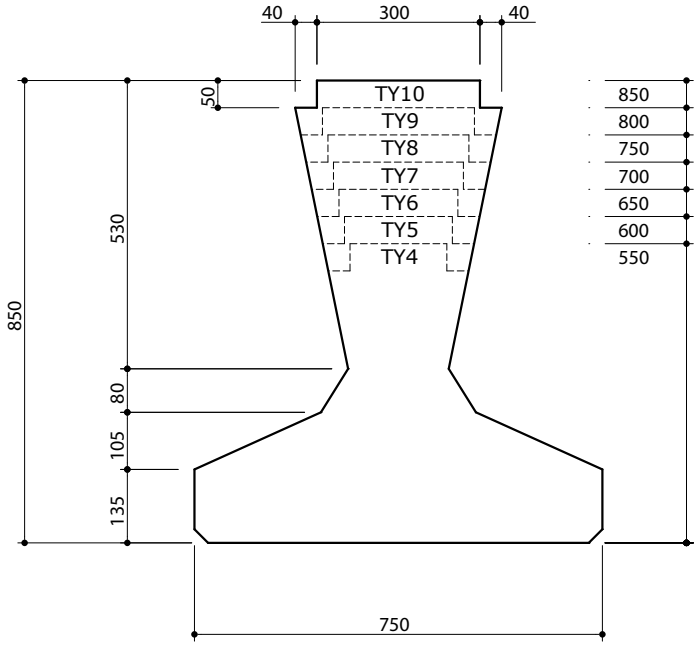
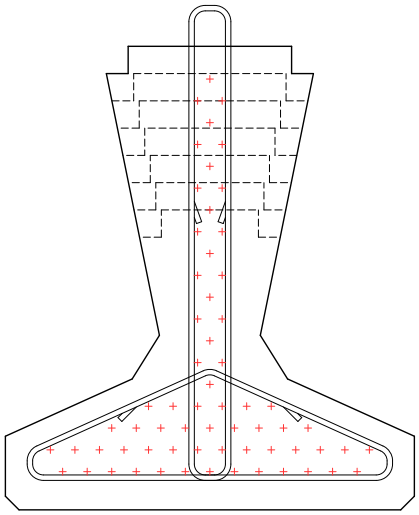
O'REILLY
—concrete—

PRE-STRESSED BRIDGE BEAMS

STANDARD TY BRIDGE BEAMS

Pre-stressed bridge beams for use in beam and slab deck construction.





Strand locations

Beam type	Height [mm]	Area [mm^2]	Y_b [mm]	I_x [mm^4]	Z_t [mm^3]	Z_b [mm^3]	Self weight [kN/m]
TY4	550	222535	193.31	49.80×10^8	13.96×10^6	25.76×10^6	5.56
TY5	600	236957	215.61	68.08×10^8	17.71×10^6	31.58×10^6	5.92
TY6	650	252393	239.77	90.81×10^8	22.14×10^6	37.87×10^6	6.31
TY7	700	268844	265.58	118.40×10^8	27.25×10^6	44.58×10^6	6.72
TY8	750	286309	292.83	151.25×10^8	33.08×10^6	51.65×10^6	7.16
TY9	800	304787	321.34	189.75×10^8	39.64×10^6	59.05×10^6	7.62
TY10	850	324280	350.93	234.28×10^8	46.94×10^6	66.76×10^6	8.11

Beam type	Typical range of span [m]									
	8	9	10	11	12	13	14	15	16	17
TY4	■	■	■	■	■	■	■	■		
TY5					■	■	■	■		
TY6						■	■	■		
TY7							■	■		
TY8							■	■	■	
TY9								■	■	■
TY10									■	■

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