

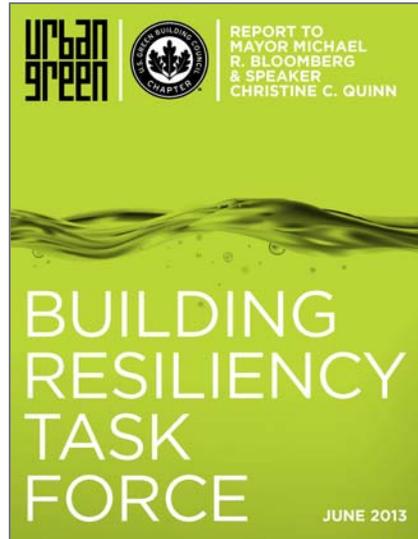
# RECENT LOCAL LAWS: POST HURRICANE SANDY LEGISLATION

Joseph Ackroyd, PE

Dan Eschenasy, PE

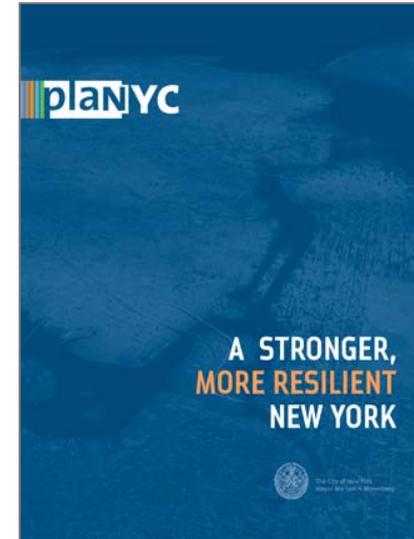
Gus Sirakis, PE

NYC DOB Technical Affairs Division



**BRTF**

(Building Resiliency  
Task Force)



**SIRR**

(Special Initiative for  
Rebuilding and Resiliency)

**27** Total resiliency-related City Council bills

**17** Local Laws have passed

**Task Force Contributors** Mathther Abbassi/Joseph Ackroyd/Scott Amrhein/  
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Jack Bailey/Jeffrey Baker/E. Bruce Barrett/Steven Baumgartner/Greg Bauso/  
Hilary Beber/Denis Belic/Raymond Benemerito/Blake Berg/Robert Berninger/  
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Kirk/Jamie Kleinberg/Arthur Klock/Sibbie Kurian Roman Kuzmicki/Maurice E. LaBonne/Nicholas Lanzillotto/John Lee/Stacy Lee/Susan Leeds/Richard A. Leentjes/Richard Leigh/Jill Lerner/David Lewis/Robert LiMandri/Paimaan Lodhi/Frank J. Lorenz/James Luke/Yevgeniy Lvovskiy/Mark M. MacCracken/Ken Mahadeo/Sergej Mahnovski/Anthony E. Mann/Charlotte Matthews/Michael Mayfield/Maureen McGeary Mahle/Christopher O. McHugh/Walter J. Mehl, Jr./Thomas P. Mimmagh/Jerome L. Montrone/Kevin Morin/Alex Mulerman/Dan Mulligan/Brian Mullins/Daniel H. Nall/Gita Nandan/Bruce Nichol/Daniel E. Nichols/Signe Nielsen/Meena Nijhawan/Paul O'Connor/Brian E. O'Sullivan/Sukanya Paciorek/Mike Panfil/Phillip F. Parisi, Jr./Thaddeus Pawlowski/Steven Pekofsky/Jake Pettinato/James Pfeiffer/Edward Pincar/Laura Popa/Simon Ressler/Robert A. Ricco/Elizabeth Ripotola/Stephen Rizzo/Lindsay Robbins/Laura Rogers/Heather Roiter Damiano/Ophelia Roman/Gerard Romski/Lawrence Rosano, Jr./George C. Ross/Eric Rudin/Grant Salmon/Tom Scarola/Harris Schaer/Cecil Scheib/John Schott/Michael Schrieber/Justine Shapiro-Kline/Patrick Siconolfi/Tannaz Simyar/Constadino (Gus) Sirakis/Howard Slatkin/Arden Sokolow/Victoria Sorvillo Weidemann/James Stawniczy/William Stein/Howard Styles/Lee Sullivan/Angela Sung Pinsky/Alexander Tanenbaum/Joel Towers/Nicholas J. Turkovic/Russell Unger/Thomas G. Unsinn/Sean Wallace/Jeremy Walsh/Jon Weiskopf/Marc Weissbach/Keith Wen/David White/Phillip White/Charlie Whitney/Morris Wiesenberg/Alex Wilson/Donald J. Winston/Alexander Wolk/Mark Wyman/Martha Xuereb/Marc Zuluaga/

## **RECENT LOCAL LAWS AMENDING THE 2008 CODES:**

Local Law 29/13 – Raising and Moving of Buildings

Local Law 51/13 – Permit Fee Waivers

Local Law 82/13 – Flood Manual

Local Law 83/13 – Backflow Prevention

Local Law 95/13 – Healthcare Facilities

Local Law 96/13 – Flood Maps

Local Law 99/13 – Raising Building Systems

Local Law 109/13 – Flood Barriers

Local Law 111/13 – Emergency & Standby Power Systems

# LOCAL LAW 29/13 – RAISING AND MOVING OF BUILDINGS



**RAISING/MOVING OPERATIONS  
SPECIAL INSPECTIONS BC 1704.27**

# BUILDINGS BULLETIN 2013-013

## Explaining Local Law 29-2013

[http://www.nyc.gov/html/dob/downloads/bldgs\\_bulletins/bb\\_2013-013.pdf](http://www.nyc.gov/html/dob/downloads/bldgs_bulletins/bb_2013-013.pdf)



NYC Buildings Department  
200 Broadway, New York, NY 10007  
Robert E. Livancich, Commissioner

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**BUILDINGS BULLETIN 2013-013**  
Operational

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**Supersedes:** None  
**Issuer:** Thomas Fariello, RA  
First Deputy Commissioner   
**Issuance Date:** October 4, 2013  
**Purpose:** To clarify special inspection requirements related to raising, lifting, elevating or moving buildings  
**Related Code Sections:**  
AC 28-116.2.3.2 BC 1704.19 BC 3305.6  
AC 28-104.7.13 BC 1704.27 LL 29/2013  
**Subject(s):** Building, raising; Building, moving; Building, lifting; Building, elevating; Local Law 29 of 2013; Special inspections, raising or moving of a building; Special inspectors, raising or moving of a building

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**I. BACKGROUND**  
The purpose of this bulletin is to clarify Local Law 29 of 2013 that amended and added sections of the New York City Construction Codes for "raising or moving of a building." This bulletin describes the specific requirements for the special inspections of such work and for the construction documents needed for these special inspections.

Local Law 29 of 2013 amended and added sections to the NYC Construction Codes governing the raising, lifting, elevating or moving the lowest above-grade floor or the lowest subgrade floor of a building. The "work involving raising or moving a building" as stipulated in Local Law 29 of 2013, shall refer only to the on-site operations involved to raise, lift, elevate, lower or otherwise move an existing building or a substantial portion of an existing building. The "raising or moving" of a building may be necessary in order to comply with the Flood-Resistant Construction requirements of NYC Construction Codes, Appendix G.

The "work involving raising or moving a building" commences at the pre-construction inspection and preparation of the building and site, and ends when the building is in its new design elevation and/or location and is permanently secured to permanent construction. Raising, lifting, elevating or moving operations are subject to the requirements listed in Building Code (BC) Chapter 33 (Safeguards during Construction or Demolition) and BC Chapter 17 (Structural Tests and Special Inspections) and may include but are not limited to the following:

Buildings Bulletin 2013-013 Page 1 of 5

build safe | live safe

# SPECIAL INSPECTION - BC 1704.27

- I. DEFINITION OF THE OPERATION
- II. INSPECTOR QUALIFICATIONS
- III. START AND END OF OPERATION
- IV. ITEMS & WORK SUBJECT TO INSPECTION
- V. BASIS OF INSPECTION (SUBMITTAL DOCUMENTS & PROCESS)
- VI. PERIODICITY of INSPECTIONS
- VII. REPORTING/SIGN-OFF

# I. DEFINITION

## THE WORK OF RAISING/LIFTING/ELEVATING/MOVING

- The on-site operations involved to raise, lift, elevate, lower or otherwise move an existing building or a substantial portion of an existing building



## II. SPECIAL INSPECTOR QUALIFICATIONS

Same as Structural Safety during Construction Operations BC 1704.19 ( that also includes alterations, excavation, underpinning and demolitions).

- Primary Inspector or Inspection Supervisor  
PE - Civil/Structural and 1 year relevant experience
- Supplemental Inspector — under direct supervision of Inspection Supervisor
  - Bachelor's Degree in Civil or Structural Engineering and 3 years relevant experience
- Special Inspection Agency Class 3 – for 1 or 2 family houses.

# III. WORK INVOLVING RAISING ....

## STARTS

- At pre-construction inspection and preparation of the building and site

## ENDS

- Building is in its new design elevation and/or location and is permanently secured to permanent construction

### III. NOTIFICATION TO THE DEPARTMENT

- At least forty-eight (48) hours prior to the commencement of such work
- The notification shall state the date when actual lifting operations will commence

## IV. ACTIVITIES UNDER BC 1704.27

- The installation of temporary supports, shores, and braces to support the structure during the stages of work;
- The temporary modification of the building to allow the safe transfer of loads to temporary supports;
- The separating or removal of the building from the structural elements not intended to be raised;
- The actual lifting/moving of the building, including all stages;
- Installations and measures needed to maintain site safety during the work ( including utilities disconnect);
- The transfer of loads to permanent construction and the attachment of structural members;

## IV. ACTIVITIES UNDER BC 1704.27

*Installation of temporary supports in stages*



*Separation from existing foundation*



## IV. ACTIVITIES UNDER BC 1704.27

### *Protection Measures*



### *Site Preparation*



## IV. ACTIVITIES UNDER BC 1704.27

*Attachment to permanent structure*



*Transfer of loads to permanent structure*



## IV. SPECIAL INSPECTIONS NOT UNDER BC 1704.27

- Operations under BC 3316 Hoisting Equipment, BC 3317 Material Hoists and Bucket Hoists, BC 3320 Material Handling Equipment
- Work necessary for the construction or installation of new and permanent structural, architectural or mechanical elements

*Examples include installations of:*

- new and permanent foundations
- pile systems
- the repair of existing construction
- masonry walls

# APPLICATION FOR ALTERATION INVOLVING RAISING AN EXISTING HOUSE

## CONSTRUCTION DOCUMENTS

Plans and specifications  
necessary  
for obtaining a building permit

## COMPLETED FORMS

- PW 1
- DS 1
- TR 1

## SUBMITTAL DOCUMENTS FOR RAISING OPERATIONS

**OPTION 1** – SUBMITTAL DOCUMENTS FOR RAISING OPERATIONS  
INCORPORATED IN ALTERATION SUBMITTAL (including DS1)

**OPTION 2** – SEPARATE SUBMITTAL FOR RAISING OPERATIONS  
WITH COMPLETED DS1

# V. APPLICATION PROCEDURE - PW 1

## PW FORM 1 (PAGE 2)

- Depending of option selected DM drawings might need to be included

9B Note "RMB" in the "Other, specify" text box

9E WORK INCLUDES PARTIAL DEMOLITION

7. DM  
DRWGS

PW1 PAGE 2

**7 Plans/Construction Documents Submitted** *Plans are required for most applications.*

AR - Architectural  
  BP - BPP Checklist  
  DM - Demolition (Full/Partial)  
  EN - Energy Analysis  
  FO - Foundation or  
  NP - No Plans  
 ME - Mechanical  
  OT - Other  
  PL - Plumbing  
  ST - Structural  
  ZO - Zoning

**8 Additional Information**

8A WT Cost   WT Cost   WT Cost   8B Is a building enlargement proposed?

No enlargement is proposed  
 Yes 12, PD1  
 Horizontal  
  Vertical  
 Additional Construction Floor Area:   sq. ft.

8C Estimated Job Cost \$  
 8D Street Frontage:   linear ft.  
 8E Height:   ft. Width:   ft.  
 8F Name of cluster or development below:  
 Project lead job no.

**9 Additional Considerations, Limitations or Restrictions**

Yes No   Yes No

9A  Structural peer review required per BC §1627 *If yes, 9F*

Filed to Comply with Local Law *If yes, 9C*  
 Other, specify: **RMB**  
 Restrictive Declaration / Easement *If yes, 9M*  
 Zoning Exhibit (I, II, III, etc.)  
 Requesting legalization of work where no work w/o a permit violations have been issued

Landmark  
 "Little E" Hazmat Site  
 Unmapped Street  
 Filing to Address Violation(s) *If yes, 9H*

9G Structural Peer Reviewer License No. P.E.  
 9G Local Law No(s) Year  
 9H Violation No(s)  
 9I BSA Calendar No(s)  
 9J CPC Calendar No(s)  
 9K High-Rise Team Tracking Number:

9C  Adult Establishment *If yes, plot diagram (except DM)*  
 Compensated Development (Inclusionary Housing)  
 Low Income Housing (Inclusionary Housing)  
 Single Room Occupancy (SRO) Multiple Dwelling  
 Filing includes Lot Merger / Reapportionment *If yes, 17*

Included in LMCCC  
 Infill Zoning  
 Loft Board  
 Quality Housing  
 Site Safety Job/Project

9D  Work includes removal of structural, fire, or fire suppression related systems  
 9E  Work includes partial demolition as defined in AC §28-101.5 *If yes, 21B*  
 Structural Stability affected by proposed work  
 9L  Work includes lighting fixture and/or controls, installation or replacement [SECC 404 and 505]

9M CRFN(s) Restrictive Declaration / Easement (max. 4):  
 9N CRFN(s) Zoning Exhibit (I, II, III, etc. - max. 4):

**10 NYCECC Compliance** *New York City Energy Conservation Code*

To the best of my knowledge, belief and professional judgment, all work under this application is in compliance with the NYCECC\*  
 Energy analysis is on another job number: \_\_\_\_\_  
 Yes No  
 This application is, or is part of, a project that utilizes trade-offs among different major systems  
 This application utilizes trade-offs within a single major system  
 To the best of my knowledge, belief and professional judgment, all work under this application is exempt from the NYCECC\* in accordance with one of the following: *Choose one*

# V. APPLICATION PROCEDURE - PW 1

## PW FORM 1 (PAGE 4)

21B. DEMO AFFECTS  
ENVELOPE

PW1 PAGE 4

**21 Demolition Details** \*Mechanical equipment other than handheld devices to be used for demolition or removal of debris (BIC §3306.4).

Yes No

21A  Demo. filing is for a secondary structure? If yes, specify structure being demolished:  
 Mechanical means\* from out of building? If yes, mechanical means will demolish:  entire structure or  part of structure  
 Mechanical means\* from within building? If yes, describe equipment proposed.

21B  Demolition work affects the exterior building envelope

**22 Asbestos Abatement Compliance** Choose one.

The scope of work requires related asbestos abatement as defined in the regulations of the NYC Department of Environmental Protection (DEP).  
 The scope of work does not require related asbestos abatement as defined in the regulations of the NYC DEP.  
 The scope of work is exempt from the asbestos requirement as defined in the regulations promulgated by the NYC DEP (15 RCNY 1-23(b)).

**23 Sign**

Purpose:  Advertising  Non-Advertising Type:  Illuminated 23A  Non-Illuminated Estimated Cost: \$ \_\_\_\_\_ Total Square Foot: \_\_\_\_\_ 23A Illuminated type:  Direct  Flashing  Indirect Yes No

Location:  Ground  Roof 23B  Wall Height above Curb: ft. in. Height above Roof: ft. in.  If sign projects beyond building line, is owner billed for annual permit? If no, specify in 26B

23B  Is roof sign tight, closed or solid?  
23C Sign wording. If extensive, provide only key wording.

Yes No  
 Is sign inside building line? If no, sign projects by: ft. in.  
 Designed for changeable copy? If no, 23C  
 Does an OAC have an interest in this sign or location? If yes, 23G  
 Within 90' and within view of an arterial highway? If yes, 23D  
 Within 200' and within view of a park 1/2 acre or more? If yes, 23E

23D Distance from Arterial Highway: ft.  
23E Distance from Park 1/2 acre or more: ft.  
23F OAC Sign Number:  
23G OAC Registration Number:

→ If answer is "yes" to either of the above two questions and this is an advertising sign, OAC sign number is required in section 23F

**24 Comments** Place additional comments on an AF-1 form. See Guide for proper incorporation of professional certification statements.

**25 Applicant's Statements and Signatures** Required for all applications.

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both. It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both. I understand that if I am found after hearing to have knowingly or negligently made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the completion of a violation required under the provisions of this code or of a rule of any agency, I may be barred from filing further applications or documents with the Department. I prepared or supervised the preparation of the construction documents and specifications herewith submitted and to the best of my knowledge and belief, the construction documents and work shall thereon comply with the provisions of the NYC Administrative Code and other applicable laws and rules.  (-check here if) except as set forth in the accompanying documents. I acknowledge that I have read and complied with all instructions pertaining to this application and supplementary schedules submitted.

Cluster Development Statement (if applicable): I hereby state that all specifications relating to this job are identical to those previously filed under the group lead job number, except as specified herein.

Yes No  
 For Initial New Building and Alteration 1 applications filed under the 2008 NYC Building Code only: does this building qualify for high-rise designation?  
 Directive 14 Initial applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exit, or occupancy.

Name (please print) \_\_\_\_\_  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
P.E. / R.A. Seal (apply final then sign and date over seal)

01/11

# V. APPLICATION PROCEDURE - TR-1 FORM

**NYC Buildings**

**TR1: Technical Report Statement of Responsibility**  
This form must be typewritten

Orant and affix BS job number label here

**1 Location Information** Required for all applications.

House No(s) Street Name  
Work on Floor(s)

**2 Applicant Information** Required for all applications.  
Choose all that apply:  Design Applicant 3A, 4A, 5  Special Inspector

Last Name First Name  
Business Name  
Business Address  
City State Zip  
License Type choose one:  P.E.  R.A.  Other: License Number  
Special Inspection Agency Number

**3 Special Inspection Items** Required for all applications, continued on page 2.  indicates report required.

| 3A -- Identification of Requirement   | 3B Identification of Responsibilities | 3C Certificate of Complete Inspections / Tests | 3D Withdraw Responsibilities |
|---|---------------------------------------|--|------------------------------|
| Y N Special Inspections Code/Section  | Initial & Date                        | Initial & Date                                 | Initial & Date               |
| <input type="checkbox"/> Flood Zone Compliance BC G105  |                                       |  |                              |
| <input type="checkbox"/> Fire Alarm Test BC 907, BC 1704.13   |                                       |  |                              |
| <input type="checkbox"/> Photoluminescent Exit Path Markings <input checked="" type="checkbox"/> TR7 BC 1026.11         |                                       |  |                              |
| <input type="checkbox"/> Emergency Power Systems (Generators) BC 1704.13, BC 2702                                       |                                       |  |                              |
| <input type="checkbox"/> Structural Steel - Welding BC 1704.3.1   |                                       |  |                              |
| <input type="checkbox"/> Structural Steel - Erection & Bolting BC 1704.3.2, BC 1704.3.3                                 |                                       |  |                              |
| <input type="checkbox"/> Structural Cold-Formed Steel BC 1704.3.4   |                                       |  |                              |
| <input type="checkbox"/> Concrete - Cast-In-Place BC 1704.4   |                                       |  |                              |
| <input type="checkbox"/> Concrete - Precast BC 1704.4   |                                       |  |                              |
| <input type="checkbox"/> Concrete - Prestressed BC 1704.4   |                                       |  |                              |
| <input type="checkbox"/> Masonry BC 1704.5  |                                       |  |                              |
| <input type="checkbox"/> Wood - Off-Site fabrication of Structural Elements BC 1704.6                                   |                                       |  |                              |
| <input type="checkbox"/> Wood - Installation of High-Load Diaphragms BC 1704.6.1  |                                       |  |                              |
| <input type="checkbox"/> Wood - Installation of Metal-Plate-Connected Trusses BC 1704.6.3                               |                                       |  |                              |
| <input type="checkbox"/> Wood - Installation of Prefabricated Joists BC 1704.6.4  |                                       |  |                              |
| <input type="checkbox"/> Soils - Site Preparation BC 1704.7.1   |                                       |  |                              |
| <input type="checkbox"/> Soils - Fill placement & In-Place Density BC 1704.7.2, BC 1704.7.3                             |                                       |  |                              |
| <input type="checkbox"/> Soils - Investigations (Boring/Trail Pits) <input checked="" type="checkbox"/> TR4 BC 1704.7.4 |                                       |  |                              |
| <input type="checkbox"/> Pier Foundations & Drilled Pier Installation <input checked="" type="checkbox"/> TR5 BC 1704.8 |                                       |  |                              |
| <input type="checkbox"/> Pier Foundations BC 1704.9   |                                       |  |                              |
| <input type="checkbox"/> Underpinning BC 1704.9.1   |                                       |  |                              |
| <input type="checkbox"/> Wall Panels, Curtain Walls, and Veneers <input checked="" type="checkbox"/> BC 1704.10         |                                       |  |                              |
| <input type="checkbox"/> Sprayed Fire-Resistant Materials BC 1704.11  |                                       |  |                              |
| <input type="checkbox"/> Exterior Insulation Finish Systems (EIFS) BC 1704.12   |                                       |  |                              |
| <input type="checkbox"/> Alternative Materials - OTCR Buildings Bulletin # BC 1704.13                                   |                                       |  |                              |
| <input type="checkbox"/> Smoke Control Systems BC 1704.14   |                                       |  |                              |
| <input type="checkbox"/> Mechanical Systems BC 1704.15  |                                       |  |                              |
| <input type="checkbox"/> Fuel-Oil Storage and Fuel-Oil Piping Systems BC 1704.16  |                                       |  |                              |
| <input type="checkbox"/> High-Pressure Steam Piping (Welding) BC 1704.17  |                                       |  |                              |
| <input type="checkbox"/> Fuel-Gas Piping (Welding) BC 1704.18   |                                       |  |                              |
| <input type="checkbox"/> Structural Safety - Structural Stability BC 1704.19  |                                       |  |                              |
| <input type="checkbox"/> Mechanical Demolition BC 1704.19, BC 3306.6  |                                       |  |                              |

**RAISING/MOVING BUILDING**

TR1 PAGE 2

**3 Special Inspection Items (continued)** Required for all applications;  indicates report required.

| 3A -- Identification of Requirement  | 3B Identification of Responsibilities | 3C Certificate of Complete Inspections / Tests | 3D Withdraw Responsibilities |
|--|---------------------------------------|--|------------------------------|
| Y N Special Inspections Code/Section   | Initial & Date                        | Initial & Date                                 | Initial & Date               |
| <input type="checkbox"/> Excavation - Sheeting, Shoring, and Bracing BC 1704.19, BC 3304.4.1       |                                       |  |                              |
| <input type="checkbox"/> Soil Percolation Test - Drywell BC 1704.20.1                              |                                       |  |                              |
| <input type="checkbox"/> Raising and Moving of a Building BC 1704.19, BC 1704.27                   |                                       |  |                              |
| <input type="checkbox"/> Soil Percolation Test - Septic BC 1704.20.1                               |                                       |  |                              |
| <input type="checkbox"/> Site Storm Drainage Disposal and Detention System Installation BC 1704.20 |                                       |  |                              |
| <input type="checkbox"/> Septic System Installation BC 1704.20                                     |                                       |  |                              |
| <input type="checkbox"/> Sprinkler Systems BC 1704.21  |                                       |  |                              |
| <input type="checkbox"/> Standpipe Systems BC 1704.22  |                                       |  |                              |
| <input type="checkbox"/> Heating Systems BC 1704.23  |                                       |  |                              |
| <input type="checkbox"/> Chimneys BC 1704.24   |                                       |  |                              |
| <input type="checkbox"/> Firestop, Draftstop, and Fireblock systems BC 1704.25                     |                                       |  |                              |
| <input type="checkbox"/> Aluminum Welding BC 1704.26   |                                       |  |                              |
| <input type="checkbox"/> Seismic Isolation Systems BC 1707.9                                       |                                       |  |                              |
| <input type="checkbox"/> Concrete Test Cylinders <input checked="" type="checkbox"/> TR2 BC 1905.6 |                                       |  |                              |
| <input type="checkbox"/> Concrete Design Mix <input checked="" type="checkbox"/> TR3 BC 1905.3     |                                       |  |                              |

Submit TR2 to complete these items  
Submit TR3 to complete these items

**4 Progress Inspection Items** Required for all applications;  indicates report required.

| 4A -- Identification of Requirement  | 4B Identification of Responsibilities | 4C Certificate of Complete Inspections / Tests | 4D Withdraw Responsibilities |
|--|---------------------------------------|--|------------------------------|
| Y N Progress Inspections Code/Section  | Initial & Date                        | Initial & Date                                 | Initial & Date               |
| <input type="checkbox"/> Preliminary 2B-116.2.1, BC 109.2  |                                       |  |                              |
| <input type="checkbox"/> Footing and Foundation BC 109.3.1   |                                       |  |                              |
| <input type="checkbox"/> Lowest Floor Elevation (attach FEMA form) BC 109.3.2                                  |                                       |  |                              |
| <input type="checkbox"/> Frame Inspection BC 109.3.3   |                                       |  |                              |
| <input type="checkbox"/> Energy Code Compliance Inspections <input checked="" type="checkbox"/> TR9 BC 109.3.5 |                                       |  |                              |
| <input type="checkbox"/> Fire-Resistance Rated Construction BC 109.3.4   |                                       |  |                              |
| <input type="checkbox"/> Public Assembly Emergency Lighting 2B-116.2.2   |                                       |  |                              |
| <input type="checkbox"/> Final* 2B-116.2.4.2, BC 109.5, Directive 14 of 1975, and 1 RCNY §101-10               |                                       |  |                              |

\* For column 4C, indicate date when the actual final inspection was performed.

Submit TR9 to complete this item

**5 Design Applicant's Statements and Signatures** P.E./R.A. responsible for plans, choose both below and sign/seal.

I have identified all of the special inspections, progress inspections and tests required for compliance.

I certify that the Special Inspection and Approved Agencies engaged by the owner to supervise the work specified above are acceptable. (BC 1704.1)

Name (please print) \_\_\_\_\_  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
P.E. / R.A. Seal (apply seal; then sign and date over seal)

**6 Owner's Statement and Signature for Progress/Special Inspector** Required when inspection applicant identifies responsibilities.

I have reviewed the information provided herein and, to the best of my knowledge and belief, attest to its accuracy. I approve the identification of the responsible progress inspector. Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both. It is unlawful to falsify, alter, or tamper with any record, report, or other document.

**OTHER INSPECTIONS AS REQUIRED**

# V. APPLICATION PROCEDURE - DS1 FORM

- DS1 FORM REQUIRED PRIOR TO ISSUANCE OF PERMIT
- MUST SUBMIT DRAWINGS

ENTER ON FORM

## 1. Options

- A. PW1 APPLICANT
- B. PE/RA OTHER THAN PW1 APPLICANT

## 2. Partial Demo

## 3. Raising or Moving of Building

**NYC Buildings** **DS1: Demolition Submittal Certification Form**  
Must be typewritten.

Demolition drawings must be submitted along with this form. **MUST SUBMIT DRAWINGS**

Orbit and affix BIS job number label here

BIS Document No., required.

**1 Location Information** Required for all certifications.

House No(s) Street Name  
Borough Floor(s) **P.E./R.A OTHER THAN PW1 APPLICANT**

**2 Preparer Information** Required for all certifications.

Check all that apply:  PW1 Applicant  P.E./R.A. Other Than PW1 Applicant **PW1 APPLICANT**

Last Name First Name Middle Initial  
Business Name Business Telephone  
Business Address Business Fax  
City State Zip Mobile Telephone  
License Type  P.E.  R.A.  Other: License Number

**3 Demolition Description and Certification** Required prior to permit. Subsequent revisions must be submitted to the Department.

Indicate Submittal Type:  Initial submittal  Supersede existing submittal(s) - indicate scan code(s) of DS1 being superseded below Scan Code(s):

**3A Demolition Type:**  Full Demolition (DM)  Partial Demolition (Alteration) **PARTIAL DEMO**

**3B Demolition work will involve, per BC 3306.5 (authorized preparers indicated in parenthesis): Check all that apply**

Non-mechanical demolition means and methods only (P.E. or R.A. only) - **stop and proceed the section 3C**  
 Use of hand-held mechanical equipment (P.E. or R.A. only)  Work on interior of building  
 Use of other than hand-held mechanical equipment (P.E. only)  Work on exterior of building  
 Raising or Moving of a Building **RAISING OR MOVING BUILDING**

General description of the type(s) of mechanical demolition equipment used:

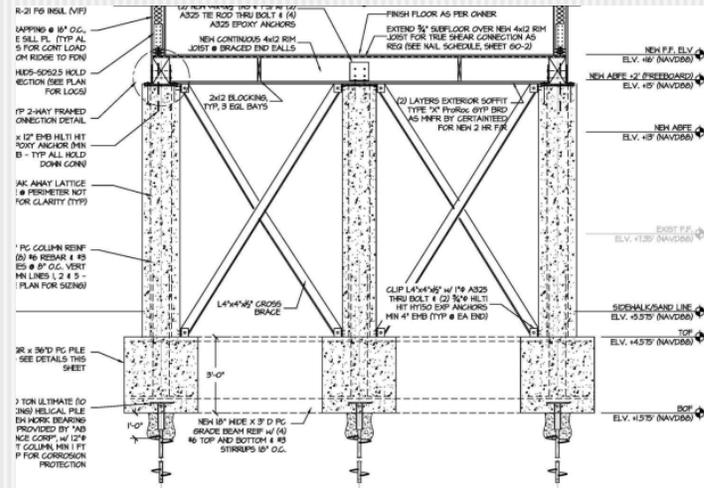
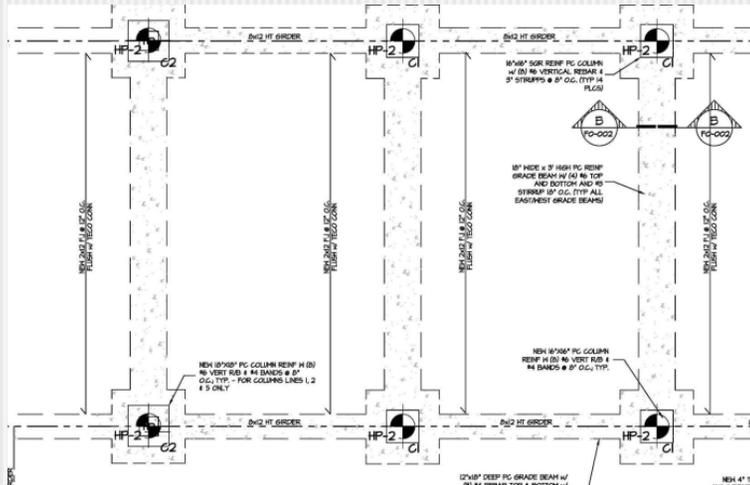
**3C** If superseding a previous plan submittal, indicate scan code(s) of the A11: (Note: any revisions/additions/deletion must be accompanied by an A11 form detailing all the plan changes)

NYC Buildings

# V. APPLICATION PROCEDURE – CONSTRUCTION PLANS

- Special inspection BC 1704.27 must be identified on the title sheet
- Must clearly identify the portion of existing building to be relocated, including its new location and elevation
- Indicate all permanent construction alteration
- Include Submittal Documents for Raising Ops (Option 1)

# V. APPLICATION PROCEDURE – CONSTRUCTION PLANS



PERMANENT CONSTRUCTION SHOWN  
ON STRUCTURAL OR FOUNDATION  
PLANS –  
***SPECIAL INSPECTION AS REQUIRED***

## V. APPLICATION PROCEDURE – SUBMITTALS FOR RAISING OPERATIONS

- Each drawing clearly identified with “DM” (Demolition)
- Prepared by a registered design professional
- Submitted to the department in advance of the issuance of a permit
- This registered design professional (RDP) can be the applicant of record, or a different RDP where such RDP submits a DS1 form and attaches the design of the raising operations

## V. APPLICATION PROCEDURE – SUBMITTAL DOCUMENTS FOR RAISING OPERATIONS

- Capacity of the soil to temporarily support any installation used in the raising or moving operation.
- Maximum weight of the building or portion to be raised.
- Loads at support points.
- The lateral loads to be resisted. (environmental loads or due to permitted misalignment).
- Limits for deviation from horizontal or plumb lines.
- Type (rating) of machinery and installation to be used
- Construction/installation necessary to maintain the safety and integrity of the building to be raised
- Protection of pedestrians and adjoining buildings

# V. APPLICATION PROCEDURE – SUBMITTAL DOCUMENTS FOR RAISING OPERATIONS

Drawings shall identify:

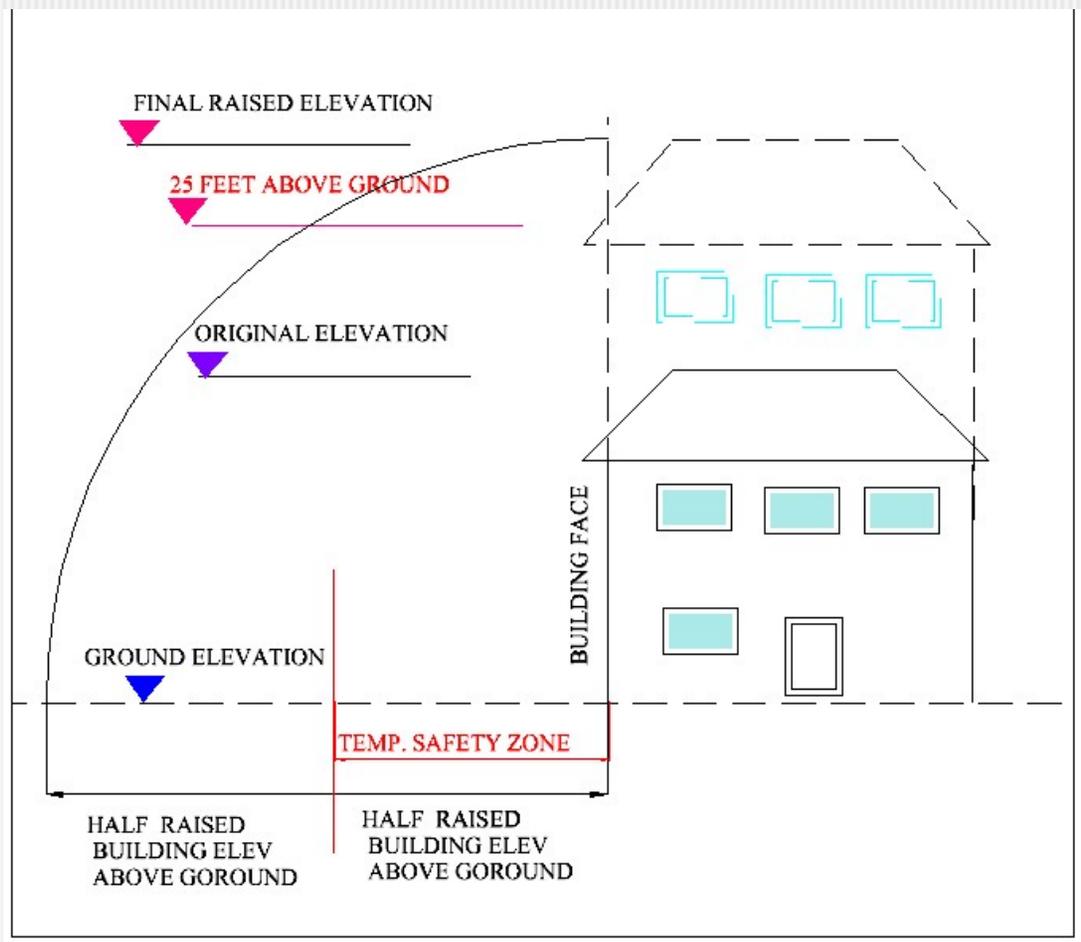
- Approximate location of jacks and cribbing towers;
- Minimum size of base for jacks;
- Details for possible extensions of support beams;

# PROTECTION OF PEDESTRIANS AND ADJOINING BUILDINGS.

- BC 3306.2, *Protection of pedestrians and adjoining property* - except that netting per BC 3308 is not required
- Special requirements for raised building exceeding 25 feet

# ELEVATING BUILDINGS ABOVE 25 FEET

- TEMPORARY SAFETY ZONE
- SPECIAL INSPECTOR REQUIRED DURING LIFTING OPERATION ABOVE 25 FEET



## VI. FREQUENCY OF SPECIAL INSPECTION

- First inspection when the site and building preparation for raising or moving is completed (No raising or moving shall be permitted before acceptance by the special inspector)
- Witness the first lift
- Present at a minimum one other subsequent lift
- One weekly inspection for period between the first lift till sign-off
- In addition — during all actual raising of the building when the such raising exceeds twenty five feet

# INSPECTION –ADDITIONAL ITEMS OF INTEREST

- The existing structure should be secured and placed on supports prior to any cutting or breaking the structure free of supports
- Cribs or jacks installed outside excavations or basement walls shall not impart any pressure on these walls
- Bases of jacks or cribs need to be inspected after heavy rains

## VII. INSPECTION SIGN-OFF

- At the end of the process, the special inspector shall certify that the raised, lifted, elevated or moved building was securely attached to permanent construction in its new elevation and/or location

## RECENT LOCAL LAWS AMENDING THE 2008 CODES:

- **Local Law 51/13 (Intro 1057/13) – Permit Fee Waivers**
  - Extends waiver of certain permit and inspection fees for plumbing and electrical work related to Hurricane Sandy
- **Local Law 82/13 (Intro 1095A/13) – Flood Manual**
  - DOB required to develop and maintain manual on flood-resistant design and construction requirements

# LOCAL LAW 83/13 (INTRO 1098A/13): Prevention of Backflow

What does it do?

Modifies:

- PC 715.1: Sanitary Drainage - Sewage Backflow
- PC 1101.9: Storm Drainage – Backwater Valves
- BC Appendix G, G501.1: Flood-Resistant Construction – Amendments to ASCE 24-05

Effective date: Initial permits issued on or after 12/31/2013

# LOCAL LAW 83/13 (INTRO 1098A/13): Prevention of Backflow

## What does it do?

### PC 715.1 Sewage backflow

- Existing PC 715.1 requires backwater valves when fixtures, drains are subject to backflow from public sewer system
- Added text clarifies:
  - Buildings in Special Flood Hazard Areas are subject to backflow, and
  - Such buildings shall be provided with backwater valves in accordance with Appendix G of the New York City Building Code.

# LOCAL LAW 83/13 (INTRO 1098A/13): Prevention of Backflow

## What does it do?

### PC 1101.9 Backwater valves

- Existing PC 1101.9 requires backwater valves installed in storm drainage systems to comply with PC 715
- New Section PC 101.9.1 clarifies:
  - Buildings in Special Flood Hazard Areas are subject to backflow, and
  - Such buildings shall be provided with backwater valves in accordance with Appendix G of the New York City Building Code.

# LOCAL LAW 83/13 (INTRO 1098A/13): Prevention of Backflow

What does it do?

BC Appendix G, G501.1 Modifications to ASCE 24-05

- **Section 7.3.3 Plumbing Systems Installed Below Minimum Elevations**
  - Section 7.3.3 already requires plumbing systems with openings below specified elevations be provided with automatic backwater valves or other automatic backflow devices
  - LL 83/13 added sentence for clarity: “Plumbing systems shall be provided with backwater valves in the building drain at its point of exit from the building and downstream of the building trap.”

# LOCAL LAW 83/13 (INTRO 1098A/13): Prevention of Backflow

What does it do?

BC Appendix G, G501.1 Modifications to ASCE 24-05

- Section 7.3.4 Sanitary systems
  - Section 7.3.4 already requires sanitary systems to be designed to resist effects of flooding (e.g. infiltration of water, scour, erosion, buoyancy, etc.)
  - LL83/13 added sentence for clarity: “Sanitary systems shall be provided with backwater valves at the point of exit from the building and downstream of the building trap.”

# LOCAL LAW 95/13 (INTRO 983A/13): HEALTH-CARE FACILITIES

What does it do?

Modifies:

- BC 202: Definitions
- BC Appendix G, G106.4: Dry floodproofed spaces
- BC Appendix G, G201.2: Definitions
- BC Appendix G, G304.1.2: Non-residential A-zone construction standards

Effective date: Initial permits issued on or after 11/19/2013

# LOCAL LAW 95/13 (INTRO 983A/13): HEALTH-CARE FACILITIES

What does it do?

BC 202/BC Appendix G, G201.2 Definitions

- **PATIENT CARE AREA (FOR FLOOD ZONE PURPOSES).** Any space meeting the following conditions:
  - 1. The space is located within a building or structure, or portion thereof, that is classified in Group I-2; and
  - 2. The space is primarily used for the provision of medical services to persons, including, but not limited to, consultation, evaluation, monitoring and treatment services.
- **For buildings utilizing the dry floodproofing option (BC G304.1.2):**
  - “All rooms and spaces within dwelling units, patient care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation”

# LOCAL LAW 95/13 (INTRO 983A/13): HEALTH-CARE FACILITIES

What does it do?

BC 202/BC Appendix G, G201.2 Definitions

- PATIENT CARE AREA (FOR FLOOD ZONE PURPOSES).
- Exceptions: The following spaces shall not be considered patient care areas (for flood zone purposes):
  - 1. "Emergency rooms or departments" as defined in 10 NYCRR 700.2(a)(2) and
  - 2. Spaces primarily used for the provision of medical services identified in 10 NYCRR 703.6(c)(2)(i).

# LOCAL LAW 95/13 (INTRO 983A/13): HEALTH-CARE FACILITIES

## What does it do?

### BC 202/BC Appendix G, G201.2 Definitions

- Exceptions: The following spaces shall not be considered patient care areas (for flood zone purposes):
  - 10 NYCRR 700.2(a)(2) – *“Emergency room or department shall mean a designated area of a hospital that includes one or more reception and treatment rooms appropriately staffed and equipped to provide prompt and efficient care of emergency patients in accordance with the provisions of Subchapter C of this Chapter.”*
  - 10 NYCRR 703.6(c)(2)(i) – *“services that require specialized equipment such as radiographic equipment, computerized axial tomography, magnetic resonance imaging or that required for renal dialysis”*

# LOCAL LAW 95/13 (INTRO 983A/13): HEALTH-CARE FACILITIES

## What does it do?

### BC Appendix G, Flood-Resistant Construction

- **G106.4 Dry floodproofed spaces**
  - For such buildings containing dwelling units, patient care areas (for flood zone purposes) or spaces intended to be used by persons for sleeping purposes, the certificate of occupancy shall also provide the notations required by Section G304.1.2, Item 2.2.5.
- **G304.1.2, Item 2.2**
  - Additional edits to make items 2.2.2 – 2.2.4 applicable to buildings with dwelling units only
- **G304.1.2, Item 2.2.5**
  - A restrictive declaration noting the above restrictions shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy.

# LOCAL LAW 96/13 (INTRO 990A/13): Survey Data And Flood Maps

What does it do?

Modifies:

- § 28-104.7.6 City Datum
- BC Appendix G as it pertains to Flood Insurance Rate Maps

# LOCAL LAW 96/13 (INTRO 990A/13): Survey Data And Flood Maps

## What does it do?

### § 28-104.7.6 City datum

- New referenced elevation datum requirements
  - All elevations must now refer to North American Vertical Datum of 1988 (NAVD 1988)
  - Effective for new projects submitted on or after January 6, 2014
  - Previously submitted surveys in National Geodetic Vertical Datum of 1929 or Borough Data should submit any required final surveys or amended surveys in the referenced data that was previously accepted.
  - Applies regardless of whether the project is located in a flood zone or not.

# Datum Conversion

Table 104.7.6.4

| QUEENS Elevations | To obtain NGVD Equivalency: | NGVD Elevations  | To obtain NAVD Equivalency:            | NAVD Elevations  |
|-------------------|-----------------------------|------------------|--|------------------|
| 8.361 to 8.381    | -> Add 2.725->              | 11.086 to 11.106 | -> Subtract between 1.086 and 1.106 -> | 10.000           |
| 10.000            | -> Add 2.725->              | 12.725           | -> Subtract between 1.086 and 1.106 -> | 11.619 to 11.639 |
| 7.275             | -> Add 2.725->              | 10.000           | -> Subtract between 1.086 and 1.106 -> | 8.914 to 8.894   |

## Notes:

- When going from **NGVD29 to NAVD88**, the output number is **subtracted** from the given elevations.
- When going from **NAVD88 to NGVD29**, the output number is **added** to the given elevations.
- The National Oceanic and Atmospheric Administration (NOAA) of the US Department of Commerce is an agency that provides daily weather forecasts, severe storm warnings and climate monitoring. Learn about NOAA at [noaa.gov/about-noaa.html](http://noaa.gov/about-noaa.html). The National Geodetic Survey (NGS) of NOAA provides the framework for all positioning activities in the nation, such as latitude, longitude, elevation and shoreline information.
- To convert from NGVD 29 to NAVD88, visit NGS at [ngs.noaa.gov/cgi-bin/VERTCON/vert\\_con.prl](http://ngs.noaa.gov/cgi-bin/VERTCON/vert_con.prl).

# LOCAL LAW 96/13 (INTRO 990A/13): Survey Data And Flood Maps

## What does it do?

### BC Appendix G

- All projects must comply with the more stringent of either
  - the 2007 FEMA FIRMs, or
  - the 2013 FEMA PFIRMs. Applies to:
- New PFIRM map requirements apply to initial permits issued on or after Monday, January 6, 2014 (even if plan approval is obtained prior to this date).

# LOCAL LAW 96/13 (INTRO 990A/13): Survey Data And Flood Maps

**NFIP**

PANEL 0084F

**FIRM**  
FLOOD INSURANCE RATE MAP

CITY OF  
**NEW YORK,  
NEW YORK**  
BRONX, RICHMOND, NEW YORK,  
QUEENS, AND KINGS COUNTIES

PANEL 84 OF 457

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY         | NUMBER | PANEL | SUFFIX |
|-------------------|--------|-------|--------|
| NEW YORK, CITY OF | 360497 | 0084  | F      |

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



**MAP NUMBER**  
3604970084F

**MAP REVISED**  
SEPTEMBER 5, 2007

Federal Emergency Management Agency

**NATIONAL FLOOD INSURANCE PROGRAM**

**NFIP**

PANEL 0366G

**FIRM**  
FLOOD INSURANCE RATE MAP

CITY OF,  
**NEW YORK  
NEW YORK**  
BRONX, RICHMOND, NEW YORK,  
QUEENS, AND KINGS COUNTIES

PANEL 366 OF 457

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY         | NUMBER | PANEL | SUFFIX |
|-------------------|--------|-------|--------|
| NEW YORK, CITY OF | 360497 | 0366  | G      |

- NOTE -  
THIS MAP INCLUDES BOUNDARIES OF THE COASTAL BARRIER RESOURCES SYSTEM ESTABLISHED UNDER THE COASTAL BARRIER RESOURCES ACT OF 1982 AND/OR SUBSEQUENT ENABLING LEGISLATION.

**PRELIMINARY**  
**DECEMBER 5, 2013**

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



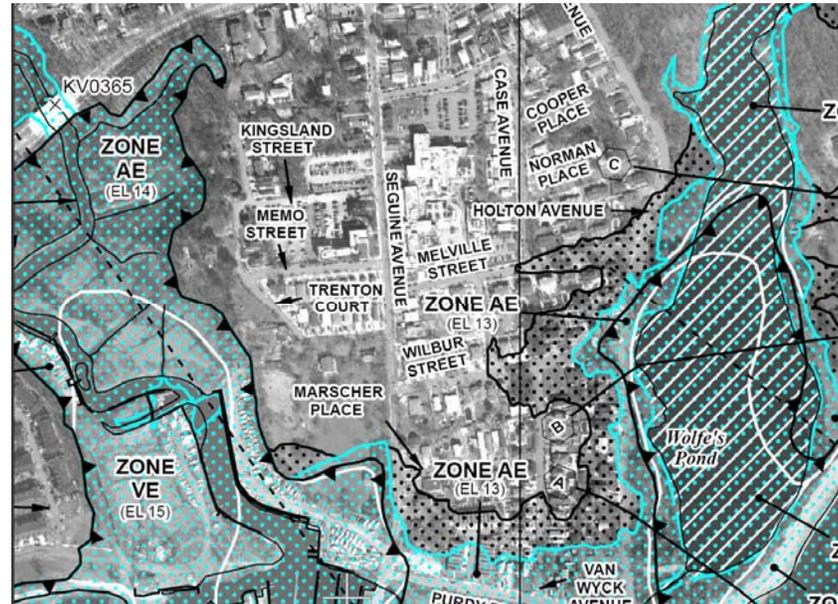
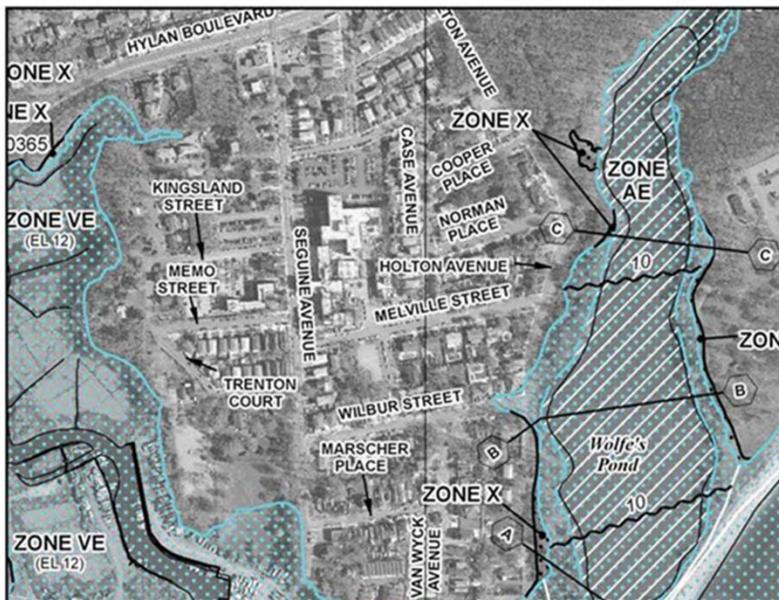
**MAP NUMBER**  
3604970366G

**MAP REVISED**

Federal Emergency Management Agency

**NATIONAL FLOOD INSURANCE PROGRAM**

# LOCAL LAW 96/13 (INTRO 990A/13): Survey Data And Flood Maps



NATIONAL FLOOD

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER  
3604970084F

MAP REVISED  
SEPTEMBER 5, 2007

Federal Emergency Management Agency

NATIONAL FLOOD

ENABLING LEGISLATION.

**PRELIMINARY**  
**DECEMBER 5, 2013**

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



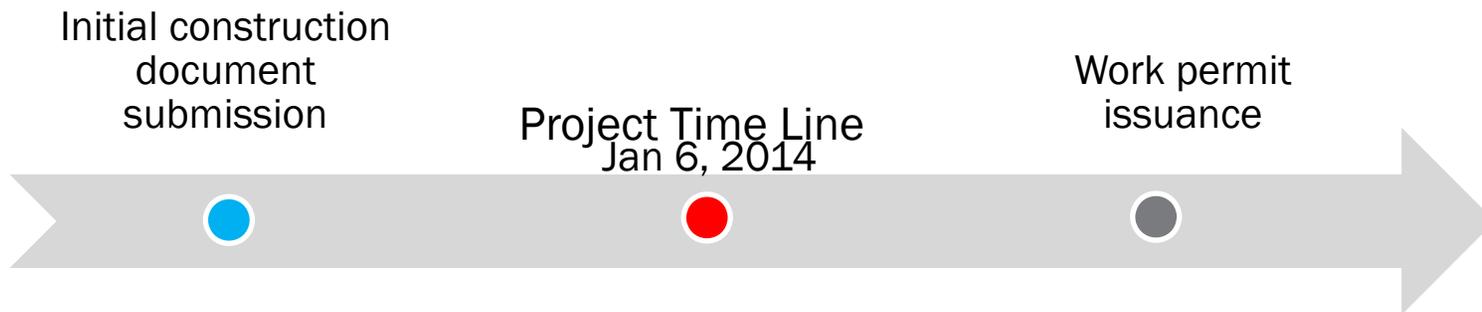
MAP NUMBER  
3604970366G

MAP REVISED

Federal Emergency Management Agency

# LOCAL LAW 96/13 (INTRO 990A/13): Survey Data And Flood Maps

## FLOOD ZONE PROJECT



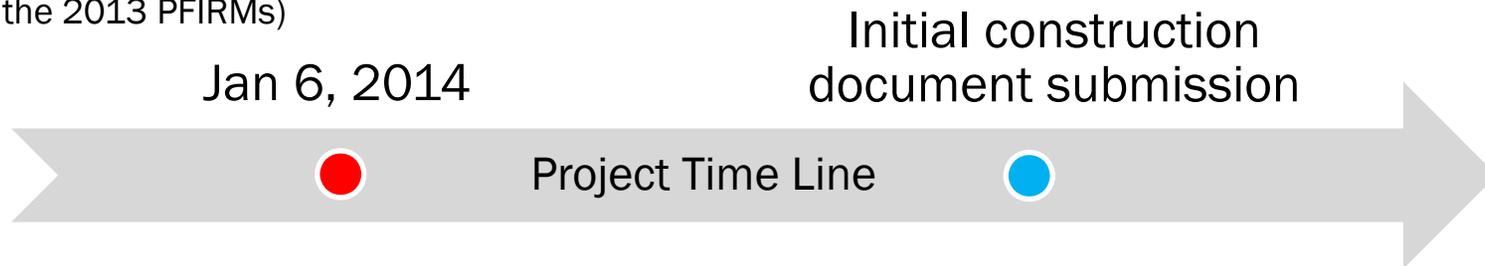
### Sample objection for more stringent map:

|                                    |  |
|------------------------------------|--|
| LL 96/13<br>BC G102.2.2,<br>Item 2 | Provide map panel from the effective 2007 FIRMs and the map panel from the 2013 PFIRMs. For jobs that will obtain its initial construction work permit on or after 1/6/14, building must comply with the more stringent of the 2007 FIRMs and 2013 PFIRMs. |
|------------------------------------|--|

# LOCAL LAW 96/13 (INTRO 990A/13): Survey Data And Flood Maps

## FLOOD ZONE PROJECT

(i.e., in a flood zone on either the effective 2007 FIRMs or the 2013 PFIRMs)



## Sample objection for more stringent map:

|                                    |  |
|------------------------------------|--|
| LL 96/13<br>BC G102.2.2,<br>Item 2 | Provide map panel from the effective 2007 FIRMs and the map panel from the 2013 PFIRMs. For jobs that will obtain its initial construction work permit on or after 1/6/14, building must comply with the more stringent of the 2007 FIRMs and 2013 PFIRMs. |
|------------------------------------|--|

# LOCAL LAW 99/13 (INTRO 1089A/13): CABLING & FUEL OIL STORAGE IN FLOOD-PRONE AREAS

What does it do?

Modifies:

- NYC Electrical Code
- BC 202: Definitions
- BC Appendix G, Flood-resistant construction

Effective date: Initial permits issued on or after 11/19/2013

# LOCAL LAW 99/13 (INTRO 1089A/13): CABLING & FUEL OIL STORAGE IN FLOOD-PRONE AREAS

## What does it do?

### NYC Electrical Code

- Unlisted conductive and nonconductive outside plant optical fiber cables entering buildings may exceed 15m (50 ft) length in the 100-year and 500-year flood plains, for the purpose of locating equipment above potential flood waters.
- Clarifies that electrical work performed in buildings in flood zones must comply with Appendix G of the NYC Building Code

# LOCAL LAW 99/13 (INTRO 1089A/13): CABLING & FUEL OIL STORAGE IN FLOOD-PRONE AREAS

## What does it do?

### BC 202, BC Appendix G, G201.2 Definitions

- **500-YEAR FLOOD ELEVATION.** The elevation of the flood having a 0.2-percent chance of being equaled or exceeded in any given year, as specified on FEMA FIRM 360497 or FEMA FIS 360497.
  - **G103.3.1** – When 500-Year Flood elevation not specified, elevation must be determined by Registered Design Professional based on available information or analysis
- **SHADED X-ZONE.** The land in the floodplain delineated as subject to a 0.2-percent or greater chance of flooding, but less than one percent chance of flooding, in any given year. Such areas are designated on the Flood Insurance Rate Map (FIRM) as shaded X-Zones.

# LOCAL LAW 99/13 (INTRO 1089A/13): CABLING & FUEL OIL STORAGE IN FLOOD-PRONE AREAS

What does it do?

BC Appendix G, G307.4

- Fuel-oil storage increases permitted above the design flood elevation in Special Flood Hazard Areas and Shaded X-zones
  - 3,000 gallons total on lowest story having its floor above DFE
  - Each tank limited to lesser of 1,500 gallons per tank or 24-hour supply
  - Tanks shall be enclosed in a vault with a 3-hour fire-resistance rating
  - Vault shall be located in a dedicated room/area separated from other areas by 2-hour fire-resistance rated construction
  - Vault Shall be protected with alternative automatic fire-extinguishing system

# LOCAL LAW 109/13 (INTRO 1093A/13): FLOOD BARRIERS

What does it do?

Modifies:

- BC 32: Encroachments into the Public Right-of-Way
- BC Appendix G, Flood-resistant construction

Effective date: Initial permits issued on or after 12/02/2013

# LOCAL LAW 109/13 (INTRO 1093A/13): FLOOD BARRIERS

What does it do?

## BC 32 Encroachments into the Public Right-of-Way

- **BC 3201.9 Department of Transportation Approval**
  - Clarifies that all encroachments beyond what is described in BC 32 require DOT approval
- **BC 3202.1.1.1 Footings**
  - Allows footings for the support of temporary flood barriers to project up to 12” beyond the street line in areas of special flood hazard or shaded X-Zones
- **BC 3202.2.2.3 Flood shield supports**
  - Allows supports for temporary flood barriers or shields to project up to 6” beyond the street line in areas of special flood hazard or shaded X-Zones
- **BC 3202.4.3 Temporary flood shields, stairs and ramps**
  - Allows temporary flood shields, stairs and ramps to project 12” beyond the street line in areas of special flood hazard or shaded X-Zones

# LOCAL LAW 109/13 (INTRO 1093A/13): FLOOD BARRIERS

What does it do?

## BC Appendix G, Flood-Resistant Construction

- **BC G308.6 Temporary flood shields**
  - Temporary flood shields shall be permitted in accordance with Section 6.2.3 of ASCE 24
- **BC G308.7.1 Temporary Stairs in Evacuated Buildings**
  - Temporary stairs and ramps permitted provided the building submits a flood emergency plan approved by the Department as required in ASCE 24
  - Dwelling units, patient care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes cannot be considered for evacuation plans
- **BC G308.7.2 Temporary Stairs in Existing Buildings**
  - Temporary stairs and ramps permitted provided the building submits a flood emergency plan approved by the Department as required in ASCE 24
  - Temporary stairs and ramps permitted can be used as a required means of egress for dwelling units, patient care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes, where such temporary stairs and ramps comply with Sections 1009 and 1010

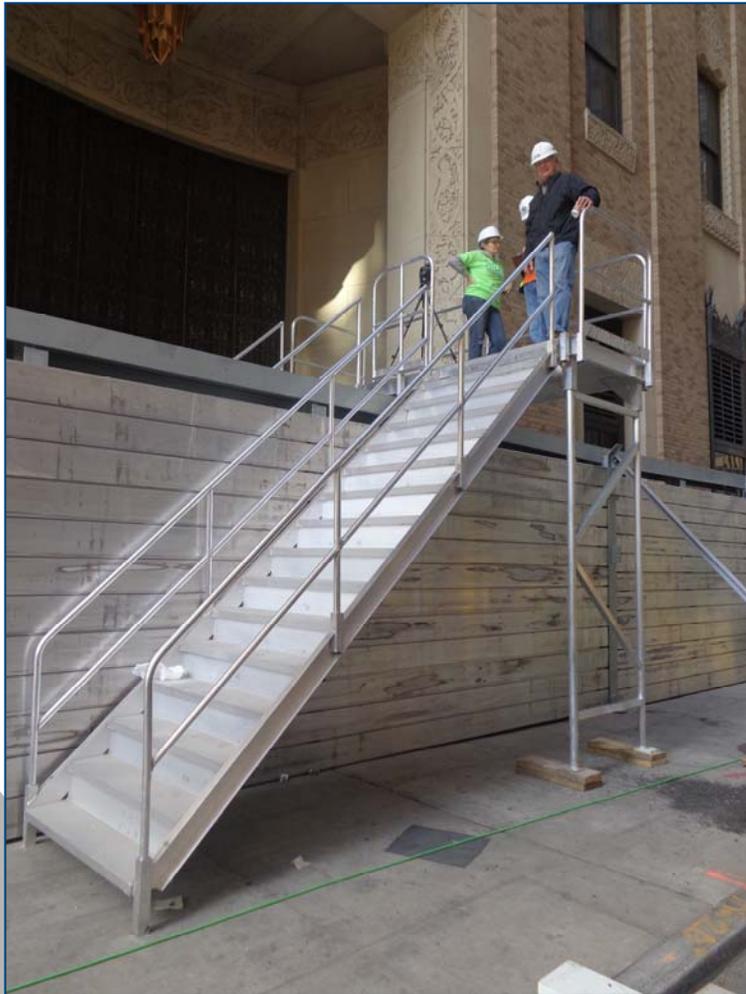
# LOCAL LAW 109/13 (INTRO 1093A/13): FLOOD BARRIERS

What does it do?

## BC Appendix G, G501 Modifications to ASCE 24

- **Section 6.2.2 Dry Floodproofing**
  - Requires 1 exit above the DFE for each required exit
- **Section 6.2.3 Limits on Human Intervention**
  - Requires emergency flood plan to be approved by Department
- **DOB to develop Buildings Bulletin**
  - Coordination with DOT & FDNY Issues
  - DOT – Encroachments beyond BC 32 limits & license to install temporary shields and stairs
  - FDNY – Impairment of fire suppression systems & ingress

# LOCAL LAW 109/13 (INTRO 1093A/13): FLOOD BARRIERS



**LOCAL LAW 111 OF 2013 (INTRO 1101A/13)  
EMERGENCY AND STANDBY POWER SYSTEMS AND  
NATURAL GAS USAGE**

## Local Law 111 Of 2013 (INTRO 1101A/13)

What is the purpose of an emergency power system?

Per NEC emergency power systems are design to provide power to essential equipment.

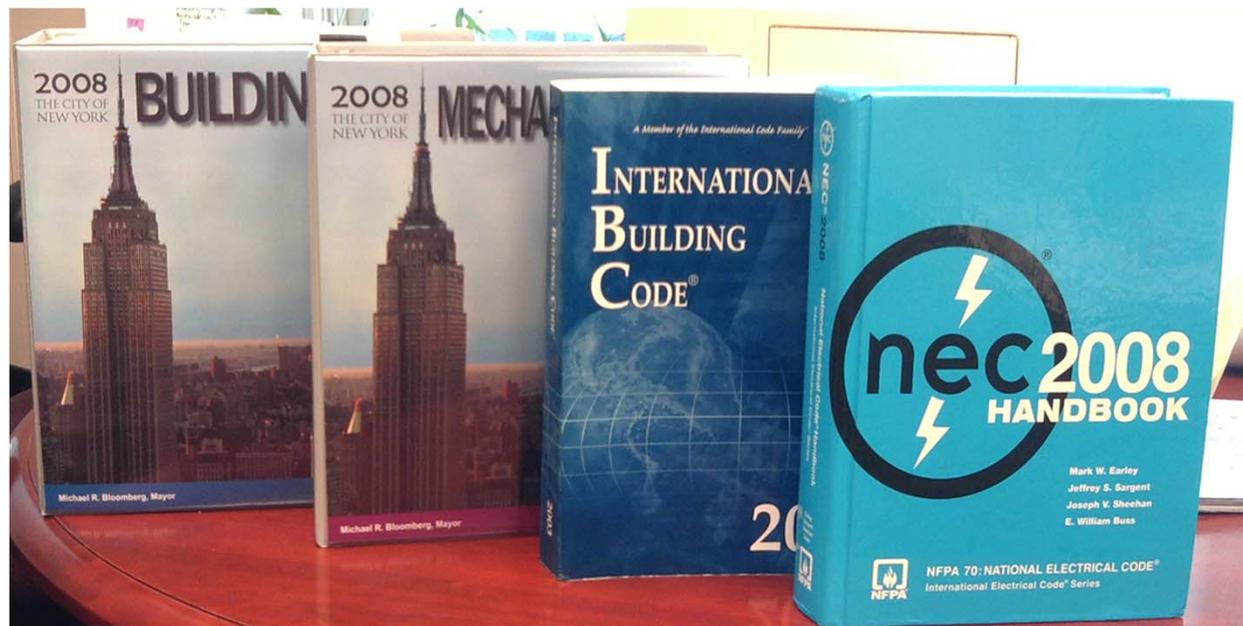
What is the purpose of a standby power system?

Per NEC standby power systems are design to provide power to systems and equipment that when stopped during any interruption of normal electric supply, would create hazards or hamper rescue or fire fighting operations.

# Local Law 111 Of 2013 (INTRO 1101A/13)

## Modifies:

- Electric Code Chapter 7
- 2008 New York City Building Code Chapters 4, 9, 10, 17, 27, 30, and 31
- MC Chapter 5



# Local Law 111 Of 2013 (INTRO 1101A/13)

Amends the 2008 Construction Codes and the 2011 NYC Electric Code to:

- Introduce required standby power systems
- Introduce optional standby power systems
- Dictate which occupancies are required to provide standby and emergency systems
- Dictate which loads are required to be supported by standby and emergency systems

## Local Law 111 Of 2013 (INTRO 1101A/13)

Amends 2008 NYC Building Code to specify that optional standby power systems must power the following loads:

- Emergency lighting
- Fire alarm systems
- Elevators as follows:
  - R-2 occupancies in building greater than 125 feet in height
  - All other buildings with occupied floors 75 feet above lowest level of FDNY access

# Local Law 111 Of 2013 (INTRO 1101A/13)

Amends the 2008 Construction Codes and the 2011 NYC Electric Code to:

- Permit fuel cells as a source of power for:
  - Emergency systems serving R-2 occupancies
  - Standby systems in all buildings



<http://www.fuelcells.org/uploads/SamsungGS-Power-Anyang-S.-Korea-UTC-Power.jpg>

# Local Law 111 Of 2013 (INTRO 1101A/13)

Amends the 2008 Construction Codes and the 2011 NYC Electric Code to:

- Permit natural gas from a public utility as a sole fuel supply for:
  - Emergency systems serving R-2 occupancies
  - Standby systems in all buildings

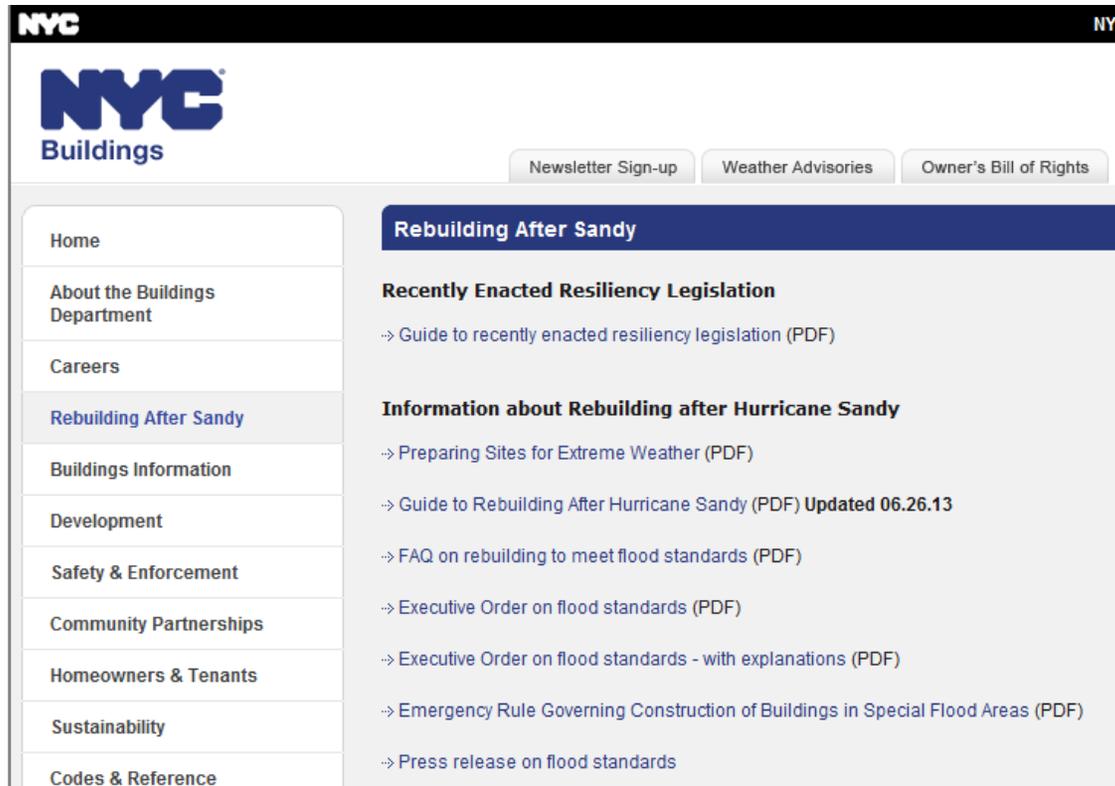


<http://www.generator-turbine-powerplant.com/wp-content/uploads/2012/01/2000-KW-Rolls-Royce-KV12-GS-Gas-Generator-Set.-1jpg.jpg>

# Local Law 111 Of 2013 (Intro 1101A/13)

Applies to all initial work permits issued on or after Monday, December 2, 2013 (even if plan approval is obtained prior to this date).

# FOR MORE INFORMATION PLEASE VISIT: [NYC.GOV/BUILDINGS](http://nyc.gov/buildings)



The screenshot shows the NYC Buildings website interface. At the top left is the NYC Buildings logo. To the right of the logo are three buttons: 'Newsletter Sign-up', 'Weather Advisories', and 'Owner's Bill of Rights'. Below the logo is a vertical navigation menu with the following items: Home, About the Buildings Department, Careers, Rebuilding After Sandy (highlighted), Buildings Information, Development, Safety & Enforcement, Community Partnerships, Homeowners & Tenants, Sustainability, and Codes & Reference. The main content area is titled 'Rebuilding After Sandy' and contains two sections: 'Recently Enacted Resiliency Legislation' with a link to a PDF guide, and 'Information about Rebuilding after Hurricane Sandy' with several links to PDFs, including one updated on 06.26.13, and a press release on flood standards.

Email: [ConstructionCodes@buildings.nyc.gov](mailto:ConstructionCodes@buildings.nyc.gov)