

The City Island Cable - Stayed Bridge in New York City

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ABSTRACT

The City Island Bridge connects the 2,700 acre Pelham Bay Park in the Bronx with City Island, also a part of the Bronx in New York City. The existing bridge built in 1901 has 5 fixed spans and two swing spans over Eastchester Bay. The swing spans were made fixed in 1963 with the permission of the U.S. Coast Guard. The bridge has serious deterioration and requires constant maintenance. In 2004, the New York City Department of Transportation (NYCDOT) decided to replace the existing bridge with a cable-stayed bridge. This paper describes the salient features of this new bridge which is under final design. It is anticipated that the construction will begin in 2007, and will take 3 years to complete. The construction cost is estimated at \$50 million.

1. INTRODUCTION

This paper describes the planned construction of a cable-stayed bridge connecting the mainland Bronx with City Island over Eastchester Bay in Long Island Sound. City Island, which is a part of the Bronx, is about a half-mile wide and approximately one and one-half miles long (Figure 1).