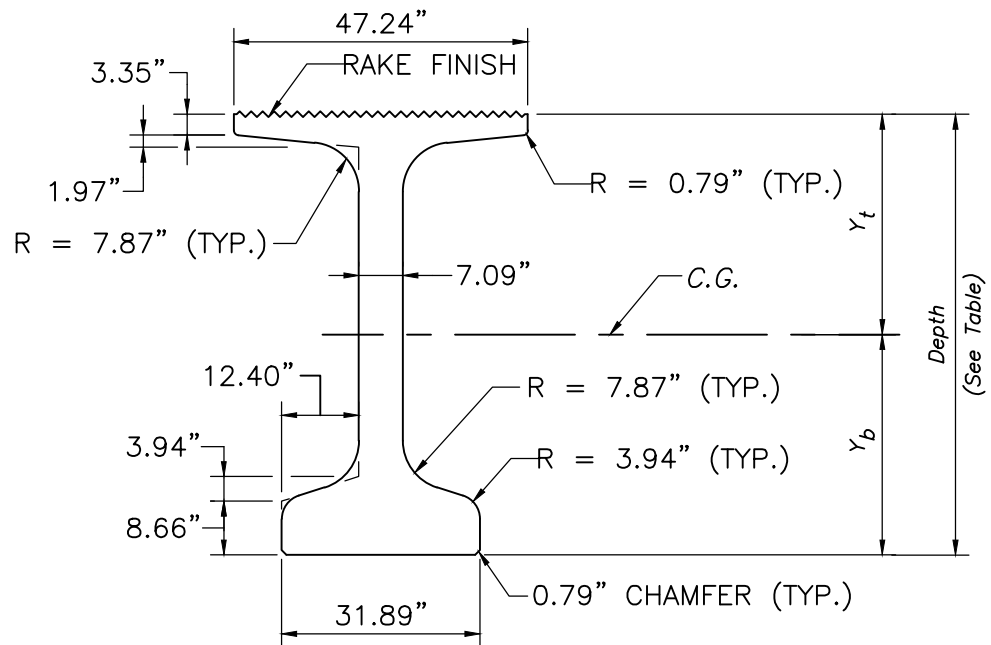




BEAM PROPERTIES

Beam Type	Depth (in)	Weight (Lbs./Ft)	A _{req} (in ²)	I _x c.g. (in ⁴)	I _y c.g. (in ⁴)	Y _t (in)	Y _b (in)	S _t (in ³)	S _b (in ³)
NEBT 1000	39.37	778	746	149196	61745	20.35	19.02	7332	7844
NEBT 1200	47.24	835	801	238089	61985	24.61	22.63	9675	10516
NEBT 1400	55.12	894	857	353169	62225	28.86	26.26	12237	13449
NEBT 1600	62.99	952	913	492515	62465	33.03	29.96	14911	16439
NEBT 1800	70.87	1010	969	660691	62706	37.2	33.66	17761	19663

MAXIMUM SPAN LENGTHS (ft.)

Beam Type	Beam Spacing								
	5 ft.	6 ft.	7 ft.	8 ft.	9 ft.	10 ft.	11 ft.	12 ft.	13 ft.
NEBT 1000	86	80	77	71	69	66	64	61	59
NEBT 1200	100	96	90	86	82	79	74	71	68
NEBT 1400	113	108	103	98	93	89	85	81	78
NEBT 1600	126	120	114	108	104	99	94	90	87
NEBT 1800	139	131	124	119	113	108	103	99	95

NOTES:

- Above drawing is not to scale.
- Maximum Span Lengths are approximate and are based on the following assumptions:
 - $f'_c = 6500$ psi (Precast)
 - $f'_{ci} = 4500$ psi (Precast)
 - $f'_c = 4000$ psi (Cast-in-Place Composite Deck)
 - Interior Girders with no skew.
 - Final Allowable Tension at bottom of beam is equal to $0.0948\sqrt{f'_c}$ ksi.
 - HL-93 Live Load.
 - Time-Dependent Losses of Article 5.9.5.3 of the AASHTO-LRFD were used.
 - The CF-PL3 Barrier was assumed on the bridge.
 - 3.5" thick HMA wearing surface.
 - 0.6" diameter low relaxation strands.