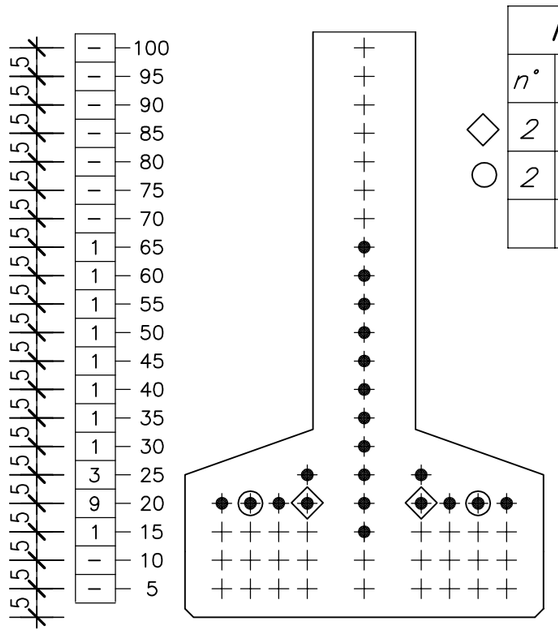


left		GUAINE	right	
n°	lungh.	pos.	lungh.	n°
2	125	20	125	2
2	250	20	250	2

N. **21** STRANDS 0.6"

barycenter
30.95 cm
from bottom

WEIGHT STRANDS daN	573

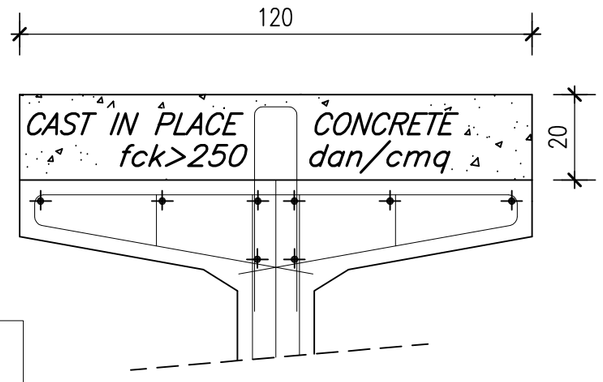
B450C

POS.	N°	ø	Length	Weight
A	6	10	2494	97.8
B	10	8	2494	98.4
C	4	10	2494	61.5
D	5+5	10	170	10.48
E	1+1	14	410	9.90
F	4+4	16	220	27.76
G	2+2	14	350	16.91
H	–	–	–	–
I	–	–	–	–

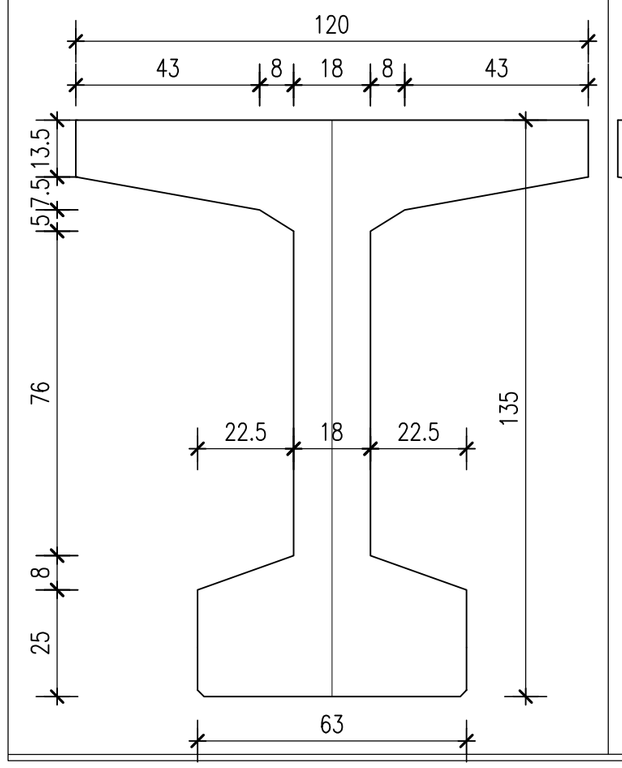
STIRRUPS B450C

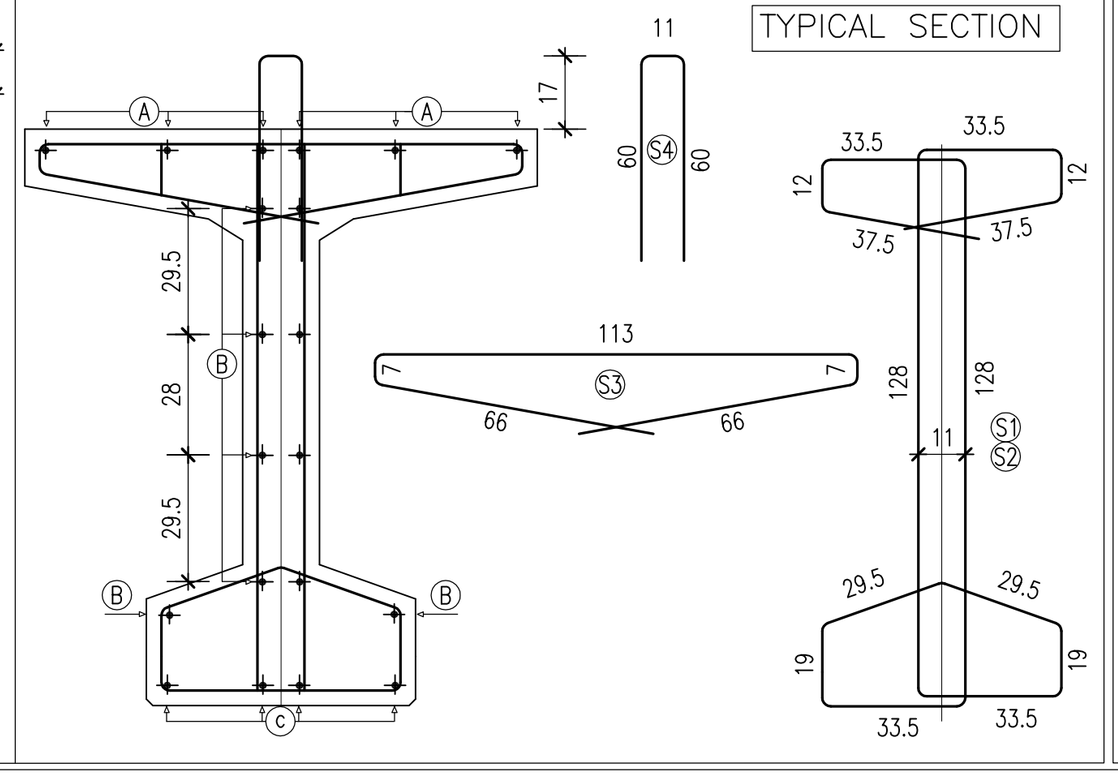
POS.	N°	ø	Length	Weight
S1	24	12	586	124.8
S2	100	10	586	361.1
S3	124	10	259	197.9
S4	124	10	131	100.1
S5				

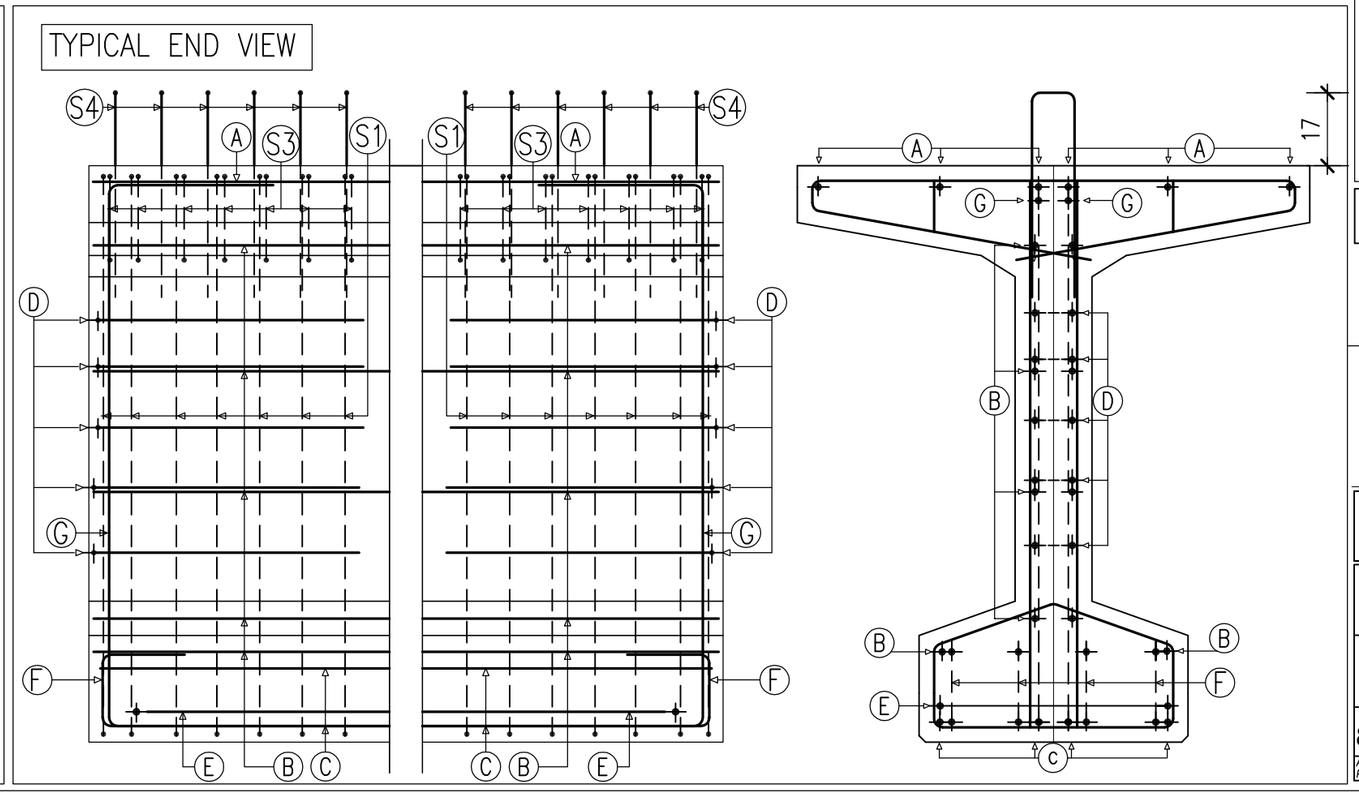
WEIGHT B50C daN	1106.7

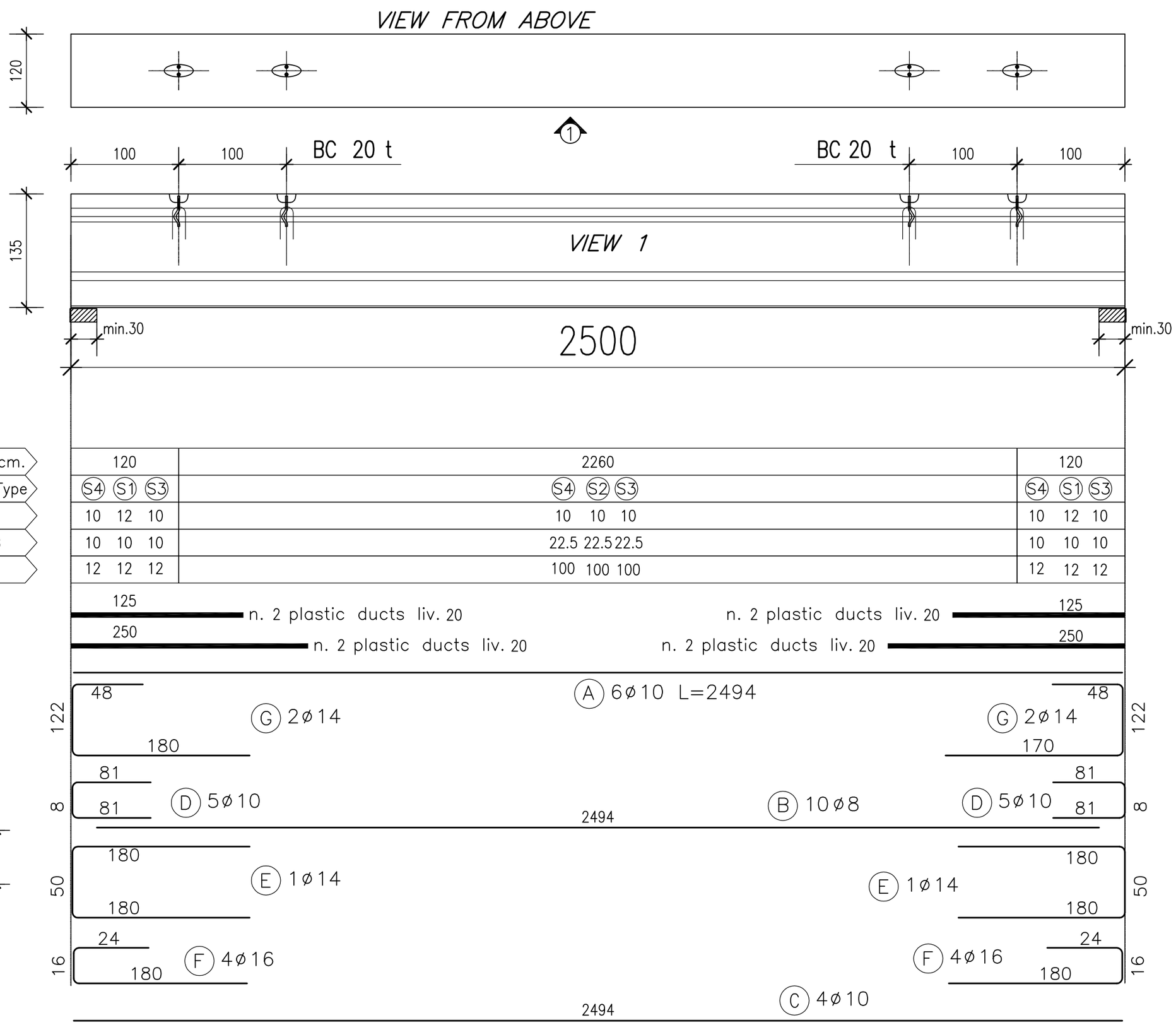


Beam Type 8









DESIGNS OUTSIDE SCALE

LOADS

VARIABLE	1200	daN/ml
PERMANENT	800	daN/ml
TOTAL	2000	daN/ml

Cast in place concrete , self-weight excluded

MATERIALS DATA

CONCRETE C45/55:
Minimum Charac. Cylinder Strength
fckj ≥ 330 daN/cmq
fck ≥ 450 daN/cmq
CONVENTIONAL REINFORCING BARS:
STEEL TYPE B450C
fyk >= 4500 daN/cmq
ftk >= 5400 daN/cmq A5>12%

PRESTRESSING STEEL:
seven Wire low relaxation strands
0.6 Diam.
Jack tension $\delta ap.$= 14030 daN/cmq
Jack Initial force=19500 daN (ø0.6)
fptk > 18600 daN/cmq
fp(1)k > 16700 daN/cmq

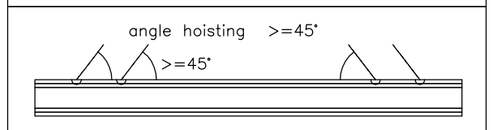
MIN COVER C= 3.5 cm
Exposure class= XD3

PRODUCTION DEVIATIONS

length +1/-2.5 cm L<20m : +1/-L/800cm L>20m
Height ± 1 cm
Width ± 1 cm
pos. Prestessing steel ± 0.5 cm
pos. Conventional Bars ± 1.5 cm

laps in different positions >40ø
min.spacing >=2 cm, >=ø max

HOISTING



TRANSPORT – STORAGE

LIFTING EQUIPEMENT

DESCRIPTION		N.
BIANCHI CASSEFORME		
FOOT EYE LIFTING ANCHORS		
AXIAL NOM.CAP.LOAD	t20	4

Laps different positions 40ø — 40xø

INITIAL BOW HEIGHT=−1.20Cm
(POSITIVE ↓ in cm)

CONCRETE
volume mc **13.95**
Weight t **34.89**

ENGISOFT
DESENZANO d/G (BS) (ITALY)
Web:www.engisoft.org
Mail:studio@engisoft.org

STANDARD PRESTRESSED CONCRETE GIRDERS

Date: 11–06–08

Object:
Beam Type 8
Length 25.00 ml

Revisions: --------

N° JOB 88(C2049)
PHASE Execution design