



CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
1250 BROADWAY, NEW YORK, N.Y. 10001
(212) 971-6796

HARVEY W. SCHULTZ
Commissioner

JOSEPH P. CONWAY, P.E., Director
Assistant Commissioner

December 9, 1987

To: Magdi Farag, P.E.
Chief
Division of Sewer Regulation & Control

From: Anthony Ragucci, P.E.
Chief,
Maintenance Section

Subject: I.D. #736 Amtrak leaks on Riverside
Drive, Manhattan
D.F.O. 87-139

RECEIVED
D.E.P./BUREAU OF SEWERS

FEB 19 1988

DIVISION OF
SEWER REGULATION
AND CONTROL

In response to a request dated July 21, 1987 regarding leaks on the Amtrak Railroad at the west side connection (Riverside Drive), an engineering investigation was conducted and the following was found.

1) On Riverside Drive and West 147th Street

A leak was observed on the track. Dye tests and T.V. Inspections reveal that the 15" combined sewer at West 147th Street is not connected to the 3'-6"x2'-4" sewer on Riverside Drive as shown in North River drainage area analysis.

The 15" sewer is 4 feet lower than the 3'-6"x2'-4" brick sewer. The 15" sewer would normally go to the river but is now collapsed and the sewage exits through the broken manhole west of Riverside Drive onto the Amtrak Railroad. It is recommended that the 15" combined sewer at West 147th Street and Riverside Drive be connected to the 3'-6"x2'-4" brick sewer under capital project. We will perform trap elevation survey in preparation for the capital project to connect the 15" sewer to the 3'-6"x2'-4" brick sewer.

2) On Riverside Drive and West 144th Street

A leak was detected and a sample analysis and dye test was performed. It was proven to be sewage. A sewer break repair sheet (CC#87S069858) has been submitted to reconstruct the sewer break at West 145th Street between Broadway and Riverside Drive. (See attached sheet).

Magdi Farag, P.E.
Chief,
Division of Sewer Regulation & Control

-2-

December 9, 1987

3) Riverside Drive between West 139th Street and 140th Street

There are low points on Riverside Drive that accumulate runoffs during rainstorms. This accumulation runs down into the Amtrak Area.

a) The west curb line reveal on Riverside Drive between West 139th Street and West 140th Street is 1". (Standard curb line 6").

b) The section Map #2119 from Topographical Bureau on Riverside Drive between west 139th Street and West 140th Street shows good pitch for runoff. (See attached sketch).

It is recommended that a Highway Capital Project be prepared to bring the street pavement to its legal grade so that rain water will enter the catch basins and ponding will be eliminated.

4) On Riverside Drive and West 146th Street

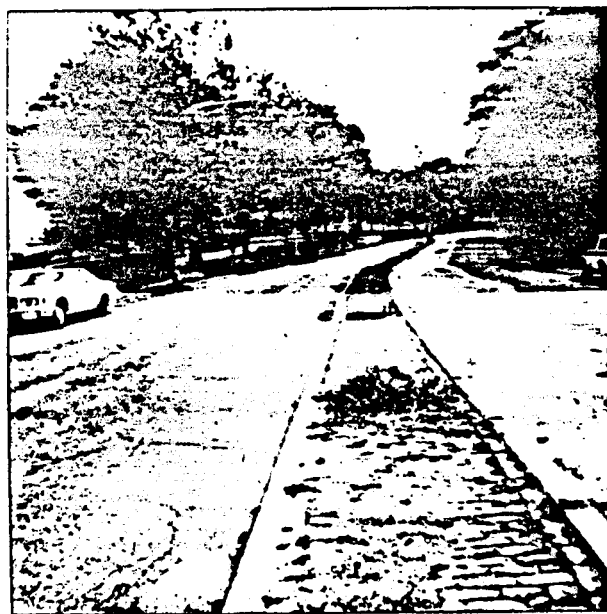
A leak was detected, and a sample analysis was performed. It was proven to be sewage. A sewer break report (CC#87569858) has been submitted to repair the sewer at West 145th Street between Broadway and Riverside Drive. The reconstruction of the sewer would stop the leak. (See attached break sheet).

cc: Rennard/Campagna
Ragucci
Donnellan/Nagy/Nwosu
File

KN:kj
Attachment


Anthony Ragucci, P.E.
Chief,
Maintenance Section

LOCATION #3



W. 140 ST. / RIVERSIDE DRIVE SHOWING
THE GRADES OF THE HWT. FLOODING
CONDITION. EXIST. AT THIS
LOCATION.

9/10/87

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SEWERS
INTER-DEPARTMENTAL MEMORANDUM

August 20, 1987

TO: CHIEF, MAINTENANCE, DIVISION OF SYSTEM OPERATIONS

FROM: CHIEF, DIVISION OF SEWER REGULATION AND CONTROL

SUBJECT: AMTRAK WEST SIDE CONNECTION WEST 159th STREET TO WEST 147th STREET. RIVERSIDE DRIVE

I.D. No. MAIPRS 840

Borough MANHATTAN

Brief description of why Maintenance report is required:

Attached are copies of letters from Amtrak and our response.

It is our understanding that personnel from your division have inspected this location and have verified the location of the broken sewers.

Since these sewers are within our jurisdiction please take the appropriate action to have these existing sewer facilities repaired as required.

This matter is urgent since the Amtrak West Side Connection is working on the rehabilitation of tracks in the subject area.

For further information, contact

Irving Ganz (212) 566-3513

MAGDI FARAG, P.E., CHIEF
Division of Sewer Regulation
and Control, Bureau of Sewers

Farag
Uriko
Ganz
Sirico
File
IG/lb
Rm 928

Per

ADO URIKO
ADO URIKO, P.E., CHIEF
Permit Control Section

cc: DiMartino
Gainer
Rennard
Farag
Uriko
Ganz
Sirico
File
IG/lb
Rm 928

Copy to: Mr. Charles S. Foti, P.E.
Director-Mass Transit Coordination
New York City DOT
40 Worth Street
New York, N.Y. 10015

August 11, 1987

A.E. Shaw, Jr, P.E.
Director Engineering
Track and Structures
Amtrak, 200 Market Street
Philadelphia, PA. 10103

Re: Sewer and Water Lines at Amtrak's west side connection, between
West 139th Street & 140th Street, West 144th Street and West 147th
Street, vicinity Riverside Drive, Manhattan.

Dear Mr. Shaw:

This is in response to your letter dated July 21, 1987 concerning broken
sewers and water mains that are spilling water, sewage and sediment onto
the Railroad at the listed locations, see attached part print.

It is our understanding that the Division of Sewer/Water Maintenance
Personnel have inspected the three (3) problem locations and are now
preparing a report with their recommendations as to the appropriate
action to order this repair work.

For further information with regard to the status of this report and
repair work contact Mr. R. Gainer at (212) 971-6804.

Sincerely,

MAGDI FARAG, P.E., CHIEF
Division of Sewer Regulation
and Control

National Railroad Passenger Corporation, 2000 Market St., Philadelphia, PA. 19103

Amtrak



JUL 21 1987

FILE: NY, NYC10-1253

Mr. Magdi Farag, P.E. Chief
 Division of Sewer Regulation and Control
 Bureau of Sewers
 Department of Environmental Control
 40 Worth Street
 New York, NY 10013

RECEIVED
 DIVISION OF SEWER REGULATION
 AND CONTROL

JUL 27 1987

RE: Sewer and Water Lines at Amtrak's
 West Side Connection, Borough of Manhattan
 (Formerly Conrail's West 30th Street Branch)

DIVISION OF
 SEWER REGULATION
 AND CONTROL

Dear Mr. Farag:

Attached is a copy of my January 30, 1987 letter concerning broken sewers and water mains that are spilling water, sewage, and sediment onto the railroad. We received no response.

We have taken preliminary cleanup action in order to clear the tracks of sediment to permit work train use. However unless the City takes action to correct the source problem, the situation will continue to deteriorate.

The problems are at three locations:

1. At West 147th Street (between Riverside Drive and the railroad), your Mr. Kachi Nwosu identified the problem as a broken sewer main by inspection on October 24, 1986. Raw sanitary sewage is flowing onto the railroad from an abandon sewer line from Riverside Drive.
2. At West 144th Street, there is constant flow of clear water from the ground east of the railroad, apparently from a broken water main. Mr. Nwosu said he would have the water chemically tested to verify this. This also was in October of last year. The water is still flowing and washing silt onto the railroad.
3. Between West 139th and 140th Streets, storm drainage from Riverside Drive is washing silt onto the tracks in ever increasing amounts. This was also confirmed by Mr. Nwosu during our October 1986 inspection.

Our design work on track and drainage rehabilitation is 75% complete (Attached are plans covering the entire length of the project). We are about to begin hauling track materials in by rail. We now have a low bidder prepared to start clearing the right-of-way.

AN EQUAL OPPORTUNITY EMPLOYER

FILE: NY, NYC10-1253

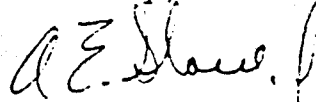
Mr. Magdi Farag, P.E. Chief
Division of Sewer Regulation and Control
Bureau of Sewers

RE: Sewer and Water Lines at Amtrak's
West Side Connection, Borough of Manhattan
(Formerly Conrail's West 30th Street Branch)

Page 2

We need immediate action by the City to make repairs to correct these problems. We cannot wait any longer. Please call me (215) 557-4286 so that we can discuss the matter.

Sincerely,



A. E. Shaw, Jr., P.E.
Director Engineering
Track and Structures

Enclosure: Plan Set, Ltr. dated 1/30/87

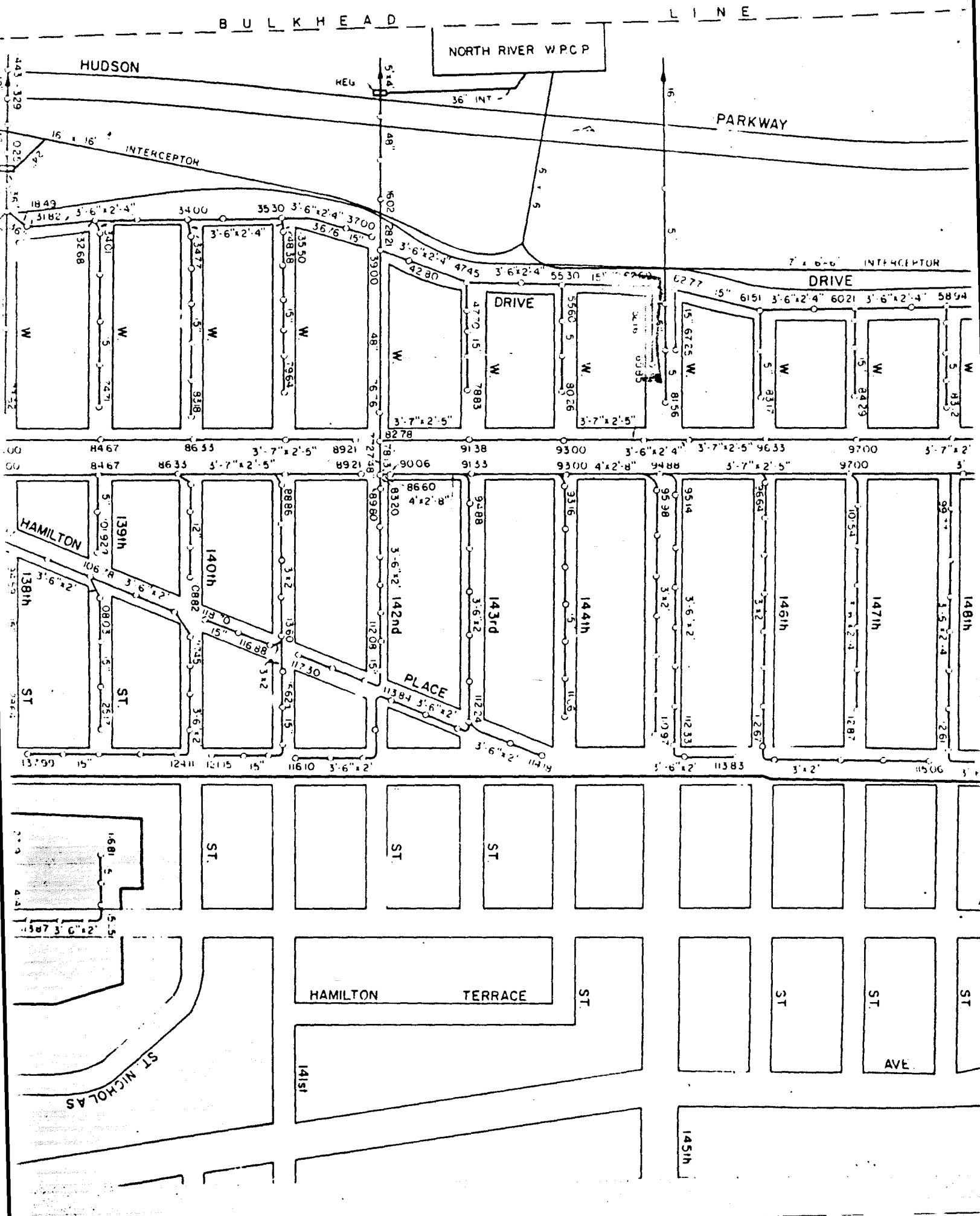
cc: Mr. Charles S. Foti, P.E.
Director-Mass Transit Coordination
New York City DOT
40 Worth Street
New York, NY 10013

M. E. Dunn
I. Oncu
K. P. Felsburg, Jr.

NAS/dar

RECEIVED BUREAU OF SEWERS
1987 JUL 30 AM 11:32
PERMIT COORDINATION SECTION

LOCATION 2



LOCATION # 142

SM - 107
REV.: 4/86

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SEWERS

PRIORITY

NOTIFICATION OF REQUIRED SEWER RECONSTRUCTION

TO: CHIEF, DIVISION OF SEWER CONSTRUCTION

FROM: CHIEF, DIVISION OF FIELD OPERATIONS

RE: MANHATTAN
BOROUGH

COMM. BD. #

[OTHER]
[SOURCE]

875069858

C. C. #

PRIORITY CATEGORY #

☒ T&M

[] KCP

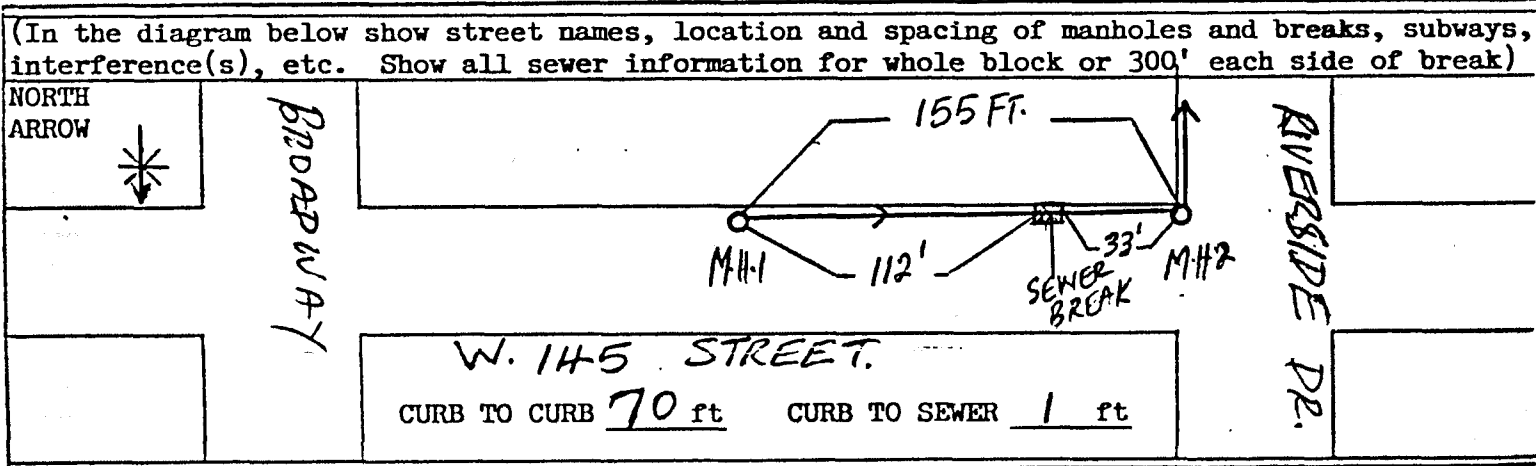
[] KVP

[] QVP

[] QCP

PLEASE BE ADVISED THAT WE HAVE INSPECTED AND EVALUATED THE SEWER LOCATED AT W. 145 ST. BIT BROADWAY AND RIVERSIDE DRIVE.
AND FOUND THE FOLLOWING CONDITION TO EXIST: A SEWER BREAK LEAKING TO THE AMTRAK RAILROAD

PUMPING INFORMATION: [] CONTINUOUS [] PERIODIC [] NONE AT THIS TIME



POWER ROD USED ON:
MAINTENANCE MATERIAL AT SITE:

- [] PLATES
[] ROD(S)
[] NOZZLE(S)

SEWER
TYPE COMBINED
MATERIAL VIT.
SIZE/SHAPE 15"
DEPTH (ft.) 14'
(Upstream M.H.)
DEPTH (ft.) 14'
(Downstream M.H.)

CONTRACT #
SM 107 RECEIVED
O.T.W. SENT
SM 107 SENT
BEGAN PUMPING
BEGAN REPAIR
COMPLETED REPAIR
OTHER ACTION
CAPITAL PROJECT

KACH NWOSH
~~ENGINEER~~

CENTRAL
DISTRICT

8/25/87
DATE INSPECTED

BOROUGH OFFICE CHECK

M. Delis.
SUPERINTENDENT - SEWER SERVICES

8/27/87
DATE PREPARED

ENGINEER - IN - CHARGE

[Signature]
CHIEF, DIVISION OF FIELD OPERATIONS

8/28/87
DATE APPROVED

CHIEF, DIVISION OF SYSTEM PLANNING

cc: DIMARTINO
VOGEL
SKELLY
SYNEFAKIS
LUTFY
FILE

CONWAY
GAINER
GREELEY
SAIA
BERTINI
SUPT. ()

WATSON (N. O.)
ROMANO
SILINONTE
HALLIDAY
BORFITZ
YARD ()

OLIVERI
CAMPAGNA
URIKO
GORMANLY

COMM. BOARD ()
N. Y. C. T. A.
CON EDISON
B'KLYN UNION GAS
N. Y. TELEPHONE

(4)

ENVIRONMENTAL PROTECTION
BUREAU OF SEWERS

169758
P

TELEPHONE REPORT

Kaelin Nwosu
INVESTIGATOR

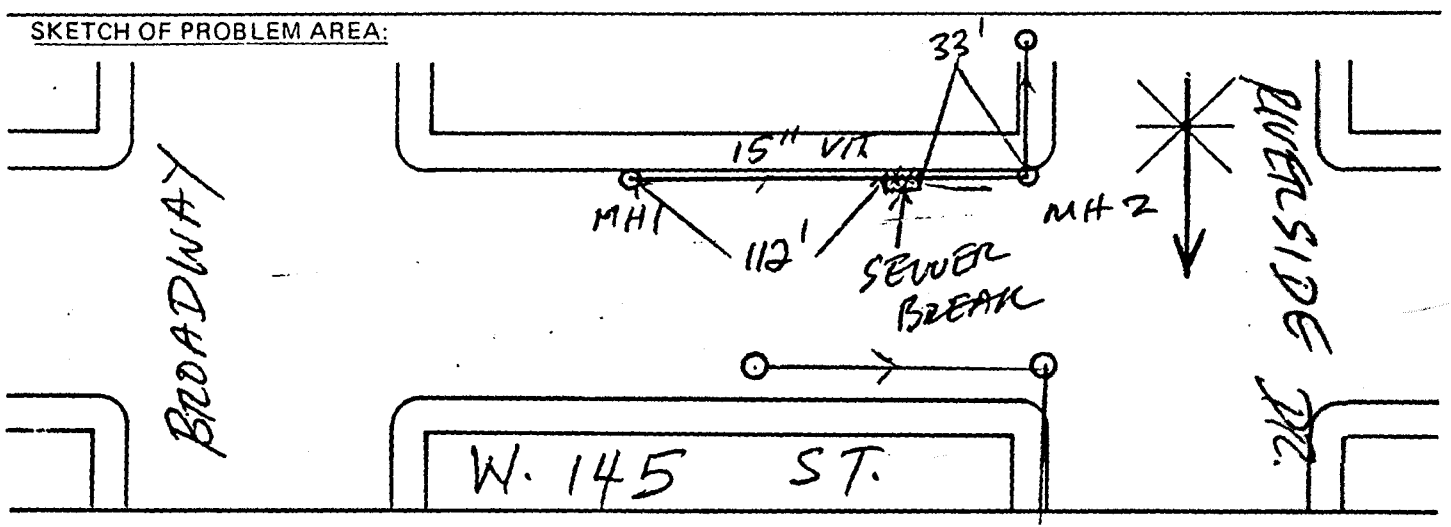
DATE: 8-29-87 TIME: _____

- | | | | |
|--|--|--|--|
| ☐ SEWER BACK-UP | ☐ CLOGGED BASIN | ☐ MISSING/BROKEN CASTINGS | SEWER: ☐ OBSTRUCTED |
| ☐ MANHOLE ODOR | ☐ BASIN ODOR | ☐ HOUSE LINE PROBLEM | ☐ RUNNING |
| ☒ OTHER <u>BROKEN SEWER</u> ☐ C.B. CONNECTION CLOGGED | | | |

OTHER PREMISES AFFECTED/INSPECTED: _____

REMARKS/RECOMMENDED ACTION: SEWAGE LEAK ON AMTRACK.
DYE TEST REVEALED A LEAK AT 112' FROM
M.H. 1 AND 33' FROM M.H. 2. REPAIR REQUESTED

SKETCH OF PROBLEM AREA:



COMPLAINT

- | | | |
|------------------------------------|---|--------------------------------|
| ☐ BROOKLYN | ☐ MANHATTAN | ☐ BRONX |
| ☐ TELEPHONE | ☐ QUEENS | ☐ S.I. |
| | ☐ DEPARTMENT ORDER | ☐ MAIL |

☐ WATER COMPLAINT NO.: 972062070 - 010557 OPERATOR NUMBER: 435

☒ SEWER DATE RECEIVED: 8/26/87 TIME RECEIVED: 09:47
PROGRAM WORK

COMPLAINANT'S NAME: _____ TELE: 212-2710240-8
REPRESENT: P W 1250 B'WAY

COMPLAINANT'S ADDRESS: _____ COMMUNITY BOARD # 09
WEST 145 STREET MANHATTAN NEW YORK

LOCATION OF COMPLAINT: ON WEST 145 STREET BETWEEN
RIVERSIDE DRIVE AND BROADWAY

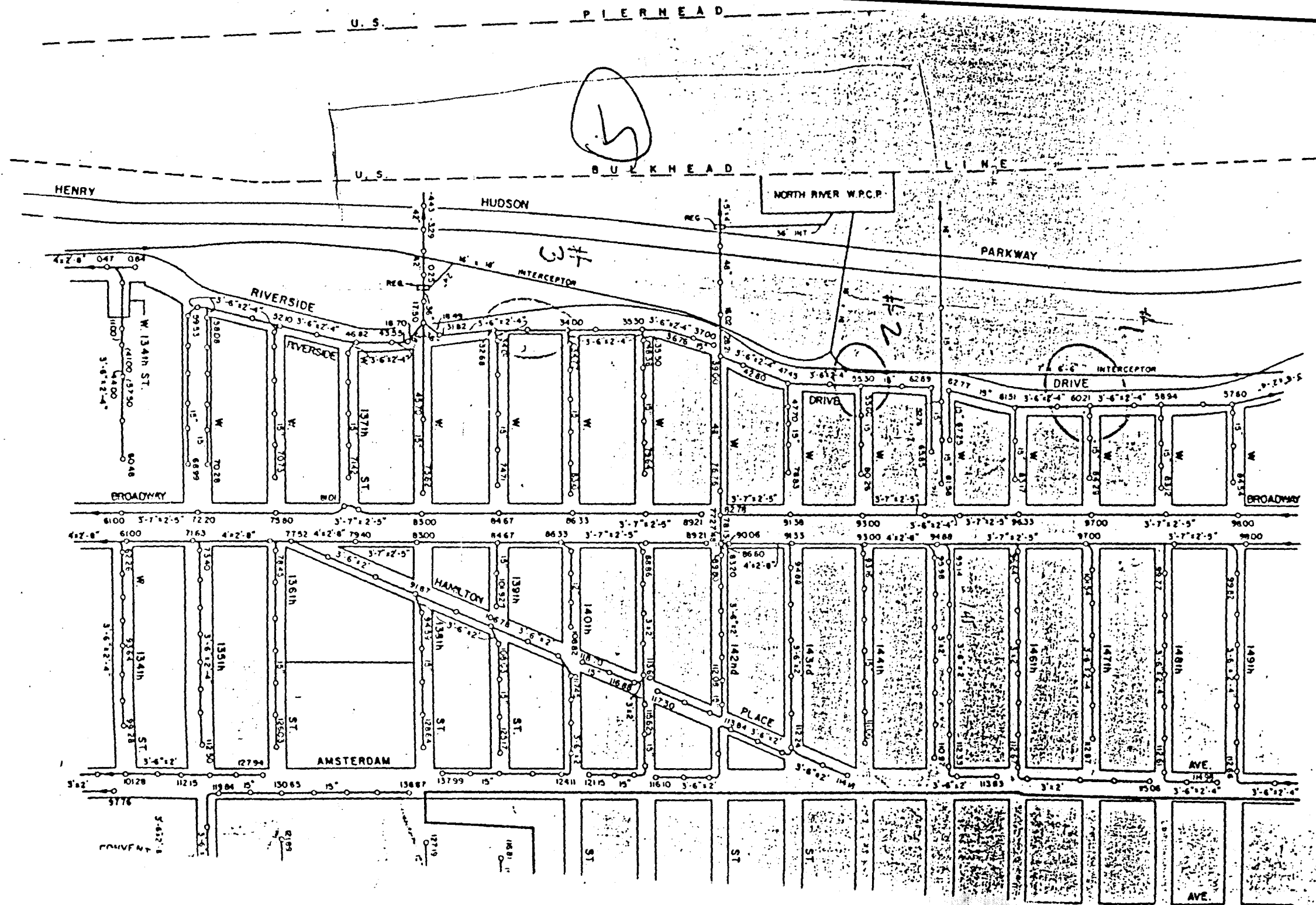
NATURE OF COMPLAINT: OTHER

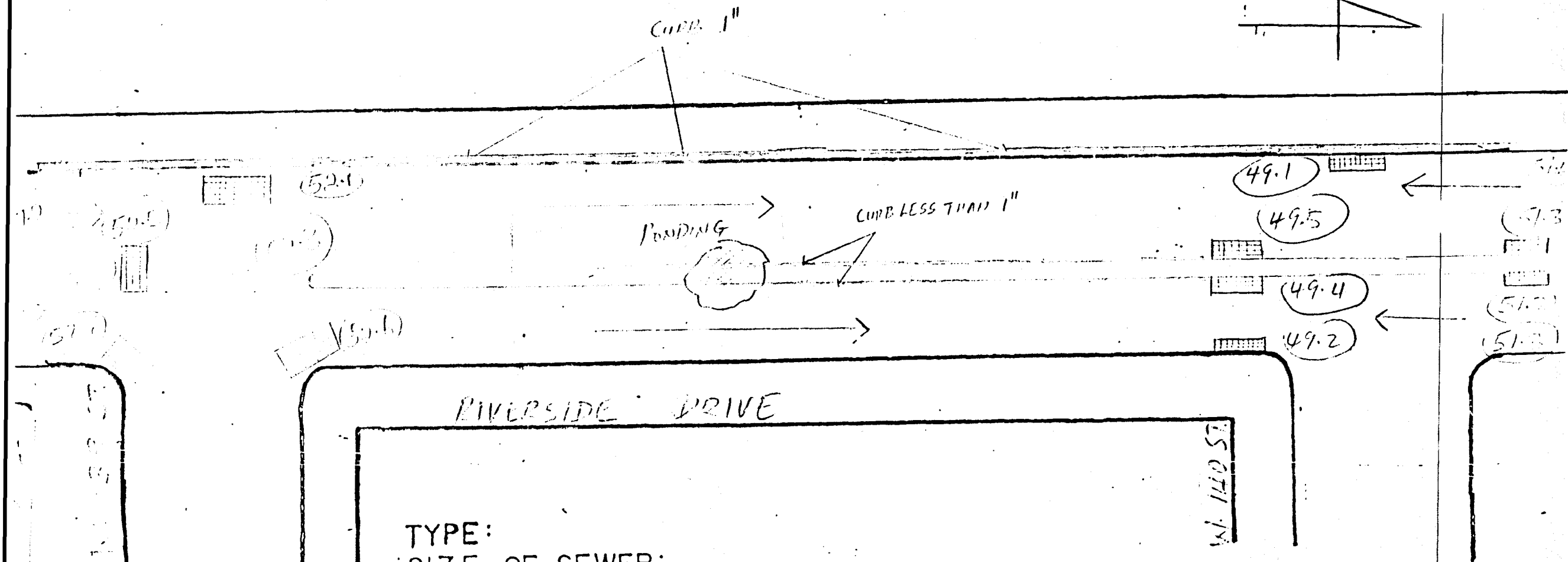
REMARKS: BROKEN SEWER

DISPATCHED BY: QA14 (REP. CO.) TO (DISTRICT): SM19

TIME: 09:47 DATE: 8/24/87 (REP. CO.) ☐ REDIRECT TO (DISTRICT): _____

Form No. CC-SWR Rev. (7-80)
3M 712100 (86)





TYPE:
SIZE OF SEWER:
DEPTH:

DATE _____

8-17-87

110705

FIELD OPERATION DIVISION
ENGINEERING UNIT

O → LEGAL CRAPDES.

→ ---→ PUMPED FLOW

[YH] ---> CATCH BASINS

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF WATER SUPPLY

BROADWAY

DRIVE

DEFECTIVE
DROPWELL
MANHOLE

TO BE CONNECTED TO THE
3'6" x 2'4" BRICK UNDER
CAPITAL PROTECT.

M.H.5

M.H.4

M.H.3

M.H.2

M.H.1

15"

21'
depth

17' depth

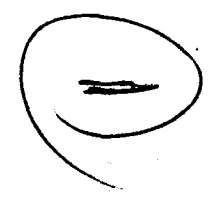
W. 147 ST.

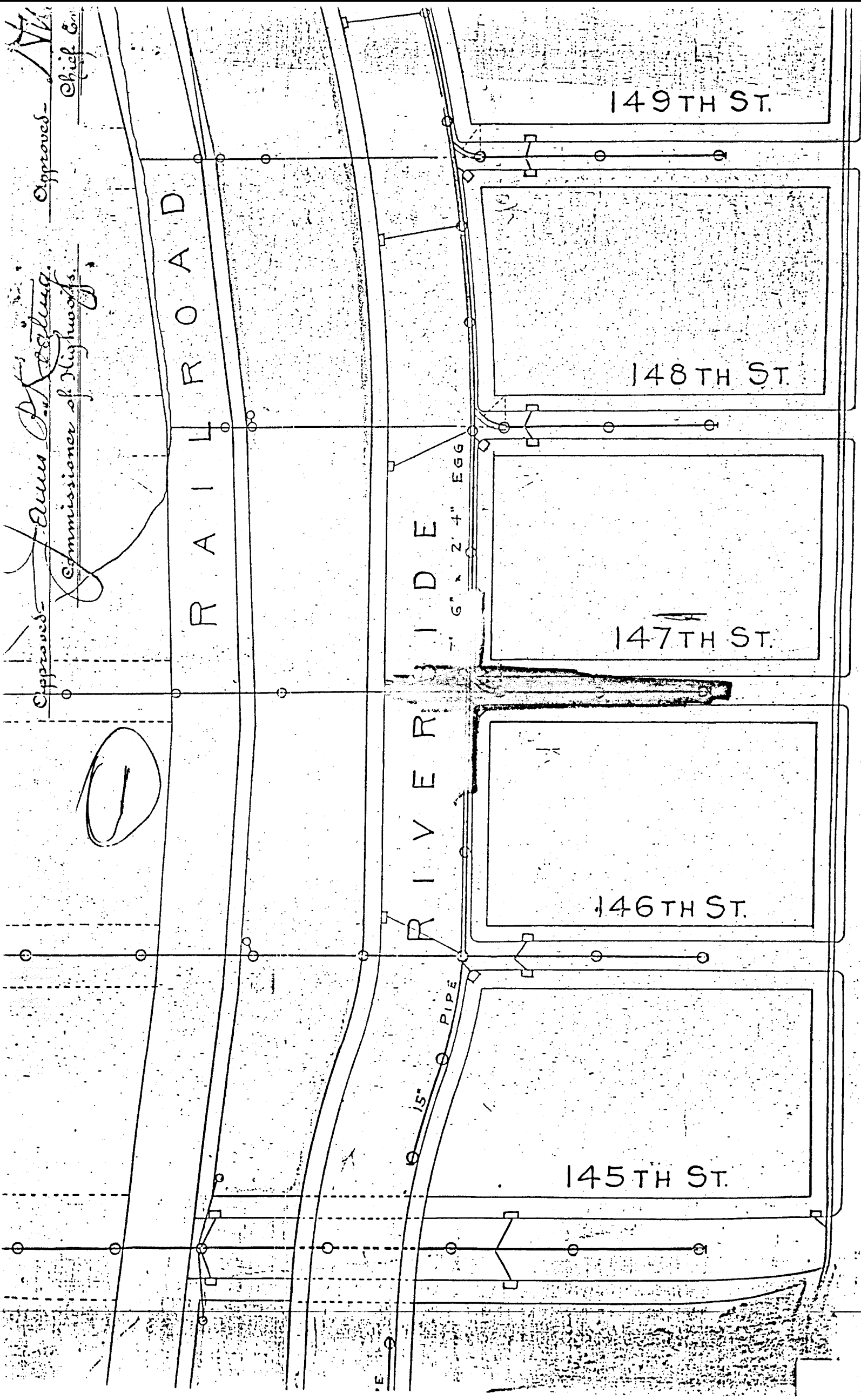
RIVERSIDE

TYPE: COMBINE VIT
SIZE OF SEWER: 15"
DEPTH: 21'

FIELD OPERATION DIVISION
ENGINEERING UNIT

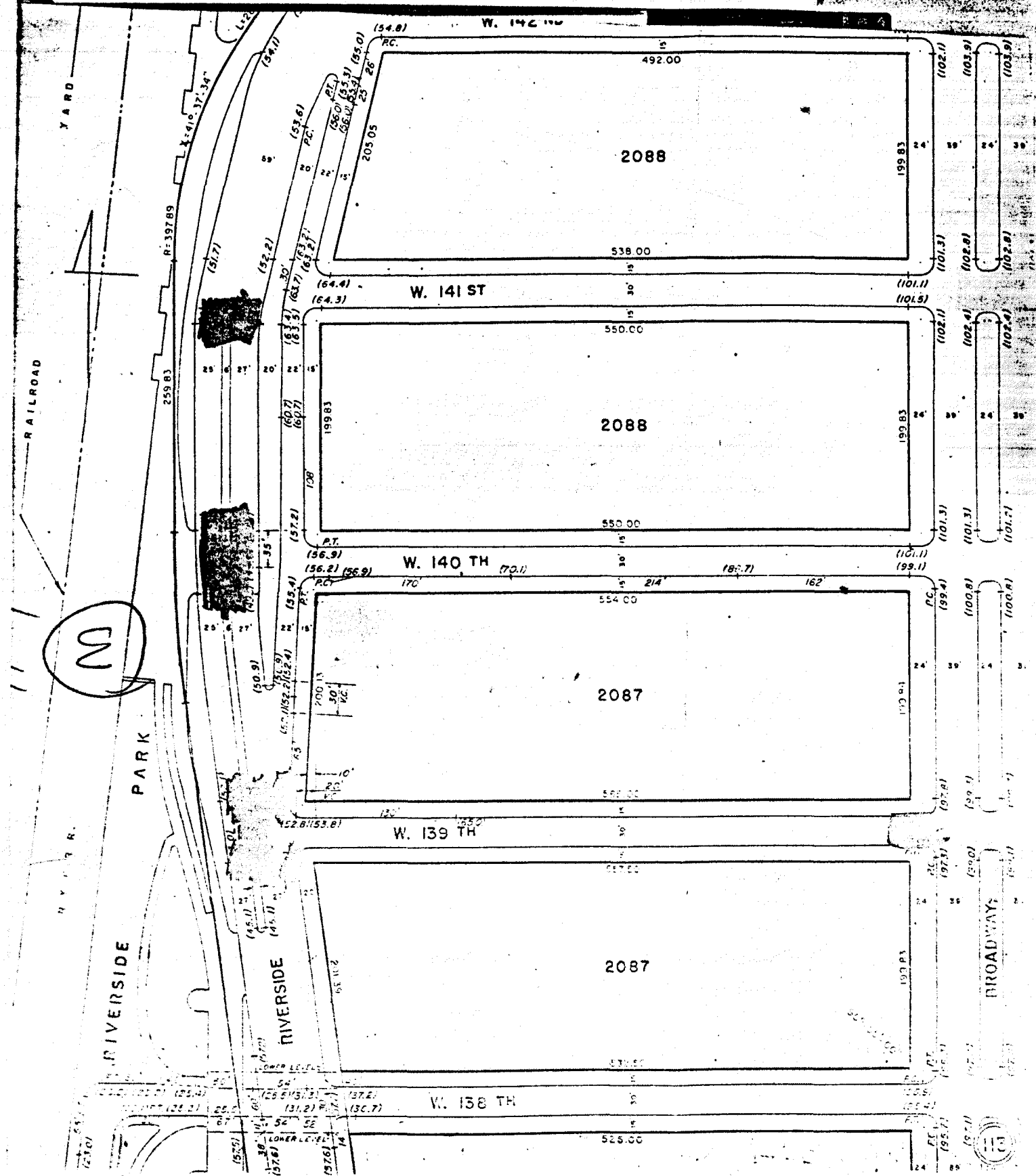
DATE _____





Approved - *James P. [Signature]*
Commissioner of Highways.

Approved - *[Signature]*
Chief En.



THE CITY OF NEW YORK ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS