

LAVORI DI ADEGUAMENTO
STRUTTURALE, EFFICIENTAMENTO
ENERGETICO E MANUTENZIONE
STRAORDINARIA DELLA SCUOLA
PRIMARIA "EX MASCHILI"

Tav ST 04

PROGETTO ESECUTIVO

SCALA: **1:50**

DATA:	02/2020
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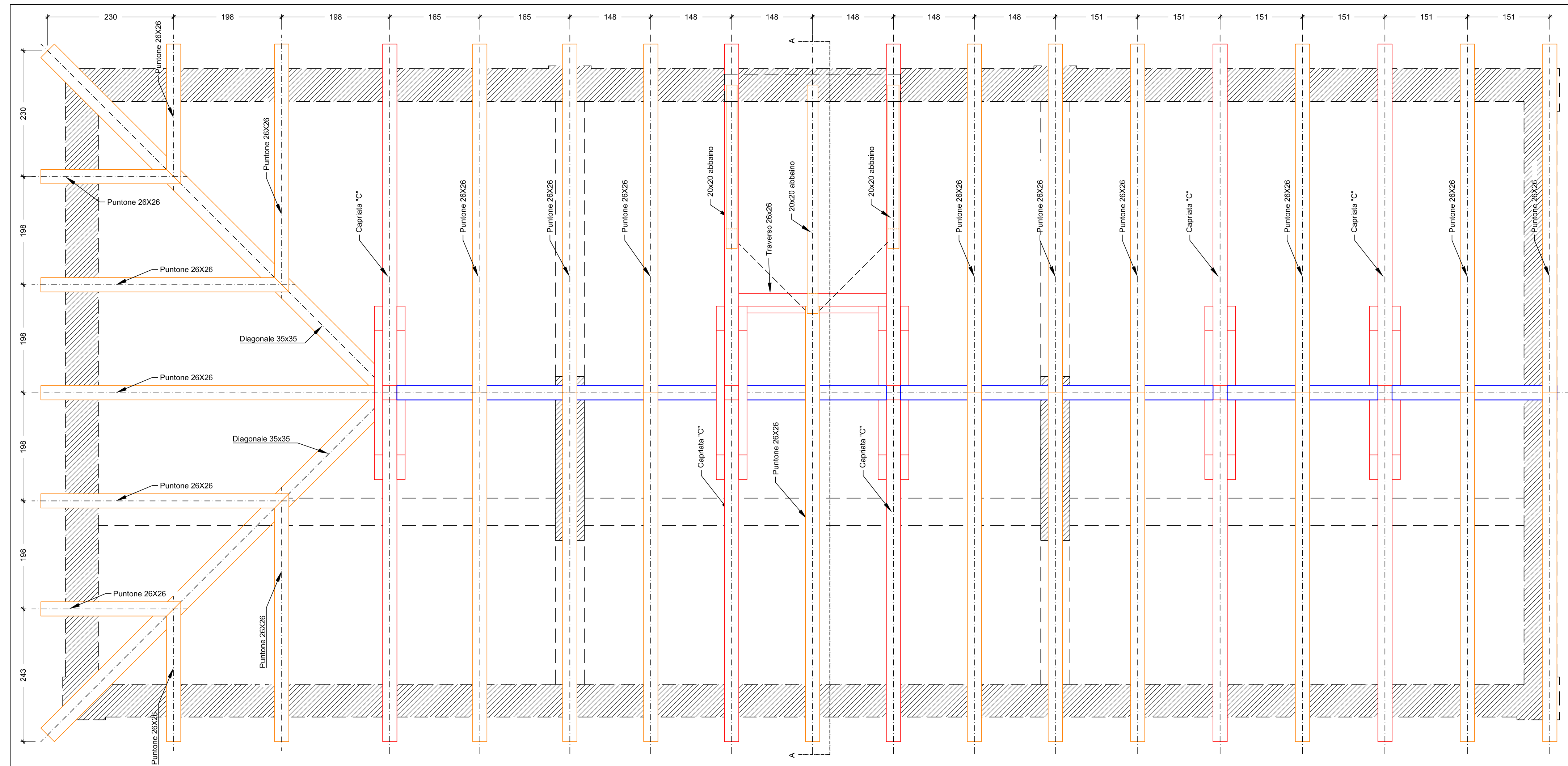
Progetto:

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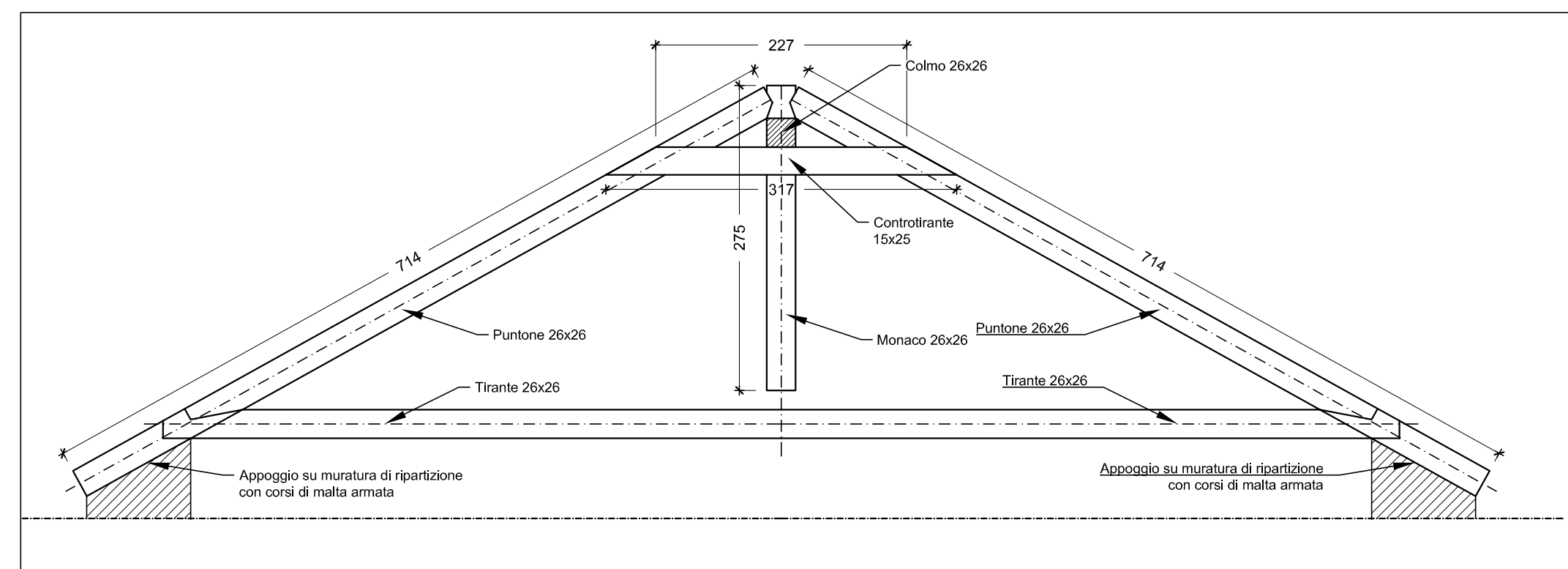


STRALCIO SEZIONE A-A
SCALA 1:50

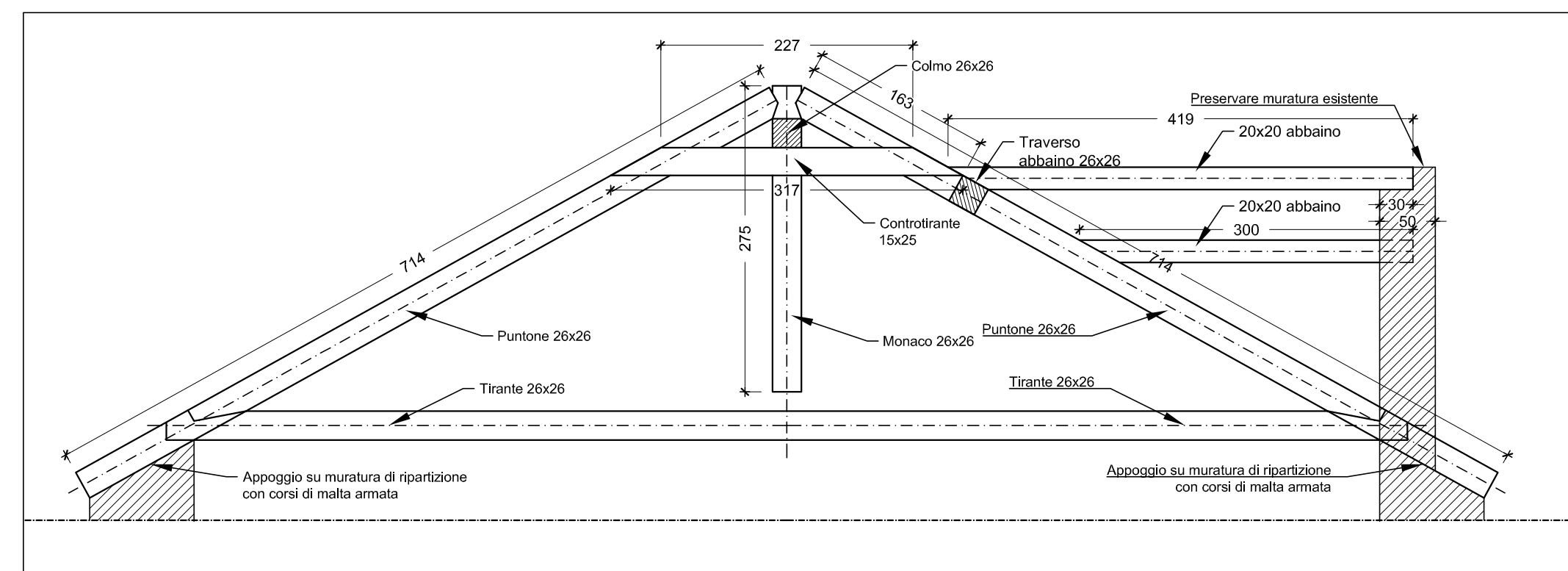
Table 1 — Strength classes - Characteristic values

		Softwood species												Hardwood species									
		C14	C16	C18	C20	C22	C24	C27	C30	C35	C40	C45	C50	D18	D24	D30	D35	D40	D50	D60	D70		
Strength properties (in N/mm ²)																							
Bending	f _{m,d}	14	16	18	20	22	24	27	30	35	40	45	50	18	24	30	35	40	50	60	70		
Tension parallel	f _{t,a}	8	10	11	12	13	14	16	18	21	24	27	30	11	14	18	21	24	30	36	42		
Tension perpendicular	f _{t,n}	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6		
Compression parallel	f _{c,d}	16	17	18	19	20	21	22	23	25	26	27	29	18	21	23	25	26	29	32	34		
Compression perpendicular	f _{c,n}	2,0	2,2	2,2	2,3	2,4	2,5	2,6	2,7	2,8	2,9	3,1	3,2	7,5	7,8	8,0	8,1	8,3	9,3	10,5	13,5		
Shear	f _v	3,0	3,2	3,4	3,6	3,8	4,0	4,0	4,0	4,0	4,0	4,0	4,0	3,4	4,0	4,0	4,0	4,0	4,0	4,5	5,0		
Stiffness properties (in kN/mm ²)																							
Mean modulus of elasticity parallel	E _{mean,p}	7	8	9	9,5	10	11	11,5	12	13	14	15	16	9,5	10	11	12	13	14	17	20		
5% modulus of elasticity parallel	E _{5%,p}	4,7	5,4	6,0	6,4	6,7	7,4	7,7	8,0	8,7	9,4	10,0	10,7	8	8,5	9,2	10,1	10,9	11,8	14,3	16,8		
Mean modulus of elasticity perpendicular	E _{mean,n}	0,23	0,27	0,30	0,32	0,33	0,37	0,38	0,40	0,43	0,47	0,50	0,53	0,63	0,67	0,73	0,80	0,86	0,93	1,13	1,33		
5% modulus of elasticity perpendicular	E _{5%,n}	0,44	0,5	0,56	0,59	0,63	0,69	0,72	0,75	0,81	0,88	0,94	1,00	0,59	0,62	0,69	0,75	0,81	0,88	1,06	1,29		
Density (in kg/m ³)																							
Density	ρ _k	290	310	320	330	340	350	370	380	400	420	440	460	475	485	530	540	550	620	700	900		
Mean density	ρ _{mean}	350	370	380	390	410	420	450	460	480	500	520	550	570	580	640	650	660	750	840	1080		
NOTE 1 Values given above for tension strength, compression strength, shear strength, 5 % modules of elasticity, mean modulus of elasticity perpendicular to grain and mean shear modulus, have been calculated using the equations given in Annex A.																							
NOTE 2 The tabulated properties are compatible with timber at a moisture content consistent with a temperature of 20 °C and a relative humidity of 65 %.																							
NOTE 3 Timber conforming to classes C45 and C50 may not be readily available.																							
NOTE 4 Characteristic values for shear strength are given for timber without fissures, according to EN 408. The effect of fissures should be covered in design codes.																							

Caratteristiche del legno (colonna relativa alla classificazione D24)



CAPRIATA TIP
SCALA 1:50



SEZIONE A-A SU ABBAINO
SCALA 1:50