

Scope of Excavation Work In 2011

New Buildings: 1,479

Alterations w/Horizontal Enlargements: 1,202

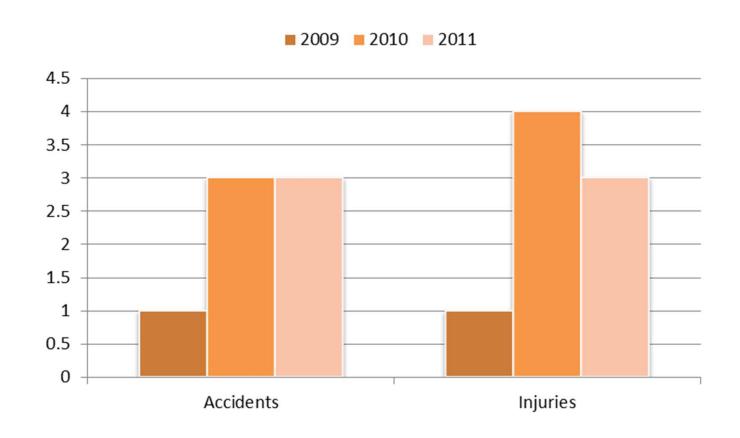
Excavation Notifications: 1,364

Excavation Complaints: 1,792

Excavation Unit Inspections Performed: 2,907



Excavation Accidents and Injuries





Common Excavation Safety Issues

Missing/Inadequate Guardrails BC 3307.8

Inadequate Construction Fencing BC 3307.7

Inadequate Egress BC 3303.11

Truck Ramps BC 3315.1

Sheer Cut/Improper Angle of Repose BC 3304.4



Common Excavation Safety Issues (Cont.)

Improper Sheeting, Shoring, and Bracing BC 3304.4.1

Improper Excavation Sequencing BC 3304.4

Lack of Box Pit Shoring BC 3304.4

Un-braced Underpinning BC 3309

Excessive Water in Excavation BC 3304.8



Responsible Parties

Permit Holder/Contractor BC 3301.2

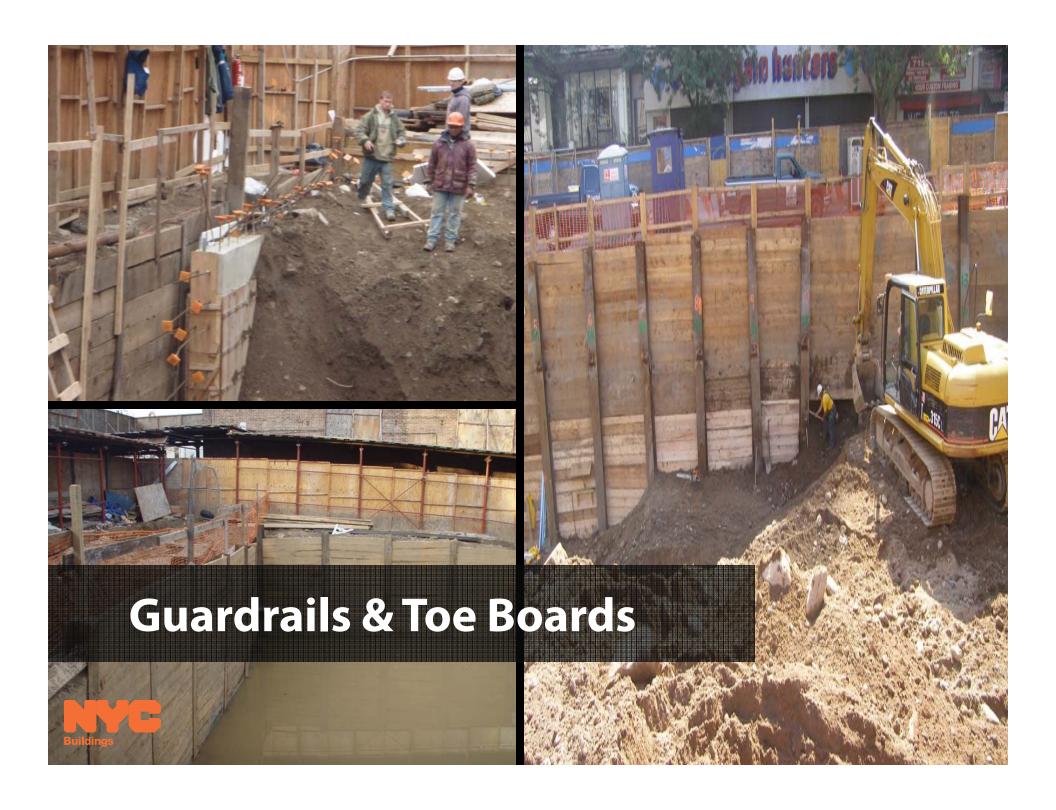
Site Safety Manager BC 3301.3

Construction Superintendent BC 3301.3, RCNY 48-02

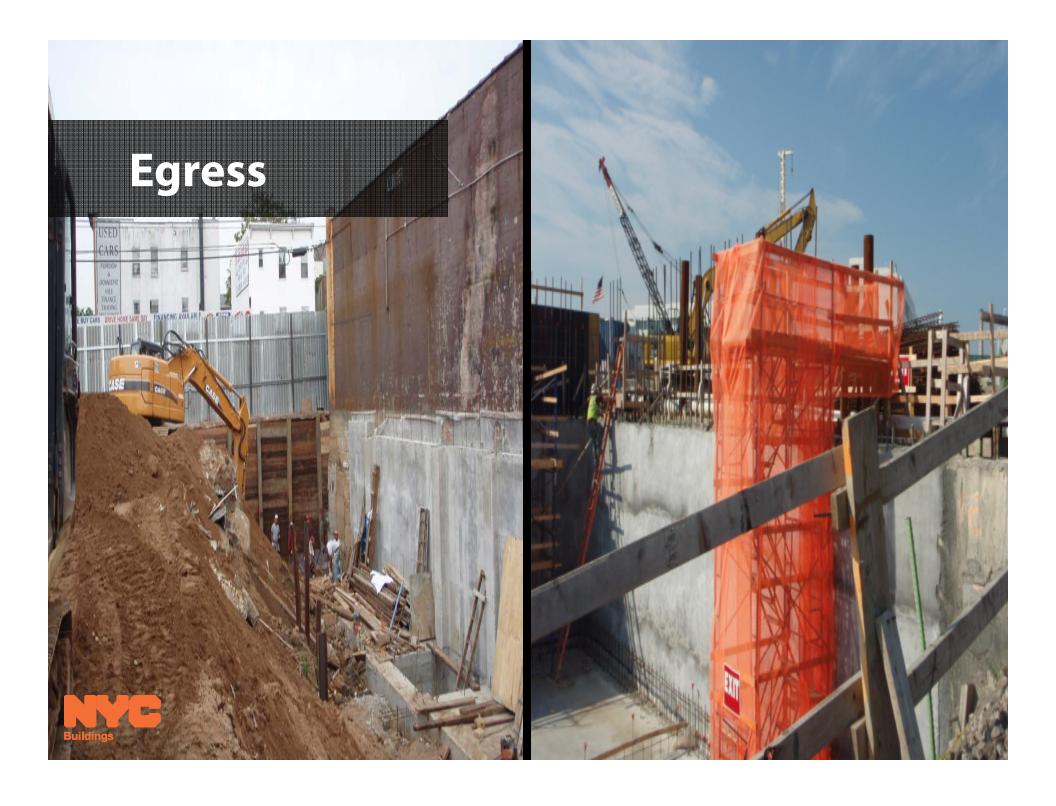
Design Professional BC 3301.7, 1604.1, 28-104.7.1

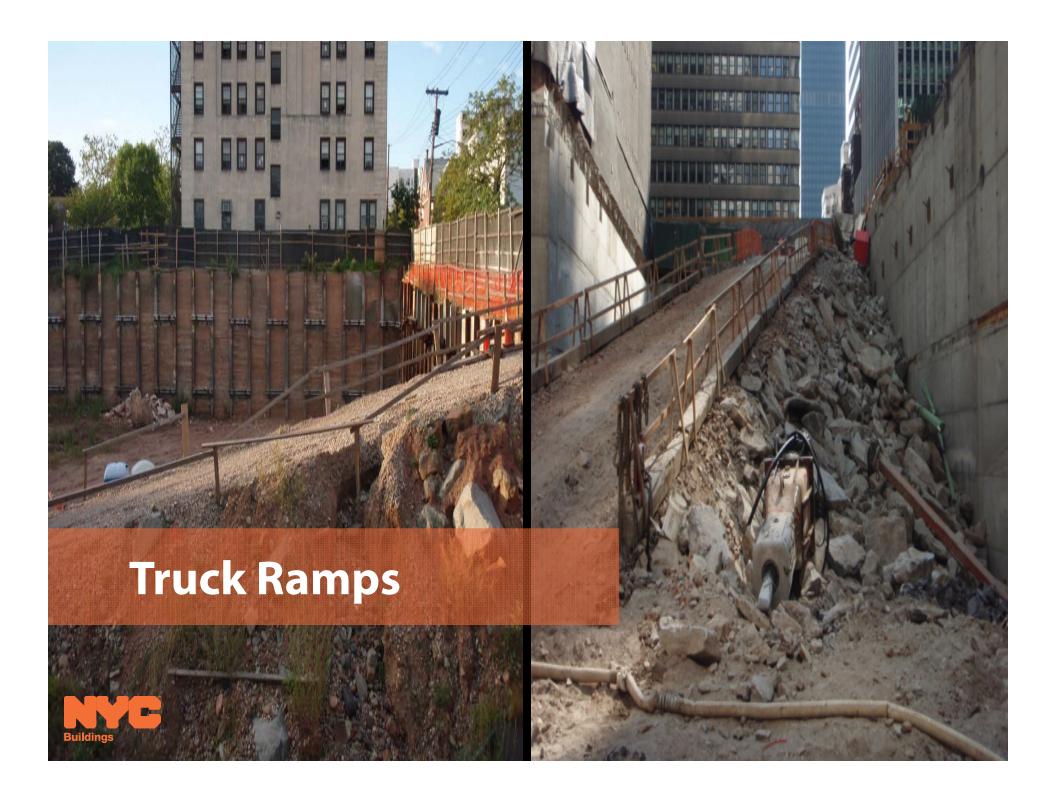
Special Inspector **BC 1704.1, 28-116.2.3**





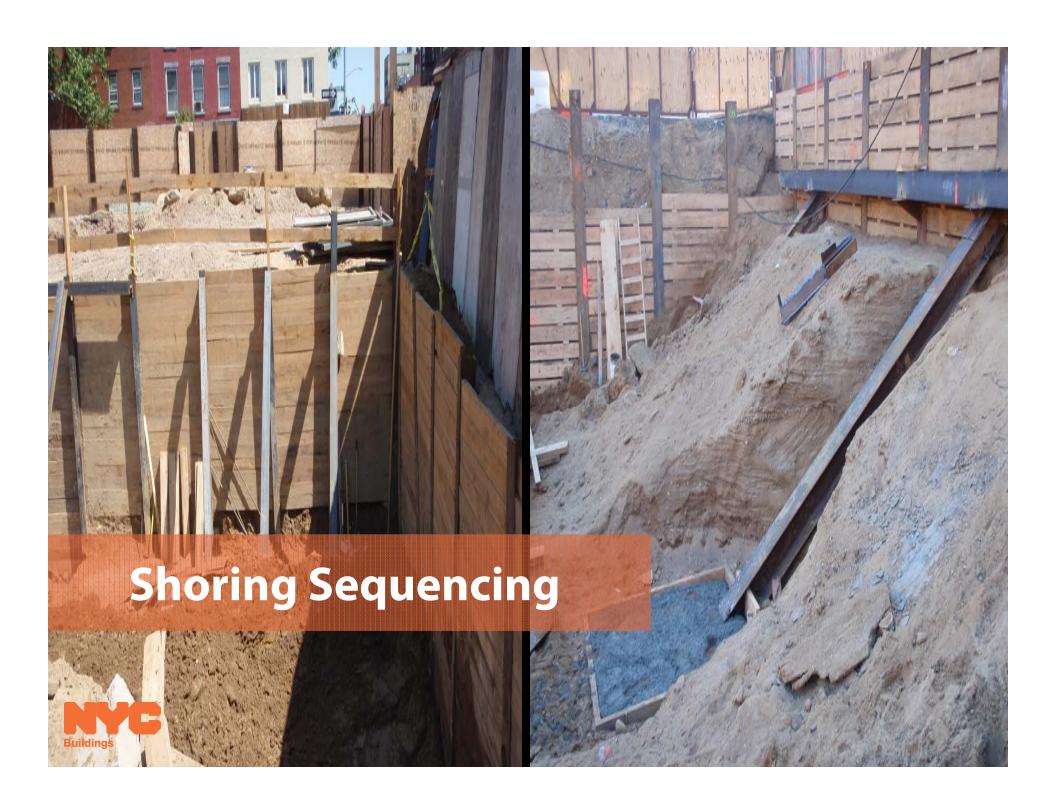


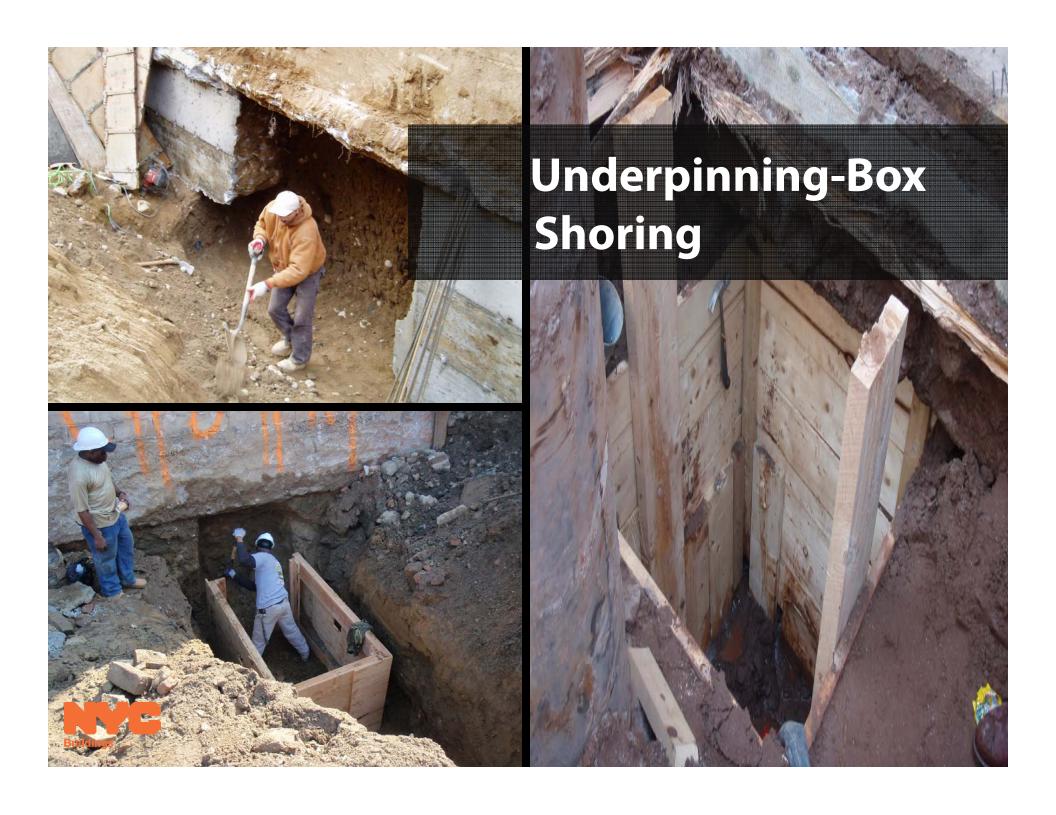




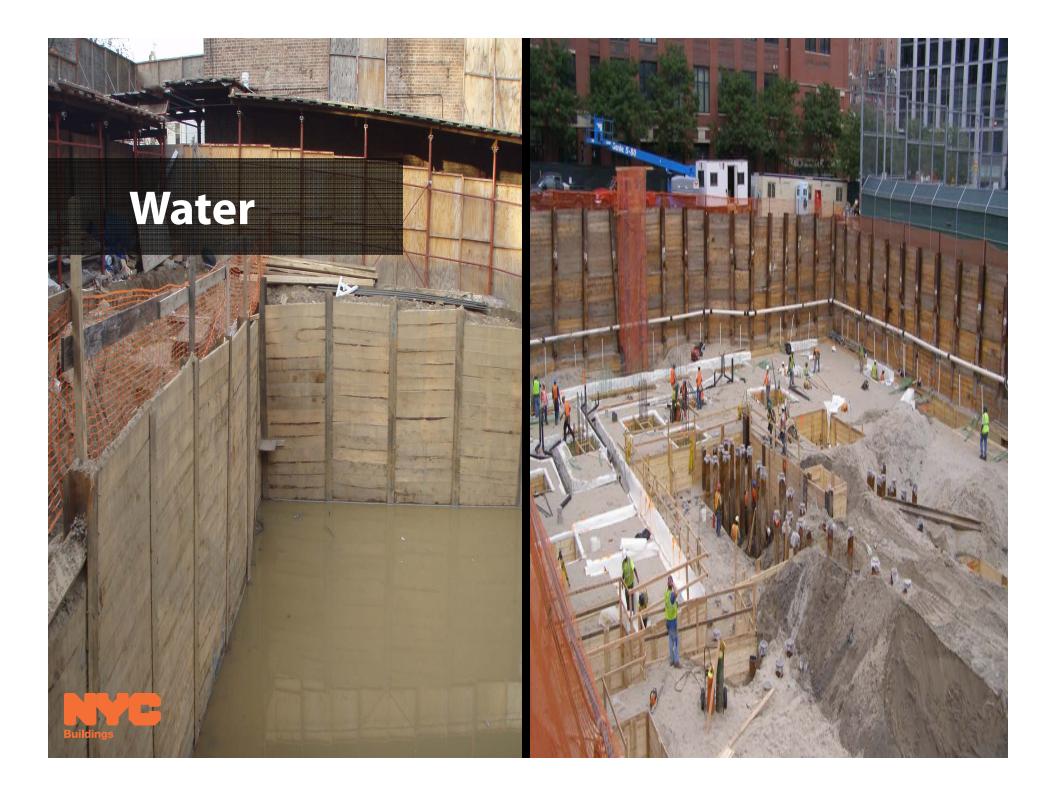


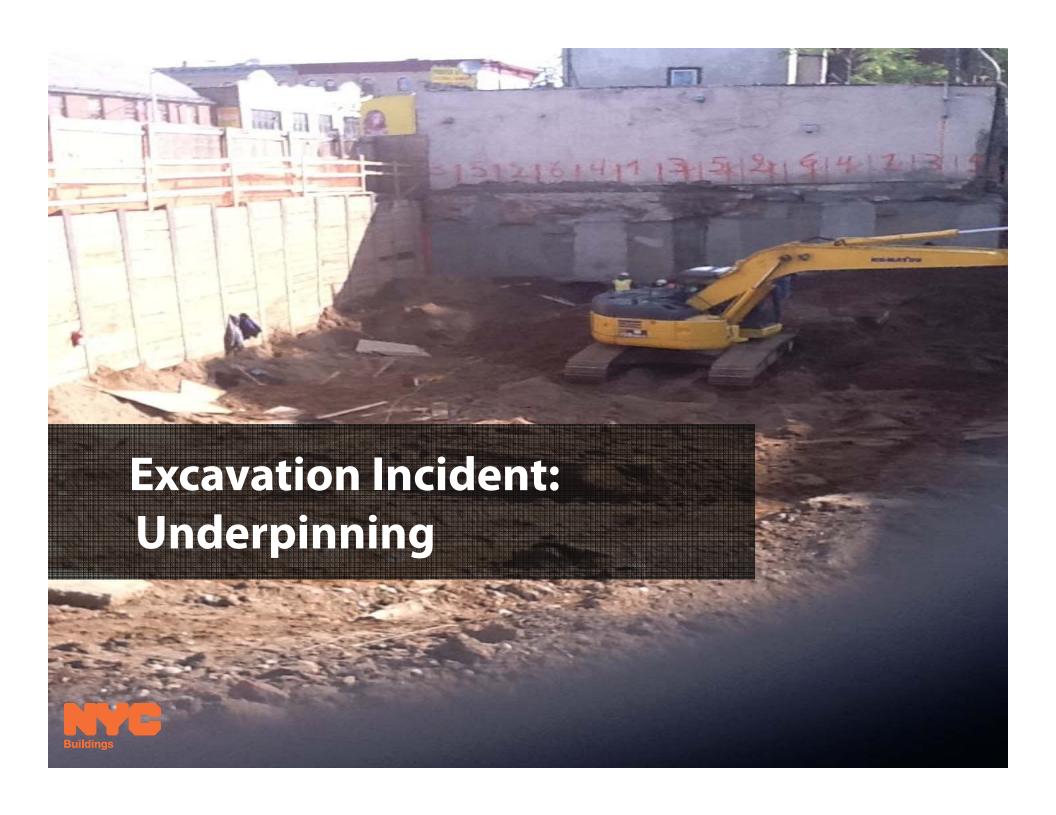




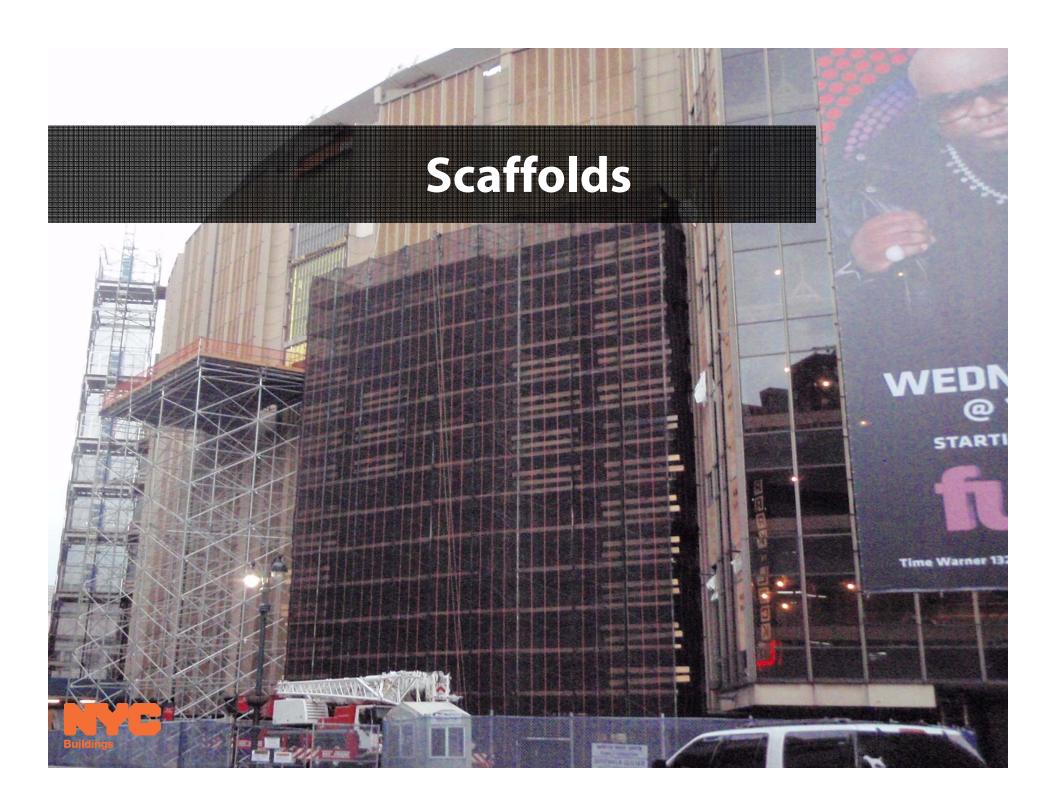












Scope of Scaffold Work In 2011

Suspended Scaffold Notifications: 10,234

Sidewalk Shed Permits: 5,700

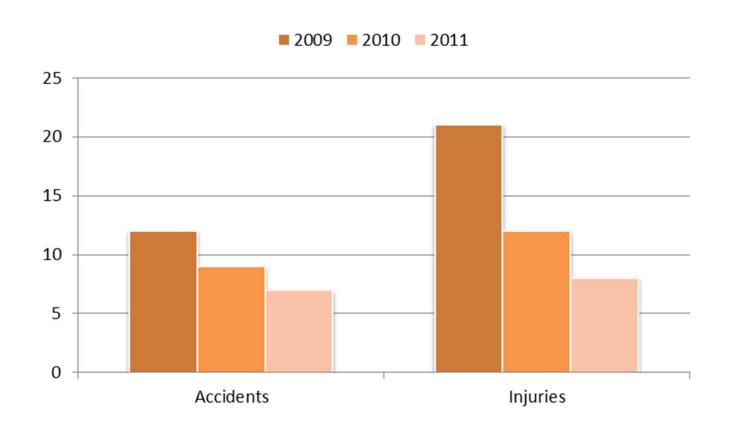
Supported Scaffold Permits: 2,480

Scaffold Related Complaints: 1,707

Scaffold Unit Inspections Performed: 6,908



Scaffolds/Shed/Shoring Installation Accidents





Common Sidewalk Shed Safety Issues

No Lights / Defective Lights BC 3307.6.5

Defective Mud Sills BC 3314.6

Out of Plumb Vertical Members BC 3307.6.4.3

Loose / Missing Cross Braces BC 3307.6.4.2

Deck Enclosure Loose BC 3307.6.4.6



Responsible Parties

Permit Holder/Erector/Contractor BC 3301.2

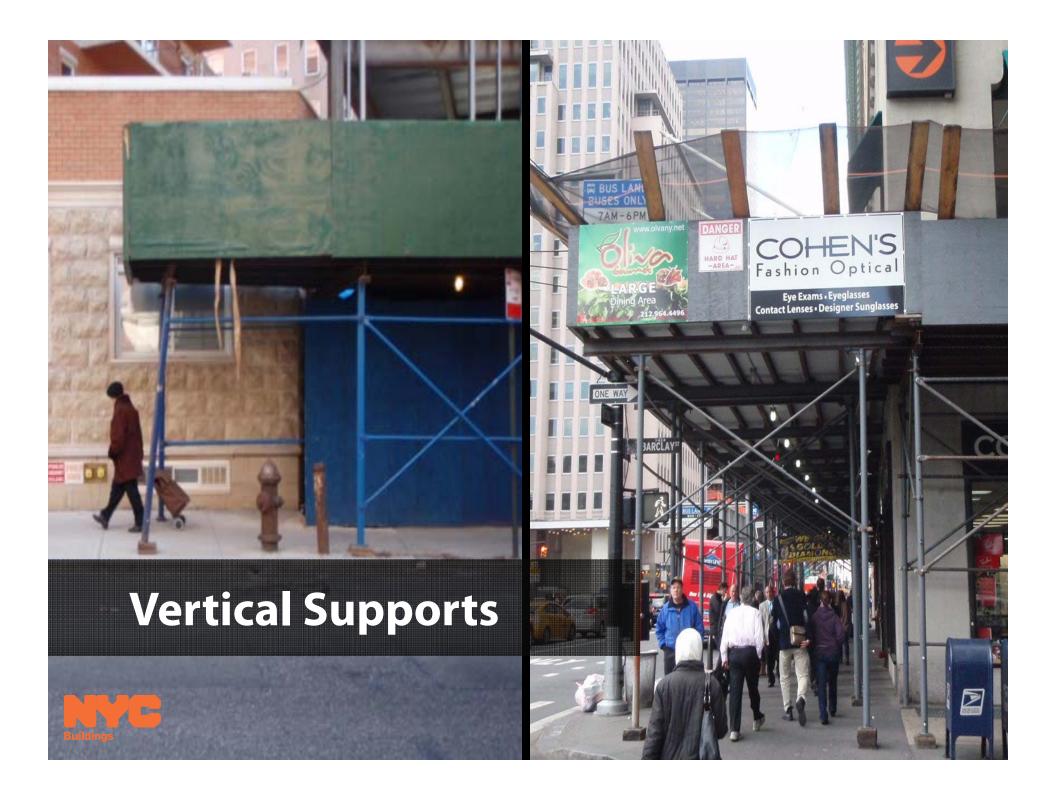
Site Safety Manager BC 3301.3

Construction Superintendent BC 3301.3, RCNY 48-02













Common Supported Scaffold Safety Issues

Improper Support/Working Deck BC 3314.5

Excessive Planking Overhang

BC 3314-5-3, 3314-5-4-2

Scaffold Screw Adjustment Improper BC 3314.6

Improper Foundation BC 3314.6

Inadequate Tieback BC 3314.6

Improper / Missing Guardrails BC 3314.8

Defective / Missing Debris Netting BC 3314.8.1



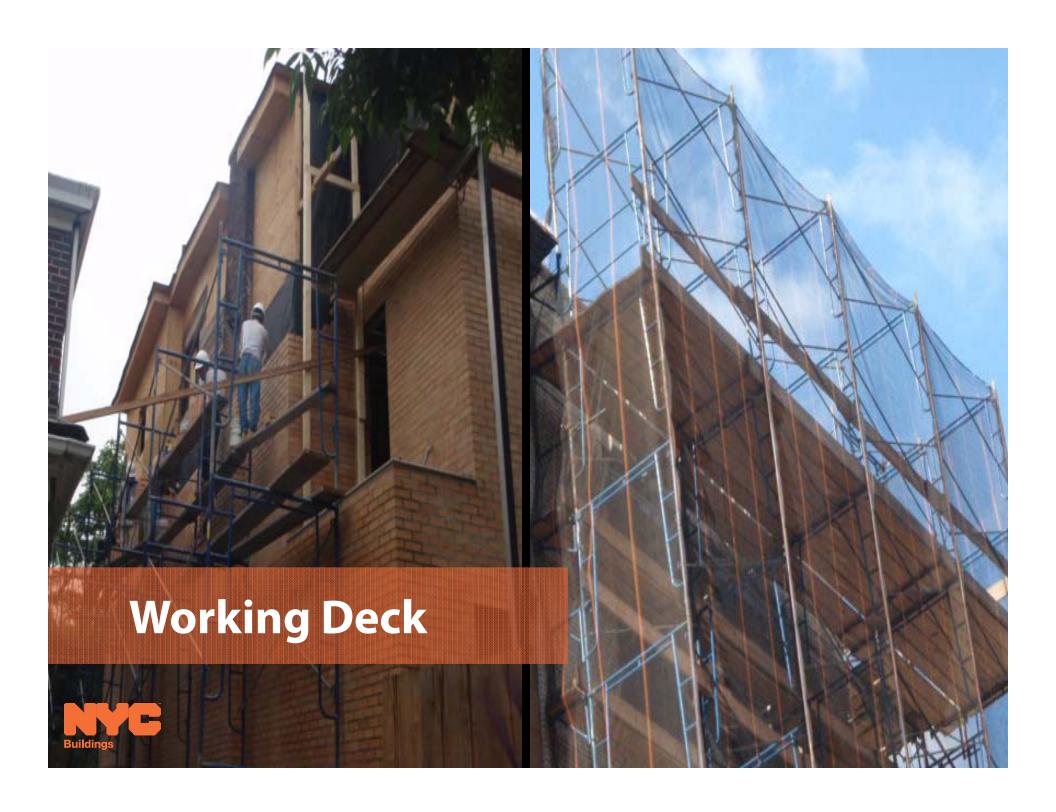
Responsible Parties

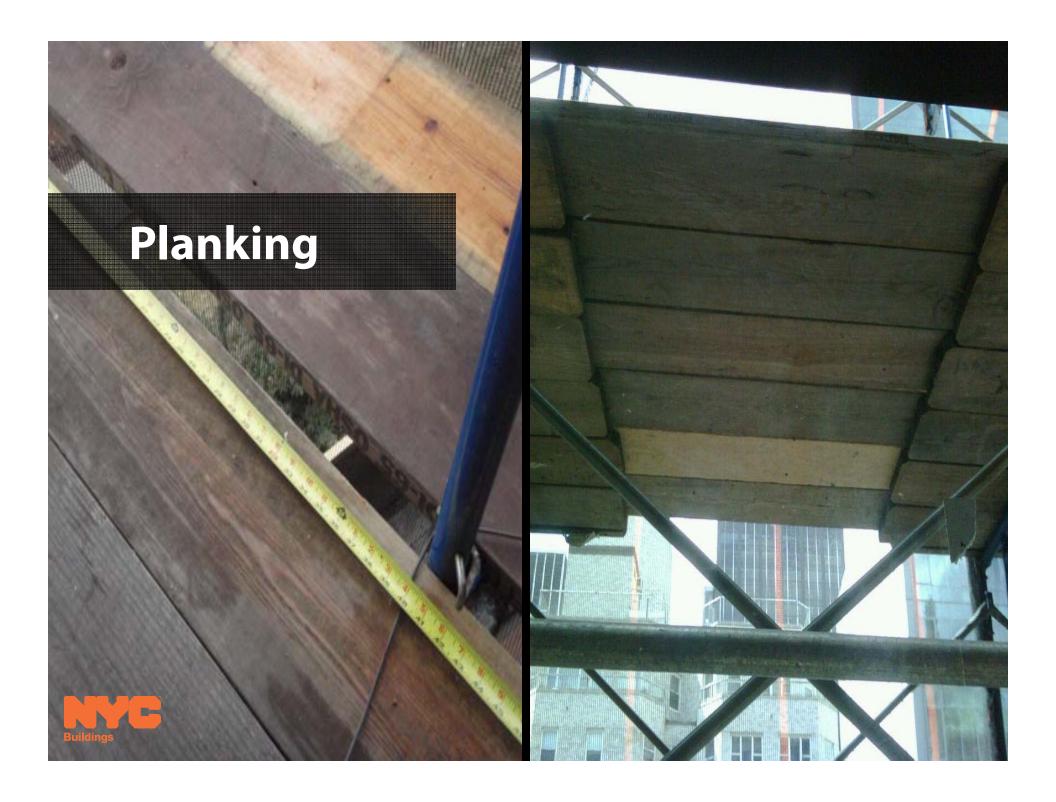
Permit Holder/Erector/Contractor BC 3301.2

Site Safety Manager BC 3301.3

Construction Superintendent BC 3301.3, RCNY 48-02

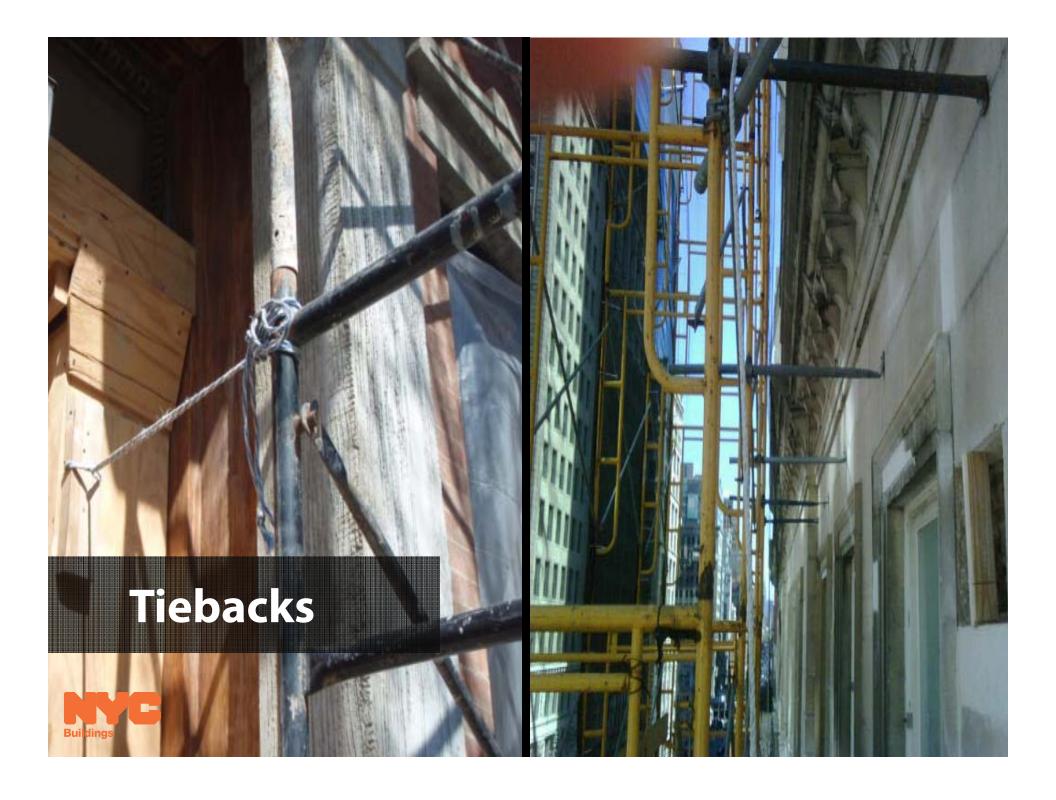
















Common Suspended Scaffold Safety Issues

No Harness / Life Line BC 3314.6.2

Improper C-Hook Tieback BC 3314.6.1

Defective Wire Rope BC 3314.11.6, 3314.11.6.2

Inappropriate Counterweight BC 3314.10.6, 3314.10.7

Defective Outrigger Beam BC 3314.7

Defective Support / Parapet BC 3314.10.2



Responsible Parties

Rigger/Designated Foreman BC 3314.4.3.1

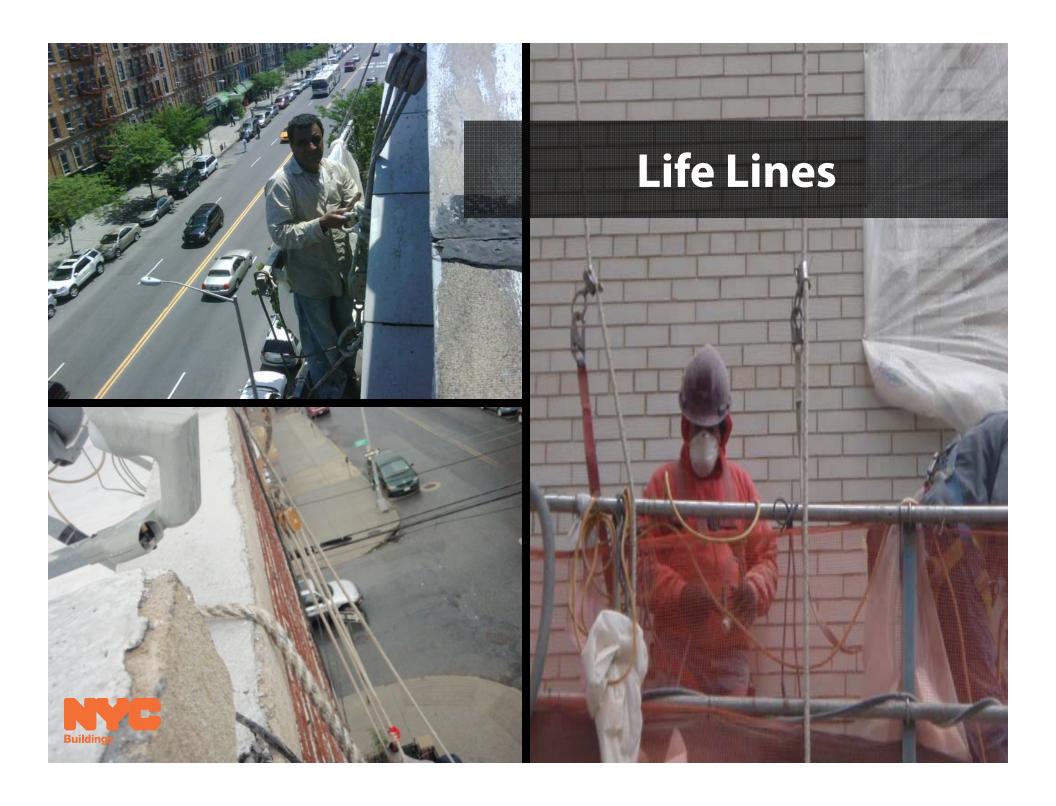
Permit Holder/Contractor BC 3301.2

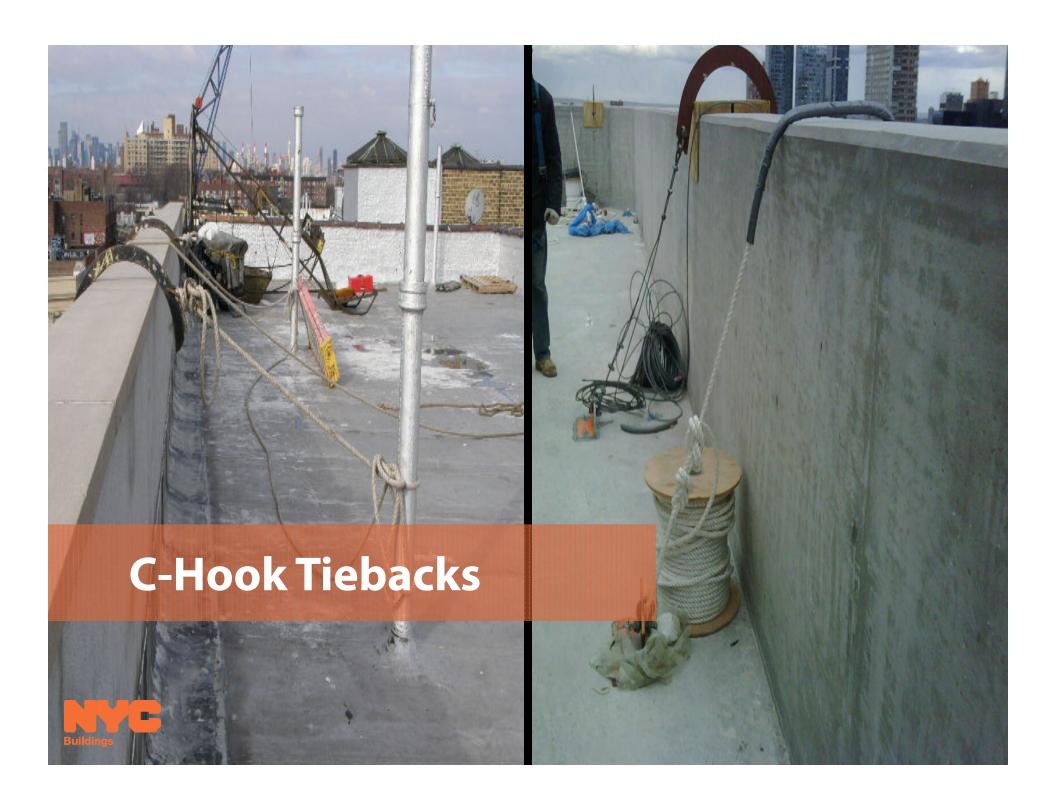
Site Safety Manager BC 3301.3

Construction Superintendent BC 3301.3, RCNY 48-02

Design Professional BC 3301.7, 1604.1 and 28-104.7.1

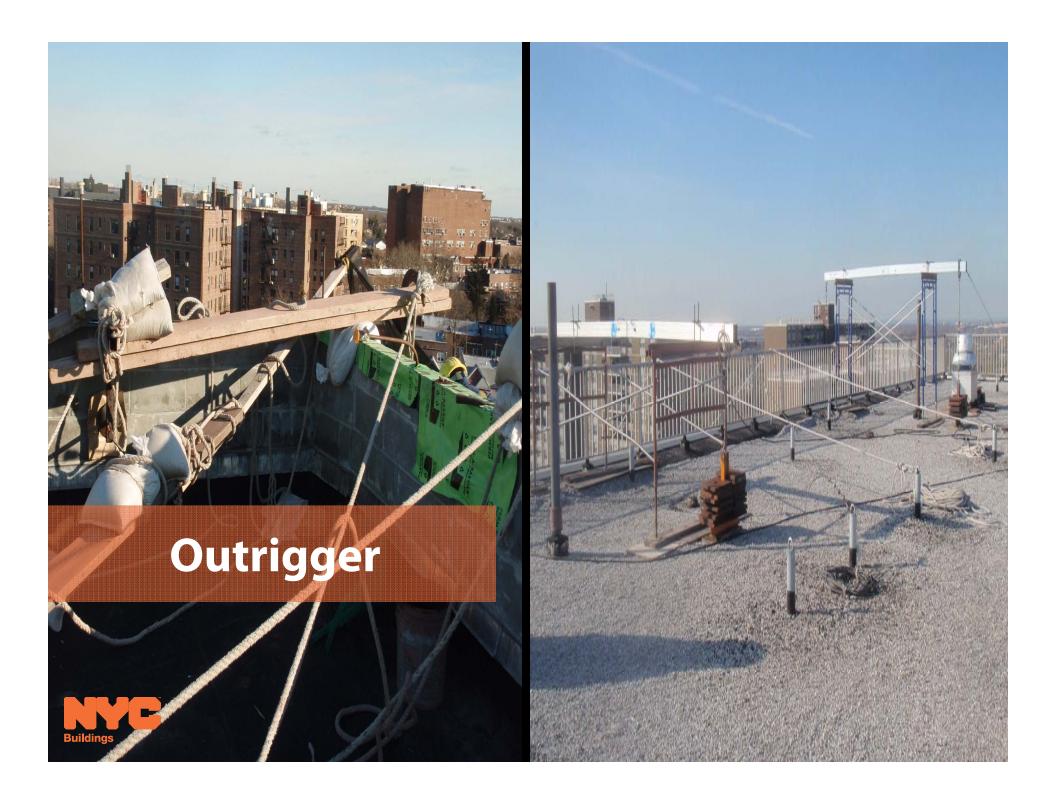






















Program Criteria

- Large Scope of Work
 - Square footage, height, cost, etc.
- Safety Challenges
 - Location of work (congested areas of city)
 - Nature of work (high risk construction operation, demolition, excavation, scaffolding)
 - Work Ongoing During Occupancy/High Occupancy Load
- Coordination
 - Involves Multiple Agencies or Governing Entities (City, State, Federal)



Program Goals

- Promote Innovation
 - Use of BIM Technology in Preparation of Site Safety Plans
- Share Information
 - Collaborative vs. Adversarial Relationship
 - Expectations Communicated Clearly/No Surprises
 - Open Exchange of Information Between Contractors, Applicants, and DOB – Increased Transparency
 - Lessons Learned Channeled Into Future Projects
- Enforce Expectations
 - Enhanced Inspection Program/Joint Inspection



Program Features

Pre-Planning Meetings: Encourages Thorough Planning by GC, Development of Enhanced Site Safety Plans, and Application Filing Strategy—Keys to Safety

Bi-weekly Industry Meetings Throughout Project Life: Proactive Resolution of Issues Before They Become Problems, Reduce Work Stoppages

Cyclical Joint Inspections, Coordinated with DOB Stakeholders: Helps Avoid Duplication of Effort

Single Point of Contact at DOB: DOB Services Managed by One Point Person, Mirroring Industry Practice, Avoids Conflicting Direction



MSG Renovation

Major Sports Arena/900 Million Dollar Renovation, 3 1/2 Year Duration

Compressed 24/7 Construction Schedule During "Dark Summers" (Out of Season)

Over 2000 Construction Workers/Peak Work Periods

Multi-Agency Coordination: MTA/Metro North/FDNY/DEP/DOT

Occupied During Construction (In Season)

Work Taking Place Above Major Commuter Hub (MTA/Metro North, Penn Station)

Over 100 Active Work Permits



MSG Renovation (cont.)

Mechanical, Structural, Life Safety Upgrades

Replacement of all Escalators

Egress Impairment/Reconfiguration

SD/SP/FA Impairment/Reconfiguration

Large Structural Steel and Concrete Demolition Component

Significant Temporary Steel Shoring in Support of Demo Operations

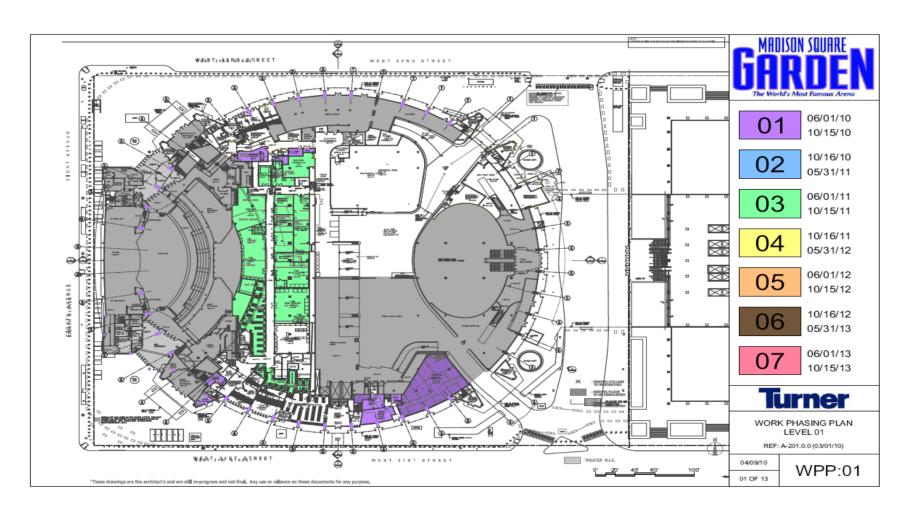
Multiple Indoor Crane Operations on Arena Ice Floor

Indoor Air Quality Control Issues Due To Mechanical Equipment Use

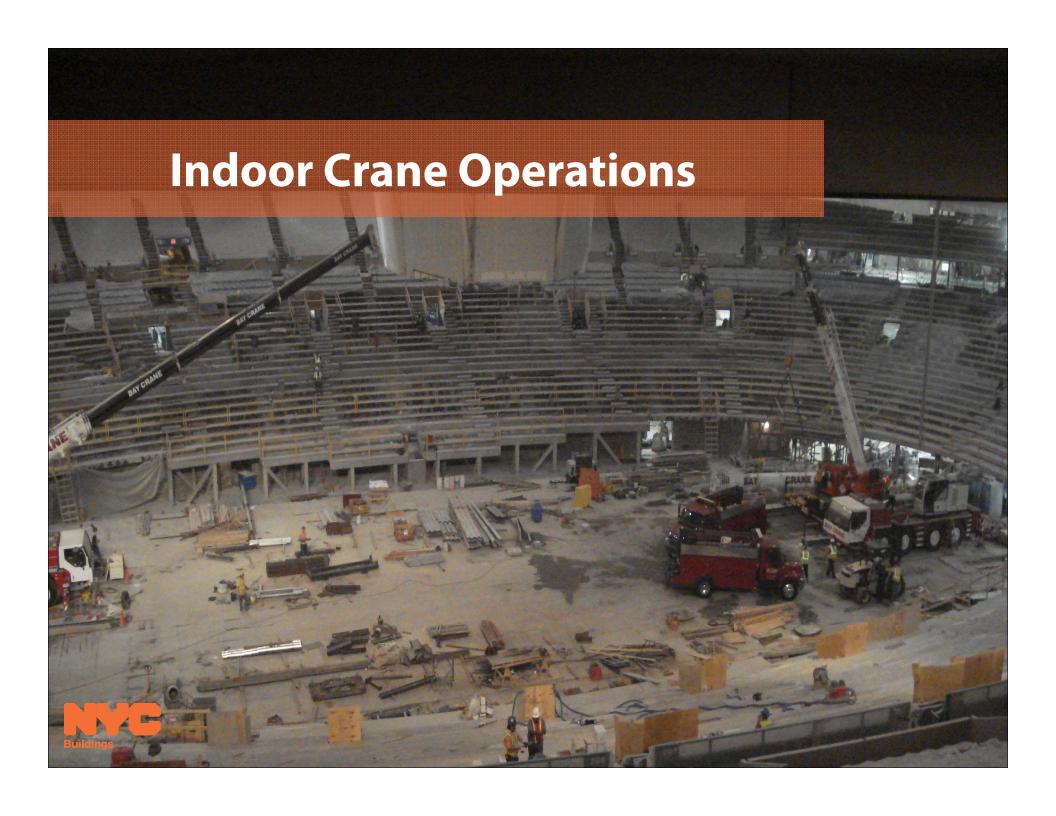
ATRU Asbestos Abatement

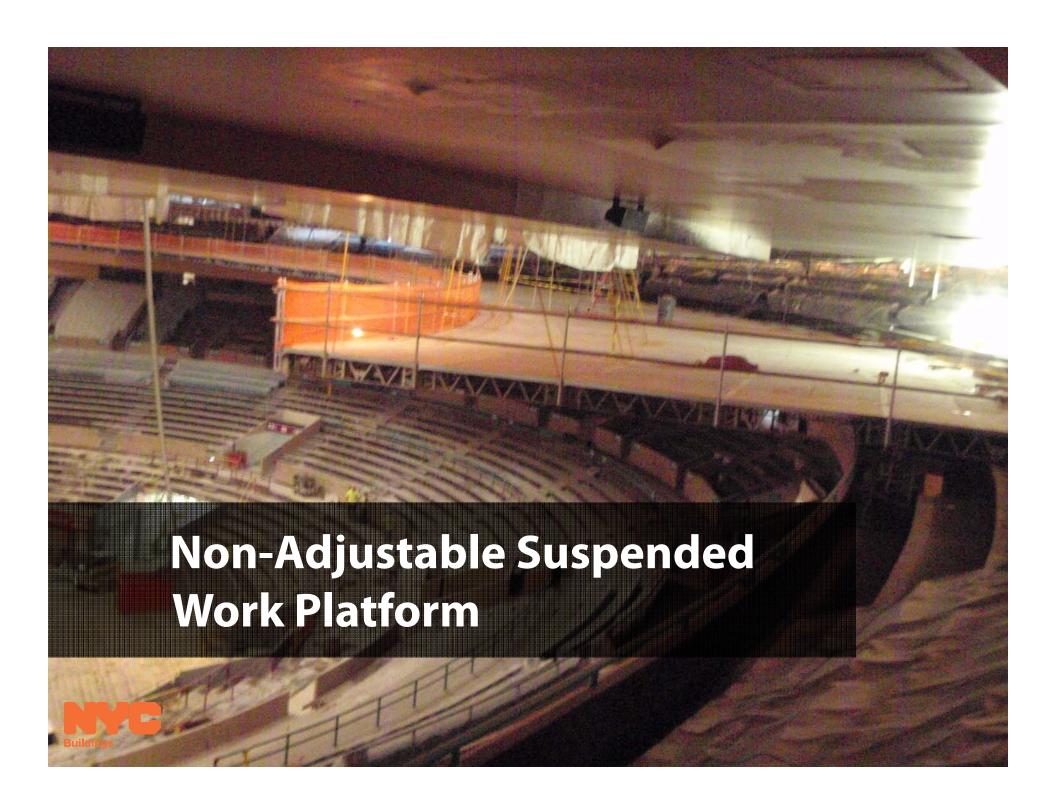


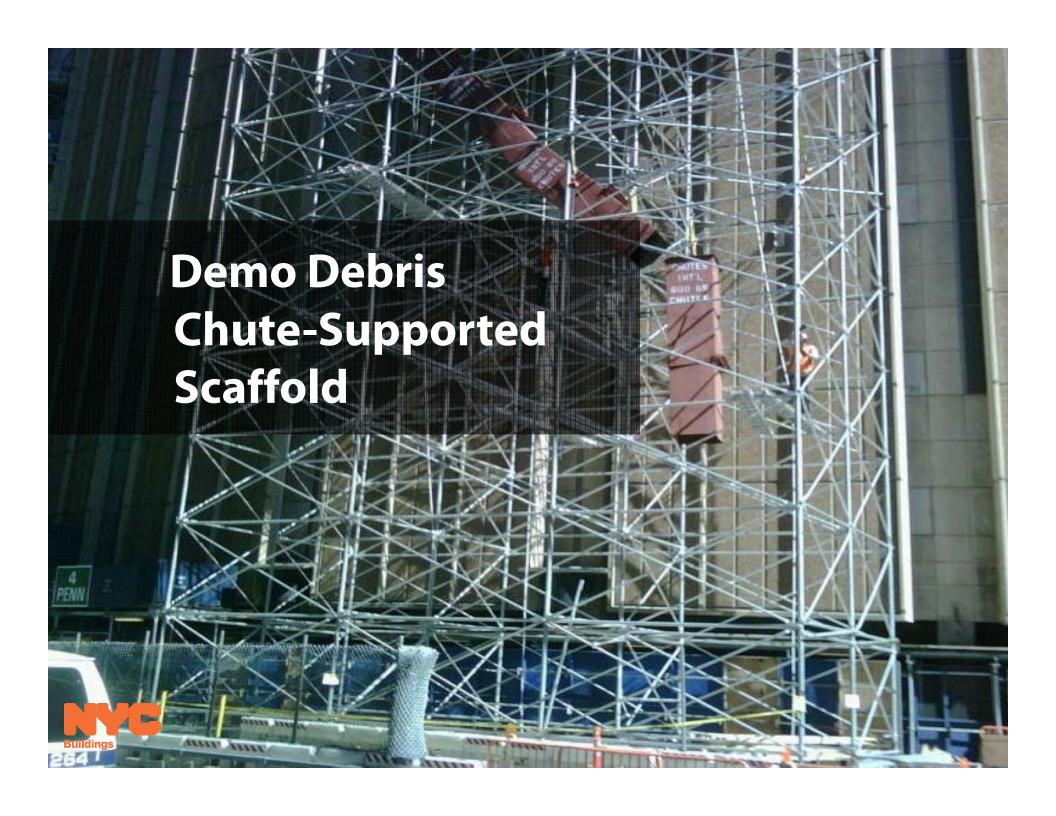
Enhance Site Safety Planning





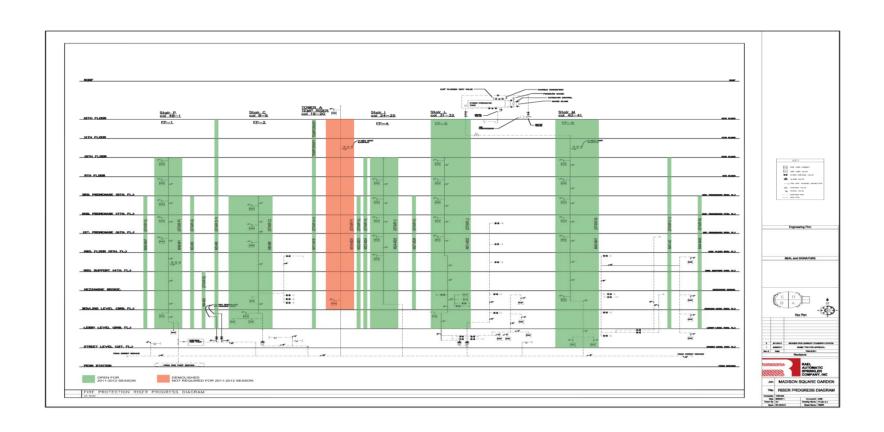








Standpipe and Exit Stair Riser Plan





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Questions?

