Sponsored by: _____
Seconded by: _____

City of Hoboken

Resolution No. _____

RESOLUTION AUTHORIZING EMERGENCY TEMPORARY APPROPRIATIONS FOR THE CALENDAR YEAR 2014 BUDGET

WHEREAS, an emergent condition has arisen in that the City of Hoboken is expected to enter into contracts, commitments or payments prior to the adoption of the 2014 budget and no adequate provision has been made in the 2014 temporary budget for the aforesaid purposes, and

WHEREAS, N.J.S.A. 40A:4-20 provides for the creation of an emergency temporary appropriation for said purpose, and

WHEREAS, the total emergency temporary appropriation authorized by resolutions in 2014, pursuant to the provisions of N.J.S.A. 40A:4-20, including this resolution, total $805,000.00 (Eight Hundred Five Thousand Dollars and No Cents.)

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Hoboken, County of Hudson, State of New Jersey (*not less than two-thirds of all the members thereof affirmatively concurring*) that in accordance with the provisions of N.J.S.A. 40A:4-20 :

1) Emergency temporary appropriations be and the same are hereby made in the amount of $805,000.00 as follows:

   Judgments: $805,000.00

2) Said emergency temporary appropriations will be provided for in the 2014 budget

3) That the City Clerk shall file one certified copy of this resolution with the Director of the Division of Local Government Services.

MEETING: April 16, 2014

APPROVED FOR CONTENT:

Quentin Wiest
Quentin Wiest
Business Administrator

APPROVED AS TO FORM:

Mellissa Longo
Mellissa Longo
Corporation Counsel

Councilperson	Yea	Nay	Abstain	No Vote
Ravi Bhalla	✓			
Theresa Castellano	✓			
James Doyle	✓			
Peter Cunningham	✓			
Elizabeth Mason	✓			
David Mello	✓			
Tim Occhipinti	✓			
Michael Russo	✓			
President Jen Giattino	✓			

A TRUE COPY OF A RESOLUTION ADOPTED BY THE COUNCIL OF THE CITY OF HOBOKEN, N.J. AT A MEETING HELD ON: APR 16 2014

James J. Farrin

CITY CLERK

Introduced by: _____
Seconded by: _____

CITY OF HOBOKEN
RESOLUTION NO. _____

RESOLUTION TO ACCEPT A GRANT AWARD OF $123,954.00 FROM THE U.S. DEPARTMENT OF HOMELAND SECURITY THROUGH THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY FOR THE 2010 PORT SECURITY GRANT PROGRAM

WHEREAS, the Department of Public Safety recently was advised that it would receive One Hundred Twenty Three Thousand Nine Hundred Fifty Four Dollars ($123,954.00) from the U.S. Department of Homeland Security through The Port Authority of New York and New Jersey for the 2010 Port Security Grant Program (the "Program"); and

WHEREAS, the funds from the Program will be used to purchase video surveillance and monitoring equipment along Hoboken's waterfront, as well as to create a monitoring station in Hoboken Police Division; and

WHEREAS, the total cost for this project is $177,023.00, which is more than the funds awarded to the City pursuant to the Program; and

WHEREAS, pursuant to a letter dated June 21, 2012, a copy of which is attached, the Hudson County Prosecutor will permit the City to use up to $53,069.98 from the Law Enforcement Trust Fund for this purpose; and

WHEREAS, pursuant to a prior resolution, a copy of which is attached, the City Council authorized the Administration to apply for the 2010 Port Security Grant Program; and

WHEREAS, the Port Authority of New York and New Jersey has required that the Mayor of City of Hoboken execute a Subgrant Agreement regarding this grant award, a copy of which is also attached; and

WHEREAS, certification of funds is available as follows:

I, George DeStefano, Chief Financial Officer of the City of Hoboken, hereby certify that $53,069.98 is available in the following trust account T-~~03~~-40-000-029; and I further certify that this commitment together with all previously-made commitments and payments does not exceed the funds available in said trust account for the CY2014; and I further certify that the funds available in said trust account are intended for the purpose herein committed.

Signed: _____, **George DeStefano, CFO**

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Hoboken

as follows:

A. This resolution authorizes the Administration to accept the grant from the Program in the amount of $123,954.00, as described in the attached Subgrant Agreement; and

B. The Mayor or her agent is hereby authorized to take action to accept the grant award and obtain the provisions contemplated herein; and

C. This resolution shall take effect immediately upon passage.

Date of Meeting: April 16, 2014

Reviewed:

Quentin Wiest
Business Administrator

Approved as to Form:

Mellissa L. Longo, Esq.
Corporation Counsel

Councilperson	Yea	Nay	Abstain	No Vote
Ravi Bhalla	/			
Theresa Castellano	/			
Peter Cunningham	/			
James Doyle	/			
Elizabeth Mason	/			
David Mello	/			
Tim Occhipinti	/			
Michael Russo	/			
President Jen Giattino	/			

A TRUE COPY OF A RESOLUTION ADOPTED BY THE COUNCIL OF THE CITY OF HOBOKEN, N.J. AT A MEETING HELD ON:

APR 16 2014

CITY CLERK

Budget Account Maintenance

Add | Edit | Close | Delete | << | >> | Detail

Account: I-03-40-000-029

Desc: POLICE DEPARTMENT (LAW ENFORCE TRUST)

Acct Type: Line Item Control

Chk Acct: ITRUST

Cap Flag:

Fund Type: Capital/Trust

Class Id:

Class Id 2:

Activity | Misc | G/L Accounts

Activity To Date				Current Period	
Encumber:	.00	Budgeted:	.00	Expended:	.00
Expended:	215,042.51	Balance:	322,815.72	Trans-In:	.00
Trans-In:	.00			Trans-Out:	.00
Trans-Out:	.00	YTD Requested:	.00	Reimburse:	3,690.00
Reimburse:	537,858.23	Requested Balance:	322,815.72		
Cancel:	.00				

OFFICE OF THE HUDSON COUNTY PROSECUTOR

595 NEWARK AVENUE
JERSEY CITY, NEW JERSEY 07306

EDWARD J. DE FAZIO
PROSECUTOR

GAETANO T. GREGORY
FIRST ASSISTANT PROSECUTOR

TELEPHONE: (201) 795-6400
FAX: (201) 795-3365

June 21, 2012

Director Jon Tooke
Hoboken Public Safety Department
94 Washington Street
Hoboken, New Jersey 07030-0485

Re: Request for Utilization of Law Enforcement Trust Fund

Dear Director Tooke:

Pursuant to your letter dated June 19, 2012, I have reviewed the request for authorization to utilize funds in the amount up to **$53,069.98** from the Hoboken Law Enforcement Trust Fund for the purchase of cameras and monitors.

I have found this request consistent with a "law enforcement purpose" and I am therefore ***approving*** this request.

Kindly advise David K. Porter, Chief of Staff, at (201) 795-6400 ext. 6605 when the above takes place and the exact total cost incurred. Assure that any purchases are conducted in a manner consistent with the Local Public Contracts Law. Please maintain a record of this approval and purchases made there under.

Very truly yours,

EDWARD J. DE FAZIO
PROSECUTOR

EJD/dac

c: David K. Porter, Chief of Staff

CITY OF HOBOKEN

RESOLUTION NO. 10-294

A RESOLUTION APPROVING THE APPLICATION PROCESS FOR THE FY2010 PORT SECURITY GRANT PROGRAM THROUGH THE U.S. DEPARTMENT OF HOMELAND SECURITY.

WHEREAS, the City of Hoboken is interested in participating in the US Department of Homeland Security's FY 2010 Port Security Grant Program., and

WHEREAS, the City of Hoboken agrees to utilize the grant funding award (if approved), for the procurement and implementation of video surveillance and monitoring equipment to be utilized along the city's waterfront, and

WHEREAS, the City of Hoboken is currently operating a city-wide video surveillance program, which will be enhanced and completely interoperable with these proposed additions ,and

WHEREAS, the Hoboken City Council has reviewed the accompanying guidance and application kit and has approved participation in the application process, and

NOW, THEREFORE, BE IT RESOLVED, by the Hoboken City Council that:

1) The Mayor or his designee is authorized to execute the above referenced grant application process, and all other documents to fulfill the intent of the application.

2) As a matter of public policy, the City of Hoboken, wishes to participate to the fullest extent possible with the application process of the U.S. Department of Homeland Security FY2010 Port Security Grant Program .

Approved as to Form:

Michael Kates, Corporation Counsel

Ms. Judith Tripodi, Business Administrator N.J. State Fiscal Monitor

Dated:

SUBGRANT AGREEMENT
BETWEEN
THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
AND
CITY OF HOBOKEN, ACTING BY AND THROUGH THE HOBOKEN POLICE DEPARTMENT
DHS AWARD NUMBER 2010-PU-T0-K005

CFDA 97.056

This Sub-grant Agreement (Agreement) is between The Port Authority of New York and New Jersey (PANYNJ), a municipal corporate instrumentality and political subdivision of the States of New York and New Jersey, with offices located at 225 Park Avenue South, New York, New York 10003, and the City of Hoboken, acting by and through the Hoboken Police Department (Sub-grantee), with offices located at 94 Washington Street, Hoboken, NJ 07030 (collectively, the Parties).

WHEREAS, in August 2010, the PANYNJ and United States Department of Homeland Security (DHS) entered into Cooperative Agreements whereby PANYNJ will administer and coordinate the DHS FY 2010 Port Security Grants (PSGP Grant) and agreed to, among other things, act as DHS's Fiduciary Agent.

WHEREAS, the Sub-grantee submitted a funding request (Investment Justification(s)) to the PANYNJ, through the Port of New York and New Jersey Area Maritime Security Committee (AMSC), for a PSGP Sub-grant for the Project(s) described in the Investment Justification(s) (Project(s)); and

WHEREAS, the Project(s) was/were reviewed and recommended for funding by the AMSC on February 10, 2010, and DHS submitted the release of funds for the Project on March 16, 2011.

NOW THEREFORE, the Parties agree as follows:

1. **Sub-grant**

The PANYNJ, for and on behalf of the DHS, will provide federal assistance for the Project(s) consistent with the approved Project Investment Justification(s) and Budget(s) (Attachment A), as follows:

Investment Justification Project Title	Project Cost	Grant Request
IJ #47-Port Surveillance	$123,954.00	$123,954.00

2. **Effective date, term and modifications to this Agreement**

This Agreement will be in effect on the latest date of execution by the Parties and shall terminate on August 31, 2014, unless extended. Any extension or modification of this Agreement must be made in writing and duly executed by both Parties and subject to approval by DHS.

All Project(s) changes, including changes to the funding implementation plan, and allocation for management and administration, shall require the approval of the PANYNJ, which will seek approval from AMSC, Captain of the Port (COTP) and DHS, where required.

3. **Termination**

PANYNJ may, at its sole discretion terminate this Agreement with respect to the Project(s) if Sub-grantee has failed to adhere to the terms, conditions, obligations and requirements of this Agreement. Subject to DHS approval, PANYNJ will provide Sub-grantee sixty (60) days to cure the terms, conditions, obligations or requirements that the PANYNJ claims the Sub-grantee has failed to adhere to.

4. **Program Requirements and Sub-grantee's obligations**

(A) The Sub-grantee hereby agrees to comply with all federal, state and local laws and regulations that apply to the Project and the PSGP Grant.

(B) **The Sub-grantee is required to read and conform to all requirements of the Port Security Grant Program Guidance and Application Kit for FY 2010, and hereby certifies that it accepts those requirements as binding. The Port Security Grant Program Guidance and Application Kit is available from the PANYNJ upon request, or on-line at:**

http://www.fema.gov/pdf/government/grant/2010/fy10_psgp_guidance.pdf

(C) Sub-grantee shall comply with and execute, simultaneously with the execution of this Agreement, the following Assurances, Certifications and Special Conditions:

i. Assurances for Non-Construction Projects, OMB Standard Form 424B (**Attachment B**); and
ii. Certification Regarding Lobbying (**Attachment C**)
iii. Special Conditions of the PSGP Grant (**Attachment D**).

5. **Request for reimbursement**

Reimbursement Request Form: The Sub-grantee shall pay for all Project(s) Costs upfront, and submit a request for reimbursement of Allowable Project(s) Costs (as such, costs are defined in the FY 2010 Port Security Grant Program Guidance and Application Kit) to the PANYNJ on the Reimbursement Request Form to be provided by the PANYNJ to the Sub-grantee for this purpose. Each Reimbursement Request Form must be signed by an official of the Sub-grantee with authority to bind the Sub-grantee.

Supporting Documentation: All reimbursement requests must include supporting documentation that provides detailed itemization of all expenditures incurred, including purchase orders, vendor contracts, invoices, proof of payment and any other supporting documentation requested by PANYNJ or DHS. Proof of payment includes cancelled checks, wire transfers, electronic payments and/or bank debit advice.

Schedule of reimbursement requests: The Reimbursement Request Form and Supporting Documentation must be transmitted to the PANYNJ on a quarterly basis, no later than ten (10) business days following the end of each quarter, at the following address:

The Port Authority of New York and New Jersey
Attn: PSGP Fiduciary Agent
c/o Port Security Grant Manager
241 Erie Street, Room 202
Jersey City, New Jersey 07310.

Upon receipt of the Reimbursement Request Form(s) duly completed and signed, PANYNJ shall process such request(s) and issue payment to the Sub-grantee within thirty (30) days after receipt of PSGP Grant funds from DHS for the Project(s). Reimbursements shall be made to Sub-grantee via Automated Check Handling (ACH) or wire transfer. All expenditures must be consistent with the goals and objectives of the Investment Justification(s) of the Project(s) and the Project(s) Budget(s).

Reimbursement subject to availability of funds: The Sub-grantee recognizes and agrees that all funding identified in this Agreement is expressly dependent upon the availability of PSGP Grant funds from DHS. A failure of the PANYNJ to make payments under this Agreement or to observe or perform any of its terms and conditions as a result of failure by the DHS to appropriate PSGP Grant funds shall not in any manner constitute a breach of this Agreement. Reduction or termination of this Agreement shall not apply to Allowable Project(s) Costs already incurred by the Sub-grantee where PSGP Grant funds are available to PANYNJ for payment of such costs.

6. **Reports: Quarterly Progress Reports and Closeout Reports**

(A) Quarterly Progress Reports: The Sub-grantee shall submit Quarterly Progress Reports to communicate the status of the Project's activity to the PANYNJ as stated below. The Quarterly Progress Reports should include a detailed accounting of the fiscal activity incurred within the reporting period. The Sub-grantee is required to submit Quarterly Progress Reports for every quarter this Agreement is active, including periods where there is no Project activity. Reimbursement may be withheld if reports are delinquent.

Quarter	Period Covered	Due Date
First Quarter	June 1st – August 31st	September 15th
Second Quarter	September 1st – November 30th	December 15th
Third Quarter	December 1st – February 28th	March 15th
Fourth Quarter	March 1st – May 31st	June 15th

(B) Final Closeout Report: The Sub-grantee is required to submit a separate final report for each Project upon full completion of the Project's activity (Final Closeout Report), in a Closeout Report form to be provided by PANYNJ to the Sub-grantee. The Final Closeout Report should contain an overview of the Project and fiscal activity conducted. The Final Closeout Report is due within sixty (60) days of the Sub-grantee advising the PANYNJ in writing of the Project's completion. The PANYNJ, at its discretion, may withhold reimbursement funds until the Final Closeout Report is received.

7. **Equipment and Training**

I. Equipment purchased for the Project(s)

With respect to Equipment purchased for the Project(s), if any, the following provisions shall apply:

(A) Title: The Sub-grantee shall hold title to the Equipment and keep it free from any legal process or encumbrance whatsoever, including but not limited to liens, attachments, levies, and executions. The Sub-grantee shall give the PANYNJ immediate written notice of any such legal proceedings or encumbrances and indemnify the PANYNJ for any loss caused thereby.

(B) Use of Equipment: The Sub-grantee shall provide the Equipment's serial and model number(s) to the PANYNJ and shall properly track and account for the Equipment until such time as the Equipment is disposed of. The Equipment may only be used by the Sub-grantee for the purposes described in the specific Project's Investment Justification(s), whether or not the Project continues to be supported with federal funds.

(C) Maintenance Plan for the Equipment: The Sub-grantee shall store, operate, repair, maintain and insure the Equipment adequately during its useful life or earlier disposition.

(D) Disposition: Sub-grantee may not sell, destroy or otherwise dispose of the Equipment without prior approval of the PANYNJ and the DHS. The Sub-grantee shall submit notice and request for approval to the PANYNJ for the disposition of the Equipment. Such notice and request shall state the reasons why the Sub-grantee wishes to dispose of the Equipment. The disposition of the Equipment and Sub-grant refund obligations, if any, shall be decided solely by the DHS in accordance with applicable laws and regulations, including 44 CFR Part 13.

II. Training and Exercises conducted for the Project(s)

With respect to Training and exercises conducted for the Project(s), if any, the following provisions shall apply:

(A) Training. Funds used for training purposes are limited to courses (including Maritime Transportation Security Act (MTSA) 109 courses) approved by the Maritime Administration of the United States Department of Transportation (MARAD), the United States Coast Guard (USCG) or the Federal Emergency Management Act (FEMA) (Eligible Training). Information on Eligible Training may be obtained at:

- http://marad.dot.gov
- http://www.uscg.mil/stcw/security.pdf
- http://www.oip·usdoj.gov/odp/training.htm

(B) Overtime and Backfill Costs. Certain overtime and backfill costs associated with sending state and local government personnel to Eligible Training may be allowable. Private sector entities and private sector personnel are not eligible for overtime and backfill cost reimbursement.

(C) Fringe Benefits. Certain employers' contributions under the Federal Insurance Contributions Act, the Workers' Compensation, and the Unemployment Compensation may be allowable.

(D) Dual Compensation not allowed. Employees may not receive compensation from their organizations, units or agencies of government AND from the Sub-grant for the same time period, even if such work may benefit both activities.

(E) Exercises. Funds shall be reimbursed for permitted exercises that directly support facilities and port areas defined in the MTSA. The exercises must be coordinated with the COTP and AMSC, and adhere to the guidelines outlined in DHS Homeland Security Exercise and Evaluation Program (HSEEP). More information

on HSEEP may be found at: https://hseep.dhs.gov/pages/1001_HSEEP7.aspx.

8. Audits

(A) Fiscal Audits: This Agreement is subject to fiscal audits by the PANYNJ, pertinent federal agencies, and their designated entities to ascertain financial compliance with Federal and/or State laws, regulations, and guidelines applicable to the Sub-grant (Fiscal Audits). The PANYNJ will provide 72 hours advance notice (by telephone, electronic mail or first class mail) to Sub-grantee of upcoming PANYNJ audits, and provide notice of upcoming DHS audits if and when it is notified by DHS of such audits. It shall be Sub-grantee's sole responsibility to repay DHS or the PANYNJ any grant funds that are found to be disallowed expenditures after audit.

(B) The Sub-grantee shall perform audits as specified in the United States Office of Management and Budget (OMB) Circular A-133, if applicable. If an independent audit of the Sub-grantee has findings, the Sub-grantee shall forward a copy of such audit(s) to the PANYNJ. Otherwise, the Sub-grantee agrees to forward a copy of its audits to the PANYNJ, upon request.

(C) Site Visits: The PANYNJ, DHS and other entities designated by the PANYNJ or DHS may perform site visits to ascertain the Project's activity and progress. The PANYNJ will, if possible, provide Sub-grantee advance notice of such visits.

9. Sub-grant related transactions – no commingling

(A) Sub-grantee shall ensure that PSGP Sub-grant funds are not commingled with other transactions of the Sub-grantee. This includes with respect to each Project, the establishment of unique budget codes, a separate cost center, and/or a separate chart of accounts for the Sub-grant.

(B) Expenditures must be cross-referenced to supporting sources (for example, purchase orders, invoices, contracts, leases, timesheets, mileage logs, etc.).

(C) Sub-grantee agrees that it shall maintain adequate internal controls and adhere to accounting principles generally accepted in the United States of America.

10. Notices

Except for reimbursement requests pursuant to Section 5, all notices or other communications from either Party relating to this Agreement shall be transmitted:

(A) by electronic mail; **and**
(B) by first-class mail, hand-delivery or reputable express courier

to the other Party, at the address noted below or such other addresses as a Party may designate for itself in writing from time to time.

The Port Authority of New York and New Jersey
Office of Emergency Management
Attention: Gerald McCarty, Director
241 Erie Street, Room 202
Jersey City, NJ 07310
gmccarty@panynj.gov

and if to the Sub-grantee, to the **Authorizing Official(s)** of the Sub-grantee set forth in **section I.B. of the Investment Justification(s)**, or such other address(es) as the Sub-grantee may designate for itself in writing from time to time.

11. Insurance

The Sub-grantee shall require any contractor providing work, providing services and/or equipment that are funded in whole or in part by the PSGP Grant to obtain and provide evidence of commercial general liability insurance covering the obligations of the Sub-grantee until such time as the Project(s) equipment is accepted by Sub-grantee. It is the Sub-grantee's responsibility to maintain and ensure that the type and limits of coverage are accurate and sufficient to cover all claims under this Agreement as they relate to the production, delivery and installation of the Project(s) equipment.

12. No Port Authority Liability

The Port Authority shall have no responsibility of any kind for any agreement, contract or project utilizing funds provided under the Sub-grant and this Sub-grant Agreement. Without limiting the generality of the foregoing, the Port Authority shall have no responsibility for the design, effectuation, maintenance, ongoing operation or any other aspect (including all environmental matters) of the Project(s) or any contract entered into in connection with this Sub-grant and this Sub-grant Agreement. Between the Port Authority and the Sub-grantee, the Sub-grantee assumes all risks of loss or damage to property or injury to or death of persons, and risks of other damages, to whomsoever occurring, arising out of or in any way connected with or related to any of the Project(s), including, without limitation, the design, effectuation, maintenance, operation or any other aspect (including all environmental matters) of the Project(s). The Port Authority shall have no responsibility for providing any monies for the Project except as provided in this Agreement.

13. No Personal Liability

Neither the Commissioners of PANYNJ nor any of them, nor any officer, agent or employee thereof, shall be charged personally with any liability, or held personally liable under any term or provision of this Agreement, or because of its execution or attempted execution, or because of any breach, or attempted or alleged breach, thereof.

14. Disadvantaged Business Enterprises

Sub-grantee assures PANYNJ that it will make every good faith effort to provide for meaningful participation by Disadvantaged Business Enterprises (DBEs) in all subcontracting opportunities associated with this Agreement and the Project, including purchase of equipment, supplies and labor services. The following are illustrative of good faith efforts:

1. Dividing the services and materials to be procured into small portions, where feasible.
2. Giving reasonable advance notice of specific contracting, subcontracting and purchasing opportunities to such DBEs as may be appropriate.
3. Soliciting services and materials to be procured from the Directory of DBEs. The New York State Unified Certification Program (UCP) directory is available on-line at www.nysucp.net. New Jersey's UCP is available on line at www.njucp.net.
4. Ensuring that progress payments are made to DBEs on a timely basis.
5. Assisting DBEs in obtaining bonding or insurance where appropriate.

15. Taxes, licenses, certifications, permits and other examination fees and excises

The Sub-grantee shall pay all taxes, licenses, certifications, permits and other examination fees and excises that may be assessed on its property or operations relating to the Project(s) and shall make all applications, reports and returns required in connection therewith.

16. Assignment

The Sub-grantee shall not assign, transfer, convey, sublet, subcontract or otherwise dispose of this Agreement or any part herein, or of its right, title or interest in this Agreement or in any equipment purchased hereunder, or of its authority to execute this Agreement without the previous consent in writing of the PANYNJ and the DHS.

17. Agreement in full

This Sub-grant Agreement, including the Attachments, is the entire agreement of the Parties, the Parties having made the Sub-grant Agreement the final and complete expression of their agreement. In the event of a discrepancy between this Agreement and the Program Requirements, the Program Requirements shall control.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed as of the date indicated below.

Sub-grantor:
The Port Authority of New York and New Jersey

_____Date: _____
By: Stephanie Dawson
Title: Acting Chief Operating Officer

Sub-Grantee:
City of Hoboken

_____Date: _____
By: Dawn Zimmer
Title: Mayor

Attachment A – Investment Justification

FY10 Port Security Grant Program
Investment Justification

IJ #47

Investment Heading	
Port Area	New York / New Jersey
Applicant	Hoboken Police Department
Investment Name	Port Surveillance
Investment Amount	$123,954.00

COTP Comments & Ranking:

The proposed investment was reviewed and approved by the United States Coast Guard (USCG) Captain of the Port (COTP) or his designee in coordination with the Area Maritime Security Committee (AMSC). This investment is consistent with the approved Port Wide Strategic Risk Management Plan (SRMP) and the COTP priorities and meets all criteria for the Port Security Grant Program (PSGP) as identified in the FY10 Grant Guidance. This project ranked 47 out of 61 projects and scored 13.31 points; (out of 20 maximum) by the COTP or his designee.

I. Background.

I.A. Provide a brief abstract for this Investment.

Under this investment the City of Hoboken seeks the procurement and deployment of digital, wireless, computer-assisted surveillance cameras, providing around–the–clock monitoring of the city's waterfront area and critical transportation infrastructure assets, which are at high risk for a potential terrorist attack, catastrophic event, or natural disaster. This equipment is necessary for the effective detection and deterrence, response, and post incident investigation and analysis.

Video Surveillance Cameras:
This investment includes the purchase and installation of eight (8) aerial video surveillance cameras with three (3) wireless transmitters and receivers along the Hudson River, providing video surveillance of the entire waterfront directly across from Mid-Town Manhattan. Installation of servers and software necessary for this upgrade will further maintain compatibility with the city's current citywide surveillance system. In the event of a catastrophic event, such as a natural disaster or terrorist attack, the proposed waterfront Internet Protocol (IP) web based surveillance system, along with the city's current city-wide system, would have the ability to host an additional two hundred and fifty five (255) concurrent users possessing the proper security credentials. In the case of such an event, the video surveillance system possesses the following specific capabilities: 1) monitoring of the Hudson River waterfront water levels and all watercraft activity in and out of Hoboken; 2) cameras auto patrol the waterfront area with predefined event parameters and 3) alarm notifications sent in the event of a breach of predefined parameters, be it persons, watercraft, or incursion in an unauthorized zone. There are currently no cameras positioned along the Hudson River waterfront area possessing these capabilities.

Video Command Room:

Proposed waterfront cameras will be streamed back to the Hoboken Police Department's radio dispatch room and proposed video command center. Purchased and installed in the video command center will be four (4) liquid crystal display (LCD) commercial security displays, along with four (4) computer servers. The real time video monitoring and data storage will be inter-operable with the current city- wide system. The Hoboken Police Department currently does not have a video command room dedicated to the monitoring of video surveillance. As stated, in the event of a catastrophic event, the system would be able to be accessed via the web by approved agencies possessing proper security credentials including the United States Coast Guard and other federal, state and local law enforcement partners.

I.B. Provide an overview of the port system in which this Investment will take place.

Area of Operations: COTP Zone: New York Eligible **Port**: New York and New Jersey

Captain of the Port New York/New Jersey Zone: The Captain of the Port zone is described in Title 33 CFR 3.05-30. Generally, this includes all of the harbors, bays and rivers within the Port of New York and New Jersey; the New Jersey shoreline north of Long Branch; the southern Long Island shoreline from Rockaway Point to East Rockaway Inlet; the northern Long Island shoreline east to and including the waters of Hempstead Harbor; the waters of Western Long Island Sound; and the Hudson River south of the Federal Lock at Troy, New York. However, the Coast Guard Command is also responsible for traditional Coast Guard duties north of that point to the Canadian Border, including most of the waters of Lake Champlain.

The Port of New York/New Jersey is the hub of an intermodal connector network that connects the marine terminals, via road and rail, to key markets throughout the United States and Canada. It is the third largest container port in the United States, the largest on the East Coast, and 19th largest port in the world, and its six container terminals handle approximately 12% of the nation's cargo volume, 59% of the North Atlantic market share, which is valued at over $166 billion. This represents over $24.4 billion in economic activity, the support of 229,000 jobs, 18 million people locally and another 80-90 million people in a contiguous 10-state area. There are approximately 559 piers, wharves, and docks in the Port of New York/New Jersey, approximately 300 waterfront facilities of which 197 are regulated facilities, and 150 key assets and critical infrastructure situated on approximately 146 miles of waterway. It is also the largest refined petroleum port with over 1400 ship and barge movements a day, in addition to over 700 ferry transits a day and 360,000 annual vessel movements.

Points of Contact for Organization:

Authorizing Official	Project Manager:
Name: Mayor Dawn Zimmer	Name: Chief Anthony P. Falco, Sr.
Address: 94 Washington Street Hoboken, New Jersey 07030	Address: One Police Plaza Hoboken, New Jersey 07030
Phone#: (201) 420-2013	Phone#: (201) 420-2002
Email: jbuonarota@hobokennj.org	Email: falcoa@hobokenpd.org

Ownership or Operation: The City of Hoboken

Role in Providing Layered Protection of Regulated Entities:

The City of Hoboken is responsible for the emergency response along the Hoboken waterfront area within the Port of New York and New Jersey. With Hoboken's proximity to mid town Manhattan, and its numerous transportation hubs, it is a prime target of a terrorist attack and possesses unique vulnerability in regard to a natural disaster or catastrophic event. Responses would include, but not limited to: structural collapses, rail and air crashes, natural disaster, fire, biological or nuclear terrorism event, police functions in regard to evacuation, rescue and recovery, crowd control, and incident investigation.

The City of Hoboken's harbor and intermodal transportation hubs have become some of the busiest in the entire nation. Hudson County waterfront ferry services operate in several municipalities including Jersey City, Weehawken and Hoboken. Hoboken ferry services operate at two locations namely at 14th Street on the North end of the city, and one at the New Jersey Transit Transportation hub located at the southern end of Hoboken. These locations provide direct routes to Manhattan servicing the mid-town 39th Street, World Financial Center, and Pier 11 Wall Street locations. There are approximately 414 ferry transits daily accommodating thousands of commuters. New Jersey Transit estimates that approximately 50,000 people travel through its Hoboken Transportation hub during an average commute, via the transit buses (approximately 6,000), light rail (approximately 11,000), and commuter rail (approximately 34,000). The Port Authority of New York and New Jersey operates the underground rail service adjacent to the NJ Transit Transportation hub, the Port Authority Trans-Hudson (PATH). PATH reports that the weekly average for persons boarding from Hoboken to New York is 157,686 and 141,078 boarding from New York to Hoboken.

Nature of Operations:

The Hoboken Police Department is currentely operating with 155 sworn members of service (MOS), understaffed in regard to our authorized number of sworn members, which is 177. The Police Department's calls for service have progressively increased from 47,797 in 2004 to 69,470 in 2008. Department Traffic stops have risen from 5,095 in 2007 to 8,634 in 2008. The Department provides police services for the entire City of Hoboken, including the entire span of Hoboken's waterfront. Services provided include but are not limited to patrol, traffic, investigation, administrative and community.

Other Important Features:

Over the past two decades the city's approximate one mile waterfront has been transformed from a once dormant, dilapidated and abandoned area into a beautiful landscaped accessible waterfront community. The waterfront renaissance has included the development of office buildings housing various companies, many working in the areas of finance and media. There are restaurants, marinas, parks, athletic fields, along with jogging and bicycle paths. In addition to the world renown "W" Hotel located along the waterfront, there are numerous high-rise multi unit residential condominiums along this exclusive real estate corridor.

Due to the waterfront's close proximity to New York City and its influence on the mass transportation of the entire metropolitan area, Hoboken's role could never be minimized in the event of a disaster such as the one that occurred on September 11, 2001. On "9/11" the city's emergency response resources were stretched far beyond all expectations. As Manhattan was completely "locked down" by 10:00AM and all bridges and tunnels were closed, ferryboats transported more than 70,000 shocked, frightened and/or injured people to the City of Hoboken. Emergency Service and Hazmat Units decontaminated more than 11,000 people. EMS units from more than twenty-five (25) New Jersey communities provided assistance to our Office of

Emergency Management, the Hoboken Fire Department, and the Hoboken Volunteer Ambulance Corp, as more than 2,122 victims received medical attention at the city's triage center. Thousands of people filled the streets of Hoboken trying to find a safe way home. Three shelters were set up for the hundreds who became stranded as transportation systems shut down.

Over the past year Hoboken's waterfront has been utilized as staging areas for two aircraft incidents. On January 15, 2009 US Airlines Flight 1549, with 155 passengers on board, had to make an emergency crash landing into the Hudson River. Among the concerted rescue effort were commercial ferryboats departing from Hoboken. On August 8, 2009 a mid air collision involving a private plane and touring helicopter took place over the Hudson River directly adjacent to Hoboken. Once again, Hoboken was the prime staging location for evidence recovery and post incident investigation.

II. Strategic and Program Priorities

II.A. Describe how the Investment will address one or more of the Port Security Grant Program Priorities, and Area Maritime Security Plan or Captain of the Port Priorities.

The Port of New York and New Jersey AMSC has developed a SRMP built around the Department of Homeland Security (DHS) objectives of Awareness, Prevention, Protection, Response and Recovery. The SRMP was reviewed and approved by the National Review Team on October 3, 2008. In accordance with the SRMP, this investment supports the initiatives of (B5-6) ensure sufficient patrol surveillance and intrusion detection capabilities; (B5-7) provide security systems and infrastructure necessary to protect critical port infrastructure; (C2-2) integrate individual Closed Caption Television (CCTV) systems to maximize Maritime Domain Awareness; and (C3-13) iIncrease random security measures for the detection and deterrence of Improvised Explosive Device (IED) and swimmer attack.

The proposed investment will provide aerial video surveillance of the entire Hoboken waterfront. Cameras will be streamed back to Hoboken police headquarters, radio dispatch room and/or the proposed video command room. All real time monitoring and data storage will be inter-operable with the current city wide video surveillance system. The following system capabilities support the above initiatives:

- The system will be able to monitor Hudson River water levels.
- Ability to monitor arriving and departing ferries and watercraft from Hoboken's waterfront.
- Cameras will auto patrol the waterfront with predefined camera and event based presets.
- Cameras will send alarms if predefined parameters are breached via email, SMS, or paging.
- Cameras and software will be able to detect persons around unauthorized zones or locations along waterfront.
- Additional detection options for jumping into the water, or coming from a ship, boat, or ferry in unauthorized zones or locations.
- The system has the ability to host concurrent users from outside agencies who possess the proper security credentials

Additionally, the proposed investment has been reviewed and approved by the COTP or his designee in coordination with the AMSC. This investment is consistent with the approved SRMP and the COTP priorities and meets all criteria for the Port Security Grant Program as identified in the FY10 Grant Guidance.

III. Equipment and Training

III.A. Provide a list below (or in an attached spreadsheet) of all equipment that you will be purchasing along with the corresponding number from the Authorized Equipment List. Provide the Course Name and Approving Agency for all training courses.

-Outdoor Dome IP Camera. Automatic color camera w/ 26 optical zoom(104X total Zoom) on a pan tilt unit assembled into the outdoor dome w/ automatic heater/defogger and blower. Automatic day/night color camera --- AEL # 14SW-01-VIDA

- 5.3-5.8 GHz Point to Multi Point Wireless Transmitter --- AEL # 04HW-01-INHW

- Video Server. Dual P4, 2 gigs RAM w/ 400 Gig hard drive- enhanced 1 Gig Video card, with camera viewing soft ware (16 camera capability), w/ Microsoft Windows 2003 server, and Norton 9.0 Anti-virus software --- AEL # 04HW-01-INHW

- 42" LCD commercial security screen display. Maximum resolution 1366X 768-2x 15 pin HD 15- VGA OUT-1 x 15 pin HD 15VGA In 2x 9-pin DB-9 – 4 x USB ports –
AEL # 04MD-03-DISP

- Dual Pentium enterprise grade Video Server. Dual Hard Drives and 6 gigs of Ram, 750 Gigs Hard drive w/ High End Video Card w/ 512 local Ram running Server 2003.
AEL # 04HW-01-INHW

IV. Impact

IV.A. Describe how the project offers the highest risk reduction potential at the least cost.

The proposed investment will provide aerial surveillance capabilities to the entire Hoboken waterfront with minimal infringement on personnel resources. With enhanced computer driven detection presets, predetermined parameter breaches will automatically send out alerts. The investment is further cost efficient, as it is part of an expansion to the preexisting city wide video surveillance system, and therefore much of the infrastructure is already in place. The investment will provide regional cost benefit to the entire port, not only through its deterrence, detection, response analysis, and post incident investigation, capabilities, but more importantly, through its remote access capabilities. The Hoboken Police Department's video management platform supports various web based remote access capabilities, which can be utilized concurrently by various outside agencies possessing the proper security credentials.

Utilizing these computer driven detection presets can provide police and emergency services time to respond to a potential incident in order to mitigate its consequences to the various transportation hubs, residents and commuters. If an event is taking place the surveillance system provides the ability to view the incident off site and provide a concerted response effort maximizing its effectiveness. In situations when the entire waterfront must be evacuated, by civilians and emergency responders alike, visual data driven surveillance will be maintained and monitored by the proper agencies.

IV.B. Describe current capabilities similar to this investment.

The City of Hoboken and Hoboken Police Department currently operate a city wide surveillance system which will be completely inter-operable with this proposed investment. Building on the current system provides the most cost effective approach for the securing of the waterfront area, and provides a benefit to the entire region through the systems video management platform, which can host concurrent users. There is very limited CCTV coverage on this part of the Hudson River today and none for the Hoboken Police Department.

Funding & Implementation Plan

V.A. Investment Funding Plan.

	Total Project Cost
Maritime Domain Awareness	$50,000.00
Prevention, Protection, Response and Recovery Capabilities	$73,954.00
Training	
Exercises	
IB IC Implementation	
National Preparedness Architecture	
M&A	
Total	$123,954.00

V.B. Provide a high-level timeline, milestones and dates, for the implementation of this Investment. Possible areas for inclusion are: stakeholder engagement, planning, major acquisitions or purchases, training, exercises, and process/policy updates. Up to 10 milestones may be provided.

Functions:

1) Convene project working group to outline and review equipment specifications and implementation.

2) The City will officially select the vendor within the applicable regulations and Purchase Order(s) will be drawn up detailing the project and equipment specifications.

3) The vendor will provide a working time line. The time line will detail the hardware installation and the configuring of the waterfront project with the city's existing surveillance capabilities.

4) Develop and revise Standard Operating Procedure in regard to the system

5) Provide training to Members of Service (MOS) who have surveillance system responsibilities.

TASKS

Task(s)	Month (s)									
	1 - 3	4-6	7-9	10-12	13 - 15	16-18	19-21	22-24	25-27	27-30
Convene project working group to outline and review equipment specifications and implementation.										
Provide training to MOS who have surveillance system responsibilities.										
The City will officially select the vendor within the applicable regulations and Purchase Order(s) will be drawn up detailing the project and equipment specifications.										
Develop and revise Standard Operating Procedure in regard to the system										
Hardware installation and the configuring of the waterfront project with the city's existing surveillance capabilities.										

FY10 PORT SECURITY GRANT PROGRAM

GRANTEE/PAYEE INFORMATION:			PROJECT BUDGET
1. Name: The City of Hoboken		4. Contact:	Chief Anthony P. Falco, Sr.
2. Department:	Hoboken Police Dept.	5. Phone:	(201) 420-2002
3. Mailing Location:	Hoboken City Hall	6. Email:	falcoa@hobokenpd.org
Address:	94 Washington Street	7. EIN:	226001993
City, St & Zip:	Hoboken, N.J 07030	8. Award Amount: $123,954	

Please provide a project overview: This investment includes the purchase and installation of eight (8) aerial video surveillance cameras with three (3) wireless transmitters and receivers along the Hudson River, providing video surveillance of the entire waterfront directly across from Mid-Town Manhattan. These cameras will be monitored in a new video command room and can also be accessed remotely.

CATEGORY	PROJECT AMOUNT	GRANT AMOUNT	MATCH AMOUNT	COMMENTS
A. Personnel				
Total Personnel:				
B. Fringe Benefits	N/A			
Total Fringe:				
C. Consultants	N/A			
Total Consultants:				
D. Equipment				
Outdoor dome IP cameras w/ brackets and wireless receivers. Install & (1) yr Maintenance	$71,566	$71,566		Eight (8) @ $8,945.75 each
5.3-5.8 GhZ point to point wireless transmitters	$20,400	$20,400		Three (3) @ $6,800. each
Camera viewing software, video server, Microsoft 03 server, and Norton 9.0 Antivirus	$16,447	$16,447		One (1) @ $16,447.each
42" LCD Commercial security display screens w/ brackets, mounts, & Install	$8,745	$8,745		Four (4) @ $2,186.25 each
Dual Pentium enterprise grade video server	$6,796	$6,796		Four (4) @ $1,699.00 each
Total Equipment:	$123,954	$123,954		

Equipment Narrative: Outdoor IP Cameras wirelessly stream video/data from a fixed aerial position covering entire waterfront eight (8) @ $8,945.75 each; 5.3-5.8 wireless point to point transmitters transport wireless signal three (3) @ $6,800 each; Camera viewing software, video server, comp. Server, and antivirus provide sound viewing capability and storage one (1) @ $16,477; 42" LCD displays provide monitoring capabilities for video command room four (4) @ $2,186.25 each; Dual Pentium enterprise grade video server provide video monitoring, and data storage capabilities four (4) @ $1,699.

E. Travel	N/A			
Total Travel:				
F. Supplies	N/A			
Total Supplies:				
I. All Other	N/A			
Total Other:				
GRAND TOTAL:	$123,954	$123,954		

Attachment B – Assurances

OMB Approval No. 0348-0040

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.

2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.

5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).

6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

OMB Approval No. 0348-0040

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2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

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7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

ASSURANCES - NON-CONSTRUCTION PROGRAMS

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2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

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7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.

10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is $10,000 or more.

11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).

14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.

15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.

16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.

17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

PRINT NAME OF AUTHORIZED CERTIFYING OFFICIAL

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE
APPLICANT ORGANIZATION	DATE SUBMITTED

Attachment C – Certification Regarding Lobbying

CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,00 0 and not more than $100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subjec t to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

* APPLICANT'S ORGANIZATION			
* PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE			
Prefix:	* First Name:	Middle Name:	
* Last Name:		Suffix:	
* Title:			
* SIGNATURE:		* DATE:	

Attachment B – Assurances

ASSURANCES - NON-CONSTRUCTION PROGRAMS

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PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

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As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.

2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.

5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).

6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

OMB Approval No. 0348-0040

ASSURANCES - NON-CONSTRUCTION PROGRAMS

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8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.

10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is $10,000 or more.

11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).

14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.

15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.

16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.

17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

PRINT NAME OF AUTHORIZED CERTIFYING OFFICIAL

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE

APPLICANT ORGANIZATION	DATE SUBMITTED

Attachment C – Certification Regarding Lobbying

CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,00 0 and not more than $100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subjec t to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

* APPLICANT'S ORGANIZATION			
* PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE			
Prefix:	* First Name:	Middle Name:	
* Last Name:		Suffix:	
* Title:			
* SIGNATURE:		* DATE:	

3

Introduced by: _____

Seconded by: _____

CITY OF HOBOKEN

RESOLUTION NO. _____

RESOLUTION TO ACCEPT A GRANT AWARD IN THE AMOUNT OF $142,080.00 FROM THE N.J. OFFICE OF EMERGENCY MANAGEMENT FOR THE HAZARD MITIGATION GRANT PROGRAM – ENERGY ALLOCATION INITIATIVE

WHEREAS, pursuant to a letter dated October 9, 2013, a copy of which is attached, the Administration was advised that it was eligible for $142,080.00 in grant funds as part of the N.J. Office of Emergency Management Hazard Mitigation Program – Energy Allocation Initiative (the "Program"); and

WHEREAS, the Administration submitted a Letter of Intent to the N.J. Office of Emergency Management for the Program for grant funding to purchase and install permanent emergency backup generators for Hoboken Fire Division headquarters located at 201 Jefferson Street, and copy of the Letter of Intent is attached; and

WHEREAS, due to timing constraints, the Mayor signed the Letter of Intent for submission on or around March 22, 2014; and

WHEREAS, the total cost of the project is $223,100.00, which exceeds the amount of grant funds from the Program, and the City will contribute $81,020.00 to complete the project; and

WHEREAS, certification of funds is available as follows:

I, George DeStefano, Chief Financial Officer of the City of Hoboken, hereby certify that $81,020.00 is available in the following appropriation C-04-60-713-3[illegible]; and I further certify that this commitment together with all previously made commitments and payments does not exceed the funds available in said appropriation for CY2014; and I further certify that the funds available in the said appropriation are intended for the purpose herein committed.

Signed: _____ **George DeStefano, CFO**

WHEREAS, the City Council accepts the terms of the grant funding from the Program.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Hoboken as follows:

A. This resolution authorizes the submission of the attached Letter of Intent the N.J. Office of Emergency Management; and

B. This resolution is hereby retroactive to the date that the Mayor approved the attached Letter of Intent for submission; and

C. This resolution shall take effect immediately upon passage.

Meeting date: April 16, 2014

APPROVED:

Quentin Wiest
Business Administrator

APPROVED AS TO FORM:

Mellissa L. Longo
Corporation Counsel

Councilperson	Yea	Nay	Abstain	No Vote
Ravi Bhalla	/			
Theresa Castellano	/			
Peter Cunningham	/			
James Doyle	/			
Elizabeth Mason	/			
David Mello	/			
Tim Occhipinti	/			
Michael Russo	/			
President Jen Giattino	/			

A TRUE COPY OF A RESOLUTION ADOPTED BY THE COUNCIL OF THE CITY OF HOBOKEN, N.J. AT A MEETING HELD ON: APR 16 2014

CITY CLERK

Budget Account Maintenance

Add | Edit | Close | Delete | << | >> | Detail

Account: C-04-60-713-310 ... Desc: Z-248 BACKUP GENERATORS ...

Acct Type: Sub Chk Acct: ICAPITAL Cap Flag:

Fund Type: Capital/Trust Class Id: Class Id 2:

Activity | Misc | G/L Accounts

Activity To Date:				Current Period	
Encumber:	.00	Budgeted:	754,000.00	Expended:	.00
Expended:	.00	Balance:	754,000.00	Trans-In:	.00
Trans-In:	.00			Trans-Out:	.00
Trans-Out:	.00	YTD Requested:	.00	Reimburse:	.00
Reimburse:	.00	Requested Balance:	754,000.00		
Cancel:	.00				

Control Balance: 925,000.00 Control Requested Balance: 925,000.00

HAZARD MITIGATION GRANT PROGRAM (HMGP) DR4086

ENERGY ALLOCATION INITIATIVE PROPOSED SPEND PLAN

Disaster: DR 4086

Applicant: City of Hoboken

Applicant County: Hudson

Applicant Zip Code: 07030

FIPS Code: 34017-32250

Project Title: 201 Jefferson Street Firehouse Generator and Retrofit

Federal Share (Energy Allocation) **$142,080**_____
Anticipated Non Federal Share **$81,020**_____
Anticipated Total Proposed Project Cost **$223,100**_____
(***All costs in excess of the federal Energy Allocation will be the responsibility of the jurisdiction or entity***)

Applicant Point of Contact: Name/Title/address/County/email/phone
Stephen D. Marks
Assistant Business Administrator
94 Washington St. Hoboken, NJ 07030
Hudson County
smarks@hobokennj.gov
201-420-2059

Applicant Authorized Agent: Name/Title/address/County/email/phone
Dawn Zimmer
Mayor
94 Washington St. Hoboken, NJ 07030
Hudson County
dzimmer@hobokennj.gov
201-420-2018

Proposed Project Description:

The City of Hoboken intends to use the energy allocation to finance the retrofit and installation of a 50kW emergency back-up generator at 201 Jefferson Street, Firehouse Headquarters. The Jefferson Street Firehouse is listed on the NJ DEP Historic Registration Office, New Jersey and National Historic Register as ID#1462; NR: #8400268.

The City will combine the $142,080 energy allocation with $81,020 of city funds to install generation and retrofit the Fire Department Headquarters electrical system. The Fire HQ at 201 Jefferson Street would need an electrical system retrofit for an estimated $162,000 and the installation of a generator for an estimated $61,000[i]. This includes the build-out and installation of a 100 sq. ft. elevated platform to accommodate a 50kW natural gas generator. The platform will be constructed 5 feet above the existing grade exceeding the 100 year flood elevation as recommended by FEMA. The total cost for the retrofit of the Fire Headquarters and installation of emergency 50kW generator is an estimated $223,100.00. The generator will be used to power fire headquarters during periods when electricity is unavailable. Electrical interconnects and bilateral communication capabilities with PSE&G are included within this cost.

The retrofit of the Firehouse HQ is a performance requirement given that the existing generator and electrical system lies below the 100 year floodplain The equipment necessary for retrofitting include the incoming main breaker to the facility, and all transformers, panels and wiring involved in distributing power throughout the building as well as existing emergency standby generators and wiring. All of this equipment must be retrofitted to permit power to be delivered to the full building. EI Associates performed further analysis and made estimates of the costs necessary to retrofit select buildings in the City.

Detailed Project Description (Scope of Work and Line Item Budget):

Use as many fields as necessary (hit Tab button to create more fields)

Activity	Estimated Cost	Milestones	Deliverable
Perform retrofitting of Firehouse HQ	$162,000.00	City of Hoboken will contract with electrician to perform update of electrical system. This update will enable the use of total facility with new 50 kW generator.	
Installation of back-up generator	$61,100.00	City of Hoboken will execute contract to provide equipment, plumbing, and structural work for installation and purchase of the 50 kW NG generator.	

Please return the Proposed Spend Plan by December 16, 2013 to NJOEM at the following email address:

Additional assistance is available in developing the Proposed Spend Plan:

NON-TECHNOLOGY QUESTIONS. Questions regarding the Proposed Spend Plan, application process, FEMA regulations, other general (non-technology) questions	NJ Office of Emergency Management 609-508-6557 or 609-439-8196 njmitigation@gw.njsp.org
TECHNOLOGY QUESTIONS.	NJ Board of Public Utilities (866) NJ-SMART HMGPTechnologies@njcleanenergy.com

[i] Hoboken Generators ROM PDF

Rough Order of Magnitude Estimate, +/- 30% 12/16/2013 GAL

City of Hoboken / Back Up Generators

	Equipment	Plumbing	Structural	Electric	TOTAL
801 Clinton St.	$ 46,450	$ 3,500	$ 12,000	$ 207,750	**$ 269,700**
501 Observer Hwy.	$ 46,450	$ 12,750	$ 9,600	$ 156,750	**$ 225,550**
707 Clinton St.	$ 46,450	$ 30,000	$ 10,000	$ 169,500	**$ 255,950**
201 Jefferson St.	$ 48,500	$ 3,000	$ 9,600	$ 162,000	**$ 223,100**
1313 Washington St.	$ 48,500	$ 11,000	$ 7,400	$ 168,750	**$ 235,650**
106 Hudson St.	$ 95,000	$ 37,500	$ 10,000	$ 165,500	**$ 308,000**
94 Washington St.	$ 115,000	$ 160,000	$ 50,000	$ 626,000	**$ 951,000**

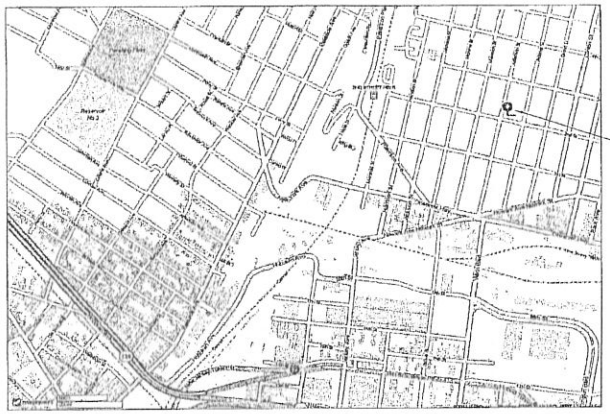
Note:

This estimate is based on the estimator's preliminary review of the provided documents and is the estimator's opinion of what the projects could cost.
References on file were used to index to Hoboken New Jersey labor productivity costs and material costs
All work is assumed to be performed during normal business hours
Discovery or remediation of any hazardous materials is not included
Relocation, rerouting of any equipment/utilities (both above or below ground) are not included unless noted on the drawings

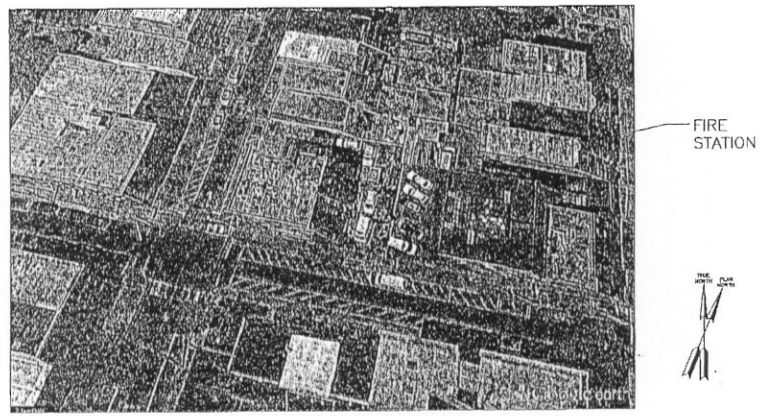
CITY OF HOBOKEN

INSTALLATION OF EMERGENCY BACK-UP GENERATOR AT FIRE STATION

201 JEFFERSON STREET HOBOKEN, NJ 07030



VICINITY MAP
N.T.S.



SITE MAP
N.T.S.

CODE INFORMATION

APPLICABLE CODES
ALL WORK SHALL BE DONE IN ACCORDANCE WITH NJUCC AND ITS AMENDMENTS, AND THE FOLLOWING:
INTERNATIONAL BUILDING CODE IBC 2009– NJ EDITION
INTERNATIONAL MECHANICAL CODE 2009
THE NATIONAL ELECTRICAL CODE 2011– NJ EDITION
THE NATIONAL STANDARD PLUMBING CODE 2009– NJ EDITION

PROJECT NOTES:

PERMANENT SEEDING SPECIFICATIONS

ANY LAWN AREAS DISTURBED AS A RESULT OF THE CONSTRUCTION ACTIVITY SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS LISTED BELOW.

A. TOPSOIL SHALL BE PLACED AT A UNIFORM MINIMUM DEPTH OF 5".

B. APPLY THE FOLLOWING MINIMUM RATES LIMESTONE AND FERTILIZER TO THE SOIL.
— APPLY LIMESTONE AT A RATE OF 1.0 TONS PER ACRE OR 46 LBS. PER 1000 SQ. FT. WORK INTO TOP 3" OF SOIL.
— APPLY 10-20-10 STARTER FERTILIZER AT A RATE OF 1000 LBS. PER ACRE OR 23 LBS. PER 1000 SQ. FEET AND WORK INTO TOP SOIL.
— APPLY 10-10-10 FERTILIZER AT RATE OF 500 LBS. A RATE OF 1200 LBS. PER ACRE OR 23 LBS. PER 1000 SQ. FEET AND WORK INTO TOP 2" OF TOPSOIL.
— APPLY STRAW MULCH AT THE RATE OF 3 TONS PER ACRE.
— USE CRIMPER TO ANCHOR MULCH AND PREVENT WHICH FROM BLOWING.

C. PERMANENT MIXTURE:
GENERAL LAWN AREAS.
MIXTURE TYPE A: RCS TALL FESCUE
10% PERENNIAL RYEGRASS
10% KENTUCKY BLUEGRASS
10% MIXTURE

– APPLICATION RATE OF 150 LBS. PER ACRE OR 6.5 LB. PER 1000 SQ. FT.

LIST OF DRAWINGS:

T00 TITLE SHEET

PLUMBING

P00 PLUMBING GENERAL NOTES, ABBREVIATIONS & LEGEND
P10 PLUMBING FIRST FLOOR PLANS, RISER DIAGRAM & NOTES

ELECTRICAL

E00 ELECTRICAL GENERAL INFORMATION
E10 ELECTRICAL NEW WORK & DEMOLITION PLANS
E40 ELECTRICAL DETAILS SHEET 1 OF 2
E41 ELECTRICAL DETAILS SHEET 2 OF 2
E50 ELECTRICAL SINGLE LINE
E90 ELECTRICAL SPECIFICATIONS

STRUCTURAL

S10 PLATFORM FRAMING PLAN & SECTION

REV	REVISION DESCRIPTION	BY	DATE
1	ISSUED FOR CONSTRUCTION	PPM	22 NOV 2013

EI ARCHITECTURE ENGINEERING PLANNING
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A MEMBER ASSOCIATION WHOLLY NJ OWNED AND CONTROLLED

ROBERT W. PAINE, P.E. PROFESSIONAL ENGINEER LICENSE NO. NJ 0041390 MECHANICAL

SCALE AS NOTED
DRAWN BY: JP
DESIGNED BY: JP
CHECKED BY:
APPROVED BY:
PROJECT MANAGER:

PROJECT: CITY OF HOBOKEN
INSTALLATION OF EMERGENCY BACK-UP GENERATOR
FIRE STATION
201 JEFFERSON STREET
HOBOKEN NEW JERSEY

TITLE: TITLE SHEET

EIA DRAWING NO. T00

CLIENT DWG. NO. - - - - -

EIA PROJECT NO. 0021452.00

ELECTRICAL GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
2. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
3. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 12 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 6 INCH FROM PIPE COVERS).
4. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREAD OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
5. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED. DO NOT RUN CONDUIT IN PRECAST ROOF SLABS, IN 2 INCH SLABS OR IN TERRAZZO FLOOR FINISH.
6. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH 1/4" NYLON PULL ROPE.
7. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
8. VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
9. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
10. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE, AND IN ACCORDANCE WITH NEC 2011.
11. PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
12. EMPTY RACEWAY RUNS: PROVIDE PULLBOXES EVERY 100 FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
13. JUNCTION AND PULLBOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.
14. SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
15. NOT USED.
16. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
17. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. COMMON BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
18. WIRE COLOR CODING: AS PER CODE. WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
19. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
20. ALL OUTDOOR CONDUITS SHALL BE RIGID THREADED GALVANIZED STEEL. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
21. ALL INDOOR CONDUITS SHALL BE EMT. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
22. CONTRACTOR SHALL ENGAGE THE SERVICES OF A NETA CERTIFIED TESTING AGENCY TO PERFORM ACCEPTANCE TESTING IN COMPLIANCE WITH ANSI/NETA ATS-2013. ALL RESULTS SHALL BE SUBMITTED TO THE ENGINEER AND ARCHITECT FOR REVIEW AND APPROVAL. ANYTHING THAT FAILS THE ANSI/NETA ATS-2013 ACCEPTANCE TEST SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE.

GROUNDING AND BONDING NOTES:

1. UNLESS OTHERWISE NOTED OR DIMENSIONED, EXACT LOCATION OF GROUND RODS, GROUNDING & BONDING CONNECTIONS SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR AND SHALL MEET REQUIREMENTS OF NEC 2011 ARTICLE 250 AND NFPA 780. THERE SHALL BE A 3-OHMS OR LESS TO GROUND FOR THE EQUIPMENT GROUND LOOP AROUND THE ENTIRE BUILDING. THE LIGHTNING PROTECTION GROUND LOOP AROUND THE ENTIRE BUILDING SHALL MEET 1-OHMS OR LESS TO GROUND. THE EQUIPMENT GROUND LOOP AND THE LIGHTNING PROTECTION GROUND LOOP SHALL BE A MINIMUM OF 6' APART.
2. GROUNDING LOOP
   - A. UNLESS OTHERWISE SPECIFIED LOOP CONDUCTOR SHALL BE BARE COPPER, STRANDED #4/0 AWG MIN
   - B. DEPTH = 30" MIN
   - C. DEPTH – 35" MIN WHERE ADJACENT TO FOUNDATION WALL OR GRADE BEAM.
   - D. DEPTH – 30" MIN WHERE ADJACENT TO FOOTING
3. UNLESS OTHERWISE NOTED, GROUNDING LEADS TO NON-ELECTRICAL EQUIPMENT AND STRUCTURAL MEMBERS MUST BE #2/0 AWG MIN. GROUNDING LEADS TO ELECTRICAL EQUIPMENT MUST BE SIZED IN ACCORDANCE WITH NEC BUT NOT SMALLER THAN #4 AWG
4. GROUNDING LEADS TO ELECTRICAL MOTORS: GREEN THW 600V GROUND WIRE TO BE RUN IN CONDUIT TOGETHER WITH POWER CONDUCTORS AND AS PART OF A MULTI-CONDUCTOR CABLE. SIZE AS SHOWN AND IN ACCORDANCE WITH NEC TABLE.
5. BURIED GROUNDING CABLE CROSSING METALLIC STRUCTURES, SUCH AS CONDUITS OR PIPELINES, SHALL BE SEPARATED A MINIMUM OF 12" FROM SUCH STRUCTURES.
6. DO NOT USE PIPES AND EQUIPMENT BODIES AS A GROUNDING PATH.
7. LOOPED GROUNDING RISERS MUST BE CONTINUOUS OR HAVE EXOTHERMIC WELD CONNECTIONS. UNLESS OTHERWISE NOTED, USE EXOTHERMIC WELD CONNECTIONS UNDERGROUND AND IN ALL INACCESSIBLE LOCATIONS.
8. USE PRESSURE CONNECTORS ABOVE GROUND ONLY. (SEE NOTES 9A, B & C)
9. ALL GROUNDING CLAMPS AND CONNECTORS SHALL HAVE (SILICONE BRONZE) HARDWARE.
   - A. ALL SURFACES SHALL BE CLEANED TO BARE METAL BEFORE MAKING GROUNDING CONNECTIONS
   - B. APPLY ELECTRICAL JOINT PASTE "NO-OXIDE" UNDER FITTINGS.
   - C. PAINT EXPOSED SURFACES OF ALL PRESSURE CONNECTIONS WITH ZINC CHROMATE.
10. SUPPORT EXPOSED GROUNDING WIRE AT 5' INTERVALS WITH GALVANIZED MALLEABLE IRON STEPS. LIGHTNING PROTECTION SHALL ADHERE TO APPLICABLE PROVISIONS IN NFPA 780.
11. LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE GROUNDING LOOP AT A SINGLE GROUNDING INTERCONNECTION POINT, IN ACCORDANCE WITH NEC 2011 ARTICLE 250 AND NFPA 780.
12. DOWN CONDUCTORS SHALL BE FURNISHED AND INSTALLED IN PVC CONDUIT AND SHALL BE CONCEALED IN WALL AND UNDER ROOF.
13. MAIN CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NFPA 780 BUT NOT SMALLER THAN #2 AWG AND SHALL BE FURNISHED AND INSTALLED ON ROOF IN ACCORDANCE WITH NFPA CHAPTER 4.
14. IN ADDITION TO THE AIR TERMINALS REQUIRED BY NFPA 780 CHAPTER 4, AIR TERMINALS SHALL BE PROVIDED FOR ALL HVAC, MECHANICAL, ELECTRICAL or METAL BODIES ON THE ROOF, THIS IS IN ADDITION TO THE BONDING CONDUCTOR TO THE LIGHTNING PROTECTION SYSTEM.
15. FURNISH AND INSTALL A 2-HOUR FIRE RATED SEALING COMPOUND AT ALL INTERIOR PENETRATIONS.
16. FURNISH AND INSTALL A WEATHER RATED SEALING COMPOUND AT ALL EXTERIOR PENETRATIONS. GROUNDING LOOP TO ENTER BUILDING FROM BENEATH THE SLAB AND BECOME EXPOSED AT THIS LOCATION. EXPOSED GROUNDING CONDUCTOR TO BE ROUTED IN PVC CONDUIT.
17. CONNECTION TO THICKENED BUILDING SLAB, CONNECT REBAR FROM MULTIPLE POINTS FROM THE EQUIPMENT GROUND LOOP TO PROVIDE ELECTRICAL CONTINUITY THROUGHOUT THE ENTIRE SLAB. ELECTRICAL CONTINUITY SHALL BE ACHIEVED BY TACK WELDING OR TIGHTLY WRAPPING REBAR WITH WIRE.
18. UNCONVENTIONAL, NON-UL LISTED OR LIGHTNING PROTECTION SYSTEMS NOT INSTALLED IN STRICT COMPLIANCE TO NFPA 780 ARE STRICTLY PROHIBITED.

WORK SCOPE NOTES

1. COORDINATE ALL WORK WITH THE CITY OF HOBOKEN.
2. PRIOR TO THE START OF ANY WORK, THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF CONSTRUCTION AND ALL SHOP-DRAWINGS RELATED TO THIS PROJECT TO THE OWNER/ CONSTRUCTION MANAGER / ENGINEER FOR REVIEW AND APPROVAL.
3. PRIOR TO THE START OF ANY WORK, THE CONTRACTOR SHALL COORDINATE, FILE ALL FORMS AND SCHEDULE ALL WORK REQUIRED TO COMPLETE SCOPE OF WORK WITH PSE&G.INSTALLATION SHALL ADHERE TO PSE&G RULES AND REGULATIONS.
4. BASE- BID SCOPE OF WORK SHALL CONSIST OF PROVIDING ALL LABOR, MATERIALS, SUPPORT, MOUNTING, EQUIPMENT, PROGRAMMING, ANSI/NETA 2013 ATS TESTING AND COMMISSIONING FOR THE FOLLOWING:
   - 4.1. REMOVE EXISTING GENERATOR, AUTOMATIC TRANSFER SWITCH, AND ALL ASSOCIATED WIRING AND CONDUIT.
   - 4.2. REMOVE EXISTING 200A 1Ø 240/120V PANEL AND SERVICE EQUIPMENT. RETAIN CIRCUITS FOR CONNECTION TO NEW PANEL DURING NEW WORK PHASE.
   - 4.3. INCREASE EXISTING 100A 3Ø, 4W 208/120V TO 200A 3Ø, 4W 208/120V
   - 4.4. FURNISH AND INSTALL NEW GENERATOR, AUTOMATIC TRANSFER SWITCH, SERVICE RATED FUSED SWITCH AND ALL ASSOCIATED CONDUIT, WIRE, SIGNAGE, ARC FLASH LABELS AND ALL DEVICES REQUIRED IN ACCORDANCE WITH THE DRAWINGS.
   - 4.5. FURNISH AND INSTALL 200A 3Ø, 4W 208/120V PANEL AND REDISTRIBUTE EXISTING LOADS RETAINED FROM DEMOLITION.
5. POWER SHALL BE MAINTAINED DURING RENOVATIONS. COORDINATE OUTAGES WITH OWNER A MINIMUM OF 2 WEEKS PRIOR TO OUTAGE. OUTAGE SHALL BE TO MAKE FINAL CONNECTIONS TO NEW EQUIPMENT AND SHALL BE KEPT TO A MINIMUM.

DRAWING SCHEDULE

DWG. NO.	DRAWING TITLE	11/22/2013 – ISSUE FOR CONSTRUCTION				
E00	ELECTRICAL GENERAL INFORMATION	•				
E10	ELECTRICAL NEW WORK AND DEMOLITION PLANS	•				
E40	ELECTRICAL DETAILS SHEET 1 OF 2	•				
E41	ELECTRICAL DETAILS SHEET 2 OF 2	•				
E50	ELECTRICAL SINGLE LINES	•				
E90	ELECTRICAL SPECIFICATIONS	•				

SINGLE LINE DIAGRAM

- 480V / 120/208 POWER TRANSFORMER VOLTAGES, WINDINGS AND SIZE AS INDICATED
- GROUND CONNECTION
- 100A/90A FUSED SAFETY SWITCH – 100 AMP SWITCH / 90 AMP FUSE
- 100A UNFUSED SAFETY SWITCH – 100 AMP SWITCH
- CIRCUIT BREAKER – DRAW OUT TYPE – 100 AMP FRAME / 90 AMP TRIP
- CIRCUIT BREAKER – MOLDED CASE TYPE – 100 AMP FRAME / 90 AMP TRIP
- COMBINATION MOTOR CONTROLLER AND FUSED DISCONNECT SWITCH; SWITCH AMPS/FUSE AMPS/# OF POLES, VOLTAGE RATING & STARTER SIZE AS REQ'D
- COMBINATION MOTOR CONTROLLER AND CIRCUIT BREAKER TRIP AMPS / # OF POLES, VOLTAGE RATING & STARTER SIZE AS REQ'D
- DIGITAL MULTIMETER
- SHUNT TRIP RELAY
- GENERATOR
- CAPACITOR

POWER

- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER – SPECIFIED BY OTHERS, INSTALLED BY EC
- MOTOR STARTER/DISCONNECT – SPECIFIED BY OTHERS, INSTALLED BY EC
- ENCLOSED CIRCUIT BREAKER
- MOTOR
- FLUSH MOUNTED 208/120 VOLT PANELBOARD
- SURFACE MOUNTED 208/120 VOLT PANELBOARD
- FLUSH MOUNTED 480/277 VOLT PANELBOARD
- SURFACE MOUNTED 480/277 VOLT PANELBOARD

ABBREVIATIONS

- E – EXISTING
- R – REMOVE
- ER – EXISTING TO BE RELOCATED
- RE – RELOCATE EXISTING
- N – NEW

GENERAL

- DRAWING NOTE DESIGNATION
- DEMOLITION NOTE DESIGNATION
- POINT OF DEMOLITION
- POINT OF CONNECTION
- PLAN NUMBER / DRAWING NUMBER
- EQUIPMENT TYPE / EQUIPMENT NUMBER

LINE TYPES

- DEMOLITION LINE
- EXISTING TO REMAIN LINE
- NEW LINE

DO NOT SCALE DRAWING USE DIMENSIONS ONLY

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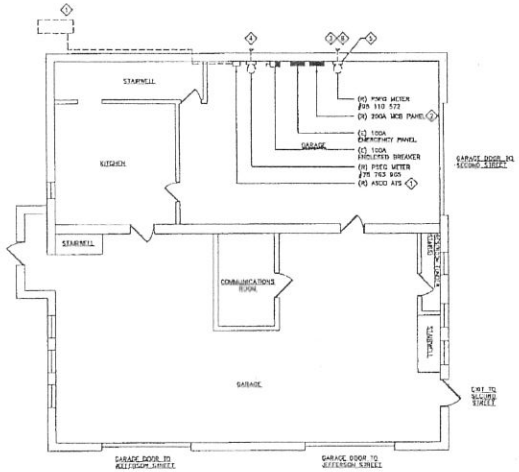
1	ISSUE FOR CONSTRUCTION		11/22/2013

EI Associates
ARCHITECTS & ENGINEERS, PA

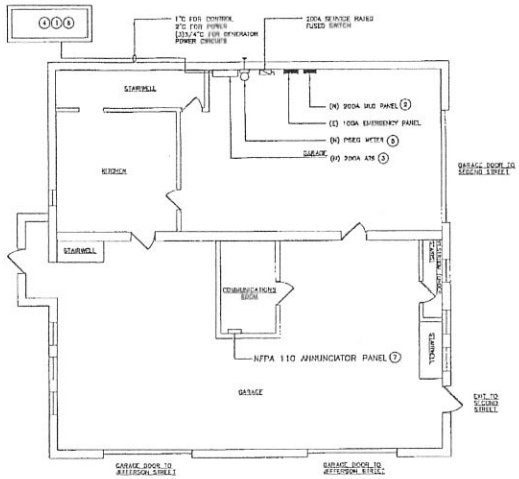
PROJECT: CITY OF HOBOKEN
INSTALLATION OF EMERGENCY BACK-UP GENERATOR
FIRE STATION
201 JEFFERSON STREET
HOBOKEN, NEW JERSEY

TITLE: ELECTRICAL GENERAL INFORMATION

SCALE: AS NOTED
EA DRAWING NO. E00



DEMOLITION PLAN (1 / E10)
3/16" = 1'-0"



NEW WORK PLAN (2 / E10)
3/16" = 1'-0"

GENERAL ELECTRICAL NOTES

1. FOR ADDITIONAL NOTES AND SYMBOLS SEE DRAWING E00.
2. FOR SINGLE-LINE RISER TO DRAWING E50.
3. FOR DETAILS SEE DRAWINGS E40 AND E41.
4. FOR SPECIFICATIONS REFER TO DRAWING E90.
5. THESE DRAWINGS ARE REPRESENTATIVE OF THE SCOPE AND NATURE OF WORK. IT IS NOT GUARANTEED TO REPRESENT EXACT FIELD CONDITIONS. CIRCUIT NUMBERS AND DIMENSIONS, IF SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY FIELD CONDITIONS, CIRCUIT NUMBERS AND DIMENSIONS AND TO COORDINATE THE WORK WITH THAT OF THE CONSTRUCTION MANAGER.
6. ALL JUNCTION BOXES SHALL BE SECURED IN ACCORDANCE WITH 2011 NATIONAL ELECTRICAL CODE.
7. FURNISH AND INSTALL UPDATED SCHEDULES FOR ALL POWER PANELS CLEARLY IDENTIFYING ALL NEW AND SPARE CIRCUITS.
8. ALL JUNCTION BOXES SHALL BE SIZED, FURNISHED AND INSTALLED IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE.
9. ALL GROUNDING SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE ARTICLE 250.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE GENERATOR WITH INTERLOCK TO PREVENT THE EMERGENCY LOADS AND LOND BANK FROM BEING CONNECTED SIMULTANEOUSLY.
11. PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS FOR ALL WORK INCLUDING SWITCHGEAR, PANELS, ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE GENERATOR, FIRE ALARM PANEL/LATE ETC.
12. UPON COMPLETION OF PROJECT, THE CONTRACTOR SHALL CONFIRM THE ENTIRE SHELF/DOR/FLOOR PLANS AND SHALL PROVIDE A MARKED-UP COPY TO THE OWNER FOR BUILDING RECORD.
13. CONTRACTOR SHALL ENGAGE THE SERVICES OF THE FIRE ALARM SYSTEM MAINTAINER FOR ALL CONNECTIONS AND POWER DISRUPTIONS TO THE FIRE ALARM SYSTEM.
14. ALL CONDUITS SHALL HAVE EAT-20 GROUNDING LUG CONDUIT BUSHINGS CONNECTED TO A COMMON BONDING BAR OR LUG IN EVERY METALLIC ENCLOSURE.
15. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH THE SITE/CIVIL/ARCHITECTURAL/STRUCTURAL PLANS & THE OWNER/OWNER.
16. THE CONTRACTOR SHALL SUBMIT A FULL SHORT-CIRCUIT AND COORDINATION STUDY PERFORMED BY A NJ LICENSED PE TO ENSURE EMERGENCY SYSTEM COORDINATION IN ACCORDANCE WITH NEC 700.27. CIRCUIT BREAKERS SHALL BE SIMILAR TO THE SQUARE D MASTER CIRCUIT SERIES OR APPROVED EQUAL. INSTALLATION OF OVERCURRENT PROTECTIVE DEVICES WITHOUT SUBMISSION OF STUDY IS SUBJECT FOR REVIEW AND APPROVAL MAY RESULT IN CONTRACTOR REPLACING OVERCURRENT PROTECTION DEVICES AT THE CONTRACTORS EXPENSE.
17. CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR TO KEEP ALL COMMUNICATIONS AND LIGHTING OPERATIONAL WHILE ELECTRICAL SERVICE IS DOWN.
18. CONTRACTOR SHALL BALANCE ALL LOADS IN NEW PANEL.
19. CONTRACTOR SHALL FURNISH AND INSTALL CUSTOM ARC FLASH LABELS. LABELS SHALL BE A MINIMUM OF 3X7"WIDE, FULL COLOR AND SELF-ADHESIVE. PRIOR TO INSTALLATION, A SAMPLE LABEL SHALL BE SUBMITTED TO THE OWNER'S FOR REVIEW AND APPROVAL. ALL PANELS, SWITCHBOARDS, SWITCHES, AUTOMATIC TRANSFER SWITCHES AND ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH AN ARC FLASH LABEL. AT A MINIMUM, ARC FLASH & SHOCK HAZARD LABELS WITH APPROPRIATE INFO SHALL CONTAIN :
   - FLASH HAZARD BOUNDARY
   - INCIDENT ENERGY IN CAL/CM^2 (FLASH HAZARD AT 18")
   - PROTECTIVE EQUIPMENT (PROTECTIVE GEAR BEGINNING UNDER NFPA 70E & OSHA)
   - LIMITED APPROACH BOUNDARY
   - RESTRICTED APPROACH BOUNDARY
   - PROHIBITED APPROACH BOUNDARY
   - PANEL DESIGNATION
17. CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED SIGNAGE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRIC CODE 700.7 FOR GENERATORS AND SERVICE ENTRANCE EQUIPMENT. ALL SIGNAGE SHALL BE ENGRAVED ON HARD PLASTIC AND SECURELY ATTACHED TO EQUIPMENT WITHOUT COMPROMISING THE EQUIPMENT'S NEMA RATING
18. THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER FOR ALL ELECTRICAL EQUIPMENT, SUPPORTS AND INCORPORATING PADS.
19. ALL GENERATORS SHALL BE UL-2200.
20. CONTRACTOR SHALL MARK THE AREA WHERE THE GENERATOR, ATS OR ANY ELECTRICAL EQUIPMENT SHALL BE INSTALLED WITH EITHER DARK OR 9' OUTDOOR SPRAY PAINT. THE MARK SHALL BE THE EXACT DIMENSIONS OF THE EQUIPMENT AND THE LOCATIONS SHALL BE APPROVED BY THE OWNER AND ARCHITECT PRIOR TO THE START OF ANY WORK. WORK THAT PROCEEDS WITHOUT THIS APPROVAL SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

GENERAL DEMOLITION NOTES

1. ELECTRICAL CONTRACTOR SHALL TRACE, TAG OUT AND LABEL ALL CIRCUITS FROM AREA OF DEMOLITION.
2. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER TO ACCOMMODATE BOTH REMOVAL OF EXISTING AND INSTALLATION OF NEW WORK.
3. WHERE PORTIONS OF EXISTING BRANCH CIRCUITS ARE REMOVED, MAINTAIN THE CONTINUITY OF CIRCUITRY TO REMAINING DEVICES.
4. RELOCATE AND/OR RE-ROUTE ANY ELECTRICAL CONDUITS, JUNCTION BOXES AND DEVICES REMAINING ABOVE CEILING IN THE WAY OF NEW WORK. COORDINATE LOCATIONS IN THE FIELD WITH THE BUILDING ENGINEER AFTER THE COMPLETION OF DEMOLITION AND BEFORE NEW WORK STARTS.
5. OFFSET AND/OR RELOCATE ALL EXISTING UTILITIES INCLUDING ALL PLUMBING, REHEAT COILS, HYDRO PNEUMATIC SYSTEMS, SPRINKLER PIPING, DEVICES, MAKE A CAPPED PNEUMATIC TUBING, HANGERS & SUPPORTS AND ALL APPURTENANCES AND PROVIDE ALL TEMPORARY UTILITIES AS REQUIRED TO ACCOMMODATE THE NEW WORK.
6. POWER TO BE MAINTAINED DURING RENOVATIONS.
7. COORDINATE ALL POWER OUTAGES WITH OWNER. CONTRACTORS SHALL PROVIDE A MINIMUM OF TWO WEEKS NOTICE.

DEMOLITION NOTES:

1. REMOVE EXISTING GENERATOR, MANUAL CONDUIT E10 BACK TO SOURCE, RETURN GENERATOR TO OWNER.
2. REMOVE EXISTING PANEL, RETAIN CAP AND MAKE SAFE ALL CIRCUITS FOR CONNECTION TO NEW PANEL.
3. EXISTING SERVICE SHALL BE REMOVED. ALL SERVICE WORK SHALL BE COORDINATED AND PERFORMED IN ACCORDANCE WITH PSEG GUIDELINES.
4. EXISTING 100A, 3Φ, 4W, 208/120V SERVICE SHALL BE INCREASED TO 200A. COORDINATE AND PERFORM ALL WORK WITH PSEG.
5. REMOVE EXISTING CONDUIT AND PATCH WALL TO MAKE WATER TIGHT.
6. CONTRACTOR SHALL COORDINATE WITH UTILITY, FILL OUT ALL APPLICATIONS FOR UPGRADING OF THE EXISTING 208 SERVICE TO 200A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL PSEG RULES AND GUIDELINES.

SHEET NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL A 80 KW / 82.5 KVA, 208 VOLT 3 PHASE 4W WIRE, FACTORY-ASSEMBLED AND TESTED, PACKAGED NATURAL GAS EXTERNAL GENERATOR SET IN AN LEVEL 2 ULTRAQUIET - STEEL ENCLOSURE WITH UNIT MOUNTED EXHAUST SYSTEM AND 200 GGER - LEVEL 1 EXPANDED DIGITAL GENERATOR MOUNTED CONTROL PANEL MOUNTED ON A 4" HOUSEKEEPING PAD. MEET CURRENT ENERGY MODEL REQUIREMENTS OR APPROVED EQUAL. CONTACT MED ENERGY ENERGY MANE STORMGROUP AT 201-580-3000 OR WATERMAN@MEDENERGY.COM
2. FURNISH AND INSTALL NEW 200A MLO 3R, 4W PANEL IN NEMA 3R ENCLOSURE. RE-CONNECT EXISTING CIRCUITS REMAINED FROM DEMOLITION PHASE.
3. CONTRACTOR SHALL FURNISH AND INSTALL (1) NEW BULLETIN 300 CATALOG NO. 300DNR00SXF AUTOMATIC TRANSFER SWITCH, 3 PHASE-POLES WITH SWITCHED NEUTRAL, 200 AMPERES, APPROVED TO OPERATE ON A NORMAL AND EMERGENCY VOLTAGE OF 208V/120V, 3 PHASE, 4 WIRE, 60 HERTZ AND TO INCLUDE STANDARD ACCESSORY GROUP 1 CONTROLLER, PLUS OPTIONAL ACCESSORIES 118C & 148A/148N. UNIT FURNISHED IN A NEMA 3R ENCLOSURE.
4. FINAL LOCATION SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER AND THE OWNER.
5. CONTRACTOR SHALL COORDINATE WITH UTILITY, FILL OUT ALL APPLICATIONS FOR THE UPGRADE OF THE EXISTING 208 SERVICE TO 200A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL PSEG RULES AND GUIDELINES.
6. GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH 4/E40.
7. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER PRIOR TO SUBMITTING BID.

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USE DIMENSIONS ONLY

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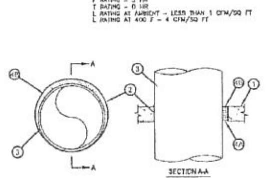
1	ISSUE FOR CONSTRUCTION		11/22/2013

EI Associates
ARCHITECTS ENGINEERS PLANNERS
ARCHITECTS & ENGINEERS

SCALE: AS NOTED
PROJECT: CITY OF HOBOKEN
INSTALLATION OF EMERGENCY BACK-UP GENERATOR
FIRE STATION
201 JEFFERSON STREET
HOBOKEN NEW JERSEY
EIA DRAWING NO. E10
DRAWN BY: MR
REVIEWED BY: RDM
CHECKED BY: CBK
APPROVED BY: MR
PROJECT MANAGER: RM
TITLE: ELECTRICAL NEW WORK AND DEMOLITION PLANS
CLIENT DWG. NO. - - - - - -
EIA PROJECT NO. 0374.00

SYSTEM NO. C-AJ-1239

F RATING – 3 HR
T RATING – 0 HR
L RATING AT AMBIENT – LESS THAN 1 CFM/SQ FT
L RATING AT 400 F – 4 CFM/SQ FT



1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 32 IN.

2. METALLIC SLEEVE — (OPTIONAL) NOM 32 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES OR EXTENDING A MAX OF 3 IN. ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL.

2A. SHEET METAL SLEEVE — (OPTIONAL) MAX 6 IN. DIAM, MIN 28 GA GALV STEEL PROVIDED WITH A 28 GA GALV STEEL SQUARE FLANGE SPOT WELDED TO THE SLEEVE AT APPROX MID-HEIGHT, OR FLUSH WITH BOTTOM OF SLEEVE IN FLOORS, AND SIZED TO BE A MIN OF 2 IN. LARGER THAN THE SLEEVE DIAM. THE SLEEVE IS TO BE CAST IN PLACE AND MAY EXTEND A MAX OF 4 IN. BELOW THE BOTTOM OF THE DECK AND A MAX OF 1 IN. ABOVE THE TOP SURFACE OF THE CONCRETE FLOOR.

2B. SHEET METAL SLEEVE — (OPTIONAL) — MAX 12 IN. DIAM, MIN 24 GA GALV STEEL PROVIDED WITH A 24 GA GALV STEEL SQUARE FLANGE SPOT WELDED TO THE SLEEVE AT APPROX MID-HEIGHT, OR FLUSH WITH BOTTOM OF SLEEVE IN FLOORS, AND SIZED TO BE A MIN OF 2 IN. LARGER THAN THE SLEEVE DIAM. THE SLEEVE IS TO BE CAST IN PLACE AND MAY EXTEND A MAX OF 4 IN. BELOW THE BOTTOM OF THE DECK AND A MAX OF 1 IN. ABOVE THE TOP SURFACE OF THE CONCRETE FLOOR.

3. THROUGH-PENETRANT — ONE METALLIC PIPE, TUBE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-7/8 IN. PENETRANT MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PENETRANTS MAY BE USED:

A. STEEL PIPE — NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE — NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C. COPPER PIPE — NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

D. COPPER TUBING — NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. CONDUIT — NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT.

F. CONDUIT — NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).

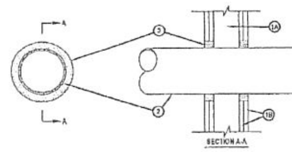
4. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL — MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR SLEEVE OR FROM BOTH SURFACES OF WALL OR SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR SLEEVE OR WITH BOTH SURFACES OF WALL OR SLEEVE. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PENETRANT AND CONCRETE OR SLEEVE, A MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE OR SLEEVE/ PIPE PENETRANT INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE SEALANT
*BEARING THE UL CLASSIFICATION MARK

SYSTEM NO. W-L-1054

F RATINGS – 1 AND 2 HR (SEE ITEMS 1 AND 3)
T RATING – 0 HR
L RATING AT AMBIENT – LESS THAN 1 CFM/SQ FT
L RATING AT 400 F – 4 CFM/SQ FT



1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC. WHEN STEEL STUDS ARE USED AND THE DIAM OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. WIDER AND 4 TO 6 IN. HIGHER THAN THE DIAM OF THE PENETRATING ITEM SUCH THAT, WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.

B. GYPSUM BOARD* — 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 32-1/4 IN. FOR STEEL STUD WALLS. MAX DIAM OF OPENING IS 14-1/2 IN. FOR WOOD STUD WALLS. THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.

2. THROUGH-PENETRANTS — ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 2-1/4 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE — NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE — NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C. CONDUIT — NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 6 IN. DIAM STEEL CONDUIT.

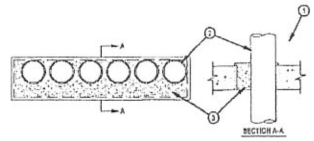
D. COPPER TUBING — NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. COPPER PIPE — NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF WALL.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT
*BEARING THE UL CLASSIFICATION MARK

SYSTEM NO. C-AJ-1368

F RATING = 2-HR
T RATING = 0-HR



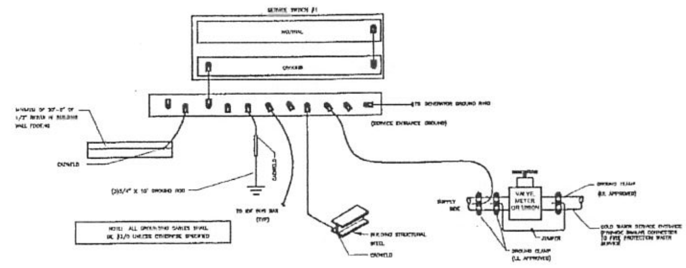
1. FLOOR OR WALL ASSEMBLY MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX AREA OF OPENING 224 SQ IN. WITH MAX DIMENSION OF 32 IN.
SEE CONCRETE BLOCKS (CAZT) IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. CONDUIT ONE OR MORE NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE SPACE BETWEEN CONDUITS OR TUBES SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1/2 IN. THE ANNULAR SPACE BETWEEN THE CONDUIT OR TUBE AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2-3/4 IN. CONDUIT OR TUBE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
CONDUIT -- NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC CONDUIT OR STEEL CONDUIT.

3. FILL, VOID OR CAVITY MATERIAL* – FOAM MIN 5 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, EXTENDING 1/2 IN. ABOVE THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF WALL AND OVERLAPPING THE CONCRETE 1/2 IN. ON ALL SIDES OF THE OPENING.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP 620 FIRE FOAM
*BEARING THE UL CLASSIFICATION MARK

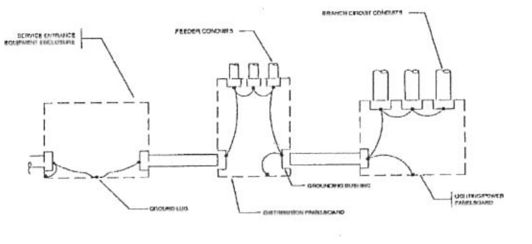
UL WALL AND FLOOR PENETRATION DETAIL (1/E40)

NO SCALE



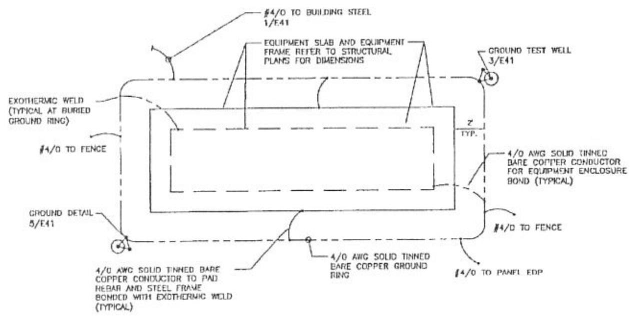
GROUNDING ELECTRODE SYSTEM (2/E40)

NO SCALE



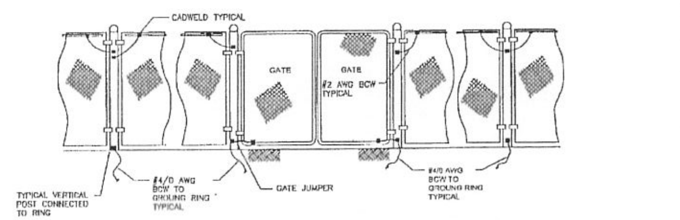
TYPICAL CONDUIT GROUNDING DETAIL (3/E40)

NO SCALE



TYPICAL GROUND RING AT ELECTRICAL EQUIPMENT (4/E40)

NO SCALE



1. VERTICAL POSTS SHALL BE BONDED TO THE RING AT EACH CORNER AND AT EACH GATE POST. AS A MINIMUM ONE VERTICAL POST SHALL BE BONDED TO THE GROUND RING IN EVERY 100 FOOT STRAIGHT RUN OF FENCE.
2. HORIZONTAL POLES SHALL BE BONDED TO EACH OTHER.
3. BOND EACH HORIZONTAL POLE / BRACE TO EACH OTHER AND TO EACH VERTICAL POST THAT IS BONDED TO THE EXTERIOR GROUND RING
4. THE #2 AWG, BCW, FROM THE GROUND RING SHALL BE CADWELDED TO THE POST ABOVE GRADE
5. BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING
6. GATE JUMPER SHALL BE #4/0 AWG WELDING CABLE OR FLEXIBLE COPPER BRAID BURNDY TYPE B WITH SLEEVES ON EACH END DESIGNED FOR EXOTHERMIC WELDING.
7. GATE JUMPER SHALL BE INSTALLED SO THAT IT WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN GATE IS FULLY OPEN IN EITHER DIRECTION.

FENCE GROUNDING DETAILS (5/E40)

NO SCALE

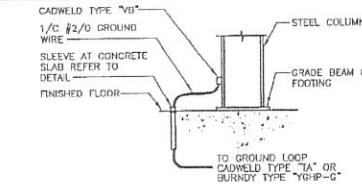
DO NOT SCALE DRAWING
USE DIMENSIONS ONLY

REV	REVISION DESCRIPTION	BY	DATE

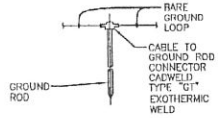
EI Associates
ARCHITECTS & ENGINEERS, PA

SCALE AS NOTED	PROJECT CITY OF HOBOKEN INSTALLATION OF EMERGENCY BACK-UP GENERATOR FIRE STATION 201 JEFFERSON STREET HOBOKEN NEW JERSEY		EA DRAWING NO. E40
DRAWN BY:			
DESIGNED BY:			
CHECKED BY:			CLIENT DWG. NO. - - - - -
APPROVED BY:	TITLE ELECTRICAL DETAILS SHEET 1 OF 2		
PROJECT MANAGER			EA PROJECT NO. E0/493.00

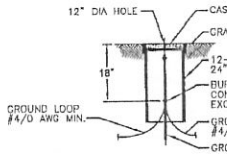
XX



GROUNDING OF BUILDING STEEL COLUMN (1/E41)
NO SCALE

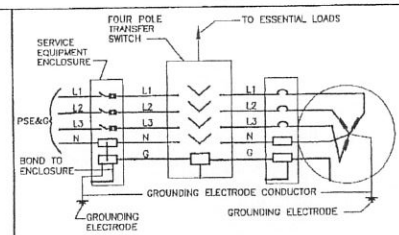


CABLE TO GROUND ROD CONNECTION (2/E41)
NO SCALE

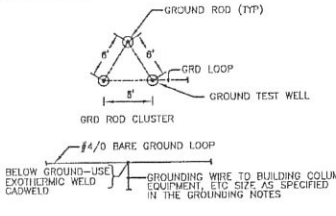


GROUND TEST WELL (3/E41)
NO SCALE

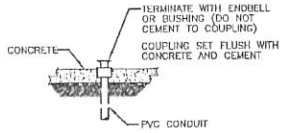
NOTE:
1. LOCATE GROUND WELL CLEAR OF VEHICLE TRAFFIC



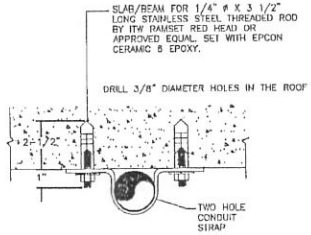
GENERATOR GROUNDING (TYP) (4/E41)
NO SCALE



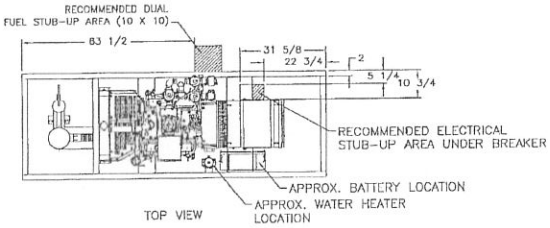
GROUND LOOP (5/E41)
NO SCALE



SLEEVE AT SLAB (6/E41)
NO SCALE

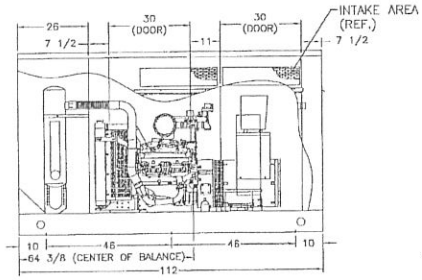


CABLE MOUNTING FOR HORIZONTAL SURFACES (7/E41)
NO SCALE

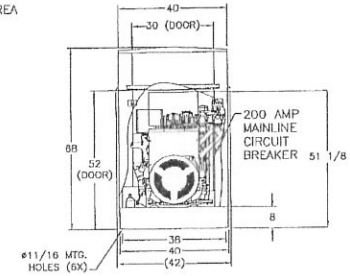


TOP VIEW

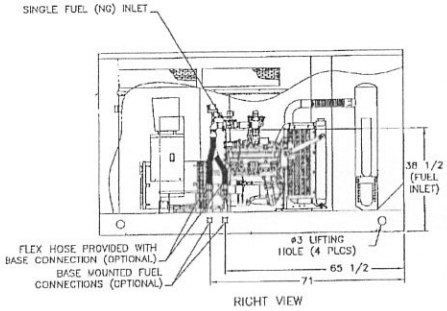
NOTES:
1. HOUSING NOT SHOWN IN TOP VIEW
2. FUEL INLET CONNECTION: 1.50 NPT
3. APPROX. UNIT WEIGHT
   DRY: 2,365LBS WET: 2,445LBS
4. UL-2200 APPROVED
5. BASIS OF DESIGN DETAIL
6. LEVEL 3 HOUSING - MAXIMUM SOUND ATTENUATION



LEFT VIEW



FRONT VIEW



RIGHT VIEW

50KW GENERATOR DETAIL (8/E41)
NO SCALE

DO NOT SCALE DRAWING USE DIMENSIONS ONLY

REV	REVISION DESCRIPTION	BY	DATE

EI Associates
ARCHITECTS & ENGINEERS, PA

SCALE: AS NOTED
DRAWN BY:
DESIGNED BY:
CHECKED BY:
APPROVED BY:
PROJECT MANAGER:

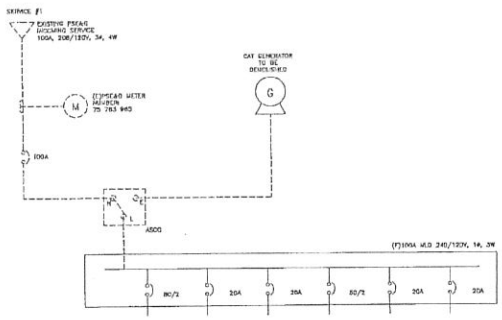
PROJECT: CITY OF HOBOKEN
INSTALLATION OF EMERGENCY BACK-UP GENERATOR
FIRE STATION
301 JEFFERSON STREET
HOBOKEN NEW JERSEY

TITLE: ELECTRICAL DETAILS
SHEET 2 OF 2

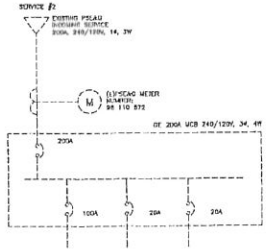
EA DRAWING NO.
E41

CLIENT DWG. NO.

EA PROJECT NO.
E07-802.00



ELECTRICAL DEMOLITION SINGLE LINE (1/E50)
NO SCALE



GENERAL ELECTRICAL NOTES

1. ALL NEW CONDUIT SHALL BE LIQUID TIGHT THREADED RIGID GALVANIZED STEEL UNLESS OTHERWISE NOTED.
2. ALL NEW PANELS AND AUTOMATIC TRANSFER SWITCHES SHALL BE IN NEMA 3R ENCLOSURES UNLESS OTHERWISE NOTED.
3. PANEL SCHEDULE SHOWN FOR INFORMATIONAL PURPOSES ONLY. NO NEW LOADS SHALL BE ADDED AS A PART OF THIS CONTRACT.
4. ALL WIRES SHALL BE COPPER.
5. CONTRACTOR SHALL COORDINATE ALL UTILITY MODIFICATIONS WITH PSE&G AND OBTAIN ALL APPROVALS PRIOR TO THE START OF ANY WORK.
6. THE CONTRACTOR SHALL SUBMIT A FULL SHORT-CIRCUIT AND COORDINATION STUDY TO ENSURE EMERGENCY SYSTEM COORDINATION IN ACCORDANCE WITH NEC 700.27. OVERCURRENT PROTECTION DEVICES SHALL BE SIMILAR TO THE MANUFACTURER'S EQUAL. INSTALLATION OF OVERCURRENT PROTECTION DEVICES WITHOUT SUBMISSION OF STUDY TO ENGINEER FOR REVIEW AND APPROVAL MAY RESULT IN CONTRACTOR REPLACING OVERCURRENT PROTECTION DEVICES AT THE CONTRACTORS EXPENSE.

PANEL:	LCP-PSE&G	SYM. 208 VOLTS	1 PHASE	3 WIRE	MAINBAR 250 AMPS
LOCATION	GARAGE	MOUNTING	SURFACE	FLOOR	LOCATION 2ND FLOOR 3 F
RATING	225/100AF	BUS	COPPER	ALARMS	MAIN/AL 30PA 40P MAIN
MOUNTING	RECEPTACLES ON BOXES	CONDUCTOR		TVSS/SPD/LEDS	20MA LED DISPLAY
PANEL NOTE	RECEPTACLES ON BOXES	REF. DWG NO.		* SELF CONTAINED	FEED TOP BOTTOM

CKT NO	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (VA) A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO
1	1902	RELOCATED LOAD	0	0	0	0	RELOCATED LOAD	1902	2
3			0	0	0	0			4
5	1921	RELOCATED LOAD	0	0	0	0	SPACE	1921	6
7	1921	RELOCATED LOAD	0	0	0	0	RELOCATED LOAD	1921	8
9	1902	RELOCATED LOAD	0	0	0	0	RELOCATED LOAD	1902	10
11			0	0	0	0			12
13	2201	RELOCATED LOAD	0	0	0	0	RELOCATED LOAD	2201	14
15	2201	RELOCATED LOAD	0	0	0	0			16
17	2201	RELOCATED LOAD	0	0	0	0	RELOCATED LOAD	2201	18
19	2201	RELOCATED LOAD	0	0	0	0	RELOCATED LOAD	2201	20
21	1501	RELOCATED LOAD	0	0	0	0	RELOCATED LOAD	2201	22
23	1501	RELOCATED LOAD	0	0	0	0	SPACE	2201	24
25	2001	RELOCATED LOAD	0	0	0	0	RELOCATED LOAD	2201	26
27			0	0	0	0	RELOCATED LOAD	2201	28
29	2001	AC	0	0	0	0	RELOCATED LOAD	2201	30
31			0	0	0	0			32
33	1001	TRAILER	0	0	0	0	BATTERY CHARGER	2201	34
35			0	0	0	0	BLOCK HEATER	2201	36
37	1001	BOB FANS	0	0	0	0	LAUNDRY/VEHICLE	2201	38
39			0	0	0	0	SPACE	2201	40

MULTI FACTOR

TOTAL LTS	0	1.25	0
TOTAL MTR	0	1.00	0
TOTAL MISC	0	Per NEC	0
TOTAL HEAT	0	1.00	0
TOTAL VAR	0	1.00	0

TOTAL NO. PHASE: A 0 B 0 C 0

SPARE FACTOR

TOTAL CONNECTED 0 X 1.25
TOTAL LOAD 0 VA 0 AMPS

BOND GROUND TO BUILDING STEEL AND CONTROL ARM

KEY NOTES:

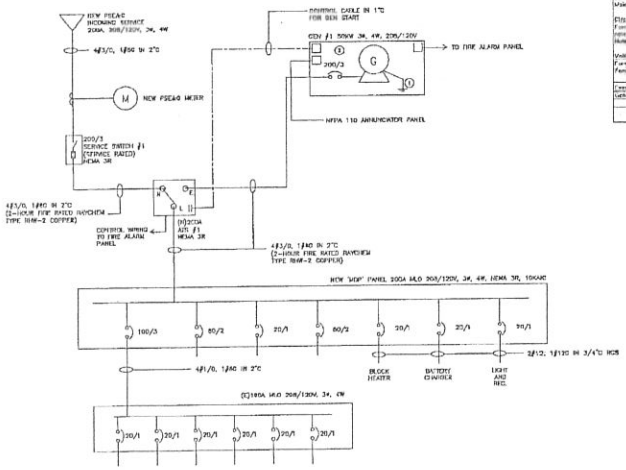
1. GROUND TO BE CONNECTED TO NEW GROUND RODS AROUND GENERATOR.
2. THE CONTRACTOR SHALL SUBMIT A FULL SHORT-CIRCUIT AND COORDINATION STUDY TO ENSURE EMERGENCY SYSTEM COORDINATION IN ACCORDANCE WITH NFPA 700.27. OVERCURRENT PROTECTION DEVICES SHALL BE SIMILAR TO THE MANUFACTURER'S EQUAL. INSTALLATION OF OVERCURRENT PROTECTION DEVICES WITHOUT SUBMISSION OF STUDY TO ENGINEER FOR REVIEW AND APPROVAL MAY RESULT IN CONTRACTOR REPLACING OVERCURRENT PROTECTION DEVICES AT THE CONTRACTORS EXPENSE.
3. CONTRACTOR SHALL FURNISH AND INSTALL (1) 20A, 1P CIRCUITS TO NEAREST 120V PANEL FOR BLOCK HEATER, BATTERY CHARGER AND LIGHT RECEPTACLE. WIRE SIZE: #12, 1P/2C, IN 3/4"

Voltage Drop Calculations — 10/23/2013
201 Jefferson St., Hoboken, NJ — Designed by: E. Rivera
Wire Feeder Run — Checked by: E. Kaminski

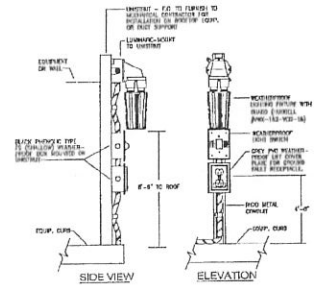
Circuit Impedance
Formula: (1.73 * (Length/1000) * (Resistance/1000)) Cond. Per Phase = Ω/Φ
(use resistance values (Ohms/KFT) from NEC Chapter 9 Table 8 (Not Conduit)
Note: Voltage Drop on Feeder just not exceed 2% in accordance with NEC 2011

Voltage Drop
Formula: Circuit Ohms * Circuit Amps = Voltage Drop (VD)
Formula: Voltage Drop (VD) / Voltage (L-L VLL 208 = 208) =

Feeder	Length(feet)	Conductor	Qty	Conduit	Wire(KFT)	Ohms(KFT)	Ohms(OHMS)	Circuit Amps	Voltage Drop	% L-N	% VD
GENERATOR TO ATS	40	3/0 AWG	4C	2-1/2"	1	0.097	0.0039	144	1.04	208	1.00 %



ELECTRICAL NEW WORK SINGLE LINE (2/E50)
NO SCALE



SIDE VIEW — ELEVATION

OUTDOOR EQUIPMENT LIGHT & RECEPTACLE DETAIL (3/E50)
NO SCALE

DO NOT SCALE DRAWING
USE DIMENSIONS ONLY

REV	REVISION DESCRIPTION	BY	DATE
1	ISSUE FOR CONSTRUCTION		11/23/2013

EI Associates
ARCHITECTS & ENGINEERS, PA
ARCHITECTURE ENGINEERING PLANNING

STATE: AS NOTED
DRAWN BY: JPS
DESIGNED BY: MPM
CHECKED BY: MAC
APPROVED BY: SEI
PROJECT MANAGER: MAC

PROJECT: CITY OF HOBOKEN
INSTALLATION OF EMERGENCY BACK-UP GENERATOR
FIRE STATION
201 JEFFERSON STREET
HOBOKEN NEW JERSEY

TITLE: ELECTRICAL SINGLE LINES

EA DRAWING NO. E50

CLIENT DWG. NO.

EA PROJECT NO. 2013-15.00

ELECTRICAL SPECIFICATIONS

1. GENERAL:

A. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE AND PART OF THIS CONTRACT.

B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THE WORK AND HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS, AND WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.

C. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE DISMANTLED BY THE MANUFACTURER IN ACCORDANCE WITH SUCH SUFFICIENT FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ACCERTAIN FROM BUILDING OWNER AND DESIGNER AT LEAST THREE (3) DAYS BEFORE EQUIPMENT MUST BE MOVED THROUGH OCCUPIED AREAS.

D. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING WHEN INDICATED IS SHOWN FOR GENERAL INFORMATION ONLY. DOES NOT REFLECT ALL OFFSETS, DROPS AND RISES OF WORK. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF CONDUITS TO AVOID OBSTRUCTIONS, COORDINATION WITH EXISTING BUILDING, INCLUDING THOSE OF OTHER TRADES, BE REVISED, MAINTAIN HEADROOM AND SPACE CONDITIONS.

E. INSTALL WORK TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. WHEN DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMMODATE THIS, BUT CHANGES SHALL BE MADE ONLY WITH WRITTEN APPROVAL.

F. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. NOT ALL EXISTING DISCONNECTS ARE SHOWN. COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES AND CHANGES IN MARKED UP THE WORK PROPOSAL.

G. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF EXISTING SERVICES SHALL BE PERFORMED AS NO INTERFERENCE CAUSED. AT THOSE NOT TO INTERFERE WITH BUSINESS, SCHOOL, HOSPITAL AND FACILITIES AND ONLY WITH WRITTEN CONSENT OF OWNER. SCHOOL AND FACILITIES SYSTEMS SHALL NOT BE INTERRUPTED. THE MAXIMUM CONTINUOUS OPERATION OF EXISTING FACILITIES, AS REQUIRED, MAY NECESSARY TEMPORARY CONNECTIONS REMOVED NEW AND EXISTING WORK. DO EXISTING WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. REPAIRS OF EXISTING DAMAGED WORK TO ORIGINAL CONDITION INCLUDING MAINTENANCE OF WORKING CONTINUITY AS REQUIRED.

H. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK.

I. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK. ALL EXISTING WORK, EQUIPMENT, MATERIALS, AND OTHER ITEMS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO ACCEPTABLE EXTENT ON THE INTERIOR OR ON THE EXTERIOR.

J. SEAL OPENINGS THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE SYSTEMS. ALL THIRD HOUR FIRE RATED SYSTEMS AND FIRE RATED PIPE AND BRACE PARTITIONS AND/OR FLOORS SHALL BE COMPLETELY SEALED USING MATERIALS AND METHODS DESCRIBED IN MANUFACTURER'S OR ASSOCIATION'S OPERATIONS DIRECTIONS.

K. ALL EXISTING MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF THE ELECTRIC EQUIPMENT AND APPARATUS REQUIRED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS DIRECTED BY AND RELOCATED ON THE DRAWINGS. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

L. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS, WHICH AS DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK DURING OVERTIME HOURS AND FREE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.

M. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS OF THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.

N. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.

O. SUBMISSION OF A PROPOSAL SHALL BE CONSIDERED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, HOSPITALITY, ETC. WHICH AFFECT THE WORK AND THE ACCESS TO SUCH PARTS, AND THAT THE BIDDER OR THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND OBSTACLES WHICH MAY AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AN EVIDENCE THAT SUCH INSPECTION OF THE EQUIPMENT OR MATERIAL REQUIRED HAS BEEN MADE. NOT ALL EXISTING EQUIPMENT OR MATERIAL REQUIRED MAY BE INCLUDED, OR IN EXISTING BUILDING WHICH COULD NOT BE DISCOVERED DURING BIDDING AND EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DIMENSIONS (SIZES, CLEARANCES, ETC) AND CONDITIONS.

P. REMARKS: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.

Q. ALL WORK SHALL BE DONE WHICH AS DIRECTED BY THE OWNER AND IN A MANNER SATISFACTORY TO THE BUILDING OWNER. WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO OTHER BUILDING OCCUPANTS.

R. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED THE EQUIPMENT, REPAIRED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT MEETS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS PURCHASED ALL THE NECESSARY CERTIFICATES OF INSPECTION AND APPROVAL.

2. SCOPE OF WORK:

A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, EQUIPMENT AND TYPE NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE BUILDING, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

B. ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE WITH PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, ADDENDED, SUPPLEMENTED OR SPECIFIED HEREIN.

C. THE CONTRACTOR SHALL FURNISH A WRITTEN DRAWINGS TO REPLACE OR SUPPLY PROMPTLY AND ADDING RESPONSIBILITY FOR ALL EQUIPMENT INCURRED, FOR ANY DAMAGE OR DELAY DUE TO ANY DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR WILL ADVISE PERFORMANCE OF ALL EXPENSES OF ANY PARTS OF THE EQUIPMENT OR SUPPLIES BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICH MAY BE DAMAGED OR BROKEN. THE WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL ALSO PROVIDE THAT WHERE DEFECTIVE WORK, THE CONTRACTOR WILL ARRANGE REPRESENTATIVE FOR ALL EXPENSES OF REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS OF EQUIPMENT SUPPLIED BY THE CONTRACTOR.

D. THE CONTRACTOR SHALL GIVE ADVERTENT NOTICE, PER DRAWINGS AND SPECIFICATIONS WITH ALL DEPARTMENTS HAVING JURISDICTIONAL ONE DEPARTMENT OR LICENSED NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR THE SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS HEREIN. THEY APPLY TO SUBCONTRACTORS.

3. SHOP DRAWINGS:

A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL WORK AND EVERYTHING EQUIPMENT, INDICATING CAPACITY, DIMENSIONS, AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.

B. REPEATE OR EACH SHOP DRAWINGS SUBMITTED:

1) PRODUCT NAME AND LOCATION
2) NAME OF ARCHITECT AND ENGINEER
3) ITEM IDENTIFICATION
4) APPROVAL STAMP OF PRIME CONTRACTOR.

C. SUBMISSIONS:

1) SUBMISSIONS 11 IN X 17 IN, OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES, OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL RETAIN ONE THE ORIGINAL AND ONE COPY (OR) COPIES WHICH ARE SPECIAL IN REFERENCE TO THE PROJECT. ALL CATALOG DATA SHALL BE COMPLETELY MARKED UP AND COMPREHENSIVE.

2) SUBMISSIONS LARGER THAN 11 IN X 17 IN: SUBMIT TWO PRINTS AND ONE PAPER REPRO TO THE ARCHITECT. THE ARCHITECT WILL RETAIN ONE PRINT AND THE PAPER REPRO TO THE ENGINEER.

D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

1) SWITCHGEAR/FUSES
2) EMERGENCY GENERATOR
3) RACEWAYS
4) WIRE AND CABLE
5) WALL SWITCHES AND DIMMERS
6) RECEPTACLES
7) LIGHTING FIXTURES AND LAMP SHADES
8) DIGITAL SYSTEM
9) TEST PROCEDURES AND REPORTS.
10) GENERATORS
11) ATS SWITCHES
12) BUSHY CIRCUIT STUFF
13) GROUNDING AND BONDING
14) METALLATE DATA INSTALLERS
15) AND FLASH LABELS FOR APPROVAL
16) ARRAGE DEMONSTRATION PANELS, EQUIPMENT AND SYNTHETIC

4. AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS:

A. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.

B. THESE INSTRUCTIONS SHALL BE TYPED ON 8 1/2 IN X 11 IN, PRINTED AND BOUND IN THREE RING BINDERS WITH TAB AT EACH SECTION. CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER.

C. THE INSTRUCTION BOOKLET SHALL TITLE THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PRINCIPAL ARCHITECT AND ENGINEERS.

D. REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE AS INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.

5. GENERAL PROVISIONS FOR ELECTRICAL WORK:

A. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL", "SHALL BE", "FURNISH", "PROVIDE", "TO", "AND" AND "ALL" HAVE BEEN OMITTED FOR BRIEVITY.

6. DEFINITIONS:

1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT OR COMPLETE AND READY FOR SAFE AND BRIEF OPERATION UNLESS OTHERWISE SPECIFICALLY OTHERWISE NOTED.
2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
3) "FURNISH OR SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER OWNER'S PROPERTY OR SITE.
4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.
5) "RACEWAY": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED BITS.
6) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS, ON TOP OF CEILINGS, IN TRENCHES, BELOW GRADE, BELOW GROUND SLABS.
7) "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
8) "EQUAL" OR "EQUALS": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.

7. TEMPORARY LIGHT AND POWER PROVIDED TEMPORARY LIGHT AND POWER SYSTEMS AT ALL WORKER'S REQUIRED BASE METHOD THE CONTRIBUTION AREAS FOR THE REQUIREMENT OF ALL TRADES AS NEEDED DURING. EXISTING SYSTEMS TO NEW CONNECTIONS AS DOES AN APPROPRIATE POWER. MAINTAIN SYSTEM FLOWING NUMBERS OF ALL TRADES. ONLY OF ENERGY WILL BE PAID FOR BY OWNER. PROVIDE ALL REQUIRED MAINTENANCE, INCLUDING LAMPS AND BOOSTER.

8. QUALITY ASSURANCE:

1) QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS. FREE FROM DEFECTS AND LISTED BY INDEPENDENT LABORATORIES INC. OR OTHER ACCEPTABLY APPROVED TESTING AGENCY AND BEARING THEIR LABEL. MATERIALS AND EQUIPMENT OR SIMILAR APPROVED TYPES SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.
2) GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AS DEFINED IN PARAGRAPH 2.2.
3) SUBMITTAL CHARACTERISTICS:
   a) SERVICE: 120/208 VOLT, 3 PHASE, 4 WIRE, 60 HERTZ WITH GROUNDED NEUTRAL.
   b) DISTRIBUTION: 120/208 VOLT, 3 PHASE, 4 WIRE, 60 HERTZ WITH GROUNDED NEUTRAL.
4) HEIGHTS OF OUTLETS:
   - FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS FOR:
     - RECEPTACLES AND TELEPHONE: 1 FT-0 IN.
     - WALL SWITCHES: 4 FT-0 IN.
     - MOTOR CONTROLLERS: 4 FT-0 IN.
   b) EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, OR WHEREVER OR BREAK IN WALL SURFACE INVOLVATION OF CODE, OR AS NOTED ON DRAWINGS.

9. PROVIDE DELIVERY, STORAGE AND HANDLING:

1) MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CRATED SECTIONS OR SPIN TO PREVENT PARTING THROUGH AVAILABLE SPACES.
2) ACCESSIBILITY FOR OPERATION AND REPAIR: WHERE DEVIATIONS MAKE NECESSARY, CHANGES OF MANUFACTURE OR INCLUDING EXTRA COSTS ARE NOT PERMITTED. THROUGH REVIEW. GROUP EMERGENCY ELECTRICAL EQUIPMENT PROVIDING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.

10. MATERIALS:

1) MASTERLATE: PROVIDE BLACK LAMINATE SHALL MEET 3M IN WHITE LETTERING, PASSIVATED TYPE EPOXY PAINT FOR EACH (DISCONNECT SWITCHES, CONTROL CIRCUIT BREAKER, PANEL, CABINET ENCLOSURES, ENCLOSURE, MOTOR CONTROLLER AND THE LIKE. MASTERLATE SHALL DESCRIBE THE NAME AND NUMBER OF EACH COMPONENT.
2) DRIVE TAKE: TAG EACH CONNECTOR PASSING THROUGH BRACE OR PLACKER WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT.
3) BRIDTIE AND SUPPORTS:
   a) BRIDTIE STEEL, SLOTTED TYPE, FACTORY PAINTED:
      - SINGLE ROW: SIMILAR TO BRIDNELL PIG. 291.
      - MULTIPLE ROW: SIMILAR TO FIRE AND MARSH SERIES 9000 WITH END CAPS AND ACCESSORIES.
      - CLOP FOR NARROW BUILDINGS PURPOSES.
      - MAXIMUM LOADING 75 PERCENT OF RATING.
   b) SUPPORTS FROM BRIDTIE: CONSTRUCTION OF CONCRETE, BEAM CLAMPS, STEEL ATTACHMENTS AS CONSISTS (ALL ONLY) CONTROLLER BRACKETS OR OTHER MEANS, SIMILAR TO FIRE AND MARSH.
   c) GROUTED LINES AND REPAIRED: TRAPEZE HANGERS OR SOLIDED ANGLES OR CHANNELS.
4) WHERE BRIDTIND CONSTRUCTION IS INADEQUATE: PROVIDE ADDITIONAL FRAMING. SUBMIT FOR REVIEW.

11. PAINT SHALL BE THE BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. EXTERIOR SHALL BE AS SELECTED BY ARCHITECT OR ENGINEER. UNLESS OTHERWISE NOTED PRIMER ON METAL AND PAINT WORK AFTER FABRICATION, OTHER THAN PRE-GALVANIZED OR OTHER IN THE SHOP PRIMER FOR OUTLET BOXES, JUNCTION BOXES, CONDUIT, WATER TOUR, BRIDTIE AND SUPPORTS. ZINC PRIMER FINISH MUST BE TO MATCH MANUFACTURER'S SHALL BE USED FOR BOUNDED SURFACE OF STEEL EQUIPMENT AND BRIDTIE. A PREFABRICATED ZINC BARRE PRIME COAT SHALL BE USED FOR BRIDTIE OR EQUIPMENT.

12. WORK AND CLEAN WORK PRIOR TO CONCEALING, PAINTING AND ACCEPTANCE. PAINTED EXTERIOR WORK BOXED OR DAMAGED CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM BUILDING AND OUTSIDE OF MATERIAL AND EQUIPMENT.

13. FINAL ELECTRICAL AND METERING CONNECTIONS OF ALL SWITCHES, RECEPTACLES AND OTHER EQUIPMENT AND DEVICES.

14. PROVIDE ACCESS DOORS WHEN CONCEALED ELECTRICAL EQUIPMENT REQUIRES ACCESS. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.

15. CUTTING AND PATCHING:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF THE EXISTING AND NEW CONSTRUCTION WORK, WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PARTS USED SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.

B. CORE BORING OF CONCRETE FLOOR AND/OR WALLS IF REQUIRED, SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

16. COORDINATION:

A. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EQUIPMENT WITH ARCHITECTURAL DRAWINGS, IN CONNECTION WITH OTHER TRADES, WITH ALL OTHER TRADES OR DETAILS OF EQUIPMENT PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS BEFORE PROCEEDING WITH ANY WORK. ANY DEVIATIONS FROM THE DRAWINGS, WHICH CAUSES, AND THE LAST AND CHANGES AND PROCUREMENT INCLUDING PARTS FAILURE TO DO SO WILL BE THE EXPENSES TO THE CONTRACTOR.

17. EQUIPMENT FURNISHED BY OTHERS:

A. THE CONTRACTOR SHALL PURCHASE AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, INCLUDING CONNECTIONS, CONNECTIONS WITH ALL OTHER TRADES OR DETAILS FOR EQUIPMENT, THE THING THEREOF, AS UPON REVIEW, INCLUDED BUT IS NOT LIMITED TO, SWITCHGEAR AND INCLUDING CONDUIT, WIRE, JUNCTION BOXES, ELECTRICALS AND MAKING CONNECTIONS. CONTRACTOR SHALL OBTAIN ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER WIRING AND NECESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFORM TO APPROVED REQUIREMENTS OF THE EQUIPMENT.

18. LOW-VOLTAGE DISTRIBUTION EQUIPMENT:

A. PROVIDE COMPLETE EQUIPMENT INCLUDING: SWITCHES, FUSES, CIRCUIT BREAKERS, ETC.

B. ALL EQUIPMENT SHALL CONFORM TO NEMA, ANSI AND IEEE STANDARDS.

C. DISCONNECT SWITCHES SHALL BE RATED FOR RATED VOLTAGE SHALL BE AS REQUIRED. SWITCHES SHALL BE HEAVY DUTY, EXCEPT AS NOTED. SHALL BE HORSEPOWER RATED. MOTOR LOADING SHALL BE HORSEPOWER RATED. SHALL BE HORSEPOWER LOAD BREAK, UTILIZED WITH A MINIMUM CONTINUOUS CURRENT OF 30 AMP AT 600 VOLTS AND 30 AMP AT 240 VOLTS. SWITCHES SHALL BE SIMILAR TO LEVITON NO. 3P. THREE-POLE SWITCHES SHALL BE SIMILAR TO LEVITON NO. 3P. SINGLE POLE SWITCHES SHALL BE LOAD BREAK, QUICK-MAKE-QUICK-BREAK WITH ARC SUPPRESSOR. NO. 0 FUSE UP TO 100 AMP, AND FUSE SHALL BE SIMILAR TO LEVITON NO. 3P. ALL SWITCH ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED.

D. CIRCUIT BREAKERS: MOLDED CASE BREAKERS SHALL BE THERMAL MAGNETIC, QUICK-MAKE-QUICK-BREAK, TRIP FREE, MANUFACTURED WITH REPLACEABLE TRIP UNITS. MULTIPLE TYPE BREAKERS SHALL CONTAIN INDEPENDENT TRIP BAR. TERMINALS SHALL BE SUITABLE FOR COPPER CONDUCTORS. PROVIDE INTERCHANGEABLE TRIP FOR 225A FRAME AND ABOVE. PROVIDE AUTO-RESET DEVICES WHERE REQUIRED FOR BRANCH WIRING. OFFER AND CLOSE MOTOR OPERATION AND ALARM INDICATION. PROVIDE ARC-FAULT TYPE CIRCUIT BREAKERS AS REQUIRED ON DWELLING UNITS. ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED. FRAMES ARE RATED AS FOLLOWS, UNLESS OTHERWISE NOTED:

1) 125/240 VOLTS, 100 AMP FRAME: 10,000 AMPS MINIMUM.
2) 125/240 VOLTS, 225 AMP FRAME: 22,000 AMPS MINIMUM.

E. PROVIDE SHUNT TRIP AND UNDERVOLTAGE TRIP WHERE MINIMUM REQUIRED FOR HEATING AND AS UNITS SHALL BE INDICATED.

F. UPDATE DIRECTORIES ON EXISTING PANELBOARDS WHERE CIRCUITS ARE CHANGED.

G. TEETH: OPEN AND CLOSE LOAD BREAK SWITCHES DEVICES LIMITED LOAD.

19. RACEWAYS:

A. PROVIDE RACEWAYS COMPLETE WITH BOXES, FITTINGS AND ACCESSORIES, CONDUIT FOR THINGS NOTED REFERRED TO IN SPECIFICATIONS AND ON DRAWINGS ARE NOMINAL DIAMETERS. MINIMUM DIAMETER SHALL BE 3/4 IN. RACEWAYS SHALL RUN CONCEALED EXCEPT AS NOTED.

B. MATERIALS:

1) RACEWAYS:
   a) ELECTRICAL METALLIC TUBING (EMT): THIN WALL PIPE, GALVANIZED THROUGHOUT.
   b) FLEXIBLE METAL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED.
   c) LIQUIDTIGHT FLEXIBLE METAL CONDUIT: SUNLIGHT RESISTANT OUTER JACKET WITH A FLEXIBLE METAL CORE.
2) FITTINGS AND ACCESSORIES:
   a) ELECTRICAL METALLIC TUBING: COMPRESSION TYPE OR DOUBLE SET SCREWED GALVANIZED RIGID STEEL FITTINGS, 3 IN OR LARGER.
   b) FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT: WITH SMOOTH BORE THROUGHOUT.
   c) BUSHINGS: METALLIC INSULATED TYPE.
   d) LIQUIDTIGHT FLEXIBLE METAL CONDUIT: LIQUID-TIGHT WITH SEALING RING AND INSULATED THROAT.
3) BOXES:
   a) OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, PROVIDE GALVANIZED STEEL OUTLET BOXES, 4 IN. SQUARE, 1 IN. DEEP, SUITABLE FOR OCTAGON FOR FIXTURES. BOXES AROUND FOR THE SHALL BE 1-1/2 IN. DEEP, BOXES ARE FOUND ON BLACK WHERE 2 IN. DEEP. WHERE IN BOXES SHALL BE A MINIMUM OF 10 FT ON CENTER FOR METALLIC RACEWAY AND AS REQUIRED FOR NONMETALLIC RACEWAYS. BOXES SHALL BE 4 IN. DEEP, SUITABLE FOR OCTAGON AND CODE AND AS NOTED FOR OCTAGON. MOUNT SUPPORTS TO STRUCTURE WHENEVER WITH BOLTS ON CELLING MASONRY, LEVITATION, BOLTS OR OTHER MEANS. BOXES SHALL BE A MINIMUM OF 10 FT ON CENTER FOR METALLIC RACEWAY AND AS REQUIRED FOR NONMETALLIC RACEWAYS. BOXES SHALL BE 4 IN. DEEP, SUITABLE FOR OCTAGON AND CODE AND AS NOTED FOR OCTAGON. MOUNT SUPPORTS TO STRUCTURE WHENEVER WITH BOLTS ON CELLING MASONRY, LEVITATION, BOLTS OR OTHER MEANS. CLAMPS ON FRAMEWORK, WOOD SUPPORTS ON WOOD, AND FIRE BARRIER STRUCTURE METAL ONLY. NAIL FIXTURE ON WOOD PLUGS SHALL NOT BE PERMITTED. WHERE REQUIRED BY STRUCTURE, FURNISH THROUGH BOLTS AND REPLATES.

EXPOSED RACEWAYS SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS. PROVIDE CLEARANCE WITH PIPES, STEAM OR OTHER PIPING. MINIMUM 3 IN. SEPARATION FROM STEAM AND HOT WATER PIPES. EXCEPT 1 IN. FROM PIPE COVER AT CROSSINGS AND 18 IN. FOR PARALLEL RUNS. FOR RUNS CEILING OUTLETS, RUN IN HUNG CEILING AND CONNECT TO CEILING SUPPORT VERTICALLY ONLY. CHANNELS, IN MASONRY AND POURED CONCRETE, ONLY.

MAINTAIN UNINTERRUPTED CONTINUITY OF INTERMEDIATE METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FIXTURES AND MOTOR TERMINAL CONNECTIONS.

EMPTY RACEWAYS OVER 50 FT LONG PROVIDE PULL ON PULL WIRE, GALVANIZED ON NYLON ROPE.

EMT SHALL BE PERMITTED FOR BRANCH CIRCUITS, IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS AND ABOVE OR BELOW WALLS AND FURRED SPACES.

FLEXIBLE STEEL CONDUIT SHALL BE USED FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICAL FROM OUTLET BOX TO MOTORS, EQUIPMENT, ETC. PROVIDE MINIMUM 4 FT AND MAXIMUM 6 FT LENGTHS. FOR FINAL CONNECTION TO MOTOR, TRANSFORMER, TRANSDUCERS AND OTHER VIBRATION EQUIPMENT. PROVIDE WITH POLYVINYL SHEATHING AND GROUND CONDUCTOR. NO BRASS LIQUID TIGHT, BLACK, EXCEPT GROUND CONDUCTOR TO ENCLOSURE OR MOTOR FRAME. USE FOR MOTOR, TRANSFORMER, TRANSDUCERS AND OTHER ELECTRICAL EQUIPMENT.

OUT CONDUIT ENDS SQUARE. REAM SMOOTH. EMPT WALL THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY FITTINGS.

EXPANSION FITTINGS SHALL BE INSTALLED AT RIGHT ANGLES WITH CLIP JOINT CENTERED IN EXPANSION JOINT. PROVIDE A LENGTH OF RUN IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS. PROJECT FITTINGS SHALL ALLOW FOR TEMPERATURE VARIATIONS. FOR EXPANSION JOINT CROSSINGS, CROSS AT RIGHT ANGLES AND PROVIDE FITTINGS FOR RACEWAY WITH SUFFICIENT SLACK. PROVIDE WITH EXTERNAL BONDING JUMPER STRIP. IN SLAB, PROVIDE 3/4 TYPE "CAP" OR APPROVED FITTING OR OTHER TYPE WHEN CONSTRUCTED.

C. EMPTY WALL WITH BOXES OUTLETS IN ADVANCE OF PLASTERING AND PREPARATIONS OUTLET BOXES SHALL BE SET BOXES AND TRUE WITH BUILDING FINISH. RECEIVE TO BUILDING SURFACE BY ADJUSTABLE STRIP RING OR OTHER IN WITH MASONRY. VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF DIVISION 09 TILES AND FABRICS. PROVIDE SUFFICIENT SLACK BETWEEN BOXES CONNECTED TO DIFFERENT PHASES FOR VOLTAGES EXCEEDING 150 VOLTS TO GROUND.

D. PANEL, JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES PHYSICAL JUNCTION AND PULL BOXES IN FINISHED SPACES. WHERE INDICATED, REMOVE RACEWAYS ON MAKE OTHER ARRANGEMENTS FOR CONNECTIONS. BOXES SHALL BE ACCESSIBLE. PROVIDE BOXES SUITABLE FOR THE SERVICE AND SUPPORT BOXES FROM BUILDING STRUCTURE, INCORPORATING BOXES SUPPORT FROM FLOOR TO CEILING CHANNELS FOR MOUNTING ON CONCRETE. PROVIDE CONSTRUCTION OUTLET BOXES FOR FIXTURES INCLUDED IN PLANS. OUTLET BOXES ARE ACCESSIBLE DIRECTLY OBTAINED CHANGED BY RE

GENERAL PLUMBING NOTES:

1. FURNISH AND INSTALL ALL ITEMS OF WORK AND SPECIFICATIONS SHOWN ON DRAWINGS IN COMPLIANCE WITH NATIONAL STANDARD PLUMBING CODE – 2009 AND INTERNATIONAL FUEL GAS CODE –2009 OF NEW JERSEY.

2. CONTRACTOR SHALL PROVIDE MATERIAL, EQUIPMENT, FIXTURES AND ACCESSORIES FOR THE COMPLETION OF THE WORK, TO MAKE THE SYSTEM READY FOR NORMAL AND PROPER OPERATION. CONTRACTOR SHALL ALSO INCLUDE ALL WORK OR MATERIALS NOT DIRECTLY SHOWN ON THE DRAWINGS OR IN THE SPECIFICATION BUT NECESSARY FOR THE PROPER OPERATION OF THE SYSTEM.

3. ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE ENGINEER, OWNER AND AGENCIES HAVING JURISDICTION.

4. PLANS AND SPECIFICATIONS SHOWN HEREIN ARE INTENDED FOR A COMPLETE PROJECT. "EXTRA COSTS" RESULTING FROM THIS WORK SHALL INVOLVE THE OWNER, ENGINEER OR OTHER CONTRACTORS.

5. CONTRACTOR SHALL CONFIRM ALL UTILITY COMPANY REQUIREMENTS AND CONNECTION POINTS IN FIELD PRIOR TO STARTING WORK.

6. CONTRACTOR SHALL OBTAIN & PAY FOR TOWN PERMITS AND ANY ADDITIONAL SERVICES REQUIRED UNDER THIS CONTRACT.

7. CONTRACTOR SHALL SUBMIT COPIES OF SHOP DRAWINGS WITH DIMENSIONS, CAPACITIES AND MANUFACTURER REQUIREMENTS. SHOP DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS AND EQUIPMENT:

- PIPING MATERIALS/FITTINGS/VALVES
- PIPING IDENTIFICATION LABELS/TAGS

8. ALL SHOP DRAWINGS, PRODUCT DATA AND SAMPLES SUBMITTED BY THE CONTRACTOR SHALL ILLUSTRATE DETAILS OF WORK, EQUIPMENT, MATERIALS, PRODUCTS, SYSTEMS, DESIGN OR WORKMANSHIP THAT THE CONTRACTOR INTENDS TO USE IN ORDER TO COMPLY WITH THE DESIGN ESTABLISHED IN THE CONTRACT DOCUMENTS.

9. PRIOR TO SUBMITTING A BID, CONTRACTORS ARE REQUIRED TO VISIT THE SITE, TAKE MEASUREMENTS, VERIFY ALL ELEVATIONS SHOWN ON PLANS AND INSPECT EXISTING CONDITIONS AND LIMITATIONS. NO ADDITIONAL ALLOWANCE WILL BE MADE BECAUSE OF MISUNDERSTANDING AS TO THE WORK INVOLVED UNDER THIS PROJECT.

10. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYOUT OF WORK AND COORDINATE LAYOUT WITH OTHER TRADES BEFORE PROCEEDING WITH CONSTRUCTION.

11. ALL CHANGES FROM THE PLANS NECESSARY TO MAKE THE WORK OF THIS PROJECT CONFORM TO THE BUILDING AS CONSTRUCTED AND TO FIT THE WORK OF OTHER TRADES SHALL BE MADE WITHOUT EXTRA COST.

12. PROTECT ALL EQUIPMENT, MATERIALS AND WORK PERFORMED UNDER THIS PROJECT FROM DAMAGE THAT MAY BE CAUSED BY OTHER WORKMEN.

13. CONTRACTOR SHALL KEEP ALL PIPING AND EQUIPMENT CAPPED, PLUGGED, DRAINED OR OTHERWISE PROTECTED INCLUDING PROTECTION FROM FREEZING AND ENTRANCE OF BUILDING MATERIALS, SAND, DIRT, MORTAR, CONCRETE, ETC.

14. AT THE COMPLETION OF EACH WORKING DAY, THE OPEN ENDS OF ALL PIPES SHALL BE PROVIDED WITH TEMPORARY PLUGS TO PREVENT THE ENTRANCE OF FOREIGN MATTER.

15. CONTRACTOR SHALL PROVIDE THEIR OWN CLEAN UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH ON A DAILY BASIS.

16. IT IS THE INTENT OF THE DRAWINGS TO SHOW THE UTILITIES AS ACCURATELY AS POSSIBLE. HOWEVER, THE CONTRACTOR SHALL VERIFY ACTUAL FIELD LOCATIONS PRIOR TO ANY CONSTRUCTION. IT IS THEREFORE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE TO THEIR OWN SATISFACTION THE LOCATION OF SUCH UTILITIES.

17. TESTING OF COMPLETE SYSTEM SHALL BE MADE IN THE PRESENCE OF OWNER'S REPRESENTATIVE AND AUTHORITY HAVING JURISDICTION, AS REQUIRED BY LOCAL CODES.

18. THE CONTRACTOR SHALL REPLACE OR REPAIR AT THEIR OWN EXPENSE ANY PIECE OF EQUIPMENT AND/OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE DURING INSPECTION OR TEST, INSPECTION AND TEST SHALL BE REPEATED FOR THE REPLACED AND REPAIRED EQUIPMENT OR MATERIALS.

19. CONTRACTOR SHALL ALSO REPAIR ALL DAMAGE TO SURROUNDING AREAS CAUSED BY FAILURE OR REPAIR OF DEFECTIVE EQUIPMENT OR MATERIAL.

20. ALL WORK SHALL BE SCHEDULED IN COMPLIANCE WITH THE OWNER'S REQUIREMENTS FOR THE USE OF EXISTING FACILITIES. ANY INTERRUPTION IN PRIMARY SERVICES MUST BE KEPT TO AN ABSOLUTE MINIMUM.

21. CONTRACTOR SHALL REPLACE ALL EXISTING CONSTRUCTION BEING REMOVED TO MATCH EXISTING FACILITIES.

22. ALL PIPING SUPPORTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

SEISMIC RESTRAINTS GUIDELINES FOR PIPING

1. ALL SEISMIC RESTRAINTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURE'S SEISMIC RESTRAINT GUIDELINES MANUAL AND ALL CERTIFIED SUBMITTAL DATA.

2. TRANSVERSE BRACE SPACING NOT EXCEED 50 FEET UP TO 0.25g, 40 FEET UP TO 1.00, AND 20 FEET UP TO 2.0g. FOR STEEL AND COPPER PIPE WITH WELDED OR BRAZED CONNECTION. LONGITUDINAL SPACING SHALL NOT EXCEED 80 FEET UP TO 1.0g. AND 40 FEET UP TO 2.0g FOR STEEL AND COPPER PIPE WITH WELDED OR BRAZED CONNECTIONS.

3. STEEL AND COPPER PIPE WITH CREWED CONNECTION BRACING SPACING SHALL NOT EXCEED ½ THE SPACING LISTED IN NOTE 2 GUIDELINES, FOR PVC, PVDF, FRP AND OTHER SPECIALITY PIPING BRACE SPACING SHALL NOT EXCEED ½ THE SPACING LISTED IN NOTE 2. ALL PIPE MUST BE CONSIDERED FULL OF WATER WHEN DETERMINING SEISMIC BRACE REQUIREMENTS UNLESS SPECIFICALLY ENGINEERED OTHERWISE.

4. TRANSVERSE RESTRAINT FOR ONE PIPE SECTION MAY ALSO ACT AS A LONGITUDINAL RESTRAINT FOR A PIPE SECTION OF THE SAME SIZE CONNECTED PERPENDICULAR TO IT IF THE RESTRAINT IS INSTALLED WITHIN 24–INCHES OF THE ELBOW OR TEE OR COMBINED STRESSES ARE WITHIN ALLOWABLE LIMITS AT LONGER DISTANCE.

5. HOLD DOWN CLAMP MUST BE USED TO ATTACH PIPE TO ALL TRAPEZE MEMBERS BEFORE APPLYING RESTRAINTS.

6. BRANCH LINES MAY NOT BE USED TO RESTRAINT MAIN LINES.

7. PROVIDE REINFORCED CLEVIS BOLTS WHEN REQUIRED.

8. PIPING CROSSING BUILDING SEISMIC OF EXPANSION JOINTS, PASSING FROM BUILDING, OR SUPPORTED FROM DIFFERENT PORTIONS OF THE BUILDING SHALL BE INSTALLED TO ALLOW DIFFERENTIAL SUPPORT DISPLACEMENTS WITHOUT DAMAGING THE PIPE, EQUIPMENT CONNECTION OR SUPPORT CONNECTIONS, PIPE OFFSETS, LOOPS, ANCHORS, AND GUIDES SHALL BE INSTALLED AS REQUIRED TO PROVIDE SPECIFIED MOTION CAPABILITY AND LIMIT MOTION OF ADJACENT PIPING.

9. PROVIDE APPROPRIATELY SIZED OPENINGS IN WALLS, FLOORS, AND CEILINGS FOR ANTICIPATED SEISMIC MOVEMENT. PROVIDE FIRE SEAL SYSTEMS IN FIRE–RATED WALLS.

10. GAS PIPING LESS THAN 1" I.D. NEED NOT BE BRACED.

11. WHERE RIGIDITY SUPPORTED PIPES ARE CONNECTED TO EQUIPMENT WITH VIBRATION ISOLATION, THOSE CONNECTIONS MUST BE CAPABLE OF ACCOMMODATING SEISMIC DISPLACEMENTS. CONVERSELY, WHEN SMALLER UNSUPPORTED PIPES ARE CONNECTED TO RIGIDLY SUPPORTED EQUIPMENT (i.e. COILS, etc.) THOSE JOINTS MUST BE CAPABLE OF ACCOMMODATING MOVEMENT OF THE PIPES.

12. RIGID PIPING SYSTEM MAY NOT BE BRACED TO DISSIMILAR PARTS OF THE BUILDING OR TO DISSIMILAR BUILDING SYSTEMS WHICH MAY RESPOND DIFFERENTLY DURING AN EARTHQUAKE. DO NOT BRACE A SYSTEM TO TWO INDEPENDENT STRUCTURES SUCH AS CEILING OR WALL.

13. SEISMICALLY RESTRAIN ALL FUEL OIL PIPING, GAS PIPING, MEDICAL GAS, AND COMPRESSED AIR PIPING FOR FUEL OIL AND ALL GAS PIPING THAT IS 1" I.D. OR LARGER. TRANSVERSE RESTRAINTS MUST BE AT 20' MAXIMUM AND LONGITUDINAL RESTRAINTS AT 40' MAXIMUM SPACING.

14. PIPING LOCATED IN BOILER ROOMS, MECHANICAL EQUIPMENT ROOMS, AND REFRIGERATION EQUIPMENT ROOMS THAT IS 1–1/4" I.D. AND LARGER MUST BE SEISMICALLY RESTRAINED.

15. ALL OTHER PIPING 2–1/2" DIAMETER AND LARGER MUST BE SEISMICALLY RESTRAINED.

16. SEISMIC RESTRAINS MAY NOT BE USED FOR ALL PIPING SUPPORTED BY INDIVIDUAL HANGERS 12" OR LESS AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PIPE SUPPORTS WHERE THE HANGER IS ATTACHED. HOWEVER IF THE 12" LIMIT IS EXCEEDED BY ANY HANGER IN THE RUN, SEISMIC IS REQUIRED FOR THE RUN.

17. THE 12" EXEMPTION APPLIES FOR TRAPEZE SUPPORTED SYSTEMS IF THE TOP OF EACH ITEM SUPPORTED BY THE TRAPEZE QUALIFIES.

18. WHERE THERMAL EXPANSION IS CONSIDERATION, GUIDES AND ANCHORS MAY BE USED AS TRANSVERSE AND LONGITUDINAL RESTRAINS PROVIDED THEY HAVE A CAPACITY EQUAL TO OR GREATER THAN THE RESTRAINT LOADS IN ADDITION TO THE LOADS INDUCED BY EXPANSION OR CONTRACTION.

19. STEEL STRUTS SHALL BE 1–5/8" WIDE IN VARYING HEIGHTS AND MIG–WELDED COMBINATIONS AS REQUIRED TO MEET LOAD CAPACITIES AND DESIGNS INCLUDED. A MATERIAL HEAT CODE, PART NUMBER, AND MANUFACTURER'S NAME SHALL BE STAMPED ON ALL STRUT AND FITTINGS TO MAINTAIN TRACEBILITY TO MATERIAL TEST REPORTS.

20. SEISMIC RESTRAINTS FOR PIPING SYSTEMS SHALL WITHSTAND A LATERAL FORCE EQUAL TO 50% OF THE WEIGHT OF THE PIPING SYSTEM AND ITS CONTENTS. SEISMIC BRACING SHALL CONFORM TO THE CURRENT ADOPTED EDITION OF THE NEW JERSEY BUILDING CODE AND THE UNIFORM CONSTRUCTION CODE, AND SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES FOR SEISMIC RESTRAINT, LATEST EDITION.

21. SPECIAL PIPE HANGER AND SUPPORT PROVISIONS REQUIRED FOR CONTROL OF PIPE EXPANSION, VIBRATION, AND SOUND TRANSMISSION IN CERTAIN PIPING SHALL BE DONE IN ACCORDANCE WITH GOOD SOUND ATTENUATION PRACTICE.

22. SUPPORT CHANNELS, FRAMES, BRACKETS, AND LEGS OF SPECIAL SUPPORTS SHALL BE OF UNISTRUT SUPERSTRUT, OR ACCEPTED EQUAL WITH CHANNELS, ATTACHING CLIPS, PIPE CLAMPS, AND OTHER REQUIRED ACCESSORIES.

23. PLASTIC PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH CODE REQUIREMENTS (REVIEW WITH JURISDICTION) SHIMS SHALL BE PROVIDED TO PREVENT PIPE SAG BETWEEN FITTINGS.

24. SPACING OF TRAPEZE HANGERS SHALL BE DETERMINED BY THE SMALLEST PIPE ON THE TRAPEZE, SIZE OF RODS FOR TRAPEZES SHALL BE CONFIRMED BY THE LARGEST PIPE ON THE TRAPEZE.

25. TRAPEZE HANGERS SHALL NOT BE LIGHTER THAN 18 GAUGE AND WHEN EXPOSED TO WEATHER, NOT LIGHTER THAN 12 GAUGE. PIPING THAT RUNS IN PARTITIONS AND IS NOT SUPPORTED FROM CEILING OR FLOOR SHALL BE SECURELY AND INDEPENDENTLY FASTENED TO THE PARTITION MEMBERS WITH CLAMPS OR BRACKETS.

26. LATERAL MOTION OF PIPING WILL NOT CAUSE DAMAGING IMPACT WITH SURROUNDING SYSTEMS (eg. OTHER PIPE, DUCT, EQUIPMENT, SPRINKLER HEAD etc.) OR CAUSE LOSS OF SYSTEM VERTICAL SUPPORT.

27. VERTICAL SUPPORT IN AN OPEN SHAFT MUST BE ATTACHED TO THE SUPPORTS WITH CONNECTIONS SIZED TO ACCEPT THE HORIZONTAL SEISMIC LOAD.

28. VERTICAL CAST IRON RISERS ATTACHED WITH SHIELD AND CLAMP ASSEMBLIES MUST BE STIFFENED AT THE CONNECTION POINTS OF ANY UNSUPPORTED SECTIONS OF PIPE.

29. VERTICAL RISER IN OPEN SHAFT MUST BE ATTACHED TO THE SUPPORTS WITH CONNECTIONS SIZED TO ACCEPT THE HORIZONTAL SEISMIC LOADS.

30. WHERE EARTHQUAKE LOADS ARE APPLICABLE IN ACCORDANCE WITH THE BUILDING CODE, PLUMBING PIPING SUPPORTS SHALL BE DESIGNED AND INSTALLED FOR THE SEISMIC FORCES IN ACCORDANCE WITH THE BUILDING CODE.

31. HANGERS, ANCHORS, AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONNECTIONS OF THE PIPING. HANGERS AND STRAPPING MATERIAL SHALL BE OF APPROVED MATERIAL THAT WILL NOT PROMOTE GALVANIC ACTION. HANGERS AND ANCHORS SHALL BE ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.

32. RIGID SUPPORTS SWAY BRACING SHALL BE PROVIDED AT CHANGE IN DIRECTION GREATER THAN 45 DEGREES FOR PIPE SIZES 4 INCHES AND LARGER.

33. ANCHOR SHALL BE PROVIDED TO RESTRAIN DRAINAGE PIPING FROM AXIAL MOVEMENT.

34. FOR PIPE SIZES GREATER THAN 4 INCHES, RESTRAINTS SHALL BE PROVIDED FOR DRAIN PIPE AT ALL CHANGES IN DIRECTION AND AT ALL CHANGES IN DIAMETER GREATER THAN 2 PIPE SIZES.

NATURAL GAS SPECIFICATIONS

1. GENERAL

A. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATIONS SHALL BE CORRECTED BY THE CONTRACTOR.

B. ALL PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS, AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING TO AVOID OBSTRUCTIONS.

C. SUPPORT NEW PIPING FROM BUILDING STRUCTURE AND OR FRAMING IN AN APPROVED MANNER.

D. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.

E. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH THE BUILDING OWNER.

F. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND APPROVED MANNER.

G. KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.

H. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.

I. THE WORK OUTSIDE THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER.

J. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION.

K. COMPLY WITH ALL LOCAL AND STATE CODES FOR SEISMIC ISOLATION. THE DRAWINGS DO NOT SHOW ALL SEISMIC ISOLATION POINTS, THEREFORE ALLOW FOR SEISMIC ISOLATION IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

2. GUARANTEE

A. FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. WHERE DEFECTS OCCUR, ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF THE OTHER TRADES AFFECTED BY DEFECTS.

3. SCOPE OF WORK

A. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS, AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLATION AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. INCLUDE ALL COSTS FOR PERMITS, LICENSES AND CERTIFICATE FILING AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

NATURAL GAS SPECIFICATIONS (CONT.)

4. PIPE, VALVES AND FITTINGS

A. NATURAL GAS – HIGH PRESSURE (GREATER THAN 1/2 PSIG)

(1) PIPE: STEEL PIPE, ASTM A53, TYPE E, ELECTRIC–RESISTANCE WELDED OR TYPE S, SEAMLESS, GRADE B, SCHEDULE 40, BLACK.

(2) FITTINGS (2" & SMALLER): MALLEABLE–IRON WELDED FITTINGS; ASME B16.3, CLASS 150, STANDARD PATTERN, WITH THREADS CONFORMING TO ASME B1.20.1.

(3) JOINING MATERIALS: TEFLON TAPE OR PIPE DOPE (2" & SMALLER).

(4) UNIONS: ASME B16.39, CLASS 150, BLACK MALLEALBE–IRON; FEMALE PATTERN, BRASS–TO–IRON SEAT, GROUND JOINT.

(5) INSTALL DIELECTRIC FITTINGS WHERE PIPING OF DISSIMILAR METALS ARE JOINED.

(6) COMPLY WITH NFPA 54 "NATIONAL FUEL GAS CODE" AND "INTERNATIONAL FUEL GAS CODE" FOR GAS PIPING MATERIALS, COMPONENTS AND INSTALLATION REQUIREMENTS.

5. APPLIANCE FLEXIBLE CONNECTORS:
1. OUTDOOR APPLIANCE FLEXIBLE CONNECTORS: COMPLY WITH ANSI Z21.75.
2. CORRUGATED STAINLESS–STEEL TUBING WITH POLYMER COATING.
3. OPERATING PRESSURE RATING: 0.5 PSIG
4. END FITTING: ZINC–COATED STEEL.
5. THREADED ENDS: COMPLY WITH ASME B1.20.1
6. MAXIMUM LENGTH: 60 INCHES.

6. IDENTIFICATION:
PROVIDE SYSTEM IDENTIFICATION, 10 FT. ON CENTER, INDICATING SYSTEM, SIZE AND DIRECTION OF FLOW FOR EXISTING AND NEW ABOVE GROUND EXTERIOR PIPING.

7. SUPPORTS
NATURAL GAS PIPING:

(1) SUPPORT PIPING INDEPENDENTLY FROM STRUCTURE AND AT DISTANCES AS REQUIRED BY CODE.

(2) PIPE ATTACHMENTS:

a. ADJUSTABLE STEEL CLEVIS HANGERS: MSS TYPE 1 FOR STRAIGHT HORIZONTAL RUNS OF 100 FT OR LESS.

b. ADJUSTABLE ROLLER HANGERS: MSS TYPE 43, FOR STRAIGHT HORIZONTAL RUNS LONGER THAN 100 FT.

c. RISER CLAMPS: MSS TYPE 8 OR TYPE 42 FOR VERTICAL RUNS.

(3) PROVIDE SEISMIC SUPPORTS FOR NEW AND EXISTING GAS PIPING ON UTILITY GAS PIPING SYSTEM.

8. TESTING

A. NATURAL GAS SYSTEM: INSPECT, TEST, AND PURGE NATURAL GAS SYSTEM ACCORDING TO NFPA 54, PART 4 "GAS PIPING INSPECTION, TESTING, AND PURGING" AND LOCAL GAS UTILITY REQUIREMENTS.

9. SHOP DRAWINGS

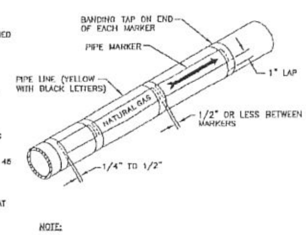
A. FURNISH SHOP DRAWINGS OF ALL MATERIAL BEING PROVIDED. SUBMIT TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION.

LEGEND

Symbol	Description
—NG—	NATURAL GAS LINE
	GAS COCK
	UNION
	PIPE RISE
	PIPE DOWN
	NEW WORK
	EXISTING WORK TO BE REMOVED
	EXISTING WORK TO REMAIN
	REVISION
	ITEMS INCLUDED UNDER REVISION
(1)	DEMOLITION NOTE SYMBOL
(1)	NEW WORK NOTE SYMBOL
	POINT OF CONNECTION
	POINT OF REMOVAL
2"–GAS–CS	TYPE OF MATERIAL / UTILITY SERVICE / NOMINAL PIPE SIZE

ABBREVIATIONS

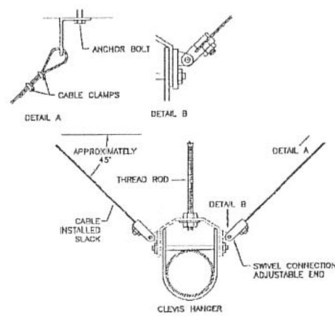
CS	CARBON STEEL
CFH	CUBIC FEET HOUR
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EXIST.	EXISTING
GC	GENERAL CONTRACTOR
MFR	MANUFACTURER
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PSIG	POUNDS PER SQUARE INCH GAUGE
TYP	TYPICAL



NOTE:

LABELS SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5'-0"

HORIZONTAL PIPE LABEL DETAIL (1/P00) NTS



GAS SEISMIC CABLE BRACE DETAIL (2/P00) NTS

REV	REVISION DESCRIPTION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RAW	22 NOV 2013

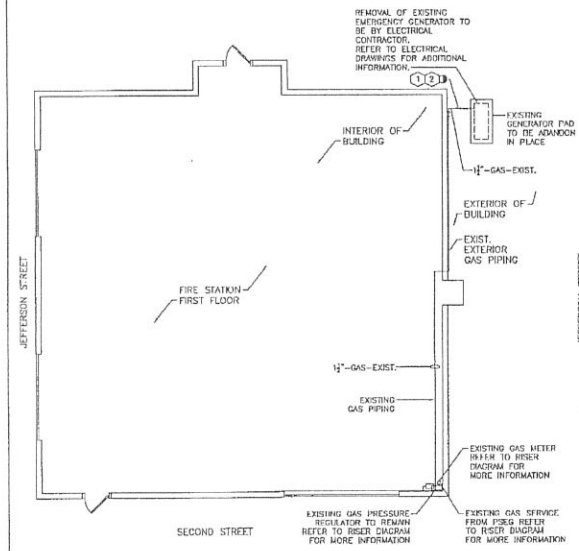
EI Associates
ARCHITECTS & ENGINEERS, PA

SCALE: AS NOTED

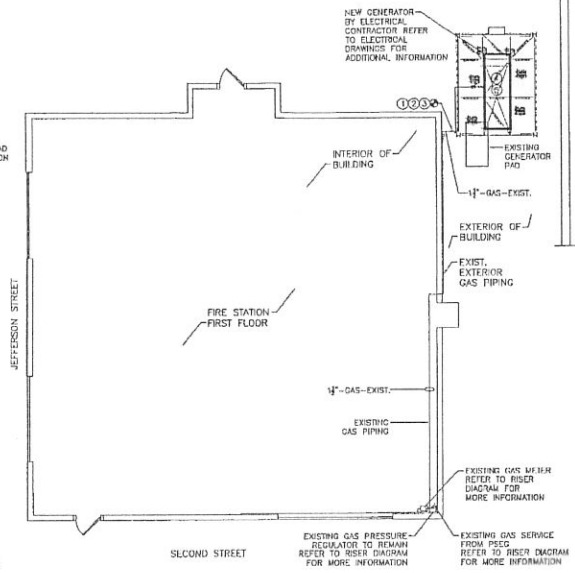
PROJECT: CITY OF HOBOKEN
INSTALLATION OF EMERGENCY BACK–UP GENERATOR
FIRE STATION
201 JEFFERSON STREET
HOBOKEN, NEW JERSEY

TITLE: PLUMBING
GENERAL NOTES, LEGEND AND ABBREVIATIONS

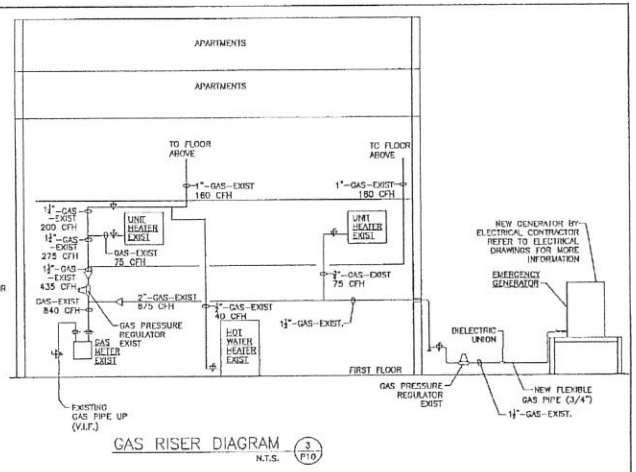
EA DRAWING NO. P00



DEMOLITION PLAN 1/P10
3/16" = 1'-0"



NEW WORK PLAN 2/P10
3/16" = 1'-0"



GAS RISER DIAGRAM 3/P10
N.T.S.

GAS RISER NOTES:

1. EXISTING GAS RISER DIAGRAM INFORMATION TAKEN FROM FIELD SURVEY.
2. EXISTING GAS LOAD

EQUIPMENT	CFH	EQUIPMENT	CFH
DEMO GENERATOR	550	NEW GENERATOR	800
UNIT HEATER EXIST	75	UNIT HEATER EXIST	75
HOT WATER HEATER EXIST	40	HOT WATER HEATER EXIST	40
UNIT HEATER EXIST	75	UNIT HEATER EXIST	75
APARTMENT HEAT EXIST	160	APARTMENT HEAT EXIST	160
APARTMENT HEAT EXIST	160	APARTMENT HEAT EXIST	160
TOTAL EXIST. CONNECTED LOAD	1,060	TOTAL NEW CONNECTED LOAD	1,110 (INCREASE LOAD OF 50 CFH)

3. GAS PIPING IS SIZE BASED ON INTERNATIONAL FUEL GAS CODE -2009, TABLE 402.4 (1) SCHEDULE 40 METALIC PIPE, INLET PRESSURE LESS THAN 2 PSI, PRESSURE DROPP IS 0.5 INCH OF W.C., SPECIFIC GRAVITY = 0.60, TOTAL EQUAL LENGTH = 80 FOOT

DEMOLITION NOTES:

1. NO SYSTEM (NATURAL GAS) SHALL BE SHUTDOWN WITHOUT PRIOR REVIEW WITH OWNER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION CAN BE AFFECTED BY A SHUTDOWN. SUFFICIENT ADVANCE NOTICE (72 HOURS) MUST BE GIVEN TO ONSITE FIRE DEPARTMENT CAPTAIN INDICATING WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
2. DEMOLISH AND REMOVE EXISTING FLEXIBLE GAS PIPING FROM EXISTING EMERGENCY GENERATOR AS SHOWN ON THE DRAWING. TEMPORARILY CAP PIPING FOR NEW WORK TIE-IN.

GENERAL DEMOLITION NOTES

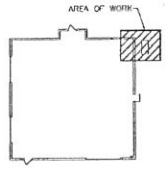
1. THE PURPOSE OF THIS DEMOLITION PLAN IS TO INDICATE THE SCOPE OF THE DEMOLITION WORK TO PERMIT THE INSTALLATION OF NEW WORK INDICATED ON SUBSEQUENT PLANS. COORDINATION ACTUAL DEMOLITION WORK WITH BOTH NEW WORK AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED.
2. REMOVE EXISTING PIPING TO THE EXTENT INDICATED. DISPOSE OF IT OFF SITE IN A SAFE AND LEGAL MANNER WHERE SUCH WORK IS INDICATED TO BE DEMOLISHED.
3. REFER TO AND COORDINATE PLUMBING DEMOLITION WORK WITH THAT OF OTHER DISCIPLINES AS SHOWN ON ELECTRICAL DRAWINGS.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
5. PROVIDE COMPLETE REMOVALS OF SYSTEMS AS SHOWN UNLESS OTHERWISE DIRECTED. INCLUDE HANGERS, VALVES, SPECIALTIES AND OTHER ITEMS OF PLUMBING CONSTRUCTION.
6. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
7. EXECUTE DEMOLITION/ALTERATIONS IN SUCH MANNER SO AS TO MINIMIZE DAMAGE TO WORK THAT IS TO REMAIN.
8. CONTRACTOR SHALL PROVIDE COVERS FOR DEMOLISHED MATERIALS WHEN CARTING PRODUCT FOR OFFSITE DISPOSAL.
9. WHEN THE CONTRACTOR'S OPERATIONS DICTATE THE SHUTDOWN OF THE EXISTING SYSTEMS ON-SITE, SUCH SHUTDOWN MAY ONLY BE PERFORMED ON A WEEKDAY, AND WITH THE PERMISSION OF OWNER. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OWNER.

SHEET NOTES:

1. CONNECT NEW ¾" DIA APPLIANCES FLEXIBLE CONNECTOR PIPING TO NEW EMERGENCY GENERATOR. REFER TO SPECIFICATION FOR MORE INFORMATION. PIPE SIZE SHALL MATCH WITH GENERATOR GAS PIPING CONNECTION AND PROVIDE PIPING TRANSITION AS REQUIRED.
2. CONTRACTOR SHALL COORDINATE IN THE FIELD EXACT TIE-IN CONNECTION TO NEW EMERGENCY GENERATOR.
3. CONTRACTOR SHALL TEST THE GAS PIPING CONNECTION FOR LEAKS, IF ANY LEAKS CONTRACTOR SHALL CORRECT IT.
4. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR TESTING THE EMERGENCY GENERATOR. CONTRACTOR SHALL TEST THE EMERGENCY GENERATOR BY TURNING ON (IN OPERATION) ALL GAS EQUIPMENT. CONTRACTOR SHALL KEEP GENERATOR AND ALL GAS CONNECTED LOAD EQUIPMENT IN OPERATION FOR MINIMUM 4 HOURS.
5. CONTRACTOR SHALL PROVIDE TRAINING TO ONSITE FIRE DEPARTMENT PEOPLE FOR GENERATOR OPERATION AND SHUTING OFF GAS SUPPLY.

REFER TO DRAWING P00 FOR ADDITIONAL GENERAL, PLUMBING NOTES, AND SPECIFICATION INFORMATION FOR WORK IN THIS AREA.

REFER TO DRAWING P00 FOR ADDITIONAL PLUMBING INFORMATION FOR DETAIL WORK IN THIS AREA.



KEY PLAN
N.T.S.

0 2' 4' 8' 16'
3/16" = 1'-0"

REV	REVISION DESCRIPTION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RAM	22 NOV 2013

EI Associates
ARCHITECTS & ENGINEERS, PA

SCALE: AS NOTED
DRAWN BY: RAM
REVIEWED BY: RAM
CHECKED BY: RAM
APPROVED BY:
PROJECT MANAGER:

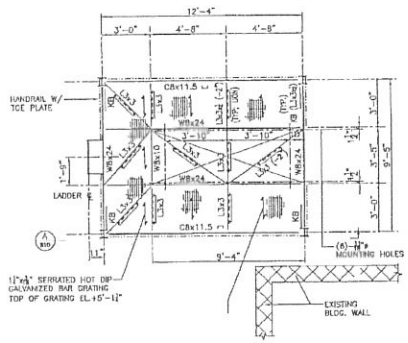
PROJECT: CITY OF HOBOKEN
INSTALLATION OF EMERGENCY BACK-UP GENERATOR
FIRE STATION
201 JEFFERSON STREET
HOBOKEN NEW JERSEY

TITLE: PLUMBING FIRST FLOOR PLANS, RISER DIAGRAM AND NOTES

EA DRAWING NO.
P10

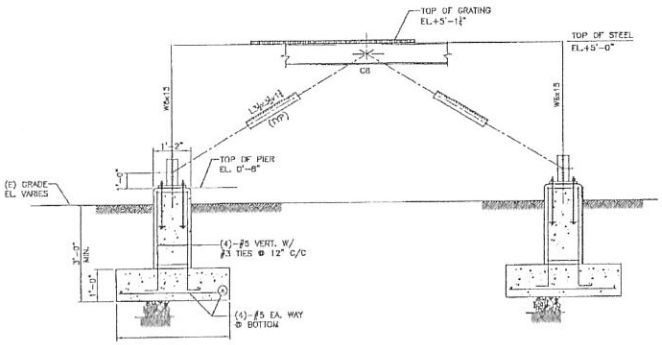
CLIENT DWG. NO.

EA PROJECT NO.
1322.02.00

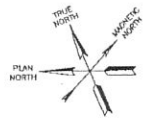


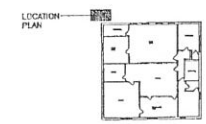
PLATFORM FRAMING PLAN
3/8" = 1'-0"

NOTE:-
1. TOP OF STEEL EL.+5'-0" (TYP; UON)



SECTION A/S10
3/4" = 1'-0"





KEY PLAN

0 4' 8' 16' 32'
1/8" = 1'-0"

DO NOT SCALE DRAWING USE DIMENSIONS ONLY

REV	REVISION DESCRIPTION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RAM	22 NOV 2013

EI Associates
ARCHITECTS & ENGINEERS, PA

SYED A. HUSSAIN, P.E.
PROFESSIONAL ENGINEER
LICENSE NO. NJ 07-46118

STRUCTURAL

SCALE AS NOTED
DRAWN BY
DESIGNED BY
CHECKED BY
APPROVED BY
PROJECT MANAGER

PROJECT
CITY OF HOBOKEN
INSTALLATION OF EMERGENCY BACK-UP GENERATOR
FIRE STATION
201 JEFFERSON STREET
HOBOKEN NEW JERSEY

TITLE
PLATFORM FRAMING PLAN & SECTION

EA DRAWING NO.
S10

CLIENT DWG. NO.
EA PROJECT NO.

State of New Jersey
OFFICE OF THE ATTORNEY GENERAL
DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON, NJ 08628-0068
(609) 882-2000

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

JOHN J. HOFFMAN
Acting Attorney General

COLONEL JOSEPH R. FUENTES
Superintendent

October 9, 2013

The Honorable Dawn Zimmer
Mayor
City of Hoboken
94 Washington Street
Hoboken, New Jersey 07030

Dear Mayor Zimmer:

I am pleased to inform you that the State of New Jersey has allocated $142,080 to the City of Hoboken through the Hazard Mitigation Grant Program – Energy Allocation Initiative.[1] The Energy Allocation Initiative is intended to support efforts to encourage enhanced energy resilience for critical assets and facilities in New Jersey. The program will allow communities to pursue technical innovation by harnessing the resources of the State's energy, environmental, and emergency management agencies and the perspective of the U.S. Department of Energy's subject matter experts.

Communities across the State have recognized the importance of energy resilience in the Superstorm Sandy long-term recovery process: the Hazard Mitigation Grant Program (HMGP) received over 750 Letters of Intent in requests for generators and energy solutions totaling over $325 million in estimated cost. With the collaboration of representatives from the NJ Office of Emergency Management, NJ Office of Homeland Security & Preparedness, NJ Department of Environmental Protection, and the NJ Board of Public Utilities, each Letter of Intent submitted to the HMGP that included an energy project was analyzed. Objective criteria – including population size and density, facility type, NFIP

[1] The State intends to satisfy the Hazard Mitigation Grant Program – Energy Allocation Initiative's local share obligation. Therefore the Energy Allocation funding level specified represents the full value of the allocated funds available to support energy resilience projects. Any costs in excess of the Energy Allocation will be the responsibility of the municipality.

participation, FEMA Public Assistance data, and other relevant factors – were used as a guide to identify those energy resilience projects that have the potential to serve the greatest need in the event of a future disaster or other event impacting the larger electrical grid. In total, $25 million is being allocated to 147 jurisdictions and public entities to support energy resilience projects. Your municipality is receiving an allocation because your request to pursue energy resilience for critical facilities identified in your community scored among the highest in the State. Your Energy Allocation may be used to support energy resilience projects to benefit these buildings and/or other locations of critical importance to the City of Hoboken that meet FEMA's minimum eligibility requirements.

As part of the process, the State partnered with the U.S. Department of Energy (DOE), the DOE's National Renewable Energy Laboratory (NREL), and FEMA to analyze HMGP requests for energy solutions. NREL developed an energy questionnaire to evaluate potential resilient energy solutions and then analyzed the results on a local/facility level. Based on those results, NREL identified potential opportunities on a local/facility level to build energy resilience by pursuing innovative – but cost-effective – energy solutions. Those opportunities include retrofitting existing solar panel systems to provide continuous power during a disaster; exploring fuel cells, combined-heat-and-power, or other resilient technology which could result in monthly energy savings and be "islanded" from the electrical grid; installing natural gas, solar, or tri-fuel generators; and other innovative technologies. The attached enclosure summarizes the analysis to address specific needs of your municipality, based on the information provided to NREL. (*See* Appendix A, "National Renewable Energy Laboratory's Analysis.") A broader set of technologies is also available. (*See* Appendix B, "Energy Allocation Permissible Uses.")

In some circumstances, diesel emergency generators – which are an eligible expense under the HMGP Energy Allocation Initiative – may offer a degree of energy resilience. As the NREL analyses highlight, other energy technologies may actually offer greater resilience in the event of prolonged electrical grid failures: solutions other than diesel generators may be less reliant on liquid fuel supply and availability, may have longer continuous run times, and less environmental impacts. Depending on the type of energy technology your municipality pursues, additional incentive grants of up to $3 million are currently available to support certain types of technology through New Jersey's Clean Energy Program – Combined Heat and Power/Fuel Cell programs.[2] In addition, the State is exploring revolving loan funds and other models that would offer additional support through a combination of additional grants and low-interest financing.

As a condition of receiving funding under the State's HMGP Energy Allocation Initiative, a representative from your municipality is <u>required</u> to attend one of three seminars offered later this month. (*See* Appendix C, "Energy Allocation Initiative Information Seminars.") At the seminars, subject matter experts in energy resilience will discuss the technologies available through the Energy Allocation Initiative and information will be provided on the process for accessing HMGP Energy Allocation Initiative funding. The seminars will also discuss opportunities to leverage other available funding sources to support resilient energy projects. **<u>Please register no later than 5:00pm on Thursday, October 24, 2013</u>** for one of the three seminars. Registration is available online at the Sustainable Jersey® website (http://www.sustainablejersey.com/index.php?id=305).

[2] Additional information is available at http://www.njcleanenergy.com/.

Your municipality's Energy Allocation is subject to additional terms and conditions, which will be discussed at the seminar. All projects must meet FEMA regulations and are subject to a benefit-cost analysis, permitting, and other restrictions. In addition, your municipality will be required to submit a State-approved project(s) plan by a date certain or risk loss of funding.

Although we will discuss the process for moving forward at the upcoming seminars later this month, please feel free to contact me by phone, (609) 306-8927, or by email, lpp5698@gw.njsp.org, with any questions. In addition, the NJ Board of Public Utilities is available to answer questions regarding energy solutions by phone, at (866) NJ-SMART, or by email, HMGPTechnologies@njcleanenergy.com. On behalf of the cross-agency working group leading New Jersey's energy resilience efforts following Superstorm Sandy, we look forward to the opportunity to work with you.

Sincerely,

A/SFC Michael Gallagher

A/SFC Michael Gallagher
State Hazard Mitigation Officer

c: Stephen Marks, smarks@hobokennj.org

APPENDIX A
National Renewable Energy Laboratory's Analysis
for the City of Hoboken

This past summer, the City of Hoboken was asked to participate in a statewide questionnaire which requested information regarding critical facilities and assets in that municipality, including facilities' electrical and thermal load, facility size, and other technical information. Information provided was analyzed by subject matter experts at the National Renewable Energy Laboratory (NREL) to evaluate opportunities for energy resilience. Based on that analysis, NREL identified energy technology solutions specific to facilities evaluated. NREL's analysis can be used as a resource to support jurisdictions and entities in making decisions on the most cost-effective, resilient technologies commercially available.

The results of NREL's analysis for the City of Hoboken are listed in the accompanying table, to the extent your municipality participated in the statewide questionnaire. (*See* "Appendix A (Continued).") Hazard Mitigation Grant Program – Energy Allocation Initiative funds may potentially be used to support the implementation of NREL's analysis.[3]

Additional resources are available to assist in selecting the most effective resilient energy technology on a facility-level basis. The NJ Board of Public Utilities is available to answer technical questions by phone, at (866) NJ-SMART, or by email, HMGPTechnologies@njcleanenergy.com. In addition, the NJ Board of Public Utilities offers no-cost energy audits to municipalities and other government units that can provide an initial estimate of the feasibility and cost effectiveness of the energy resilient technologies.

[3] NREL's analysis is not binding on jurisdictions and entities. Energy Allocations are intended to support the permissible uses listed in Appendix B and are subject to FEMA benefit-cost analysis and applicable regulations.

The analysis was compiled by NREL for FEMA and the State of New Jersey. Neither the United States government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States government or any agency thereof.

APPENDIX B

Permissible Uses of Energy Allocation Initiative Funding

The State intends for the Energy Allocation Initiative to offer municipalities, counties, and other qualified government units the opportunity to pursue energy resilience through a broad range of available technologies. Below is a list of permissible uses for Energy Allocation Initiative funding.

The permissible use(s) ultimately pursued using Energy Allocation Initiative funding must comply with FEMA regulations and would need to meet FEMA minimum standards for HMGP awards, including a benefit-cost analysis. Additional information regarding each permissible use will be available at the upcoming seminars and on the Sustainable Jersey website as well as the NJ Clean Energy website. (*See* Appendix C.)

Permissible Use	Description of Permissible Use
Permanent back-up or stand-by generator to be operated as an emergency generator (powered by *natural gas*)	A small capacity natural gas generator, typically in the 100 kW or smaller range but could be larger. The generator is installed permanently on-site and operates automatically when the distribution grid power is down. This includes a transfer switch and wiring of critical loads with a lock box. The generator must be operated as an emergency generator only as defined by the New Jersey Department of Environmental Protection (NJDEP). Engines powering generators that comply with all applicable regulations (including installation of air pollution control equipment) can be permitted as regular generators allowing them to operate during periods other than defined emergencies. The approximate cost for the installation of a permanent emergency generator is in the $450 per kW to $650 per kW range.
Permanent back-up or stand-by generator to be operated as an emergency generator (powered by *propane*)	A small propane capacity generator, typically in the 100 kW or smaller range but could be larger. The generator is installed permanently on-site and operates automatically when the distribution grid power is down. This includes a transfer switch and wiring of critical loads with a lock box. The generator must be operated as an emergency generator only as defined by NJDEP. Engines powering generators that comply with all applicable regulations (including installation of air pollution control equipment) can be permitted as regular generators allowing them to operate during periods other than defined emergencies. The approximate cost for the installation of a permanent emergency generator is in the $450 per kW to $650 per kW range.
Permanent back-up or stand-by generator to be operated as an emergency generator (powered by *diesel*)	A small diesel capacity generator, typically in the 100 kW or smaller range but could be larger. The generator is installed permanently on-site and operates automatically when the distribution grid power is down. This includes a transfer switch and wiring of critical loads with a lock box. The generator must be operated as an emergency generator only as defined by NJDEP. Engines powering generators that comply with all applicable regulations (including installation of air pollution control equipment) can be permitted as regular generators allowing them to operate during periods other than defined emergencies. The approximate cost for the installation of a permanent emergency generator is in the $450 per kW to $650 per kW range.
Permanent back-up or stand-by generator to be operated as an emergency generator (powered by *combination of sources or dual/trifuels*)	A small capacity generator, typically in the 100 kW or smaller range but could be larger. These generators can use a combination of fuels including diesel and natural gas. The generator is installed permanently on-site and operates automatically when the distribution grid power is down. This includes a transfer switch and wiring of critical loads with a lock box. The generator must be operated as an emergency generator only as defined by NJDEP. Engines powering generators that comply with all applicable regulations (including installation of air pollution control equipment) can be permitted as regular generators allowing them to operate during periods other than defined emergencies. The approximate cost for the installation of a permanent emergency generator is in the $450 per kW to $650 per kW range.

Permissible Use	Description of Permissible Use
Portable standby or back-up emergency generator (powered by *diesel*)	A small capacity diesel generator that is typically in the 5 kW to 10 kW range. The portable generator is brought to a site for use when the grid power is down. This could include a quick connect set up (aka a tap box and lockout unit). The generator must be operated as an emergency generator only as defined by NJDEP. Engines powering generators that comply with all applicable regulations (including installation of air pollution control equipment) can be permitted as regular generators allowing them to operate during periods other than defined emergencies. The approximate cost is in the $200 per kW to $450 per kW range.
Portable standby or back-up emergency generator (powered by *propane*)	A small capacity propane generator that is typically in the 5 kW to 10 kW range. The portable generator is brought to a site for use when the grid power is down. This could include a quick connect set up (aka a tap box and lockout unit). The generator must be operated as an emergency generator only as defined by NJDEP. Engines powering generators that comply with all applicable regulations (including installation of air pollution control equipment) can be permitted as regular generators allowing them to operate during periods other than defined emergencies. The approximate cost is in the $200 per kW to $450 per kW range.
Portable standby or back-up emergency generator (powered by *natural gas*)	A small capacity natural gas generator that is typically in the 5 kW to 10 kW range. The portable generator is brought to a site for use when the grid power is down. This could include a quick connect set up (aka a tap box and lockout unit). The generator must be operated as an emergency generator only as defined by NJDEP. Engines powering generators that comply with all applicable regulations (including installation of air pollution control equipment) can be permitted as regular generators allowing them to operate during periods other than defined emergencies. The approximate cost is in the $200 per kW to $450 per kW range.
Portable standby or back-up emergency generator (powered by *combination of sources or dual/trifuels*)	A small capacity dual/tri fuel generator that is typically in the 5 kW to 10 kW range. The portable generator is brought to a site for use when the grid power is down. This could include a quick connect set up (aka a tap box and lockout unit). The generator must be operated as an emergency generator only as defined by NJDEP. Engines powering generators that comply with all applicable regulations (including installation of air pollution control equipment) can be permitted as regular generators allowing them to operate during periods other than defined emergencies. The approximate cost is in the $200 per kW to $450 per kW range.
Solar generator	A small capacity solar generator that is typically in the 2 kW to 10 kW range. The portable generator is brought to a site for use when the grid power is down. This could include a quick connect set up (aka a tap box and lockout unit). No NJDEP air permit is required for this generator. This is a new technology and prices are provided on request.
Solar and diesel/gas hybrid generator	A small to mid-size capacity solar and diesel/gas hybrid generator that is typically in the 2 kW to 20 kW range. The portable generator is brought to a site for use when grid power is down. This could include a quick connect set up (i.e., a tap box and lockout unit). The generator must be operated as an emergency generator only as defined by NJDEP.
Quick Connect or Tap Box	Quick connects or tap boxes are devices that are installed in a building that allow for the installation of an emergency portable generator. These are permanent units that are installed outside the building and pass through the building. They connect to the building electric panel and ultimately the building electrical system. These devices readily allow a building to be powered by an emergency generator. The approximate cost is in the $100 per kW range.

Permissible Use	Description of Permissible Use
Off-grid inverter and backup battery storage for a facility with existing solar	There are currently 776 solar photovoltaic (PV) systems on public facilities including state, county, and municipal buildings in New Jersey. This is over 170 MW of installed solar PV capacity that produces over 204,000,000 kWh of electricity per year. Solar PV converts sunlight into electricity through solar panels. The direct current (DC) electricity generated must be converted to alternating current (AC) by an inverter to be used in plugs and lighting in buildings. Inverters typically shut down when a grid power outage is detected. This is a safety feature that is required by code to prevent electricity from feeding onto the grid during an outage, to allow work to be conducted on the grid. However, with the right equipment, including the appropriate transfer switches for critical loads, solar PV with backup battery storage can be disconnected from the grid, and supply power locally when there is a grid power outage. This system, which is a quieter and cleaner form of energy generation, could be an alternative to supplement or replace an emergency generator. A hybrid option is possible to link the existing PV solar system with the permanent or portable generator. This can extend the fuel liquid availability of the permanent or portable generator. This will require a transfer switch and wiring for all critical loads and a lock box. The approximate cost for the off grid inverter and backup batteries is in the range or $1,500 to $2,500 per kW depending on the cycle time to recharge and discharge the batteries and the overall time to provide stored electricity. The longer the timeframe to provide storage the higher the cost. This technology would require a detailed engineering study and design.
Feasibility Study –Distributed Energy Resources	This option is an energy study of a facility to determine the feasibility of designing, installing, and operating a distributed energy resource (DER) system at the facility as opposed to (or in addition to) just installing an emergency backup generator. DERs are any energy systems, equipment, or processes that are small, modular, and decentralized to provide onsite power as opposed to the customer obtaining power from the grid from larger, centralized power plants. DER systems are on-site energy systems connected on the customer's side of the meter as opposed to the utility's side of the meter. DER can include a complete energy package that includes demand response (DR), energy efficiency (EE), and distributive generation (DG). DER can be either grid-connected or off-grid energy systems located in or near the place where customers require energy. . A component of DER is distributive generation (DG) or on-site generation. DG is only the generation portion of DER without the DR and EE. DG generates power onsite at the point-of-use of the power as opposed to at large centralized facilities. The DG facility can generate both electricity and useful thermal energy for heating and cooling. Some typical DG systems are combined heat and power (CHP), fuel cells, microturbines, wind, solar photovoltaics (PV), and wind/solar with backup storage. The typical CHP system is powered by an engine or a turbine but can include any DG energy system. The NJBPU provides a no-cost energy audit through the New Jersey Clean Energy Program (NJCEP) in the Local Government Energy Audit program. This energy audit could provide a high level assessment of the applicability of a DER option for the local government facility. The typical cost for an energy audit at a municipal facility is in the $5,000 range. However, an engineering design evaluation would be required to determine the feasibility of the facility for any DER option. The approximate cost for a DER feasibility study is in the $10,000 to $60,000 range, and varies widely depending on the size of the facility and other factors.

Combined Heat and Power (CHP)	The NJBPU has provided rebates to 23 combined heat and power (CHP) natural-gas-fired facilities for over 85 MW and to 11 renewable biogas-fired energy CHP facilities for over 5.3 MW. CHP generates both electricity and useful thermal energy. Useful thermal energy can heat or contribute to process loads within a facility. The fuel used to power a CHP system is typically natural gas, but can also be a renewable fuel such as biogas from landfills or wastewater treatment facilities. In order for CHP to be cost effective the facility must have a use for heating processes throughout the year. Installing a CHP system instead of a back-up generator may reduce operating costs year-round and improve resiliency during disaster events. Typical sizes for CHP units range from 10 kW to 20 MW. The approximate cost for a natural gas fired CHP system is in the range of $2,000 to $3,000 per kW. A NJDEP permit is required, but systems under 3 MW using conventional fuels can obtain a general air permit. This technology would require a detailed engineering study and design. Adding islanding capabilities in order to operate as a microgrid could add 10% to 30% to the overall cost. Additional incentives may be available to pursue this type of technology.
Fuel Cells	The NJBPU has provided rebates to 8 fuel cell facilities powered by natural-gas-fired facilities for 1.5 MW. A fuel cell is a device that converts the chemical energy from a fuel into electricity through a chemical reaction with oxygen or another oxidizing agent. Hydrogen powers the fuel cell and a common source of hydrogen is natural gas or renewable biogases. Fuel cells are different from batteries in that they require a constant source of fuel and oxygen from the air to sustain the chemical reaction. However, fuel cells can produce electricity continually for as long as the fuel and oxygen are supplied. They are extremely quiet sources of energy and have almost zero air emissions. The approximate cost for a natural-gas-fired fuel cell is in the range of $4,000 to $7,000 per kW. Systems under 500 kW and powered by natural gas can receive an air permit by rule. This technology would require a detailed engineering study and design. Adding islanding capabilities in order to operate as a microgrid could add $200 to $1,000 per kW to the overall cost. Additional incentives may be available to pursue this type of technology.
Retrofitting existing construction to connect building to "microgrid"	A microgrid is a group of interconnected electrical loads and distributed energy resources (DER) with clearly defined electrical boundaries that acts as a single controllable entity with respect to the electric distribution or transmission grid. A microgrid can connect and disconnect from the grid to enable it to operate in either "grid connected" or "island mode." Island mode means that a site can operate independent of the larger grid system. DER systems can be designed and constructed to operate independent of and isolated from the distribution grid (island mode). Examples are an emergency backup generator with a transfer switch; a solar PV system equipped with a dynamic inverter and transfer switch; a CHP system; and/or a fuel cell. If designed to be islanded, these energy systems can power the facility during and after a storm or other event if there is a grid outage for any period of time. The cost to have a distributed generator such as CHP, or a fuel cell, operating isolated from and independent from the grid in island mode as a microgrid, is relatively small if included in the new design of a new facility. Retrofitting an existing building and existing generator system could approximately cost in the $1,000 per kW range.
Connecting to an existing on-site solar, fuel cell, or CHP generator for emergency or continuous power	A local government customer may connect to an existing on-site solar, fuel cell or CHP generator as an end-use customer of the existing solar, fuel cell or CHP generator provided they are located on the same property or contiguous to the existing generator. The additional end use customer would be contiguous if they were geographically located next to each other or are separated by a street, road, or right of way. The additional end use customer, in this case, would be considered part of the site and not a public utility. The onsite generator and additional end-use customer must maintain the one-call notification and reporting system requirements. This technology would require a detailed engineering study and design. The cost would depend on the overall power needs of the end use customer and the availability of additional power from the on-site generator.
Other Innovative Uses to Support Energy Resilience	Other available technologies may be appropriate for consideration and should be identified to the NJ Office of Emergency Management for consideration by the State.

Special note regarding energy technologies and solutions: Before purchasing any equipment powered by natural gas, the applicant is advised to contact the local gas utility to determine if there is access to natural gas at the appropriate pressure. Before purchasing any electric generating equipment, the applicant should contact the local electric utility to determine if any interconnection review is required. Before purchasing any equipment, the applicant should contact their local code officials to determine the appropriate building code requirements. Other permitting and FEMA/State restrictions may also apply.

APPENDIX C
Energy Allocation Initiative
Information Seminars

Attendance at one of the three below-listed seminars is a required condition to receive an energy allocation through the Energy Allocation Initiative. Technical information regarding resilient energy technologies will also be available through the registration website.

Please register online at http://www.sustainablejersey.com/index.php?id=305. Pre-registration is required for each person attending. The **deadline for registration is 5:00pm on Thursday, October 24, 2013**, but earlier registration is strongly encouraged in order to guarantee a place at the desired seminar. Questions regarding the seminars may be addressed to Sustainable Jersey by phone (609-771-2938), or email (info@sustainablejersey.com).

HMGP Energy Allocation Initiative Information Seminars		
Southern New Jersey	Mon., October 28, 2013 8:30am to 12:00pm (registration begins at 8:30am; program begins at 9:00am)	Richard Stockton College Campus Center, Event Room 101 Vera King Farris Drive Galloway, New Jersey 08205
Central New Jersey	Wed., October 30, 2013 8:30am to 12:00pm (registration begins at 8:30am; program begins at 9:00am)	Duke Farms Orientation Center (Education Building) 1112 Duke Parkway West Hillsborough, New Jersey 08844
Northern New Jersey	Thurs., October 31, 2013 8:30am to 12:00pm (registration begins at 8:30am; program begins at 9:00am)	New Jersey Institute of Technology School of Architecture, Weston Hall AIA Room and Elly's Loft 141 Summit Street Newark, New Jersey 07103

Topics to be addressed will include:

- Resilient Energy Technology Solutions that Can Be Considered as Part of the Energy Allocation Initiative
- Other Available Sources of Funding for Resilient Energy Projects
- Overview of Permitting and Other Environmental Requirements
- Application Process (Including Timeline and Discussion of Requirements and Restrictions) for Accessing HMGP Energy Allocation Funds

Co-Sponsored by:

APPENDIX A (continued)
U.S. Department of Energy's National Renewable Energy Laboratory's Analysis for Hoboken

Facility Identifying Information (Provided in Survey)							Potential Energy Solutions Specific to Facility								
Jurisdiction / Entity	Facility Address	Facility Type	Facility Type (Other)	Electrical Baseload	Peak Electrical Load	Thermal Baseload	Energy Storage[1]	CHP[2]	Microgrid Controls[3]	Fuel Cells[4]	Tri-Gen[5]	Combined Cycle[6]	Solar[7]	Energy Efficiency[8]	Diesel / Natural Gas Back-up Generators[9]
Hoboken	94 Washington St. Hoboken NJ, 07030	Communications/ Dispatch/Fire/Police	City Hall/Emergency Operations Center						Microgrid Controls				Solar	Energy Efficiency	
Hoboken	106 Hudson St. Hoboken NJ 07030	Communications/ Dispatch/Fire/Police	Police Department Headquarters						Microgrid Controls				Solar	Energy Efficiency	
Hoboken	501 Observer Boulevard Hoboken, NJ 07030	Communications/ Dispatch/Fire/Police	Fire Station											Energy Efficiency	Diesel Natural Gas Back-up Generator
Hoboken	801 Clinton St. Hoboken, NJ 07030	Communications/ Dispatch/Fire/Police	Fire Station						Microgrid Controls				Solar	Energy Efficiency	
Hoboken	NHSA - 1600 Adams Street, Hoboken, NJ	Waste Water Treatment							Microgrid Controls					Energy Efficiency	
Hoboken	124 Grand Street Hoboken NJ 07030	Community Center	Community Center						Microgrid Controls				Solar	Energy Efficiency	
Hoboken	Stevens Institute of Technology 1 Castle Point Terrace Hoboken, NJ 07030	Communications												Energy Efficiency	Diesel Natural Gas Back-up Generator

Hoboken	201 Jefferson St. Hoboken NJ 07030	Communications/ Dispatch/Fire/Police	Fire Department Headquarters											Energy Efficiency	Diesel Natural Gas Back-up Generator
Hoboken	5 Marineview Plaza, Hoboken NJ 07030	Communications												Energy Efficiency	Diesel Natural Gas Back-up Generator
Hoboken	256 Observer Highway Hoboken, NJ 07030	Office Building	Public Works Garage						Microgrid Controls				Solar	Energy Efficiency	
Hoboken	1313 Washington St. Hoboken NJ 07030	Communications/ Dispatch/Fire/Police	Fire Station											Energy Efficiency	Diesel Natural Gas Back-up Generator
Hoboken	1100 Willow Avenue Hoboken, NJ 07030	School	Community Shelter											Energy Efficiency	Diesel Natural Gas Back-up Generator
Hoboken	94 Washington St. Hoboken, NJ 07030	Office Building	City Hall											Energy Efficiency	Diesel Natural Gas Back-up Generator

[1] **Energy Storage:** Energy storage can be used to increase the reliability of a facility by provided stored energy during outages, allowing for generator ramp-up time and providing continuous operation. Energy storage can be used to store electrical energy (e.g. batteries), thermal energy (e.g. ice storage), kinetic energy (e.g. flywheels), or potential energy (e.g. water towers).

Your site has been identified as a potential candidate for energy storage due to the high reliability target, high cost of downtime, and failures during Superstorm Sandy, or previous storms. The Hazard Mitigation Grant Program – Energy Allocation Initiative can potentially be used to support a feasibility study to determine the costs of designing an energy storage system and integrating it into existing or other recommended on-site alternative generation systems.

The NJ Board of Public Utilities in New Jersey's Clean Energy Program has established new programs to provide incentives for energy storage. More information on energy storage for renewable energy systems is available at http://www.njcleanenergy.com/renewable-energy/programs/energy-storage.

[2] **CHP**: CHP refers to "combined heat and power." CHP generates both electricity and useful thermal energy. Useful thermal energy can heat or contribute to process loads within a facility. The fuel used to power a CHP system is typically natural gas, but can also be a renewable fuel such as biogas from landfills or wastewater treatment facilities. In order for CHP to be cost effective, the facility must have a use for heating processes throughout the year. Based on the data entered into the questionnaire, your site has been identified as having a year-round thermal load (e.g., heating) and has area available for a CHP system, suggesting it may be a good candidate for these more resilient systems. Installing a CHP system instead of a back-up generator may reduce operating costs year-round and improve resiliency during disaster events.

It may interest you to know that the NJ Department of Environmental Protection (DEP) provides a general permit CHP plants fueled by natural gas, up to 3 MW in size. Using any other fuel or for CHP systems larger than 3 MW NJDEP requires a full air permit.

The NJ Board of Public Utilities in New Jersey's Clean Energy Program also provides rebates and incentives for CHP up to 40% of the project cost up to $3 million for projects up to the first 3 megawatts (MW). The size of the rebate depends on the CHP technology and the fuel used to power the CHP. More information is available on CHP rebates at http://www.njcleanenergy.com/commercial-industrial/programs/combined-heat-power/combined-heat-power-and-fuel-cells-1-mw.

[3] **Microgrid Controls**: A microgrid is any energy system designed to generate localized or on-site energy and operate independently of the larger power grid. Examples of these types of systems would include generators (engines, turbines, photovoltaics, fuel cells, etc.), dynamic inverters, automatic transfer switches, optional load shedding, automated controls, and other power electronics. If designed to be islanded, these energy systems can operate in parallel or independently to power the facility during and after a storm or other event if there is a grid outage for any period of time.

A sustainable microgrid produces fewer emissions than traditional grid power by pulling from renewable energy sources, reducing transmission distance, and using energy efficient strategies. There are many effective ways to integrate renewable energy and energy efficiency into a microgrid system. By using renewable generation and energy storage strategies, microgrid owners can decrease fuel inventories, add redundant fuel sources, and strengthen energy security during grid power outages. Often energy security is enhanced when energy storage is incorporated. Additionally, to ensure uninterrupted service to ongoing operations a site should plan for seamless transitions from one system to another.

The Hazard Mitigation Grant Program – Energy Allocation Initiative can potentially be used to assist in covering the cost of a microgrid feasibility study at your facility. NJ Board of Public Utility rebates are available for the controls to operate a microgrid through New Jersey's Clean Energy Program's CHP and fuel cell program at http://www.njcleanenergy.com/commercial-industrial/programs/combined-heat-power/combined-heat-power-and-fuel-cells-1-mw.

[4] **Fuel Cells**: A fuel cell is a device that converts the chemical energy from a fuel into electricity through a chemical reaction with oxygen or another oxidizing agent. Hydrogen powers the fuel cell and a common source of hydrogen is natural gas or renewable biogases. Fuel cells are different from batteries in that they require a constant source of fuel and oxygen from the air to sustain the chemical reaction. However, fuel cells can produce electricity continually for as long as the fuel and oxygen are supplied. They are extremely quiet sources of energy and have almost zero air emissions. The NJ Department of Environmental Protection (DEP) provides permits for any natural gas fuel cell under 500 kW.

Fuels cell can operate as a CHP with heat recovery or solely as a generator without heat recovery, depending of the fuel cell size and type. While fuel cells can be designed as part of a heat recovery system, Hazard Mitigation Grant Program – Energy Allocation Initiative funds are available for electricity only. It is possible that Hazard Mitigation Grant Program – Energy Allocation Initiative funds may be able to be used to support fuel cell technology and could be leveraged with other existing State incentives or financing programs to purchase larger fuel cells, if needed.

[5] **Tri-Gen**: Trigeneration, or combined cooling, heat and power (CCHP) refers to the simultaneous generation of electricity and useful thermal energy which is used to provide both heating and cooling to the facility. Trigeneration differs from combined heat and power (CHP) in that the waste heat is used for both heating and cooling, typically in a process similar to the types of refrigeration systems used in recreational vehicles, which do not require electricity. CCHP systems can attain higher overall efficiencies than traditional power plants and can also be designed to provide heating and cooling at the same time or alternately, depending on needs at the facility.

Your site has been identified as a potential candidate for tri-generation based on your existing steam system, intermittent thermal load and high electrical demand. It is possible that Hazard Mitigation Grant Program – Energy Allocation Initiative funds may be able to be applied toward an engineering feasibility study to determine the costs of designing and constructing a tri-generation system, as well as the potential long-term energy and cost savings to your facility.

The NJ Board of Public Utilities in New Jersey's Clean Energy Program also provides rebates and incentives for fuel cell up to 40% of the project cost up to $3 million for projects up to the first 3 megawatts (MW). The size of the rebate depends on the fuel used to power the fuel cell. More information on fuel cell rebates is available at http://www.njcleanenergy.com/commercial-industrial/programs/combined-heat-power/combined-heat-power-and-fuel-cells-1-mw.

[6] **Combined Cycle**: Combined cycle uses the waste heat in the exhaust from a gas turbine generator as the source of heat for a lower-temperature steam cycle generator. Combined cycle systems are more efficient than typical systems and are a good alternative energy system for sites which have a fairly high electrical demand and little or no thermal demand.

Your site has been identified as a potential candidate for combined cycle technology based on your high electrical demand. It is possible that Hazard Mitigation Grant Program – Energy Allocation Initiative funds may be able to be applied towards an engineering feasibility study to determine the costs of designing and constructing a combined cycle system, as well as the potential long-term energy and cost savings to your facility.

[7] **Solar:** Solar energy can be converted into electricity using solar photovoltaic (PV) panels and inverters to convert the electricity from direct current (DC) power into alternating current (AC) power to be used in buildings. PV panels need to be mounted in unshaded locations such as rooftops, carports, and unused lands to be most effective. Besides the panels and inverters, a PV system can also consist of conductors/conduit, switches, disconnects, fuses, net meters, and back-up battery systems.

Your site has been identified as a potential candidate for either solar panels or for more robust controls on existing solar systems due to failures during Superstorm Sandy or previous storms. It is possible that Hazard Mitigation Grant Program – Energy Allocation Initiative funds may be able to be applied towards a feasibility study to determine the costs of designing a PV system, or towards incorporating more robust controls, such as dynamic inverters, load shedding controls, and automatic transfer switches to allow the PV panels to provide electricity during a storm or when the grid connection is lost. Inverters which can create their own 60hz signal ("off grid inverter" or "dual mode inverter") are needed to operate without grid power, as well as some amount of energy storage capability, such as batteries to stabilize the DC bus voltage and allow an "off grid" inverter to power the load.

While rebates are not available for solar system installation the NJ Board of Public Utilities does manage a solar renewable energy certificate (SREC) program that provides incentive for solar energy generated through a market system. In addition the solar energy customer generator can avoid the cost of their retail electric bill through net metering provisions. Further information on SREC incentives and net metering incentives can be found at http://www.njcleanenergy.com/renewable-energy/programs/solar-renewable-energy-certificates-srec/new-jersey-solar-renewable-energy.

[8] **Energy Efficiency**: Energy efficiency reduces load and can increase back-up generator runtime during outages. Energy efficiency is often the single-most cost effective way to reduce energy consumption within a building. It is recommended that energy efficiency measures be implemented prior to installing any power generating technology or back-up power generators. Reduced loads will result in smaller (less expensive) generators which can operate for longer durations during outages. In addition, energy efficiency improvements will lead to cost savings on monthly energy bills.

The NJ Board of Public Utilities (BPU), through its Clean Energy Program, can provide a no-cost energy assessment of facilities for energy savings and distributed generation. This would be a first step evaluation before the detailed engineering feasibility study for distribution generation. The Local Government Energy Audit Program targets buildings owned by local governments, New Jersey State Colleges and Universities, and 501 (c)(3) non-profit agencies. Such facilities may include, but are not limited to: offices, courtrooms, town halls, police and fire stations, sanitation buildings, transportation structures, schools and community centers. All local governments, New Jersey State Colleges or Universities, and non-profit agencies exempt from federal tax under section 501 (c)(3) of the Internal Revenue Code that are located within the service territory of at least one of the State's regulated utilities are eligible. Information on this free energy assessment is available at www.njcleanenergy.com/LGEA. In addition, there are a number of rebates and incentives that are available to help pay for the implementation of an energy efficiency measure. The Direct Install program provides up to 70% of the cost of installing energy efficiency measures for up to $75,000 per project. More information is available at http://www.njcleanenergy.com/commercial-industrial/home/home.

[9] **Diesel / Natural Gas Back-up Generators:** The most common backup generators used in emergencies are run off diesel fuel. If every facility in the State of New Jersey were provided with funds to purchase diesel generators, the noise levels and pollution throughout the state would significantly increase. Additionally, diesel generators are reliant on storage capacity and a high percentage of diesel generators failed during Superstorm Sandy due to the duration of outages and lack of access to diesel fuel. In order to alleviate the potential problems associated with an increase in diesel generators, it is possible that Hazard Mitigation Grant Program – Energy Allocation Initiative funds may be able to be applied to the purchase of dual fuel generators (e.g., natural gas and diesel or solar PV and diesel). According to the New Jersey Board of Public Utilities, natural gas distribution pipes are typically buried underground and were found to be more resilient than other energy distribution such as electrical lines, and liquid fuels (gasoline, diesel, etc.) during Superstorm Sandy. In addition, with a natural gas generator there is the potential to use the waste heat in the future for heating and cooling of the facility.

State of New Jersey
Hazard Mitigation Grant Program
Letter of Intent

Purchase and Installation of Emergency Back-up Generators (5% Initiative)

City of Hoboken, N.J.

March 22, 2013

State of New Jersey
Hazard Mitigation Grant Program
Letter of Intent

Project Summary	
1. Applicant:	City of Hoboken
2. County:	Hudson, New Jersey
3. a. Project Eligibility: Did the municipality participate in the Multi-Hazard Mitigation Planning Process?	☒ Yes ☐ No. If no, does the municipality have its own multi-Hazard mitigation plan? ☐ Yes ☐ No
b. Is the mitigation strategy identified in your MHMP?	☒ Yes ☐ No
4. a. Project Type:	☐ Flood Control ☐ Acquisition ☐ Elevation ☐ Planning ☒ Other**
b. Describe Other:	5% Initiative – Purchase and Installation of Permanent Emergency Back-up Generators
5. a. Primary Point of Contact:	Stephen D. Marks, PP, AICP, CFM, LEED GA
b. Title:	Assistant Business Administrator
c. Address:	94 Washington Street, Hoboken, N.J. 07030
d. Phone:	(201) 239-6643
e. Fax:	(201) 420-2096
f. Email:	smarks@hobokennj.org
6. Is the community a small and impoverished community as defined by the State Hazard Mitigation Plan (reference)?	☐ Yes ☒ No
7. a. Does your jurisdiction participate in the NFIP?	☒ Yes ☐ No
b. If so, does your jurisdiction participate in the Community Rating System (CRS)?	☐ Yes ☒ No

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8. a. Do you have Flood Insurance?			☐ Yes ☒ No
b. If so, is this a repetitive loss property?			☐ Yes ☒ No
9. Cost Estimates* *$1,777,000.00*	Total Grant Request: *$1,332,750.00*	*Local share: $444,250.00*	

*Cost estimates are rough estimates that are subject to change. Cost estimate sources can include but are not limited to RS Means, contractor estimates, historical data, etc.

10. Endorsement: I understand that the local share of project funding will be 25% of the total project cost and that we will contribute [x] all or [ ] seek funding elsewhere for the matching share of the mitigation project.

Signed: Dem Jim Date: 3/22/13

Title: Mayor

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Municipality Letter of Intent Instructions
1. **Applicant** - The applicant is a Municipality, Borough, City, Township or Private Non-Profit. *Municipality -- City of Hoboken*
2. **County** - The name of the County the project is located in. *County of Hudson*
3. **Project Eligibility** – a. You are an eligible applicant if you, participated in a Multi-Hazard Mitigation Plan (MHMP). *Yes. (see attached resolution)* b. Please state if the project is identified as a mitigation action in the MHMP. *Yes. (see Hudson County All HMP initiatives: CH-18 on page 9.6-10* *CH-14 on page 9.6.9* *CH-16 on page 9.6.9*
4. **Project Type** – (Please provide a brief description of the project, attach form if needed) a. Identify mitigation project type *(5% Initiative – Purchase of Permanently Installed Generators)* b. See page one for examples of other eligible mitigation projects
5. **List contact information for the primary point of contact.** *Stephen D. Marks, Assistant Business Administrator* *City of Hoboken* *94 Washington Street* *Hoboken, N.J. 07030*
6. **Check yes or no if this community is identified as impoverished.** *No.*
7. a. Identify whether or not your community participate in the National Flood Insurance Program NFIP. http://www.fema.gov/national-flood-insurance-program/national-flood-insurance-program-community-status-book *Yes.* b. To verify if you community participate in CRS use the link below. http://www.fema.gov/sites/default/files/orig/fema_pdfs/pdf/nfip/manual201105/content/19_crs.pdf *No.*

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8. a. If the sub-applicant has flood insurance please check the box b. Check box if the property is a repetitive loss property
9. Give an estimate of the project cost: ***The engineer's estimate for the purchase and installation of permanent emergency back-up generators for critical community facilities is approximately $1,777,000.00.***
10. Endorsement – The cost share is 75% FEMA and 25% Applicant. The cost share can be in the form of in-kind or cash. Check if you will contribute all or seek funding elsewhere and sign. ***The City of Hoboken will provide the 25% local match through either an in-kind (i.e. engineering services, design, construction administration and inspection) or cash.***

Background

The City of Hoboken is located in Hudson County, New Jersey immediately across the Hudson River from mid-town Manhattan (New York City). According to the 2012 U.S. Decennial Census, the municipality has a population of 50,005 residents. There are 25,041 occupied households in the 1.275 square mile city. This includes over 12,000 condominium units mostly located in mid to high-rise mixed-use and residential buildings.

The city is bounded to the east by the Hudson River and the Upper New York Bay. To the south is New Jersey Transit's Hoboken Rail Yard and the "Downtown" neighborhood of Jersey City, N.J. with Route 78 and the Holland Tunnel. Immediately to the west are the Palisades cliffs, the "Heights" neighborhood of Jersey City, N.J. and the City of Union City, N.J. To the north is the Township of Weehawken with the Route 495 "Helix" leading to the Lincoln Tunnel.

Hundreds of years ago, Hoboken's "Castle Point" was an island outcrop surrounded by tidal wetlands until it was filled and developed by the first Europeans. The area was settled by Dutch and English colonist between 1633 and 1645. It became a self-governing township in 1849 and was incorporated as a city in 1855. Its grid-like roadway system was laid out in the early 1800s and its sewer system was constructed in the 1880s which still services the city to this day.

Topographically, the city resembles a bowl with higher elevations occurring along Castle Point and the Hudson River to the east and the Palisades Cliffs to the west. To the north and south

are man-made structures including the Hoboken Rail Yards and the Hudson Bergen Light Rail tracks and embankment which are built at higher elevations than the center of the city.

Hurricane Sandy

On October 27, 2012 Governor Chris Christie declared a State of Emergency for the State of New Jersey in advance of Hurricane Sandy. On October 28, 2012 President Barack Obama issued an Emergency Declaration for the State of New Jersey and the City of Hoboken issued a mandatory evacuation order for the occupants of all ground level housing units. On October 29, 2012 at approximately 8:45 p.m. an estimated five-hundred-million (500,000,000) gallons of water from the Hudson River breached the shoreline and flooded the central and western portions of the city.

After the storm surge, all three electrical substations in Hoboken were flooded and most homes and businesses in the city lost electrical power. Critical community facilities were flooded and severely damaged, including the Hoboken University Medical Center ("HUMC"), three out of four of Hoboken's Fire Houses, the city's Department of Public Works ("DPW") garage and the city's Multi-Service Center which houses public health, social service, nutritional and recreation programs for elderly, disabled and low-income residents.

In all, it is estimated that over 1,750 ground level households and businesses were severely flooded. It took nearly 5 days for the waters to recede throughout the city and over a week for electricity to return to the more than 21,000 accounts that were without power. The Fire Department did not return to its damaged headquarters or fire stations for 10 days. It took over a month for the municipal DPW garage to be operational and the city's Multi-Service Center is still out of service.

Scope of Work

- **Purpose of project:** The City of Hoboken wishes to purchase and install natural gas fed permanent back-up generators for critical community facilities to deliver emergency and municipal services, without interruption, during power outages or disaster events. The project is consistent with the Hudson County All Hazards Mitigation Plan.

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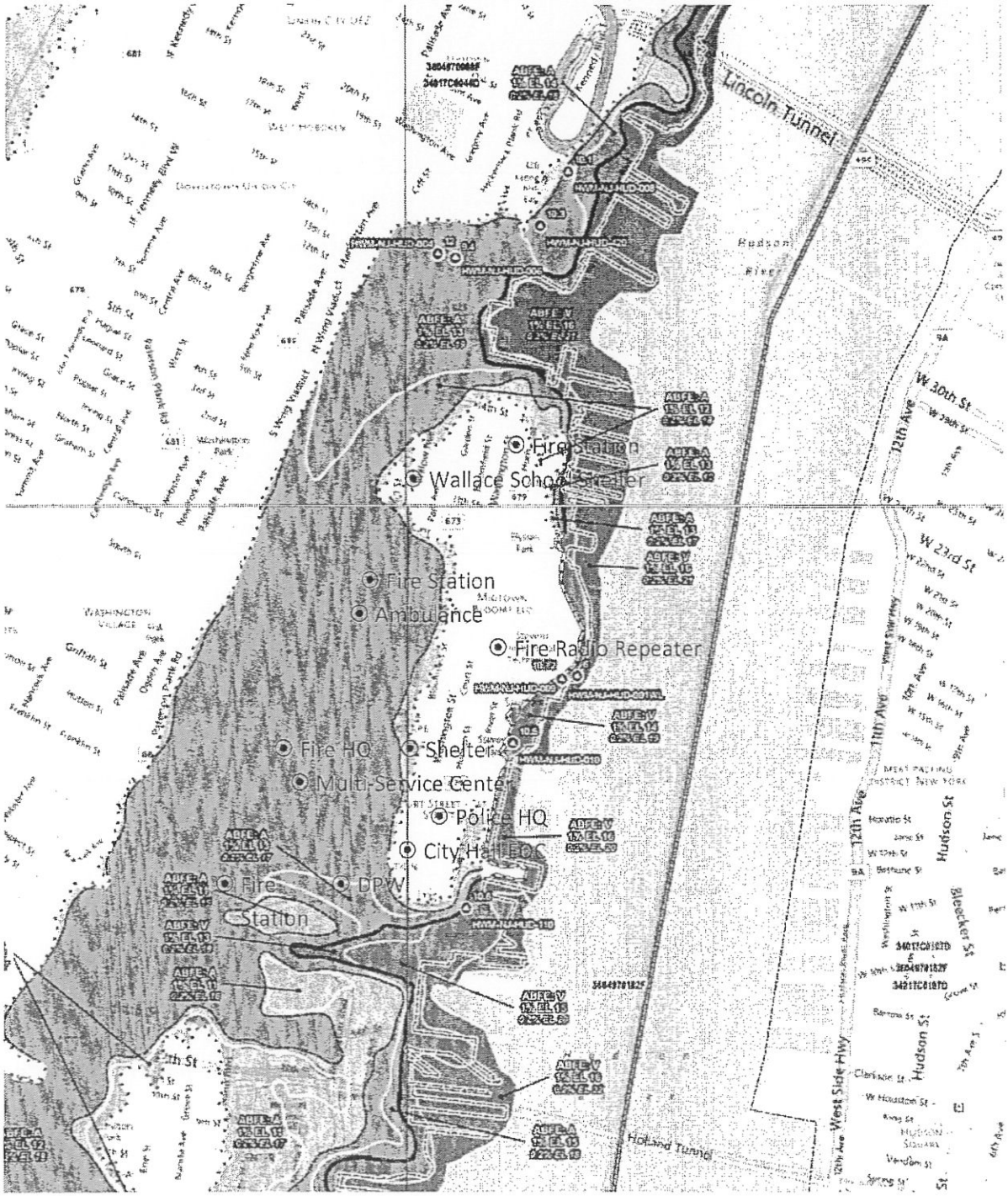

Figure 1 - Advisory Base Flood Elevation Map "ABFE" of Hoboken with approximate location of critical community facilities.

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- **Clear, concise description of the proposed project:** The City of Hoboken wishes to install permanent back-up emergency generators at critical community facilities. The city will work with its municipal engineers to install natural-gas fed generators above the Base Flood Elevation ("BFE") at each location.

- **Identification of properties to be mitigated:**
  - Ambulance Squad, 707 Clinton St.;
  - City Hall/Emergency Operations Center, 94 Washington Street;
  - Fire Department Headquarters, 201 Jefferson Street;
  - Fire Department Radio Repeater, Stevens Institute of Technology
  - Fire Station, 1313 Washington St.;
  - Fire Station, 801 Clinton St.;
  - Fire Station, 501 Observer Highway;
  - Hoboken Shelter, 300 Bloomfield St.
  - Multi-Service Center, 124 Grand St.;
  - Police Department Headquarters, 106 Hudson St.;
  - Police Department Radio Repeater, 5 Marineview Plaza
  - Public Works Garage, 256 Observer Highway; and
  - Wallace School Shelter, 1100 Willow Ave.

- **Outcomes:** After the installation of the permanent emergency back-up generators, Hoboken's critical community facilities will be able to function, operate and deliver important emergency and municipal services through power outages and disaster events. The entire city of 50,000 residents will benefit through the un-interrupted delivery of necessary services during disasters.

- **Identification of the hazards to be addressed:** The City of Hoboken suffered a tremendous blow not just from the flooding that Hurricane Sandy brought, but the widespread power outages which persisted for over a week after the storm. Police, fire and other emergency and municipal services related to rescue and recovery were severely hampered by the lack of electrical power. Installation of permanent emergency back-up generators will allow emergency first responders and recovery operations to function through any power outage.

- **Location within the community and/or geographic extent of the project:** Hoboken's critical community facilities are spread-out throughout the city. The entire city is a densely populated urban landscape characterized by mid-rise and high-rise residential buildings. Many buildings are mixed-use with ground level retail establishments.

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Ambulance Squad, 707 Clinton St.; Longitude: (40°44'45.14"N); Latitude: (74° 1'58.67"W)
City Hall/EOC, 94 Washington St.; Longitude: (40°44'14.10"N); Latitude: (74° 1'53.23"W)
Fire Dept. HQ, 201 Jefferson St.; Longitude: (40°44'24.52"N); Latitude: (74° 2'15.76"W)
Fire Dept. Radio, Stevens Institute; Longitude: (40°44'33.93"N); Latitude: (74° 1'38.82"W)
Fire Station, 1313 Washington St.; Longitude: (40°45'10.03"N); Latitude: (74° 1'33.30"W)
Fire Station, 801 Clinton St.; Longitude: (40°44'48.88"N); Latitude: (74° 1'57.62"W)
Fire Station, 501 Observer Highway; Longitude: (40°44'13.05"N); Latitude: (74° 2'22.73"W)
Hoboken Shelter, 300 Bloomfield St. Longitude: (40°44'25.15"N); Latitude: (74° 1'52.66"W)
Multi-Service Center, 124 Grand St.; Longitude: (40°44'21.93"N); Latitude: (74° 2'11.32"W)
Police Dept. HQ, 106 Hudson St.; Longitude: (40°44'15.88"N); Latitude: (74° 1'47.94"W)
Police Dept. Radio, 5 Marineview Plaza; Longitude: (40°44'14.96"N); Latitude: (74° 1'45.55"W)
DPW Garage, 256 Observer Highway; Longitude: (40°44'11.10"N); Latitude: (74° 2'4.12"W)
Wallace School shelter, 1100 Willow Ave. Longitude: (40°45'4.06"N); Latitude (74° 1'51.59"W)

- **Feasibility and effectiveness:** The City of Hoboken will commission licensed professional engineers to design permanent emergency back-up generators above the base flood elevation ("BFE") for each respective facility. Exhibit C-1 is an engineer's cost estimate from Boswell Engineering detailing which type of generator is appropriate for each facility based upon size and type of use.

- **Alternatives considered:** Approximately 1,750 ground level housing units were flooded during Hurricane Sandy. All three electrical substations were flooded and severely damaged during the disaster causing power losses to over 20,000 households.

  1. The city has considered requesting "Blue Acres" funds from the State of New Jersey to buy-out ground level housing units in the flood hazard area. According to the 2010 U.S. Decennial Census, the median household value in Hoboken was approximately $567,700. It would cost $992,250,000 to buy-out these homes.

  2. The city is actively considering designing and installing a floodwall system to keep future storm-surges from breaching the coastline and penetrating the city. The approximate cost of such a system is over $44,000,000.

  3. The city has applied for $60,000,000 to acquire open space which can be utilized for minor flood reduction projects to reduce stormwater run-off and area flooding.

4. The city has considered requesting funding on behalf of the 1,750 flooded homeowners for the increased cost of compliance ("ICC"). If each of the households were to receive $30,000 to floodproof their homes, it would cost $52,500,000.

5. The city is supporting the HMGP request for $20,000,000 to install four wet weather pump station in Hoboken to reduce local flooding.

6. The city is actively considering the installation of stormwater retention system improvements through "Green Infrastructure" (i.e. green roofs, cisterns, rain gardens, tree pits, porous pavers, etc.) to reduce run-off and flooding. In fact, the city is submitting an HMGP Letter of Intent to make stormwater improvements at city hall and at key intersections around the city. This effort will require a comprehensive citywide approach to make a significant improvement.

- **Environmental and Cultural Resources consideration:** The permanent emergency back-up generators will be installed on existing municipal buildings and community facilities. It is not anticipated that the generators will adversely impact cultural or environmental resources. The city will use the U.S. Secretary of the Interior's guidelines for historic sites for those resources which are considered historic.

- **Maintenance assurances:** The City of Hoboken will take full responsibility for the operation and maintenance of the newly installed emergency back-up generators.

- **Special project components:** The City of Hoboken will utilize standard natural-gas fed generators which are commonly used for critical infrastructure.

- **Other projects:** There are no other projects which are currently being implemented that would affect the proposed project.

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EXHIBITS

- COH-1: Hoboken City Council Resolution Adopting the Hudson County Multi-Jurisdictional Multi-Hazards Mitigation Plan, approved on January 16, 2013.
- COH-2: Boswell Engineering Estimate for Permanent Back-up Generators.

Introduced by: _____
Seconded by: _____

CITY OF HOBOKEN
RESOLUTION NO. _____

RESOLUTION AUTHORIZING THE ADOPTION OF THE HUDSON COUNTY MULTI-JURISDICTIONAL MULTI-HAZARDOUS MITIGATION PLAN

WHEREAS, all of Hudson County has exposure to natural hazards that increase the risk to life, property and environment and the County's economy; and

WHEREAS, pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre- and post-disaster hazard mitigation programs; and

WHEREAS, a coalition of Hudson County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Hudson County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerabilities to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Hoboken that the City of Hoboken agrees to the following:

1. Adopts in its entirety, Volume I; Volume II, Section 8, the City of Hoboken jurisdictional annex (Section 9.6) and appendices of Volume II of the Hudson County Multi-Jurisdictional Multi-Hazard Mitigation Plan (the "Plan").

2. Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.

3. Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.

4. Will continue its support of the Mitigation Planning Committee as described within the Plan.

5. Will help to promote and support to mitigation successes of all participants in this Plan.

6. Will incorporate mitigation planning as an integral component of government and partner operations.

Date of Meeting: January 16, 2013

Reviewed:

Quentin Wiest
Business Administrator

Approved as to Form:

Mellissa L. Longo, Esq.
Corporation Counsel

Councilperson	Yea	Nay	Abstain	~~No Vote~~ Absent
Ravi Bhalla	✓			
Theresa Castellano	✓			
Jen Giattino	✓			
Elizabeth Mason				✓
David Mello	✓			
Tim Occhipinti	✓			
Michael Russo	✓			
President Peter Cunningham	✓			

A TRUE COPY OF A RESOLUTION ADOPTED BY THE COUNCIL OF THE CITY OF HOBOKEN, N.J. AT A MEETING HELD ON: JAN 16 2013

CITY CLERK

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE - SOUTH HACKENSACK, NJ 07606
PRELIMINARY COST ESTIMATE

Project:	Emergency Equipment - Natural Gas Generators	Job No:	HO-478
Municipality:	City of Hoboken		
County:	Hudson County	Date:	2/1/2013
Calculated by:	REM	Revised:	3/22/2013
Checked by:	JAP		

Note: All generators proposed below are natural gas generators

Item #	Description	Unit	Plan Quantity	If & Where Directed	Total Quantity	Unit Cost	Total Cost
1	200kW Backup Generator - City Hall	Unit	1		1	$175,000.00	$ 175,000.00
2	200 kW Backup Generator - Police Headquarters	Unit	1		1	$175,000.00	$ 175,000.00
3	100 kW Backup Generator - Fire Dept. Headquarters	Unit	1		1	$125,000.00	$ 125,000.00
4	75 kW Backup Generator - Fire Dept. Ladder Co. 1	Unit	1		1	$90,000.00	$ 90,000.00
5	75 kW Backup Generator - Fire Dept. Ladder Co. 2	Unit	1		1	$90,000.00	$ 90,000.00
6	75 kW Backup Generator - Rescue Company 1	Unit	1		1	$90,000.00	$ 90,000.00
7	75 kW Backup Generator - Public Works Facility	Unit	1		1	$90,000.00	$ 90,000.00
8	300kW Backup Generator - Multi-Service Center	Unit	1		1	$250,000.00	$ 250,000.00
9	50kW Backup Generator - Radio Repeater*	Unit	2		2	$60,000.00	$ 120,000.00
10	75kW Backup Generator - Hoboken Ambulance Squad	Unit	1		1	$90,000.00	$ 90,000.00
11	100kW Backup Generator - Hoboken Shelter	Unit	1		1	$125,000.00	$ 125,000.00
12	100kW Backup Generator -Wallace School	Unit	1		1	$125,000.00	$ 125,000.00

Subtotal:	$ 1,545,000.00
SAY:	$ 1,545,000.00
+15% Contingency:	$ 232,000.00
TOTAL:	$ 1,777,000.00

*Police Department radio repeater on roof of Marineview Plaza; Fire Department radio repeater on roof of Stevens Institute of Technology

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Introduced by: _____
Seconded by: _____

CITY OF HOBOKEN
RESOLUTION NO. :____

RESOLUTION TO AUTHORIZE A SERVICE, LABOR AND PARTS CONTRACT WITH STANDARD ELEVATOR AS ELEVATOR MACHINE REPAIR CONTRACTOR AT 124 GRAND STREET (JACK REPAIR) TO THE CITY OF HOBOKEN TO COMMENCE APRIL 17, 2014 AND EXPIRE UPON COMPLETION OF THE PROJECT, BUT IN NO EVENT LATER THAN APRIL 16, 2015 WITH A NOT TO EXCEED AMOUNT OF TWENTY FOUR THOUSAND NINE HUNDRED TEN DOLLARS AND 50/100.

WHEREAS, service to the City as elevator repair contractor is a service contract, with parts and labor costs included, which would otherwise be subject to public bidding, but for the fact that the proposals are below the bid threshold; and,

WHEREAS, because the costs placed the contract within the Fair and Open Process, quotations were requested, and two valid quotes/proposals were received for the elevator repair at 124 Grand Street; and,

WHEREAS, the Administration advises a contract be entered into with Standard Elevator, the lower cost quotation, for a term to commence on April 17, 2014 and expire upon completion on the project, but in no event later than April 16, 2015, with a not to exceed amount of $24,910.50; and,

WHEREAS, Standard Elevator is hereby required to continue to abide by the "pay-to-play" requirements of the Hoboken Public Contracting Reform Ordinance, codified as §20A-11 et seq. of the Administrative Code of the City of Hoboken as well as the Affirmative Action laws and policies under which the City operates; and,

WHEREAS, certification of funds is available as follows:

I, George DeStefano, Chief Financial Officer of the City of Hoboken, hereby certify that $24,910.50 is available in the following appropriations G-55-56-CD2-301 **in the CY2014 capital budget; and I further certify that this commitment together with all previously made commitments does not exceed the appropriation balance available for this purpose for the CY2014 budget.**

Signed: _____ **George DeStefano, CFO**

NOW THEREFORE, BE IT RESOLVED, that a contract with Standard Elevator to provide the City with elevator repair service at 124 Grand Street, in accordance with the attached 3/19/14 Proposal #14220, for a term to commence April 17, 2014 and expire upon completion of the project, but in no event later than April 16, 2015, with a total not to exceed amount of Twenty Four Thousand Nine Hundred Ten Dollars and 50/100 ($24,910.50); and

BE IT FURTHER RESOLVED that the City Council of the City of Hoboken specifically finds that compliance with Hoboken Ordinance #DR-154 (codified as §20A-4 of the Code of the City of Hoboken), and any and all state Pay to Play laws, is a continuing obligation of **the vendor**; and

BE IT FURTHER RESOLVED the City Clerk shall publish this resolution as required by law and keep a copy of the resulting contract on file in accordance with N.J.S.A. 40A:11-1 et seq.; and,

BE IT FURTHER RESOLVED that a certified copy of this resolution shall be provided to Mayor Dawn Zimmer and Corporation Counsel for action in accordance therewith and to take any other actions necessary to complete and realize the intent and purpose of this resolution; and,

BE IT FURTHER RESOLVED that this resolution shall take effect immediately.

Standard Elevator
68 Union Avenue
PO Box 2204
Clifton, New Jersey 07015

Dated: April 16, 2014

Reviewed:

Quentin Wiest
Business Administrator

Approved as to form:

Mellissa Longo, Esq.
Corporation Counsel

Councilperson	Yea	Nay	Abstain	No Vote
Ravi Bhalla	✓			
Theresa Castellano	✓			
Peter Cunningham	✓			
James Doyle	✓			
Elizabeth Mason	✓			
David Mello	✓			
Tim Occhipinti	✓			
Michael Russo	✓			
Council President Jen Giattino	✓			

A TRUE COPY OF A RESOLUTION ADOPTED BY THE COUNCIL OF THE CITY OF HOBOKEN, N.J. AT A MEETING HELD ON: APR 1 6 2014

CITY CLERK

Budget Account Maintenance

Add | Edit | Close | Delete | << | >> | Detail

Account: G-55-56-CD2-301

Desc: Multi Service Center Improve

Acct Type: Sub

Chk Acct: ICDBG2818

Cap Flag:

Fund Type: Grant

Class Id:

Class Id 2:

Activity | Misc | G/L Accounts

Activity To Date				Current Period	
Encumber:	110,635.50	Budgeted:	275,000.00	Expended:	475.00
Expended:	129,141.04	Balance:	35,223.46	Trans-In:	.00
Trans-In:	.00			Trans-Out:	.00
Trans-Out:	.00	YTD Requested:	.00	Reimburse:	.00
Reimburse:	.00	Requested Balance:	35,223.46		
Cancel:	.00				

Control Balance: 62,223.46 Control Requested Balance: 62,223.46

5

Introduced by: _____
Seconded by: _____

CITY OF HOBOKEN
RESOLUTION NO. :___

RESOLUTION TO AUTHORIZE A PURCHASE AND SALES AGREEMENT WITH MARANO AND SONS FOR ONE JEEP WRANGLER FOR THE CITY OF HOBOKEN HPU, FOR A TOTAL NOT TO EXCEED AMOUNT OF $24,500.00

WHEREAS, purchases under the bid threshold ($36,000.00) by N.J.S.A. 40A:11-1 et seq. are exempt from public bidding requirement, in favor of the quote system if the amount of the contract award is between $5,400.00 and $36,000.00; and,

WHEREAS, the City accepted three different quotes from individual car retailers for the purchase of a Jeep Wrangler, and the quote of Marano and Sons was the lowest quote and was otherwise the quote in the best interest of the City's needs; and,

WHEREAS, the City of Hoboken seeks to award a contract to Murano and Sons, in accordance with their attached purchase and sales agreement, for the purchase of a Jeep Wrangler, with a not to exceed amount of Twenty Four Thousand Five Hundred Dollars ($24,500.00); and,

WHEREAS, **Murano and Sons** is hereby required to abide by the "pay-to-play" requirements of the Hoboken Public Contracting Reform Ordinance, codified as §20A-11 et seq. of the Administrative Code of the City of Hoboken as well as the Affirmative Action laws and policies under which the City operates, and the award and continuation of this contract are subject to continued compliance and may be terminated if the vendor is found to be noncompliant during the term of the contract; and,

WHEREAS, certification of funds for this contract is available as follows:

I, George DeStefano, Chief Financial Officer of the City of Hoboken, hereby certify that $24,500.00 is available in the following appropriation account 4-31-55-702-001 **in the CY2014 temporary appropriation; and I further certify that this commitment together with all previously made commitments does not exceed the appropriation balance available for this purpose for the CY2014 budget; and I further certify that the funds being appropriated are intended for the purposes herein appropriated.**

Signed: _____, **George DeStefano, CFO**

NOW THEREFORE, BE IT RESOLVED, that a contract with Murano and Sons to provide one Jeep Wrangler, in accordance with the purchase and sales agreement attached hereto; and, the total not to exceed amount shall be Twenty Four Thousand Five Hundred Dollars ($24,500.00) which shall be paid at the time of delivery of the vehicle; and

BE IT FURTHER RESOLVED that the City Council of the City of Hoboken specifically finds that compliance with Hoboken Ordinance #DR-154 (codified as §20A-4 of the Code of the City of Hoboken), and any and all state Pay to Play laws, is a continuing obligation of the contractor until delivery of the vehicles; and

BE IT FURTHER RESOLVED the City Clerk shall publish this resolution as required by law and keep a copy of the resulting contract on file in accordance with N.J.S.A. 40A:11-1 et seq.; and,

BE IT FURTHER RESOLVED that a certified copy of this resolution shall be provided to Mayor Dawn Zimmer and Corporation Counsel for action in accordance therewith and to take any other actions necessary to complete and realize the intent and purpose of this resolution; and,

BE IT FURTHER RESOLVED, that any change orders that become required as part of this contract shall be in compliance with all applicable state statutes, and shall be subject to the availability and proper appropriation of funds by the City, which shall be in the City's sole discretion with or without cause, and without the result of damages being assessed by the contractor; and,

BE IT FURTHER RESOLVED, the Mayor shall have the approval of Council to execute the attached purchase and sales agreement for the vehicle (serial number 1C4GJWAG2DL690574) for a total purchase price of $24,500.00 in favor of Marano and Sons.

BE IT FURTHER RESOLVED that this resolution shall take effect immediately.

MEETING: April 16, 2014

REVIEWED:

Quentin Wiest
Business Administrator

APPROVED AS TO FORM:

Mellissa L. Longo, Esq.
Corporation Counsel

Councilperson	Yea	Nay	Abstain	No Vote
Ravi Bhalla	/			
Theresa Castellano	/			
Peter Cunningham	/			
James Doyle	/			
Elizabeth Mason	/			
David Mello	/			
Tim Occhipinti	/			
Michael Russo	/			
Council President Jen Giattino	/			

A TRUE COPY OF A RESOLUTION ADOPTED BY THE COUNCIL OF THE CITY OF HOBOKEN, N.J. AT A MEETING HELD ON: APR 16 2014

CITY CLERK

Budget Account Maintenance

Add | Edit | Close | Delete | << | >> | Detail

Account: 4-31-55-702-001

Desc: 702 Supplies & Materials

Acct Type: Sub

Chk Acct: IPARK UTILITY

Cap Flag: ☑

Fund Type: Budget

Class Id:

Class Id 2:

Activity | Misc | G/L Accounts

Activity To Date:				Current Period:	
Encumber:	6,087.85	Budgeted:	39,253.44	Expended:	.00
Expended:	2,620.28	Balance:	30,545.31	Trans-In:	.00
Trans-In:	.00			Trans-Out:	.00
Trans-Out:	.00	YTD Requested:	24,500.00	Reimburse:	.00
Reimburse:	.00	Requested Balance:	6,045.31		
Cancel:	.00				

Control Balance: 65,705.93 Control Requested Balance: 41,205.93

Motor Vehicle
Retail Order

☐ AUTO SALES
150 South Avenue
Garwood, NJ 07027
Tel. (908) 789-0555
Fax (908) 789-1792

☒ TRUCKS & SUV'S
507-513 South Avenue
Garwood, NJ 07027
Tel. (908) 789-1551
Fax (908) 789-2744

CUSTOMER City of Hoboken DATE 4/1/14 STOCK NO. DL690574

ADDRESS 94 Washington St. (Street) Hoboken (City) NJ (State) 07030 (Zip)

PHONE (H) _____ PHONE (W) _____ CELL _____

E-MAIL _____ SALES REP. Ralph Jr.

D. L. # _____ SOC. SEC. # _____ D.O.B. _____

YEAR 2013 MAKE Jeep MODEL Wrangler

BODY TYPE 2dr. EXT. COLOR Black INT. COLOR Black MILES 16,239

Prior to Delivery of the vehicle listed above, customer shall elect one of the following and so advise dealership:
* Cash Purchase * Finance Purchase * Lease

IF A CREDIT SALE, REQUIRED INFORMATION CONTAINED ON A SEPARATE DISCLOSURE STATEMENT IS MADE A PART OF THIS ORDER.

IF A LEASE, COMPLETE DISCLOSURE OF ALL LEASE TERMS AND CONDITIONS IS CONTAINED ON A SEPARATE LEASE CONTRACT.

TO BE DELIVERED ON OR ABOUT

Price of Unit	24,424	50
Additional Equipment (options)		
Automatic - A/C		
Alloy wheels		
Hardtop		
GAP Insurance (if applicable)		
Service Contract (optional)		

IF A LEASE, THE FOLLOWING APPLY:

MONTHLY PAYMENT AMOUNT $ _____

TERM: _____ MONTHS

MILEAGE PER YEAR _____

CASH DUE AT DELIVERY $ _____

IF A PURCHASE, THE FOLLOWING APPLY:

TOTAL PRICE OF VEHICLE		
Less Trade-in		
TOTAL TAXABLE AMOUNT		
State Sales Tax		
Out of State Agency Fee (if applicable)		
Motor Vehicle Tire Fee - $1.50 per New Tire		
Registration/Title Fee (Estimated) (SEE PARAGRAPH 15 ON REVERSE SIDE)		
Documentary Fee (SEE PARAGRAPH 16 ON REVERSE SIDE) Clerical Expense $40.00 Document Delivery Service $35.00	$75.00	
NET PAY-OFF ON TRADE-IN		
Used Car Lemon Law Tax		50
TOTAL	24,500	00
Deposit		
Down Payment		

SERIAL NUMBER 1C4GJWAG2DL690574

Ins. Co. _____ Policy # _____

Eff. Date _____ Phone _____

Lien Holder _____

CHECK APPROPRIATE BOX

☐ This vehicle is sold/leased "as is" and dealer hereby expressly disclaims all warranties, either express or implied, including any implied warranties of merchantability and fitness for a particular purpose. Any liability of dealer with respect to defects or malfunctions of this vehicle including, without limitation, those which pertain to performance or safety, (whether by way of "strict liability," based upon dealer's negligence, or otherwise), is expressly excluded and customer hereby assumes any such risks.

OR

☒ The only dealer warranty on this vehicle is the limited warranty which is issued with and made a part of this order form.

ALL USED VEHICLE SALES-DEALER'S OBLIGATION

The laws of New Jersey require Motor Vehicle Dealers to make all necessary repairs, without charge, or return the full purchase price (if a sale) to the customer in the event a used vehicle sold and intended to be registered in this State fails to meet State Inspection Standards for the issuance of a certificate of approval due to a defect that is not the result of the customer's own act. The undersigned, before entering into this contract, has been informed of dealer's obligation above and agrees to have the used vehicle inspected within 14 days from the issuance of the permanent registration for such vehicle.

4/1/14 (Date) X _____ (Customer's Signature)

WAIVER OF DEALER'S OBLIGATION

The undersigned, has read and understood the above Dealer's Obligation, and does hereby WAIVE AND RELEASE the DEALER'S OBLIGATION to make repairs without charge or return the full purchase price (if a sale) if the vehicle fails to meet State Inspection Standards for the issuance of a certificate of approval, unless the cause for the vehicle's rejection is an item which is "covered" by New Jersey's Used Car Lemon/Warranty Law (P.L. 1995, Chpt. 373).

/ / (Date) X _____ (Customer's Signature)

TRADE-IN DESCRIPTION AND ALLOWANCE

Year _____ Make _____ Model _____

Serial No. _____ Mileage _____

Trade-In Value _____ Date of _____

Less Balance Owed _____

Net Trade-In Allowance _____

Balance Owed to: _____

Address: _____

Account No.: _____

Info. From _____ Good Thru _____

Customer certifies that the frame on the trade-in vehicle has never sustained any damage or been repaired. All airbags are of original equipment and have

702 - 001

Enterprise Holdings Inc.

2013 JEEP WRAN 1XH4

16,239 Odo

BLACK Black

UNIT: 7H7MG0 VIN: 1C4GJWAG2DL690574 Wrangler 2DR Spt 4WD Alys/Hrdtp

Equipment*

Featured

Conv Roof	Cruise Control	Engine Size / Desc - 3.6L V-6
Power Locks	Power Windows	Wheels - Alloy

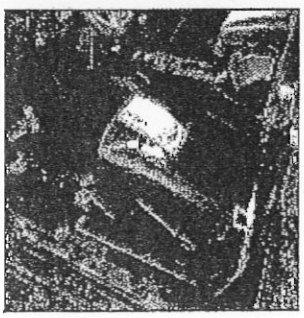
All Equipment

*Vehicle equipment and features subject to change. No representation or warranty is made herein as to any feature on the vehicle or its operable condition. Vehicle equipment and feature listing can be based upon compilation of multiple data sources by third parties outside of the control of Enterprise Holdings and equipment and feature descriptions vary by third parties and by vehicle. Any items noted are not necessarily an exclusive or exhaustive listing. All vehicles are sold AS-IS. Buyer is encouraged to inspect vehicle prior to purchase.

**Vehicle condition is subject to change. No representation or warranty is made herein as to the condition of the vehicle or its operable condition. Vehicle condition and condition report details can be based upon compilation of multiple data sources by third parties outside of the control of Enterprise Holdings and condition reports vary by third parties and by vehicle. Any items noted are not necessarily an exclusive or exhaustive listing. All vehicles are sold AS-IS. Buyer is encouraged to inspect vehicle prior to purchase.

This is not an offer to sell or solicitation to purchase. The above represents a report on available vehicle inventory at the time in which the request or inquiry was made. No vehicle listed above is guaranteed for availability or sale. Actual vehicle pricing, mileage, features, equipment, condition and other details are subject to change. Additional fees may apply. Final purchase subject to all terms and conditions contained only in final wholesale buyer's order.

Photos



View all photos »

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Alamo | Enterprise | National

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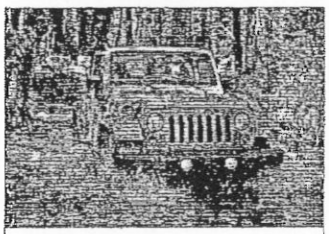


Manufacturer Photo: (Not Actual Vehicle)

2013 Jeep Wrangler - $25,995

Dealer: Teterboro Chrysler Jeep Dodge RAM , 469 Route 46 East
Little Ferry, NJ 07643
Call: 888-312-9604

Mileage:	19,119
Body Style:	SUV
Exterior Color:	Silver
Interior Color:	Black
Stock #:	148364A
VIN:	1C4GJWAG1DL575402
Transmission:	Automatic
Vehicle History Report:	CARFAX 1-Owner Vehicle View Free Report

Source: Jeep Certified Program

Standard Equipment

Power Steering
Power Door Locks
Power Windows
Am/Fm Radio
Trip Odometer
Tachometer
Tilt Steering Wheel
Cruise Control
Front Bucket Seats
Reclining Seats
Alloy Wheels
Clock
Console
Carpeting
Split Front Bench Seat
Cloth Upholstery
Keyless Entry
Compass
Cd Player In Dash
Mp3 Player
Auxiliary Audio Input
Anti-Theft Device(S)
Side Air Bag System
Airbag On/Off Switch
Traction Control System
Fuel Data Display
Dual Air Bags
Vanity Mirrors
Vehicle Stability Assist
Tire Pressure Monitor
Ebd Electronic Brake Dist
Eba

Call Barry S. .We Carry A Large Selection Of Pre-Owned Vehicles.Make Sure To Print This Ad And Get An Additional $200.00 Off This Car.

Hide Standard Equipment

Airbag On/Off Switch
Alloy Wheels

About the Dealer

Teterboro Chrysler Jeep Dodge RAM
(0.0) Not Yet Rated
469 Route 46 East
Little Ferry, NJ 07643
888-312-9604

This Vehicle Is Jeep Certified

Program Benefits: 125-point inspection and reconditioning, 24/7 roadside assistance, Vehicle history report

Limited Warranty: 7 years/100,000 miles for all models

Printed on March 14, 2014

Print this Page
Close

2013 Jeep Wrangler

$24,995

AT Car ID: AT-15C760BD

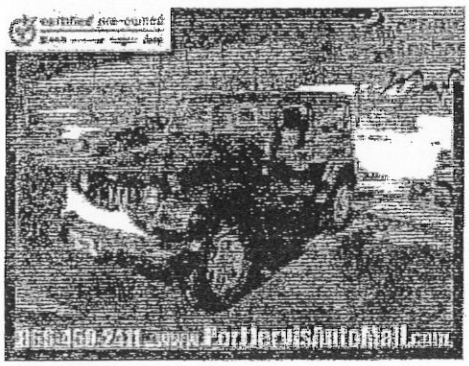
Dealer Information

Port Jervis Auto Mall Chrysler Dodge Jeep Ram

131 Kingston Avenue
Port Jervis, NY 12771
Distance from ZIP 07030: 55 miles

Contact: Marie Beals - Internet Sales Mgr, Chris or Bill
Call Toll Free 1-877-409-7069

Car Details



Mileage	15,004
Exterior Color	Black Clear Coat
Interior Color	Black
Body Style	Sport Utility
Doors	Two Door
Engine	6 Cylinder
Transmission	Automatic
Fuel Type	Gasoline
Drive Type	4 wheel drive - rear
Stock No.	U18031
VIN	To view VIN, return to original vehicle description window, select the View VIN link, and enter the characters shown into the text box.

Options Installed

- 3 Point Rear Seatbelts
- 3 Point Seatbelts
- 4 Wheel Drive
- Adjustable Head Rests
- Airbag On/Off Switch
- Ambient Light Package
- Anti-Lock Braking System (ABS)
- Anti-Theft Device(s)
- Beverage Holder (s)
- Bucket Seats
- Cargo Cover
- Center Console
- Clock
- Dual Air Bags
- EBA Emergency Brake Asst
- EBD Electronic Brake Dist
- Fog Lamps
- Folding Rear Seats
- Fuel Data Display
- Head Restraints
- Hill Start Assist Control (HAC)
- Intermittent Wipers
- Multi-Function Steering Wheel
- Outside Temperature Gauge
- Passenger Seat Height Adjust
- Power Outlet(s)
- Reading Light(s)
- Rear Bench Seat
- Reclining Seats
- Removable Roof
- Side Air Bag System
- Skid Plates
- Tachometer
- Tilt Steering Wheel
- Tinted or Privacy Glass
- Tire Pressure Monitor
- Tow Hooks
- Traction Control System
- Trip Odometer

- Compass
- Cruise Control
- Daytime Running Lights
- Power Steering
- RSC Roll Stability Control
- Vanity Mirrors
- Vehicle Stability Assist

Comments

There is nothing like a 4x4 JEEP, so become part of the fun and check out this Sport 4x4 today! It's got an automatic transmission with autostick, factory hard top, air conditioning, am/fm/cd, folding rear seat, all-season upholstery and more!!Please Call Internet Sales @ 866-450-2411!! Ask for Marie, Ken, Chris or Bill Anytime!

Disclaimer

Price excludes registration and title fees and taxes.

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To see this vehicle on AutoTrader.com, go to http://www.autotrader.com/ATCarID/AT-15C760BD 03/18/14

CarGurus™

CarGurus Price Analysis

2013 Jeep Wrangler - $32,923

No price calculations available.

Dealer's Price:	**$32,923**
Mileage:	11 miles
Transmission:	Automatic
Exterior Color:	White
Interior Color:	Black
Seller:	Dealer
VIN:	1C4GJWBG6DL687160
Stock #:	17003
Major Options:	Navigation System

CarGurus Market Comparison

Comparable listings

2013 Jeep Wrangler Sahara

$33,179
N/A
5-Speed Automatic

- Navigation System
- Quick Order Package

2013 Jeep Wrangler Unlimited Sahara

$33,910
N/A
5-Speed Automatic

- Navigation System
- Quick Order Package

2013 Jeep Wrangler Sahara

$34,070
N/A
5-Speed Automatic

- Navigation System
- Quick Order Package

Market Price Analysis

More details at http://cargur.us/NYW8

Use a QR code scanner app on your phone to view more details online:

CarGurus is a leading automotive research and shopping destination. Our free search tool provides guidance on the best deals available in your local area. CarGurus's Instant Market Value is based on the unbiased analysis of over 4 million current and recently sold car listings.

6

Introduced by: _____
Seconded by: _____

CITY OF HOBOKEN
RESOLUTION NO. _____

RESOLUTION ENDORSING THE SUBMISSION OF RECYCLING TONNAGE GRANT APPLICATION TO THE NJ DEP AND DESIGNATING DAVID CALAMONERI THE CITY'S RECYCLING COORDINATOR

WHEREAS, The Mandatory Source Separation and Recycling Act, P.L.1987, c.102, has established a recycling fund from which tonnage grant may be made to municipalities in order to encourage local source separation and recycling programs; and

WHEREAS, It is the intent and the spirit of the Mandatory Source Separation and Recycling Act to use the tonnage grants to develop new municipal recycling programs and to continue and to expand existing programs; and

WHEREAS, The New Jersey Department of Environmental Protection has promulgated recycling regulations to Implement the Mandatory Source Separation and Recycling Act; and

WHEREAS, The recycling regulations impose on municipalities certain requirements as a condition for applying for tonnage grants, including but not limited to, making and keeping accurate, verifiable records of materials collected and claimed by the municipality; and

WHEREAS, there is no City monetary match for this grant application.

NOW THEREFORE BE IT RESOLVED by the City Council of the City of Hoboken that the City hereby endorses the submission of the recycling tonnage grant application to the New Jersey Department of Environmental Protection and designates David Calamoneri as Recycling Coordinator to ensure that the application is properly filed; and

BE IT FURTHER RESOLVED, there is no City match; and

BE IT FURTHER RESOLVED that the monies received from the recycling tonnage grant be deposited in a dedicated recycling trust fund to be used solely for the purposes of recycling.

MEETING: April 16, 2014

REVIEWED:
Quentin Wiest
Quentin Wiest
Business Administrator

APPROVED AS TO FORM:
Mellissa L. Longo
Mellissa L. Longo, Esq.
Corporation Counsel

Councilperson	Yea	Nay	Abstain	No Vote
Ravi Bhalla	✓			
Theresa Castellano	✓			
Peter Cunningham	✓			
James Doyle	✓			
Elizabeth Mason	✓			
David Mello	✓			
Tim Occhipinti	✓			

Michael Russo	✓			
Council President Jen Giattino	✓			

A TRUE COPY OF A RESOLUTION ADOPTED BY THE COUNCIL OF THE CITY OF HOBOKEN, N.J. AT A MEETING HELD ON:

APR 16 2014

James J. Farrin

CITY CLERK

8

Introduced by: _____
Seconded by: _____

CITY OF HOBOKEN
RESOLUTION NO. _____

RESOLUTION AWARDING A CONTRACT TO CALI CARTING INC. FOR THE PROVISIONS OF SOLID WASTE AND RECYCLING REMOVAL AND PROCESSING SERVICES IN ACCORDANCE WITH THE CITY'S BID NO. 13-13 IN THE TOTAL AMOUNT OF $1,760,000.00 TO COMMENCE MAY 1, 2014

WHEREAS, proposals were received for Bid Number 13-13 for the provisions of solid waste and recycling removal and processing services; and,

WHEREAS, One (1) bid proposal was received; the Purchasing Agent advised being:

VENDOR		YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Cali Carting Inc.	option 1	$1,860,000	$1,890,000	$1,920,000	$1,965,000	$1,995,000
	option 2	$1,760,000	$1,790,000	$1,820,000	$1,865,000	$1,895,000

WHEREAS, pursuant to the recommendation of the Purchasing Department (attached hereto) the City wishes to contract for the goods and services specified in Bid No. 13-13, Option Two (5 Days a Week), for a one year term with two one year options to extend at the sole discretion of the City, and with the option to elicit Alternate B at the end of the current term (plus any and all applicable extensions) at the City's sole discretion, and Cali Carting Inc. submitted a responsible, and responsive bid; and,

WHEREAS, certification of funds is available as follows:

I, George DeStefano, Chief Financial Officer of the City of Hoboken, hereby certify that $1,760,000.00 is available in the following appropriations: 4-01-26-305-037 in the CY2014 budget, which is anticipated to be passed in the coming weeks; and I further certify that this commitment together with all previously made commitments and payments does not exceed the funds available in said appropriation for the CY2014 budget; and I further certify that the funds available in the said appropriation are intended for the purpose herein committed.

Signed: _____, George DeStefano, CFO

NOW THEREFORE BE IT RESOLVED by the City Council of the City of Hoboken as follows:

A. This resolution awards a contract to Cali Carting Inc. for Bid No. 13-13, Option Two (5 Days a Week), for a one (1) year term with two (2) one (1) year options to extend at the sole discretion of the City, and with the option to elicit Alternate B at the end of the current term (plus any and all applicable extensions) at the City's sole discretion, in the total amount of One Million Seven Hundred Sixty Thousand Dollars ($1,760,000.00), in year one, with all options to extend and all funds thereunder subject to non-appropriation of funds and extension at the sole discretion of the City.

B. If the contract, as provided by the City of Hoboken, is not executed by the vendor within 21 days of execution of this award, the City may cancel this award and rebid the contract. The contract shall commence on May 1, 2014.

C. The contract shall be in accordance with the terms of the specifications and the vendor's corresponding bid proposal documents. No exceptions were noted, so none will be allowable under the contract.

D. Pursuant to the provisions of N.J.S.A. 40A:11-11(5), the Mayor or her agent is hereby authorized to enter into an Agreement with the vendor for said purchase and sale.

E. This resolution shall take effect immediately upon passage.

MEETING: April 16, 2014

REVIEWED:

Quentin Wiest
Business Administrator

APPROVED AS TO FORM:

Mellissa L. Longo, Esq.
Corporation Counsel

Councilperson	Yea	Nay	Abstain	No Vote
Ravi Bhalla	/			
Theresa Castellano	/			
Peter Cunningham	/			
James Doyle	/			
Elizabeth Mason	/			
David Mello	/			
Tim Occhipinti	/			
Michael Russo	/			
Council President Jen Giattino	/			

A TRUE COPY OF A RESOLUTION ADOPTED BY THE COUNCIL OF THE CITY OF HOBOKEN, N.J. AT A MEETING HELD ON: APR 16 2014

CITY CLERK

Bid Proposal Page
(Page 3 of 4)

BID NUMBER 13-13
SOLID WASTE REMOVAL AND PROCESSING (TO INCLUDE RECYCLABLE MATERIALS)

PROPOSED OPTION #2

Five (5) day Pick-up

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Garbage	Recycling	NO P/Up	Garbage	Recycling	Garbage	No P/U

Please list the annual total fee for the services described in the specification, separating solid waste carting from recyclable carting fees. The Final Proposal Amount shall be the solid waste fee total for the three years plus the recyclable caring fee total for three years, divided by three. Please completely fill in all of the amounts below:

Base Bid:

	SOLID WASTE (SW)	RECYCLABLE (RW)
YEAR ONE	$ 1,200,000.00	$ 560,000.00
YEAR TWO	$ 1,230,000.00	$ 560,000.00
YEAR THREE	$ 1,260,000.00	$ 560,000.00
TOTALS	$ 3,690,000.00	$ 1,680,000.00
PROPOSAL AMOUNT (SW Total + RW Total) ÷ 3	$ 1,790,000.00	

One Million Seven Hundred Ninety Thousand Dollars.
(Proposal Amount – In Words)

Alternate Bid B:

	SOLID WASTE	RECYCLABLE
YEAR FOUR	$ 1,290,000.00	$ 575,000.00
YEAR FIVE	$ 1,320,000.00	$ 575,000.00
TOTALS	$ 2,610,000.00	$ 1,150,000.00

Bid Proposal Page
(Page 4 of 4)

Cali Carting Inc. I or We
(Name of Bidder/Vendor)

Of P.O. Box #440 - 450 Bergen Avenue - Kearny, NJ 07032
(Address, street, city, state, Zip Code)

201-991-5400 Office 201-991-1038 Fax info@calicarting.com
hereby agree to provide complete performance in accordance with the Contract and Specifications for the Prices listed on the Proposal Sheets.

NOTE: Bidders are required to sign all Option Proposal sheets.

(Signature) John F. Cali Jr. - President
Cali Carting Inc.
New Jersey

January 7, 2014
(Date)

President
(Title/Position)

CITY OF HOBOKEN

Division of Purchasing

DAWN ZIMMER
Mayor

AL B. DINEROS, QPA
Purchasing Agent

Date: April 10, 2014

To: Quentin Wiest, Business Administrator
Corporation Counsel

From: AL B. Dineros

Subject: Resolution to Award the Contract for Bid 13 -13 – Solid Waste Removal and Processing

Twelve (12) vendors received the bid package. One (1) sealed bid package was received, opened and announced publicly at City Hall on January 8, 2014.

Corporation counsel and myself had reviewed the documents submitted by the bidder and it appears that they have a complete submission. I recommend awarding the contract to the lowest responsive and responsible bidder.

The vendor will be:

1. **Cali Carting Inc.**
   P.O. Box 440-450, Bergen Avenue
   Kearney, NJ 07032

Director of Human Services recommends awarding the contract using option #2, five (5) day pick-up. The following are the price schedule base on the bid proposal:

Year One:	$1,760,000.00
Year Two:	$1,790,000.00
Year Three:	$1,820,000.00

Line of accounting: 4-01-26-305-037

94 Washington Street · Hoboken, NJ 07030-0485
(201) 420-2011 fax (201) 420-2009

Introduced by: _____
Seconded by: _____

CITY OF HOBOKEN
RESOLUTION NO. _____

RESOLUTION REJECTING A BID FOR THE PROVISIONS OF VIDEO STREAMING, OTHERWISE KNOWN AS BID NO. 14-01, IN ACCORDANCE WITH N.J.S.A. 40A:11-13.2(D)

WHEREAS, proposals were received for the provisions of the Video Streaming, as specified in Bid Number 14-01; and,

WHEREAS, four (4) proposals were received; and,

WHEREAS, the Administration has decided to substantially revise the specifications for the goods or services; and,

WHEREAS, as a result, the Purchasing Agent recommends that the City Council of the City of Hoboken reject all bid submissions for the provision under Bid No. 14-01, pursuant to N.J.S.A. 40A:11-13.2(d).

NOW THEREFORE BE IT RESOLVED that the City Council of the City of Hoboken hereby rejects all bid proposals submitted for the provision under Bid No. 14-01, pursuant to N.J.S.A. 40A:11-13.2(d); and,

BE IT FURTHER RESOLVED that the City Council authorizes the Administration to take any and all steps necessary to properly revise and rebid, and, thereafter, contract for the provisions necessary for the Video Streaming and Recording Services.

MEETING: April 16, 2014

REVIEWED:

Quentin Wiest
Business Administrator

APPROVED AS TO FORM:

Mellissa L. Longo, Esq.
Corporation Counsel

Councilperson	Yea	Nay	Abstain	No Vote
Ravi Bhalla	/			
Theresa Castellano	/			
Peter Cunningham	/			
James Doyle	/			
Elizabeth Mason	/			
David Mello	/			
Tim Occhipinti	/			
Michael Russo	/			
Council President Jen Giattino	/			

A TRUE COPY OF A RESOLUTION ADOPTED BY THE COUNCIL OF THE CITY OF HOBOKEN, N.J. AT A MEETING HELD ON: APR 16 2014

CITY CLERK

CITY OF HOBOKEN

Division of Purchasing

DAWN ZIMMER
Mayor

AL B. DINEROS, QPA
Purchasing Agent

Date: April 7, 2014

To: Quentin Wiest, Business Administrator
Corporation Counsel

From: AL B. Dineros

Subject: Resolution to Reject All Bid Proposal for Bid 14 – 01 – Video-Streaming and Recording Services Provider

In accordance with N.J.S.A 40A:11-13.2 d, all bid proposals from four (4) bidders will be rejected. Business Administrator recommends revising the bid specifications to take advantage of new technology to fit the needs of the City.

Bid specifications will be revise and re-advertise.

94 Washington Street · Hoboken, NJ 07030-0485
(201) 420-2011 fax (201) 420-2009

CITY OF HOBOKEN

Division of Purchasing

DAWN ZIMMER
Mayor

AL B. DINEROS, QPA
Purchasing Agent

Subject: **BID OPENING: 14-01 – Video-Streaming and Recording Services**

Please be advised that bids for the above mentioned services were received, publicly opened and announced at City Hall on January 8, 2014 at 11:00 AM. The following personnel were present during the opening:

AL B. Dineros	- Purchasing Agent
Jennifer Mastropietro	- Buyer
Amanda Seguinot	- Purchasing Clerk
Jerry Lore	- Deputy City Clerk
Adam	- ASL Production

Ten (10) vendors received the bid package.

The following information is provided:

1. Reid Sounds, Inc.
   92 North Main Street, BLDG 16
   Windsor, NJ 08561
   Bid Price: $ 25,800.00

2. ASL Production, LLC
   225 Grand Street, Unit 5B
   Hoboken, NJ 07030
   Bid Price: $ 27,100.00

3. Croom Video Services
   658 Speedwell Avenue
   Morris Plains, NJ 07950
   Bid Price: $ 42,800.00

4. Granicus Inc
   600 Harrison Street, #1201
   San Francisco, CA 94107
   Bid price: $ 96,400.00

NOTE: This result is un-official, all submitted documents are under review by the Business Administrator, Deputy City Clerk, Corporation Counsel and myself. The Governing Body has 60 days to award the contract after completion of the review process.

94 Washington Street · Hoboken, NJ 07030-0485
(201) 420-2011 fax (201) 420-2009

Introduced By: _____

Second By: _____

CITY OF HOBOKEN
RESOLUTION NO._____

RESOLUTION AUTHORIZING THE REFUND OF TAX OVERPAYMENTS

WHEREAS, an overpayment of taxes has been made on property listed below: and

WHEREAS, Sharon Curran, Collector of Revenue recommends that refunds be made;

NOW THEREFORE BE IT RESOLVED, that a warrant be drawn on the City Treasurer made payable to the following totaling **$ 11,740.96**

NAME	BL/LT/UNIT	PROPERTY	QTR/YEAR	AMOUNT
Wells Fargo Real Estate Attn: Financial Support Unit 1 Home Campus Mac X2302-04-D Des Moines, IA 50328	18/18	89-91 Jefferson St.	1/14	$1,799.25
Michael Camerlengo c/o Arnold R. Schlesserman LLC 1709 Choir Court Toms River, NJ 08755	61/5/C0004	409 Adams St.	1/14	$1,355.44
Angela Laufer 9 Chestnut Drive Chester, NJ 07930	114/1/C0507	1300 Grand St.	4/13	$3,757.42abatement
Vadim Gelman & Inga Reznik 333 River Street #513 Hoboken, NJ 07030	41/10.02/C004B	222-32 Grand St.	1/14	$1,943.19
Weichert Title Agency 1909 Route 70 East Cherry Hill, NJ 08003	268.01/1/C006E	1501 Garden/ 1500 Bloomfield St	1/14	$2,764.51
Albert Balady 1301 Adams St #308 Hoboken, NJ 07030	114/1/C0308	1300 Grand St	1/14	$121.15

A TRUE COPY OF A RESOLUTION ADOPTED BY
THE COUNCIL OF THE CITY OF HOBOKEN, N.J.
AT A MEETING HELD ON:
Meeting: April 16, 2014

APR 16 2014

CITY CLERK

Approved as to Form:

CORPORATION COUNSEL

Sharon Curran

NAME	BL/LOT/UNIT	PROPERTY	YEAR	AMOUNT
Coughlin Duff LLP 350 Mount Kemble Ave P.O. Box 1917 Morristown, NJ 07962-1917	155/4	1016-1024 Clinton St	2013	$35,985.00

Meeting: April 16, 2014

Approved as to Form:

Corporation Counsel

Sharon Curran

A TRUE COPY OF A RESOLUTION ADOPTED BY
THE COUNCIL OF THE CITY OF HOBOKEN, NJ
AT A MEETING HELD ON:

APR 16 2014

CITY CLERK

Introduced by: _____
Seconded by: _____

CITY OF HOBOKEN
RESOLUTION NO. _____

RESOLUTION AUTHORIZING TAX ASSESSOR TO CANCEL
AN ADDED ASSESSMENT, AND REAL ESTATE TAXES
RESULTING THEREFROM, ON ACCOUNT
AS TO BLOCK 58, LOT 15 C002L

WHEREAS, an erroneous assessment occurred on Block 58, Lot 15 C002L; and

WHEREAS, as a result of the aforesaid error, the Tax Assessor placed an erroneous added assessment on Block 58, Lot 15 C002L resulting in the imposition of additional real estate taxes for the added assessment in the calendar year 2013 and additional taxes for the calendar year 2014; and

WHEREAS, Special Counsel for the City of Hoboken has opined that the cancellation of the added assessment, and the real estate taxes resulting therefrom, in this matter is warranted; and,

WHEREAS, 420 Madison is currently included in the Tax Sale because of the erroneously billed Added Assessment. Added Assessment charges to be canceled:

2013 – 4th quarter - $6,221.81
2014 – 1st quarter - $2,073.94
2014 – 2nd quarter - $2,073.94

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Hoboken, County of Hudson and State of New Jersey, that the Tax Assessor for the City of Hoboken be and is hereby authorized to cancel the added assessment, and the real estate taxes resulting therefrom, that has accrued on the account as to Block 58, Lot 15 C002L; and

BE IT FURTHER RESOLVED, the ouncil of the City of Hoboken, that said Added Assessment charges be canceled from this property and from the Added Assessment Tax Duplicate, and said property be removed from the Tax Sale scheduled for April 25, 2014, because of erroneous charges; and,

BE IT FURTHER RESOLVED that the City Clerk shall forward copies of this Resolution to the Tax Assessor and the Tax Collector.

Meeting date: April 16, 2014

APPROVED:
QUENTIN W. WIEST
Business Administrator

APPROVED AS TO FORM:
MELLISSA L. LONGO
Corporation Counsel

Councilperson	Yea	Nay	Abstain	No Vote
Ravinder Bhalla	/			
Peter Cunningham	/			
Jennifer Giattino	/			
James Doyle	/			
Elizabeth Mason	/			
David Mello	/			
Timothy Occhipinti	/			
Michael Russo	/			
Theresa Castellano				

A TRUE COPY OF A RESOLUTION ADOPTED BY
THE COUNCIL OF THE CITY OF HOBOKEN, N.J.
AT A MEETING HELD ON: APR 1 6 2014

James J. Farrior

CITY CLERK