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### 23-041A

January 3, 2011

Ms. Linda Chiarelli, Senior Vice President Deputy Director of Construction Forest City Ratner Companies 1 Metro Tech Center Brooklyn, New York 11201 E-mail: lchiarelli@fcrc.com Mr. Joseph M. Lawlor, Vice President (By Hand)
The Bank of New York Mellon,
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101 Barclay Street, Floor 7W
New York, New York 10286
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Ms. Arana Hankin (By Hand)
New York State Urban Development Corporation
d/b/a Empire State Development Corporation,
as Lease Administrator
633 Third Avenue
New York, New York 10017

E-mail: ahankin@empire.state.ny.us

Re: New Nets Arena

**Barclays Center and Transit Connection** 

**Brooklyn**, New York

Dear Ms. Chiarelli, Mr. Lawlor, and Ms. Hankin:

Enclosed is our Site Observation Report 8 for the referenced project, based on our visit of November 23, 2010. James G. Cockinos, AIA, Senior Associate, performed the observation and prepared the report.

Please refer to **Section II - "Executive Summary"** for a brief overview of the project.

If you have any questions regarding this report, please call.

Very truly yours,

MERRITY & HARRIS, INC.

James G. Cockinos, AIA

Serior Associate

Group Leader Construction Monitoring

JGC:eb Enclosure

cc: Forest City Ratner Companies

Attn: Lauren Du E-mail: ldu@fcrc.com Attn: Jim Lester E-mail: jlester@fcrc.com Attn: Dalia Schwartz E-mail: dschwartz@fcrc.com E-mail: rdeloia@fcrc.com Attn: Rebecca D'Eloia Attn: Rob Tarulli E-mail: rtarulli@fcrc.com E-mail: whoyt@fcrc.com Attn: Winthrop Hoyt Attn: Robin Guiao E-mail: rguiao@fcrc.com E-mail: glowe@fcrc.com Attn: Greg Lowe

# NEW NETS ARENA BARCLAYS CENTER AND TRANSIT CONNECTION BROOKLYN, NEW YORK

### **SITE OBSERVATION REPORT 8**

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### **SECTION I - IDENTIFICATION**

**Project Name** 

and Location: New Nets Arena

**Barclays Center and Transit Connection** 

Brooklyn, New York

**Improvements:** The construction of a new 8-level, approximately 670,000 sq. ft.,

18,103-seat capacity enclosed state-of-the-art sports arena for the National Basketball Association's professional basketball team, the New Jersey Nets, with 105 suites overall. An underground transit connection from the existing subway station to the Arena plaza, and site work (landscaping, trees, sidewalks, bollards, etc.) in front of and surrounding the Arena, in addition to the 4<sup>th</sup>

Avenue reconfiguration are also to be constructed.

**Prepared For:** New York State Urban Development Corporation

d/b/a Empire State Development Corporation, as Lease

Administrator 633 Third Avenue

New York, New York 10017

Arana Hankin

E-mail: ahankin@empire.state.ny.us

The Bank of New York Mellon, as PILOT Bond Trustee

101 Barclay Street, Floor 7W New York, New York 10286 Joseph M. Lawlor, *Vice President* 

E-mail: joseph.lawlor@bnymellon.com

Forest City Ratner Companies

1 Metro Tech Center

Brooklyn, New York 11201

Linda Chiarelli, Senior Vice President Deputy Director of Construction E-mail: lchiarelli@fcrc.com

**Developer:** Brooklyn Events Center, LLC

Forest City Ratner Companies

One Metro Tech North

Brooklyn, New York 11201

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Robin Guiao

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Design/Builder (Arena):

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Indianapolis, Indiana 46241

Jeffrey E. Fisher, Construction Manager

Mobile: 317.513.2566

E-mail: jfisher@huntconstructingroup.com

Scott Hamburg, Senior Project Manager, Vice President

Cell: 917.816.8446

E-mail: scott.hamburg@bovislendlease.com H. Mark Gladden, *Construction Manager* 

Cell: 718.809.9147

E-mail: mgladden@huntconstructiongroup.com

**Architect of Record:** Ellerbe Becket Architects and Engineers, P.C.

> 2380 Mc Gee, Suite 200 Kansas City, Missouri 64108

**Structural Engineers:** Thornton Tomasetti

51 Madison Avenue

New York, New York 10010

Mechanical/Electrical/ **Plumbing/Fire Protection** 

WSP Flack + Kurtz **Engineers:** 

512 7<sup>th</sup> Avenue

New York, New York 10018

**Building Codes/Life Safety:** FP&C Consultants

One Ward Parkway

Kansas City, Missouri 64112

**Seismic Engineers:** Mueser Rutledge Consulting Engineers

14 Penn Plaza - 225 West 34<sup>th</sup> Street

New York, New York 10122

**Arena Design Architects:** SHoP Architects, P.C.

> 11 Park Place Penthouse New York, New York 10007

Stantec Consulting Services, Inc. **Civil Engineers:** 50 West 23<sup>rd</sup> Street, 8<sup>th</sup> Floor (Site Work Design)

New York, New York 10010

**Construction Manager** 

(Transit Connection): **Turner Construction Company** 

375 Hudson Street, 6<sup>th</sup> Floor New York, New York 10014

Rick Salaway, Senior Project Manager

212.229.6000 Phone: E-mail: rsalaway@tcco.com

Chuck Baldwin, LEED AP, Project Manager

212.229.6000 Phone: Mobile: 603.944.3474 E-mail: cbaldwin@tcco.com

**Construction Site** 

**Telephone:** 718.789.1100

Observation and

Report By: James G. Cockinos, AIA, Senior Associate

**Present During** 

Site Observation: Forest City Ratner Companies

James Lester Rob Tarulli Greg Lowe

Eileen Weingarten Rebecca D'Eloia Jennifer Dominguez, Sherveen Baftechi,

Lauren Du Linda Chiarelli,

Hunt Construction H. Mark Gladden Jon Anthony Scott Hamburg

**Date of Site** 

**Observation:** November 23, 2010

**Date of Previous** 

**Site Observation:** October 28, 2010

**Date of Draft** 

**Review:** December 1, 2010

**Date of Next** 

**Site Observation:** December 21, 2010

### **SECTION II - EXECUTIVE SUMMARY**

This section is intended to be a brief overview of the project, based on our current site visit. Please read the report in its entirety for a complete understanding of our comments and opinions as presented herein.

### Conformance to Plans and Specifications and Workmanship

Construction Documents (Drawing Volumes 1 - 6, Specification Volumes 1 - 3) marked "Not for Construction," dated July 31, 2009, were provided for our review; 60% CD drawings, dated to include the Arena façade have been made available. The CD drawings for pricing, dated August 13, 2010, have been made available as of August 18, 2010.

The 100% Construction Documents, dated October 15, 2010, have been submitted.

Revisions and additions in the Arena to support enhancements in program, services, MEP infrastructure and interior finishes along with comments received by the Design Architect, the Developer, and the NBA are to be incorporated into the Construction Documents and an updated set will be submitted by December 22, 2010.

Mass Transit Improvement documents (plans and specifications Volumes 1 - 5) labeled "90% Submission," dated August 28, 2009, were provided for our review. The updated Construction Documents marked "100% – Final Modifications," dated April 8, 2010, with Addendums 1- 7 have been submitted.

The work is proceeding in general accordance with the plans, specifications, and other pertinent documents that we have reviewed to date.

The overall quality of workmanship is good.

### **Summary of Hunt GMP Costs**

### **Arena**

The following summary is based upon the General Contractor's Application and Certificate for Payment 11, covering the period through November 30, 2010:

Current Contract Value (Design/Build with GMP)		\$470,587,594
Total Work Completed and Stored to Date	12.8%	\$ 60,343,998
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 6,216,387 *

\* Current Payment Due includes Hard Costs (\$4,712,497), GC/CM Fee (\$1,095,219), and associated A/E Soft Costs (\$408,671)

In our opinion, the remaining Contract Value funds of \$410,243,596 (net of retainage), together with the remaining Developer's Arena Design/Scope Contingency, are sufficient to complete the work as it is currently defined.

The Guaranteed Maximum Price (GMP) was based on the "Scope Set" drawings, dated July 31, 2009.

### **Transit Connection**

The following summary is based upon the General Contractor's Application and Certificate for Payment 4, covering the period through November 30, 2010:

Current Contract Value (Lump Sum)		\$52,560,173
Total Work Completed and Stored to Date	18.0%	\$ 9,474,798
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 3,092,440

In our opinion, the remaining Contract Value funds of \$43,085,375 and the Developer's Design/Scope Contingency are sufficient to complete the work as it is currently defined.

### **Summary of Total Project Hard Costs:**

<b>Description</b>	<u>Budget</u>	Previously Completed	Current <u>Request</u>	Total <u>Completed</u>	% Complete	Remaining <u>Balance</u>
Arena	\$503,956,625	\$68,622,268	\$6,012,164 *	\$74,634,432	14.8	\$429,322,193
Transit Connection	66,507,554	8,703,619	3,102,162	11,805,781	17.8	54,701,773
Arena Site Work	20,143,349	363,610	(848)	362,762	1.8	19,780,587
Arena Mitigation	2,685,886	80,690	0	80,690	3.0	2,605,196
Totals	\$593,293,414	\$77,770,187	\$9,113,478	\$86,883,665	14.6%	\$506,409,749

The \$9,113,478 being requested for these line items under the Requisition, covering November 2010, was reviewed by our office and found to be reasonable.

### **Summary of Total Project Soft Costs**

The following summary is based upon the Developer's Application and Certificate for Payment 8, covering the period through November 30, 2010:

Current Revised Budget		\$186,843,254
Total Amount Incurred to Date	84.1%	\$157,057,438
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 3,325,487

<sup>\*</sup> Current Request is part of the Hunt Construction Design-Build contract and includes the trades, GC/CM Fee Costs, and miscellaneous other Hard Costs.

The overall Soft Cost budget includes the following Soft Cost related items:

Description	Budget	Previously <u>Completed</u>	Current <u>Request</u>	Total <u>Completed</u>	% <u>Complete</u>	Remaining <u>Balance</u>
Arena	\$177,551,264	\$147,324,794	\$2,799,724	\$150,124,518	84.6	\$27,426,746
Transit Connection	5,461,197	3,378,367	376,223	3,754,590	68.8	1,706,607
Arena Site Work	3,784,332	2,999,339	149,540	3,148,879	83.2	635,453
Arena Mitigation	46,461	29,451	0	29,451	63.4	17,010
Totals	\$186,843,254	\$153,731,951	\$3,325,487	\$157,057,438	84.1	\$29,785,816

The \$3,325,487, being requested for these line items under the Developer's Requisition, covering November 2010, was reviewed by our office and found to be reasonable.

In our opinion, the remaining budget funds of \$29,785,816, which include the remaining Development Contingency are sufficient to complete the work as it is currently defined.

Additional costs not included within the Hard or Soft Cost Requisition include the following:

<b>Description</b>	<u>Budget</u>	Previously <u>Completed</u>	Current <u>Request</u>	Total <u>Completed</u>	% <u>Complete</u>	Remaining <u>Balance</u>
Accounts Payable (AP) Financing	\$ 4,950,367 <sup>(1)</sup> 29,715,483 <sup>(2)</sup>	\$ 4,591,531 29,713,221	\$ (7,309) 0	\$ 4,584,222 29,713,221	92.6 99.9	\$366,145 2,262
Totals	\$34,665,850	\$34,304,752	\$(7,309)	\$ 34,297,443	98.9	\$ 368,407

<sup>(1)</sup> Costs incurred prior to closing

### **Summaries of Recommended Payment Due**

<b>Description</b>	Amount
Hard Costs - Arena	\$6,012,163.90
Hard Costs - Transit Connection	3,102,161.82
Hard Cost - Site Work	(847.50)
Soft Costs	3,325,486.29
Accounts Payable (AP)	(7,309.72)
Financing	0.00
Total	\$12,431,654.79

<sup>(2)</sup> Costs of financing

### **Scheduled Completion**

A High Level Arena Summary Construction Schedule, dated July 16, 2010, has been provided for our review. The current schedule, prepared by Hunt, indicates that substantial completion is anticipated to be by August 12, 2012. The Developer is currently reviewing that schedule and there is a meeting anticipated for mid-December to resolve current schedule disputes.

An early substantial completion date of June 1, 2012, has been established with the following criteria to be met:

- a. Owner may use and occupy the Arena
- b. Only punch list items remain
- c. The Architect of Record has issued a Certificate of Substantial Completion
- d. A TCO has been issued

Punch list work and Subcontractor close-outs may extend the construction term to a final completion date of February 28, 2013.

Based on our computerized progress chart which compares the cash flow amount to the projected construction progress, the project is currently slightly ahead of schedule.

### **Open Issues/Comments**

No new issues have been discussed this period.

### **Resolved Issues**

- 4.1 The following construction items are not critical in nature and are noted for monitoring purposes:
  - 3. Stress crack on grade beam

Resolved: The stress crack on the grade beam has been repaved

### **SECTION III - PROJECT SCOPE**

The following description is distilled from our Project Review Report, dated November 30, 2009, and is a snapshot of the project scope at that time. A more detailed description of the project scope is contained in our Project Review Report.

The Atlantic Yard Project will consist of the redevelopment of 6 full and 2 partial City Tax blocks including the Metropolitan Transportation Authority (MTA) bus yard and the Long Island Rail Road (LIRR) Vanderbilt rail yard in the Prospect Heights section of Brooklyn, New York.

The site for the proposed arena project is located at the intersection of Flatbush and Atlantic Avenues.

The proposed project will entail the construction of a new 8-level, approximately 670,000 sq. ft., 18,103-seat capacity enclosed state-of-the-art sports arena for the National Basketball Association's professional basketball team, the *Nets*, with 105 suites overall. The arena will also be used for hockey, concert events, and other theatrical presentations.

The arena will consist of 8 levels (Event, Mezzanine, Main Concourse, Lower Suite, Upper Concourse, Mechanical Mezzanine, and Catwalk Levels) surrounding 2 structured octagonal-shaped seating bowls (lower and upper).

TV truck parking, loading dock facilities, and trash docks will be located on the east and southeast, as well as a central security command center, a truck turntable, and 2 truck elevators at the southeast corner of the level. A flight of stairs on this corner of the level leads up to a small mezzanine which will contain the electrical switchgear room and several electrical compartments. Press work and dining facilities will be located on the northeast corner.

The foundations will be individual, reinforced concrete, spread column footings, grade beams, continuous strip wall footings, foundation walls, elevator pits, pool pits, turntable pit, and truck elevator pit.

Typical floors will consist of concrete fill, reinforced with #4 or #6 bars at 12" on center, bottom and top bars parallel to the span and #4 or #6 bars at 12" on center top perpendicular to the span, on 3"-deep, 18-or 20-gauge composite steel floor deck. The slabs will have a total thicknesses of 5½", 7½", are 12". They will be supported on rolled-shape structural steel floor beams, girders, and columns. Beams and girders will be provided with welded, headed, shear studs for composite action. Rolled-shape structural steel columns will support the girders and transfer gravity (vertical) loads to the foundation. The girders, columns, and bracing members comprise the braced bents.

A central heating plant will consists of 2 natural gas-fired 400 BHP water tube boilers (Unilux as standard). The heating hot water will be distributed using these 680-gpm circulating pumps (1 is a standby) to serve the arena. The hot water supply and return piping will run horizontally to the service corridor in the Event Level. This main will split into 2 supply and return branch main pipes. One set will serve Quadrants A and D, and the other set will serve Quadrants B and C, to feed AHUs in the respective quadrants.

Three 1,000-ton cooling towers (BAC as standard), totaling 3,000 tons, will be installed on the practice court roof. The cooling towers are sized to include a capacity of 300 tons for the Ice Floor Refrigeration Plant. The central condenser water system will provide sand filter filtration and chemical treatment systems.

A waterside economizer system will be installed that consists of a Plate and Frame Heat Exchanger and pumps. Indirect water circulation of the chilled water and condenser water will provide 1,200 tons of cooling capacity when ambient temperatures are appropriate to affect economizer cooling.

Three 900-ton centrifugal chillers (York as standard) for a total of 2,700 tons of cooling will be installed.

The Arena Bowl and Suites will be heated and cooled by 4 VAV draw-through AHUs and VAV boxes, to be supplied with chilled water and heating hot water by a central chilled water and heating hot water plant. Other areas will be provided with DX AC units, HVAC units, fan coil units, cabinet unit heaters, unit heaters, and H & V units exhaust, return, and pressurization fans are installed. The units will be installed in the Upper Mezzanine Mechanical Equipment Room. Each unit will deliver 90,000 CFM of conditioned air that will be distributed utilizing a main loop duct installed adjacent to the catwalk, and with drum louvers mounted on vertical plenum ducts.

Five combined storm and sanitary house sewers will exit the project to connect into the city combined sewer system (four 15" and one 10" combined sewers).

Roof drains will collect the storm water, conducted down in 4 leaders to drain into 3 below-ground storm retention tanks (by others). Tank overflow lines will be piped to the sewer system. A duplex storm water discharge pump will be installed in Quadrant A retention tank and a triplex pump set will be installed in the B/A retention tank that will discharge overflow storm water to the combined sewer system.

The sanitary system will include toilet facilities, saunas, hydrotherapy rooms, kitchens, concessions, prep areas, truck docks, and floor drains in mechanical spaces, laundry areas, locker rooms, bathrooms, and other areas. A duplex ejector pump set will be installed in the mechanical room pit, located under hydro and whirlpool rooms. Waste from the kitchens and food concessions will drain into grease interceptors, and then into the building sanitary system. Sanitary waste from the building will be gathered at the Event Level and will leave the building at 5 locations to connect into the street combined sewers.

A 6" water service from Flatbush Avenue will enter into Quadrant E, equipped with a water meter and double check valve backflow preventer assembly. It will supply water to a 5,000-gal. steel suction tank. Domestic water to the project will be pressure boosted by a quadruplex pump set.

An existing electric utility vault exists at the property line that is available for possible future utility transformers is installed by the utility company. Electric service will be provided by 265/460-volt, 3-phase, 4-wire secondary power to the arena. Four metered main service switchboards, each rated at 4,000-amperes will serve the project.

The Arena Event Sports lighting will be served from 2 dedicated risers. The power will be distributed to 4 locations on the catwalk to 1,000-watt clear metal halide sports lighting fixtures mounted on the catwalk handrails and capable of achieving temporary "blackout" by means of a shutter system without extinguishing the lamp. Emergency power will be provided in addition to the normal Event Lighting Power to supply 20% of the arena lighting fixtures and 50% of aisle light fixtures for emergency egress lighting. Arena aisle lighting will be theatrical 575-watt incandescent fixtures, with rotating shutter assembly, mounted on the catwalk handrails.

Automatic sprinklers will provide protection in all areas of the building with the exception of the seating bowl. The main building will be separated into 4 sprinkler zones on each floor level. Each automatic sprinkler zone control station will include a zone isolation valve with tamper switch, check valve, flow control switch, pressure gauge, and test and drain assembly.

There will be a combination fire standpipe/sprinkler standpipes for the 4 zones fed from a 6" fire protection loop at Event Level 1.

A 90 psi, 1,000-gpm, electric-powered fire pump and an electric jockey pump will supply a 6" fire protection water loop routed around the ceiling of Event Level 1 to supply water to combination standpipes in each of the 4 stair towers of the building.

A diesel generator supplies emergency power to the life safety circuits will include: fire alarm system, smoke exhaust and supply fans, elevators, 1 elevator in each bank at a time, fire and jockey pumps; arena air handling units, emergency and exit lights, stair pressurization fans and boilers.

The energy management system for the Arena will be a microprocessor-based, direct digital control (DDC), building management system. It will monitor, control, and optimize the operation of the HVAC system. The system is the main system for the arena Block complex and will control and monitor distributed subpanels located in each of the 4 towers and central plant. The system head end will be located in the Engineer's office in the arena.

### **Transit Connection**

The work will consist of the construction of the MTA's new Transit Hub Entry, a new below-grade Control Area with back-of-house support facilities, and new connections to both existing IRT (2, 3, 4, 5) and BMT lines (B, Q), as well as renovation of existing platforms, new and/or refurbishment of support facilities and stairs along the affected platforms. Work will also include relocation and restructuring of existing subway vents.

### **SECTION IV - CONSTRUCTION STATUS**

Work was active at the time of our site observation and appeared to be proceeding in a good and workmanlike manner, in general accordance with the plans, specifications, and all pertinent documents reviewed to date.

Items previously reported as generally completed have been removed from this section. The following progress in construction was observed this period:

### **General Conditions**

The General Contractor has mobilized its office across from the site. Protective plywood and chain-link fencing, gates, barricades, concrete barriers, and traffic signage are in place. Mobile cranes, tie-back, and pile driving equipment are on site.

The soil erosion control and stabilization of the construction entrance are in place.

### Excavation

Bulk excavation is well advanced at the southeast corner of 6<sup>th</sup> Avenue Bridge and Pacific Street continuing along Flatbush Avenue and extending to the southwest area of the site. Steel H-sections have been driven with plywood shoring at the east wall of the site. The tie-back operation is substantially complete along the sheeting and shoring wall at the east portion of the site and extending along the Atlantic Avenue retaining wall, and continuing to the west perimeter (5<sup>th</sup> Avenue). The support of excavation which includes walers and H-section cross bracing abutting the existing MTA subway and LIRR tracks is well advanced at the west end of the Dean Avenue perimeter wall.

A temporary earth ramp has been formed off the existing retaining wall for construction access.

The removal and transport of the contaminated soils is substantially completed.

### Concrete

Interior footing formwork with rebar placement is underway within Column Lines C, D, E, and F, with the "truss-support" footings at Lines 1 and 44 in progress. Concrete pours of the perimeter footings are complete at Atlantic Avenue and are proceeding along the southeast wall of the Flatbush Avenue elevation.

Anchor bolts and steel embeds/clips are incorporated within the formwork and concrete pours.

Formwork and reinforcing are continuing to be set in place for the foundation walls along Flatbush Avenue, with concrete poured along the Atlantic Avenue walls and extending east on Flatbush Avenue.

Underpinning was installed at the Flatbush Avenue wall abutting the MTA structure.

The concrete pours for the west retention tank are complete with waterproofing and backfilling underway.

### Structural Steel

Shop and erection drawings, anchor bolt and embed drawings, connection design and engineering are well advanced. Deliveries of the structural steel began on November 20, 2010, with several columns installed.

### **Façade**

System engineering and design, shop drawings, and calculations are continuing by the Subcontractor. Coordination and detailing are ongoing between all Professionals of Record with the Subcontractor (ASI). A performance mock-up was constructed and the testing was observed by FCRC personnel at the manufacturer's plant, with the results forthcoming.

### **Plumbing**

The equalizer piping line between the east and west storm retention tanks has been installed.

### **Electrical**

Temporary power is currently servicing the site.

Underground electrical conduit rough-in is underway for the duct banks.

### **Transit Connection**

Excavation of the proposed connection is ongoing with bracing columns installed against the street wall.

Piles have been driven within the excavated areas.

The test pile has been completed and according to the General Contractor, the results have been deemed successful and approved by the Engineer of Record.

### SECTION V - DOCUMENTS, TESTS, CERTIFICATIONS, AND PERMITS

Our office has reviewed all of the following documents and found them to be satisfactorily complete, in order, and in general conformance with the contract requirements.

Please note that Merritt & Harris does not perform consulting relating to asbestos or hazardous materials, claims no expertise in these areas, and can assume no liability for the work opinions, or reports of any independent consulting firms engaged to do so.

### **Documents**

Our office has reviewed the plans and specifications labeled "Scope Set," dated September 31, 2009, and is presently reviewing the 100% CO Prelim - Advance Procurement Drawings, dated August 13, 2010.

The Mass Transit Improvement documents (Plans and Specifications, Volumes 1 - 5) labeled 90% submission, dated August 28, 2009, were provided for our review.

The following documents were made available this period:

- 1. General Contractor's Application and Certificate for Payment 11 (Arena), for the period ending November 30, 2010
- 2. General Contractor's Application and Certificate for Payment 4 (Transit Connection), for the period ending November 30, 2010
- 3. Developer's Requisition Summary 7 for November 2010
- 4. General Contractor's Monthly Report for November 2010

### **Tests**

The following test reports were reviewed to date:

- 1. AEL Atlantic Engineering Laboratories of New York, Inc. Reports:
  - a. Concrete Compressive Strength Report, dated June 16 September 30, 2010
  - b. Soil Compaction Test Reports, dated June 21 September 24, 2010
  - c. Daily Field Reports, dated June 16 August 12, 2010
  - d. Concrete Plant Inspection Daily Reports, dated June 16 September 23, 2010
  - e. Structural Steel Field Inspection Reports, dated July 23 September 13, 2010
  - f. Wall Embed Installation Report, dated August 4 September 22, 2010
  - g. Soils Reports, dated July 6 August 28, 2010
  - h. Sieve & Proctor Reports, dated July 13, 2010
  - i. Pull test Reports (Epoxy Rebars), dated July 8, 2010
  - j. Shoring of Excavation Reports, dated July 23 August 3, 2010
  - k. Structural Steel Shop Inspection Reports, dated July 1 September 24, 2010
- 2. Langan Engineering & Environmental Services:
  - a. Geotechnical Site Inspection Reports, dated October 4 October 8, 2010

We have reviewed all test reports that were made available to us. Since some reports may be missing from the on-site files, our office is also relying on the Deficiency Logs and Monthly Certification from the Professionals of Record to certify that the work in place is in accordance with the construction documents.

### **Certifications**

- 1. Architect's Certificate for Payment 11 (Arena) (AIA Document G702 Application and Certificate for Payment), covering the period through November 30, 2010.
- 2. Architect's Certificate for Payment 4 (Transit Connection) (AIA Document G702 Application and Certificate for Payment), covering the period through November 30, 2010.
- 3. Test Pile Acceptance Letter, dated November 17, 2010 from Heller and Johnsen, Geotechnical Engineering Consultants, for the Transit Connection.

### **Permits**

The following major Building Permits have been received to date:

1. New York City Department of Buildings:

<u>Permit</u>	<u>Description</u>	<b>Issued</b>	<b>Expires</b>
a. 320135493-01-EQ-FN	Alt. Type 2 - Construction Equipment - Fence	09/02/10	09/01/11
b. 320140682-01-EW-OT	Alt. Type 2 - Foundation	11/22/10	09/01/11
c. 320140682-02-EW-OT	At. Type 2 - Sheet/Shor/Brac	11/22/10	09/01/11
d. 320145856-01-EQ-OT	Alt. Type 3 - Construction Equipment - Other	04/13/10	04/01/11
e. 320162266-01-EQ-FN	Alt. Type 2 - Construction Equipment - Fence	05/14/10	11/01/10
f. 320148782-01-EW-OT	Alt. Type 2 - Sheet/Shor/Brac - Concrete Work not authorized - Concrete Placement Formwork, Steel Reinforcing not permitted	11/22/10	09/01/11
g. 320100234-01-FO	New Building	11/22/10	09/01/11
h. B328732	Electrical Work Permit Descriptions 1 and 6	06/30/10	06/30/13
i. 320100234-01-FO-EA	New Building - Earthwork Review for Zoning	11/22/10	09/01/11
j. 320100234-04-PL	New Building - Plumbing - Partial Underground Piping	07/20/10	07/20/11
k. CN595-10	CD4: Tower & Mobile Crane/Derrick/Mast Climber/Pile Driver On-Site Inspection Application/Certificate	09/29/10	09/29/11
i. 320100234-01-NB	New Building	11/22/10	09/01/11
m. 320100234-01-EQ-FN	Construction Fence	11/22/10	09/01/11

- 2. New York City Department of Transportation:
  - a. DOT Permit 04-2010281-058
  - b. DOT Permits 02-2010280-079 114
  - c. DOT Permits 02-201019486 103

### SECTION VI - CONTRACTS AND BONDS

### **General Contracts**

### Arena

Design/Build with Guaranteed Maximum Price (GMP) Agreement between the Developer and Hunt Construction Group Inc., dated December 28, 2009, for the Arena only with attached:

- Exhibit A GMP Documents
- Exhibit B Subcontractor Performance and Payment Bond
- Exhibit C Schedule of Values
- Exhibit D Change Order Form
- Exhibit E Final Release and Affidavit
- Exhibit F Not Used
- Exhibit G Lien Waiver
- Exhibit H Owner's Insurance
- Exhibit I Design/Builder's Insurance
- Exhibit J Affirmative Action/Community Benefits/Economic Development Requirements
- Exhibit K Scope of Design Phase Services
- Exhibit L Scope of Construction Phase Services
- Exhibit M Not Used
- Exhibit N Supplemental Conditions Project Sponsor Requirements
- Exhibit O Arena Schedule
- Exhibit P Owner's Construction Phasing Schedule
- Exhibit Q Owner's Financing Plan
- Exhibit R Survey
- Exhibit S Letter of Credit
- Exhibit T Form of Consent to Assignment
- Exhibit U Forms of Architect Certification, amounting to \$484,594,525 has not been executed.

A 50/50 savings clause subject to a cap of \$5,000,000 is included between the Developer and the Contractor.

### **Transit Connection**

A Guaranteed Maximum Price (GMP) Agreement between the Developer and John Civetta & Sons, Inc., for the amount of \$50,581,000 has been received.

### **Subcontracts**

According to Mr. Fisher and Mr. Hamburg, the Hunt Construction Subcontracts are now approximately 68% contracted and is within budget. No major overruns are currently being anticipated.

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The following executed subcontracts have been made available to date:

		General Contractor's	Subcontract
<b>Subcontractor</b>	Trade Description	<b>Original Budget</b>	<b>Amount</b>
Almar Plumbing	Plumbing	\$14,990,000	\$14,758,000
American Stair	Steel Stairs	4,601,366	2,029,695
ASI Limited	Exterior Façade	39,194,310	32,411,211
ASM	HVAC/BMS	43,350,000	43,250,000
Banker Steel	Structural Steel	50,344,722 *	51,450,673
Banker Steel	Structural Precast	8,279,500	5,920,560
Cimco	Ice rink	3,400,600	3,450,600
Commodore	Structure Concrete	9,070,000	9,070,000
E-J/ERMCO	Electrical	46,511,724	46,231,954
H-Mak	Food Service	10,825,000	9,305,000
Hydro Worx Int'l	Aquatic Therapy Pools	527,500	337,500
J.E. Thompson	Truck Elevators & Turntable	1,572,000	724,000
LaQuila Group	Excavation, Foundation	28,900,000	27,500,000
MFM Contracting	Utility Improvements	39,536	39,536
Otis Elevators	Elevator & Escalators	6,847,250	5,500,000
Staging Concepts	Ornamental Metal	2,701,518	3,232,367
United Hoisting	Fencing	1,510,000	470,900
United Hoisting	Fencing	0	776,210
	Totals	\$272,665,026	\$256,458,206

<sup>\*</sup> Difference between the budgeted amount and the contract amount has been reallocated from the façade allowance.

Note that the contract amounts may not, in all cases, represent the total costs of the individual line items, i.e., Internal Change Orders are not included in the subcontract amounts. Note that the preceding table does not include General Conditions and the Contractor's Fee.

### **Contractor's Contingency Reserve**

The General Contractor's Contingency Reserve balance currently stands at \$19,579,350.

### **Bonds**

Based on the Design/Build Agreement, the General Contractor will not need to be bonded while all Subcontractors must be bonded. Based on the Hunt Construction's contract, all Subcontractors will be bonded in an amount equal to its subcontract price, naming the Developer and General Contractor as co-obligees.

The following Payment and Performance Bonds have been made available to date:

<u>Subcontractor</u>	<u>Trade</u>
LaQuila Group	Excavation, Foundations
United Hoisting	Fencing
Banker Steel	Structural Steel
ASI Limited	Exterior Façade
E-J/ERMCO	Electrical
Commodore Construction	Superstructure Concrete
MFM Contracting	<b>Utility Improvements</b>

Note that the subcontracts for "material only" shall not be required to be bonded.

All Subcontractors shall be enrolled in the OCIP Program, as their contracts are executed. A trust fund in the amount of \$7,100,000 has been established with the Bank of New York. EJ/ERMCO JV (Electrical) enrollment in the OCIP Program will be limited to the General Liability (GL) coverage only. ASM Mechanical is excluded from the OCIP and will provide traditional insurance.

### SECTION VII - CHANGE ORDERS AND PENDING CHANGE ORDERS

### **Change Orders**

### **Arena**

Change Orders 43 - 52, totaling a credit of \$60,879, were provided this period and are included in the following list of executed Change Orders that have been made available:

<u>co</u>	<u>Amount</u>	<u>Description</u>
1	\$ 0	Budget transfer from Division 17 (Technology) to 16 (Electrical) for low voltage scope of work.
2	(895,700)	OCIP Deduct - Banker Steel
3	0	Structural quantities matrix; credits site security credit
4	(1,770,921)	OCIP Deduct - Laquila
5	(220,000)	OCIP deduct - Almar Plumbing
6	57,316	Bus Ramp Design
7	(29,500)	Design Credit for wind and falling ice
8	2,928	Hockey Sightline Study
9	249,994	Updated Construction Fence from chain link to plywood
10	0	Fence around Lot 21 during demolition
11	0	Structural precast concrete award assigned to Banker Steel
12	506,780	Fence upgrades
13	0	Disposal of on-site contaminated excavated materials - \$7,746,950
14	(53,162)	OCIP Deduct - Otis Elevator
15	(1,066,100)	OCIP Deduct - ASI Ltd.
16*	0	Clarification Reconciliation of CCE/GMP Contract Values - (\$8,839,018)
		credit
17	(153,200)	OCIP Deduct - H-Mak
18	(20,916)	OCIP Deduct - American Stair
19	47,426	Construction Fence Upgrades - General Condition and CM Fee only
20	75,000	Relocate Con Edison Network Room
21	0	Reconciliation of previous OCO 1 - 20
22	0	Super Hazmat Material Trucking (Environmental Budget)
23	0	Façade Allowance to ASI for Signage - Budget Transfer
24	(435,000)	Early Payment Credit to ASI
25	(125,760)	United Hoist Phase 2 OCIP - Demo portion - \$5,240
26	(455,625)	OCIP Deduct EJ/Ermco
27	(5,000)	JE Thompson OCIP Deduct
28	(79,888)	Staging Concept OCIP Deduct
29	0	Site Security - G.C. Transfer
30	(279,000)	Commodore OCIP Deduct
31	(692,721)	Deduct Food Carts from H Mak scope
32	29,243	Design Elevator Hoistway
33	0	Hunt Laquila Haz & super Haz Disposal
34	3,120	Design Con Ed Network Rev Rm Layout
35	0	Partial September Reconciliation
36	61,795	Add Pass thru Window with Heat Lamp
37	20,099	Per DOT/BOB

<u>CO</u>	<b>Amount</b>	<u>Description</u>
38	\$ 0	Partial September Reconciliation
39	0	Budget Transfer for Laquila SCO-8
40	0	Budget Transfer Civetta from excav to COW GC
41	0	Budget Transfer from site requisition to United Fence \$3,147,367
42	0	Budget Transfer Temps site to MFM Contract \$3,147,367
43	21,005	Additional SOE for Con Ed Vault
44	23,077	Additional Engineering to Previous SOE Plans
45	16,797	OT work in prep for Owner Visit
46	0	Budget Transfer Install of 1 <sup>st</sup> Phase of Crane Pad
47	0	Budget Transfer EJ Ermco Generator enclosure
48	0	Budget transfer Laquila PPE Mobil Lot
49	0	Budget Transfer Laquila Lay Down Area Bank
50	0	Budget Transfer United Hoist Phase II Sidewalk Br.
51	0	FCRC Void Change Order
52	0	Budget Transfer COW GC Mockups
	(\$5,167,913)	Total

<sup>\*</sup> OCO 16 amounting to a credit of \$8,839,018 addresses the costs of the precon services provided by Hunt Construction prior to start of construction and has been deducted from the current budget and total work-in-place.

### **Transit Connection**

Change Orders 1 -4 amounting to \$1,979,173 were provided this period:

<u>CO</u>	<u>Amount</u>	<u>Description</u>
1	\$ 400,000	Civetta – Payment and Performance Bond
2	1,425,000	IRT column and beam Inspection
3	107,745	Debris Removal from BMT mezzanine
4	46,428	MPT work
	\$1,979,173	Total

The preceding Change Orders have been executed by the Developer and General Contractor and we recommend your acceptance of them. The scope of work and dollar amounts appear reasonable. The scope changes do not substantially change the quality of the project. No time extensions to the project are indicated on these Change Orders.

The monies for all Change Orders resulting in the contract value being increased will be made available from the Developer's Contingency.

### **Pending Change Orders**

The Developer's Pending Change Order (PCO) Log, dated November 23, 2010, amounts to \$80,611 for the Arena, and \$524,479 for the Transit Connection.

A Pending Change Order for Hunt Construction for additional General Conditions due to the delayed Notice to Proceed is being reviewed by the Developer.

### **Developer's Hard Cost Contingency Reserve**

The Developer's Total Hard Cost Design/Scope Contingency Reserve balance currently totals \$28,911,748.

### **SECTION VIII - REQUISITION REVIEW**

### **Summary of Hunt GMP Costs**

### **Arena**

The following summary is based upon the General Contractor's Application and Certificates for Payment 11, covering the period through November 30, 2010:

Original Contract (Design/Build with GMP) Adjustments (Less CCE per OCO 16) Adjustments (COs 1 - 52)		\$484,594,525 (8,839,018) (5,167,913)
Revised Contract Budget		\$470,587,594
Work Previously Completed Work Completed This Period	9.7% 1.1%	\$45,830,181 <u>4,972,612</u>
Total Work Completed To Date Off-Site Stored Materials	10.8%	\$50,802,793 <u>9,541,205</u>
Total Work Completed and Stored To Date Less Retainage	12.8%	\$60,343,998 (3,805,981)
Total Completed and Stored Less Retainage Less Previous Payments		\$56,538,017 (50,321,630)
Current Payment Due and Recommended by Merritt & Har	ris, Inc.	\$ 6,216,387 *
Balance to Complete based on Current Contract Value of \$-	470,587,594	\$410,243,596

<sup>\*</sup> Current Payment Due includes Hard Costs (\$4,712,497), GC/CM Fee (\$1,095,219), and associated A/E Soft Costs (\$408,671)

In our opinion, the remaining Contract Value funds of \$414,243,546 (net of retainage), together with the remaining Developer's Arena Design/Scope Contingency, are sufficient to complete the work as it is currently defined.

The GMP budget was based on the "Scope Set" drawings, dated July 31, 2009.

The dollar amounts of each line item were reviewed at the time of our site visit, and the amounts were found to reasonably reflect the percentage of work in place.

### Please note the following:

- 1. The fixed General Conditions will be requisitioned at an amount established under the Payment Schedule with the Developer for the remaining months of the construction term.
- 2. The Cost of Work (COW) General Conditions shall be requisitioned monthly as cost incurred.
- 3. The Design Builder's Fee is a "Base Lump Sum" of \$18,200,000 and will be requisitioned as a percentage of work completed.
- 4. The Ellerbe Becket Design Fees are requisitioned as monthly costs incurred.
- 5. An Imprest Account amounting to \$1,000,000 has been established.
- 6. Retainage will be withheld at a rate of 10% for all Subcontractors, with the exception of subcontracts for materials only, until 50% of their subcontract is completed, with 0% withheld thereafter until completion. Early release of retainage for Subcontractors will be considered at the Developer's discretion.
- 7. This being a GMP contract, complete back-up documentation was made available for our review. No modifications were made to the requested percentages submitted at the time of our site visit.

### **Transit Connection**

The following summary is based upon the General Contractor's Application and Certificate for Payment 4, covering the period through November 30, 2010:

Original Contract (Lump Sum) Adjustment (FC-001- 004)		\$50,581,000 
Current Revised Budget		\$52,560,173
Work Previously Completed Work Completed This Period	11.5% 5.7%	\$ 6,043,747 3,001,661
Total Work Completed To Date Off-Site Stored Materials	17.2%	\$ 9,045,408 429,390
Total Work Completed and Stored To Date Less Retainage	18.0%	\$ 9,474,798 (912,411)
Total Completed and Stored Less Retainage Less Previous Payments	\$ 8,562,387 (5,469,947)	
Current Payment Due and Recommended by Merritt & Harris, In	\$ 3,092,440	
Balance to Completed based on Current Contract Value of \$52,5 (Net of Retainage)	\$ 43,085,375	

In our opinion, the remaining Contract Value funds of \$43,085,375, and the Developer's Design/Scope Contingency, are sufficient to complete the work as it is currently defined.

The dollar amounts of each line item were reviewed at the time of our site visit, and the amounts were found to reasonably reflect the percentage of work in place.

### **Off-Site Stored Materials**

### Arena

The following off-site stored materials amounting to \$9,541,205 represents the current closing inventory:

<u>Trade</u>	<b>Amount</b>	<b>Subcontractor</b>
Structural Steel	\$5,441,705	Bankers Steel Co.
Metal wall panels	2,783,900	ASI Limited
Mechanical	1,300,000	<b>ASM Mechanical</b>
Electrical	15,600	EJ/ERMCO JV
Total	\$9.541.205	

Of the closing inventory amounting to \$9,541,205, the new value of off-site stored materials added this period is \$2,160,905.

### **Transit Connection**

The following off-site stored materials amounting to \$429,390 represents the current closing inventory:

<b>Trade</b>	<u>Amount</u>
Structural Steel	\$429,390

Complete backup documentation was made available for these materials, including the Bills of Sale, Insurance Certificates, and Affidavits. As instructed by you, our office will not be observing the materials stored off site.

### **Summary of Total Project Hard Costs**

The overall Hard Cost budget includes the following hard cost-related items:

<u>Description</u>	<u>Budget</u>	Previously Completed	Current <u>Request</u>	Total <u>Completed</u>	% Complete	Remaining <u>Balance</u>
Arena	\$503,956,625	\$68,622,268	\$6,012,164 *	\$74,634,432	14.8	\$429,322,193
Transit Connection	66,507,554	8,703,619	3,102,162	11,805,781	17.8	54,701,773
Arena Site Work	20,143,349	363,610	(848)	362,762	1.8	19,780,587
Arena Mitigation	2,685,886	80,690	0	80,690	3.0	2,605,196
Totals	\$593,293,414	\$77,770,187	\$9,113,478	\$86,883,665	14.6%	\$506,409,749

The \$9,113,478 being requested for these line items under the Requisition, covering November 2010, was reviewed by our office and found to be reasonable.

### Soft Costs

<u>Description</u>	<u>Budget</u>	Total <u>Completed</u>	Amount <u>Due</u>	Remaining <u>Balance</u>	% <u>Complet</u> <u>e</u>
Architecture and Engineering	\$100,346,749	\$93,484,451	\$846,974	\$6,862,298	93.2
Legal	2,828,180	959,893	25,480	1,868,287	33.9
Development Costs	45,000,000	36,222,780	0	8,777,220	80.5
Project Expenses/Marketing	29,415,305	22,942,994	35,261	6,472,311	78.0
Insurance/Commissioning	6,581,225	3,447,319	2,417,771	3,133,906	52.4
Development Contingency	2,671,795	0	0	<u>2,671,795</u>	0.0
Totals	\$186,843,254	\$157,057,437	\$3,325,486	\$29,785,817	84.1

<sup>\*</sup> Current Request is part of the Hunt Construction Design-Build contract and includes the trades, GC/CM Fee Costs, and other miscellaneous Hard Costs.

Current Revised Budget		\$186,843,254
Total Amount Incurred to Date	84.1%	\$157,057,438
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 3,325,487
Balance Amount based on Budget of \$186,843,254		\$ 29,785,817

### **Soft Cost Related Items**

Description	<b>Budget</b>	Previously <u>Completed</u>	Current <u>Request</u>	Total <u>Completed</u>	% Complete	Remaining Balance
Arena	\$177,551,264	\$147,324,794	\$2,799,724	\$150,124,518	84.6	\$27,426,746
Transit Connection	5,461,197	3,378,367	376,223	3,754,590	68.8	1,706,607
Arena Site Work	3,784,332	2,999,339	149,540	3,148,879	83.2	635,453
Arena Mitigation	46,461	<u>29,451</u>	0	29,451	63.4	17,010
Totals	\$186,843,254	\$153,731,951	\$3,325,487	\$157,057,438	84.1	\$29,785,816

Additional costs not included within the Hard or Soft Cost Requisition include the following:

<u>Description</u>	<u>Budget</u>	Previously Completed	Current <u>Request</u>	Total <u>Completed</u>	% Complete	Remaining <u>Balance</u>
Accounts Payable (AP) Financing	\$ 4,950,367 <sup>(1)</sup> 29,715,483 <sup>(2)</sup>	\$ 4,591,531 29,713,221	\$(7,309) 0	\$ 4,584,222 29,713,221	92.6 99.9	\$366,145 2,262
Totals	\$34,665,850	\$34,304,752	\$(7,309)	\$34,297,443	98.9	\$ 368,407

<sup>(</sup>i) Costs incurred prior to closing

### **Summaries of Recommended Payment Due**

Description		<b>Amount</b>
Hard Costs - Arena	\$	6,012,163.90
Hard Costs - Transit Connection		3,102,161.82
Hard Cost - Site Work		(847.50)
Soft Costs		3,325,486.29
Accounts Payable (AP)		(7,309.72)
Financing		0.00
Total	5	612,431,654.79

<sup>(2)</sup> Costs of financing

### **SECTION IX - LIEN WAIVERS**

The General Contractor's (Arena) Lien Waiver, dated December 1, 2010, amounting to \$50,321,630 including the current payment of \$6,216,387, was made available for our review. The lien waiver amount agrees with the monies requisitioned by the General Contractor through Application and Certificate for Payment 10, covering through November 30, 2010.

The General Contractor's (Transit Connection) Lien Waiver, dated December 7, 2010, amounting to \$2,931,047 including the current payment of \$3,092,440 for the period ending November 30, 2010, was made available.

The following Subcontractors' lien waivers have been made available to date:

	Cumulative	Period
<u>Subcontractor</u>	Amount Paid	<b>Ending</b>
ASI Limited	\$5,790,335	11/30/10
ASM Mechanical	1,381,729	11/30/10
Almar Plumbing	362,824	11/30/10
Banker Steel	6,259,704	11/30/10
E-J/ERMCO	3,032,789	11/30/10
H-Mak	482,706	10/31/10
Hydro Work Int'l	33,750	04/30/10
LaQuila Group	10,113,827	11/30/10
LaQuila Group - Environmental	4,928,983	11/30/10
United Hoisting – Contract 1	664,525	09/30/10
United Hoisting – Contract 2	638,568	10/31/10
MFM Contracting	<u>16,896</u>	10/31/10
Total	\$33,706,636	

As of the current Application and Certificate for Payment 11, the previously funded amount to the General Contractor currently totals \$50,321,630. The amounts requisitioned under General Conditions, Fee, Design Fees, and Pre-Construction Estimating Services constitute the major portion of the difference between the amount paid to date and lien waivers made available to date.

Please note that our office is not performing a detailed accounting of lien waiver amounts paid to date for each Subcontractor. We are calculating the total of all lien waivers to date, to ascertain whether the total amount paid to date generally conforms to the most recently funded requisition amount.

### SECTION X - CONSTRUCTION SCHEDULE

### **Rate of Progress and Estimated Completion Date**

A High Level Arena Summary Construction Schedule, dated July 16, 2010, has been provided for our review. The current schedule, prepared by Hunt, indicates that substantial completion is anticipated to be by August 12, 2012. The Developer is currently reviewing that schedule and there is a meeting anticipated for mid-December to resolve current schedule disputes.

The schedule further indicates the following important milestones:

### **Activity**

Construction Phase	<b>Early Start</b>	<b>Early Finish</b>
Start Foundations and Footings	06/07/10	05/12/11
Underground MEP & Slab-on-Grade	11/01/10	10/06/11
Structural Steel (excluding Catwalk)	11/29/10	08/08/11
Con Ed Vault	01/20/11	08/12/11
Concrete on Metal deck	01/28/11	09/23/11
Structural Precast	03/11/11	09/14/11
Metal Stairs	03/14/11	06/25/12
Interior Masonry Partitions	03/22/11	03/23/12
Interior Finishes	03/22/11	08/12/12
Fireproofing	03/28/11	12/14/11
MEP Work	04/08/11	07/16/12
Vertical Transportation	04/13/11	04/13/12
Roof Steel/Deck	04/18/11	12/20/11
Roofing	07/15/11	03/19/12
Exterior Skin	08/09/11	06/14/12
Con Ed Permanent Power Available	11/04/11	-
Phase 5 (Lower Bowl Leave-Out) Foundations & Precast	11/22/11	02/09/12
Seating	11/22/11	08/07/12
Canopy Steel/Roof	01/17/12	05/15/12
Scoreboard, Video Displays, & Sound System	01/26/12	06/08/12
Phase 5 Ice Rinks Systems	02/10/12	07/10/12
Substantial Completion	-	08/12/12
Start NBA Pre-Season Games	10/17/12	-
Start NBA Regular Season	10/31/12	-

In our opinion, the construction term of 26 months for the Arena is reasonable, provided that adequate manpower is maintained throughout the construction term, and that there are no hold-ups, such as strikes, inclement weather, material shortages, or other unforeseen circumstances.

An early target substantial completion date of June 1, 2012, has been established with the following criteria to be met:

- a. Owner may use and occupy the Arena
- b. Only punch list items remain
- c. The Architect of Record has issued a Certificate of Substantial Completion
- d. A TCO has been issued

Punch list work and Subcontractor close-outs may extend the construction term to a final completion date of February 28, 2013.

According to the General Contractor, 325 persons have been on the job this month. Daily Manpower Logs, in chronological order, will be made available at the job site and will be reviewed periodically by our office.

We are enclosing our own computerized Construction Chart on which we have plotted actual construction progress versus the projected construction progress (see Attachment). This chart, based on cash flow projections, gives you an idea as to how the project is progressing on a month-to-month basis.

Currently, the project is slightly ahead of schedule.

### **Work Anticipated for the Next Period**

Mr. Gladden indicated that by our next site visit, we should expect to see the following progress:

### Arena

- 1. Bulk excavation will continue along the southeast portion of the site
- 2. The support of excavation operation will continue along Dean Street
- 3 Interior footings at Lines W, X, and Y at the northwest area will be poured
- 4. Foundation walls along Lines 4 3 will be poured
- 5. Underground electrical and plumbing rough-in will continue
- 6. Retaining wall removal along Pacific Street will continue
- 7. Steel columns at the northwest corner will continue

In our opinion, the preceding projections, as stated by Mr. Gladden, are realistic. It should be noted that all of last month's projections have been met.

### **SECTION XI - ATTACHMENTS**

The following documents are attached to this report:

- 1. Site Location Map
- 2. Developer's Requisition 8, covering November 2010
- 3. General Contractor's Application and Certificate for Payment 11 (Arena), covering the period through November 30, 2010
- 4. General Contractor's Application and Certificate for Payment 4 (Transit Connection), covering the period through November 30, 2010
- 5. Developer's Requisition for Payment
- 6. Change Order Summary and Change Orders
- 7. Off-Site Stored Material Documentation
- 8. Permits
- 9. Test Pile Results
- 10. Construction Progress Chart, prepared by Merritt & Harris, Inc.
- 11. Progress Photographs

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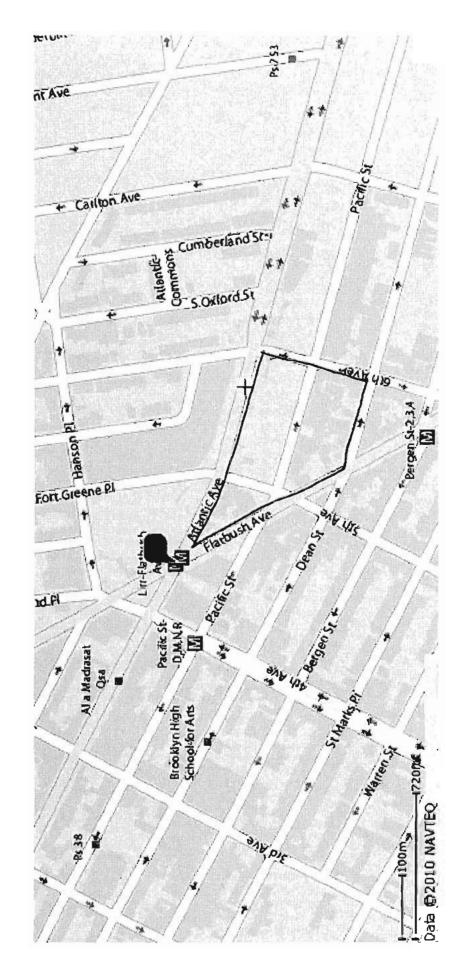
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EXHELAYS ANENA REQUISITION # 8 SUBMARY

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Furnita, Borote	2,301,484	(300,000)	1,891,484	800,300	94,478	280,534	1,000,0001	
Owner's Testing Servey	1,540,808	000'000	2040.99	386 (62)	200	No. act	20,001,740	
Owence Owigan Stoom Control among Total Hand Control	200, 1734, 200	N.78. Mil	200,300,415	TIZIBAR	A. C.	IN CHAN	184,485,730	47,408
Self Costs and Other:	2000000	270000		00000000	1.09/E-01	STATE STATE OF THE PARTY OF THE	10000000	
Artifecture & Engineering	98,648,740	1,500,000	100,346,749	W2,837,437	PAR.374	52,484,451	8,882,798	
Constitution Costs	2,629,180	0	45 600 600	96,222,760	1	SET,222,28	87777,238	
the last	28,246,308	175,039	29,415,386	22,667,735	NEW STREET	22,912,894	8,472,311	
Intersection / Commissioning / Office	3,514,640	3,000,365	8,561,225	1,000,946	4,411,771	distributed in the second	2,671,746	
Total flort Casts & Offer	162,116,469	ACTACAS.	116.645.254	153,221,861	3335.486	10,657,631	STATE OF	
Total Project Comm	696,291,783	Ī	604,381,793	586,527,385	19,436,896	362,008,727	\$14,194,588	4,718,362
				CARRESTO	0.3386	5903 1451	366,145	
ì				•	٠	0	Sec. 1	
Treat Linkship			-	000,000	0.316	DEST1400	Maria Maria	
TOTAL UNES	10710790	0	84,281,713	MEANAGE	13,421,884	287,710,062	436,601,711	4,716,362
110,000								
Correlation from NYCAVII	1121,435,4003	6	\$407007105	EGS-TON TON	a	C31.286.288		
						and the same	other than salter	
Tax-Exempt Bond Promests Funds to Construction Appears from this Asset Account Eactors	(100 married)		0	48,816	9 6	CLEAN AND A	(14,875)	
Projected Interest Electrics on Bent Fund (Prior to Vacant Presentated) Projected Interest Electrics on Conservation Account.	0,001,727)		(1.257.327)	d 0 123/2004	6-0	0.1527,1259	(MARCORE)	
Combs of Physician From Bond Processels and darlain Inserted Earnaby	115,630,790	-	115,838,280	113,538,710	0	111,628,196	1	
	The state of the s	A STATE OF PERSONS IN	Commence of the Party of the Pa	THE R. P. LEWIS CO., LANSING.	And Supposed by the	Charge and a S. W.	CHECKE STREET	
-	THE PERSON NAMED IN COLUMN	-	The same of the sa	A PART OF THE PART				
Additional floor	(360,712,840)		1300,712,680)	(272.106.6889	(12,421,835)	(284,537,722)	1112-1178-1888	
Projected treeses Earthigs on Additions flow Account	(PACACH)		P34.2350	•			(134,7854	
Supplies Continued National Deposit to Additional Nata Actional			0.0	247	•	6		
apart to Aphiere fless Association Non-Asse Account Success				16,112,022	0	10,113,032	118-113-0273	
differed Next Account Balance	THE P. LEWIS CO. W. P.		S COTTANAMA	134,334,634	DI,441,445	CONTRACTOR	ties voor test	
sets of Physicisty free Additional flust and cartach behaved Earthly	38,715,481	-	29,715,483	18,113,221	0	19,713,321	1340	
404 And Spired Sent Sections (New of COS)	042773401	-	04777,5819	G14,117,413	(12,421,6118	235,748,600	C 2+ 613 A443	
TIAL BOUNCES HET OF COS	PH/HUM	9	PHANCHIA	CHAMMAN.	11.471.8950	047,710,1811	2000年12日	
A seturate flam Assured on Vacant Possessin (5-12-10)  Total Assured Assured States on Vacant Possession (5-12-10)	BCRCRCIA BCRCRCIA		_	NORM	9,004.535	ERSIN	48,58,78	

EXHIBIT A
BARCLAYS ARENA
REQUISITION # B
ARENA BUILDING

	€	(B)	(c)	(D)	(E)	(F) = (O+E)	(G) = (C-F)	(H)
	Aveno Building Budget	Budjat Revisions	Revised Rudget	Proviously Expended	Current Requisition	Total Expended to date	Remaining Balance	Retainage To Oate
Site Acquisition Carte:	124,125,125	•	124,125,125	124,125,125	0	124,125,125	0	•
Mard Coats: Trades	395.246.107	(3.236.385)	392 009 722	45.039.103	4.754.909	49.794.013	342.215.709	3.805.981
GC / CM Fee	58,642,649	0	58,642,649	13,905,789	1,095,219	15,001,008	43,641,641	•
GMP Contingency	19,679,350	0	19,678,350	0	0	0	19,678,350	•
Hunt Add / Alternate Allowance for Site Regs, & FF&E December of Stimulian Seimation Sepains	0 034 585	0 0	0 22 150 4	O A 688	00	0 23 750 4	9 0	
Permits, Bonds	750,000	0	250,000	373,759	58.743	432,501	317.489	`
Owner's Teating/Survey	1,341,007	0	1,341,007	389,062	103,293	492,345	848,862	•
Owner's Design/Scope Contingency	22,619,332	0	22,819,332	0	0	0	22,818,332	•
Total Hard Costs	507,183,010	(3,236,385)	503,856,625	88,622,268	6,012,184	74,834,432	428,322,194	3,805,981
Soft Costs and Other;	2000	3000	900	00 TOT 00	730 600	00.4.4.4.4.00	200 730 7	
Legal	0.065,000	(200,006)	22,270,019	00,733,768	25.680	517,14,18	1,001,030	• •
Development Costs	45.000.000	0	45,000,000	36.222,780	0	36.222,780	8,777,220	•
Project Expenses / Marketing	29,085,305	0	29,085,305	22,703,167	30,562	22,733,719	6,351,586	•
insurance / Commissioning / Other	3,126,084	2,724,261	5,850,345	893,846	2,059,737	2,953,583	2,896,763	•
Development Contingency	2,671,795	0	2,671,795	0	0	0	2,671,795	
Total Soft Coets & Other	\$00,787,271	1,764,261	177,561,264	147,324,784	2,799,724	150,124,518	27,426,746	•
Total Project Costs	807,106,138	(1,472,124)	805,633,014	340,072,186	8,811,B88	348,884,074	456,748,940	3,805,981
Total AP	0	٥	0	(351.018)	(0.6.7)	(358,325)	358,325	•
Total Lability	8	0	8	(351,015)	(016.7)	(358,325)	358,326	
TOTAL USES	807.106.138	(1.472.124)	805.633.014	339.727.174	8.804.578	348,625,750	457,107,285	3.605.981

EXHIBIT A
BARCLAYS ARENA
REQUISITION #8
TRANSIT CONNECTION

		€,	(8)	(0)	Q	(E)	(F) = (D+E)	(G) = (C-F)	Ĥ
		Transit Connection Budget	Budgel Revisions	Aevisoti Bergot	Previously Expended	Current Regulsition	Total Expended to date	Remaining Balance	Retainage To Date
~ (	Sile Acquieition Costs.	0	٥	0	0		0	0	
4 05 4	Hard Costs;	A 52 4 500	10.448.000	005 820 62	S 486 Bod	2 992 817	B 398 711	48,878,789	807,368
e vs	GC / CM Fee	Q Q	1,748,000	1,748,000	948,588	114,685	1,064,373	681,627	106,043
•	GMP Contingency	0		0	0		0	0	
~	Hunt Add / Alternate Allowance for Site Regs. & FF&E	0	0 (	0	0 000		0 770 180 1	301.006	
<b>6</b> 0 05	Precentativedon Estimating Services Permits, Sonds	1,186,850	(000'009)	098,2850	306,797	42,083	348,880	317,970	
9	Owner's Testing/Survey	0	000,009	200,000	0	12,577	12,577	487,423	
Ξ	Owner's Design/Scope Conlingency	0,033,980	(1,800.000)	4,233,980	0		0	4,233,960	
23	Total Hard Costs	68,097,554	(1,500,000)	68,507,664	8,703,819	3,102,161.82	11,805,781	64,701,773	912,411
2 3	South Lond and Dabon				C				
15	Architecture & Engineering	3,117,848	1,500,000	4,817,848	3,076,386	96,550	3,172,835	1,444,913	
2	Legal	163,180	0	163,180	163,180		163,180	•	
<b>C</b> 3	Development Costs Device Eveness / Marketing	0 0	9,50	125,000	711 26	3.525	37.642	87.358	
2	Insurance / Commissioning / Other	285,070	270,098	655,769	104,886	276,147	380,633	174,336	
8	Development Contingency	0	0	0	0		0	0	
24	Total Soft Costs & Other	3,666,098	1,885,099	5,461,197	3,378,367	876,223	3,754,590	1,706,607	
22									
ន	Total Project Costs	71,573,662	345,096	71,988,751	12,081,967	3,478,384	16,560,371	56,408,380	912,411
<b>%</b> %	Total Ap	8			(7.820)	-0	(7,820)	7,820	
8		•			-		0		
27	Total Liability	8	8	8	(7,820)	0	(023(2)	7,820	
23					-				
8	TOTAL USES	71,573,662	386,089	74,868,751	12,074,196	3,478,384	15,562,661	56,416,200	912,411

EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
ARENA SITEWORK

Straight		_	( <del>V</del> )	(8)	(C)	(0)	(E)	(F) = (D+E)	(G) = (C+)	(H)
15,724,060			Arens Sitework Budget	Sudget Revisions	Revised Budget	Previously Expended	Carrent Requisition	Total Expended to date	Romaining Balance	Retainage To Date
## Action	Site Aco	Mitthen Coats:	0	0	0	0		0	Φ	
Free Allowance for Site Rece. & FFRE 150,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hard Co Trades		15.734,060	•	15,734,080	332,012		332,012	15,402,049	
Secretaria   Contract   Contrac	30	Fae	1,868,087	0	1,868,087	0		0	1,888,087	
### Activation of the first consists of the	GMP Cor	ntingency	•	0	0	•		0	0	
of Estimating Services         150,000         0         150,000         31,396         (844)           of Set, original services         150,000         0         354,016         0         164,016         0         (844)           p/Scope Containgency         1,817,224         0         1,817,224         0         1,817,224         0	Hunt Add	I/ Atternate Allowance for Site Regs. & FF&E	0	0	0	0		0 0	0 9	
State   Stat	Preconst	nucion Estimating Services	190,000	0	000'051	31,598	6767	986'15	209,911	
1975   1977	e de la constante de la consta	50008	30,00	5	30,000	0 0	(046)	(980)	300,003	
of Okhair         20,143,349         363,810         (843)           of Okhair         2,460,631         860,000         3,420,631         2,797,872         66,477           Closts         0         0         0         0         0         0         0           Costs         0         45,000         205,000         170,450         1,185         1,185           minissioning / Other         0         0         0         0         0         0         0           contingency         0         0         0         0         1,185         1,186,500         1,186,500           Exp. & Other         2,707,307         1,077,025         23,927,681         3,362,948         148,650           Costs         0         0         0         0         0         0           Ass & Other         2,23,927,681         3,362,948         148,699           Costs         0         0         0         0	Cemers	Testing/survey Design/Scope Continuency	199,800	<b>-</b>	189,901	<b>&gt;</b> •		9 0	1,817,284	
Logis         2,460,631         960,000         3,420,631         2,797,972         66,477           Costs         0         0         0         0         0         0           Costs         1,100         0         0         0         0         0           Ammissioning / Other         0         0         0         170,450         1,100         0           Aris & Control         0         0         0         0         0         1,077,025         2,367,643         2,2888,339         148,659           Costs         2,107,307         1,077,025         23,927,641         3,362,648         148,639           Costs         0         0         0         0         0         0	Total Ha	rd Coets	20,143,349	a	20,143,349	363,810	(849)	362,762	19,780,587	•
Englineering 2,460,631 860,000 3,420,631 2,787,872 66,477 Costs 160,000 45,000 205,000 170,450 1,162 81,867 818,867 818,867 81,8	Soft Co	ts and Other.					;			
Costs         0         0         0         0         0         0         170,450         1,186           seal / Marketing         160,000         45,000         205,000         170,450         1,186         1,186           mmisseoning / Other         86,676         72,025         158,701         31,017         81,867         81,867           set & Corting Gency         2,107,307         1,077,025         3,784,332         2,2889,339         148,639           Coats         22,864,846         1,077,025         23,927,681         3,362,848         148,639           p         p         p         p         p         p	Anchillect	ure & Engineering	2,460,631	000'098	3,420,631	2,787,872	66,470	2,864,342	897,955	
seat / Marketing         160,000         45,000         205,000         170,450         1,165           mmissioning / Other         B6,676         72,025         158,701         31,017         81,867           tes & Contingency         2,107,307         1,077,025         2,364,332         2,2889,339         148,569           Coats         22,866,846         1,077,025         23,927,681         3,362,848         148,569           Coats         0         0         0         0         0	Developin	reni Costs	0	> 0	0	• •		0	0	
### ### ### ### ### ### ### ### ### ##	Project E	xpensea / Marketing	160,000	45,000	205,000	170,450	1,183	171,639	33,367	
Coets 23,927,681 3,362,948 148,593 20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Insurance	/ Commissioning / Other	96,676	72,025	158,701	31,017	81,887	112,903	46,797	-
Coats 22,850,636 1,077,025 23,927,681 3,362,648 148,699	Total So	Coets & Other	2.707.307	1.077.025	3.784.332	2.809.339	149.540	3,148,878	836,463	,
Coats 22,850,856 1,077,025 23,927,681 3,362,848 148,689 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
0 0 0 0 0	Yotal Pr	yect Costs	22,860,656	1,077,025	23,927,681	3,362,948	148,692	3,511,640	20,416,041	•
0 0 0 0 0	Total AP		0			0	0	<b>ं</b> ठ ,	0	
STY CORP L. PRO LINE NO. SHAN THE STATE OF T	Total La	Dillfy	a	5	0	3	0	9	0	•
TOTAL CONTROL TO THE TOTAL CONTROL CON										
22,800,656 (1,05,125, 22,82,198) 3,302,1985	TOTAL USES	J8E8	22,880,656	1,077,025	22,827,881	3,362,948	148,682	3,511,640	20,415,041	•

EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
ARENA MITIGATION

	(A)	(B)	(0)	(Q)	(E)	(F) = (D+E)	(G) = (C.F)	£
	Arena Mitigation Budget	Budget Revisions	Revised Budget	Previously Expended	Current Requisition	Total Expended to date	Remaining Balance	Retainage To Date
Site Acquisition Costs:	0	0	0	0		0	0	
Hard Costs. Trades	2,200,800	0	2,200,800	069'08		069'08	2,120,110	
GC / CM Fee GMP Continuency	163,286	06	163,296	00		<b>6</b> G	163,296	
Hunt Add / Alemate Allowance for Site Regs, & FF&E	0	0	0	0		0	0	
Preconstruction Estimating Services	50,000	0	50,000	0		0	50,000	
Permis, bonds Owner's Testing/Survey	0 8(4'06'	0	30,05	0		5 0	0	
Dwnar's Design/Scope Contingency	241,172	0	241,172	0		0	241,172	
Total Hard Costs	2,685,886	Ó	2,685,886	069'08	0	069'08	2,805,196	,
Soft Costs and Other:				,			•	
Architecture & Engineering Legal	29,451	•	29,451	29,451		29,451	00	
Development Costs	0		0	0		0	0 0	
Froject Expenses / Markeung Insurance / Commissioning / Other	17,010	00	17,010	0		0	17,010	
Development Contingency Total Soft Costs & Other	46,461	0	46,481	29,451	ď	28,451	17,010	•
Total Project Costs	2,732,347	0	2,732,347	110,141	0	110,141	2,622,206	
Total AP	ā			0	à	٥ ٥	0	
Total Lability	0	0	0	û	0	ō	0	,
# 1								
IOIAL USES	2,732,347	ā	2732,347	191,011	1	110,141	2,622,206	

\*

## ARENA REQUISITION 48

hate of Ray M	Vander over	T broke	Regulation Sheet	ARENA TRANSIT	ARCHA APPRAISANT	Secretary.
nguladien Line	Vender name	APP1287-011 BA	4.712.467.13	ARESEA-TRANSIT	ARENA-BITEWORK	Grand Total
- Erpoint	Hami Construction Getting Inc.					4,712,497
	their Congrussian Group Inc. Total	APP004-1878	4,712,497.13	2,932,817.00		4,712,497 2,912,617
	John Civetta and Sons, Inc. John Civetta and Sons, Inc. Total	214 1 001 1 101 0		2,932,817,60		1,912,817
	SimplerGrivnes LP	APP002-1936	42,412,21	2,332,317,00		42,412
	SimplexOrlement LP Total	107 F 0002 - 12/20	42,412.21			42,412
- Trades Total	100	March Street	4,704,909.54	2,932,817.00		7,667,736
-GOCM Fee	Hunt Construction Group Inc.	APP1287-011 BA	1,095,218.87	ALC: NO.		1,006,218
	Hunt Construction Group Inc. You		1,095,218,97	20,945,000		1,095,218
	John Civette and Sons, inc.	APP004-1878		114,005.00		114,685
	John Civette and Sons, Inc. Total		A CONTRACTOR OF	114,686.00	THE RESERVE OF THE PARTY OF THE	114,685.
-SOCM Fee Total	AND THE RESERVE OF THE PARTY OF	The Down of the last	1,000,210.97	114,685.00	THE RESERVE OF THE PERSON NAMED IN	1,200,903
- Parmita & Bonds	Ann Misk Services Company	440000000E3GBB	(21,297.50)	(2,855.00)	(947.50)	(25,000)
	Ace Risk Services Company Tols		(21,297.50)	(2,856.00)	(847.50)	(25,000)
	John Consultanta Inc.	APP902	80,040.00			80,040
	Jem Consultants Inc. Your	-	80,040.00			80,040.
	John Chrete and Sons, Inc.	APP004-1879		44,938.00		44,938
Company of the contract of the	John Cheelle and Some, Inc. Total		0.101	44,538.00	V-V-V-	44,938
Perreto & Sonde Total     Owners Testing	Adams: Engineering Laborator	JAPP901-1941	MJ-0.50	42,043,00 12,576,62	(647.8%)	12,576
- Count result	reason indivessed measure.	APP005-1850	75,863.14	12,575.02		12,576. 75,963.
	Atlantic Engineering Laborator To	Annual Control of the	75,863.14	12.676.82		98.438
	Langer Engineering & Environ.	APP8-0166776	27,425.95	12,078.02		27,425
	Langen Engineering & Environ, T		27,625.66	CAN TO THE	-	27,429
0 - Owners Testing Total		TARREST TO STATE OF THE PARTY O	163,390.09	12,576,82		716,880
5 - Architecture & Engineering	Burwood Group, Inc.	APPes	8,596,59			8,196
		APPRY	6,630,44			5,550
	Burwood Group, Inc. Total	0.000	15,227.43			15,227
	Plant Construction Group Inc.	APP1287-011 BA	406,671.00			408,671.
	Hurt Construction Group Inc. Tot		436,671.00			400,671.
	Lovet Silveman Construction	APP12-02033388N	11,722.26	_		11,722,
	Lovet Streeman Construction To		11,722,26			11,722
	Shop Ambileds PC	060705-19 Phase			60,460.64	00,468
	THE PARTY OF THE P	090705-19 Rev	240,333,60			246,333
	Shop Architects PC Total	APP12-449579	346,333.98	4774414	05,469.54	314,803.
	Stance: Consulting Sentineting Stance: Consulting Sentossing T		_	96,550.18		94,550
5 - Architecture & Enghauming Total	The second second		#15/30		85,463.64	846.974
8 - Logal	Brown, LLP	9010044130	141.50	The state of the s	- BATTER A	141
		9010644609	1,410.00		- 1	5,410
		9010046853	363.67			283
	However, LLP Young		1,834,87			1,834
	Peul, Wass, Rithard, Wharton	245330	3,842.36			3.962
	Charles of the second fluctuation	245354	6,593.35			6.593
	Paul, West, Ritiand, Wherein To		10,568.83			10,365
	Thompson Hise And Flory	2356894	9,192.58			9,192
	200	2356895	780.75			796
		2374736	824.00			834
		2378239	2,264,28			2,284
E Land Total	Thompson Hins And Plary Total		13,089.61			13,089
8 - Lagel Total 8 - Project ExpensesMarketing	Francis Conces & Security	Inerc sala a	25,480.11	5 657 70	1,183.17	25,460
a decreases and asteroid	Darryl E. Greene & Azzociates Darryl E. Greene & Azzociates To	BEC-2010-4	36,291.44 36,291.44	3,525,30	1,183.17	31,000
	thereton LLP	11779247	4,281,00	2,525.30	1,160.17	31,000
	Bertier LLP Total	T-1/10041	4,361,00		The second second	4,261
1 - Project Expenses/Methoding Total	THE COME CONTRACT	-1140	30,962,44	1.525.30	1,183.17	36,261
5 - Touri AP	Fried, Frank, Harrie, Shriver	108395	(7,309.72)		A DECICAL	(7,309
	Fried, Frank, Harrie, Stotver Tolo		(7,309.72)			(7,309
5- Total AP Total	THE RESERVE OF THE PARTY OF	CONTRACTOR OF THE PARTY.	(7,306,72)	A STATE OF THE PARTY OF THE PAR	DESCRIPTION OF THE PERSON NAMED IN	(7,309
3 - Insurance/Constitutioning/Other	Willia of New York, Inc.	1007908	987,159-25	132,364,37	34,365.38	1,158,739
		1009462	1,072,577.96	143,782.61	42,681,53	1,259,642
	Willia of New York, Inc. Total	15/7/17/201	2,064,737,21	276,146.98	\$1,886.91	2,417,771
8 - Insurance Commissioning Other Fire	Appropriate the second	THE RESIDENCE OF THE PARTY OF T	2,099,737.21	275,148.56	91,680.91	2,417,771.
brand Total			L\$64,578,20	3,478,364,37	149,662.22	12,431,554

APPLICATION AND CERTIFICATION FOR PAYMENT	ICATION FOR PAYMENT	AIA DO	AIA DOCUMENT G702		PAGE ONE OF	PAGE8
TO OWNER.	PROJECT: Barclay's Center Arena	APE	PPLICATION NO:	1287-011 (001)	Distril	Distribution to:
Attantic Yards Development Company, LLC	C st Atlantic Yards			ARENA ONLY		OWNER
One Metrotech Center North, 11th Floor		<u>\$</u>	PERIOD TO:	11/30/10		ARCHITECT
Brooklyn, NY 11281					Ŏ	CONTRACTOR
PROM CONTRACTOR:	VIA ARCHITECT:	_				
Hunt Construction Group, Inc	Ellerbe Beckett					
625 Atlantic Avenue, 3rd Floor	2380 McGee Street	PRC	PROJECT NOS:			
Brooklyn, NY 1121/ CONTRACT FOR:	Nauske CRy, MO 64105	_ <del>(</del> 2	CONTRACT DATE:			
CONTRACTOR'S ADDITION FOR DAVMENT	ON EOD DAVMENT	F		and her becomes a substitute of the state of	of about and and	- I was a firm
Application is made for perment, as shown below, in connection with the Contract.	in connection with the Contract.	Informati	on and belief the Wo	information and belief the Work covered by this Application for Payment has been	cation for Payment	1 bas been
Continuation Sheet, AIA Document 0703, is attached.	hed.	complete	d in accordance with	completed in accordance with the Contract Documents, that all amounts have been paid by	that all amounts !	have been paid by
Sale to territorial at	00 200 100 100	the Colu	actor for Work for w	the Contractor for Work for which previous Certificates for Payment were issued and	s for Payment wer	t issued and
1B. LESS CCE PER OCO 16	\$ (8.839,018.00)	payion	received from the C	payndans received from the Owner, and take current payment above bottom to now due.	INTIRCUI SELOWEI DEIC	
	\$ 475,755,507.00					
		SONTE	CTOR: Hant Coast	CTOR: Haat Construction Group, Inc.		
3. CONTRACT SUM TO DATE (LARET ± 2) 4. TOTAL COMPLETED A STORED TO	5 47 007 80 3 441 007 80					
DATE (Column G on G703)		By:			Date:	17071
S. RETAINAGE:	2 080 508 r	- 10 at 10	X Jan Sunda	١	DAY ACTION	CONTRACTOR AND
3	C1:00c400a1c	Subscrib	d and sword to befor	eafter this	10/4 Dace	A CONTROLLERSEY
b. % of Stored Material S (Column F on G703)		Notory Pub	-	Correction that	+	5 %
Total Retainage (Lines 5a + 5b or				Men X		المالية
	\$ 3,805,980.75	ARCI	IITECT'S C	ARCHITECT'S CERTIFICATE FOR PAYMENT	OR PAYME	I.N.I
6. TOTAL EARNED LESS RETAINAGE (I time 4 Less Line 5 Total)	\$ 56,538,017.14	In accord	noce with the Contra or the amplication, the	In accordance with the Contract Documents, based on on-site observations and the data communicates the semilication, the Architect certifies to the Oceans that to the heat of the	on-site observation	is and the data
7. LESS PREVIOUS CERTIFICATES FOR		Architect	ts knowledge, inform	our apprication, and required contains to the Contain that the containing and belief the Work has progressed as indicated	x has progressed a	indicated,
PAYMENT (Line 6 from prior Certificate)	\$ 50,321,630.04 \$ 6,316,387,10	the quality	y of the Work is in at	the quality of the Work is in accordance with the Contract Documents, and the Contractor is emislad to entract of the AMOI INT CREATERED.	act Documents, an	id the Contractor
9. BALANCE TO FINISH, INCLUDING RETAINAGE			A part in man or may or		016 207 10	
(Lanc 3 less Lang 6)		AMOUNT NO	AMOUNT CERTIFIED\$		01./00,017	1
CHANGE ORDER SUMMARY	ADDITIONS DEDUCTIONS	-	explanation if amount	Certified differs from the amount applied. Initial all figures on this	amount applied. It	nitial all figures on this
otal changes approved a previous months by Owner	\$1,053,701.00	APPLICATION	mond onthe Confin	nuation wheel that are char	пдед to солбогт w	thees that are changed to conform with the amount certified.)
otal approved this Month OCO 43-52	\$0.00	By:		HOTH WELL	Date: //	01/08/11
OTALS	\$1,114,580.00 \$6,282,493.00	Ö	Cate is not no gotial	arthrate is not negotiable. The AMOUNT CERTIFIED is payable only to the	TIFIED is payable	only to the
HIET CHANGES by Change Order	(\$5,167,913.00)	Contractor	r named herem, issum to may rights of the C	Contractor named Neven, assumes, payment and acceptance of payment are writtons projucted to any rights of the Owner or Contractor under this Contract.	nce of payment are rr this Contract.	: without
11 COMENT CT/2 - APPLICATION AND CZRTIPICATION FOR PAYMENT : 1662 EDITION - AM - 61662 L	FAYNEDIT - 1982 EDITION - AM - Crisez	THE AMERICA	AN INSTITUTE OF ARCHEI	THE AMERICAN INSTITUTE OF ARCHITECTS. 1726 NEW YORK AVE., R.W., WASHINGTON, DC 20006-5282	cw. Washengton, DC	2000-5282

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ONTIL	CONTINUATION SHEET		·	AIA DOCUMENT G703	INT G703		- 1	PAGE OF PAGES		
Document G tractor's signi bulations bed Column I on	AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, Contractor's signed certification is attached. In tabulations below, amounts are stated to the nearest dollar. Use Column I on Contracts where variable retainage for line items may apply.	ATION FOR PAYM ollar. line itons may apply	ENT, containing			APPLICATION NO: APPLICATION DATE: PERIOD TO: ARCHITECT'S PROJECT NO:	APPLICATION NO: APPLICATION DATE: PERIOD TO: TECT'S PROJECT NO:	1287-011-Arena 12/01/10 11/30/10	<b>.</b>	
	æ	S	Ω	83	ÇL,	D		H	1	
ITEM	DESCRIPTION OF WORK	SCHEDULED	WORK COMPLETED	(PLETED	MATERIALS	TOTAL	*	BALANCE	RETAINAGE	
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			APPLICATION (D+E)		STORED NOT IN	AND STORED TO DATE		ල ල •	KATE)	
					DORE	(D+E+F)				
01 Get	01 General Conditions									
	Lump Sum General Conditions	\$21,885,851.00	\$8,857,378.00	\$595,690.00	80.00	59,453,068.00	43.19%	\$12,432,783.00		
_	OCO No. 9	\$11,202.00	\$11,202.00	\$24.812.00		\$11,202.00	100.00%			
	OCO No. 36	\$2,769.00	-				-	\$2,769.00		
	000 No. 37	\$901.00	\$901.00	100		2901.00	100.00%			
	OCD No. 44 OCO No. 45	\$1,034.00 \$753.00		\$1,034.00		\$1,034.00	100.00%			
_	OCO Work - Additional Gen. Cond.	\$42,432.00	\$12,103.00	\$27,560.00		\$39,663.00	93.47%	\$2,769.00		
	Insurance	\$8,856,536.00		20.00		\$0.00		\$8,856,536.00		
Deska	Design Services	\$13,595,198.00	\$7,801,497.00	\$408,671.00		\$8,210,168.00	%60:39%	\$5,385,030.00		
Central	Countraction Site Services Cost of Work General Conditions	\$10,629,439.00	\$1,200,160.11	\$197,807.98	_	\$1,397,968.09	13.15%	\$9,231,470.91		
02 Sitework	werk  Earthwork & Foundations  Temp Site Requirements  Pour Strip Ace Floor	\$133,000.00 \$1,017,245.00 \$75,000.00						\$133,000.00 \$1,017,245.00 \$75,000.00		
Subcontracts	Fences & Barriers .	\$262,880.00						\$262,880.00		
	9412 MFM Contracting Corp	\$39,536.00	\$39,536.00	80.08	00.03	\$39,536.00	100.00%		\$0.00	
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## HUNT CONSTRUCTION GROUP, INC INVOICE NO. 1287-11

## FEE CALCULATION

Total Completed & Stored to Date Less CM Fee		\$67,071,928.35	(1)
Less Ellerbe Design Fees		\$8,210,168.00	
Less CCE Fee		\$8,839,018.00	
Total Cost of Work to Date		\$50,022,742.35	
Total Adjusted GMP		\$479,426,612.00	
Less Design Builders Fee		\$18,238,607.00	
Less Ellerbe Design Fees		\$13,595,198.00	
Less CCE Fee		\$8,839,018.00	
Total Adjusted Contract Amount		\$438,753,789.00	
Percent Complete		11.40%	
DESIGN BUILD FEE	s	18,200,000.00	
Percent Complete		11.40%	
Fee Earned	s	2,074,999.54	
Construction Phase Fee Earned		\$2,074,999.54	
Less Fee Earned Previously		\$1,825,914.55	
Fee for November 2010	s	249,084.99	
Total Fee Earned to Date	s	2,074,999.54	
Less Fee Paid To Date		\$ <u>1,825,914.55</u>	
Fee Due This Month	\$	249,084.99	

<sup>(1)</sup> Amount equals AIA 703 Grand Total Column G minus CM Fee to date from AIA 703 Column G

## LIEN WAIVER

## MECHANIC'S LIEN WAIVER

			1287-011 Arena
Contractor:	Hunt Construction Group, Inc	Date:	12/1/10
Trade:	Design / Builder	Period Ending:	11/30/10
Project:	The Barclays Center Project	Contract Price:	\$475,755,507.00
_		Net Extras &	
		Deductions:	(\$5,167,913.00)
Site:	600 Atlantic Avenue	Adjusted Contract Price:	\$470,587,594.00
	Kings County, Block	Amount Paid to Date:	\$ 50,321,630.04
		Amount of Current	
		Payment:	\$ 6,216,387.10
	Jerry		
STATE OF	NEW YORK )		
	88.		
COUNTY (	OF Modelect )		

THE UNDERSIGNED, as authorized representative of Contractor and on behalf of the Contractor, (1) acknowledges receipt of the amount set forth above as payments received to date, (2) to the extent of such payments, and the amount of the current payment set forth above, waives and releases any claim which it may now or hereafter have upon the land and improvements described above, (3) that the amount of payments received to the date of this waiver, plus the amount of the current payment, represents the current amount due in accordance with Contractor's Agreement for work completed, and (4) warrants that it has not and will not assign any claims for payment or right to perfect a lien against such land and improvements and warrants that it has the right to execute this waiver and release. The Contractor represents that the adjusted Contract Price set forth above is inclusive of all additional work performed or additional costs incurred under the Agreement as of the date of this Lien Waiver.

In consideration and to the extent of the amounts and sums previously received and the Current Payment, Contractor hereby waives, releases and relinquishes any and all claims, rights or causes of action whatsoever, in equity or law, arising out of, through or under the above mentioned Agreement and the performance of Work pursuant thereto, up to and including the date of this Lien Waiver.

THE UNDERSIGNED Contractor further warrants that, to the extent of payments received through last month's Application for Payment: (1) all workmen employed by it or its subcontractors on this Project have been fully paid, (2) all materialmen from whom the undersigned or its subcontractors purchased materials used in the Project have been paid for materials delivered, and (3) none of such workmen and materialmen has any claim or demand or right of lien against the land and improvements described above. In addition, the undersigned stipulates that he is an authorized officer with full power to execute this Lien Waiver on Contractor's behalf.

THE UNDERSIGNED agrees that the Owner of the Project, and any Lender, title insurer, or other entity may rely upon this Lien Waiver.

WITNESS the signature and seal of the undersigned as of this 1<sup>th</sup> day of December, 2010.

Hunt Construction Group, Inc

Bv:

Name: H. Mark Gladden Title: Project Executive

Sworn to before me this

01 day of 1

, 2010.

Netary Public

GEORGE RICHTER

NOTARY PUBLIC

STATE OF NEW JERSEY

MY COMMISSION EXPIRES DEC. 9, 2015

APLICATION AND CERTIFICATE FOR PAYMENT	ATE FOR PA	YMENT					
O (Owner): Brooklyn Everte Center LLC e/o Forest City Rather Compenies 1 Metrolech Center Brooklyn, NY 11201	E S	Project Ry Je	Project BARCLAYS CENTER at ATLANTIC YARDS Brookfin, NY	APPLICATION # APPLICATION PEPLICATION DATE PERIOD TO:	004-1878 12/07/10 11/28/10	×	Distriction for OWNER ARCHITECT CONTRACTOR OWNER'S REP
ROM (CONTRACTOR); John Civetta & Sorts, Inc. 1122 Brotz, River Avenua Brotz, NY 10472	, ,	VIA (ARCHITECT):		PROJECT NO:	KOCK		
ONTRACT FOR: General Contractor	tor		. 1	CONTRACT DATE:			•
CONTRACTOR'S APPLICATION FOR PAYMENT	IN FOR PAY	MENT	Application is made for Permer	Application is made for Peyment, as shown below, in correction with the Contract.	the Contract.		
CHANGE ORDER SUMMARY	SUMMARY		Commission Colors of the	an low.			
hange Orders approved in evicus monitis by Owner TOTAL	ADD/TIONS 1825000 1,825,000.00	DEDUCTIONS	1. OHIGH 2. Net chi	OHIGINAL CONTRACT SUM		***************************************	60,581,000 1,979,573 62,580,573
lश⊓			4. TOTAL	TOTAL COMPLETED & STORED TO DATE\$		***	B,474,798
3 11/18/2010 4 11/18/2010	46,428.00	88	5. RETANAGE: a. 10 % of Column B. 10 % (Column G	(Column R on FC Surrorery)  10 % of Completed Work (Column E+F on FC Surrinery)  10 % of Stored Material (Column Q on FC Surrinery)	912,411.30		
TOTALS	1,879,173.00	0.00	F) and T	Total Retainage (Line Se + 5b or			
Vet change by Change Orders	1,979,173.00		Total	Total in Column I of FC Summary)		•	912,411
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sued and payments received from the Owner, and that current payment shown shelf is now clue.	mmer, and that curre	att peryment ehown	B. BALAN (Line	BALANCE TO FINISH, PLUS RETAINAGE(Line 3 less Lins B)		•••	43,987,786
ONTRACTOR: John Christa & Bons, Inc.	& Sons, Inc.		State of: New York Subscribed and ervorn to belons me this	7	County of New York December 7, 2010	ANTHONY CRUARANTA NOBIY Pubsic, State of New York No. 0101 Januaran	UNTA How York
Authorited Signature		12/07/10 DATE	Notery Public: My Commission expires:	Letenfriend	1 8. E.	Contember in Kings County Contember in Expires Aug. 31, 2013  8-3 / 2013	J1, 2013
ACHITECTS CERTIFICATE FOR PAYMENT	PAYMENT	-	ANOUNT CERTIFIED	b)	7	**	
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			prejudice to any rights of	Contractor retired reports. Solution, payment in the acceptance of per- graphatics to any rights of this Owner or Contractor under this Contract.	TOTAL STEER STEER		

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## MECHANIC'S LIEN WAIVER

Contractor	John Civetta & Sons, Inc.	Date:	\$12/07/2010
Trade:	General Construction	Period Ending:	\$11/30/2010
Project:	Atlantic Yards - Transit Improvements	Contract Price:	\$50,581,000.00
Owner:	Atlantic Rail Yards, LLC	Net Extras & Deductions:	\$1,979,173
Site:	Kings County Tax Blocks 1118, 1119 and	Adjusted Contract Price:	\$52,560,173
	1127, and the beds of 5th Avenue, between Flatbush Avenue and Atlantic Avenue, and	Amount Paid to Date:	\$2,931,047
	Pacific Street, between Flatbush Avenue and 6th Avenue.	Amount of Current Payment:	\$3,092,440

STATE OF NEW YORK )
ss.
COUNTY OF Bronx )

THE UNDERSIGNED, as authorized representative of Contractor, (1) acknowledges receipt of payments equal to the sum described above as "Amount Paid to Date". (2) to the extent of such payments, and the sum set forth above as the "Amount of Current Payment", waives and releases any claim which it may now or hereafter have upon the land and improvements located at the "Site" described above, (3) that the "Amount Paid to Date", plus the "Amount of Current Payment", represents the current amount due in accordance with Contractor's Agreement for work completed, and (4) warrants that it has not and will not assign any claims for payment or right to perfect a lien against such land and improvements and warrants that it has the right to execute this waiver and release. The Contractor represents that the adjusted Contract Price set forth above is inclusive of all additional work performed or additional costs incurred under the Agreement as of the date of this Lien Waiver.

In consideration of the amounts and sums previously received and the Current Payment, Contractor bereby waives, releases and relinquishes any and all claims, rights or causes of action whatsoever, in equity or law, arising out of, through or under the above mentioned Agreement and the performance of Work pursuant thereto, up to and including the date of this Lien Waiver.

THE UNDERSIGNED Contractor further warrants that (1) all workmen employed by it or its subcontractors on this Project have been fully paid to the date bereof, (2) all materialmen from whom the undersigned or its subcontractors purchased materials used in the Project have been paid for materials delivered on or prior to the date hereof, (3) none of such workmen and materialmen has any claim or demand or right of lien against the land and improvements described above, and (4) stipulates that he is an authorized officer with full power to execute this Lien Waiver.

THE UNDERSIGNED agrees that the "Owner" described above, the Brooklyn Arena Local Development Corporation, the New York State Urban Development Corporation d/h/a Empire State Development Corporation, and any title insurer or other entity may rely upon this Lien Waiver.

WITNESS the signature and seal of the undersigned as of this 7th day of December, 2010.

JOHN CIVETTA & SONS, INC.

Name: Theodore Civetta Ir Title: Authorized Signature

Sworn to before me this

7th day of Decembers 2010.

ANTHONY CUARANTA Notary Public, State of New York No. 01QU4703800

Qualified in Kings County Commission Expires Aug. 31, 2013

## **REQUISITION FOR PAYMENT**

TO:	The Bank of New York Mellon, a New York banking corporation, as Bond Trustee under the PILOT Indenture described below (the "Bond Trustee").	
FROM:	Merritt & Harris ("Construction Monitor").	
RE:	Master PILOT Indenture of Trust, between Brooklyn Arena Local Development Corporation (the "Agency") and the Bond Trustee, dated as of December 1, 200 (the "PILOT Indenture"), with respect to the financing of a project (the "Project") as defined in the PILOT Indenture.	
REQUISI	TION NO.:8 /	
AMOUNT	OF DRAW REQUESTED: \$ <u>12,431,654.79</u>	
DATE:	December 20, 2010.	

This Requisition for Payment (this "Requisition") is submitted by the Construction Monitor to the Bond Trustee pursuant to the requirements of Section 4.02 and Section 5.02(c) of the PILOT Indenture in order to induce the Bond Trustee to approve the requested disbursement of funds (a "Bond Proceeds Draw") from the Senior PILOT Bonds Construction and Acquisition Account of the PILOT Bonds Project Fund established under the PILOT Indenture and pursuant to the requirements of Section 2.13 of the First Supplemental PILOT Indenture in order to induce the Bond Trustee to approve the requested disbursement of funds (a "Additional Rent Draw") from the Series 2009 Additional Rent Account of the PILOT Bonds Project Fund established under the First Supplemental PILOT Indenture. All capitalized terms used herein which are not otherwise specifically defined shall have the same meanings herein as in the PILOT Indenture and the First Supplemental PILOT Indenture.

- (a) The Construction Monitor hereby requests that the Bond Trustee approve a Draw for \$ 12,431,654.79. \$ 12,431,654.79 of the Draw will be an Additional Rent Draw and \$ 0.00 of the Draw will be a Bond Proceeds Draw. Details of the requested Draw are set forth on Exhibit A attached hereto.
- (b) The Draw of \$ 12,431,654.79 requested hereby, when added to all prior Draws in the aggregate amount of \$ 70,522,342.22, will result in aggregate Draws of \$ 82,953,997.01. The Additional Rent Draw of \$ 12,431,654.79 requested hereby, when added to all prior Additional Rent Draws in the aggregate amount of \$ 70,522,342.22, will result in aggregate Additional Rent Draws of \$ 82,953,997.01. The Bond Proceeds Draw of \$ 0.00 requested hereby, when added to all prior Bond Proceeds Draws in the aggregate amount of \$ 0.00, will result in aggregate Bond Proceeds Draws of \$ 0.00.

## (c) The Construction Monitor hereby certifies that:

- (i) Each of the Construction Agreements, or substitute construction agreements (including, but not limited to, the Guaranty to the Arena Lease Agreement (the "Guaranty") to the extent the Guarantor is performing Guaranteed Work pursuant to the Guaranty), is in full force and effect on the date hereof and have not been modified or amended, except as permitted by the terms thereof. Except for notices, if any, relating to matters which have been cured or waived, or except as may be stated on **Exhibit B** attached hereto, the Construction Monitor has no knowledge of receipt by the Company nor has the Construction Monitor received any notice of default from a Contractor under the Construction Agreements or such substitute construction agreement.
- (ii) Except as may be stated on **Exhibit B** attached hereto, construction of the Project has been performed to date substantially in accordance with the requirements of the Construction Agreements or substitute construction agreements (including, but not limited to, the Guaranty).
- (iii) Except as may be stated on <u>Exhibit C</u> attached hereto, all permits required to construct the Project at this stage of construction have been issued and are in full force and effect, and the Construction Monitor has no notice or knowledge as of the date hereof of any actions pending to revoke any of such permits.
- (iv) This Requisition is for costs that constitute Project Costs and that have not been the basis of any prior Requisition for Payment from the PILOT Bonds Project Fund, including without limitation the Series 2009 Additional Rent Account therein. This Requisition contains no items representing payment on account of any amounts not yet required or otherwise not permitted to be paid as of the date hereof.
- (v) To the best of the Construction Monitor's knowledge, except as may be stated in <u>Exhibit D</u> attached hereto, (a) construction of the Project is proceeding on Schedule and (b) Substantial Completion of the Project will occur by the Scheduled Completion Date.
- (vi) To the best of the Construction Monitor's knowledge, the Construction Monitor has no reason to believe that the funds needed to achieve Substantial Completion of the Project will exceed the amounts available under the PILOT Indenture.
- (vii) To the best of the Construction Monitor's knowledge, the Construction Monitor has no reason to believe that the funds needed to achieve Substantial Completion of the Infrastructure Improvements will exceed the amounts available under the Trust Agreement.
- (viii) The proceeds of all prior Draws have been expended solely for the purposes for which they were requisitioned.
- (ix) No event or discovery has occurred which would give rise to the right of the Company to terminate the Lease Agreement in accordance with the provisions of

- Section 16.2(a) thereof and no Hazardous Materials notice has been delivered in accordance with such Section.
- (x) The items of cost set forth on <u>Exhibit A</u> attached hereto are correct and proper under Section 5.02(c) of this Master PILOT Indenture and each such item has been properly paid or incurred as an item of Project Cost.
- (xi) Except as otherwise permitted in the Tax Certificate, no item of cost set forth on **Exhibit A** attached hereto was incurred or paid prior to <u>NA</u>.
- (xii) The payees and amounts stated in **Exhibit A** attached hereto are true and correct and each item of cost so stated is due and owing.
- (xiii) It has no knowledge of any vendor's lien, mechanic's lien or security interest which should be satisfied or discharged before the payment herein requested is made or which will not be discharged by such payment.
- (xiv) Each item of cost set forth in **Exhibit A** attached hereto is consistent in all material respects with the Tax Certificate.
- (xv) To the extent a payment herein requested is a reimbursement to the Company for costs or expenses of the Company incurred by reason of work performed or supervised by officers or employees of the Company, such officers or employees were specifically employed for such purpose and the amount to be paid does not exceed the actual cost thereof to the Company and such costs or expenses will be treated by the Company on its books as a capital expenditure in conformity with generally accepted accounting principles applied on a consistent basis.
- (xx) Each item of cost for which payment is herein requested is chargeable to the capital account of the Project for Federal income tax purposes, or would be so chargeable either with an election by the Company or but for the election of the Company to deduct the amount of such item.
- (xxi) (A) No Default or Event of Default has occurred and is continuing under the Bond Documents or the Lease Documents nor any condition, event or act which, with notice or lapse of time or both would constitute such a Default or Event of Default or (B) the Guarantor is performing Guaranteed Work pursuant to the Guaranty.
- (xxii) Each condition precedent to the PILOT Bond Trustee's obligation to approve the requested Draw, including all applicable conditions in Section 5.02(c) of the PILOT Indenture and Section 2.13 of the First Supplemental, has been satisfied.
- (xxiii) There have been no material Change Orders other than those permitted by the Construction Management Agreement.
- (xxiv) Attached is a true and complete copy of the approved Project Budget. Moneys and/or Additional Rent Account Credit Facilities on deposit in the PILOT

Bonds Project Fund, including the Series 2009 Additional Rent Account therein, are sufficient to pay the amounts set forth in the approved Project Budget attached as Exhibit E hereto.

(xxv) This Requisition constitutes the representation and warranty that the information set forth in this. Requisition is true, accurate and complete in all material respects.

(xxvi) The Construction Monitor has been provided with and approved (a) a complete schedule of bills or invoices supporting such requisition (stamped "paid" if reimbursement is to be made to the Company) or other evidence reasonably satisfactory to the PILOT Bond Trustee including evidence that the bill, invoice or other evidence was not incurred or paid on a date prior to September 11, 2009 except as otherwise provided by the Tax Certificate, (b) a partial waiver of lien from any contractor which is being paid from any disbursement and (c) evidence that any vendor's lien, mechanic's lien or security interest, recorded in the lien book maintained by the Trustee, which will not be discharged by such payment, has been either (i) resolved (or will be resolved) in accordance with the Resolution Notice; (ii) bonded or otherwise discharged; or (iii) secured by an undertaking, the form of which has been certified by the Company as being in accordance with the applicable requirements of the Lease Agreement and satisfactory to LDC; provided that no such evidence shall be required if the Series 2009 PILOT Bonds Construction and Acquisition Subaccount in the Senior PILOT Bonds Construction and Acquisition Account of the PILOT Bonds Project Fund Series and the 2009 Additional Rent Account in the PILOT Bonds Project Fund contain in the aggregate at least 110% of the amount of all vendor's liens, mechanic's liens or security interests recorded in the lien book maintained by the Trustee that have not otherwise been bonded, secured or discharged.

This Requisition and the accompanying supporting documentation are submitted to the Bond Trustee for the purpose of inducing the PILOT Bond Trustee to approve the Draw, and the Construction Monitor intends that the PILOT Bond Trustee shall be entitled to rely upon each of the same as being true, accurate and complete in all material respects.

- (d) If this Requisition is approved for payment and all other conditions precedent to the PILOT Bond Trustee's obligation to make the Draw are satisfied, please disburse the Draw on \_\_\_\_\_\_ 20\_, as follows:
  - (i) **§ 12,431,654.79** by wire transfer to:

Bank Name:

JPMorgan Chase Bank

ARA#

021000021

Account Name:

Brooklyn Events Center, LLC

Account Number:

837 489 632

IN WITNESS WHEREOF, the Const duly executed as of 12/23/10	truction Monitor has caused this Requisition to be 2010.  Tobed Mull As Construction Monitor
	By Morritt Harris Inc. Name: Bobert a Weiland Title: Frincipal
ACKNOWLEDGED BY: THE BANK OF NEW YORK MELLON	
By Name: Title:	
BROOKLYN EVENTS CENTER, LLC	
By Name: Title:	

## Exhibit A to Requisition for Payment

Details of the requested Draw:

SEE ATTACHED

Exhibit B to Requisition for Payment
Description of notices from the Contractor: None

Description of variances:

<u>Exhibit C to Requisition for Payment</u>
Description of actions pending to revoke permits: None

Exhibit D to Requisition for Payment
Description of construction delays and/or cost overruns: None

## Exhibit E to Requisition for Payment

Copy of Approved Budget

SEE ATTACHED

\_\_\_\_

## SCHEDULE A TO REQUISITION NO. 8

Amount	Payee (with address)	Purpose
Receip connection wi	t is hereby acknowledged of a th the submission of the attached F	payment in the amount of \$_70,522,342.22 in Requisition.
		BROOKL (NEVENTS CENTER LLC)  By  Name:  Title:
Date:		

EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
SUMMARY

	ব্য	( <del>6</del> )	(2)	Ð	(5)	@ - @ - @	(0) - (C-F)	B
	Bageal	Hone	princes	Applications	Coffee	Total Evidences	(Separation)	Approximated
	, deposit	by 15 cas	2 P. S.	Feducati	Gen what	No Juin	Stories	4,775.5
हीक Asquiskbp, <u>Coets</u> :	921,251,153	43	124,135,125	124,126,125	۵	व्याद्वागरा	9	,
Hard Corbit.	47	1380 033 17	200 000 700	2002	5	0.00	2	7
GC/CM Far	60,694,032	1,746,000	E2,440,032	14,855,477	700,907	(8,065,381	16,374,651	105.043
Huni Add / Albernais Altowarios for She Regit, & FFLE	0	30	Dec. St. 4(b)		90	0	0	• •
Preconstitución Estimating Services Permits, Bonds	11,336,609	0 500.003	11,386,605	10.927,403	0 625	10,927,403	408,406 7 020,951	٠ ،
Owner's Testing/Burvey	906045	200,000	2,040,608	349.062	115,870	128'905	1,534,68	. •
Owins's Design/Scope Confingency Total bland Courts	30,711,746 CON 1729 1050	( ( E00.000)	33 171.748	0 111	0 (1.4	O O O O O O O O O O O O O O O O O O O	25,811,748 gan 256 945	4 74 H 409
Seri Crass and Others						A Prince		
Activities to Engineering	98,246,748 4 0 1 0 0 0 0	1,500,000	100,346,740	77),753,23	35.480	93,484,461	8,862,298	
Development Conta	45,000,000	- 0	46,000,000	38,222,780	<b>0</b>	36,222,760	0.777,220	• •
Project Expenses / Martinting Theirence / Commencionen / Other	29,245,305	000,071 247,990 C	29,415,305	22,607,733	35,261	22,942,894	0,472,311	, ,
Development Contridency	2,871,785	D	2,671,705	D D	0	0	2,071,785	,
Total Both Coats & Other	162.100.049	\$90'312'\$	(86.847,254	(52,701,85)	3,325,488	467 1867 433	29,785,016	•
Tellal Project Costa	\$84,281,783	٥	\$10,735,100	185,020,285	12,431,968	368,066,227	HI FITTU	4,710,382
Total AP	•			(\$64.83¢)	(7,310)	(366.145)	388,145	1
Total Linkship	2	9	3	(348,835)	(0167)	164 1 494	#77X	49
TO Tal Inches	Park Sales Section	•	017,000,710	247 114 124	120 147 41	Call Pass (m)	And And and	4 7 4 8 4 8 9
	(a) Village Market		CDV LOOP AND	300 Mg A 11	2000	201 M M 1982	October (A.1)	×45.01 /**
£21/8:454		•						
Connibution from AMCANTS	(400,000,010)	0	(431,806,000)	(000,000,107)	٥	(397,000,000)	2	
Tox-Exernent Bond Proceeds	1266'866'91\$)		(\$10,000,997)	(112,601,438)	0.4	(113,601,438)	(35,080,780)	
Projected Interest Estating on Band Fland (Pract to Vecent Posteration)		_	(050,TC2,1)	(1,637,350)	3 0 1	(ase:188,1)	(C) (C)	
			d 777' I BAT' DI	2	3	3	(121,124,0)	
<ul> <li>Costs of Financing from Bond Proceeds and certain Inspect Earnings</li> </ul>		٩	116,538,780	115-54 1,730	•	115.63.8778	O SOCIETY OF THE PERSON OF THE	
Total Construction Appeals Sources	10.00 pt	100000000000000000000000000000000000000	A. A.	Control of the Party of the Par	70	THE PERSON NAMED IN	Section 1	
Additional Rent  Property Interest Commence the Manual areas and	(090,217,260)		(396,712,880)	(272, 106, 106)	(12,431,655)	(254.537.722)	(112,175,150)	
Projected Mercel Earthrys on Additional Retri Account Section Court of Issuance Through is Additional Sent Actual	(252,64°)		(34 265)	0 % 4	) in c	0 260	(784 255)	
Non-Asset Account Escroy.  Descripto Additional Rest Account from Non-Asset Account Escroy.	9 6	-		18 113 602	00	0	0 0 (2) (8)	
Additional Rand Account Babries		Total State of	No. 11 No. State Control of the Cont	100	A STATE OF STATE OF			
Costs of Phistoprog from Additional Root and cartists Interest Earnings	C# 41.70	0	PR.CV.AN	FL,273,23	۵	12/11/20	वाटर	
Total Additional Rate Sources (Next of COS)	DST.777 JOH	4	OR.77 EM	(224,347,405)	112,431,685)	(238,749.058)	131,027,446	
TOTAL SOURIZES (NET OF CO)	(704,281,734)	Q	(604.245.750)	565,288,428J	[12,431,645]	(\$67,708 AB1)	17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
							4	
Additional Rent Account at Vacant Poutassian (5-12-10)	17.07.162		Ц	10,022,443	12,421,685	13,680,517	131,014,705	
COLUMN ACCOUNT CHANGE IN VALUE IN PARTIES AND ACCOUNT OF THE PARTIES AND AC	SAD DATE OF				]		**************************************	

EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
ARENA BUILDING

•	(A)	(B)	(2)	( <u>o</u> )	( <u>e</u> )	(F) = (0+E)	(3) = (5-5)	E)
	Arena Budding Ranget	នាល់ ១០១៦ ខេត្តមាន	New sard Stroped	Prew consty Expectation	Current Regression	Foral Exponent 8, mate	Sensa chuj Balance	Retainage To Dece
Site Acquisition Costs;	124,125,126	0	124,125,125	124,125,125	ð	124,125,125	a	•
Hard Greets.		1 de 040 es	C		32.7	-	207 300 000	rao you c
OC / CM Fee	58.642.649	(3.5,042,05)	58.542.649	13.805,789	1,085.219	15,001,008	43.641,641	199'508'5
GMP Contingency	09,679,360	0	18,679,350	5	0	5	19,679,350	1
Munit Add / Alternate Allowance for Site Regs. & FF&E	0	0	20 10 10 10 10 10 10 10 10 10 10 10 10 10	8	56	0 33 710 9	<b>a</b> c	•
Principal design Examples Services Permits Bonds	COC, \$18,0	S C	500,014,0	373.759	58.743	432.301	317.498	' '
Owner's Testing/Survey	1,341,007	0	70011871	309,052	103,283	482,346	948,862	•
Owner's Design/Scope Contingency	22,619,332		22,819,23			13	22,819,332	•
Total Hard Costs	010,161,703	(3,236,386)	14.1 836 COS	68,622,288	6,012,164	74,634,432	478,322,194	1,805,981
Arrhitecture & Engineering	D3 738 840	(PR) DIM	02 27R R9G	96 731 76u	BR1 DK	F7 417 722	4 881 096	ı
	2.665.000	(200'ams)	2 885,000	771.235	25.480	788 713	1,668,287	'
Development Costs	45,000,000	0	45,000,000	36,222,780	8	36,222,780	8,777,220	
Project Expenses / Marketing	506, 260, 85	0	500,580,05	22,700,167	30,552	22,733,718	6,351,588	•
Insurance / Commissioning / Other	3,128,084	2,724,281	5 B50 246	890,848	2,059,737	2,960,580	2,896,763	,
Development Contingency	2,671,795	0	2,671,798	6	8	6	2,671,785	•
Total Soff Costs & Other	£90,787,871	1,784,281	177,551,284	147,324,794	2,789,726	160,124,516	27,425,746	•
1	967 408 448	14 (1999 42)	45 654 644	340 473 486	4 844 888	14B BBB 074	AKE 746 DAN	1 Ank All 1
וחשו בנחפרו בפרום	301, 108, 136	1,000	and constant	2 mina	nagi na's	a la	ALACE PINE	
Yokal AP	6	6	a	(351,016)	(016,7)	(368,326)	358,326	•
Total Liability	8			(381,015)	(012,7)	(366,325)	250,93£	,
TOTAL USEBS	821,481,188	(1,477,124)	BOE, 653,014	139,721,171	1872,408,6	05L'503'875	457,107,286	3,404,941

EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
TRANSIT CONNECTION

	•	⟨€)	(8)	( <u>C</u> )	(0)	(月)	(F) • (D•E)	(G) • (C-P)	(H)
		Trains 3.5 or en ottech Busqet	Sudjet Receptors	Second Ordan	Previously Experience	Survey	Total supported to date	Someonia Banthan	Retainage No Pate
	She Acquitation Contro	0	0	0	0		0	0	
	Hard Coets; Trades	58.524.500	(11 448,000)	57,078,500	5.465.894	2,832,817	8.396.711	48.679.789	807,368
	GC/CM Fee	0	1.746,000	1,746,000	849,698	114,886	1,064,973	681,627	105,043
	Phun Add / Alternate Alfowance for Site Reps. & FF&E	<b>&gt;</b> 0	9 0	9 0	50		0	0	
	Preconstruction Extinuating Services	2,282,244	0	2,282,244	1,981,240		1,981,240	301,004	
	Permits, Bonds	1,166,850	(200,000)	668,850	787,306	42,083	348,890	317,870	
0	Owner's Testing/Survey		960,090	600,000	•	12.577	12,577	487.423	
_	Owner's Design/Scope Contingency	6,033,960	(1,800,000)	4,233,880	٥		0	4,203,960	
*	Tetal Nard Costs	1997 LOU'SM	(1,000,000)	66.507.684	1,703,819	3,102,181,82	11,805,781	F. 181,773	912411
2 2	Soft Costs and Other			•	O				
5	Architecture & Engineering	3,517,848	1,500,000	4,617,848	3,078,385	96,550	3,172,835	1,444,913	
_	Legal	163,180	0	183,180	163,160		163,180	<del>-</del>	
	Development Costs	- ·	0	0	0		9	0	
9 9	Flight Expanses / Marketing	מגה אפר	000'62'	000/521	74.75	5,55	ישושה	174 78	
2	Development Confidence	0	0	0	0	Š	0	0	
23	Total Beft Coats & Other	3,666,094	1,698,099	5,481,197	1,378,367	371,223	3,764,590	1,706,647	•
8									
23	Total Project Costs	X39 CTB, FT	560'956	71,968,761	12,081,987	78C'827'S	15,500,277	68,408,380	912,411
2 2 2	Total AP	8			(7,820)	8	(0.28.7)	7,820	
R 12	Total Liability	6	3		(0.000/)	8	(OCD)	7,020	
2									
8	TOTAL USES	11,573,662	366,088	74,988,751	12,874,198	2470,344	16,662,691	56,418,200	912,411
i	•								

\$

EXHIBIT A
BARCLAYS ARENA
REQUISITION # B
ARENA SITEWORK

	-	₹)	(8)	(0)	Θ)	( <del>S</del> )	(F) = (D+E)	(G) = (C-F)	(¥)
I		Army Sitywork Sudget	Rodinal Registeries	Bergesch Studiet	Proposaly Kopanden	Current Gogs ston	Tenal Expensed to date	Remaining Balanca	Retaineds To Date
<b>#</b>	Site Acquisition Contro	0	0	0	đ		0	a	
<b>期</b> 足 8	Herd Coets:	15,734,060	•	16,734,080	332,012		332,012	15,402,049	
3 B:	GC / CM Pee GMP Contingency	0	00	1,888,087	•		00	1,888,087	
£ 5	Humi Adul / Alternate Altowance for Site Reng. & FF&E Preconstruction Estimating Services	000'053	00	000'051	31,598		31,598	118,402	
2 2	Vermitz, Bonds	354,016	<b>•</b>	354,016	0 0	(848)	(848)	354,864	
ර්තී	Owner's Design/Scope Contingency	1,817,284	00	1,817,284	<b>3</b> 0		0 0	1,817,284	
희	Total Hand Copts	20,143,346	0	20,143,349	353,610	(848)	362,762	19,780,587	•
<b>8</b> 5	Soft Costs and Other Architecture & Engineering	2,460,631	000'098	3,420,631	2,787,872	86,470	2,864,342	982'958	
<u>5</u> 8	egal	B 0	00	۵0	00		00	• •	
8 1	Troject Expenses / Marteting	160,000	45,000	205,000	170.450	1,183	171,833	33,367	
8	exelopment Confinition of Confinition of Confederacy	0	0 ( 7,042	0, 961	0	/90/10	0 0	D C	
펻	gtal Both Copts & Other	2,707,307	1,077,026	3,784,332	2,999,520	149,540	3,148,87B	635,453	•
R	The state of the s	OH COR	2000	125,407,45	17.9.00				
일 2	Total AP	0	משמיין אחיין	C3,044,900 I	O C	786/201	C C C C C C C C C C C C C C C C C C C	0	
2	Villan) Roll			1	8	- 6	a		,
			-						
힏	TOTAL USÉS	1 998,984,XX	1,077,025 }	23,827,681	\$,362,948	148,892	3,811,840	20,410,041	
۱									

EXHIBIT A
BARCLAYS ARENA
REQUISITION #8
ARENA MITIGATION

	•	€,	(B)	(0)	( <u>a</u> )	(E)	(F) = (D+E)	(G) = (C-F)	(£)
		Arena Mingation Sudipet	Budget Mer stons	Russed Builtet	Provincial Enembed	Carrest Requisition	Yotal Expended to date	Remaneng Eglande	Retairage To Date
- 0	Site Acquisition Costs:	0	0	0	۵		0	0	
4 M 🖜	Herd Coeffs: Trackes	2 200 800	a	2.200.800	80.690		80.690	2,120,110	
60	GC / CM Fee	163,286	0	163,296	a		•	183,296	
<b>40</b> 1	GMP Contingency	0	0 6	0 0	0 0		٥٥	0 6	
. 100	Proconstruction Estimating Services	20,000	0	20,000	0		• •	20,000	
95	Permits, Bonds	30,618	0	30,818	0		a	30,618	
20	Owner's Teeting/Survey	0	0	0	0		0	0	
=	Owner's Design/Scope Contingency	241,172	8	241.172	0		0	241,172	
12	Total Hard Courts	2,686,888	0	2,686,896	969'04	6	90,690	2,605,196	•
2 3	February Street Street								
40		28,451	•	15),451	28,461		28,451	0	
46	Legal	0	0	0	0		0	0 4	
¢ :	Development Coats	0 0	0 6	0	0		<b>-</b>	<b>-</b>	
2 2	Project Expenses / Markening Misurance / Commissioning / Other	17.010	9 0	17.010	0			17,010	_
8		0	0	0	0		0	0	
7		45,481	6	46,481	28,461	0	191/62	17,010	•
R									
2	Total Project Costs	2,732,547	0	2,732,347	140,141	0	410,141	2,622,206	
<b>X</b> X	Total AP	6			0	٥	Ō	0	
38							0		
27	Total Lisbility	ā	В	0	-	Ó	_	0	,
20	_								
8	TOTAL USES	2,732,347	0	2,722,347	110,141	٥	110,141	2,622,206	

## ARENA REQUISITION #4

Sum of Reg #0		THE RESERVE OF THE PARTY OF THE	Respublican Sheet			
Regulation Line	Vendor mape	invoice .	AMENA-BILDS	ARISMA-TILANST	ARENA-ETENORIA	Great Total
M - Trades	Hurs Construction Group inc.	APP1287-011 8A	4,712,497.13	7		4,712,497
	Humi Construction Group Inc. Total		4,712,497.13			4,712.49
	John Chelta and Sons, Inc.	APP004-1878	47 (2,424:10	2,832,817.00		2,832,617
	John Chresta and Sons, Inc. Total		· · · · · · · · · · · · · · · · · · ·	2,632,917,00		2,932,617.
	Simple Gennell LP	APP002-1926	(24(7.2)	2,032,017,40		42.412
	Simplex Stinned LP Total	Primitize 1920				
d Person Trans	Suidence Charles Co. LORE		(2,412.21			42,412
4 - Tragles Total 5 -GCICAL Fas	· · · · · · ·		4,754,900,54	2,902,817.00		7,857,726
IS -GC/CM F86	Hurs Gonstrugtion Group Inc.	APP1287-011 BJ	1,095,218.97			1,085,218
	Hunt Construction Group Inc. Tos		1,095,218,97			1,096,218
	John Chretta and Sons, Inc.	APP004-18798		114,685,00		114,685
	John Cilvette and Sons, Icc. Total			114,686,60		114,688
6 -QCACN Fee Total			1,095,218,97	114,685,00		114,686 1,206,803
9 - Permits & Bones	Ann Plak Services Company	4400000083889	(21,297,60)	(2,855,00)	(847,50)	(25,000
•	Aon Raix Sendoes Company Total		(21,297.50)	(2,886.00)	(847,50)	25,000
	Jam Committeets trac.	TAPPO02	60,040,00	/goodej	10,7,007	80,040
	Jam Consultania Inc. Yotal	per tous	80,040,00			80,040
	John Civetta and Sone, Inc.	APP004-1876	adjoració	44,936,00		44,838
	John Chatte and Sons, Inc. Total	[APT-004-1076				
9 - Permits & Bonds Total	THE REST PROPERTY LEGISLATION AND LEGISLATION			44,936.00	J. J. J.	44,838
9 - Pennini a gencii recii 0 - Owners Textino		I. BARAL INC.	58,742.50	42,083.00	(647.50)	94,978
D-Owners Texning	Altaritic Engineering Laborator	APP001-1941		12,578,82		12,576
		APP006-1880	75,863.14			76,883
	Attends: Engineering Laborator To	***	75,860,14	12,578.82		80,439
	Langum Engineering & Environ.	APP8-0166773	27,429.95			27,429
	Langer Engineering & Engine. T	oto	27,429,95			27,426
0 - Owners Yeating Total			103,293.09	12,576,82		115,909
6 - Architecture & Engineeding	Burwood Group, Inc.	IAPP#6	8,596,69			8,598
, , , , , , , , , , , , , , , , , , ,		APPET	8,690,44			9,630
	Burwood Group, Ing. Total		15,227.03			15.227
	Hunt Construction Group Inc.	APP1287-011 8A	408,671.00			408,871
	Hunt Ophstructon Group Inc. You		406,571.00		-	408,871
	Leven Silvermen Conservation	TAPP12-02033380N	11,722,25			11,722
	Lovet Silvermen Construction To			_ <del></del>		
			11,722.25		- 42 - 22 41	11,722
	Shop Architects PC	090705-19 Flaza			66,469.64	66,469
		090705-19 Rev	248,333,08			248,333
	Shop Architects PC Total		248,333,98		66,469.84	\$14,508
	Stanting Consulting Servicesian	APP 12-449578		90,550.16		95,350
	Stantac Consulting Servicestru: T	otei		96,550.16		96,850
5 - Architecture & Engineering Total	•		683,954,28	98,550,18	66,466,84	846,974
6 - Logal	Howrey, LLP	9010044130	141,00			141
_		9010044603	1,410,00			1.410
		9010048652	283.87			263
	Howing, LLP Total	100.00	1,834,87			1,834
	Paul Welse, Rithling, Whilerian	245333	3,962.28			3,962
	Lawr Assess Lobusty Animality	245334				
	Buil states Colored Like and the		6,593.35			6,593
	Paul, Wells, Relend, Wherlan Tol		10,555.83			10,555
	Thompson. Hins And Flory	2358894	9,192,58			9,192
		2356995	780.75			788
		2374739	824.00			824
		2370239	2,284.28			2,264
	Thompson Hine And Flory Total		13,069.81			13,089
B - Legal Total			25,480.11	-		24,480
8 - Project Expenses/Merketing	Derryt E. Greene & Associates	65EC-2010-8	26,201.44	3,526.36	1,163,17	31,000
	Carryl E. Greens & Associates To		26,297,44	3,525,39	(,183,17	31,000
	Bardon LLP	1179247	4,251.00	0,00000	1,19417	4,261
	Bendon LLP Yotal	[11196/11	4,281,00		+	4,261
- Project Exponses/Mentering Total	Design CFL 100m		30,582,44	A par no	- 141 191	4,201
5 - Total AP	India Park (Mala Park	Trans Na		3,525,38	1,163,17	36,281 (7. <b>308</b>
or IULE AP	Fried, Frante, Harris, Stutver	108385	(7,309:72)			
	Fried, Frank, Harris, Studyer Total		[7,309.72]			(7,309
5 - Total AP Total			(7, <b>309.72</b> )			(7,300
0 - Insurance/Commissioning/Offser	Willis of New York, Inc.	1007928	987.159.25	132,384.37	39,205.38	1,158,729
		1009462	1,072,377.96	143,782.61	42,681.53	3,258,042
	Villes of New York, Inp. York	<del>'</del>	2,069,787.21	278,148,98	81,866,91	2,417,771
					o - Longitude 1	
9 - (mauremon/Commissioning/Other Total			2,069,787,21	270,146,98	81,096.91	2,417,771.

## OWNER CHANGE ORDER SUMMARY

	As Budgeted on OPA	•	,	•	21,005.00	23,077.00	16,797.00	•	,		•	•		•			478,963,753.00	8,839,018.00	467,802,771.00
	As Bi		4.5																
i b	20		07			*	ly ly	. 76	25		1:	*	3	11		27	(4) W	S.	- Constitute and the
	Cumulative Total	478,902,874.00	478,902,874.00	478,902,874.00	478,923,879.00	478,946,956.00	478,963,753.00	478,963,753.00	478,963,753.00	478,963,753.00	478,963,753.00	478,963,753.00	478,963,753.00	478,963,753.00			FCRC Contract Value	CCE	Should match contract value on Comb OPA
		ь	69	S	<b>\$</b>	<del>69</del>	<b>64</b>	<b>6</b> 3	69	<b>69</b>	<b>⊌</b> >	89	Ś	69			5	8	ract
Change Order	Value	•	•	•	21,005.00	23,077.00	16,797.00	•	•	,	•		•	•	3,208,246.00				uid match conf
ပ		49	<b>69</b>	49	49	₩	<b>⇔</b>	₩	69	5	₩	**	w	49	**				<b>8</b>
Total Previous	Change Orders	3,147,387.00	3,147,367.00	3,147,367.00	3,147,367.00	3,168,372.00	3,191,449.00	3,208,246.00	3,208,246.00	3,208,246.00	3,208,246.00	3,208,246.00	3,208,246.00	3,208,246.00					
	_	吟	<b>₩</b>	01.3	<b>\$</b>	S S	sit \$	<b>%</b>	е 8	ot \$	₽ Se	Br \$	9	<b>%</b>					
		Budget Transfer from site req to United Fence	Budget Transfer Temps site to MFM Contract	Budget Transfer Temps site to MFM SCO-01	Additional SOE for Con Ed Vault	Add' Egineering to Previous SOE Plans	OT work in prep for Owner Visit	Budget Tranfr Install of 1st Phase of Crane Pad	Budget Tranfr EJ Ermoo Generator enclosure	Budget Transfer Laquila PPE Mobit Lot	Budget Transfer Laquila Lay Down Area Banker	Budgel Transfer United Hoist Ph 2 Sidewalk Br	FCRC Void Change Order	Budget Transfer COW GC Mockups					

## 11/20/2010

## OWNER CHANGE ORDER SUMMARY

	Total Previous	ບ	Change Order	•			-	
	Change Orders		Value	b	Cumulative Total		As Budgeted on UPA	
Original Contract Value less CCE				<b>.</b>	475,755,507.00		475,755,507.00	
Budget Transfer (Low Voltage Scope from Olivision 17 to		6			00 500 005 055			
SI NOISIANO		** ^		•	00.100,001,014	4		
Banker Steel OCIP Deduct 1	•	➾	(895,700.00)	<b>69</b> 7	474,859,807.00	6	(895,700.00)	
Budget Transfer	(895,700.00)	<b>*</b>		₩	474,859,807.00	64	•	
Laquita OCIP Deduct SCO #1	(895,700.00)	₩ ••	(1,770,921.00)	( <del>/)</del>	473,088,886.00	63	(1,770,921.00)	
Almar OCIP Deduct	(2,666,621.00)	\$ <b>?</b>	(220,000.00)	<b>~</b>	472,868,886.00	64	(220,000.00)	
Design - On Grade Bus Ramp	(2,886,621.00)	<i>⇔</i>	57,316.00	<del>69</del>	472,926,202.00	69	57,316.00	
Design - Wind/Falling Ica	(2,829,305.00)	<b>⇔</b>	(29,500,00)	<b>5</b>	472,896,702.00	8	(29,500.00)	
Design - Sight line Study for Hockey	(2,858,805.00)	<b>\$</b>	2,928.00	64)	472,899,630.00	69	2,928.00	
United Holst - Upgrade Fence	(2,855,877.00)	\$	249,994.00	<b>\$</b>	473,149,624.00	69	249,994,00	
United Holst - Fence @ Lot 21 Demo	(2,605,883.00)	8	226,372.00	69	473,375,996.00	•	226,372.00	1287-02
Reassign Structural Precess to Banker	(2,379,511.00)	ø <b>?</b>		ĿÆ	473,375,996.00	69		
Unlied Holst Ph 2 Upgrade	\$ (2,379,511.00)	<b>\$</b>	554,780.00	69	473,930,776.00	69	554,780.00	48K to Demo
	\$ (1,824,731.00)	8	7,746,950.00	*	481,677,726.00	69	7,746,950.00	1287-03
Orbs OCIP Deduct \$	5,922,219.00	63	(53,162.00)	64	481,624,584.00	43	(53,162.00)	
ASI OCIP Deduct \$		69	(1,066,100.00)	•	480,558,464.00	5	(1,066,100.00)	
Separate CCE and GMP §	4,802,957.00	_	\$0.00	67	480,558,464.00	69		
H Mak Inc OCIP	4,802,957.00	<b>\$</b>	(153,200.00)	69	480,405,284.00	69	(153,200.00)	
American Stafr OCIP \$	Ī	8	(20,916.00)	63	480,384,348.00	69	(20,916.00)	
2 COO military about 1 complete the state of	A 628 841 00	6	51 G18 00	<b>~</b>	480 436 288 M	4	51 918 00	% 407 in Damo
או האל וישוחים אמים מלה מיום וישור מיום בי א הכס	4,020,04 L.00	9	00.010.10	<b>&gt;</b> (	00.001,001,001			
Con Ed Network Room Relocate	4,680,759.00		75,000.00	64 (	480,511,265.00	<b>A</b>	00:000's/	
Reconciliation of prevolus OCO 1 thru 20 \$	4,755,759.00			<b>.</b>	480,511,266.00	•	•	4
Super Haz Material Trucking \$	4,755,759.00	<b>64</b>	323,255.00	<del>69</del>	480,834,521.00	6	323,255.00	1287-03
District Transfer Constant Albanos in ACI for Clarence	5 070 044 00		,		ARO R34 521 00	J	•	
Salar Silver of the salar substantial salar sala	00.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	•	2000	•	201201001001		100,000,000	
For Early Payment to ASI	5,079,014.00	•	(435,000.00)	en e	96,527,084	A 4	(433,000,00)	
United Holst Ph 2 OCIP	4,644,014.00		(131,000.00)	<b>*</b>	480,268,521.00	A .	(131,000.00)	(\$5,240) to Demo
OCIP Deduct EJ/Ermco	4,513,014.00		(455,825.00)	y G	479,812,896.00	<b>,</b>	(455,625.00)	
JE Thompson OCIP Deduct 1	4,057,389.00		(2,000.00)	ь.	479,807,896.00	*	(5,000.00)	
Staging Concept OCIP Deduct 1	4,052,389.00		(79,888.00)	<b>6</b>	479,728,008.00	<b>6</b>	(79,888.00)	
Site Security COW-GC transfer 1	3,972,501.00	<b>\$</b>	•	<b>↔</b>	479,728,008.00	69	•	
Commodore OCIP Deduct 3	3,972,501.00	<b>₩</b>	(279,000.00)		479,449,008.00	<b>\$</b>	(279,000.00)	
Deduct Food carts from H Mak scope §	3,693,501.00	<b>\$</b>	(692,721,00)	₩.	478,756,287.00	64	(692,721.00)	
Design Elevator Hoistway 1	3,000,780.00	<b>%</b>	29,243.00	s	478,785,530.00	69	29,243.00	
Hunt Laquita Maz & Super Haz Disposal	3,030,023.00	<b>4</b>	32,330.00	<b>₩</b>	478,817,850.00	\$	32,330.00	1287-03
Design Con Ed Network Rev Rm Layout	3,062,353.00	<b>\$</b>	3,120.00	<b>↔</b>	478,820,980.00	69	3,120.00	
Partial September Reconcilitation 1	3,065,473.00	<b>\$</b>		\$	478,820,960.00	60	•	
Add Pass thru Window w/ Heat tamp	3,065,473.00	<b>%</b>	61,795.00	<b>5</b> 7	478,882,775.00	<b>~</b>	61,795.00	
Relocate gate; renove plywood; replace chainlink fence					253			
per DOT / DOB	3,127,268.00	<b>\$</b>	20,099.00	ь	478,902,874.00	<b>\$</b>	20,099.00	
		8		S	478,902,874.00	69	•	
Budget Transfer Ceveta from excav to COW GC \$		89		<b>6</b> 4	478,902,874.00	<b>6</b> 4	•	

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Period from 0.001/1980 to 11/23/2010

8 8 800 80 8 8 9.0 8 800 8 8.0 89 000 8 8 8 8 8.0 00.00 800 8.0 8 80,611,06 Pending Change 9.0 0.00 90.0 8,0 000 0.0 3 900 0.00 000 8.0 9,0 80.0 8 900 9.0 8 00.0 90.0 0.00 800 90.0 8 9.0 Pandles Contracts (3,450,600.00) (724,000.00) (9,070,000.00) (19,879,310.00) (940,000.00) (234,000.00) 2,250,000.00) (18,000,00) (30,000,00) (48,000.00) (160,000.00)(33,000.00) (63,475,00) (245,000,00) 560,000.00) 3,232,367,00 3,450,600.00 724,000.00 19,679,310.00 1,551,475.00 470,543,512.00 9,070,000,00 Revised Contracts 0.0 0.00 8 0.00 900 000 9 90,0 90.0 (910,000,000) (19,000,00) (36,000.00) (48,000.00) (33,000.00) (300,000,345) (5,211,995.00) 3 9 0.0 ,551,475.00 (234,000,00) 2.250,000.00) (480,000,000) (53,475,00) Sep.000.00) 8 Approved Change 9 (3,450,600.00) 0.00 (724,000.00) (9.070,000.00) (19,679,310,00) 0.00 90.0 8,0 8 0.0 9 9.0 9 8,0 475,755,507.00 3,232,367,00 724,000.00 19,679,310.00 8 3,450,800.00 9.070,000.00 Approved Contracts 001 - At. SC-14 to design, furnish and install of one steel deck my 4LSC-13B - los Floor and Cusherboards- Ciraco Refrigeration I 001 - Transfer from trades budget to SC-13B for the Floor & Dash 002 - Trensfer from trades budget to SC-13B for the Floor & Desh Change Order 00001653-CR9015 Total 002 - AL SC-14 to design, furnish and install of one steel deck tru-Hunt. Award of the OMP Contingency from Trades Budget to C 001 - Award of the GMP Contingency from Trades Budgel to Con Change Order 00801653-CR0018 Total Hund - Rechart Ellerbee Beates Consultants to Single Cost Coc Change Order 60001 553-R0001 Total Ravised Contract 00001553 Total AL SC-05C - Staging Concepts Inc. · Ornamontal Metals · Rallin 102 - ALSCSC - omemental metats/railings and pozable platform Change Order 00001663-CR0014 Total Change Order 00001653-CR0016 Total Change Order 00001853-CR0017 Total 002 - Award of the GMP Contingency from Trades Budget to Con 001 - Redaas Ellerbee Beckel Consultants to Single Cost Code-009 - Rectass Effection Beckel Consultants to Single Cost Code -011 - Reclass Ellerbee Beckel Consultants to Single Cost Code -004 - Reclass Ellertoe Becket Consultants to Single Cost Code -006 - Recizes Ellerbes Becket Consultants to Single Cost Code. 003 - Redass Ellerbee Backet Consultants to Single Cost Code -007 - Recless Ellerbee Beckel Consultants to Single Cost Cods -AL 8C-03A Buperstructure Concrate - Commodore Constructio 012 - Recteas Ellerbee Becttel Consultants to Single Cost Code -010 - Rectass Effective Becket Consultants to Strigits Cost Code -Produkyn Events Center, LLC - Ne 53,1450-F.GT. A&E Consuli - Geotechnical - F.G. 1005 - Reclass Ellerbee Beckei Consultants to Single Cost Code -Broadlyn Events Center, LLC - Ne 53:0551 F.WD: A&E Consult - Wind Studies - F.V. 008 - Rednas Ellerbee Beckel Consultants to Single Cost Code Brockyn Events Center, LLC - Ne 53,0850-FME: A&E Consult - Mechanical - F.ME 002 - Ractess Ellenbee Beckel Consultants to Single Cost Code . AL BC-14 Truck Turntable - J.E. Thorspoon and Co. 001 - AL SC-03A Superidructure Concrete 002 - AL SC-03A Superatructure Concrete Line Iben ID - Description Description/Title Brooklyn Events Center, LLC - Ne 53.0701-F.AC: A&E Consult - Acoustical - F.AC Brooklyn Events Cerner, LLC - Ne S3,0650-F.ST: A&E Consult - Structural - F.ST Brooklyn Events Center, LLC - Ne SS. 1155-F.L.E. A&E Consult - Life Safety - F.L.I Brooklyn Events Center, LLC - Ne 53.1180-F.SQ; A&E Consult - Signage - F.SG Brooklyn Evants Center, LLC - Ne 53.0900-F.EL: A&E Consult - Elevator - F.EL Brooklyn Events Center, LLC - No 63,0850-F.LT; A&E Consult - Lighting - F.LT Brocklyn Events Center, LLC - Me 53.0810-F.FD: A&E Consult - Food - F.FD Brooklyn Events Center, LLC - Ne 53.1180-F.CC: A&E Consult - Code - F.CC Brooklyn Events Center, LLC - Ne 03J3000-0.0: Cast-In-Place Concrete - 0.0 Date Accounted Brooklyn Events Center, LLC - Ne 53,0500-F,CO: A&E Consultants - F.CO Brooklyn Events Certex, LLC - Ne 05.7000-0.0: Omementat Metal - 0.0 1006/10 11/15/10 SOZIMO 07M5M0 Broodyn Evants Center, LLC - Ne 18.1000-0.0: Contingency- GMP Brooklyn Events Center, LLC - Ne 14.4500-0.0; Verlicle LMs - 0.0 Brooddyn Events Center, ULC - Ne 13.1750-0.0; Ice Rinks - 0.0 Brooklyn Events Center, LLC - Ne 01.0001-0.0: Trades - 0.0 Brooklyn Events Center, LLC - Ne 01,0001-0.0; Trades - 0.0 Brooklyn Events Center, LLC - No 01,0001-0.0; Trades - 0.0 Brooklyn Events Center, LLC - Ne 01,0001-0.0; Trades - 0.0 Date Entered Coel Code 03/20/60 08/42/10 09/30/10 07/23/10 10/25/10 07/42/10 00001853-CR0015 00001853-CR0016 D0001653-CR0017 10401653-CR0018 00001653-CR0014 Funt Construction Group, Inc. (HUNGON) 00001863-R0001 Project Title Number Change Order 2101-0030-00 Change Order 2101-0030-00 Change Order 2101-0030-00 Champs Order 2101-0030-00 2101-0030-00 2101-0030-00 Change Drder 2101-0030-00 2101-0030-00 2101-0030-00 2101-0030-00 2101-0030-00 2101-0030-00 2101-0030-00 2101-0030-00 Change Order 2101-0030-00 2101-0030-00 2101-0030-00 2101-0030-00 2101-0030-00 2101-0030-00 Job Number 2

Total

80,611.00

80,611,00

800

470,543,512.00

(5,211,895.00)

475,755,507.00

Hunt Construction Group, Inc. (HUNCON) Total

475,788,507.00

Grand Total

(\$,211,895.00)

CORRECTIVIRATIONS

000 A - Contrained Contracts with Changes (Detrol)
Varieties

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TRANSIT CONNECTIONS Period from 01/01/1989 to 11/23/2010

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237,551.00 248,500.00 WSP Flack & Kurtz, Inc. (FLAKUR) Total Grand Total

485,851.00 56,087,861.96 6,569,712.63 58,518,149,43

524,479.00

8 170,289,00

Pandina Chenar Ordera

Pending Contracts

Rayled Contracts

Assroved Chenge Orden

Approved Contracts

Description (Title Line from 10 - Description

Deta Asproved

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Joseph Do St

## **EXHIBIT A**

Hunt Construction Inventory of Stored Material

Contractor Name

## SUMMARY OF MATERIALS IN STORAGE- REQUISITION NO. 1287-011 November 2010

GENERAL CONTRACTOR Hunt Construction Group, Inc.

## PROJECT NAME

Barclays Center Arena Brooklyn, NY Various Subcontractors Listed

MATERIALS LOCATED AT:

706,000.00 990,755.00 448,250.00 Amount of this Requistion ↔ ₩ 64 64) 2,783,900.00 1,300,000.00 15,600.00 5,441,705.00 Presently in Storage ₩ 69 ₩ ₩ 448,250.00 15,600.00 2,387,155.00 706,000.00 Value Added છ ₩ 69 64) Value Withdrawn 1,836,400.00 Previouly Stored 4,890,950.00 2,335,650.00 594,000.00 ₩ ↔ 69 Unit Price Quantity Description of Material ASM Mechanical Bankers Steel Co EJ/ERMCO JV **ASI** Limited

15,600.00

SF 364

Totals

2,160,605.00

69

1,836,400.00 | \$ 3,557,005.00 | \$ 9,541,205.00

7,820,600.00



## Work Permit Department of Buildings

Permit Number: 320100234-01-NB

Issued: 11/22/2010

Expires: 09/01/2011

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

620 ATLANTIC AVENUE

Address: BROOKLYN

Description of Work:

Contractor No: GC-604041

NEW BUILDING - REVIEW FOR ZONING, NEW BUILDING CONSTRUCTION.

Review is requested under Building Code: 2008

SITE FILL: ON-SITE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2009, please use "My Community" on the Buildings Department web site at <a href="https://www.nyc.gov/buildings">www.nyc.gov/buildings</a>.

Emergency Telephone Day or Night: 311 SITE SAFRIY PHONE ; 212 669-7043

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both. Borough Commissioner:  $\mathcal{U}_{\mathcal{A}}$ 

**ATTACHMENT 8** 



## Work Permit Department of Buildings

Permit Number: 320100234-01-80-PN

Issued: 11/22/2010

Explres: 09/01/2011

Address: BROOKLYN

NEW BUILDING - CONSTRUCTION ROUIPMENT

Description of Work:

620 ATLANTIC AVENUE

Business: HUNT CONSTRUCTION GROUP

Issued to: MARK GLADDEN

Contractor No: GC-504041

- PENCE REVIEW FOR ZONING, NEW BUILDING CONSTRUCTION.

Review is requested under Building Code: 2008

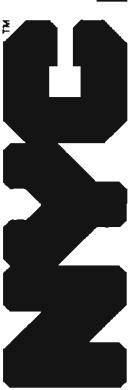
SITE FILL: ON-SITE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Atteration application filed after 7/13/2009, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner: (L. L. R. Commissioner of Buildings: (LLL)

Tempering with or knowingly making a false entry in or fedsely altering this permit is a crime that is punishable by a fine, imprisonment or both.



## Work Permit Department of Buildings

Permit Number: 320140682-02-8W-01

|ssued: 11/22/2010

Expires: 09/01/2011

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

620 ATLANTIC AVENUE

Contractor No: GC-604041

Description of Work:

Address: BROOKLYN

ALTERATION TYPE 2 - SHEET/SHOR/BRAC APPLICATION FILED FOR SHEETING, SHORING AND BRACING DETAILS IN CONJUNCTION WITH SUPPORT OF EXCAVATION ALONG ATLANTIC AVENUE.

Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2009, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:  $\mathcal{U}_{\mathcal{A}}$   $\mathcal{A}_{\mathcal{A}}$  Commissioner of Bulldings: (

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.



## Work Permit Department of Buildings

Permit Number: 320148782-01-8W-07

Issued: 11/22/2010

Expires: 09/01/2011

Issued to: ROBERT WOODS

Business: HUNT CONSTRUCTION GROUP

620 ATLANTIC AVENUE

Address: BROOKLYN

Contractor No: GC-604041

Description of Work:

FACILITATE THE INSTALLATION OF THE UTILITIES IN FLATBOSH AVENUE. NO POUNDATION WORK WILL BE DONE ALTERATION TYPE 2 - SHEET/SHOR/BRAC APPLICATION FILED FOR WORK ALONG PLATBUSH AVENUE TO UNDER THIS APPLICATION.

Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2009, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE ; 212 669-7043

Borough Commissioner:

Commissioner of Buildings: (

Tampering with or knowingly making a false entry in or falsely aftering this permit is a crime that is punishable by a fine, imprisonment or both.



## Work Permit Department of Buildings

Permit Number: 320140682-01-BW-01

Issued: 11/22/2010

Expires: 09/01/2011

Address: BROOKLYN

620 ATLANTIC AVENUE

Business: HUNT CONSTRUCTION GROUP

Issued to: MARK GLADDEN

Contractor No: GC-604041

Description of Work:

ALTERATION TYPE 2 - FOUNDATION APPLICATION FILED FOR FOUNDATION WORK ALONG ATLANTIC AVENUE TO PACILITATE THE INSTALLATION OF THE UTILITIES IN ATLANTIC AVENUE.

Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2009, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE: 212 669-7043

Borough Commissioner: M M M Commissioner of Bulldings: M

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.



# Work Permit Department of Buildings

Permit Number: 320140682-02-8W-0T

620 ATLANTIC AVENUE

Address: BROOKLYN

Description of Work;

|ssued: 11/22/2010

Expires: 09/01/2011

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

ALTERATION TYPE 2 - SHEET/SHOR/BRAC APPLICATION FILED FOR SHEETING, SHORING AND BRACING DETAILS IN CONJUNCTION WITH SUPPORT OF EXCAVATION ALONG ATLANTIC AVENUE.

Review is requested under Building Code; 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2009, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:

Commissioner of Buildings:

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.



# Work Permit Department of Buildings

Permit Number: 320140682-01-8W-0T

Issued: 11/22/2010

Issued to: MARK GLADDEN

Expires: 09/01/2011

Businese: HUNT CONSTRUCTION GROUP

620 ATLANTIC AVENUE

Contractor No: GC-604041

Description of Work:

Address: BROOKLYN

ALTERATION TYPE 2 - FOUNDATION APPLICATION FILED FOR FOUNDATION WORK ALONG ATLANTIC AVENUE TO FACILITATE THE INSTALLATION OF THE UTILITIES IN ATLANTIC AVENUE.

Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night 311 SITE SAPETY PHONE: 212 669-7043

Borough Commissioner: (L. L. R. Commissioner of Buildings: (Life )

Tampering with or knowingly making a false entry in or falsely attering this permit is a crime that is punishable by a fine, imprisonment or both.



# Work Permit Department of Buildings

Permit Number: 320100234-01-NB

Issued: 11/22/2010

Expires: 09/01/2011

Issued to: MARK GLADDEN

620 ATLANTIC AVENUE

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

Address: BROOKLYN

NEW BUILDING - REVIEW FOR ZONING, NEW BUILDING CONSTRUCTION.

SITE FILL: ON-SITE

Review is requested under Building Code: 2008

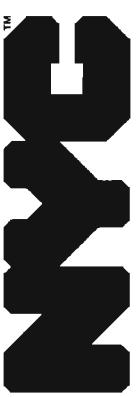
To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2009, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAPETY PHONE: 212 669-7043

Borough Commissioner:

Commissioner of Buildings:

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisoranent or both.



# Work Permit Department of Buildings

Permit Number: 320100234-01-EQ-FN

|ssued: 11/22/2010

Expires: 09/01/2011

620 ATLANTIC AVENUE Address: BROOKLYN

Description of Work:

Business: HUNT CONSTRUCTION GROUP

Issued to: MARK GLADDEN

Contractor No: GC-604041

PENCE REVIEW FOR ZONING, NEW BUILDING CONSTRUCTION. NEW BUILDING - CONSTRUCTION EQUIPMENT

Review is requested under Building Code: 2008

SITE FILL: ON-SITE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE: 212 669-7043

Borough Commissioner:

W. La Commissioner of Buildings: (Literal)

Tampering with or knowingly making a false entry in or falsely attering this permit is a crime that is punishable by a fine, imprisonment or both.



# Work Permit Department of Buildings

Permit Number: 320148782-01-8W-0T

|ssued: 11/22/2010

Expires: 09/01/2011

Issued to: ROBERT WOODS

Business: HUNT CONSTRUCTION GROUP

620 ATLANTIC AVENUE

Address: BROOKLYN

Contractor No: GC-604041

Description of Work:

UNDER THIS APPLICATION.

PACILITATE THE INSTALLATION OF THE UTILITIES IN FLATBUSH AVENUE. NO FOUNDATION WORK WILL BE DONE ALTERATION TYPE 2 - SHEET/SHOR/BRAC, APPLICATION FILED FOR WORK ALONG FLATBUSH AVENUE TO

Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "Ny Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night 311 SITE SAFETY PHONE: 212 669-7043

Borough Commissioner:  $\mathcal{A}_{\mathcal{A}}$  Commissioner of Buildings:  $\mathcal{A}_{\mathcal{A}}$ 

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is purishable by a fine, imprisonment or both.

## **HELLER AND JOHNSEN**

Geotechnical Engineering Consultants

November 17, 2010 File No. 19295

Hayward Baker, Inc. 260 Green Street South Hackensack, New Jersey 07606

Attn.: Mr. Todd Culp

Re.: Brooklyn Arena Mass Transit

New York, New York

SUBMITT ENGINEERS LANDSCAPE ARCHITECTS PLANNERS SO WEST 23RD STREET, NEW YORK, NY 10010-5205 EC o 1 2010 REVIEWING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND THE GENERAL COMPLIANCE WITH THE MEDINIVETY & SONS, INC. GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION AND FOR COORDINATION OF HIS/HER WORK WITH THAT OF ALL OTHER TRADES. **EXAPPROVED** APPROVED AS NOTED REVISE AND RESUBMIT DISAPPROVED REVIEWED BY\_

Dear Mr. Culp:

The second test pile was installed on October 22, 2010 and its load test started on October 27, 2010. The design load is 250 tons and its test load is 500 tons.

DATE

Between the 99th hour and the 147th hour, the pile top deflection based on the average dial gauge reading changed from 1.274 inches to 1.286 inches. This change meets the project's specifications for the test load's creep criteria of 0.012 inches in a 48 hour period.

The load test also meets the two test acceptance criteria in the project's specification. The load test meets the first criteria because its gross settlement is less than 5 inches. The load test also meets the second criteria because the gross settlement as of test hold hour 147 minus the pile's theoretical elastic shortening of 1,005 inches is 0.281 inches, which is less than 0.75 inches. The calculations for the theoretical elastic shortening of the pile are attached.

On November 8, 2010, the pile was reloaded to 150% of the design load and failure did not occur. The pile is therefore acceptable for a design load of 250 tons.

Very truly yours,

Michal D. Thomas, P.E.

DEC 032010

Stantec Consulting

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FILE NO. 19295 DATE: 1022/2010 to 1192/010		NOTES																																											٥					DEC 8 1 Say.	1007 1 Ann		OUN On the	WELTA & SOME			
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PROJECT: Broaklys Arana Mass Transa PILE NO.: Test Pile 2, Design Load 250 Tons	9						_					-																		1							1						¥095														175%			1									+	+	100	187,5%

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FILE NO.: 19293 DATE: 1927-2010 to 11/6/2010		NOTES		1111000			「こうり」	)	•	- 050 p 1 2010	1 A A A A		SINCY -	DATE OF A ATTACAMENT OF A STATE O								17:28 Burnp in pressure to 5800 psi															OB: 07 Bump in pressure to 5675 per		10:38 Sumo (a oressura to 5650ps)	11:35 Burno In pressure to 5800 from 5810				Sun htting beam	Sun hitting beam						Bump in pressure		Bump in preseure		emessard ui deling			0835 Bump in pressure from 5910 to 5650
	WIRE	NSP.	1 7/64	3	. B.654	1 8/64	8/24	1 8/64	<b>8</b>	3	Ž	¥ 3		200	2   5/64	1 6/64	7 16/64	1 6/64	1 16/64	1 16/64	16/04	18/64	1 18/64	18/84	18/8	25	186	3 3	300	1964	10VG	19464	1 19/64	1 19/64	1 19764	1 29/64	19/61	2000	30/84	13/67	22/54	122/64	1 22:64	1 22/64	22/64	72/64	8	2007	2776	1 21/04	1 22/54	1 22/64	120/64	122/61	3000	13/61	1 23/64	123/64
	WIRE	READING (PV)	1 10/K4	3865	3 20/64	3 20/64	3206	3 20,51	3 20/64	3 20054	3 7 1/00	27.70	3 71/00	36/10	3 27/64	3.28/64	3 28/64	328/64	3 28/64	3 28/64	3 28/64	3	30064	3,0054	388	38	3008	200	200	3 11/64	331/64	3 3 1/64	331/84	331/64	331/64	33/864	37.6	23,400	332/64	334/64	334/64	3 74/64	3 34/64	3.34/64	3.74/64	336/64	334/04	80/8	3 3366	177/64	3,3464	3.34/64	3.14/64	334/64	3,4/154	3,7(6	3 15 64	3 35/64
		1 (S)	8600	0.00	1.090	1.034	1.035	0,00	1.040	20.5	+	Ť	┿	┿	1,330	1.34	1.136	1.137	141	7	1 46	1,167	┪	7	1	7	†	†	101			188	1.181	1.181	1.180	<u>2</u>	08	X 6	261	123	ă	Н	Н	H	┪	+	1.222	+	+	+	1236	H	H	200	+	233	Н	750
		CAUCE 3	800	166.0	866'0	7003	8	80.	1.000\$	000	7101	000	2013	3	886	28	<u>8</u>	F. 106	601.1	1112	21.15	1.133	-	2	1.163	1.146		***			5	1 32	133	1.151	22.	8	82	8 2	38	261.	8	86.	002	7005	64 44	10.7	S S	ány.	888	200	1210	1,210	1.210	17	1211	1212	1.212	1.213
	_	OAUGE 3	8	1,003	1.002	0.998	8	0,992	6,92	2000	0.786	V.7	1000		206.0	869'0	96870	0,894	1680	3	0.885	200	6530	82	0.855	3	70.00	9740	0 840	980	0,849	0849	0.849	0.849	23	0.850	0.150	200	¥ 10	2080	0 88 88	0,802	0.800	0.78	0.33	× 2	6,3	26,74	200	P	0 <u>5</u>	0,790	<del>0</del>	0.78	7 78g	0.789	0.788	0.787
	S (INCHES	DAUGE 2	8	101	1,101	1.105	28	1,112	1,112		2 2	171	-	-	88	1213	1.215	1.216	230	123	S S	247	ž	223	256	\$7.		3,50	130	1361	1 260	1.260	1.260	1.260	1260	1.260	57	273	1274	3,302	30	 202.	1.306	1310	1,309		1312	1.312	215	1315	1,316	1.317	1317	13.18	218	1.319	1319	220
,	DIAL READINGS (INCHES)	OAUGE 2 (	960	0.899	0,899	0.835	X	0.800	288	20.0	1000	26.0	1000	800	167.0	0,787	0.785	0.784	0.780	0.777	0.73	0.733	0.749	0.747	747	Q.74	0,741	100	0 720	020	0.740	0.740	0.740	0.740	0.740	0.740	0.741	0,470	0.726	0.691	0,696	0,695	0.694	0.690	1690	0000	280.0	0.000	0.000	0.083	0.684	0,683	0.683	0.087	7807	0.681	0.681	0.000
	Δi	OALIGE ! !	0360	0.591	18810	585	86.0	8	60	200	100	3 6	3 8	ANT	1.083	2007	1,048	060?	1.093	386	86.	2112	22.	23	1,10	971	8 1	100		132	2	214	L)31	1.131	1,131		23	\$ 5	3	2	1.17	1212	1.174	1.173	1,176	2	6	300	187	1	1,183	2	20.1	22	2 2	88	1,187	1,187
		GAUGE I	707	1,009	608.	8	100	6660	0.999	2000	2000	1000	260		0.917	0.914	0,912	0.910	0.907	0.304	8:3	0.882	10.878	0.679	0.873	278.0	0.870	8 69	878	9980	0.868	0.868	698.0	6.869	0,869	\$ 1	0.869	0.837	0.835	0.829	0.R28	0.827	9280	0.827	0.824	28.0	0.820	V.000	0.010	0.818	0,817	0.816	9116	200	0.013	0.814	0.813	0.813
	ACTUAL	CAGE PRESS (PSI)	24.10	2400	8	9	8	222	S S	2000	200	\$655	†	•	908	5775	5775	5750	2725	3,100	202	200	£	200	5710	20170	200	2003	4,540	222	2500	5500	5500	2500	880	55	2625	3 8	5575	200	2800	5775	<i>\$1</i> .8	22.52	5765	3730	253	R S	3	\$23	9890	5625	<u> </u>	Ž	366	0595	3	2 33 3 33 3 33 3 33 3 33 3 33 3 33 3 33
	GADE	PRESS. FOR LOAD (PSI) P			ĺ	1	t	†	1		†	t	t	$\dagger$	57.25	-			1	1	+	†	†	†	†	†	$\dagger$		İ	l				-				$\dagger$	<u> </u>	-				1	1	+	†	t	t	t			1	1	t			
sit Q Toes	$\overline{}$	(SNOT)			1										8					1			†		1	1			T							1	1		1					1	1		T			†		1	1		T		1	T
a Mest Trun	TIME	(HRS)	330	13:31	13:33	200	1 3	22.5	24:14	14.50	\$ 2	55.55	253		16:33	1636	16:39	16:43	959	822	2.5	17:32	(18:02	662		200		22.22	23.15	0:35	1:35	2:35	335	4,35	5:35	\$	55.0	\$1.0	10.35	1105	(2,35	13:35	14:35	<u> </u>	16:33	17:35	10.35	20.34	21.35	22.35	23:35	0.35	25.5	a s	133	535	633	303
rookbyn Area sa Pile 2, De	TIME		-	7	4	-	2 \$	2 3	) 3	3 8	120	150	038		0.5	1	4	<b>1</b> 00	2	3	2 5	8 8	† •	, ,	3,	1		E S	7hrs	Phrs	Shas	10hrs	Libra	12brs	Sec.	5	Signal Control	17bra	18	Plans	20fms .	51판	Sales Sales	£ .	Septe S		21/12	7871870	Shring.	5	3.) hrs	32has	Salent		X603	37/03	New York	40br
PROJECT: Brookbyn Areas Mess Transk PUE NO.: Test Pile 2, Design Loed 250, Toes	_	INCREM.													200%								1																		-								-								_	

			T	T	Τ	Τ	Γ	Γ					]	7	Ţ		T	T	Τ	Τ	Γ		Į.			T	Γ							Ţ	Ţ	Ţ		T	T						Ţ	Ţ	T	T		Eleen Co	П	Ţ	T	Ţ					7	٦	≘
FILE NU. 19295 DATE: 1027/2010 to 11/8/2010		NOTES						Sun hitting been.	Sun hitting been.								Comment of the second	phospad to dising					Angre in presents from 5810 to 5650 os	The second secon							Sun hitting beam	Sum hitting beam					Bump to prosento	Rivers to Personne												tumo in pressure from 6600 to 5650, sun o	Sun Millin beam	Sun hitting beam								10 F V 7 111	DEC 1 1 ZUID
		EN.		73/64	1 23/64	1 23/64	1 23/64	1 23/64	23/64	1 23/64	23/64	73/64	23/64	73/64	73,004	7770	1 6300	27/27	2365	27,654	1 23/654	1 2364	23/64	27/16	23/64	123/64	23/64	13/64	1 23/64	1 24/64	1 24/64	1 24/64	134/64	124/64	1 24/64	24464	74764	24664	1 24/64	24/64	12464	1 24/64	1 24/64	1 24/64	24/64	24/64	1 24/K4	1 24/64	Т		П	т	24/64	7387	125/64	1 25/64	125/64	12564	23,64	5000	
	WIRE	READING (PV)		3.35/64	1 15.K4	3 35/64	335/64	3 35/64	3 35/64	3 35/64	3 35/64	3 35/64	3 35/64	3 35/64	2000	2 22.00	2 35/64	2356	135/64	4 15K4	1 14/64	3.35/64	3 35/664	1 14 W.	3 35/64	3.35/64	3.35/64	3 35,664	3 35/64	3 36/64	3 36/64	3 36/64	3 36/64	3 36.464	3 36/64	7,000	3000	2 76.M.A	136.64	3,36/64	33684	3 36,64	3 36/64	3 36/64	336/64	3000	36,664	336/64	336.64	336/64	3 36/64	3000	7000	1376	337/64	3 37:64	3 37/64	3 37/64	337/64	2 3 8 04	
	AVG	전 전 전	920	230	1.240	124	242	1.243	1.245	1,242	266	1.245	1.247	<b>1</b>	8	246	1,755	1 750	5	1 3/4	1 25	122	454	125	(57	1,253	33	1.253	1.253	1.252	1,259	263	1,255	256	1.259	35.	270	352	760	756	094.	1,260	1.260	360	36	25.	136	197	2962	792	735	1/2/1	277	1760	1222	1273	1221	22	1.275	413	
		OAUGE 3	7101	515	216	1,216	1,218	1.219	1,22,1	1.217	1.219	R.	1221	722	120	1	1,324	1 2	1 274	XX.	1 225	1225	12%	1,726	722	722	1.227	1,227	1.229	1.227	1.236	1241	[23]	23	235	1.235.	557	35	738	22	1,235	1.235	1.235	1.235	523	24,1	3 2	1,237	722.	1,238	240	827	707	1266	1,249	1,230	1231	25	22 5	454	
	   	AUGB S		C 787	0.786	2,784	0.782	187.0	0.779	0.783	0.781	0.780	0.779	0.77	27.77	1	¥4.0	0 777	0 776	24.4	073	0.773	0.774	0.774	0.773	0.773	6.773	0.773	0.771	0.773	0.764	0,739	0.769	0.767	592.0	20.00	0.760	236	292	537.0	U.765	0.763	0.765	0,765	0 765	32,0	0 764	0.763	0:763	0.762	0.760	02750	74.0	27.0	0.751	0.750	0,749	0.749	3,748	0,100	
	GS (INCHE	OAUGE 2	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200		1320	1.320	1322	1323	1,32	1.323	27	975	122/	136/	3,55	170	1330	130	1130	1330	1331	332	1332	1331	1.332	1332	332	1,332	1.332	1.337	1.341	Ž,	1333	1338	23.5	1.23	330	1339	139	1339	1.339	1.339	339	2012	6 5	3	3	1.341	1.340	1,340	200	155	1347	3.50	1.352	1352	1333	X	200	
	DIAL, READINGS (INCHES)	OAUGE 2		180	1890	0,680	0890	0.678	1250	0.679	2290	0.676	0.074	5	0.0/3	0 273	7/2/2	1/90	0,00	0.90	0.670	6990	0.663	0.668	0,667	0,668	0,668	0.668	0,658	0.668	0,663	659'0	999.0	0.667	0.082	900		1990	1990	0,661	1990	0.661	0.061	1997	0.661	87.5	199	0.660	6390	0.660	0900	7000	0.049	6890	0,650	0.648	8490	0.647	2000	200	
	2	GAUGE	3 20		283	1.187	1.187	1.688	7.130	25	8	2 2			K 3	100	8	<u>×</u>	161	67	1.197	1.193	8	661	661-1	- 159	6613	661	1 199	1.198	1.204	1,207	82	1,202	Ž,	á ž	2 22.	707	200	387	1,206	1,206	1206	1.20	88	202	102	1.207	1.307	707	12	<b>*</b>	3 6	1213	1216	4.218.	4.219	1.220	27.5	200	
		GAUDE I.		110	0.814	0,813	0.813	0.812	0.810	0.812	0.810	9780	1000	0.000	200.0	Supply of the su	0 804	8	0.803	0.803	0,803	0.802	0.801	0,80	0,80	0.80	108.0	1080	10870	0,802	0,736	0.793	8	0.78	8	200	200	0 74 C	\$	20.0	3.75	0,794	2734	6.73 1.73	2 2	¥ 5	0,793	0 783	0.793	0.793	0.793	0.760	\$ 12	0.787	0.784	0,782	182.0	05/50	0.780	21.00	
	ACTUAL	CAGE RESS. (PSI)	5	2650	26.50	9650	2650	\$650	\$650	<b>3</b>	2	200	200	200	250	3	Š	3650	5625	3650	5795	9650	8%	988	5650	82	\$625	\$258	3625	5625	5625	5625	262	282	2 2	200	2000	95	88	99	2600	9095	2600	98 S	2 2	3 5	8	\$ <del>\$</del>	2610	98	0095	200	995	88	9898	3650	355	Z 2	3 8	2	
	GACE	PRESS. FOR LOAD (PSJ) PR									+	+	†	+				-													1		1		+	†		<del> </del>						†	†		-	-				+					†	+	+		
ssit 10 Tones	٥	(SAO)							7		1			ľ			Ī													1			1	Ī											Ţ	T					1	1	1	ſ			7	T			
a Mass Trausis 25 back 25	HAE.	(HRS)	28.0	10.35	11:35	12:3\$	13:33	14:35	1503	16:35	16.35	10:35	2.5	21.16	22.35	23:35	0-35	135	2:35	3.33	4:35	5:35	6:35	7:35	8:35	\$135	10-35	11:35	12:35	13:35	14:35	1535	16.35	200	18,33	7075	21.35	22:22	25,25	0,35	1:35	2:35	3:35	4:35	25.5	7.35	8.35	\$13	10:35	<u> </u>	22.32	14.75	15-95	16:33	17:35	18:35	19:35	31.16	22.35		
Pooklyni Arei 33 PRe 2, De	TIME	NG CE	1	42hrs	43thrs	44hrs	Ser.	Sign	471es	200	S N	3 3			3	SShri	Sohra	57hrs	Sahra	39Avs	60hrs	615003	62turs	63)ara	CAMP.	65bers	66bms	67403	68 hrs	5069	70gra	7 lbr3	7.2 bas	100	7000	Zéhre	276	78 Pas	۶	98	19	125	2	Z 2	3	\$ \$	2	SE	8	-   E	g s	3	* *	æ	16	<b>S</b>	8 5	3 4	ğ	1	
PROJECT: Broatlyn Arens Mass Transii PILE NO.: Test PRe 2, Design Load 250 Tons	TOAD	DNCREFA																			<u> </u>			<u> </u>								1	1	<u> </u>				<u></u>																	-			İ			

FROJECT: PILENO.: T	Brodklyn Ar Ter Pile 2, D	PROJECT; Brooklyn Azera Mass Transh PILE NO.: Tear Pile 2, Design Load 250 Tons	sit 10 Tons												FILE NO.: 19295 DATE: 16/27/2010 to 11/8/2010
LOAD	TIME	TIME	2007	GAGE	ACTUAL S		À	IL READBH	DIAL READINGS (INCHES)			AVG.	WIRE		
NCREM.	(Min)	(HRS)	(70/5)	LOAD (PSI)	PRESS. (PSJ)	CAUGE 1	DAUGE 1	7	GAUGE 2	GAUGE 3	DAUDE 3		READING (AR)	돌 종	NOTES
	los	23:35	_		3690	0.780		983	1357	0.748	1753	2,2	137764	24/64	
	2	0:35			\$605	0.779	123	0.646	354	0.748	1252	1276	337/64	123/64	
	3	\$2			\$600	0.779	(Z)	9,00	3	0.748	1.252	1.276	137,64	1 25/64	
T	8 5	533			.00	0.73	ā	56.	1355	0,748	1252	1376	337/64	125/64	
		38:7			2000	10.70		3	2	2 4	7222	1,276	3,776	25/64	
	8	\$35	ľ		3	0 778	3 6	0,000	2 2	47/a/	3	1277	3 35.64	26/64	
	2	203	T		98	0.778	315	0 644	2 7	0.743	315	†	3 3 7 7 6 5	136/61	
	117	7.35			33.33	0,776	ñ	1990	1,359	0.744	325	╈	3,17/6	X	Furm in cersus to 5650 out
	112	8.35			\$650	0,777	(22)	0.642	338	0.744	1.28	64F	3 37/64	73/64	The state of the s
	=	9:35			5625	0.777	1,23	0.643	1.357	0.745	1.255	1.278	337/64	1.25/64	
	14	(0:35			5625	0.777	123	0,643	1.357	0,745	1.255	1278	3 37/64	125/64	
	<b>≅</b>	กห			\$625	1.77.0	123	0.1643	1357	0.745	1.255	1.278	3 37/64	1 25/64	Sun nitting beam
Ī	91	123			\$625	0.777	123	0.643	1.357	D.742	1,258	1.279	337/64	125/64	Sun ldting beens.
	2	(3:35	1		\$625	E-12	žį.	8590	1 362	0.743	1.257	1382	337/64	1 25/64	
		M35			\$625	0.7%	ž	0.642	133	0.742	22	ϥ	337/64	133/64	
	2	55.5	1		2625	0.78	ZZ.	0.641	2	0.741	1.29	┪	33764	125/64	
	3 2	10,35	7		CZ SZ	2,78	¥215	0,042	1,738	0.742	25.7	╅	337/64	125/64	
Ī	3 2	36.90			7,35	e ;	3 2	787	1.358	0.743	1.257	1280	337.66	75/64	
	15	35.01			253	27.70	3 2	1800	656	\$ 1.75 0.74	27.0	+	33//04	200	
	72	20:35			25/38	0.774	×	0.0	1760	0.742	8 5	+	3 36/04	1 36/44	
	\$21	23:35			\$625	675	1,000	0.00	192	0 762	361	+	3 30/K4	2886	
	92	72.33			5625	0.773	1.227	0,639	1361	0.742	(258	۰	3	1 26/64	
	127	23:35			5625	0,773	1227	0.639	1.361	Q.742	1.258	╈	3 3 8 4 6 4	1 26/64	
	128	0:35			\$625	0.772	1.228	0.638	1362	0.742	1.258	Н	3 38-54	1 26/64	
	62	5:35			2523	0.77	ŽĮ.	0,637	1363	0.742	\$2   	Ч	3 38/64	1 26/64	
T	051	2035		†	¥ 5	0.77	\$ 1.50 E	0.637	200	187	ន្ទីរ	7,584	3 38/64	38/64	
	[32	4:35	T		¥623	0,770	1,25	9830	3 5	0.741	1 360	+	3 38/04	2000	
	133	5335			\$535	0.77.0	200	0637	35	0.761	1.259	+	138/64	76/04	
	961	6.35.			\$610	0,770	1,230	0.636	1.364	0.74	1.259	1,284	3 38664	1 26.64	
-	33	7:35			3610	0.770	1.230	0.635	1.363	0.741	1,259	Н	338/64	1 36/64	
1	<u>x</u>	8:35	1		2610	0.770	1,230	9090	<u>\$</u>	0.741	1.259	H	3 38/64	1 26/64	
1	16	5:35	1		2610	2,7	1730	0.636	, X	0.741	1.259	7	3.38/64	1 26/64	
T	361	1033	1			6.7.0	OST C	9	3 3	0.741	652.1	+	3.38/64	50,00	
T	160	12:35	T		\$625	2,72	25.0	2 2	8 3	0.741	à X	╅	3 38/04 2 78/64	2007	
	=	13:35			3625	0,766	1,234	0.00	388	240	282	۲	7 % W.	76/64	Suo himm beam
	142	1433			5625	0,770	1.230	9790	78.7	0.741	\$27.1	1.284	3 38/64	5664	
	143	15:35			5625	0,776	1,230	0.635	1365	0.737	1.263	Н	3 34/64	1 26/164	Sun histing beam
1	144	1635	1		5625	692'0	1,231	0.635	1365	0,740	1.260	H	3 38/64	1 26/64	
T	3	17.35	Ī		X2 3	0.769	127	0634	386	0,740	977	+	338/64	126/64	
	167	10.25	T	†	200	0.769	3	0.634	8 5	67.75	<b>E</b> 5	+	3 38/64	1990	
Γ	30	20:35			2638	997.0	1202	7090	3	0.730	2,40	+	1 18.66	1 26/64	
	346	21:35			\$233	294.0	123	0.634	385	0 739	Įą	٠	138/64	1 26/64	
	<u>\$</u>	22:35			5625	0.767	1.233	0.633	1.367	0,739	1.361	⊢	3 38/64	1 26/64	
	151	23:35			5295	0,767	1.233	0.633	1,367	D.738	1262	Н	3 38/64	> 26/64	
T	22 93	0.33	1		2825	0.767	i i	1983	1.367	97.0	7962	$\forall$	3 38/64	126/64	3.7.
ľ	2	222	†		888	20,0	1236	839	132		75.	200	7 28 66.4	1.76.66	
												┢	20000		
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1 EVR	*	30.4	7,7	4300	200	. 0500	9	556	500	1		┰	3	77.77	
	3 3	2.6	2/5	355	2002	0.84	251	0.715	/38/	1787	3 2	200 X	13764	1 21/64	
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FILE NO. 19295 DATE: (077/12010 to 118/12010		STON																																			UPC 0-1 2010	
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		READING (PV)	3 29/64	3.29	╈	3 22/64	3 140	3 14/64	3 6/64		2 56/64	2 56/64	2 45/64	2 65/64	237/64	43/	23664	╋	237/64	+	2 56/64	-	3 2/64	311/64	3 1/04	3 18/64	327	32764	3 25/64	+	3 20/64	3 1/6	1	3 1/64	2 55/	2 55/64	237/64	
	AVG.	12 SE	1.139	1.132	900	1.032	0.014	0911	877	0.768	0.641	0.638	0.453	0.451	0.365	X N	0.342	0.354	0.354	9080	0.607	0.716	0.716	0.877	8/8	0.998	1,107	=	1.083	900,1	666.0	0.885	0.71	0.736	0.583	0.582	0.361	
		OAUGE 3 DISPL	1,108	8	1.003	1.00	0.633	880	0.742	0.738	0,678	929'0	0,420	0.419	0.33	0.327	1050	0.1/8	6,317	0.562	0,563	0.20	0,795	0.0	0.834	0.948	1.065	990.6	1.009	0,955	956	0.844	9890	0.645	0.540	0.540	0.312	
	3	GAUGE 3 READ	0.892	906	0.995	0.999	1117	1.119	1.258	1362	1.32	1324	1580	1,381	1,667	1.673	1.699	1 682	5.683	418	1,537	×	1.295	1,166	8	1,062 1,045	9000	226.0	0.961	1.06.	9401	1.156	1384	1,315	1.460	1.460	1.690	
	G\$ (INCHE		1,215	1,21	1.107	1.103	0.960	0.977	0.829	0.625	0,686	0.653	0.496	0.493	0.397	0.382	0.375	0.391	1950	9990	0.666	0.715	0.716	0.948	0.950	1.073	2	1.193	22	1.076	9,07	0.962	0.796	0.793	0.637	0,636	0,399	
	DIAL READINGS (INCHES)	DAUGE 2	0.785	0.789	0.893	0.897	8	182	1,171	1173	134	1347	78.	1.507	1.603	Lote	1.625	1,609	1.609	75	1334	1.285	1.284	1.057	- KO-	0.927	0,812	0,907	0.836	9750	0.924	1:03	1 204	1,205	1.363	35.	1.604	
	DIV	GAUGE I GAUGE 2 GAUGE 2 DISPL. READ DISPL	1.09.5	86	0.987	0.992	0.680	0.873	0.745	0.740	0.550	0,585	0.443	0.440	0.364	8	0.349	0.354	0.333	\$	1850	5777	97.0	0.849	0.851	0.961	1.068	1.073	20.7	0.96	0.966	0.862	0.712	0,711	1720	0,570	0.370	
		GAUGE 1	0,905	0160	98.	1.00t	1.120	1.125	1285	1260	1,410	1415	1.557	88	1,636	98	1.65)	186	1.647	1,400	††	1273	1272	1.151	65.	1.039	0.932	0.927	956.0	1.002	700.	1.838	1,788	1.289	1,429	1.430	1.627	
	ACTUAL	UNOE RESS. (PSI)	3600	1	2875		2175		1450		750		187.5	1	ó	1	0	187.5	187.5	24.50	1450	2175	2175	2875	2875	3600	4300	800	3600	2782	2875	2175	1450	1450	750	82	٥٥	
	OAGE	LOAD (PSD	3600		27,822		2175		1450		05/		187.5		٥		٥	250		1450		2175		3675	<b>T</b>	0090	6300		3600	2875		2117	1450		250		0	
Light Trans	_	(TONS)	312.5	T	250		187.5		125		62.5	1	ß	1	0	1	٥	2		125		187.5		250	†	312.5	378		312.5	250		187.5	22		62.5		00	
PROJECT: Brooklyn Atena Mass Transis PLLE NO.: Test Pile, 2, Design Load 230 Toas	TIMB	(HRS)	ध्य	10:25	10:25	1133	27	द्रय	12.23	13.25	13:25	14:25	14:25	15.25	15.25	ggg	98.4	8:20	<b>3</b>	05:8	9.0	\$ 52	9:32	9:33	ES.	10:14	10:15	12:13	12:18	12:40	8	13,02	13:23	D.C.	13:45	4:05	14:27	
rooklyn Are	TIME	(MIN)	0.5	3	23	8	2	3	0.5	. 98	6.5	8	6.0	ક	53		\$0	20	8	0.5	8	2	20	20	R	20	0.5	021	8 63	0.5	R	28	0.5	8	0.5	2	\$ 8	
PROJECT:	LOAD	INCREM.	%SZ1		76001		75%		868		25%		960		É		*	86		80%		766		1,00%		125%	150%		135%	1,00%		75%	80%		25%		%	

## THEORETICAL SHORTENING OF PILE DUE TO 500 TON TEST LOAD

tons 
$$= 2000lbf$$

ksi := 1000psi

## Cased Portion:

RECEIVED

$$P_1 := 500 tons$$
  $L_1 := 49 ft$ 

$$L_1 := 49ft$$

DEC 0 1 2010

$$OD_c := 10.75$$
in  $tw_c := 0.5$ in  $ID_c := OD_c - 2tw_c$ 

JOHN CIVETTA & SONS, INC.

$$A_c := \frac{\pi}{4} \left( OD_c^2 - ID_c^2 \right)$$
  $A_{bar} := 9.61 in^2$   $A_g := \frac{\pi}{4} ID_c^2 - A_{bar}$ 

$$A_g := \frac{\pi}{4} ID_c^2 - A_{bar}$$

E. := 29000000psi

$$E_{a1} := 45.00 \text{ksi}$$

E<sub>q1</sub> := 4500ksi confined - as per FHWA

$$AE_1 := (A_c + A_{bar})E_s + A_g \cdot E_{g1}$$
  $AE_1 = 1038342816 \text{ lbf}$   $\frac{L_1}{AE_1} = 0.001133 \frac{\text{in}}{\text{tons}}$ 

$$\frac{L_1}{AE_1} = 0.001133 \frac{in}{tons}$$

$$d_1 := \frac{P_1 \cdot L_1}{AE_1}$$
  $d_1 \approx 0.566 in$ 

$$d_1 \approx 0.566 \, \text{in}$$

## Uncased Portion:

P<sub>2</sub> = 250tons Average load across length of bond zone.

$$A_{g2} := \frac{\pi}{4} \cdot OD_c^2 - A_{bar}$$

E<sub>g2</sub> := 3300ksi unconfined - as per FHWA

$$\mathsf{AE}_2 \coloneqq \mathsf{A}_{\mathsf{bar}} \cdot \mathsf{E}_{\mathsf{s}} + \mathsf{A}_{\mathsf{g2}} \cdot \mathsf{E}_{\mathsf{g2}}$$

 $d_2 := \frac{P_2 \cdot L_2}{AE_2}$   $d_2 = 0.439 \text{ in}$ 

$$AE_2 = 546493498 \, lbf$$

$$\frac{L_2}{AE_2} = 0.001757 \frac{in}{tons}$$

Total Theoretical Shortening of Pile:

$$D := d_1 + d_2$$
  $D = 1.005 in$ 

$$D = 1.005 in$$

## W. B. EQUIPMENT SERVICE CO. INC 127 OAK STREET WOOD RIDGE, NJ 07075 TEL: 201-438-7800 FAX: 201-438-7830

RECEIVED

DEC 0 1 2010

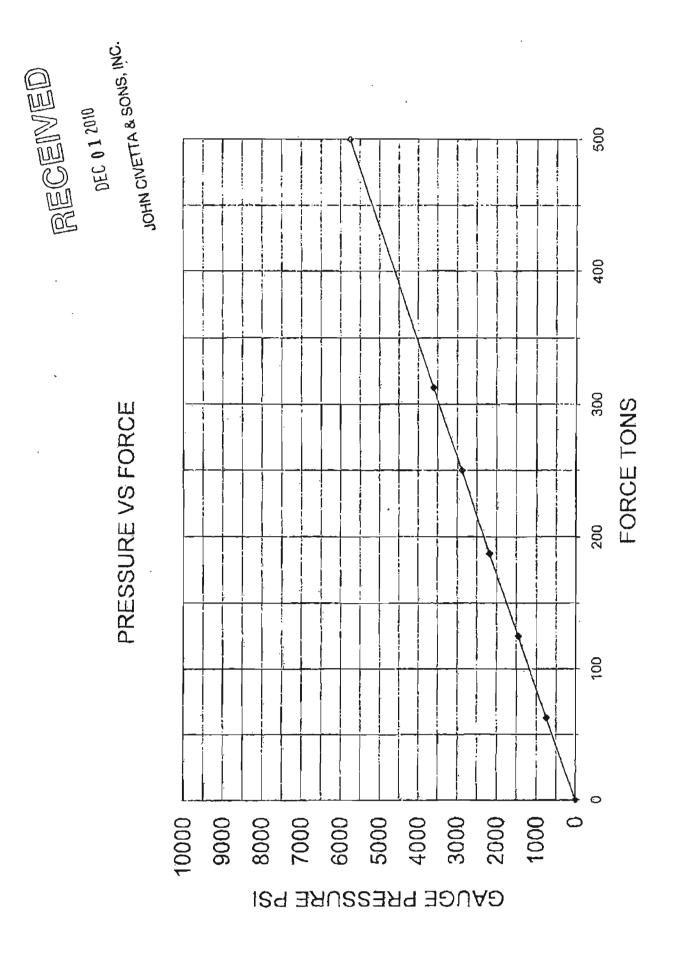
JOHN CIVETTA & SONS, INC.

Date:	09/29	/10				-	
W.B. EQUIPM	ENT SER	VICE CO	, INC NO:				
CUSTOMER:	<u>HAYW</u> AF	RD BAKE	R			ORDER NO:	
CYLINDER:	900	TONS	STROKE:	12"	_	SERIAL NO: _	WB933
GAUGE:	6_	INCH D	IAMETER:	10000	_PSI	SERIAL NO:	WB649

CYLINDER FORCE	GAUGE READI	NGS-PSI	AVERAGE PRESSURE
TONS.	AT RAM EXTE	NSIONS	PSI
	1 INCH	2 INCH	
0	0	Û	0
62.5	750	750	750
125	1425	1450	1450
187.5	2176	2175	2175
250	2875	2875	2875
312.5	3600	3600	3600
3.75	4275	4300	4300
437,5	5025	5025	5025
500	5700	5725	5725

## TEST PERFORMED BY:DARREN CIRECO

OUTPUT MEASURED BY LOADCELLSERIAL NUMBER D WITH STRAIN INDICATOR P3 SERIAL NUMBER 015889



## W. B. EQUIPMENT SERVICE CO. INC. 127 OAK STREET WOOD-RIDGE, NJ 07075 TEL: 201-438-7800 FAX: 201-438-7830

## GAUGE CERTIFICATION

W. B. EQUIPMENT SERVICE CO NO:

DATE: 9/29/10

CUSTOMER: HAYWARD BAKER

ORDER NO:

GAUGE SERIAL NO:

CAPACITY

10000 PSI

**WB649** 

6 INCH DIAL

WE CERTIFY THAT THE HYDRAULIC GAUGES LISTED ABOVE HAVE BEEN TESTED PRIOR TO SHIPMENT AND FOUND TO BE WITHIN STANDARD COMMERCIAL ACCURACY OF 2% PLUS-OR-MINUS OF FULL SCALE.

VERY TRULY YOURS, W. B. EQUIPMENT SERVICE CO. INC.

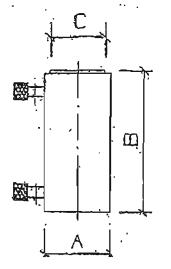
DARREN CIRECO

RECEIVED

DEC 0 1 2010

JOHN CIVETTA & SONS, INC.

## DOUBLE ACTING JACK



DEC 0 1 2010

JOHN CIVETTA & SONS, INC.

MODEL	CAPACITY TONS	STROKE	AREA SQ. IN	WI	A DIA	В	C DIA
WBLN4002	-400	2	86.79	695	13	17.25	10.50
WBLN 2802	280	2	56.79	280	10.8	10	8.10
WB5024	55 .	24	11.05	200	-5	31.63	3.125
WB1001BDR	100	18	19.63	195	6.25	31.25	4.00
WB1506DD	150	. 6	38.48	250	8.88	15.88	4.50
WB1506DT	150	6	33.19	-218	8.5	15.50	5
WB15012DD	150	12	38.48	310	8.8\$	21.88	4.5
WB15012DT	1.50	12	33.19	2.95	8.50	21.50	5.00
WB2006DR	200	6.00	50.27	325	10.06	17.25	7.00
WB2006DE	200	6.00	44.2	325	9.75	16,94	\$25
WB20012DR	200	12.00	50.27	450	10.75	23.25	7.00
W820010BDR	200	108	50.27	2400	11.00	128.8	12.00
WB2506DT	250	6.00	50.27	320	10.06	17.25	7.00
WB2606DE	250	6	56.79	350	10.75	13,13	6.38
WB5004DE	500	4.00	113,25	1000	15.76	19.00	8.5
*W83004DE	300	4.00	113.25	107.6	15.75	23.38	8.98
WB50013PT	500	1,3	99,4	1092	14.75	27.57	.8
WB90012	863	12	175.77	1800	20.5	32,25	10

## \*WITH TILT SADDLE

CUSTOMER:

DATE		REFERENÇE
	WB EQUIPMENT SERVICE CORPORATION	
ĐΫ	127 OAK STREET, WOOD RIDGE, NJ 07075	REVISION
DHG	Phone (201) 438-7800 Fax (201)438-7830	46 A1210M
	website: www.wbequipment.com	

MUESER RUTLEDGE
CONSULTING ENGINEERS

A APPROVED

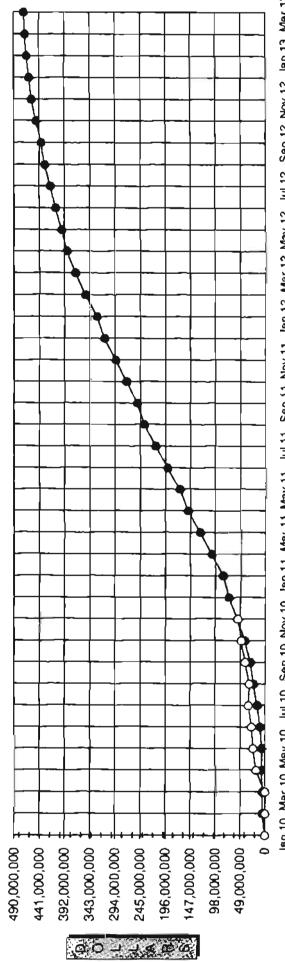
REVISE AND RESUBMIT

REJECTED

BY: SP.L

DATE: 12-8-10

## PROGRESS: PROJECTED VS. ACTUAL BROOKLYN, NEW YORK **BARCLAYS CENTER** · NETS ARENA \*



Jan 10 Mar 10 May 10 Jul 10 Sep 10 Nov 10 Jan 11 Mar 11 May 11 Jul 11 Sep 11 Nov 11 Jan 12 Mar 12 May 12 Jul 12 Sep 12 Nov 12 Jan 13 Mar 13

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1. Formwork for interior footing at Line 1



2. Formwork for foundation wall along Flatbush Avenue



3. Underpinning at existing wall abutting MTA structure



4. Interior footing at Line 43



5. West retention tank concrete



6. Steel columns erected at Lines 5 - 7



7. Transit connection site



8. Piles driven along Atlantic Avenue at transit connection site