

PŘEHLED ZATĚŽOVACÍCH STAVŮ

- 1 - VLASTNI TIHA PRUTU
- 2 - DALSI STALE
- 3 - UZITNE
- 4 - REAKCE VAZNIKU
- 5 - ZAUHLOVACI PASY
- 6 - OCELOVA CAST ZASOBNIKU
- 7 - UHLI SVISLY TLAK
- 8 - UHLI VODOROVNY TLAK
- 9 - VITR
- 10 - BAGHOUSE Y+
- 11 - BAGHOUSE Y-
- 12 - BAGHOUSE X+
- 13 - BAGHOUSE X-
- 14 - N1 - transformátor 1000 kVA
- 15 - N2a - jerabova drážka J1
- 16 - N2b - jerabova drážka J1
- 17 - N3a - nosník N1
- 18 - N3b - nosník N1
- 19 - N4b - VLASTNI TIHA VYSYPEK A PODAVACU
- 20 - N4c - UHLI V OCELOVYCH VYSYPKACH
- 21 - N5a - ZASOBNIK VAPENCE - VLASTNI TIHA KONSTRUKCI
- 22 - N5b - ZASOBNIK VAPENCE - VAPENEC

Číslo ZS	Součinitel γ_f	Číslo ZS pro výp. kombinací
1	1.1/0.9	0
2	1.1/0.9	0
3	1.2	1
4	1.1/0.9	0
5	1.2	2
6	1.1/0.9	0
7	1.4	3
8	1.4	4
9	1.3	5
10	1.0	6
11	1.0	6
12	1.0	6
13	1.0	6
14	1.1	7
15	1.1	8
16	1.1	8
17	1.1	9
18	1.1	9
19	1.1	10
20	1.4	11
21	1.1	12
22	1.4	13

VSTUPNÍ DATA ZATEZOVACÍCH STAVŮ PRO PROGRAM 4 DEFOR 4

POPIS ZATEZOVACÍCH STAVŮ - ZS 1

NAZEV :

1 - VLASTNÍ TIHA PRUTU

ZATÍŽENÍ PRUTU [kN,kNm], [mm,mm/m]

END

ZATÍŽENÍ UZLU [kN,kNm], [mm, mm/m]

END

ZADÁNÍ VLASTNÍ TIHY

ČÍSLO PRUTU SPECIFICKÁ TIHA

V SERII MATERIÁLU PRUTU

PRVNÍ POSL. kN/m³

1 190 25.

191 216 100.56

END

POPIS ZATEZOVACÍCH STAVŮ - ZS 2

NAZEV :

2 - DALŠÍ STÁLE

ZATÍŽENÍ PRUTU [kN,kNm], [mm,mm/m]

ČÍSLO PRUTU	TYPY	ZATÍŽENÍ	POČATEČNÍ INTENZITA	KONČOVÁ INTENZITA	POLOHA ZÁČATKU	POLOHA KONCE
V SERII						

PRVNÍ POSL. T1 T2 SM T3 T4 T5

63	65	0	0	2	1	0	2	-25.5		
51	0	0	0	2	1	1	2	-17.5	.25	2.
53	0	0	0	2	1	1	2	-17.5	.25	2.
52	0	0	0	2	1	1	2	-17.5	2.5	4.25
54	0	0	0	2	1	1	2	-17.5	2.5	4.25
55	0	0	0	2	1	1	2	-7.5	.25	2.
61	0	0	0	2	1	1	2	-7.5	.25	2.
56	0	0	0	2	1	1	2	-7.5	2.5	4.25
62	0	0	0	2	1	1	2	-7.5	2.5	4.25
57	0	0	0	2	1	1	2	-20.	.25	2.
59	0	0	0	2	1	1	2	-20.	.25	2.
58	0	0	0	2	1	1	2	-20.	2.5	4.25
60	0	0	0	2	1	1	2	-20.	2.5	4.25
99	0	0	0	2	1	1	2	-15.6	.5	2.65
100	0	0	0	2	1	1	2	-15.6	.35	3.83
101	0	0	0	2	1	1	2	-15.6	.18	3.83
102	0	0	0	2	1	1	2	-15.6	.18	3.65
103	0	0	0	2	1	1	2	-15.6	.35	2.5
104	109	0	0	2	1	0	2	-4.5		
104	109	0	0	2	1	0	2	-.36		
110	115	0	0	2	1	0	2	-16.74		
114	0	0	0	2	0	0	1	-14.	1.	
174	0	0	0	2	1	1	2	-26.69	.5	2.65
175	0	0	0	2	1	1	2	-26.69	.35	3.83
176	0	0	0	2	1	1	2	-26.69	.18	3.83
177	0	0	0	2	1	1	2	-26.69	.18	3.65
178	0	0	0	2	1	1	2	-26.69	.35	2.5
91	0	0	0	2	1	1	2	-26.69	0.	.71
92	0	0	0	2	1	1	2	-26.69	.35	3.83
93	0	0	0	2	1	1	2	-26.69	.18	3.83
94	0	0	0	2	1	1	2	-26.69	.18	3.65
95	0	0	0	2	1	1	2	-26.69	.35	1.061

96	98	0	0	2	1	0	2	-4		
86	90	0	0	2	1	0	2	-.63		
66	68	0	0	2	1	0	2	-1.85		
161	0	0	0	2	1	0	2	-1.85		
1	2	0	0	2	0	0	1	-5.67	5.45	
138	0	0	0	2	1	0	1	-8.31		
141	0	0	0	2	1	0	1	-8.31		
142	143	0	0	2	1	0	1	-9.38		
139	140	0	0	2	1	0	1	-12.5		
181	182	0	0	2	1	0	1	-12.5		
185	186	0	0	2	1	0	1	-12.5		
31	0	0	0	2	1	0	2	-7.5		
35	0	0	0	2	1	0	2	-7.5		
39	40	0	0	2	1	0	2	-6.5		
41	42	0	0	2	1	0	2	-19.		
25	30	0	0	2	1	1	2	-20.	.25	2.75
165	167	0	0	2	1	1	2	-27.	.25	2.75
1	0	0	0	2	0	0	1	-398.	5.5	
3	0	0	0	2	0	0	1	-398.	5.5	
2	0	0	0	2	0	0	1	-182.3	5.2	
4	0	0	0	2	0	0	1	-182.3	5.2	

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]
 CISLO UZLU TYPY ZATIZ. VELIKOST
 V SERII ZATIZENI
 PRVNI POSL. T1 T2 SMER
 70 0 0 0 2 -14.

END

POPIS ZATEZOVACICH STAVU - ZS 3
 NAZEV :
 3 - UZITNE

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]											
CISLO PRUTU	TYPY	ZATIZENI	POCATECNI	KONCOVA	POLOHA	POLOHA					
V SERII			INTENZITA	INTENZITA	ZACATKU	KONCE					
PRVNI POSL.	T1	T2	SM	T3	T4	T5					
55	56	0	0	2	1	0	2	-7.5			
61	62	0	0	2	1	0	2	-7.5			
51	54	0	0	2	1	0	2	-17.5			
57	60	0	0	2	1	0	2	-20.			
39	0	0	0	2	1	0	2	-12.			
40	0	0	0	2	1	0	2	-12.			
31	0	0	0	2	1	0	2	-28.			
35	0	0	0	2	1	0	2	-28.			
41	0	0	0	2	1	0	2	-32.			
42	0	0	0	2	1	0	2	-32.			
25	30	0	0	2	1	0	2	-90.			
165	167	0	0	2	1	0	2	-90.			
1	0	0	0	2	0	0	1	-135.	5.2		
3	0	0	0	2	0	0	1	-135.	5.2		
2	0	0	0	2	0	0	1	-162.	5.2		
4	0	0	0	2	0	0	1	-162.	5.2		
1	0	0	1	3	0	0	1	-202.5	5.2		
3	0	0	1	3	0	0	1	-202.5	5.2		

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]
 END

POPIS ZATEZOVACICH STAVU - ZS 4

NAZEV :

4 - REAKCE VAZNIKU

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU V SERII	TYPY	ZATIZENI	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
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PRVNI POSL. T1 T2 SM T3 T4 T5

114	0	0	0	2	0	0	1	-250.	1.
114	0	0	1	3	0	0	1	-62.5	1.

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

CISLO UZLU V SERII	TYPY	ZATIZ.	VELIKOST ZATIZENI
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PRVNI POSL. T1 T2 SMER

70	0	0	0	2	-250.
70	0	0	1	3	-62.5

END

POPIS ZATEZOVACICH STAVU - ZS 5

NAZEV :

5 - ZAHLUVACI PASY

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU V SERII	TYPY	ZATIZENI	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
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PRVNI POSL. T1 T2 SM T3 T4 T5

55	0	0	0	2	0	0	1	-27.	3.
61	0	0	0	2	0	0	1	-27.	3.
56	0	0	0	2	0	0	1	-27.	1.5
62	0	0	0	2	0	0	1	-27.	1.5
51	0	0	0	2	0	0	1	-63.	3.
53	0	0	0	2	0	0	1	-63.	3.
52	0	0	0	2	0	0	1	-63.	1.5
54	0	0	0	2	0	0	1	-63.	1.5
57	0	0	0	2	0	0	1	-72.	3.
59	0	0	0	2	0	0	1	-72.	3.
58	0	0	0	2	0	0	1	-72.	1.5
60	0	0	0	2	0	0	1	-72.	1.5

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

END

POPIS ZATEZOVACICH STAVU - ZS 6

NAZEV :

6 - OCELOVA CAST ZASOBNIKU

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU V SERII	TYPY	ZATIZENI	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
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PRVNI POSL. T1 T2 SM T3 T4 T5

83	85	0	0	2	1	0	2	-5.83
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ZATIZENI UZLU [kN,kNm], [mm, mm/m]
END

POPIS ZATEZOVACICH STAVU - ZS 7

NAZEV :

7 - UHLI SVISLY TLAK

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU TYPY ZATIZENI POCATECNI KONCOVA POLOHA POLOHA
V SERII INTENZITA INTENZITA ZACATKU KONCE

PRVNI POSL. T1 T2 SM T3 T4 T5

99	99	0	0	2	2	1	2	0.	-43.32	0.	1.5
103	103	0	0	2	2	1	2	0.	-43.32	0.	1.5
99	99	0	0	2	2	1	2	-43.32	0.	1.5	3.
103	103	0	0	2	2	1	2	-43.32	0.	1.5	3.
101	102	0	0	2	2	1	2	0.	-63.87	0.	2.
101	102	0	0	2	2	1	2	-63.87	0.	2.	4.
138	138	0	0	2	2	1	2	0.	-73.58	0.	1.01
141	141	0	0	2	2	1	2	0.	-73.58	0.	1.01
138	0	0	0	2	2	1	2	-73.58	-57.11	1.01	2.53
141	0	0	0	2	2	1	2	-73.58	-57.11	1.01	2.53
138	0	0	0	2	2	1	2	-57.11	0.	2.53	5.029
141	0	0	0	2	2	1	2	-57.11	0.	2.53	5.029
142	143	0	0	2	2	1	2	0.	-73.58	0.	6.07
142	143	0	0	2	2	1	2	-73.58	-57.11	6.07	7.59
142	143	0	0	2	2	1	2	-57.11	0.	7.59	10.12
142	143	0	0	2	2	1	2	0.	-137.16	0.	3.37
142	143	0	0	2	2	1	2	-137.16	-88.38	3.37	6.75
142	143	0	0	2	2	1	2	-88.38	0.	6.75	10.12
185	186	0	0	2	2	1	2	-146.42	-274.32	0.	1.57
185	186	0	0	2	2	1	2	-274.32	-230.03	1.57	3.104
139	140	0	0	2	2	1	2	-230.03	-176.76	0.	1.842
139	140	0	0	2	2	1	2	-176.76	0.	1.842	5.215
181	182	0	0	2	2	1	2	0.	-146.42	0.	1.801
126	127	0	0	2	2	1	2	0.	-81.81	0.	.36
126	127	0	0	2	2	1	2	-81.81	-146.61	.36	1.89
126	127	0	0	2	2	1	2	-146.61	-110.97	1.89	5.08
126	127	0	0	2	2	1	2	-110.97	0.	5.08	5.91
83	0	0	0	2	2	1	2	0.	-161.67	0.	2.
85	0	0	0	2	2	1	2	0.	-161.67	0.	2.
84	0	0	0	2	2	1	2	-93.06	-254.73	0.	2.
83	0	0	0	2	2	1	2	-161.67	0.	2.	4.
85	0	0	0	2	2	1	2	-161.67	0.	2.	4.
84	0	0	0	2	2	1	2	-254.73	-93.06	2.	4.
83	0	0	0	2	2	1	2	0.	-93.06	0.	1.
83	0	0	0	2	2	1	2	-93.06	-93.06	1.	4.
85	0	0	0	2	2	1	2	-93.06	-93.06	0.	3.
85	0	0	0	2	2	1	2	-93.06	0.	3.	4.
78	0	0	0	2	2	1	2	0.	-43.2	0.	.5
80	0	0	0	2	2	1	2	0.	-43.2	0.	.5
78	0	0	0	2	2	1	2	-43.2	-43.2	.5	3.5
80	0	0	0	2	2	1	2	-43.2	-43.2	.5	3.5
78	0	0	0	2	2	1	2	-43.2	0.	3.5	4.
80	0	0	0	2	2	1	2	-43.2	0.	3.5	4.
78	0	0	0	2	2	1	2	0.	-93.06	0.	1.
78	0	0	0	2	2	1	2	-93.06	-93.06	1.	4.
80	0	0	0	2	2	1	2	-93.06	-93.06	0.	3.
80	0	0	0	2	2	1	2	-93.06	0.	3.	4.
79	0	0	0	2	2	1	2	-93.06	-136.26	0.	.5
78	0	0	0	2	2	1	2	-93.06	-136.26	0.	.5

134	137	0	0	2	2	1	2	0.	-86.4	0.	.88
134	137	0	0	2	2	1	2	-86.4	0.	.88	1.761
128	0	0	0	2	2	1	2	0.	-125.55	0.	1.19
128	0	0	0	2	2	1	2	-125.55	-154.44	1.19	3.05
128	0	0	0	2	2	1	2	-154.44	0.	3.05	5.08
129	0	0	0	2	2	1	2	0.	-154.44	0.	2.03
129	0	0	0	2	2	1	2	-154.44	-125.55	2.03	3.89
129	0	0	0	2	2	1	2	-125.55	0.	3.89	5.08
32	0	0	0	2	2	1	2	0.	-93.06	0.	1.
36	0	0	0	2	2	1	2	0.	-93.06	0.	1.
33	0	0	0	2	2	1	2	-93.06	0.	0.	1.
37	0	0	0	2	2	1	2	-93.06	0.	0.	1.
32	33	0	0	2	2	1	2	0.	-65.14	0.	.5
36	37	0	0	2	2	1	2	0.	-65.14	0.	.5
32	33	0	0	2	2	1	2	-65.14	0.	.5	1.
36	37	0	0	2	2	1	2	-65.14	0.	.5	1.
46	0	0	0	2	2	1	2	0.	-73.44	0.	2.9
49	0	0	0	2	2	1	2	0.	-73.44	0.	2.9
46	0	0	0	2	2	1	2	-73.44	0.	2.9	4.019
49	0	0	0	2	2	1	2	-73.44	0.	2.9	4.019
47	0	0	0	2	2	1	2	0.	-61.2	0.	1.
50	0	0	0	2	2	1	2	0.	-61.2	0.	1.
47	0	0	0	2	2	1	2	-61.2	0.	1.	2.
50	0	0	0	2	2	1	2	-61.2	0.	1.	2.
131	0	0	0	2	2	1	2	0.	-74.7	0.	.85
131	0	0	0	2	2	1	2	-74.7	-67.5	.85	1.69
131	0	0	0	2	2	1	2	-67.5	0.	1.69	3.284
130	0	0	0	2	2	1	2	0.	-67.5	0.	1.59
130	0	0	0	2	2	1	2	-67.5	-74.7	1.59	2.43
130	0	0	0	2	2	1	2	-74.7	0.	2.43	3.284
132	0	0	0	2	2	1	2	0.	-78.66	0.	.41
132	0	0	0	2	2	1	2	-78.66	-63.63	.41	1.64
132	0	0	0	2	2	1	2	-63.63	0.	1.64	2.056
133	0	0	0	2	2	1	2	0.	-63.63	0.	.41
133	0	0	0	2	2	1	2	-63.63	-78.66	.41	1.64
133	0	0	0	2	2	1	2	-78.66	0.	1.64	2.056
91	0	0	0	2	2	1	2	0.	-24.3	0.	.8
91	0	0	0	2	2	1	2	-24.3	0.	.8	1.061
95	0	0	0	2	2	1	2	0.	-24.3	0.	.261
95	0	0	0	2	2	1	2	-24.3	0.	.261	1.061

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

END

POPIS ZATEZOVACICH STAVU - ZS 8

NAZEV :

8 - UHLI VODOROVNY TLAK

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU V SERII	TYPY PRVNI POSL.	ZATIZENI T1 T2 SM T3 T4 T5	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
148	149	0 0 1 2 1 2	-10.35	0.	0.	2.19
11	0	0 0 1 2 1 2	-24.14	0.	0.	2.19
16	0	0 0 1 2 1 2	-24.14	0.	0.	2.19
150	151	0 0 1 2 1 2	-27.60	0.	0.	2.19
138	0	0 0 1 2 1 2	-29.49	-10.35	0.	5.029
141	0	0 0 1 2 1 2	-29.49	-10.35	0.	5.029
142	143	0 0 1 2 1 2	-114.	-24.14	0.	10.12
145	146	0 0 1 2 1 2	-112.02	-24.14	0.	10.12

181	182	0	0	1	2	1	2	-130.28	-112.01	0.	1.801
144	145	0	0	1	2	1	2	17.72	0.	0.	3.75
172	173	0	0	1	2	1	2	29.49	17.72	0.	2.49
13	0	0	0	1	2	1	2	41.34	0.	0.	3.75
18	0	0	0	1	2	1	2	41.34	0.	0.	3.75
168	169	0	0	1	2	1	2	98.01	41.34	0.	5.14
152	153	0	0	1	2	1	2	47.25	0.	0.	3.75
170	171	0	0	1	2	1	2	112.01	47.25	0.	5.14
134	0	0	0	1	2	1	2	81.43	70.01	0.	1.761
137	0	0	0	1	2	1	2	81.43	70.01	0.	1.761
135	136	0	0	1	2	1	2	130.28	112.01	0.	1.761
149	0	0	0	3	2	1	2	31.04	0.	0.	2.19
148	0	0	0	3	2	1	2	-31.04	0.	0.	2.19
145	0	0	0	3	2	1	2	46.33	31.04	0.	1.56
145	0	0	0	3	2	1	2	31.04	0.	1.56	3.75
144	0	0	0	3	2	1	2	-31.04	0.	1.56	3.75
144	0	0	0	3	2	1	2	-46.33	-31.04	0.	1.56
173	0	0	0	3	2	1	2	58.97	46.33	0.	2.49
172	0	0	0	3	2	1	2	-58.97	-46.33	0.	2.49
141	0	0	0	3	2	1	2	58.97	31.04	0.	5.029
138	0	0	0	3	2	1	2	-58.97	-31.04	0.	5.029
129	0	0	0	3	2	1	2	32.57	58.97	0.	5.08
128	0	0	0	3	2	1	2	-32.57	-58.97	0.	5.08
131	0	0	0	3	2	1	2	28.	19.66	0.	3.284
130	0	0	0	3	2	1	2	-28.	-19.66	0.	3.284
133	0	0	0	3	2	1	2	16.29	28.	0.	2.056
132	0	0	0	3	2	1	2	-16.29	-28.	0.	2.056

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

END

POPIS ZATEZOVACICH STAVU - ZS 9

NAZEV :

9 - VITR

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU	TYPY	ZATIZENI	POCATECNI	KONCOVA	POLOHA	POLOHA				
V SERII			INTENZITA	INTENZITA	ZACATKU	KONCE				
PRVNI	POSL.	T1	T2	SM	T3	T4	T5			
19	0	0	0	1	1	0	2	7.98		
21	0	0	0	1	1	0	2	7.98		
23	0	0	0	1	1	0	2	7.98		
148	149	0	0	1	1	0	2	1.94		
11	0	0	0	1	1	0	2	4.52		
16	0	0	0	1	1	0	2	4.52		
150	151	0	0	1	1	0	2	5.16		
154	155	0	0	1	1	0	2	1.86		
10	0	0	0	1	1	0	2	9.3		
15	0	0	0	1	1	0	2	9.3		
146	147	0	0	1	1	0	2	1.83		
9	0	0	0	1	1	0	2	10.62		
14	0	0	0	1	1	0	2	10.62		
5	0	0	0	1	1	0	2	9.27		
7	0	0	0	1	1	0	2	9.27		
1	0	0	0	1	1	1	2	9.	1.9	7.95
3	0	0	0	1	1	1	2	9.	1.9	7.95

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

END

POPIS ZATEZOVACICH STAVU - ZS 10
 NAZEV :
 10 - BAGHOUSE Y+

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]
 END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]
 CISLO UZLU TYPY ZATIZ. VELIKOST
 V SERII ZATIZENI

PRVNI POSL.	T1	T2	SMER	
68	0	0	0	1 -75.03
70	0	0	0	1 -58.56
79	0	0	0	1 51.61
81	0	0	0	1 68.38
68	0	0	0	3 70.20
70	0	0	0	3 39.30
79	0	0	0	3 80.20
81	0	0	0	3 49.56
68	0	0	0	2 -898.50
70	0	0	0	2 -765.70
79	0	0	0	2 -751.20
81	0	0	0	2 -808.2
68	0	0	1	3 730.00
70	0	0	1	3 -82.41
79	0	0	1	3 138.44
81	0	0	1	3 -660.01

END

POPIS ZATEZOVACICH STAVU - ZS 11
 NAZEV :
 11 - BAGHOUSE Y-

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]
 END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]
 CISLO UZLU TYPY ZATIZ. VELIKOST
 V SERII ZATIZENI

PRVNI POSL.	T1	T2	SMER	
68	0	0	0	1 -13.2
70	0	0	0	1 9.53
79	0	0	0	1 -5.63
81	0	0	0	1 -.31
68	0	0	0	3 -74.8
70	0	0	0	3 -50.07
79	0	0	0	3 -65.8
81	0	0	0	3 -65.85
68	0	0	0	2 -1138.84
70	0	0	0	2 -1176.5
79	0	0	0	2 -550.25
81	0	0	0	2 -578.3
68	0	0	1	3 566.05
70	0	0	1	3 -566.86
79	0	0	1	3 267.89
81	0	0	1	3 -254.63

END

POPIS ZATEZOVACICH STAVU - ZS 12

NAZEV :

12 - BAGHOUSE X+

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

CISLO UZLU TYPY ZATIZ. VELIKOST

V SERII

ZATIZENI

PRVNI POSL. T1 T2 SMER

68	0	0	0	1	40.62
70	0	0	0	1	60.22
79	0	0	0	1	107.32
81	0	0	0	1	118.22
68	0	0	0	3	-6.55
70	0	0	0	3	-3.30
79	0	0	0	3	3.30
81	0	0	0	3	-5.26
68	0	0	0	2	-961.90
70	0	0	0	2	-1009.2
79	0	0	0	2	-618.50
81	0	0	0	2	-735.5
68	0	0	1	3	249.74
70	0	0	1	3	-714.54
79	0	0	1	3	-198.14
81	0	0	1	3	-846.66

END

POPIS ZATEZOVACICH STAVU - ZS 13

NAZEV :

13 - BAGHOUSE X-

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

CISLO UZLU TYPY ZATIZ. VELIKOST

V SERII

ZATIZENI

PRVNI POSL. T1 T2 SMER

68	0	0	0	1	-123.49
70	0	0	0	1	-103.84
79	0	0	0	1	-55.12
81	0	0	0	1	-43.93
68	0	0	0	3	1.98
70	0	0	0	3	-7.54
79	0	0	0	3	11.19
81	0	0	0	3	-11.06
68	0	0	0	2	-1073.30
70	0	0	0	2	-937.60
79	0	0	0	2	-720.00
81	0	0	0	2	-655.9
68	0	0	1	3	1021.87
70	0	0	1	3	39.52
79	0	0	1	3	562.08
81	0	0	1	3	-97.32

END

POPIS ZATEZOVACICH STAVU - ZS 14

NAZEV :

14 - N1 - transformátor 1000 kVA

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU	TYPY	ZATIZENI	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
V SERII						

PRVNI POSL.	T1	T2	SM	T3	T4	T5	
70	0	0	0	2	1	0	1
67	0	0	0	2	1	0	1
25	0	0	0	2	1	0	1

-5.1

-2.9

-5.

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

END

POPIS ZATEZOVACICH STAVU - ZS 15

NAZEV :

15 - N2a - jerabova drazka J1

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU	TYPY	ZATIZENI	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
V SERII						

PRVNI POSL.	T1	T2	SM	T3	T4	T5
31	0	0	0	2	0	0

-53.3

1.

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

END

POPIS ZATEZOVACICH STAVU - ZS 16

NAZEV :

16 - N2b - jerabova drazka J1

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

CISLO UZLU	TYPY	ZATIZ.	VELIKOST
V SERII			

PRVNI POSL.	T1	T2	SMER
26	0	0	0

-53.3

END

POPIS ZATEZOVACICH STAVU - ZS 17

NAZEV :

17 - N3a - nosník N1

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU	TYPY	ZATIZENI	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
V SERII						

PRVNI POSL.	T1	T2	SM	T3	T4	T5
87	0	0	0	2	0	0

-91.

2.71

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

POPIS ZATEZOVACICH STAVU - ZS 18

NAZEV :

18 - N3b - nosník N1

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU V SERII	TYPY ZATIZENI	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
------------------------	------------------	------------------------	----------------------	-------------------	-----------------

PRVNI POSL. T1 T2 SM T3 T4 T5

83	0 0 0 2 0 0 1	-91.		2.71	
----	---------------	------	--	------	--

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

END

POPIS ZATEZOVACICH STAVU - ZS 19

NAZEV :

19 - N4b - VLASTNI TIHA VYSYPEK A PODAVACU

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU V SERII	TYPY ZATIZENI	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
------------------------	------------------	------------------------	----------------------	-------------------	-----------------

PRVNI POSL. T1 T2 SM T3 T4 T5

194	195 0 0 2 0 0 1	-18.		1.551	
195	195 0 0 2 0 0 1	-18.		2.209	
78	80 0 0 2 1 0 1	-0.71			
83	85 0 0 2 1 0 1	-0.71			

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

CISLO UZLU TYPY ZATIZ. VELIKOST

V SERII ZATIZENI

PRVNI POSL. T1 T2 SMER

124	126 0 0 2	-29.
112	114 0 0 2	-39.

END

POPIS ZATEZOVACICH STAVU - ZS 20

NAZEV :

20 - N4c - UHLI V OCELOVYCH VYSYPKACH

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO-PRUTU V SERII	TYPY ZATIZENI	POCATECNI INTENZITA	KONCOVA INTENZITA	POLOHA ZACATKU	POLOHA KONCE
------------------------	------------------	------------------------	----------------------	-------------------	-----------------

PRVNI POSL. T1 T2 SM T3 T4 T5

194	195 0 0 2 0 0 1	-10.5		1.551	
195	195 0 0 2 0 0 1	-10.5		2.209	
78	80 0 0 2 1 0 1	-0.6			
83	85 0 0 2 1 0 1	-0.6			

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

CISLO UZLU TYPY ZATIZ. VELIKOST

V SERII ZATIZENI

PRVNI POSL. T1 T2 SMER

124	126 0 0 2	-17.
112	114 0 0 2	-23

POPIS ZATEZOVACICH STAVU - ZS 21

NAZEV :

N5a - ZASOBNIK VAPENCE - VLASTNI TIHA KONSTRUKCI

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU	TYPY	ZATIZENI	POCATECNI	KONCOVA	POLOHA	POLOHA
V SERII			INTENZITA	INTENZITA	ZACATKU	KONCE

PRVNI POSL. T1 T2 SM T3 T4 T5

31	31	0	0	2	0	0	1	-25.	1.8
5	5	0	0	2	0	0	1	-86.3	6.2
189	189	0	0	2	0	0	1	-41.8	2.15
25	25	0	0	2	0	0	1	-23.	2.1
5	5	0	1	3	0	0	1	-167.8	6.2
189	189	0	1	3	0	0	1	66.3	2.15

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

END

POPIS ZATEZOVACICH STAVU - ZS 22

NAZEV :

N5b - ZASOBNIK VAPENCE - VAPENEC

ZATIZENI PRUTU [kN,kNm], [mm,mm/m]

CISLO PRUTU	TYPY	ZATIZENI	POCATECNI	KONCOVA	POLOHA	POLOHA
V SERII			INTENZITA	INTENZITA	ZACATKU	KONCE

PRVNI POSL. T1 T2 SM T3 T4 T5

5	5	0	0	2	0	0	1	-24.3	6.2
189	189	0	0	2	0	0	1	-9.4	2.15
5	5	0	1	3	0	0	1	-44.2	6.2
189	189	0	1	3	0	0	1	17.5	2.15

END

ZATIZENI UZLU [kN,kNm], [mm, mm/m]

END

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22. kveten 1996 (15:09)

RADA AB - PROSTOROVY MODEL

KOMB-KOMB1

SUPER-PRUTY 1,3

Seznam vyhodnocovanych prutu:

1 -1, 3 -3

VNITRNI SILY V PRUTECH (kN, kNm)

	N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace															
PRUT 3 max N-x																						
x= 7.95	-3777.04	92.44	-19.51	.41	-104.38	313.02	1	2	4	6	8	9	16	21	22							
PRUT 1 min N-x																						
x= .00	-11805.92	-183.71	62.45	1.26	-162.09	605.86	1	2	3	4	5	6	7	13	14	15						
																	17	19	20	21	22	
PRUT 3 max M-z																						
x= 7.95	-7180.83	235.96	-16.66	.18	-89.13	831.87	1	2	4	5	6	7	9	12	16	18						
																	21	22				
PRUT 3 min M-z																						
x= .00	-7919.36	306.99	-16.58	.17	43.15	-1396.11	1	2	4	5	6	7	9	12	16	18						
																	19	20	21	22		

KOMB-KOMB2

SUPER-PRUTY 1,3

Seznam vyhodnocovanych prutu:

1 -1, 3 -3

VNITRNI SILY V PRUTECH (kN, kNm)

	N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace															
PRUT 3 max N-x																						
x= 7.95	-2951.55	98.49	-16.03	.40	-85.74	345.93	1	2	4	6	8	9	16	21	22							
PRUT 1 min N-x																						
x= .00	-10852.00	-177.12	57.76	1.21	-149.95	588.02	1	2	3	4	5	6	7	13	14	15						
																	17	19	20	21	22	
PRUT 3 max M-z																						
x= 7.95	-6355.34	242.00	-13.18	.18	-70.50	864.78	1	2	4	5	6	7	9	12	16	18						
																	21	22				
PRUT 3 min M-z																						
x= .00	-6962.60	313.03	-13.10	.16	34.11	-1411.25	1	2	4	5	6	7	9	12	16	18						
																	19	20	21	22		

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22. kveten 1996 (15:09)

RADA AB - PROSTOROVY MODEL

KOMB-KOMB1

SUPER-PRUTY 2,4

Seznam vyhodnocovanych prutu:

2 -2, 4 -4

VNITRNI SILY V PRUTECH (kN, kNm)

			N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace
PRUT	4	max N-x							
x=	7.95	-4894.47	36.86	-18.09	-0.89	-96.93	197.00		1 2 4 6 15 17
PRUT	2	min N-x							
x=	.00	-13742.10	336.87	55.01	10.30	-148.05	-1427.98		1 2 3 4 5 6 7 8 9 12 14 16 18 19 20 21 22
PRUT	4							max M-z	
x=	7.95	-8305.65	408.69	-43.69	-0.97	-234.02	1557.18		1 2 3 4 5 6 9 12 14 16 18 21 22
PRUT	4							min M-z	
x=	.00	-9240.17	408.50	-40.26	-1.24	104.54	-1694.38		1 2 3 4 5 6 9 12 14 16 18 19 20 21 22

KOMB-KOMB2

SUPER-PRUTY 2,4

Seznam vyhodnocovanych prutu:

2 -2, 4 -4

VNITRNI SILY V PRUTECH (kN, kNm)

			N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace
PRUT	4	max N-x							
x=	7.95	-4004.15	30.06	-14.80	-0.73	-79.31	160.96		1 2 4 6 15 17
PRUT	2	min N-x							
x=	.00	-12747.03	331.03	50.80	9.77	-136.95	-1413.73		1 2 3 4 5 6 7 8 9 12 14 16 18 19 20 21 22
PRUT	4							max M-z	
x=	7.95	-7415.33	401.90	-40.40	-0.81	-216.40	1521.14		1 2 3 4 5 6 9 12 14 16 18 21 22
PRUT	4							min M-z	
x=	.00	-8261.71	401.71	-36.97	-1.08	96.01	-1676.43		1 2 3 4 5 6 9 12 14 16 18 19 20 21 22

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RADA AB - PROSTOROVY MODEL

KOMB-KOMB1

SUPER-PRUTY 5,7

Seznam vyhodnocovanych prutu:

5 -5, 7 -7

VNITRNI SILY V PRUTECH (kN, kNm)

		N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace							
PRUT	7	max N-x													
x=	10.60	-2967.73	-24.84	-29.11	.89	-167.30	86.74	1	2	4	6	8	9	16	
PRUT	5	min N-x													
x=	.00	-9298.13	-360.02	80.22	17.85	-394.72	1572.99	1	2	3	4	5	6	7	13
								19	20	21	22	15	17		
PRUT	5							max M-z							
x=	.00	-9105.25	-379.82	74.08	22.01	-383.40	1684.09	1	2	3	4	5	6	7	8
								16	18	19	20	21	22	13	14
PRUT	5							min M-z							
x=	10.60	-8588.02	-355.79	74.56	22.15	404.62	-2110.86	1	2	3	4	5	6	7	8
								16	18	19	20			13	14

KOMB-KOMB2

SUPER-PRUTY 5,7

Seznam vyhodnocovanych prutu:

5 -5, 7 -7

VNITRNI SILY V PRUTECH (kN, kNm)

		N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace									
PRUT	7	max N-x															
x=	10.60	-2336.96	-9.43	-23.81	1.05	-136.74	178.87	1	2	4	6	8	9	16			
PRUT	5	min N-x															
x=	.00	-8600.76	-343.83	74.52	16.96	-365.60	1498.56	1	2	3	4	5	6	7	13	15	17
								19	20	21	22						
PRUT	5	max M-z															
x=	.00	-8407.89	-363.62	68.38	21.12	-354.27	1609.66	1	2	3	4	5	6	7	8	13	14
								16	18	19	20	21	22				
PRUT	5	min M-z															
x=	10.60	-7959.56	-339.60	68.86	21.26	373.29	-2013.63	1	2	3	4	5	6	7	8	13	14
								16	18	19	20						

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RADA AB - PROSTOROVY MODEL

KOMB-KOMB1

SUPER-PRUTY 6,8,189,190

Seznam vyhodnocovanych prutu:

6 -6, 8 -8, 189 -190

VNITRNI SILY V PRUTECH (kN, kNm)

	N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace
PRUT 190 max N-x							
x= 6.55 -3751.18	89.14	-78.45	-21.35	-370.82	477.64		1 2 4 6 14 15 17
PRUT 6 min N-x							
x= .00 -11331.65	470.12	144.00	59.44	-505.27	-1732.13		1 2 3 4 5 6 7 8 9 12 14 16 18 19 20 21 22
PRUT 190 max M-z							
x= 6.55 -9674.60	517.97	-210.47	-42.54	-922.91	2852.70		1 2 3 4 6 7 9 12 14 16 18 19 20 21 22
PRUT 8 min M-z							
x= .00 -10310.82	515.89	-61.03	-29.15	334.49	-1948.13		1 2 3 4 6 7 9 12 14 16 18 21 22

KOMB-KOMB2

SUPER-PRUTY 6,8,189,190

Seznam vyhodnocovanych prutu:

6 -6, 8 -8, 189 -190

VNITRNI SILY V PRUTECH (kN, kNm)

	N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace
PRUT 190 max N-x							
x= 6.55 -3068.90	72.89	-64.23	-17.47	-303.69	390.54		1 2 4 6 14 15 17
PRUT 6 min N-x							
x= .00 -10538.27	454.79	136.91	55.36	-472.03	-1684.21		1 2 3 4 5 6 7 8 9 12 14 16 18 19 20 21 22
PRUT 190 max M-z							
x= 6.55 -8992.32	501.72	-196.26	-38.66	-855.78	2765.60		1 2 3 4 6 7 9 12 14 16 18 19 20 21 22
PRUT 8 min M-z							
x= .00 -9536.99	499.63	-54.71	-26.54	307.22	-1895.74		1 2 3 4 6 7 9 12 14 16 18 21 22

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RADA AB - PROSTOROVY MODEL

KOMB-KOMB1

SUPER-PRUTY 9-11,14-16

Seznam vyhodnocovanych prutu:

9 -11, 14 -16

VNITRNI SILY V PRUTECH (kN, kNm)

		N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace
PRUT	16	max N-x						
x=	3.58	-664.78	160.35	-116.86	-18.39	-210.15	139.36	1 2 4 6 8 9 16 19
PRUT	9	min N-x						
x=	.00	-5786.22	-197.37	66.87	23.90	-215.95	652.71	1 2 3 4 5 6 7 13 16 18 19 20
PRUT	14						max M-z	
x=	.00	-4588.15	-278.97	-46.81	-14.87	161.36	851.39	1 2 3 4 5 6 7 8 12 16 18 19 20 21 22
PRUT	10						min M-z	
x=	3.25	-4106.71	-242.79	126.33	-141.22	332.49	-849.22	1 2 3 4 5 6 7 8 9 12 14 15 18 19 20 21 22

KOMB-KOMB2

SUPER-PRUTY 9-11,14-16

Seznam vyhodnocovanych prutu:

9 -11, 14 -16

VNITRNI SILY V PRUTECH (kN, kNm)

		N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace
PRUT	16	max N-x						
x=	3.58	-533.58	170.48	-91.48	-13.84	-164.75	166.14	1 2 4 6 8 9 16 19
PRUT	9	min N-x						
x=	.00	-5362.16	-187.22	60.07	23.92	-197.07	614.15	1 2 3 4 5 6 7 13 16 18 19 20
PRUT	14						max M-z	
x=	.00	-4170.08	-268.18	-41.66	-14.71	146.26	811.36	1 2 3 4 5 6 7 8 12 16 18 19 20 21 22
PRUT	10						min M-z	
x=	3.25	-3766.99	-235.60	111.17	-134.46	299.83	-824.89	1 2 3 4 5 6 7 8 9 12 14 15 18 19 20 21 22

PONTEX s.r.o., PRAHA, Bezova 1658

str.

DEFOR plus V94 (c) FEM consulting Brno 3/04 1996

list 7

22. kveten 1996 (15:09)

RADA AB - PROSTOROVY MODEL

KOMB-KOMB1

SUPER-PRUTY 12,13,17,18,168,169

Seznam vyhodnocovanych prutu:

12 -13, 17 -18, 168 -169

VNITRNI SILY V PRUTECH (kN, kNm)

		N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace
PRUT	18	max N-x						
x=	5.14	-892.43	37.99	-63.79	5.75	-221.73	196.68	1 2 4 6 14 17 21 22
PRUT	12	min N-x						
x=	.00	-6311.44	-28.10	458.43	-10.64	-76.80	-469.35	1 2 3 4 5 6 7 8 9 12 16 18 19 20
PRUT	18	max M-z						
x=	5.14	-1453.94	153.94	-121.81	12.18	-424.28	715.22	1 2 3 4 5 6 7 9 16 18 19 20 21 22
PRUT	168	min M-z						
x=	.00	-2329.09	610.80	172.47	-7.72	-584.62	-1441.50	1 2 3 4 5 6 7 8 9 16 18 19 20

KOMB-KOMB2

SUPER-PRUTY 12,13,17,18,168,169

Seznam vyhodnocovanych prutu:

12 -13, 17 -18, 168 -169

VNITRNI SILY V PRUTECH (kN, kNm)

		N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace
PRUT	18	max N-x						
x=	5.14	-730.09	31.08	-52.25	4.74	-181.60	160.87	1 2 4 6 14 17 21 22
PRUT	12	min N-x						
x=	.00	-5866.77	-29.98	420.70	-11.26	-71.58	-444.15	1 2 3 4 5 6 7 8 9 12 16 18 19 20
PRUT	13	max M-z						
x=	5.14	-1500.32	150.80	44.77	-20.84	196.26	680.06	1 2 3 4 5 6 7 9 16 18 19 20
PRUT	168	min M-z						
x=	.00	-2062.34	604.73	158.84	-5.78	-537.94	-1409.66	1 2 3 4 5 6 7 8 9 16 18 19 20

KONTROLA VSTUPNICH DAT : ► P O K R A C U J

O P R A V A

Zatizeni						Materialy
M [kNm]	313.02	605.86	831.87	-1396.11	0.00	Beton B 20
N [kN]	-3777.04	-11805.90	-7180.83	-7919.36	0.00	Ocel g
M [kNm]	0.00	0.00	0.00	0.00		
N [kN]	0.00	0.00	0.00	0.00		

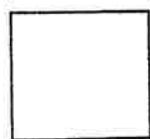
Geometrie [m]

Vyztuzeni

Vyztuz he[i] (m)

b = 1.00

P1,3



h = 1.30

9φ 18 + 9φ 12 0.050
 9φ 12 + 9φ 18 1.250

Soucinitele gama

GamaB = 1.000

GamaS = 1.000

GamaU = 0.985

Stupne vyztuzeni

Misc min = 0.0008 Mist min = 0.0017
 Misc max = 0.0300 Mist max = 0.0300

→:Posuv ┘:Vyber ESC:Skonci

KONTROLA VSTUPNICH DAT : ► P O K R A C U J

O P R A V A

Zatizeni						Materialy
M [kNm]	197.00	-1427.98	1557.18	-1694.38	0.00	Beton B 20
N [kN]	-4894.47	-13742.10	-8305.65	-9240.17	0.00	Ocel g
M [kNm]	0.00	0.00	0.00	0.00		
N [kN]	0.00	0.00	0.00	0.00		

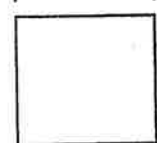
Geometrie [m]

Vyztuzeni

Vyztuz he[i] (m)

b = 1.00

P2,4



h = 1.30

11φ 10 + 11φ 28 0.050
 11φ 10 + 11φ 28 1.250

Soucinitele gama

GamaB = 1.000

GamaS = 1.000

GamaU = 0.985

Stupne vyztuzeni

Misc min = 0.0008 Mist min = 0.0016
 Misc max = 0.0300 Mist max = 0.0300

→:Posuv ┘:Vyber ESC:Skonci

KONTROLA VSTUPNICH DAT : ► P O K R A C U J

O P R A V A

Zatizeni						Materialy
M [kNm]	86.74	1572.99	1684.09	-2110.86	0.00	Beton B 20
N [kN]	-2967.73	-9298.13	-9105.25	-8588.02	0.00	Ocel g
M [kNm]	0.00	0.00	0.00	0.00		
N [kN]	0.00	0.00	0.00	0.00		

Geometrie [m]

b = 1.00

P5,7

h = 1.30

Vyztuzeni

Vyztuz

he[i] (m)

5φ 12 + 5φ 18	0.050
5φ 12 + 5φ 18	1.250

Soucinitele gama

GamaB = 1.000

GamaS = 1.000

GamaU = 0.985

Stupne vyztuzeni

Misc min = 0.0008 Mist min = 0.0016

Misc max = 0.0300 Mist max = 0.0300

→:Posuv —:Vyber ESC:Skonci

KONTROLA VSTUPNICH DAT : ► P O K R A C U J

O P R A V A

Zatizeni						Materialy
M [kNm]	477.64	-1732.13	2852.70	-1948.13	0.00	Beton B 20
N [kN]	-3751.18	-11331.70	-9674.60	-10310.80	0.00	Ocel
M [kNm]	0.00	0.00	0.00	0.00		
N [kN]	0.00	0.00	0.00	0.00		

Geometrie [m]

b = 1.00

P6-8, 189-190

h = 1.30

Vyztuzeni

Vyztuz

he[i] (m)

6φ 10 + 6φ 28	0.050
6φ 10 + 6φ 28	1.250

Soucinitele gama

GamaB = 1.000

GamaS = 1.000

GamaU = 0.985

Stupne vyztuzeni

Misc min = 0.0008 Mist min = 0.0016

Misc max = 0.0300 Mist max = 0.0300

→:Posuv —:Vyber ESC:Skonci

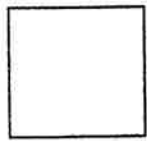
KONTROLA VSTUPNICH DAT : ► P O K R A C U J

O P R A V A

Zatizeni						Materialy
M [kNm]	139.36	652.71	851.39	-849.22	0.00	Beton B 20
N [kN]	-664.78	-5786.22	-4588.15	-4106.71	0.00	Ocel g
M [kNm]	0.00	0.00	0.00	0.00		
N [kN]	0.00	0.00	0.00	0.00		

Geometrie [m]

b = 0.70



h = 1.00

P 9-11, 14-16

Vyztuzeni

Vyztuz

he[i] (m)

5φ 20	0.050
2φ 20	0.275
2φ 20	0.500
2φ 20	0.725
5φ 20	0.950

Soucinitele gama

GamaB =1.000

GamaS=1.000

GamaU=0.981

Stupne vyztuzeni

Misc min = 0.0008 Mist min = 0.0016
 Misc max = 0.0300 Mist max = 0.0300

→:Posuv ↵:Vyber ESC:Skonci

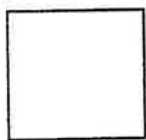
KONTROLA VSTUPNICH DAT : ► P O K R A C U J

O P R A V A

Zatizeni						Materialy
M [kNm]	196.68	-469.35	715.22	-1441.50	0.00	Beton B 20
N [kN]	-892.43	-6311.44	-1453.94	-2392.09	0.00	Ocel g
M [kNm]	0.00	0.00	0.00	0.00		
N [kN]	0.00	0.00	0.00	0.00		

Geometrie [m]

b = 0.70



h = 1.00

P 12, 13, 17, 18, 168, 169

Vyztuzeni

Vyztuz

he[i] (m)

5φ 20	0.050
2φ 20	0.275
2φ 20	0.500
2φ 20	0.725
5φ 20	0.950

Soucinitele gama

GamaB =1.000

GamaS=1.000

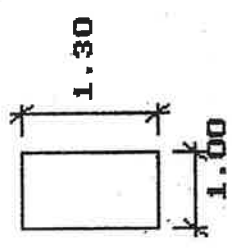
GamaU=0.981

Stupne vyztuzeni

Misc min = 0.0008 Mist min = 0.0016
 Misc max = 0.0300 Mist max = 0.0300

→:Posuv ↵:Vyber ESC:Skonci

P1,3

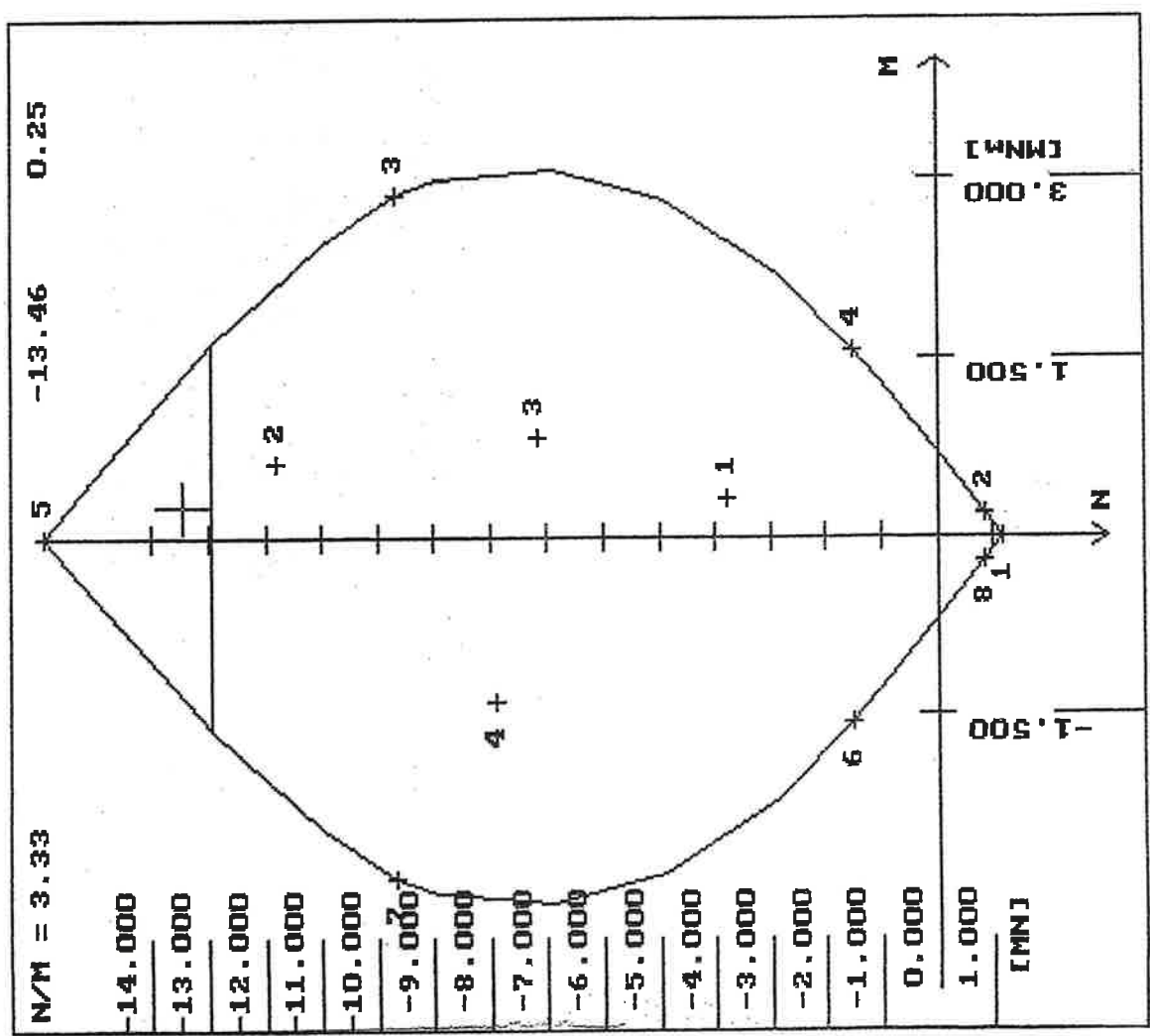


ROZPOČET PRÁCE
VÝKRESNÍ (mm2)
As1: 3308.1 As2: 3308.1

1	-0.0000	1.1733
2	0.1877	0.8604
3	2.8554	-9.6479
4	1.5760	-1.4950
5	0.0000	-15.901
6	-1.5761	-1.4950
7	-2.8554	-9.6479
8	-0.1877	0.8604

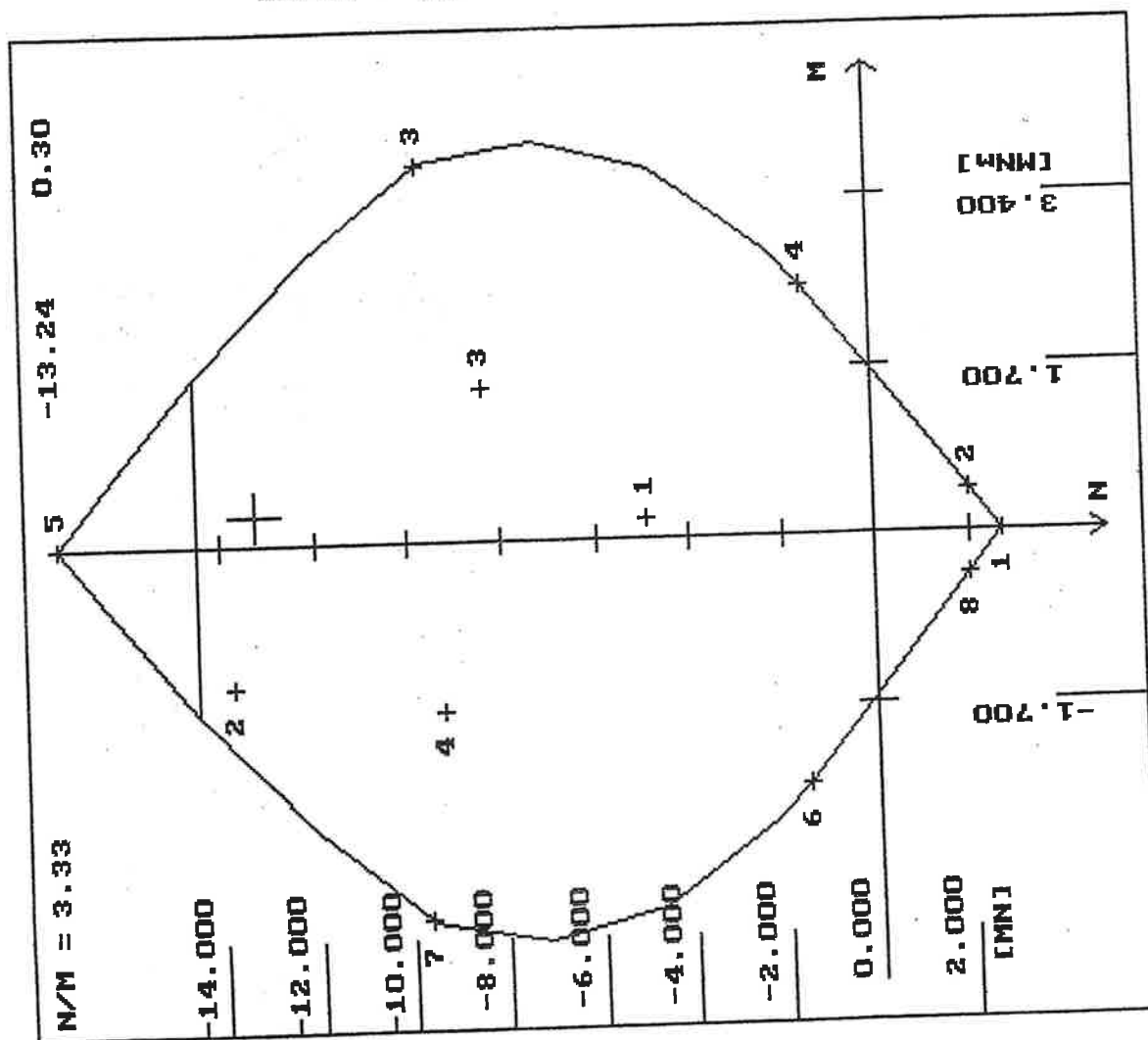
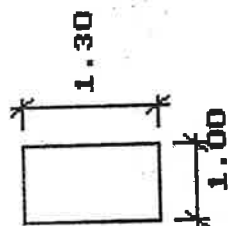
1	0.3130	-3.7770
2	0.6059	-11.805
3	0.8319	-7.1808
4	-1.3961	-7.9194

Výhodově



PgDn -> <- PgUp <- -> Esc KONEC F1 BM/COL. F2 BOD

72,4



SECTION B-B

HEIGHT

As1: 7637.2 As2: 7637.2

HEIGHT

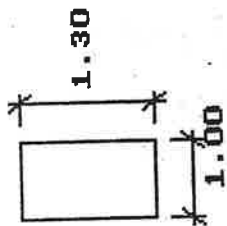
1	-0.0000	2.7087
2	0.4334	1.9864
3	3.7766	-9.6479
4	2.4973	-1.4950
5	0.0000	-17.437
6	-2.4973	-1.4950
7	-3.7766	-9.6479
8	-0.4334	1.9864

BODY

1	0.1970	-4.8945
2	-1.4280	-13.742
3	1.5572	-8.3057
4	-1.6944	-9.2402

WAVE

PgDn → <← PgUp <— → Esc KONEC F1 BW/COL. F2 BOD



SECRET

U57H17FN (0002)

As1:1837.8 As2:1837.8

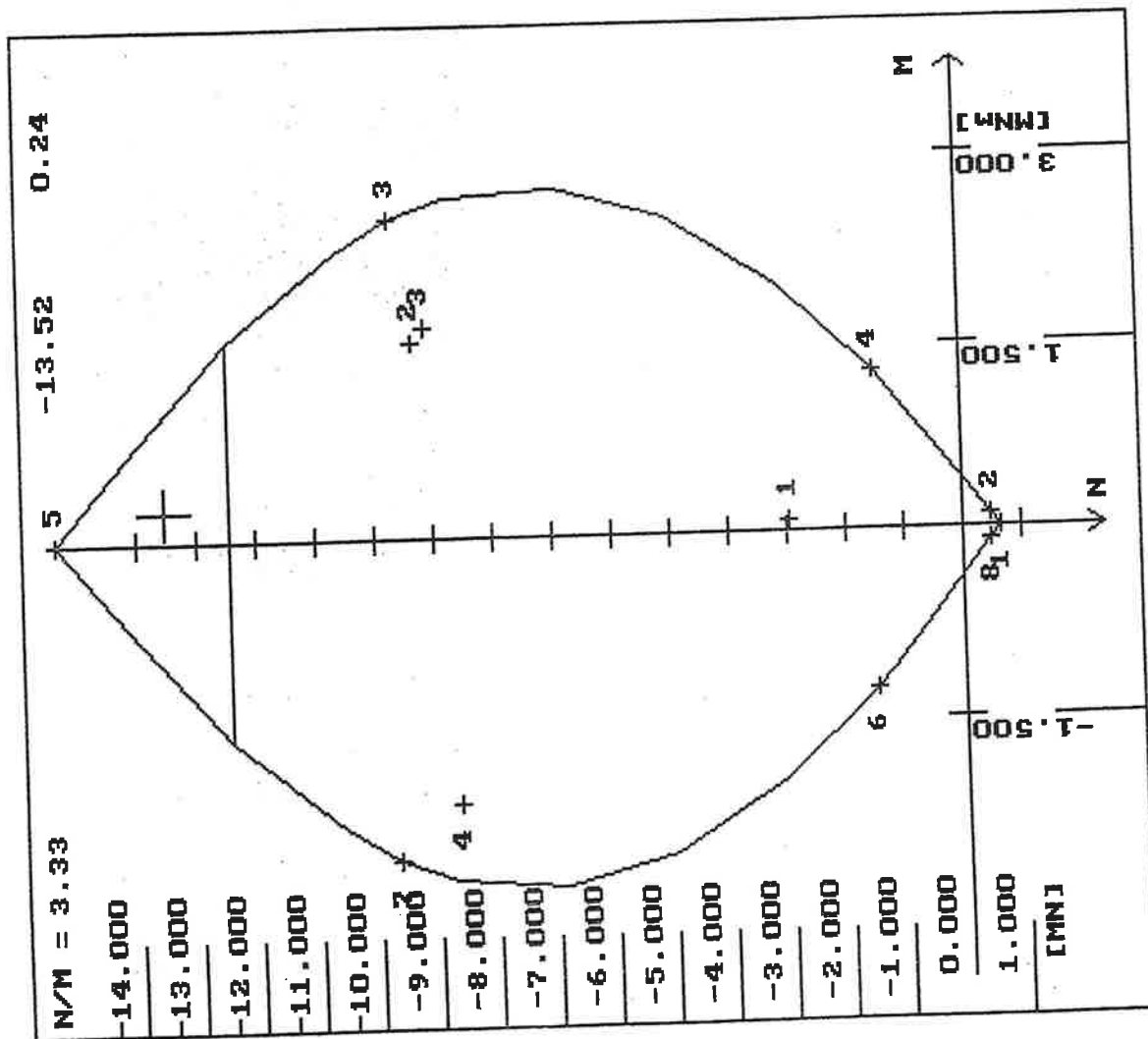
EXPLORE

1	-0.0000	0.6518
2	0.1043	0.4780
3	2.5425	-9.6479
4	1.2632	-1.4950
5	0.0000	-15.380
6	-1.2632	-1.4950
7	-2.5425	-9.6479
8	-0.1043	0.4780

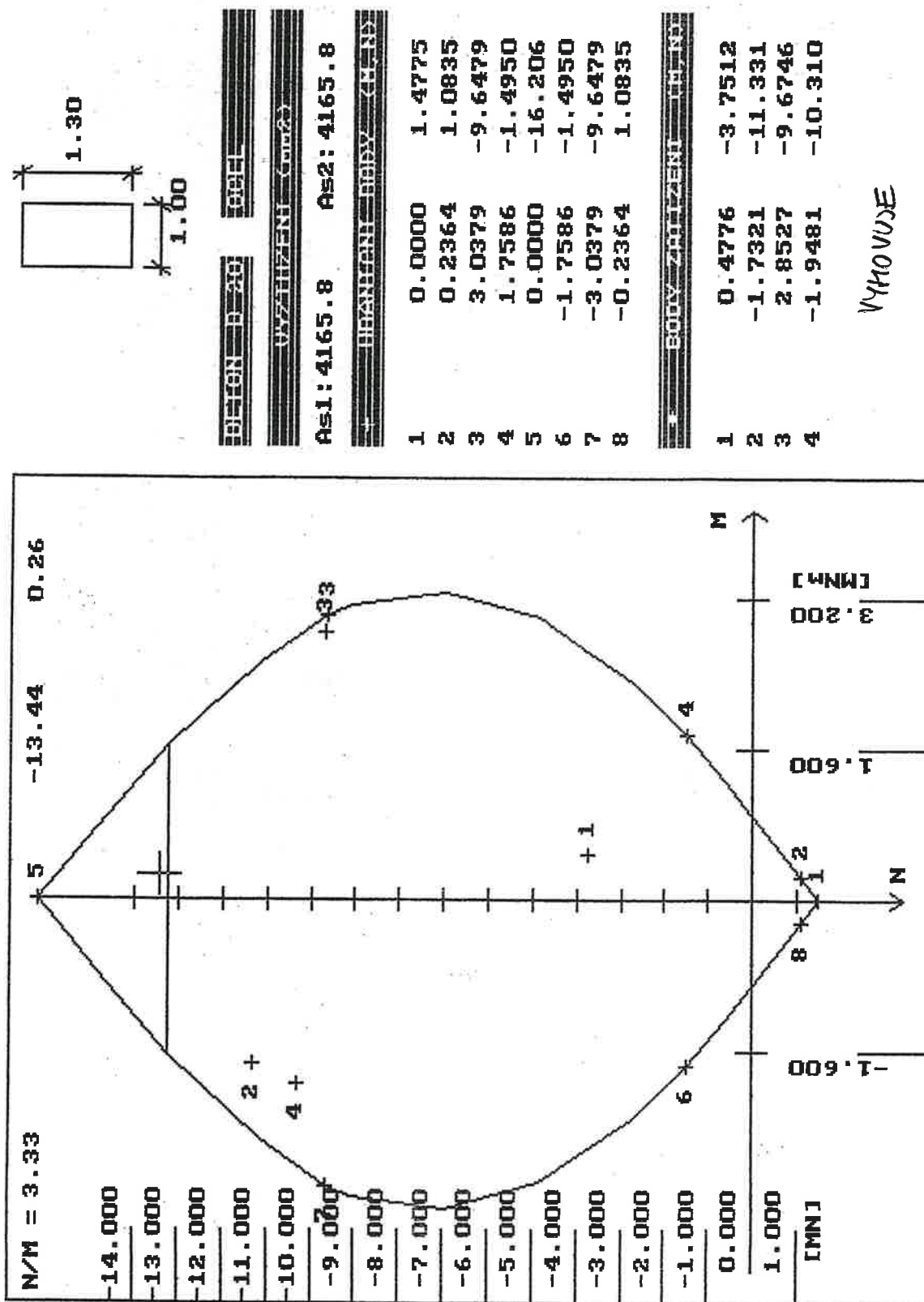
DATE: 08/07/2009
TIME: 08:00 AM
LOCATION: 1000 N. GARDEN ST., AUSTIN, TX 78701

1	0.0867	-2.9677
2	1.5730	-9.2981
3	1.6841	-9.1052
4	-2.1109	-8.5880

30000444

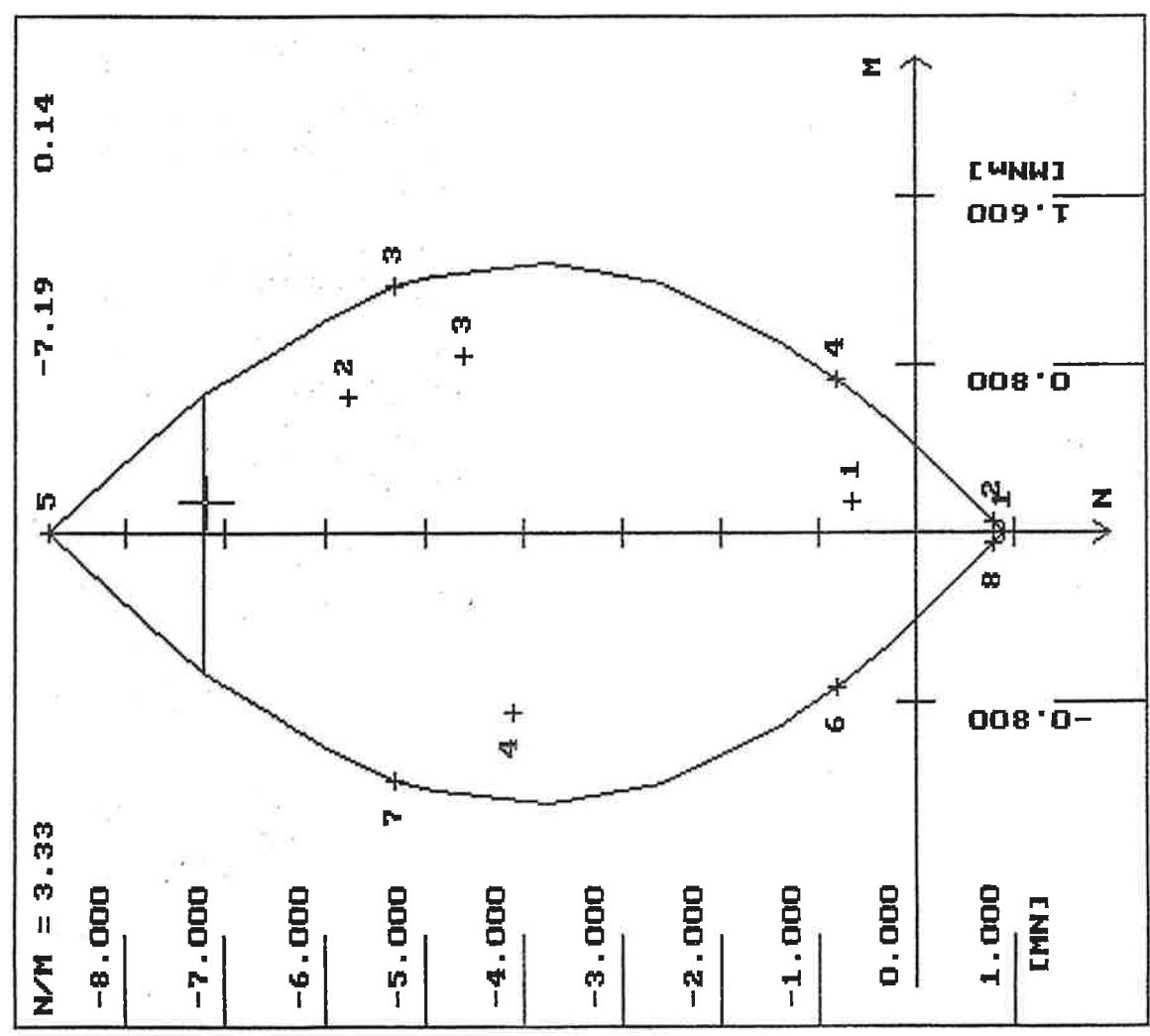
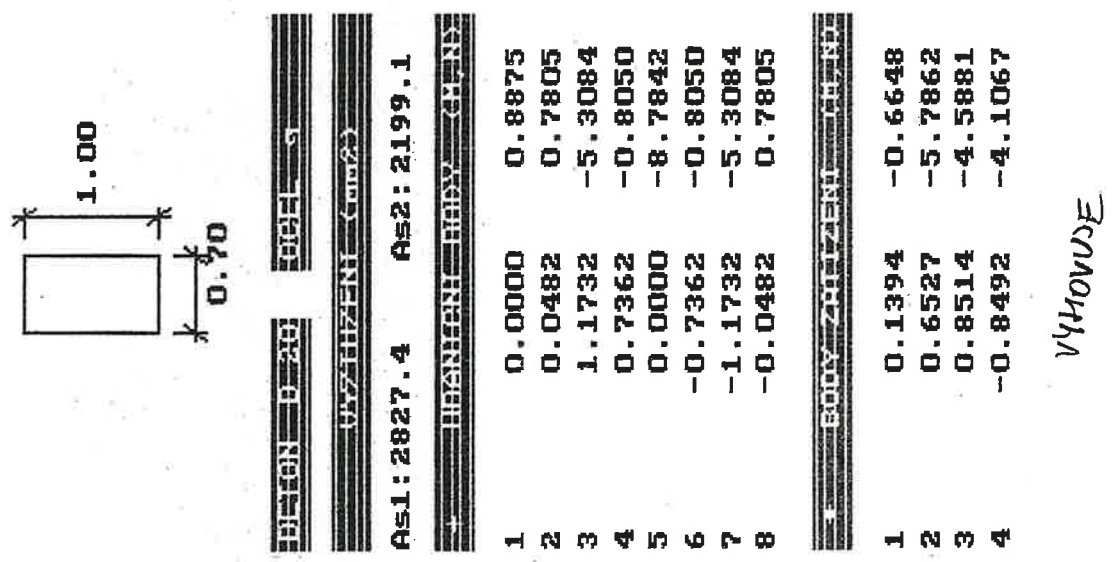


PG-8, 189-190



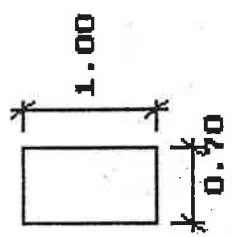
PGDn → ← PGUp ← → Esc KONEC F1 BM/COL. F2 BOD

79-11, 14-16



PgDn -> <- PgUp <- -> Esc KONEC F1 BW/COL. F2 BOD

P12, 13, 17, 18, 168, 169

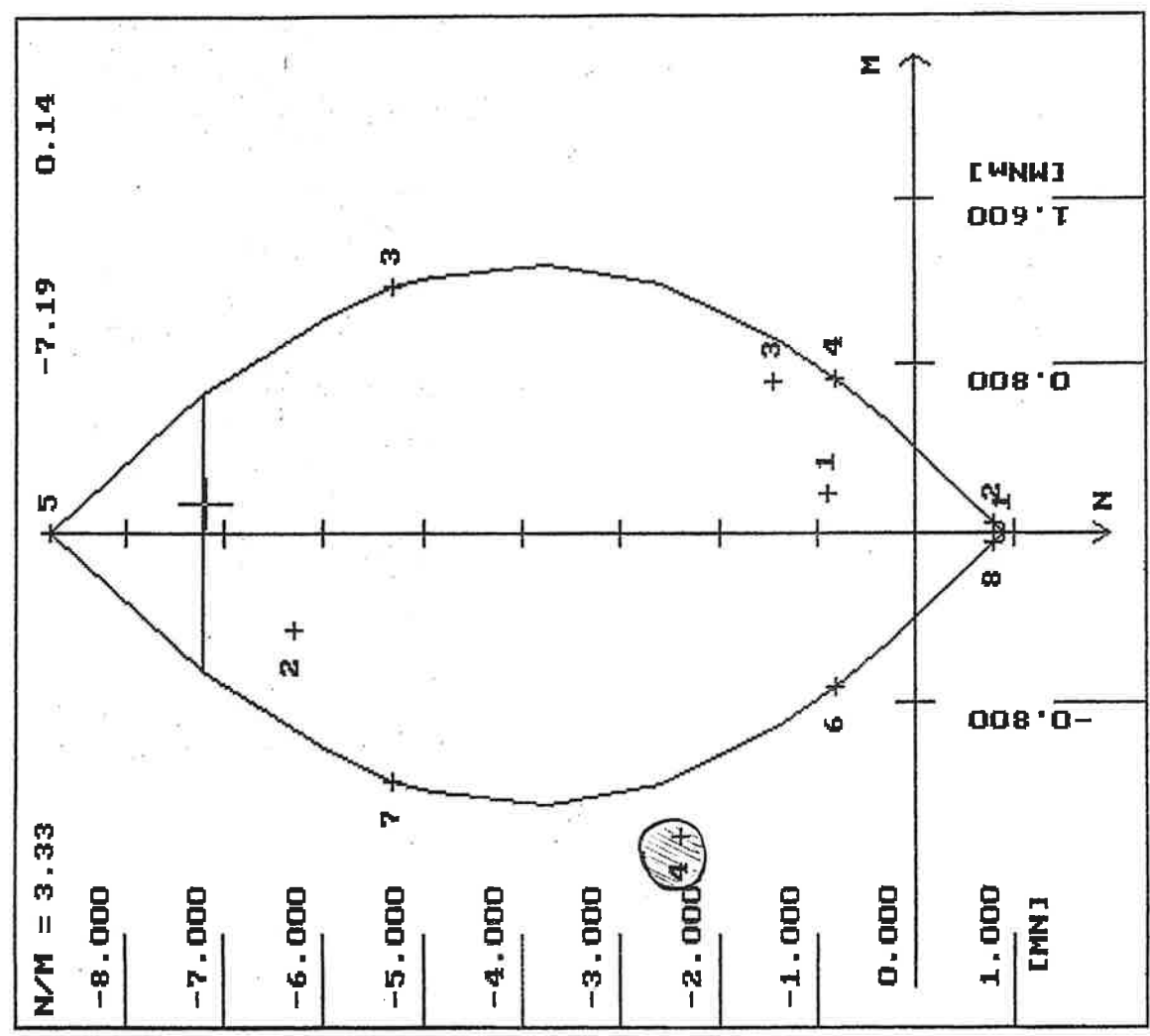


SECTION 9-250
COLUMN
As1: 2827.4 As2: 2199.1

1	0.0000	0.8875
2	0.0482	0.7805
3	1.1732	-5.3084
4	0.7362	-0.8050
5	0.0000	-8.7842
6	-0.7362	-0.8050
7	-1.1732	-5.3084
8	-0.0482	0.7805

1	0.1967	-0.8924
2	-0.4694	-6.3114
3	0.7152	-1.4539
4	-1.4415	-2.3921

NOT APPROVED



PgDn -> PgUp <- -> Esc KONEC F1 BM/COL. F2 BOD

RADA AB - PROSTOROVY MODEL

KOMB-KOMB1

SUPER-PRUT 168

VNITRNI SILY V PRUTECH (kN, kNm)

	N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace
PRUT 168, x-lok = .00							
ZS. 01	-707.37	30.52	41.41	-6.04	-143.28	-145.84	
ZS. 02	-386.33	2.05	22.03	-3.12	-73.60	-17.30	
ZS. 03	-124.80	14.63	6.12	-.92	-21.27	-55.75	
ZS. 04	-234.56	-2.93	2.94	-.32	-10.46	8.55	
ZS. 05	-94.72	12.92	3.20	-.23	-11.17	-41.61	
ZS. 06	-5.51	.73	1.75	-.24	-6.07	-4.61	
ZS. 07	-300.89	41.45	51.43	-3.28	-179.72	-315.42	
ZS. 08	-105.95	341.93	8.84	7.20	-21.87	-474.74	
ZS. 09	-18.96	4.33	1.40	-.51	-4.93	-23.35	
ZS. 10	-637.68	-24.20	1.19	.70	-3.46	113.77	
ZS. 11	-1052.23	-38.63	-.35	.29	2.71	145.38	BAGHOUSE
ZS. 12	-971.31	-27.11	3.86	-.77	-12.30	69.03	
ZS. 13	-728.58	-35.51	-2.76	1.65	10.65	186.51	
ZS. 14	.03	-.03	-.02	.02	.09	.20	
ZS. 15	-.29	.23	-.03	-.04	.10	-1.39	
ZS. 16	.16	.37	-.23	-.14	.82	-2.42	
ZS. 17	-.48	.04	.13	.04	-.44	-.21	
ZS. 18	-3.06	.97	.81	-.33	-2.83	-6.29	
ZS. 19	-.45	.25	-.31	.03	1.13	-1.65	
ZS. 20	-.44	.17	-.13	.01	.48	-1.11	
ZS. 21	.18	-.09	-.12	.12	.45	.61	
ZS. 22	.08	-.06	-.02	.04	.08	.40	
max N-x	-1466.64	33.59	74.51	-10.65	-255.15	-176.34	1 2 4 6 14 16 21 22
min N-x	-3381.81	572.01	172.34	-7.33	-582.71	-1294.99	1 2 3 4 5 6 7 8 9 11
							15 18 19 20
max M-z	-2195.39	-2.32	71.99	-8.85	-245.41	12.83	1 2 4 6 13 14 21 22
min M-z	-2329.09	610.80	172.47	-7.72	-584.62	-1441.50	1 2 3 4 5 6 7 8 9 16
							18 19 20

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PROVEDENÍ PROJEKTU JE NA STRANĚ BEZPEČNOSTI, NEBOŽ VĚCHNA
 ZATÍŽENÍ NADHODILA KRÁTKODOBÁ ÚSOV UVAŽOVÁNA SE SOUČINITELEM
 KONSTRUKCE JE 1.0

V DALŠÍM KROKU POSOUZENÍ PRUTU 168 BUDE MUŽITO
KOEFICIENT DANE ČSN 43 6203 PRO UVAŽOVÁNÍ VÍCE NEŽ 3
NARODILNÍCH KRÁTKODOBÝCH ZATÍŽENÍ JE SOUČINITELN $\psi_c = 0,8$.

ROVNĚŽ BUDE ZOHLEDNĚNO PŮSOBENÍ ZH NA JEDNOTLIVÉ SLOŽKY
 ZATÍŽENÍ, TAKŽE POKUD STÁLÉHO ZATÍŽENÍ ZH BUDE UVAŽOVÁNA
 1 4012 PŮSOBÍ PŘÍZNIVĚ (PRO STÁLÉ ZATÍŽENÍ JE TENTO PŘEDPOKLAD
 OPERÁVNOST).

PŘEHLED ZATĚŽOVACÍCH STAVŮ

- 1 - VLASTNI TIHA PRUTU
- 2 - DALSI STALE
- 3 - UZITNE
- 4 - REAKCE VAZNIKU
- 5 - ZAUHLOVACI PASY
- 6 - OCELOVA CAST ZASOBNIKU
- 7 - UHLI SVISLY TLAK
- 8 - UHLI VODOROVNY TLAK
- 9 - VITR
- 10 - BAGHOUSE Y+
- 11 - BAGHOUSE Y-
- 12 - BAGHOUSE X+
- 13 - BAGHOUSE X-
- 14 - N1 - transformátor 1000 kVA
- 15 - N2a - jerabova drážka J1
- 16 - N2b - jerabova drážka J1
- 17 - N3a - nosník N1
- 18 - N3b - nosník N1
- 19 - N4b - VLASTNI TIHA VYSYPEK A PODAVACU
- 20 - N4c - UHLI V OCELOVÝCH VYSYPKÁCH
- 21 - N5a - ZASOBNIK VAPENCE - VLASTNI TIHA KONSTRUKCI
- 22 - N5b - ZASOBNIK VAPENCE - VAPENEC

Číslo ZS	Součinitel γ_f	Číslo ZS pro výp. kombinací	Součinitel kombinace ψ_c	$\gamma_f \cdot \psi_c$
1	1.1/0.9	0	1.0	1.1
2	1.1/0.9	0	1.0	1.1
3	1.2	1	0.8	0.96
4	1.1/0.9	0	1.0	1.1
5	1.2	2	0.8	0.96
6	1.1/0.9	0	1.0	1.1
7	1.4	3	0.8	1.12
8	1.4	4	0.8	1.12
9	1.3	5	0.8	1.04
10	1.0	6	0.8	0.8
11	1.0	6	0.8	0.8
12	1.0	6	0.8	0.8
13	1.0	6	0.8	0.8
14	1.1	7	1.0	1.1
15	1.1	8	0.8	1.1
16	1.1	8	0.8	1.1
17	1.1	9	0.8	1.1
18	1.1	9	0.8	1.1
19	1.1	10	1.0	1.1
20	1.4	11	0.8	1.12
21	1.1	12	1.0	1.1
22	1.4	13	0.8	1.12

PONTEX s.r.o., PRAHA, Bezova 1658

str.

DEFOR plus V94 (c) FEM consulting Brno 3/04 1996
24. kveten 1996 (15:15)

list 2

EXTRÉMNÍ ÚČINKY
ZATÍŽENÍ (KOMBINACE)

RADA AB - PROSTOROVY MODEL

KOMB-KOMB1

SUPER-PRUTY 12,13,17,18,168,169

Séznam vyhodnocovaných prutu:
168 -169

VNITRNÍ SILY V PRUTECH (kN, kNm)

		N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace											
PRUT	169	max N-x																	
x=	5.14	-1152.04	35.01	-70.67	8.35	-110.06	1.17	1	2	4	6	14	21	22					
PRUT	168	min N-x																	
x=	.00	-2999.71	464.61	152.96	-8.08	-517.87	-1073.07	1	2	3	4	5	6	7	8	9	11		
								15	18	19	20								
PRUT	169						max M-z												
x=	5.14	-1399.59	42.56	-83.93	-1.29	-131.61	313.60	1	2	3	4	5	6	8	14	15	21		
								22											
PRUT	168						min M-z												
x=	.00	-2157.44	495.67	153.02	-8.42	-519.24	-1190.50	1	2	3	4	5	6	7	8	9	16		
								18	19	20									

Účinky zatěžovacích stavů s využitím součinitele kombinace $\psi_c = 0.80$ pro nahodilá
krátkodobá zatížení (více než 3 působící krátkodobá nahodilá zatížení).

účinky od BAGHOUSE

PONTEX s.r.o., PRAHA, Bezova 1658

str.

DEFOR plus V94 (c) FEM consulting Brno 3/04 1996
27. kveten 1996 (10:50)

list 1

RADA AB - PROSTOROVY MODEL

KOMB-1

SUPER-1

VNITRNI SILY V PRUTECH (kN, kNm)

	N-x	Q-y	Q-z	M-x	M-y	M-z	Kombinace			
PRUT 168, x-lok = .00										
ZS. 01	-549.74	-20.03	.47	.21	-.94	81.44				
ZS. 02	-307.15	-11.46	.05	.16	.26	45.86				
ZS. 03	-12.36	-.44	-.03	.02	.10	1.74				
ZS. 04	12.36	.44	.03	-.02	-.10	-1.74				
ZS. 05	6.70	.28	.04	.03	-.18	-.34				
ZS. 06	-18.23	-.67	.01	.01	.00	2.74				
ZS. 07	195.19	6.90	.77	.22	-3.15	-14.71				
ZS. 08	-195.20	-6.90	-.77	-.22	3.14	14.71				
ZS. 09	-117.97	3.91	3.15	-1.27	-10.89	-55.71				
ZS. 10	117.63	-3.90	-3.14	1.27	10.85	55.57				
max N-x	-378.34	-13.94	1.14	.40	-3.68	68.01	1	4	5	7
min N-x	-936.16	-34.12	-.13	.17	1.83	127.51	1	2	3	6 8
max M-z	-685.90	-31.71	-2.02	1.36	8.00	160.19	1	2	3	6 10
min M-z	-628.87	-16.33	3.04	-.79	-9.88	35.21	1	4	5	9

Účinky zatížení od baghouse - kombinace jednotlivých složek.

POPIS ZATEZOVACICH STAVU

- 1 - BAGHOUSE - STALE
- 2 - BAGHOUSE - UZITNE
- 3 - BAGHOUSE - VENTILATOR +
- 4 - BAGHOUSE - VENTILATOR -
- 5 - BAGHOUSE - DEMAG
- 6 - BAGHOUSE - SNIH
- 7 - BAGHOUSE - VITR Y+
- 8 - BAGHOUSE - VITR Y-
- 9 - BAGHOUSE - VITR X+
- 10 - BAGHOUSE - VITR X-

DEFINITIVNÍ POSOUZENÍ PRŮTV 168, $\kappa = 0,0$

EXTRÉMNÍ ÚČINKY OD ZATÍŽENÍ (KLONĚ ZASTAVUJE) VČETNĚ SOUČINITELŮ KOMBINACE ψ_c :

$$\min M_z = -1190,5 \text{ kN}\cdot\text{m} \quad N = -2157,4 \text{ kN}$$

ÚČINKY OD ZATÍŽENÍ ZASTAVUJE VČETNĚ SOUČINITELŮ KOMBINACE ψ_c :

$$\min M_z = 35,2 \text{ kN}\cdot\text{m} \quad N = -628,9 \text{ kN}$$

↓

$$\min M_z = -1190,5 + 35,2 = -1155,3 \text{ kN}\cdot\text{m}$$

$$N = -2157,4 - 628,9 = -2786,3 \text{ kN}$$

KONTROLA VSTUPNICH DAT : ▶ P O K R A C U J

O P R A V A

		Zatizeni				Materialy	
M [kNm]	-1155.30	0.00	0.00	0.00	0.00	Beton B 20	
N [kN]	-2786.30	0.00	0.00	0.00	0.00	Ocel g	
M [kNm]	0.00	0.00	0.00	0.00			
N [kN]	0.00	0.00	0.00	0.00			

Geometrie [m]

Vyztuzeni

Vyztuz he[i] (m)

b = 0.70

Plat 168, $\lambda = 0,0$

min M_z , odp. U

h = 1.00

5φ 20	0.050
2φ 20	0.275
2φ 20	0.500
2φ 20	0.725
5φ 20	0.950

Soucinitele gama

GamaB = 1.000

GamaS = 1.000

GamaU = 0.981

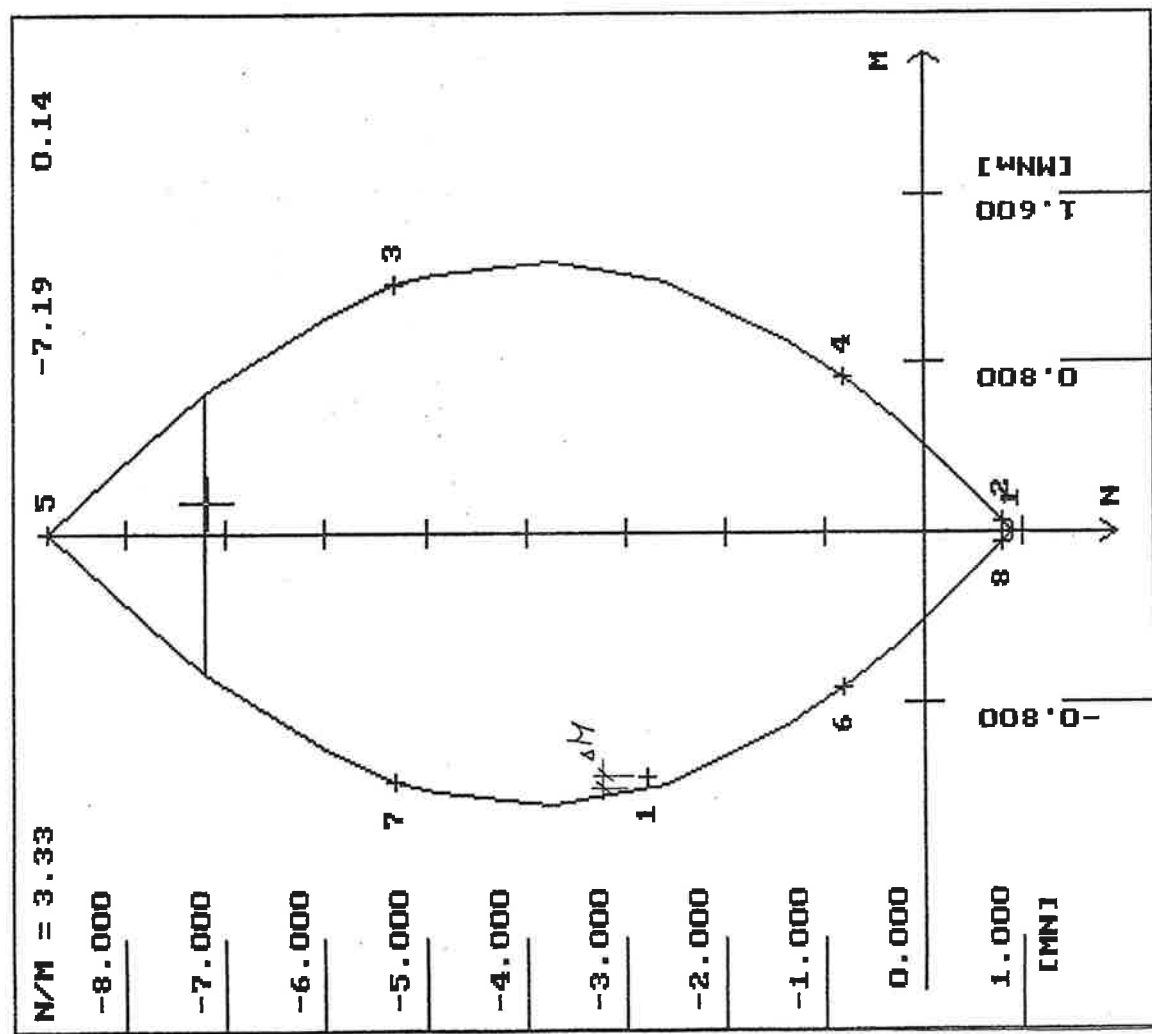
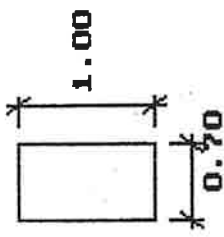
Stupne vyztuzeni

Misc min = 0.0008 Mist min = 0.0016

Misc max = 0.0300 Mist max = 0.0300

→: Posuv —: Vyber ESC: Skonci

Pr. 16b, x=0.90



DESIGN POINT	DESIGN POINT
1	2
3	4
5	6
7	8

As1: 2827.4 As2: 2199.1

1	2	3	4	5	6	7	8
0.0000	0.0482	1.1732	0.7362	0.0000	-0.7362	-1.1732	-0.0482
0.8875	0.7805	-5.3084	-0.8050	-8.7842	-0.8050	-5.3084	0.7805

1	2
min H_z	alp. N
-1.1553	-2.7863

Wyhovuje
 $\Delta M \approx 55 \text{ kN.m}$