

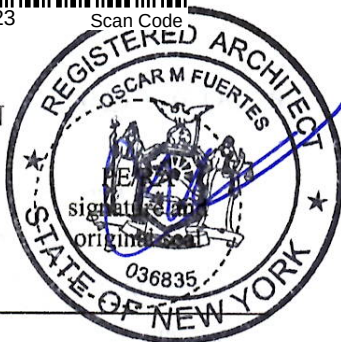


DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER & SEWER OPERATIONS

SITE CONNECTION PROPOSAL FORM

VALID FOR TWO (2) YEARS

6643 1



A. PROJECT DATA:

Borough of MANHATTAN Building Dept. No (s) 121203820
Tax Block 2123 Lot (s) 104 Zoning R7-2 Map No. 3b
Project Location 509 W 167 STREET
Applicant OSCAR M. FUERTES
Address 40 SEMON RD, HUNTINGTON NY Zip 11743 Phone (646) 244 1032
Owner ANTONIO ORDAS
Address 52 1st STREET, GARDEN CITY Zip 11530 Phone (917) 337 7259

B. PROJECT USE:

TYPE: ☐ 1, 2, 3, Family ☒ Multiple Dwelling ☐ Commercial
Number of Buildings 01 Total Number of Dwelling Units 6
Ownership: ☒ Fee Simple ☐ Condominium ☐ Home Owner Association ☐ Other.....

C. SITE CONNECTIONS REQUESTED:

Total Developed Site Storm Flow 0.193 cfs
Allow. Storm Flow to the Sewers 0.167 cfs

☒ Detention ☐ Retention

ROOF

	Sanitary	Storm	Comb.	Drywells
No. Requested	<u>X</u>	<u>X</u>	<u>1</u>	<u>xxxxxxx</u>
Size	<u>X</u>	<u>X</u>	<u>8"</u>	<u>xxxxxxx</u>
Material (s)	<u>X</u>	<u>X</u>	<u>XHCI</u>	<u>xxxxxxx</u>
Total Q (s)	<u>0.0099</u>	<u>0.167</u>	<u>0.176</u>	<u>xxxxxxx</u>

Note: The property owner is responsible for plugging all inactive pre-existing sewer connections

D. CONNECTION INFO:

- ☐ Connection to exist:
☐ Spur ☐ Riser ☐ Curb Connection
- ☐ Proposed New Riser
- ☐ Fold Spur in
- ☒ Drill in
- ☐ M.H. Conn. ☐ Exist. ☐ Prop.
- ☐ Reuse Plugged Connections

E. PRIVATE SEWER/DRAIN DATA:

- P.D. Plan No. N/A Date Approved _____ Expiration Date _____
- Date Construction Permit Was Issued _____
- Date Sewer Was Accepted By DEP _____
- Sanitary Discharge Tributary to:

	☐ No	☐ Yes	Location
Private Sewage Treatment Plant	☐ No	☐ Yes	_____
Private Pumping Station	☐ No	☐ Yes	_____
Private Sewer	☐ No	☐ Yes	_____

F. LOCATION PLAN:

- ☐ As Shown Below ☒ See Attached Location Plan Attachment "F" (8 1/2 x 14 Size)

SITE STORM FLOW OF 0.193 WILL BE RESTRICTED TO 0.167 BY MEANS OF ROOF DETENTION AND CONTROLLED FLOW DEVICES.

G. SUPPORT DOCUMENTS:

- *1. Site Plan – 6 copies with hydraulic calculations ATTACHED
- *2. Survey – 3 copies with watercourse note ATTACHED
- *3. Tentative Lot Number Request Form – Attached _____ Not Applicable X
- **4. Owner's Consent for STP/PS Connection – Attached _____ Not Applicable X
5. Department of Health Approval – Attached _____ Not Applicable X
6. Department of Buildings Amendment – Attached _____ Not Applicable X
- ***7. Condo/HOA Prospectus or Affidavit – Attached _____ Not Applicable X
8. Industrial Waste Approval – Attached _____ Not Applicable X
9. Associated Mapping/Demapping Action – Attached _____ Not Applicable X
10. Builders Pavement Plan – Attached _____ Not Applicable X
11. Boring Logs – Attached ATTACHED _____ Not Applicable _____
12. Other (Specify) _____ Attached N/A

* Requires PE/RA Stamp and Original Signature (L.S. for Survey)

** Must Be Notarized and have Corporate Seal

*** Must be Notarized

SEWER INFORMATION CERTIFIED BY DEP

- | | | <u>PUBLIC</u> | <u>PRIVATE</u> |
|---|-----------------|---------------|----------------|
| 1. There <u>(is)</u> (is not) a sanitary sewer fronting the property available for connections. | SIZE _____ | _____ | _____ |
| 2. There <u>(is)</u> (is not) a storm sewer fronting the property available for connections. | SIZE _____ | _____ | _____ |
| 3. There <u>(is)</u> (is not) a combined sewer fronting the property available for connections. | SIZE <u>φ15</u> | <u>✓</u> | _____ |

4. Sanitary discharge tributary to:

City Treatment Plant -

☐ NO

☒ YES

Location

WARDS ISLAND

Private Sewage Treatment Plant -

☒ NO

☐ YES

Private Pumping Station -

☒ NO

☐ YES

5. Distance to, and location of nearest allowable drainage plan sewer:

a) Sanitary Outlet _____

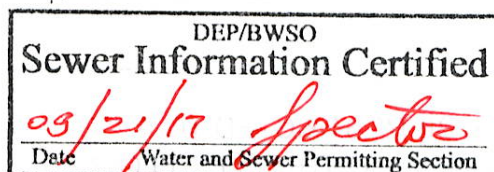
b) Storm Outlet N/A

c) Combined Outlet _____

CERTIFICATION, RESTRICTIONS, SPECIAL CONDITIONS:

No sewer connection permits will be issued until:

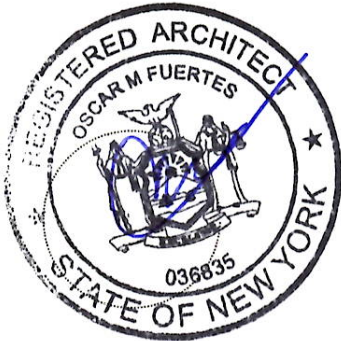
*the Building Department certifies that the storm flow detention and retention facilities have been satisfactorily built;



THIS CERTIFICATION IS VALID
FOR TWO (2) YEARS ONLY

ADDITIONAL INFORMATION, COMMENTS BY DEP OFFICE:

1. Topo Map No. _____ Watercourse shown: ☐ YES ☐ NO
2. Comments:



ATTACHMENT "F"

LOCATION PLAN:

DEP/BWSO
Sewer Information Certified
09/21/17
Date Water and Sewer Permitting Section

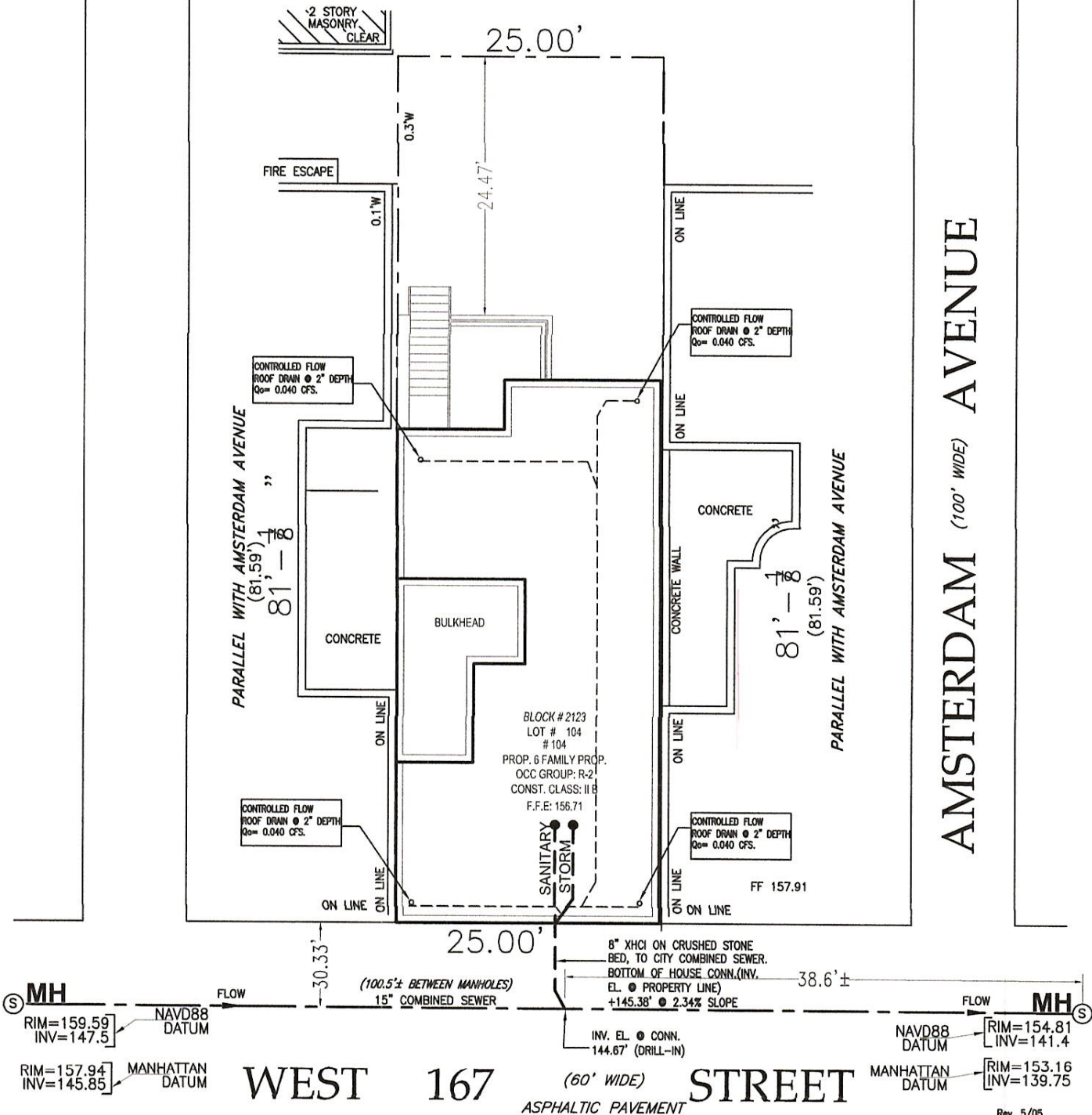
#6643

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BY MEANS OF ROOF DETENTION AND CONTROLLED FLOW DEVICES.

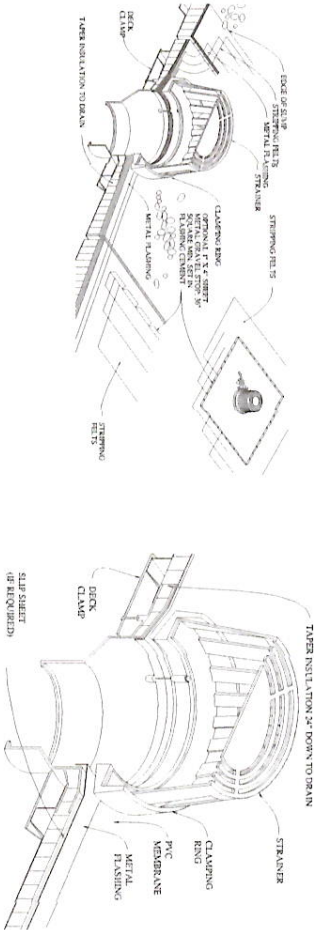
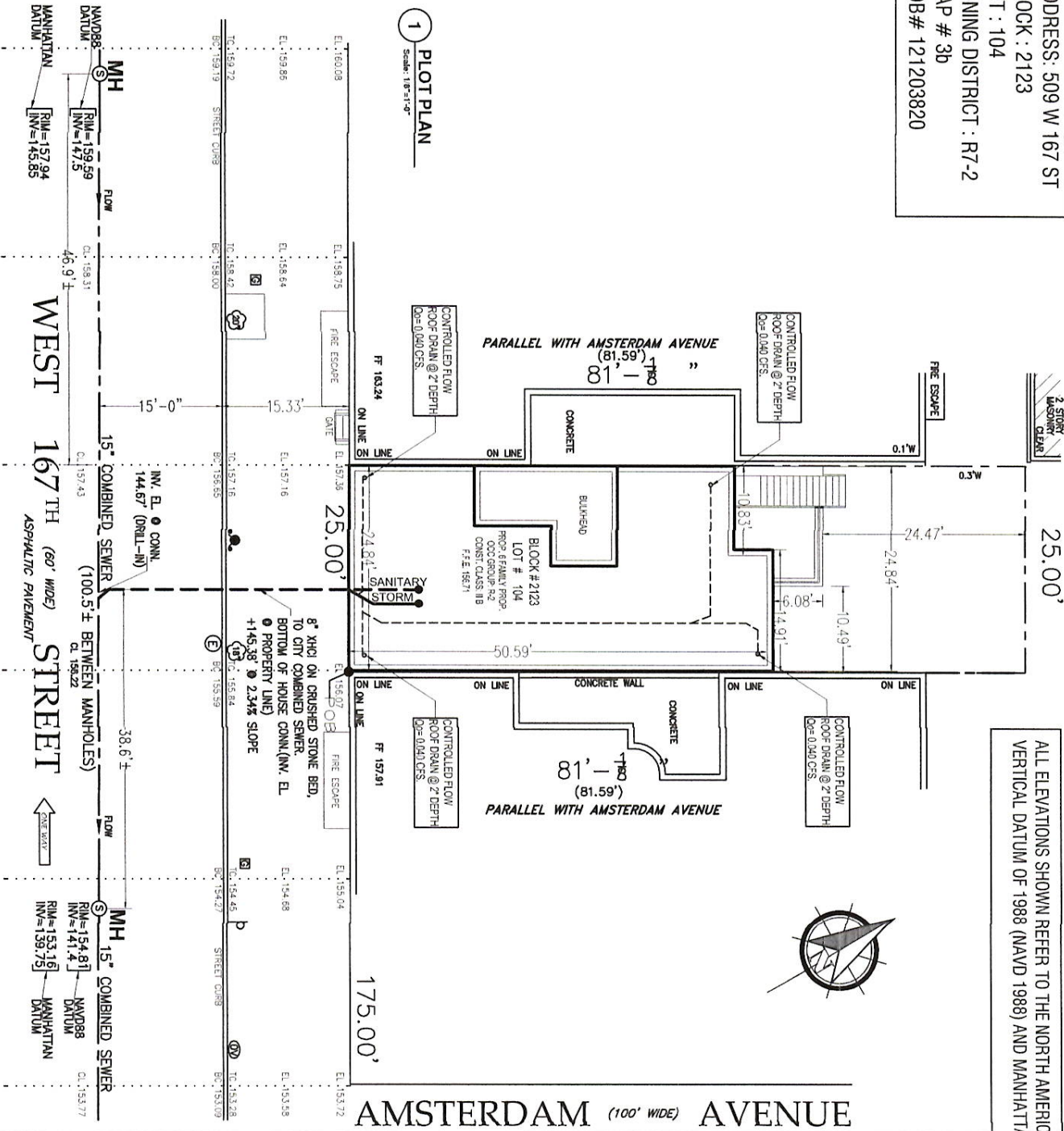
ADDRESS: 509 W 167 ST
BLOCK : 2123
LOT : 104
ZONING DISTRICT : R7-2
MAP # 3b
DOB# 121203820

ALL ELEVATIONS SHOWN REFER
TO THE NORTH AMERICAN
VERTICAL DATUM OF 1988
(NAVD 1988) AND MANHATTAN
DATUM



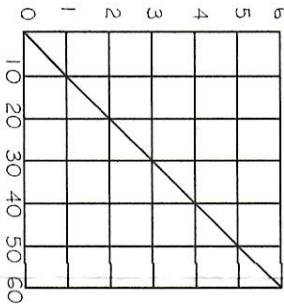
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FLOW RATE VS. BUILD-UP - ONE WEIR

Depth - Inches	2	3	4	5	6
Flow - GPM/FT.	9.2	13.6	23.4	43.1	60.0



SANITARY DISCHARGE, Q_{san}

FOR R7 ZONE (POPULATION DENSITY = 230)

LOT AREA = 25.0x81.59 = 2,039.75s.f. = 0.0468ac.

SANITARY FLOW $Q = \left[\frac{7.48 \times A_{LOT} \times 150 \times 4}{230 \times 0.0468 \times 150 / 7.48 \times 86,000} \right] \times 4$
= 0.0099cfs

ALLOWABLE STORM FLOW, Q_{all}

$Q_{allow} = A_s / 12,200$
= 2,039.75/12,200 = 0.167 cfs
= 0.167 cfs < 0.25 cfs (site stormwater release rate)
THEN USE ALLOWABLE FLOW.

TOTAL DEVELOPED SITE STORM FLOW, Q_T

ROOF AREA = 1,225.74 sf @ 0.95
GRASS AREA = 671.61 sf @ 0.20
PAVED AREA = 142.4 sf @ 0.85

$Q_{roof} \approx 0.95 \times 5.95 \times 0.0281 = 0.1588\text{cfs}$
 $Q_{grass} = 0.20 \times 5.95 \times 0.0154 = 0.0183\text{cfs}$
 $Q_{paved} = 0.85 \times 5.95 \times 0.0032 = 0.0162\text{cfs}$
 $Q_{TOTAL} (ACTUAL) = 0.193\text{cfs}$

$CWS = [(1,225.74/0.95 + (142.4/0.85 + (671.61/0.20)/7.320)/2.039.75 = 0.696$

$Q_{ALL} = 2,039.75/12,200 = 0.167 \text{ cfs}$

$Q_{DEV} = [(1,225.0/0.95 + (142.4/0.85 + (67.61/0.20)/7.320)/2.039.75 = 0.193 \text{ cfs}$

$Q_{DDR} = 0.25 \text{ cfs or } 10\% \text{ OF ALLOWABLE STORM FLOW}$
 $Q_{all FROM ROOF} = 0.167 \text{ CFS} - 0.0345 \text{ CFS} = 0.132 \text{ CFS}$

RESTRICTED ROOF TO 0.132 cfs WITH 4 DRAINS WITH 1 WEIR EACH
JR SMITH @ (4) 2" DEPTH @ 18.4 GPM PER INCH
AT = 1,225.74 SF
 $TV = 0.27 [(CWTAT)/Q_{DDR}] - 15$

$TV = 0.27 [(0.95)(1,225.74/0.132)] - 15$
 $TV = 10.35 \text{ min.}$
 $V_v = [0.19 CWTAT / (TV + 15) - 40 DDR] TV$
 $V_v = [(0.19)(0.95)(1,225.74)/(10.35 + 15) - 40(0.132)] 10.35 = 31.09 \text{ cu ft.}$

THE VOLUME PROVIDED IS EQUAL TO OR GREATER THAN 31.09 cu ft. AND THE ACTUAL RELEASE RATE FROM THE ROOF DOES NOT EXCEED 0.132 cfs.

$V_v : 31.09 \text{ CF}$
 $VAC : 1,225.74 \times 0.16 = 196.11 \text{ CF}$
 $VAC > V_v$
 $\therefore 196.11 \text{ CF} > 31.09 \text{ CF} \therefore \text{OK}$

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COMBINED CONNECTION
TO EXISTING 15" COMBINED SEWER.

MH#1: RIM: 159.59' INV: 147.50'
MH#2: RIM: 154.81' INV: 141.40'
SLOPE = 147.50'-141.40'/100.5' = 0.0606/FT.

$141.40' + (0.0606 \times 38.6') + (0.75 \times 15/12) = 144.67'$
INV. EL. @ CONNECTION = 144.67' (DRILL-IN)

@ EL. OF BOTTOM OF HOUSE SEWER AT PROPERTY LINE = 145.38'
SLOPE = 145.38'-144.67'/30.33' = 0.0234 = 2.34% .OK

DEP/BWSO
Sewer Information Certified
09/21/17
Water and Sewer Permitting Section

#6643

THIS CERTIFICATION IS VALID
FOR TWO (2) YEARS ONLY

Oscar M. Fuertes
ARCHITECTURE

OSCAR FUERTES P.A.
40 BOND ST. MANHATTAN NY 10013
TEL: 646-344-1022

REVISIONS	DATE	BY

DRAWING TITLE:

SD1 & 2

PROJECT:

NEW 6 STORY
RESIDENTIAL BUILDING

PROJECT ADDRESS:

509 W 167 ST
MANHATTAN, NEW YORK

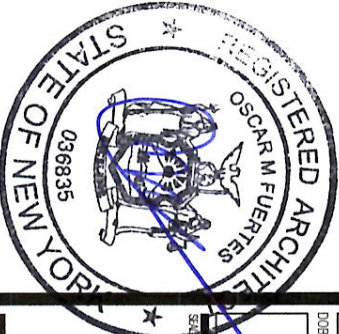
DEPT. BUDG Job No. 121203820

Scan Code ESHS4489564



DOB BSCJAN STIKER :

DOB BSCJAN STIKER :



DATE	3-25-17
PROJECT NO.	01-15
DRAWN BY	OF
CHECKED BY	OF
DATE	10/15
1 OF 1	