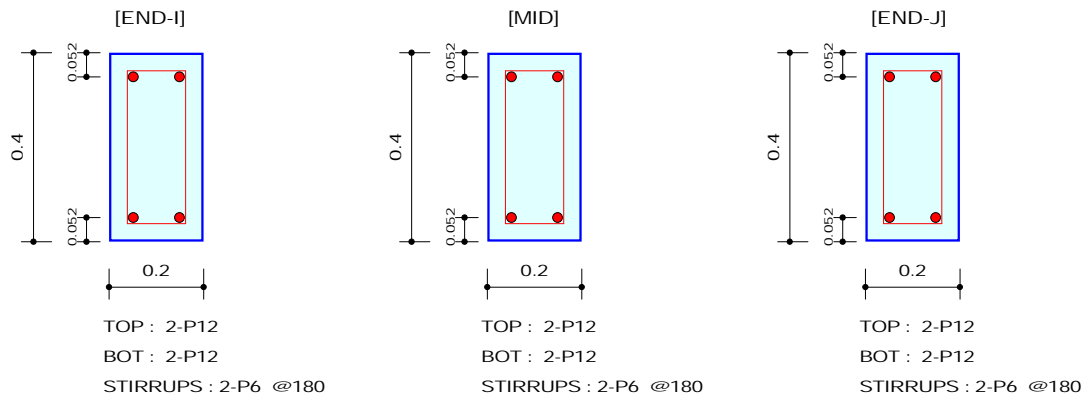
	Company		Project Title	
	Author		File Name	D:\...\MidasCal81_100_V8.mgb

1. Design Information

Design Code : ACI318-11
 Material Data : $f_c = 1.5e+006$, $f_y = 4e+007$, $f_{ys} = 2.4e+007$ kgf/m²
 Section Property : GB3 (No : 4)

Unit System : kgf, m
 Beam Span : 4 m

2. Section Diagram



3. Bending Moment Capacity

	END-I	MID	END-J
(-) Load Combination No.	2	14	2
Moment (Mu)	1148.36	80.00	1050.68
Factored Strength (ϕM_n)	2390.55	2390.55	2390.55
Check Ratio ($M_u/\phi M_n$)	0.4804	0.0335	0.4395
(+) Load Combination No.	2	2	12
Moment (Mu)	351.30	1169.77	150.25
Factored Strength (ϕM_n)	2390.55	2390.55	2390.55
Check Ratio ($M_u/\phi M_n$)	0.1470	0.4893	0.0629
Using Rebar Top (A_{s_top})	0.0002	0.0002	0.0002
Using Rebar Bot (A_{s_bot})	0.0002	0.0002	0.0002

4. Shear Capacity

	END-I	MID	END-J
Load Combination No.	2	2	2
Factored Shear Force (V_u)	3201.52	1745.48	3007.79
Shear Strength by Conc. (ϕV_c)	3164.33	3164.33	3164.33
Shear Strength by Rebar. (ϕV_s)	1836.42	1836.42	1836.42
Using Shear Reinf. (A_{sv})	0.0003	0.0003	0.0003
Using Stirrups Spacing	2-P6 @180	2-P6 @180	2-P6 @180
Check Ratio	0.6402	0.3490	0.6015