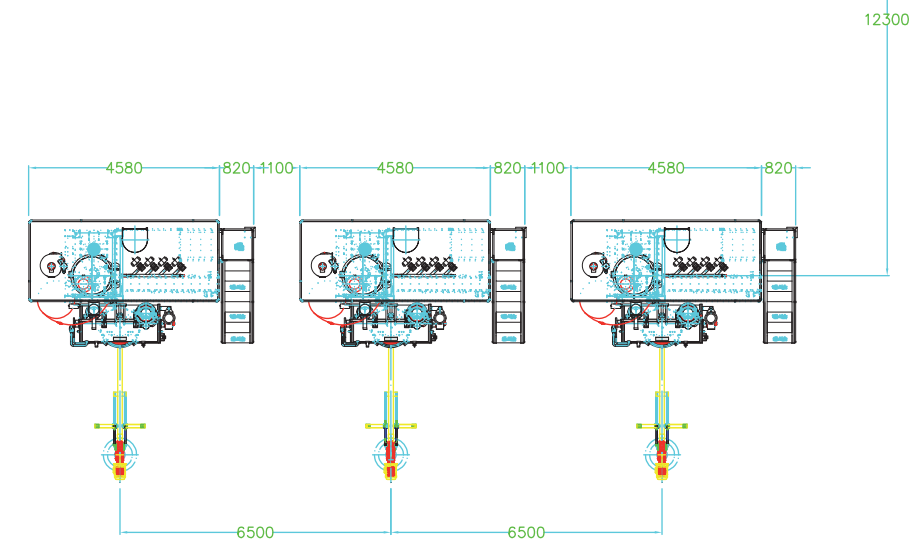
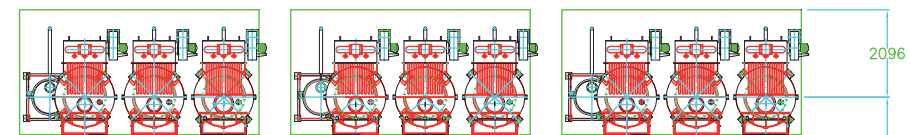
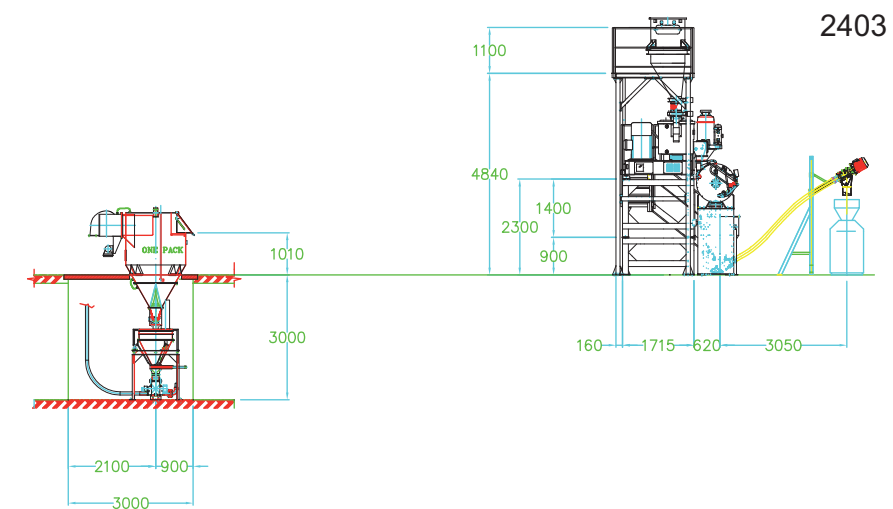
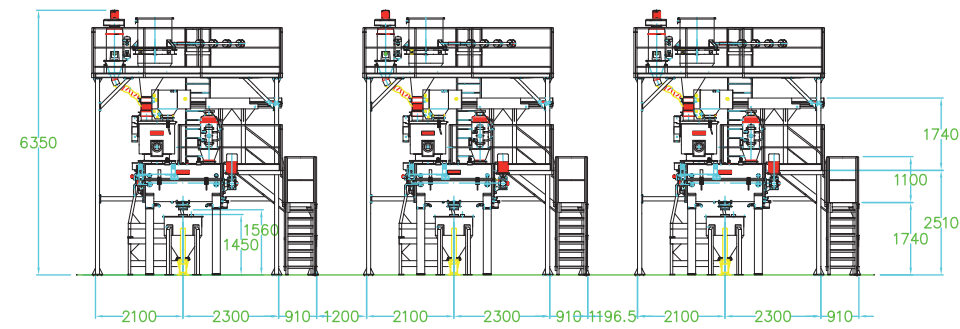
DRAWING
DESSIN 05G

PRODUCTION LINE MAP
-DETAILS-
PLAN LIGNE DE FABRICATION
-DETAILLES-

CDA

P02
d





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MIXING PLANTA
LIGNE DE MELAXAGE

DRAWING
DESSIN 05H

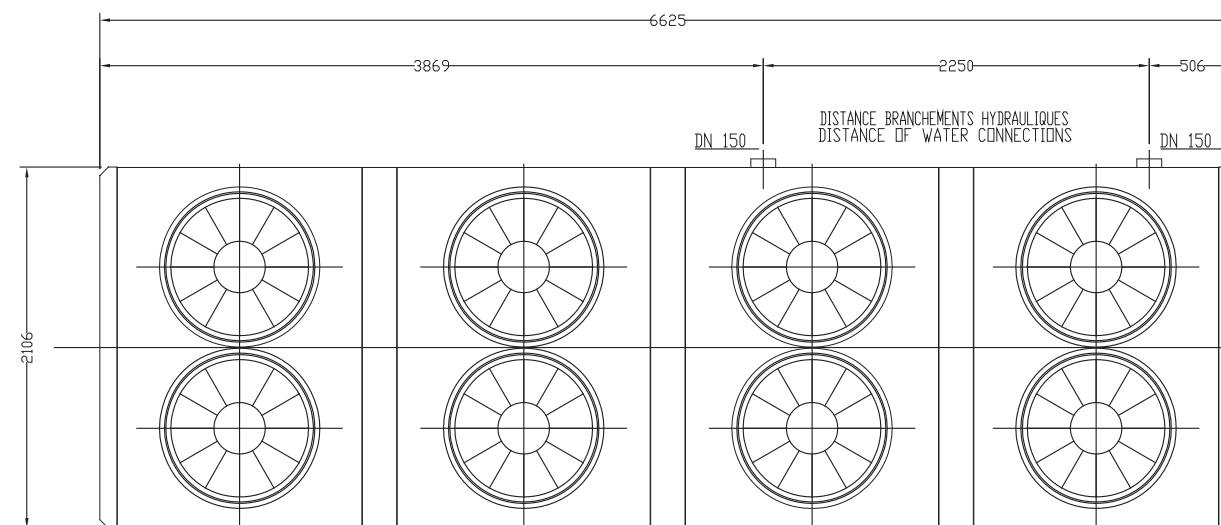
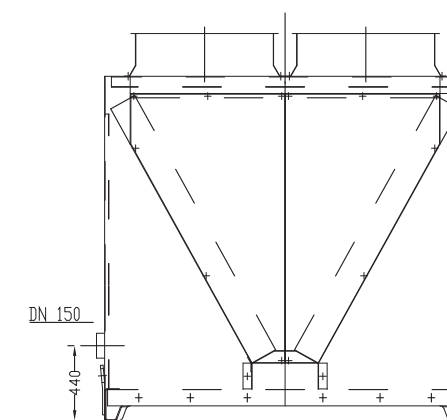
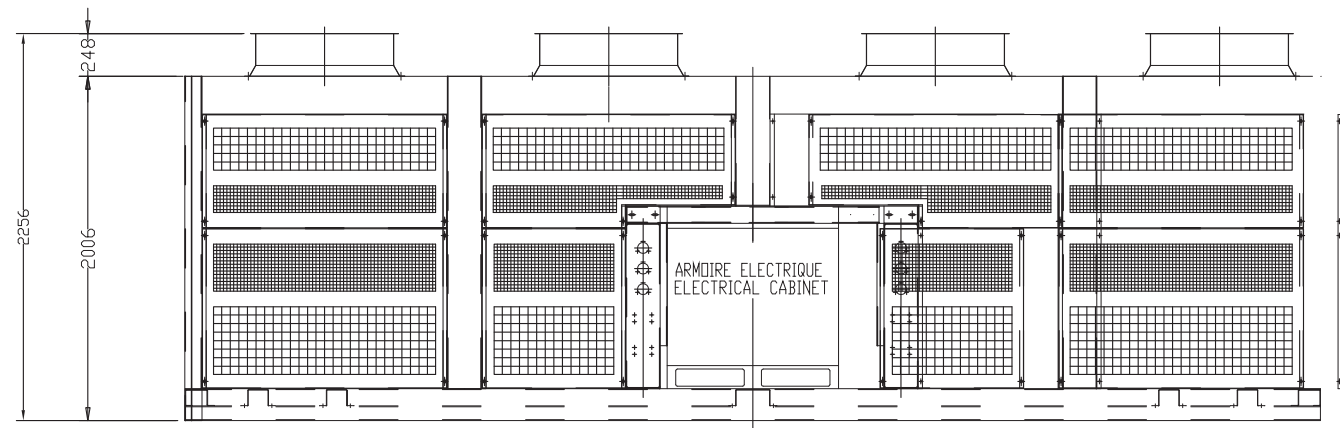
PRODUCTION LINE MAP
-DETAILS-
PLAN LIGNE DE FABRICATION
-DETAILLES-

CDA

P02
d



GRUPE A FROID
CHILLER



NOTE: DIMENSIONS IN MILLIMETERS
NOTE: LES DIMENSIONS SONT EN MILLIMETRES

POWER
PUISSANCE Kw 170
PUISSANCE INSTALLE Kw 243
INSTALLED POWER

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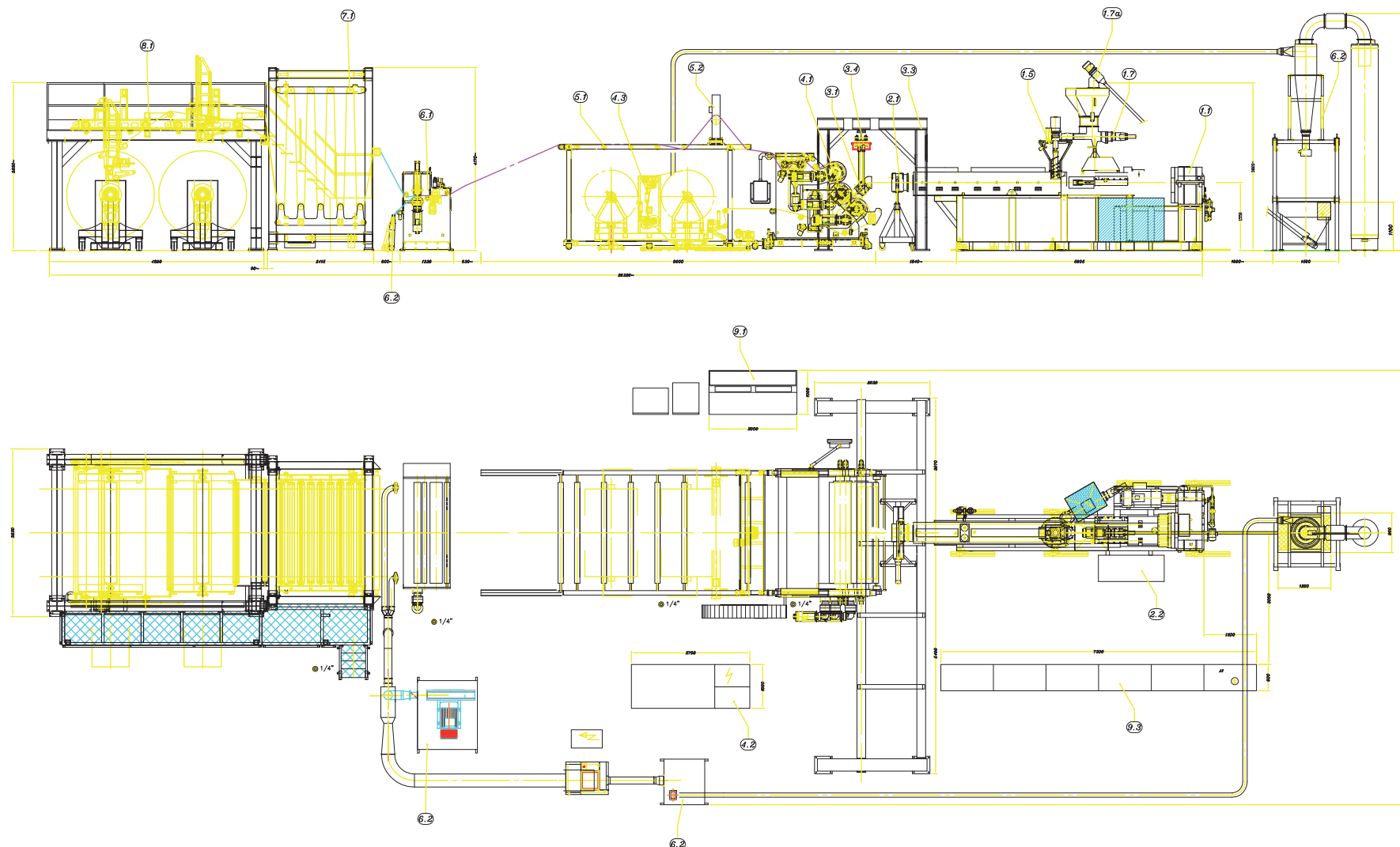
DRAWING
DESSIN **051**

CDA

PRODUCTION LINE MAP
-DETAILS-
PLAN LIGNE DE FABRICATION
-DETAILLES-

P 02
d





F/PVC SHEET EXTRUSION LINE
LIGNE PRODUCTION FEUILLE EN PVC/F

⊙	Compressed air (filtered and not lubricated) Air comprimé (filtré et pas lubrifié)	1000 NL/h
⊖	Cooling water backflow at atmospheric pressure Retour eau de refroidissement à pression atmosphérique	
⊖ _P	Cooling water backflow in pressure Retour eau de refroidissement en pression	
⊙	Cooling water delivery Refoulement eau de refroidissement	
	70 m ³ /h=350000 kcal/h=403.7 kW/h	

1.1	BAISSE/22B VIN SCREW EXTRUDER EXTRUSEUR DOUBLE VIS MDJ. BAISSE/22D	(DOZIN)	2.2	CONTROL UNIT FOR SCREEN CHANGER CENTRALE POUR CHANGEUR DE FILTRE	(CTR/180)	5.1	ROLL-WAY ROLL-WAY	(RU/LUF)	9.3	TEMPERATURE CONTROL CABINET ARMoire CONTROLE TEMPERATURES	(QUADRO-R)
1.3	SCREWS THERMOREGULATION UNIT CENTRALE DE CONDITIONNEMENT VIS	(TBMIS/162)	3.1	HORIZONTAL FLAT DIE TETE PLAIN HORIZONTAL	(LATOC)	5.2	THICKNESS MEASURING UNIT WALL-OFF UNIT	(MSPBSS)			
1.5	CRAMMER FEEDER ACCOUSSEMENT DE ALIMENTATION	(FOTRAIS2-SP)	3.3	SUPPORT ELEMENT HEAD STRUCTURE SOUTIEN TETE	(SUTES/C-SP)	6.1	MISUREUR DE PAISSEUR GROUPE DE TIRAGE	(TIROC)			
1.6	MATRIAL VIBRON 3A DAIER DOSER MATERIEL VIEJRE	(APMEL)	3.4	DISASSEMBLY BOSSIE HEAD CHARIOT DEMONTAGE TETE	(DIE/TROLLY)	6.2	CUTTING UNIT GROUPE DE COUPE	(RLPD/2300/S)			
1.7	SCRAPS FEEDER DOSEUR POUR RECHETS	(APMEL)	4.1	CALENDER CALANDRE	(LAKOC/PE)	7.1	ACCUMULATOR ACCUMULATEUR	(ACCD/2300/15)			
1.7a	SPRINK FLEXIBLE CONVEYOR FOR SCRAPS TRANSPORTEUR FLEXIBLE A SPIRALE POUR DECHETS	(CTMAI/SP)	4.2	CALENDER ROLLS THERMOREGULATION UNIT CENTRAL CYLINDRES LALANDRE	(OCENT/AP/SP)	8.1	HAUL-OFF UNIT GROUPE DE TIRAGE	(AIV/JUMBO/2100/2S)			
2.1	HYDRAULIC SCREEN CHANGER CHANGEUR DE FILTRE HYDRAULIQUE	(BOJIS2-SP)	4.3	UNWINDING UNIT UNITE DE DEROULEMENT	(SV/TNT/2STAX)	9.1	UNWINDING UNIT CONTROL BOARD	(CENT/7)			

DRAWING **05L**
DESSIN

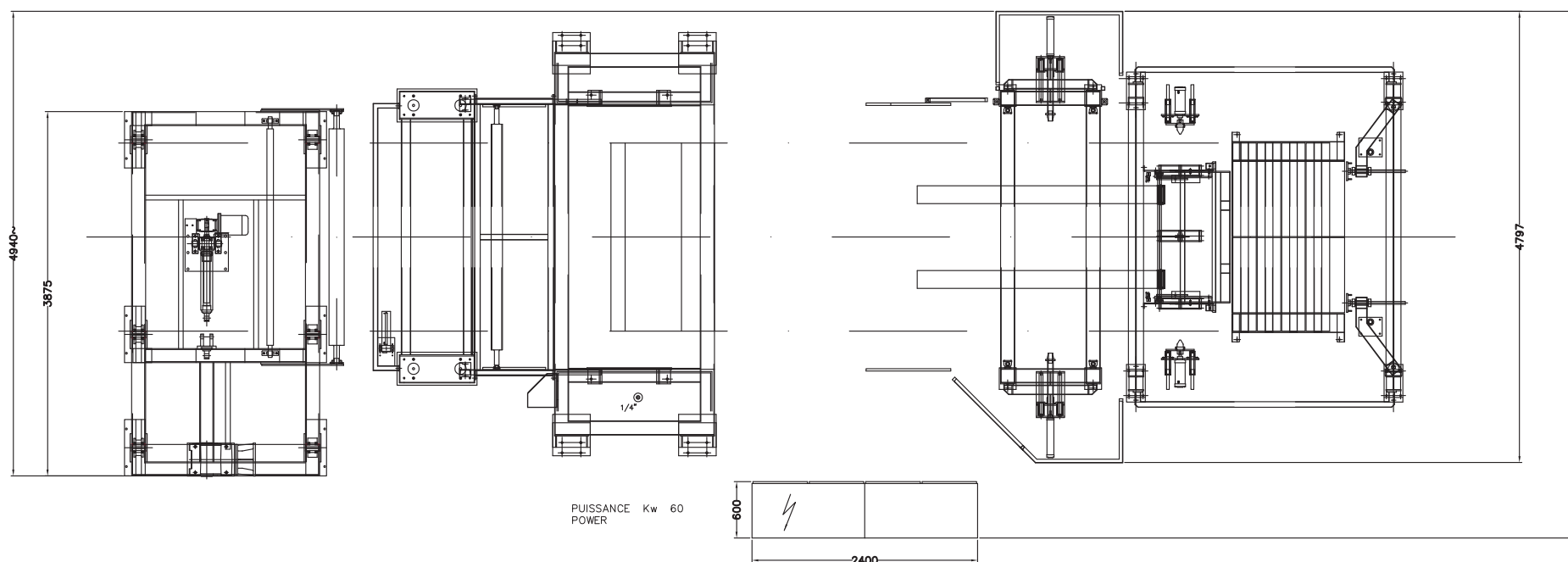
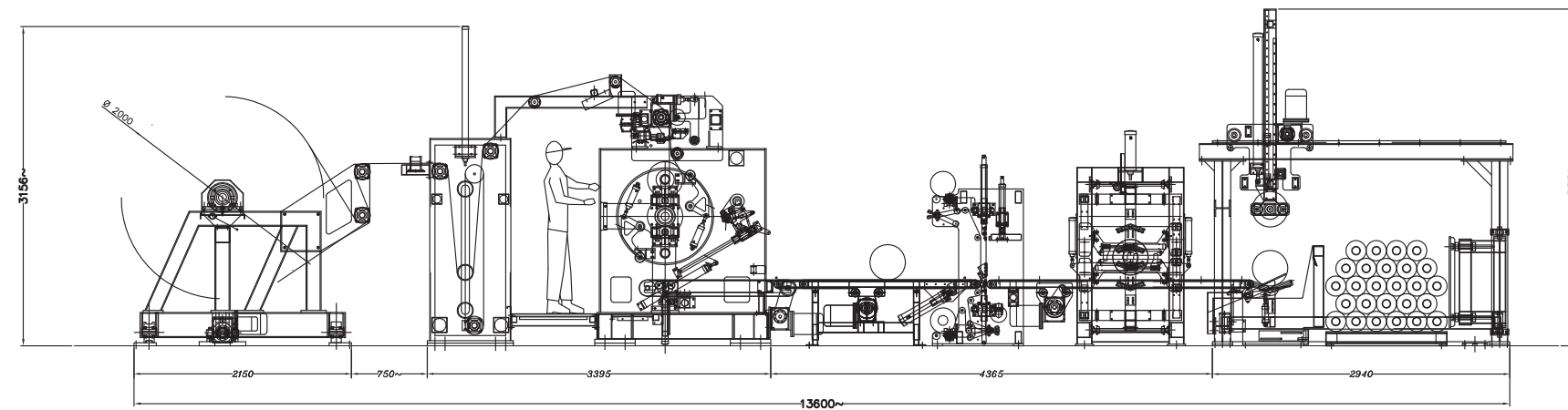
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**PRODUCTION LINES
DETAIL
LIGNE DE FABRICATIONDETAILLES
DETAILLES**

P 03





REWINDING PLANT
INSTALLATION DE REBOBINAGE

DRAWING
DESSIN 05M

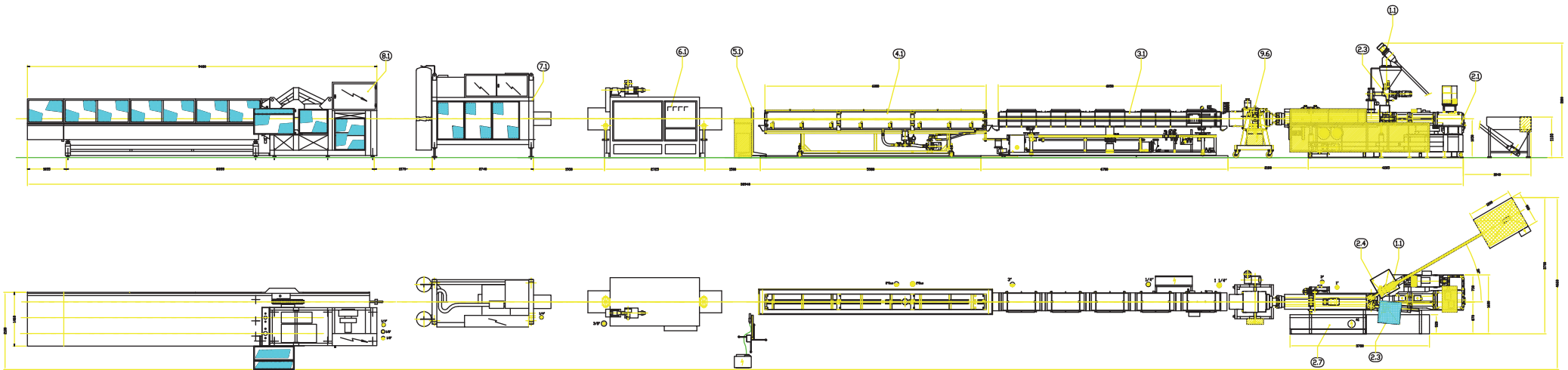
CDA

LAY-OUT AND FOUNDATION
DISPOSITION ET BASE

P 03



EXTRUSION LINES TYPE BA92 BRA
LIGNES D'EXTRUSION TYPE BA92 BRA



PIPES EXTRUSION PLANT - A.2.2/2
LIGNE PRODUCTION TUYAUX - A.2.2/2

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   	Compressed air (filtered and not lubricated)	10000 NI/h
	Air compress (triple et non lubrifié)	
	Cooling water backflow at atmospheric pressure	
	Retour eau de refroidissement à pression atmosphérique	
	Cooling water recirculation in pressure	
	Retour eau de refroidissement en pression	
	Cooling water delivery	
	Retour eau de refroidissement	
		19.8 m ³ /h=94494 kcal/h=109 kw/h

1.1	SPIRAL FLEXIBLE CONVEYOR DRY-BLEND TRANSPORTEUR FLEXIBLE A SPIRALE POUR DRY-BLEND	(CTMAU/SP)
2.1	BA92/200 TWIN SCREW EXTRUDER EXTRUDEUSE DOUBLE VIS NOIR BA92/200	(OEBRA)
2.3	DRY-BLEND FEEDER DOSEUR POUR DRY-BLEND	(MOSES)
2.4	GRINDED MATERIALS FEEDER DOSEUR POUR BROYES	(MOSES)
2.7	TEMPERATURE CONTROL CABINET ARMOIRE CONTROL TEMPERATURES	(QUABO-R)
3.1	CALIBRATION TROUGH BAC DE CALIBRAGE	(TUSCA/16-V)
4.1	COOLING TUNNEL TUNNEL DE REFOUILLISSEMENT	(TURES/16)
5.1	PRINTING UNIT UNITE A IMPRIMER	(MARK-ETSD)
6.1	HAUL-OFF UNIT GROUPE DE TIRAGE	(TSS-250-3)
7.1	PLANETARY CUTTER COUPEUSE PLANETAIRE	(TPS32-250)
8.1	AUTOMATIC BELLING MACHINE MACHINE A TULPIER AUTOMATIQUE	(BA/NS/TT32-200)
9.6	EXTRUSION HEAD TETE D'EXTRUSION	(TEATS)

DRAWING
DESSIN

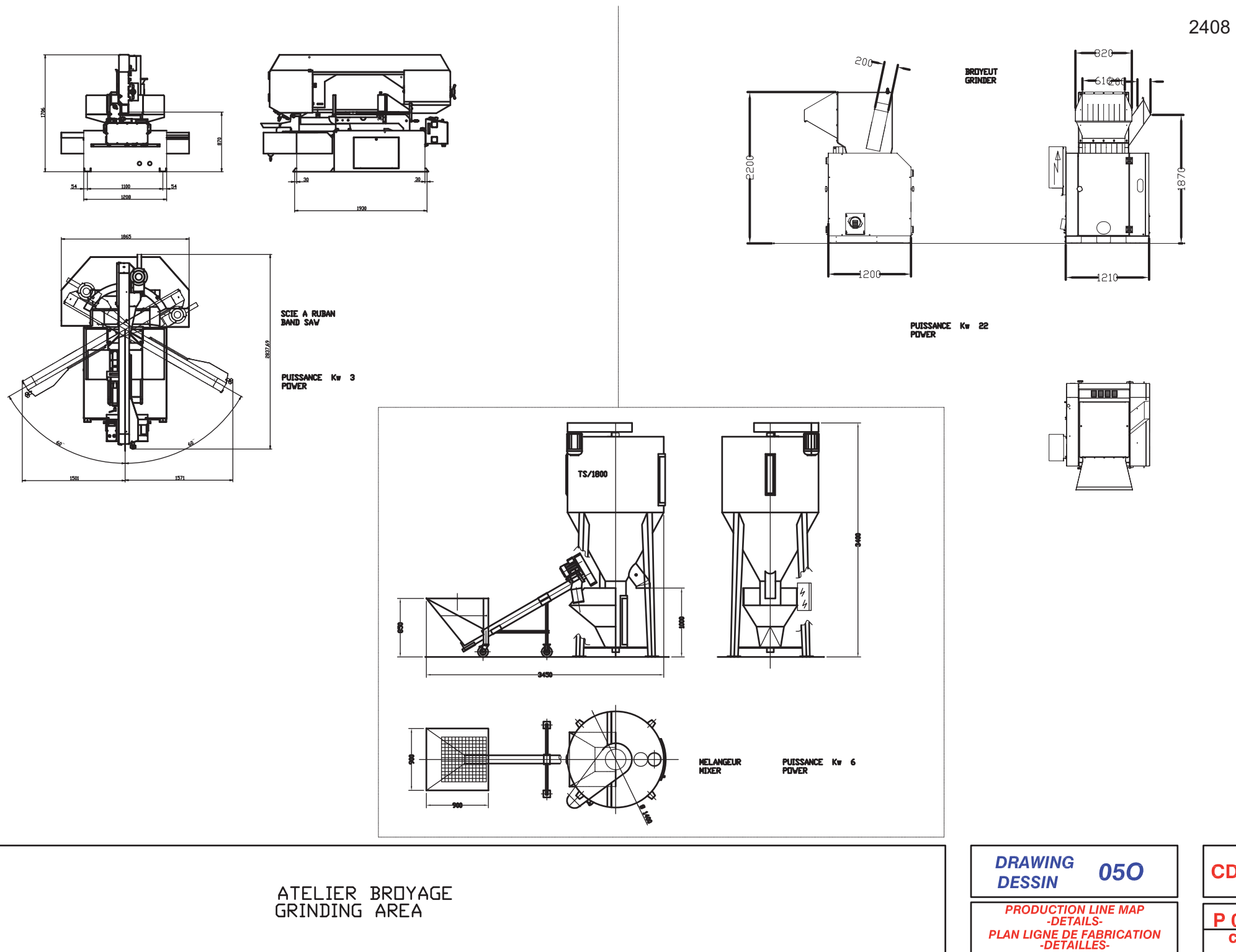
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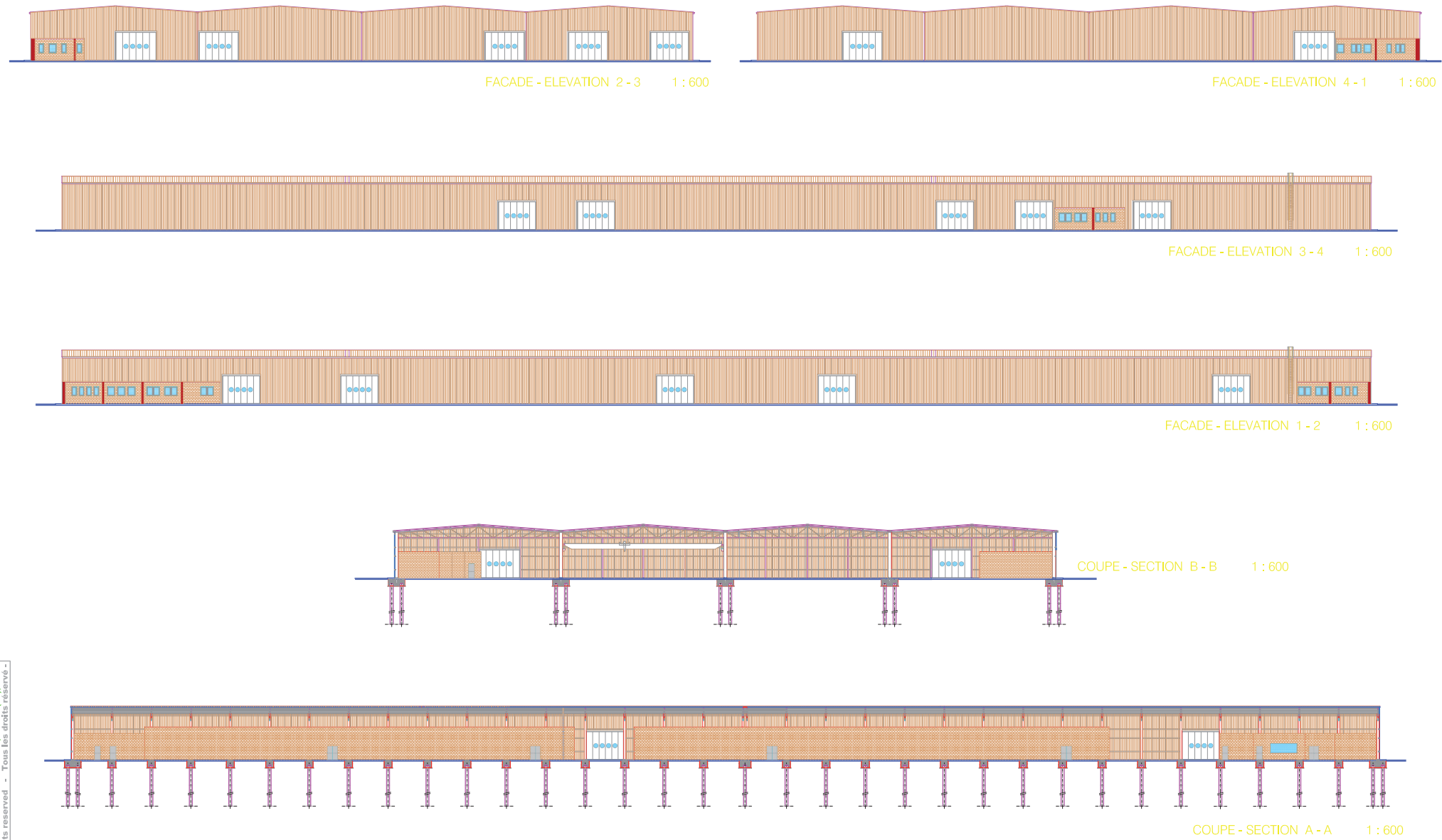
PRODUCTION LINE MAP
-DETAILS-
PLAN LIGNE DE FABRICATION
-DETAILLES-

CDA

P 02
c







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**DRAWING
DESSIN**

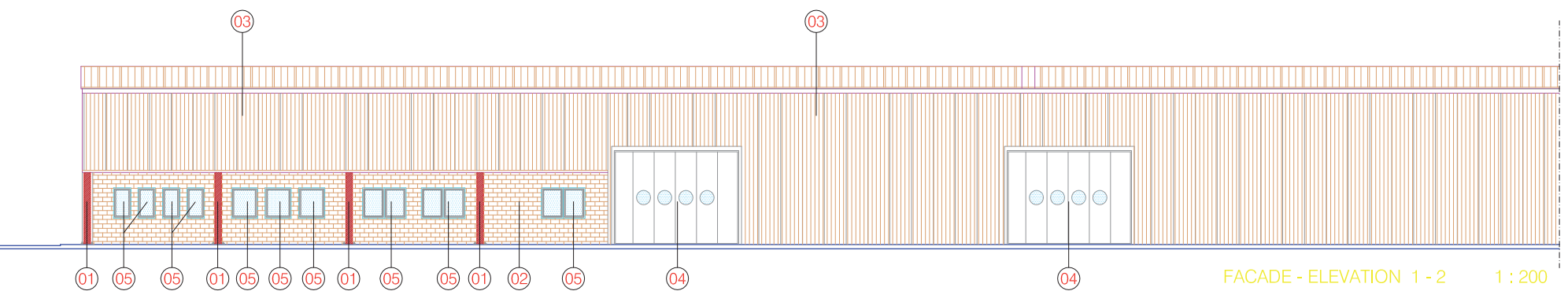
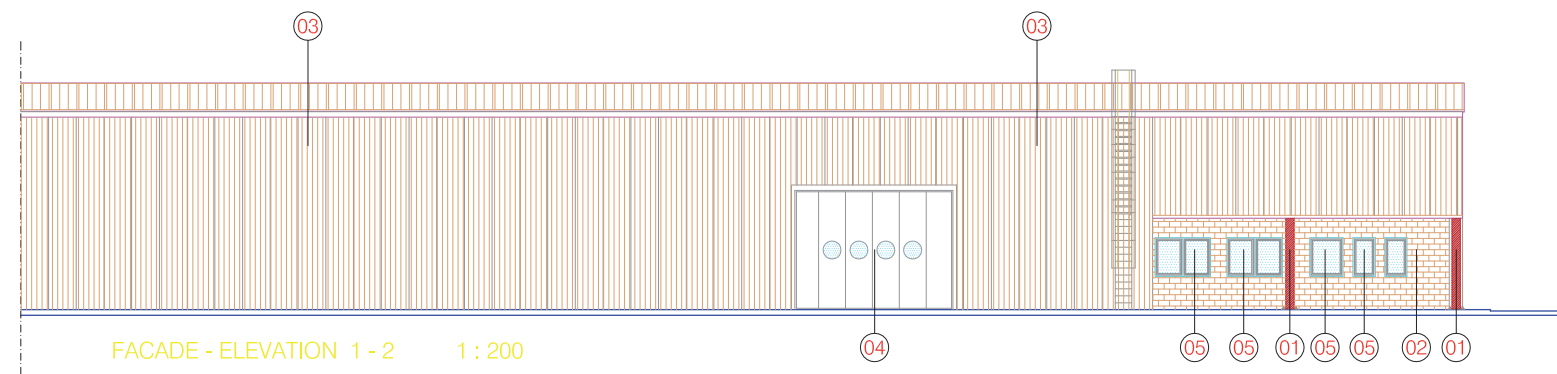
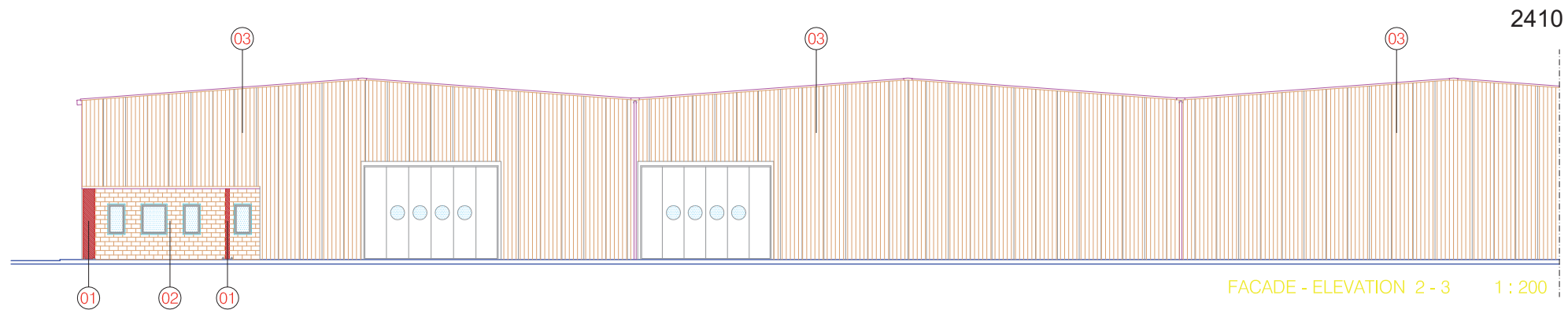
06

CDA

**COUPES-FACADES
SECTIONS-ELEVATIONS**

P 02





- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 mur de briques en béton vibrant
couleur ocre
vibrate concrete masonry
colour ochre
- 03 panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation
- 04 lateral sliding aluminium door
porte d'aluminium à la partie latérale glissant
- 05 ribbon aluminium window in with open joint
vasistas and control to man height
double glazing
fenetre-bande en aluminium avec le joint ouvert
vasistas avec le commande de taille a l'homme
double verre

progetto sviluppato e prodotto da: STUDIO ALGOTTI & FALCONE, Pesaro (PU), ITALIA
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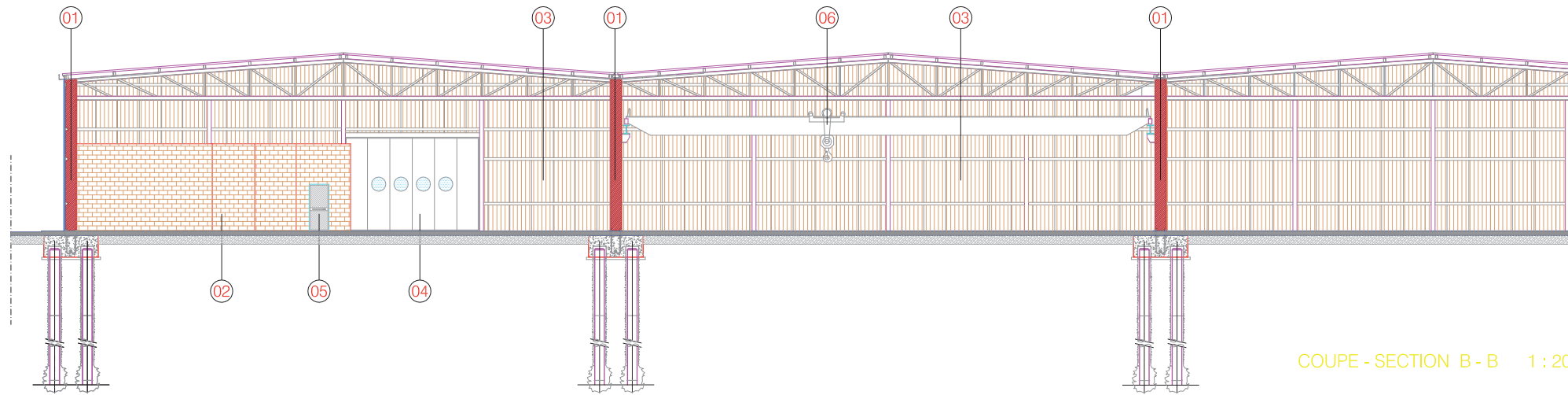
DRAWING
DESSIN 07a

CDA

COUPES
FACADES

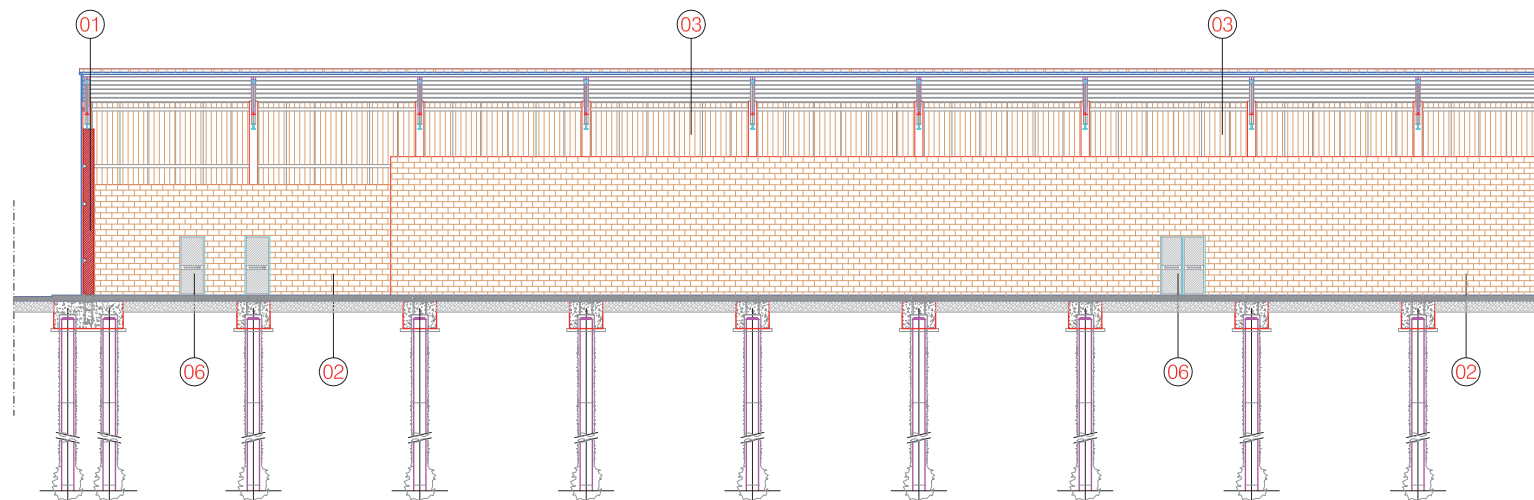
P 02





COUPE - SECTION B - B 1 : 200

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 mur de briques en béton vibrant
couleur ocre
vibrate concrete masonry
colour ochre
- 03 pannaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation
- 04 lateral sliding aluminium door
porte d'aluminium à la partie latérale glissant
- 05 multi function metallic and glass door with
antipanic handle
porte métallique et de verre multi-fonction
avec la poignée antipanic
- 06 bridge-trane 11 ton.
pont roulant 11 ton.



COUPE - SECTION A - A 1 : 200

DRAWING
DESSIN

07b

CDA

SECTIONS
ELEVATIONS

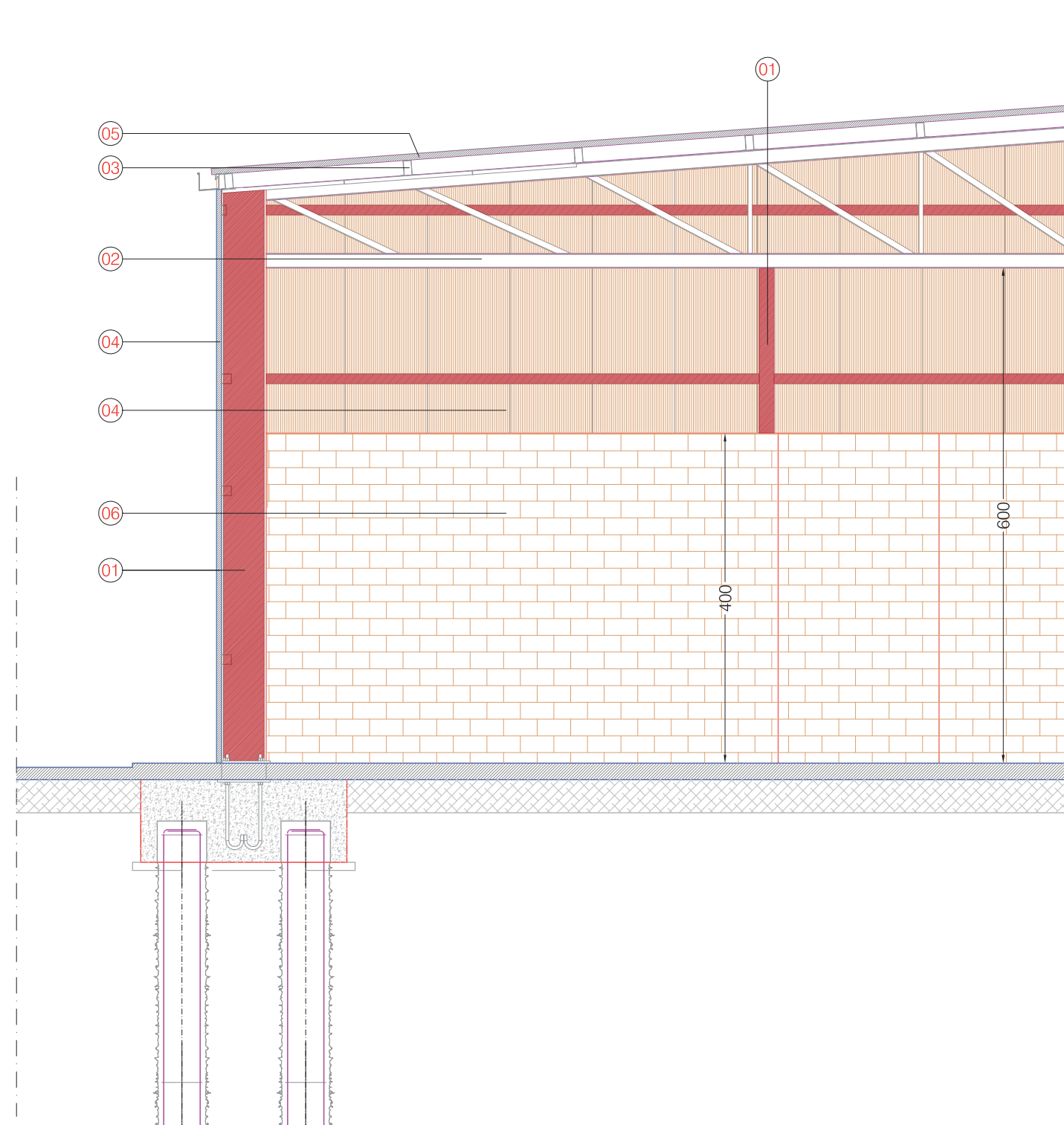
P 02

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2412

COUPE - SECTION B - B 1 : 50



- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio
- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- 06 mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre

DRAWING
DESSIN 08a

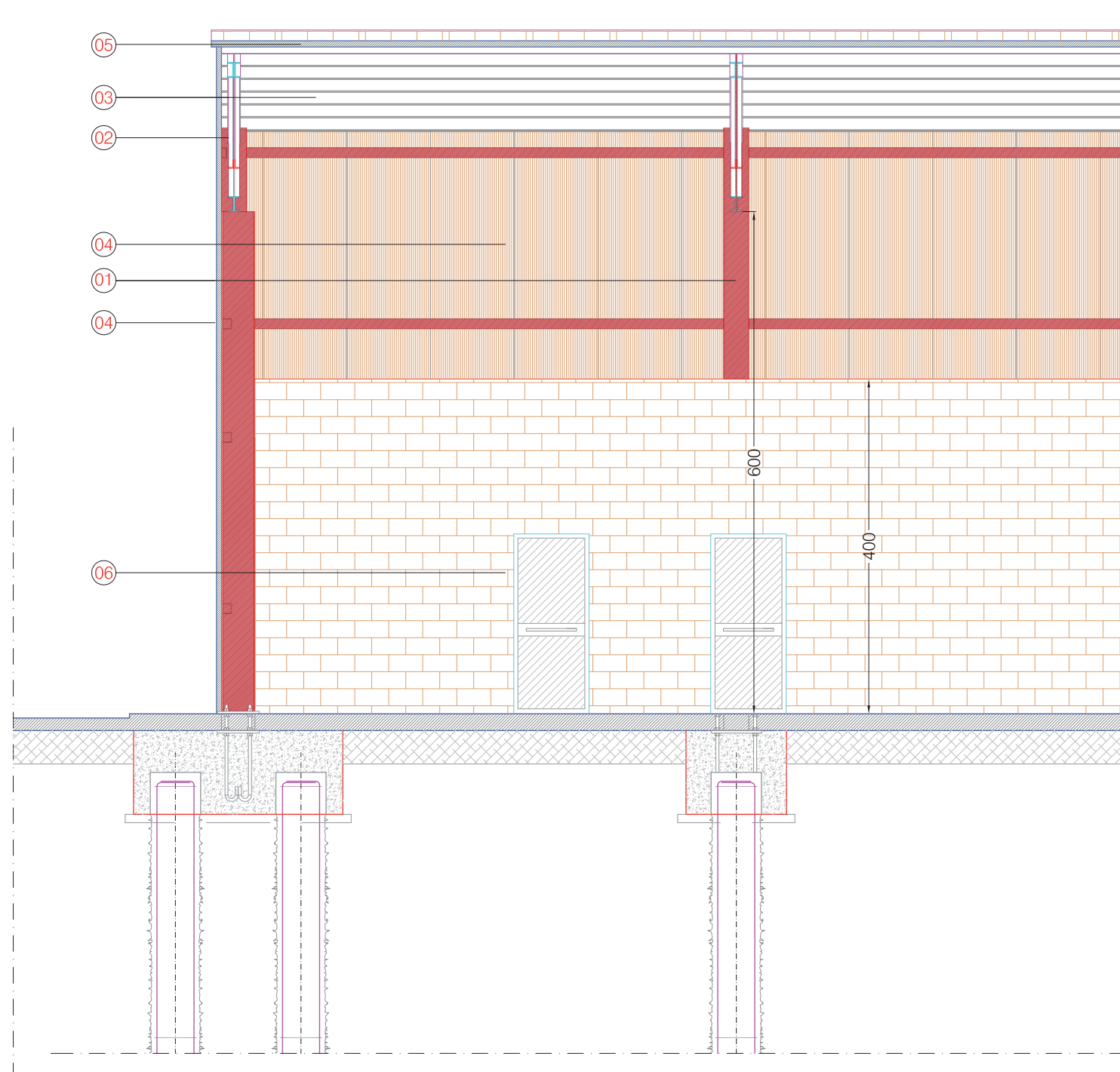
CDA

SECTIONS
ELEVATIONS

P 02



COUPE - SECTION A - A 1 : 50 **2413**



- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio
- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- 06 mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre

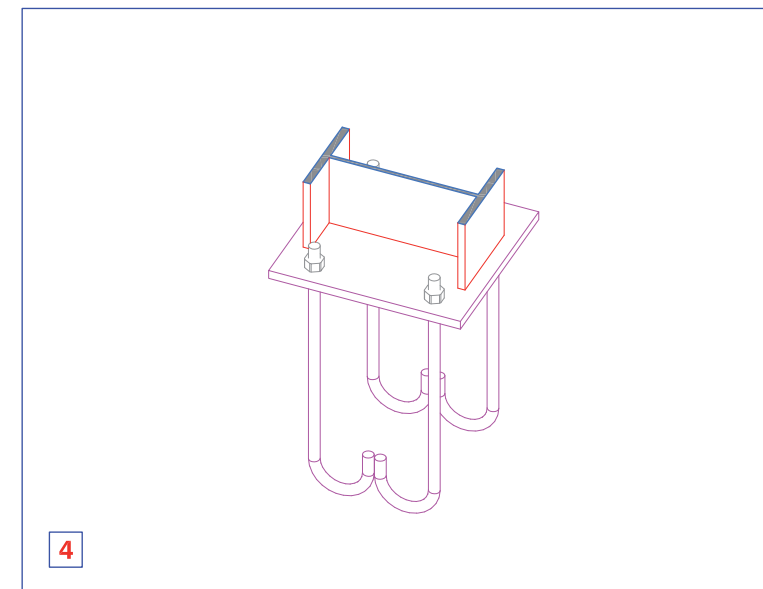
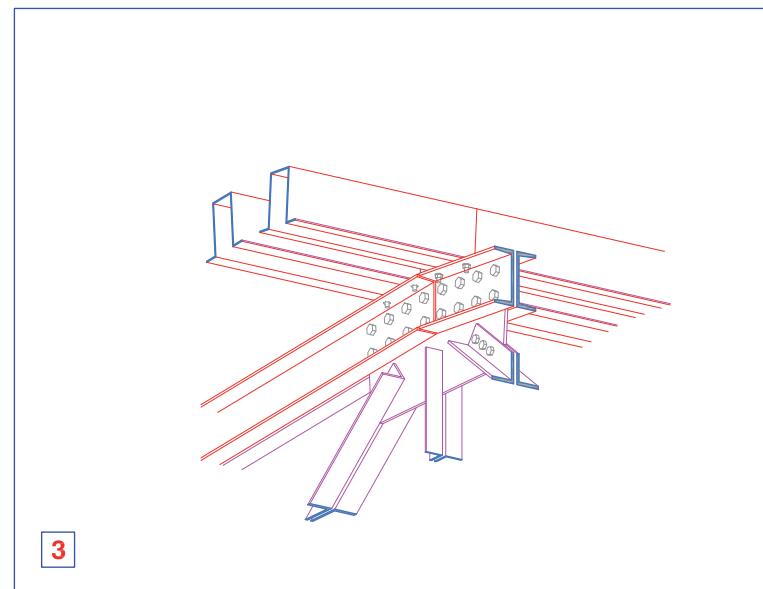
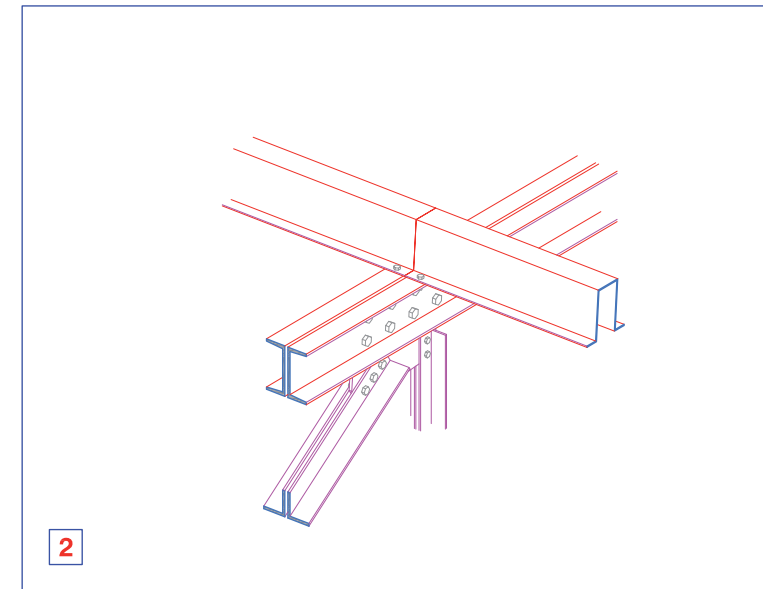
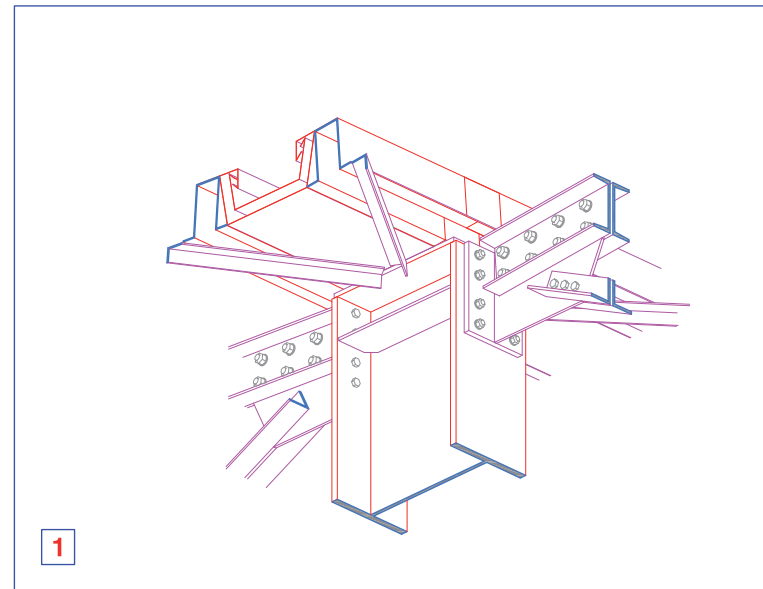
DRAWING
DESSIN **08b**

CDA

SECTIONS
ELEVATIONS

P 02

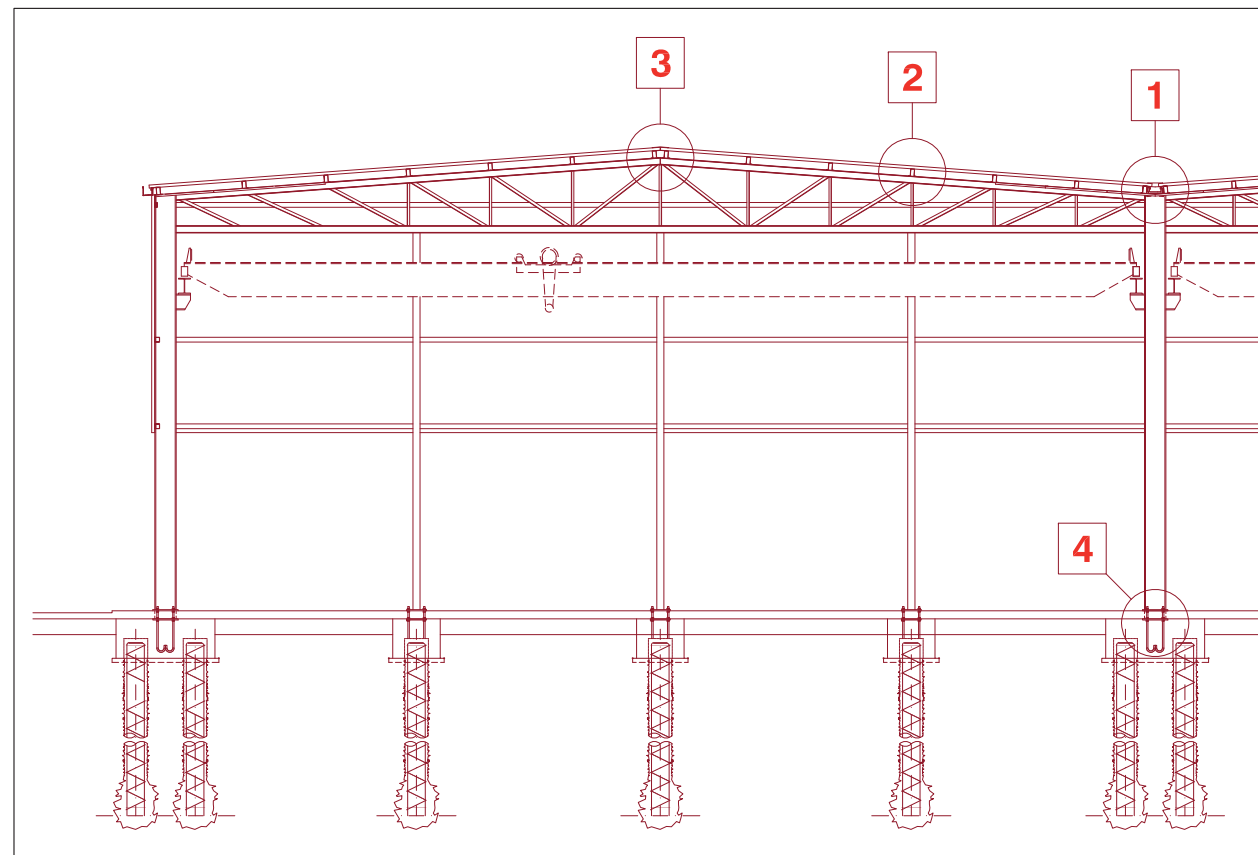




DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

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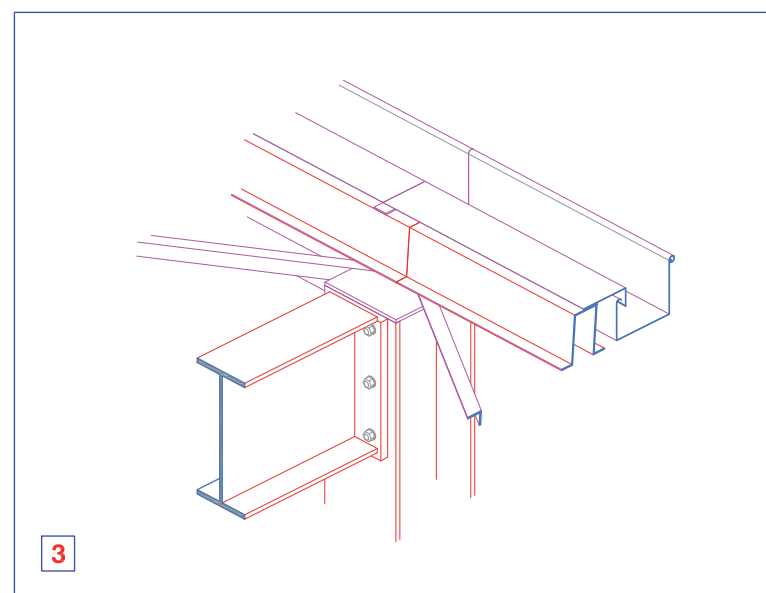
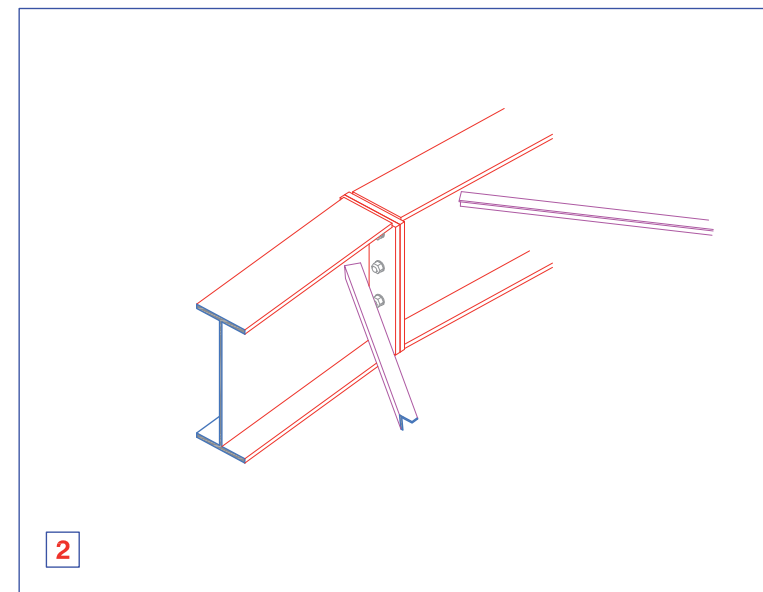
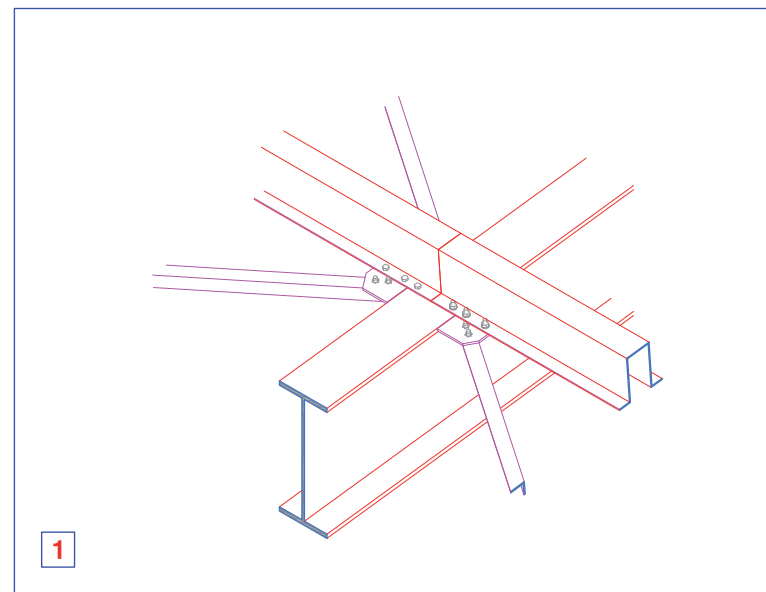
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

A

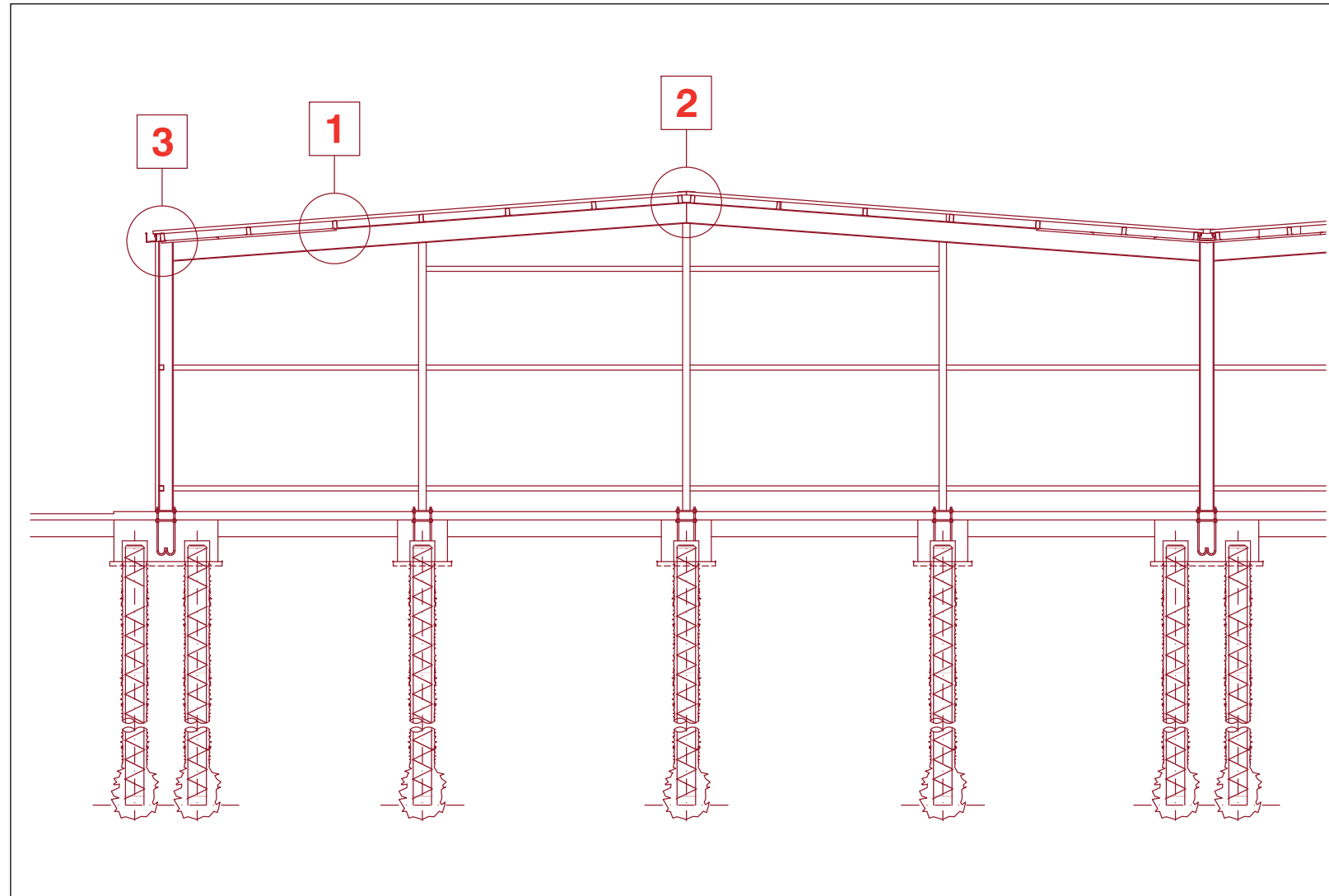
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

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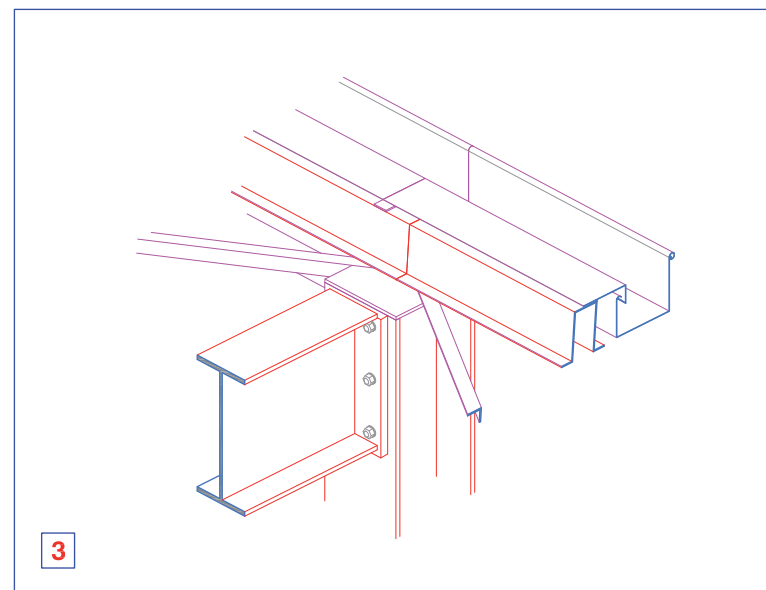
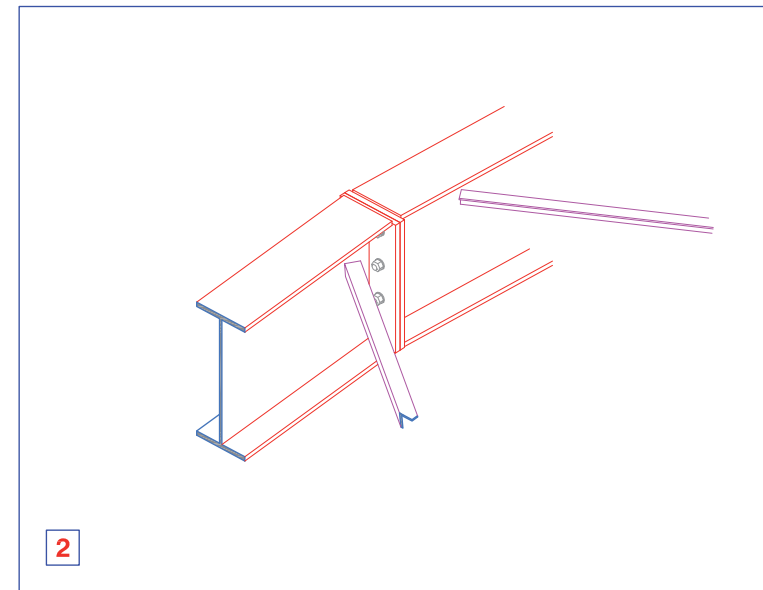
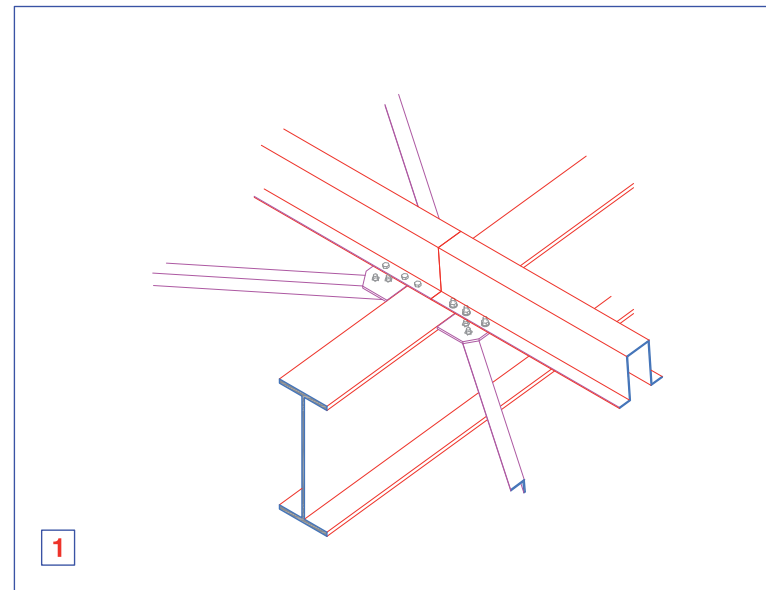
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

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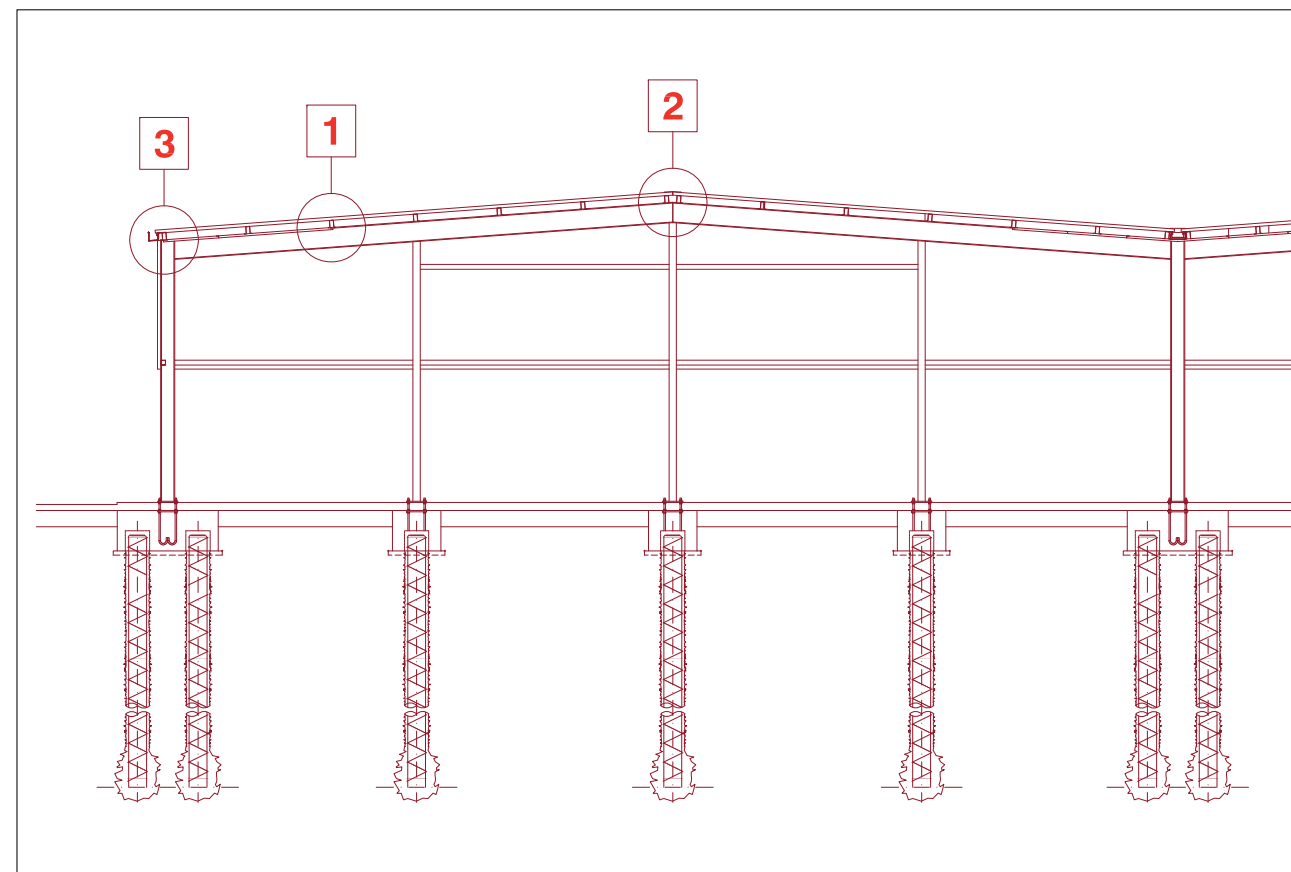
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

C1

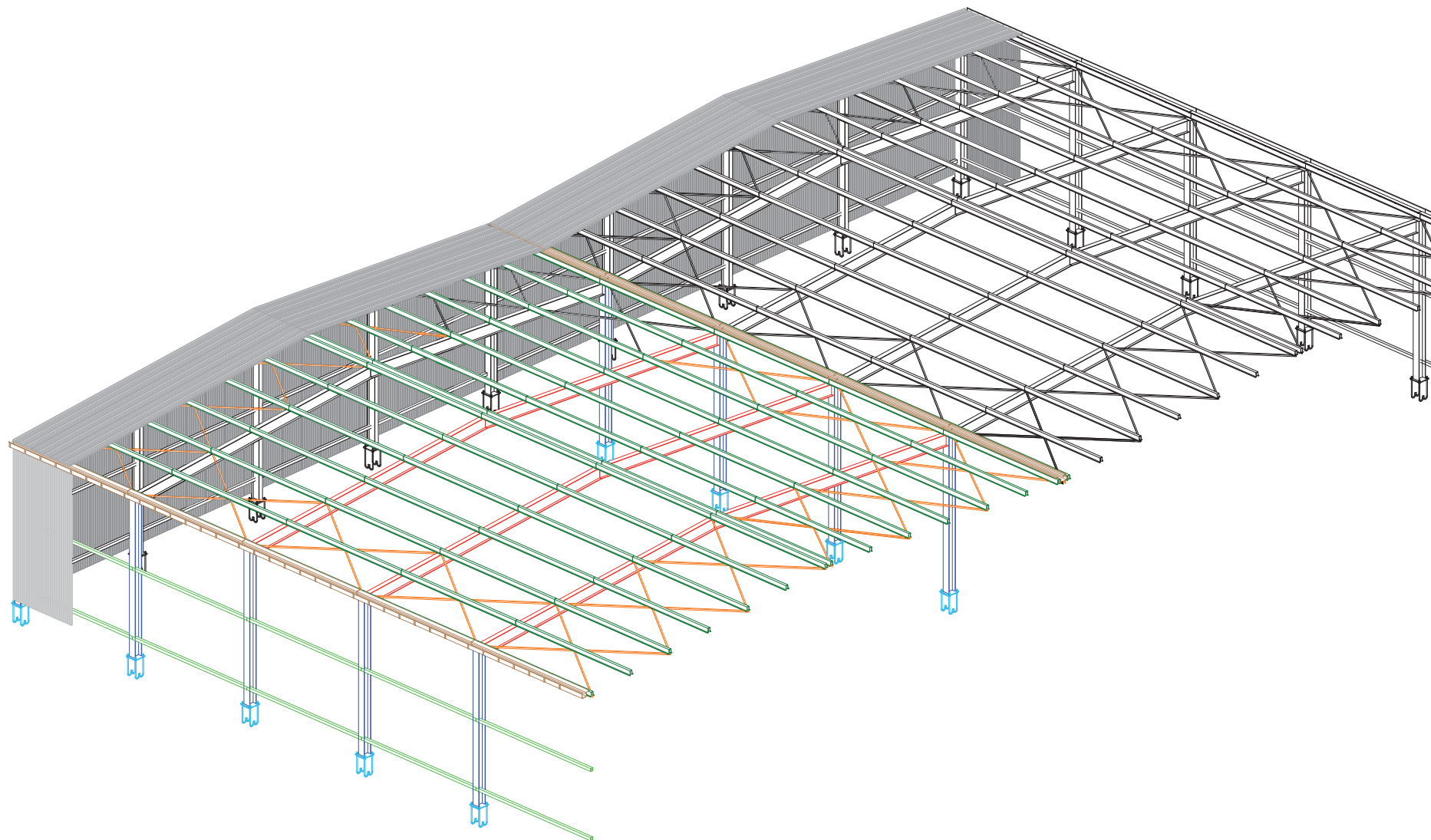
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

C

CDA

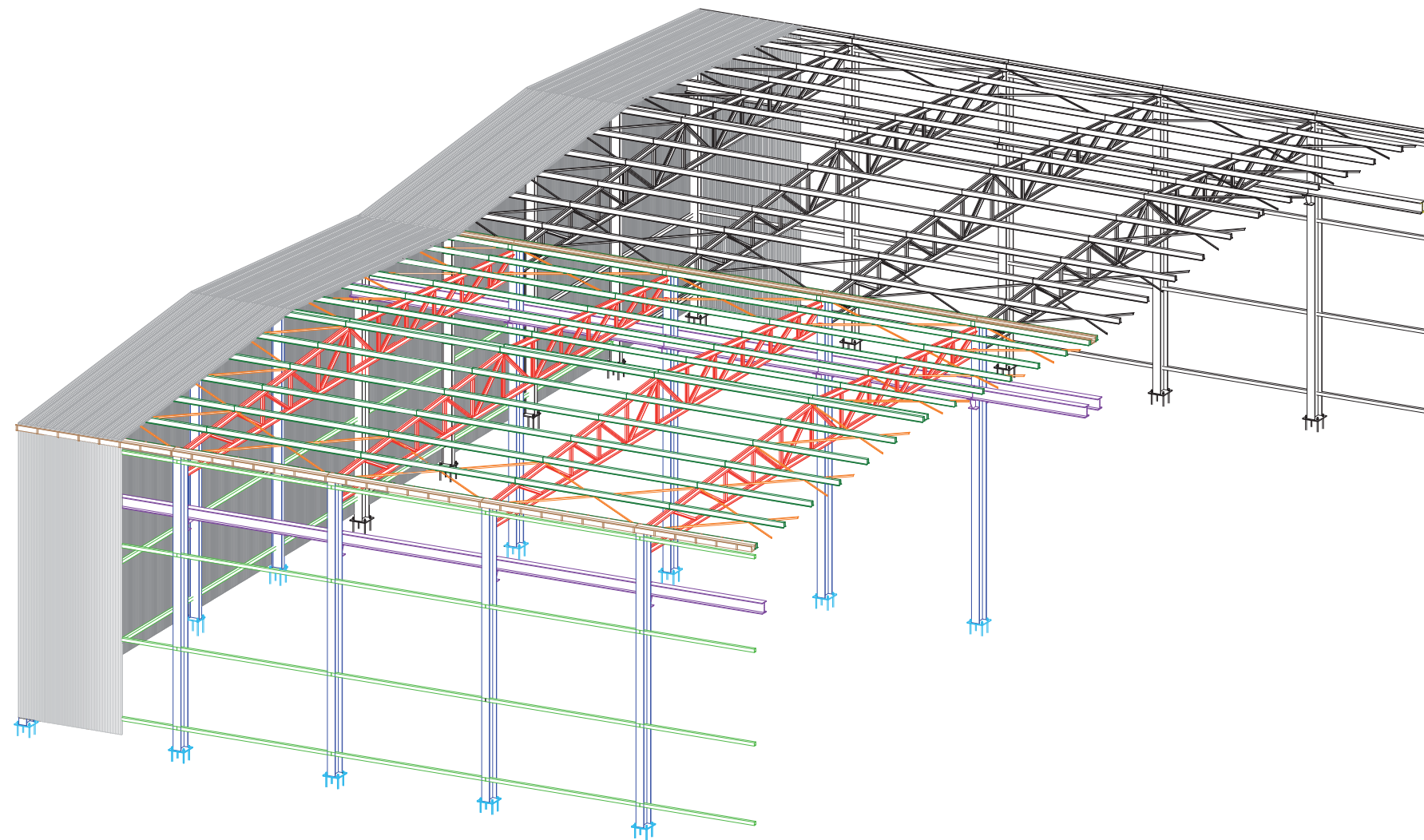


DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

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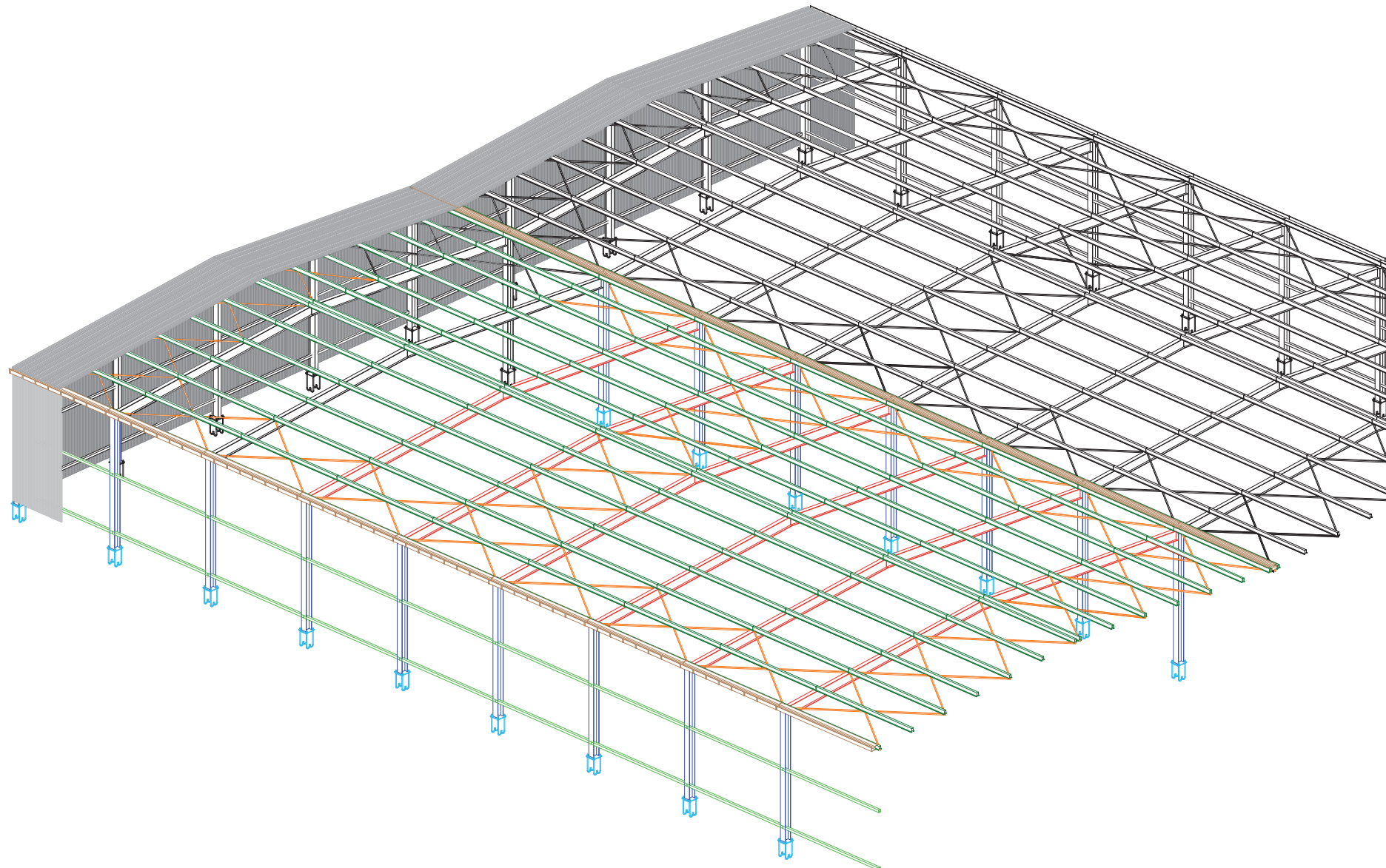


**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

E

CDA





DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

F

CDA

LEGEND/LEGENDA

Simbolo	Descrizione	Simbolo	Descrizione
	PEHD PIPE HOT WELDED FOR SEWER TUBAZIONE IN PEAD TERMOSALDATA PER SCARICHI		FIRE EXTINGUISHER ESTINTORE A CO DA 5 kg CON CAPACITÀ ESTINGUENTE 89BC
	PVC PIPE FOR EXTERNAL SEWER TUBAZIONE IN PVC PER SCARICHI ESTERNI		FLOOR DRAIN PILETTA
	PVC PIPE FOR EXTERNAL DRAINAGE TUBAZIONE IN PVC PER DRENAGGI ESTERNI		SEWER SCARICO
	PEHD PIPE HOT WELDED FOR COMPRESSED AIR TUBAZIONE IN PEAD TERMOSALDATA PER ARIA COMPRESSA		VENT THRU ROOF COLONNA DI VENTILAZIONE
	STEEL BLACK PIPE EN 10220 SS FOR COMPRESSED AIR TUBAZIONE IN ACCIAIO NERO EN 10220 SS PER ARIA COMPRESSA		STORAGE BOILER CALDAIA CON ACCUMULO
	PEHD PIPE HOT WELDED FOR FIRE FIGHTING SYSTEM TUBAZIONE IN PEAD TERMOSALDATA PER ANTINCENDIO		BALL VALVE VALVOLA A SFERA
	STEEL BLACK PIPE EN 10220 SS FOR FIRE FIGHTING SYSTEM TUBAZIONE IN ACCIAIO NERO EN 10220 SS PER ANTINCENDIO		AUTOMATIC BLOCK VALVE, NORMALLY CLOSED ELETTROVALVOLA DI INTERCETTAZIONE, NORMALMENTE CHIUSA
	PEHD PIPE HOT WELDED UNI ISO 4437 FOR GAS CH4 TUBAZIONE IN PEAD TERMOSALDATA UNI ISO 4437 PER GAS METANO		AUTOMATIC CONDENS DRAINAGE GRUPPO DI DRENAGGIO AUTOMATICO CONDENSA DN 15
	STEEL BLACK PIPE UNI 8863 SS FOR GAS CH4 TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS PER GAS METANO		GATE BALL-Ø=ØPIPE-ØPN 16, INSPECTION TRAP IN CONCRETE, WITH COVER VALVOLE DI INTERCETTAZIONE A SARACINESCA-Ø=ØTUBO-ØPN 16 POSTA ENTRO POZZETTO CON CHIUSINO
	PEHD PIPE HOT WELDED FOR POTABLE WATER TUBAZIONE IN PEAD TERMOSALDATA PER ACQUA POTABILE		TRAP IN CONCRETE WITH COVER AND SPLICE POLYETHYLENE STEEL POZZETTO IN CLS CON CHIUSINO E GIUNZIONE POLIETILENE ACCIAIO
	STEEL BLACK PIPE UNI 8863 SS FOR POTABLE WATER TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS PER ACQUA POTABILE		FLOOR DRAIN CADITOIA IN GHISA
	STEEL BLACK PIPE UNI 8863 SS FOR HOT POTABLE WATER TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS PER ACQUA CALDA POTABILE		TRAP IN CONCRETE WITH COVER, SPLICE POLYETHYLENE STEEL, GATE BALL-Ø=ØPIPE-ØPN 16 POZZETTO IN CLS CON CHIUSINO, GIUNZIONE POLIETILENE ACCIAIO, VALVOLA DI INTERCETTAZIONE A SARACINESCA-Ø=ØTUBO-ØPN 16
	PIPING GALVANIZED STEEL RICIRCULATION HOT POTABLE WATER TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS ACQUA CALDA RICIRCOLO POTABILE		
	STANDPOST HYDRANT IDRANTE SOPRASSUOLO A COLONNA		
	UNI 45 FIRE HYDRANT, HOSE LENGHT 20 METERS IDRANTE UNI 45, LUNGHEZZA MANICHETTA 20 METRI		
	WATER ATTACK DN 100 FIRE DEPARTMENT ATTACCO MOTOPOMPA DN 100		
	FIRE EXTINGUISHER PORTABLE TYPE ABC 6 kg ESTINTORE PORTATILE A POLVERE DA 6 kg CLASSE 43A-233BC		

PRISMA ENGINEERING SRL
VIA XI FEBBRAIO 2/A
049/8718205 fax 049/8719368

MDI PO2

MAS GROUP
MAGNIFIC A SERVICE

LEGEND
LEGENDE



SCALE: -

LOTTO NO. PO2 MDI

DRAWING NO. MDIP02IM01

SHEET 2 OF 30

E-MD02

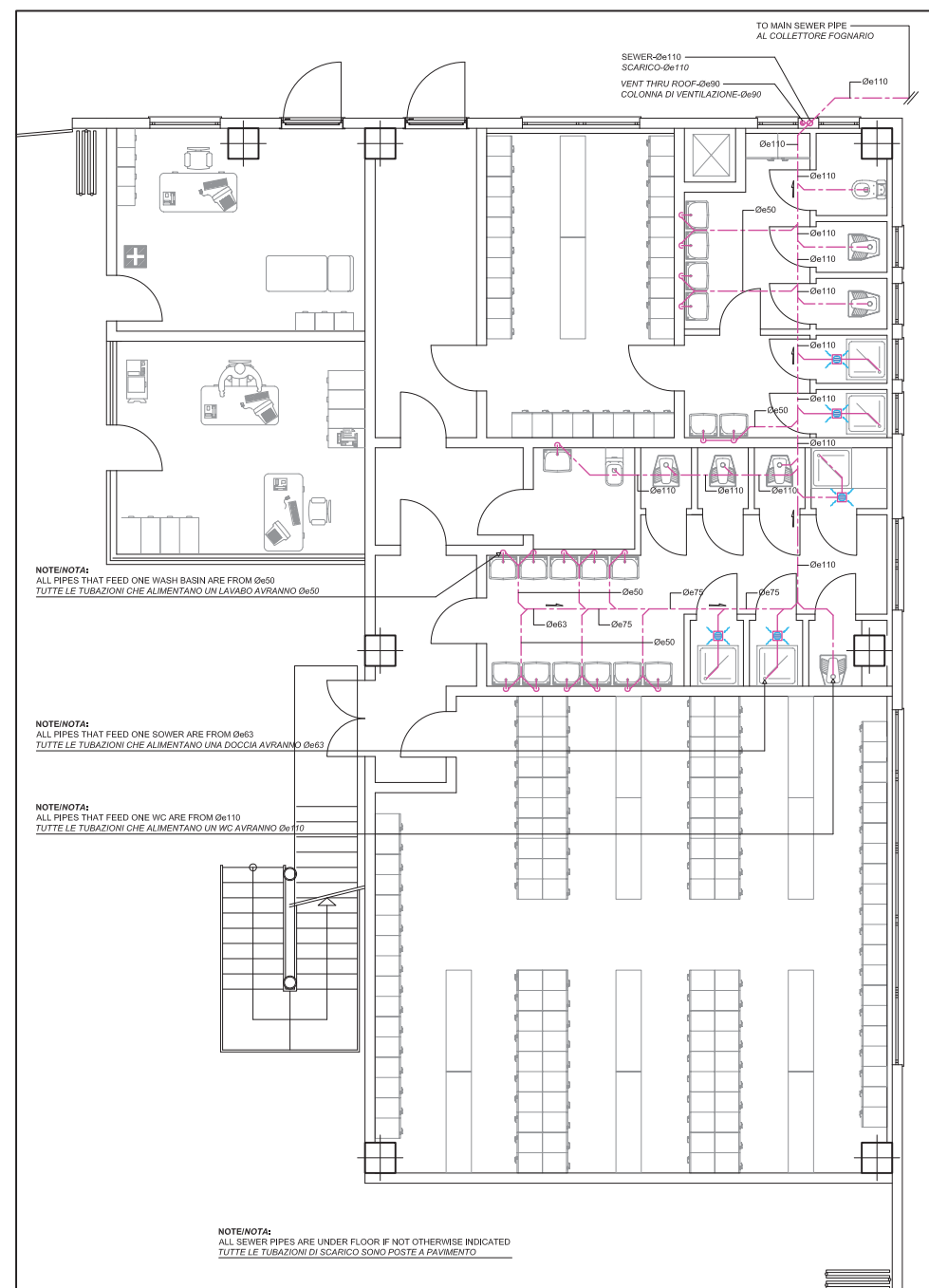
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L.V.
APPROVED

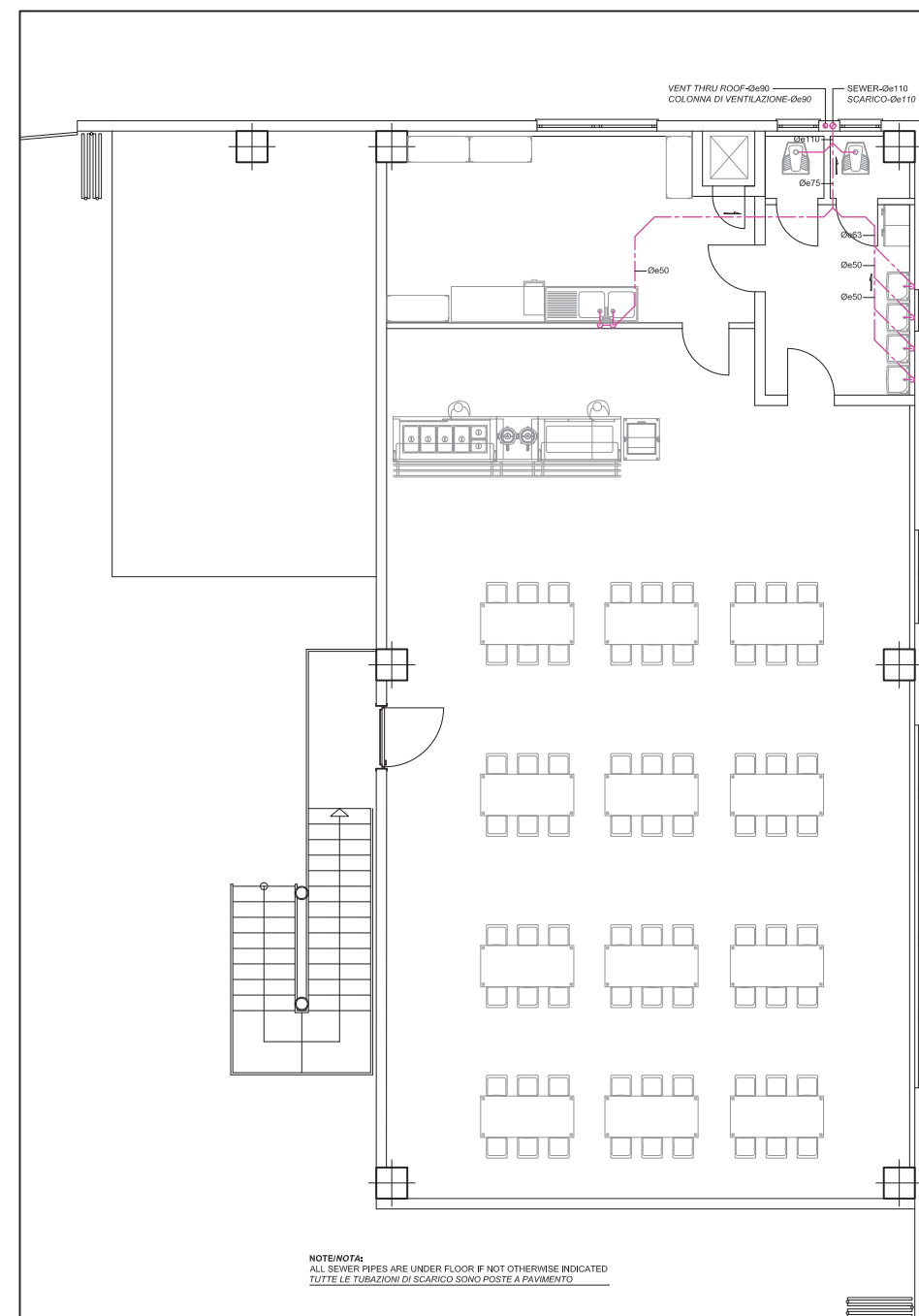
1 ST EMISSION/1ER EMISSION
DESCRIPTION

REVISIONS





GROUND FLOOR
REZ-DE-CHAUSSEE 1:500



FIRST FLOOR
ÉTAGE PREMIER

SYMBOL	DATE	APPROVED
01	16/11/08	
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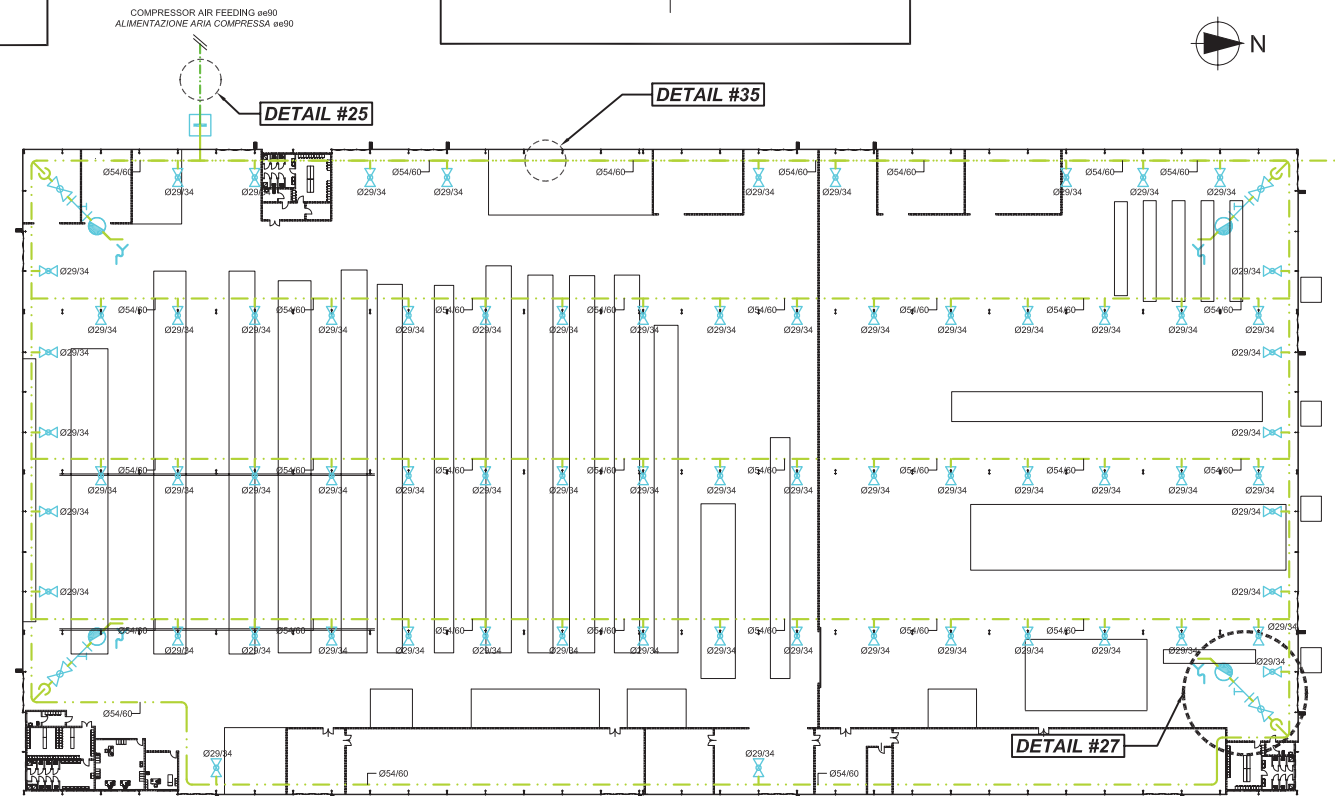
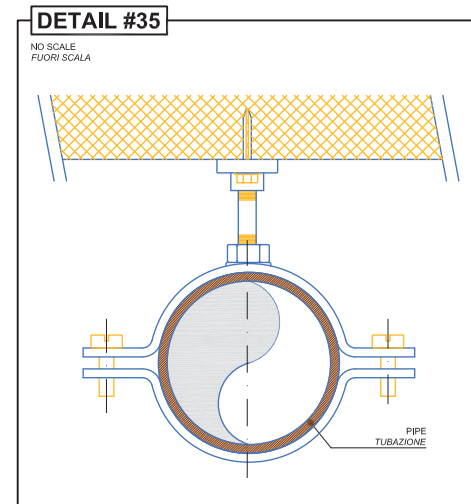
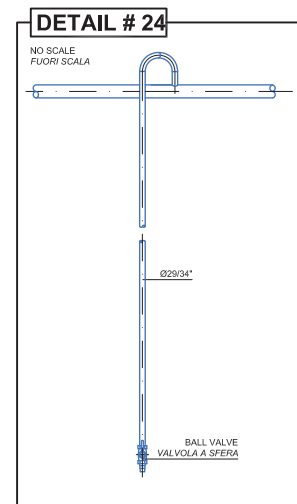
DESCRIPTION	REVISIONS
1ST EMISSION/1ER EMISSION	

PRIMA ENGINEERING SRL VIA XI FEBBRAIO 2/A 00144 ROMA (RM) Tel. 06/47818200 Fax 06/47818201	MDI P02
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MAS GROUP MAGNIFIC A SERVICE *BLOCK SERVICES SEWER SYSTEM* *SYSTEME DE EGOUT TOILETTES*	
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SCALE: 1:100	LOTTO NO. P02 MDI
DRAWING NO. MDIP02IM03	SHEET 3 OF 30
E-MD03	

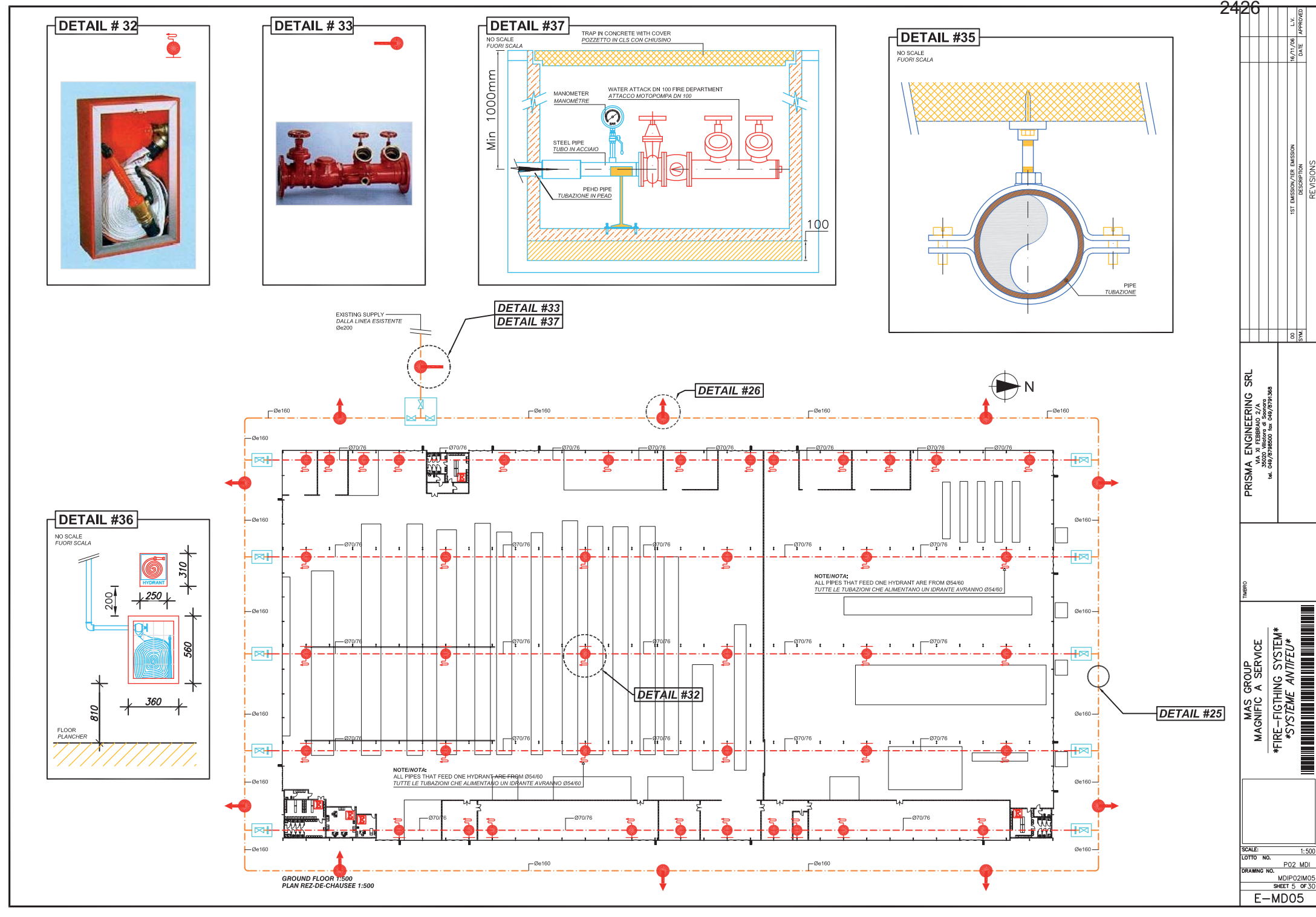




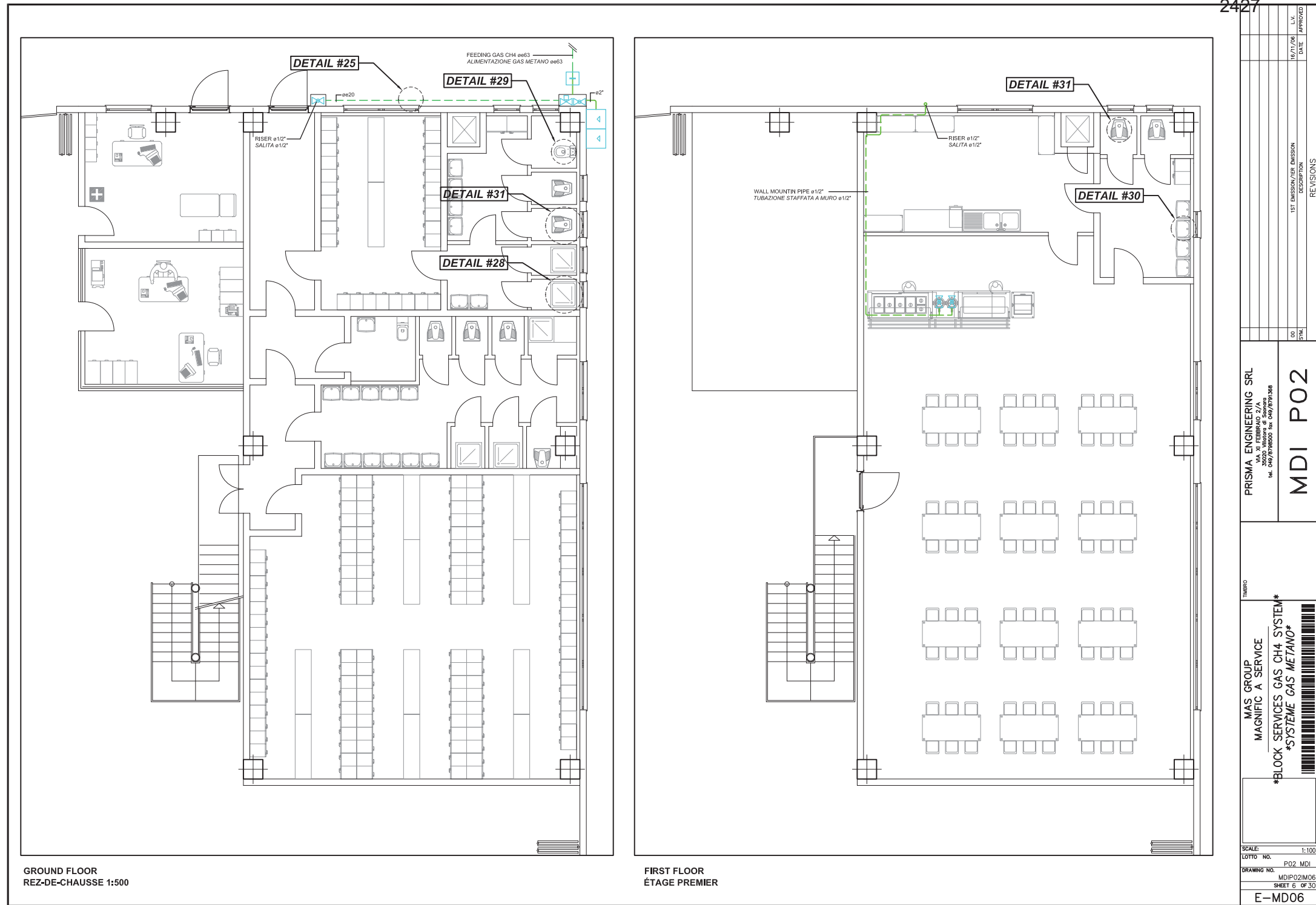
GROUND FLOOR 1:500
PLAN REZ-DE-CHAUSEE 1:500

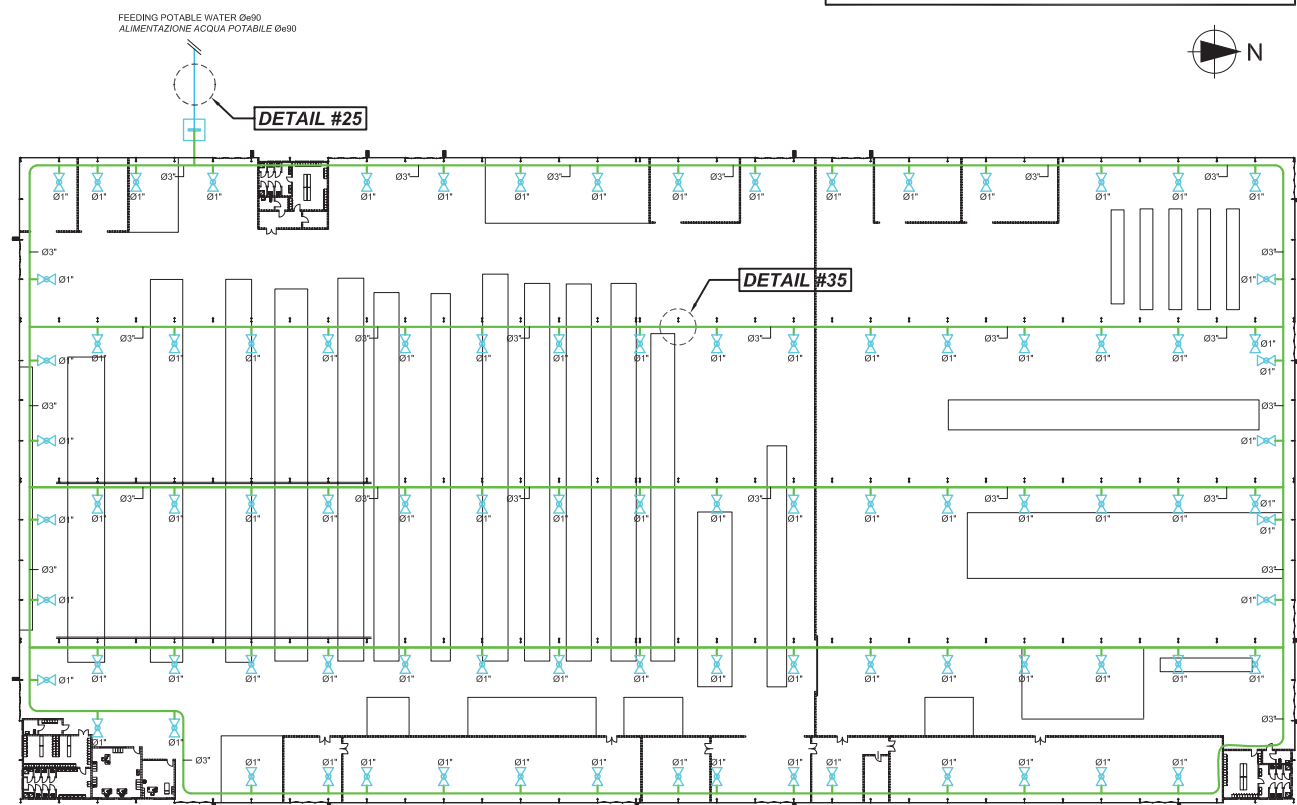
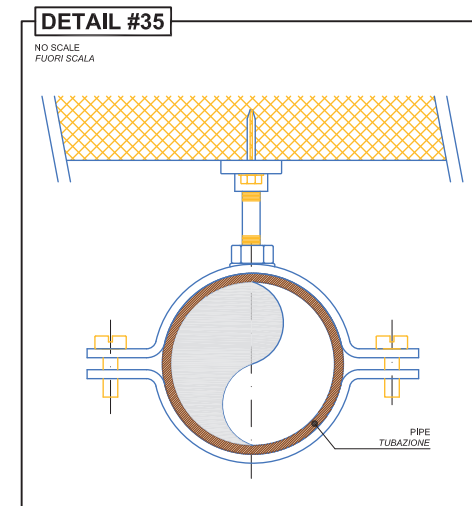
SCALE: 1:500 LOTTO NO. P02 MDI DRAWING NO. MDIP02IM04 SHEET 4 OF 30		MAS. GRUPP MAGNIFIC A SERVICE *COMPRESSED AIR SYSTEM* *SYSTEME AIR COMPRIME* 		INDIRIZZO PRISMA ENGINEERING SRL 33020, Vidorio di Sordana (UD) - Italy tel. 0432/919505 fax 0432/919108		PRISMA ENGINEERING SRL 33020, Vidorio di Sordana (UD) - Italy tel. 0432/919505 fax 0432/919108 MDI P02 1ST EMISSION / 1ER EMISSION DESCRIPTION 16/01/06 L.V. DATE APPROVED STYL. REVISIONS	
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2427

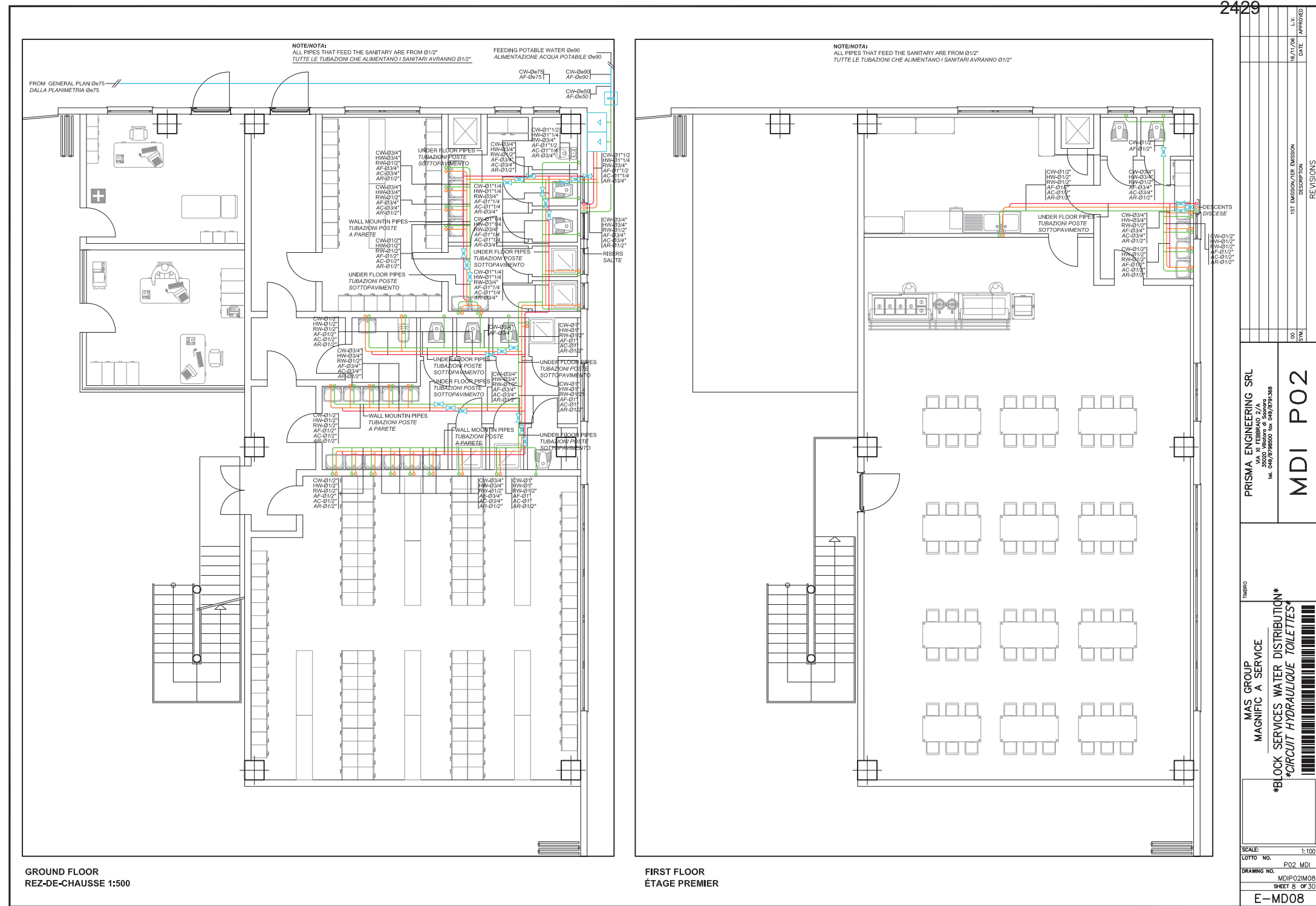




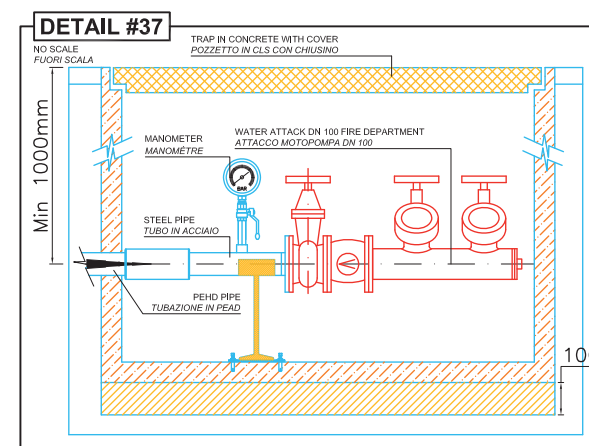
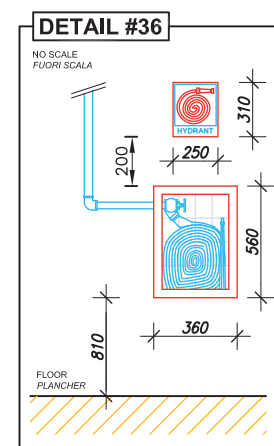
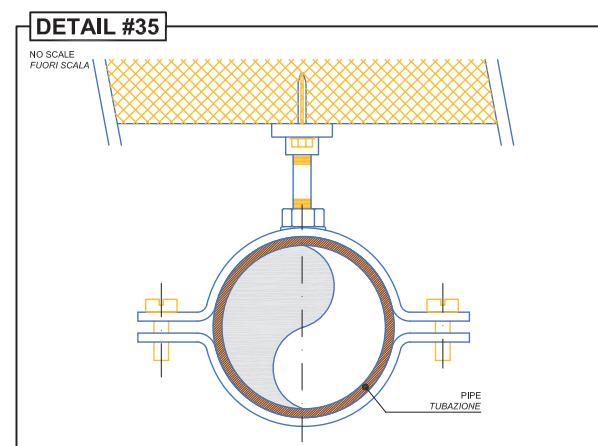
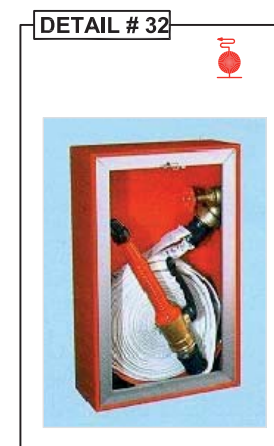
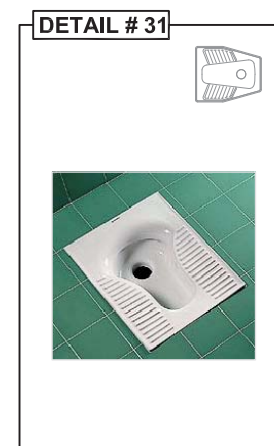
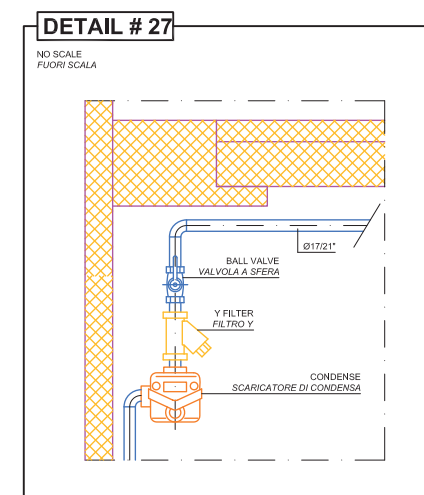
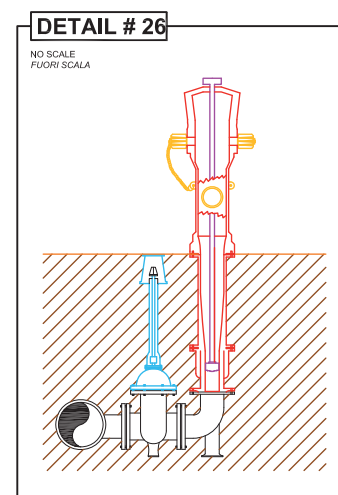
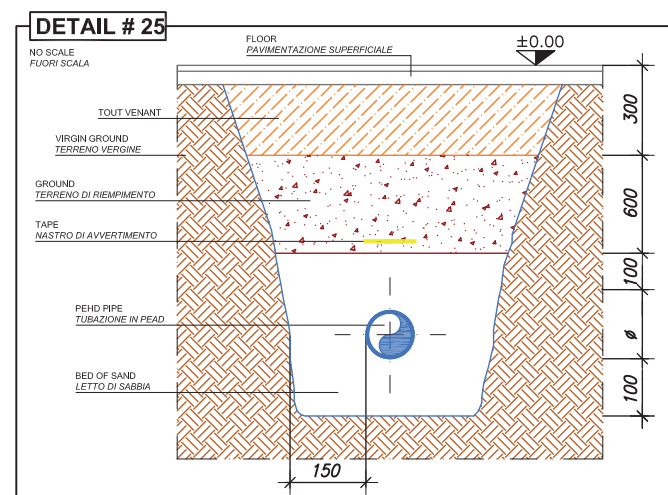
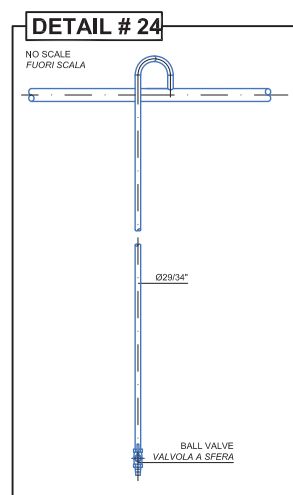
GROUND FLOOR 1:500
PLAN REZ-DE-CHAUSSEE 1:500

PRISMA ENGINEERING SRL		MDI P02	
VIA XI FEBBRAIO 2/A			
00144 - 00144			
TEL. 049/8788005 fax 049/8781368			
TIMBRO			
MAS GROUP			
MAGNIFIC A SERVICE			
WATER DISTRIBUTION			
CIRCUIT HYDRAULIQUE			
SCALE:		1:500	
LOTTO NO.		P02 MDI	
DRAWING NO.		MDIP02IM07	
SHEET 7 OF 30			
E-MD07			



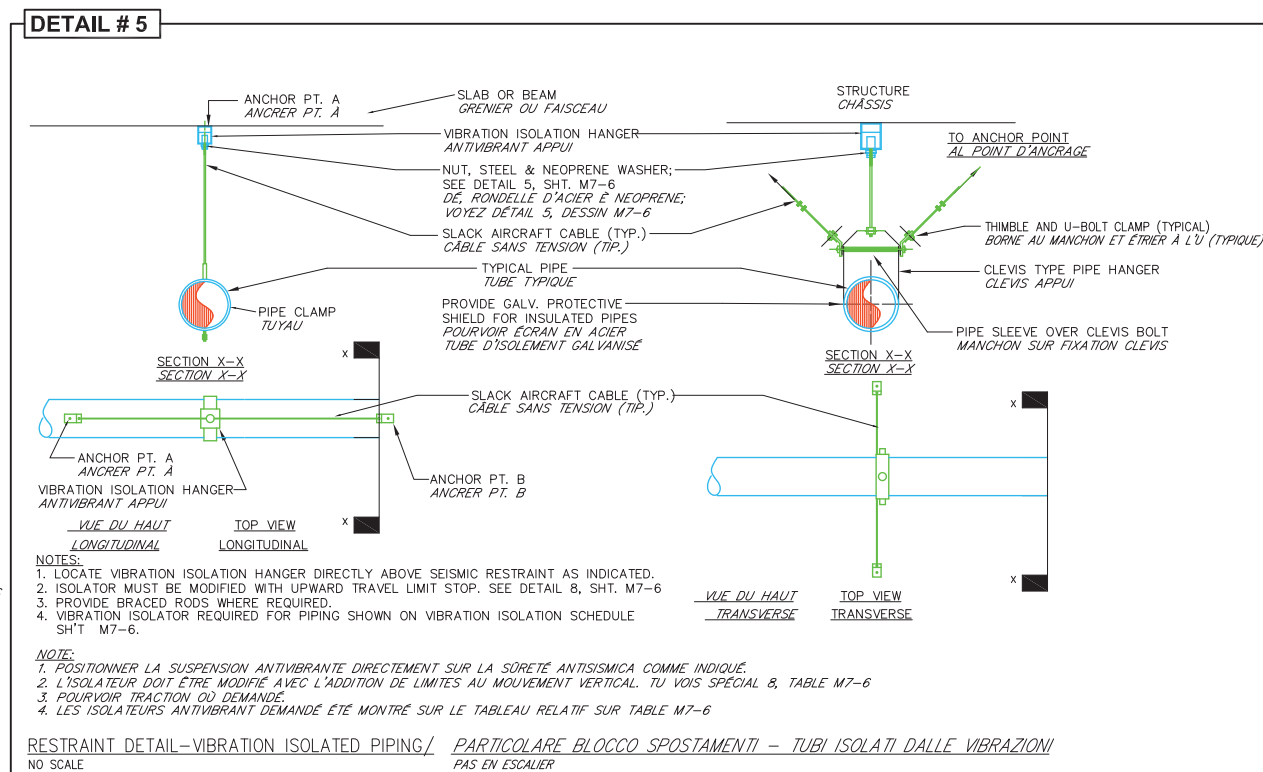
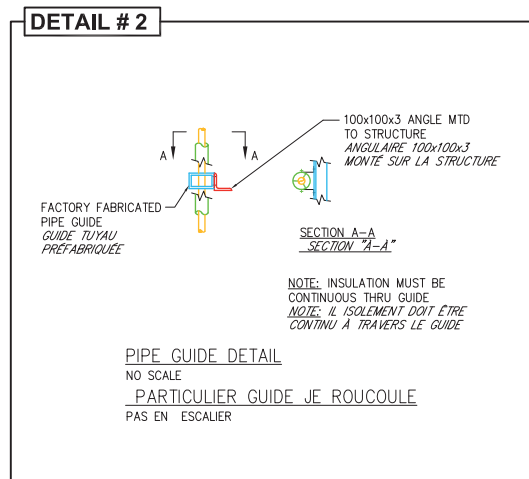
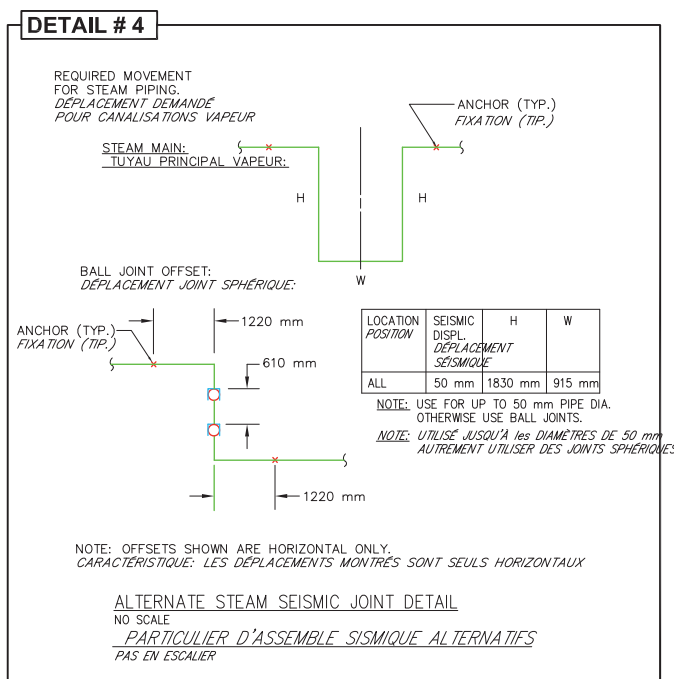
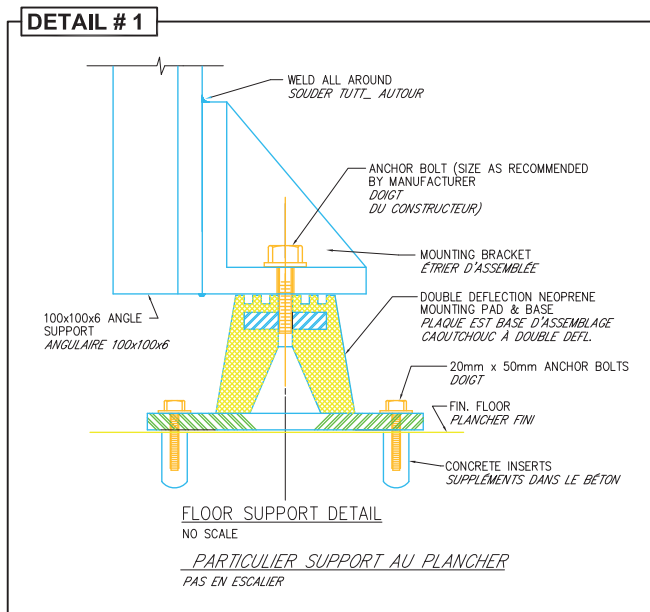


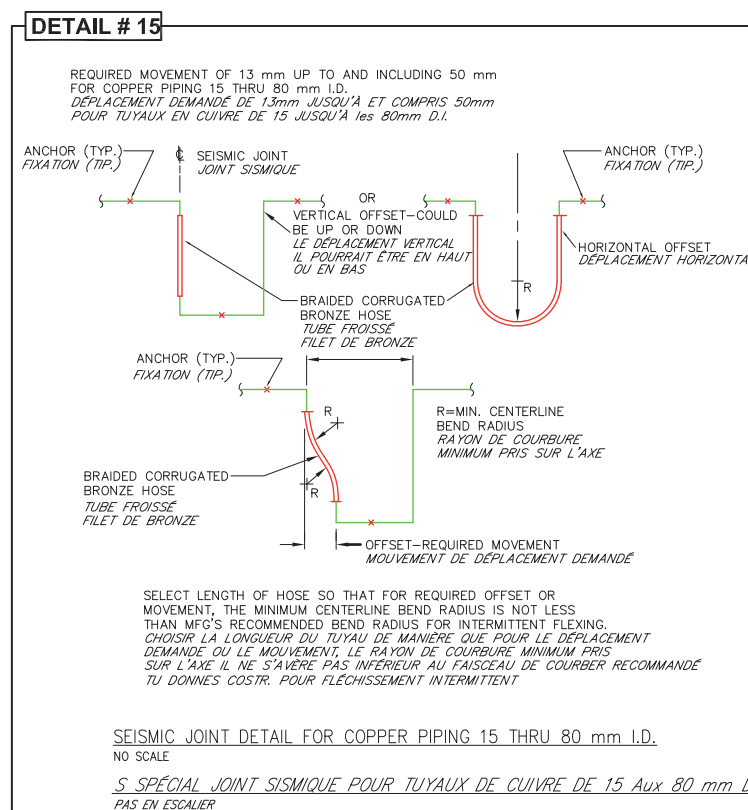
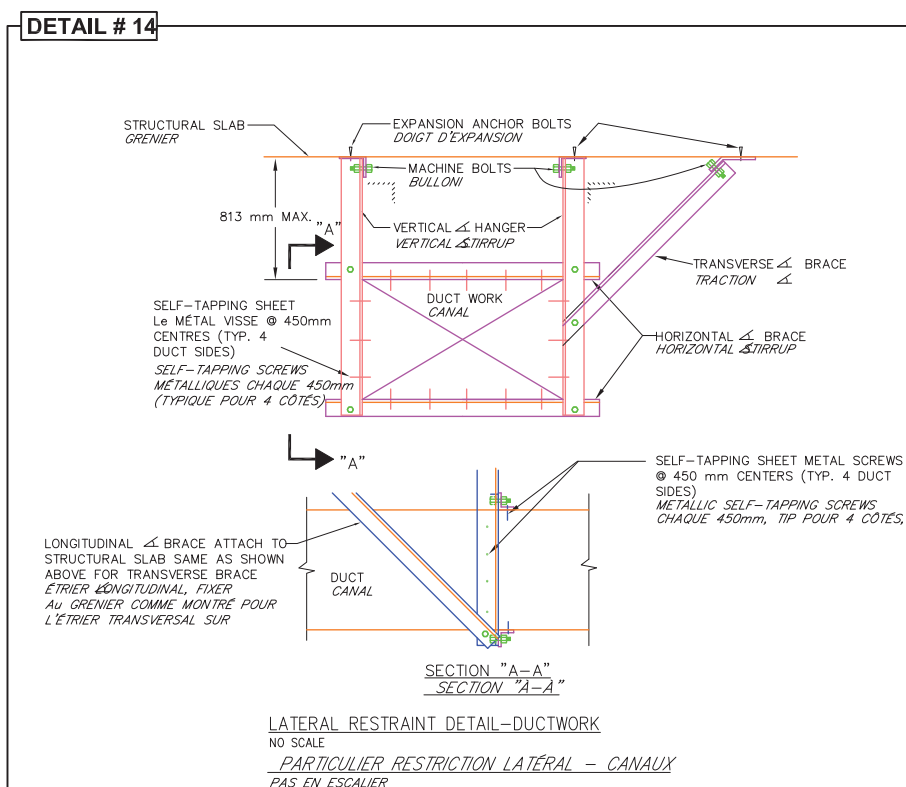
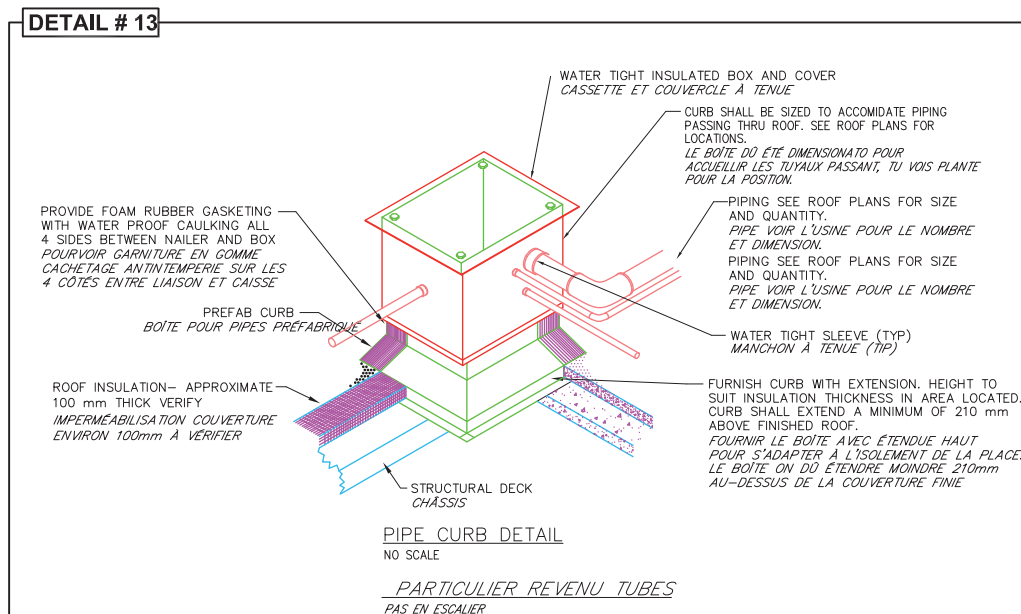
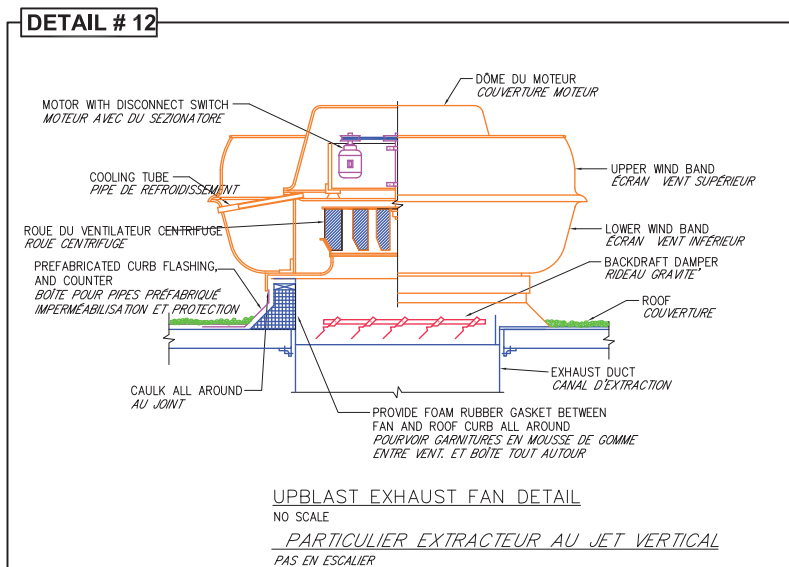
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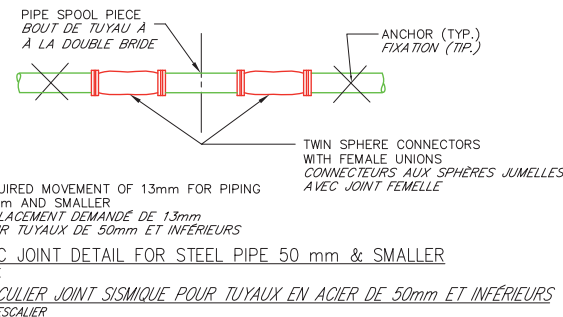
PRISMA ENGINEERING SRL		MDI P02	
VIA XI FEBBRAIO 2/A			
049/8718205 fax 049/8718368			
TIMBRO			
MAS GROUP			
MAGNIFIC A SERVICE			
DETAILS 1			
DETAILS 1			
SCALE:			
LOTTO NO.			
DRAWING NO.			
SHEET 9 OF 30			
E-MD09			



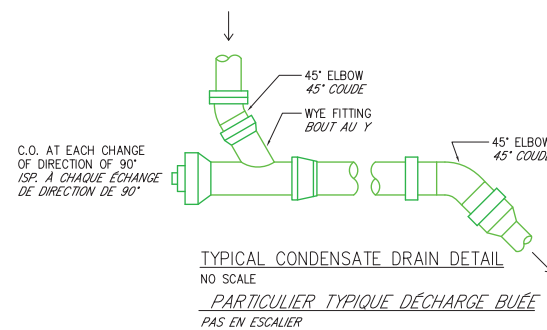
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[illegible]

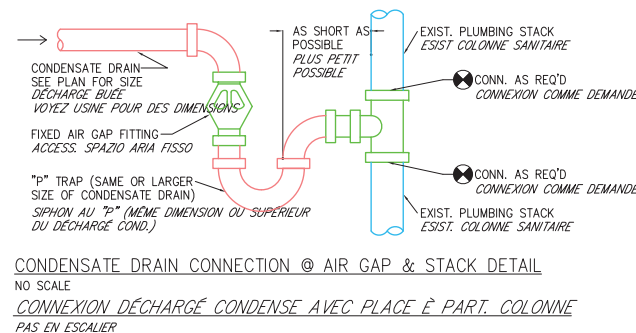
DETAIL # 16



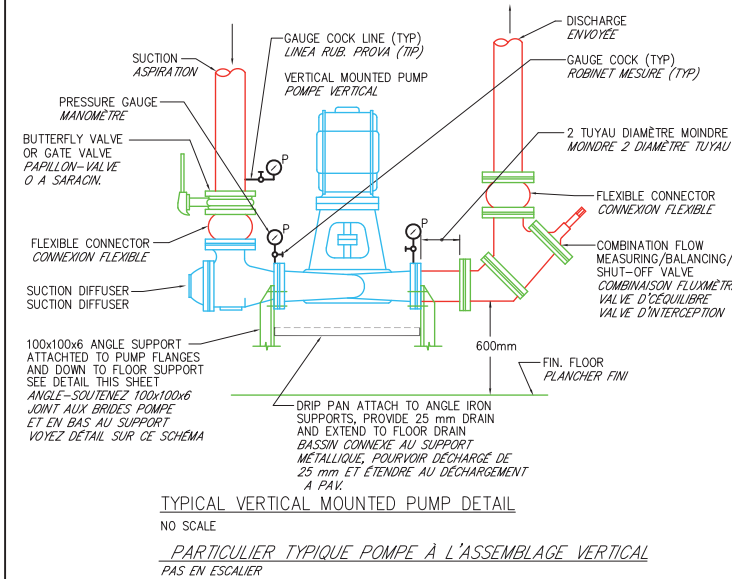
DETAIL # 18



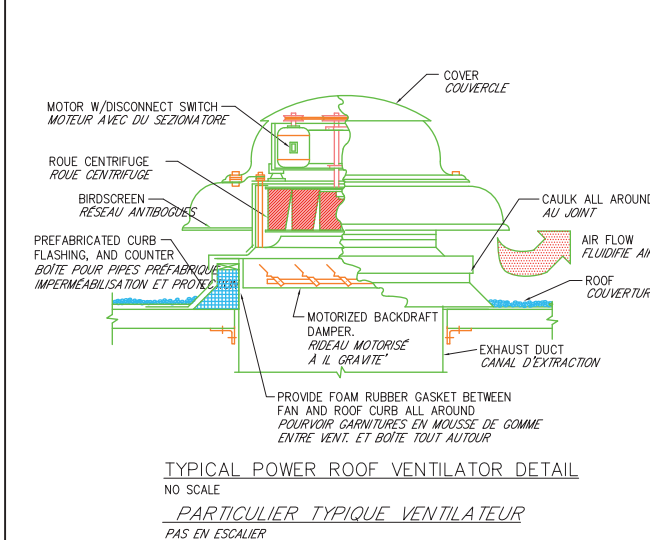
DETAIL # 20



DETAIL # 17



DETAIL # 19

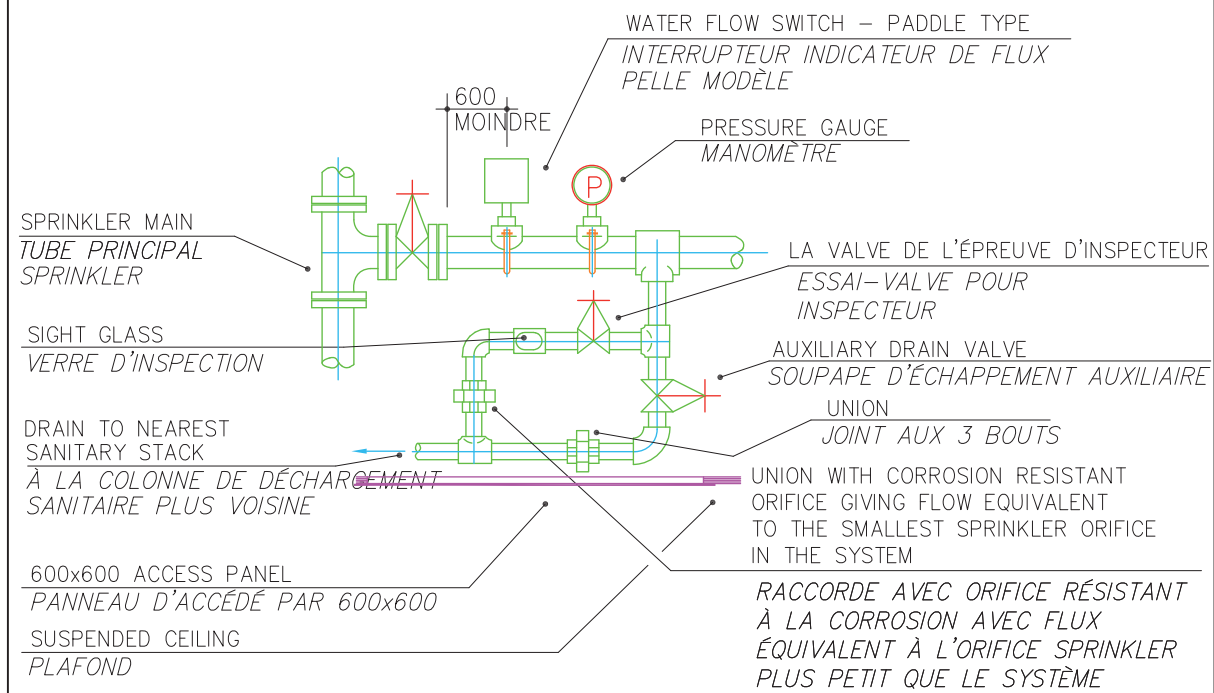


NO.	DATE	DESCRIPTION	BY	CHK	APP
1	16/01/06	1ST EMISSION/1ER EMISSION			
REVISIONS					
PRISMA ENGINEERING SRL					
VIA XI FEBBRAIO 2/A					
00100 - ROMA - ITALY					
Tel. 06/47818005 Fax 06/47791368					
MDI P02					
TIMBRO					
MAS GROUP					
MAGNIFIC A SERVICE					
DETAILS 4					
DETAILS 4					
SCALE:					
LOTTO NO. P02 MDI					
DRAWING NO. MDIP02IM12					
SHEET 12 OF 30					
E-MD12					



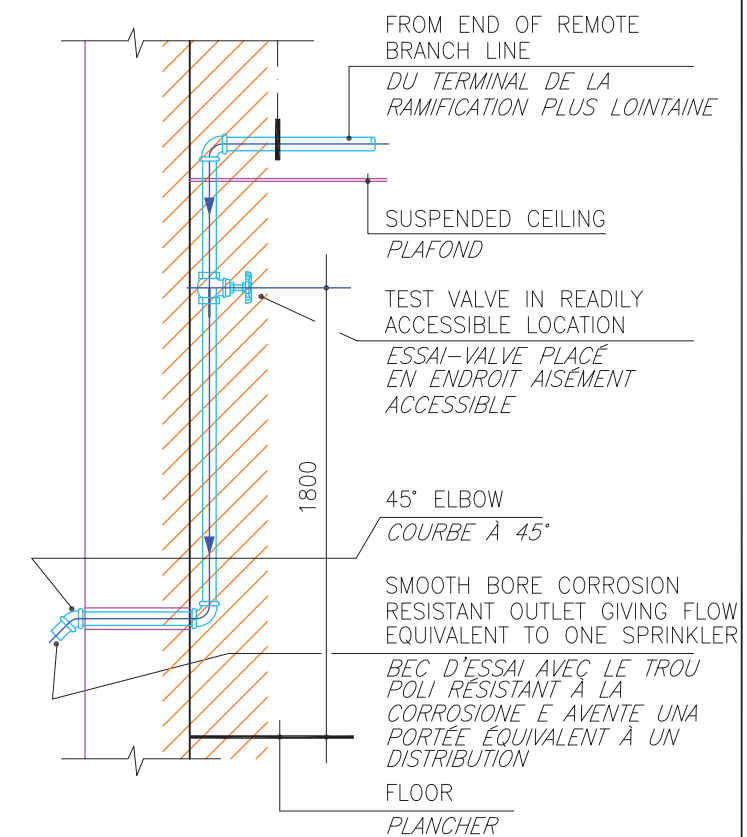


DETAIL # 22



SPRINKLER ZONE VALVE INSTALLATION DETAIL
SPÉCIALE INSTALLATION SOUPAPE SPRINKLER DE ZONE

DETAIL # 23

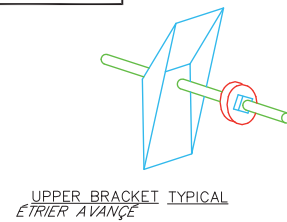


SYSTEM TEST CONNECTION DETAIL
SPÉCIALE LIAISON POUR PREUVE

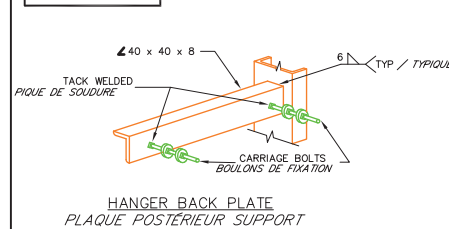
PRISMA ENGINEERING SRL		MDI P02	
VIA XI FEBBRAIO 2/A			
00100 - ROMA (ITALY)			
Tel. 06/47818000 Fax 06/4781800			
MAGNIFIC A SERVICE		*DETAILS 6*	
DETAILS 6		*DETAILS 6*	
SCALE:			
LOTTO NO.		P02 MDI	
DRAWING NO.		MDIP02IM14	
SHEET 14 OF 30			
E-MD14			



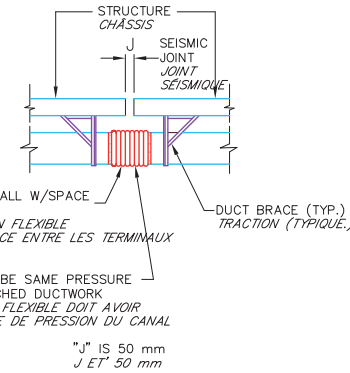
DETAIL # 6


UPPER BRACKET TYPICAL
ETRIER AVANCÉ

DETAIL # 9


HANGER BACK PLATE
PLAQUE POSTÉRIEUR SUPPORT

DETAIL # 7



FLEX. CONN. FREE LENGTH 6J INSTALL W/SPACE
BETWEEN DUCT ENDS 4J
LONGUEUR LIBRE DE LA CONNEXION FLEXIBLE
PARÉS À 6J, INSTALLER AVEC PLAGE ENTRE LES TERMINAUX
DU CANAL MEME 4J

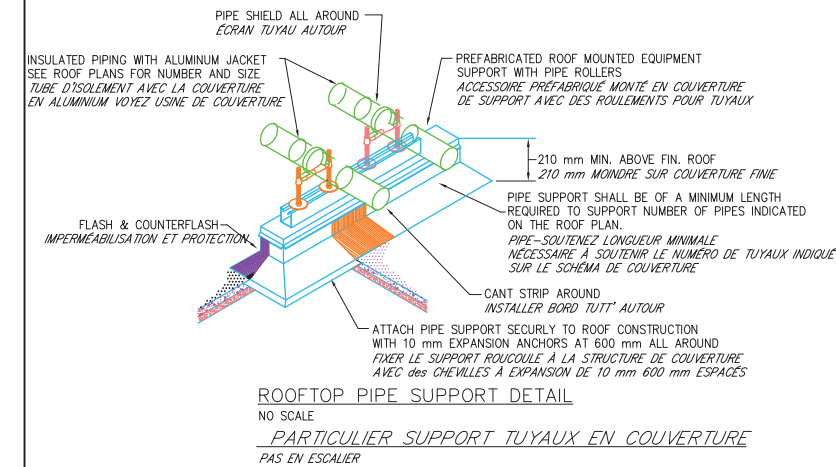
FLEX. CONN. TO BE SAME PRESSURE
CLASS AS ATTACHED DUCTWORK
LE CONNECTEUR FLEXIBLE DOIT AVOIR
LA MEME CLASSE DE PRESSION DU CANAL

"J" IS 50 mm
J ET 50 mm

TYPICAL DUCT CONNECTION AT SEISMIC JOINT

NO SCALE
CONNEXION TYPIQUE DE CANAL AU JOINT SISMIQUE
PAS EN ESCALIER

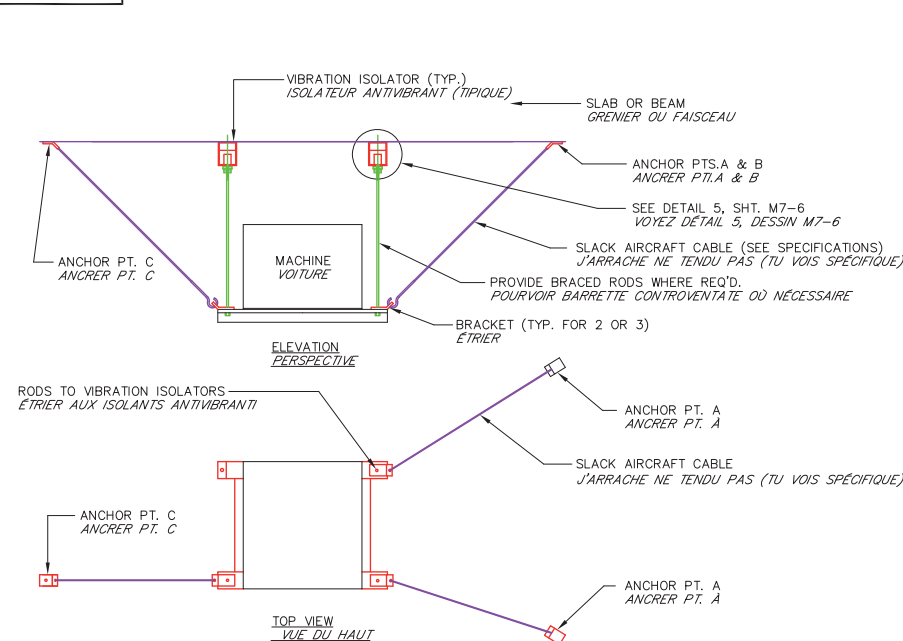
DETAIL # 8



ROOFTOP PIPE SUPPORT DETAIL

NO SCALE
PARTICULIER SUPPORT TUYAUX EN COUVERTURE
PAS EN ESCALIER

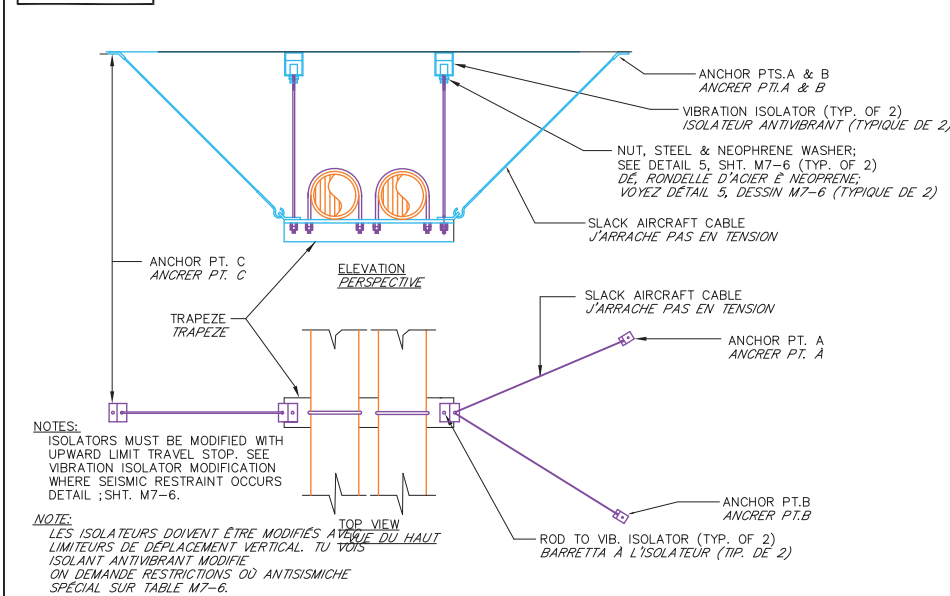
DETAIL # 10



LATERAL RESTRAINT DETAIL - SUSPENDED EQUIPMENT

NO SCALE
U PARTICULIER TRACTION - APPAREILLAGES SUSPENDUS
NO SCALE

DETAIL # 11



NOTES:
ISOLATORS MUST BE MODIFIED WITH
UPWARD LIMIT TRAVEL STOP. SEE
VIBRATION ISOLATOR MODIFICATION
WHERE SEISMIC RESTRAINT OCCURS
DETAIL ; SHT. M7-6.

NOTE:
LES ISOLATEURS DOIVENT ETRE MODIFIES AVEC
LIMITES DE DEPLACEMENT VERTICAL. TU VOIS
ISOLANT ANTIVIBRANT MODIFIE
ON DEMANDE RESTRICTIONS OU ANTISISMICHE
SPECIAL SUR TABLE M7-6.

LATERAL RESTRAINT DETAIL-SUSPENDED VIBRATION
ISOLATED PIPE TRAPEZE

NO SCALE
PARTICULIER RESTRICTION LATÉRAL - SUSPENSION ANTIVIBRANT
TRAPEZE TUYAU ISOLÉ
PAS EN ESCALIER

NO.	DESCRIPTION	DATE	APPROVED
1	1ST DMSION/IER DMSION	16/11/06	L.V.
REVISIONS			
00	SYM		
PRISMA ENGINEERING SRL			
VIA XI FEBBRAIO 2/A			
00198 ROMA (RM) - TEL. 06/7791368			
MDI P02			
TIMBRO			
MAS GROUP			
MAGNIFIC A SERVICE			
DETAILS 7			
DETAILS 7			
SCALE:			
LOTTO NO. P02 MDI			
DRAWING NO. MDIP02IM15			
SHEET 5 OF 30			
E-MD15			



capannone: ENDECO

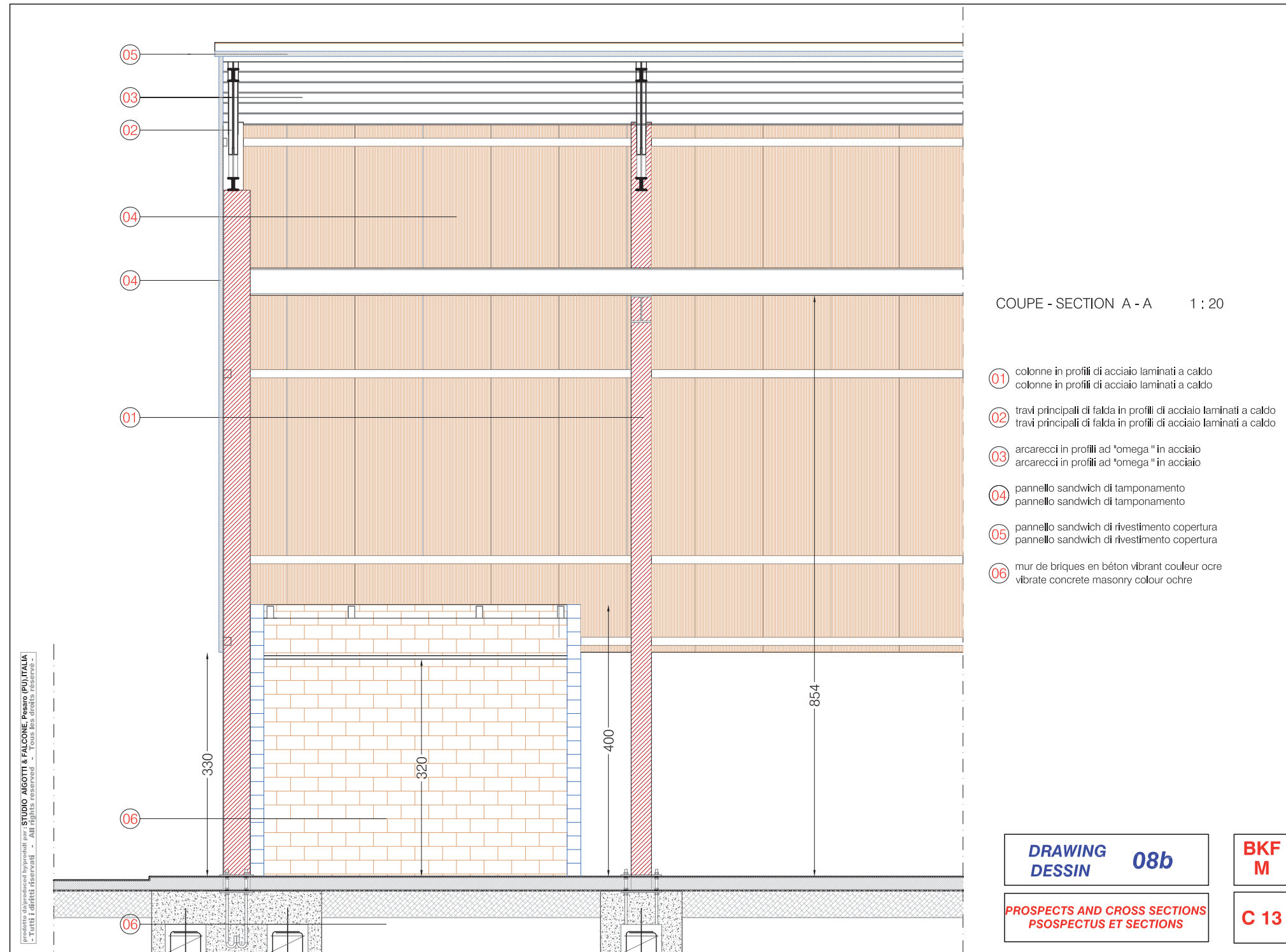
ART.	DESCRIZIONE	UNITA' MIS.		
1	TRAVI DA ML. 6	N.	196	
2	TRAVI DA ML. 12,5	N.	174	
3	PLINTI	N.	203	116
4	DIMENSIONI ESTERNE CAPANNONE	ML.	169,02	75,66
5	LUNGHEZZA MURATURE DA 10 CM.	ML.	12,18	
6	LUNGHEZZA MURATURE DA 20 CM.	ML.	130,2	
7	SUPERFICE DEI SERVIZI (UFF. W.C. SPOGL.)	MQ.	208	
8	SUPERFICE DEI RIVESTIMENTI W.C.	MQ.	208,6	
9	SCALE	N.	0	
10	PORTE INTERNE DA 90	N.	18	
11	PORTE INTERNE DA 160	N.	0	
12	PORTE EXT AD IMPACCHETTAMENTO	N.	0	
13	PORTE INTERNE SEZIONALI	N.	0	
14	PORTONCINI DI INGRESSO 160 CIRCA	N.	2	
15	SUPERFICI FINESTRE	MQ.	25,5	
16	CENTRALI DI BETONAGGIO	N.	2	

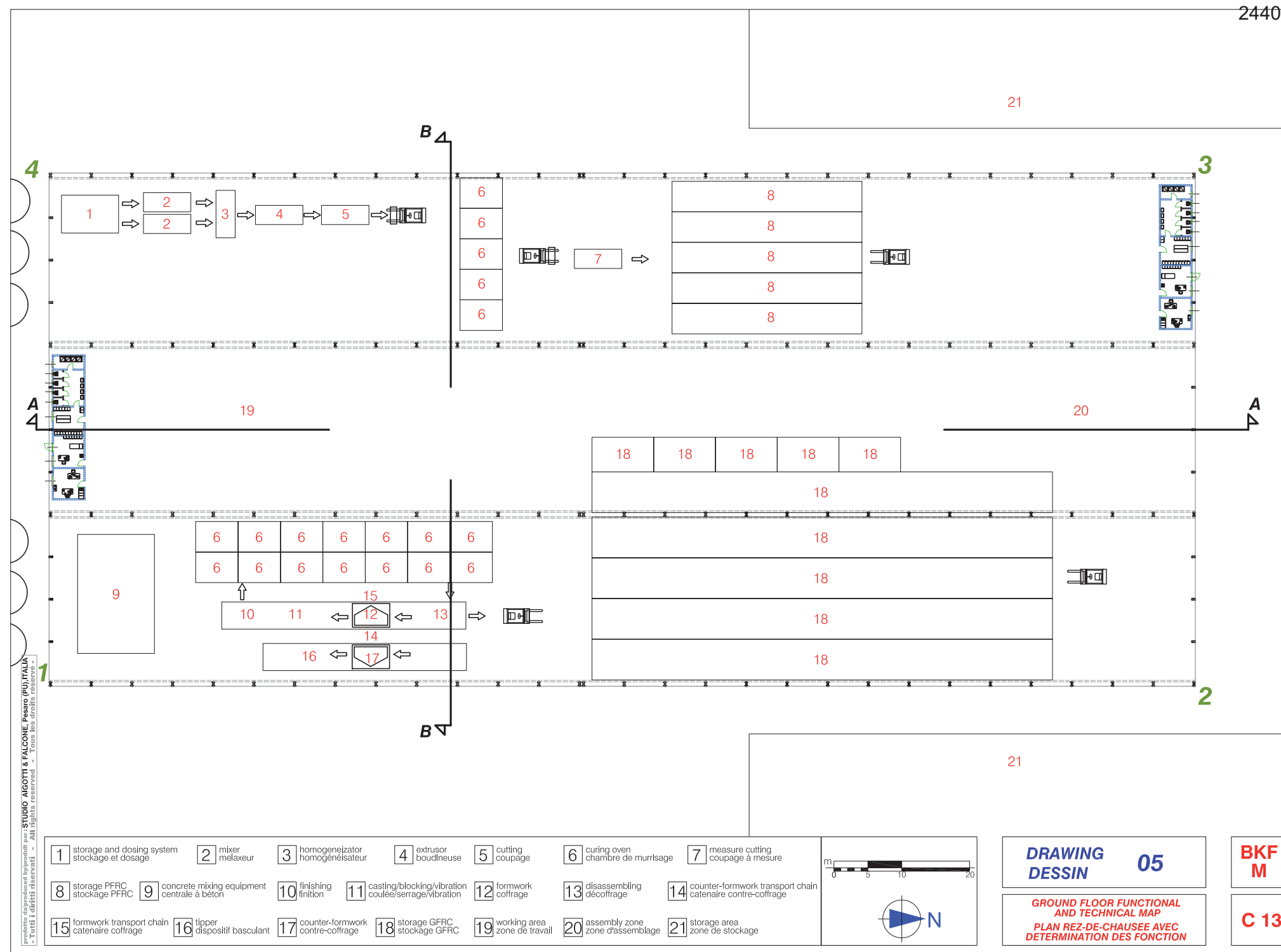


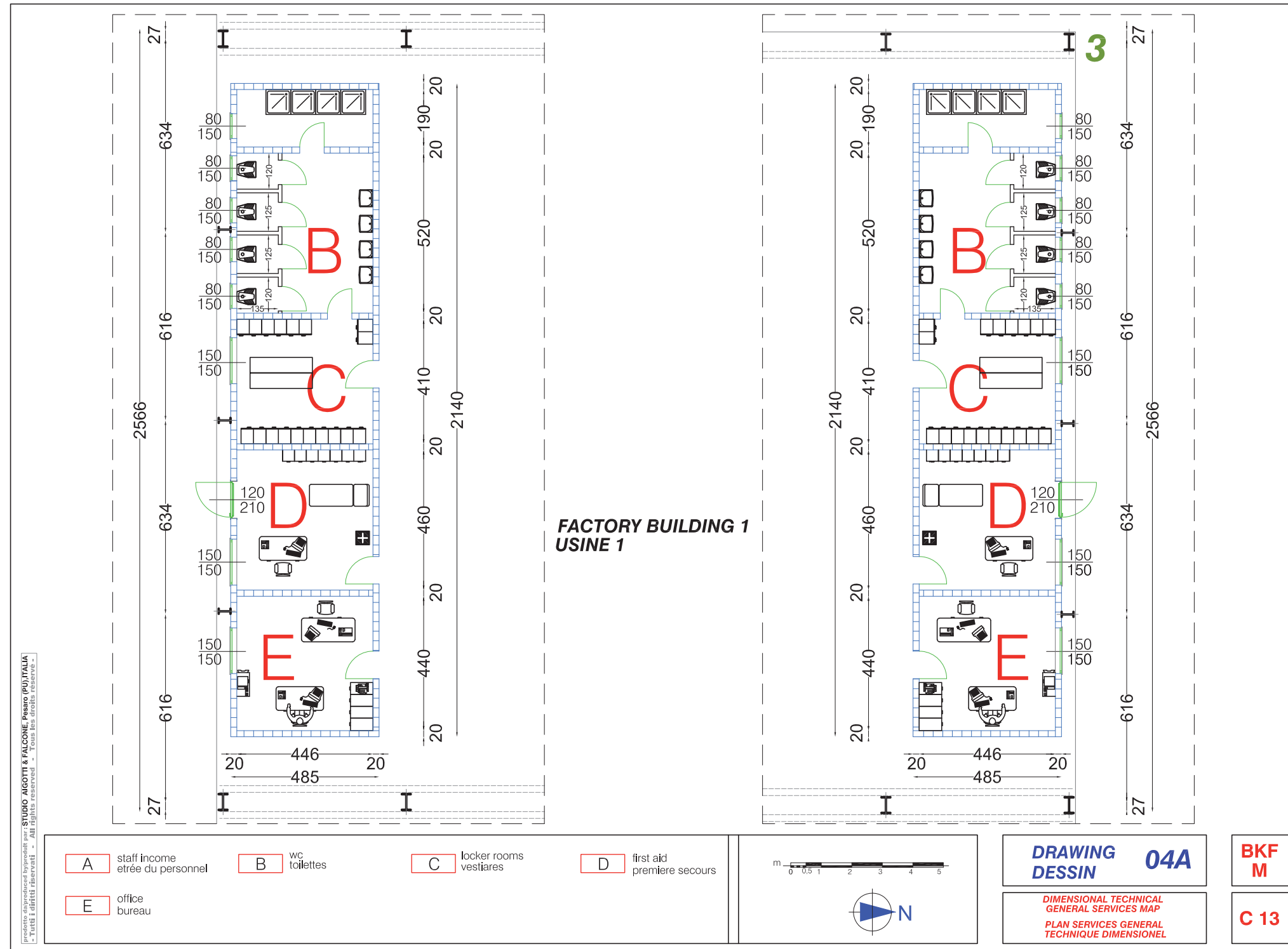
GRUPPO MAS									
LOTTO		ALFREDO	SISTEMAZIONI	PAESE	COSTA D'AVORIO	UNICA			
			ESTERNE		SOCIETA'	ENDECO			
PARAMETRI SIGNIFICATIVI									
N.	CADICE ART.	DESCRIZIONE SINTETICA	U.M	Q.TA'	PR. UN.	IMPORTO	NOTE		
CAPITOLO									
%									
SCAVI									
1	02.01.01a	Scavi a sezione obbligata, etc.	mc.	818,93	11,44	9.368,54			
2	02.02.01a	Reinterri , etc.	mc.	856,41	6,14	5.258,35			
3	02.02.03b	Fornitura, stessa e cilindratura, etc..	mc.	6.156,60	18,59	114.451,19			
		TOTALE CAPITOLO		129.078,08		129.078,08		10,62	
CALCESTRUZZI-ACCIAIO-CASSERI									
4	03.01.09a	Calcestruzzo per magroni, etc..	mc.	82,85	75,07	6.219,40			
5	03.01.10c	Calcestruzzo in fondazione, etc..	mc.	280,05	94,36	26.425,33			
6	12.01.01	Additivo antiriverti	kg.	6.576,67	5,00	32.883,36			
7	03.04.01b	Acciaio FeB44k	kg.	16.802,88	1,08	18.147,11			
8	3.04.02	Rete elettrosaldata, etc.	kg.	162.123,80	1,32	214.003,42			
9	03.01.11a	Casseformi in legno, etc.	mq.	261,24	21,69	5.666,30			
		TOTALE CAPITOLO		303.344,91		303.344,91		24,96	
PAVIMENTI E RIVESTIMENTI									
10	12.01.04a	Pavimento industriale	mq.	20.522,00	28,40	582.824,80			
11	12.01.04b	Trattamento antipolvere, etc.	mq.	20.522,00	3,46	71.006,12			
		TOTALE CAPITOLO		653.830,92		653.830,92		53,81	
CANCELLI									
12	12.01.11	Cancelli scorrevoli in ferro, etc compresa automazione	kg.	4.193,20	3,00	12.579,60			
		TOTALE CAPITOLO		12.579,60		12.579,60		1,04	
SISTEMAZIONE AREE VERDI									
13	14.01.01	Stesa e modellazione terra di coltivo, etc	mc.	4.190,00	26,25	109.987,50			
14	14.01.02	Atatura meccanica, etc..	mq.	4.190,00	0,315	1.319,85			
15	14.01.03	Vangatura meccanica, etc..	mq.	4.190,00	0,222	930,18			
16	14.01.04	Messa a dimora piante, etc..	cad.	40	100,00	4.000,00			
17	14.01.05	Formazione di prato, etc.. compreso seme	mq.	0,00	3,00	0,00			
18	14.01.06	Concimazione piante, etc..	cad.	40	0,60	24,00			
19	14.01.07	Concimazione prato, etc..	mq.	0,00	0,52	0,00			
		TOTALE CAPITOLO		116.261,53		116.261,53		9,57	
		TOTALE LAVORI		1.215.095,04				100	

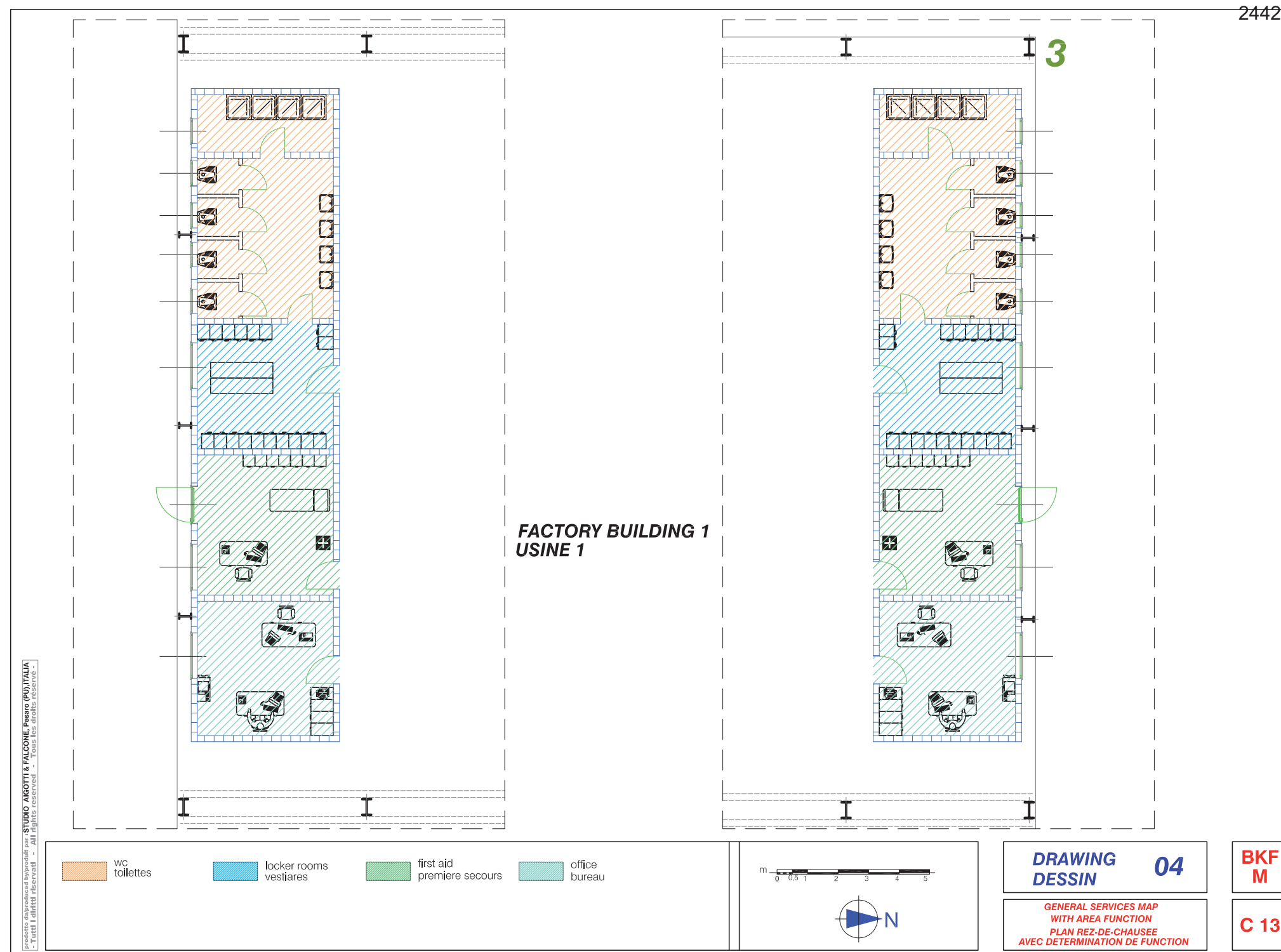
QUADRO RIEPILOGATIVO		ENDECO	
COSTO TOTALE	Euro	1.215.095,04	
TOTALE AREE ESTERNE	mq.	24.712,00	
COSTO MEDIO	Euro/m	49,17	

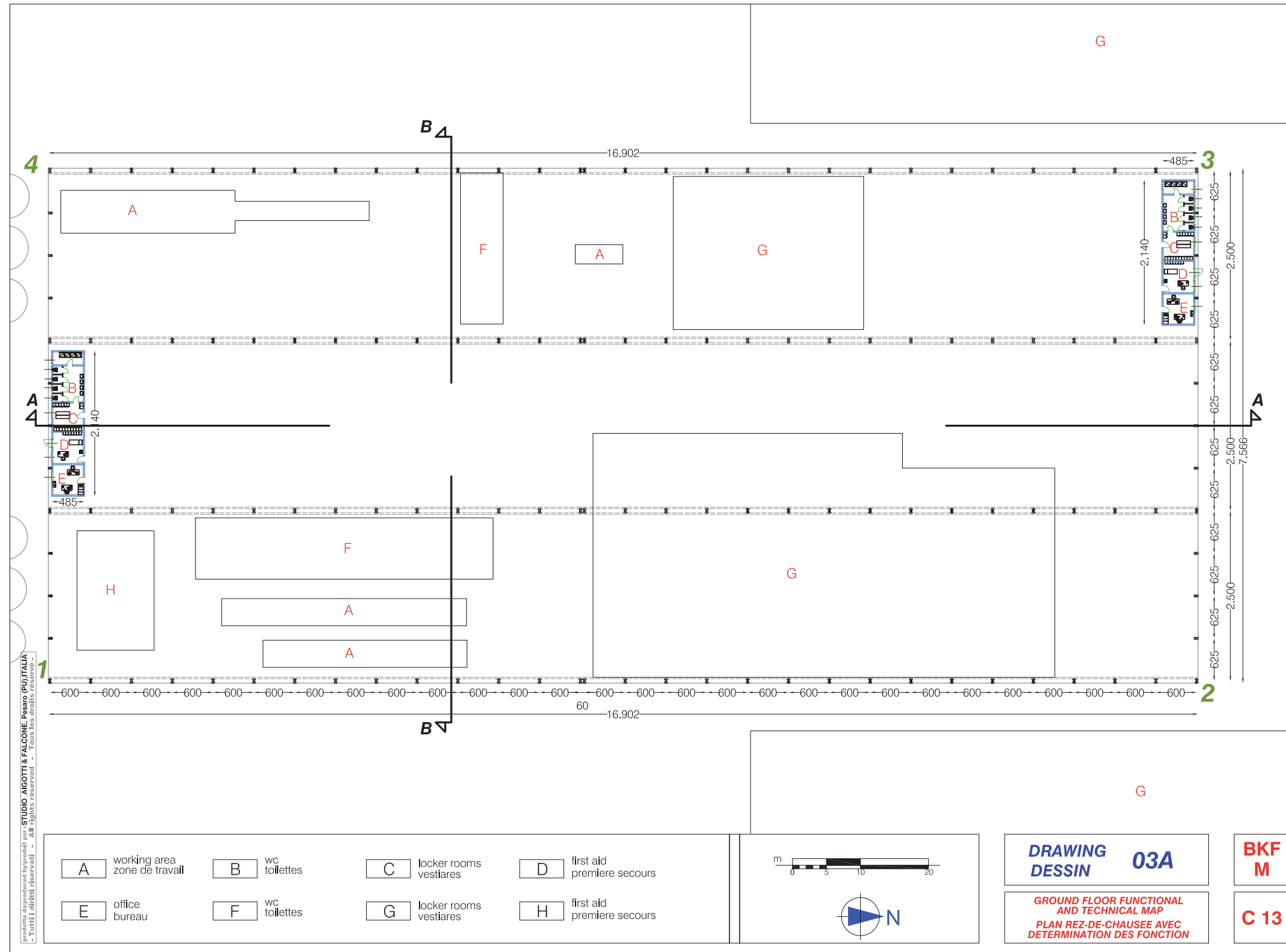


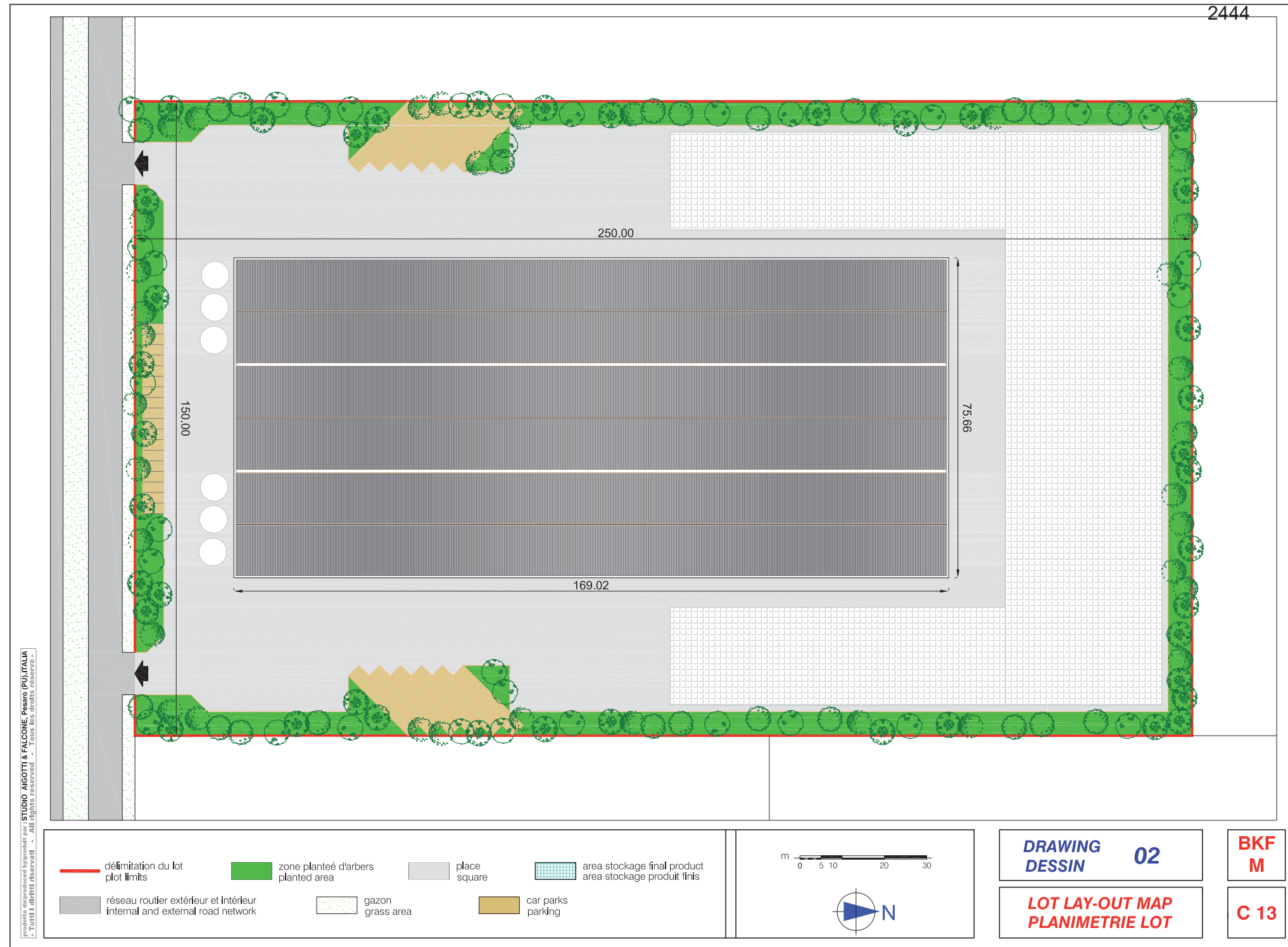


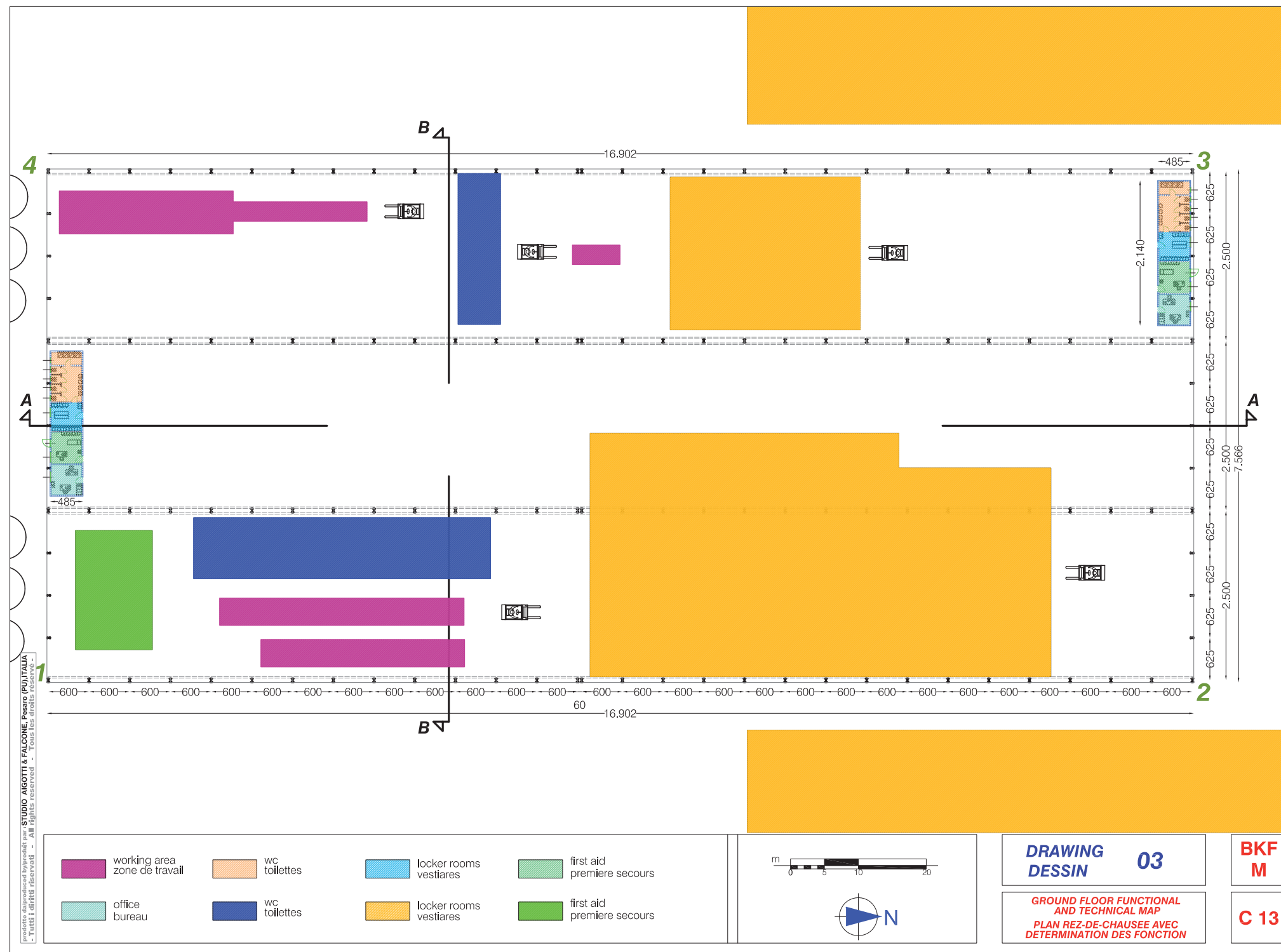


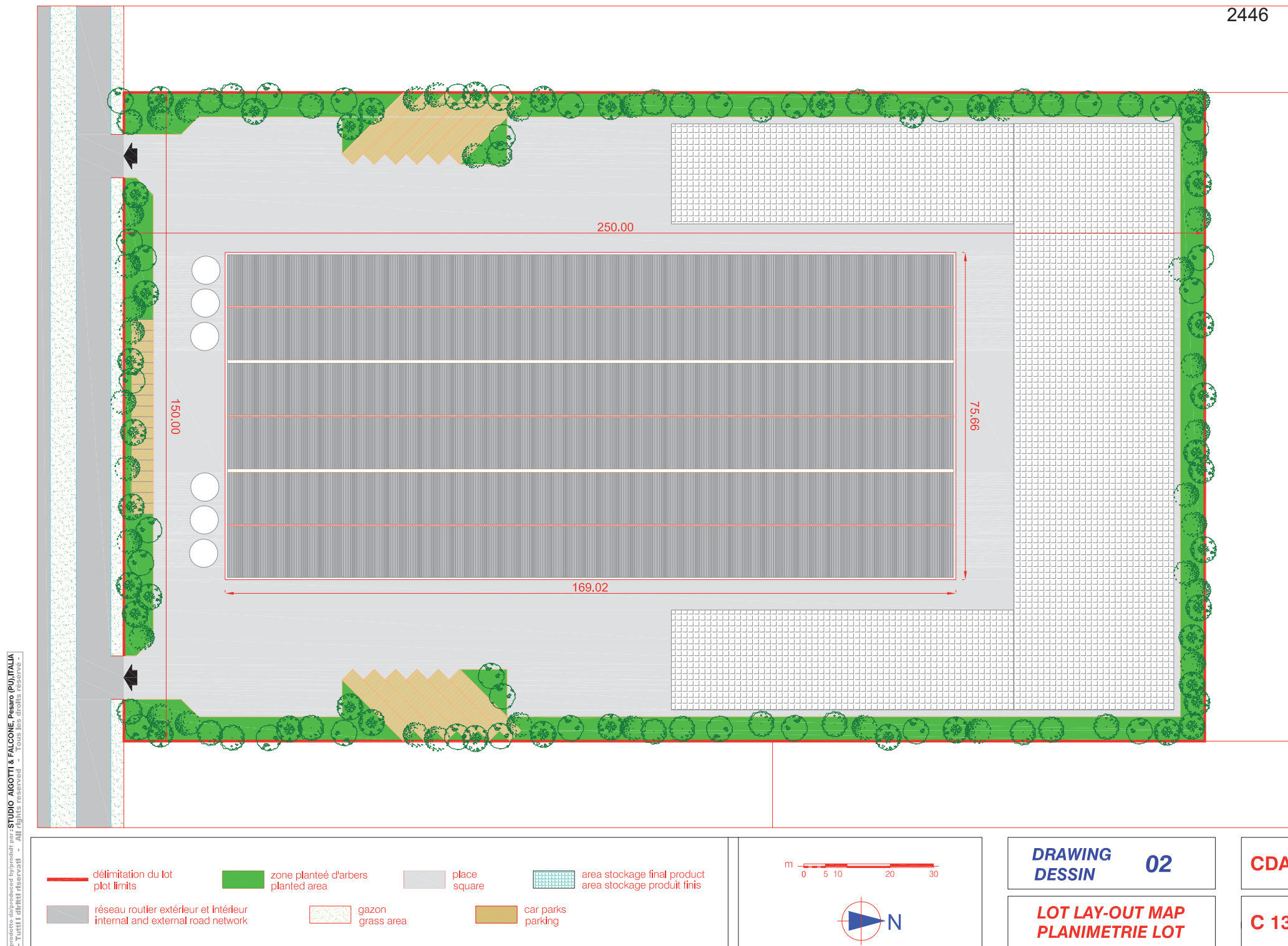


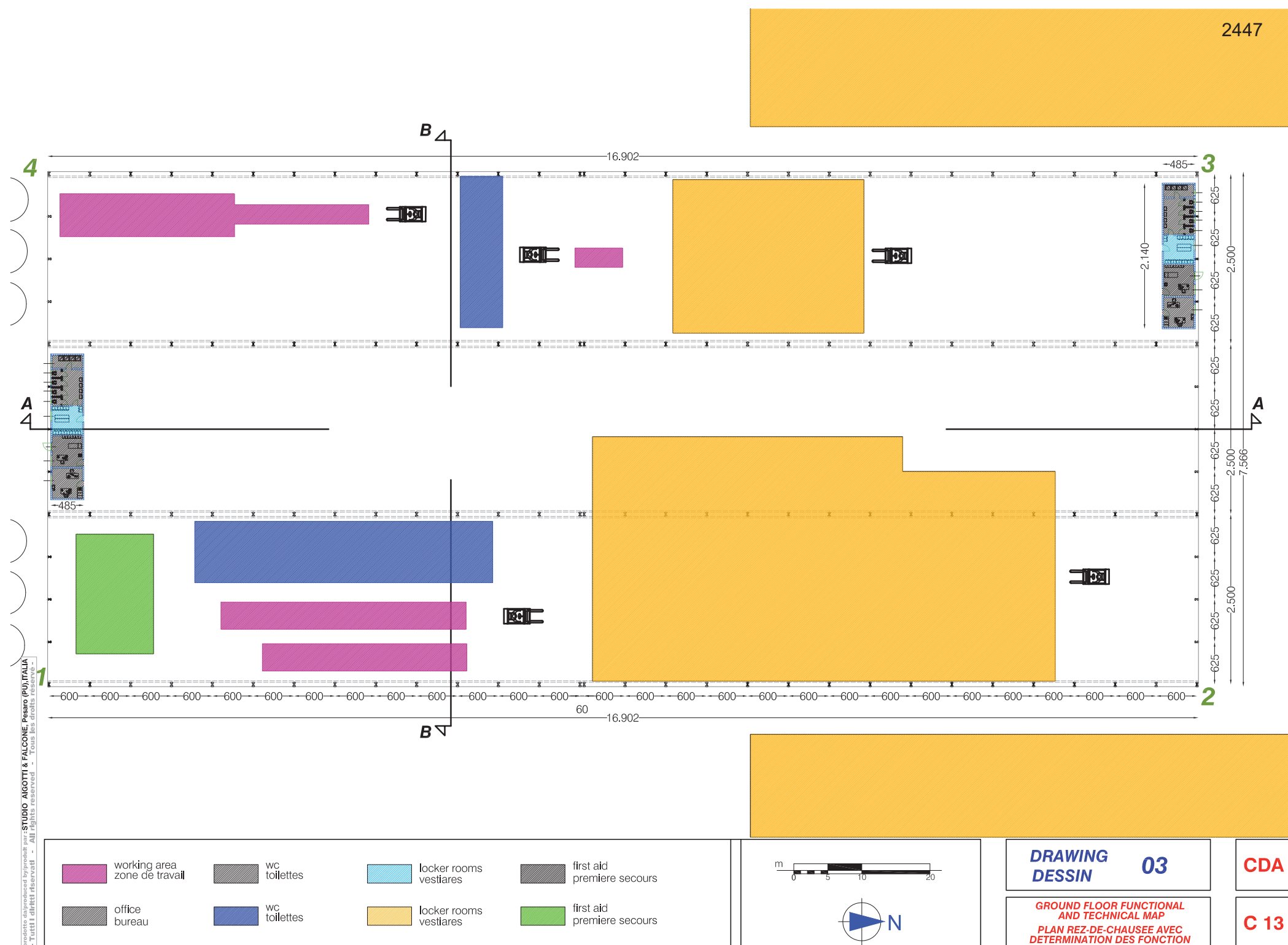


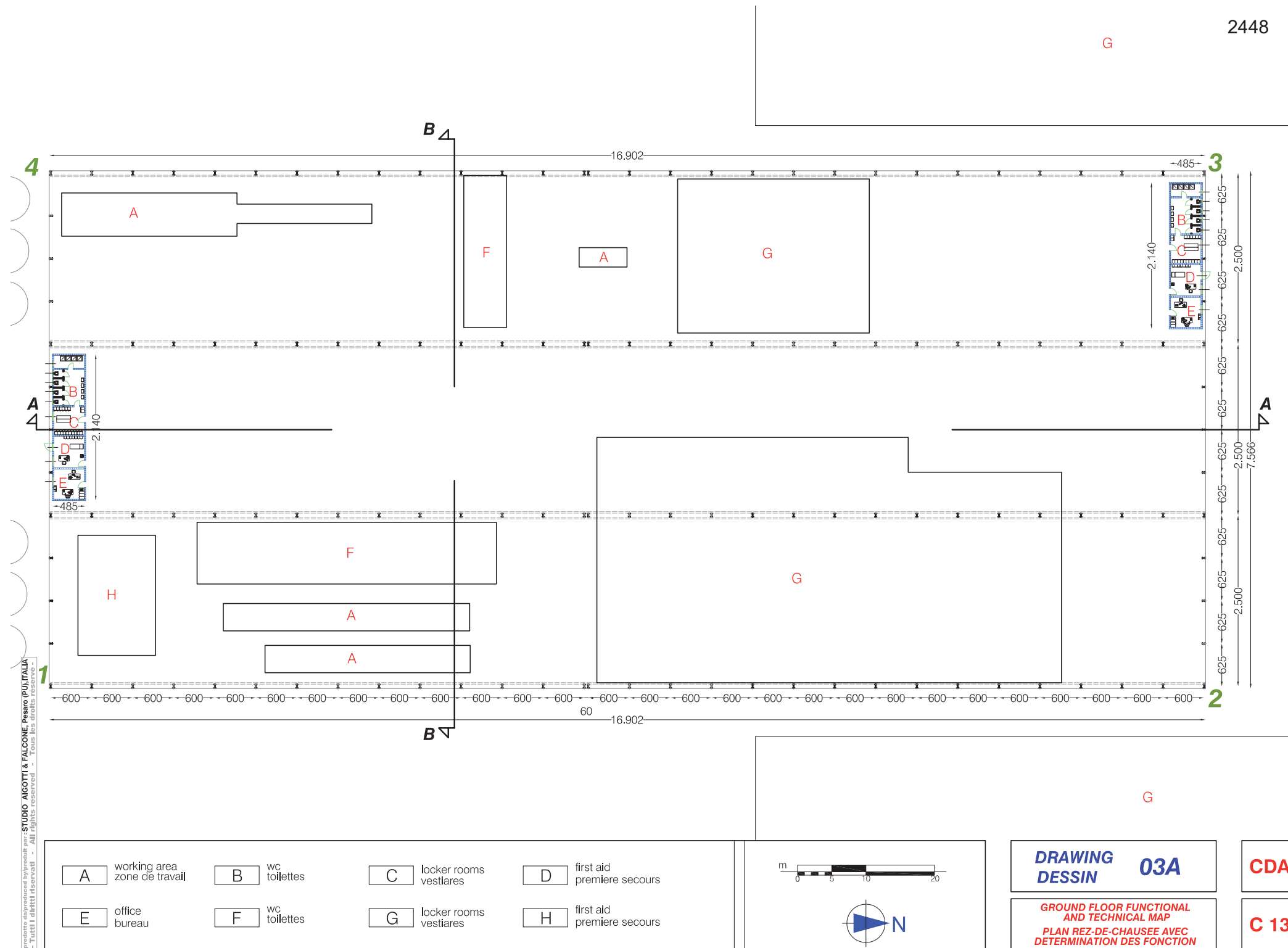


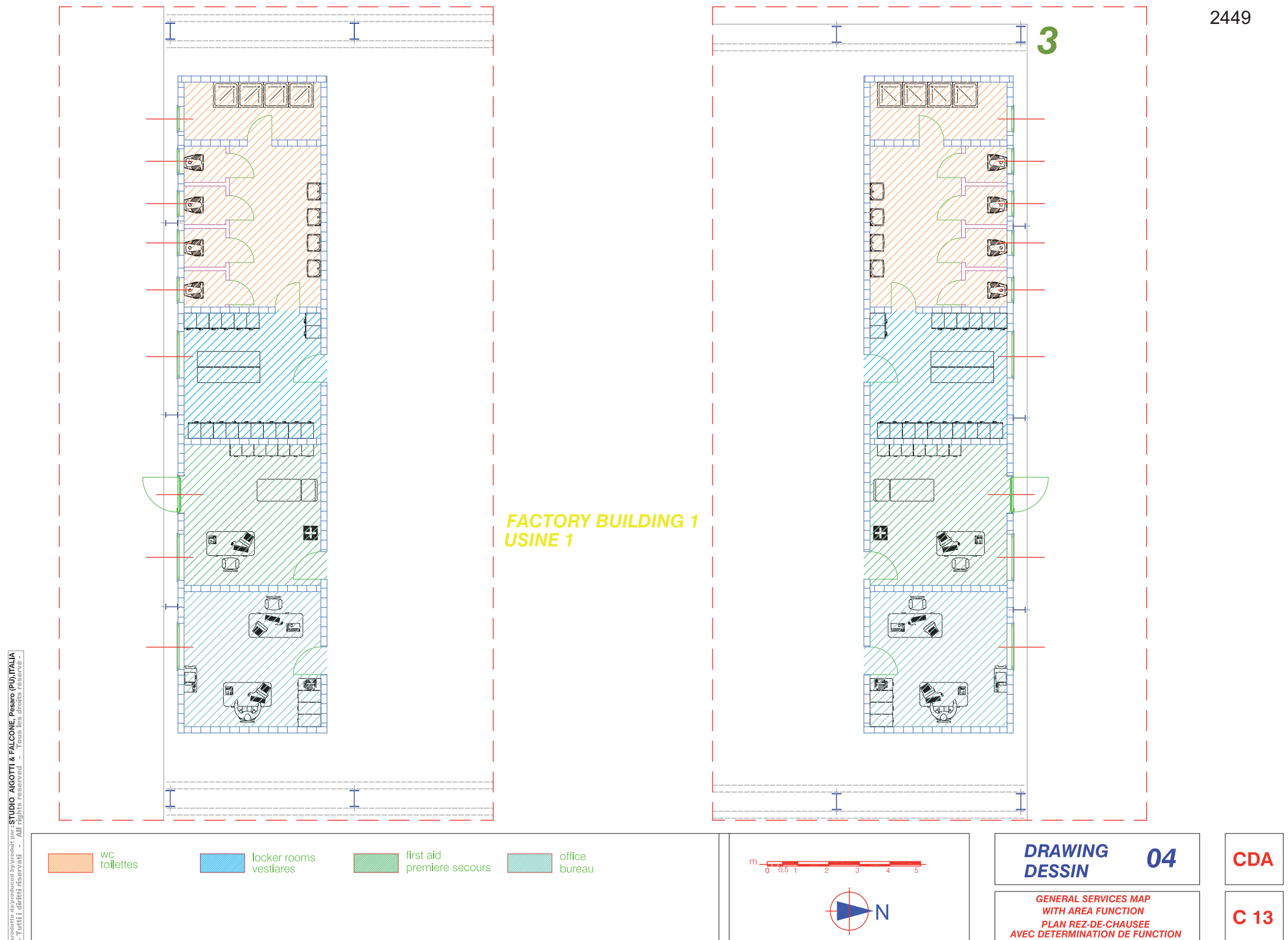


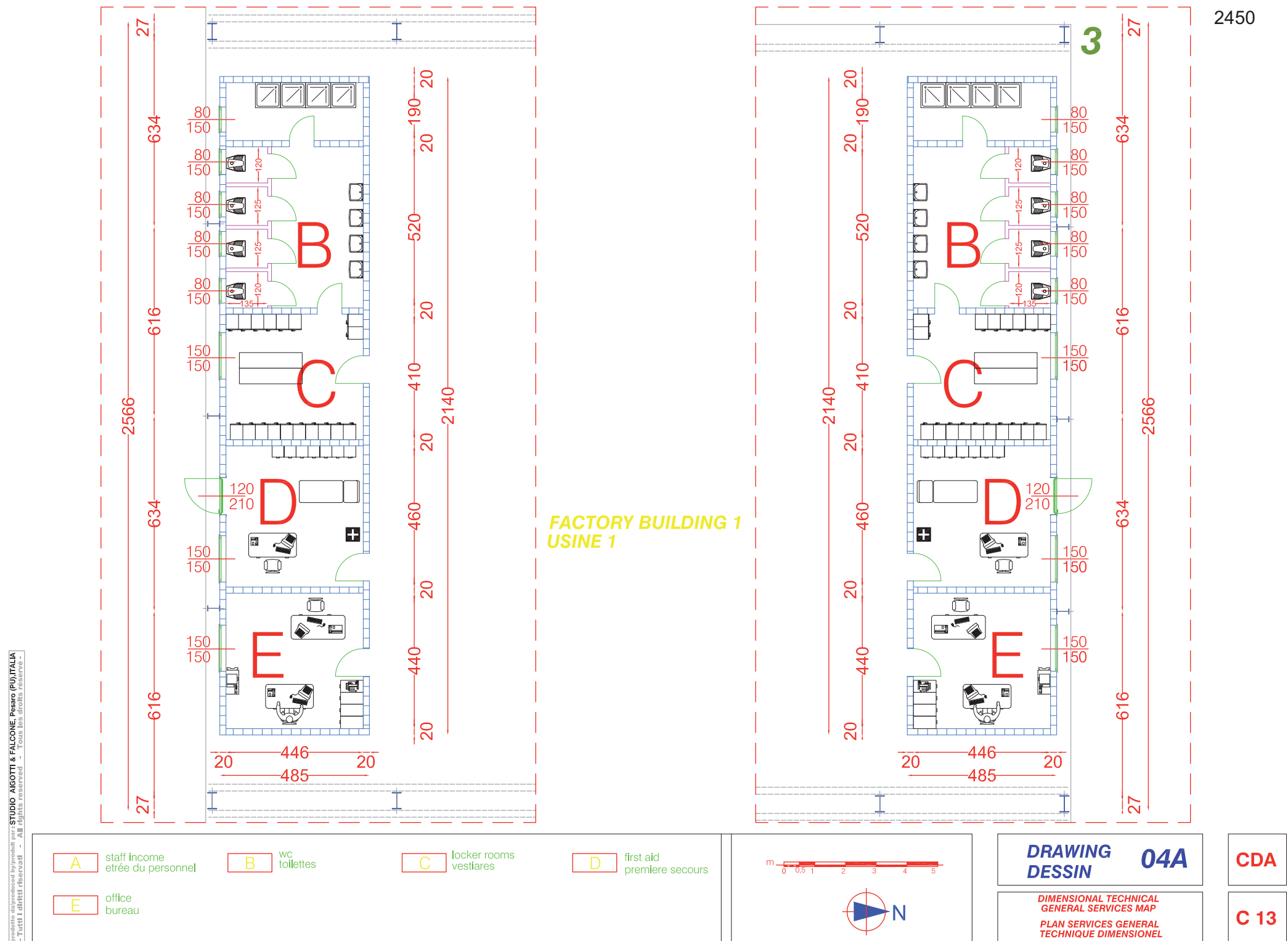


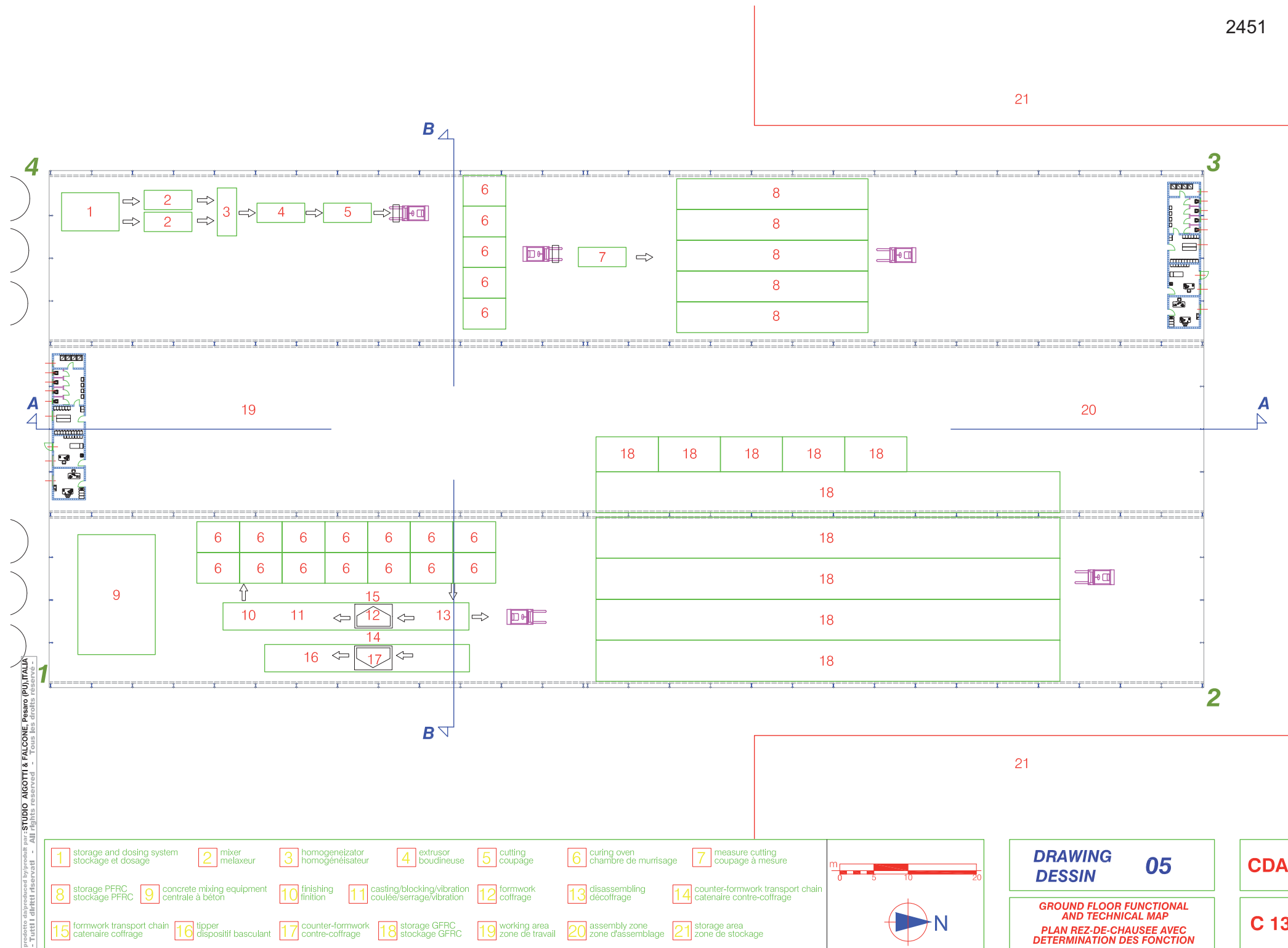


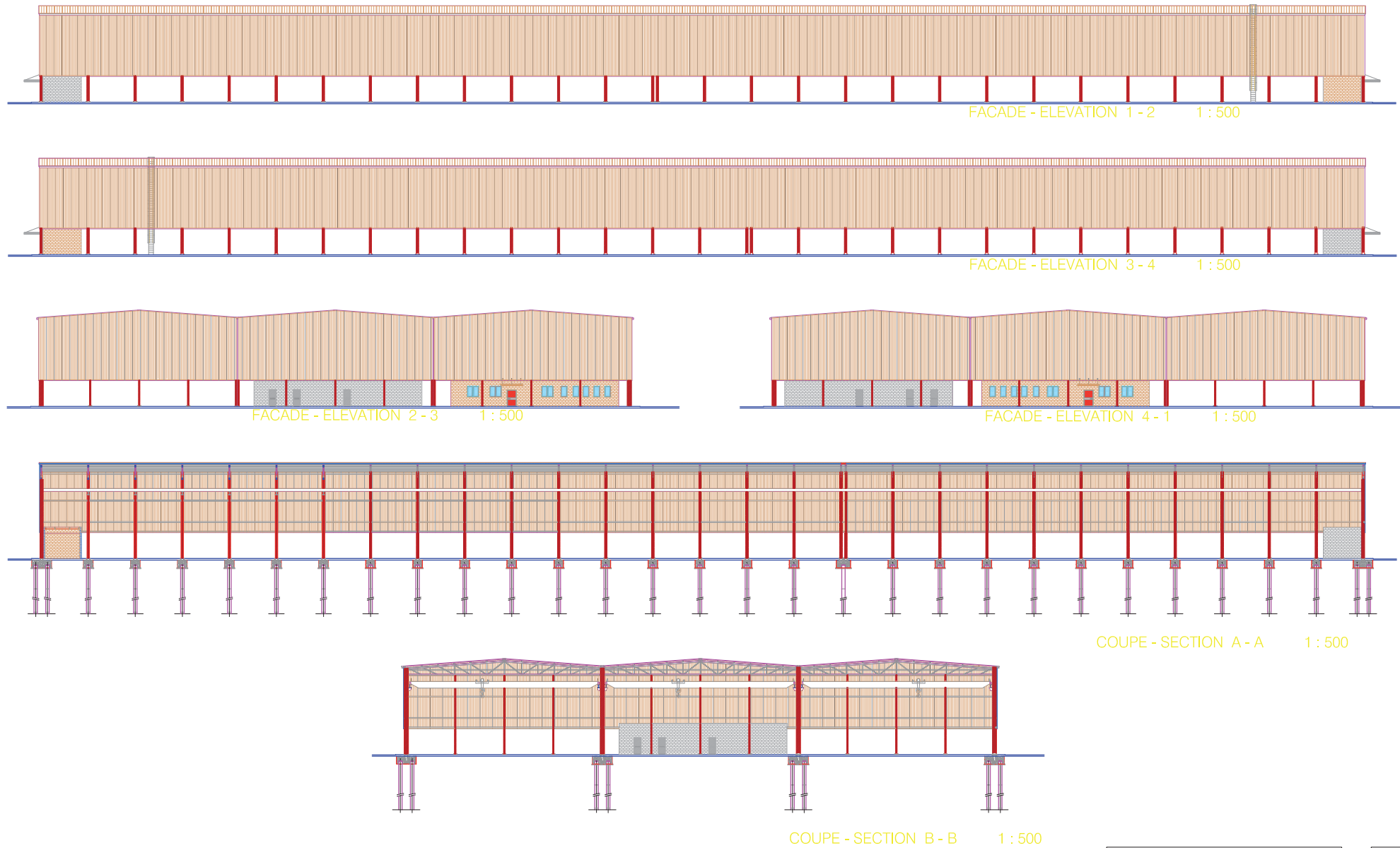












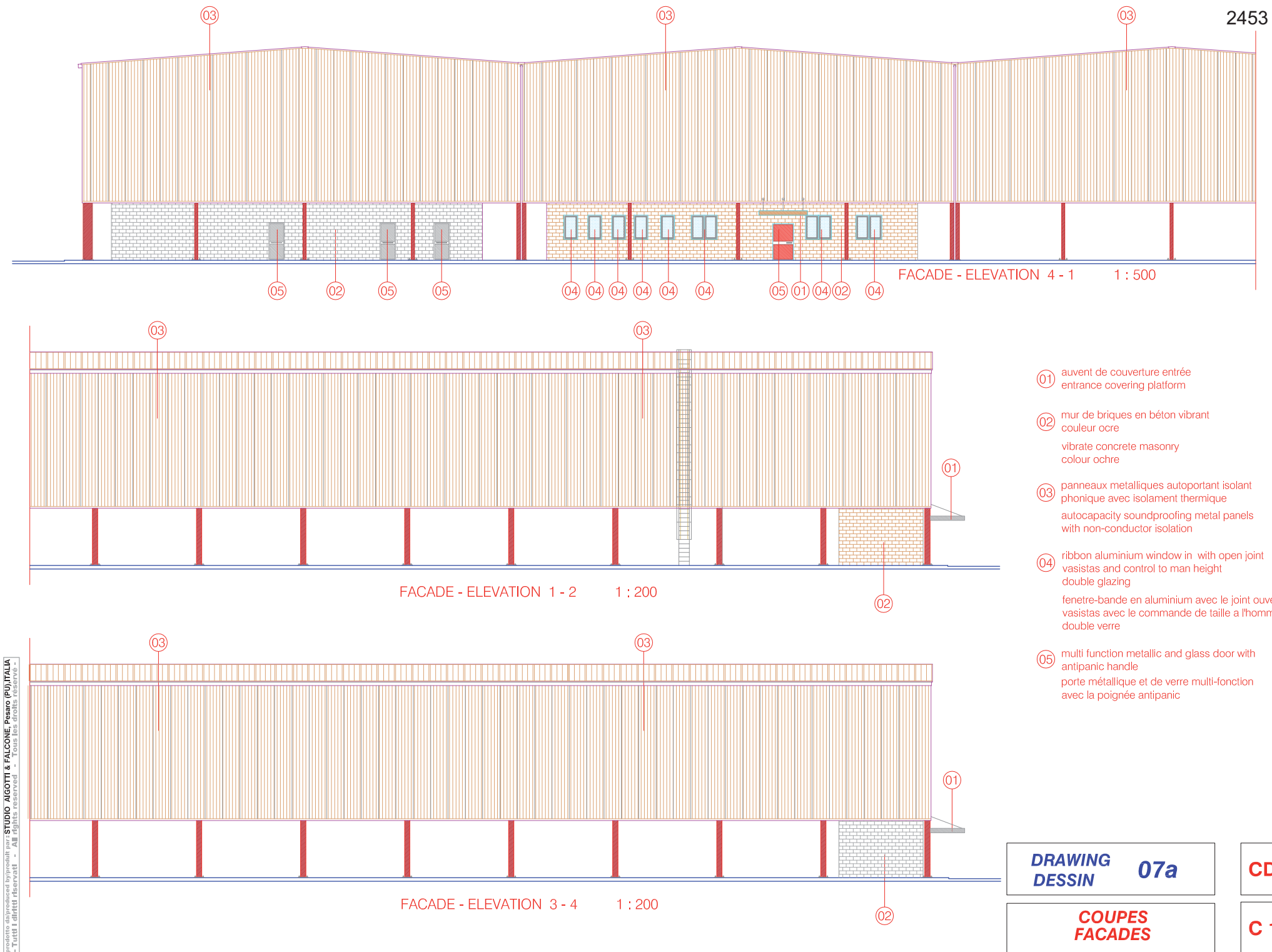
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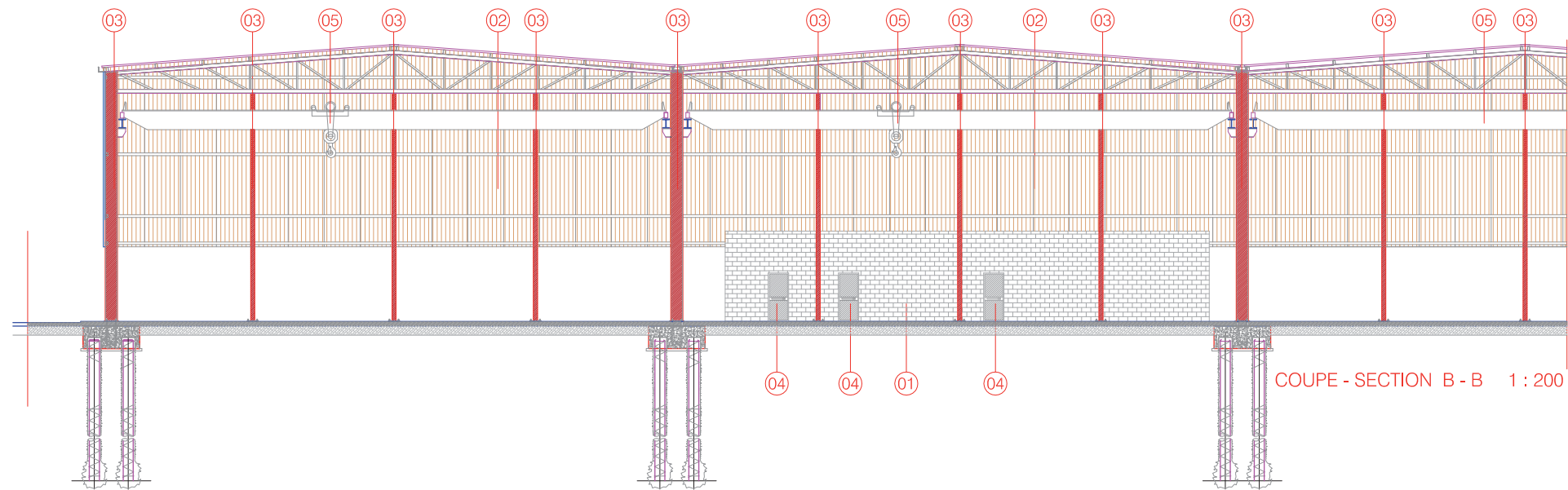
DRAWING
DESSIN **06**

PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

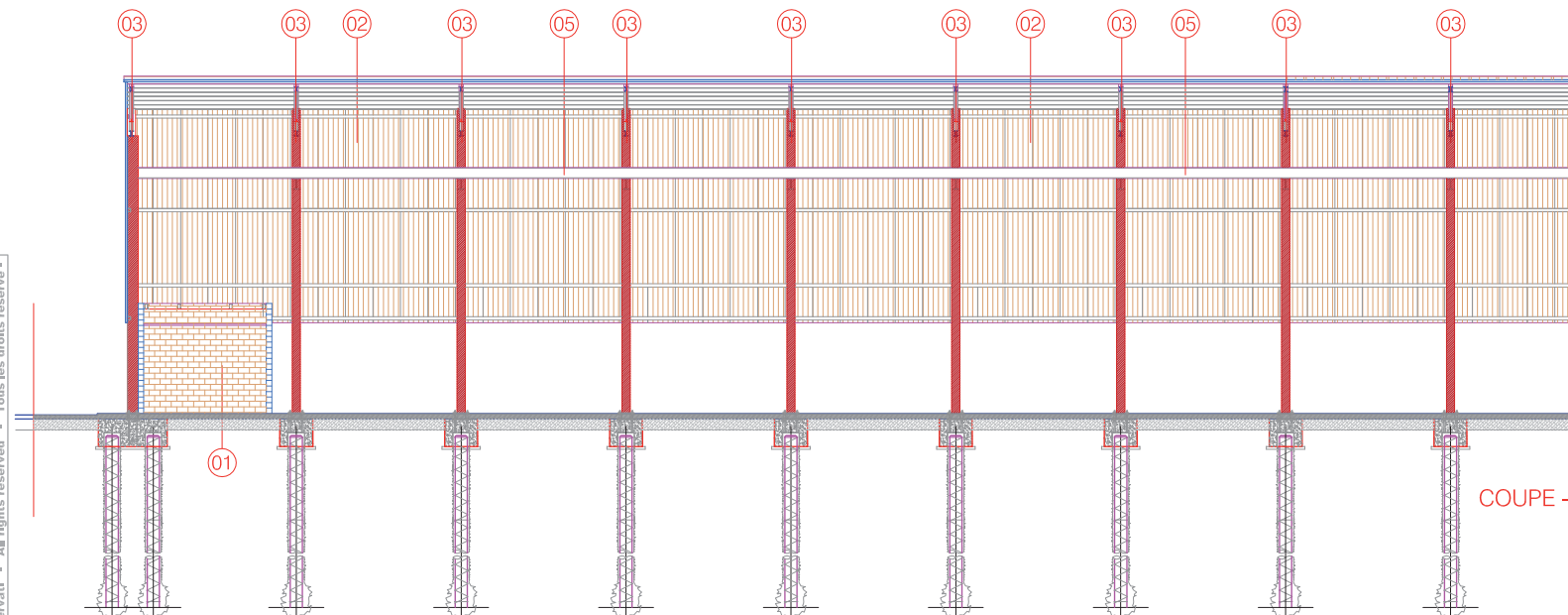
C 13





- 01 mur de briques en béton vibrant
couleur ocre
vibrate concrete masonry
colour ochre
- 02 panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation
- 03 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 04 multi function metallic and glass door with
antipanic handle
porte métallique et de verre multi-fonction
avec la poignée antipanic
- 05 bridge-trane 6 ton.
pont roulant 6 ton.

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 - Tutti i diritti riservati - All rights reserved - Tous les droits réservés -



COUPE - SECTION A - A 1 : 200

**DRAWING
DESSIN** 07b

CDA

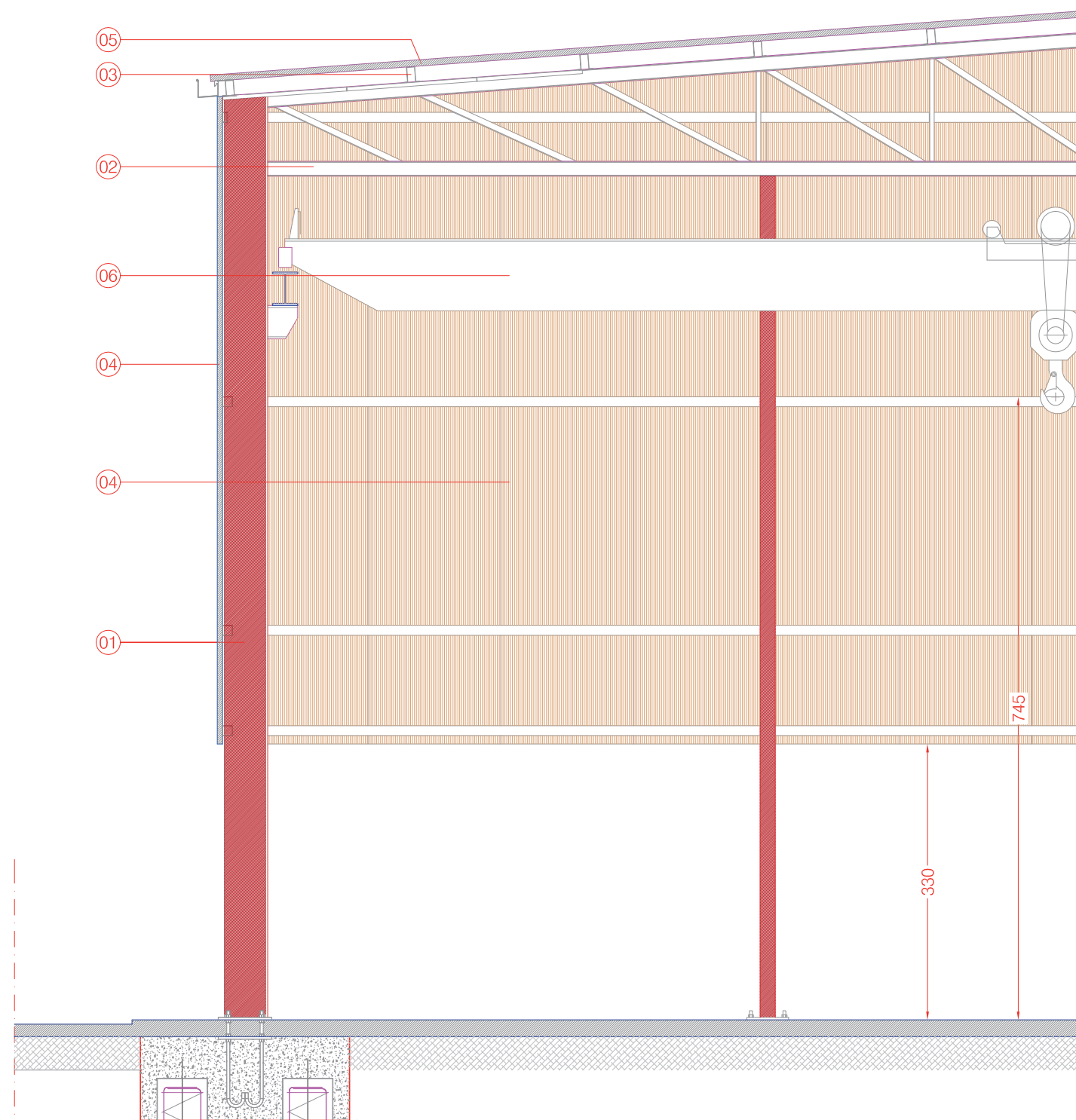
**SECTIONS
ELEVATIONS**

C 13



2455

COUPE - SECTION B - B 1 : 20



- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega " in acciaio
arcarecci in profili ad "omega " in acciaio
- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- 06 bridge-trane
pont roulant

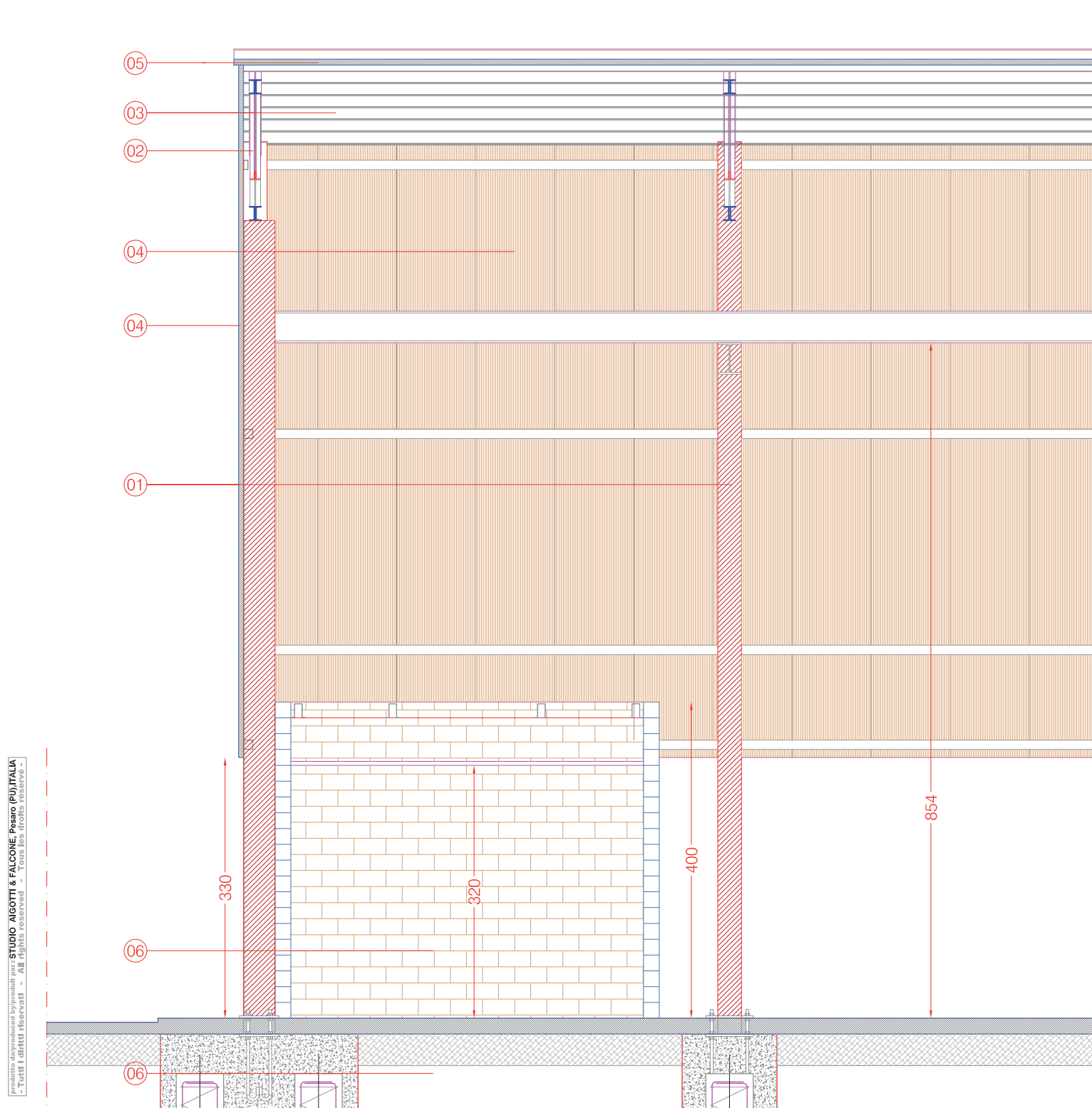
DRAWING
DESSIN 08a

PROSPECTS AND CROSS SECTIONS
PSOSPECTUS ET SECTIONS

CDA

C 13





COUPE - SECTION A - A 1 : 20

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio
- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- 06 mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre

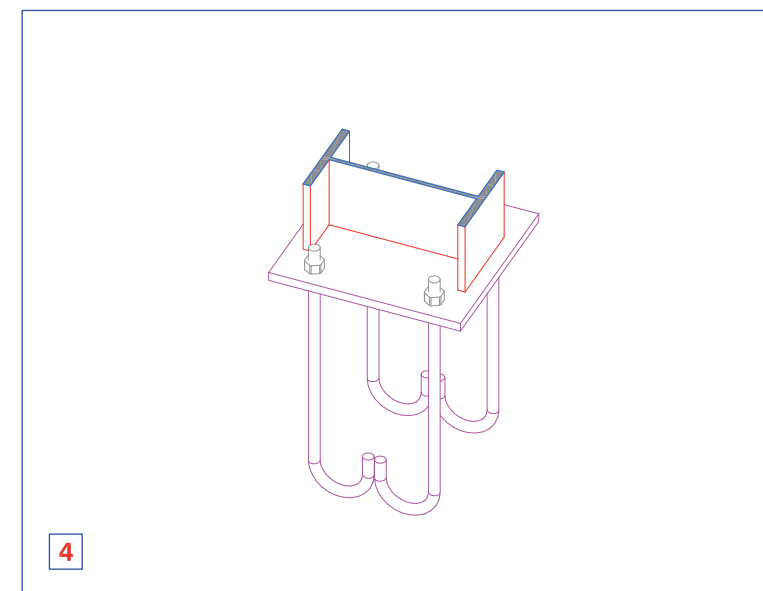
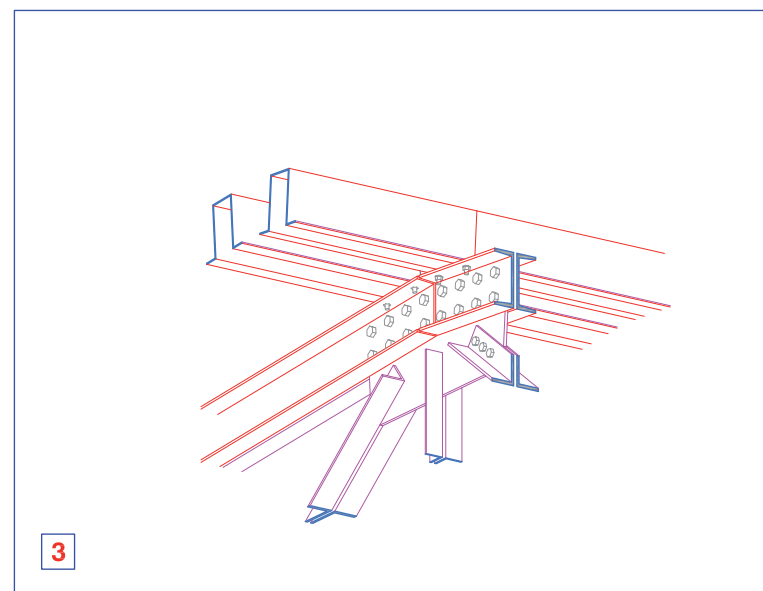
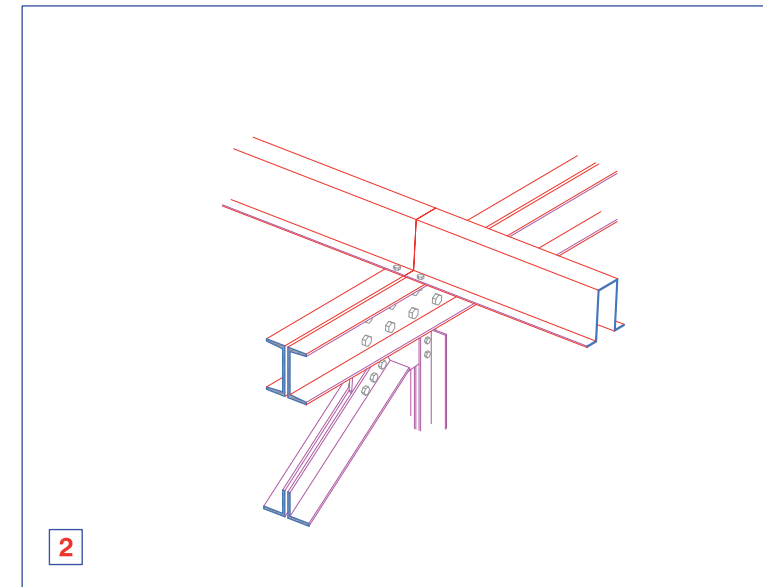
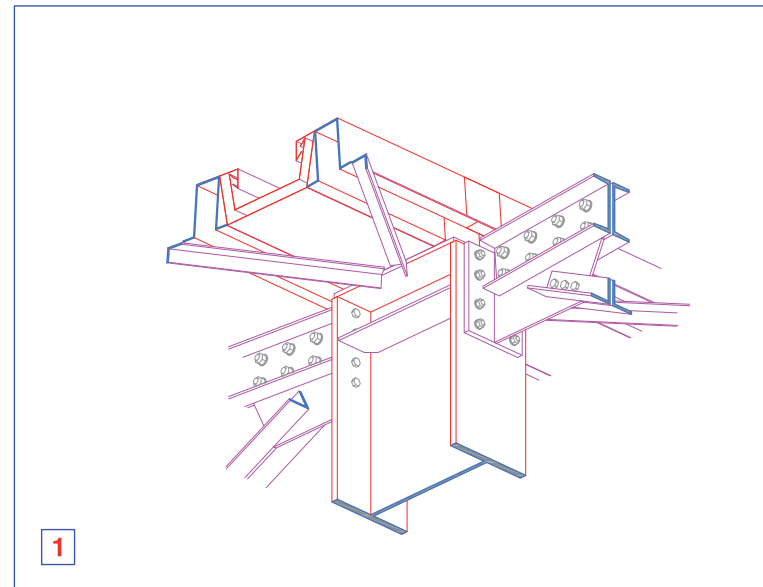
DRAWING
DESSIN **08b**

PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

C 13

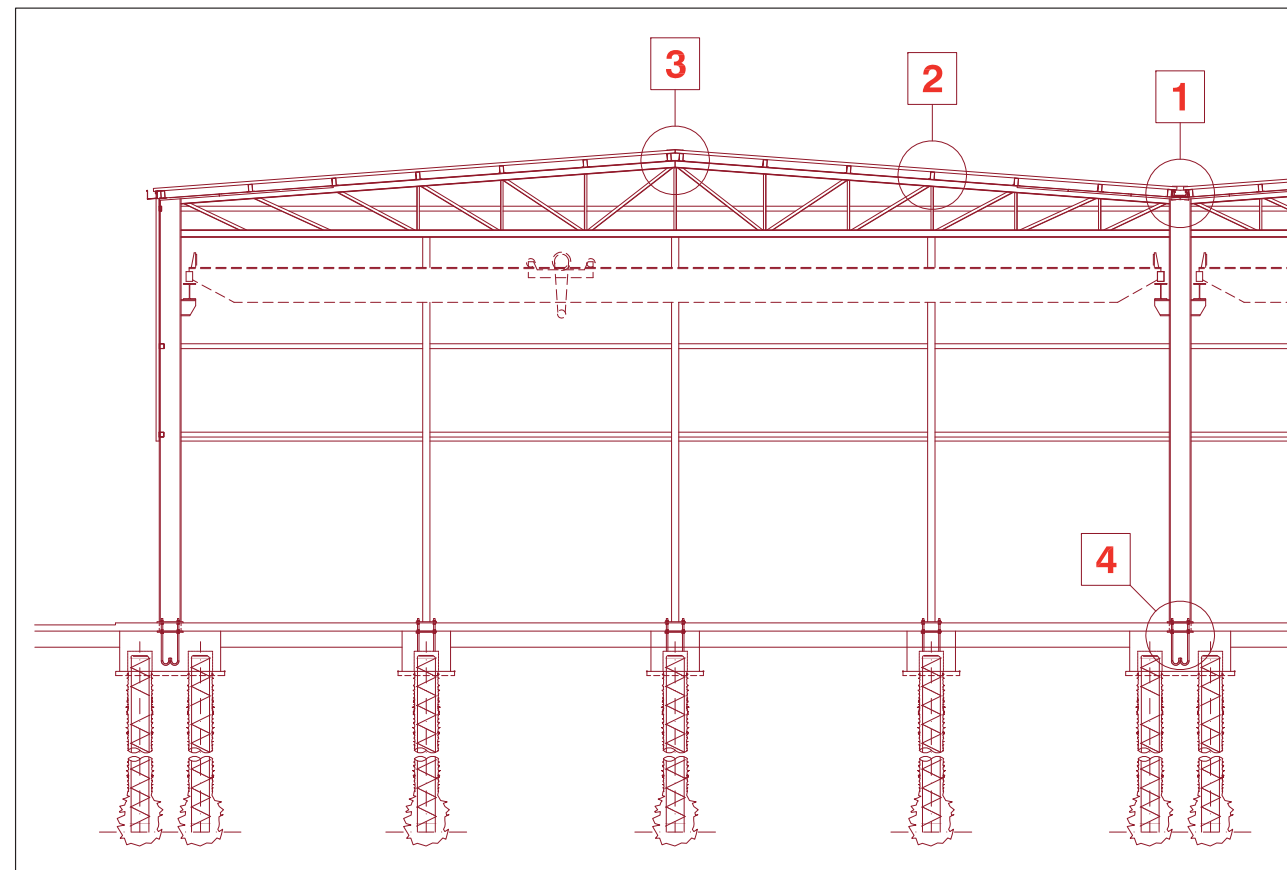




**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

A1

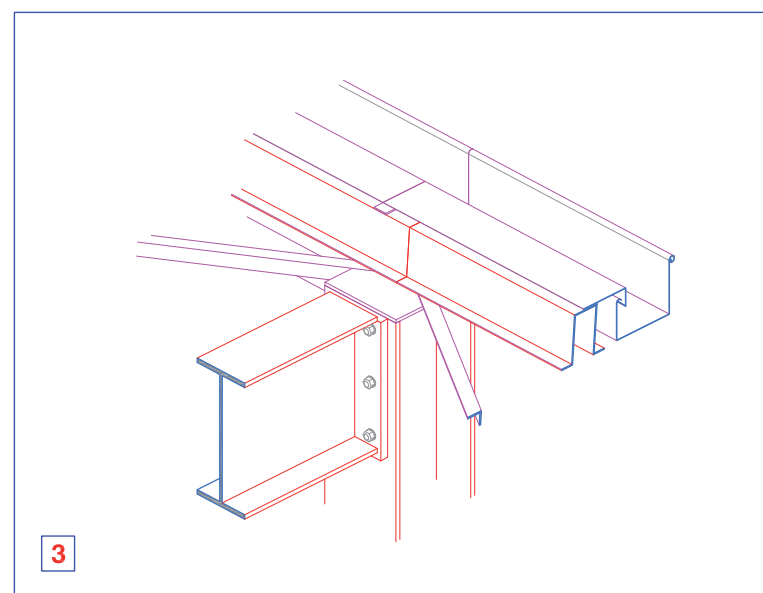
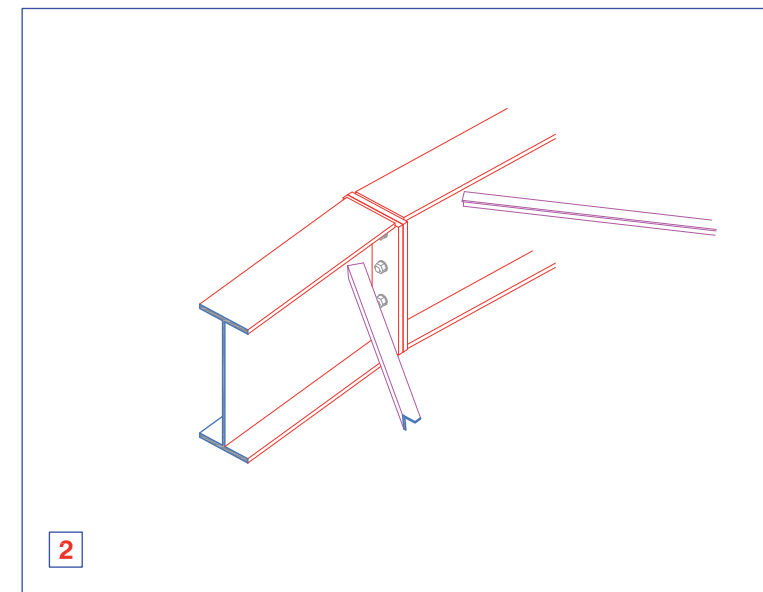
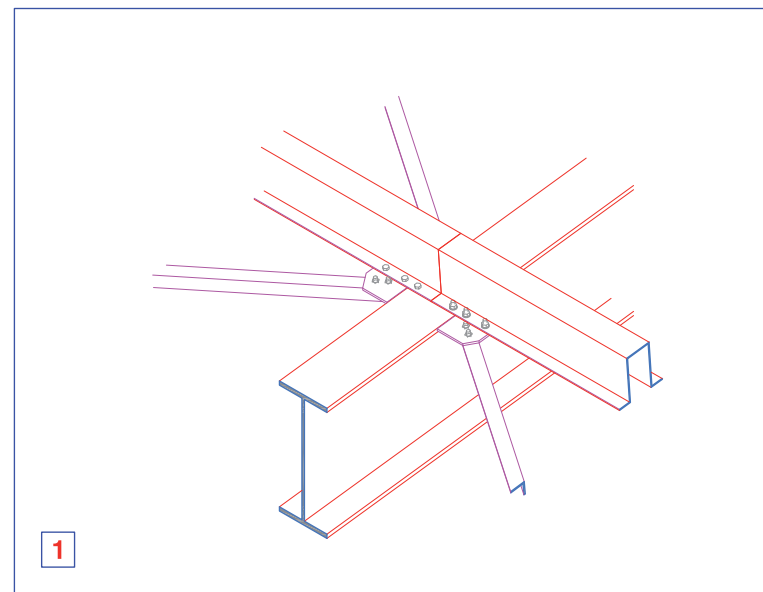
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

A

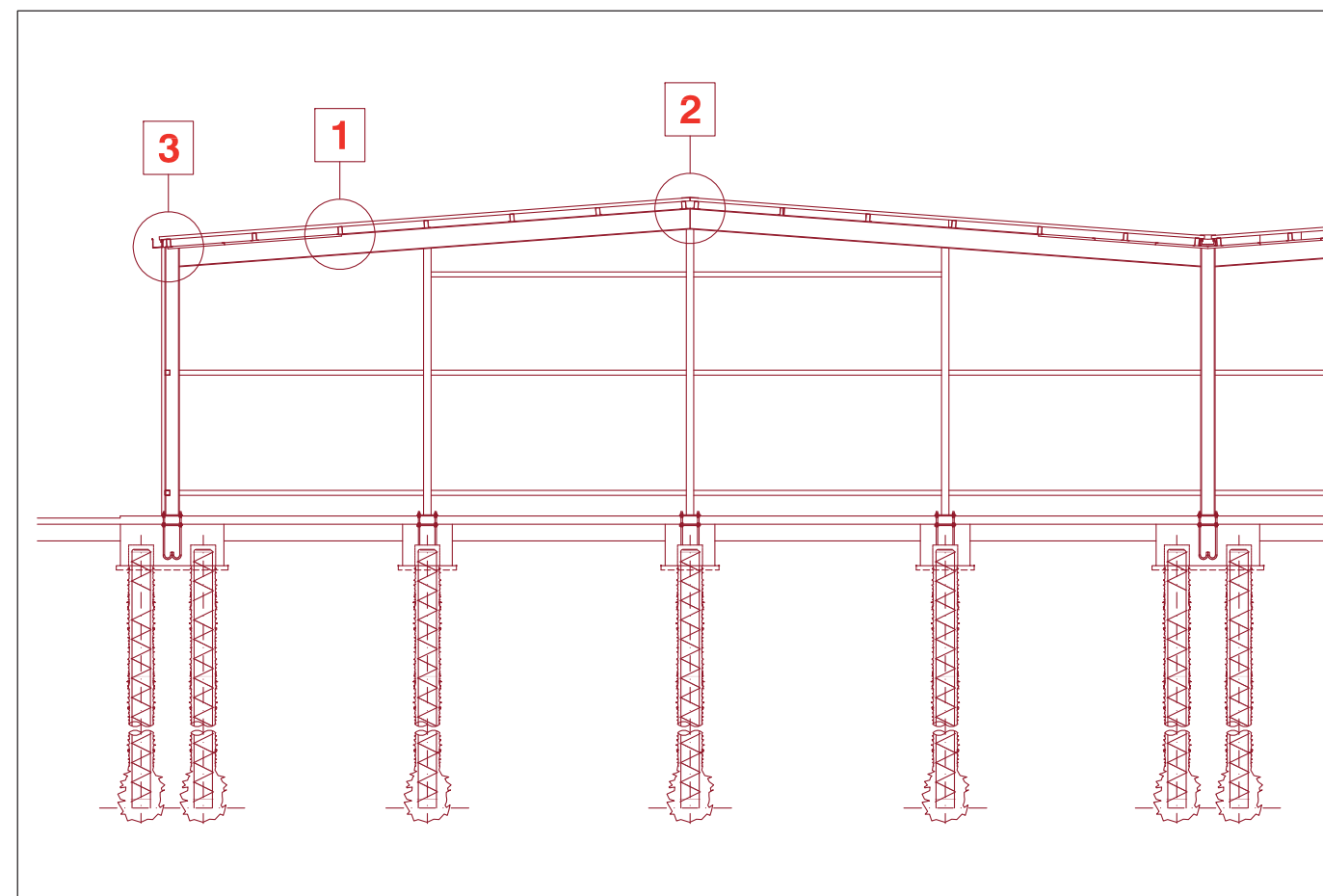
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

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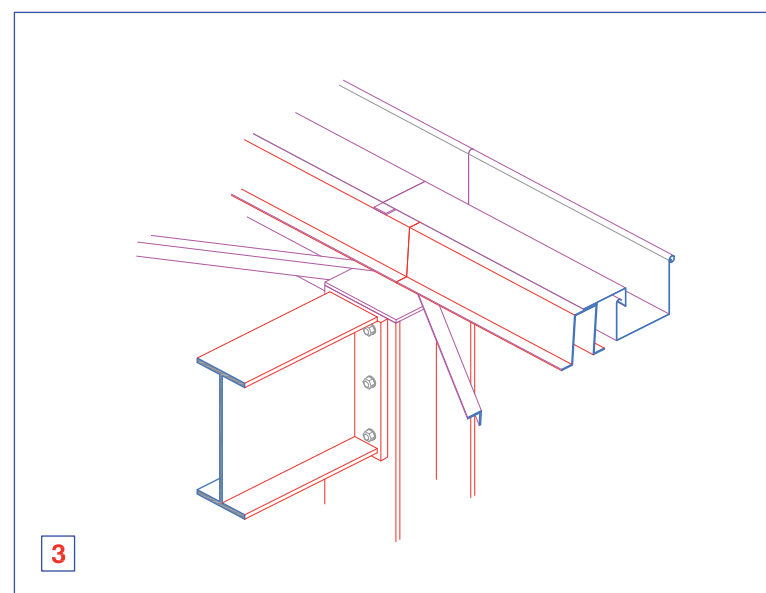
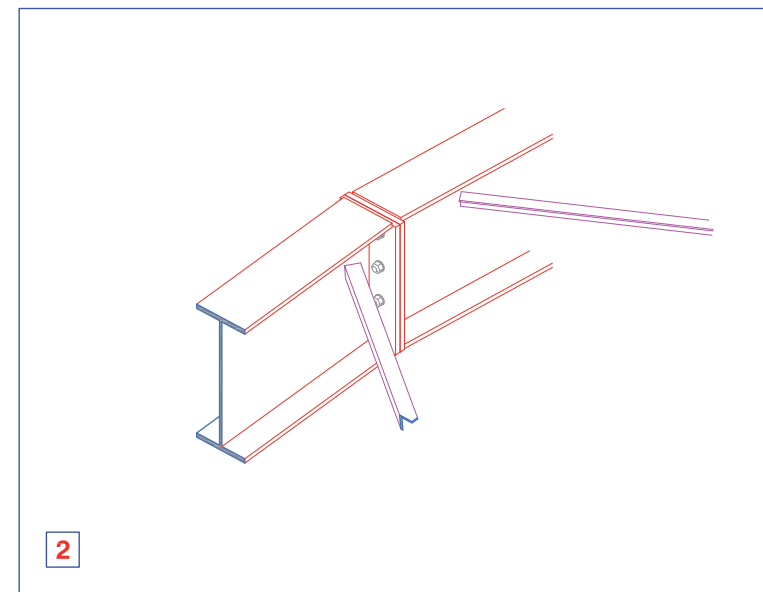
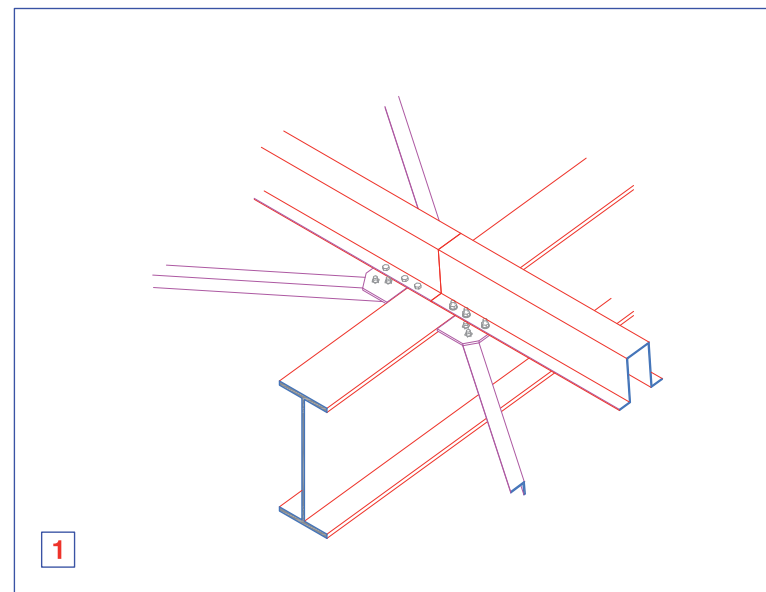
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

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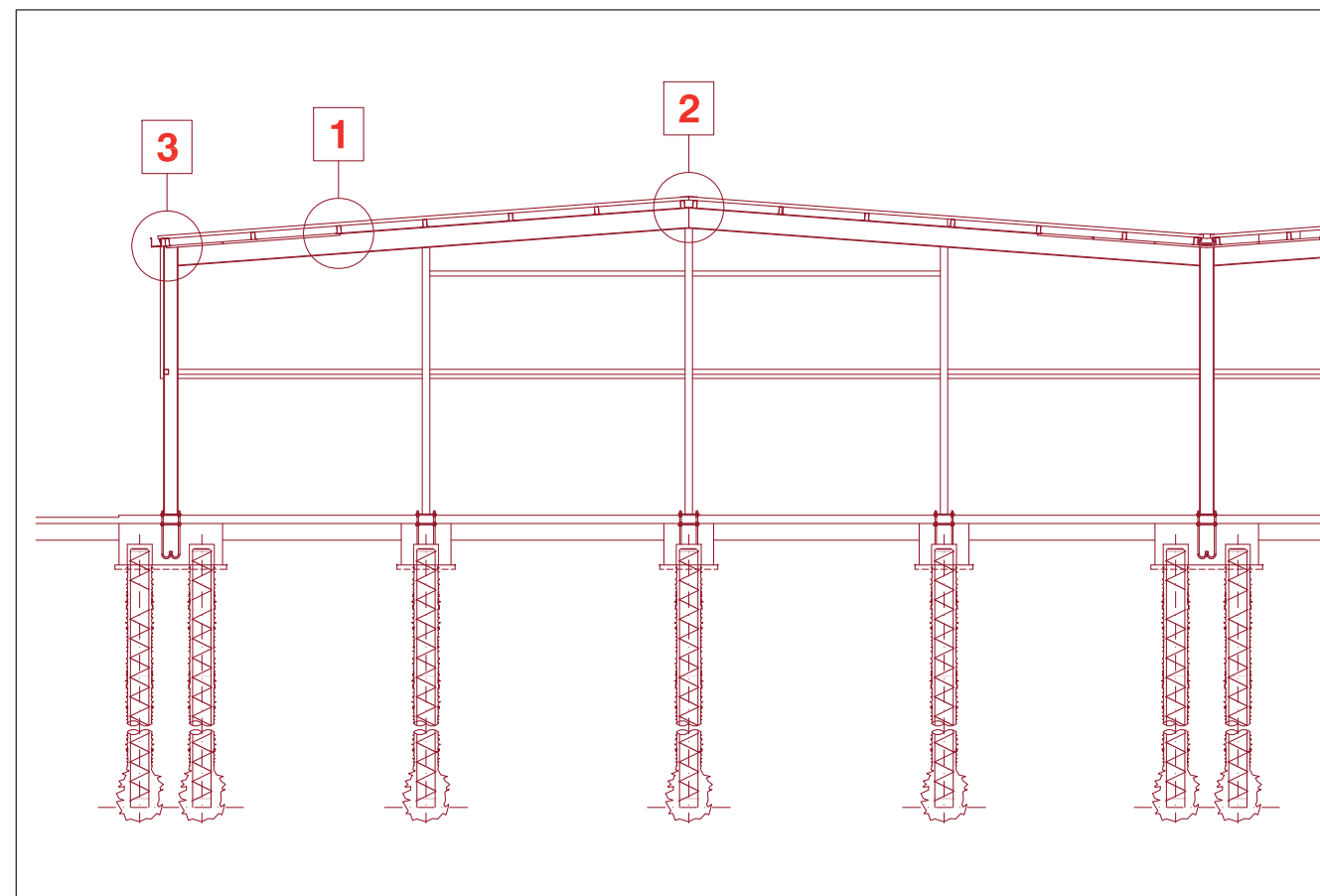
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

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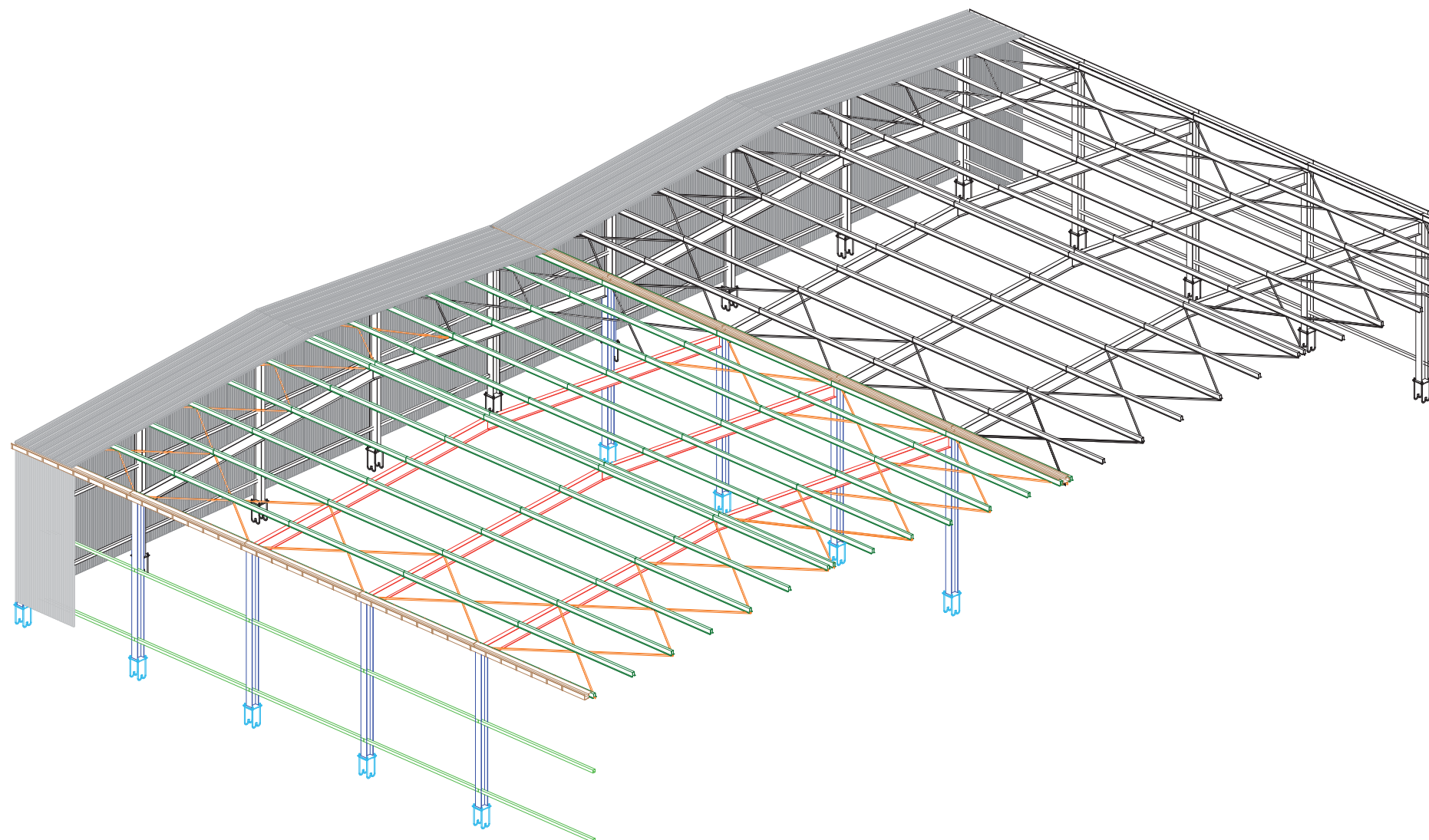
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

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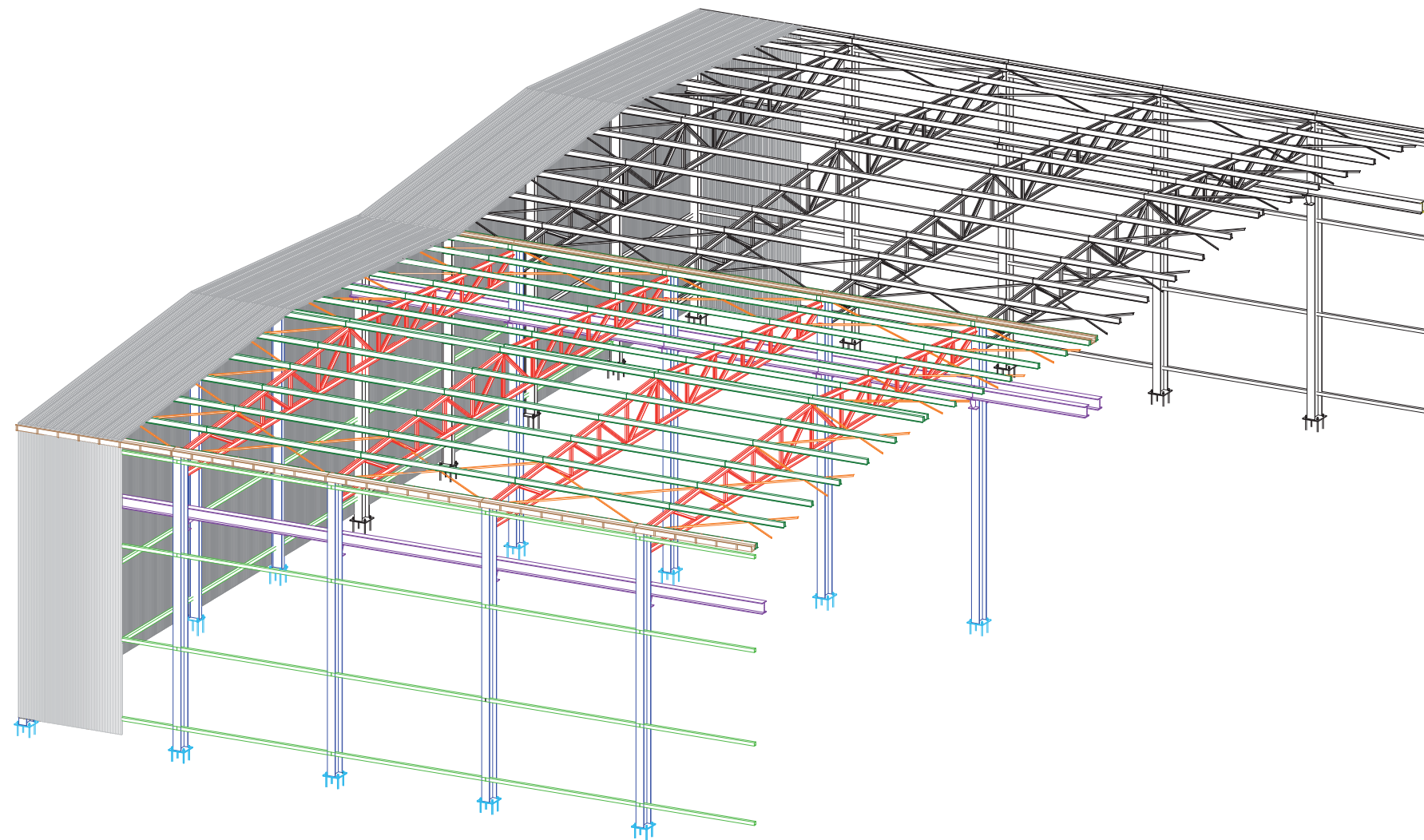
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

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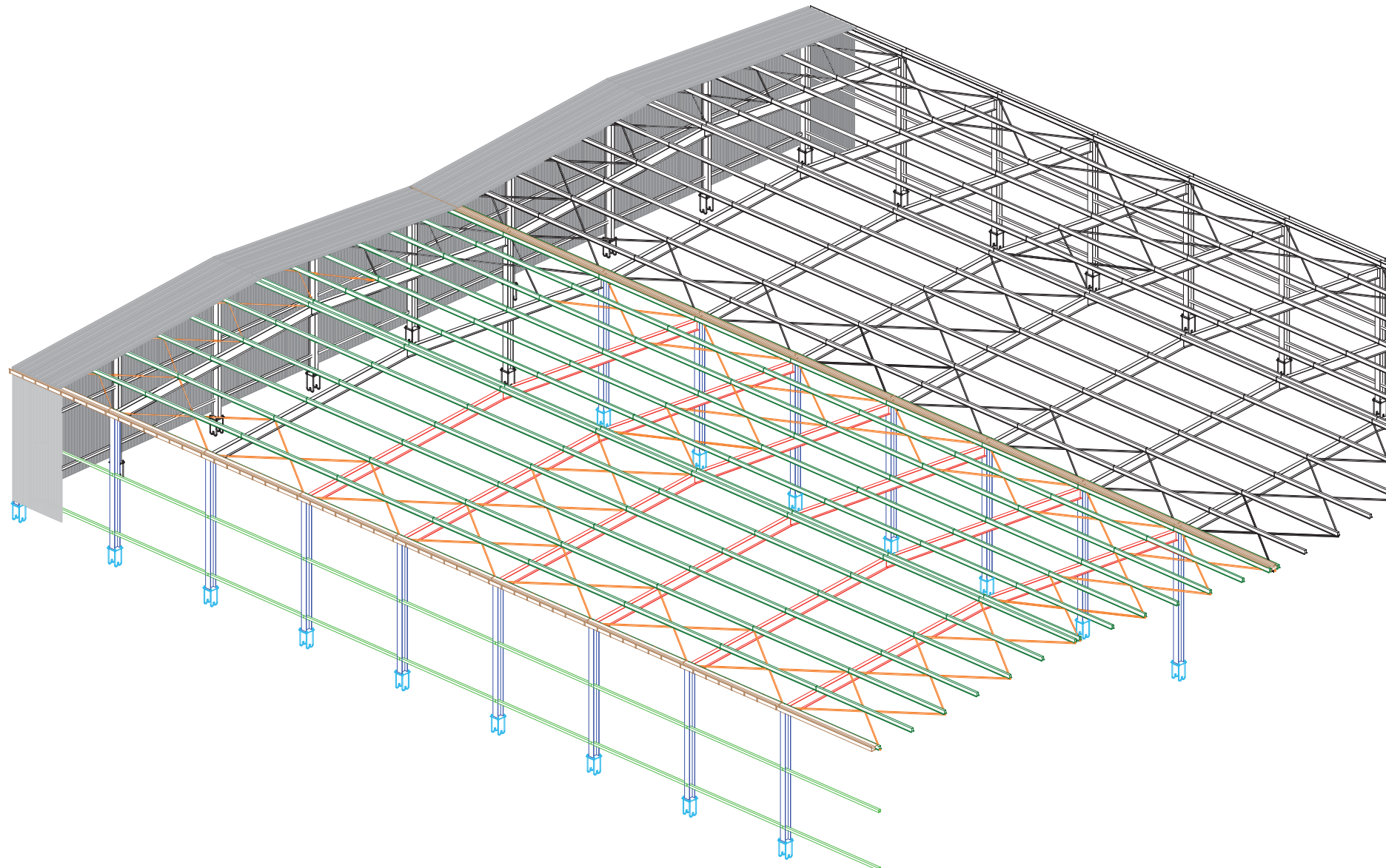
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

E

CDA



**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

F

CDA

2466

LÉGENDE			
Symbole	Description	Symbole	Description
	PEHD PIPE HOT WELDED FOR SEWER TUBAZIONE IN PEAD TERMOSALDATA PER SCARICHI		FIRE EXTINGUISHER ESTINTORE A CO DA 5 kg CON CAPACITÀ ESTINGUENTE 89BC
	PVC PIPE FOR EXTERNAL SEWER TUBAZIONE IN PVC PER SCARICHI ESTERNI		FLOOR DRAIN PILETTA
	PVC PIPE FOR EXTERNAL DRAINAGE TUBAZIONE IN PVC PER DRENAGGI ESTERNI		SEWER SCARICO
	PEHD PIPE HOT WELDED FOR COMPRESSED AIR TUBAZIONE IN PEAD TERMOSALDATA PER ARIA COMPRESSA		VENT THRU ROOF COLONNA DI VENTILAZIONE
	STEEL BLACK PIPE EN 10220 SS FOR COMPRESSED AIR TUBAZIONE IN ACCIAIO NERO EN 10220 SS PER ARIA COMPRESSA		STORAGE BOILER CALDAIA CON ACCUMULO
	PEHD PIPE HOT WELDED FOR FIRE FIGHTING SYSTEM TUBAZIONE IN PEAD TERMOSALDATA PER ANTINCENDIO		BALL VALVE VALVOLA A SFERA
	STEEL BLACK PIPE EN 10220 SS FOR FIRE FIGHTING SYSTEM TUBAZIONE IN ACCIAIO NERO EN 10220 SS PER ANTINCENDIO		AUTOMATIC BLOCK VALVE, NORMALLY CLOSED ELETTROVALVOLA DI INTERCETTAZIONE, NORMALMENTE CHIUSA
	PEHD PIPE HOT WELDED UNI ISO 4437 FOR GAS CH4 TUBAZIONE IN PEAD TERMOSALDATA UNI ISO 4437 PER GAS METANO		AUTOMATIC CONDENS DRAINAGE GRUPPO DI DRENAGGIO AUTOMATICO CONDENZA DN 15
	STEEL BLACK PIPE UNI 8863 SS FOR GAS CH4 TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS PER GAS METANO		GATE BALL-Ø=ØPIPE-PN 16, ISPECTION TRAP IN CONCRETE, WITH COVER VALVOLE DI INTERCETTAZIONE A SARACINESCA-Ø=ØTUBO-PN 16 POSTA ENTRO POZZETTO CON CHIUSINO
	PEHD PIPE HOT WELDED FOR POTABLE WATER TUBAZIONE IN PEAD TERMOSALDATA PER ACQUA POTABILE		TRAP IN CONCRETE WITH COVER AND SPLICE POLYETHYLENE STEEL POZZETTO IN CLS CON CHIUSINO E GIUNZIONE POLIETILENE ACCIAIO
	STEEL BLACK PIPE UNI 8863 SS FOR POTABLE WATER TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS PER ACQUA POTABILE		FLOOR DRAIN CADITOIA IN GHISA
	STEEL BLACK PIPE UNI 8863 SS FOR HOT POTABLE WATER TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS PER ACQUA CALDA POTABILE		TRAP IN CONCRETE WITH COVER, SPLICE POLYETHYLENE STEEL, GATE BALL-Ø=ØPIPE-PN 16 POZZETTO IN CLS CON CHIUSINO, GIUNZIONE POLIETILENE ACCIAIO, VALVOLA DI INTERCETTAZIONE A SARACINESCA-Ø=ØTUBO-PN 16
	PIPING GALVANIZED STEEL RICIRCULATION HOT POTABLE WATER TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS ACQUA CALDA RICIRCOLO POTABILE		
	STANDPOST HYDRANT IDRANTE SOPRASSUOLO A COLONNA		
	UNI 45 FIRE HYDRANT, HOSE LENGHT 20 METERS IDRANTE UNI 45, LUNGHEZZA MANICHETTA 20 METRI		
	WATER ATTACK DN 100 FIRE DEPARTMENT ATTACCO MOTOPOMPA DN 100		
	FIRE EXTINGUISHER PORTABLE TYPE ABC 6 kg ESTINTORE PORTATILE A POLVERE DA 6 kg CLASSE 43A-233BC		

PRISMA ENGINEERING SRL
Via Valsugana, 10
35020 Valsugana di Sarnano
tel. 049/87918500 fax 049/8791368

MDI XXX

MAS GROUP
MAGNIFIC A SERVICE
TITOLO (INGLESE)
TITOLO (FRANCESE)



SCALE: 1:???

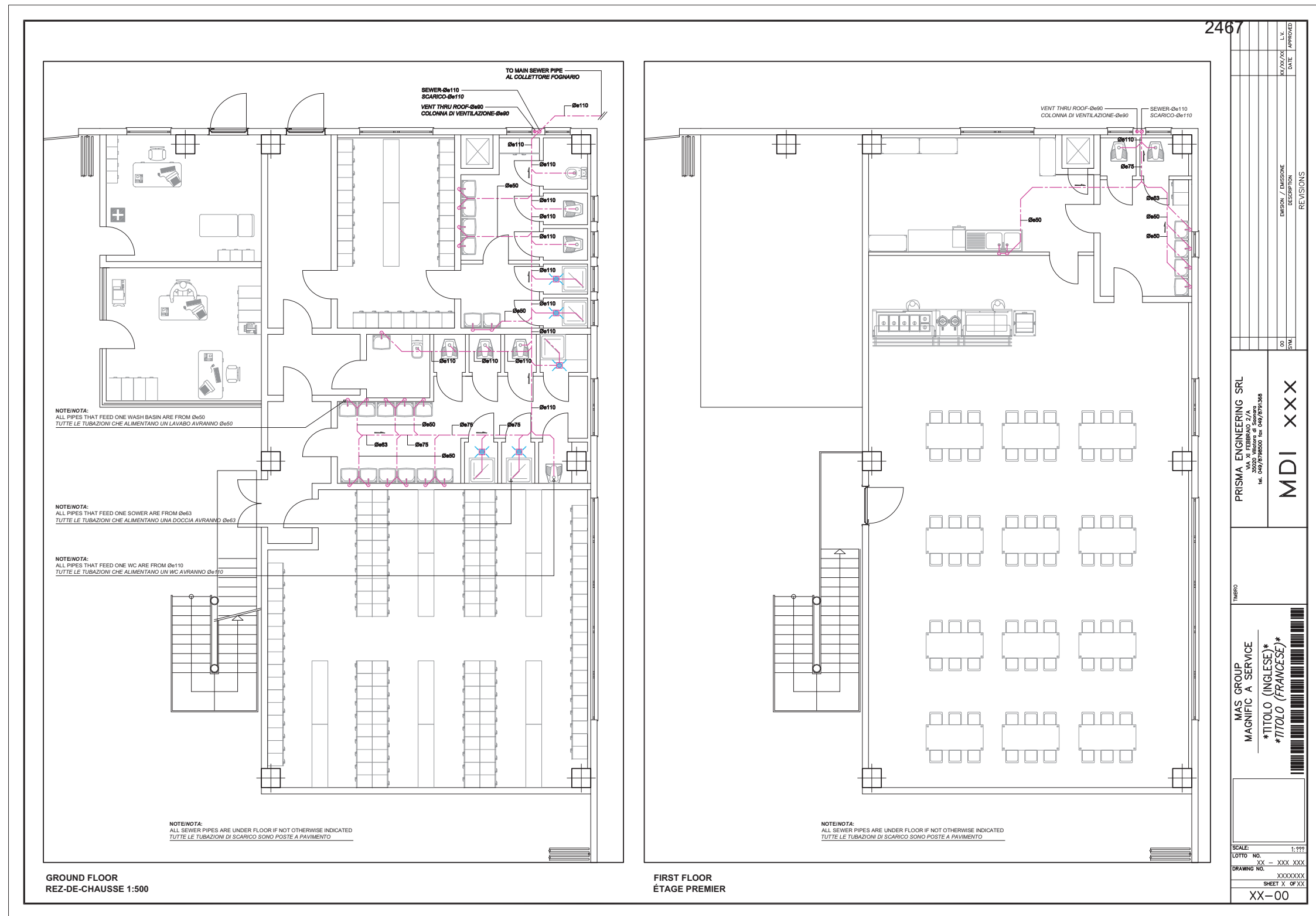
LOTTO NO. XX - XXX XXX

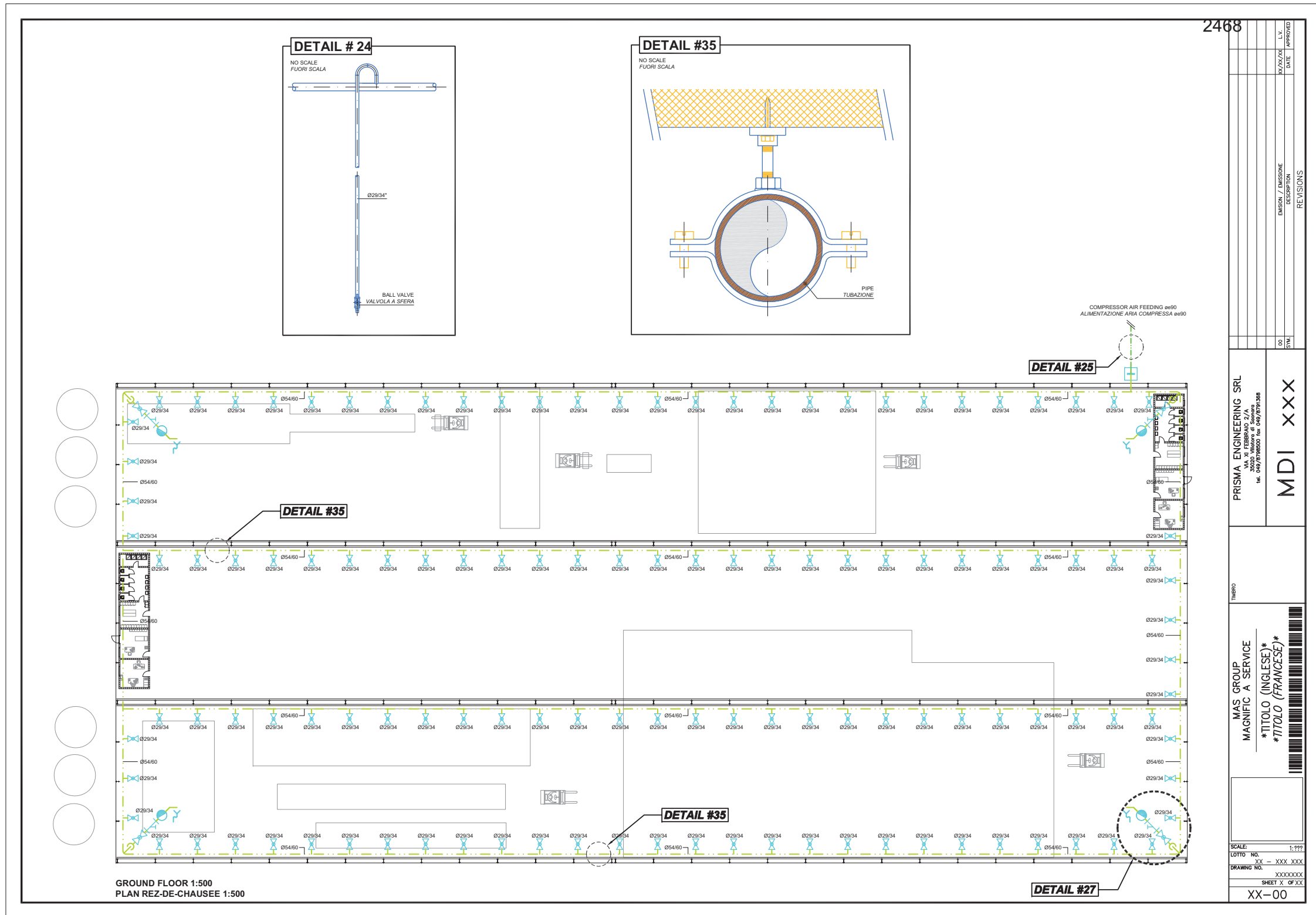
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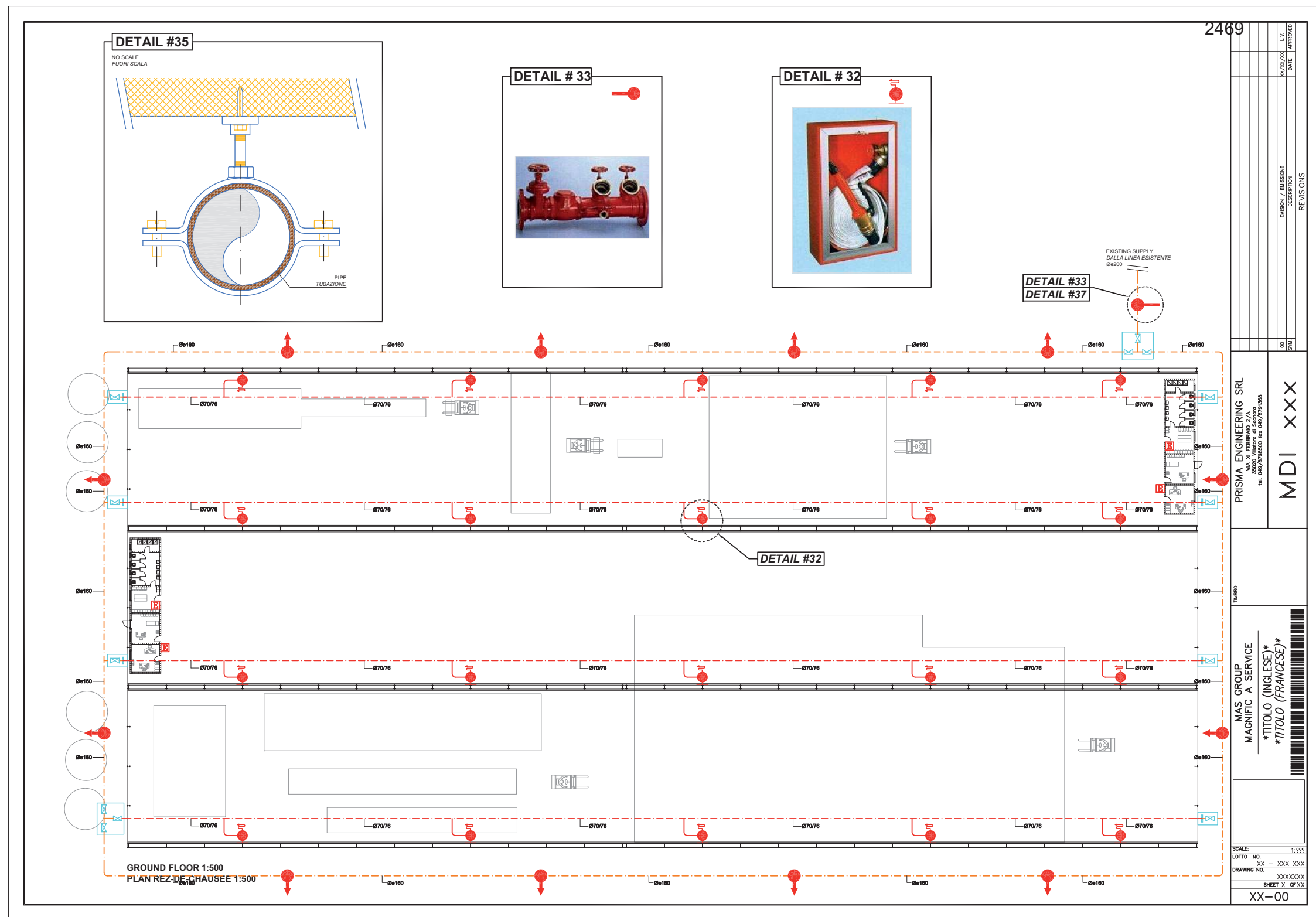
SHEET X OF XX

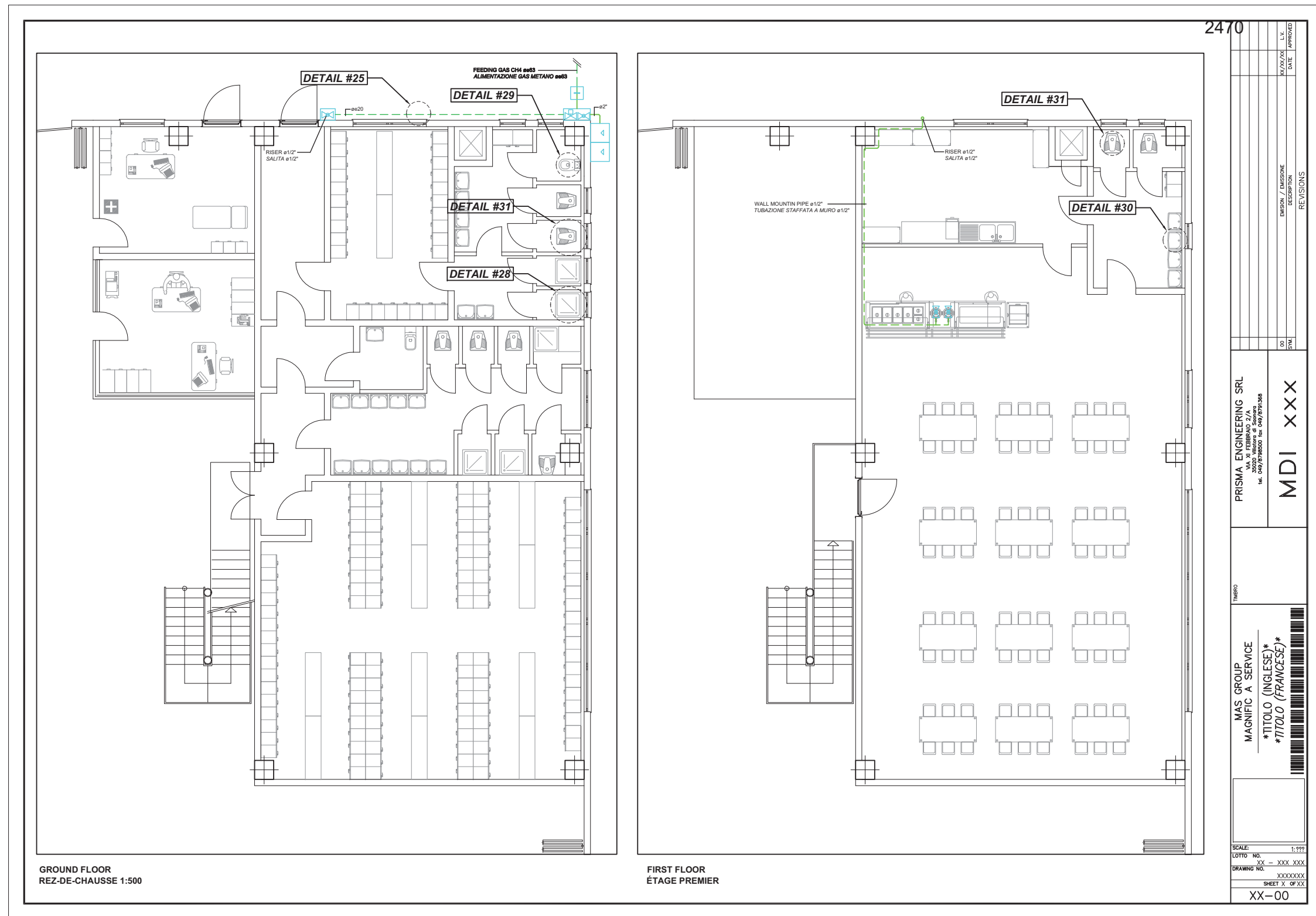
XX-00

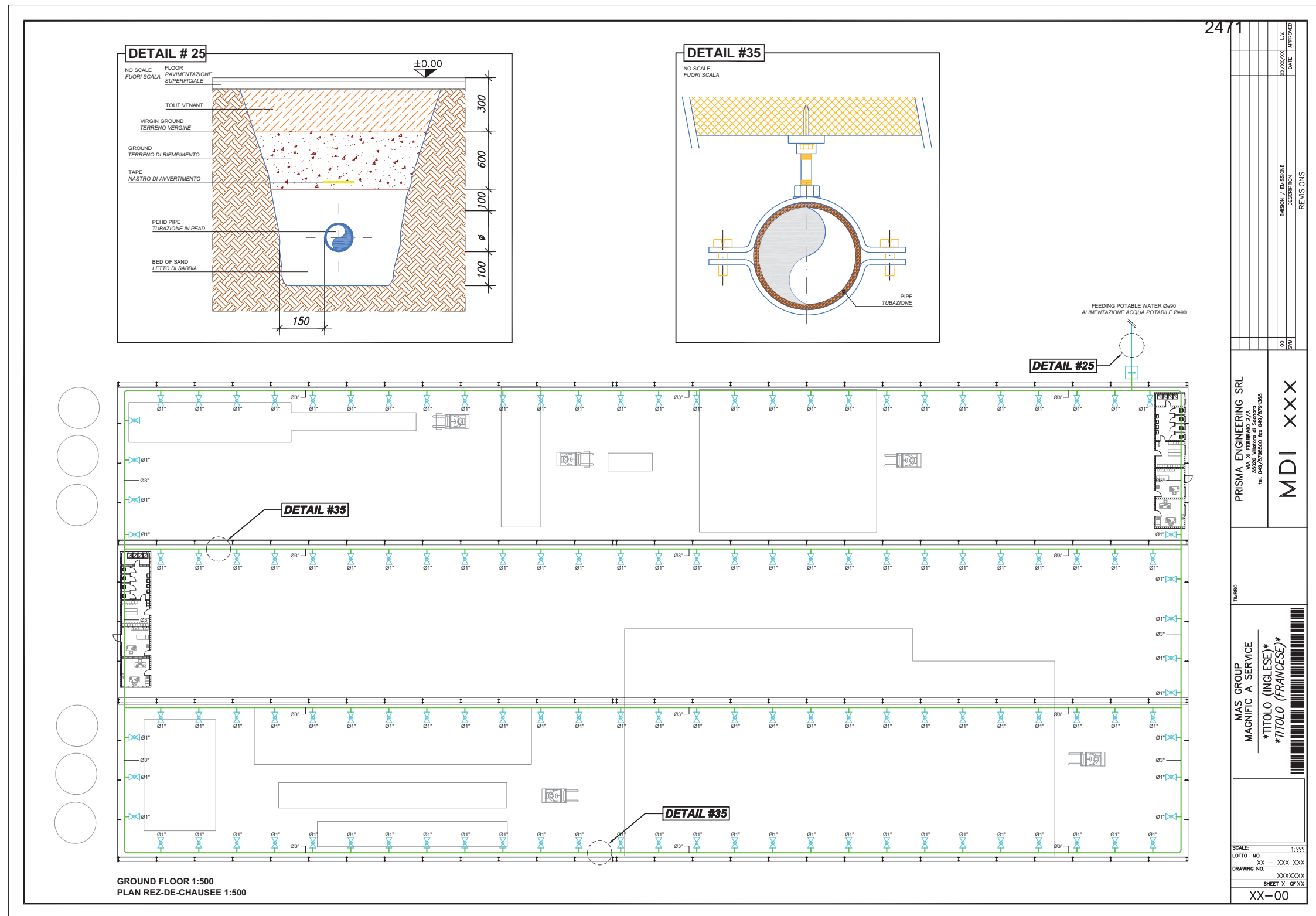


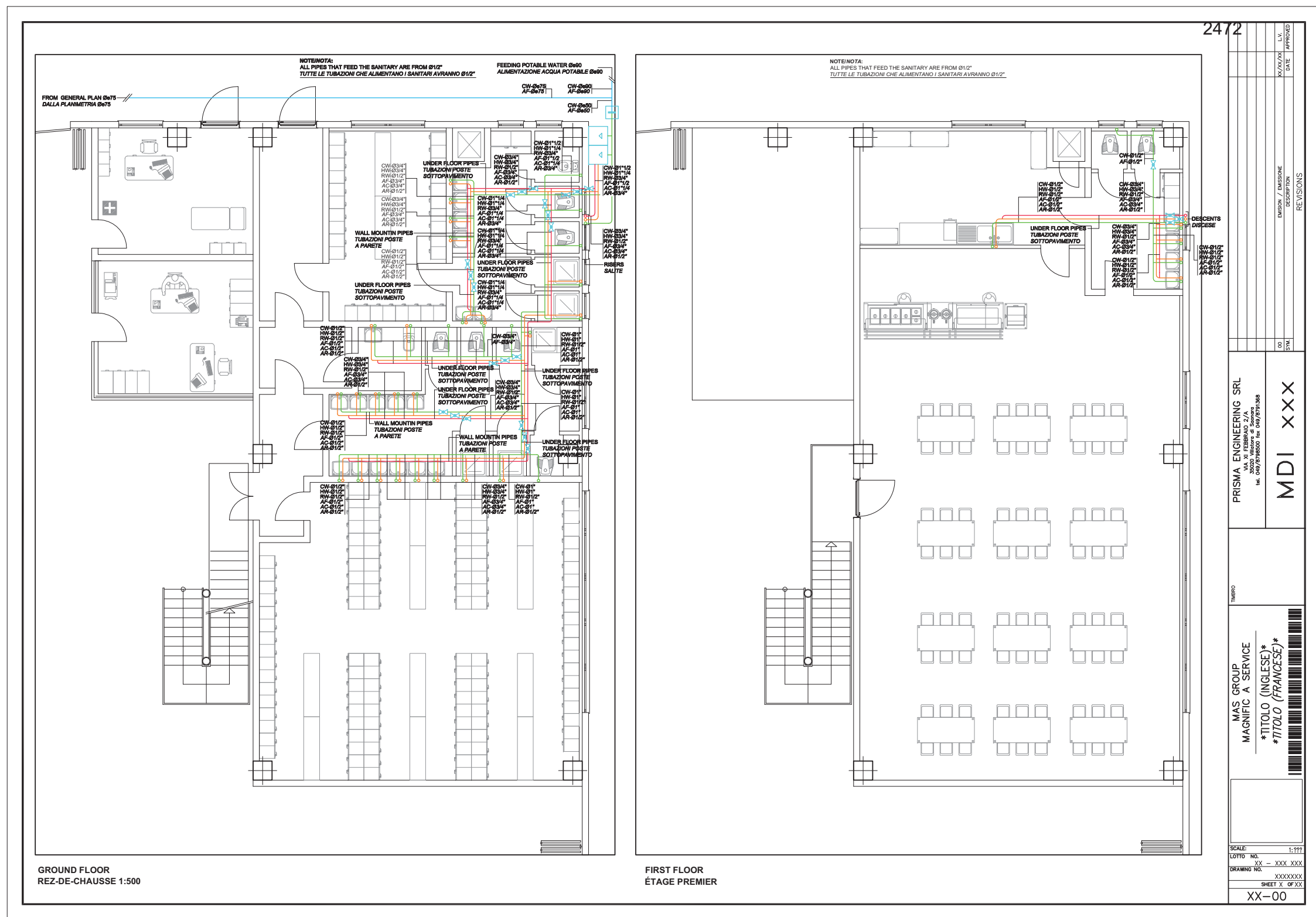


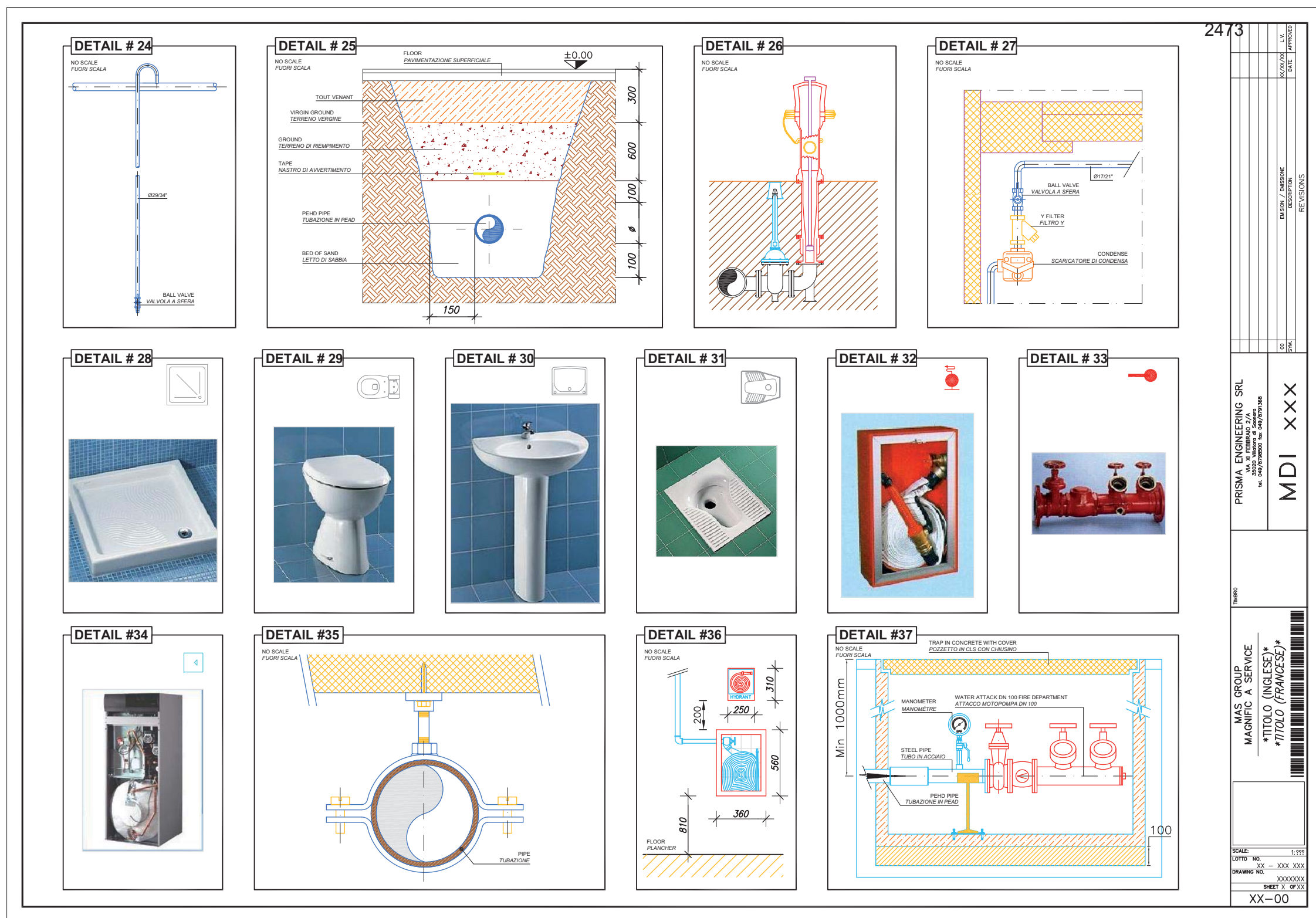




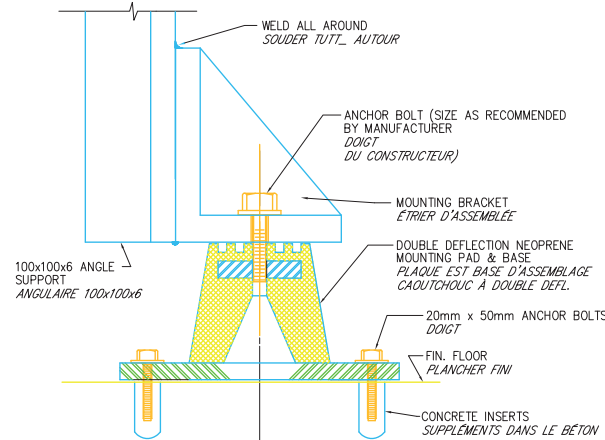






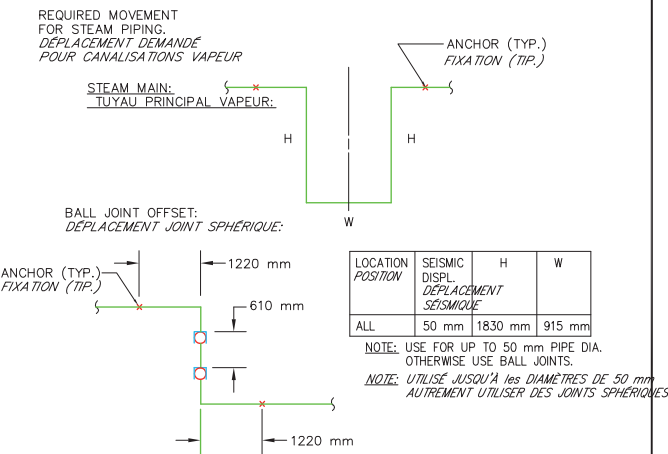


DETAIL # 1



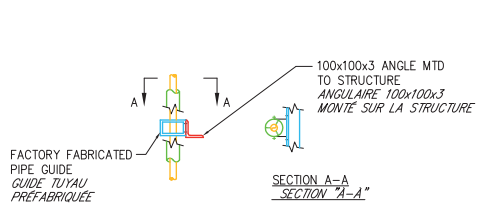
FLOOR SUPPORT DETAIL
NO SCALE
PARTICULIER SUPPORT AU PLANCHER
PAS EN ESCALIER

DETAIL # 4



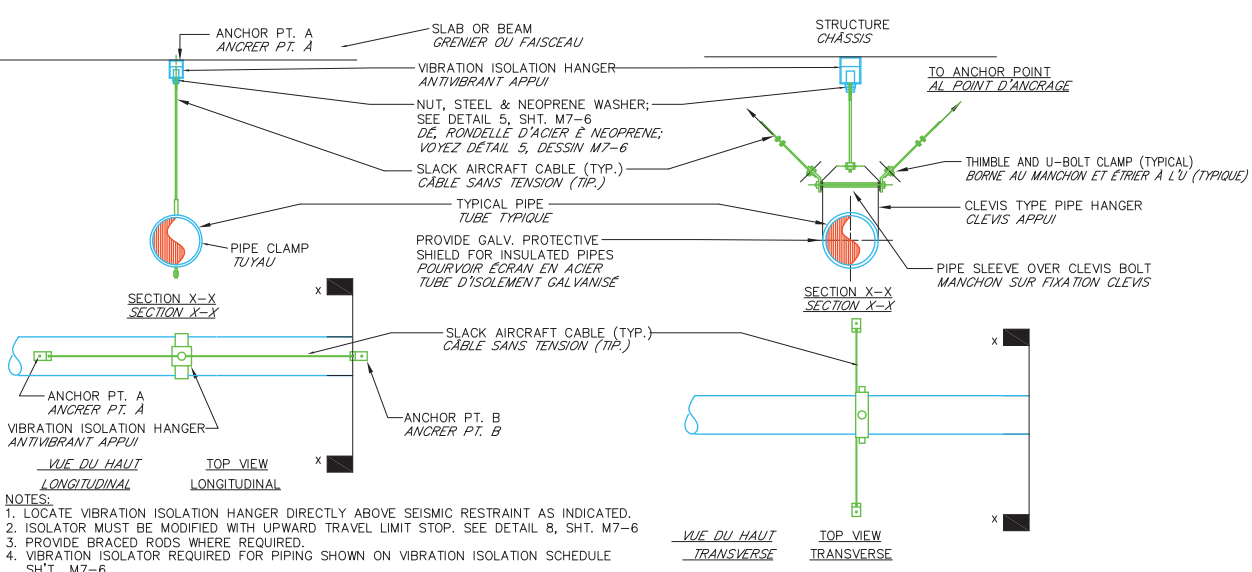
ALTERNATE STEAM SEISMIC JOINT DETAIL
NO SCALE
PARTICULIER D'ASSEMBLÉE SISMIQUE ALTERNATIVES
PAS EN ESCALIER

DETAIL # 2



PIPE GUIDE DETAIL
NO SCALE
PARTICULIER GUIDE DE ROUCOULE
PAS EN ESCALIER

DETAIL # 5



RESTRAINT DETAIL-VIBRATION ISOLATED PIPING/
NO SCALE
PARTICOLARE BLOCCO SPOSTAMENTI - TUBI ISOLATI DALLE VIBRAZIONI/
PAS EN ESCALIER

PRISMA ENGINEERING SRL
Via Valsugana, 10
38020 Valsugana di Sopra
tel. 0461/879500 fax 0461/8791368

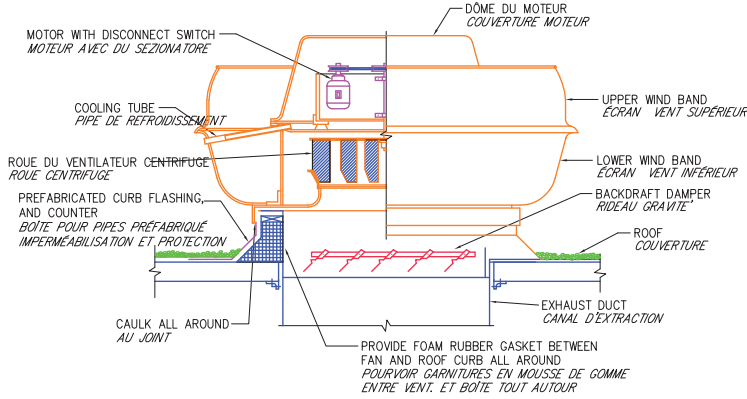
MDI XXX

MAS GROUP
MAGNIFIC A SERVICE
TITOLO (INGLESE)
TITOLO (FRANCESE)

SCALE: 1:1000
LOTTO NO. XX - XXX XXX
DRAWING NO. XXXXXXX
SHEET X OF XX
XX-00

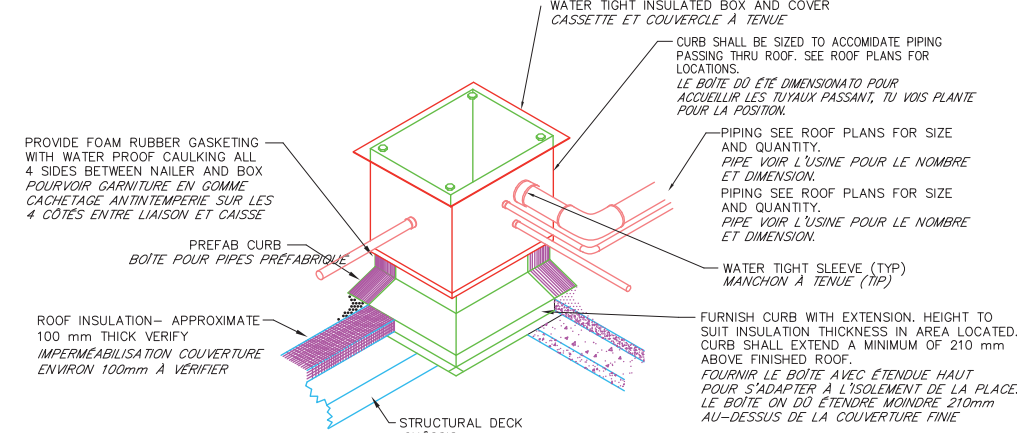


DETAIL # 12



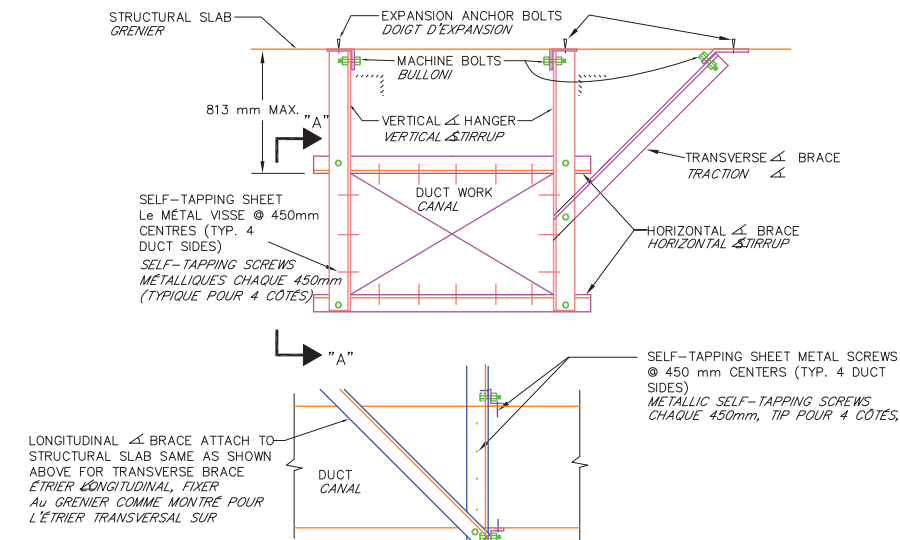
UPBLAST EXHAUST FAN DETAIL
NO SCALE
PARTICULIER EXTRACTEUR AU JET VERTICAL
PAS EN ESCALIER

DETAIL # 13



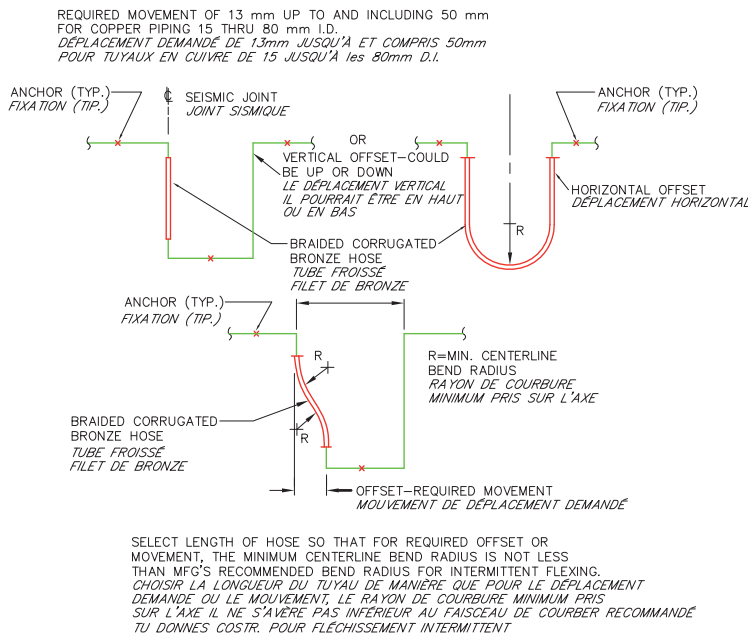
PIPE CURB DETAIL
NO SCALE
PARTICULIER REVENU TUBES
PAS EN ESCALIER

DETAIL # 14



LATERAL RESTRAINT DETAIL-DUCTWORK
NO SCALE
PARTICULIER RESTRICTION LATÉRAL - CANAUX
PAS EN ESCALIER

DETAIL # 15



SEISMIC JOINT DETAIL FOR COPPER PIPING 15 THRU 80 mm I.D.
NO SCALE
S SPÉCIAL JOINT SISMIQUE POUR TUYAUX DE CUIVRE DE 15 Aux 80 mm D.I.
PAS EN ESCALIER

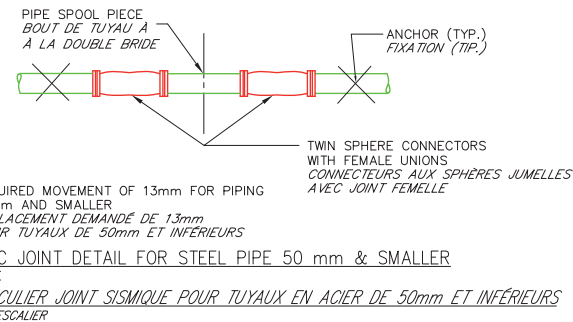
2475

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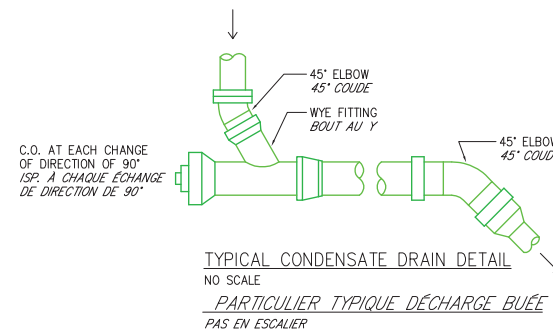


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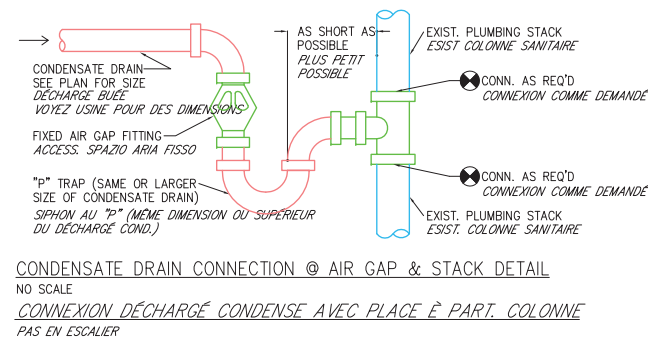
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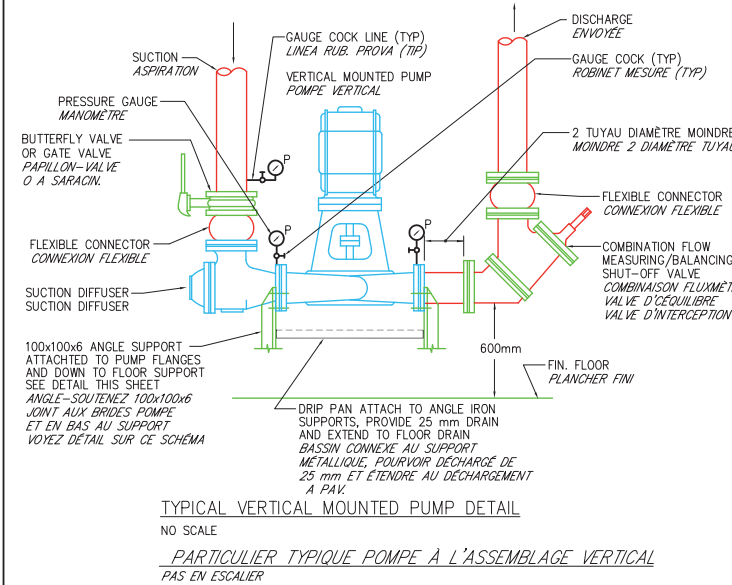
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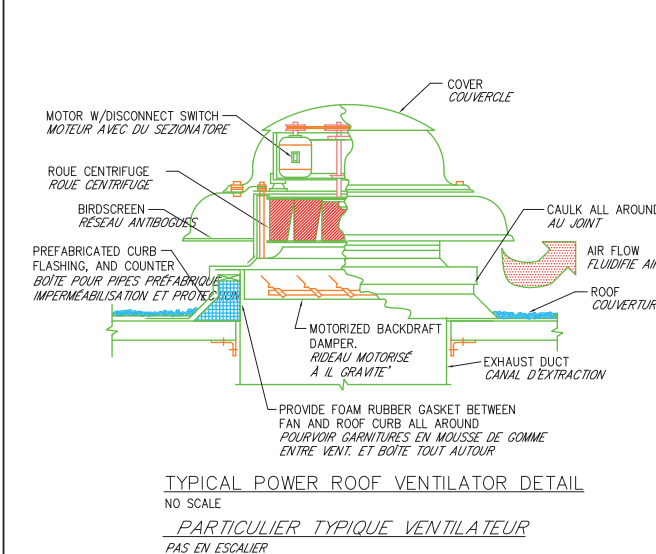
DETAIL # 20



DETAIL # 17



DETAIL # 19



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PRIMA ENGINEERING SRL

30020 Vignola di Sopra

tel. 049/8791500 fax 049/8791368

MDI XXX

MAS GROUP

MAGNIFIC A SERVICE

TTITOLO (INGLESE)

TTITOLO (FRANCESE)

SCALE:

1:100

LOTTO NO.

XXX - XXX XXX

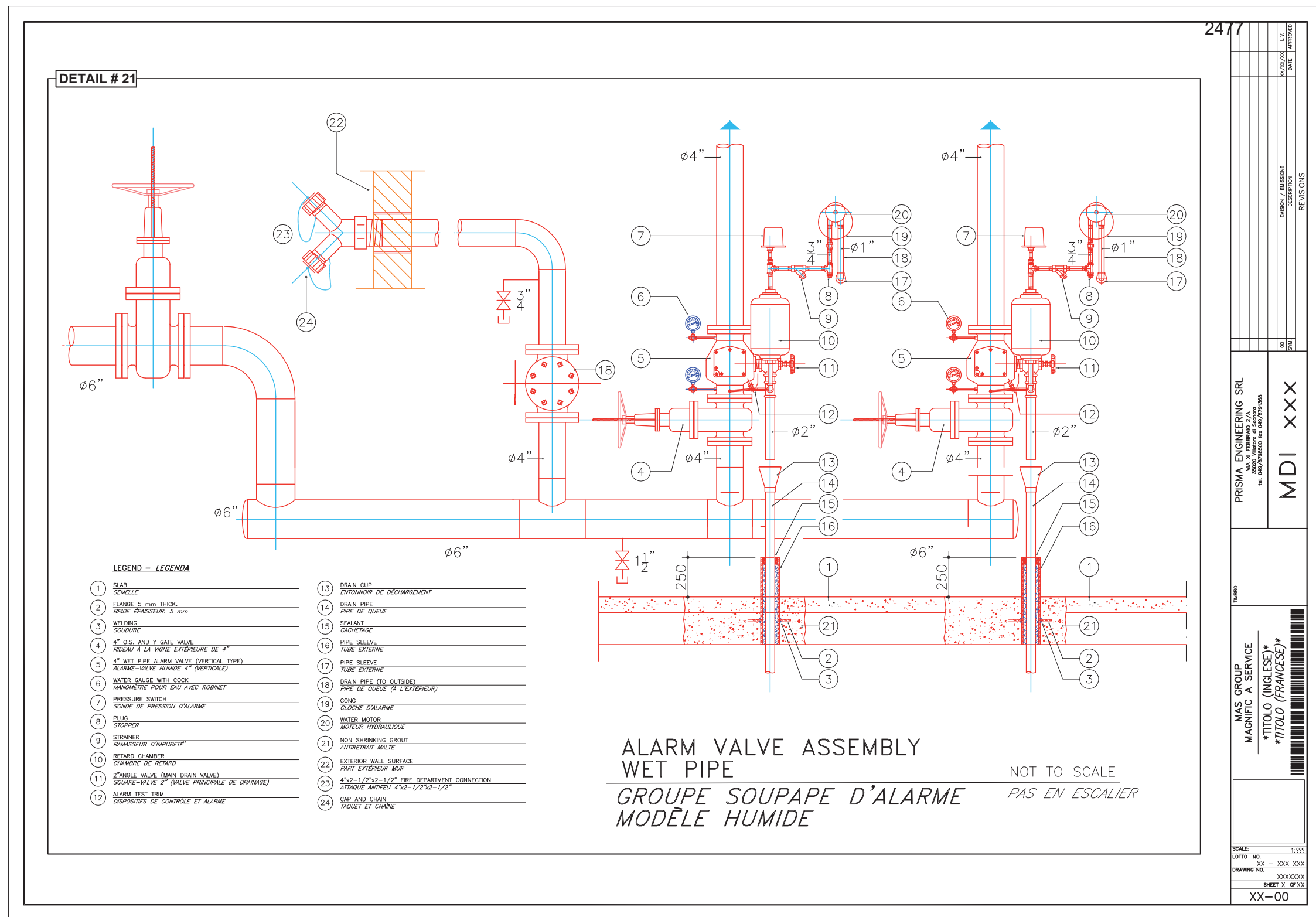
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SHEET X OF XX

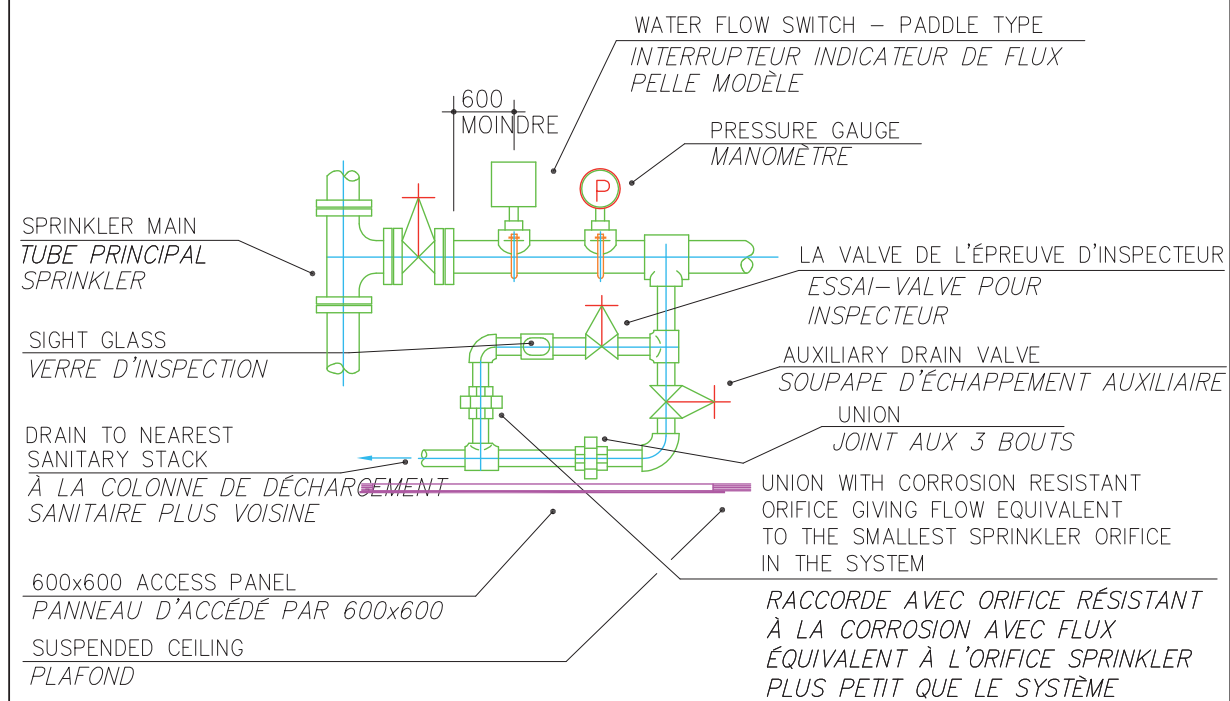
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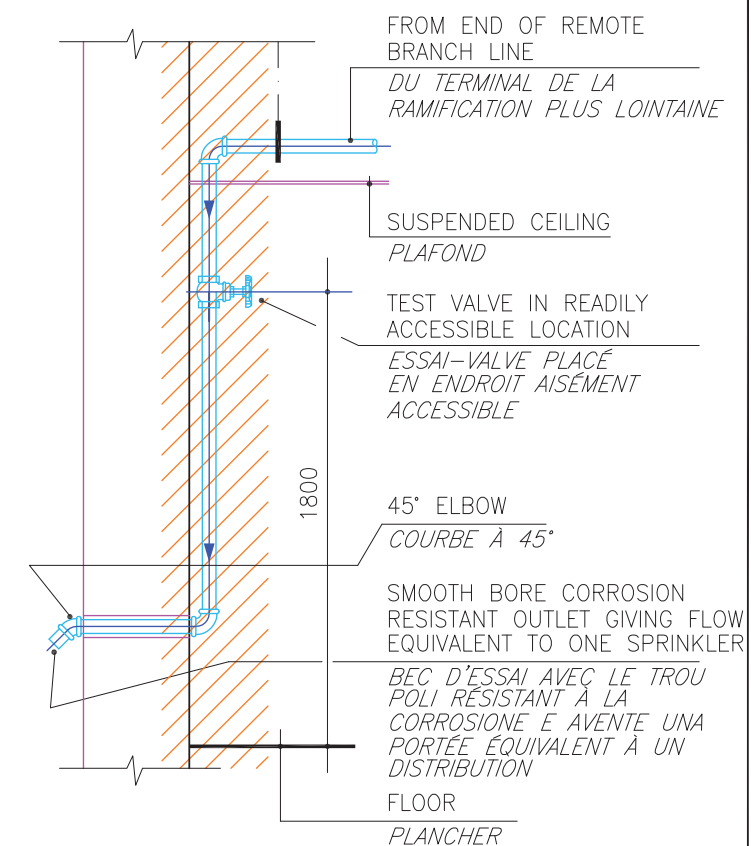


2478

DETAIL # 22


SPRINKLER ZONE VALVE INSTALLATION DETAIL
SPÉCIALE INSTALLATION SOUPAPE SPRINKLER DE ZONE

DETAIL # 23


SYSTEM TEST CONNECTION DETAIL
SPÉCIALE LIAISON POUR PREUVE

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PRIMA ENGINEERING SRL

Via V.le dell'Industria, 1
30020 Vidor (VI) - Italia
tel. 0445/871800 fax 0445/871368

MDI XXX

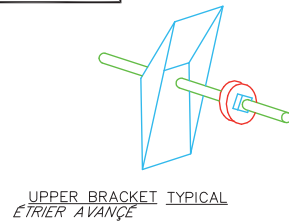
MAS GROUP
MAGNIFIC A SERVICE

TITOLO (INGLESE)
TITOLO (FRANCESE)

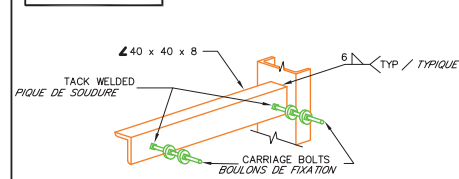
SCALE: 1:100
LOTTO NO. XX - XXX XXX
DRAWING NO. XXXXXXX
SHEET X OF XX
XX-00


2479

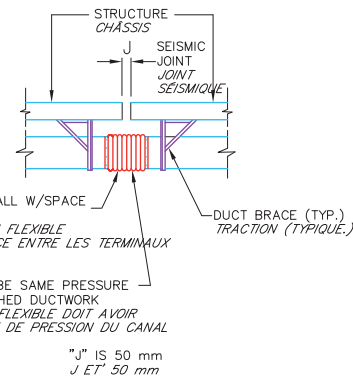
DETAIL # 6


UPPER BRACKET TYPICAL
ÉTRIER AVANCÉ

DETAIL # 9


HANGER BACK PLATE
PLAQUE POSTÉRIEUR SUPPORT

DETAIL # 7



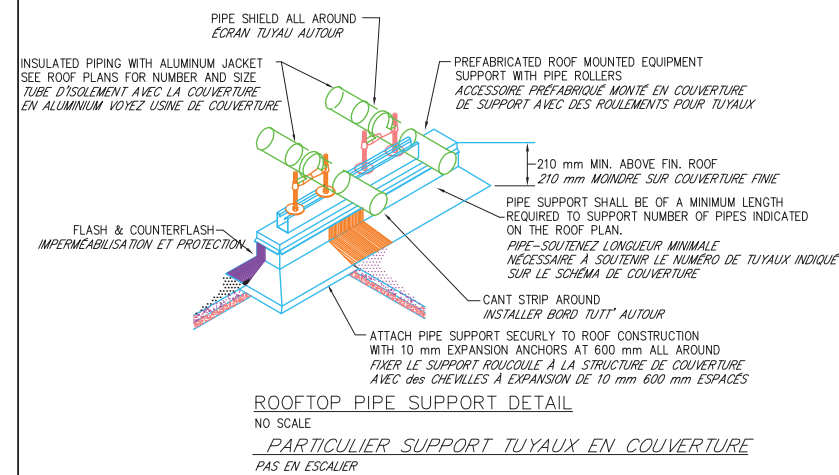
FLEX. CONN. FREE LENGTH 6J INSTALL W/SPACE
BETWEEN DUCT ENDS 4J
LONGUEUR LIBRE DE LA CONNEXION FLEXIBLE
PARÈS À 6J, INSTALLER AVEC PLACE ENTRE LES TERMINAUX
DU CANAL MÊME 4J

FLEX. CONN. TO BE SAME PRESSURE
CLASS AS ATTACHED DUCTWORK
LE CONNECTEUR FLEXIBLE DOIT AVOIR
LA MÊME CLASSE DE PRESSION DU CANAL

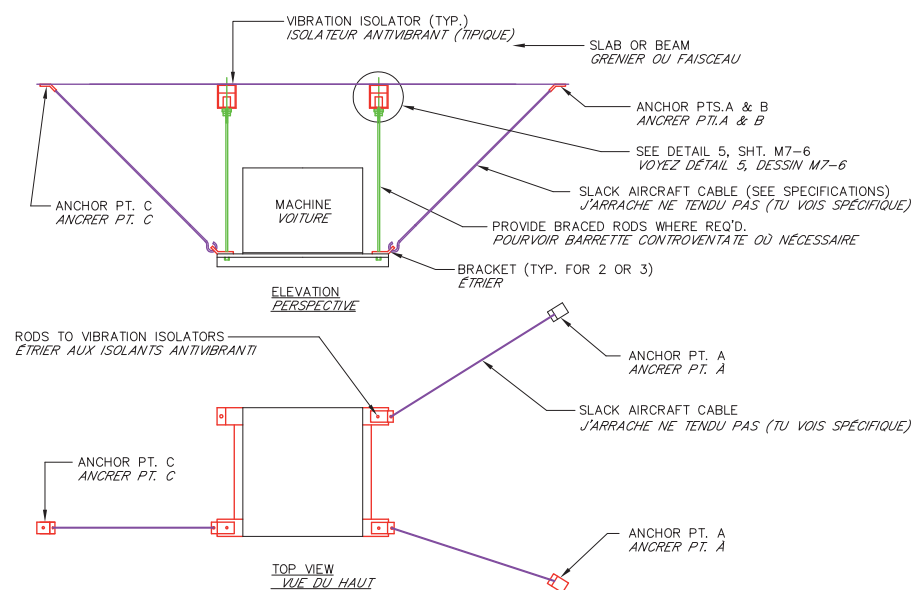
"J" IS 50 mm
J ET " 50 mm

TYPICAL DUCT CONNECTION AT SEISMIC JOINT
NO SCALE
CONNEXION TYPIQUE DE CANAL AU JOINT SISMIQUE
PAS EN ESCALIER

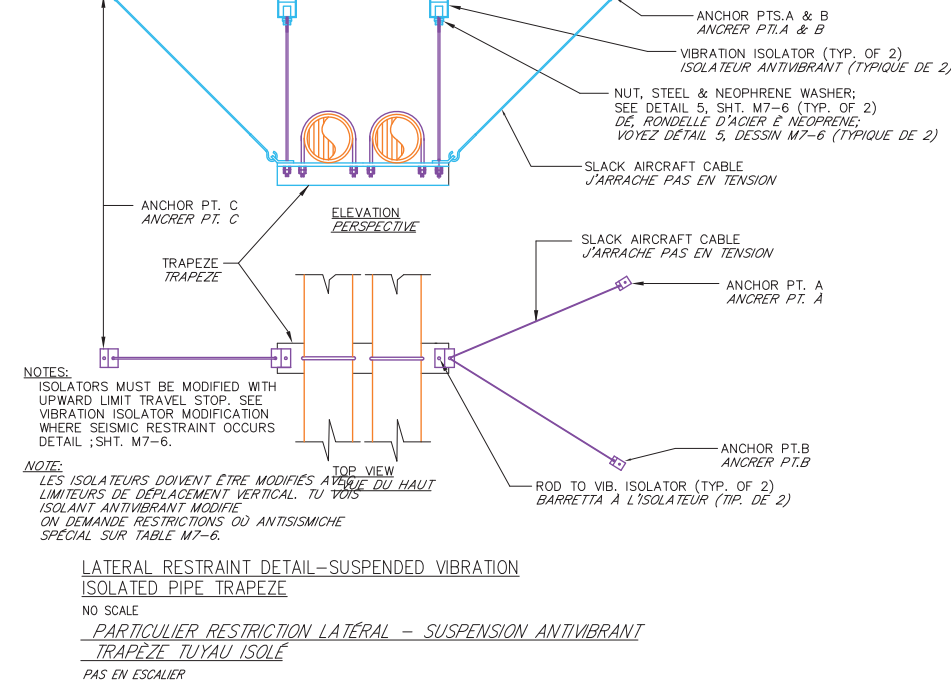
DETAIL # 8


ROOFTOP PIPE SUPPORT DETAIL
NO SCALE
PARTICULIER SUPPORT TUYAUX EN COUVERTURE
PAS EN ESCALIER

DETAIL # 10


LATERAL RESTRAINT DETAIL - SUSPENDED EQUIPMENT
NO SCALE
U PARTICULIER TRACTION - APPAREILLAGES SUSPENDUS
NO SCALE

DETAIL # 11



NOTES:
ISOLATORS MUST BE MODIFIED WITH
UPWARD LIMIT TRAVEL STOP. SEE
VIBRATION ISOLATOR MODIFICATION
WHERE SEISMIC RESTRAINT OCCURS
DETAIL ; SHT. M7-6.

NOTE:
LES ISOLATEURS DOIVENT ÊTRE MODIFIÉS AVEC
LIMITES DE DEPLACEMENT VERTICAL. TU VOIS
ISOLANT ANTIVIBRANT MODIFIÉ
ON DEMANDE RESTRICTIONS OU ANTISISMICHE
SPECIAL SUR TABLE M7-6.

LATERAL RESTRAINT DETAIL - SUSPENDED VIBRATION
ISOLATED PIPE TRAPEZE
NO SCALE
PARTICULIER RESTRICTION LATÉRAL - SUSPENSION ANTIVIBRANT
TRAPEZE TUYAU ISOLÉ
PAS EN ESCALIER

NO.	DATE	APPROVED	DESCRIPTION	REVISIONS
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PRISMA ENGINEERING SRL Via V. Veneto, 10 30020 Vidor (PD) - Italy Tel. 049/8791800 Fax 049/8791368	MDI XXX
MAS GROUP MAGNIFIC A SERVICE *TITOLO (INGLESE)* *TITOLO (FRANCESE)*	
SCALE: 1:1000	
LOTTO NO. XX - XXX XXX	
DRAWING NO. XXXXXXX	
SHEET X OF XX	
XX-00	



N.	CADICE ART.	DESCRIZIONE SINTETICA	U.M	Q.TA'	PR. UN.	IMPORTO	CAPITOLO	%
			SCAVI					
1	02.01.01a	Scavi a sezione obbligata, etc.	mc.	818,93	11,44	9.368,54		
2	02.02.01a	Reinterri , etc.	mc.	856,41	6,14	5.258,35		
3	02.02.03b	Fornitura, stesa e cilindatura, etc..	mc.	6.692,21	18,59	124.408,26		
			TOTALE CAPITOLO			139.035,14	139.035,14	9,87
			CALCESTRUZZI-ACCIAIO-CASSERI					
4	03.01.09a	Calcestruzzo per magroni, etc..	mc.	82,85	75,07	6.219,40		
5	03.01.10c	Calcestruzzo in fondazione, etc..	mc.	280,05	94,36	26.425,33		
6	12.01.01	Additivo antiermitti	kg.	7.112,29	5,00	35.561,43		
7	03.04.01b	Acciaio Feb44k	kg.	16.802,88	1,08	18.147,11		
8	3.04.02	Rete elettrosaldata, etc.	kg.	176.228,30	1,32	232.621,36		
9	03.01.11a	Casseformi in legno, etc.	mq.	261,24	21,69	5.666,30		
			TOTALE CAPITOLO			324.640,92	324.640,92	23,05
			PAVIMENTI E RIVESTIMENTI					
10	12.01.04a	Pavimento industriale	mq.	22.307,38	28,40	633.529,59		
11	12.01.04b	Trattamento antipolvere, etc.	mq.	22.307,38	3,46	77.183,53		
			TOTALE CAPITOLO			710.713,13	710.713,13	50,46
			CANCELLI					
12	12.01.11	Cancelli scorrevoli in ferro, etc compresa automazione	kg.	4.193,20	3,00	12.579,60		
			TOTALE CAPITOLO			12.579,60	12.579,60	0,89
			SISTEMAZIONE AREE VERDI					
13	14.01.01	Stesa e modellazione terra di coltivo, etc	mc.	7.655,54	26,25	200.957,93		
14	14.01.02	Aratura meccanica, etc..	mq.	7.655,54	0,315	2.411,50		
15	14.01.03	Vangatura meccanica, etc..	mq.	7.655,54	0,222	1.689,53		
16	14.01.04	Messa a dimora piante, etc..	cad.	40	100,00	4.000,00		
17	14.01.05	Formazione di prato, etc.. compreso seme	mq.	3.500,00	3,00	10.500,00		
18	14.01.06	Concimazione piante, etc..	cad.	40	0,60	24,00		
19	14.01.07	Concimazione prato, etc..	mq.	3.500,00	0,52	1.820,00		
			TOTALE CAPITOLO			221.412,95	221.412,95	15,72
			TOTALE LAVORI			1.408.381,74	1.408.381,74	100

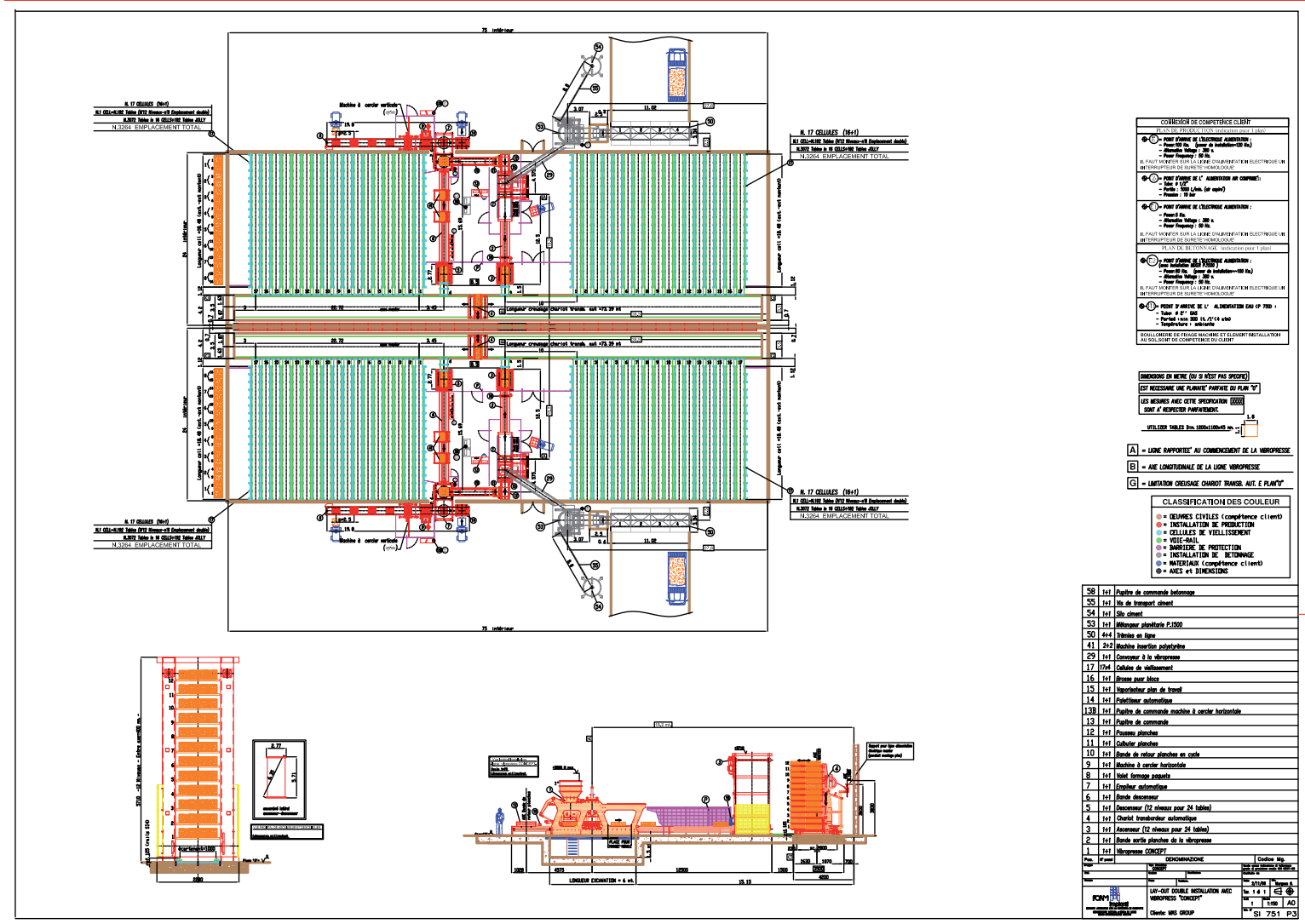
QUADRO RIEPILOGATIVO		AMUT
COSTO TOTALE	Euro	1.408.381,74
TOTALE AREE ESTERNE	mq.	29.962,92
COSTO MEDIO	Euro/m	47,00

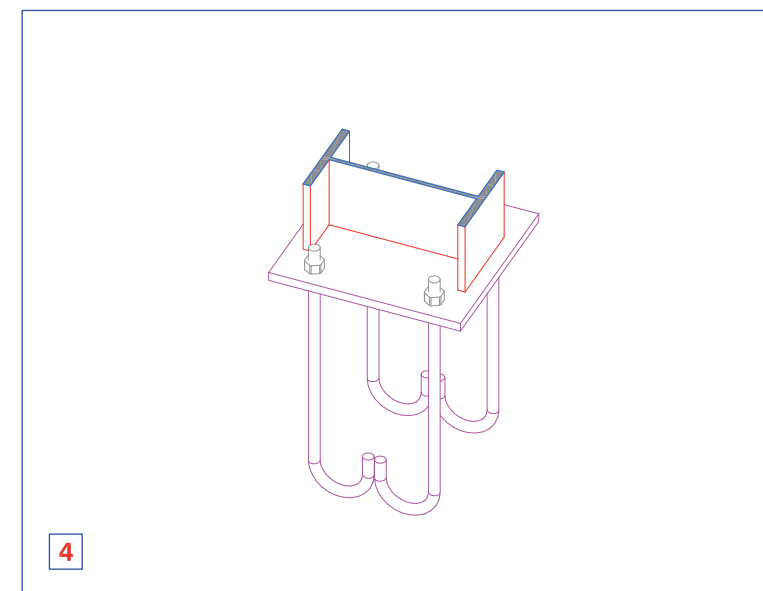
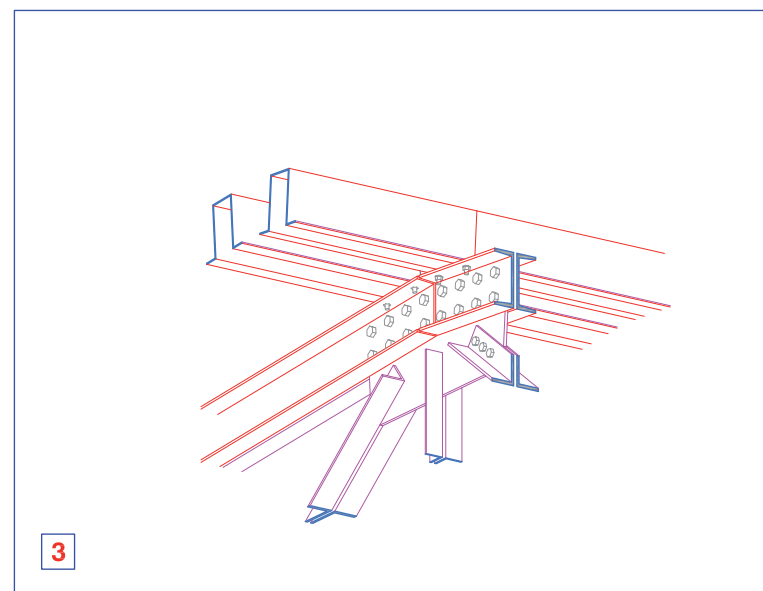
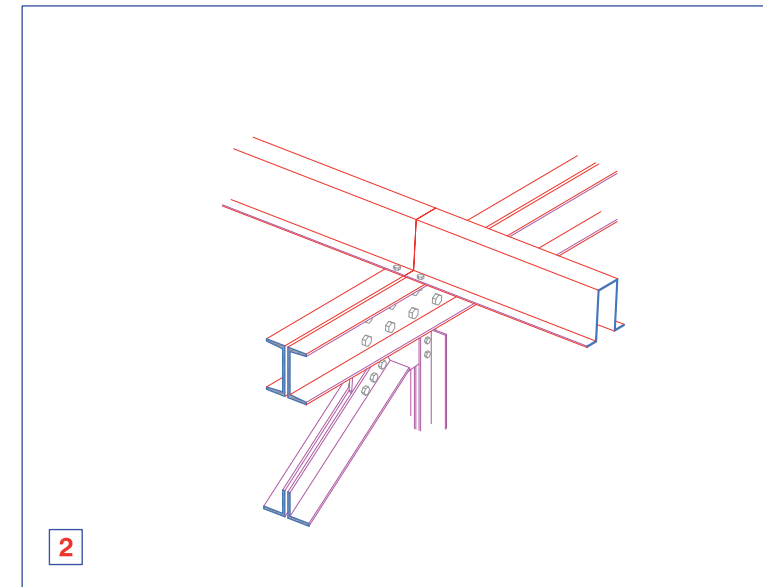
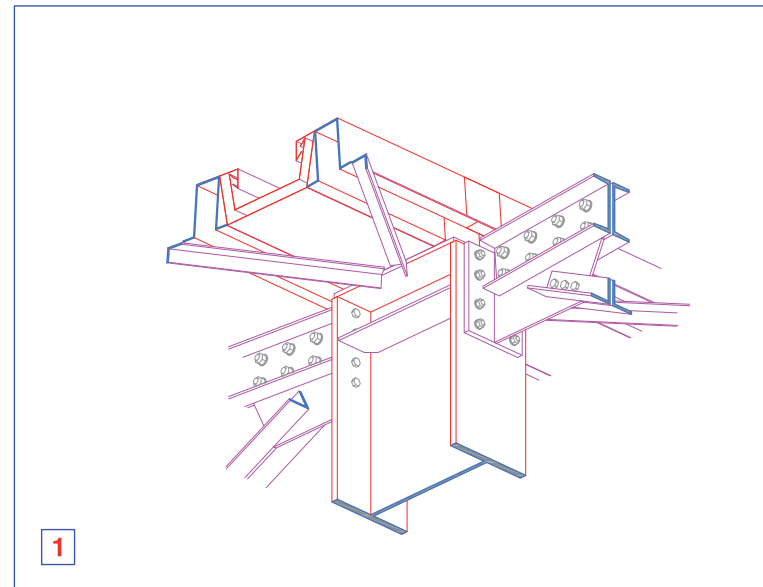


STIMA DEI LAVORI							
N. CODICE ART.	DESCRIZIONE SINTETICA	U.M.	Q.TA'	PR. UN. EURO	IMPORTO EURO	CAPITOLO	%
SCAVI							
1	02.01.01a Scavi a sezione aperta, etc..	mc.	2.582,12	6,00	15.492,70		
2	02.01.05.a Scavi a sezione obbligata, etc.	mc.	2.812,79	11,44	32.178,32		
3	02.02.01a Reinieri , etc.	mc.	1.698,18	6,14	10.426,84		
4	03.01.01d Palo trivellato	ml.	2.160,00	82,92	179.107,20		
5	02.02.03b Fornitura, stesa e clindratura, etc..	mc.	1.504,44	18,59	27.967,56		
			TOTALE CAPITOLO		265.172,63	265.172,63	35,04
CALCESTRUZZI-ACCIAIO-CASSERI							
6	03.01.09a Calcestruzzo per magroni, etc..	mc.	286,57	75,07	21.513,15		
7	03.01.10c Calcestruzzo in fondazione, etc..	mc.	732,28	94,36	69.097,94		
8	12.01.01 Additivo antieranti	kg.	266,74	5,00	1.333,72		
9	03.04.01b Acciaio FeB44k	kg.	94.828,40	1,08	102.414,67		
10	3.04.02 Rete elettrosaldata, etc.	kg.	25.074,02	1,32	33.097,71		
11	12.01.02 Ferri a U, chiusura pannelli, etc.	Kg.	0,00	2,00	0,00		
12	03.01.11a Casseformi in legno, etc.	mq.	1.814,46	21,69	39.355,59		
			TOTALE CAPITOLO		266.812,79	266.812,79	35,25
MURATURE-TAVOLATI-DIVISIONI INTERNE							
13	05.01.09b Muratura in blocchi di cls, spess. 15 cm etc..	mq.	94,32	21,04	1.984,49		
14	05.01.09c Muratura in blocchi di cls, spess. 20 cm etc..	mq.	272,32	22,38	6.094,52		
15	05.01.09.d Muratura in blocchi di cls, spess. 25 cm etc..	mc.	0,00	186,14	0,00		
			TOTALE CAPITOLO		8.079,01	8.079,01	1,07
INTONACI							
16	07.01.02c Intonaco rustico, su pareti in forati	mq.	80,40	17,56	1.411,82		
17	07.01.03c Intonaco a civile	mq.	380,56	18,74	7.131,69		
			TOTALE CAPITOLO		8.543,52	8.543,52	1,13
VESPAI							
18	12.01.03 Vespaio coniglio, etc.	mq.	131,04	55,20	7.233,41		
			TOTALE CAPITOLO		7.233,41	7.233,41	0,96
PAVIMENTI E RIVESTIMENTI							
19	12.01.04a Pavimento industriale	mq.	5.014,80	28,40	142.420,44		
20	12.01.04b Trattamento antipolvere, etc.	mq.	5.014,80	3,46	17.351,22		
21	3.02.10 Sottofondi, etc..	mq.	131,04	11,75	1.539,72		
22	08.01.18d Piastrelle in gres, etc..	mq.	211,44	25,00	5.286,00		
23	07.02.03b Controsoffitto , etc..	mq.	131,04	32,48	4.256,18		
			TOTALE CAPITOLO		170.853,56	170.853,56	22,57



QUADRO RIEPILOGATIVO	
COSTO CAPANNONE	Euro 756.863,91
SUPERFICIE CAPANNONE	mq. 5.014,80
COSTO MEDIO	Euro/mq. 150,93

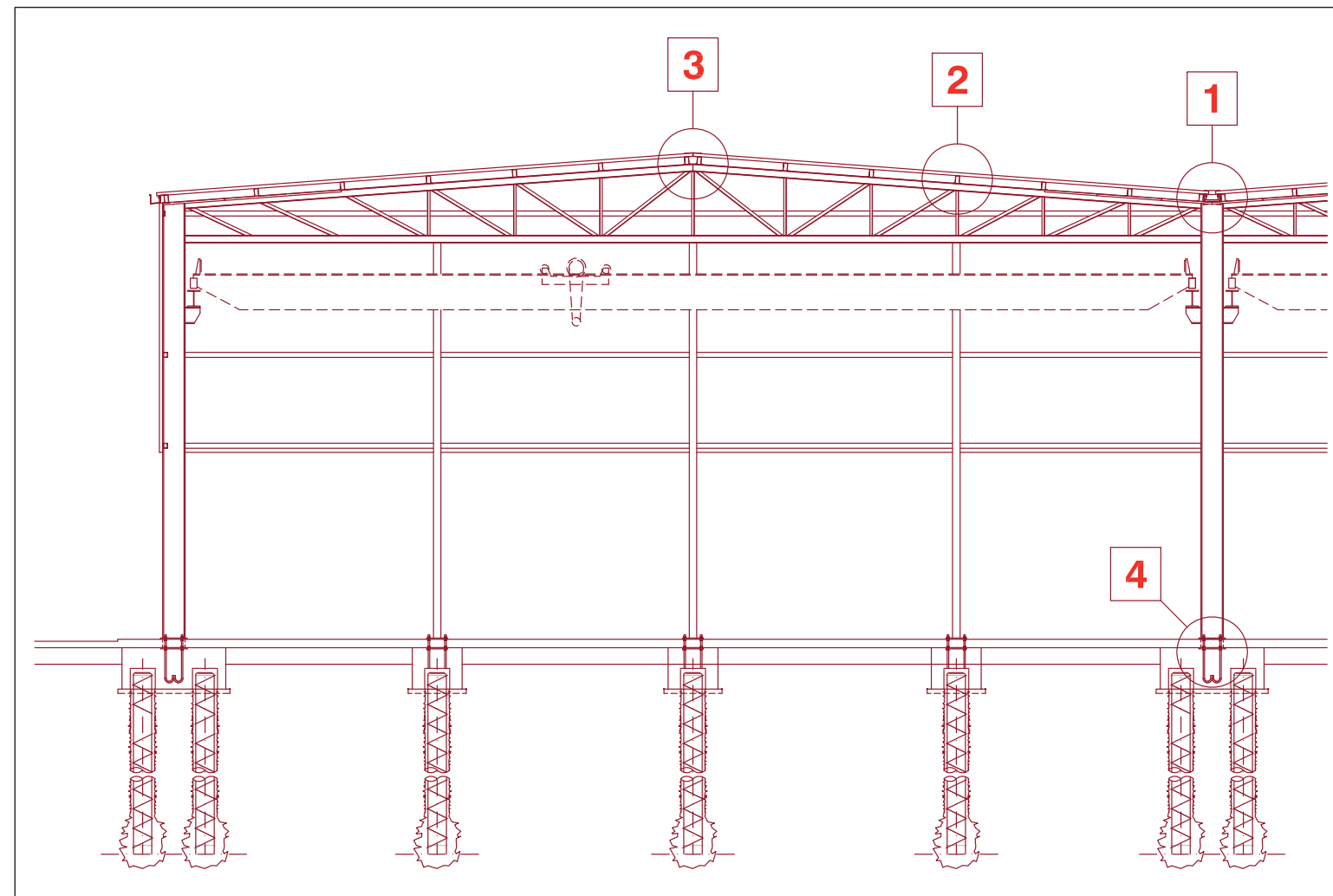




**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

A1

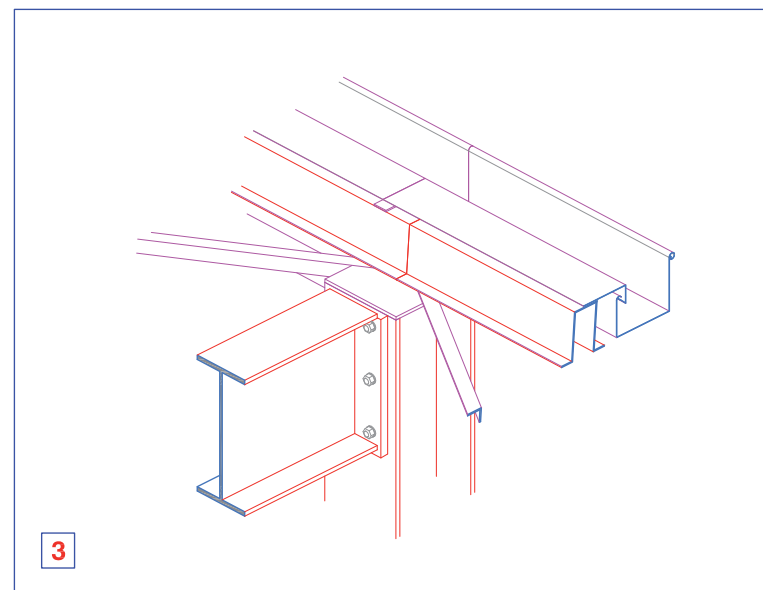
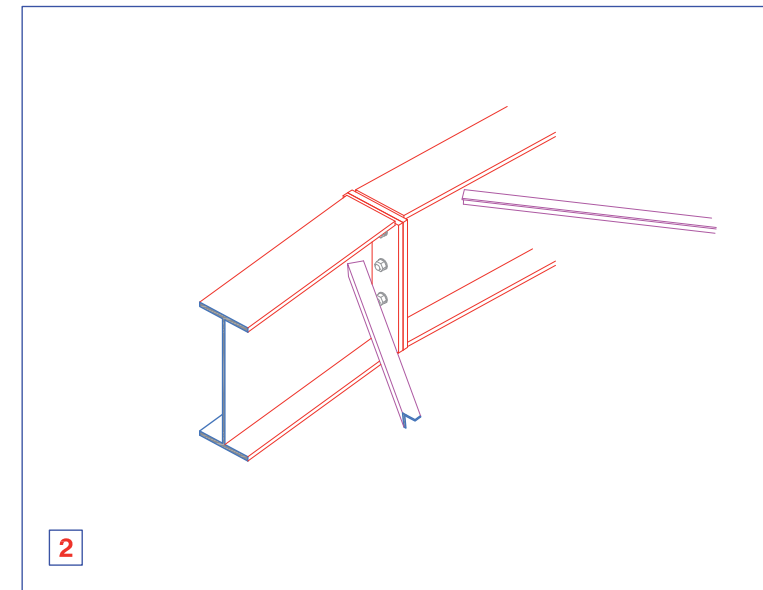
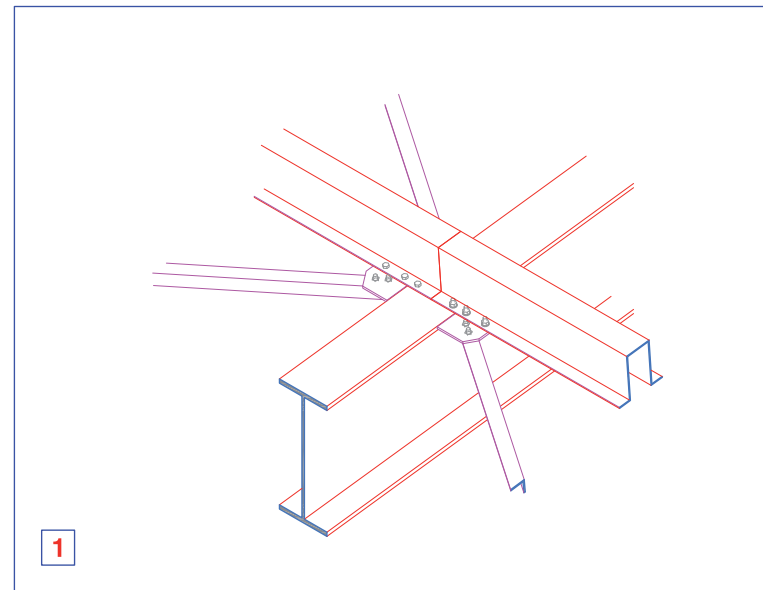
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

A

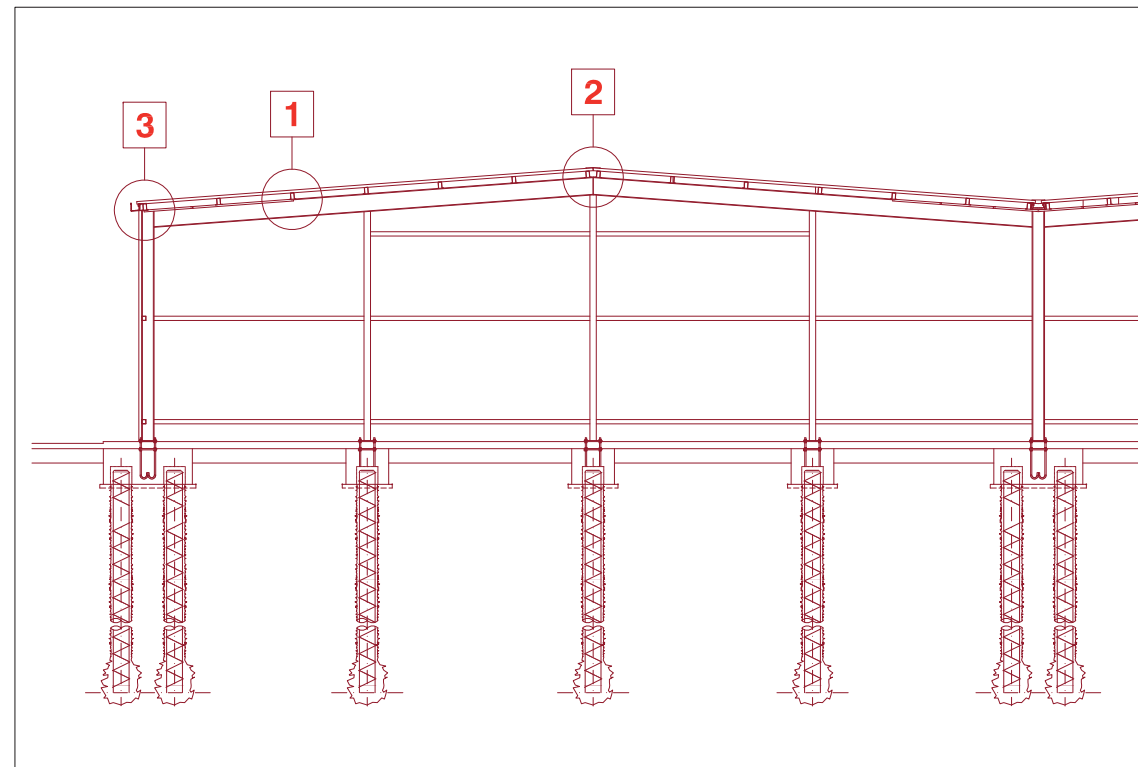
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

B1

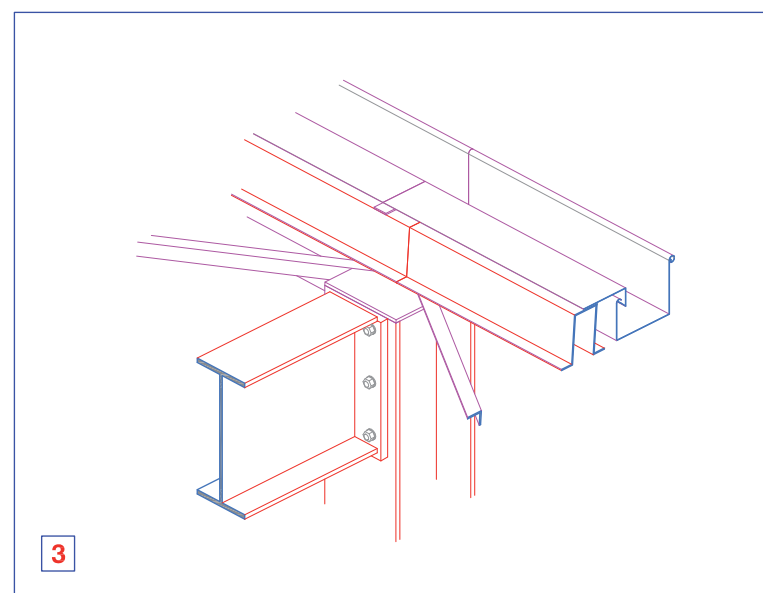
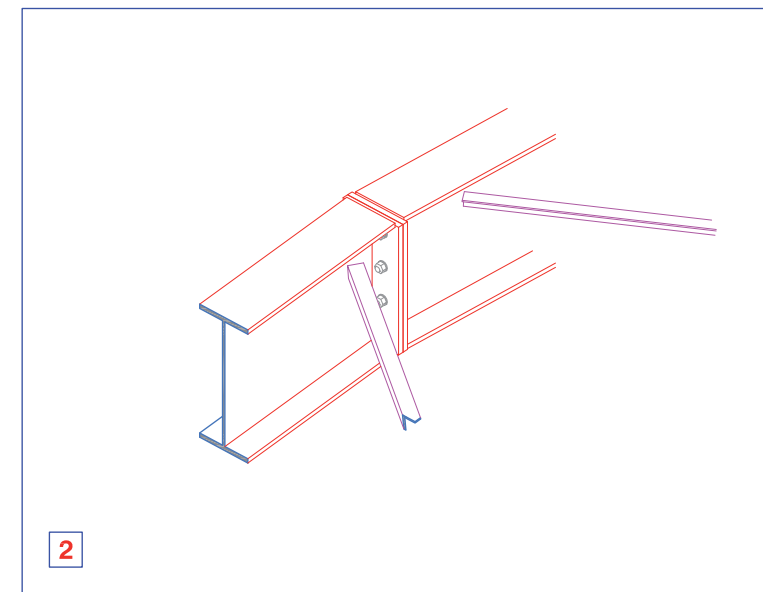
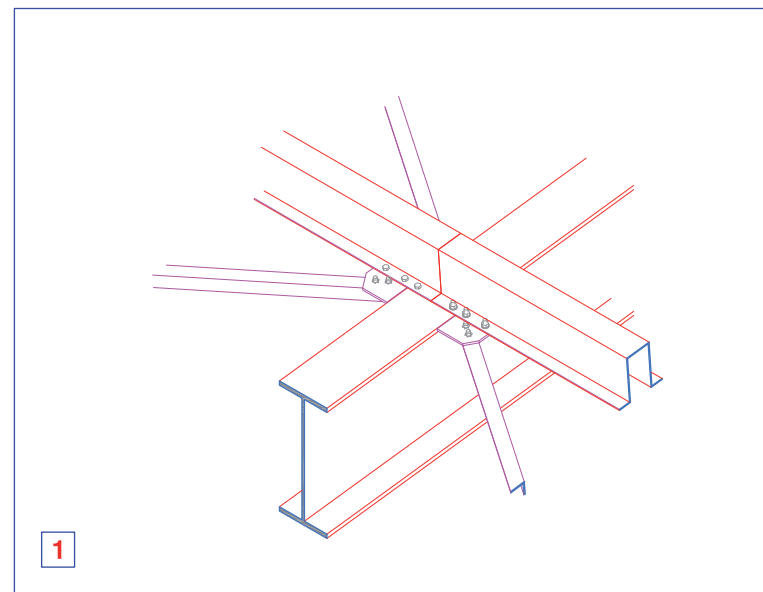
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

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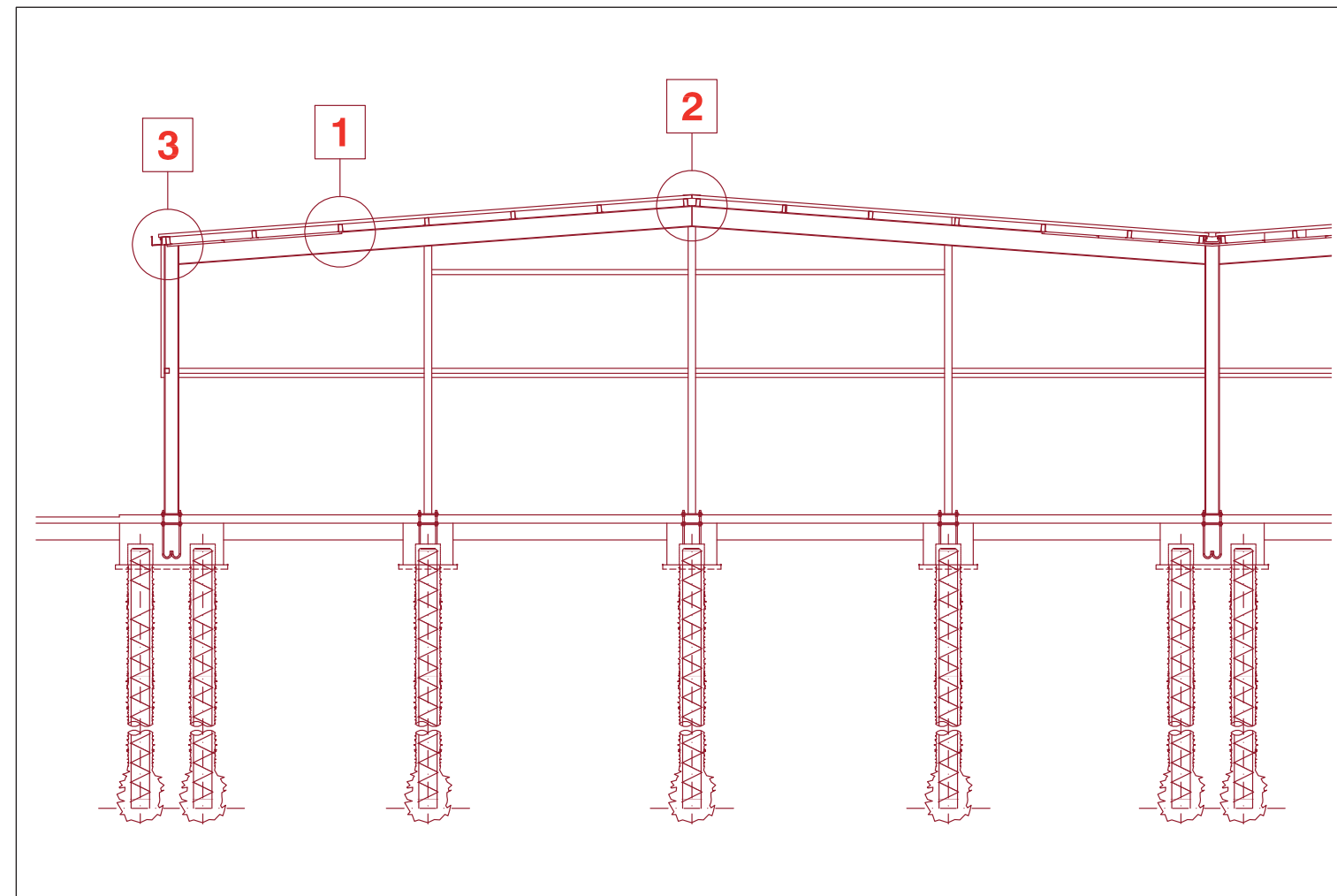
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

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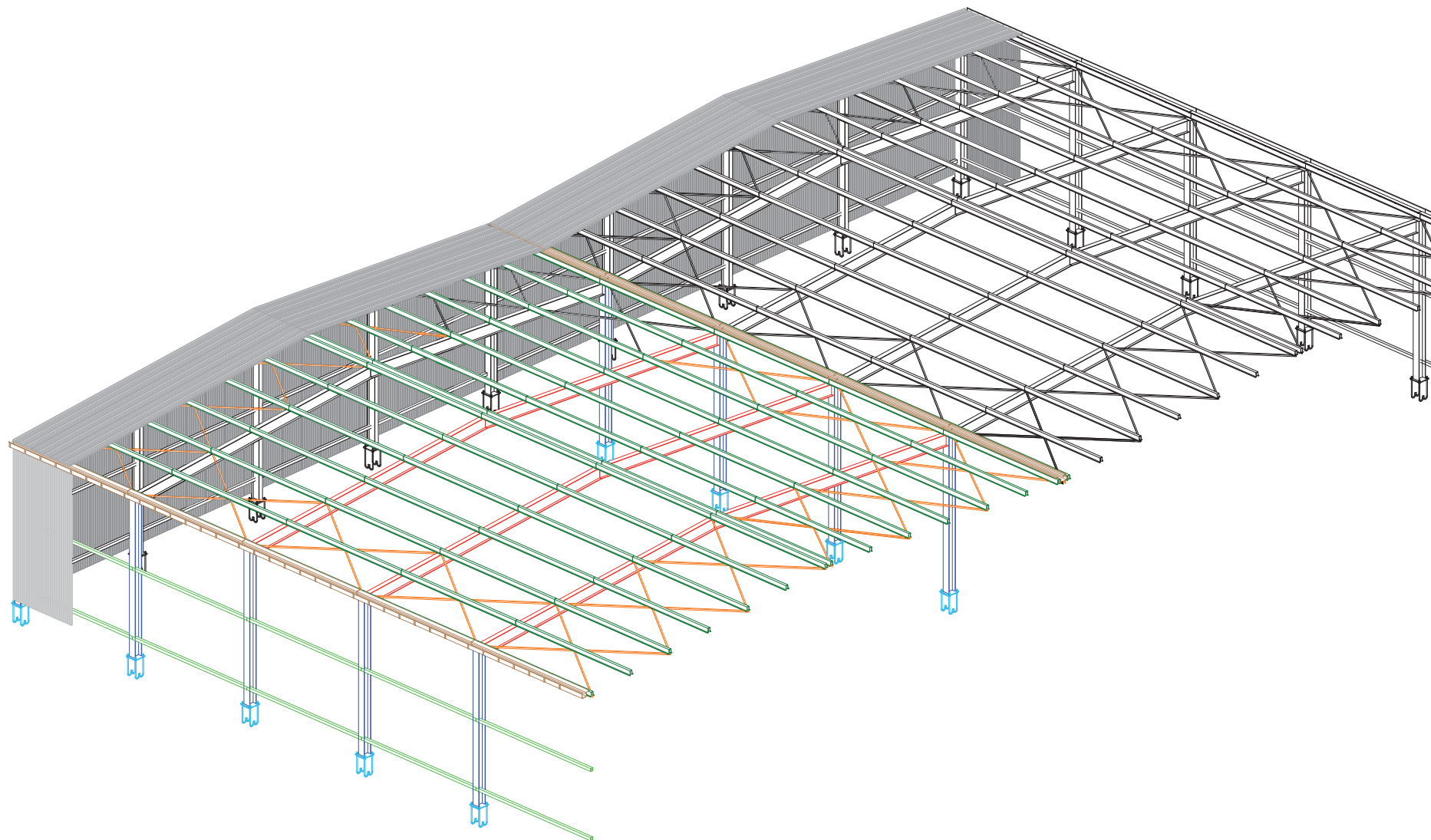
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

C

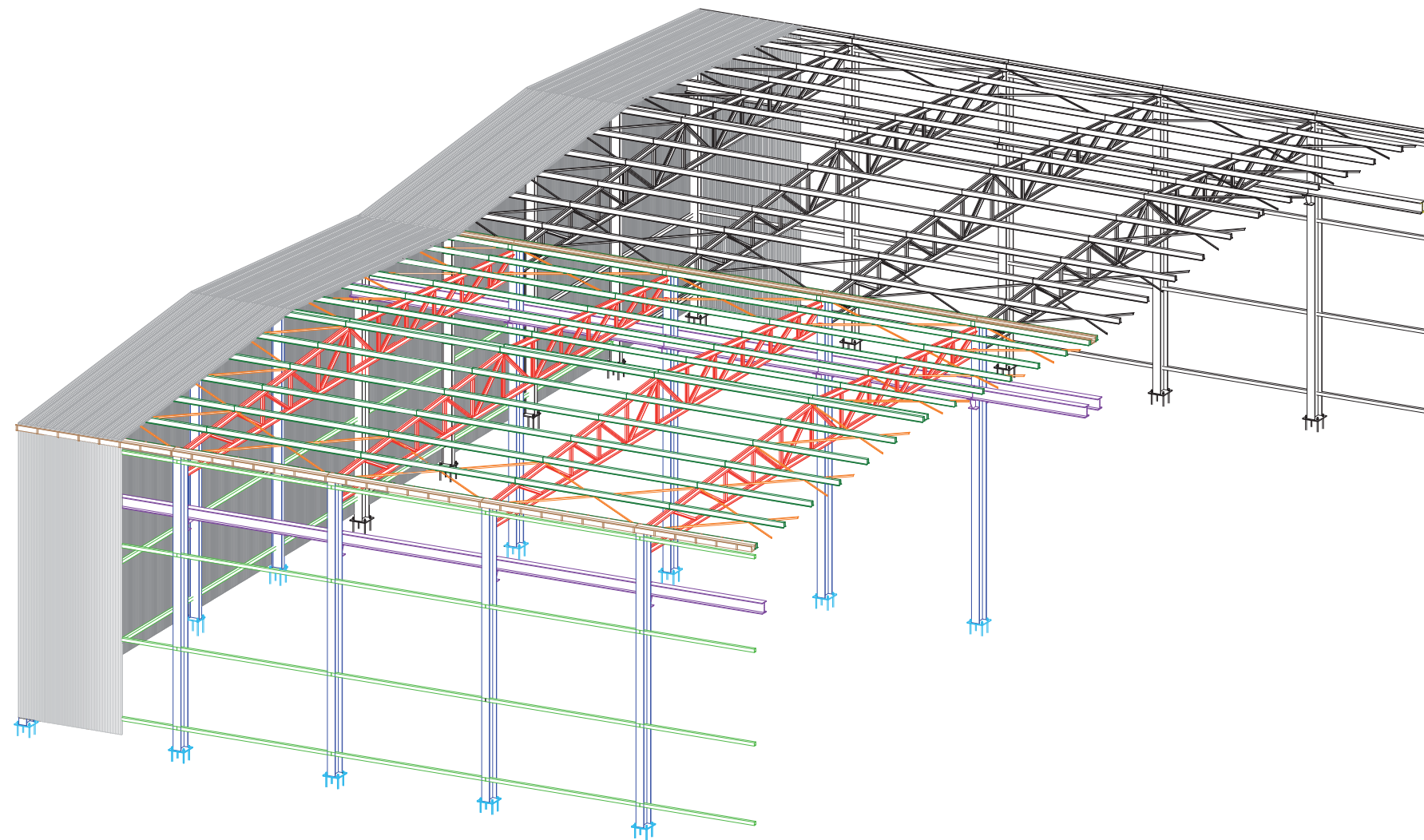
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

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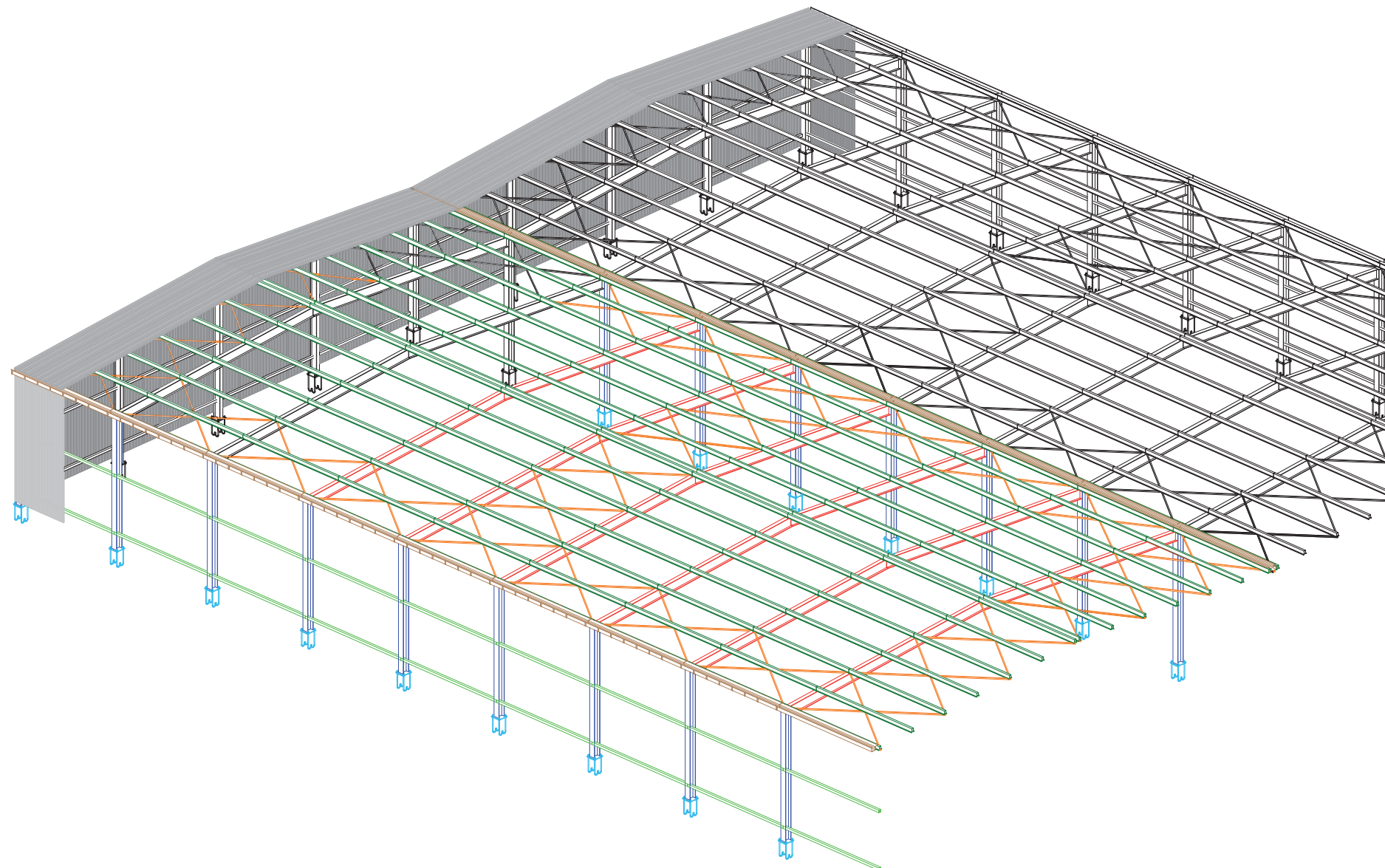
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

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ATTIVITA'/RUOLO	COMPETENZE	LINEA		TURNO		TOTALE
		QUANTITA'	PRODUTTIVA N°3	LAVORATIVO		
Direttore di impianto	Laureato	1			2	1
Capi reparto / capi turno	Diplomati	1		3		6
Ricezione materie prime BAGS (produzione 1200 ton gg) Svuotamento Big-Bag e caricamento sili Controllo Insacchettamento e rifornimento sacchi Supporto pallettizzazione e filmatura Immagazzinamento prodotto Spedizione prodotto Amministrazione Chimici Manutenzione	Carrellista Generici patente guida (carrelli)	3		3	2	18
	Generici	3		3	2	18
	Generici	1		3	2	6
	Generici	1		3	2	6
	Carrellista Generici patente guida (carrelli)	2		3	2	12
	Carrellista Generici patente guida (carrelli)	2		3	2	12
	Impiegati/e Controllo qualità prodotto	3		2	0	5
	Tecnici / formati	3				3
						89

750 3,5 214,2857143

GRUPPO MAS									
LOTTO		SISTEMAZIONI	PAESE	COSTA D'AVORIO	UNICA				
50		ESTERNE		SOCIETA'	GLOBAL ENG.				
		PARAMETRI SIGNIFICATIVI		NOTE					
N	CADICE ART.	DESCRIZIONE SINTETICA	U.M	Q.TA'	PR. UN.	IMPORTO	CAPITOLO	%	
			SCAVI						
1	02.01.01a	Scavi a sezione obbligata, etc.	mc.	2.219,71	11,44	25.393,51			
2	02.02.01a	Reinfern. etc.	mc.	2.332,02	6,14	14.318,62			
3	02.02.03b	Fornitura, stesa e cilindatura, etc.	mc.	16.268,06	18,59	302.423,31			
			TOTALE CAPITOLO			342.135,43		342.135,43 10,87	
CALCESTRUZZO/ACCIAIO-CASSERI									
4	03.01.09a	Calcestruzzo per magroni, etc.	mc.	218,59	75,07	16.409,70			
5	03.01.10c	Calcestruzzo in fondazione, etc..	mc.	753,63	94,36	71.112,72			
6	12.01.01	Additivo antirermi	kg.	17.398,51	5,00	86.992,56			
7	03.04.01b	Acciaio FeB44k	kg.	45.217,92	1,08	48.835,35			
8	3.04.02	Rete elettrosaldata, etc.	kg.	428.392,35	1,32	565.477,90			
9	03.01.11a	Casseformi in legno, etc.	mq.	432,64	21,69	9.383,96			
			TOTALE CAPITOLO			798.212,20		798.212,20 25,36	
PAVIMENTI E RIVESTIMENTI									
10	12.01.04a	Pavimento industriale	mq.	54.226,88	28,40	1.540.043,39			
11	12.01.04b	Trattamento antipolvere, etc.	mq.	54.226,88	3,46	187.625,00			
			TOTALE CAPITOLO			1.727.668,40		1.727.668,40 54,90	
CANCELLI									
12	12.01.11	Cancelli scorrevoli in ferro, etc. compresa automazione	kg.	8.386,40	3,00	25.159,20			
			TOTALE CAPITOLO			25.159,20		25.159,20 0,80	
SISTEMAZIONE AREE VERDI									
13	14.01.01	Stesa e modellazione terra di coltivo, etc.	mc.	9.136,00	26,25	239.820,00			
14	14.01.02	Aratura meccanica, etc.	mq.	9.136,00	0,315	2.877,84			
15	14.01.03	Vangatura meccanica, etc..	mq.	9.136,00	0,222	2.028,19			
16	14.01.04	Messa a dimora piante, etc.	cad.	90	100,00	9.000,00			
17	14.01.05	Formazione di prato, etc. compreso seme	mq.	0,00	3,00	0,00			
18	14.01.06	Concimazione piante, etc.	cad.	90	0,60	54,00			
19	14.01.07	Concimazione prato, etc..	mq.	0,00	0,52	0,00			
			TOTALE CAPITOLO			253.780,03		253.780,03 8,06	
			TOTALE LAVORI			3.146.955,26		3.146.955,26 100	

QUADRO RIEPILOGATIVO		GLOBAL ENG.
COSTO TOTALE	Euro	3.146.955,26
TOTALE AREE ESTERNE	mq.	63.362,88
COSTO MEDIO	Euro/m	49,67



GRUPPO MAS									
LOTTO		1		PAESE		COSTA D'AVORIO		PROGR. 1	
50		TIPOLOGIA CAPANNONE		C		CAPANNONI UGUALI		1 SOC. GLOBAL ENG	
STIMA DEI LAVORI									
N. ART.	CODICE DESCRIZIONE SINTETICA	U.M	Q.TA'	PR. UN. EURO	IMPORTO EURO	CAPITOLO	%		
SCAVI									
1	02.01.01a Scavi a sezione aperta, etc..	mc.	13.086,81	6,00	78.520,86				
2	02.01.05.a Scavi a sezione obbligata, etc.	mc.	14.330,69	11,44	163.943,14				
3	02.02.01a Rinforri , etc.	mc.	8.802,07	6,14	54.044,74				
4	03.01.01d Palo trivellato	ml.	16.200,00	82,92	1.343.304,00				
5	02.02.03b Fornitura, stesa e cilindatura, etc..	mc.	7.731,44	18,59	143.727,49				
			TOTALE CAPITOLO		1.783.540,23		1.783.540,23	39,29	
CALCESTRUZZI-ACCIAIO-CASSERI									
6	03.01.09a Calcestruzzo per magroni, etc..	mc.	2.149,60	76,07	161.370,78				
7	03.01.10c Calcestruzzo in fondazione, etc..	mc.	4.931,16	94,36	465.304,26				
8	12.01.01 Additivo antiemulsi	kg.	1.724,30	5,00	8.621,52				
9	03.04.01b Acciaio FeB44k	kg.	712.223,00	1,08	769.200,84				
10	3.04.02 Rete elettrosaldata, etc.	kg.	128.857,35	1,32	170.091,71				
11	12.01.02 Ferri a U, chiusura pannelli, etc.	Kg.	0,00	2,00	0,00				
12	03.01.11a Casseformi in legno, etc.	mq.	12.721,29	21,69	275.924,78				
			TOTALE CAPITOLO		1.850.513,89		1.850.513,89	40,76	
MURATURE-TAVOLATI-DIVISIONI INTERNE									
13	05.01.09b Muratura in blocchi di cls, spess. 15 cm etc..	mq.	0,00	21,04	0,00				
14	05.01.09c Muratura in blocchi di cls, spess. 20 cm etc..	mq.	0,00	22,38	0,00				
15	05.01.09.d Muratura in blocchi di cls, spess. 25 cm etc..	mc.	0,00	186,14	0,00				
			TOTALE CAPITOLO		0,00			0,00	0,00
INTONACI									
16	07.01.02c Intonaco rustico, su pareti in forati	mq.	0,00	17,56	0,00				
17	07.01.03c Intonaco a civile	mq.	0,00	18,74	0,00				
			TOTALE CAPITOLO		0,00			0,00	0,00
VESPAI									
18	12.01.03 Vespajo con igloo, etc.	mq.	0,00	55,20	0,00				
			TOTALE CAPITOLO		0,00			0,00	0,00
PAVIMENTI E RIVESTIMENTI									
19	12.01.04a Pavimento industriale	mq.	25.771,47	28,40	731.909,77				
20	12.01.04b Trattamento antipolvere, etc.	mq.	25.771,47	3,46	89.169,29				
21	3.02.10 Sotofondi, etc..	mq.	0,00	11,75	0,00				
22	08.01.18d Pastrelle in gres, etc..	mq.	0,00	25,00	0,00				
23	07.02.03b Controsoffitto, etc..	mq.	0,00	32,48	0,00				
			TOTALE CAPITOLO		821.079,05		821.079,05	18,09	



QUADRO RIEPILOGATIVO	
COSTO CAPANNONE	Euro 4.539.643,17
SUPERFICIE CAPANNONE	mq. 25.771,47
COSTO MEDIO	Euro/mq. 176,15

GRUPPO MAS											
LOTTO		GLOBAL ENG.		1	PAESE		COSTA D'AVORIO		PROGR.	1	
TIPOLOGIA CAPANNONE					1/1 di A		CAPANNONI UGUALI		1	SOC.	GLOBAL ENG.
STIMA DEI LAVORI											
N.	CODICE ART.	DESCRIZIONE SINTETICA	U.M	Q.TA'	PR. UN. EURO	IMPORTO EURO		CAPITOLO		%	
SCAVI											
1	02.01.01a	Scavi a sezione aperta, etc..	mc.	3.151,78	6,00	18.910,66					
2	02.01.05.a	Scavi a sezione obbligata, etc.	mc.	5.443,64	11,44	62.275,26					
3	02.02.01a	Reinterri, etc.	mc.	3.285,96	6,14	20.052,98					
4	03.01.01d	Palo trivellato	ml.	5.360,00	82,92	444.451,20					
5	02.02.03b	Fornitura, stesa e cindratura, etc..	mc.	1.839,26	18,59	34.191,88					
		TOTALE CAPITOLO				579.881,98		579.881,98	40,40		
CALCESTRUZZI-ACCIAIO-CASSERI											
6	03.01.09a	Calcestruzzo per magroni, etc..	mc.	673,81	75,07	50.582,94					
7	03.01.10c	Calcestruzzo in fondazione, etc..	mc.	1.634,76	94,36	154.255,95					
8	12.01.01	Additivo antiriverti	kg.	480,95	5,00	2.404,76					
9	03.04.01b	Acciaio Feb44k	kg.	229.416,40	1,08	247.769,71					
10	3.04.02	Rete elettrosaldata, etc.	kg.	30.654,37	1,32	40.463,76					
11	12.01.02	Ferri a U, chiusura pannelli, etc.	Kg.	0,00	2,00	0,00					
12	03.01.11a	Casseformi in legno, etc.	mq.	4.089,21	21,69	88.694,92					
		TOTALE CAPITOLO				584.172,05		584.172,05	40,70		
MURATURE-TAVOLATI-DIVISIONI INTERNE											
13	05.01.09b	Muratura in blocchi di cls, spess. 15 cm etc..	mq.	50,52	21,04	1.062,94					
14	05.01.09c	Muratura in blocchi di cls, spess. 20 cm etc..	mq.	357,04	22,38	7.990,56					
15	05.01.09.d	Muratura in blocchi di cls, spess. 25 cm etc..	mc.	0,00	186,14	0,00					
		TOTALE CAPITOLO				9.053,50		9.053,50	0,63		
INTONACI											
16	07.01.02c	Intonaco rustico, su pareti in forati	mq.	123,00	17,56	2.159,88					
17	07.01.03c	Intonaco a civile	mq.	335,08	18,74	6.279,40					
		TOTALE CAPITOLO				8.439,28		8.439,28	0,59		
VESPAI											
18	12.01.03	Vespai con igloo, etc.	mq.	81,76	55,20	4.513,15					
		TOTALE CAPITOLO				4.513,15		4.513,15	0,31		
PAVIMENTI E RIVESTIMENTI											
19	12.01.04a	Pavimento industriale	mq.	6.130,87	28,40	174.116,80					
20	12.01.04b	Trattamento antipolvere, etc.	mq.	6.130,87	3,46	21.212,82					
21	3.02.10	Sottfondi, etc..	mq.	81,76	11,75	960,68					
22	08.01.18d	Piastrelle in gres, etc..	mq.	204,76	25,00	5.119,00					
23	07.02.03b	Controsoffitto, etc..	mq.	81,76	32,48	2.655,56					
		TOTALE CAPITOLO				204.064,86		204.064,86	14,22		



QUADRO RIEPILOGATIVO	
COSTO CAPANNONE	Euro 1.435.313,83
SUPERFICIE CAPANNONE	mq. 6.130,87
COSTO MEDIO	Euro/mq. 234,11

GRUPPO MAS										
LOTTO		GLOBAL ENG.	1	PAESE	COSTA D'AVORIO		PROGR.	1		
TIPOLOGIA CAPANNONE				B	CAPANNONI UGUALI			1	SOC.	GLOBAL ENG.
STIMA DEI LAVORI										
N.	CODICE ART.	DESCRIZIONE SINTETICA	U.M	Q.TA'	PR. UN.	IMPORTO		CAPITOLO	%	
SCAVI										
1	02.01.01a	Scavi a sezione aperta, etc..	mc.	275,30	6,00	1.651,82				
2	02.01.05 a	Scavi a sezione obbligata, etc.	mc.	324,29	11,44	3.709,90				
3	02.02.01a	Reinterri , etc.	mc.	245,47	6,14	1.507,17				
4	03.01.01d	Palo trivellato	ml.	560,00	82,92	46.435,20				
5	02.02.03b	Fornitura, stesa e clindratura, etc..	mc.	149,54	18,59	2.779,88				
TOTALE CAPITOLO						56.083,97		56.083,97	23,00	
CALCESTRUZZI-ACCIAIO-CASSERI										
6	03.01.09a	Calcestruzzo per magroni, etc..	mc.	123,41	75,07	9.264,49				
7	03.01.10c	Calcestruzzo in fondazione, etc..	mc.	109,20	94,36	10.304,11				
8	12.01.01	Additivo antirimti	kg.	41,71	5,00	208,54				
9	03.04.01b	Acciaio Feb44k	kg	18.768,40	1,08	20.269,87				
10	3.04.02	Rete elettrosaldata, etc.	kg	2.492,28	1,32	3.289,80				
11	12.01.02	Ferrè a U, chiusura pannelli, etc.	Kg.	0,00	2,00	0,00				
12	03.01.11a	Casseformi in legno, etc.	mq.	287,09	21,69	6.226,98				
TOTALE CAPITOLO						49.563,79		49.563,79	20,33	
MURATURE-TAVOLATI-DIVISIONI INTERNE										
13	05.01.09b	Muratura in blocchi di cls, spess. 15 cm etc.	mq.	320,00	21,04	6.732,80				
14	05.01.09c	Muratura in blocchi di cls, spess. 20 cm etc.	mq.	414,20	22,38	9.269,80				
15	05.01.09 d	Muratura in blocchi di cls, spess. 25 cm etc.	mc.	0,00	186,14	0,00				
TOTALE CAPITOLO						16.002,60		16.002,60	6,56	
INTONACI										
16	07.01.02c	Intonaco rustico, su pareti in forati	mq.	200,00	17,56	3.512,00				
17	07.01.03c	Intonaco a civile	mq.	854,20	18,74	16.007,71				
TOTALE CAPITOLO						19.519,71		19.519,71	8,01	
VESPAI										
18	12.01.03	Vespajo con igloo, etc.	mq.	498,45	55,20	27.514,44				
TOTALE CAPITOLO						27.514,44		27.514,44	11,29	
PAVIMENTI E RIVESTIMENTI										
19	12.01.04a	Pavimento industriale	mq.	498,46	28,40	14.156,12				
20	12.01.04b	Trattamento antipolvere, etc.	mq.	498,46	3,46	1.724,65				
21	3.02.10	Sotfondri, etc.	mq.	498,45	11,75	5.856,79				
22	08.01.18d	Plastreffe in gres, etc.	mq.	698,45	25,00	17.461,25				
23	07.02.03b	Controsoffitto, etc.	mq.	498,45	32,48	16.189,66				
TOTALE CAPITOLO						55.388,47		55.388,47	22,72	



QUADRO RIEPILOGATIVO		
COSTO CAPANNONE	Euro	243.800,97
SUPERFICIE CAPANNONE	mq.	498,46
COSTO MEDIO	Euro/mq.	489,11

GRUPPO MAS										
LOTTO		GLOBAL ENG.	1	PAESE	COSTA D'AVORIO		PROGR.	1		
TIPOLOGIA CAPANNONE					1/1 di A	CAPANNONI UGUALI		1	SOC.	GLOBAL ENG.
STIMA DEI LAVORI										
N. CODICE ART.	DESCRIZIONE SINTETICA	U.M	Q.TA'	PR. UN. EURO	IMPORTO EURO	CAPITOLO	%			
SCAVI										
1	02.01.01a Scavi a sezione aperta, etc..	mc.	377,00	6,00	2.262,00					
2	02.01.05.a Scavi a sezione obbligata, etc.	mc.	420,38	11,44	4.809,10					
3	02.02.01.a Reinterri , etc.	mc.	305,16	6,14	1.873,70					
4	03.01.01.d Palo trivellato	ml.	800,00	82,92	66.336,00					
5	02.02.03b Fornitura, stesa e cilindratura, etc..	mc.	210,00	18,59	3.903,90					
		TOTALE CAPITOLO				79.184,70	79.184,70	48,86		
CALCESTRUZZI-ACCIAIO-CASSERI										
6	03.01.09a Calcestruzzo per magroni , etc..	mc.	63,06	75,07	4.733,64					
7	03.01.10c Calcestruzzo in fondazione, etc..	mc.	140,64	94,36	13.270,79					
8	12.01.01 Additivo antirumori	kg.	57,68	5,00	288,42					
9	03.04.01b Acciaio FeB4k	kg.	25.532,00	1,08	27.574,56					
10	3.04.02 Rete elettrosaldata, etc.	kg.	3.500,00	1,32	4.620,00					
11	12.01.02 Ferri a U, chiusura pannelli, etc.	Kg.	0,00	2,00	0,00					
12	03.01.11a Casseformi in legno, etc.	mq.	354,20	21,69	7.682,60					
		TOTALE CAPITOLO				58.170,01	58.170,01	35,89		
MURATURE-TAVOLATI-DIVISIONI INTERNE										
13	05.01.09b Muratura in blocchi di cls, spess. 15 cm etc..	mq.	0,00	21,04	0,00					
14	05.01.09c Muratura in blocchi di cls, spess. 20 cm etc..	mq.	0,00	22,38	0,00					
15	05.01.09.d Muratura in blocchi di cls, spess. 25 cm etc..	mc.	0,00	186,14	0,00					
		TOTALE CAPITOLO				0,00	0,00	0,00		
INTONACI										
16	07.01.02c Intonaco rustico, su pareti in forati	mq.	0,00	17,56	0,00					
17	07.01.03c Intonaco a civile	mq.	0,00	18,74	0,00					
		TOTALE CAPITOLO				0,00	0,00	0,00		
VESPAI										
18	12.01.03 Vespajo con igloo, etc.	mq.	0,00	55,20	0,00					
		TOTALE CAPITOLO				0,00	0,00	0,00		
PAVIMENTI E RIVESTIMENTI										
19	12.01.04a Pavimento industriale	mq.	700,00	28,40	19.880,00					
20	12.01.04b Trattamento antipolvere, etc.	mq.	700,00	3,46	2.422,00					
21	3.02.10 Sotifondi, etc..	mq.	0,00	11,75	0,00					
22	08.01.18d Piastrelle in gres, etc..	mq.	0,00	25,00	0,00					
23	07.02.03b Controsoffitto , etc..	mq.	0,00	32,48	0,00					
		TOTALE CAPITOLO				22.302,00	22.302,00	13,76		

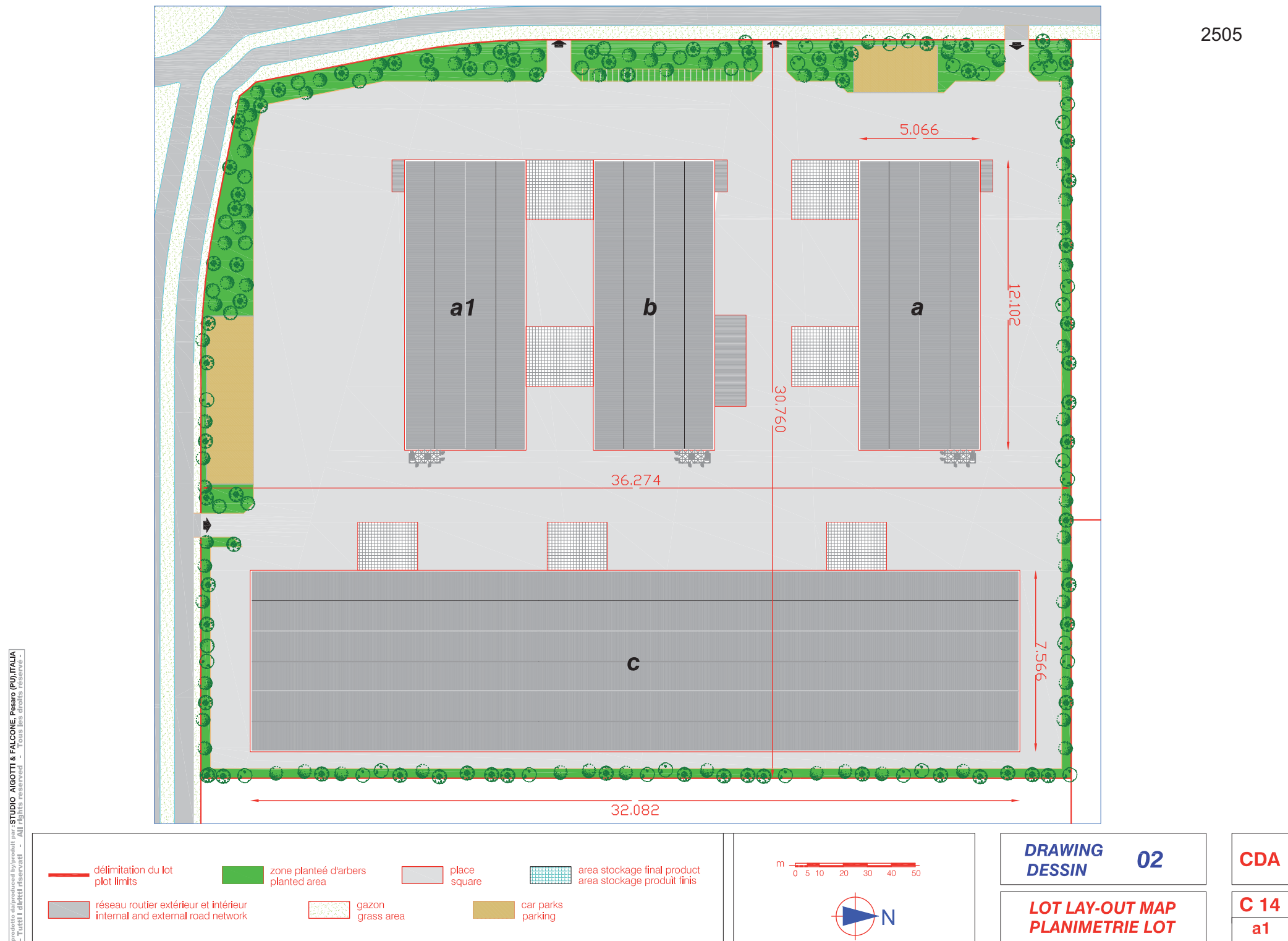


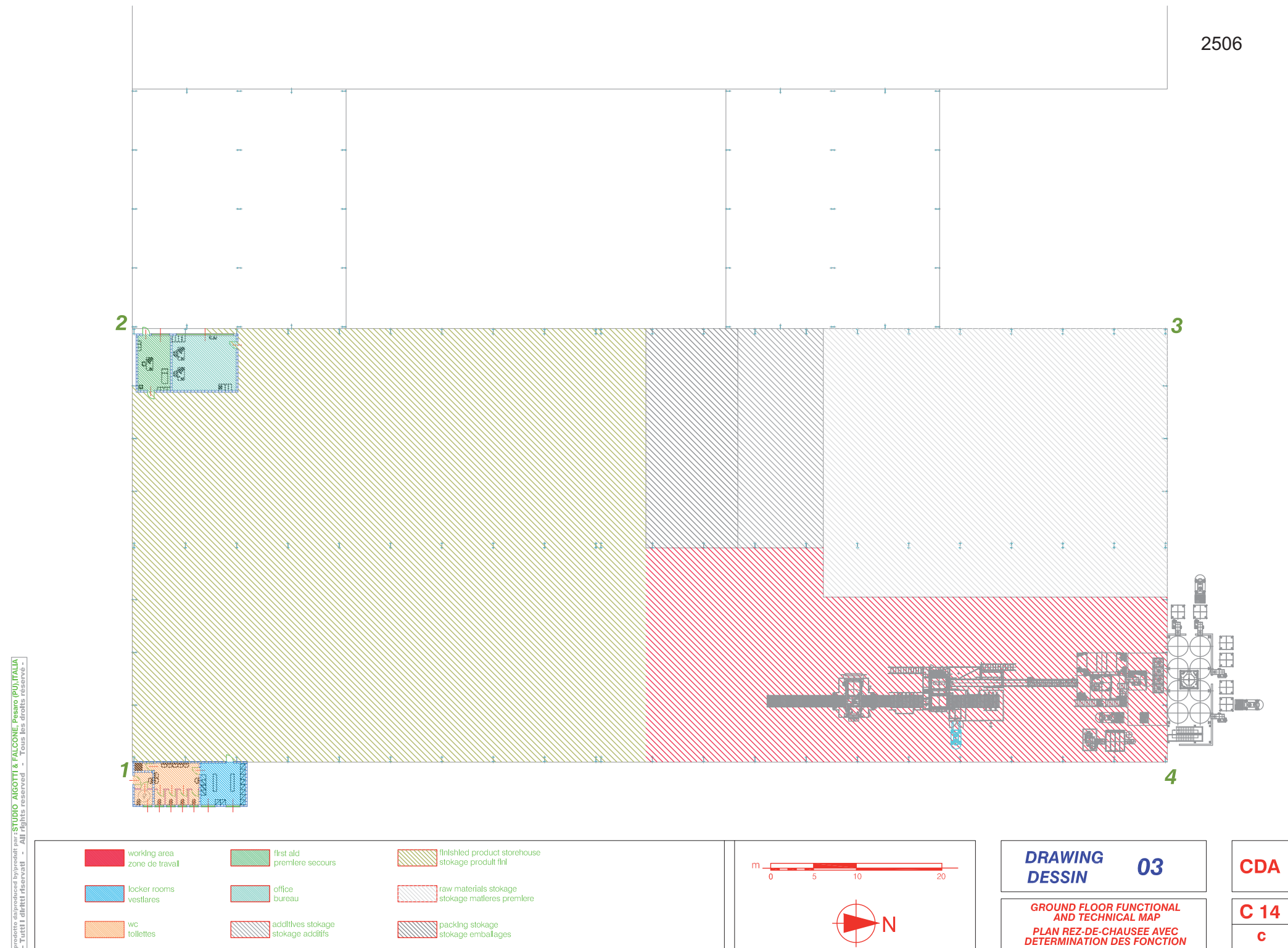
QUADRO RIEPILOGATIVO		
COSTO CAPANNONE	Euro	162.056,71
SUPERFICIE CAPANNONE	mq.	700,00
COSTO MEDIO	Euro/mq.	231,51

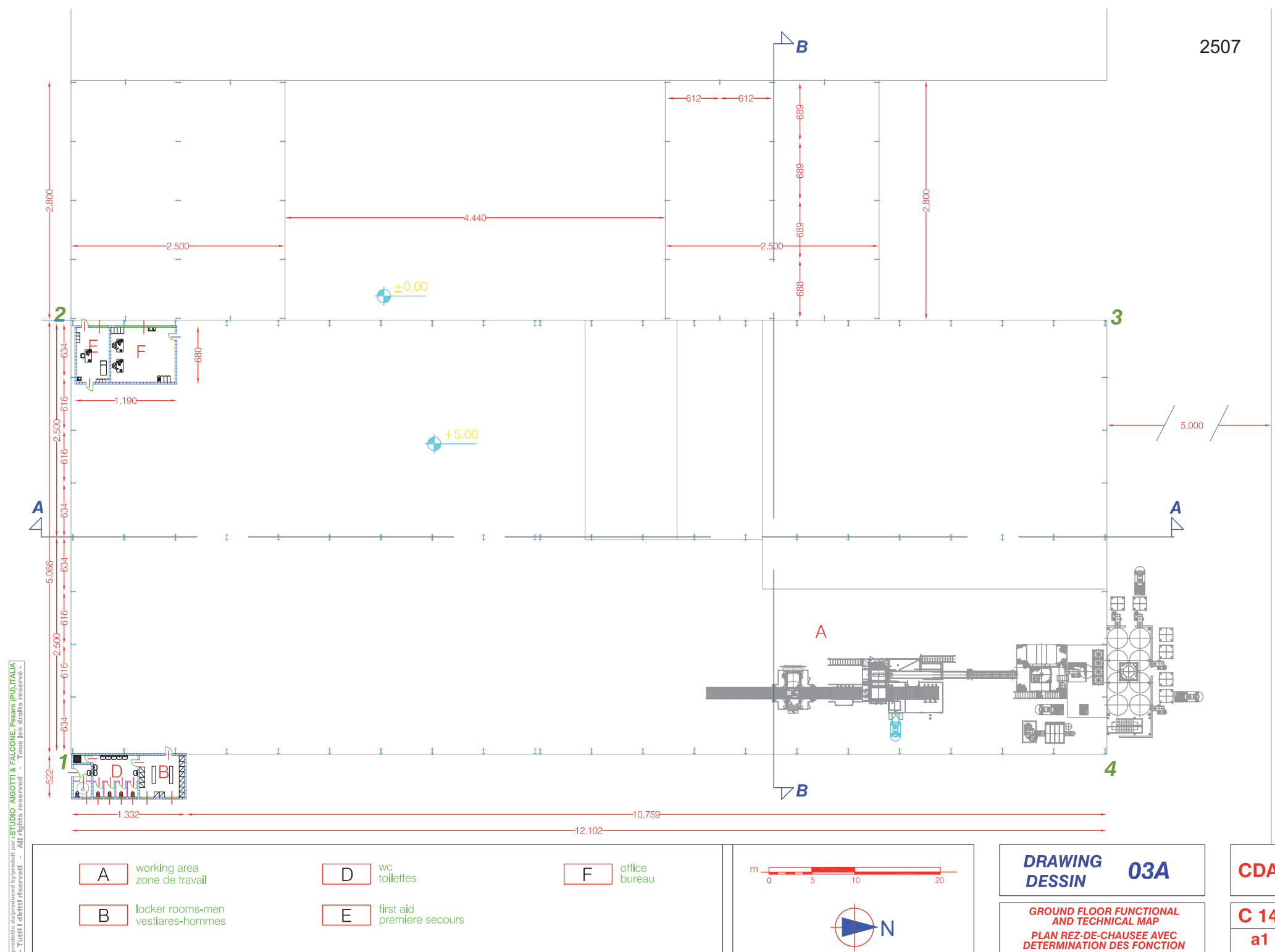
GRUPPO MAS									
LOTTO		GLOBAL ENG.	1	PAESE	COSTA D'AVORIO		PROGR.	1	
TIPOLOGIA CAPANNONE				1/1 di A	CAPANNONI UGUALI		1	SOC.	GLOBAL ENG.
STIMA DEI LAVORI									
N.	CODICE	DESCRIZIONE SINTETICA	U.M	Q.TA'	PR. UN.	IMPORTO	CAPITOLO	%	
ART.					EURO	EURO			
SCAVI									
1	02.01.01a	Scavi a sezione aperta, etc..	mc.	44,69	6,00	268,14			
2	02.01.05a	Scavi a sezione obbligata, etc.	mc.	66,81	11,44	764,31			
3	02.02.01a	Reinterri , etc.	mc.	60,26	6,14	370,03			
4	03.01.01d	Palo trivellato	ml	120,00	82,92	9.950,40			
5	02.02.03b	Fornitura, stesa e cilindatura, etc..	mc.	20,94	18,59	389,23			
		TOTALE CAPITOLO				11.742,10		11.742,10	36,20
CALCESTRUZZI-ACCIAIO-CASSERI									
6	03.01.09a	Calcestruzzo per magroni, etc..	mc.	20,49	75,07	1.538,18			
7	03.01.10c	Calcestruzzo in fondazione, etc..	mc.	22,44	94,36	2.117,44			
8	12.01.01	Additivo antirientri	kg.	7,73	5,00	38,65			
9	03.04.01b	Acciaio FeB44k	kg.	3.941,80	1,08	4.257,14			
10	3.04.02	Rete elettrosaldata, etc.	kg.	348,96	1,32	460,62			
11	12.01.02	Ferri a U ,chiusura pannelli, etc.	Kg.	0,00	2,00	0,00			
12	03.01.11a	Casseformi in legno, etc.	mq.	63,35	21,69	1.374,15			
		TOTALE CAPITOLO				9.786,19		9.786,19	30,17
MURATURE-TAVOLATI-DIVISIONI INTERNE									
13	05.01.09b	Muratura in blocchi di cls, spess. 15 cm etc..	mq.	0,00	21,04	0,00			
14	05.01.09c	Muratura in blocchi di cls, spess. 20 cm etc..	mq.	0,00	22,38	0,00			
15	05.01.09d	Muratura in blocchi di cls, spess. 25 cm etc..	mc.	0,00	186,14	0,00			
		TOTALE CAPITOLO				0,00		0,00	0,00
INTONACI									
16	07.01.02c	Intonaco rustico, su pareti in forati	mq.	0,00	17,56	0,00			
17	07.01.03c	Intonaco a civile	mq.	0,00	18,74	0,00			
		TOTALE CAPITOLO				0,00		0,00	0,00
VESPAI									
18	12.01.03	Vespai con igloo, etc.	mq.	69,79	55,20	3.852,41			
		TOTALE CAPITOLO				3.852,41		3.852,41	11,88
PAVIMENTI E RIVESTIMENTI									
19	12.01.04a	Pavimento industriale	mq.	69,79	28,40	1.982,08			
20	12.01.04b	Trattamento antipolvere, etc.	mq.	69,79	3,46	241,48			
21	3.02.10	Sotfondi, etc..	mq.	69,79	11,75	820,03			
22	08.01.18d	Piastrine in gres, etc..	mq.	69,79	25,00	1.744,75			
23	07.02.03b	Controsoffitto , etc..	mq.	69,79	32,48	2.266,78			
		TOTALE CAPITOLO				7.056,12		7.056,12	21,75

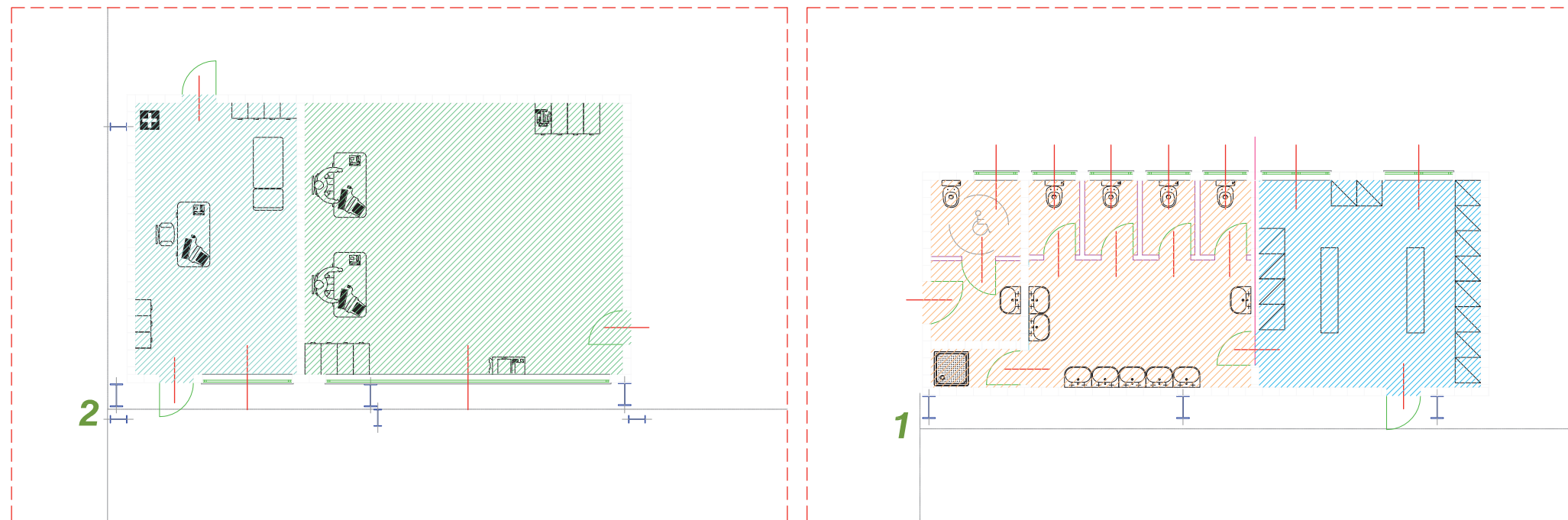


QUADRO RIEPILOGATIVO			
COSTO CAPANNONE	Euro	32.435,82	
SUPERFICIE CAPANNONE	mq.	69,79	
COSTO MEDIO	Euro/mq.	464,75	



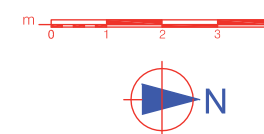






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- | | |
|--|--|
|  locker rooms
vestiaires |  first aid
premiere secours |
|  wc
toilettes |  office
bureau |



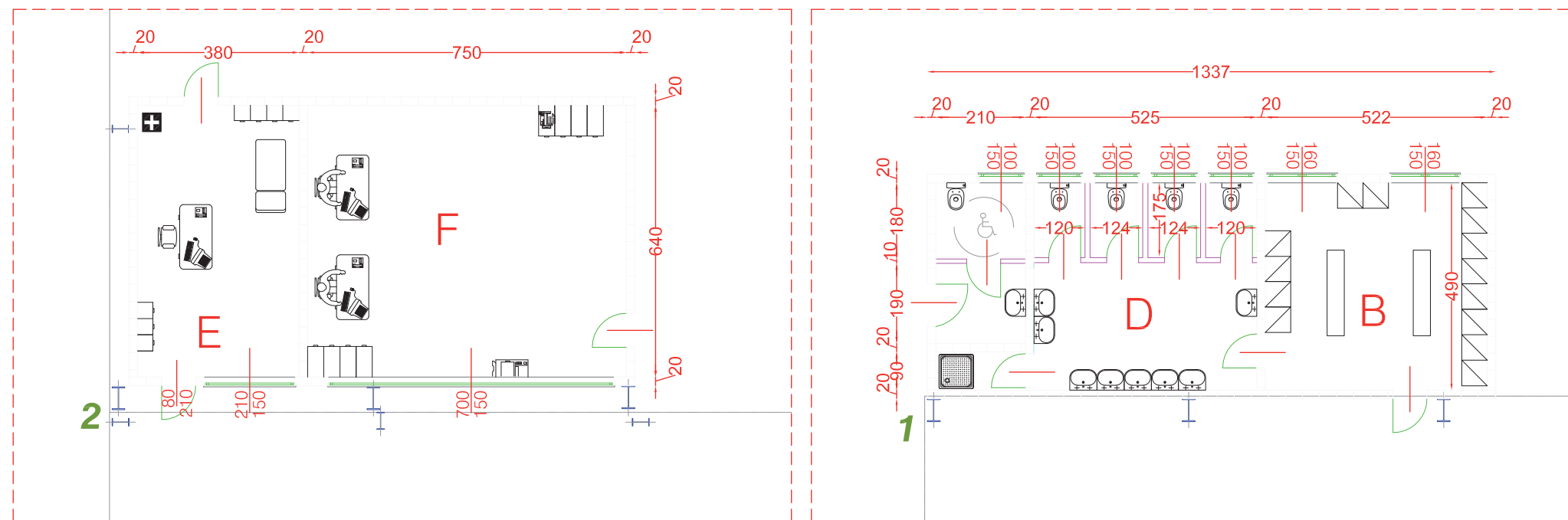
**DRAWING
DESSIN** **04**

GENERAL SERVICES MAP
WITH AREA FUNCTION
PLAN REZ-DE-CHAUSEE
AVEC DETERMINATION DE FUNCTION

CDA

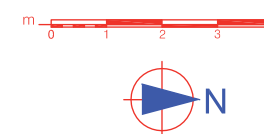
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- | | |
|--|---|
| B locker rooms
vestiaires | E first aid
premiere secours |
| D wc
toilettes | F office
bureau |



DRAWING
DESSIN **04A**

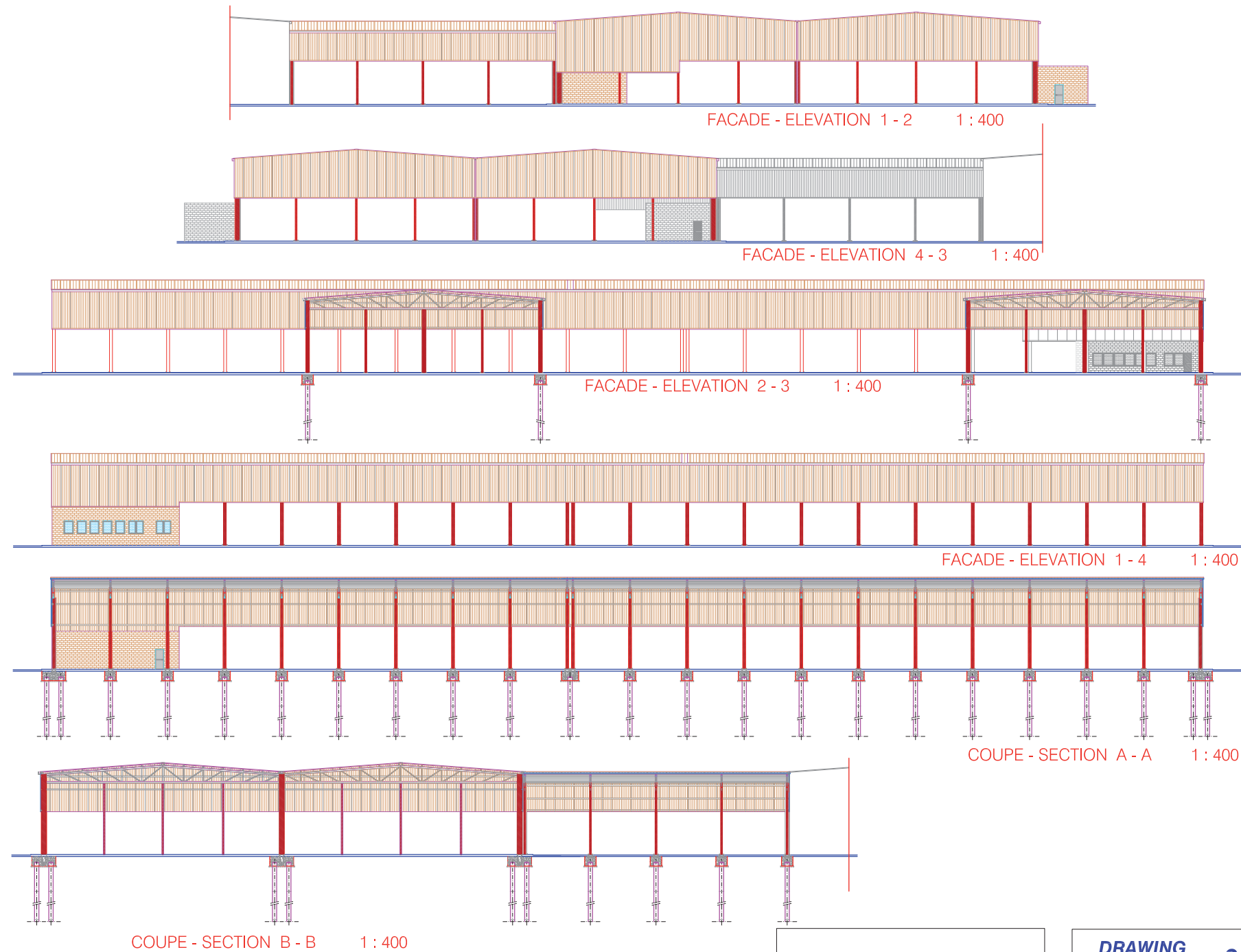
DIMENSIONAL TECHNICAL
GENERAL SERVICES MAP
PLAN SERVICES GENERAL
TECHNIQUE DIMENSIONEL

CDA

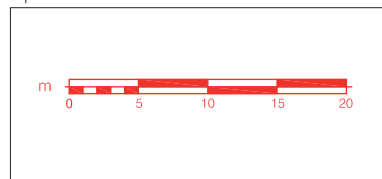
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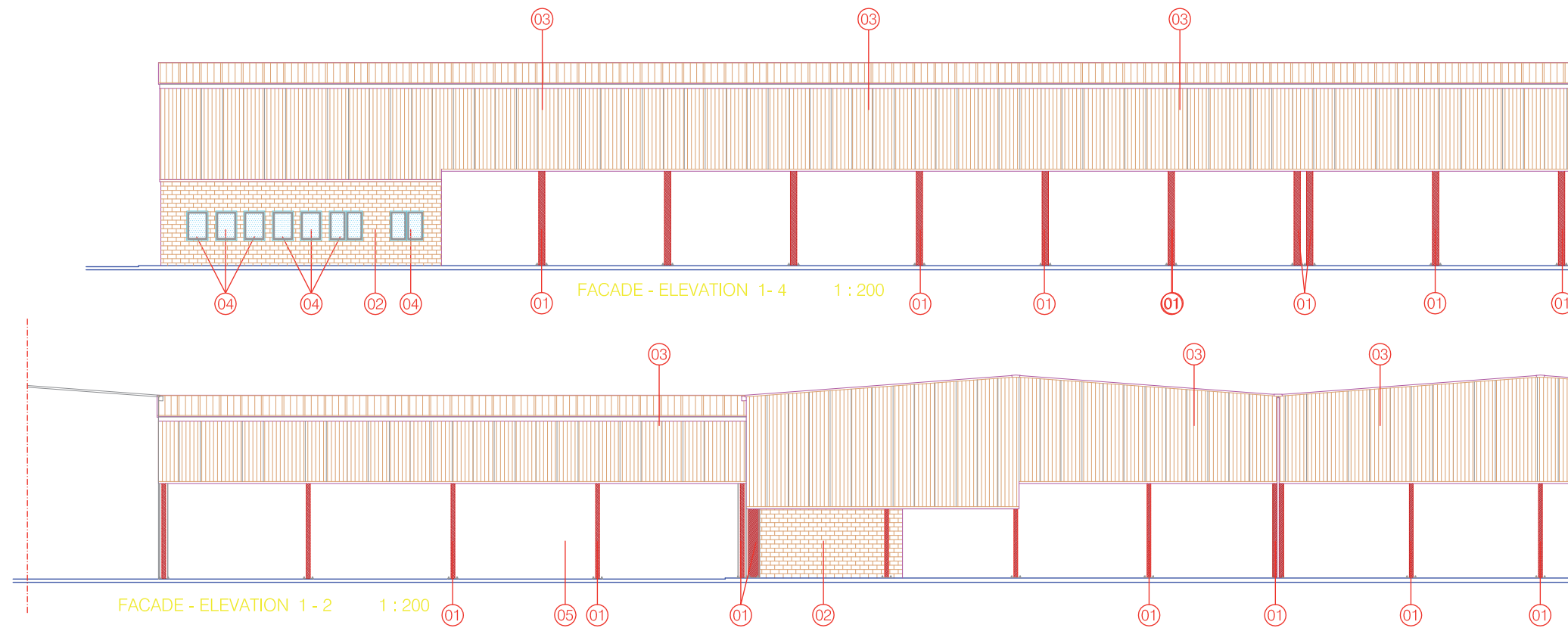
**DRAWING
DESSIN** **06**

**PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS**

CDA

C 14
a1





- ① colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- ② mur de briques en béton vibrant
couleur ocre
vibrate concrete masonry
colour ochre
- ③ panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation
- ④ ribbon aluminium window in with open joint
vasistas and control to man height
double glazing
fenetre-bande en aluminium avec le joint ouvert
vasistas avec le commande de taille a l'homme
double verre
- ⑤ shed
hangar

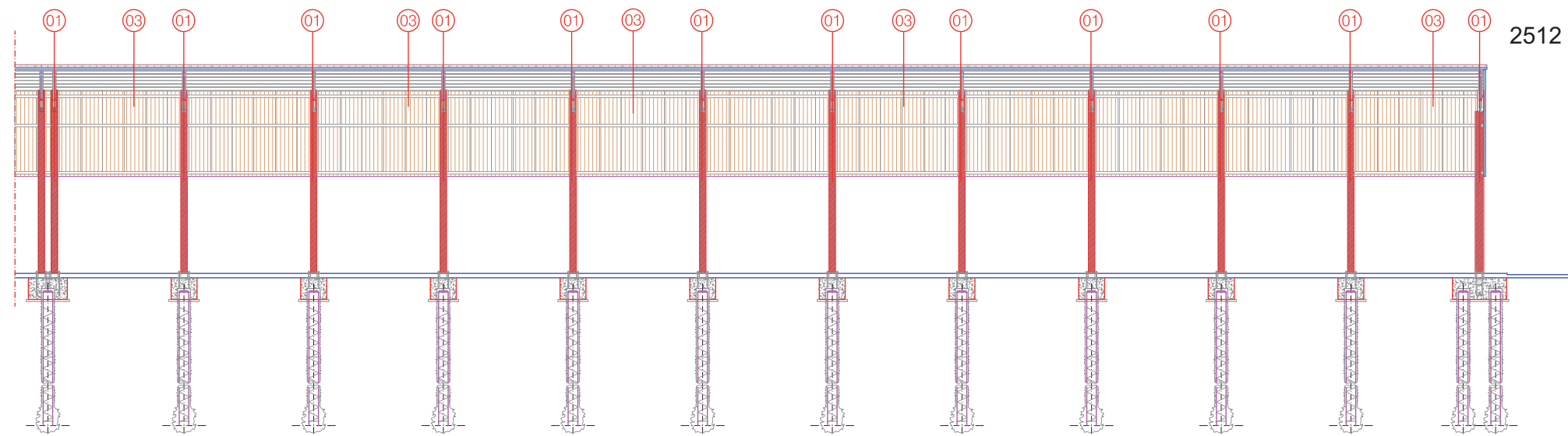
DRAWING
DESSIN **07a**

PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

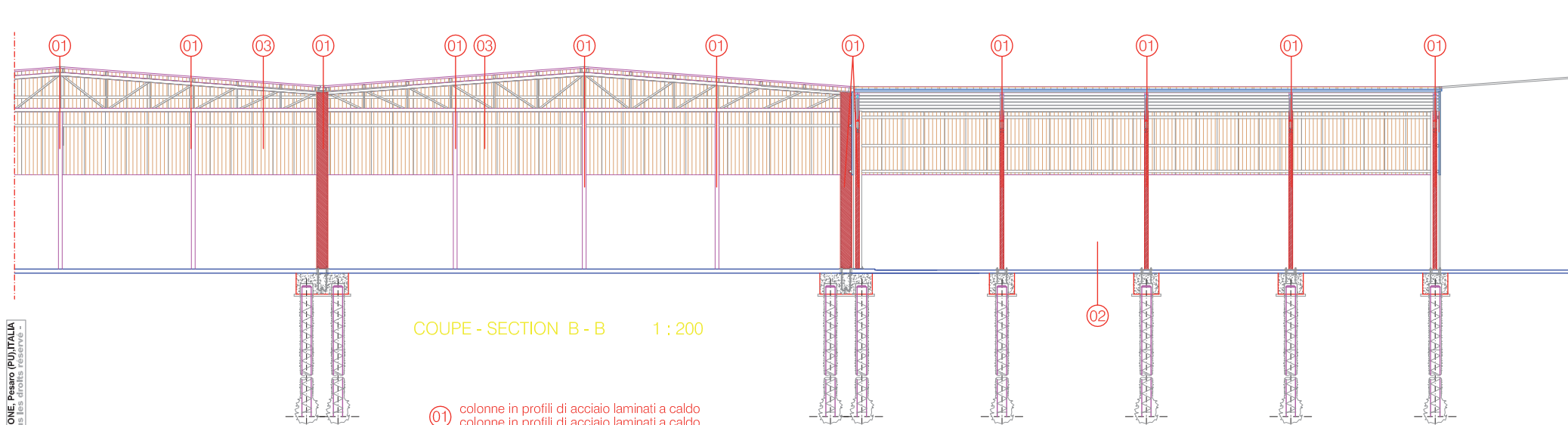
CDA

C 14
a1





COUPE - SECTION A - A 1 : 200



COUPE - SECTION B - B 1 : 200

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 shed
hangar
- 03 panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation

DRAWING
DESSIN **07b**

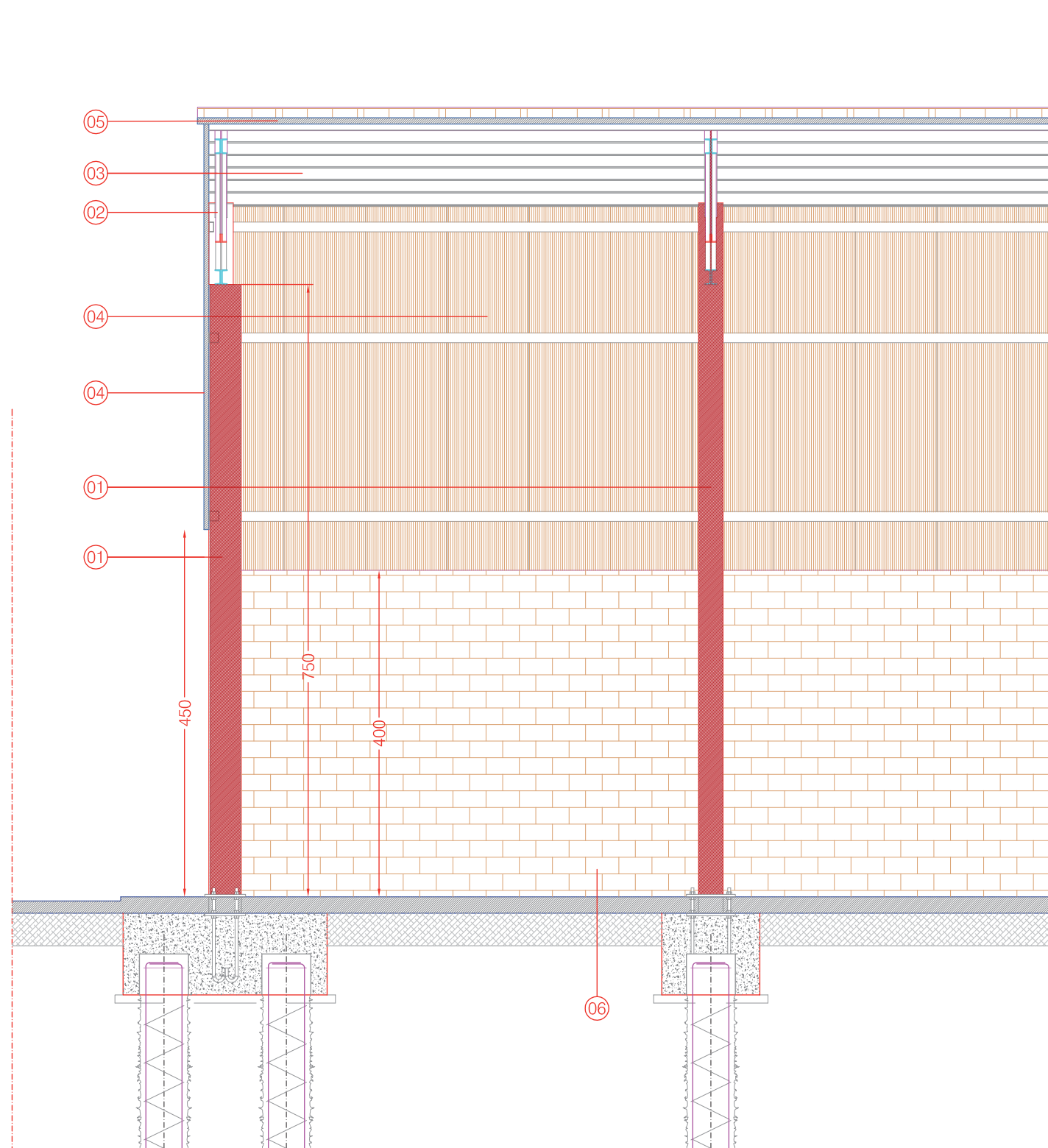
PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

C 14
a1



2514



COUPE - SECTION A - A 1 : 50

- ① colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- ② travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- ③ arcarecci in profili ad "omega " in acciaio
arcarecci in profili ad "omega " in acciaio
- ④ pannello sandwich di tamponamento
pannello sandwich di tamponamento
- ⑤ pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- ⑥ mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre

DRAWING
DESSIN **08b**

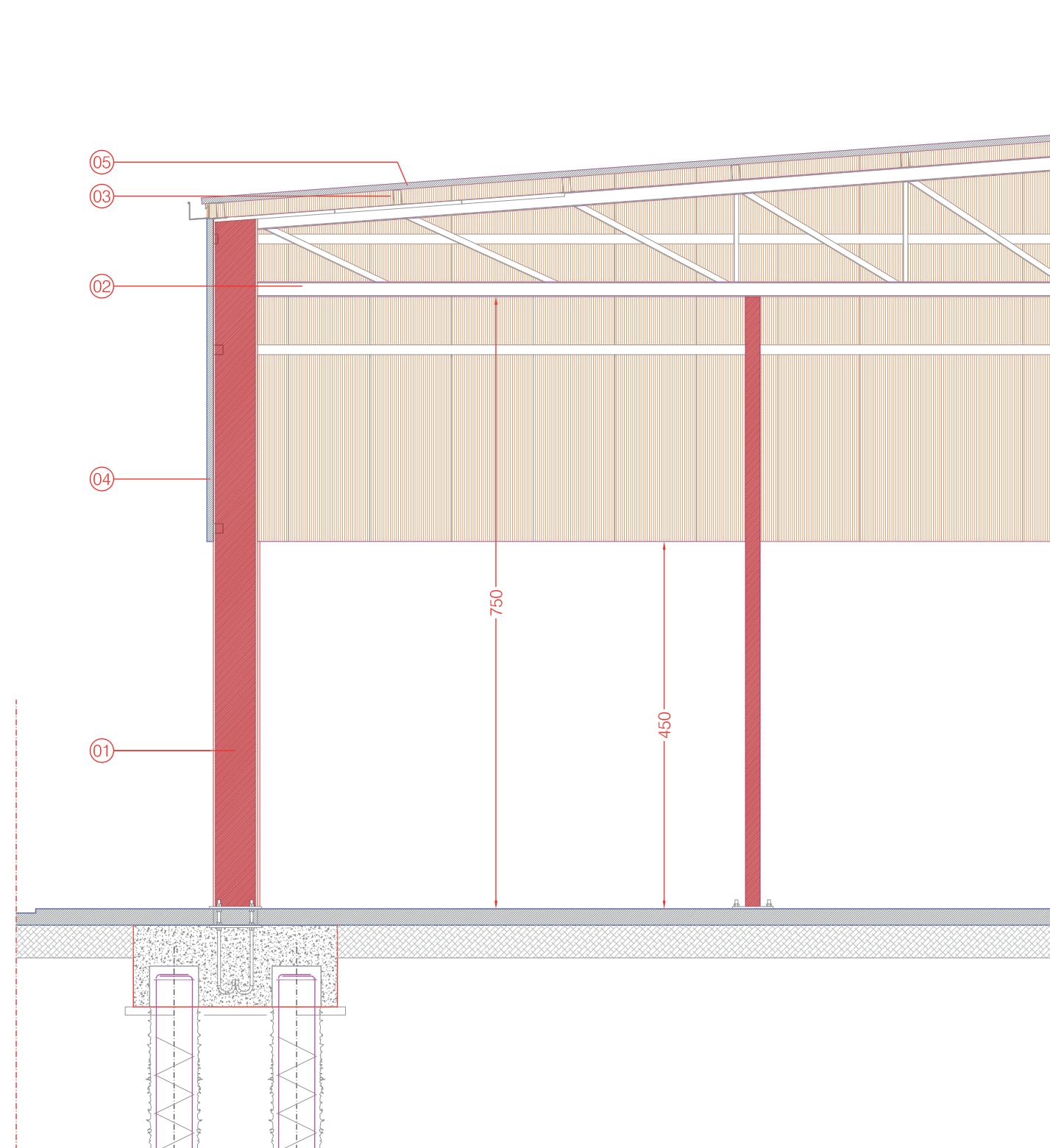
PROSPECTS AND CROSS SECTIONS
PSOSPECTUS ET SECTIONS

CDA

C 14
a1



2513



COUPE - SECTION B - B 1 : 50

- ① colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- ② travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- ③ arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio
- ④ pannello sandwich di tamponamento
pannello sandwich di tamponamento
- ⑤ pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura

DRAWING
DESSIN **08a**

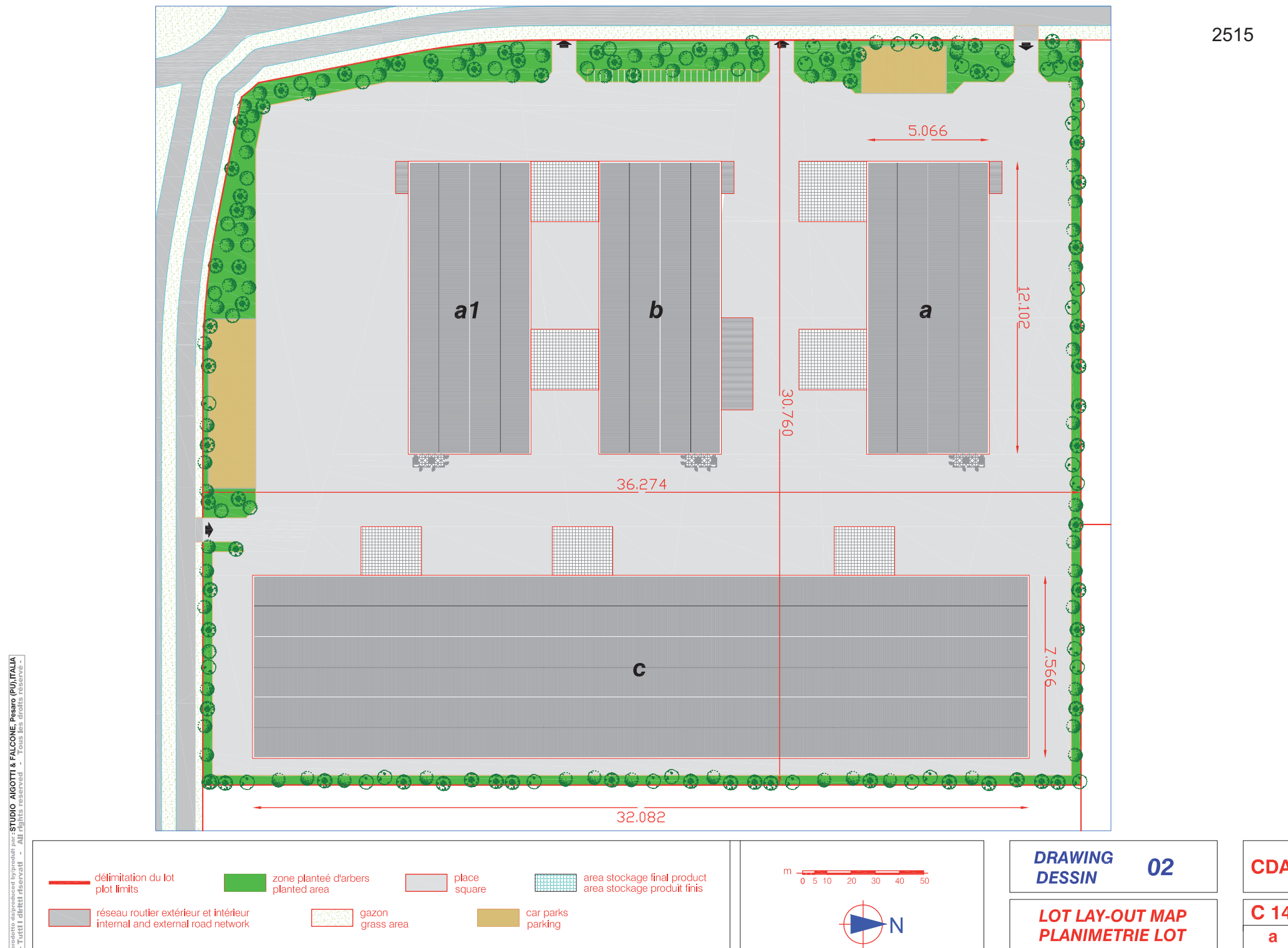
CDA

PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

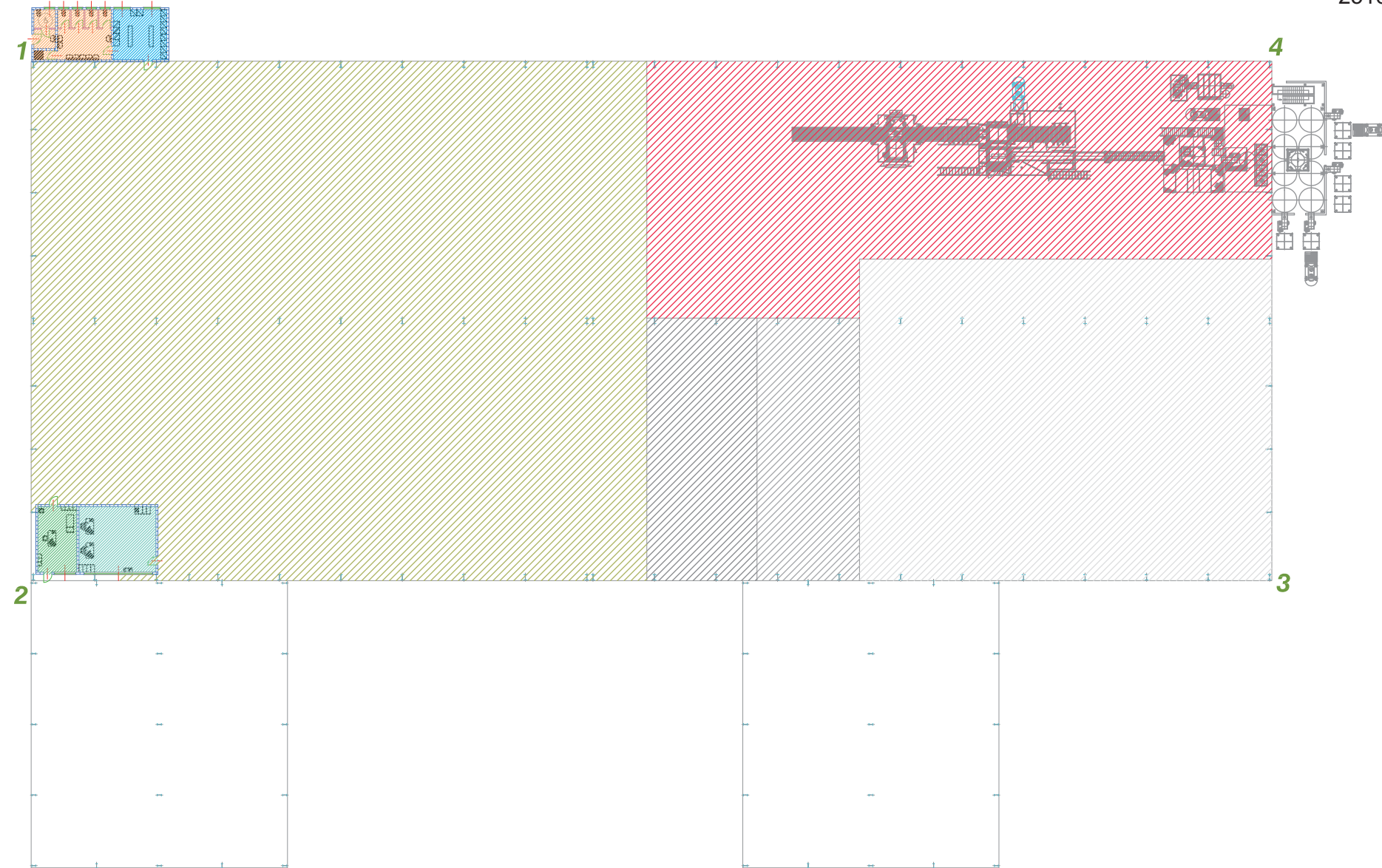
C 14
a1



2515

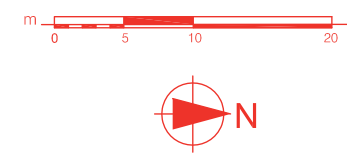


2516



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 working area zone de travail	 first aid premiere secours	 finished product storehouse stokage produit fini
 locker rooms vestiaires	 office bureau	 raw materials stokage stokage matieres premiere
 wc toilettes	 additives stokage stokage additifs	 packing stokage stokage emballages



DRAWING 03
DESSIN

GROUND FLOOR FUNCTIONAL AND TECHNICAL MAP
PLAN REZ-DE-CHAUSEE AVEC DETERMINATION DES FONCTION

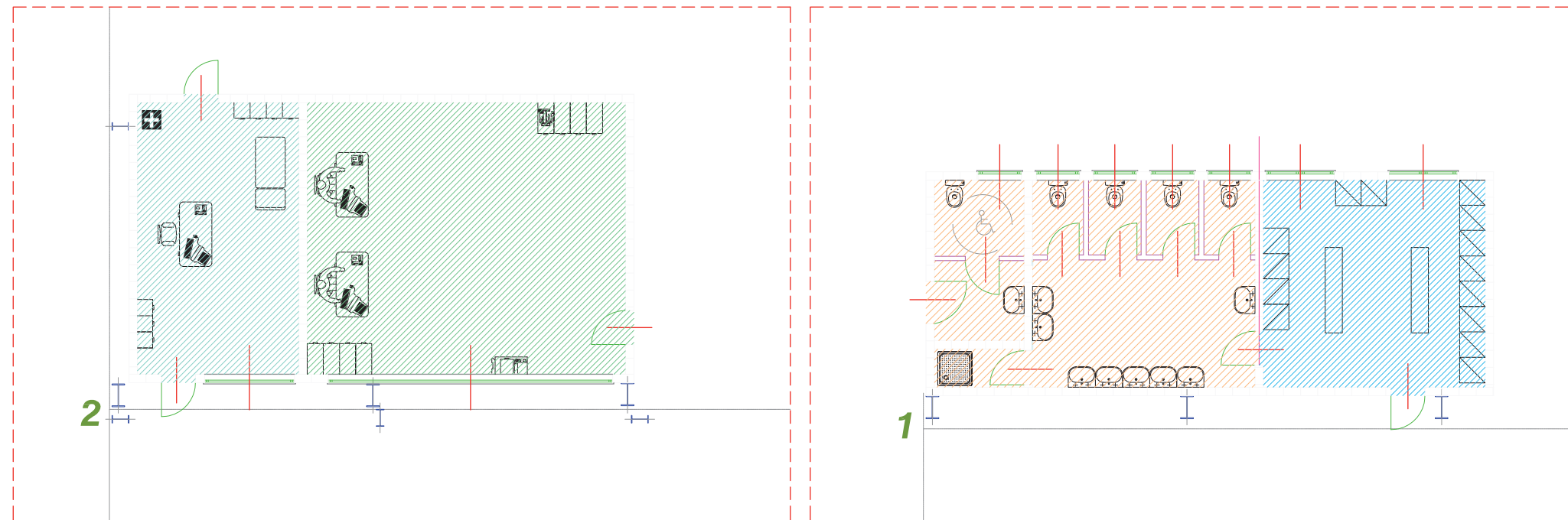
CDA

C 14
c



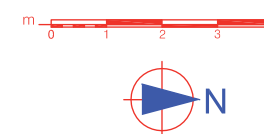


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- | | |
|--|--|
|  locker rooms
vestiaires |  first aid
premiere secours |
|  wc
toilettes |  office
bureau |



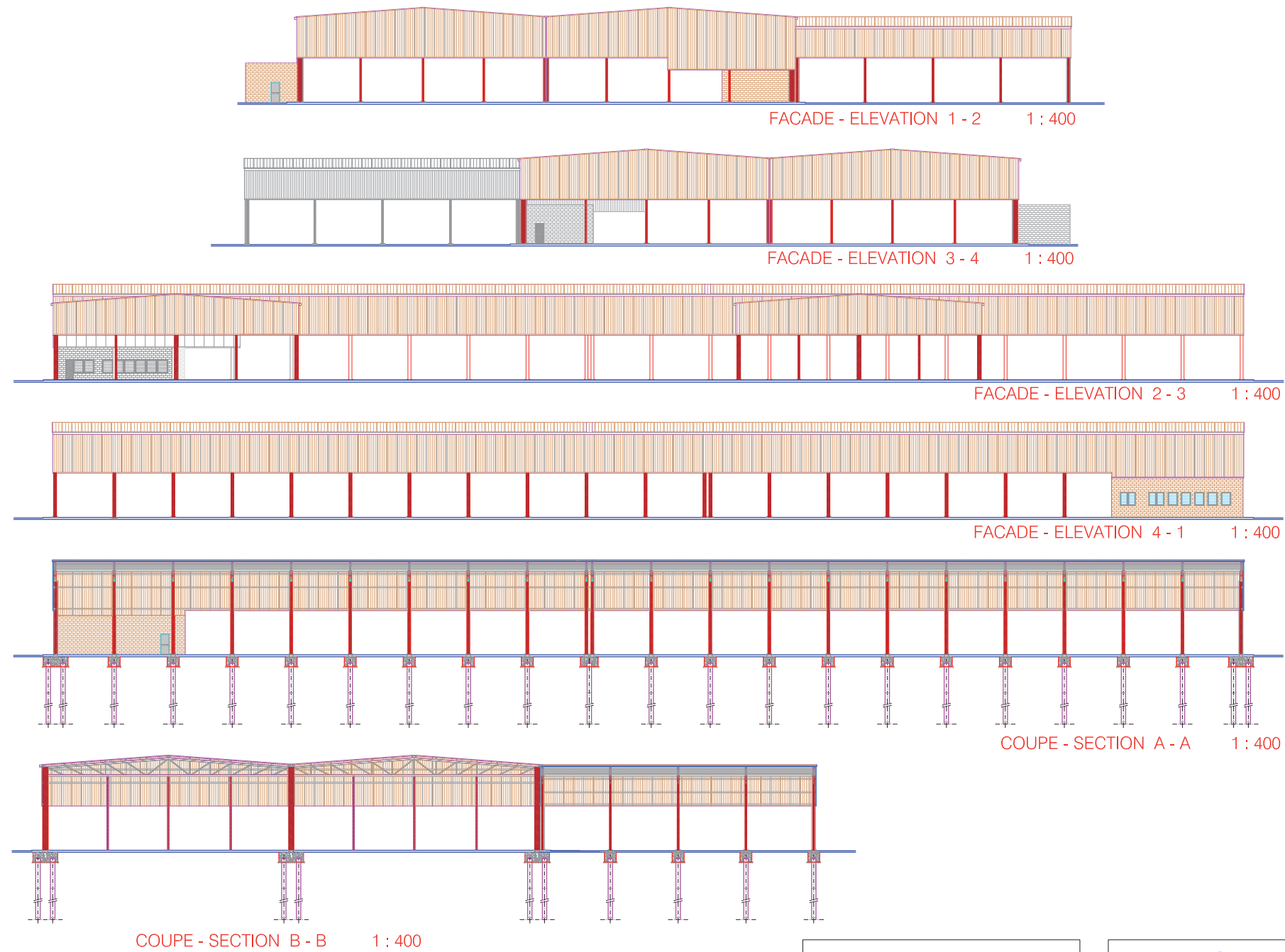
**DRAWING
DESSIN 04**

GENERAL SERVICES MAP
WITH AREA FUNCTION
PLAN REZ-DE-CHAUSEE
AVEC DETERMINATION DE FUNCTION

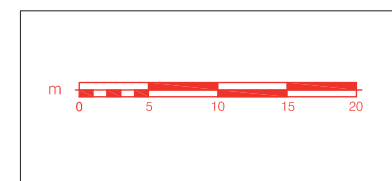
CDA

**C 14
a**





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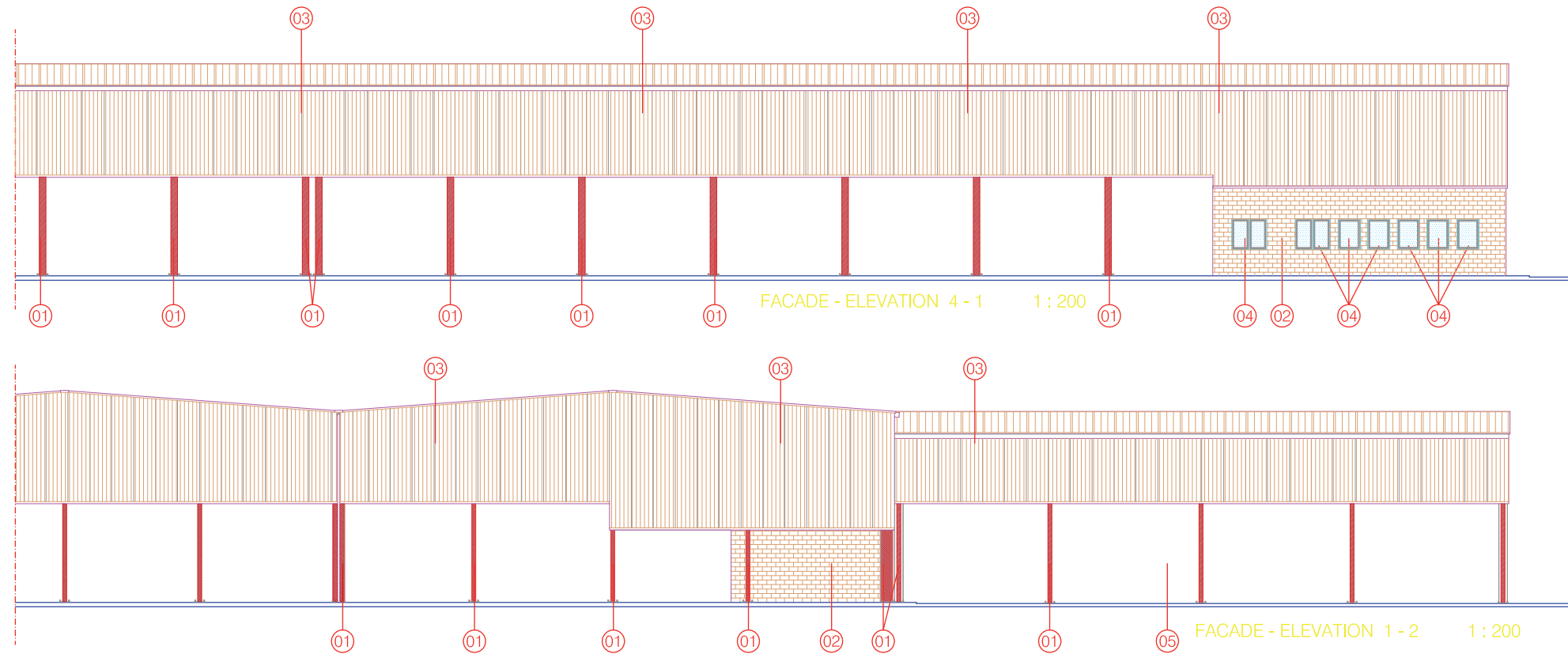
DRAWING
DESSIN **06**

PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

C 14
a





- ① colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- ② mur de briques en béton vibrant
couleur ocre
vibrate concrete masonry
colour ochre
- ③ panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation

- ④ ribbon aluminium window in with open joint
vasistas and control to man height
double glazing
fenetre-bande en aluminium avec le joint ouvert
vasistas avec le commande de taille a l'homme
double verre
- ⑤ shed
hangar

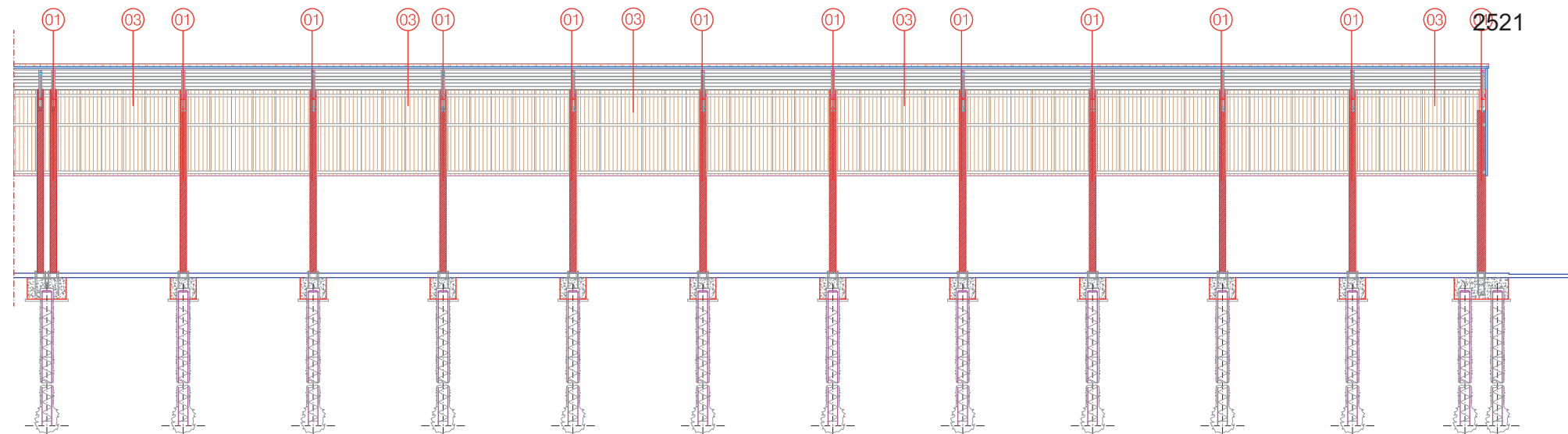
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DESSIN **07a**

PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

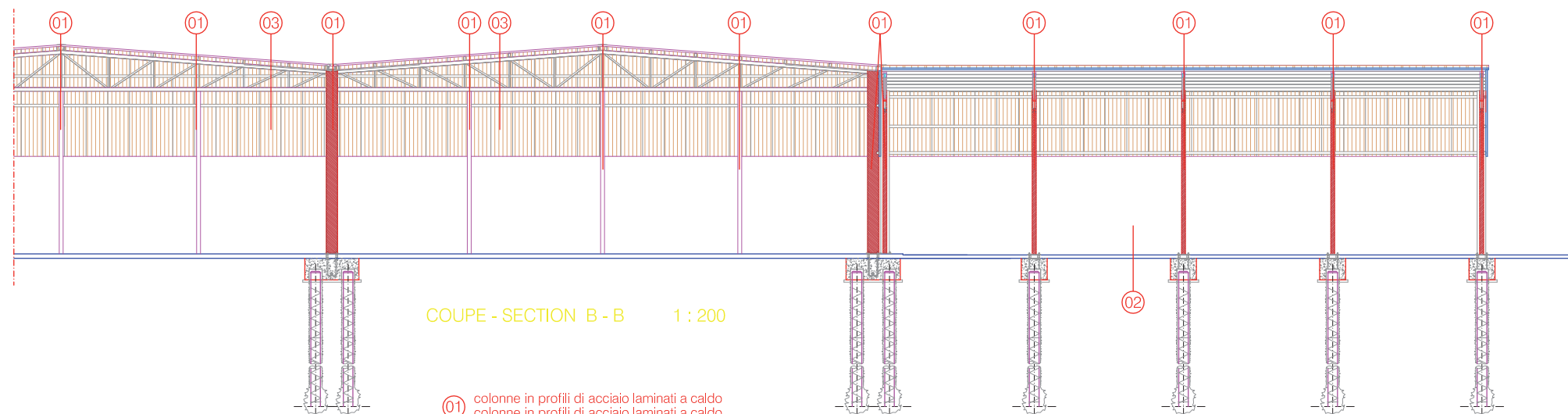
CDA

C 14
a





COUPE - SECTION A - A 1 : 200



COUPE - SECTION B - B 1 : 200

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 shed
hangar
- 03 panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation

**DRAWING
DESSIN 07b**

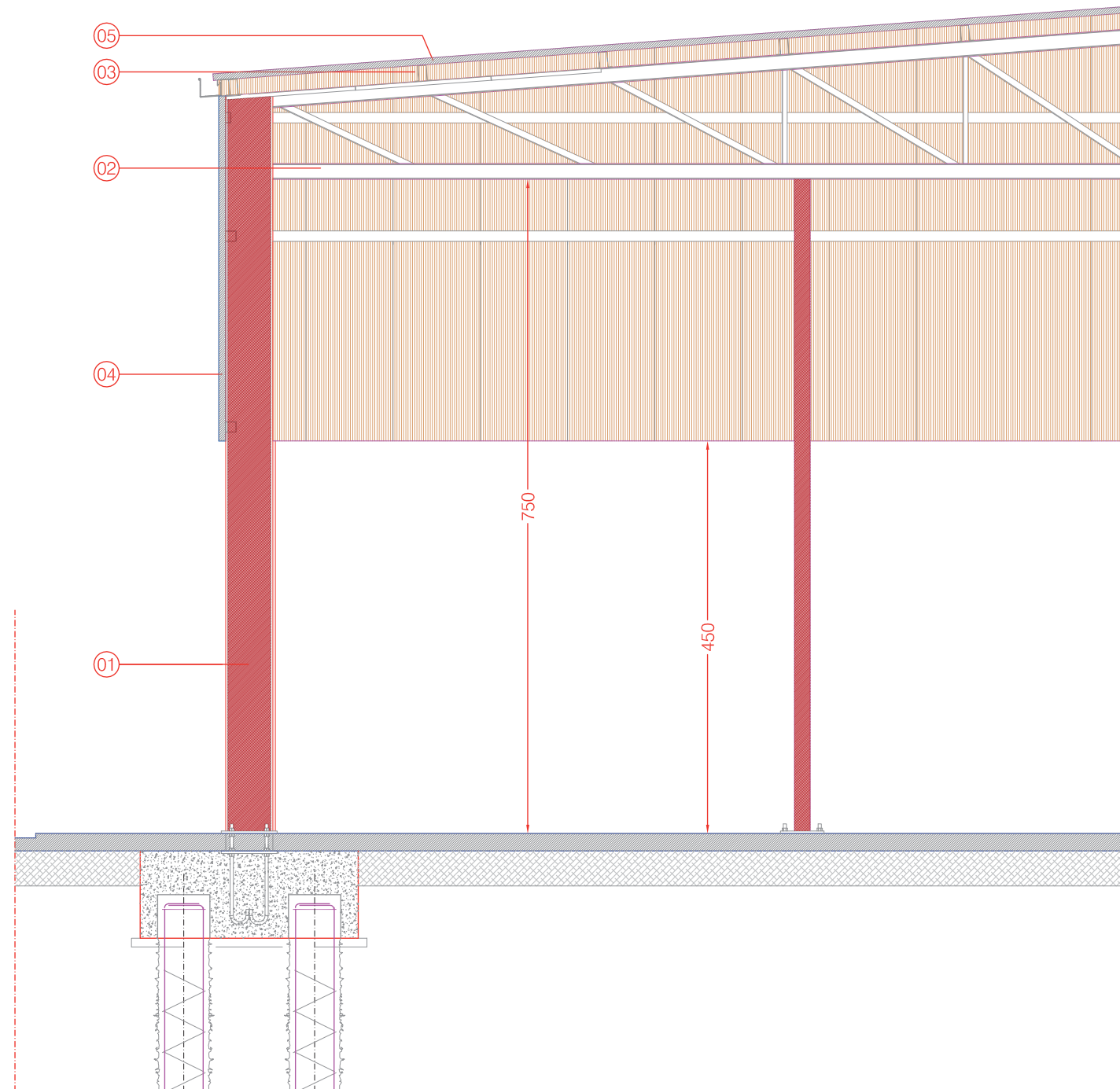
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**PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS**

**C 14
a**



2522



COUPE - SECTION B - B 1 : 50

- ① colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- ② travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- ③ arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio
- ④ pannello sandwich di tamponamento
pannello sandwich di tamponamento
- ⑤ pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura

DRAWING
DESSIN **08a**

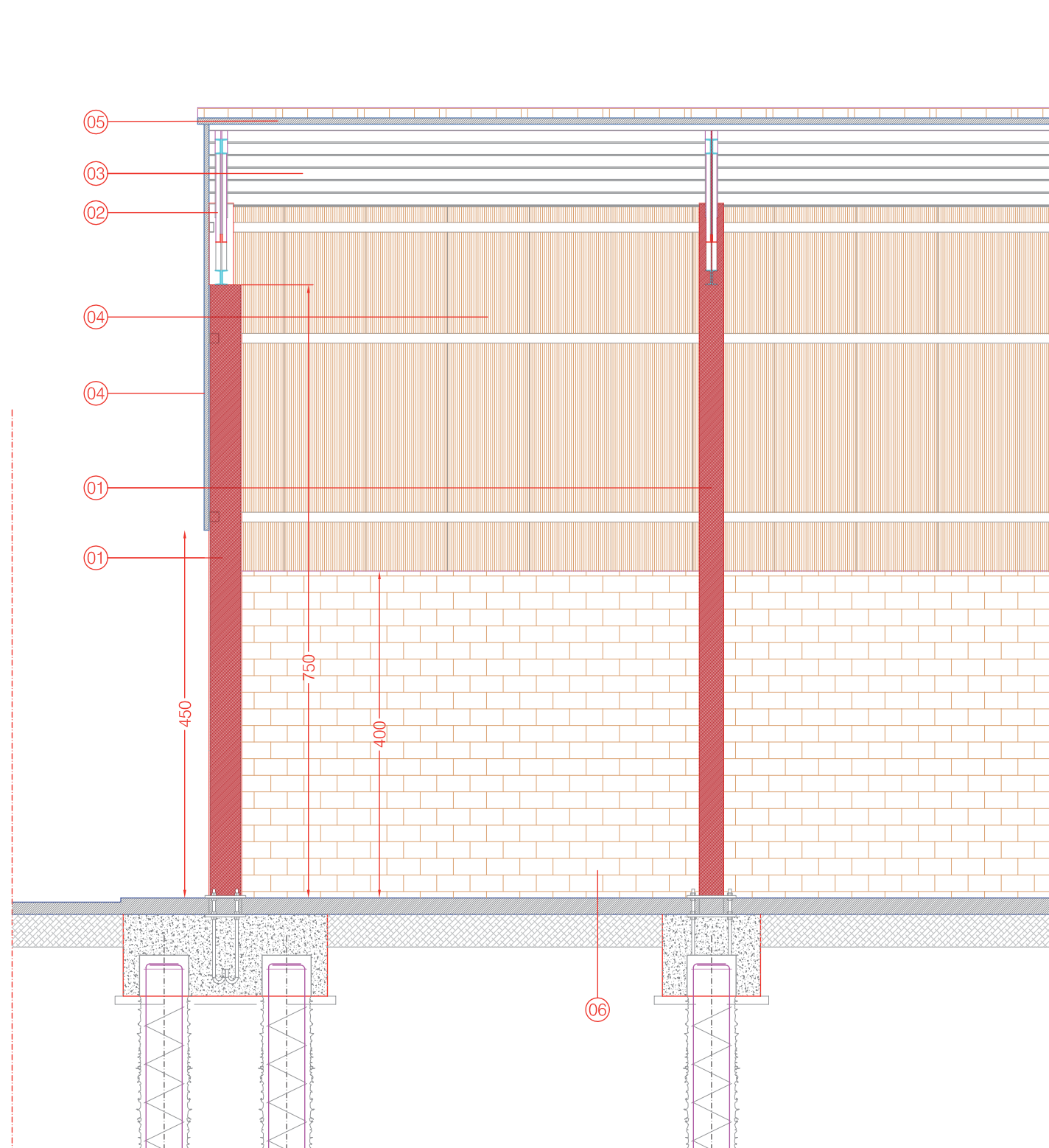
PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

C 14
a



2523



COUPE - SECTION A - A 1 : 50

- ① colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- ② travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- ③ arcarecci in profili ad "omega " in acciaio
arcarecci in profili ad "omega " in acciaio
- ④ pannello sandwich di tamponamento
pannello sandwich di tamponamento
- ⑤ pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- ⑥ mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre

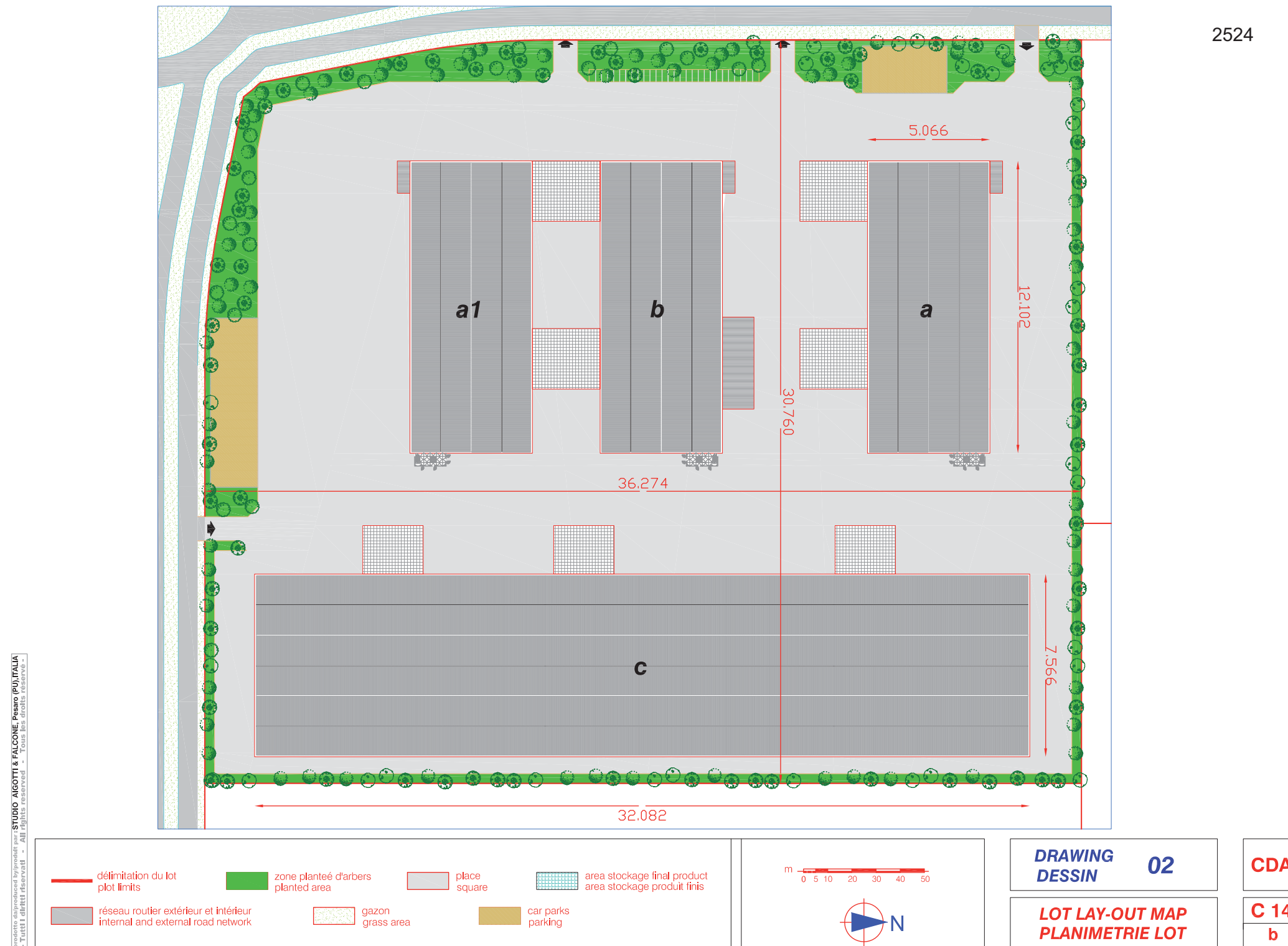
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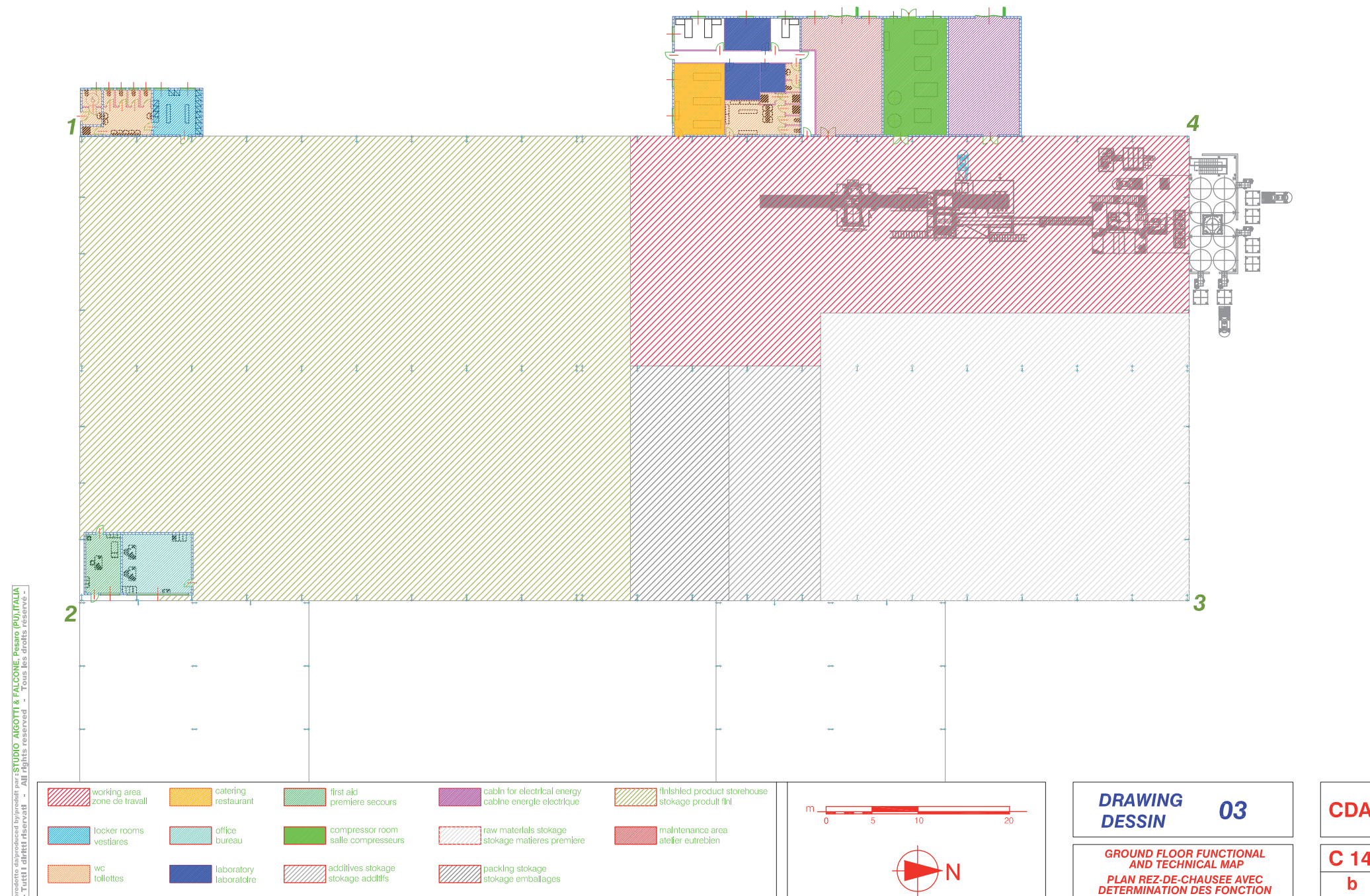
PROSPECTS AND CROSS SECTIONS
PSOSPECTUS ET SECTIONS

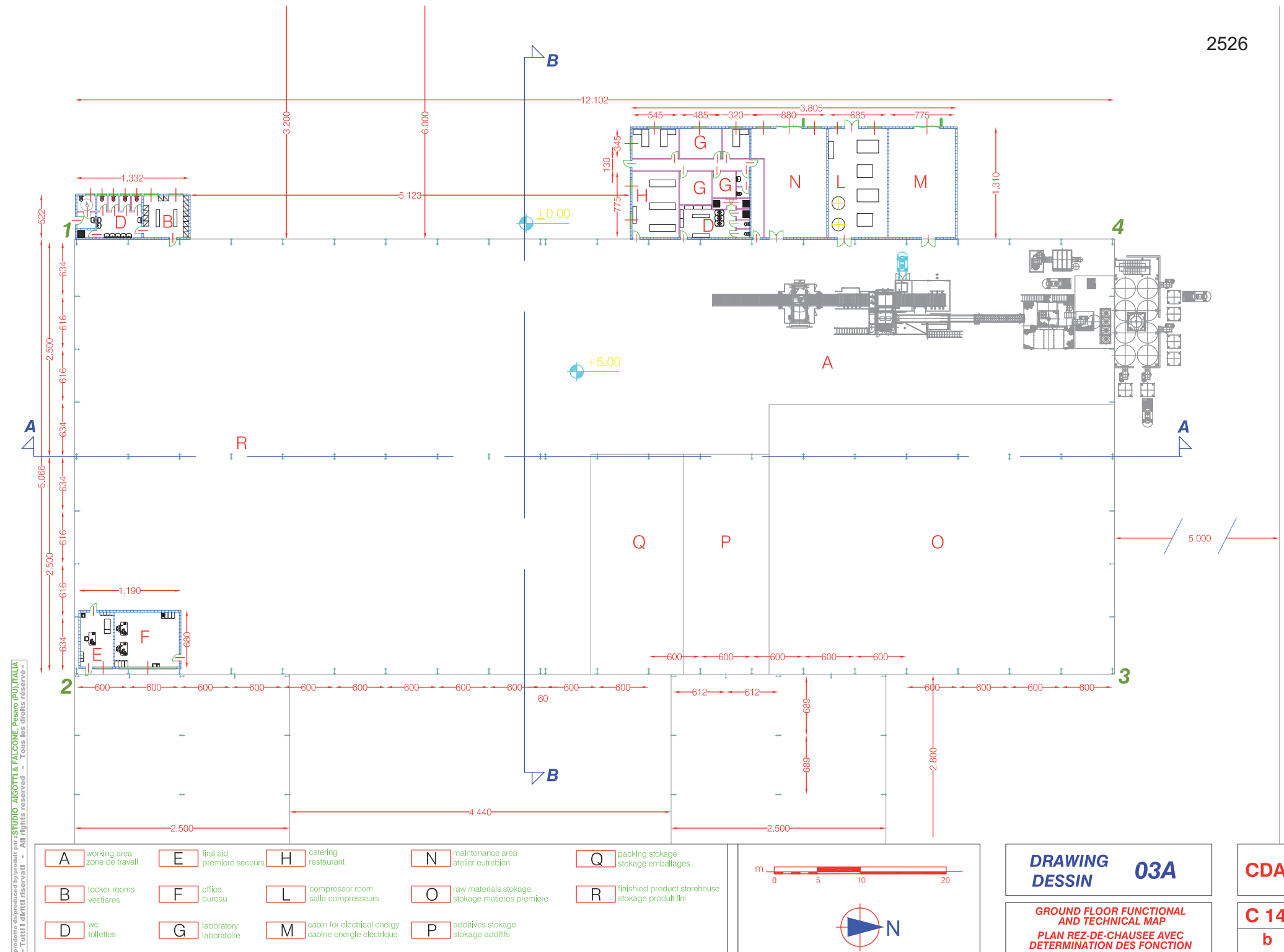
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C 14
a

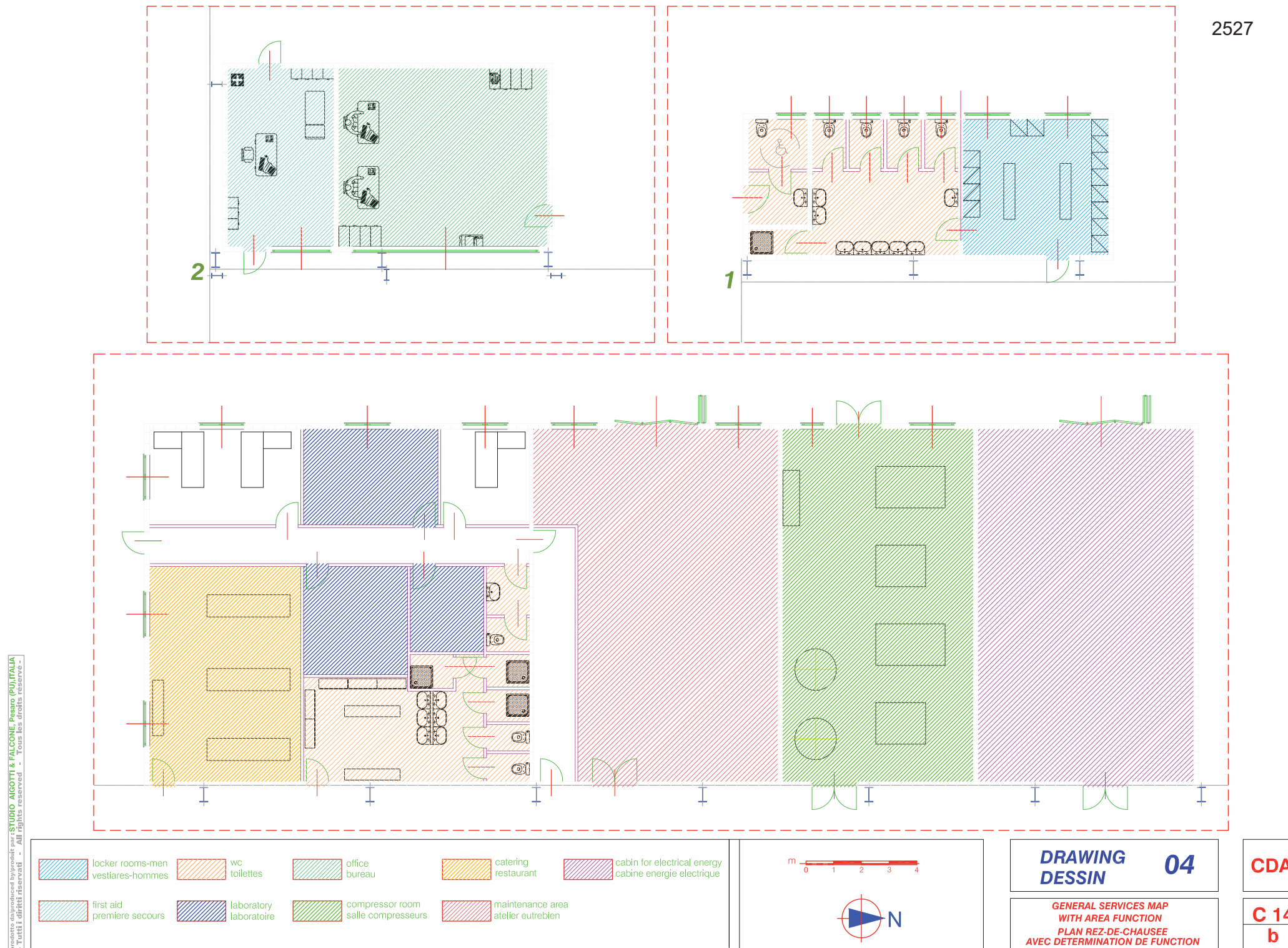




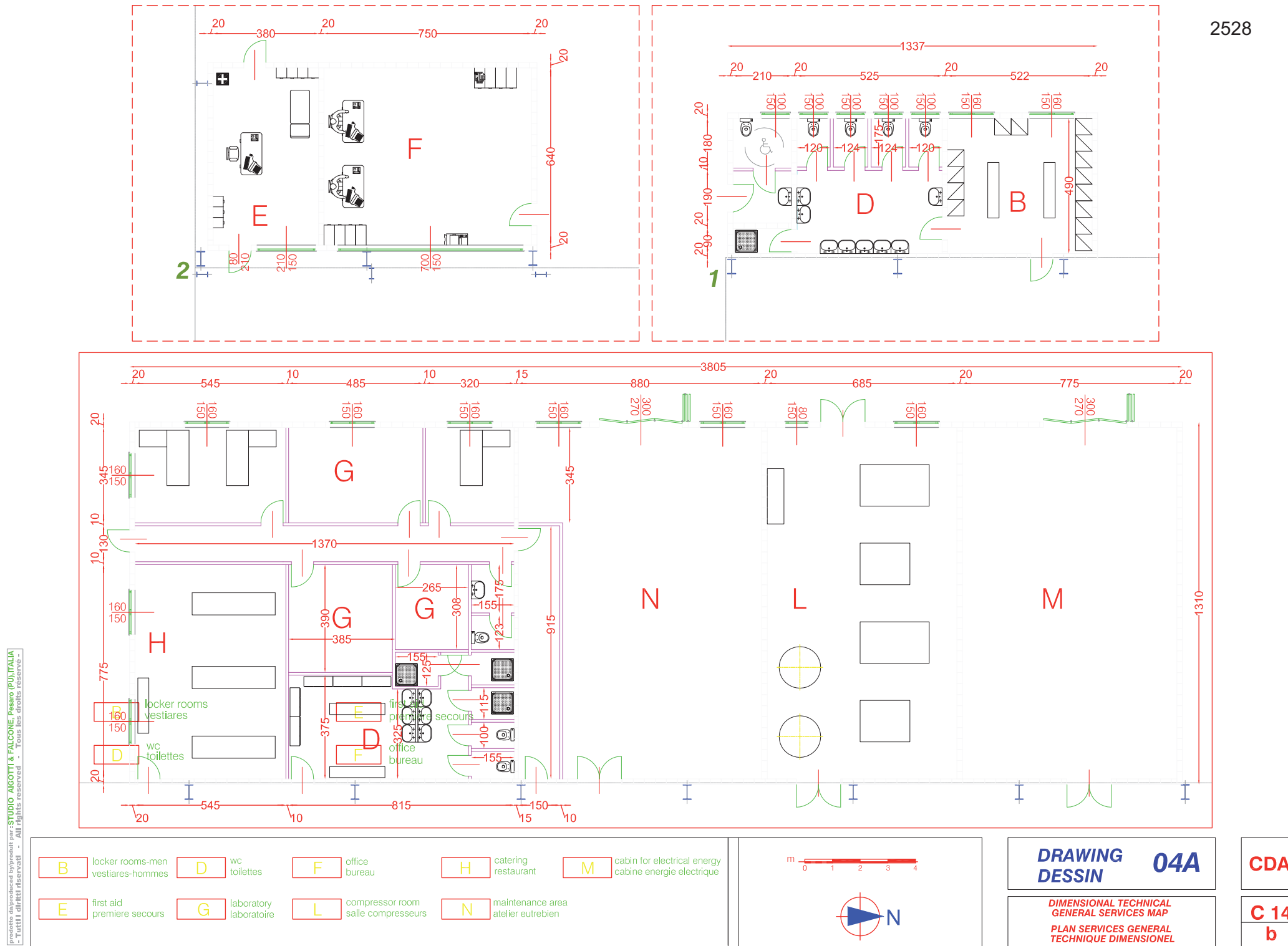


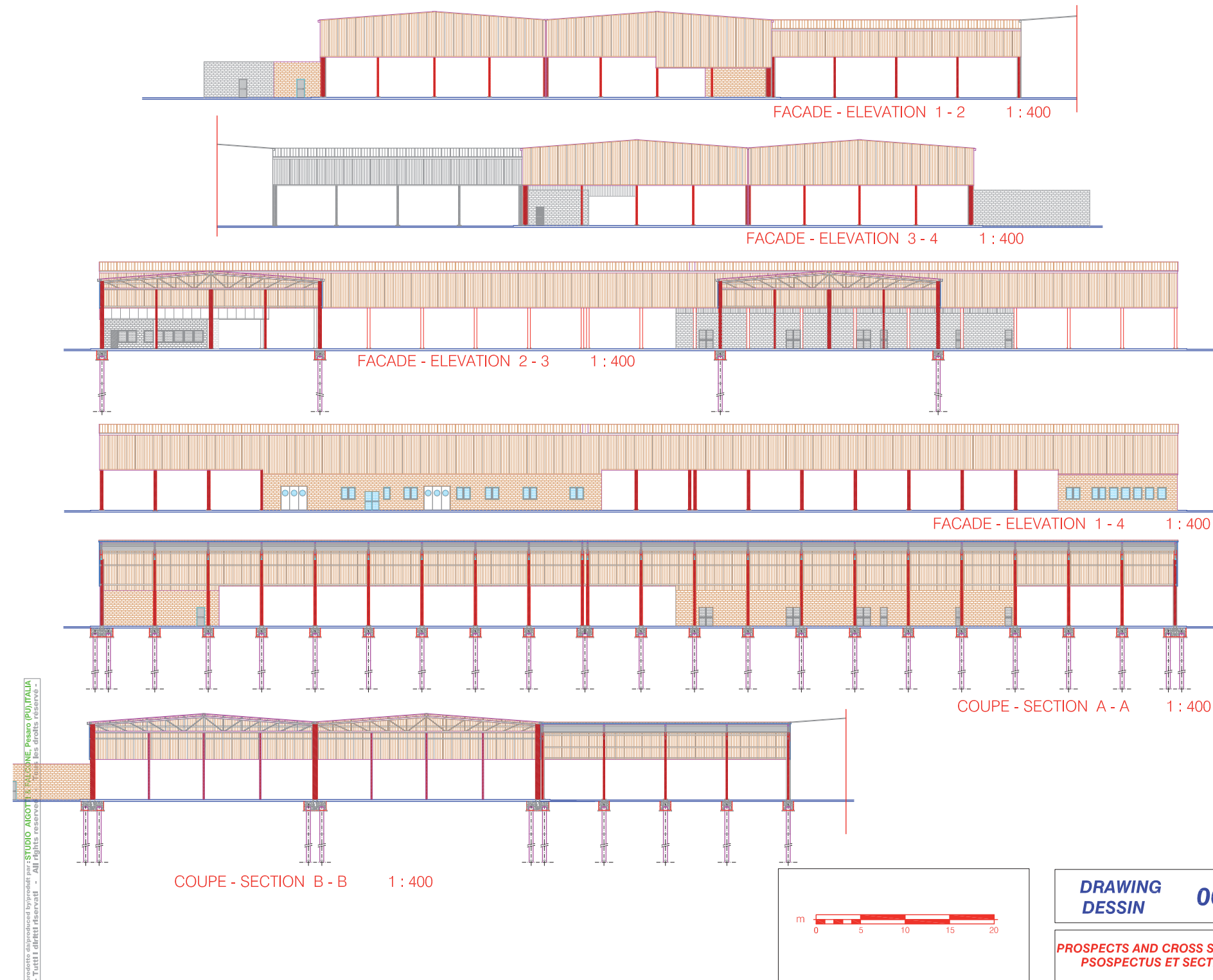


2527



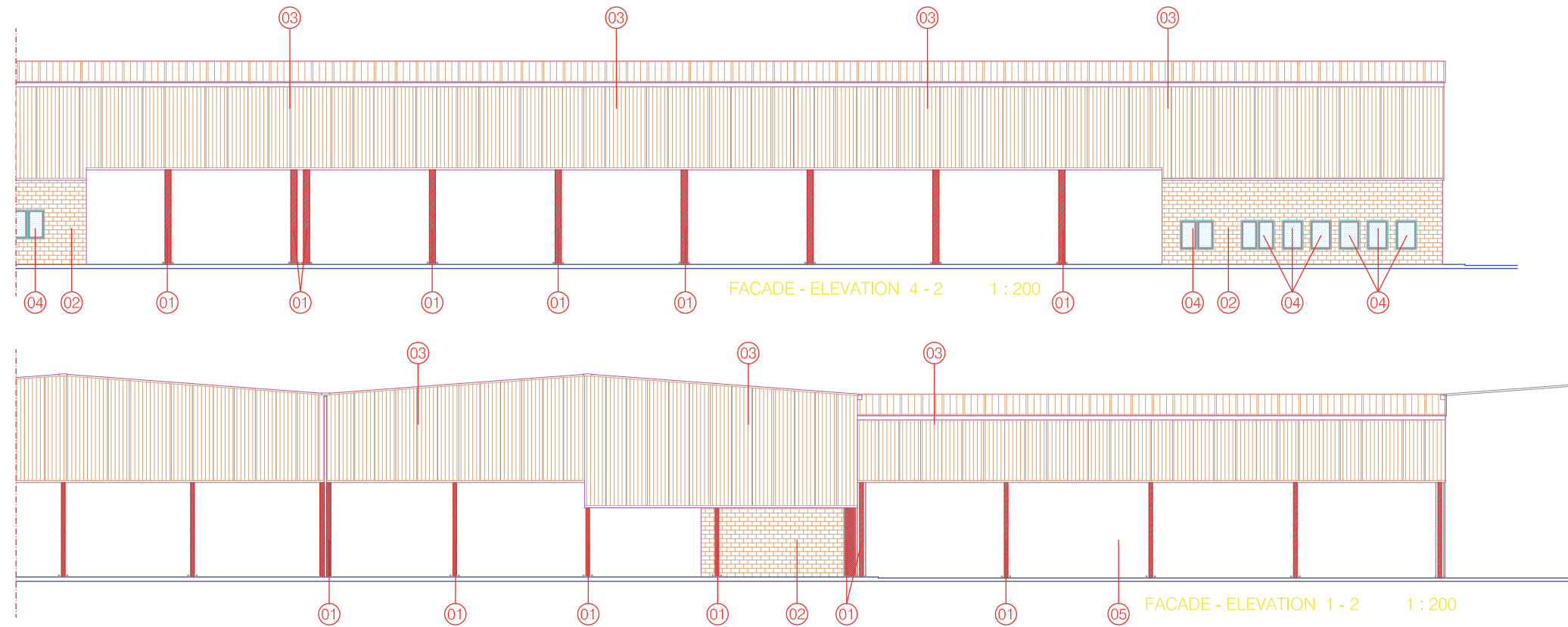
2528





with non-conductor isolation
 04 shed
 hangar

2530

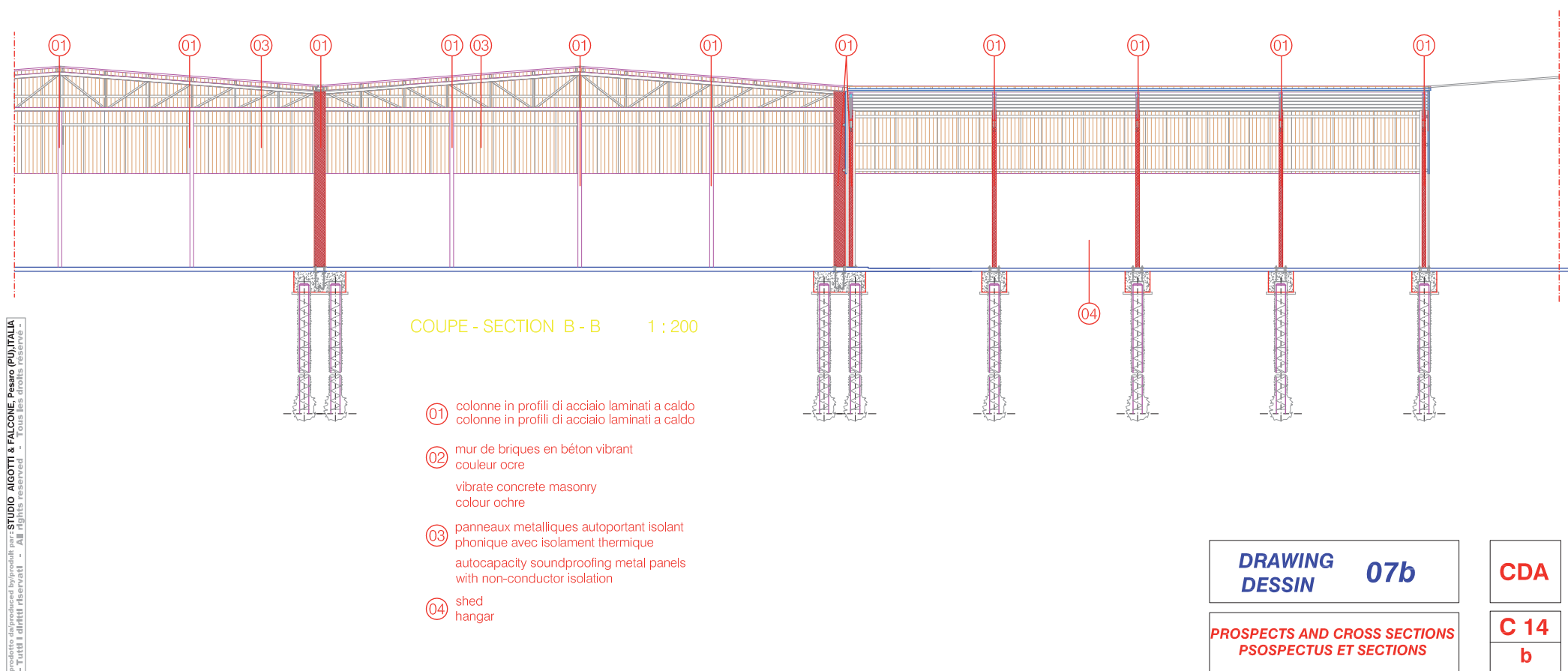
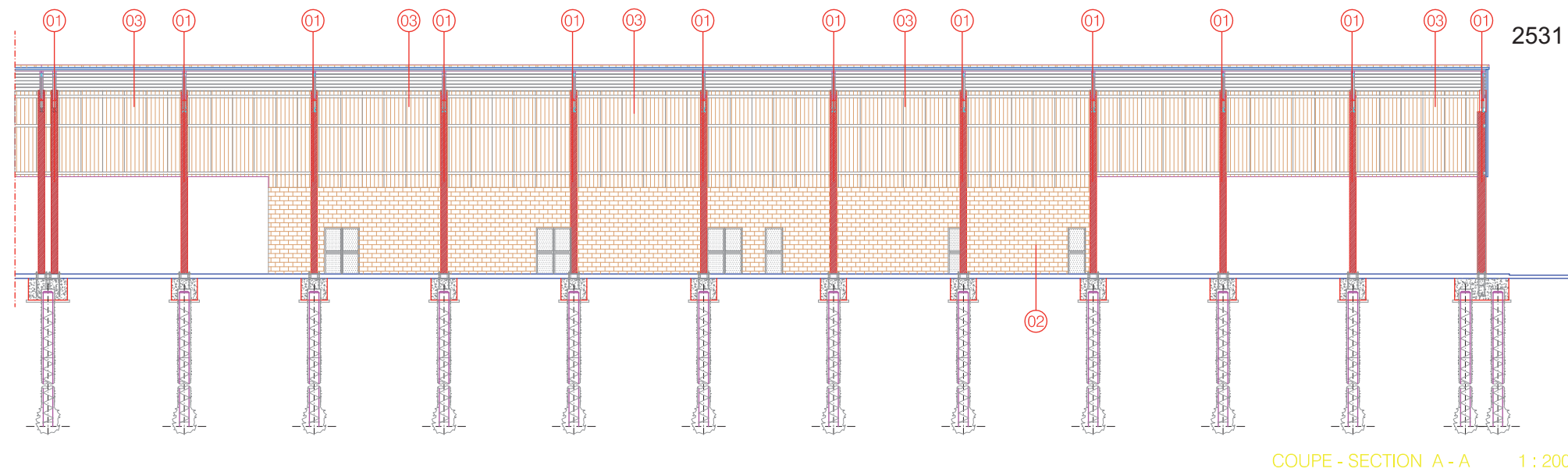


- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 mur de briques en béton vibrant
couleur ocre
vibrate concrete masonry
colour ochre
- 03 panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation
- 04 ribbon aluminium window in with open joint
vasistas and control to man height
double glazing
fenetre-bande en aluminium avec le joint ouvert
vasistas avec le commande de taille a l'homme
double verre
- 05 shed
hangar

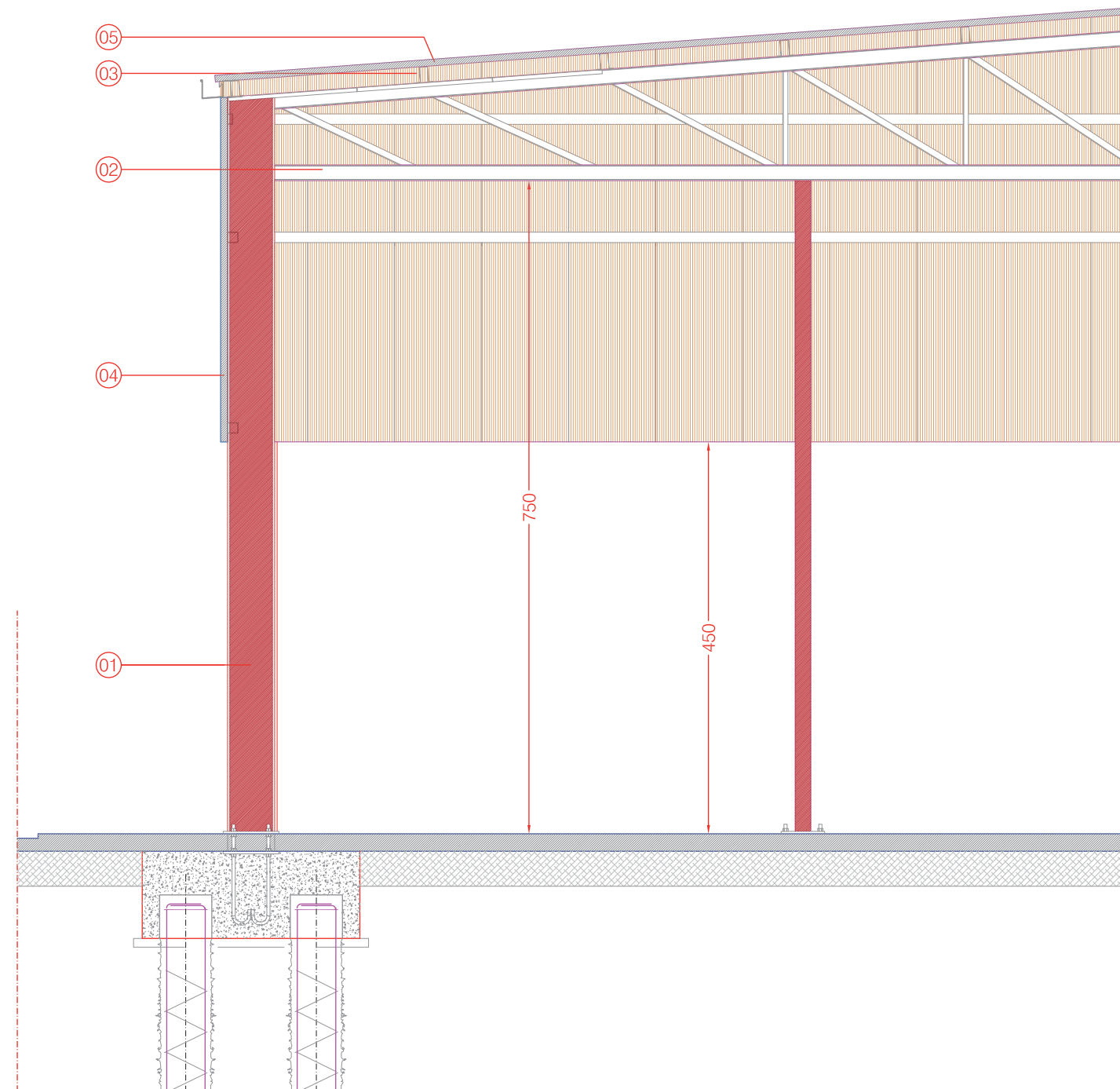
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DRAWING DESSIN	07a	CDA
PROSPECTS AND CROSS SECTIONS PSPECTUS ET SECTIONS	C 14 b	





2532



COUPE - SECTION B - B 1 : 50

- ① colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- ② travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- ③ arcarecci in profili ad "omega" in acciaio
arcarecci in profili ad "omega" in acciaio
- ④ pannello sandwich di tamponamento
pannello sandwich di tamponamento
- ⑤ pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura

DRAWING
DESSIN **08a**

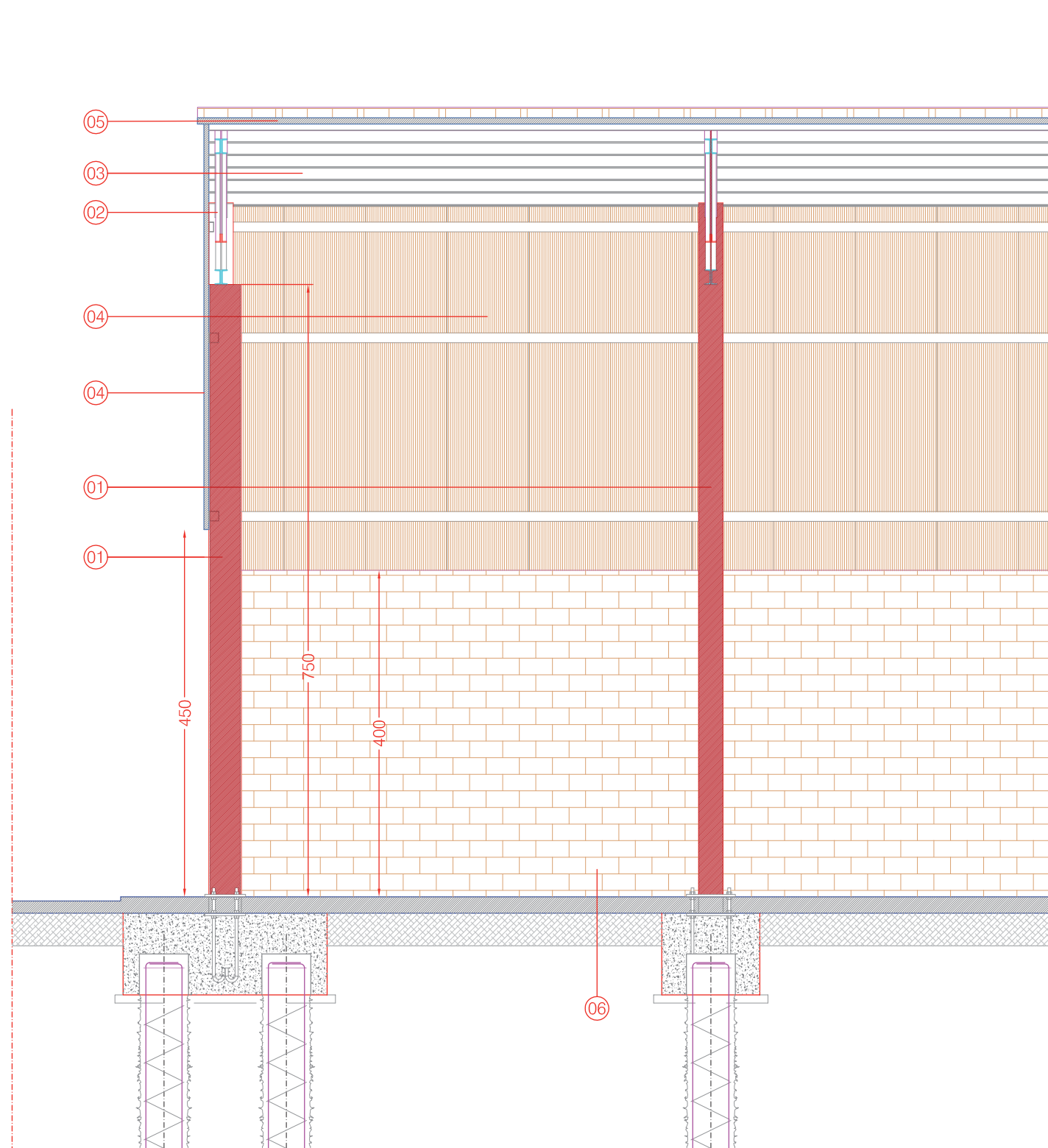
PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

C 14
b



2533



COUPE - SECTION A - A 1 : 50

- ① colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- ② travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- ③ arcarecci in profili ad "omega " in acciaio
arcarecci in profili ad "omega " in acciaio
- ④ pannello sandwich di tamponamento
pannello sandwich di tamponamento
- ⑤ pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura
- ⑥ mur de briques en béton vibrant couleur ocre
vibrate concrete masonry colour ochre

DRAWING
DESSIN **08b**

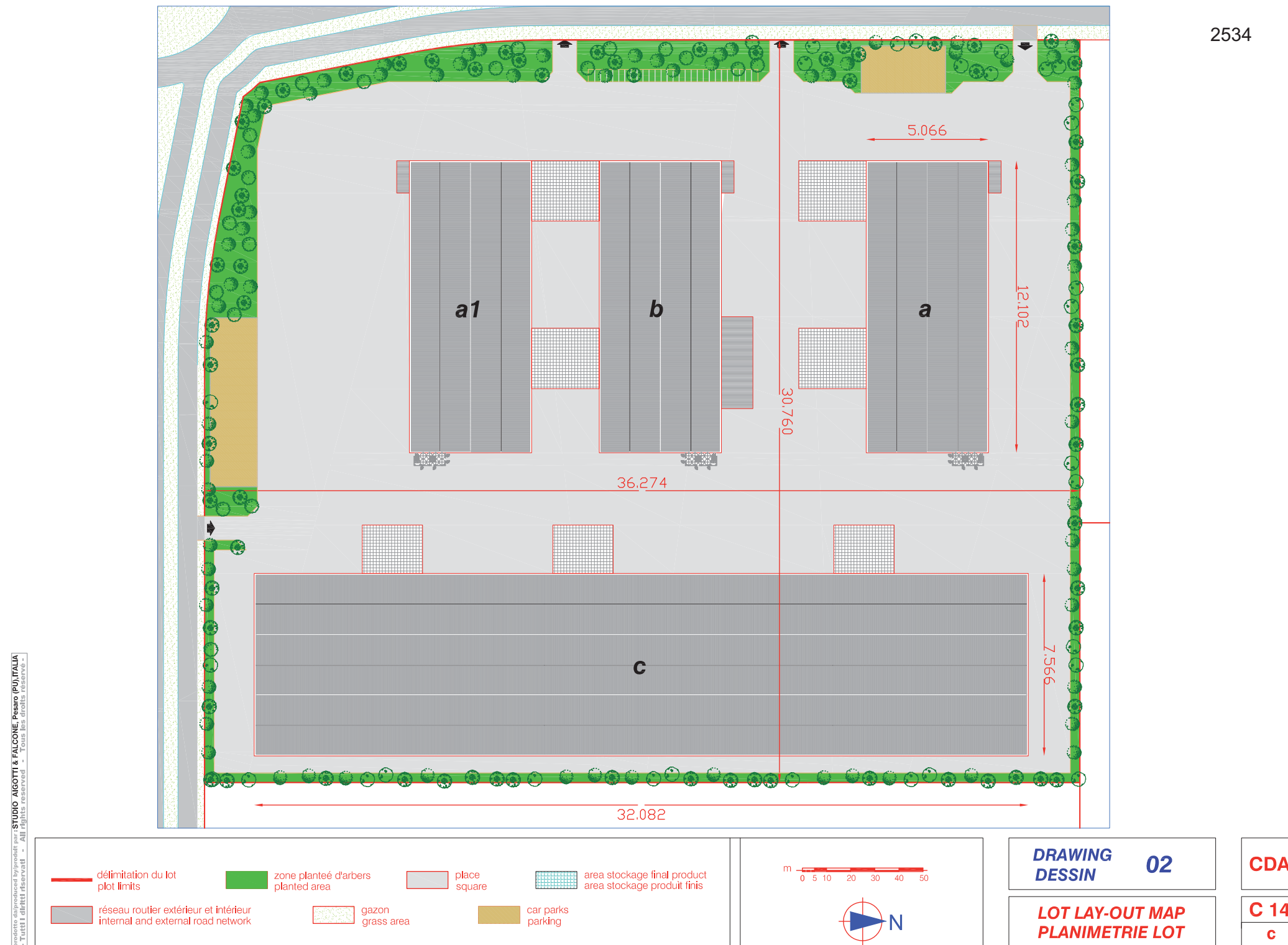
PROSPECTS AND CROSS SECTIONS
PSOSPECTUS ET SECTIONS

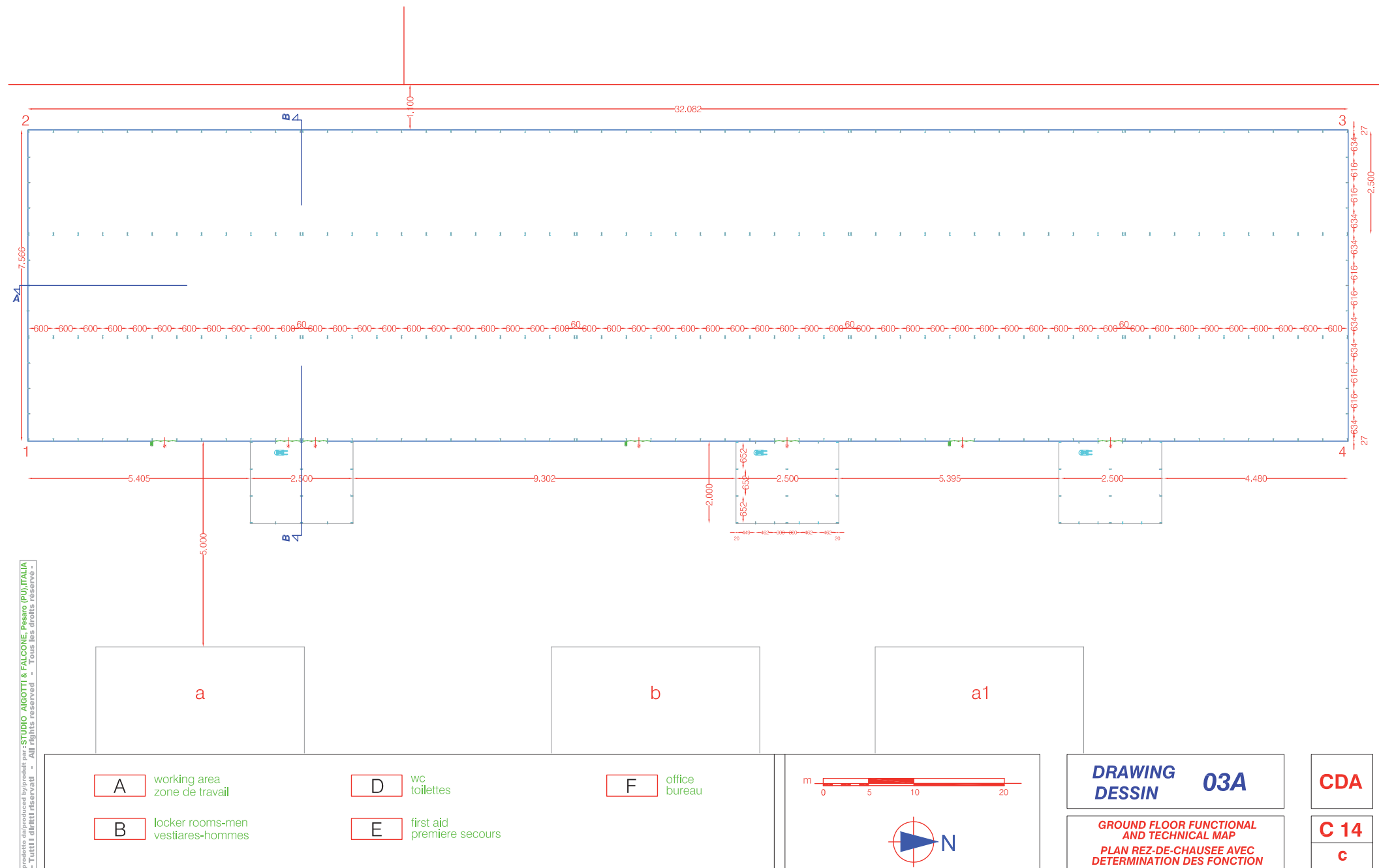
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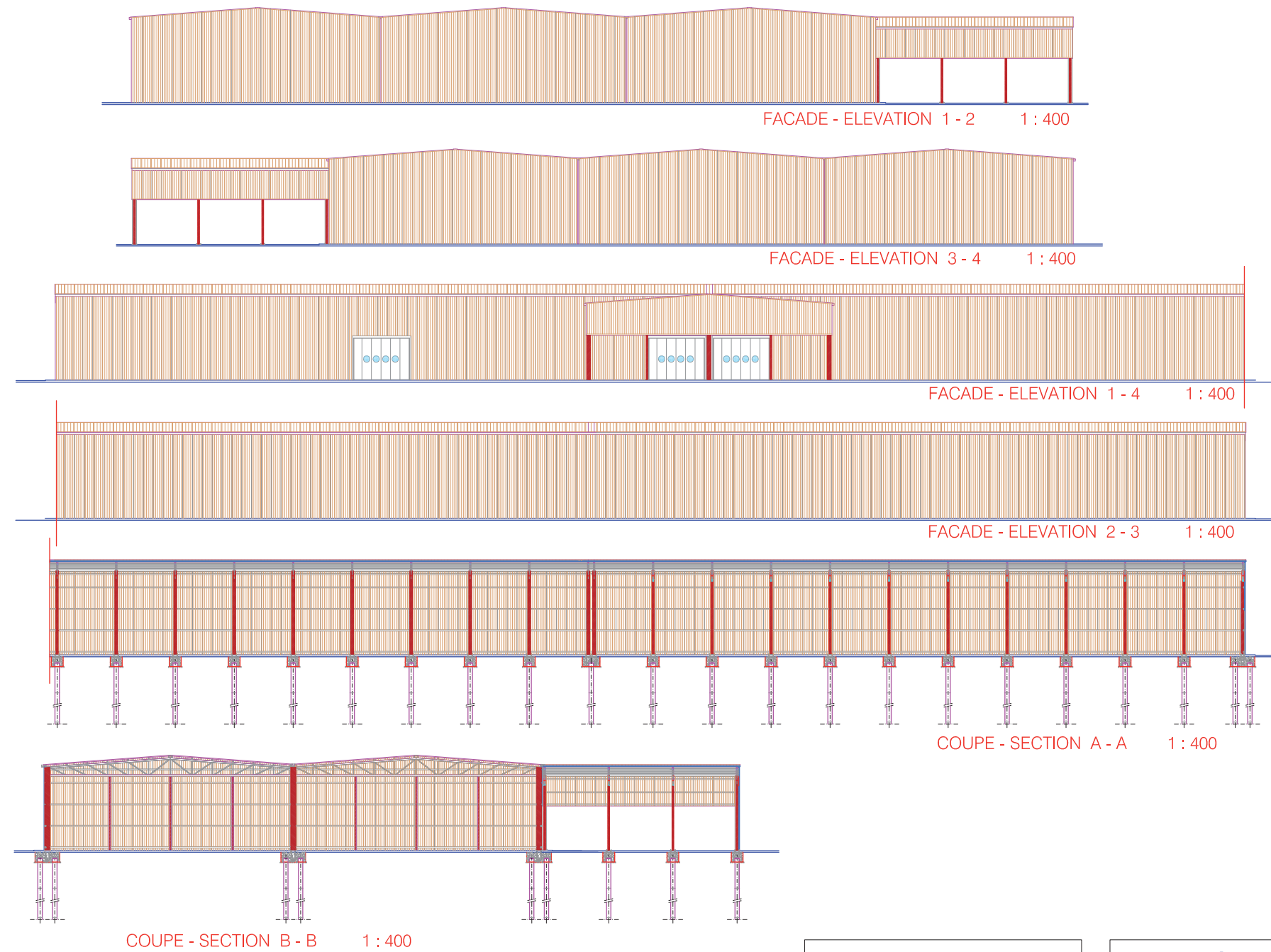
C 14
b



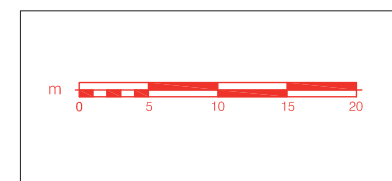
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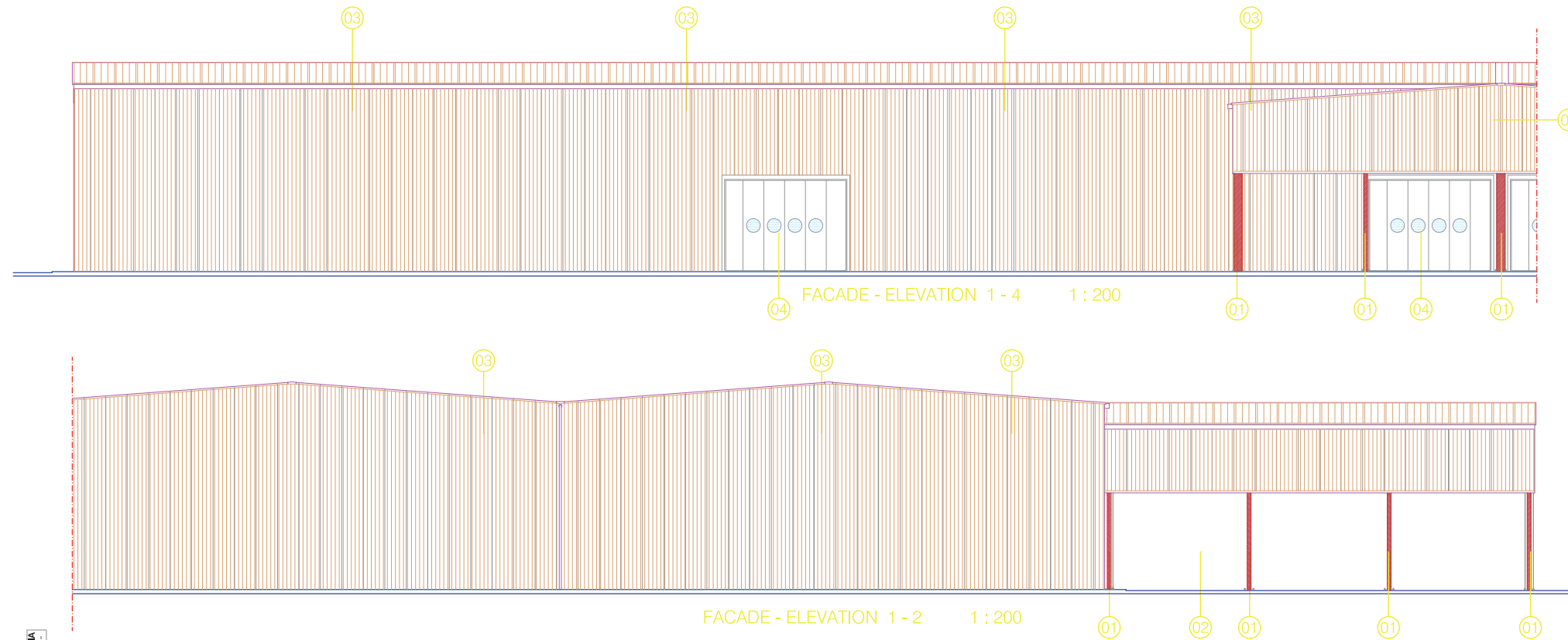


DRAWING
DESSIN **06**

PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

C 14
c



- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 shed
hangar
- 03 panneaux métalliques autoportant isolant
phonique avec isolament thermique
autocapacity soundproofing metal panels
with non-conductor isolation

DRAWING
DESSIN **07a**

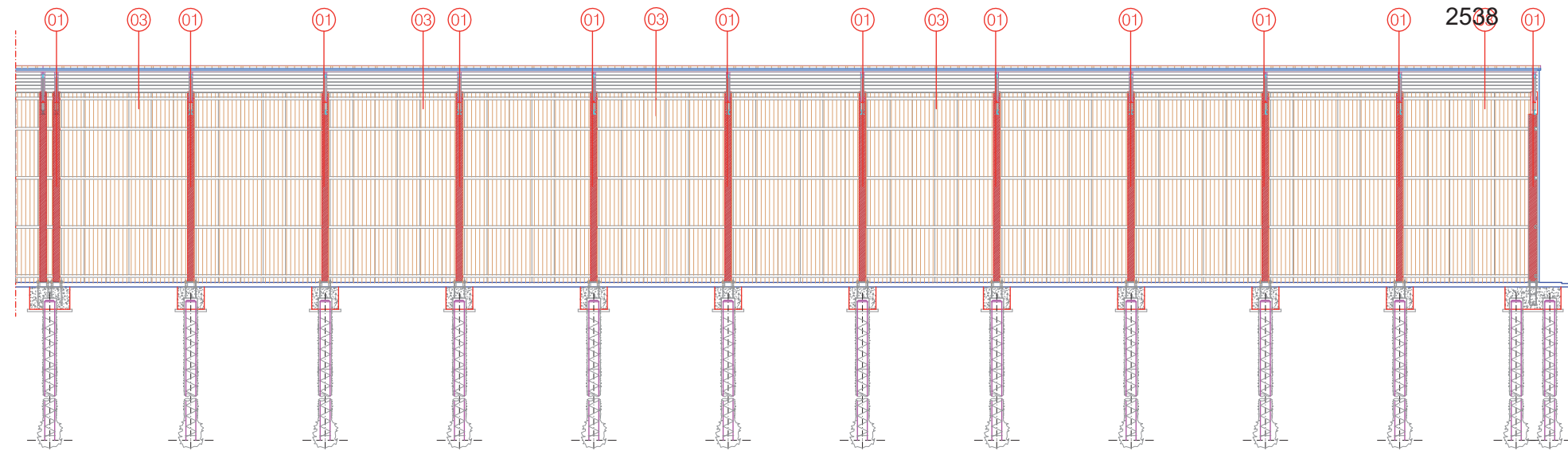
PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

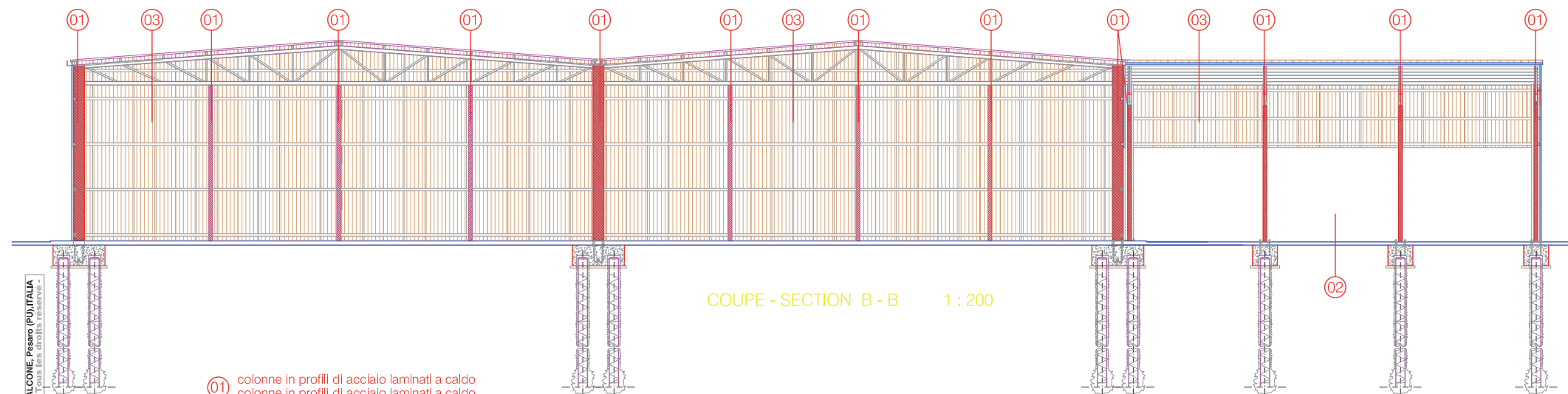
C 14

c





COUPE - SECTION A - A 1 : 200



COUPE - SECTION B - B 1 : 200

- 01 colonnes en profils d'acier laminé à chaud
colonnes in profile of hot-rolled steel
- 02 shed
hangar
- 03 panneaux métalliques autoportant isolant
phonique avec isolant thermique
autocapacity soundproofing metal panels
with non-conductor isolation

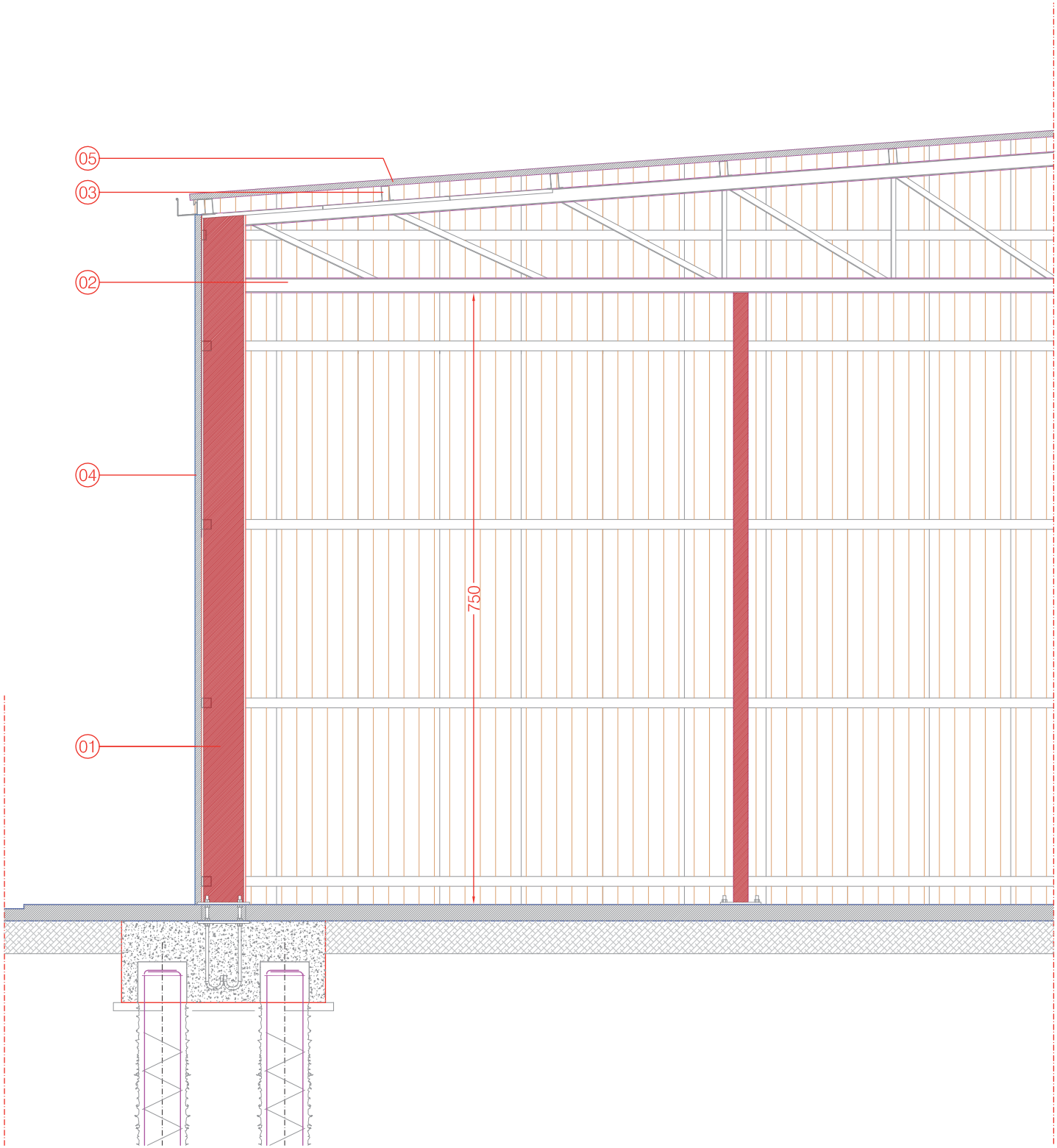
**DRAWING
DESSIN** 07b

**PROSPECTS AND CROSS SECTIONS
PSOSPECTUS ET SECTIONS**

CDA

**C 14
c**





COUPE - SECTION B - B 1 : 50

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega " in acciaio
arcarecci in profili ad "omega " in acciaio
- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura

DRAWING
DESSIN

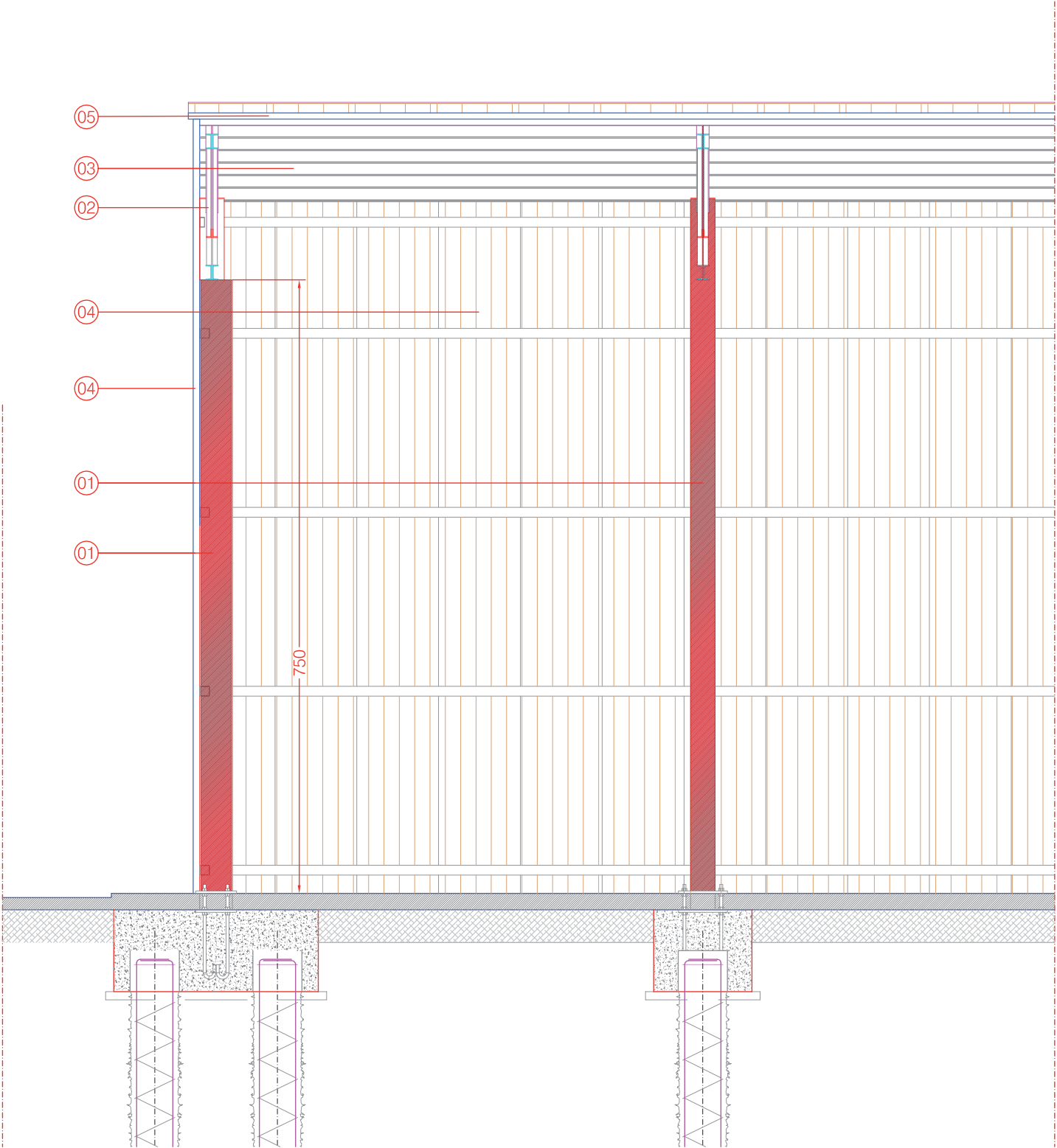
08a

PROSPECTS AND CROSS SECTIONS
PSPECTUS ET SECTIONS

CDA

C 14
c





COUPE - SECTION A - A 1 : 50

- 01 colonne in profili di acciaio laminati a caldo
colonne in profili di acciaio laminati a caldo
- 02 travi principali di falda in profili di acciaio laminati a caldo
travi principali di falda in profili di acciaio laminati a caldo
- 03 arcarecci in profili ad "omega " in acciaio
arcarecci in profili ad "omega " in acciaio
- 04 pannello sandwich di tamponamento
pannello sandwich di tamponamento
- 05 pannello sandwich di rivestimento copertura
pannello sandwich di rivestimento copertura

DRAWING
DESSIN

08b

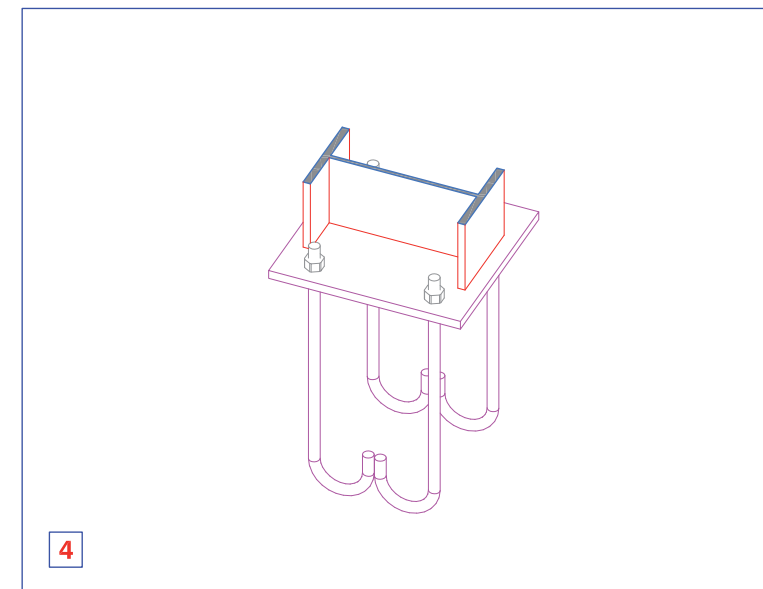
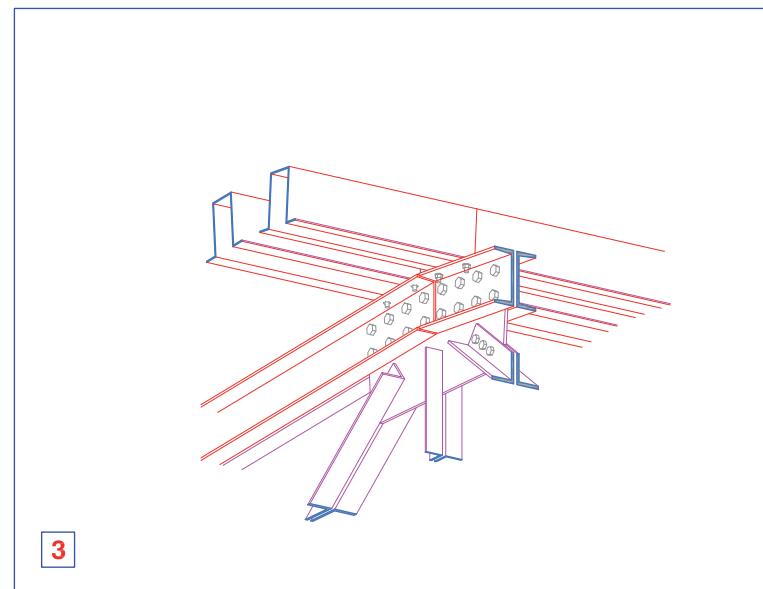
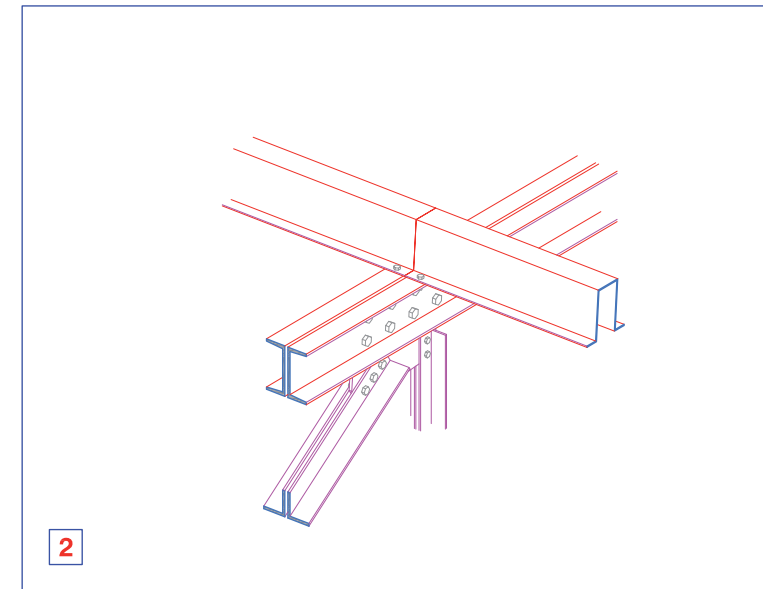
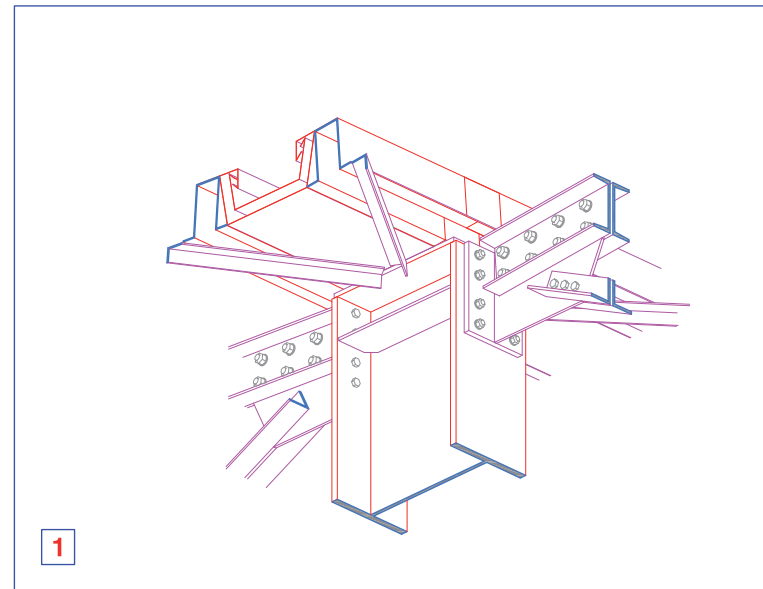
PROSPECTS AND CROSS SECTIONS
PSOSPECTUS ET SECTIONS

CDA

C 14
c

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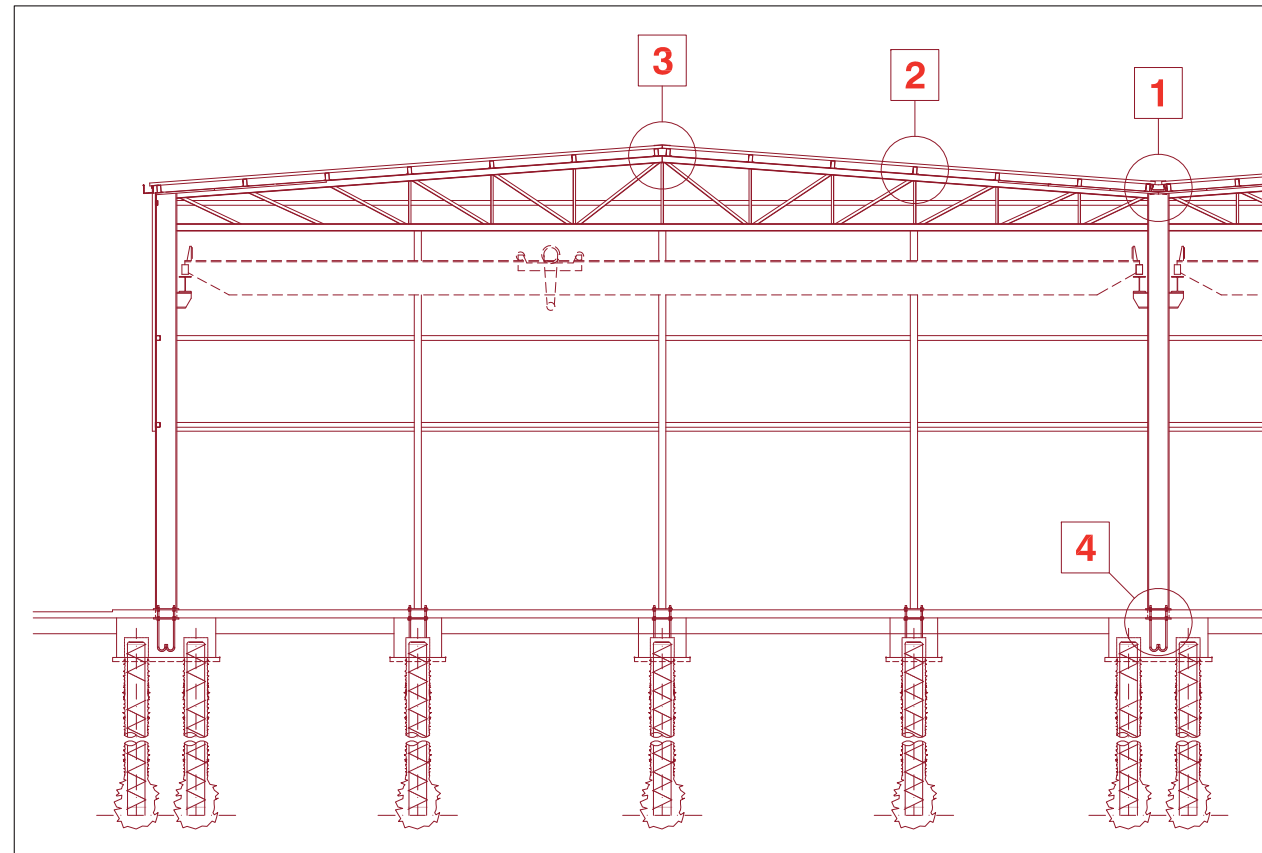




DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

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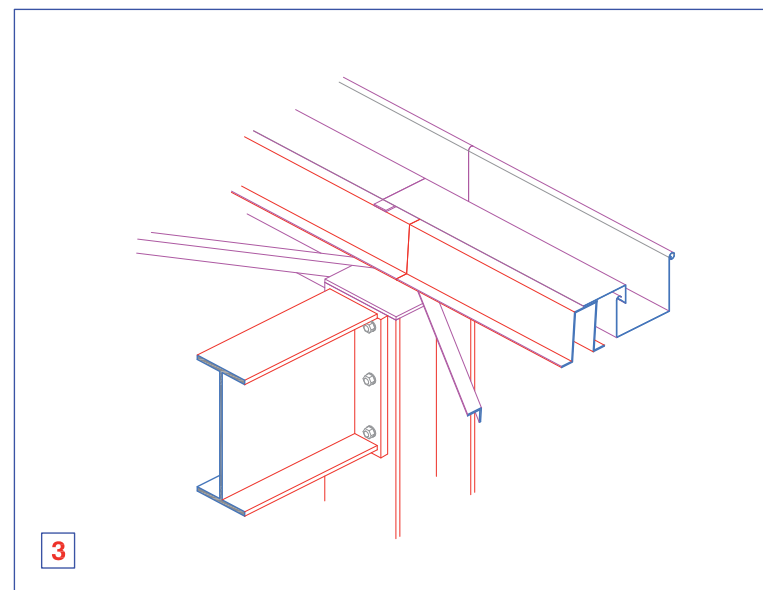
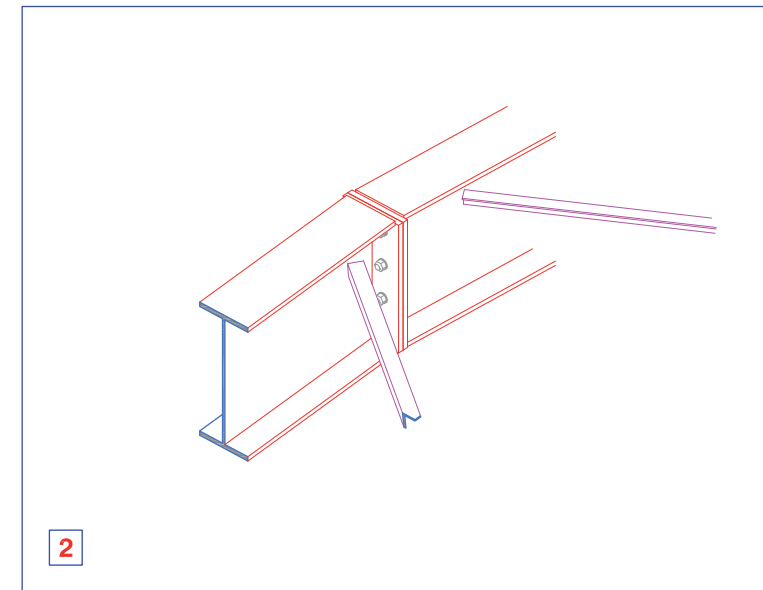
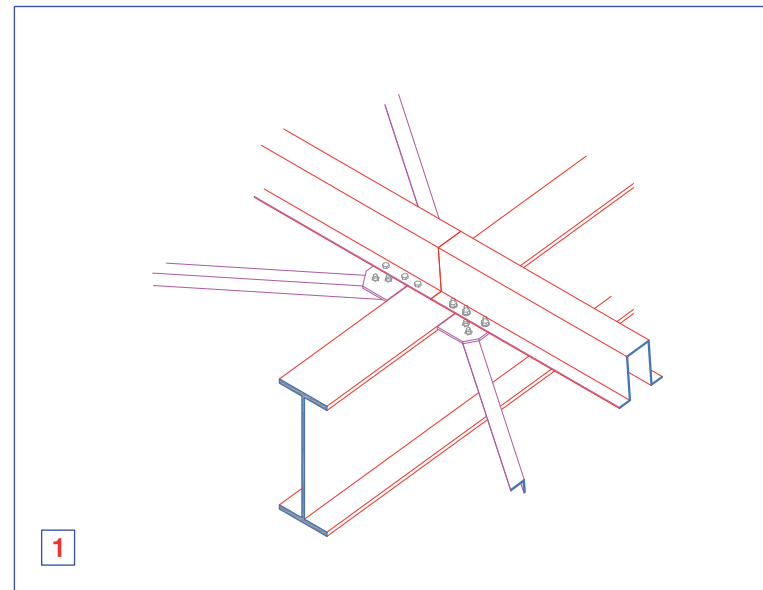
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

A

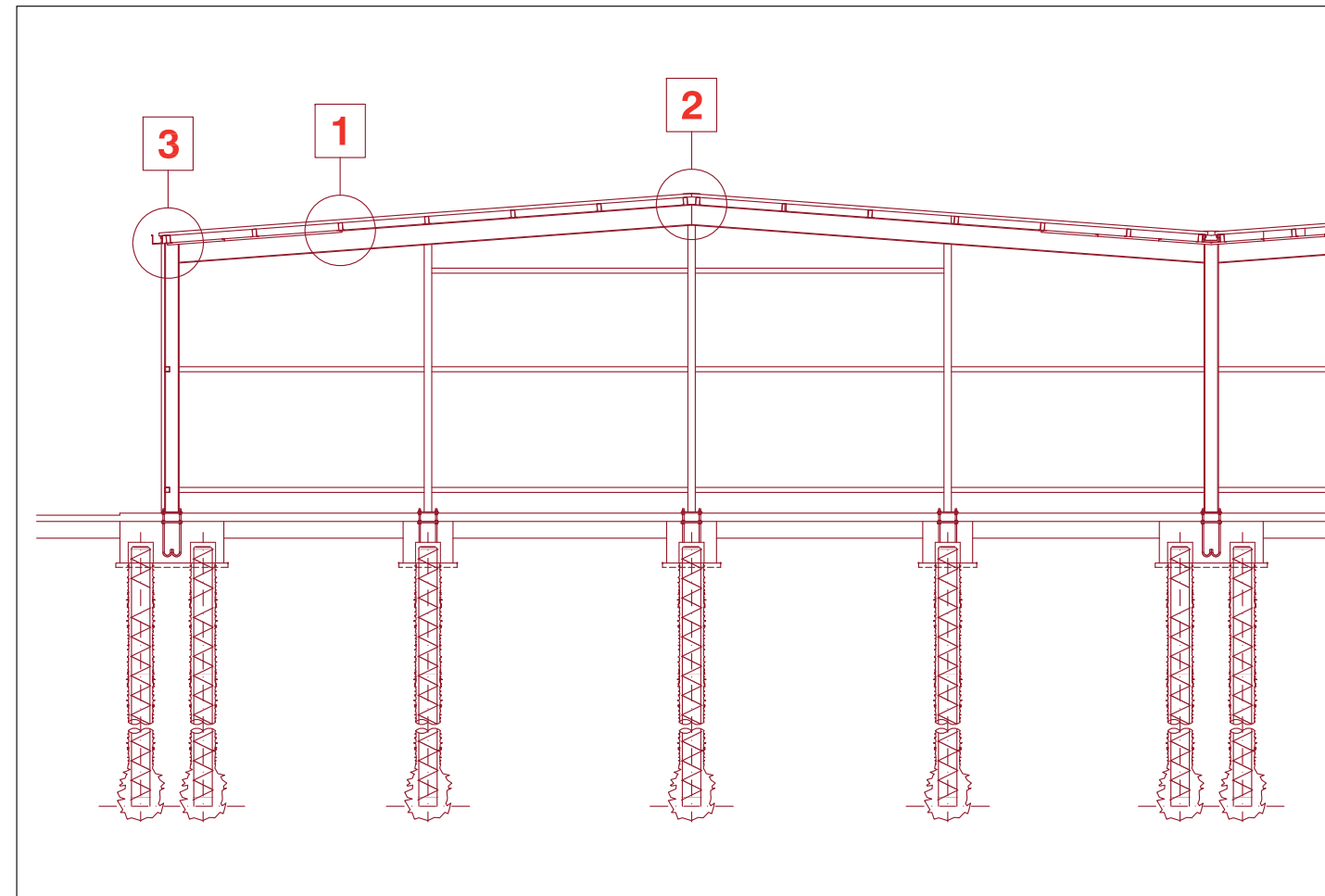
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

B1

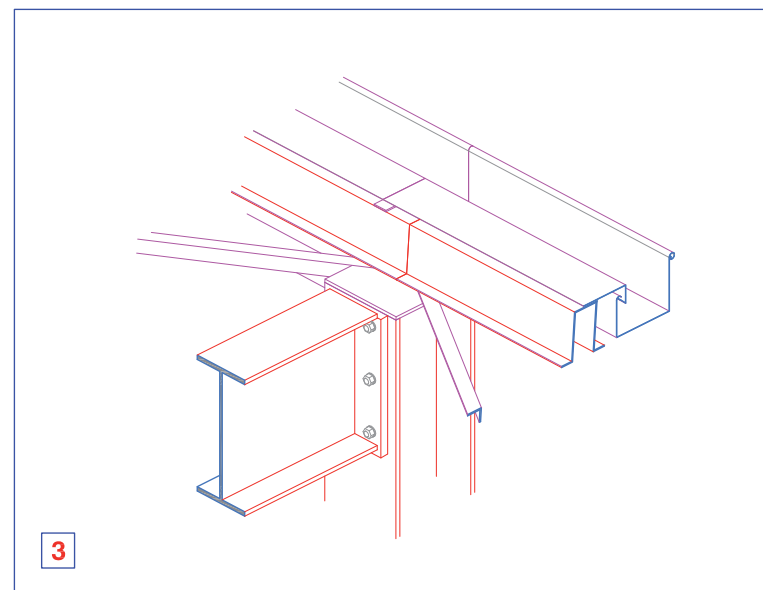
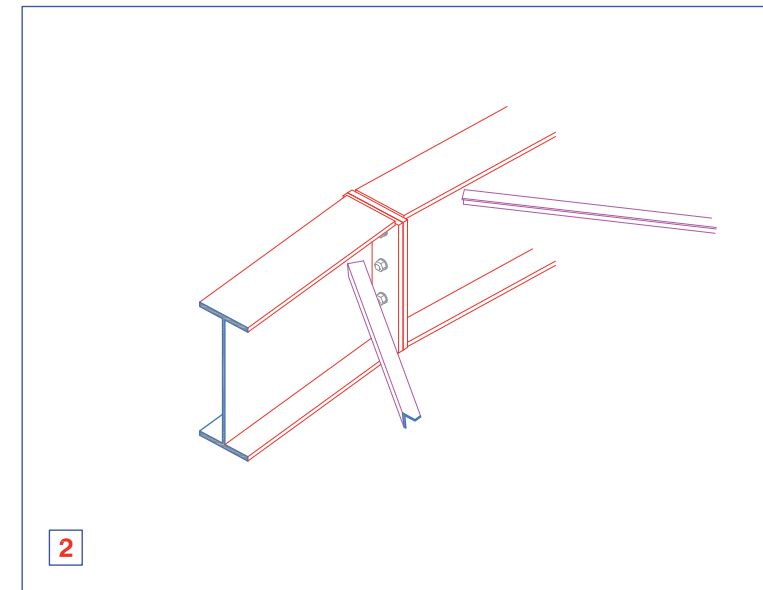
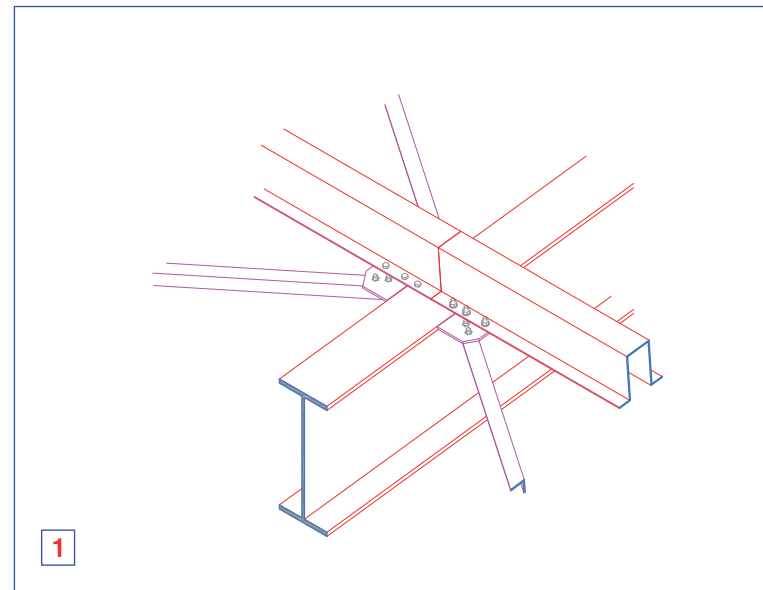
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

B

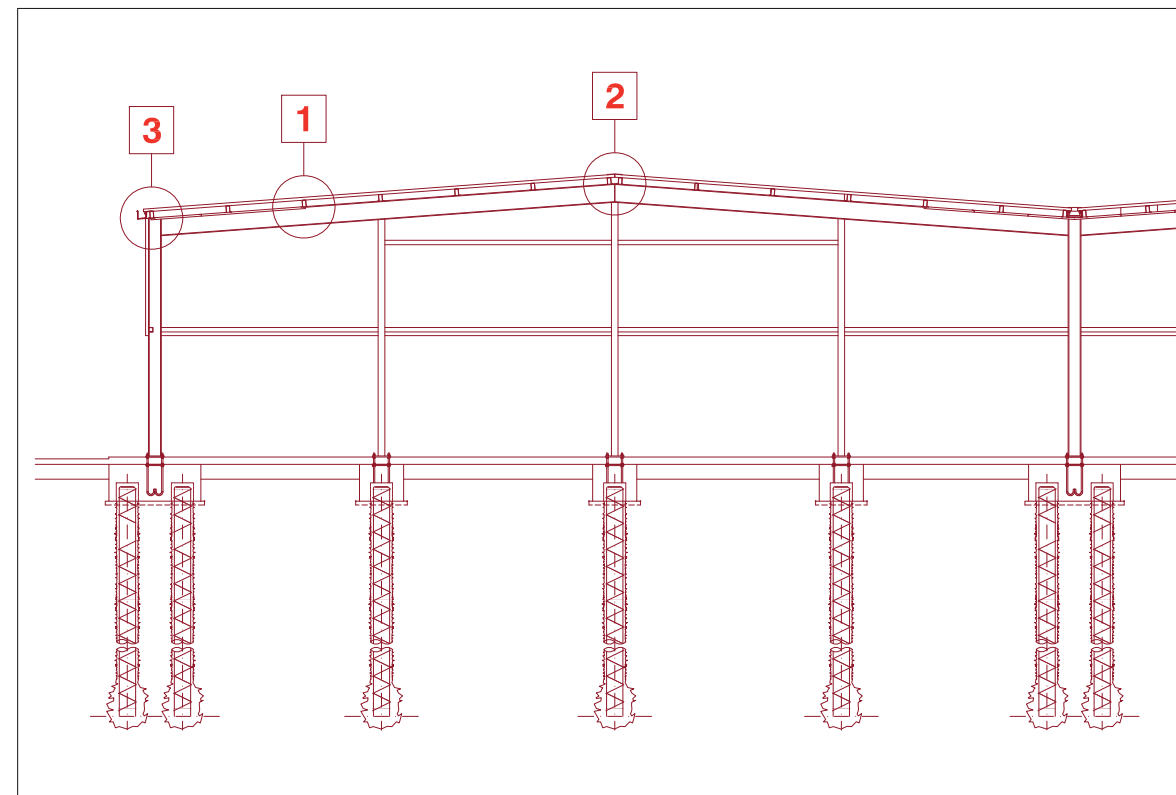
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

C1

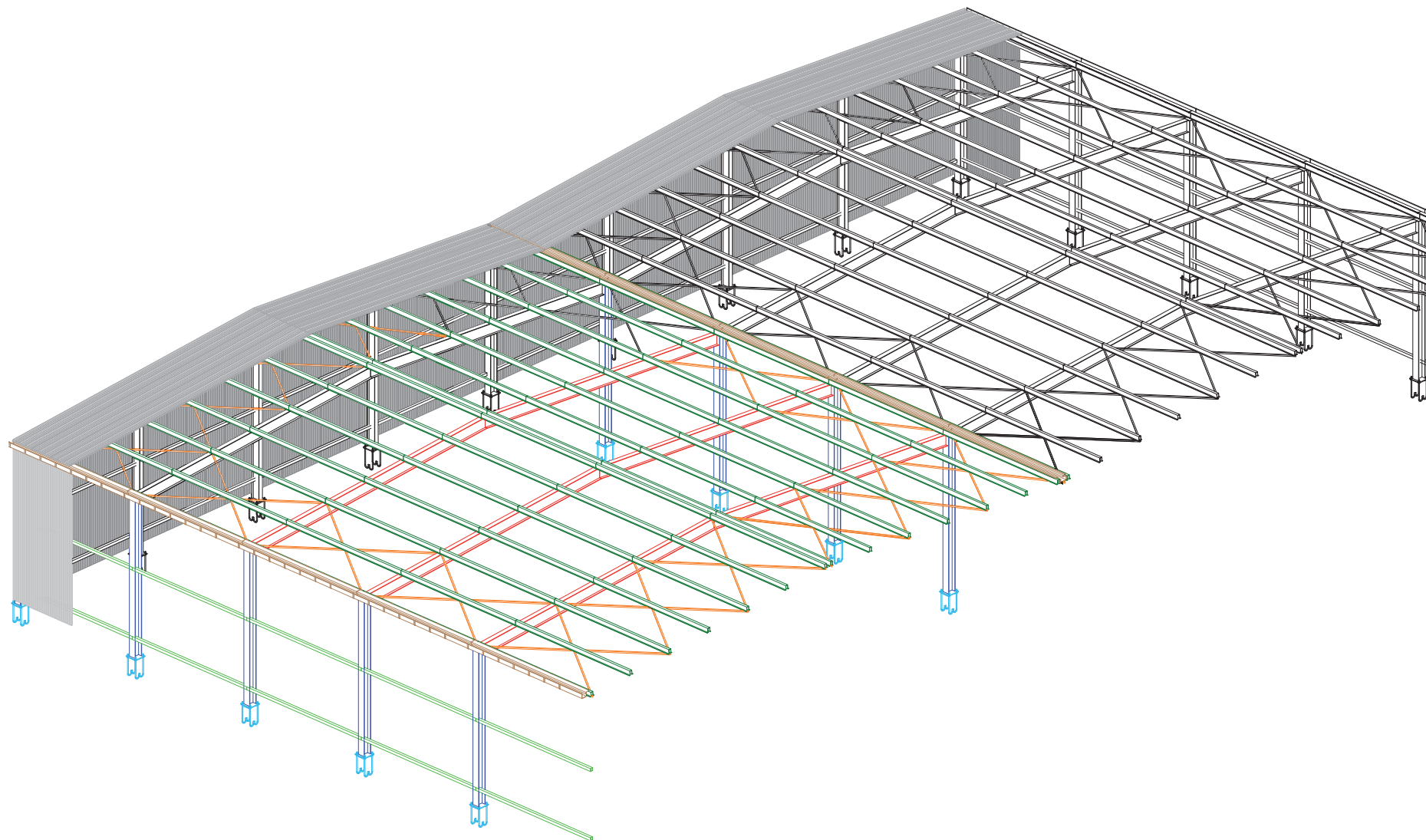
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**DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE**

C

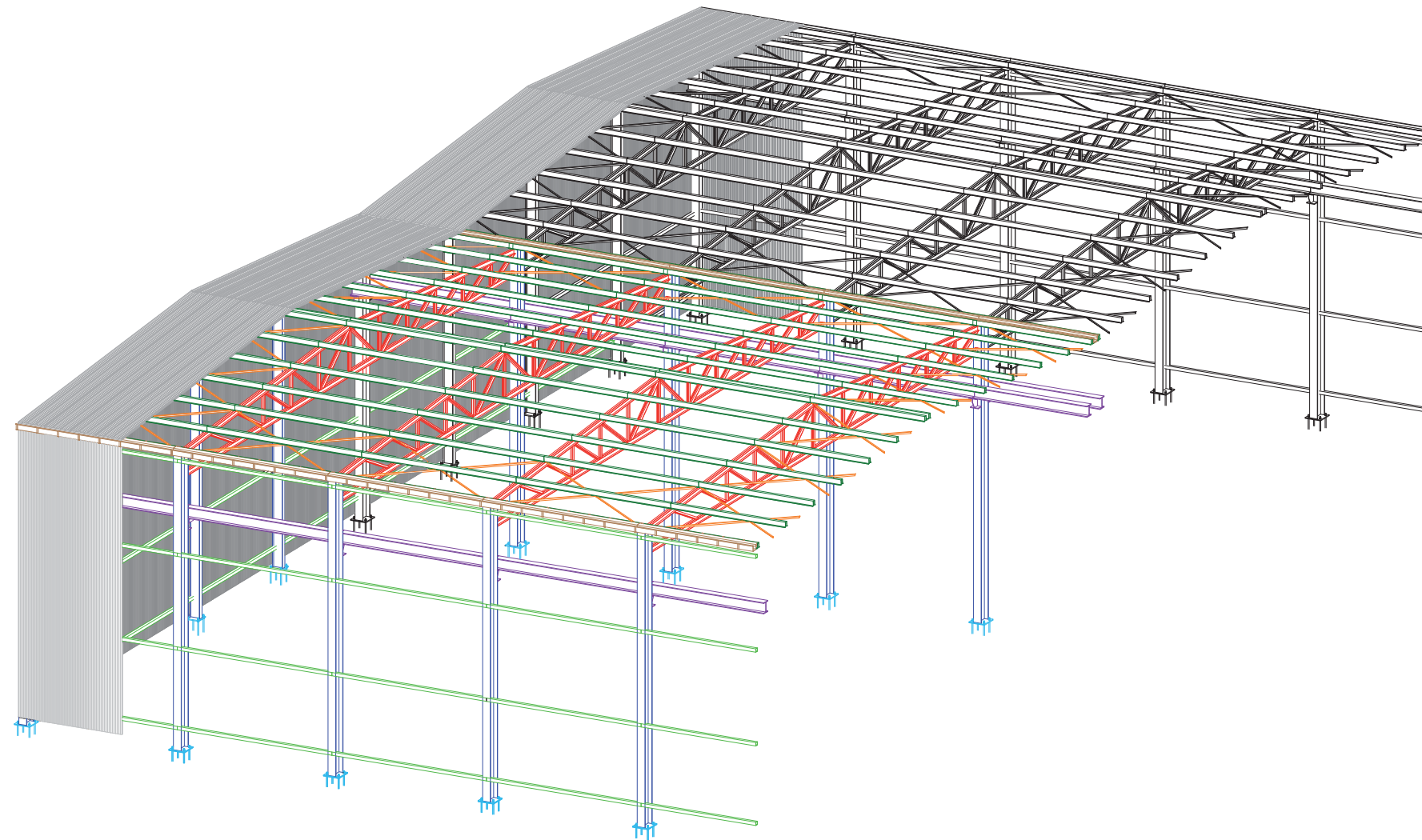
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

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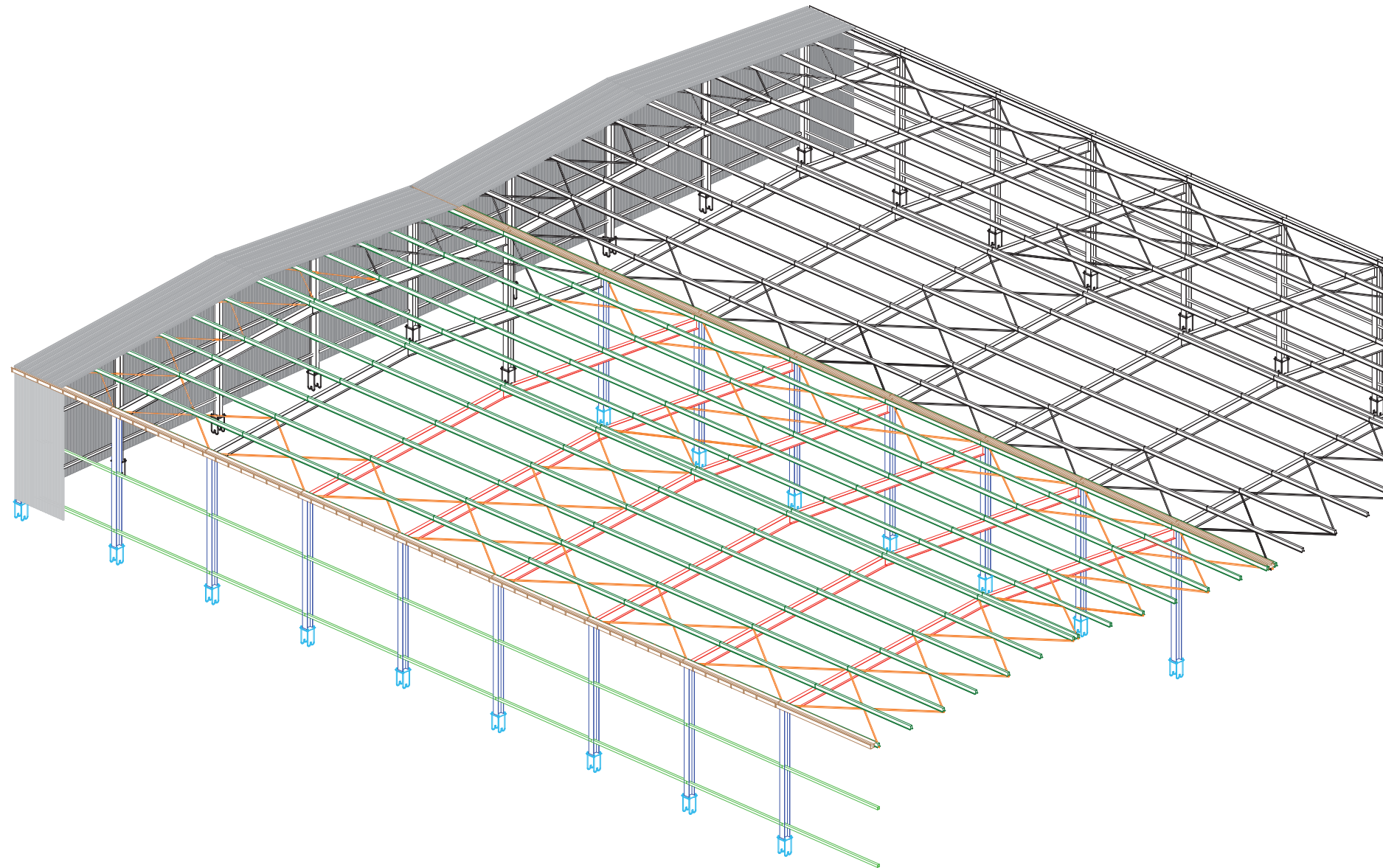
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DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

E

CDA



DETAILS DE LA CONSTRUCTION
DETAILS CONSTRUCTIVE

F

CDA



2550

LÉGENDE

Symbole	Description	Symbole	Description
	PEHD PIPE HOT WELDED FOR SEWER TUBAZIONE IN PEAD TERMOSALDATA PER SCARICHI		FIRE EXTINGUISHER ESTINTORE A CO DA 5 kg CON CAPACITÀ ESTINGUENTE 89BC
	PVC PIPE FOR EXTERNAL SEWER TUBAZIONE IN PVC PER SCARICHI ESTERNI		FLOOR DRAIN PILETTA
	PVC PIPE FOR EXTERNAL DRAINAGE TUBAZIONE IN PVC PER DRENAGGI ESTERNI		SEWER SCARICO
	PEHD PIPE HOT WELDED FOR COMPRESSED AIR TUBAZIONE IN PEAD TERMOSALDATA PER ARIA COMPRESSA		VENT THRU ROOF COLONNA DI VENTILAZIONE
	STEEL BLACK PIPE EN 10220 SS FOR COMPRESSED AIR TUBAZIONE IN ACCIAIO NERO EN 10220 SS PER ARIA COMPRESSA		STORAGE BOILER CALDAIA CON ACCUMULO
	PEHD PIPE HOT WELDED FOR FIRE FIGHTING SYSTEM TUBAZIONE IN PEAD TERMOSALDATA PER ANTINCENDIO		BALL VALVE VALVOLA A SFERA
	STEEL BLACK PIPE EN 10220 SS FOR FIRE FIGHTING SYSTEM TUBAZIONE IN ACCIAIO NERO EN 10220 SS PER ANTINCENDIO		AUTOMATIC BLOCK VALVE, NORMALLY CLOSED ELETTROVALVOLA DI INTERCETTAZIONE, NORMALMENTE CHIUSA
	PEHD PIPE HOT WELDED UNI ISO 4437 FOR GAS CH4 TUBAZIONE IN PEAD TERMOSALDATA UNI ISO 4437 PER GAS METANO		AUTOMATIC CONDENS DRAINAGE GRUPPO DI DRENAGGIO AUTOMATICO CONDENSA DN 15
	STEEL BLACK PIPE UNI 8863 SS FOR GAS CH4 TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS PER GAS METANO		GATE BALL-Ø=ØPIPE-PN 16, ISPECTION TRAP IN CONCRETE, WITH COVER VALVOLE DI INTERCETTAZIONE A SARACINESCA-Ø=ØTUBO-PN 16 POSTA ENTRO POZZETTO CON CHIUSINO
	PEHD PIPE HOT WELDED FOR POTABLE WATER TUBAZIONE IN PEAD TERMOSALDATA PER ACQUA POTABILE		TRAP IN CONCRETE WITH COVER AND SPLICE POLYETHYLENE STEEL POZZETTO IN CLS CON CHIUSINO E GIUNZIONE POLIETILENE ACCIAIO
	STEEL BLACK PIPE UNI 8863 SS FOR POTABLE WATER TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS PER ACQUA POTABILE		FLOOR DRAIN CADITOIA IN GHISA
	STEEL BLACK PIPE UNI 8863 SS FOR HOT POTABLE WATER TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS PER ACQUA CALDA POTABILE		TRAP IN CONCRETE WITH COVER, SPLICE POLYETHYLENE STEEL, GATE BALL-Ø=ØPIPE-PN 16 POZZETTO IN CLS CON CHIUSINO, GIUNZIONE POLIETILENE ACCIAIO, VALVOLA DI INTERCETTAZIONE A SARACINESCA-Ø=ØTUBO-PN 16
	PIPING GALVANIZED STEEL RICIRCULATION HOT POTABLE WATER TUBAZIONE IN ACCIAIO ZINCATO UNI 8863 SS ACQUA CALDA RICIRCOLO POTABILE		
	STANDPOST HYDRANT IDRANTE SOPRASSUOLO A COLONNA		
	UNI 45 FIRE HYDRANT, HOSE LENGHT 20 METERS IDRANTE UNI 45, LUNGHEZZA MANICHETTA 20 METRI		
	WATER ATTACK DN 100 FIRE DEPARTMENT ATTACCO MOTOPOMPA DN 100		
	FIRE EXTINGUISHER PORTABLE TYPE ABC 6 kg ESTINTORE PORTATILE A POLVERE DA 6 kg CLASSE 43A-233BC		

PRISMA ENGINEERING SRL

30020 Vidorio di Sottosile

tel. 049/2918500 fax 049/291348

MDI XXX

MAS GROUP

MAGNIFIC A SERVICE

TITOLO (INGLESE)

TITOLO (FRANCESE)

SCALE: 1:???

LOTTO NO. XX - XXX XXX

DRAWING NO. XXXXXXXX

SHEET X OF XX

XX-00

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FUTURE OF AFRICA

