

## SAFETY SUMMIT 2025

Eric Adams Mayor Thomas Foley, P.E. Commissioner



## AGENDA

- Opening Remarks
- Safety Performance Data
- Damage Prevention Technologies
- Contractors' Perspective on Safety
- Contractor Safety Performance Evaluation
- Safety Regulatory Updates
- Environmental Compliance
- Q&A





## **Opening Remarks**

## Safety Performance Data





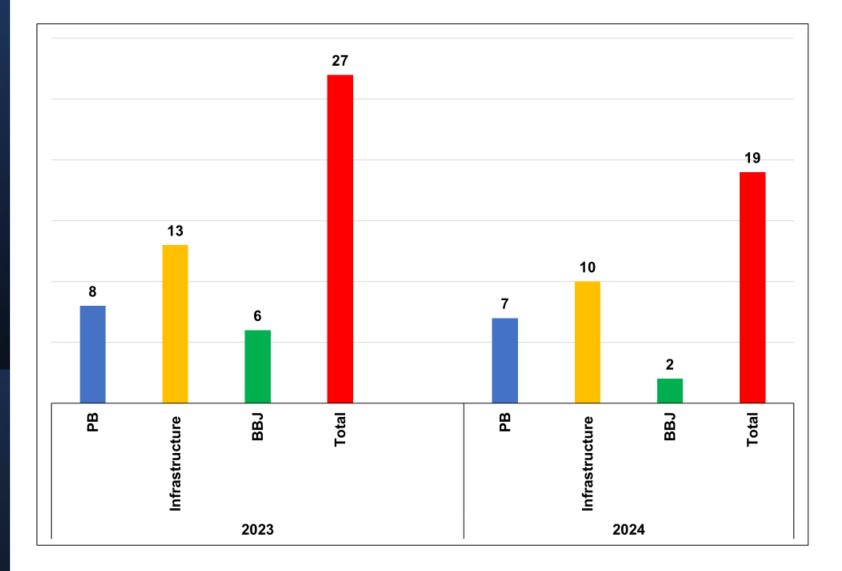


- Construction is still the deadliest occupation in the U.S., according to new federal labor data, and its fatalities are rising while other workplaces have gotten safer.
- In 2023, the BLS reported a total of 1,075 construction related deaths an increase from 1,069 in 2022.

## Industry Data

- Construction work considered most lethal of the occupations, for the second year running. Almost 40% of deaths were due to **slips, trips and falls**.
- Number 1 cited OSHA standard in 2024 Fall Protection General Requirements 1926.501 - 14th consecutive year!

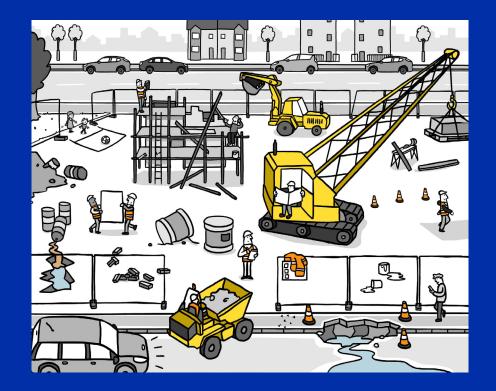
#### DDC Construction Accidents 2023 vs 2024 Calendar Years





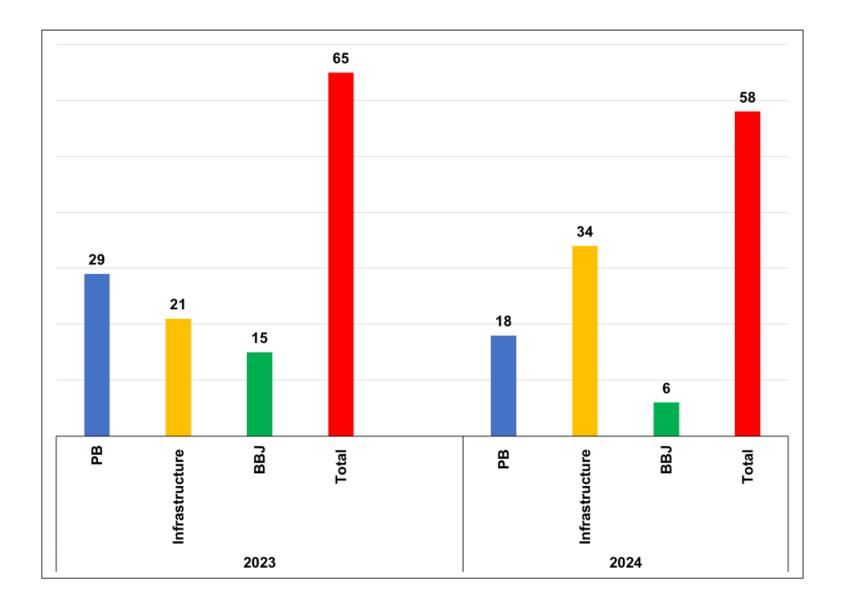
## Frequent Accident Categories - DDC Projects

- Struck-by
- Caught-in-Between
- Tools & Equipment
- Sprains & Strains





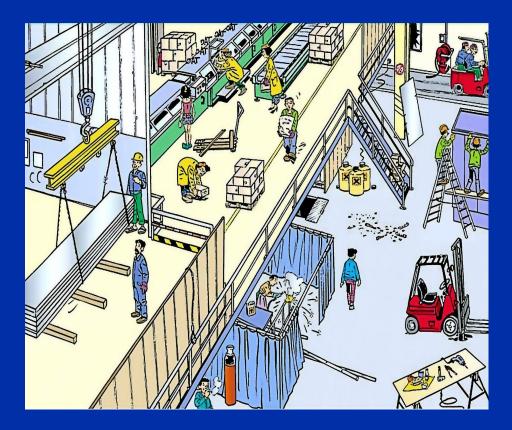
#### DDC Incidents (Minor Injuries) 2023 vs 2024 Calendar Years





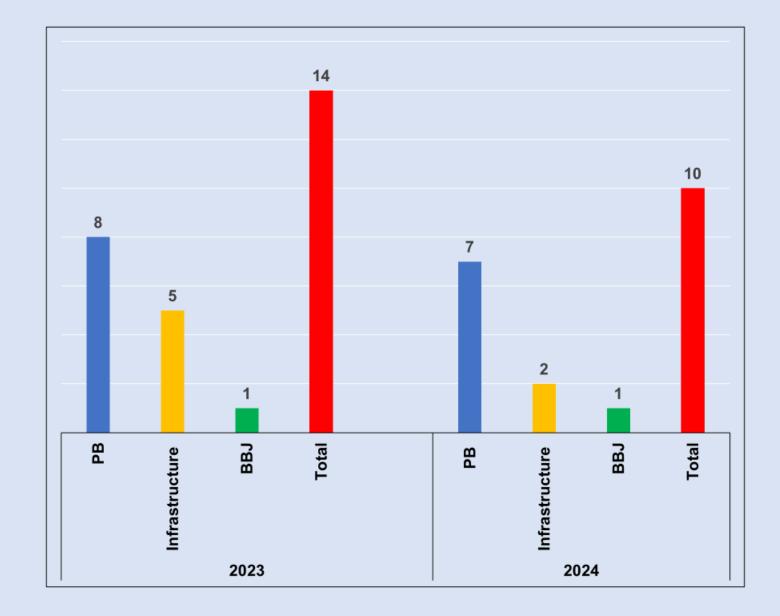
## Top Incident (Minor Injuries) Categories

- Slips and Trips (Housekeeping)
- Tools
- Struck By





#### DDC Stop Work Orders 2023 vs 2024 Calendar Years



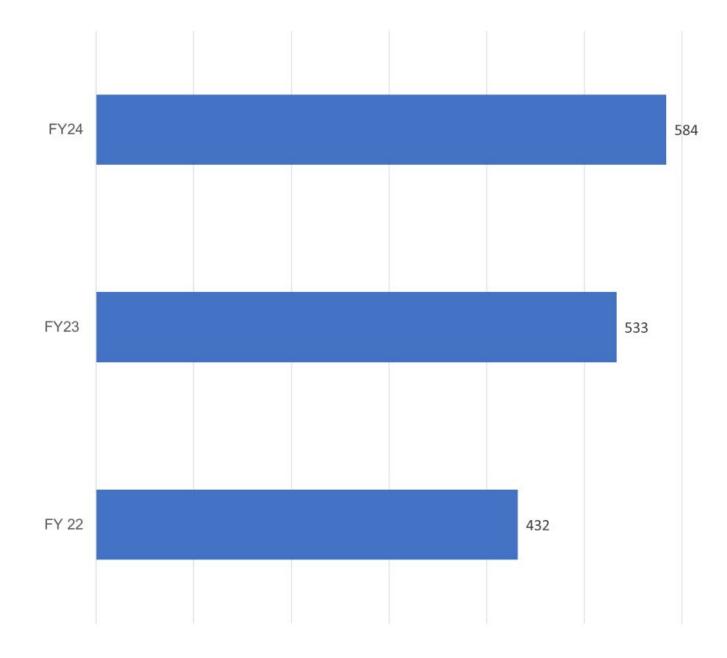


## SWOs by Category – 2023 vs 2024



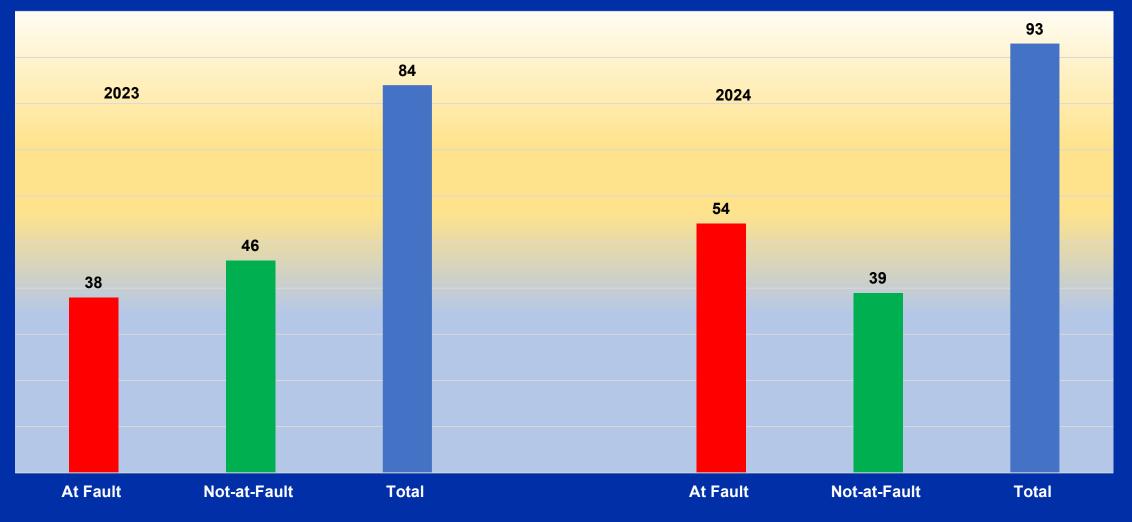


## Site Safety Plan Reviews



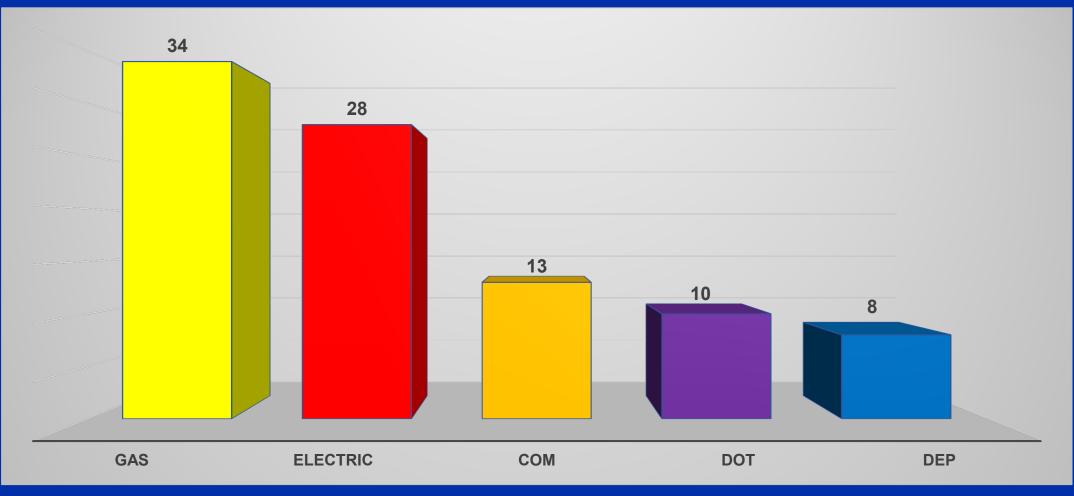


## Utility Damages





## Damage by Affected Utility 2024





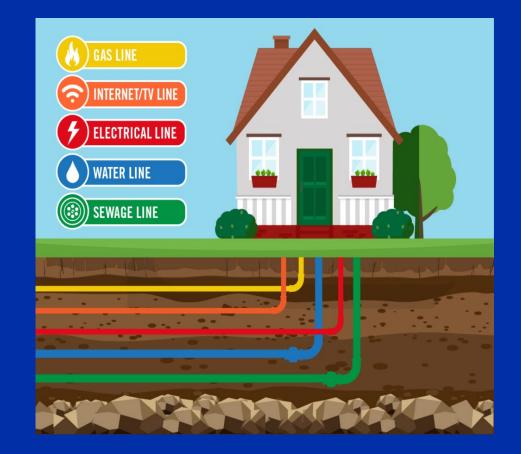






## **Steps to Prevent Utility Damages**

- Always call before you dig 811 It's the LAW and it's FREE.
- Wait the required timeframe & get positive response from utility operators.
- Respect and maintain the marks <u>NO</u> powered or mechanized equipment within the Tolerance Zone.
- Provide a spotter for subsurface and overhead utilities.
- Support and protect exposed utilities within the excavation.
- NY 811 Excavator Training & Education Program (operator).
- Request assistance from utility representative.





## **Damage Prevention**





## **Damage Prevention**

Best Practices New Technology

#### national**grid**

Robert Terjesen Robert Arndt



# 

You might not know the area as well as you think! Even if you've excavated an area previously, erosion, settling ground and other factors can change the depth and location of utilities over time. ALWAYS contact 811 before putting your shovel to the ground!



**Contact 811 before you dig.** 

811 beforeyoudig.com

## \$30 billion

That's the annual societal cost of damages to underground infrastructure. It's equal to half the Housing and Urban Development budget, and double the annual U.S. law enforcement operations budget.



#### **Gas Distribution System Damage – Potential Impact**

#### **Incident Responders**

Emergency Services (Fire/Police): Command of scene, traffic control, evacuations, fire suppression.

Gas Company: Isolate system, assess and repair facility.

Locator: Complete emergency locate for critical repair work.

State Enforcement Agency: Conducts investigation of incident.

Immediate Impact	Ongoing Impa	
Incident Site and Surrounding Area	Restoration	
Excavator on site suspends work.	Roads: May requi to roadway requir	
Buildings evacuated and business interrupted.	Pedestrian Traffic	
Injuries and property damage.	for handicap usage needed.	
Gas vents to atmosphere until controlled.	Landscaping: Ong shrubs, grasses an	
Potential damage to other facilities during repair.	Gas Service: Gas c	
Gas service interrupted.	to all affected bui	
• · · ·	Additional Costs /	
Community Traffic and pedestrian detours and delays.	Roadway repairs a impacted adding t	
Emergency services pulled from other duties.	Repair bills from g fault).	
Municipal staff pulled from other duties.	Enforcement actio	
Gas company pulled away from routine jobs.	Civil lawsuits for ir	
Locator drops planned route delaying other excavators.	Insurance claims.	

#### ict

uire weeks to make permanent repair ring ongoing detours and disruption.

c: Temporary fix may not be suitable ge. Pedestrian detour could be

going repair and restoration of trees, nd irrigation.

company employees require access ildings to restore service.

/ Enforcement

and service life of the roadway are to taxpayer costs.

gas company to excavator (if at

on by regulatory agency.

injuries and property damage.

DIRT Report for 2020 Common Ground Alliance

#### national**grid** Safe Digging Best Practice Guidance

#### nationalgrid

#### Practices for emergency excavation



Not every dig job grants you the luxury of waiting your state's required time for utility lines to be marked. Certain excavation jobs require immediate action to address a compromising event. Determining whether the event warrants an emergency excavation and coordinating with your state 811 center are the first steps toward keeping yourself and the public safe as well as protecting property and facilities.

#### What warrants an emergency excavation?

According to the Common Ground Alliance, an emergency excavation "includes situations that involve danger to life, health, or property or that require immediate correction in order to continue the operation of or ensure the continuity of public utility service or public transportation." Examples include:

- Water main breaks
- · Water or cable outages of essential buildings
- · Breaches of livestock fences

#### How to approach an emergency excavation



If you must proceed before utility lines are located, use extreme caution to prevent damage to underground facilities and to avoid endangering people and property while working the emergency.



Do NOT proceed without a locate if the job is not a true emergency, such as planting landscape or rushing a late project. Violations will subject you to civil penalties.

Follow these tips for coordinating your emergency excavation with your state 811 center:

#### In New York:

- Proceed without prior notification to New York 811 or UDig NY if the excavation or demolition can not be reasonably delayed.
- As soon as possible, notify the 811 center about the emergency excavation in progress. Always
  contact your state 811 center before digging and for the most current requirements.

#### nationalgrid

#### **New York Safe Excavation Checklist**

Use this checklist as your step-by-step guide to help prevent dangerous and costly damage to underground natural gas pipelines and other utilities.

Always contact your state 811 center before digging and for current requirements.

- 1. State law requires calling 811 or making an online request for utility locates at least two full working days before any excavation, excluding the date of your call, weekends and legal holidays. At no cost to you, the 811 center will notify member underground facility owners to mark buried pipelines and other facilities in your dig area. Allow more time for large projects.
  - Upstate New York: Call 811 or 1-800-962-7962 | UDigNY.org
  - Downstate New York Brooklyn, Queens, Staten Island, Long Island and the Rockaways: Call 811 or 1-800-272-4480 | newyork-811.com
- 2. Notify facility owners who are not 811 center members about your excavation and request locates directly from them. (Oil and gas production and gathering pipeline systems used primarily to collect oil or gas from wells are not required to join the New York 811 centers.)
- **3.** Pre-mark your dig area with white paint, flags and/or stakes, so locators can more easily identify utilities to be marked. Document your pre-marks with photos or video.
- 4. Keep your ticket number and compliance documentation handy at the job site.
- 5. If digging in New York City and its five boroughs: The NYC Department of Buildings (DOB) requires you to provide your 811 ticket number when making normal notification of the commencement of earthwork. The ticket must address all street frontages associated with the excavation, and all documents related to the notification must be kept on-site and available upon request. To complete the DOB earthwork notification, call 1-212-393-2550.
- 6. If your 811 locate indicates you will be working within 15 feet of a high-pressure natural gas transmission pipeline or other critical utility: Prior to digging, you must attend an on-site meeting and/or have contact with qualified National Grid representatives. National Grid MUST be on-site during the excavation.
- 7. Expect responses from all facility operators confirming utility presence or absence in your work area. UDig NY will send you one email where you can confirm the status of all member utilities' responses. New York 811 will provide all operators' responses for you to check at managetickets.com or by phone. Document the responses. If no response, do not dig; call 811.

#### **Excavator Beware**

Dig safely around natural gas lines

Whether you operate heavy equipment or use handheld tools, when you dig, you risk contacting natural gas pipelines. Use these tips to stay safe:

- Notify 811 well in advance of digging or moving earth in any way - even for small jobs.
- Respect the locate marks and follow them when digging.
- Dig with care in the vicinity of underground natural gas pipelines.
- If you find an unmarked or mismarked line, stop digging and notify 811.
- · Report any suspicious activity near a natural gas pipeline marker.
- Don't rely on your nose alone. Be alert for the many warning signs of a natural gas leak.
- Know what to do if your equipment contacts a natural gas pipeline.

#### To report a gas emergency, **call 911** and National Grid immediately.

Massachusetts 911 and 1-800-233-5325

#### New York

 $(\Delta)$ 

Long Island and the Rockaways: 911 and 1-800-490-0045 Metro New York: 911 and 1-718-643-4050 Upstate New York: 911 and 1-800-892-2345



Enroll in our online excavator safety course today at ngridsafety.com/ utility-safety-course.



nationalgrid 🗙 🗗 🙆 🕨



811 before you dig.

#### nationalgrid

#### Excavator safety near underground natural gas pipelines

Use this poster for employee training.



Smell Gas. Act Fast. Be the one to call 911. In a gas emergency, call 911 and National Grid 24 hours a day, 7 days a week. Brooklyn, Queens and Staten Island: 911 and 1-718-643-4050 Nassau, Suffolk and the Rockaways: 911 and 1-800-490-0045

### Always **call 911** if you suspect a gas leak!

For excavator safety tips, tools and videos, visit ngridsafety.com.





Before you notify New York 811, pre-mark your proposed dig area with white paint, flags and/or stakes.

- Help prevent gas pipeline damage.
- National Grid pipelines deliver natural gas safely and reliably to homes and businesses across New York and Massachusetts. We regularly inspect these pipelines for corrosion and defects, monitor for leaks and conduct routine maintenance.
- Hitting a natural gas pipeline has serious consequences. Even a tiny gouge, scrape, dent or crease to a gas pipe or its coating may cause a leak that could lead to a catastrophic fire or explosion.
- The greatest risk to gas pipelines is accidental damage during excavation. We need your help to prevent pipeline damage and reduce the risk of dangerous natural gas leaks.

#### Notify 811, even if you think you know where lines are buried. It's the law!

- State law requires you to call New York 811 or make an online request at least two full working days before any excavation starts, excluding the date of your request, weekends and legal holidays. Even small or shallow jobs require this.
- The FREE 811 service will arrange for marking of buried natural gas lines and other utilities so that you can work a safe distance away from them.
- Call 811 or 1-800-272-4480 | NewYork-811.com.
- Wait the required time for utilities to locate and mark their lines before you dig. Never assume ANY area is free of underground utility lines.

Always contact your state 811 center before digging and for the most current requirements.

- Physically locate marked natural gas pipelines by hand digging, or potholing. If you cannot locate marked pipelines, STOP digging and contact National Grid immediately.
- Do not use mechanical excavation equipment within the "tolerance zone," which spans the width of a marked utility plus 24 inches from each indicated outside edge. Use ONLY hand tools or vacuum technology within this safety zone.
- If your excavation will cross a cast iron gas main or run parallel nearby, notify the 811 service and National Grid well in advance. Cast iron gas mains in our Northeast communities may be damaged when the earth near them is moved in any way.

#### national**grid** Utility Safety Course

## Dig smart, dig safe.

Master essential safety skills by enrolling in our FREE online excavator safety course today at **ngridsafety.com/ utility-safety-course**.



Know what's **below. 811** before you dig.





New York State Excavation Certification Training



About Us 🗸 Membership 🗸 The Law 🗸 Training & Education 🗸 Homeowners 🗸 Excavators 🗸



### MANDATORY LAW CHANGE (Senate Bill S.6756 and Assembly Bill 9985)

On November 5, 2018, New York State Governor Andrew Cuomo signed Senate Bill S.6756 and Assembly Bill 9985 into Law with the intent to greatly reduce the number of excavation related accidents thereby providing greater public safety and protection. The amendment to NYS Code Rule 753 will require any municipality or operator that engages in excavation work to require its excavators to complete a training and education program from their local One Call Notification Center. Learn more about the law change here.

Under this newly enacted law, receiving New York 811 Excavator Training & Education Program will constitute compliance with the law. This training will be available at no cost to the excavator or organization. Online training will be available December 1, 2018 at no cost to the participant. *This new law went into effect on May 4, 2019*.

To request on site training, please contact New York 811 at 631-778-8111 or email: email@ny811inc.com



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811 Ticket Submission Process Improvement

## Make the 811 system better Wor 0

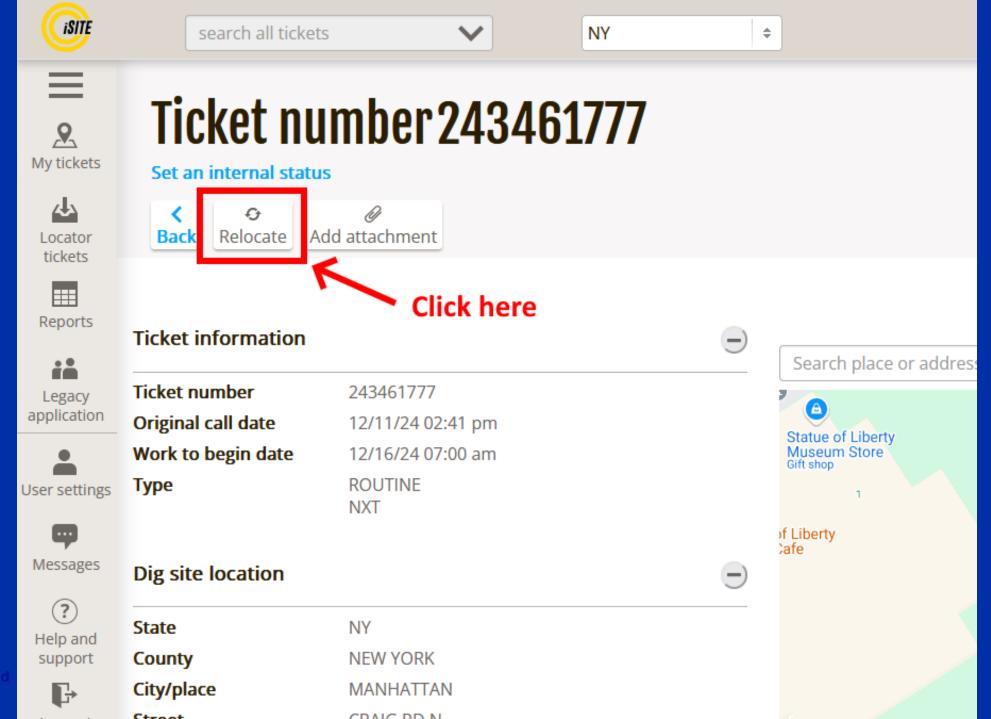
Want timelier locates at your jobsites? Use the 811 system more efficiently to help reduce locator workload. Limit the size and frequency of your 811 ticket requests, and avoid making "just in case" requests so locators can get to your active jobsites on time.



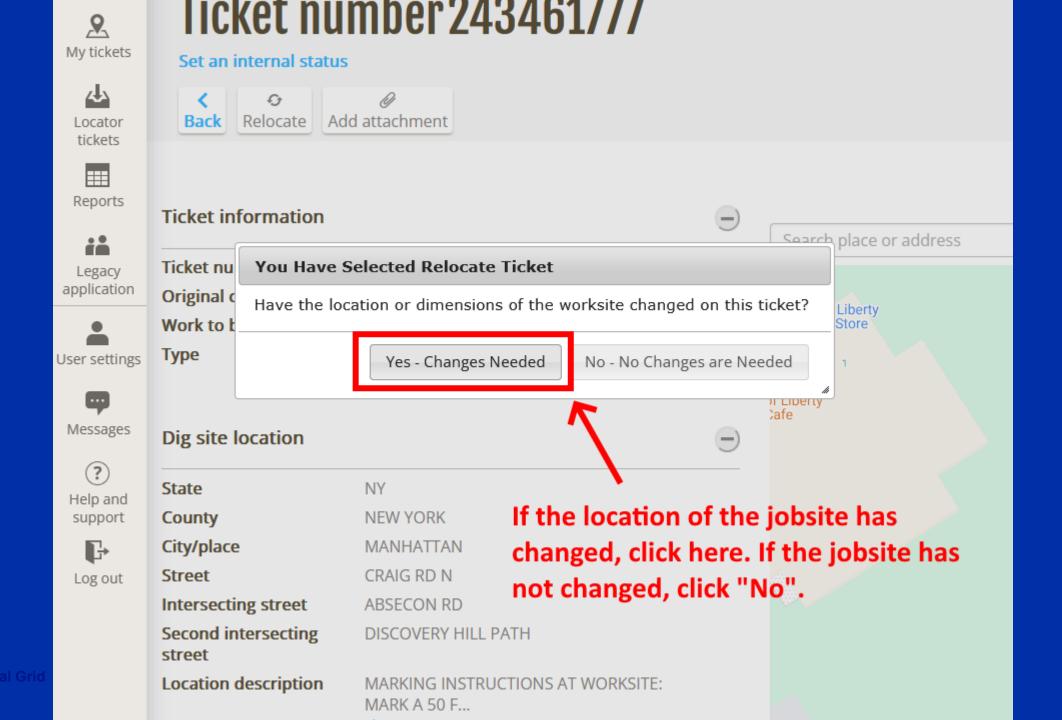
Learn how at 811beforeyoudig.com.

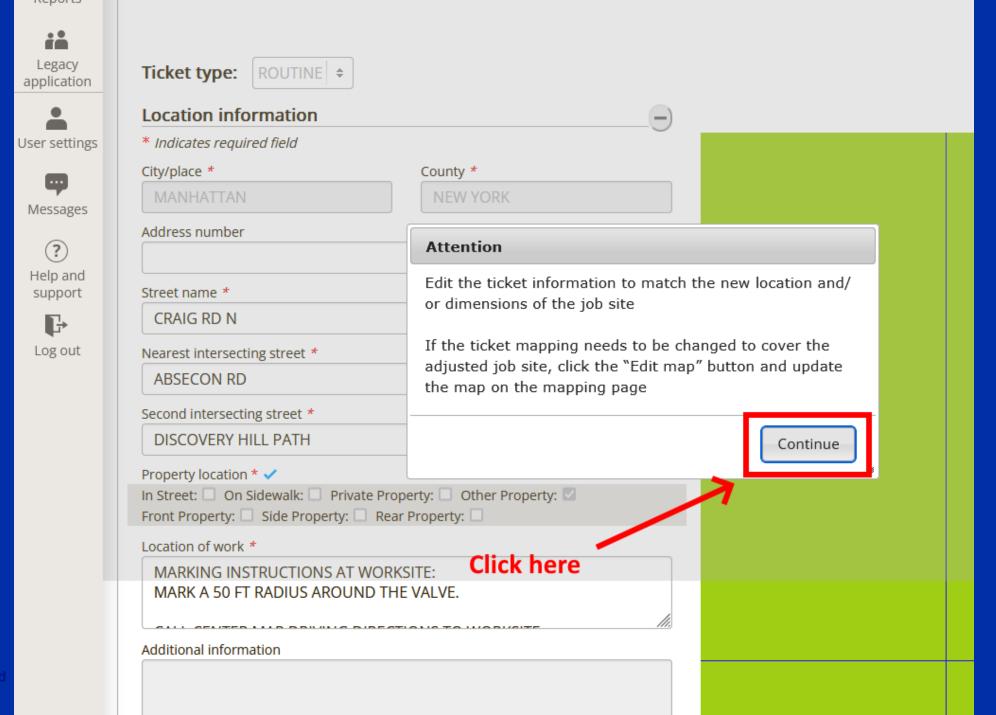
<b>ISITE</b>	search all tickets	$\sim$	NY ÷	
My tickets	My Tickets All released(63) Expiring/ex		\$	
Locator tickets	Released between		Phone	
Reports		/23/25	Numbers \$ Apply	Search by ticket #
Legacy application	I want to	Release date/time	Address/street	City/place
User settings	□ 250231156 ►	01/23/25 11:59 am	420 ALBANY AVE	NORTH AMITYVILLE
<b>P</b>	250231153	01/23/25 11:58 am	DOROTHY ST	BELLMORE
Messages	🗆 250231131 🖑	01/23/25 11:58 am	DOROTHY ST	BELLMORE
?	🗖 250231106 🖑	01/23/25 11:59 am	420 ALBANY AVE	NORTH AMITYVILLE
Help and support	<b>250230186</b>	01/23/25 08:02 am	95-99 DUNLOP RD	HUNTINGTON
<b>F</b>	250221665	01/22/25 04:00 pm	SAMS PATH	ROCKY POINT

<b>A</b> My tickets	My Tickets NY + All released(12) Expiring/expired(0)							
Locator tickets Reports	Released between       10/01/24     Image: Constant of the second		ers + Apply Sea	rch by ticket #	0			
Legacy application		<b>here</b> Release date/time ♦	Address/street	City/place 🔶	County			
Jser settings	□ 243461777 □ 243310690 •	12/11/24 02:41 pm 11/26/24 10:15 am	CRAIG RD N WHITE PLAINS RD	MANHATTAN MANHATTAN	NEW YO			
Messages	□ 243201292 □ 243191592 •	11/15/24 03:20 pm 11/14/24 06:10 pm	WHITE PLAINS RD CRAIG RD N	MANHATTAN MANHATTAN	NEW YO			
Help and support		11/14/24 06:01 pm	MAIN ST	MANHATTAN	NEW YO			
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	<b>243052406</b>	10/31/24 05:24 pm	CRAIG RD N	MANHATTAN	NEW YOI			



National Gri





	Location information	
User settings	* Indicates required field	
	City/place * County *       MANHATTAN     NEW YORK	
(?)	Address number	
Help and support	Street name *	
G	CRAIG RD N	
Log out	Nearest intersecting street *	
	ABSECON RD	Edit the location information
	Second intersecting street *	that needs to be changed
	DISCOVERY HILL PATH	here
	Property location * 🗸	liele
	In Street:  On Sidewalk:  Private Property:  Other Property:  Front Property:  Side Property:  Rear Property:	
	Location of work *	
	MARKING INSTRUCTIONS AT WORKSITE: MARK A 50 FT RADIUS AROUND THE VALVE.	
	CALL CENTER MAP DRIVING DIRECTIONS TO WORKSITE: FROM THE INTERSECTION OF CRAIG RD N AND ABSECON RD, HEAD	
	SOUTH ON CRAIG RD N FOR 48 FT. HEAD WNW FOR 1.03 MILES TO THE VALVE.	
		Google
	Additional information	

# **New Technology**

**Urbint - Predictive Analytics** 





# Urbint + nationalgrid

Protecting workers, assets, communities, and the environment.

#### Damage Prevention Reduce Third Party

Damages



Reduced asset damages by **37%**  Worker Safety Prevent Serious Injuries and Fatalities



Increased hazard recognition by 56%

Storm Response Restore Power Faster Post-Weather Events



Secured all crews required for storm within **19 Minutes** 

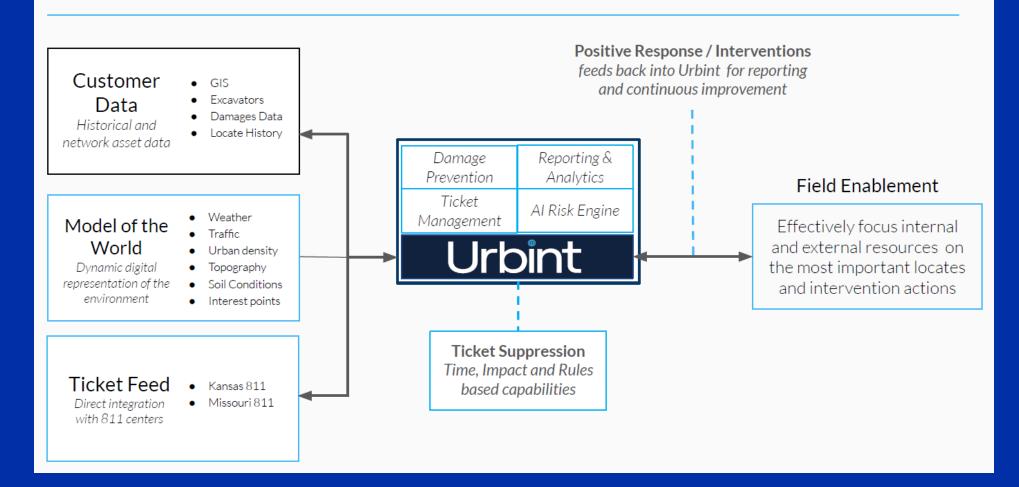
#### **Public Safety**

Improve Response to Public Hazards



Enhanced Situational awareness from **5,000** first responders

## How Urbint Works



# Risk Engine = Threat x Impact

Urbint uses a combination of machine learning and business logic to risk rank all tickets by Threat and Impact

#### Threat (Probability)

Likelihood of an excavation to result in a damage

Uses data including historical Ticket & Damage data.

#### Impact (Consequence)

Consequence of damage to high value assets

Uses data including GIS (asset) and Model of the World

#### **Transforming Damage Prevention**

In 2018, National Grid was experiencing a damage rate plateau and was under risk of heavy regulatory fines They needed to find a way to be more efficient in assessing and acting on the growing volume of 811 tickets.

Urbint and National Grid partnered to deploy an industry leading Al based solution to review and score every 811 for the Threat and Impact of a potential Damage.

National Grid transformed their intervention program by using Urbint to focus their limited resources to for the greatest possible impact.

"Urbint has delivered tremendous value to our gas operations business in the U.S. Their use of AI technology has enhanced our ability to flag incidents and excavators with increased foresight and precision, thus helping our customers stay safe."

Damage reduction 22% experience after year 1 Reduction in damages 60% from large excavators Likelihood of a damage 16x on a Very High risk ticker over baseline Total damage rate 37% reduction over the life of the program

# **New Technology**

Locate Enhancements lytic

Locate Enhancements



nationalgrid

#### **QUALITY, PERFORMANCE & DAMAGE REDUCTION**



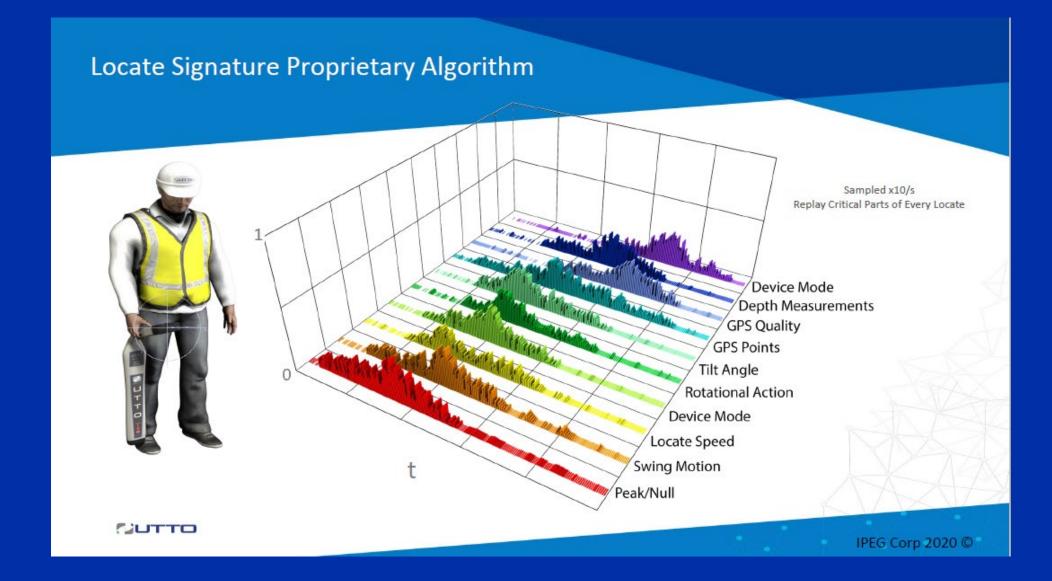
#### Locate Assurance<sup>®</sup> = Identify bad locating practices that result in damages

- > Ability to live audit a locator that has bad habits
- > Automated Alerts Before Leaving Site
- > Provides On-Site Productivity Improvements & Metrics
- > Weekly Performance Feedback to Locators
- > Team Reporting & Incentives
- > Locate Simulator Proven to Reduce Damages

#### **UTTO Pathfinder Locate Device**

- > Does not interfere with Field Tech workflow
- > Lightweight Device with Lithium Rechargeables
- > 1m GPS Positioning (6" in Q3 2021)
- Cloud connectivity/IoT device management







# conEdison

# **Locate Assurance**

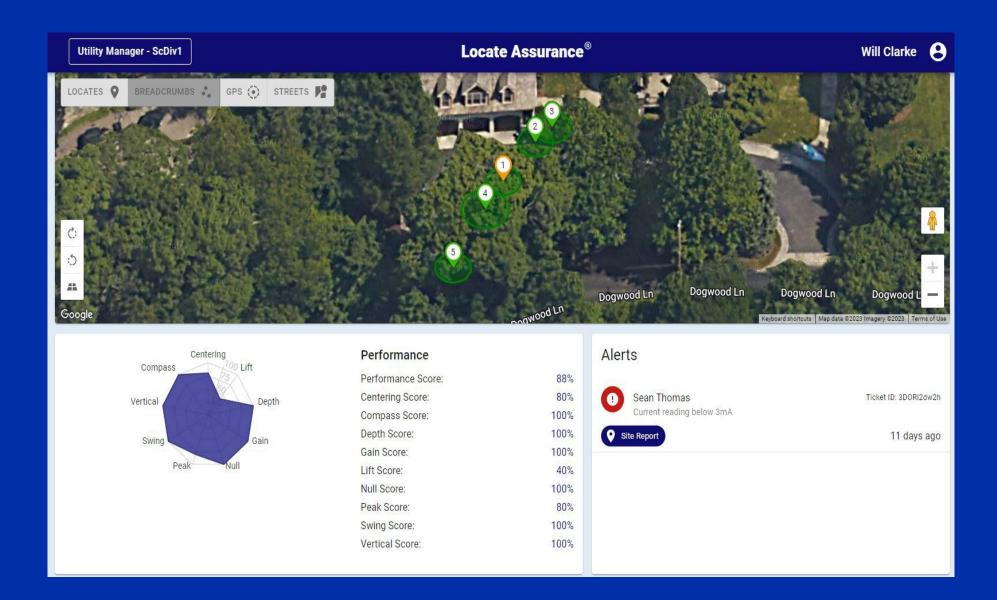
- Locate risk assessment: Identify bad locate practices that can result in damages.
- Improve quality & enforce best practices.
- Field performance transparency with alerts, reporting & analytics.
- The ability to perform remote audits.
- Breadcrumb tracking including distance located and locate time.

IN







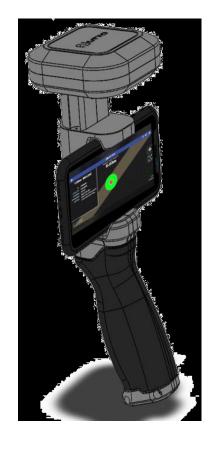




**INTERNAL** 

# vLocate<sup>®</sup> RTK Mapper

- UTTO's vLocate® technology in a compact and tough handheld device
- Simple Fast Centimeter Accuracy Guidance to Facilities
- Designed specifically for the Utility Industry
- No long learning curve, GIS classes or hand holding required
- Import & load your existing GIS datasets or create new
- Map your assets during construction or locate and mark operations
- Reduce damages, improve safety, and increased productivity





#### INTERNAL

# Public Improvement Initiatives 2024 - 2025

- Special care removal of all curbs and sidewalks
  - Proactively avoid damages on shallow facilities
- System alerts High and Medium Subsurface risk alerts
  - Share High alerts with the various agencies expand to Medium
- Summer Season Electric system peak loads
  - Additional precautions when working around primary facilities
  - Expand to Winter Season Gas and Steam system peak loads
- Damage prevention discussions during Pre award meetings with NYC DDC
  - Discussions in advance about facility protection and safe work practices
- STKY "Stuff That Will Kill You"
  - Part of every briefing
  - Interactive conversation with all stakeholders



#### INTERNAL

# **Con Edison Oversight**

- Con Edison is a partner in the project
- Provides Con Ed Inspector coverage
- Three-way communication especially with job/location changes
- Job briefs/walk downs
- Milestones/Incentives
- Risk outweighs incentives



# Analysis – 2024 - 2023

<b>City Contractor Damages</b>	2024		2023		
Total Damages	72		108		-33%
Root Cause					
Careless	29	40%	36	33%	-19%
Plate Incorrect	23	32%	27	25%	-15%
Shallow	7	10%	24	22%	-71%
Hand Tool	6	8%	7	6%	-14%
No 753	2	3%	5	5%	-60%
Failure to Recall/Invalid 753	2	3%	2	2%	0%
Locator Error	2	3%	5	5%	-60%
Other	1	1%	2	2%	-50%



# Contractors' Perspective on Safety





# CORPORATION

Thomas Liccione – Director Environmental, Health and Safety



#### Borough Based Jail - Brooklyn Facility

Tutor Perini Corporation (TPC) was awarded the \$2.95 Billion Design Build Borough Based Jail - Brooklyn Facility in 2023. TPC mobilized to the site in April of 2024.

Obstacles TPC has faced and how we continue to overcome them on the project:

- Design Build projects pose challenges from a forecasting and preparation standpoint. As design is subject to change altering scopes of work and requirements.
- TPC's team of professionals work closely together and have the experience necessary to handle these challenges.
- Protection of the public, worker safety, and adherence to requirements set forth by governing agencies.
- The project is located in downtown Brooklyn, which can present logistical challenges.
- TPC continues to coordinate with the public and governing agencies to mitigate these challenges.
- Maintenance and Protection of Traffic (MPT) plan that includes flagging and traffic controls is strictly adhered to.
- ✓ Department of Design and Construction Office of Construction Safety submittal process.
- Through open communication with the DDC OCS team we have made great strides in the site safety plan submittal process on the OCS Portal.



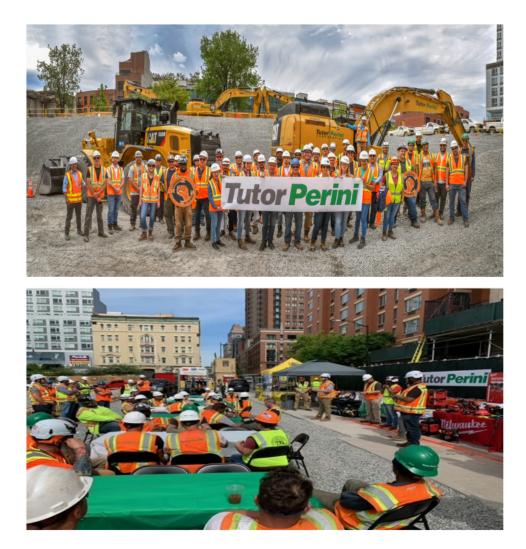




#### Borough Based Jail - Brooklyn Facility

#### TPC Safety Program Overview:

- TPC promotes a positive safety culture beginning with our top leadership. The Safety Department advises and consults with all layers of management including, the operations team, individual project team, and other key staff to ensure the highest standards are met throughout all aspects of the company's operations, both internally and externally.
- TPC provides thorough training to our employees on safety protocols, hazard recognition, and proper equipment usage. Additionally, TPC ensures our employees and subcontractors receive safety training to remain in compliance with federal, state, and local law requirements.
- Established safety policies and procedures are implemented and adhered to. These policies are reviewed and updated to reflect the latest industry standards and best practices.
- TPC's proactive approach to safety management includes regular site inspections, hazard assessments, and safety audits.
- Due to the buy in and support of our employees TPC's Safety Program continues to yield successful results.



# Dumas Gabbriellini - Director Environmental, Health & Safety



#### MFM Contracting Corp. Safety Meeting Report

Meeting Date:	2/11/2025 8:37:17 AM	Created Date:	2/11/2025 8:37:17 AM
Job:	183-0-100 CE	Meeting Sent:	2/12/2025 7:00:27 AM
	MANHATTAN GAS TURNKEY: CON EDISON	Meeting Received:	2/12/2025 7:00:28 AM
Recorder:	CENTENOF: FAUSTO BORJA-CENTENO		
Duration:	10 (minutes)		
Total training hours:	1.17		
Meeting Type: Daily Jo	b Safety Briefing		
Daily Job Safety	Briefing for Gas Project - CE Ga	s Daily Briefing Updated 7-24	1-24

#### ATTENDANCE

Employees:	100% (7	on site, 7	attended)
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Code	Name	On-site	Attended
A Villa	ANDRES VILLA	x	x
Borja Centeno	Bryan Borja Centeno	x	х
CAMPBELLS	SEAN CAMPBELL	x	x
CENTENO	JOSE CENTENO	х	х
CENTENOF	FAUSTO BORJA-CENTENO	x	x
RIVERAC	CRISTIAN REINOSO-RIVERA	x	x
ZHICAY	LUIS ZHICAY	x	х
Visitors:			
Name	Visitor Notes	On Site	Attended
Sonia Orozco		X	х

#### SIGNATURES



	Contracting C	orp.
C. C	DAILY JOB BRIEFING	
Layout #M23-100873535		Date 2/11/25
Location W.119 st btwn Lenox ave		Time 9 am
Pre-Job Briefing/Scope of Work: At 9 am we star doing the safe's transfer to the new main and I w I speak with the guys about stky Competent Person: Fausto Borja Flagger: SONIA OFOZCO Spotter: UTSUAN RVVPA Con Edison Inspector: N INVEVES	ent over the CD plate feed	
Minimum items to check prior to star T IS REQUIRED BY ALL MFM EMPLOYEES CONTINUOUSLY @4'> Initial atmospheric reading AM <u>9:45</u>	t of work: S TO PERFORM ATMOSPHERIC 1 Mid-day11:45	resting PM_1:55

Call S11 for a "Code 753" marked out, except in emergencies where hand digging only is permitted. After removing asphalt, no mechanical excavation is permitted within the tolerance zone until facility is located by hand excavation. After facilities are located, mechanized equipment is permitted no closer than 4"from the facility. (C-1280-2, CEHS 913.00, Code 753) Note: Contractors are required to maintain a minimum of 12" on parallel excavations and 6" on facility crossings. (See Trenching Manual). Service-to-main connections have a 3" tolerance zone (hand excavate in this 6" of a area, The colerance zone for gas mains and services is 24" plus 34 the pipe diameter (if known) on all sides of the pipe (36" tolerance zone for contractors). Fully expose gas mains and services by hand prior to using mechanized equipment. Compare layouts, gas/electric/steam/regulator/MAS/CKDO plustes to the mark-outs and field conditions.

#### Pre-Job Briefing Signatures:

2

I have been briefed on the correct procedures for doing this job safely and understand the saftey protocals for this job and fully understand the hazards and the safe work practices to mitigate these risks. PLEASE SIGN DIGITALLY ON HCSS APP. All employees will report all injuries and close calls to foreman/Super.

# **Contractor Safety Performance Evaluation**





Evaluation Criteria	Maximum Deduction	
Fatalities or OSHA reportable cases	40% or 25% max	
Accidents – Treatment beyond first aid	20% max	
Incident – Minor injuries, and property damage including 15% max at-fault utility damages		
High Risk Deviations	5% max	
DDC Stop Work Orders	10% max	
Working without an acceptable SSP	10% max	

# Safety Evaluation Process and Tools

**Metrics** 

Comprehensive checklists are used to guide the evaluation process, ensuring all essential areas and criteria are captured. Data

 $\square$ 

Data is collected through safety audits, SSP reviews and accident/incident investigations. Report

**—** 

Evaluation results are shared with project staff and reflected in the overall contractors' periodic and final evaluation in PASSPort.



# **Contractor Improvement Strategy**

# 2

3

#### **Action Plan**

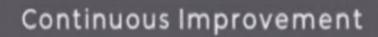
Review the evaluation and develop a detailed action plan to improve safety performance in the identified areas.

#### Implementation

Implement the action plan promptly, ensuring that corrective measures are taken to address safety concerns.

#### Monitoring

Regularly monitor safety performance and effectiveness of implemented corrective measures, making improvements as needed.





# SAFETY REGULATORY UPDATES

OSHA NYC DOB





# SAFETY UPDATES OSHA Revision of PPE Standard 29 CFR 1926.95

Effective Date January 13, 2025

2 Safe Design PPE must be of safe design and construction for the work performed

## Proper Fit

PPE must be selected to ensure proper fit for each affected employee





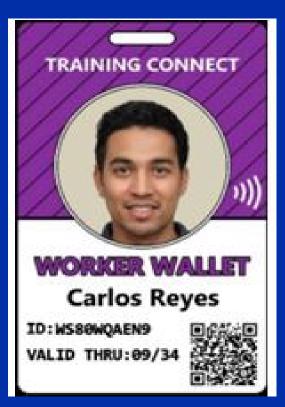
# New Definition of Major Buildings – Effective December 11, 2024

#### New Definition

- An existing or proposed building 7 (instead of 10) or more stories or 75 (instead of 125) feet or more in height.
- A building footprint of at least 100,000 s.f.<sup>2</sup>; or
- A building that the DOB Commissioner has designated due to unique hazards caused by construction or demolition.
- Applies to initial permits issued and initial permit requests submitted on or after December 11, 2024.
- The new definition of major building does not impact façade work continue to apply only to buildings more than 14 stories or 200 feet in height.



# **NEW Worker Wallet Card – Effective November 1, 2024**



<ul> <li>Mast Climber User/Operator and Refresher</li> </ul>	<ul> <li>Climber/Tower Crane Rigger</li> </ul>	• Rigging Supervisor
• Rigging Worker	• Supported Scaffold User	<ul> <li>Supported</li> <li>Scaffold Installer</li> <li>&amp; Remover</li> </ul>
• Suspended Scaffold User	<ul> <li>Suspended Scaffold Supervisor</li> </ul>	<ul> <li>Periodic Gas</li> <li>Piping Inspector</li> </ul>



# NYC DOB Hoist Machine Operator (HMO) License Update

**Effective Date** 

October 16, 2024

2 New Requirement

**3** Existing Licenses

Limited License Articulating Boom Cranes, Mini Cranes, and Telehandlers added to the list of equipment requiring license for operators C-1, C-2, C-3 holders can continue operating

authorized equipment after November 7, 2024

# NYC DOB HMO License Update

Effective Date

November 7, 2024

2 New Requirement

HMO license required for articulating boom cranes, mini cranes, and rotating telehandlers.

3 Supervision

Unlicensed operators must be supervised by licensed HMO after 11/7/24





# **Unlicensed Operation Must be Reported**

Site Safety Managers, Site Safety Coordinators, and Construction Superintendents are required to report the unlicensed operation of articulating boom cranes, mini cranes, and rotating telehandlers.

# Lift Director License

Beginning January 1, 2025, any person acting as a Lift Director or performing the duties of a Lift Director must be registered with the Department of Buildings as a Lift Director, or be licensed by DOB as a Master Rigger, or be a Master Rigging Foreman and acting as a Lift Director under the direct and continuing supervision of the Licensed Master Rigger.





# Environmental Compliance





# Office of Environmental & Hazmat Services (OEHS)

### **Mission**

- Environmental Safety Protecting the public, the workers, the natural resources and wildlife of NYC.
- Environmental Compliance Ensuring compliance of construction projects and their conformance with environmental regulations, DDC specifications, and approved plans.







# TOPICS:

- Environmental Compliance Audits
- Stormwater Pollution Prevention Plan (SWPPP)
- NYSDEC New SPDES Construction General Permit (CGP)
- Illicit Discharge Detection and Elimination (IDDE)
- Environmental Awareness Program
- Construction Documents

### **Environmental Compliance Audits**

#### Field Audits Started in 2024:

- Completed 410 environmental audits
- Issued two (2) Partial Stop Work Orders (SWOs)

### Audit Process:

- Utilizes ScoreCard Plus to capture audits
- The Environmental Requirements Compliance Checklist is shared with project staff ahead of audit
- Contractors must implement corrective actions, supported by date/time-stamped photos and captions

### Pre-Construction and Progress Meetings:

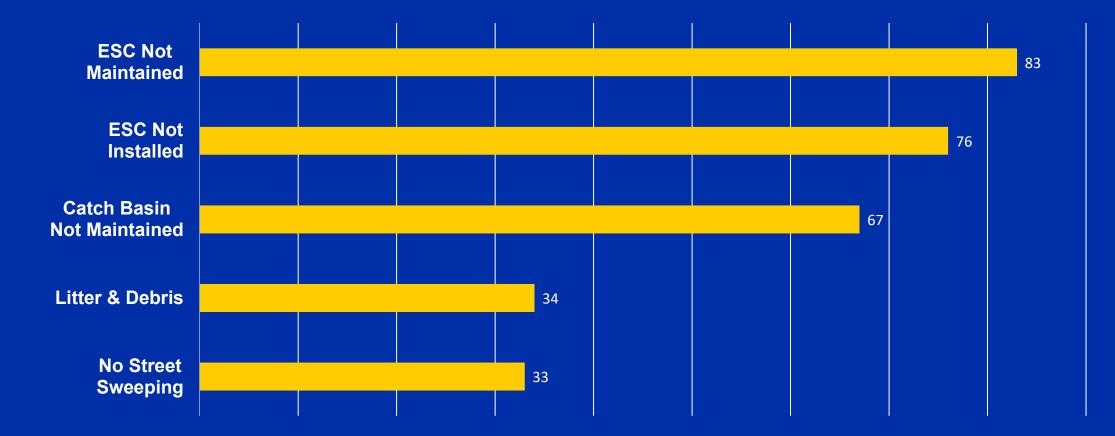
 Discuss Environmental Compliance and corrective action implementation







### **Top Five Environmental Deviations in 2024**





# **Corrective Actions**

Should adhere to Stormwater Pollution Prevention Plan (SWPPP) and Illicit Discharge Detection and Elimination (IDDE) guidelines





#### Erosion and Sediment Control (ESC) Maintenance:

- □ Install missing ESC measures (e.g., silt fences, inlet protections)
- □ Repair or replace damaged/clogged ESC systems
- Clean sediment buildup in filters regularly

#### Site Cleanup and Management:

- □ Remove construction debris promptly
- Sweep roadways to eliminate sediment regularly

#### Record-Keeping:

- □ The DEP Stormwater Construction Permit must be posted on site
- Pertinent records must be maintained on-site
- Daily and weekly Inspections must be documented and kept on-site

#### Water Discharge Compliance:

- Prevent discharges to state waters not covered by the SPDES Permit
- □ Address violations of state water standards immediately
- Report Illicit Discharge Detection and Elimination (IDDE) events to DDC Infrastructure/Construction immediately

# Stormwater Pollution Prevention Plan (SWPPP)

- Construction must not commence without a DEP Stormwater Construction Permit.
- The DEP Stormwater Construction Permit must be posted on site.
- Pertinent records must be maintained onsite.
- Maintain good housekeeping to prevent pollutants from getting into the stormwater runoff.
- Rain events have the potential to cause on-site or off-site property damage due to ESC failures.
- ✤ A Trained Contractor must inspect the project site daily.
- ✤ A Qualified Inspector must conduct site inspections every 7 days.
- Daily & weekly inspections must be documented and kept on site.

Rohit T. Aggarwala Commissioner	THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION Bureau of Environmental Planning & Analysis 59-17 Junction Blvd. 9th Floor, Flushing, NY 11373 Stormwaterpermits@dep.nyc.gov	Pinar Balci Assistant Commissioner Environmental Planning & Analysis
STORMWATER CONSTRUCTION PERMIT		
PROJECT NAME: SITE ADDRESS:		Issued: Expiration: Application ID:
Developer :	JUDITH CORIOLAN NYC-DDC 30-30 THOMSON AVENUE, LONG ISLAND CITY, NY 11101 LIC, New York 11101	Request ID:
Contractor :		
The holder of this permit must comply with the Rules of the City of New York, Title 15, Section 19.1-03.3. Failure to comply with the permit conditions may result in penalties. Discharges of soil or other objectionable materials to the roads, drains or waterways is a violation of this permit and should be reported via 311. Temporary shutdown of the construction site must be reported to the Department at least 7- days prior.		
	*DISPLAY PERMIT ON CONSTRUCTION SITE	Jong Otam
Margaret O'Connor,P.E. Director of MS4 Construction Permitting		



A SWPPP approval is not an authorization to begin soil disturbance activities.

### NYSDEC New SPDES Construction General Permit (GP-0-25-001)



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC)

SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES

From

#### CONSTRUCTION ACTIVITY

Permit No. GP-0-25-001 Construction General Permit (CGP) Issued Pursuant to Article 17, Titles 7, 8 and Article 70 of the Environmental Conservation Law

Effective Date: January 29, 2025

Expiration Date: January 28, 2030

JAN. 29 2.025

Date

Scott E. Sheeley

Chief Permit Administrator

Authorized Signature

Address: NYSDEC Division of Environmental Permits 625 Broadway, 4th Floor Albany, N.Y. 12233-1750

- Effective on January 29, 2025, and expires on January 28, 2030.
- Owners or operators with active coverage under GP-0-20-001 have 45 calendar days of interim coverage under GP-0-25-001, which is until March 16, 2025.
- Owner or operators are required to obtain continued coverage beyond the interim coverage period within 30 calendar days of the effective date of GP-0-25-001, which is until February 28, 2025.
- Required for all construction projects within the municipal boundaries of NYC with 20,000 sf or more of disturbance or creating 5,000 sf or more of impervious area, partially or entirely within the municipal separate storm sewer system (MS4).
- SWPPP amendments will not be required during this transition period; however, project staff should be aware that a new version of the CGP is published by NYSDEC which should be referenced and kept on site.

### **Illicit Discharge Detection and Elimination (IDDE)**

- Illicit discharges include any discharge into a storm drain that does not consist entirely of stormwater.
- Discharges not prescribed by a State Pollutant Discharge Elimination System (SPDES) Permit, or otherwise that cause or contribute to water conditions violating state standards are prohibited.
- Illicit discharges are a problem because stormwater generally flows to waterways without any treatment.
- When an IDDE event occurs, Contractors must to report to DDC Infrastructure/Construction who will notify DDC OEHS and identify the source of the illicit discharge and provide the location of discharge.
- Connection permits from DEP may be necessary as corrective action to eliminate illicit discharges.







### Environmental Awareness Program

- Implemented the Environmental Awareness Program by visiting active construction sites.
- OEHS presents information on various environmental issues, permits and construction documents.
- Giveaways are used during fun Q&A sessions to reward staff with correct answers.
- During these visits, Tip Cards are distributed to promote regulatory compliance and best practices.



### **Environmental Awareness Program – Tip Cards**



- Good housekeeping is a simple erosion and sediment control that helps prevent pollutants from getting into the stormwater runoff from a construction site.
- Effective housekeeping measures include:
  - Performing daily sweeping of paved roadways.
  - Managing construction site litter and debris.
  - Controlling dust.
  - Covering dumpsters.
  - Properly covering and storing paint and other chemicals.
  - Properly storing materials and equipment.
  - Training employees regularly on good housekeeping practices.
  - The main objective of maintaining good housekeeping is:
    - Keep pollutants from contacting rain.
    - Keep pollutants from being dumped or poured into the storm drains.

**Office of Environmental & Hazmat Services (OEHS)** 

The goal is "only rain in the storm drain."



- City Environmental Quality Review (CEQR) requires an extensive impact assessment of many city projects through the preparation of an Environmental Assessment Statement (EAS) and/or Environmental Impact Statement (EIS).
- During the preparation of the EAS/EIS, various agencies are involved in evaluating the potential impact and possible mitigation efforts. The mitigation often requires commitments made in the EAS/EIS, which must be executed during the implementation of the construction project.
- When contamination and/or hazardous materials are identified during subsurface sampling conducted during the EAS/EIS assessments, various commitments are established, which the Contractor must follow. These commitments may include but are not limited to Remedial Action Plans (RAP), Construction Health and Safety Plans (CHASP), Clean Fill Reports, and/or soil vapor installation.
- When the proposed construction work impacts Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) regulated wetlands, there may be a need for wetland restoration to be completed. The Contractor must ensure that the wetland restorations are completed in accordance with approved EAS/EIS and drawings included in the Joint Permit Application (JPA).
- Some DDC projects may have an impact on potentially sensitive archeological and architectural resources. When these potentially sensitive areas are identified within or near the project limits, various commitments are established in the EAS/ EIS. The commitments may include but are not limited to an Unanticipated Discovery Plan, Phase IB Archeological Assessment, and/or Construction Protection Plan.

Office of Environmental & Hazmat Services (OEHS)



According to the DDC HazMat Specifications for Handling, Transportation, and Disposal of Potential and Identified Contaminated and Hazardous Materials (Item 8.01), the following construction documents are required to be provided in the order referenced below:

- 1. Field Sampling Plan (FSP) & Investigation Health and Safety Plan (IHASP)
- 2. Field Sampling Summary Results (FSSR)
- 3. Material Handling Plan (MHP) & Environmental Health and Safety Plan (EHASP)
- 4. Water Handling Plan (WHP) if applicable
- 5. Waste Profile (WP) & Waste Profile Request for Information (RFI)

Note that OEHS will not provide an acceptance for the construction documents if these documents are not provided in the order referenced above.

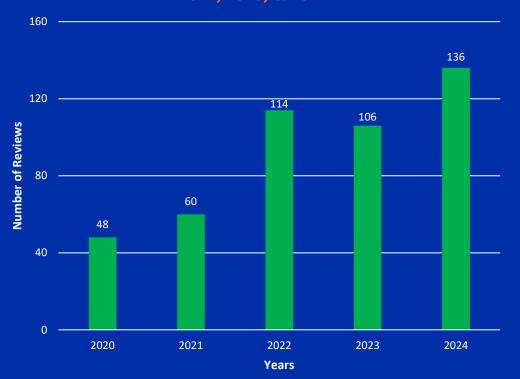
**Office of Environmental & Hazmat Services (OEHS)** 



### **Construction Documents**

- Field Sampling Plan (FSP) & Investigation Health and Safety Plan (IHASP)
- Field Sampling Summary Results (FSSR)
- Material Handling Plan (MHP) & Environmental Health and Safety Plan (EHASP)
- ✤ Water Handling Plan (WHP)
- Waste Profile & Waste Profile Request for Information (RFI)

### Construction Document Reviews in 2020, 2021, 2022, 2023, & 2024



All Construction Documents must be reviewed and accepted by OEHS prior to the start of the associated activities



### **New Construction Documents Templates**



#### Effective Date March 1, 2025

#### **Field Sampling Plan**

#### FSP Prepared for:

Insert Project Name Insert Capital Project ID Number Insert Project/Site Address/Location Insert Project/Site Phone Number



New York City Department of Design and Construction 30-30 Thomson Ave, Queens, New York 11101

> Insert Contractor Name Insert Address, City, State, Zip Code

#### FSP Prepared By:

Insert Company or Organization Name Insert Contact Name Insert Address, City, State, Zip Code Insert Phone Number Insert Fax/Email

> FSP Preparation Date: Insert Date

FSP Revision Date:

Insert Date

#### What's New?

✤ Templates to align with the latest DDC HazMat Specifications (Item 8.01).

✤ Available templates:

- Field Sampling Plan (FSP) & Investigative Health & Safety Plan (IHASP)
- Field Sampling Summary Results (FSSR)
- Material Handling Plan (MHP)
- □ Environmental Health and Safety Plan (EHASP)
- □ Water Handling Plan (WHP)

#### Why This Matters:

- Ensures compliance with updated protocols.
- Facilitates more efficient and accurate submission of required documents.

#### **Next Steps:**

- Bookmark the webpage below for easy access.
- ✤ Use the templates from the webpage for all future submissions.
- ✤ Notify your team to transition to the new templates.

DDC website https://www.nyc.gov/site/ddc/resources/publications.page#safety



# **THANK YOU!**

