

**THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SEWERS
INTER - OFFICE MEMORANDUM**

DATE: September 25, 1987

TO: GORDON YEE, P.E., ACTING CHIEF, PRIVATE DRAINAGE REVIEW
SECTION
FROM: DOUGLAS SMITH, P.E., ACTING CHIEF, ENGINEERING REVIEW SECTION
SUBJECT: WESTSIDE CONNECTION PROJECT, NORTH ACCESS TUNNEL FROM
W. 33RD STREET TO W. 38TH STREET, BOROUGH OF MANHATTAN

Find a set of final plans and specification for the above referenced project as submitted by Parsons Brinkerhoff Quade & Douglas, Inc. Please review the project and inform this office if the revised submission meets all the requirements as listed in your letter dated July 15, 1987 to the consultant (copy of letter attached).

cc: Farag
D. Smith
Aggarwal
Suspense
RA:lp

37050
9-25-87

Dispatched
 JUL 21 1987
 Bureau of Heavy Construction
 Mail Room

Parsons, Brinkerhoff, Quade & Douglas, Inc.
 One Penn Plaza
 New York, NY 10119

July 15, 1987

Attn: Mr. Ahmet Gursoy, Project Manager

Re: AMTRAK North Tunnel, Dual Inverted Siphon at West 33rd Street and
 11th Avenue, Borough of Manhattan

Dear Mr. Gursoy:

This in reply to your submittal of plans for the referenced project with your letters dated January 8, 1987 and June 4, 1987, and to your June 30, 1987 submittal of minutes of a meeting held on June 29, 1987. Please be informed of the following comments:

1. Item No. 3 in the minutes states that "Bureau of Sewers has accepted the siphon design hydraulically". This is incorrect. The meeting was held to clarify the relationship between the computation sheets and the contract drawings so that our review could be concluded expeditiously. Hydraulic acceptability can only be given by formal letter from this Department after complete review of all submitted computations and related material.
2. Regarding item No. 2 of your minutes of the meeting, be advised that should your final siphon design computations be found to be deficient, such design may require revision which in turn, may involve changes in sizes and/or elevations of existing or proposed sewers or dimensions of the siphon itself.
3. On drawing No. S-32 of your contract plans you show the existing 3'-0" X 4'-9" combined sewer entering new manhole No. 3 as having a height of 4'-9". Attached herewith for your information is an extract copy of a contract plan dated July 27, 1939 for the New York Central Railroad Company showing a cross section of this sewer (labeled S-S), indicating that the height is 3'-0".

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AMTRAK
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4. The New York Central Railroad plans also include a reference to a 6" C.I. house sewer emanating from the north side of West 33rd Street, which is connected to the existing 3'-0" X 4'-9" sewer in West 33rd Street. The elevation of this connection must be determined since it is crucial to the design of the inverted siphon.
5. Since the existing sewer in West 34th Street is to be rerouted to the upstream end of the new siphon, the house connection elevations along West 34th Street must also be considered in relation to the hydraulic grade elevations along the siphon route.
6. Your attention should be drawn to the attached New York Central drawings in which it is shown that the existing 15" diameter pipe in 11th Avenue north of West 33rd Street enters the 33rd Street sewer at a point approximately 5 feet downstream of the existing manhole. This point is at the same location as your proposed manhole No. 3.
7. As a result of recent discussions it is understood that your computations are being revised to reflect our comments regarding the apparent inadequacies in your computation of the hydraulic gradient difference between the upstream and downstream points of the siphon as shown in your January 8th submission.

All the above issues must be resolved satisfactorily before any hydraulic approval can be given for the submitted contract drawings.

Sincerely,

Magdi Farag, P.E. Chief
Div. of Sewer Regulation & Control
Bureau of Sewers

Enclosure

cc
DiMartino
Farag
D. Smith
Yee
Swedlow
Suspense

MS/rm
Room 929