DESIGN FOR
HIGH BRIDGE
REHABILITATION

Contract M-037-707M

Landmarks Preservation Commission • April 5, 2011
HIGH BRIDGE CHRONOLOGY

1837-1842  Old Croton Aqueduct constructed
1839-1848  High Bridge constructed with fifteen masonry arches conveying two 36" water pipes
1861-1864  Side walls of High Bridge raised to accommodate new 90 1/2" pipe; New brick walkway and railings
1926-1928  Five masonry arches replaced with single steel arch to accommodate navigation in Harlem River
1958      Old Croton Aqueduct removed from service across the High Bridge
1960      Land Transfer from DEP to DPR
1970      High Bridge awarded individual landmark designation (LPC)
1972      High Bridge listed on National Register of Historic Places
1979      Rehabilitation of the High Bridge including: repairs to brick paving and bridge railings, resetting of the cap stones and granite stairs, and installation of metal gates
1992      Old Croton Aqueduct designated National Historic Landmark (including High Bridge)
1839 - 1848 Original Construction

1843, Croton Aqueduct at Harlem River Tower, Fayette, B. (Museum of the City of New York)

1860 - 1864 The Great Pipe

1862, Transverse Section of the High Bridge, DEP Archives, Lantern Slide Collection

1860-61, High Bridge during Construction of the Large Main Viewed from the New York Side Looking East, DEP Archives, Lantern Slide Collection

1863, High Bridge during Construction of the Large Main Viewed from the West Gate House Looking East, DEP Archives, Lantern Slide Collection

Rehabilitation of the High Bridge
Bartholomew, Manhattan & Bronx
06 April 2011
1885 - 1925 Landscape Development

1916 High Bridge and High Service Tower View North Up the Harlem River, Manger, S. (DEP Archives, Catskill Photo Collection)

1910 ca. Harlem Speedway towards High Bridge. McFadden, W. R. (Museum of the City of New York, Print Archives)

1886 Stone Steps at High Bridge, New York City. (New York Public Library, Mid-Manhattan Picture Collection)

1902. The Speedway Near High Bridge, N.Y. Loeffler, A. (Corbis)

1916. High Bridge Aqueduct Crossing the Harlem River Looking Northeast. (DEP Archives)
1926 - 1928 The Steel Span
EXISTING CONDITIONS - RAILINGS AND LIGHTING

GATEHOUSE RAILING 1850

MASONRY SPAN RAILING 1864

STEEL SPAN RAILING 1928

Historic cast iron finial at the 1850 rail
Non-historic cast iron finial (1979 ca.) at expansion joint
Expansion joint detail at the metal span
Cast iron light pole (1935 ca.) and cast iron scrolls at bridge steps

Non-original in-board bracing at 1864 rail
Cracked cast iron rail post at metal spar
Missing capital at cast iron baluster at metal span
Cast iron light pole of metal span (1935 ca.)

Non-original in-board bracing at 1864 rail
Missing cast iron scrolls at masonry abutment steps
Deteriorated rail post base at metal span
Cast iron light pole at metal span (1935 ca.)

Typical brace at 1850 rail, set in granite coping
In-board (non-original) and out-board rail bracing at 1850 rail
Out-board bracing at 1928 rail
Cast iron light pole at masonry pier (1935 ca.)
MANHATTAN GATEHOUSE PLAZA
Location of entrance to new ramp and gates
MANHATTAN GATEHOUSE PLAZA
Location of new ramp (right side)
BRONX GATEHOUSE PLAZA
Location of new ramp as seen from the bridge
BRONX ABUTMENT STEPS
Location of new ramp (left side)