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SPECIFICATION: G-8217-4a

TITLE: FLOOD-PRONE AREAS FOR THE
INSTALLATION OF GAS SERVICE
REGULATOR VENT LINE PROTECTORS
(VLPs)

VOLUME: 2 (Section 12.0), 4, and [Yellow Book](#)

COURSE ID: [GAS5007](#)

★ **REQUIRED TRAINING
GROUPS:**

Gas Distribution Services (GDS), Gas
Measurement, All Gas Engineering
Designers & Engineering Supervisors, and
Gas Customer Planning, **Gas Contractors**

Administrative Revisions

Rev 4a (4/14/23)

Added **Gas Contractors** to the REQUIRED TRAINING GROUPS

★ Each group listed is responsible for its own training which may be specific to a title/individual and not to the group in its entirety. Please check with your local training coordinator/department.

SUBSTANTIVE REVISIONS: (See ★)

- 1) Cover Page - Updated cover page to the new format. Replaced “Core Group” and “Target Audience” with “Required Training Group”. Added responsibility requirements for training group(s).
- 2) Table of Contents - Added new section: Climate & Environmental Considerations.
- 3) Section 1.0 - Deleted second paragraph.

REVISIONS: (Continued)

- 4) Section 3.0 - Added introductory statement on resources for identifying flood prone areas. Added note to provide guidance of the use of M&S plates. Added “of these” to the last paragraph and placed it in ‘bold’ font.
- 5) Sections 3.0, 4.2(A) & (D) - Updated references in applicable sections from Section 6.0 to Section 7.0.
- 6) Section 4.0 - Revised section heading to include “Replacement”.
- 7) Section 4.1 - Added “...and the resources referenced in Section 7.0” to the end of sentence. Changed “New Business” and “Oil-to-Gas” to “Customer Connections”. Also, added “replacement” to statement.
- 8) Section 4.1(A) - Revised to align with G-699, Section 3.2.
- 9) Section 4.2 - Added the word “replacement” to the statement.
- 10) Section 4.3 - Added the word “replacement” to the statement.
- 11) Section 4.3(A) - Revised sub-section for clarity.
- 12) Section 5.0 - Added new section “Climate and Environmental Considerations”. Renumbered subsequent sections.
- 13) Section 7.0 - Updated “SLOSH App” hyperlink to connect to recreated site; and provided additional links to the FEMA site in the References Section.
- 14) Entire Document - Replaced “GIS” with “Gas Central” throughout the entire document.
- 15) Attachment: Tables 1 through 4 - Revised footnote in its entirety for all attached Tables.



Gas Operations Standards

**TITLE: FLOOD-PRONE AREAS FOR THE INSTALLATION OF
GAS SERVICE REGULATOR VENT LINE PROTECTORS
(VLPs)**

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| | EH&S REVIEW BY: Craig Little | | | OPERATIONS REVIEW BY: R. McGrath/F. Stauss | |
| | AUTHOR: | APPROVED BY: | DATE APPROVED: | VOLUME: 2 (Section 14.0), 4, & Yellow Book | PAGE 1 OF |
| | G. Fairweather | Nickolas Hellen Chief Engineer Gas Distribution Engineering | 3/22/2023 | Construction Standards, Application & Design, and Yellow Book | 8 PAGES |
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**FLOOD-PRONE AREAS FOR THE INSTALLATION OF
TITLE: GAS SERVICE REGULATOR VENT LINE PROTECTORS
(VLPs)**

★ 1.0 **SCOPE**

This specification describes the methodologies to determine when an elevated pressure gas service with an indoor or outdoor service regulator is required to have the vent line terminus elevated to prevent water intrusion or have a water intrusion protection device, vent line protector (VLP) installed. VLPs shall be installed as per Gas Specification [G-699 “Installation of Gas Service Regulator Vent Line Protectors \(VLPs\)”](#).

2.0 **DEFINITIONS**

2.1 Vent Line Protector (VLP) - A device for preventing the flow of water into a gas service regulator vent.

2.2 Federal Emergency Management Association (FEMA) Base Flood Elevation (BFE)

The computed elevation to which floodwater is anticipated to rise during a 1% annual chance flood. Base Flood Elevations (BFEs) are shown on Flood Insurance Rate Maps (FIRMs) and on the flood profiles. (Refer to Climate Change Planning and Design Guideline Document in [CI-610-4](#): CI Climate Change Adaptation and Resiliency Plan)

The BFE is the regulatory requirement for the elevation or flood proofing of structures. The relationship between the BFE and a structure’s elevation determines if a VLP or some other fortification of vent line is required. Fortification of vent line normally includes raising the vent line.

2.3 BFE + 3’ Height

This is the Federal Emergency Management Association (FEMA) base flood elevation (BFE) height plus 3 feet. The +3’ in FEMA+3’ takes into consideration one foot of sea level rise and two feet of freeboard.

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2.0 **DEFINITIONS** (Continued)

2.4 Sea, Lake, and Overland Surges from Hurricanes (SLOSH)

The **S**ea, **L**ake and **O**verland **S**urges from **H**urricanes (SLOSH) model is a computerized numerical model developed by the National Weather Service (NWS) to estimate storm surge heights resulting from historical, hypothetical, or predicted hurricanes by taking into account the atmospheric pressure, size, forward speed, and track data. These parameters are used to create a model of the wind field which drives the storm surge.

The SLOSH model consists of a set of physics equations which are applied to a specific locale's shoreline, incorporating the unique bay and river configurations, water depths, bridges, roads, levees, and other physical features. Con Edison models based on a Category 3 hurricane.

★ 3.0 **FLOOD PRONE AREAS**

- ★ Flood prone areas can be determined using the FEMA, SLOSH, and Elevation by Address websites (Section 7.0), as well as through ProceMX and the attached tables referenced in Section 8.0.

The attached tables list designated flood-prone areas (by M&S Plate) based on analysis by Gas Distribution Engineering of historical storm flooding in the Bronx (See Table 1), Manhattan (see Table 2), Queens (see Table 3), and Westchester (see Table 4). Contact Gas Distribution Engineering for detailed maps.

- ★ **NOTE:** The M&S plates listed in these tables are associated with Byers which is available as read only historical data. Vision, the system that produced M&S plates displayed in Byers, was replaced by eGIS. The majority of the M&S plate numbers in Byers align with the eGIS plate numbers. Some information/data on the boundaries of these plate may carry over to adjacent plates. Please note that eGIS does not contain information on flood prone areas at this time.
- ★ ProceMX should also be used to identify (FEMA and FEMA +3) flood prone areas in the Bronx, Manhattan, and Queens. Other resources for flood prone areas within our service territory are listed in Section 7.0 of this specification.

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**FLOOD-PRONE AREAS FOR THE INSTALLATION OF
TITLE: GAS SERVICE REGULATOR VENT LINE PROTECTORS
(VLPs)**

★ 3.0 **FLOOD PRONE AREAS** (Continued)

- ★ Verify flood prone areas using all resources referenced herein, such as FEMA, Elevation by Address, ProceMX, the attached tables (by M&S plates), and SLOSH, where applicable. If flood prone areas are identified using one or all of these resources, it should be treated as flood prone area(s).

★ 4.0 **NEW/UPGRADED/REPLACEMENT SERVICES**

- ★ 4.1 When Gas Engineering (Customer Connections, Main Replacement Program) initiates a design for a new, upgraded, or replacement service, they shall check to see if the service is located on an M&S plate listed in Flood-Prone Area Tables 1, 2, 3, or 4 of this specification and the resources referenced in Section 7.0.

NOTE: Layouts prepared by the Field Engineering & System Reliability group for mains and associated services will reflect the BFE + 3 and will indicate if VLPs are required.

- ★ A) For buildings in the flood-prone areas, a VLP shall be installed on the vent line to prevent water intrusion. If this is not feasible, the vent lines should be elevated so the terminus (peck vent) is 3' above the BFE. (See Section 4.2 for Manhattan, Bronx, and Queens services and Section 4.3 for Westchester services.)
 - B) For buildings not located in a flood-prone M&S plate, neither the vent line terminus needs to be elevated or a VLP installed.
- ★ 4.2 For new/upgraded/replacement services located in **Manhattan, Bronx, or Queens**, use the following procedure to determine if an address is in a flood zone:
- A) Use one of the two FEMA websites listed in Section 7.0 and input the service address. Flood zones on FEMA maps are indicated in blue on the flood maps as zones beginning with the letters 'A' or 'V.' Both websites will indicate the FEMA BFE for the service address. Add 3 feet to this height. This is the FEMA + 3' height.

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★ 4.0 **NEW/UPGRADED/REPLACEMENT SERVICES** (Continued)

4.2 (Continued)

- B) If the service address or FEMA BFE is not found on the websites, note the FEMA BFE of the adjacent addresses. Add 3 feet to the higher BFE. This is the BFE + 3' height.
- C) If the FEMA + 3' height cannot be determined from the FEMA websites, contact Gas Measurement.

- ★ D) Use the Elevation-by-Address website (see Section 7.0 for website) and input the service address to determine the elevation. If this height is higher than the BFE + 3' height, a peck vent may be installed.

If this height is equal to or lower than the BFE + 3' height, the vent line terminus and peck vent should be elevated to the BFE +3' height or a VLP shall be installed in lieu of the peck vent.

- ★ 4.3 For new/upgraded/replacement services located in **Westchester**, use the following procedure to determine if the vent line terminus (peck vent) is to be elevated BFE + 3' or if a VLP is to be installed.

- ★ A) Go to the SLOSH website listed in Section 7.0 and input the service address.
- B) If the address is located in SLOSH Hurricane Category 1, 2, or 3 zone, the vent line terminus (peck vent) is to be elevated BFE + 3' or a VLP is required.

If the address is not located in SLOSH Hurricane Category 1, 2, or 3 zone, neither the vent line terminus (peck vent) needs to be elevated BFE + 3' or a VLP installed.

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★ 4.0 **NEW/UPGRADED/REPLACEMENT SERVICES** (Continued)

4.4 The requirement to elevate the vent line terminus (peck vent) BFE + 3' or install a VLP will be identified on the layout and forwarded by Gas Engineering to the Initiator (Energy Services Department (ESD) or Customer Programs of the new/upgraded service request. The Initiator will ensure that the requirement to elevate the vent line terminus (peck vent) BFE + 3' or install a VLP will be forwarded to the Customer for them to install. The VLP will be provided to the Customer by Con Edison Gas Measurement group. The VLP should be requested when submitting a request for a regulator from Gas Measurement.

★ 4.5 If the service is in the flood-prone area, the Initiator of the new/upgraded/replacement service request will ensure that the Customer Project Management System (CPMS) Work Request Summary indicates that the customer is required to elevate the vent line terminus (peck vent) BFE + 3' or install a VLP by checking the box "VLP Required."

4.6 When Work Management Support Operations receives the Work Authorization the service is in a flood-prone zone, they will ensure that the meter job documents in Gas Central indicate that the "Water Intrusion Device Required" box states "Yes".

4.7 When GDS inspects the vent line terminus during the initial gas turn-on, if "Water Intrusion Device Required" is checked with "Yes" in Gas Central, GDS shall inspect that the vent line terminus was properly elevated; a VLP has been properly installed per gas specifications [G-699](#) and [EO-17118](#); install a VLP in compliance with gas specifications [G-699](#) and [EO-17118](#). GDS shall then document the status of the VLP installation by selecting the appropriate field for "Water Intrusion Device".

★ 5.0 **CLIMATE & ENVIRONMENTAL CONSIDERATIONS**

Climate change may impact certain design criteria of the Gas system. For guidance on climate change impact considerations, please refer to the "Climate Change Adaptation and Resiliency" Corporate Instruction ([CI-610-4](#)).

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**FLOOD-PRONE AREAS FOR THE INSTALLATION OF
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6.0 RECORDS RETENTION

Any records generated in the course of performing work in accordance with this specification shall be maintained as required by Corporate Instruction [CI-870-1](#) "Records Management". Guidance on the retention of Company Gas Operations records can also be found on the [Records Management](#) intranet site.

7.0 REFERENCES

- [CI-870-1](#) Records Management
- [CI-610-4](#) Climate Change Adaptation and Resiliency
- [EO-17118](#) Regulator Vent Installation
- [G-699](#) Installation and Inspection of Gas Service Regulator Vent Line Protectors (VLPs)
- [G-8028](#) Requirements for Indicating the Location of the Curb Valve Box on a Gas Service with an Indoor Regulator
- [G-11838](#) Elevated Pressure Gas Service Inspection

★ FEMA Websites

- <https://msc.fema.gov/portal/search> or
- <http://www.region2coastal.com/view-flood-maps-data/what-is-my-bfe-address-lookup-tool/> or
- <https://msc.fema.gov/portal/home> or
- [View Preliminary Flood Maps & Data | FEMA Region II \(region2coastal.com\)](#)

★ SLOSH Website

- [NYS SLOSH \(conedison.net\)](#)

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**FLOOD-PRONE AREAS FOR THE INSTALLATION OF
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7.0 **REFERENCES** (Continuation)

Elevation-by-Address Website

- <https://apps.nationalmap.gov/viewer/>¹

8.0 **ATTACHMENTS**

- [Table 1](#) Bronx Flood-Prone Areas (by M&S Plate)
- [Table 2](#) Manhattan Flood-Prone Areas (by M&S Plate)
- [Table 3](#) Queens Flood-Prone Areas (by M&S Plate)
- [Table 4](#) Westchester Flood-Prone Areas (by M&S Plate)

¹ Follow these steps to obtain information from the USGS Website: (1) Click on map (2) Enter address in “Find address or place” (3) Zoom out slightly until map appears (4) Use Spot Elevation Button on location where elevation is needed.

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**★ TABLE 1:
Bronx Flood-Prone Areas (by M&S plate)**

| | | | | | | | | | City Island |
|------|------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| 1-E | 5-R | 7-X | 10-P | 13-O | 17-N | 23-Y | 29-Y | 36-H | |
| 1-F | 5-S | 7-Z | 10-Q | 13-P | 17-V | 24-AA | 29-Z | 36-I | 16-AK |
| 2-D | 5-T | 8-A | 10-R | 13-Q | 17-W | 24-AI | 30-AA | 37-AB | 16-AL |
| 2-E | 5-U | 8-AA | 10-S | 13-R | 17-X | 24-AJ | 30-AB | 37-AC | 17-AJ |
| 2-F | 5-Z | 8-AB | 10-T | 13-S | 18-A | 24-C | 30-AE | 37-AD | 17-AK |
| 2-G | 6-A | 8-AC | 10-V | 13-T | 18-AC | 24-D | 30-G | 37-G | 17-AL |
| 2-O | 6-AA | 8-AD | 10-W | 13-V | 18-AJ | 24-W | 30-Y | 37-H | 18-AJ |
| 3-C | 6-AB | 8-AE | 10-X | 13-W | 18-AK | 24-X | 30-Z | 37-I | 18-AK |
| 3-D | 6-AC | 8-B | 10-Z | 13-X | 18-M | 24-Y | 31-AA | 38-AA | 19-AJ |
| 3-E | 6-AD | 8-I | 11-A | 13-Y | 18-N | 24-Z | 31-AB | 38-AB | 19-AK |
| 3-F | 6-AE | 8-J | 11-AA | 14-A | 18-W | 25-AA | 31-AE | 38-AC | 20-AI |
| 3-G | 6-AF | 8-L | 11-AC | 14-AB | 18-X | 25-AB | 31-AF | 38-AD | 20-AJ |
| 3-L | 6-AG | 8-M | 11-AD | 14-AC | 19-A | 25-AC | 31-G | 38-D | 20-AK |
| 3-M | 6-B | 8-P | 11-AE | 14-L | 19-AC | 25-AG | 31-Y | 38-G | 21-AI |
| 3-N | 6-H | 8-Q | 11-L | 14-M | 19-AD | 25-AH | 31-Z | 38-H | 21-AJ |
| 3-O | 6-J | 8-R | 11-M | 14-O | 19-AJ | 25-AJ | 32-AA | 38-I | 21-AK |
| 3-S | 6-K | 8-S | 11-N | 14-P | 19-AK | 25-D | 32-AB | 38-J | 22-AJ |
| 3-T | 6-L | 8-T | 11-O | 14-Q | 19-N | 25-X | 32-AE | 39-AA | 22-AK |
| 3-U | 6-M | 8-V | 11-P | 14-V | 19-W | 25-Y | 32-AF | 39-AB | 23-AI |
| 4-AF | 6-O | 8-W | 11-Q | 14-W | 19-X | 25-Z | 32-G | 39-AC | 23-AJ |
| 4-B | 6-P | 8-X | 11-R | 14-X | 20-AC | 26-AA | 32-Z | 39-I | 24-AH |
| 4-C | 6-Q | 9-A | 11-S | 14-Y | 20-AD | 26-AB | 33-AA | 39-J | 24-AI |
| 4-D | 6-R | 9-AA | 11-T | 14-Z | 20-AJ | 26-AG | 33-AB | 40-I | 24-AJ |
| 4-F | 6-S | 9-AB | 11-V | 15-AA | 20-AK | 26-X | 33-AE | 41-E | 25-AJ |
| 4-G | 6-T | 9-AC | 11-W | 15-AB | 20-B | 26-Y | 33-G | 42-E | |
| 4-H | 6-U | 9-AD | 11-X | 15-AC | 20-N | 26-Z | 33-H | 46-F | |
| 4-K | 6-V | 9-AE | 12-A | 15-L | 20-V | 27-AA | 33-Z | 50-G | |
| 4-L | 6-Z | 9-B | 12-AB | 15-M | 20-W | 27-AB | 34-AA | | |
| 4-M | 7-A | 9-C | 12-AC | 15-O | 20-X | 27-AG | 34-AB | | |
| 4-N | 7-AA | 9-L | 12-AD | 15-P | 21-AC | 27-E | 34-AE | | |
| 4-O | 7-AB | 9-M | 12-L | 15-V | 21-AI | 27-X | 34-E | | |
| 4-S | 7-AC | 9-P | 12-M | 15-W | 21-AJ | 27-Y | 34-F | | |
| 4-T | 7-AD | 9-R | 12-N | 15-X | 21-AK | 27-Z | 34-G | | |
| 4-U | 7-AE | 9-S | 12-O | 16-AA | 21-B | 28-AA | 34-H | | |
| 5-A | 7-AF | 9-T | 12-P | 16-AK | 21-V | 28-AB | 34-Z | | |
| 5-AE | 7-AG | 9-V | 12-Q | 16-AL | 21-W | 28-AF | 35-AA | | |
| 5-AF | 7-B | 9-W | 12-R | 16-L | 21-X | 28-AG | 35-AB | | |
| 5-B | 7-I | 9-X | 12-S | 16-M | 21-Y | 28-AH | 35-AI | | |
| 5-C | 7-J | 9-Z | 12-T | 16-O | 22-AJ | 28-F | 35-E | | |
| 5-F | 7-L | 10-A | 12-V | 16-V | 22-AK | 28-Y | 35-F | | |
| 5-G | 7-M | 10-AA | 12-W | 16-W | 22-W | 28-Z | 35-G | | |
| 5-H | 7-P | 10-AC | 12-X | 16-X | 22-X | 29-AA | 35-H | | |
| 5-J | 7-Q | 10-AD | 13-A | 17-A | 22-Y | 29-AB | 36-AA | | |
| 5-K | 7-R | 10-AE | 13-AB | 17-AC | 23-AI | 29-AE | 36-AB | | |
| 5-L | 7-S | 10-L | 13-AC | 17-AJ | 23-AJ | 29-AF | 36-AD | | |
| 5-M | 7-T | 10-M | 13-AD | 17-AK | 23-C | 29-AG | 36-D | | |
| 5-N | 7-U | 10-N | 13-L | 17-AL | 23-W | 29-AH | 36-F | | |
| 5-O | 7-V | 10-O | 13-M | 17-M | 23-X | 29-F | 36-G | | |

★ **NOTE:** The M&S Plate numbers listed above are associated with Vision/Byers, which was replaced by eGIS. The majority of plate numbers align in both systems; however, users of this specification must check all resources herein, such as – the FEMA and Elevation by Address websites, SLOSH (where applicable), ProceMX, and the M&S plates to determine flood prone areas. If flood prone areas are identified using one or all of these resources, the area should be treated as flood prone.

**★ TABLE 2:
Manhattan Flood-Prone Areas (by M&S Plate)**

| | | | | | | |
|--------|--------|--------|------|------|------|-------------------------|
| 1-H | 12-F | 22-D | 37-M | 53-C | 75-E | Governors Island |
| 1-I | 12-G | 22-E | 38-M | 53-I | 76-D | 1-A |
| 1-J | 12-N | 22-K | 39-M | 53-J | 76-E | 1-B |
| 2-H | 12-O | 22-L | 40-C | 53-K | 77-A | 1-C |
| 2-I | 13-E | 23-C | 40-M | 54-C | 77-B | 1-D |
| 2-J | 13-F | 23-D | 41-C | 54-H | 77-C | 2-A |
| 3-G | 13-N | 23-E | 41-L | 54-I | 77-E | 2-B |
| 3-H | 13-O | 23-K | 41-M | 54-J | 78-B | 2-C |
| 3-I | 14-E | 23-L | 42-J | 55-C | 78-C | 2-D |
| 3-J | 14-F | 24-D | 42-K | 55-H | 78-E | 3-A |
| 4-G | 14-M | 24-C | 42-L | 55-I | 79-C | 3-B |
| 4-H | 14-N | 24-K | 43-C | 56-C | 79-D | 3-C |
| 4-J | 14-O | 24-K-4 | 43-J | 56-G | 80-C | 3-D |
| 4-K | 15-E | 24-L | 43-K | 56-H | 80-D | |
| 5-G | 15-M | 25-C | 43-L | 56-I | 80-E | Roosevelt Island |
| 5-H | 15-N | 25-K | 44-C | 57-C | 81-E | RI-2 |
| 5-K | 15-O | 25-K-4 | 44-J | 57-G | 82-E | RI-3 |
| 6-G | 16-D | 25-L | 44-K | 57-H | | RI-4 |
| 6-H | 16-E | 26-C | 44-L | 58-C | | RI-5 |
| 6-K | 16-L | 26-D | 45-I | 58-G | | RI-6 |
| 7-F | 16-M | 26-K | 45-J | 58-H | | RI-7 |
| 7-G | 16-N | 26-L | 45-K | 59-C | | RI-8 |
| 7-H | 17-D | 27-C | 45-L | 59-G | | RI-9 |
| 7-K | 17-E | 27-L | 46-H | 60-C | | RI-10 |
| 7-L | 17-L | 28-C | 46-I | 60-F | | RI-11 |
| 8-G | 17-M | 28-L | 46-J | 60-G | | |
| 8-H | 17-N | 29-C | 46-K | 61-C | | |
| 8-M | 18-D | 29-L | 46-L | 61-F | | |
| 9-G | 18-E | 30-C | 47-H | 61-G | | |
| 9-H | 18-L | 30-L | 47-I | 62-B | | |
| 9-I-1 | 18-M | 31-C | 47-J | 62-E | | |
| 9-I-2 | 18-N | 31-L | 47-K | 62-F | | |
| 9-I-4 | 19-D | 32-C | 47-L | 63-B | | |
| 9-N | 19-E | 32-L | 48-I | 63-E | | |
| 10-F | 19-K-4 | 33-C | 48-J | 63-F | | |
| 10-G | 19-L | 33-L | 48-K | 64-E | | |
| 10-H | 19-M | 34-C | 48-L | 65-B | | |
| 10-I-1 | 20-C | 34-L | 49-K | 65-E | | |
| 10-I-2 | 20-D | 34-M | 49-L | 66-E | | |
| 10-I-3 | 20-E | 35-C | 50-K | 69-A | | |
| 10-O | 20-K | 35-L | 50-L | 70-A | | |
| 11-F | 20-L | 35-M | 51-J | 70-E | | |
| 11-G | 20-M | 36-C | 51-K | 71-A | | |
| 11-H | 21-C | 36-L | 51-L | 71-E | | |
| 11-I-1 | 21-D | 36-M | 52-J | 73-D | | |
| 11-N | 21-L | 37-C | 52-K | 74-D | | |
| 11-O | 22-C | 37-L | 52-L | 75-D | | |

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★ Table 3:
Queens Flood-Prone Areas (by M&S Plate)

| 1st Ward | | 3rd Ward | | |
|----------|-------|----------|-------|-------|
| 55-Z | 70-AJ | 48-AT | 64-AU | 70-AU |
| 56-Y | 71-AA | 48-AU | 64-BI | 70-AW |
| 56-Z | 72-AA | 49-AT | 64-BJ | 70-AX |
| 57-Y | 72-AB | 49-AU | 64-BK | 70-BH |
| 58-X | 72-AH | 50-AS | 64-BL | 71-AS |
| 58-Y | 72-AI | 50-AU | 64-BM | 71-AU |
| 59-W | 73-AA | 51-AS | 64-BN | 71-AV |
| 59-X | 73-AD | 51-AT | 65-AP | 71-AW |
| 59-Y | 73-AH | 51-AU | 65-AS | 71-AX |
| 60-U | 73-AI | 52-AS | 65-AT | 71-BD |
| 60-V | 74-AD | 52-AT | 65-AU | 71-BE |
| 60-W | 74-AH | 53-AT | 65-BI | 71-BG |
| 60-X | 74-AI | 57-AR | 65-BL | 71-BH |
| 60-Y | 75-AE | 57-AS | 65-BM | 72-AQ |
| 61-U | 75-AF | 57-AT | 65-BN | 72-AR |
| 61-V | 75-AH | 58-AT | 66-AO | 72-AS |
| 61-W | 75-AI | 59-AT | 66-AR | 72-AV |
| 61-X | 76-AF | 59-AU | 66-AS | 72-AW |
| 61-Y | 76-AG | 59-BL | 66-AT | 72-BD |
| 62-U | 76-AH | 59-BM | 66-AU | 72-BE |
| 62-V | 77-AG | 60-AT | 66-AV | 72-BF |
| 62-W | | 60-BL | 66-BI | 72-BG |
| 62-X | | 60-BM | 66-BL | 73-AQ |
| 62-Y | | 61-AS | 66-BM | 73-AU |
| 62-Z | | 61-AT | 66-BN | 73-AV |
| 63-V | | 61-BJ | 67-AO | 73-AW |
| 63-W | | 61-BK | 67-AS | 73-AX |
| 63-Y | | 61-BL | 67-AT | 73-BC |
| 64-V | | 62-AQ | 67-AU | 73-BD |
| 64-W | | 62-AR | 67-AV | 74-AU |
| 65-W | | 62-AS | 67-BI | 74-AW |
| 65-Y | | 62-AT | 67-BL | 74-AX |
| 66-X | | 62-AU | 67-BM | 74-BD |
| 66-Y | | 62-BJ | 68-AN | 75-AT |
| 67-X | | 62-BL | 68-AT | 75-AU |
| 67-Y | | 62-BM | 68-AU | 75-AW |
| 68-Y | | 63-AQ | 68-AV | 75-BA |
| 68-AA | | 63-AS | 68-BH | 76-AT |
| 68-AB | | 63-AT | 68-BI | |
| 69-Z | | 63-BJ | 68-BL | |
| 69-AA | | 63-BL | 68-BM | |
| 69-AB | | 63-BM | 69-AU | |
| 69-AJ | | 64-AP | 69-AV | |
| 70-Z | | 64-AR | 69-AW | |
| 70-AA | | 64-AS | 69-BH | |
| 70-AB | | 64-AT | 70-AS | |

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★ **Table 4:**
Westchester Flood-Prone Areas (by M&S Plate)

| Long Island Sound Coast | | | | | Hudson River Coast | | | | | |
|-------------------------|-------|-------|-------|-------|--------------------|-------|--------|-------|-------|-------|
| 2-BK | 10-BV | 17-CD | 22-CL | 30-CR | 11-Z | 50-AK | 90-AD | 105-U | 117-Q | 129-M |
| 2-BL | 11-BQ | 17-CE | 22-CM | 30-CV | 12-Z | 50-AL | 90-AJ | 105-V | 118-J | 129-Q |
| 3-BL | 11-BR | 17-CF | 22-CQ | 30-CW | 13-Z | 51-AL | 91-AC | 106-R | 118-M | 129-R |
| 4-AZ | 11-BS | 18-BY | 22-CR | 30-CX | 13-AA | 56-AL | 91-AD | 107-Q | 118-N | 129-S |
| 4-BA | 11-BT | 18-BZ | 22-CS | 30-CY | 14-AA | 57-AM | 91-AJ | 107-R | 118-P | 129-T |
| 4-BB | 11-BU | 18-CA | 23-CC | 30-CZ | 15-AA | 58-AM | 92-AC | 107-S | 119-J | 130-Q |
| 4-BL | 11-BV | 18-CB | 23-CF | 30-DA | 16-AA | 59-AM | 92-AJ | 107-T | 119-K | 130-R |
| 4-BM | 11-BW | 18-CC | 23-CG | 31-CR | 17-AA | 59-AN | 93-AC | 107-U | 119-M | 130-S |
| 4-BN | 11-BX | 18-CD | 23-CH | 31-CS | 17-AB | 60-AL | 93-AD | 108-L | 119-N | 130-T |
| 4-BP | 12-BR | 18-CE | 23-CJ | 31-CW | 17-AC | 60-AM | 93-AJ | 108-M | 119-P | 130-U |
| 5-BA | 12-BS | 18-CF | 23-CM | 31-CX | 18-AB | 60-AN | 94-AC | 108-N | 120-M | 130-V |
| 5-BB | 12-BT | 19-BZ | 23-CN | 31-CY | 19-AB | 61-AL | 94-AD | 108-P | 120-N | 131-R |
| 5-BL | 12-BU | 19-CA | 23-CQ | 31-CZ | 19-AC | 61-AM | 94-AE | 108-Q | 121-M | 131-S |
| 5-BM | 12-BV | 19-CB | 23-CR | 31-DA | 20-AC | 61-AN | 94-AG | 108-R | 121-N | 131-U |
| 5-BN | 12-BW | 19-CC | 23-CS | 31-DB | 21-AC | 62-AL | 94-AJ | 108-S | 121-P | 131-V |
| 5-BP | 12-BX | 19-CD | 23-CT | 32-CX | 22-AC | 62-AM | 95-AD | 109-L | 122-N | 131-W |
| 5-BQ | 12-BY | 19-CE | 24-CA | 32-CZ | 23-AC | 63-AM | 95-AE | 109-M | 122-P | 132-S |
| 5-BR | 12-BZ | 19-CF | 24-CG | 32-DA | 24-AD | 64-AM | 95-AF | 109-N | 123-N | 132-T |
| 6-BB | 13-BU | 20-CB | 24-CN | 33-CX | 25-AD | 64-AN | 95-AG | 110-J | 123-P | 132-W |
| 6-BC | 13-BV | 20-CC | 24-CQ | 34-CY | 25-AE | 65-AL | 95-AH | 110-K | 123-Q | 132-X |
| 6-BP | 13-BW | 20-CD | 24-CR | 35-CZ | 26-AE | 66-AL | 95-AJ | 110-L | 123-R | |
| 6-BQ | 13-BZ | 20-CE | 24-CS | 35-DA | 27-AE | 67-AL | 95-AK | 110-M | 124-Q | |
| 6-BR | 14-BU | 20-CF | 25-CP | 36-CZ | 28-AE | 68-AL | 96-AD | 110-N | 124-R | |
| 6-BS | 14-BV | 20-CP | 25-CQ | 37-CX | 28-AF | 68-AM | 96-AJ | 111-J | 125-Q | |
| 7-BC | 14-BW | 21-CB | 25-CR | 37-CY | 29-AF | 69-AL | 97-AD | 111-K | 125-R | |
| 7-BD | 14-BY | 21-CC | 25-CS | 37-CZ | 30-AF | 75-AL | 97-AE | 112-F | 126-K | |
| 7-BP | 14-BZ | 21-CD | 25-CT | 38-CY | 31-AF | 76-AL | 97-AF | 112-G | 126-L | |
| 7-BQ | 14-CC | 21-CE | 26-CQ | 38-CZ | 32-AG | 77-AL | 97-AJ | 112-H | 126-M | |
| 7-BR | 15-BU | 21-CF | 26-CR | 39-CZ | 33-AG | 78-AL | 97-AK | 112-J | 126-N | |
| 7-BS | 15-BV | 21-CG | 26-CT | 40-DA | 34-AG | 78-AM | 98-AD | 112-K | 126-P | |
| 7-BT | 15-BW | 21-CH | 26-CU | 41-DA | 35-AG | 79-AM | 98-AE | 113-E | 126-Q | |
| 8-BC | 15-BY | 21-CJ | 27-CQ | 42-DA | 36-AG | 80-AL | 98-AF | 113-F | 127-J | |
| 8-BD | 15-BZ | 21-CK | 27-CR | | 37-AG | 80-AM | 98-AJ | 113-H | 127-K | |
| 8-BQ | 15-CC | 21-CL | 27-CS | | 38-AG | 81-AL | 98-AK | 113-J | 127-L | |
| 8-BR | 16-BY | 21-CP | 27-CU | | 39-AH | 82-AL | 99-AC | 113-K | 127-M | |
| 8-BS | 16-BZ | 21-CQ | 28-CQ | | 40-AH | 83-AL | 99-AD | 114-E | 127-N | |
| 8-BT | 16-CA | 21-CR | 28-CR | | 41-AH | 84-AK | 99-AJ | 114-F | 127-P | |
| 9-BD | 16-CB | 21-CS | 28-CS | | 41-AJ | 84-AL | 100-AB | 114-J | 127-Q | |
| 9-BR | 16-CC | 22-CC | 28-CU | | 42-AJ | 85-AK | 100-AC | 114-K | 127-R | |
| 9-BS | 16-CD | 22-CD | 28-CV | | 43-AJ | 85-AL | 100-AD | 114-L | 128-J | |
| 9-BU | 16-CE | 22-CE | 29-CQ | | 44-AJ | 86-AK | 101-AA | 115-F | 128-L | |
| 10-BQ | 17-BY | 22-CF | 29-CR | | 45-AJ | 86-AL | 102-Y | 115-G | 128-M | |
| 10-BR | 17-BZ | 22-CG | 29-CV | | 46-AJ | 87-AK | 103-X | 115-K | 128-P | |
| 10-BS | 17-CA | 22-CH | 29-CY | | 47-AK | 88-AK | 104-U | 115-L | 128Q | |
| 10-BT | 17-CB | 22-CJ | 29-CZ | | 48-AK | 89-AK | 104-V | 115-M | 128-R | |
| 10-BU | 17-CC | 22-CK | 30-CQ | | 49-AK | 90-AC | 104-W | 117-P | 129-L | |

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