

COLLAPSE OF COAL TRESTLE AT EAST TORONTO YARDS, G.T.R.

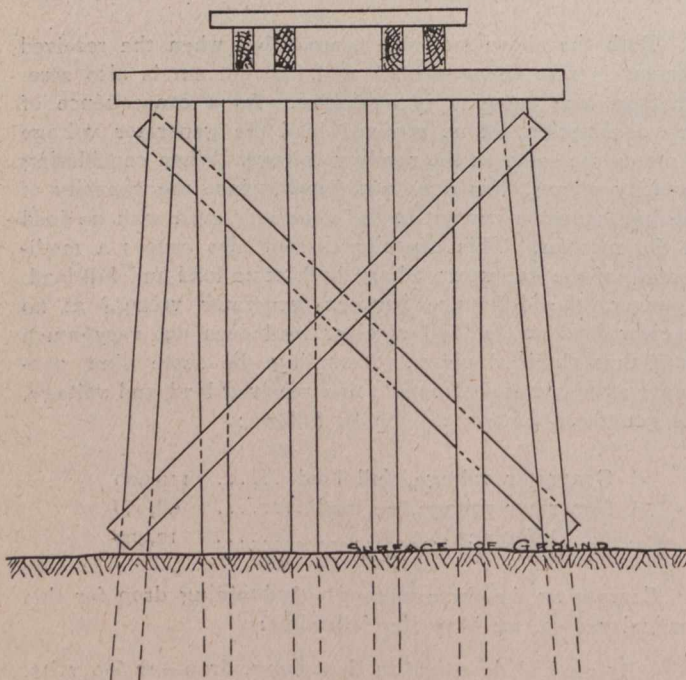
In The Canadian Engineer of July 7th, in the article referring to the collapse of the coal trestle at the G. T. R., East Toronto yards, there were three unfortunate mistakes.

We are glad to correct those misstatements in this issue, and are sorry that the article reflected in any way upon the design or construction or condition of the trestle.

The bents, as the accompanying diagrams will show, were placed 14 foot centres, and were made up of sound cedar piles, well braced. The tables given under each diagram would indicate that the factor of safety (considering the weight of the engine) in both stringers and piles was very large. An examination of the broken piles does not show that the body timber had decayed at all.

The profile of the trestle indicates the condition of the trestle after the collapse.

In the photograph published last week, the position of the engine is shown. The engine was lying on its side, almost at the centre line. There is nothing to indicate what may have caused the accident, and almost everyone who visits the scene has a theory of his own. The engine was not working nor yet had the air-brake been applied, when the trestle weakened. One theory advanced as to the cause of the collapse is that one or two of the piles may have settled on one side enough to cause the weight of the engine to push the trestle sideways.



Detail A—B.

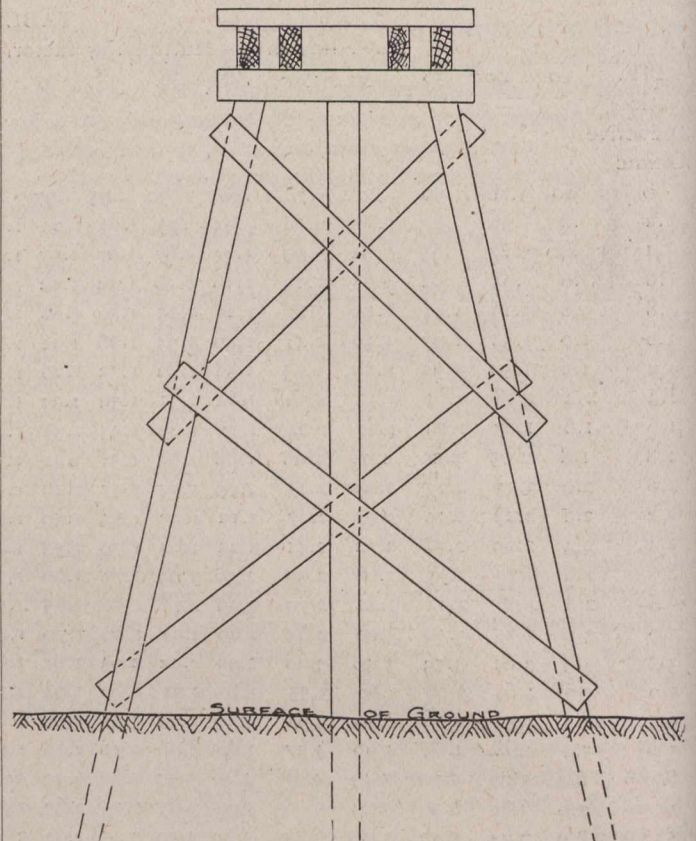
Ties—Same as "B to C."

Stringers—Same as "B to D."

Caps—12 in. x 12 in. x length.
Length, 12 ft. to 16 ft.

Piles—Diameter at top, 12 in. to 14 in.
Diameter at ground, 9 in. to 12 in.
Length above ground, 10 ft. 5 in. to 14 ft.

Braces—3 in. x 12 in.
Two diagonal braces.



Detail B—C.

Ties—On Ramp—6 in. x 8 in. x 8 ft. track ties.
57 ties per hundred feet.

Spiked every 5 ft., 10 in. spikes.

Stringers—8 in. x 16 in. x 30 ft. Georgia pine.
2 under each rail—bolted together.
Joints alternating.

Caps—12 in. x 12 in. x 8 ft.
Drift-bolted to piles.
Drift-bolts $\frac{3}{4}$ in. x 24 in.

Piles—Cedar.
Diameter at top, 14 in. to 16 in.
Diameter at ground, 10 in. to 12 in.
Length above ground, 22 ft.-23 ft.

Braces—3 in. x 12 in. Georgia pine.
Longitudinal braces, 3 in. x 12 in.

"C" to "D."

Ties—6 in. x 8 in. x 8 ft.
Every third tie 6 in x 8 in. x 14 ft.
Long ties spiked to stringers, 10 in. spikes.

Stringers—8 in. x 16 in. x 30 ft.—Georgia pine.
Two under each rail—joints alternating.
Bolted together— $\frac{3}{4}$ in. bolts.

Caps—12 in. x 12 in. x 8 ft.
Drift-bolted to piles.
Drift-bolts, $\frac{3}{4}$ in. x 24 in.

Piles—Cedar.
Diameter at top, 14 in. to 16 in.
Diameter at ground, 10 in. to 12 in.
Length above ground, 22 ft.-23 ft.

Braces—3 in. x 12 in.—Georgia pine.
Two diagonal and one horizontal.
Longitudinal brace between last two bents.
Horizontal brace about 11 ft. from ground.