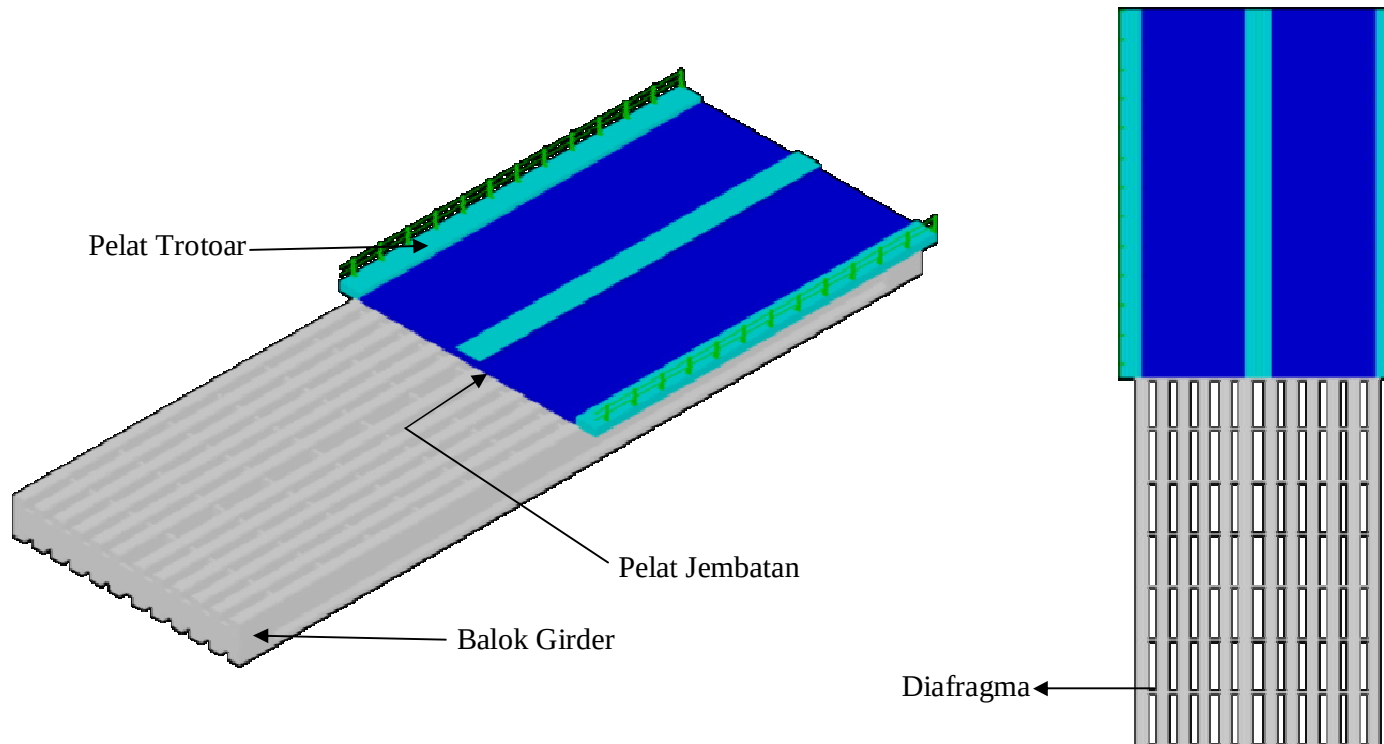
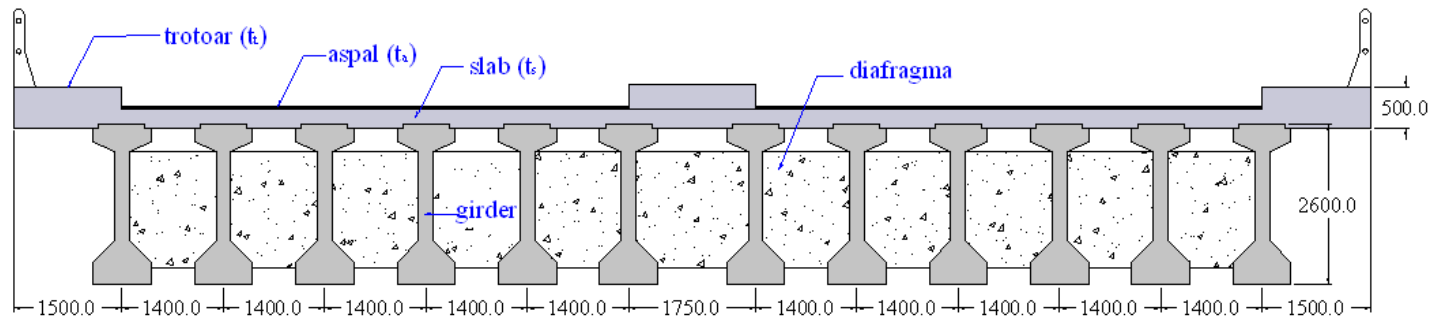


LAMPIRAN 1 - Jembatan Prategang

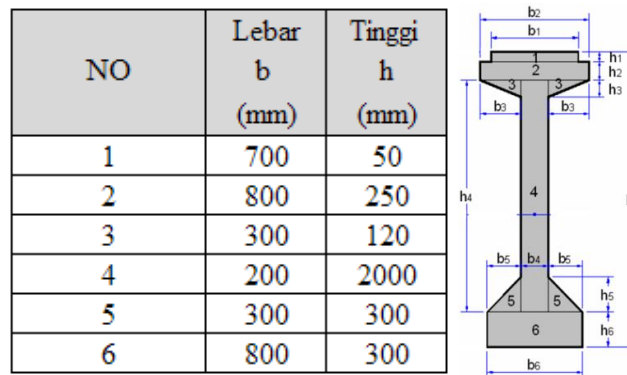


L.1 Jembatan Prategang

LAMPIRAN 2 - Penampang Melintang Jembatan



(a). Penampang melintang Jembatan.

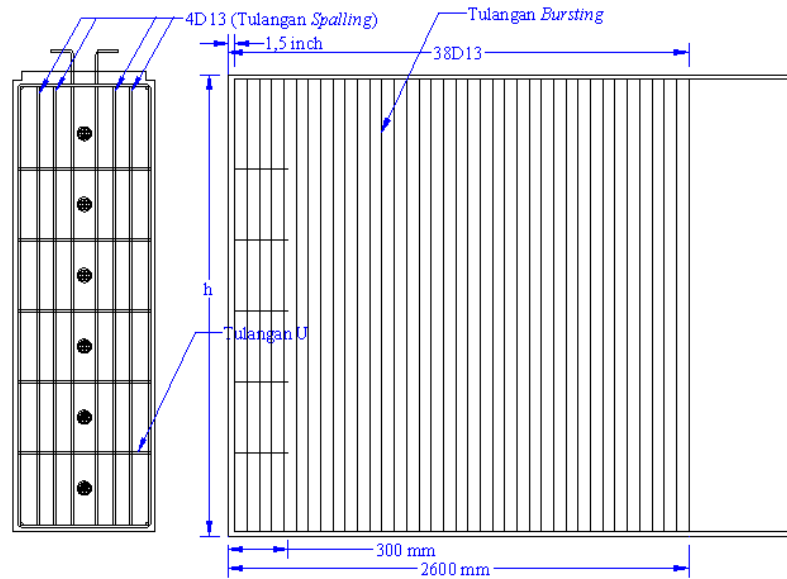


(b). Detail dimensi dan ukuran penampang 1 balok girder.

L.2 Penampang Melintang Jembatan

LAMPIRAN 3

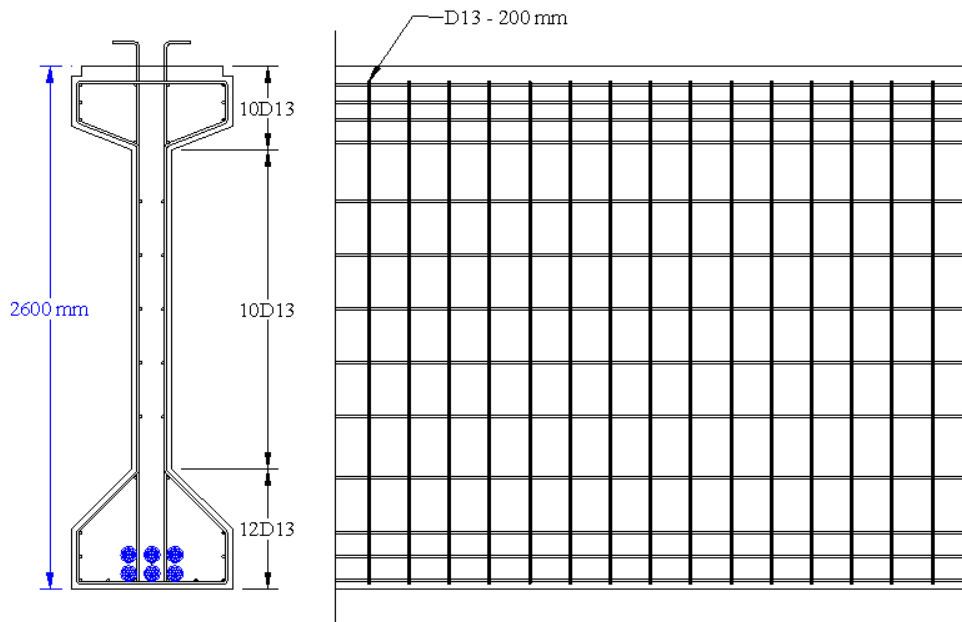
Tulangan *Spalling*, *Splitting*, dan *Bursting*



L.3 Tulangan *Spalling*, U, dan *Bursting*

LAMPIRAN 4

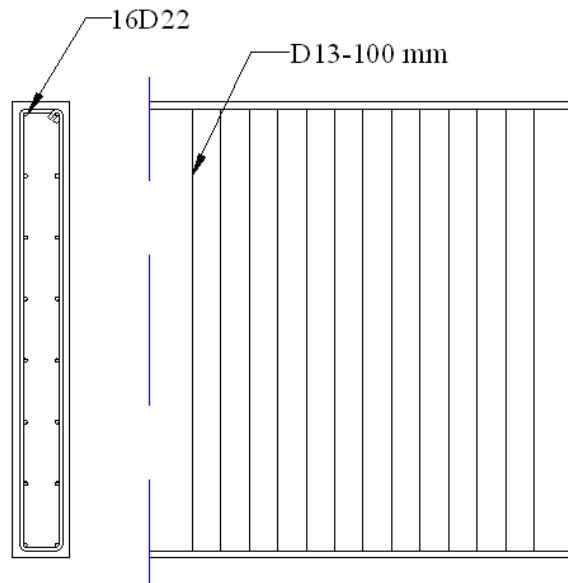
Tulangan Utama dan Tulangan Geser Girder



L.4 Tulangan Utama dan Tulangan Geser Girder

LAMPIRAN 5

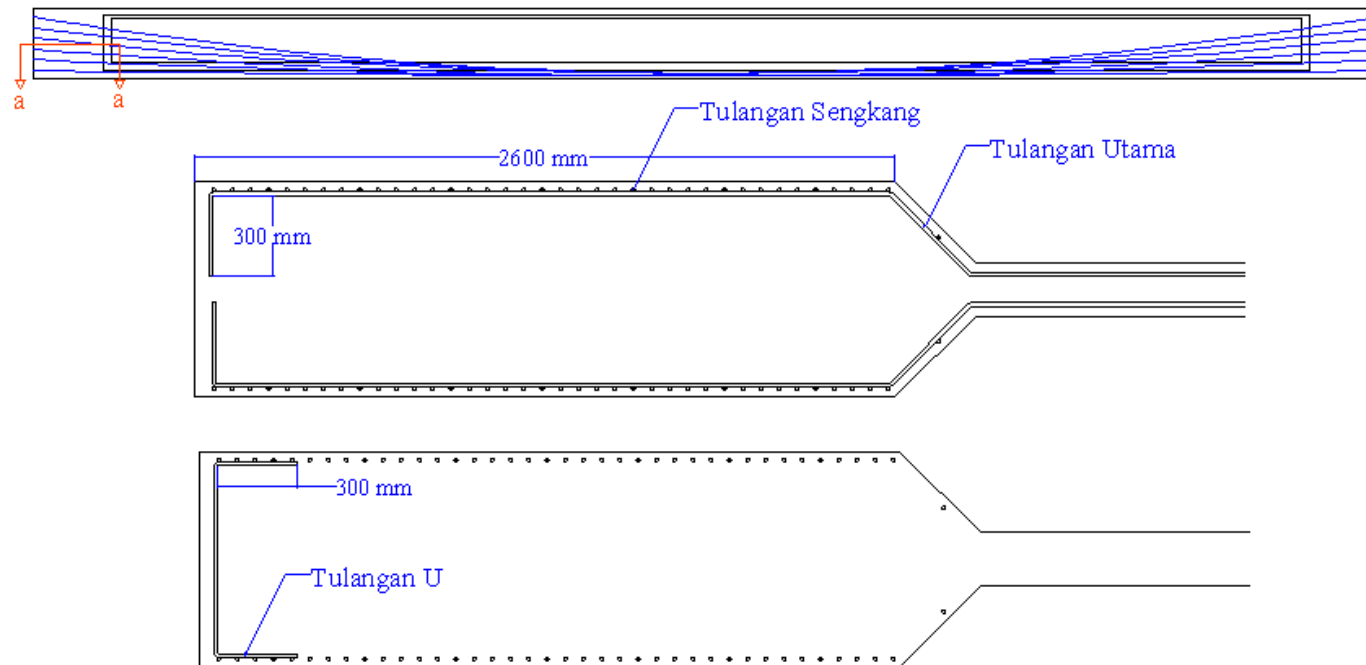
Tulangan Utama dan Tulangan Geser Diafragma



L.5 Tulangan Utama dan Tulangan Geser Diafragma

LAMPIRAN 6

Detail Potongan a – a

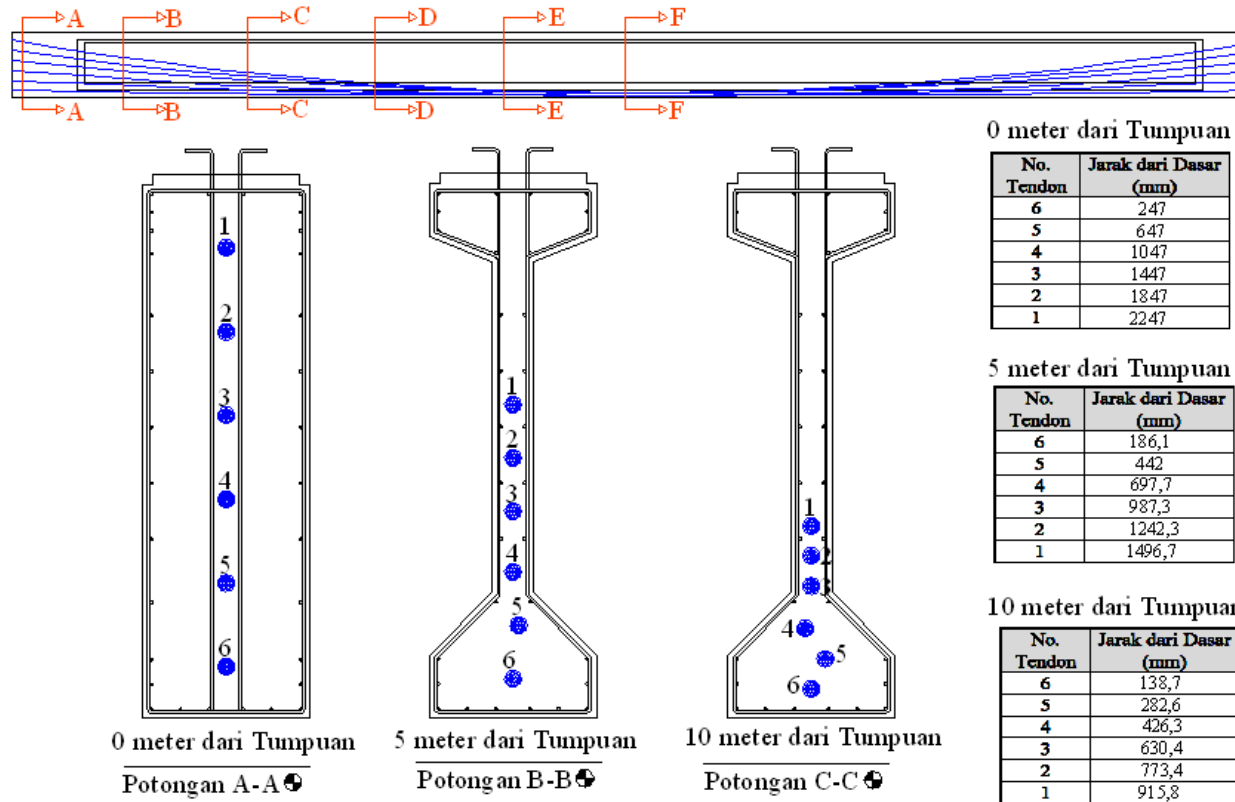


Potongan a-a 

L.6 Detail Potongan a – a

LAMPIRAN 7

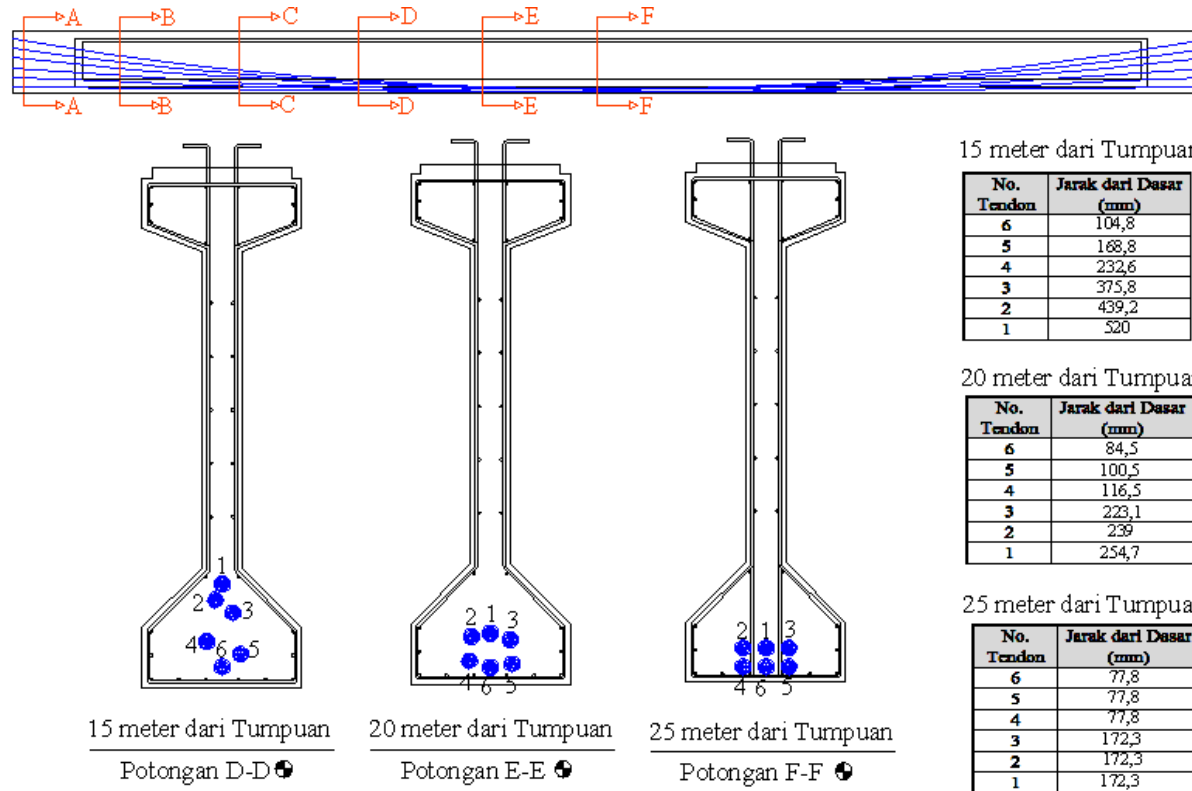
Detail Potongan A – A, Potongan B – B, dan Potongan C – C



L.7 Detail Potongan A – A, Potongan B – B, dan Potongan C – C

LAMPIRAN 8

Detail Potongan D – D, Potongan E – E, dan Potongan F – F

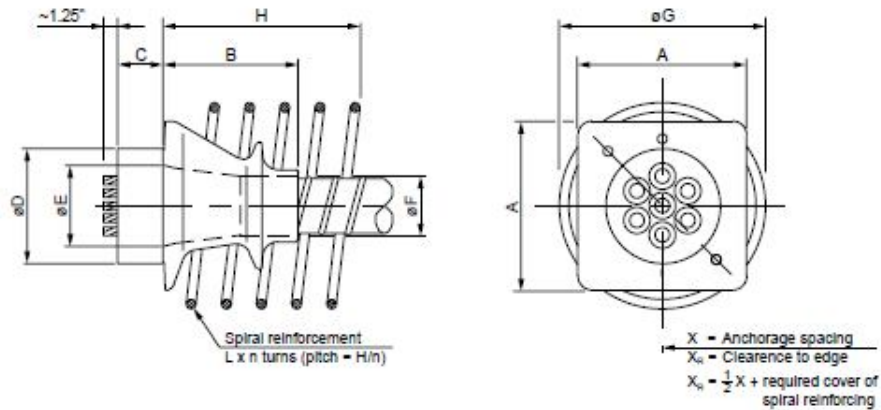


L.8 Detail Potongan D – D, Potongan E – E, dan Potongan F – F

LAMPIRAN 9

Spesifikasi Strassing Anchorage VSL Type EC

Stressing Anchorage VSL Type EC



Tendon Unit		Dimensions Inches										
Strand Type 0.5"	5-7	6.50	5.25	2.38	4.50	2.91	2.50	9.00	12.00	#4	6	9.50
	5-12	8.88	7.06	2.38	6.00	4.31	3.13	11.75	16.00	#4	8	12.50
	5-19	11.00	10.25	3.00	7.00	5.56	3.75	15.00	18.00	#5	8	15.75
	5-27	12.38	13.63	4.00	9.00	7.00	4.75	18.00	18.00	#6	8	18.75
	5-31	14.00	13.63	4.00	9.00	7.00	4.75	19.00	20.25	#6	9	20.00

Other sizes available on request.

Anchorage spacings are in accordance with test requirements of FIP (Recommendations for Acceptance of Post-Tensioning Systems, March 1992). For proper design and detailing of anchorage zones and related reinforcement, refer to the VSL Publication "Detailing for Post-Tensioning".

Dimensions are valid for:

- Nominal concrete cylinder strength at 28 days: 4,000 psi (28 MPa).
- Maximum prestressing force may be applied when concrete reaches a cylinder strength of 3,500 psi (24 MPa).

• Temporary compressive strength of Concrete at Ultimate Tensile Strength

subject to modification

- Yield strength of spiral reinforcement: Grade 60 (400 MPa).
- Spirals may be replaced by suitable orthogonal reinforcement.
- Information for other concrete strengths and conditions are available from your local VSL Representative.

Spiral reinforcement shall be centered on the anchorage assembly and be placed directly behind the bearing plate.

Additional orthogonal reinforcement may be required in the local anchorage zone as determined by design.

L.9 Spesifikasi Stressing Anchorage VSL Type EC

LAMPIRAN 10

MANUAL VSL MULTISTRAND SYSTEM

VSL MULTISTRAND SYSTEMS:

Strand and Tendon Properties



Strand Properties

Strand Type		0.5" (13 mm)	0.6" (15 mm)
Nominal diameter	inch	0.5	0.6
Nominal area	inch ²	0.153	0.217
Nominal weight/mass	lbs/ft	0.53	0.74
Tensile strength	ksi	270	270
Min. breaking load	kips	41.3	58.6
Young's modulus	ksi	approx. 28,500	
Relaxation	%	max 2.5	

www.vsl.net
888-489-2687

Tendon Properties

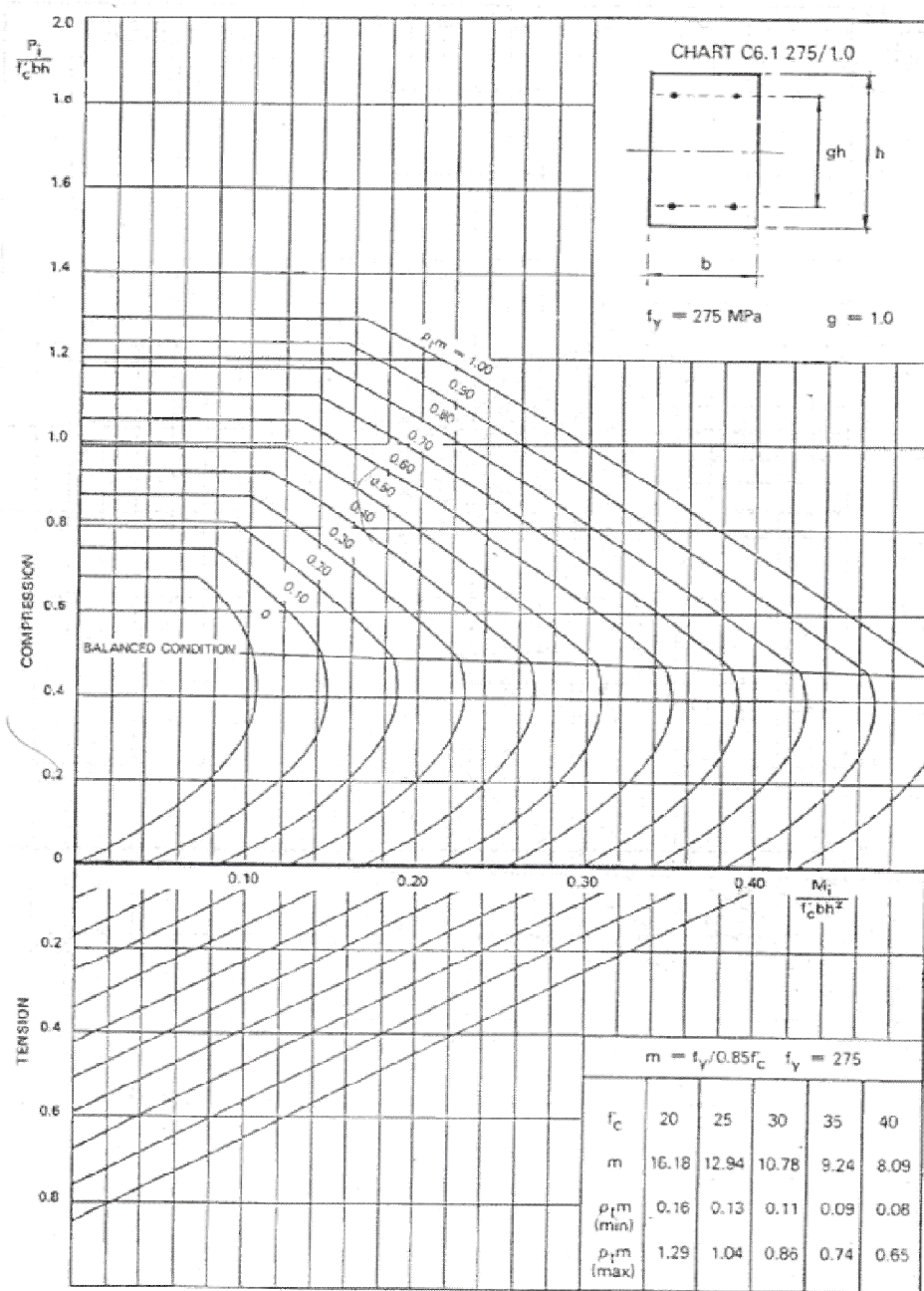
Strands Type 0.5" (270 ksi)		
Number of Strands Per Tendon	Area of tendon inch ²	Min breaking load kips
1	0.15	41.3
2	0.31	82.6
3	0.46	123.9
4	0.61	165.2
5	0.77	206.5
6	0.92	247.8
7	1.07	289.1
8	1.22	330.4
9	1.38	371.7
10	1.53	413.0
11	1.68	454.3
12	1.84	495.6
13	1.99	536.9
14	2.14	578.2
15	2.30	619.5
16	2.45	660.8
17	2.60	702.1
18	2.75	743.4
19	2.91	784.7
20	3.06	826.0
21	3.21	867.3
22	3.37	908.6
23	3.52	949.9
24	3.67	991.2
25	3.83	1032.5
26	3.98	1073.8
27	4.13	1115.1

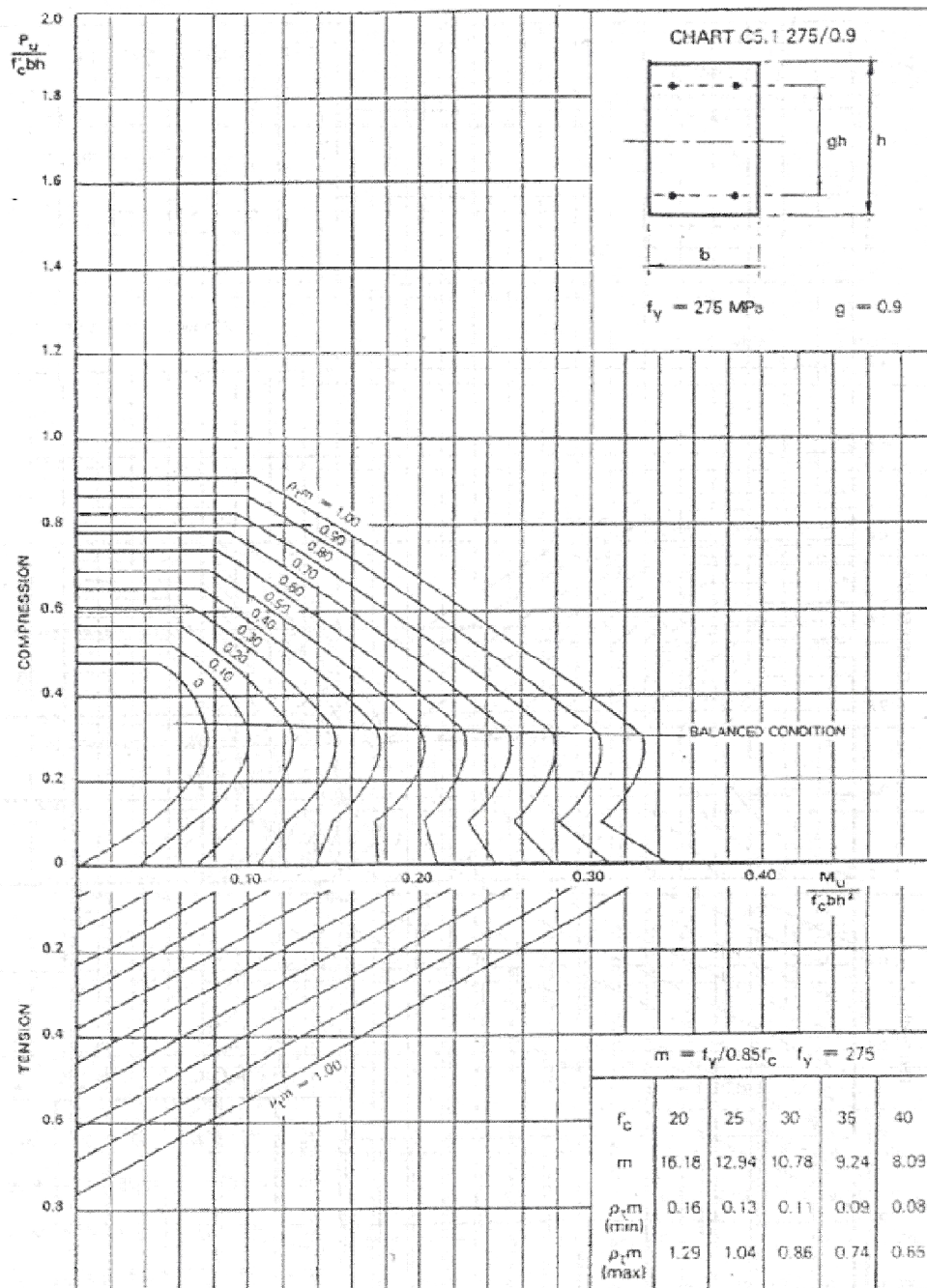
Strands Type 0.6" (270 ksi)		
Number of Strands Per Tendon	Area of tendon inch ²	Min breaking load kips
1	0.22	58.6
2	0.43	117.2
3	0.65	175.8
4	0.87	234.4
5	1.09	293.0
6	1.30	351.6
7	1.52	410.2
8	1.74	468.8
9	1.95	527.4
10	2.17	586.0
11	2.39	644.6
12	2.60	703.2
13	2.82	761.8
14	3.03	820.4
15	3.26	879.0
16	3.47	937.6
17	3.69	996.2
18	3.91	1054.8
19	4.12	1113.4
20	4.34	1172.0
21	4.56	1230.6
22	4.78	1289.2
23	4.99	1347.8
24	5.21	1406.4
25	5.43	1465.0
26	5.64	1523.6
27	5.86	1582.2

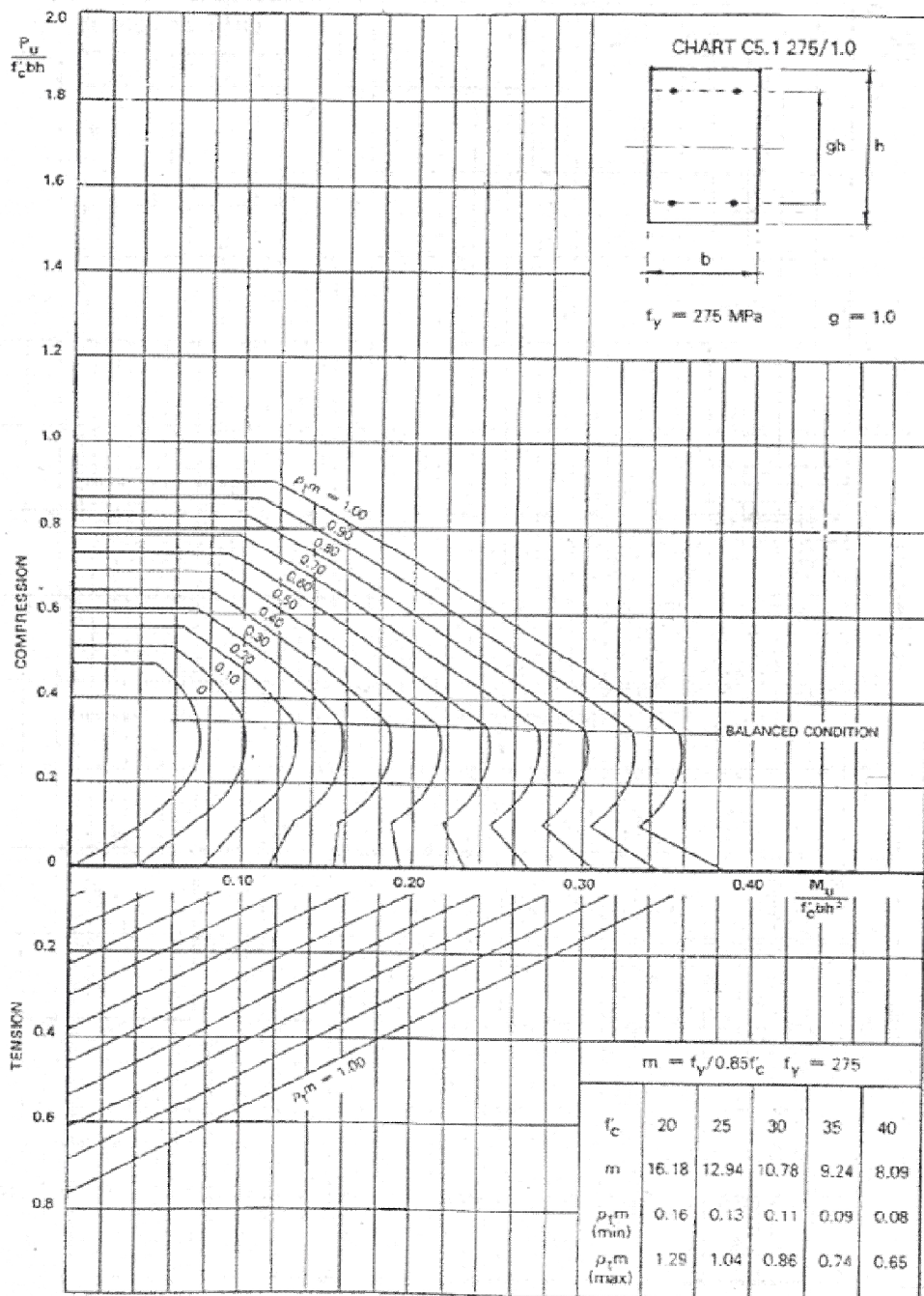
L.10 MANUAL VSL MULTISTRAND SYSTEM

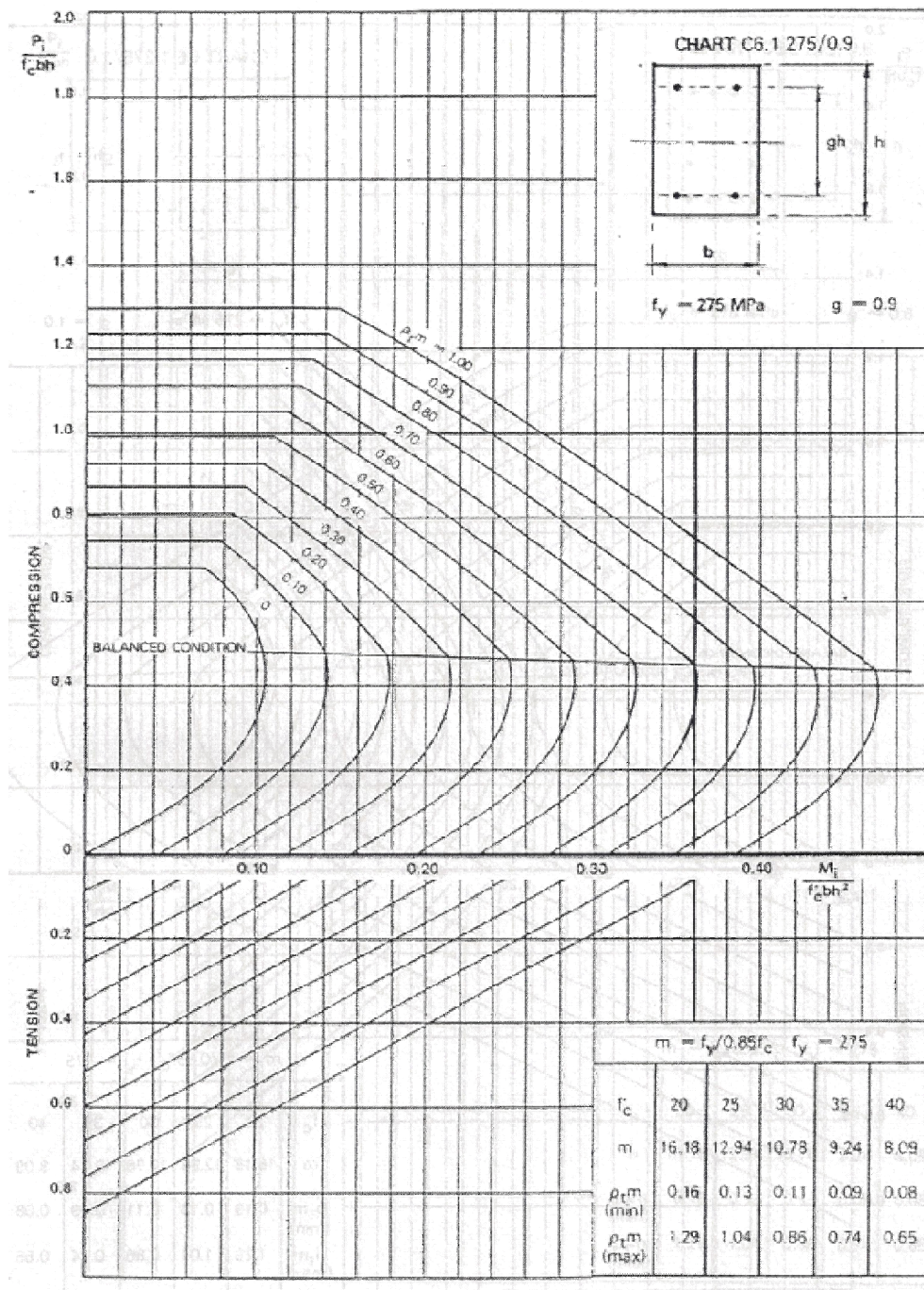
LAMPIRAN 11

Grafik NZR









L.11 Grafik NZR