Empire State Development

ATLANTIC YARDS CONSTRUCTION UPDATE
Weeks of March 12th and March 19th

In an effort to keep the Atlantic Yards Community aware of upcoming construction activities, ESD and Forest City Ratner provide the following outline of anticipated upcoming construction activities. We hope it keeps you informed and helps you plan for any possible inconveniences. Please let us know if there's any way we can improve these updates.

If you have any questions please feel free to contact ESD's Project Director at 212-803-3766 or AtlanticYards@empire.state.ny.us

Please note: the scope and nature of activities are subject to change based upon field conditions. In addition, during the utility work water shut-offs may be required; these shutdowns are done under the oversight of DEP and property owners will be given advance notice. All work has been approved by appropriate City and State agencies where required.

Construction at the Arena Site Progresses as Scheduled

Deliveries & Site Access

- Hunt has demobilized the access ramp at Dean Street and Flatbush Avenue. The main gate and delivery ramp is now and will remain for the future at Pacific Street and 6th Avenue. The access route to the Pacific gate remains posted at the site and is the same as it has been throughout the project. Access is also available via the Atlantic Avenue gates at the Fort Greene intersection, midway between the Ft. Greene and 6th Avenue intersection and limited access for concrete trucks on Flatbush Avenue across from 5th Avenue and at the Dean Street intersection.

- Steel deliveries and steel erection will continue throughout this reporting period.

- Façade panel delivery will continue throughout this reporting period.

- Precast concrete delivery to 752 Pacific Ave. lots will continue this period, and precast erection will continue in the lower seating bowl.

- Revisions to the perimeter construction fence are projected to begin this reporting period, in order to allow the site construction activity to ramp up.

Rodent Control Measures Taken

- Hunt and FCRC continue to review and implement actions to supplement the site and adjacent neighborhood's rodent protection activities. Hunt has more than 225 rodent bait stations within the arena work site and Block 1129 that are being monitored and maintained on a weekly basis. Across the site, additional measures are being instituted to redouble efforts related to food garbage control, including the provision of additional garbage containers. In addition, baiting stations have been or will be inspected to confirm operation and repaired or relocated as needed.

Excavation

- Excavation for the "A and B" lines (which circle the basketball court and ice floor) and inner bowl footings that support the precast rakers for the lower bowl seating will continue during this reporting period.

Steel Erection and Stadia Installation

- The need for a second shift crew will be re-evaluated throughout this period. Some weekday overtime (3:30 PM to 11:00 PM) may be needed and work on Saturdays will continue.

- Precast erection in the lower bowl will continue this reporting period, and may be implemented on a second shift on an as needed basis.

- The maintenance of the site to accommodate steel erection and stadia installation will continue during this period. Steel and stadia will continue to be brought into the site through the gate at Pacific Street and 6th Avenue throughout this reporting period.

- Primary (truss) roof steel erection has been completed. Secondary roof framing will continue during this reporting period. Preparation to erect the main entry canopy steel is expected to begin this reporting period.

- The de-shoring of the primary roof trusses has been completed.

- Intumescent (fireproof) painting of the structural steel where required as an alternative to spray on fireproofing will continue on a second shift operation as needed and as weather allows during this reporting period.

- Roof decking installation will continue during this reporting period.

Façade Installation

- The installation of curtain wall and curtain wall/lattice panels will continue on the Flatbush Avenue elevation as needed, and then following the canopy steel erection. In the interest of public safety, and as approved by the New York City Building Department, pedestrians using the east side sidewalk of Flatbush Avenue next to the arena may be temporarily diverted to across the street by Hunt flagmen during high level work. The façade erector will continue with installation of panels along the 6th Avenue elevation this reporting period, and turn the corner west on to the Atlantic Avenue elevation, installing the high panels. Installation of the erection clips will continue on the Dean Street elevation during this reporting period.

- The façade subcontractor will continue to work a second shift as needed throughout this reporting period. Work may be performed on the 6th Avenue, Flatbush Avenue and Atlantic Avenue elevations on second shift.

Waterproofing & Fireproofing

- The application of waterproofing to the interior foundation walls from 6th Avenue at Pacific Street starting north will continue during this reporting period, as weather allows. Backfilling at these locations will follow the waterproofing and will continue during this reporting period.

- The waterproofing of the interior walls of the east stormwater retention tank has been completed. The application of interior waterproofing at the west stormwater tank will continue this reporting period. This work is scheduled to take place on second shift.

- The spray fireproofing will continue throughout this reporting period as weather allows. The contractor performing this work will continue to use temporary electric to power their equipment. The spray fire proofer will work a second shift as needed during this reporting period. The second shift will be continued on an as needed basis beyond this reporting period.

- The maintenance of temporary weather walls (visqueen & tarps) as well as temporary rubber roofing, to provide protection through the winter months, will continue this reporting period.

- Phase 1 of the permanent roofing will continue throughout this reporting period as weather allows. The lower roofs temporary protection is substantially complete and the west elevation high roof installation (Denglass Board, Insulating Board, Vapor Barrier and Rubber Membrane) will continue. The roofer should begin the east half of the arena high roof this reporting period.

Mechanical, Electrical, & Plumbing

- The boiler #2 has been fired and is providing temporary heat via permanent systems to the Event Level and Main Concourse.

- Temporary electric power is being provided at Event Level and Main Concourse as well, to provide temperate conditions for applied finishes work to begin.

- The primary switchgear installation for the Network Protector Room and the ConEd vault wiring installation will continue this reporting period.

  The transformers have been placed in the ConEd vault. The first of the transformers has power to the line, or service side, and permanent power should be available to all transformers on or about March 19th.

- The piping for the storm/sanitary/water services from the street mains to the arena at 6th and Pacific has been completed and the testing/inspection results submitted to DEP.

- The construction fence at the ConEd vault was revised in an earlier period to allow ConEd and the Arena contractors to continue to conduct work related to the installation of transformers that will service the arena. ConEd continues to execute work at this location.

- Mechanical, electrical, plumbing and fire protection rough-in work will continue through this reporting period at the Event, Main, Concourse, Lower Suite, Upper Suite and Upper Concourse levels.

- Elevator and escalator installation will continue this reporting period. Some second shift work is expected to be required for elevator/escalator installation throughout this reporting period.

Interior Build-out

- The masonry contractor will continue working at all levels during this reporting period. The masonry contractor will also be working the elevator shafts.

- Precast concrete stadia erection of the upper seating bowl was completed during the last reporting period at Blocks 10-12 (Dean Street elevation). Precast erection within the lower bowl seating area will continue during this reporting period. The placement of concrete column wraps will continue during this reporting period.

- The gypsum wallboard (GWB) aka drywall framing & construction subcontractor will continue layout of walls during this reporting period and will begin placement of the top wall track and partition walls at all levels. Steel stud placement for partition walls will continue during this reporting period. The wallboard installation will continue on the Event Level, on Main Concourse, and on Lower Suite Level this reporting period.

- The installation of applied finishes will continue during this reporting period at the Event Level restrooms and showers in the Nets Campus areas, as well as the Main Concourse restrooms.

- The placement of slab on grade (SOG) concrete will continue within the arena site at the event level, Area "C" during this reporting period.

- The preparation for placement of the terrazzo flooring (shot blasting/scouring of the slab on metal deck) at the Upper Concourse will continue this reporting period.

- The delivery of the primary kitchen and concessions equipment is expected to start during this reporting period.

New Subway Entrance Moves Forward

Demolition

- Minor demolition remains to complete the work.

Rodent Control Plan

- Civetta has had a rodent control plan in place since September 2010 which includes above and below ground baiting and maintenance on a weekly basis. Across the project site, additional measures are being instituted to redouble efforts related to food garbage control, including the provision of additional garbage containers. In addition, baiting stations have been or will be inspected to confirm operation and repaired or relocated as needed. .

Work outside the Fence

- Permits have been secured for the portions of the street immediately adjacent to the "Tip" of the project area. The southern eastbound lane of Atlantic Avenue continues to be taken behind an expanded MPT in order to facilitate the water main installation. This expanded MPT, noted above, has been approved by DOT.

Concrete

- Reinforced concrete work is now complete and only minor work remains at the sub-passageway floors.

Transit Canopy

- The steel and concrete roof for the canopy is now complete along with the spray fireproofing. The contour slab has been completed. Work continues on the roofing.

  Tile work is underway. The steel stair nosings and stair tile work at the main entrance stair will follow the completion of the MEP work, painting and canopy ceiling installation. MEP work will progress over the next 2 months and will be followed by the canopy ceiling.

Elevator/Escalator

- The two new escalator trusses from the fare array area to the new plaza have been set and final assembly continues. Electrical and fire protection work at the escalator trusses is now complete. The new elevator enclosure has also been erected and elevator installation continues. Work activities have been resequenced to accommodate canopy work items.

Waterproofing

- Waterproofing for the station is now substantially complete. Minor punch list work is in progress.

Erection of Interior Walls

Masonry work is now substantially complete and minor work remains.

Mechanical, Electrical & Plumbing

- Mechanical, electrical and plumbing work within the subway station below ground is underway to accommodate the new station configuration. Work continues in the new utility rooms under the main staircase.

Track Outages (General Orders)

- IRT and BMT Tunnel inspections have taken place and the tunnel repair work is now substantially complete in both the IRT and BMT tunnels. Minor repair and cleanup work will occur on selective evenings under scheduled NYCT flagging protection.

What's Happening in the Rail Yard

Deliveries

- Posillico/Tully will continue to receive deliveries of material for the yard and CAB construction.

Rodent Control Measures Taken

- McKissack has implemented an ongoing rodent control plan which is being monitored weekly. There are over 166 bait stations laid in this area and on Block 1129. Across the site, additional measures are being instituted to redouble efforts related to food garbage control, including the provision of additional garbage containers. In addition, baiting stations have been or will be inspected to confirm operation and repaired or relocated as needed..

East Lead Track Foundation

- The forming and pouring of the foundations and retaining walls for the East Lead Track will continue the next few months. Work on the new Lead Track retaining wall will continue in approximately 200 foot sections until the foundation and walls are completed. All of this work is located within Block 1121 adjacent to the Car Shop.

Drainage System

- Posillico/Tully is working from west to east to install deep drainage piping in the yard. They will also continue excavation for the associated stormwater manholes. This work will be ongoing for the next 2 months. Through this period, Retention Basins "A", "B" and "D" have been completed and back-filled. Work will now move to Basin "C".

Electrical Ducts and Manholes

- Conduit formwork continues to be placed throughout the yard for underground electrical duct banks (for both train traction power and signal). Precast manholes continue to be placed at multiple locations. This work will continue for several months.

Carlton Ave. Bridge

- MPT has been in place at Carlton Ave. and Pacific Street for work on the new south abutment. Excavation to the subgrade for the South Abutment foundation has been completed and the reinforced concrete footing poured. During this reporting period the contractor will continue to form and install rebar for the stem wall of the new South Abutment. In the event that noisy equipment (i.e. generators) is required to be used at street elevation for this work, then noise attenuation blanketing will be utilized.

- Carlton Avenue and Pacific Street MPT DOT permit is in place and the suspension of parking on the north side of Pacific Street running approximately 100 linear feet from the existing cross walk in a westerly direction is now in effect. . This was done to accommodate the construction of the Carlton Ave. bridge abutment and the associated work on the approach slab and utility connections. As was done previously by direction of the NYCDOT, fliers were distributed and posted 48 hours in advance of the no parking rules going into effect.

- Concrete has been placed at the Pier #2 footing, base and center portion of the stem wall. Concrete placement for the balance of the stem wall will continue this reporting period.

Car Shop

- The forming and pouring of the foundations and retaining walls for the Car Shop will continue the next few months. Work will continue in approximately 200 foot sections until the foundation and walls are completed. All of this work is located within Block 1121 adjacent to the Car Shop.

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East End (former Gasoline Station)

Construction of a tall retaining wall along the Vanderbilt Ave. end of the yard is set to begin once permits have been secured. Work will require that e west southbound traffic lane and adjoining sidewalk be taken out of service when concrete trucks are present from which will be pumped concrete into the wall below.

Schedule Maintenance

- Due to the need to expedite all of this work for overall schedule maintenance, it will be progressed on double shifts during the weekdays along with Saturdays, Sundays & selected holidays.

Yard Lights

- During the week, to facilitate early start and late finish of work, Yard Flood Lights will be turned on at 6am and from dusk to3:00 am, during double shifts through the completion of the Carlton Avenue Bridge replacement, as needed.

Backfill Storage

- In order to work more efficiently within the Yard, excess soil required for backfilling the site has been stockpiled in the lay down area adjacent to Pacific St. in block 1129. The pile has been completely covered with a tarp and additional measures, including the use of wood fiber blocks around the perimeter and gravel at the entrance are being used to prevent run off of soil into Pacific St. The stockpiled soil, which is non-hazardous, is expected to remain in place until mid-April.

Track Work

- Tracks Unlimited has started to deliver ballast material to the west end of the site (B1120) in preparation of the start of track installation in the yard. This work item will continue through the next 3 month period.

Replacement of Adjacent Water Mains and other Utility Work

- On behalf of the DEP, FCRC is managing the installation of a new water trunk main and associated distribution mains on Flatbush and Atlantic Avenues. The work is divided into three stages.

    - Stage One is the work on the west side of Flatbush, north of the Atlantic intersection, continuing across Flatbush to the edge of the transit improvements on the arena block. This is called Stage One because the design of this section was critical to the remaining two stages. The actual installation will follow Stage Two.
    - Stage Two is the work along the south side of Atlantic Ave. from a location just west of the former 5th Avenue bed, running eastward to a location west of the 6th Avenue intersection.
    - Stage Three is the area between Stages One and Two, across Flatbush Avenue and the top of the future new transit station improvements.

  The installation of the new trunk water main in Stage Two on the south side of Atlantic Avenue east of the Fort Greene intersection is complete and has been cleaned, pressurized, inspected and chlorinated.

  Stage One work includes a large trunk main and smaller distribution main. The trunk main is installed. Work on the 20" distribution main is expected to begin in late March and be completed by the end of April. The work is being done at night (10 pm to 6 am) and requires partial closure of the sidewalk and the curb lane of traffic during the work hours. Pavement restoration will be done at that time. The bus stop at the west side of Flatbush, north of Pacific, has been removed by NYC DOT, per the approval of NYCTA.

- Stage Two along Atlantic Avenue between the transit connection work area and 6th Avenue was completed in August.

- Stage Three, which is over a portion of the transit area, began in mid January and will continue for one to two months.

- The sanitary sewer and water taps on Dean Street are complete, inspected, backfilled and paved.

- Stormwater discharge at Flatbush Avenue is complete and approved. Work on the discharge at 6th and Pacific Streets was completed, approved and paved in the last 2-week period. The retention tank and pumping systems connected to the discharge will be inspected and tested during the upcoming two-week period.

- During the course of utility installation work, the contractor may encounter unforeseen contaminants, underground storage tanks or other structures. In the event that this happens and where appropriate, notification will be given to the DEC, VOC monitoring will be continuously performed, and remediation steps will be implemented.

Block 1129 (Carlton, Dean, Vanderbilt, Pacific) – Construction Staging

- FCRC and Hunt have activated a delivery dispatch center here to dispatch all delivery trailers and trucks to the arena site in order to further minimize impacts to the local traffic and pedestrian patterns. This dispatch center will remain in operation during this reporting period.

- Occupancy/Use of the lay down area due south of the 752 Pacific Street office building will continue during this period.

- The utility contractor moved most of its operations from the southeast corner of Block 1129, lot 54 (the corner of Vanderbilt and Dean) to Block 1129, lot 21 (just east of the 752 Pacific Street building and adjacent to Pacific Street) to help mitigate noise impacts to residents. The contractor will continue to make every effort to move the remaining equipment and materials to the new location during daytime work hours.

Traffic Mitigation Site Work

The FEIS requires the construction of certain roadway, sidewalk and traffic signal improvements prior to arena opening to mitigate traffic projected in the area. Work was divided into two seasons – summer/fall 2011 and spring/summer 2012. The details of the work were reviewed with City agencies, Community Boards and the general public.

The first element of the 2011 work included the installation of curb extensions at the Pacific/4th Avenue, Dean/Flatbush and Pacific/Flatbush intersections and the reversal of traffic from westbound to eastbound on Pacific between 4th and Flatbush Avenues, and curb extensions at Pacific/Flatbush, Dean/Flatbush and Pacific/4th. This work is complete.

- Atlantic Avenue Medians

  Work is expected to begin in April 2012 on the remaining traffic mitigation work, most of which is made up of raised medians along Atlantic Avenue from Flatbush Avenue to Vanderbilt Avenue. OCMC is reviewing the scope and location of the medians and will determine whether the work shall be performed during limited daytime, which will prolong the construction period, or at night between 10 pm and 6 am. If the work is done at night, mobile light units will be used to illuminate the work area. The arena block, Carlton Avenue Bridge reconstruction and DDC utility work between Carlton and Vanderbilt Avenues also take lanes out of service. Therefore, the median work must be scheduled block by block to coordinate with the other work schedules and MPT configurations.

Because the work is a few feet directly above the LIRR tunnel into Atlantic Terminal, the means and methods must be reviewed and approved by the LIRR.

Any required nighttime work will be concluded by 6 AM so that related temporary MPT can be removed for the morning rush hour. All long-term MPT will have DOT approval and permits and will be removed when work in the area is completed.

The traffic mitigation work to date required the use of jack hammers to install new conduits for new traffic signals. The remainder of the work is similar and will require jack hammers as well. The upcoming Atlantic Avenue Median work means and methods are being discussed with the LIRR with the goal of performing the pavement removal in a more efficient, rapid way to reduce noise intensity and duration while conforming to LIRR requirements for work in proximity to their facilities.

Arena Site Work

The revised Flatbush Avenue MPT is allowing work to continue on the installation of the Flatbush Avenue façade and the installation of bollards along this same stretch. Part of the overall site work for the arena block, bollard installation, commenced at the intersection of Dean and Flatbush in the area of the southern vents and is continuing north along Flatbush, eventually continuing around the entire block. The bollard work is now substantially complete along Flatbush Avenue. Other work that will be done as part of the site work includes sidewalks, installation of pavers, street furniture, street trees, light and signal poles, way finding signage, hydrants and the canopy to the new subway entrance. Additional detail on the work will be provided as the contractor progresses.

Installation of the underground drainage within the plaza area located at the tip of the site and the plaza located at the corner of Dean Street and 6th Avenue is substantially complete. The balance of the drainage will be completed as the work at the tip of Atlantic and Flatbush is completed in the Spring and Summer. A temporary asphalt working surface has been placed throughout the plaza.MPT along Dean Street and 6th Avenue will be repositioned in accordance with the approved DOT MPT Plan.

Environmental Remediation

- Soil that has been classified as clean, contaminated or hazardous will be removed from the site as part of the excavation activities and brought to appropriate disposal locations.

- Where excavation and soil removing activities occur in areas of known Volatile Organic Compounds (VOC's) (BL 1119, lot 1 & 64, BL 1118, lot 1 and BL 1127, lot 1) VOC monitoring will be performed as required in the Community Air Monitoring Plan ("CAMP") and VOC Best Monitoring Practices documents.

- CAMP monitoring is continuing on all areas of soil disturbance per the project plan, including excavation, grading and demolition.

- During the course of the excavation work, the contractor may encounter unforeseen contaminants, underground storage tanks or other structures. In the event that this happens and where appropriate, notification will be given to DEC, VOC monitoring will be continuously performed while excavating these materials and remediation steps will be implemented.

Maintenance & Protection of Traffic (MPTs) For Your Safety

- MPT continues to be in place along the southern side of Atlantic Avenue between Flatbush & 6th Avenue. The current configuration of this MPT may be adjusted to accommodate the Stage Three work described in "Replacement of Adjacent Water Mains and other Utility Work". This adjustment will result in the expansion of the MPT into the southern eastbound lane of Atlantic Avenue. This expanded MPT is in accordance with previously approved MPT.

- MPT remains in place on the southern side of Atlantic between Carlton & Vanderbilt Avenues. Posillico/Tully has installed car shop roof support columns through openings that were core-drilled in the sidewalk and work continues underneath in the car shop while the roof is temporarily supported from a column-based roof bracing system. This work will take several months. All DOT permits remain in place.

- MPT continues to be in place for the Carlton Avenue Bridge south abutment construction staging from Pacific Street. The exact location is in the intersection of Carlton Avenue & Pacific Street. This is not having an impact on the traffic flow at this intersection.

- MPT currently installed along Flatbush Avenue between Atlantic Avenue and Dean Street is being reconfigured to allow the construction of site work on the Arena Block. MPT will be adjusted during the times outlined below resulting in the following travel lane configuration along Flatbush Avenue:

    - 6 AM TO 10 AM there will be three (3) northbound travel lanes and two (2) southbound lanes;
    - 10 PM to 6 AM there will be four (4) travel lanes, two (2) northbound and two (2) southbound;
    - All other times of the day, there will be three (3) southbound travel lanes and two (2) northbound.

  During overnight work hours (10 PM to 6 AM) the 8' construction fence will be removed and temporary timber barrier will be shifted out into the curbside travel lane to permit site work. The barrier will be removed and the travel lane restored daily in time for morning rush hour. A pedestrian pathway will be maintained along the east side of Flatbush Avenue. However, during night time work hours, 10 PM to 6 AM, the portion of the pathway between 5th Avenue and Dean Streets will be closed and pedestrians will be directed by a flagger (provided by the contractor) to the west side of Flatbush.

- An 80' section of the northern Flatbush Ave. sidewalk west of Dean St. will remain closed during this reporting period while façade installation is underway. This closure is due to agreement between NYCDOB and Hunt.

Please Be Advised of Anticipated Nighttime & Weekend Work

During this reporting period the following work will be performed either at night or during the weekend as noted. All work will be done pursuant to approved permits:

- Long Island Rail Road/Vanderbilt Yard/ Carlton Avenue Bridge:

    - All weekdays all locations in the yard: 6:00AM to 3:00 AM
    - Saturdays as required: 7:00 AM to 12:00 AM, as needed
    - Sundays and Holidays as required: 8:00AM to 12:00AM, as needed
    - The weekend work being performed could be in any area of the yard, and within MPT areas for which permits are on hand.
    - The work hours will remain in place through the completion of the Carlton Avenue Bridge replacement, as needed.

- Arena Site:
    - Arena weekend work will be scheduled no later than close of business on the preceding Thursday, where make-up work due to weather or other delays makes it necessary. Saturday work is expected to continue for this reporting period.
    - Subject to receipt of permits, a second shift shall be continued throughout this reporting period, from 3 – 11 PM, Monday-Friday only. Also subject to receipt of permits, a third shift may be instituted during this reporting period, from 11 PM – 7 AM, Monday –Friday only.
    - Hunt has been granted a permit to allow for deliveries from 6 AM to 7 AM to the Arena site from the dispatch center. This work allows for an additional hour of deliveries to take place outside the neighborhood peak traffic patterns and reduce congestion and interference with the local traffic.
    - The second shift arena contractors are noted within the arena summary above.

- NYC Transit Improvements:
    - Temporary concrete road decking has now been removed. In the future, if any additional work is required it will be performed at night per DOT regulations. Traffic will be restored every morning according to DOT stipulations.

      Work related to the BMT structure and below grade concrete, steel and MEP work may be conducted on Saturdays, March 17rd and 24th, during this reporting period.

- Arena Site Work:
    - Underground utility work may occur within the site at the main plaza. Work will be conducted during the hours of 8 A.M. to 4 P.M., subject to NYCDOB permits.

- Block 1129 – staging area:
    - Contractors conducting night work may have cause to enter and exit this area as it serves as a staging and material/equipment storage area.

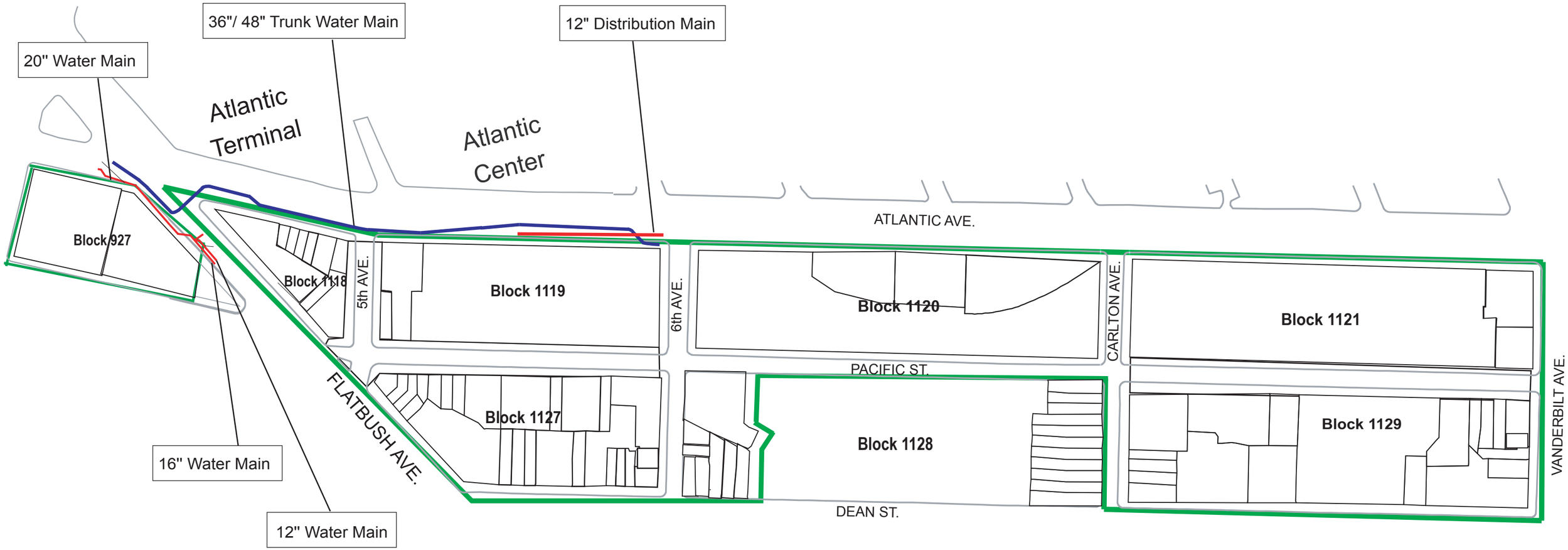
During the course of work, conditions may be encountered at the site which may warrant the need for night and/or weekend work. Work will be done pursuant to approved permits.

How to Reach Our Community Liaison Office (CLO)

Persons seeking access should do so from Carlton Avenue. Both the CLO phone line (866-923-5315) and email (communityliaison@atlanticyards.com) are operational and community residents are encouraged to use both when making inquiries about the project.

Trunk & Water Main

July 2010



36"/ 48" Trunk Water Main

12", 16", & 20" Water Main & 12" Distribution Main