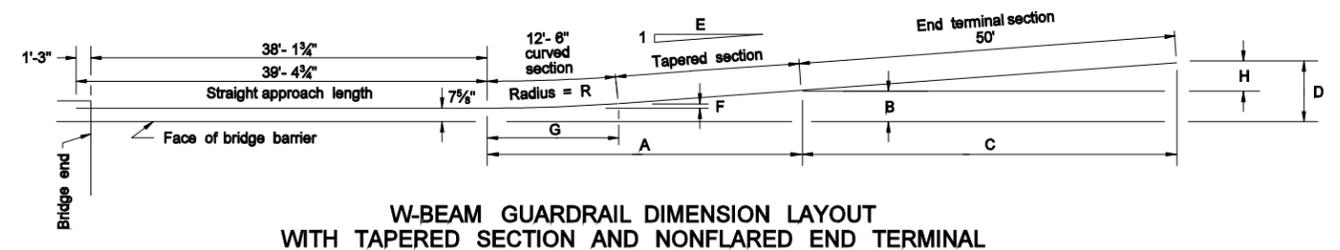
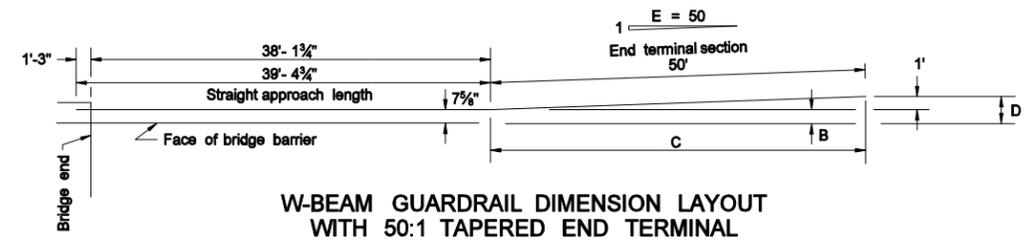
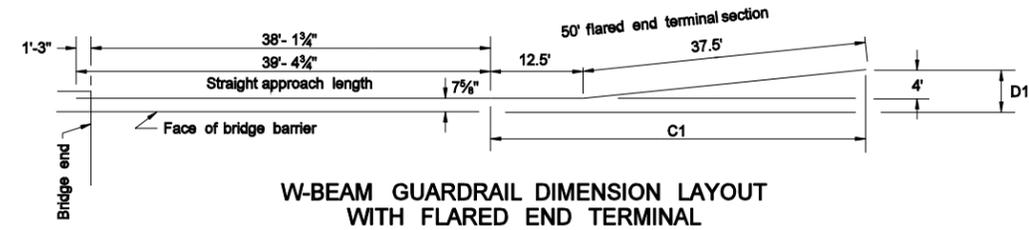


GUARDRAIL AT BRIDGE ENDS 30 MPH DESIGN SPEED

D-764-5A

LENGTH OF NEED TABLE 30 MPH DESIGN SPEED

DESIGN TRAFFIC VOLUME	CLEAR ROADWAY WIDTH OF BRIDGE	STRAIGHT APPROACH LENGTH	APPROACH SIDE							OPPOSITE SIDE									
			A	B	C	D	C1	D1	E	TOTAL W-BEAM LENGTH	A	B	C	D	C1	D1	E	TOTAL W-BEAM LENGTH	
			FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
UNDER 750 ADT	48	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	46	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	44	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	42	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	40	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	38	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	36	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	34	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	32	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	30	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	28	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	26	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
24	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
750 - 1500 ADT	48	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	46	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	44	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	42	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	40	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	38	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	36	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	34	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	32	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	30	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	28	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	26	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
24	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
1500 - 2000 ADT	48	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	46	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	44	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	42	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	40	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	38	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	36	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	34	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	32	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	30	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	28	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	26	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
24	39.4	24.92	2.50	49.75	7.48				10	64.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
2000 - 6000 ADT	48	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	46	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	44	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	42	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	40	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	38	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	36	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	34	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	32	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	30	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	28	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	26	39.4	24.92	2.50	49.75	7.48				10	64.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
24	39.4	24.92	2.50	49.75	7.48				10	64.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
OVER 6000 ADT	48	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	46	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	44	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	42	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	40	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	
	38	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	36	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	34	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	32	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	30	39.4	12.48	1.26	49.75	6.23				10	51.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	28	39.4	24.92	2.50	49.75	7.48				10	64.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
	26	39.4	24.92	2.50	49.75	7.48				10	64.4	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4
24	39.4	37.36	3.75	49.75	8.72				10	76.9	0.00	0.64	49.99	1.64	49.79	4.64	50	39.4	



DESIGN SPEED	F	G	H	R
30	0.62	12.48	4.98	125.42

NOTES:

- On divided highways use distance from roadway centerline to bridge rail x 2 and use this as clear roadway width of the bridge to determine guardrail length.
- The contractor shall use wood posts for W-beam guardrail.

- ① Does not include end terminal section
- ② The 39.4' straight approach length is for use with the transition shown on Standard Drawing D-764-3. For the transition shown on Standard Drawing D-764-3A, revise straight approach length to 45.65'.
- ③ Dimensions "B", "D" and "D1"