



October 25, 2017

Ryusei Matsumoto, P.E.
Hidamari Engineering Services, P.C.
33-70 Prince Street, Suite 702
Flushing, NY 11354

Re: 6440 -296, 296 REAR, 298, 300 St. Nicholas Avenue-1; Site Connection
Proposal; Block: 3338, Lot(s): 30-33; Borough of Brooklyn.

Vincent Sapienza, P.E.
Commissioner

Dear Mr. Matsumoto:

Anastasios Georgelis, P.E.
Acting Deputy Commissioner
Bureau of Water and
Sewer Operations
TasosG@dep.nyc.gov

This office has completed its review of the referenced site connection proposal application submitted with your letter received on October 5, 2017 and has certified it. Copies of the certified forms for the owner, the NYC Department of Buildings (DOB), and the applicant have been sent to the Borough of Brooklyn Local Records Office of the Department of Environmental Protection (DEP). A copy of the same has been sent to the Site Connection Inspection Unit of the DEP as well.

59-17 Junction Boulevard
Flushing, NY 11373

watersewerplanning@dep.nyc.gov

Very truly yours,

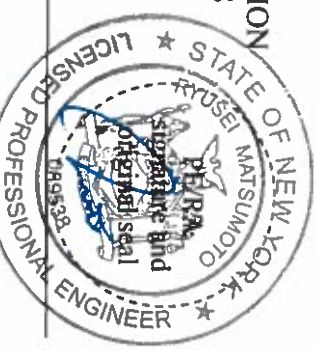
Vincent Malveaux
Engineer - in - Charge
Site Connection Review Unit

cc: Guo Zhan Wu, P.E., Chief of Site Connection, Green Infrastructure, and
Plan Review
Vincent Malveaux, Engineer-in-Charge, Site Connection Unit
Mark Safari, P.E., Chief, Construction & Permitting
Selim Andrawis, P.E., Brooklyn Local Office
File: JG/jg



DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER & SEWER OPERATIONS

SITE CONNECTION PROPOSAL FORM
VALID FOR TWO (2) YEARS
[#6440]



A. PROJECT DATA:

Borough of Brooklyn Building Dept. No (s) 321193221,321193212,321193209,321193828
Tax Block 3338 Lot (s) 30,31,32,33 Zoning R6 Map No. 13d
Project Location 296, 296 REAR, 298, 300 St. Nicholas Avenue, Brooklyn, NY 11237
Applicant Ryusei Matsumoto, PE
Address 33-70 Prince Street, Ste. #702, Flushing, NY Zip 11354 Phone (917) 915-6101
Owner Thomas Finnican, 300 St. Nicholas, LLC
Address 144 N 7th Street, Suite #408, Brooklyn, NY Zip 11249 Phone (646) 688-5144

B. PROJECT USE:

TYPE: ☐ 1, 2, 3, Family ☒ Multiple Dwelling ☐ Commercial
Number of Buildings 4 Total Number of Dwelling Units 10
Ownership: ☒ Fee Simple ☐ Condominium ☐ Home Owner Association ☐ Other.....

C. SITE CONNECTIONS REQUESTED:

Total Developed Site Storm Flow 0.8081 cfs
Allow. Storm Flow to the Sewers 0.4310 cfs
☒ Detention ☐ Retention

	<u>Sanitary</u>	<u>Storm</u>	<u>Comb.</u>	<u>Drywells</u>
No. Requested	<u>xxxxxx</u>	<u>xxxxxx</u>	<u>4</u>	<u>xxxxxxx</u>
Size	<u>xxxxxxx</u>	<u>xxxxxxx</u>	<u>6"</u>	<u>xxxxxxx</u>
Material (s)	<u>xxxxxxx</u>	<u>xxxxxx</u>	<u>XHCI</u>	<u>xxxxxxx</u>
Total Q (s)	<u>0.0275</u>	<u>0.431</u>	<u>0.4585</u>	<u>xxxxxxx</u>

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

D. CONNECTION INFO:

1. ☐ Connection to exist:
☐ Spur ☐ Riser ☐ Curb Connection
2. ☒ Proposed New Riser (On St. Nicholas Avenue)
3. ☐ Fold Spur in
4. ☒ Drill in (On Linden Street)
5. ☐ M.H. Conn. ☐ Exist. ☐ Prop.
6. ☐ Reuse Plugged Connections

(DEP
Standard)

E. PRIVATE SEWER/DRAIN DATA:

1. P.D. Plan No. N.A. Date Approved N.A. Expiration Date N.A.
2. Date Construction Permit Was Issued N.A.
3. Date Sewer Was Accepted By DEP N.A.
4. Sanitary Discharge Tributary to:
- | | | | | |
|--------------------------------|-----------------------------|------------------------------|-------------|----------|
| Private Sewage Treatment Plant | ☐ No | ☐ Yes | <u>N.A.</u> | Location |
| Private Pumping Station | ☐ No | ☐ Yes | <u>N.A.</u> | |
| Private Sewer | ☐ No | ☐ Yes | <u>N.A.</u> | |

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

TOTAL ROOF FLOW OF 0.7218 CFS WILL BE RESTRICTED TO 0.3447 CFS BY
MEANS OF DETENTION FACILITIES AND CONTROLLED FLOW DEVICES.

G. SUPPORT DOCUMENTS:

- *1. Site Plan – 6 copies with hydraulic calculations X
- *2. Survey – 3 copies with watercourse note X
- *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 Not Applicable X
- 12. Other (Specify) Attached

* Requires PE/R.A Stamp and Original Signature (L.S. for Survey)
** Must Be Notarized and have Corporate Seal
*** Must be Notarized

SEWER INFORMATION CERTIFIED BY DEP

PUBLIC PRIVATE

- 1. There ~~(is)~~ (is not) a sanitary sewer fronting the property available for connections. SIZE
- 2. There ~~(is)~~ (is not) a storm sewer fronting the property available for connections. SIZE
- 3. There ~~(is)~~ ~~(is not)~~ a combined sewer fronting the property available for connections. SIZE 12" (Linden St) X
180" (St. Nicholas Ave)
- 4. Sanitary discharge tributary to:

City Treatment Plant - ☐ NO

Private Sewage Treatment Plant - ☒ YES

Private Pumping Station - ☒ YES

☒ YES

☐ YES

☐ YES

Newtown Creek

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

a) Sanitary Outlet

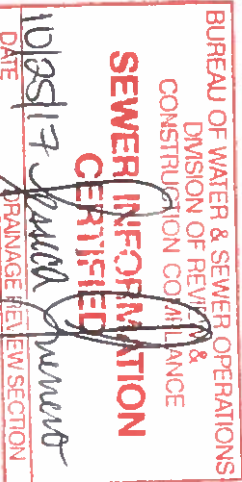
b) Storm Outlet

c) Combined Outlet

NA

CERTIFICATION, RESTRICTIONS, SPECIAL CONDITIONS:

- No sewer connection permits will be issued until the DOB certifies that the detention facility has been satisfactorily built
- No connection permits will be issued until the Department of Finance certifies the final tax lots and the permittee shall submit to the local office proof that the lots have been finalized.



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:

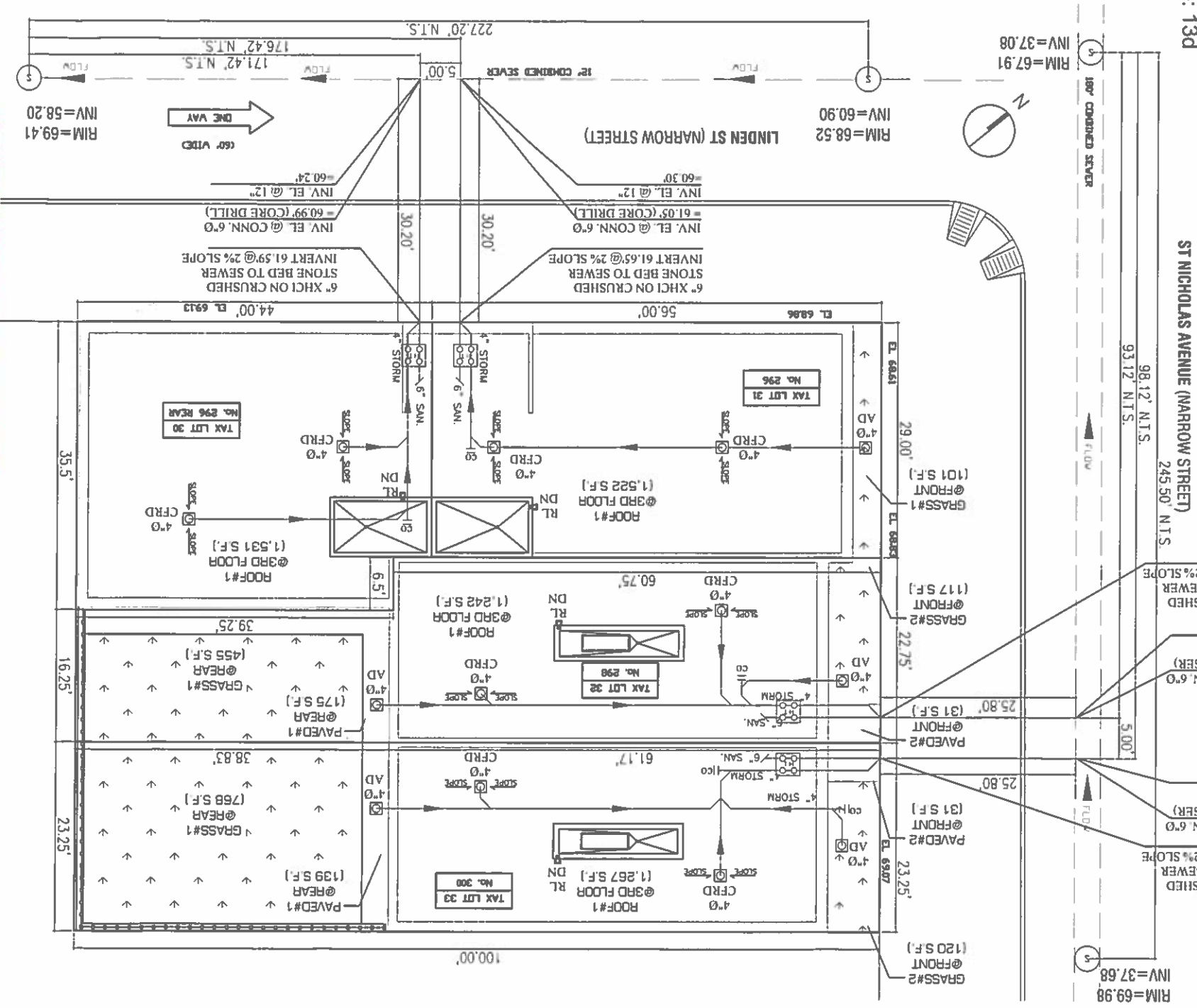
LOCATION PLAN:

DEP ID# 6440

ATTACHMENT "F"



DOB# 321193221,321193212,321193203,321193828
BLOCK: 3338
LOT: 30,31,32,33
Zone: R6
Map: 13d



BUREAU OF WATER & SEWER OPERATIONS
DIVISION OF REVENUE &
CONSTRUCTION COMPLIANCE
SEWER INFORMATION
CERTIFIED
DATE: 10/25/17
signature
DRAINAGE REVIEW SECTION

safely service integrity

THIS CERTIFICATION IS VALID
FOR TWO (2) YEARS ONLY

SD 1&2
Location: 296 R ST. NICHOLAS AVE., BROOKLYN, NY 11237
Tax Block: 3338
Tax Lot: 30
Zoning Map No.: 130
Zoning District: R6

Storm and Sewage Flow Calculations:

A. Actual Storm Drainage (Q = AIC)
Area of Site = 1,531 sq. ft. 0.0351 acres

a. ROOF AREA	
Roof 1 =	1,531 sq. ft.
Roof 2 =	0 sq. ft.
Roof 3 =	0 sq. ft.
Roof 4 =	0 sq. ft.
Roof 5 =	0 sq. ft.
Total	1,531 sq. ft.

$1,531 \times 5.95 \times 0.95 = 0.1987$ cfs

b. PAVED AREA	
Paved 1 =	0 sq. ft.
Paved 2 =	0 sq. ft.
Paved 3 =	0 sq. ft.
Paved 4 =	0 sq. ft.
Paved 5 =	0 sq. ft.
Total	0 sq. ft.

$0 \times 5.95 \times 0.85 = 0.0000$ cfs

c. GRASS AREA	
Grass 1 =	0 sq. ft.
Grass 2 =	0 sq. ft.
Grass 3 =	0 sq. ft.
Grass 4 =	0 sq. ft.
Total	0 sq. ft.

$0.0 \times 5.95 \times 0.20 = 0.0000$ cfs

Total Developed Storm Water Flow = 0.1987 cfs

A-1. Unrestricted Flow

a. ROOF AREA	
Roof 1 =	0 sq. ft.
Roof 2 =	0 sq. ft.
Roof 3 =	0 sq. ft.
Roof 4 =	0 sq. ft.
Roof 5 =	0 sq. ft.
Total	0 sq. ft.

$0 \times 5.95 \times 0.95 = 0.0000$ cfs

b. PAVED AREA	
Paved 1 =	0 sq. ft.
Paved 2 =	0 sq. ft.
Paved 3 =	0 sq. ft.
Paved 4 =	0 sq. ft.
Paved 5 =	0 sq. ft.
Total	0 sq. ft.

$0 \times 5.95 \times 0.85 = 0.0000$ cfs

c. GRASS AREA	
Grass 1 =	0 sq. ft.
Grass 2 =	0 sq. ft.
Grass 3 =	0 sq. ft.
Grass 4 =	0 sq. ft.
Total	0 sq. ft.

$0.0 \times 5.95 \times 0.20 = 0.0000$ cfs

Total Unrestricted Storm Water Flow = 0.0000 cfs

ROOF FLOW OF UNRESTRICTED STORM FLOW OF 0.1987 CFS WILL BE RESTRICTED TO 0.0000 CFS BY MEANS OF DETENTION FACILITIES. 0.0000 CFS WILL DIRECT DISCHARGE TO THE SEWER.

B. Sanitary Drainage Calculation: Flow for Commercial Zone C-2 to be included with Residential R6 Zone.

Peak Flow = 170 persons/acre $\times$ 0.0373 acres $\times$ 150 gal/person/day $\div$ 4 = 0.0099 cfs

C. Allowable Storm Flow Calculation (Qall):

Qall = 1531 / 17,400 = 0.0880 cfs > 0.0880 cfs
Qall = Allowable flow is less than 0.25 cfs, thus the stormwater release rate shall be the allowable flow.

D. Detention Facility Calculations:

ROOF DETENTION VOLUME CALCULATION (VARIABLE OUTFLOW)	
Total Tributary Area	1,531 sq. ft. Qall (roof) = 0.0880 cfs
Area Unavailable for Detention	268 sq. ft. (Parapet Walls = 175 S.F. Bulkhead = 93 S.F.)
Total Area Available for Detention	1,263 sq. ft.
# of Drains	2 drains avg. w/h/dm. 22.50 ft
# of Weirs	1 weir avg. lgh/dm. 28.00 ft
gpm/in./weir	9 gpm slope 0.125 in./ft.
Height of Secondary Drain	4 in. DRF in. 1.76 in.
Max. SD-in.	2.30 in. DPyr-in. 1.40 in.
Vv =	87 cf (Volume Required)
Va =	119 cf (Volume Provided)

CONTROLLED FLOW ROOF DRAIN SCHEDULE

Manufacturer	JAY R. SMITH	Large special purpose roof drains
Model #	1003	
Quantity	2	Water Height = 2.2 in.
Flow @ 2.62" of rain	39.6 gpm	As per Manuf. Data 9 gpm/in.

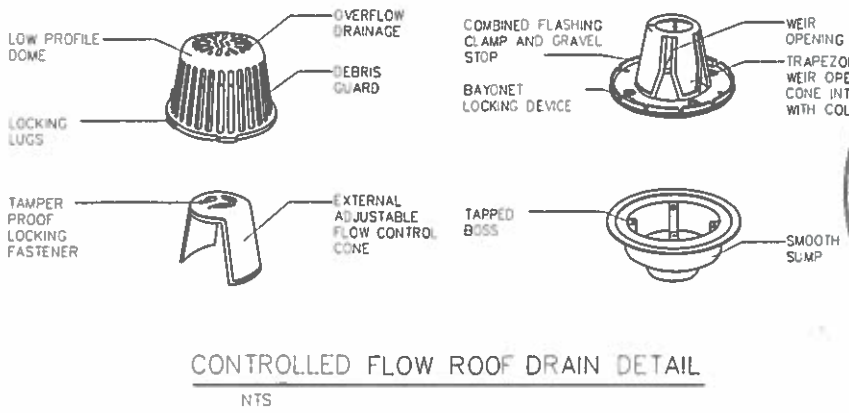
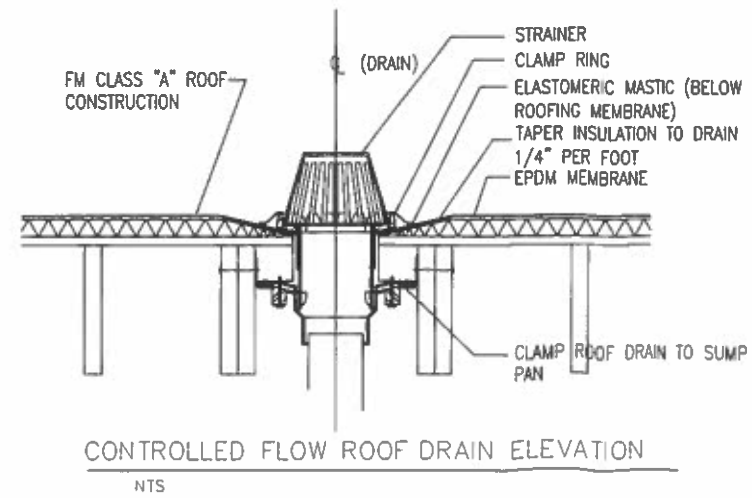
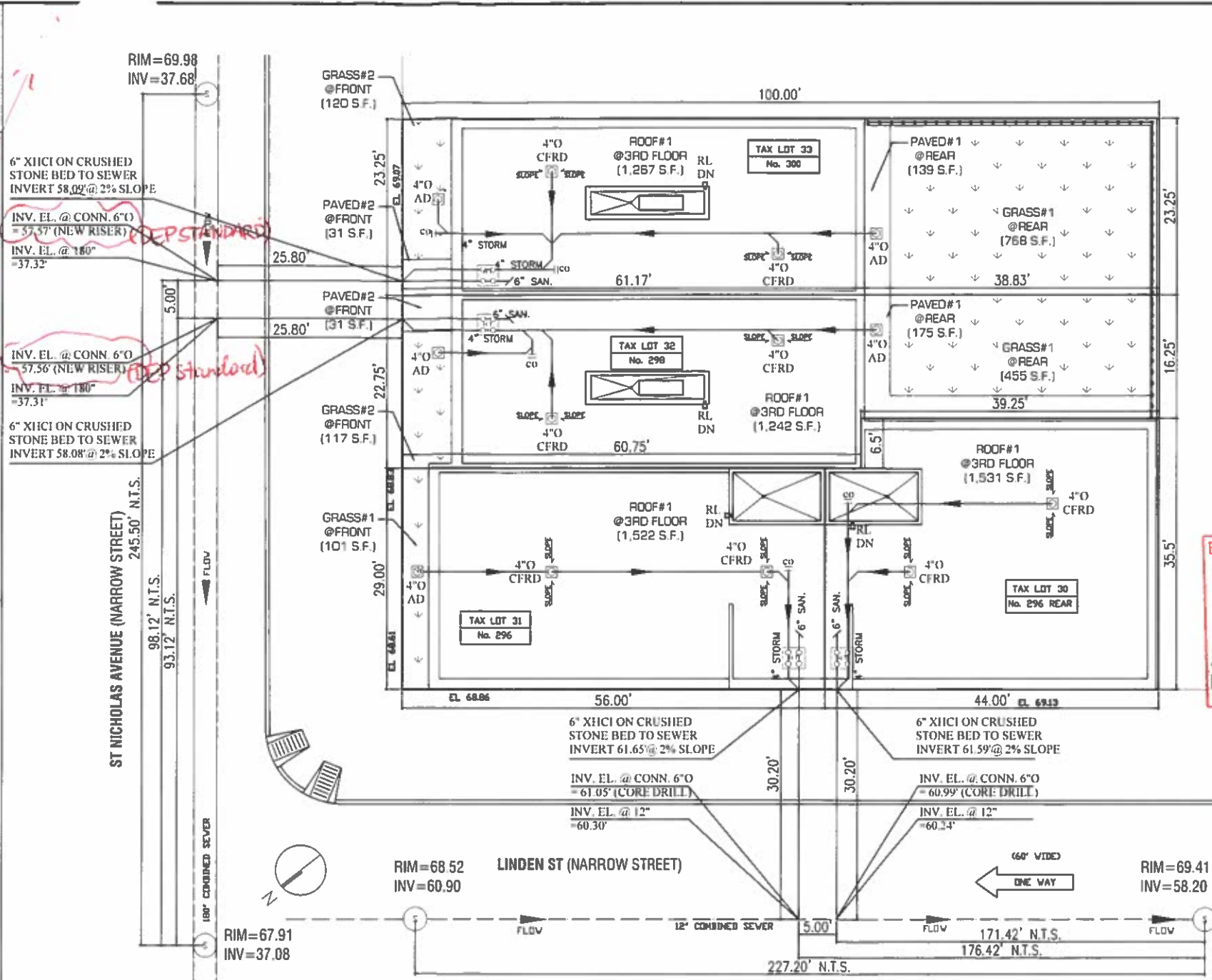
Total Restricted Flow will be 0.088 = 0.088 cfs allowable. Therefore acceptable.

NEW 6" COMBINED CONNECTION

TO EXISTING 12" COMBINED SEWER

MH#1: RIM=67.91' INV=60.90'
MH#2: RIM=69.41' INV=58.20'
SLOPE = (60.9' - 58.2')/227.20' = 0.0119
58.20' + (0.0119 x 171.42') + (0.75 x 12/12) = 60.99'
INV. EL. @ CONNECTION = 60.99' (CORE DRILL)

EL. OF BOTTOM OF HOUSE SEWER = 61.59' @ PROPERTY LINE
SLOPE = (61.59' - 60.99')/30.20' = 0.02 = 2%



HIDAMARI Engineering, PC
33-70 Prince Street, Ste. 702
Flushing, NY 11354
Tel: 718.475.2674
Fax: 718.257.4116

FOR OFFICE USE
Rev. 3 Initial release

DOB JOB #'s:
321193221
321193212
321193203
321193828

DEP ID#: 6440

BUREAU OF WATER & SEWER OPERATIONS
DIVISION OF REVIEW & CONSTRUCTION COMPLIANCE
SEWER INFORMATION CERTIFIED
10/25/17 Jessica Grenier
DATE DRAINAGE REVIEW SECTION

THIS CERTIFICATION IS VALID FOR TWO (2) YEARS ONLY

Project location:
300, 298, 296 REAR ST. NICHOLAS AVE.
BROOKLYN, NY 11237

Project owner and address:
300 ST. NICHOLAS, LLC
144 N 7TH STREET SUITE 408
BROOKLYN, NY 11249

Project name/description:
PROPOSED 3 STORY & CELLAR
2-3 FAMILY RESIDENTIAL
BUILDING

Drawing name:

STORM AND SEWER CONNECTION (SITE CONNECTION)

State of New York
Professional Engineer
R. MATSUMOTO
089538
Date: 07.26.2017
Project No.:
Drawn by: Z.W.
Checked by: R.M.
Scale: 1/32\"/>

