

# Aerodynamic Investigation on Cable-stayed Bridge with 2-edge Girder

*... were also investigated.  
In this study, adding a horizontal member at the top of the tower is most effective for increasing*

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1)-3)

Alex-Fraser

<sup>4)</sup> Long's Creek

<sup>5)</sup> Quincy

<sup>6)</sup>

<sup>7)</sup>

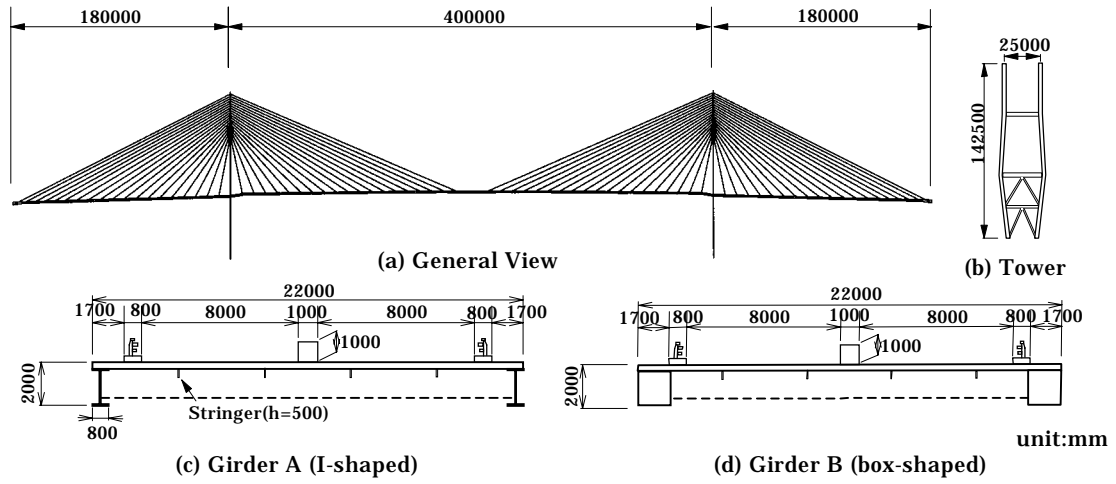
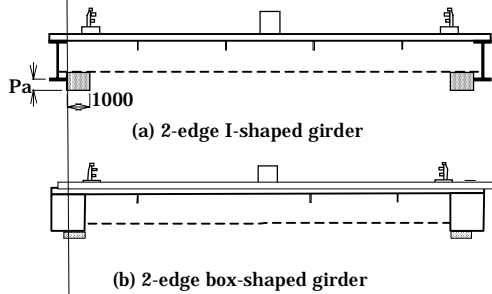


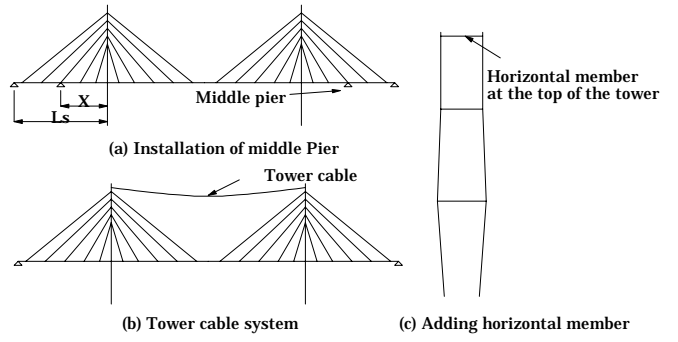
Fig.1~ Cable-stayed bridge for investigation

Property	Prototype assumed	Model (scale 1:50)
Width	22.0m	0.44m
Depth	2.0m	0.04m
Mass	25.23t/m	16.05kg/model
Inertia	1548t m <sup>2</sup> /m	0.394kgm <sup>2</sup> /model
Damping( )		0.020
Bending freq.	0.27Hz	2.10Hz
Torsional freq.	0.54Hz	4.20Hz





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Table 2

9)

Table 3~ Effectiveness of structural countermeasures

