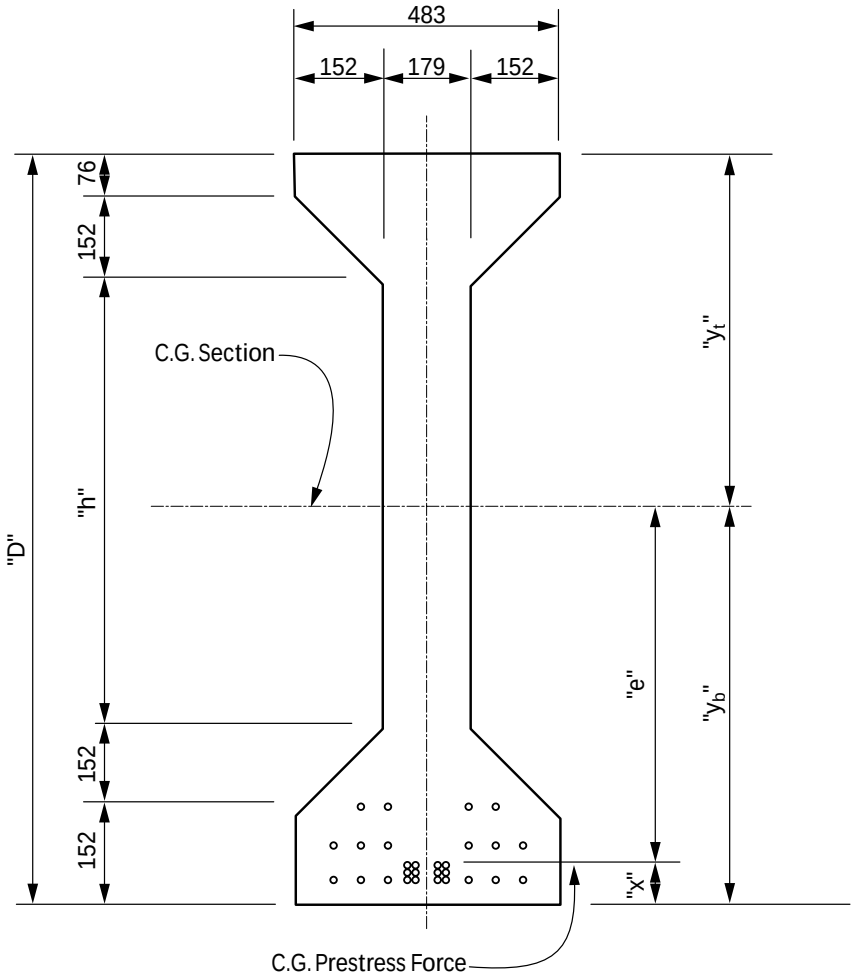
6-1 PRECAST PRESTRESSED GIRDERS

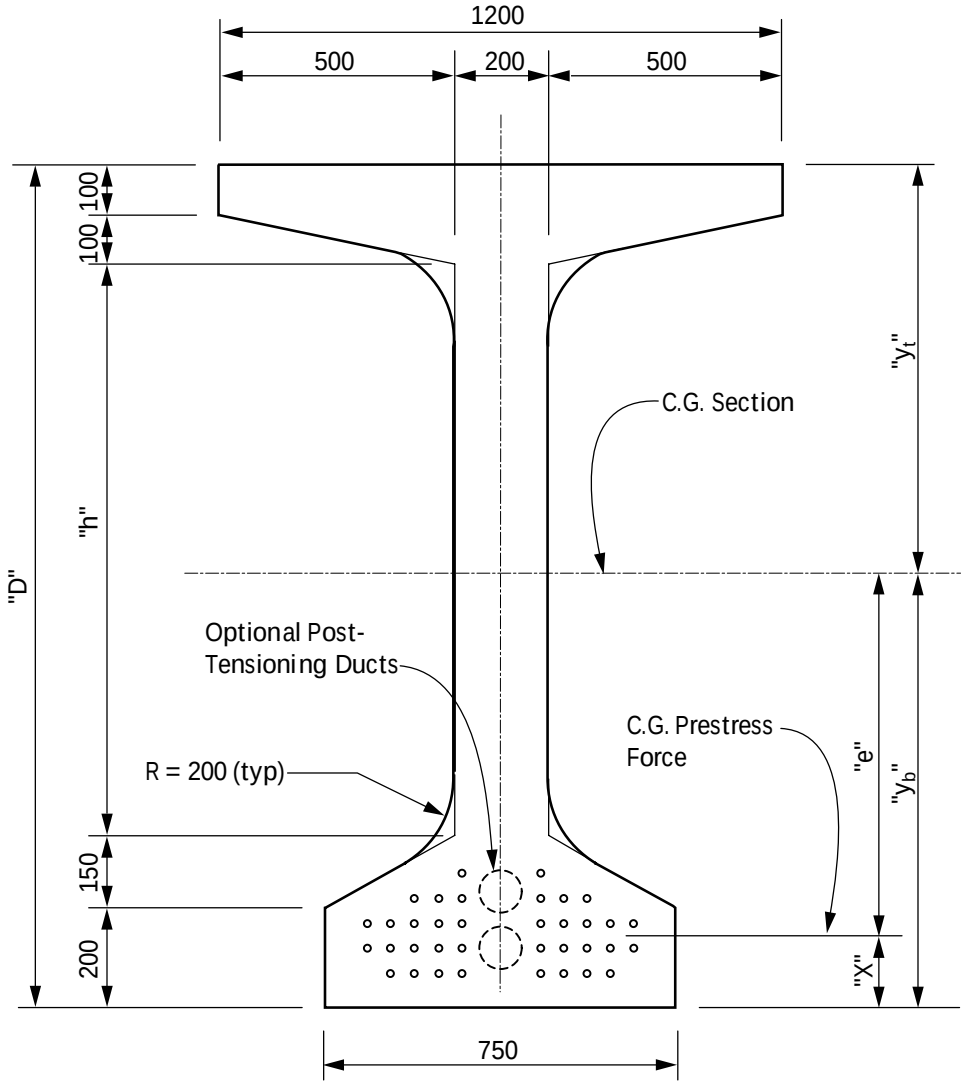
Caltrans Standard "I" Girder



Section Properties

"D" (mm)	"h" (mm)	Area (mm2)	I (mm4)	yb (mm)	yt (mm)	Sb (mm3)	St (mm3)	r (mm)	Force (N/m)	Mass (Kg/m)
914	382	279 200	26 200 E6	435	479	60.3 E6	54.7 E6	306	6580	671
1067	535	306 500	39 800 E6	508	559	78.3 E6	71.1 E6	360	7223	736
1219	687	333 700	56 800 E6	580	639	97.9 E6	89.0 E6	413	7866	802
1372	840	361 000	77 800 E6	654	718	118.9 E6	108.4 E6	464	8509	867
1524	992	388 300	102 900 E6	728	796	141.4 E6	129.3 E6	515	9152	933
1676	1144	415 600	132 600 E6	802	874	165.3 E6	151.6 E6	565	9795	998

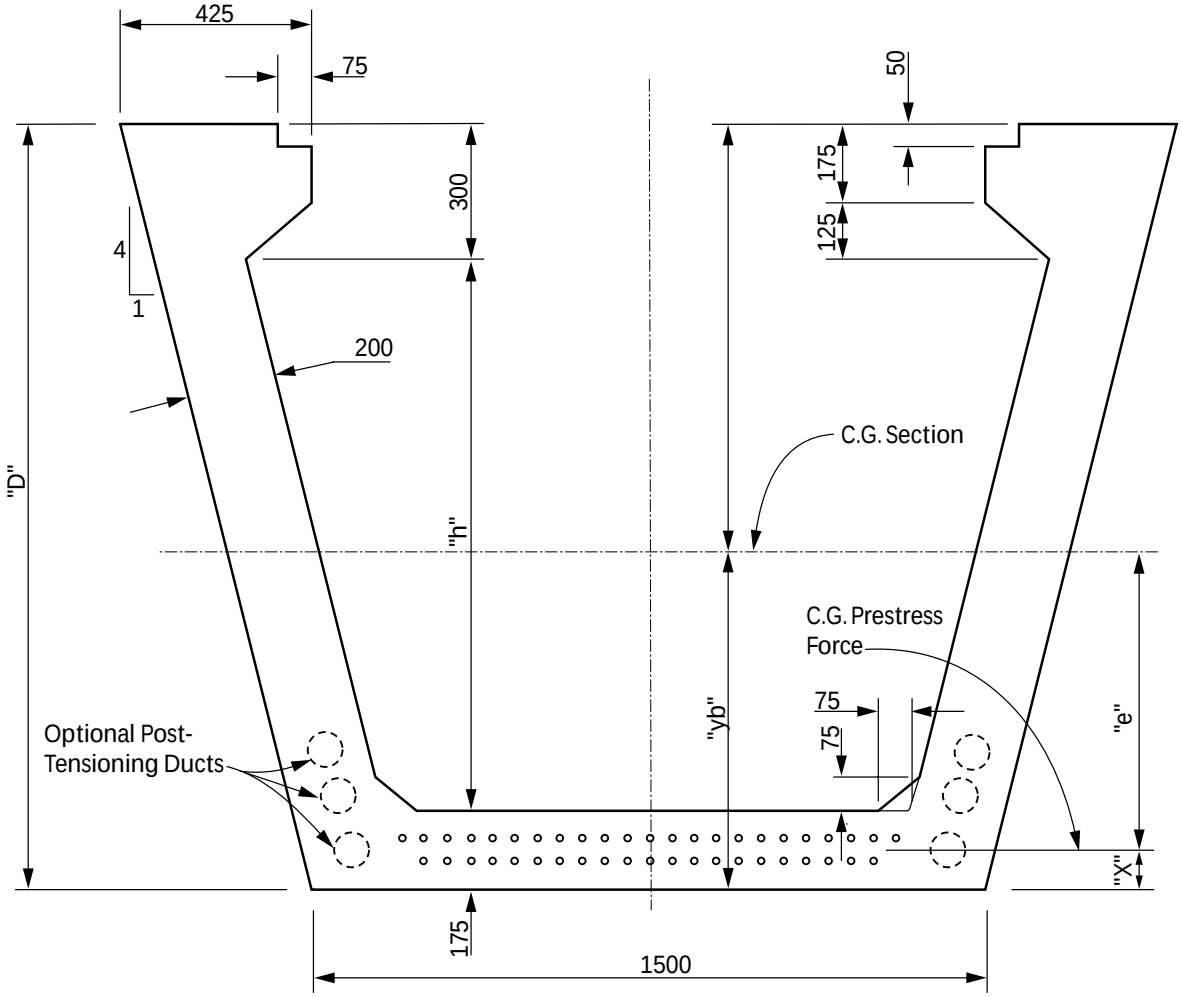
Caltrans Standard “Bulb-Tee” Girder



Section Properties

"D" (mm)	"h" (mm)	Area (mm2)	I (mm4)	yb (mm)	yt (mm)	Sb (mm3)	St (mm3)	r (mm)	Force (N/m)	Mass (Kg/m)
1400	850	596 500	155 400 E6	721	679	215.5 E6	228.8 E6	510	14 060	1433
1550	1000	626 500	201 200 E6	795	755	253.0 E6	266.5 E6	567	14 770	1505
1700	1150	656 700	254 200 E6	870	830	292.1 E6	306.2 E6	622	15 480	1577
1850	1300	686 100	314 500 E6	945	905	333.0 E6	347.5 E6	677	16 180	1650
2000	1450	716 300	382 600 E6	1019	981	375.4 E6	390.0 E6	731	16 890	1722
2150	1600	746 500	458 800 E6	1094	1056	419.4 E6	434.5 E6	784	17 600	1794

Caltrans Standard “Bathtub” Girder



Section Properties

"D" (mm)	"h" (mm)	Area (mm^2)	I (mm^4)	y_b (mm)	y^t (mm)	S_b (mm^3)	S_t (mm^3)	r (mm)	Force (N/m)	Mass (Kg/m)
1400	925	864 000	191 500 E6	612	788	313.0 E6	243.1 E6	471	20 370	2076
1550	1075	925 900	251 500 E6	683	867	368.2 E6	290.0 E6	521	21 820	2225
1700	1225	987 700	321 800 E6	755	945	426.2 E6	340.5 E6	571	23 280	2374
1850	1375	1 049 600	403 200 E6	827	1023	487.5 E6	394.1 E6	620	24 740	2522
2000	1525	1 111 400	496 400 E6	899	1101	552.2 E6	450.9 E6	668	26 200	2671
2150	1675	1 173 300	602 100 E6	972	1178	619.4 E6	511.1 E6	716	27 660	2819