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# Installation of Trunk Water Mains in W. 30<sup>th</sup> Street

Connections to Shaft 26B – 10<sup>th</sup> Avenue

**Project ID: MED598**



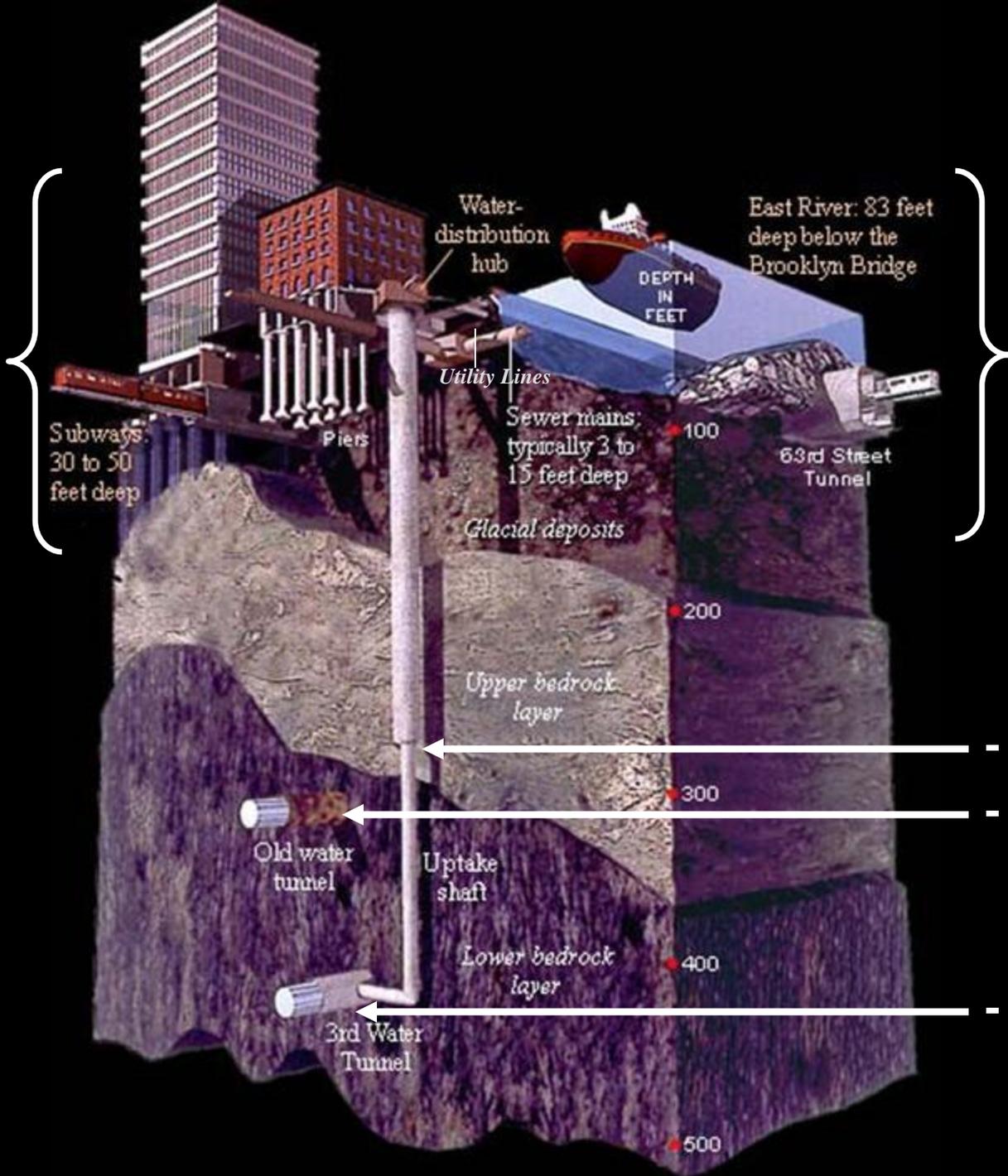
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# **WHY IS THIS PROJECT NECESSARY?**

- 
- ✓ New York City's water distribution infrastructure is aging and in need of repair and upgrades.
  - ✓ To accomplish this, the City of New York has constructed a new water tunnel, City Tunnel No. 3.
  - ✓ The W.30<sup>th</sup> Street project is one of 10 such planned projects in Manhattan that will connect new shaft distribution chambers to City Tunnel No. 3.
  - ✓ Upon completion of these chambers, the City will be able to activate sections of the new tunnel #3 and begin rehabilitating City Tunnel Nos. 1 & 2.



**INSTALLATION OF TRUNK WATER MAINS IN W. 30<sup>th</sup> STREET**  
**(Connections to Shaft 26B in 10<sup>th</sup> Avenue, 30<sup>th</sup> to 31<sup>st</sup> Streets)**  
**Project ID: MED598**



Many interferences under New York City streets

- Shaft min. 450 ft in depth

- Old water tunnel

- 3<sup>rd</sup> Water Tunnel



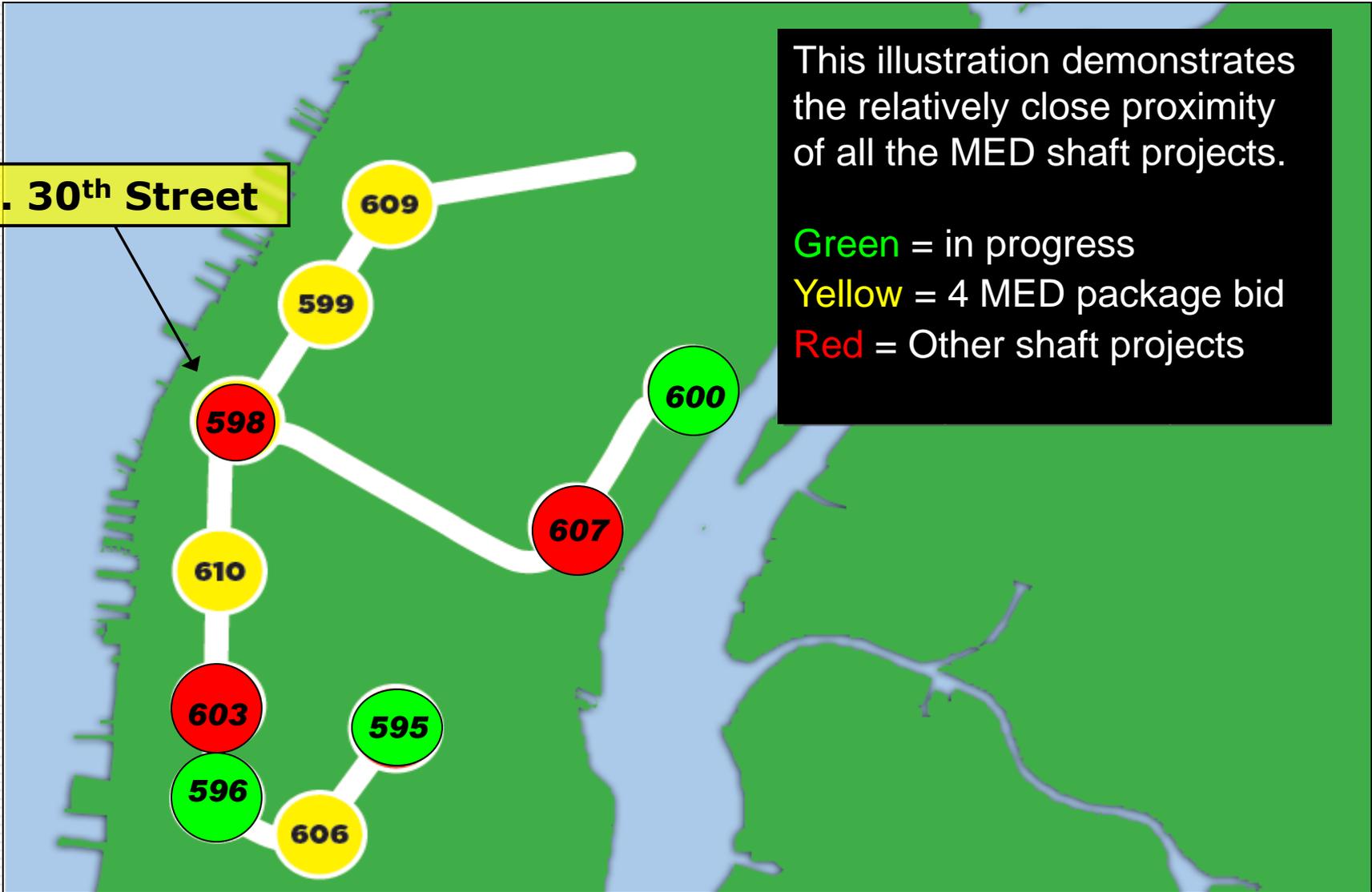
# CONNECTING TO 3<sup>RD</sup> WATER TUNNEL SHAFTS

## CRITICAL PROJECTS

This illustration demonstrates the relatively close proximity of all the MED shaft projects.

Green = in progress  
 Yellow = 4 MED package bid  
 Red = Other shaft projects

W. 30<sup>th</sup> Street



(Connections to Shaft 26B in 10<sup>th</sup> Avenue, 30<sup>th</sup> to 31<sup>st</sup> Streets)  
Project ID: MED598

# PROJECT LOCATION

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**INSTALLATION OF TRUNK WATER MAINS IN W. 30<sup>th</sup> STREET  
(Connections to Shaft 26B in 10<sup>th</sup> Avenue, 30<sup>th</sup> to 31<sup>st</sup> Streets)  
Project ID: MED598**

**PROJECT LIMITS:**

**W. 30<sup>th</sup> Street from 12<sup>th</sup> Avenue to 10<sup>th</sup> Avenue & 10<sup>th</sup> Avenue from W. 30<sup>th</sup> Street to W. 31<sup>st</sup> Street**



# PROJECT DURATION & SCOPE OF WORK

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**INSTALLATION OF TRUNK WATER MAINS IN W. 30<sup>th</sup> STREET  
(Connections to Shaft 26B in 10<sup>th</sup> Avenue, 30<sup>th</sup> to 31<sup>st</sup> Streets)  
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- 
- Fall 2012 – Spring 2015
  - Estimated construction duration is 910 Consecutive Calendar Days (ccd) or approximately 2 ½ years.
  - Work is divided into 4 Phases – Phase 1 duration is 270 ccd or 9 months

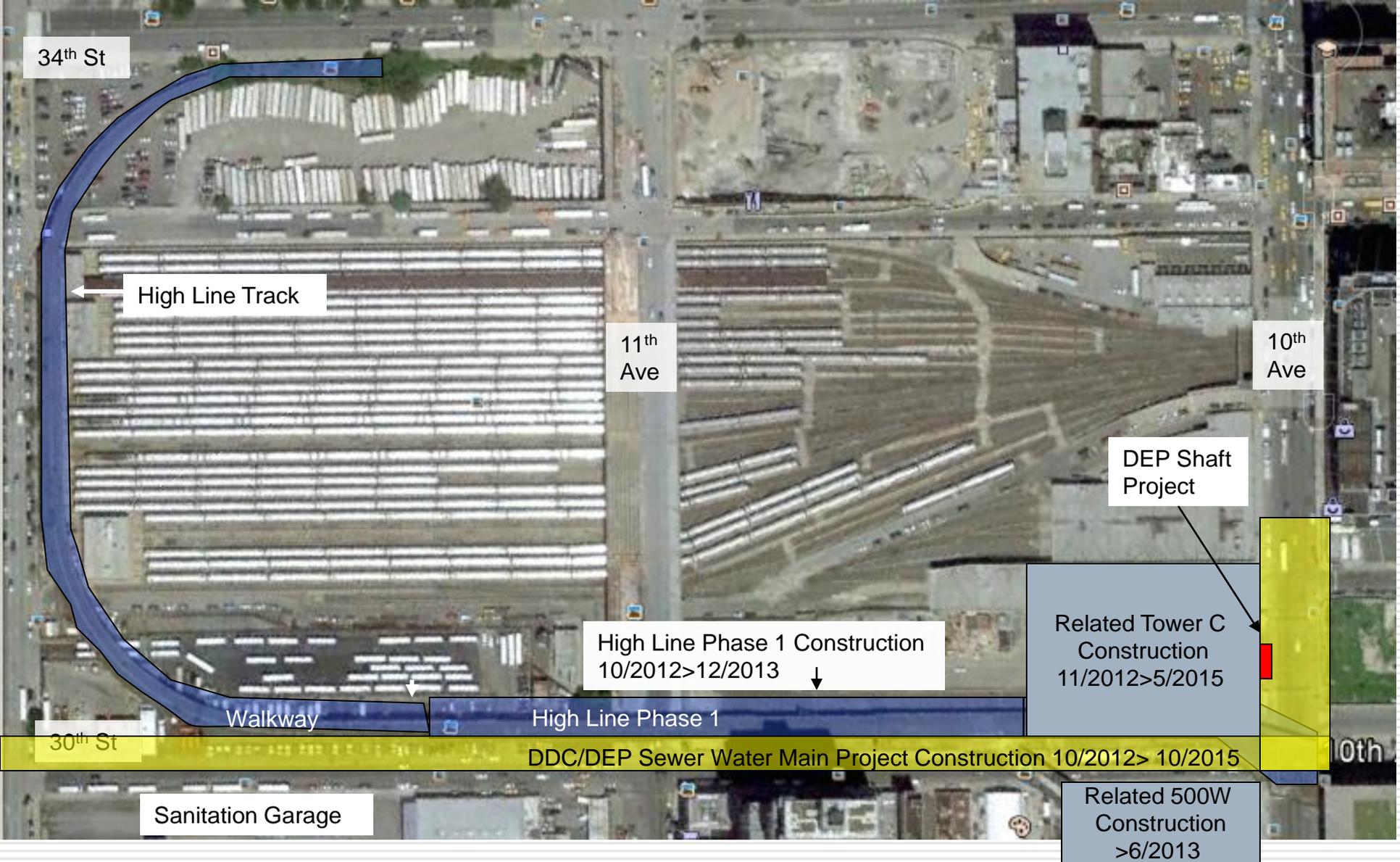
- 
- Connect to 3<sup>rd</sup> Water Tunnel Shaft 26B
  
  - New trunk and distribution water mains  
Including:
    - 48" and 36" trunk mains
    - 24", 20", and 12" distribution mains
    - Valves, regulators, & chambers

- 
- Replacement of 48" sewer pipe
  - Private utility upgrades
  - Pedestrian ramps at corners (based on field conditions)
  - Reconstruction of curbs & sidewalks in certain locations
  - Some new traffic signal and street lighting poles

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# **CONSTRUCTION**

# **SCHEDULE & PHASING**



## Street Construction Coordination and Logistics

**INSTALLATION OF TRUNK WATER MAINS IN W. 30th STREET  
 (Connections to Shaft 26B in 10th Avenue, 30th to 31st Streets)  
 Project ID: MED598**



- *New Private Utility companies facilities may need to be installed before or after existing facilities are taken out of service to make way for public construction.*
- *Relocation of Oil-O-Statics (130 KV Transmission) may take two years to coordinate Primary electric (13KV) cannot be done in summer. Gas/steam work cannot be done in winter. Electric (13KV) cannot be done in summer.*

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**INSTALLATION OF TRUNK WATER MAINS IN W. 30<sup>th</sup> STREET  
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# Manhattan Infrastructure Challenges



- Actual conditions unknown until road is excavated
- MPT - maintenance of Traffic, Pedestrians, Emergency Access.
- Unidentified ducts will be present.
- Abandoned facilities buried below active facilities.







**PHASES I, II, III AND IV**

**LIMITS OF CONSTRUCTION**

**PHASE I**  
 INSTALLATION OF NEW 48-INCH COMBINED SEWER AND  
 8-INCH DISCHARGE, NEW 20-INCH DISCHARGE MAIN, NEW 8-INCH SUMP  
 DISCHARGE, NEW 2" HOUSE SERVICE CONNECTION AND NEW  
 PRESSURE RELIEF CHAMBER NO. 2 IN 10TH AVENUE BETWEEN W. 30TH  
 STREET AND W. 32ND STREET AS SHOWN.

**PHASE II**  
 ALL WORK IN W. 30TH STREET BETWEEN 10TH AVENUE AND 11TH  
 AVENUE INCLUDING COMPLETION OF NEW 4'-0" DIA. X 6'-0" H.T. T.C.  
 (R.F. 101)

**PHASE III**  
 ALL REMAINING WORK IN 10TH AVENUE BETWEEN W. 30TH STREET  
 AND W. 32ND STREET

**PHASE IV**  
 ALL WORK IN W. 30TH STREET WEST OF WEST STREET (ROUTE 9A)  
 INCLUDING HELIPORT AREA.

**NOTES:**

THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ONGOING  
 NYCEEP WATER TUNNEL SHAFT PROJECT, NYCEEP FISH LINE  
 PROJECT AND THE ONGOING BUILDING PROJECT.

THE CONTRACTOR SHALL BEGIN WORK IN PHASE I AND PHASE II  
 SIMULTANEOUSLY.

THE CONTRACTOR MUST COMPLETE ALL WORK IN PHASE IV DURING  
 THE PERIOD OF JANUARY 1, 2013 TO APRIL 30, 2013.

THE CONTRACTOR SHALL EMPLOY A MINIMUM OF TWO (2) WORK  
 CREWS WHEN WORKING IN PHASE I.

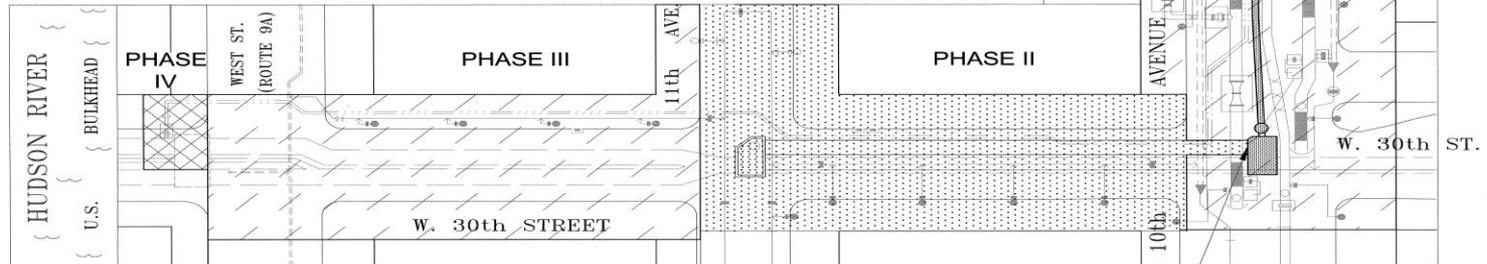
THE CONTRACTOR SHALL EMPLOY A MINIMUM OF TWO (2) WORK  
 CREWS WHEN WORKING IN PHASE II.

EACH WORK CREW MUST INCLUDE A MINIMUM OF:

ONE (1) FOREMAN  
 FOUR (4) LABORERS/CARPENTERS  
 ONE (1) HEAVY EQUIPMENT OPERATING ENGINEER  
 ONE (1) SIGNING OR HEAVY EQUIPMENT AS APPROVED BY THE  
 ENGINEER.

**PHASE I**

- NEW CHAMBER NO. 2
- NEW CHAMBER NO. 3
- NEW 2" HOUSE SERVICE CONNECTION
- NEW 8-INCH SUMP DISCHARGE
- NEW 20-INCH DISCHARGE MAIN
- NEW 48-INCH COMBINED SEWER
- NEW PRESSURE RELIEF CHAMBER NO. 2



- PHASE I
- PHASE II
- PHASE III
- PHASE IV

TEMPORARY BULKHEAD AT CHAMBER NO. 2 (UNDER PHASE I) AS DIRECTED BY THE ENGINEER

**CONSTRUCTION PHASING PLAN**  
 SCALE: N.T.S.

|                                |                                      |
|--------------------------------|--------------------------------------|
| DESIGNED: <i>ITA</i>           | SCALE: N.T.S.                        |
| DRAWN: <i>E. KULMANN</i>       | ENGINEER-IN-CHARGE: <i>P. Pharis</i> |
| CHECKED: <i>A. KADUKANAKAL</i> | DIRECTOR: <i>P. Pharis</i>           |
| CADD FILE:                     |                                      |

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

PROJECT ID: MED598  
 TRUNK WATER MAIN CONNECTIONS TO SHAFT 26B  
 IN 10TH AVENUE, BETWEEN  
 W. 30TH STREET AND W. 31ST STREET, ETC.  
 BOROUGH OF MANHATTAN

| NO. | DATE | DESCRIPTIONS / REVISIONS | BY | APPROVED |
|-----|------|--------------------------|----|----------|
|     |      |                          |    |          |

**CONSTRUCTION PHASING PLAN**

PROJECT ID: MED598    DATE: 02-29-12    SHEET 4A OF 27    5/24

INHOUSE DESIGN

**INSTALLATION OF TRUNK WATER MAINS IN W. 30<sup>th</sup> STREET  
 (Connections to Shaft 26B in 10<sup>th</sup> Avenue, 30<sup>th</sup> to 31<sup>st</sup> Streets)  
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# TRAFFIC PATTERNS DURING CONSTRUCTION

# PRELIMINARY SCHEDULE: WORK HOURS / SPECIAL NOTES

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City DOT Allowable work hours:

10th Ave bet. W 29th and Amtrak RR

11th Ave bet. W29th and Amtrak RR

W 30th bet. 10th Ave and Joe DiMaggio Hwy (Rte 9 A)

W 31st bet. 10th Ave. and Lincoln Tunnel Approach

- 7AM – 10PM: Monday – Friday
  - **(at the intersection of 30<sup>th</sup> St and 12<sup>th</sup> Ave (9A) project hours will be night work only)**
- 8AM – 10PM: Saturday & Sunday

• **Typical weekday work hours are 7AM to 4PM**

# TRAFFIC PATTERNS DURING CONSTRUCTION

- 
- **10<sup>th</sup> Avenue**, between 29<sup>th</sup> and Amtrak RR entrance:
    - ✓ Maintain at least three (3) eleven (11) foot travel lanes at all times
  - **11<sup>th</sup> Avenue**, at 30<sup>th</sup> Street:
    - ✓ Maintain at least three (3) eleven (11) foot travel lanes at all times
  - **W30th Street**, Route 9A to 10<sup>th</sup> Avenue:
    - ✓ Maintain one (1) thirteen (13) foot lane of traffic
      - (maintain at least one (1) of the three (3) access points to Hudson Yards)

- 
- Traffic mitigation personnel, proper signage and MPT (Maintenance and Protection of Traffic) will be installed in/around the construction area to alert and direct motorists.
    - This includes:
      - ✓ Traffic Enforcement Agents (TEA's)
      - ✓ Variable Message Signs (VMS)
      - ✓ Video Cameras for Traffic Monitoring

# COMMUNITY IMPACTS & WHAT TO EXPECT

## Office of Community Outreach & Notification

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- ❑ Pedestrian access to buildings will be maintained at all times.
- ❑ MTA Bus stops (**M11**) may need to be relocated within construction zones. (advanced notice will be given)
- ❑ Uniformed NYPD Traffic Agents assigned for traffic control.
- ❑ Certain operations will be noisy; DDC will monitor operations and work within DEP Noise Code regulations.
- ❑ Merchant deliveries and drop-offs may be affected. Coordination will be necessary in some areas and addressed on a case by case basis (CCL will be in contact with those affected).

## Office of Community Outreach & Notification

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- ❑ Driveway/loading dock access may be temporarily restricted while a street is under construction (coordination will be arranged on a case by case basis).
- ❑ Parking may be temporarily restricted
  - Signs will be posted where necessary and advance notification provided.
- ❑ Garbage/Trash pick up will be affected. CCL will assist with coordination between public and DOS or Private Carters

## Office of Community Outreach & Notification

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### Water Service Interruptions:

- Prior day advance notice will be provided
- Specific instructions will be provided prior to water shutoff
- If your water service is not restored within 3 hours of the time indicated on the Shutoff Notice, please contact the Community Construction Liaison (CCL) or 311 if after hours

### Special Needs:

- Individuals with special needs should contact the CCL
- DDC field staff will work specifically with those individuals to minimize the inconvenience

## Office of Community Outreach & Notification

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### Rodent Control:

- Rodent Control Stations will be maintained by a professional rodent control contractor. A second and unaffiliated professional rodent control contractor will be retained for the sole purpose of monitoring the extermination activities performed by the first contractor.



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# CONSTRUCTION SITE VISUAL ENHANCEMENTS

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Hudson St. from Franklin to Beach

This decorative construction mesh was accomplished in partnership with the **Alliance for Downtown New York** (BID).



Hubert St. from Greenwich to Hudson

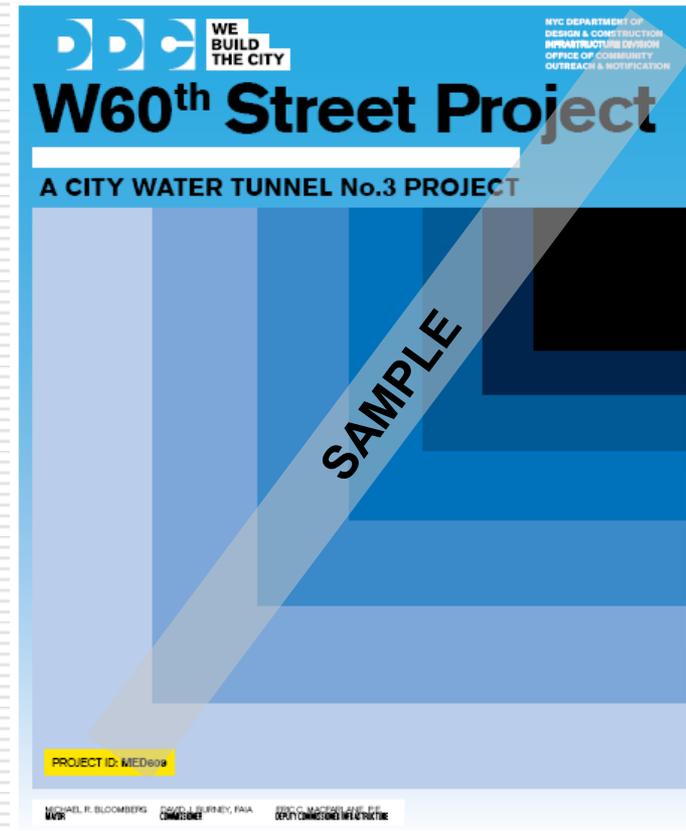
# COMMUNITY OUTREACH AND NOTIFICATION

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**INSTALLATION OF TRUNK WATER MAINS IN W. 30<sup>th</sup> STREET  
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## Office of Community Outreach & Notification

- Pre-construction presentations to Community Board
- On-Site Community Construction Liaisons
- Consistent communication with Community Boards and other stakeholders (Residents, Businesses, BID, Tenant Associations, etc.)
- Brochures 
- Weekly Bulletins
- Special Advisory Notices
- E-mail Alerts
- Newsletters



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## Example of OCON outreach materials

Bi-Monthly Newsletter

Enhanced Brochure

Special Edition Newsletter



**RECONSTRUCTION NEWSLETTER**  
OFFICE OF COMMUNITY OUTREACH AND NOTIFICATION  
Borough: Manhattan July/August 2011

**FULTON STREET RECONSTRUCTION PROJECT**  
Project ID#: HWWHTCA6B

**WET CONNECTION OCCURS WITHOUT A GLITCH**  
Following an alert for lower Manhattan (the acting EPC Department of Design + Construction issued a 20" wet tap on an existing 48" reinforced concrete steel water main. This iterative procedure will be used to install 20" water service lines for the project. A permit for the wet tap was issued on May 24 and was completed. The 20" wet tap was installed in the existing 48" pipe trench which leads a number of distribution mains in lower Manhattan. [See photo on slide.](#)

**PROJECT STATUS**  
Reconstruction is concentrated in the following areas:

- Sewer Main between Rensselaer and Spruce streets
- 20" Wet Tap West from E 91<sup>st</sup> to E 92<sup>nd</sup> St
- Reinforced Concrete Sewer Main from E 92<sup>nd</sup> to E 93<sup>rd</sup> St

The contractor will continue to install wet tap, install water main, perform street utility work, roadway reconstruction and work to install installation heading and along the E 93<sup>rd</sup> St.

**WORK COMPLETED**  
During May and June the following work was completed:

- **20" Wet Tap between E 91<sup>st</sup> and E 92<sup>nd</sup> St**: Approx. 1,200 sq ft of sidewalk was installed along with 20" steel wet tap. In June both Don Edson and DOT sidewalk work was completed as well as roadway lane installation at the intersection of Rensselaer and Spruce Street.
- **Reinforced Concrete Sewer Main from E 92<sup>nd</sup> to E 93<sup>rd</sup> St**: Approx. 2,200 sq ft of sidewalk was installed in addition to installation and drainage.
- **10" Water Main from E 92<sup>nd</sup> to E 93<sup>rd</sup> St**: A water main was installed and the sidewalk restored in June. Additionally Don Edson work was completed.
- **20" Wet Tap between E 93<sup>rd</sup> and E 94<sup>th</sup> St**: A wet tap was installed in May 11. Between E 91<sup>st</sup> and E 92<sup>nd</sup> St, 200 sq ft of sidewalk was installed on the E 93<sup>rd</sup> St.
- **Fulton Street St. Installation**: Installation of a 20" wet tap connection to the 48" existing 48" steel water main was completed. A 7 foot piece of reinforced pipe was installed to be the new alternative and tapped to feed into the existing water main.

**JULY/AUGUST 2011 WORK SCHEDULE**

- **20" Wet Tap between E 93<sup>rd</sup> and E 94<sup>th</sup> St**: Continue to install wet tap, install water main, roadway reconstruction and lowering of utilities to accommodate the new sidewalk.

SPONSORING AGENCIES: NEW YORK CITY DEPARTMENT OF DESIGN + CONSTRUCTION  
MICHAEL R. BLOOMBERG Mayor  
CAROL J. BURELL, RMA Commissioner  
ERIC PAROZZI, AIA, PE Chief of Construction Infrastructure

PROJECT ID: HWWHTCA6B  
SUMMER 2010 - SUMMER 2013

COMMUNITY IMPACTS:  
In addition to noise and dust, temporary street, sidewalks, and closures to complete the construction. Additionally, increased parking may be experienced in other construction sites.

ADVERTISEMENTS & SIGNS ON CONSTRUCTION PERMITS:  
DOT's publication, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 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2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 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## Office of Community Outreach & Notification

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- DDC has assigned **NAME** of **REI FIRM**, as the dedicated on-site Community Construction Liaison (CCL) to:
  - Keep stakeholders informed by being the first point of contact for the project
  - Identify/resolve issues
  - Provide regular updates/advisories
  
- CCL contact information:
  - **Office phone:** **(xxx) XXX-XXX**
  - **Email:** **XXXX@gmail.com**
  - **Field Office:** **111 Any Street**
  
- Learn more about DDC: **[www.youtube.com/newyorkcityddc](http://www.youtube.com/newyorkcityddc)**
- DDC Website: **[www.nyc.gov/buildnyc](http://www.nyc.gov/buildnyc)**
  
- During Non-Working hours, please call 311 and give the Project ID:  
**MED598**

