



STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242



ADDENDUM NO. 1 TO PROJECT NO. M2948

**HVAC WORK
BOILER REPLACEMENT
BUILDINGS 8 AND 9
SOUTH BEACH PSYCHIATRIC CENTER
777 SEAVIEW AVENUE
STATEN ISLAND, NEW YORK**

May 17, 2012

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

SPECIFICATIONS

1. SECTION 012100 ALLOWANCES: Delete Paragraph 1.04 B from the Project manual and insert the following:
 - B. The cost of providing the Work of this allowance will be paid, up to the amount specified. Costs above the allowance amount, if any, will be paid by means of a Change Order.
2. SECTION 230924 MODIFICATIONS TO DIRECT DIGITAL BUILDING CONTROL SYSTEM: Discard this Section bound in the Project Manual and substitute the attached Section entitled SEQUENCE OF OPERATION FOR HVAC CONTROLS (pages 230924-1 thru 230924-14) in the Project Manual.
3. SECTION 235223 CAST IRON BOILER: Add the following sentence to Paragraph 3.03 B:

“Video shall be provided in standard DVD format that is playable on a standalone DVD player.”

APPENDIX

4. RENOVATION SURVEY FOR ASBESTOS AND LEAD BASED PAINT: Add the attached Document (pages 1-51) to the Project Manual.
5. Price Quotation – Honeywell: Add these two pages to the Project Manual. It is a listing of Honeywell parts and labor for the allowance and serve to summarize the Building Control System and Sequence of Operation

END OF ADDENDUM

James Dirolf, P.E.
Director of Design

Updated 02/07/2008
Printed 05/18/2012

SECTION 230924

SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

PART 1 GENERAL

1.1 DESCRIPTION OF WORK

- A. The sequence of operation is hereby defined as the written manner and method by which HVAC systems and other building systems and equipment operate. This description includes automatic and manual control functions and includes operation(s) which are monitored, observed, trended, etc. and otherwise used to make decisions regarding system operation.
- B. Operating equipment, devices, and system components required for control systems are also specified in other Division 23 Sections.
- C. Input/Output (I/O) points which are required are herein defined as those hardware and software points needed to achieve the described sequence of operation, measurement, monitoring, calculating and alarming. These are as shown on the Point Lists, and as described and/or shown on the contract drawings, and as described in all specification sections. The point's requirement is cumulative in its effect so as to be more complete and inclusive than any one cited source. The points shall be monitored, displayed, adjusted, trended, and/or alarmed at the BMS front end.
- D. Adjustability of Settings: Declarations within the specifications of set points, differentials, times, alarm settings, and all other such settings are hereby understood to be adjustable at the BMS front end. Setting provided are intended as an initial operating condition for system startup and configuration unless otherwise noted. Final settings determined in conjunction with other trades, such as the Test & Air Balancing Contractor, and during system startup and calibration shall be included in final system backed-up, sequence of operations and included in the owner's manual and close-out documentation.

1.2 DEFINITIONS

- A. Refer to the plans and specifications throughout for abbreviations and other references used to define objects, systems, and operations commonly used in this section to describe the sequences of operation. Common trade abbreviations might be used without reference.

- 1. BMS: Building Management System
- 2. CAV: Constant Air Volume
- 3. DDC: Direct Digital Controls
- 4. HHL: Humidity High Limit
- 5. NSB: Night Set Back Temperature
- 6. NSU: Night Set Up Temperature

1.3 RELATED SECTIONS

- A. Division 23 Sections
- B. Division 26 Sections

1.4 SUPPLEMENTAL SUBMITTALS

- A. Sequence of Operation: Submit Shop Drawings for each of the systems being controlled shall include a written sequence of operation as it appears in these specifications. Any deviation from the written sequences shall be highlighted by the Temperature Controls Contractor (TCC) so that the A/E of Record can review, comment and respond to each change. Omission of a sequence or modification of a sequence does not relieve the TCC from providing the specified sequence.

PART 2 - PRODUCTS

- A. Not applicable to this section.

PART 3 - EXECUTION

3.1. COMBUSTION AIR CONTROL (BY BOILER OEM CONTROLS):

- A. Whenever one of the burners on the boilers starts, the associated combustion air intake motorized damper shall open as commanded by the Master Boiler Controller and the combustion air fan shall start upon proof of damper opening (through damper end switch). Combustion air relief motorized damper shall open.
- B. When all burners are off, the damper(s) shall close and the associated combustion air intake motorized damper shall close, combustion air relief motorized damper shall close.
- C. Provide an open-auto selector switch for the combustion air relief motorized damper and the combustion air fan and associated combustion air intake motorized damper on the OEM boiler control panel to override the above operation.
- D. Burners shall not start unless the damper end switch closes, combustion airflow is proven through airflow switch located on the fan discharge ductwork.
- E. Boiler contractor shall provide a signal in the boiler control panel to open the dampers and shall prevent burner operation until the combustion fan & dampers are proven open.
- F. Fan shall be provided with variable frequency controller, that shall control the speed of the combustion air fan in order to provide each boiler with the following CFMs whenever the boiler is firing. Balancing contractor shall set the VFD speeds so all burners are satisfied under all conditions:

Boiler 1CF: 2,440 CFM

Boiler 2CF: 2,440 CFM

Boiler 3CF: 330 CFM

3.2. DUAL-TEMPERATURE WATER SYSTEM (DIGITAL CONTROLS)

- A. Existing Dual temperature loop shall be re-connected to new DDC controllers as required. Existing sequences of operations programming shall be migrated from existing Honeywell DDC controllers to new as required, including but not limited to:
 - a. Secondary pumps
 - b. Chilled water loop three way injection valve
 - c. Hot water loop three way injection valve
 - d. Existing chiller plant.
 - e. Existing Fuel Oil management System.

3.3. HOT WATER BOILER PLANT SEQUENCE OF OPERATION (B-1CF & B-2CF)

PRIMARY/SECONDARY HEATING SYSTEM FOR CONVENTIONAL NON-CONDENSING HOT WATER BOILER PLANT (BMS, OEM and DDC Controlled)FOR CIP PROJECTS

- B. Parallel positioning control (linkage-less): The parallel positioning control with air to fuel ratio controller shall include a master proportional controller which shall be connected to the load to sense the changes in load. The output of the controller shall transmit a signal simultaneously to the forced-draft damper(s) and fuel valve operators. A separate ratio-adjustment controller which has been calibrated for the system to prevent a fuel-rich mixture shall be utilized in the line to the fuel valve and shall vary the signal for the fuel flow proportionally to the air flow. This action shall change the fuel flow to establish the optimum air to fuel ratio. The parallel positioning control shall be capable of offsetting variations in pressure-drop characteristics in final control elements, fuel viscosity, air temperature, or barometric pressure. Stable burner operation shall exist when the continuous firing rate is from 25 percent to 100 percent of the maximum required firing rate. The turndown of the burner firing rate shall be made during the normal firing cycle without interruption or change of burner components. A capability for manual control shall be provided that allows a smooth transition between manual and automatic control.
- C. Modulating Direct Coupled Actuators: The parallel positioning master proportional controller shall control the combustion air dampers to maintain proper combustion as the fuel flow is varied in response to heating load. The modulating motors shall be equipped with a high-fire switch to prove that the motors have moved to the high-fire position during the pre-purge period, and with a low-fire switch to prevent burner ignition unless the modulating motors are at the low fire position. The parallel positioning control shall have external switches mounted on the driven members of the air dampers indicating high fire and low fire position during the purge period; also an external switch indicating low fire position of the fuel metering arrangement to prevent burner ignition unless both external low fire light off indicating switches are electrically closed.

Also, the end switch on the sequential draft damper shall be interlocked with burner motor controls, to ensure 100% opening, prior to pre-purge.

D. Modulating Controller: On each boiler, a modulating, combination temperature controller consisting of an analog header temperature sensor firing rate controller, On/Off Cut-In/Cut-Out controller, and Limit controller with manual reset shall modulate the burners. Varying boiler temperatures will actuate the parallel positioning master proportional controller that in turn will actuate the direct coupled actuators to maintain constant temperature. Direct coupled actuators shall modulate all combustion air dampers and all fuel valves (gas or oil).

E. Temperature Operating Control

1. A temperature operating control shall be utilized on each boiler. Operating control shall function to stop the operation of the burner when the boiler temperature reaches its cutout setting and cause the burner to start when the temperature drops to a selected lower cut-in temperature.
2. When the lead-lag programming control requires a temperature control installed on the header, it shall be in addition to the control installed on the boiler. In this case, the control installed on the header shall act as the primary operating control, and shall be set in accordance with the recommendation of the lead-lag control manufacturer. The temperature operating controls installed on the boilers shall all be set alike.
3. Temperature Limit Control: A temperature limit control on each boiler wired in series with all other control devices to the ungrounded conductor shall stop the burner and interrupt completely the power to the flame failure control if the boiler maximum temperature exceeds the high limit setpoint.

F. Flame Failure Control

1. Each burner shall be provided with a flame failure (combustion safety) programming control which will de-energize all electrically operated fuel valves and burner equipment within four seconds, and actuate a visual alarm mounted on the control panel after an operating flame failure has occurred. Automatic start up and shutdown programming shall be a part of this safety equipment.
2. Pilot and main flame shall be detected by a lead sulphide infrared or ultraviolet scanner as per burner manufacturer's recommendation. Scanner shall be so located as not to be actuated by hot refractory or other hot body.
3. Control shall provide for prepurge prior to light off, proof of pilot before main fuel valves open, proof of main flame only during run, and post

purge at the end of each firing period. Control shall affect a safety shutdown prior to the opening of the main fuel valves if the presence of the pilot flame has not been proven.

4. The pre-purge cycle shall be 100% air flow and shall have a duration equivalent to a minimum of 4 air changes. The post-purge cycle shall be 15 seconds minimum (adjustable).
5. In case of electrical power supply failure, control shall recycle automatically when power is restored. In case of safety shutdown, control shall not permit recycling of the burner equipment until after the manual operation of a reset button.
6. The control shall accomplish a safe start component check during each start.

G. Low Fire Hold Aquastat:

1. A low fire hold minimum temperature aquastat shall limit burner modulation to prevent boiler from modulating to high fire until water temperature reaches 140o F.

H. Night Setback:

1. A DDC controller linked to boiler-burner controls; night and unoccupied times (weekends / holidays) shall be programmed to operate in a setback mode. During the occupied times, the header temperature controls the burner firing. An outdoor temperature sensor (set at 40 F) in series with a space thermostat (with temperature set back at 55 F) in the coldest room will determine the burner operation during the unoccupied hours. The header temperature limiting control device shall always be functional.

I. Lead Lag Programming Control

1. A lead-lag programming control shall sequence automatically the firing of multiple boilers with changing load conditions. The sequence for start-up and operation shall be such that the first (lead) boiler starts-up and reaches its burner delivery (high fire) rate. If the first boiler is unable to meet the temperature, the second (lag) boiler shall automatically fire. Both boilers shall operate in unison, modulating to meet the demand. If the demand is exceeded by both boilers firing at low fire, the lag boiler shall automatically shut down. The lead boiler shall shut down when the demand has been exceeded. Selection of the lead boiler shall be made either manually by means of a selector dial on the control cabinet or automatically as an electrical function of the programming control.

J. Sequence Of Operation For Damper Breeching

1. During the period when there is no call for burner operation by the boiler temperature operating control, the breeching damper shall be maintained

in the safe closed position. Safe closed position shall be understood to mean that the damper blade shafts have been rotated approximately 70° from the fully open position.

2. When the boiler temperature operating control calls for burner operation, the following sequence of operation shall take place:
3. On call for heat: combustion air intake motorized damper, combustion air damper at burner and sequence draft damper shall prove open, prior to pre-purge.
4. Sequence draft damper shall be driven to full open position during pre-purge.
5. For ignition, the sequence draft damper shall move to safe starting position. When the fuel valve opens, draft damper control is placed under automatic draft control.
6. During normal burner shutdown, the draft damper is driven open for post purge and is closed at the end of purging.
7. Safety burner shutdown shall cause the draft damper to remain where it was at the moment of shutdown until flame safeguard is reset.
8. Breeching damper shall move to safe starting position, which shall be adjustable in the field. On call for heat operation, the sequential draft damper cycle shall be initiated; on proving open, damper purge cycle shall start. Forced draft fan shall start. After pre-purge, safe starting draft must be proven in combustion chamber before light off can take place.
9. Forced draft fan shall be controlled through auxiliary fan relay in burner control panel.
10. As soon as safe starting draft is established, the flame failure control shall go through normal sequence of pilot ignition, pilot proving, main flame ignition and proving. When main flame is proved, draft controller shall modulate to maintain constant combustion chamber draft, within .01" W.C. of adjustable setting, regardless of firing rate or atmospheric conditions.
11. When boiler temperature operating control is satisfied, flame failure control shall de-energize the fuel solenoid valve, shutting off main flame. Forced draft fan shall continue to run for 15 second (minimum) Post Purge Period. During this period, breeching damper shall remain open to permit venting of gases. After completion of post purge period, breeching damper shall move to safe closed position.
12. At any time during an operating cycle, if the draft in the combustion chamber should fail for any reason, a signal light in the draft controller shall so indicate and if draft is not re-established within 5 to 7 seconds, the burner shall be shut down.
13. In case of flame or power failure or any emergency, burner shall shut down and breeching damper shall open fully and remain open. Burner and fan motors shall shut down with burner lockout. Draft sequence controller shall recycle after manual reset of flame failure control.

K. General

1. Control of the boiler and burner management systems is accomplished by Boiler Factory provided programmable logic controllers (PLC) and single loop controllers (SLC) being furnished by the respective vendors. Appropriate submittals and design documents for details and sequences of operations shall be provided by the vendor supplying the boiler and burner control management system.
2. Monitoring of the boiler plant equipment over the local operating BACNet network shall be accomplished using a Boiler Factory provided communications gateway. The gateway shall include communications cards and software drivers that import:
3. The burner management information from that system's PLC/SLC protocol
4. The combustion management information from that system's BACNet protocol or other non- BACNet protocol, to BACNet
5. Changes in the above systems and propagates them throughout the gateway upon changes of state or elapsed time.
6. The points that are to be monitored and displayed at the BMS are listed below.
7. Monitoring of the boiler plant equipment over the local operating network (BACNet) is accomplished through hardwired relays and/or auxiliary contacts as described below.
8. In general, for heating only applications, when outside temperature rises above 60°F, the TCC provided BACNet Controller shall de-energize all secondary hot water pumps. When outside temperature falls below 40°F, all secondary hot water pumps shall automatically start, regardless of the status of the boilers.

L. Boilers and Primary Hot Water Pumps (OEM Controlled)

1. The quantity of primary pumps shall exceed the quantity of boilers by one, allowing one primary pump to function as a spare.
2. The constant speed primary hot water pumps are to run in parallel. The number of primary hot water pumps in operation will depend on the number of boilers required to satisfy the heating load, and any pump may be assigned to any boiler, as described below. The system is designed with a spare primary pump. Changing pump/boiler associations on any operating boiler/pump will be allowed (in the case of a failure or required servicing of the pumps).
3. The system is designed to allow for one of the primary pumps to be designated as a standby pump, with the remaining pumps available to operate with any boiler, with no one pump dedicated to any specific boiler. Pump assignment to an associated boiler will be a manual function, initiated at the boiler control panel, and/or pump control panel. Should any boiler fail while in operation, its associated pump will shut off, its associated isolation valve will close, and an alarm will be initiated at the BMS, and the next pre-selected boiler in the sequence will begin a

start sequence.

4. The boiler system will have the ability to be started and stopped manually by the operator at a pushbutton station located in the boiler room. Upon a command to start the lead boiler, the Boiler Factory control panel will first command the selected lead primary water pump to start. After commanding the lead primary water pump to start and receiving positive motor running indication via a motor leg current switch, the Boiler Factory control panel will open the lead boiler's isolation valves and the boiler flow switch will enable the boiler. The Boiler Factory control panel will monitor end switches on the isolation valves and will initiate the start of the lag Boiler if the isolation valve limit switch indication is not received.
 5. If the lead boiler is unable to maintain the header leaving water setpoint for a 30-second to 15 minute time delay, then the Boiler Factory control panel will initiate the start of the Lag Boiler. The Boiler Factory control panel will first command the lag primary water pump to start. After commanding the lag primary water pump to start and receiving positive motor running indication via a motor leg current switch, the Boiler Factory control panel will open the lag boiler's isolation valves and the boiler flow switch will enable the boiler. The Boiler Factory control panel will monitor end switches on the isolation valves and will initiate the start of the next lag Boiler if the isolation valve limit switch indication is not received.
 6. When both the lead and lag boiler are at minimum heat output and able to make the header leaving water setpoint for a 10 minute time delay, the Boiler Factory control panel will initiate the stop sequence of the lag boiler. The lag primary water pump will be stopped after the isolation valves of the lag boiler have been commanded to close.
 7. The primary hot water supply header temperature sensor will control the staging of the boilers to satisfy the primary hot water set point. The primary hot water supply set point will be reset from the primary hot water return header sensor based on the return water load.
- M. The following monitoring or control points will be monitored, adjusted and/or alarmed by the DDC Controllers to the BMS

Primary Hot Water Supply Temperature	System Enable/Disable
Primary Hot Water Return Temperature	Hot Water Supply Temperature Setpoint
Hot water flow (GPM) Provide Flow meter	Outside Air Temperature
Expansion Tank High/Low Pressure	Boiler Operational Status (each boiler)

Hot Water Pump Status (Each Pump)	System Common Fault
Isolation Valve Open/Close (Each Valve)	Isolation Valve Status (Each Valve)

All alarm points shall be broadcasted to the Security Desk Front End (Honeywell System) located at the Building 8&9 Lobby Security Area.

3.4. DOMESTIC HOT WATER BOILER SEQUENCE OF OPERATION (B-3CF)

- A. Parallel positioning control (linkage-less): The parallel positioning control with air to fuel ratio controller shall include a master proportional controller which shall be connected to the load to sense the changes in load. The output of the controller shall transmit a signal simultaneously to the forced-draft damper(s) and fuel valve operators. A separate ratio-adjustment controller which has been calibrated for the system to prevent a fuel-rich mixture shall be utilized in the line to the fuel valve and shall vary the signal for the fuel flow proportionally to the air flow. This action shall change the fuel flow to establish the optimum air to fuel ratio. The parallel positioning control shall be capable of offsetting variations in pressure-drop characteristics in final control elements, fuel viscosity, air temperature, or barometric pressure. Stable burner operation shall exist when the continuous firing rate is from 25 percent to 100 percent of the maximum required firing rate. The turndown of the burner firing rate shall be made during the normal firing cycle without interruption or change of burner components. A capability for manual control shall be provided that allows a smooth transition between manual and automatic control.
- B. Modulating Direct Coupled Actuators: The parallel positioning master proportional controller shall control the combustion air dampers to maintain proper combustion as the fuel flow is varied in response to heating load. The modulating motors shall be equipped with a high-fire switch to prove that the motors have moved to the high-fire position during the pre-purge period, and with a low-fire switch to prevent burner ignition unless the modulating motors are at the low fire position. The parallel positioning control shall have external switches mounted on the driven members of the air dampers indicating high fire and low fire position during the purge period; also an external switch indicating low fire position of the fuel metering arrangement to prevent burner ignition unless both external low fire light off indicating switches are electrically closed. Also, the end switch on the sequential draft damper shall be interlocked with burner motor controls, to ensure 100% opening, prior to pre-purge.
- C. Modulating Controller: On the boiler, a modulating, combination temperature controller consisting of an analog header temperature sensor firing rate controller, On/Off Cut-In/Cut-Out controller, and Limit controller with manual reset shall modulate the burners. Varying boiler temperatures will actuate the parallel positioning master proportional controller that in turn will actuate the direct coupled actuators to maintain constant temperature. Direct coupled actuators shall modulate all combustion air dampers and all fuel valves (gas or oil).
- D. Temperature Operating Control

1. A temperature operating control shall be utilized on the boiler. Operating control shall function to stop the operation of the burner when the boiler temperature reaches its cutout setting and cause the burner to start when the temperature drops to a selected lower cut-in temperature.
2. The control installed on the header shall act as the primary operating control, and shall be set in accordance with the recommendation of the lead-lag control manufacturer. The temperature operating controls installed on the boilers shall all be set alike.
3. Temperature Limit Control: A temperature limit control on the boiler wired in series with all other control devices to the ungrounded conductor shall stop the burner and interrupt completely the power to the flame failure control if the boiler maximum temperature exceeds the high limit set point.

E. Flame Failure Control

1. The burner shall be provided with a flame failure (combustion safety) programming control which will de-energize all electrically operated fuel valves and burner equipment within four seconds, and actuate a visual alarm mounted on the control panel after an operating flame failure has occurred. Automatic start up and shutdown programming shall be a part of this safety equipment.
2. Pilot and main flame shall be detected by a lead sulphide infrared or ultraviolet scanner as per burner manufacturer's recommendation. Scanner shall be so located as not to be actuated by hot refractory or other hot body.
3. Control shall provide for prepurge prior to light off, proof of pilot before main fuel valves open, proof of main flame only during run, and post purge at the end of each firing period. Control shall affect a safety shutdown prior to the opening of the main fuel valves if the presence of the pilot flame has not been proven.
4. The pre-purge cycle shall be 100% air flow and shall have a duration equivalent to a minimum of 4 air changes. The post-purge cycle shall be 15 seconds minimum (adjustable).
5. In case of electrical power supply failure, control shall recycle automatically when power is restored. In case of safety shutdown, control shall not permit recycling of the burner equipment until after the manual operation of a reset button.
6. The control shall accomplish a safe start component check during each start.

F. Low Fire Hold Aquastat:

1. A low fire hold minimum temperature aquastat shall limit burner modulation to prevent boiler from modulating to high fire until water temperature reaches 140o F.

G. Sequence Of Operation For Damper Breeching

1. During the period when there is no call for burner operation by the boiler temperature operating control, the breeching damper shall be maintained in the safe closed position. Safe closed position shall be understood to mean that the damper blade shafts have been rotated approximately 70o from the fully open position.
2. When the boiler temperature operating control calls for burner operation, the following sequence of operation shall take place:
 - a. On call for heat: outdoor air intake damper, combustion air damper at burner and sequence draft damper shall prove open, prior to pre-purge.
 - b. Sequence draft damper shall be driven to full open position during pre-purge.
 - c. For ignition, the sequence draft damper shall move to safe starting position. When the fuel valve opens, draft damper control is placed under automatic draft control.
 - d. During normal burner shutdown, the draft damper is driven open for post purge and is closed at the end of purging.
 - e. Safety burner shutdown shall cause the draft damper to remain where it was at the moment of shutdown until flame safeguard is reset.
 - f. Breeching damper shall move to safe starting position, which shall be adjustable in the field. On call for heat operation, the sequential draft damper cycle shall be initiated; on proving open, damper purge cycle shall start. Forced draft fan and, where provided, induced draft fan shall start. After pre-purge, safe starting draft must be proven in combustion chamber before light off can take place.
 - g. Forced draft fan shall be controlled through auxiliary fan relay in burner control panel.
 - h. As soon as safe starting draft is established, the flame failure control shall go through normal sequence of pilot ignition, pilot proving, main flame ignition and proving. When main flame is proved, draft controller shall modulate to maintain constant combustion chamber draft, within .01" W.C. of adjustable setting (as recommended by boiler manufacturer), regardless of firing rate or atmospheric conditions.
 - i. When boiler temperature operating control is satisfied, flame failure control shall de-energize the fuel solenoid valve, shutting off main flame. Forced draft fan and shall continue to run for 15 second (minimum) Post Purge Period. During this period, breeching damper shall remain open to permit venting of gases. After completion of post purge period, breeching damper shall move to safe closed position.

- j. At any time during an operating cycle, if the draft in the combustion chamber should fail for any reason, a signal light in the draft controller shall so indicate and if draft is not re-established within 5 to 7 seconds, the burner shall be shut down.
- k. In case of flame or power failure or any emergency, burner shall shut down and breeching damper shall open fully and remain open. Burner and fan motors shall shut down with burner lockout. Draft sequence controller shall recycle after manual reset of flame failure control.

H. General:

- 1. Control of the boiler and burner management systems is accomplished by Boiler Factory provided programmable logic controllers (PLC) and single loop controllers (SLC) being furnished by the respective vendors. Appropriate submittals and design documents for details and sequences of operations shall be provided by the vendor supplying the boiler and burner control management system.
- 2. Monitoring of the boiler plant equipment over the local operating BACNet network shall be accomplished using a Boiler Factory provided communications gateway. The gateway shall include communications cards and software drivers that import:
 - a. The burner management information from that system's PLC/SLC protocol
 - b. The combustion management information from that system's protocol or other non- BACNet protocol, to BACNet..
 - c. Changes in the above systems and propagates them throughout the gateway upon changes of state or elapsed time.
 - d. The points that are to be monitored and displayed at the BMS are listed below.
 - e. Monitoring of the boiler plant equipment over the local operating network (BACNet) is accomplished through hardwired relays and/or auxiliary contacts as described below.

I. Boilers and Primary Hot Water Pump (OEM Controlled)

- 1. System is currently designed with one (1) boiler sized to handle 100% of the load and one (1) primary hot water pumps (no stand-by).
- 2. The boiler system will have the ability to be started and stopped manually by the operator at a pushbutton station located in the boiler room. Upon a command to start the boiler, the Boiler Factory control panel will first command the primary water pump to start. After commanding the primary water pump to start and receiving positive motor running indication via a motor leg current switch, the Boiler Factory control panel will open the lead boiler's isolation valves and the boiler flow switch will enable the boiler. The Boiler Factory control panel will monitor end switches on the isolation valves and will initiate the start of the lag Boiler if the isolation valve limit switch indication is not received.

3. The Boiler Factory control panel will first command the primary water pump to start. After commanding the primary water pump to start and receiving positive motor running indication via a motor leg current switch, the Boiler Factory control panel will open the boiler's isolation valves and the boiler flow switch will enable the boiler. The Boiler Factory control panel will monitor end switches on the isolation valves and will initiate the start of the next lag Boiler if the isolation valve limit switch indication is not received.
 4. The primary hot water supply header temperature sensor will control the boilers to satisfy the primary hot water set point. The primary hot water supply set point will be reset from the primary hot water return header sensor based on the return water load.
- J. Automatic Fuel Changeover: Changeover of fuels shall be accomplished automatically by means of a signal from the existing Digispan Fuel Changeover Panel.
1. The changeover system controls and wiring to the burner circuitry shall be in accordance with the specific requirements of the Gas Utility Company. The Contractor shall obtain from the Gas Utility Company their requirements for the burner gas-train and their accessories together with the approved type of outdoor thermostat required and shall also obtain approval of the Gas Utility for this portion of the installation. Changeover relay shall be mounted in the Master Control Panel.
 2. A pressure switch shall be installed at the inlet of the burner train and shall be wired in series with the outdoor changeover control. The wiring schematics, necessary for the installation of this switch, shall be provided by the burner manufacturer and coordinated and approved by the Gas Utility.
 3. While switching during firing from gas to oil or from oil to gas, there shall be a time delay interlock and the burners shall be so wired to go through a post purge and prepurge period before firing with the new fuel.
- K. The following monitoring or control points will be monitored, adjusted and/or alarmed by the DDC Controllers to the BMS

Primary Hot Water Supply Temperature	System Enable/Disable
Primary Hot Water Return Temperature	Hot Water Supply Temperature Setpoint
Hot water flow (GPM) Provide Flow meter	Outside Air Temperature

Expansion Tank High/Low Pressure	Boiler Operational Status (each boiler)
Hot Water Pump Status	System Common Fault
Isolation Valve Open/Close	Isolation Valve Status

All alarm points shall be broadcasted to the Security Desk Front End (Honeywell System) located at the Building 8&9 Lobby Security Area.

3.5. BREAK GLASS STATIONS:

- A. The Contractor shall provide in the locations shown on the HVAC Drawings, ASCO 1242 (minimum 2 pole) or approved equal, flush mounted break glass stations, with appropriate approved designation, for emergency shutdown of boilers. All wiring to control panels shall be by the Electrical Contractor.

3.6. TOXIC & COMBUSTIBLE GAS DETECTION SYSTEM

- A. Refer to specification section 236000.
- B. The following monitoring or control points will be monitored, adjusted and/or alarmed by the DDC Controllers to the BMS

CO Alarm	CO Concentration (ppm)
Natural Gas Alarm	Natural Gas Concentration (ppm)

All alarm points shall be broadcasted to the Security Desk Front End (Honeywell System) located at the Building 8&9 Lobby Security Area.



Adelaide Environmental Health Associates, Inc.

RENOVATION SURVEY FOR ASBESTOS AND LEAD BASED PAINT

PERFORMED AT:

**South Beach Psychiatric Center
Buildings 8-9
777 Seaview Island
Staten Island, New York 10305
OGS Project No. M2948
Adelaide Project No. LACE: 11065.00-IN**

PREPARED FOR:

**Paresh Doshi
Lilker Associates
1001 Avenue of the Americas
New York, New York 10018**

PREPARED BY:

**Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster, New York 10509**

DATED:

**April 6, 2011
November 15, 2011 (Revision)**

Submitted by:

**Stephanie A. Soter
President**

RENOVATION SURVEY FOR ASBESTOS AND LEAD BASED PAINT

TABLE OF CONTENTS

1.0	Background/Purpose	1
2.0	Executive Summary of Inspection Results	1
3.0	Asbestos Field Procedures and Analysis Methodology	3
3.1	Inspection	3
3.2	Sampling	3
3.3	Analysis	4
4.0	Conclusions and Recommendations	5
5.0	Areas not Accessible	5
6.0	Report Certifications	5
7.0	Transmittal of Building Survey	5

APPENDICES

Asbestos Analytical Results and Chain of Custody Forms	Appendix A
Lead XRF Results	Appendix B
Sample Location Maps	Appendix C
Personnel and Laboratory Certifications	Appendix D

1.0 BACKGROUND/PURPOSE

Adelaide Environmental Health Associates, Inc. (Adelaide) was retained by Lilker Associates to perform an investigative asbestos and lead based paint survey at South Beach Psychiatric Center, 777 Seaview Avenue, Staten Island, New York. The Facility is rehabilitating its boilers and hot water heater in building 8-9. This survey was based on the scope of work provided by NYSOGS as prepared by Lilker Associates. The inspection was performed on March 21, 2011 and November 11, 2011 by Adelaide representative Jason Fullum (certified asbestos inspector/project designer and EPA Lead Paint Inspector).

2.0 EXECUTIVE SUMMARY OF INSPECTION RESULTS

Following the scope of work that was given to us, Adelaide inspected the boiler rooms in the buildings listed above and due to the boilers being in operation, suspect materials integral to internal operation of boiler are assumed positive until boilers can be shut down to allow for testing. Adelaide collected thirty three (33) asbestos samples and twenty six (26) lead XRF shots from the above-mentioned areas on March 21, 2011 and an additional fifteen (15) asbestos samples on November 11, 2011. Zero (0) samples/homogenous areas came back positive for asbestos and zero (0) XRF readings tested positive for lead.

Summary of ACM

No Samples Tested Positive for Asbestos

Assumed Positive Suspect Materials

- *Gasket Material*
- *Electrical Wire Insulation*
- *Interior of Boilers and Water Heater*
- *Breechings*
- *Exhaust Stacks*
- *Boiler Room Door and Door Frame To Be Removed*
- *Friable Roof Deck – Tested Positive From a Previous Survey*

Summary of Lead Based Paint

No Samples Tested Positive for Lead

Negative Material List

The following is a list of the homogeneous areas that tested negative for asbestos during this inspection:

- CMU Mortar
- Concrete Column
- Concrete Pad
- Drywall
- Joint Compound
- L Shaped Covebase and Mastic
- Textured Coating on Ceiling

3.0 ASBESTOS FIELD PROCEDURES AND ANALYSIS METHODOLOGY

3.1 INSPECTION

Guidelines used for the inspection were established by the U.S. Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substances, DOC# 560/5-85-024 and 40 CFR Part 763, Asbestos Hazard Emergency Response Act (AHERA). Field information was organized as per the AHERA concept of a homogeneous area (HA); that is, suspect Asbestos Containing Materials (ACM) with similar age, appearance, and texture were grouped together, sampled and assessed for condition.

For the purposes of this inspection, suspect ACM has been placed in three material categories: thermal, surfacing, and miscellaneous.

Surfacing materials are those that are sprayed on, troweled on or otherwise applied to surfaces for fireproofing, acoustical, or decorative purposes (e.g., wall and ceiling plaster).

Thermal materials are those applied to heat pipes or other structural components to prevent heat loss or gain or prevent water condensation (e.g., pipe and fitting insulation, duct insulation, boiler flue).

Miscellaneous materials are interior building materials on structural components, structural members or fixtures, such as floor and ceiling tiles, etc. and do not include surfacing material or thermal system insulation.

3.2 SAMPLING

SURFACING MATERIALS

Surfacing materials were grouped into homogeneous sampling areas. A homogeneous area contains material that is uniform in color and texture and appears identical in every other respect. Materials installed at different times belong to different sampling areas. Homogeneous areas were determined on per floor basis.

The following protocol was used for determining the number of samples to be collected:

- At least three bulk samples were collected from each homogeneous area that is 1,000 square feet or less.
- At least five bulk samples were collected from each homogeneous area that is greater than 1,000 square feet but less than or equal to 5,000 square feet.
- At least seven bulk samples were collected from each homogeneous area that is greater than 5,000 square feet.

THERMAL SYSTEM INSULATION (TSI)

The concept of homogeneous sampling areas applies equally well to thermal insulation as to surfacing material. A "typical" building may contain multiple insulated pipe runs from any combination of the following categories:

- Hot water supply and/or return
- Cold water supply
- Chilled water supply
- Steam supply and/or return
- Roof or system drain

The following protocol was used for determining the number of samples to be collected.

- Collect at least three bulk samples from each homogeneous area of thermal system insulation.
- Collect at least one bulk sample from each homogeneous area of patched thermal system insulation if the patched section is less than 6 linear or square feet.
- In a manner sufficient to determine whether the material is ACM or not ACM, collect a minimum of three bulk samples from each homogeneous insulated mechanical system tee, elbow, and valve.

Bulk samples are not collected from any homogeneous area where the certified inspector has determined that the thermal system insulation is fiberglass, foam glass, or rubber.

MISCELLANEOUS MATERIALS

Miscellaneous materials are grouped into different homogeneous areas and at least two bulk samples are collected from each homogeneous area as per the clarification letter from the EPA and the Professional Abatement Contractors of New York, Inc in November of 2007.

3.3 ANALYSIS

Bulk samples of suspect ACM were analyzed by Polarized Light Microscopy (PLM) with dispersion staining, as described in 40CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS).

The New York State (NYS) Department of Health has recently revised the PLM Stratified Point Counting Method. The new method, Polarized Light Microscopy for Identifying and Quantitating Asbestos in Bulk Samples can be found as Item 198.1 in the Environmental Laboratory Accreditation Program (ELAP) Certification manual.

The State of New York ELAP has determined that analysis of NOB materials is not reliably performed by PLM. Therefore, if PLM yields negative results for a non-friable material, it must be confirmed by Transmission Electron Microscopy (TEM) analysis.

All NOB samples were initially analyzed by utilizing TEM methodology.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This survey concluded that the materials listed in Section 1.0 Executive Summary tested ***negative for the presence of asbestos and lead based paint. There is still assumed asbestos that will need to be tested prior to any renovation work.***

- *Gasket Material – Assumed Positive Until Tested Otherwise*
- *Electrical Wire Insulation – Assumed Positive Until Tested Otherwise*
- *Interior of Boilers and Water Heater – Assumed Positive Until Tested Otherwise*
- *Breechings – Assumed Positive Until Tested Otherwise*
- *Exhaust Stacks – Assumed Positive Until Tested Otherwise*
- *Boiler Room Door and Frame – Assumed Positive Until Tested Otherwise*
- *Friable Roof Deck – Tested Positive In A Previous Inspection*

5.0 AREAS NOT ACCESSIBLE

Adelaide Environmental Health Associates inspected and sampled materials which were visible and/or accessible to the survey team. Adelaide does not inspect physically inaccessible areas, such as between walls, above fixed ceilings, under concrete slabs, etc. This report makes no representations as to the content of these areas or materials. All materials present in those not accessible areas shall be assumed positive until tested.

6.0 REPORT CERTIFICATIONS

Adelaide Environmental Health Associates certifies that the information contained herein is based on the physical and visual inspections conducted by Adelaide and data collected during the inspection survey.

7.0 TRANSMITTAL OF BUILDING/STRUCTURE ASBESTOS SURVEY

One (1) copy of the results of the building/structure asbestos survey shall be immediately transmitted by the building/structure owner as follows:

(1) One (1) copy of the completed asbestos survey shall be sent by the owner or their agent to the local government entity charged with issuing a permit for such demolition, renovation, remodeling or repair work under applicable State or local laws.

(2) The completed asbestos survey for controlled demolition (as per Subpart 56-11.5) or pre-demolition asbestos projects shall also be submitted to the appropriate Asbestos Control Bureau district office.

(3) The completed asbestos survey shall be kept on the construction site with the asbestos notification and variance, if required, throughout the duration of the asbestos project and any associated demolition, renovation, remodeling or repair project.

APPENDIX A
ASBESTOS ANALYTICAL RESULTS
AND CHAIN OF CUSTODY FORMS

AmeriSci Job #: 21112714

Client Name: Adelaide Environmental Health

AmeriSci Job

Client Name

Table 1
Summary of Bulk Asbestos Analysis Results
 LACE:11065.00-IN; So. Beach PC; 777 Seaview Island, Staten Island, NY 10305

AmeriSci Sample #	AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	01	1	Location: B Level, Drywall - Storage Room Adj. To Boiler	---	---	---	---	NAD	NA
02	02	2	Location: B Level, Drywall - Storage Room Adj. To Boiler	---	---	---	---	NAD	NA
03	03	3	Location: B Level, Joint Compound - Storage Room Adj. To Boiler	---	---	---	---	NAD	NA
04	04	4	Location: B Level, Joint Compound - Storage Room Adj. To Boiler	---	---	---	---	NAD	NA
05	05	5	Location: 1st Floor, Gym - Drywall	---	---	---	---	NAD	NA
06	06	6	Location: 1st Floor, Gym - Drywall	---	---	---	---	NAD	NA
07	07	7	Location: 1st Floor, Gym - Joint Compound	---	---	---	---	NAD	NA
08	08	8	Location: 1st Floor, Gym - Joint Compound	---	---	---	---	NAD	NA
09	09	9	Location: 1st Floor, Gym - L. Shaped Cove Base - Black	0.262	40.5	5.0	54.6	NAD	NAD
10	10	10	Location: 1st Floor, Gym - L. Shaped Cove Base - Black	0.244	41.4	8.9	49.8	NAD	NAD
11	11	11	Location: 1st Floor, Gym - L. Shaped Cove Base - Mastic	0.210	45.7	19.0	35.2	NAD	NAD
12	12	12	Location: 1st Floor, Gym - L. Shaped Cove Base - Mastic	0.322	46.3	19.3	34.5	NAD	NAD
13	13	13	Location: 1st Floor, Gym - Textured Coating On Ceiling	---	---	---	---	NAD	NA
14	14	14	Location: 1st Floor, Gym - Textured Coating On Ceiling	---	---	---	---	NAD	NA
15	15	15	Location: 1st Floor, Gym - Textured Coating On Ceiling	---	---	---	---	NAD	NA

Analyzed by: IV
 **Quantitative / (Semi)Fully by I <1%: Quantitat
 ELAP Lab ID#:
 Warning Note: non-uniformly c

Reviewed By: _

See Reporting notes on last page

Table 1

Summary of Bulk Asbestos Analysis Results

LACE:11065.00-IN; So. Beach PC; 777 Seaview Island, Staten Island, NY 10305

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/IDS	** Asbestos % by TEM

Analyzed by: Madell E. Collins; Date Analyzed 11/15/2011

**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by EPA 600/M4-82-020 per 40 CFR or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation) or ELAP 198.4; for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "N/A = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses); ALPHA Lab # 102843, NVLAP Lab Code 200546-0, NYSDOH ELAP Lab ID#11480.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogeneous materials).

Reviewed By: _____



AmeriSci New York

117 EAST 30TH ST.
 NEW YORK, NY 10016
 TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Adelaide Environmental Health
 Attn: John Soter
 1511 Rte. 22 Suite C24
 Brewster, NY 10509

Date Received 11/14/11 AmeriSci Job # 211112714
 Date Examined 11/14/11 P.O. #
 ELAP # 11480 Page 1 of 3
 RE: LACE:11065.00-IN; So. Beach PC; 777 Seaview Island,
 Staten Island, NY 10305

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1 1	211112714-01 Location: B Level, Drywall - Storage Room Adj. To Boiler	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 3 %, Non-fibrous 97 %			
2 1	211112714-02 Location: B Level, Drywall - Storage Room Adj. To Boiler	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 3 %, Non-fibrous 97 %			
3 2	211112714-03 Location: B Level, Joint Compound - Storage Room Adj. To Boiler	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
4 2	211112714-04 Location: B Level, Joint Compound - Storage Room Adj. To Boiler	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
5 3	211112714-05 Location: 1st Floor, Gym - Drywall	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 3 %, Non-fibrous 97 %			

See Reporting notes on last page

AmeriSci Job #: 21112714

Page 2 of 3

Client Name: Adelaide Environmental Health

PLM Bulk Asbestos ReportLACE:11065.00-IN; So. Beach PC; 777 Seaview Island, Staten
Island, NY 10305

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
6 3	21112714-06 Location: 1st Floor, Gym - Drywall	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 3 %, Non-fibrous 97 %			
7 4	21112714-07 Location: 1st Floor, Gym - Joint Compound	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8 4	21112714-08 Location: 1st Floor, Gym - Joint Compound	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
9 5	21112714-09 Location: 1st Floor, Gym - L. Shaped Cove Base - Black	No	NAD (by NYS ELAP 198.6) by Tara L. Fisher on 11/14/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 54.6 %			
10 5	21112714-10 Location: 1st Floor, Gym - L. Shaped Cove Base - Black	No	NAD (by NYS ELAP 198.6) by Tara L. Fisher on 11/14/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 49.8 %			
11 6	21112714-11 Location: 1st Floor, Gym - L. Shaped Cove Base - Mastic	No	NAD (by NYS ELAP 198.6) by Tara L. Fisher on 11/14/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 35.2 %			

See Reporting notes on last page

AmeriSci Job #: **211112714**

Client Name: Adelaide Environmental Health

Page 3 of 3

PLM Bulk Asbestos Report

LACE:11065.00-IN; So. Beach PC; 777 Seaview Island, Staten Island, NY 10305

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
12 6	211112714-12 Location: 1st Floor, Gym - L. Shaped Cove Base - Mastic	No	NAD (by NYS ELAP 198.6) by Tara L. Fisher on 11/14/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 34.5 %			
13 7	211112714-13 Location: 1st Floor, Gym - Textured Coating On Ceiling	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
14 7	211112714-14 Location: 1st Floor, Gym - Textured Coating On Ceiling	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
15 7	211112714-15 Location: 1st Floor, Gym - Textured Coating On Ceiling	No	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 11/14/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Reporting Notes:

Analyzed by: Tara L. Fisher *Tara Fisher*
 *NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480);
 Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive. TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. AIHA Lab # 102843, RI Cert#AAL-094, CT Cert#PH-0186, Mass Cert#AA000054.

Reviewed By: _____

END OF REPORT

Adelaide Environmental Health Associates, Inc

1511 Route 22, Suite C24
 Brewster, NY 10509
 845-278-7710
 845-278-7750 - fax

Site Address: So Beach PC		Date: 11/11/11		Inspector(s) Jason Fullum		
777 Seaview Island		Project #: LACE:11065.00-IN				
Staten Island, NY 10305		Sample Location/Description				
Sample ID #	Homogeneous Area	Floor Level	Sample Location/Description	Quantity (In Feet)	Friable NonFriable	Condition g. d. sd
1	1	B	Drywall - Storage Room Adj. to Boiler	10SF	F	G
2	1	B		10SF	F	G
3	2	B	Joint Compound -	10SF	F	G
4	2	B		10SF	F	G
5	3	B	Gym - Drywall	10SF	F	G
6	3	B	↓ 211112714 -	10SF	F	G
7	4	B	↓	10SF	F	G
8	4	B	↓ Joint Compound	10SF	F	G
9	5	B	↓	10SF	F	G
10	5	B	↓ L Shaped Covebase - Black	20LF	NF	G
11	6	B	↓			
12	6	B	↓ - Mastik			

Relinquished by: *[Signature]*
 Received by: *Rose Rodriguez*
 Relinquished by: *Rose Rodriguez*
 Received by: *[Signature]*

Special Instructions/ Turnaround Time:
Test NOB's by PLM first
 Stop at 1st Positive per Homogenous Area
 Fax Results to 845-278-7750
 E-Mail Results to AdelaideLabResults@adelaideilc.com

24 hr TAT

11/14/2011 16:54
 2126793114
 AMERICSI
 PAGE 04/06

Table 1
Summary of Bulk Asbestos Analysis Results
 LACE:11065.00-IN; South Beach P.C.; 777 Seaview Ave., Staten Island, NY

AmerSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	1	1	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 8-9 - CMU Mortar								
02	2	1	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 8-9 - CMU Mortar								
03	3	2	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 8-9 - Concrete Column								
04	4	2	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 8-9 - Concrete Column								
05	5	3	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 8-9 - Concrete Pad								
06	6	3	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 8-9 - Concrete Pad								
07	7	4	0.504	20.4	44.4	35.1	NAD	NA
Location: Floor B; Bldg. 11 - 12 x 12 Brown Floor Tile								
08	8	4	0.466	20.6	58.6	20.8	NAD	NA
Location: Floor B; Bldg. 11 - 12 x 12 Brown Floor Tile								
09	9	5	0.206	89.8	8.3	1.9	NAD	NA
Location: Floor B; Bldg. 11 - 12 x 12 Brown Floor Tile - Mastic								
10	10	5	0.332	89.2	7.2	3.6	NAD	NA
Location: Floor B; Bldg. 11 - 12 x 12 Brown Floor Tile - Mastic								
11	11	6	0.569	31.5	34.3	34.3	NAD	NA
Location: Floor B; Bldg. 11 - 4" Brown Cove Base								
12	12	6	0.578	31.3	36.7	32.0	NAD	NA
Location: Floor B; Bldg. 11 - 4" Brown Cove Base								
13	13	7	0.605	43.8	11.7	44.5	NAD	NA
Location: Floor B; Bldg. 11 - 4" Brown Cove Base - Mastic								
14	14	7	0.669	43.3	12.1	44.5	NAD	NA
Location: Floor B; Bldg. 11 - 4" Brown Cove Base - Mastic								
15	15	8	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Drywall								
16	16	8	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Drywall								

See Reporting notes on last page

Table 1
Summary of Bulk Asbestos Analysis Results
 LACE:11065.00-IN; South Beach P.C.; 777 Seaview Ave., Staten Island, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	17	9	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Joint Compound								
18	18	9	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Joint Compound								
19	19	10	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Brick Mortar								
20	20	10	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Brick Mortar								
21	21	11	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - CMU Mortar								
22	22	11	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - CMU Mortar								
23	23	12	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Concrete Pad								
24	24	12	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Concrete Pad								
25	25	13	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Mudded Fitting On Fiberglass								
26	26	13	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Mudded Fitting On Fiberglass								
27	27	13	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Mudded Fitting On Fiberglass								
28	28	14	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Cementitious Ceiling								
29	29	14	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Cementitious Ceiling								
30	30	14	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Cementitious Ceiling								
31	31	15	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Cold Water Line - Mudded Elbows								
32	32	15	---	---	---	---	NAD	NA
Location: Floor B; Bldg. 11 - Cold Water Line - Mudded Elbows								

AmeriSci Job #: 211033844

Client Name: Adelaida Environmental Health

Table I
Summary of Bulk Asbestos Analysis Results
 LACE:11065.00-IN; South Beach P.C.; 777 Seaview Ave., Staten Island, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/MS	*** Asbestos % by TEM
33	33	15					NAD	NA

Location: Floor 8; Bldg. 11 - Cold Water Line - Muddied Elbows

Analyzed by: John P. Krubiadis Date Analyzed 3/23/2011

**Quantitative Analysis (Semi/Full)-Bulk Asbestos Analysis-PLM by EPA 600/M4-82-020 per 40 CFR or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation); or ELAP 198.4 for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only. Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses); AIHA Lab # 102843, NVLAP Lab Code 200546-0, NYSDOH ELAP LAB ID 11480.

Warning Note: PLM limitation, only TEM with resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogeneous materials).

Reviewed By: 

Adelaide Environmental Health Associates, Inc

1511 Route 22, Suite C24
 Brewster, NY 10509
 845-278-7710
 845-278-7750 - fax

211033844

Site Address: South Beach Pl.		Date: 3/21/11	Inspector(s): Jason Truini	Condition
777 Ervin Ave		Project #: LACE: 1065.00-EN		g, d, sd
5 State Island, NY		Sample Location/Description	Quantity (in Feet)	Frangible
Sample ID #	Homogeneous Area	Floor Level		
1	1	Bldg. 8-9 - CMU marker	105F	NP 6
2	1	↓	105F	NP 6
3	2	- Concrete Column	105F	NP 6
4	2	↓	105F	NP 6
5	3	- Concrete Pd	105F	NP 6
6	3	↓	105F	NP 6
7	4	Bldg. 11 - 12x12 Brown Floor Tile	165F	NP 6
8	4	↓	165F	NP 6
9	5	- 12x12 Brown Floor Tile - Mosaic	165F	NP 6
10	5	↓	165F	NP 6
11	6	- 4" Brown Cove base	16LF	NP D
12	6	↓	16LF	NP D

Relinquished by:
 Received by: *[Signature]*
 Relinquished by: *[Signature]* 03-22-11 1056
 Received by:

Special Instructions/ Turnaround Time: 24 HR T.A.

Test NOB's by PLM first
 Stop at 1st Positive per Homogenous Area
 Fax Results to 845-278-7750
 E-Mail Results to AdelaideLabResults@adelaideic.com

Adelaide Environmental Health Associates, Inc

1511 Route 22, Suite C24
 Brewster, NY 10509
 845-278-7710
 845-278-7750 - fax

211033844

Site Address: South Beach P.L.C. 277 Seaview Ave. Staten Island, NY		Date: 3/21/11	Inspector(s): <i>Asen Fullan</i>			
Sample ID #	Homogeneous Area	Floor Level	Sample Location/Description	Quantity (In Feet)	Frangible	Condition
13	7	B	Bldg. 11 - 4" Brn Core base - Marble	16LF	MF	D
14	7	B	↓	16LF	MF	D
15	8	B	- Day wall	200SF	R	G
16	8	B	↓	200SF	R	G
17	9	B	- Joint Compound	200SF	F	G
18	9	B	↓	200SF	F	G
19	10	B	- Brick Mark	100SF	MF	G
20	10	B	↓	100SF	MF	G
21	11	B	- CMU Mark	100SF	MF	G
22	11	B	↓	100SF	MF	G
23	12	B	- Concrete Rd	32SF	MF	G
24	12	B	↓	32SF	MF	G

Special Instructions/ Turnaround Time:
Test NOB's by PLM first
 Stop at 1st Positive per Homogenous Area
 Fax Results to 845-278-7750
 E-Mail Results to AdelaideLabResults@adelaidellc.com

Refractured by: *[Signature]*
 Received by: *KWAY MURK* 03-22-11 10560
 Requisitioned by:
 Received by:


AmeriSci New York

117 EAST 30TH ST.

NEW YORK, NY 10016

TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Adelaide Environmental Health

Attn: John Soter

1511 Rte. 22 Suite C24

Brewster, NY 10509

Date Received 03/22/11

Date Examined 03/23/11

ELAP # 11480

AmeriSci Job # 211033844

P.O. #

Page 1 of 6

RE: LACE:11065.00-IN; South Beach P.C.; 777 Seaview Ave.,
Staten Island, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1 1 Location: Floor B; Bldg. 8-9 - CMU Mortar	211033844-01	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
2 1 Location: Floor B; Bldg. 8-9 - CMU Mortar	211033844-02	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
3 2 Location: Floor B; Bldg. 8-9 - Concrete Column	211033844-03	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
4 2 Location: Floor B; Bldg. 8-9 - Concrete Column	211033844-04	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
5 3 Location: Floor B; Bldg. 8-9 - Concrete Pad	211033844-05	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

See Reporting notes on last page

AmeriSci Job #: 211033844

Client Name: Adelaide Environmental Health

Page 2 of 6

PLM Bulk Asbestos ReportLACE:11065.00-IN; South Beach P.C.; 777 Seaview Ave.,
Staten Island, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
6 3	211033844-06 Location: Floor B; Bldg. 8-9 - Concrete Pad	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Gray, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
7 4	211033844-07 Location: Floor B; Bldg. 11 - 12 x 12 Brown Floor Tile	No	NAD (by NYS ELAP 198.6) by Karol H. Lu on 03/23/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 35.1 %			
8 4	211033844-08 Location: Floor B; Bldg. 11 - 12 x 12 Brown Floor Tile	No	NAD (by NYS ELAP 198.6) by Karol H. Lu on 03/23/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 20.8 %			
9 5	211033844-09 Location: Floor B; Bldg. 11 - 12 x 12 Brown Floor Tile - Mastic	No	NAD (by NYS ELAP 198.6) by Karol H. Lu on 03/23/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 1.9 %			
10 5	211033844-10 Location: Floor B; Bldg. 11 - 12 x 12 Brown Floor Tile - Mastic	No	NAD (by NYS ELAP 198.6) by Karol H. Lu on 03/23/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 3.6 %			
11 6	211033844-11 Location: Floor B; Bldg. 11 - 4" Brown Cove Base	No	NAD (by NYS ELAP 198.6) by Karol H. Lu on 03/23/11
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 34.3 %			

See Reporting notes on last page

AmeriSci Job #: 211033844

Client Name: Adelaide Environmental Health

Page 3 of 6

PLM Bulk Asbestos ReportLACE:11065.00-IN; South Beach P.C.; 777 Seaview Ave.,
Staten Island, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
12 6	211033844-12 Location: Floor B; Bldg. 11 - 4" Brown Cove Base	No	NAD (by NYS ELAP 198.6) by Karol H. Lu on 03/23/11
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 32 %			
13 7	211033844-13 Location: Floor B; Bldg. 11 - 4" Brown Cove Base - Mastic	No	NAD (by NYS ELAP 198.6) by Karol H. Lu on 03/23/11
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 44.5 %			
14 7	211033844-14 Location: Floor B; Bldg. 11 - 4" Brown Cove Base - Mastic	No	NAD (by NYS ELAP 198.6) by Karol H. Lu on 03/23/11
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 44.5 %			
15 8	211033844-15 Location: Floor B; Bldg. 11 - Drywall	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Brown, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Fibrous glass Trace, Non-fibrous 100 %			
16 8	211033844-16 Location: Floor B; Bldg. 11 - Drywall	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Fibrous glass Trace, Non-fibrous 100 %			
17 9	211033844-17 Location: Floor B; Bldg. 11 - Joint Compound	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: White/Beige, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

See Reporting notes on last page

AmeriSci Job #: 211033844

Client Name: Adelaide Environmental Health

Page 4 of 6

PLM Bulk Asbestos ReportLACE:11065.00-IN; South Beach P.C.; 777 Seaview Ave.,
Staten Island, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18 9	211033844-18 Location: Floor B; Bldg. 11 - Joint Compound	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: White/Beige, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
19 10	211033844-19 Location: Floor B; Bldg. 11 - Brick Mortar	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
20 10	211033844-20 Location: Floor B; Bldg. 11 - Brick Mortar	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
21 11	211033844-21 Location: Floor B; Bldg. 11 - CMU Mortar	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
22 11	211033844-22 Location: Floor B; Bldg. 11 - CMU Mortar	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
23 12	211033844-23 Location: Floor B; Bldg. 11 - Concrete Pad	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

See Reporting notes on last page

AmeriSci Job #: 211033844

Client Name: Adelaide Environmental Health

Page 5 of 6

PLM Bulk Asbestos ReportLACE:11065.00-IN; South Beach P.C.; 777 Seaview Ave.,
Staten Island, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
24 12	211033844-24 Location: Floor B; Bldg. 11 - Concrete Pad	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
25 13	211033844-25 Location: Floor B; Bldg. 11 - Mudded Fitting On Fiberglass	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %			
26 13	211033844-26 Location: Floor B; Bldg. 11 - Mudded Fitting On Fiberglass	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 5 %, Non-fibrous 95 %			
27 13	211033844-27 Location: Floor B; Bldg. 11 - Mudded Fitting On Fiberglass	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 5 %, Non-fibrous 95 %			
28 14	211033844-28 Location: Floor B; Bldg. 11 - Cementitious Ceiling	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass Trace, Non-fibrous 100 %			
29 14	211033844-29 Location: Floor B; Bldg. 11 - Cementitious Ceiling	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

See Reporting notes on last page

AmeriSci Job #: 211033844

Client Name: Adelaide Environmental Health

Page 6 of 6

PLM Bulk Asbestos ReportLACE:11065.00-IN; South Beach P.C.; 777 Seaview Ave.,
Staten Island, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
30 14	211033844-30 Location: Floor B; Bldg. 11 - Cementitious Ceiling	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
31 15	211033844-31 Location: Floor B; Bldg. 11 - Cold Water Line - Mudded Elbows	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %			
32 15	211033844-32 Location: Floor B; Bldg. 11 - Cold Water Line - Mudded Elbows	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %			
33 15	211033844-33 Location: Floor B; Bldg. 11 - Cold Water Line - Mudded Elbows	No	NAD (by NYS ELAP 198.1) by Karol H. Lu on 03/23/11
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %			

Reporting Notes:Analyzed by: Karol H. Lu 

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 800/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. AIHA Lab # 102843.

Reviewed By: _____

END OF REPORT _____

Adelaide Environmental Health Associates, Inc
 1511 Route 22, Suite C24
 Brewster, NY 10509
 845-278-7710
 845-278-7750 - fax

211033844

Site Address: South Beach Plc. 777 Service Ave Staten Island, NY		Date: 3/21/11	Inspector(s): Jason Fiume			
Sample ID #	Homogeneous Area	Floor Level	Sample Location/Description	Quantity (In Feet)	Non-Frangible	Condition
1	1	B	Bldg. 8-9 - CMU marker	105F	NF	G
2	1	B	↓	105F	NF	G
3	2	B		- Concrete Column.	105F	NF
4	2	B	↓	105F	NF	G
5	3	B		- Concrete P22	105F	NF
6	3	B	↓	105F	NF	G
7	4	B		Bldg. 11 - 12x12 Brown Floor Tile	165F	NF
8	4	B	↓	165F	NF	G
9	5	D		- 12x12 Brown Floor Tile - Mesh	165F	NF
10	5	D	↓	165F	NF	G
11	6	B		- 4" Brown Cove base	16LF	NF
12	6	B	↓	16LF	NF	D

Relinquished by: *[Signature]*
 Received by: *[Signature]* 03.22.11 1056
 Relinquished by:
 Received by:

Special Instructions/ Turnaround Time: 24 HR T.A.
Test NOB's by PLM first
 Stop at 1st Positive per Homogenous Area
 Fax Results to 845-278-7750
 E-Mail Results to AdelaideLabResults@adelaideilc.com

211033844

Sample ID #	Homogeneous Area	Floor Level	Sample Location/Description	Quantity (in Feet)	Frangible	Condition g, d, sd
13	7	B	Bldg. 11 - 4" Bran Core base - Marble	16LF	MF	D
14	7	B	↓	16LF	MF	D
15	8	B	↓	200SF	F	G
16	8	B	- Dry wall	200SF	F	G
17	9	B	↓	200SF	F	G
18	9	B	- Joint Compound	200SF	F	G
19	10	B	↓	200SF	F	G
20	10	B	- Brick Marker	100SF	MF	G
21	11	B	↓	100SF	MF	G
22	11	B	- CMU Marker	100SF	MF	G
23	12	B	↓	100SF	MF	G
24	12	B	- Concrete Pad	325SF	MF	G
			↓	325SF	MF	G

Site Address: South Beach R.C., 277 Service Ave., Staten Island NY

Date: 3/21/11 Inspector(s): JASN Fullin

Project #: LACE: 11065-00-10

Special Instructions/ Turnaround Time: 24 HR. T.A.

Test NOB's by PLM first
 Stop at 1st Positive per Homogenous Area
 Fax Results to 845-278-7750
 E-Mail Results to AdelaideLabResults@adelaideilc.com

Relinquished by: [Signature]
 Received by: [Signature]
 Relinquished by: [Signature]
 Received by: [Signature]

03/23/2011 08:55 2126793114 AMERISCI OGS Project No. S4884

211033844

Sample ID #	Homogeneous Area	Floor Level	Sample Location/Description	Quantity (in Feet)	Reliable	Condition g, d, sd
25	B3	B	Bldg. 11 - Mudded Fibbing in Fiberglass	25LF	F	D
26	B3	B	↓	25LF	F	D
27	B3	B	↓	25LF	F	D
28	B4	B	↓ - Cementitious Ceiling	100SF	F	SD
29	B4	B	↓	100SF	F	SD
30	B4	B	↓	100SF	F	SD
31	B5	B	↓ - Cold Water line - Mudded & lbs	10LF	F	G
32	B5	B	↓	10LF	F	G
33	B5	B	↓	10LF	F	G

Site Address: South Beach P.C.
 777 Seaview Ave.
 Staten Island, NY

Date: 3/21/11
 Inspector(s): Aaron Furum

Project #: LAE: 1105.00-IV

Relinquished by: [Signature]
 Received by: Yolanda M. [Signature] 03-22-11 1056
 Relinquished by:
 Received by:

24 HRTA

Special Instructions/ Turnaround Time:
Test NOB's by PLM first
 Stop at 1st Positive per Homogenous Area
 Fax Results to 845-278-7750
 E-Mail Results to AdelaideLabResults@adelaideinc.com

APPENDIX B
LEAD XRF RESULTS

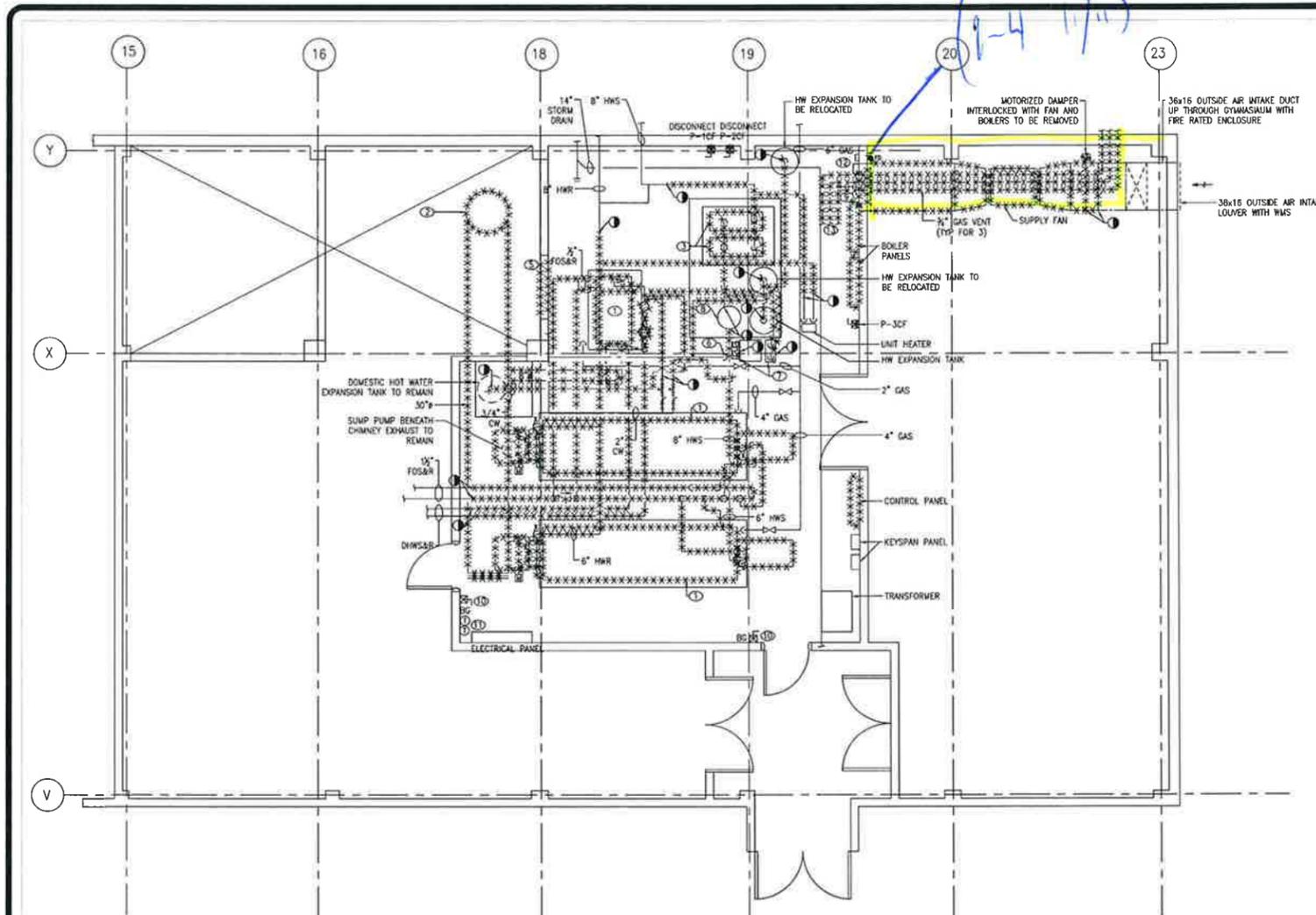


Lead-Based Paint Testing Data Sheet

Date: 3/21/11 Inspector: Jason Fuller
 Project No.: LACEY 11065.00-2m Client Project No.: _____
 Project Name: Sark Beach P.L. Work Area: Boiler Room
 Bldg No.: 8-9/11

Assay No.	Room	Component	Color	Substrate	XRF Reading (mg/cm ²)	Classification (Pos/Neg/Inc)
1L		CALIBRATE			1.1	
2L					1.1	
3L					1.0	
4L	Boiler Rm	Wall	White	CMU	<0.1	
5L	↓	"	"	Concrete	<0.2	
6L	↓	Flwr	Gray	"	0.0	
7L	↓	Pad	"	"	0.1	
8L	↓	Boiler Panel	"	Metal	<0.1	
9L	↓	Water Heater Panel	"	"	<0.2	
10L	↓	Water Heater Controls	Blue	"	<0.1	
11L	Boiler Rm	Wall	White	CMU	<0.2	
12L	↓	"	Gray	"	<0.1	
13L	↓	Gen Pad	"	Concrete	<0.4	
14L	↓	Flwr	"	"	<0.1	
15L	↓	Wall	White	Brick	<0.2	
16L	↓	"	Gray	"	>0.1	
17L	↓	"	White	Drywall	<0.4	
18L	Boiler Rm	Water Heater Flwr	Gray	Concrete	<0.2	
19L	↓	Wall	White	Drywall	<0.1	
20L	↓	"	Gray	"	<0.2	

APPENDIX C
SAMPLE LOCATION MAPS



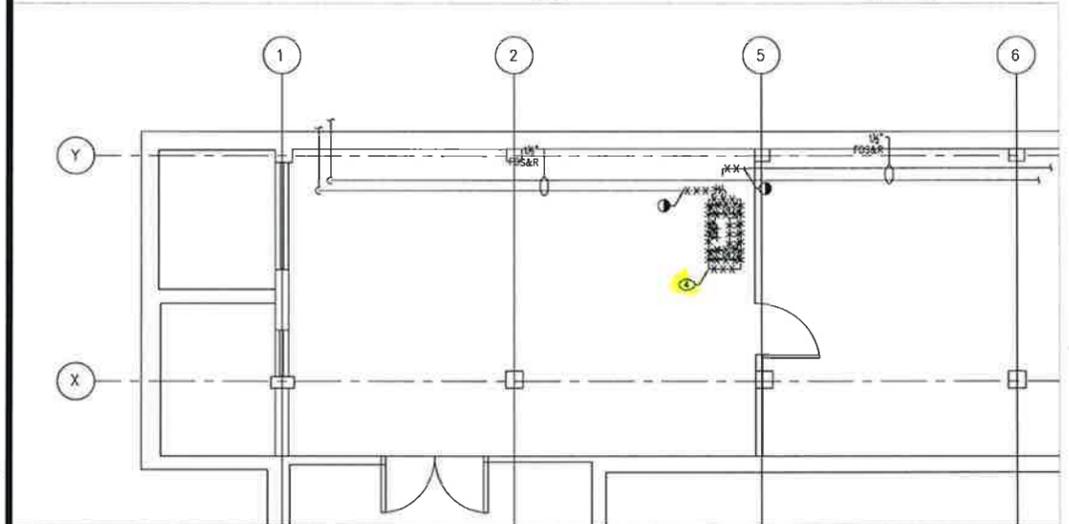
DRAWING NOTES

- CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING PIPING AND DUCTWORK SIZES AND LOCATIONS. EXACT POINT OF CONNECTIONS AND DISCONNECTIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- PROVIDE TEMPORARY CAPS FOR ALL PIPING DISCONNECTIONS.
- REMOVE ALL ABANDONED PIPING AND DEBRIS AS DIRECTED BY THE DIRECTOR'S REPRESENTATIVE.
- COORDINATE WITH DIRECTOR'S REPRESENTATIVE REGARDING DEVICES AND EQUIPMENT TO BE TURNED OVER TO FACILITY FOR USE AS SPARES.

KEY NOTES

- REMOVE (3) EXISTING BOILERS IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO CONTROL WIRING (EXISTING KEYSPAN DIGISPAN PANEL TO REMAIN), PIPING, CONTROLS, CHIMNEY, SUPPORTS AND ACCESSORIES.
- REMOVE EXISTING 30" CHIMNEY IN ITS ENTIRETY INCLUDING BLACK IRON PLENUM, BOILER HEADER AND CONNECTIONS TO BOILERS. EXISTING CHIMNEY FRAMING THROUGH ROOF TO REMAIN.
- REMOVE EXISTING HEATING HOT WATER PUMPS IN THEIR ENTIRETY INCLUDING BUT NOT LIMITED TO VALVING, CONTROLS, SUPPORTS AND ACCESSORIES.
- EXISTING FUEL OIL PUMP SET TO BE REMOVED IN ITS ENTIRETY. REMOVE FUEL OIL PIPING AS SHOWN.
- REMOVE EXISTING 48x16 COMBUSTION AIR RELIEF DAMPER, INCLUDING PNEUMATIC ACTUATOR.
- 1" CW DOWN TO HOSE BIB
- (E) CHEMICAL FEEDS UNITS TO REMAIN. DISCONNECT FROM HOT WATER PIPING AS SHOWN.
- (E) AIR SEPARATOR TO REMAIN. DISCONNECT AND REMOVE ATTACHED PIPING AS SHOWN.
- 36x16 OPEN ENDED DUCT
- REMOVE EXISTING BREAK GLASS STATION.
- EXISTING THERMOSTATS TO BE RELOCATED.
- EXISTING EYEWASH STATION AND CLEAN UP KIT TO BE RELOCATED.
- EXISTING GAS VENTS TO BE REMOVED IN THEIR ENTIRETY.

1 BOILER ROOM PART PLAN - DEMOLITION
Scale: 1/4" = 1'-0"



2 GENERATOR ROOM PART PLAN - DEMOLITION
Scale: 1/4" = 1'-0"

OGS
NYS OFFICE OF GENERAL SERVICES
Serving New York

ANDREW M. CUOMO
Governor

JAMES M. DAVIES A.I.A.
Deputy Commissioner, Design and Construction

CONSULTANT

Lilker Associates
Mechanical and Electrical Engineers
801 Avenue of the Americas
New York, NY 10016
Tel: 212 679 4000
Fax: 212 679 1299
www.lilker.com

Lilker

Genzer Kronick + Valcarcel, Architects, PC
483 Park Avenue South
New York, NY 10016
Tel: 212 679 6362
Fax: 212 679 5817

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

CONTRACT: **MECHANICAL**

TITLE: **REPLACE BOILER BUILDING No. 8&9**

LOCATION: **SOUTH BEACH PSYCHIATRIC CENTER
777 SEAVIEW AVENUE
STATEN ISLAND, NEW YORK 10305**

CLIENT: **OFFICE OF GENERAL SERVICES**

KEY PLAN

NORTH

CENTRAL FACILITIES

AREA OF WORK

06/12/2011	ISSUED FOR CONSTRUCTION
04/28/2011	ISSUED FOR OGS REVIEW

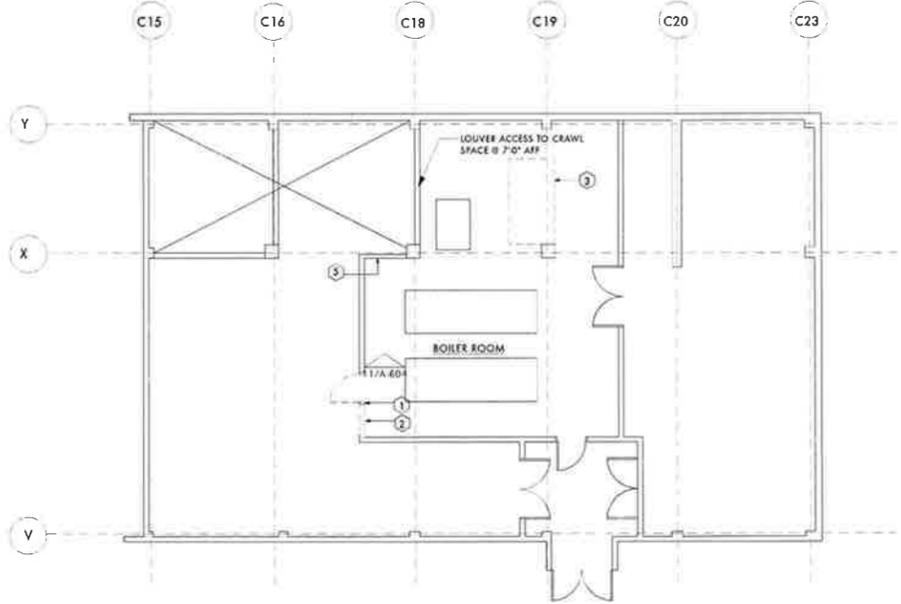
PROJECT NUMBER:	M2048-H
DESIGNED BY:	SC
DRAWN BY:	LA
FIELD CHECK:	SC
APPROVED:	

SHEET TITLE: **HVAC DEMOLITION BASEMENT**

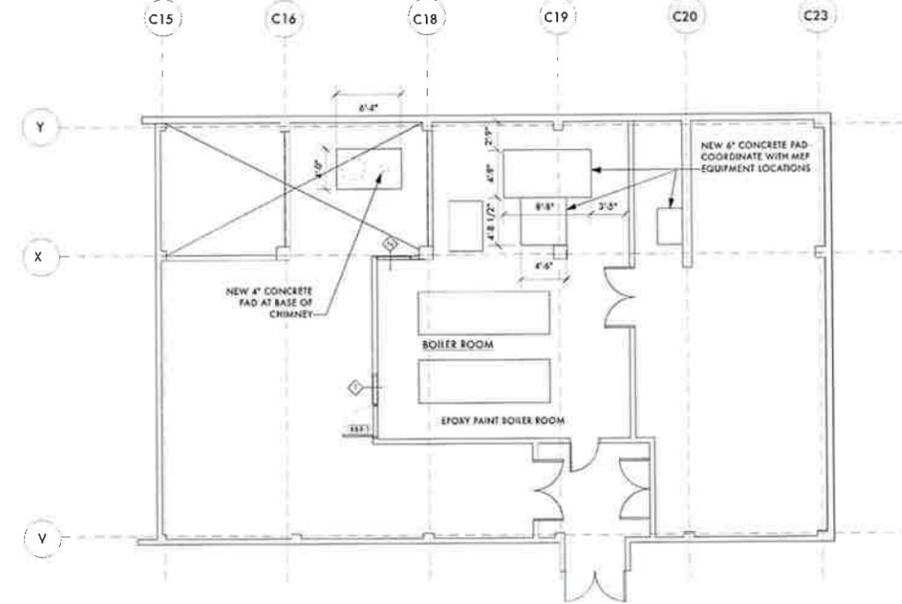
DRAWING NUMBER: **M-100**

SHEET 4 OF 11

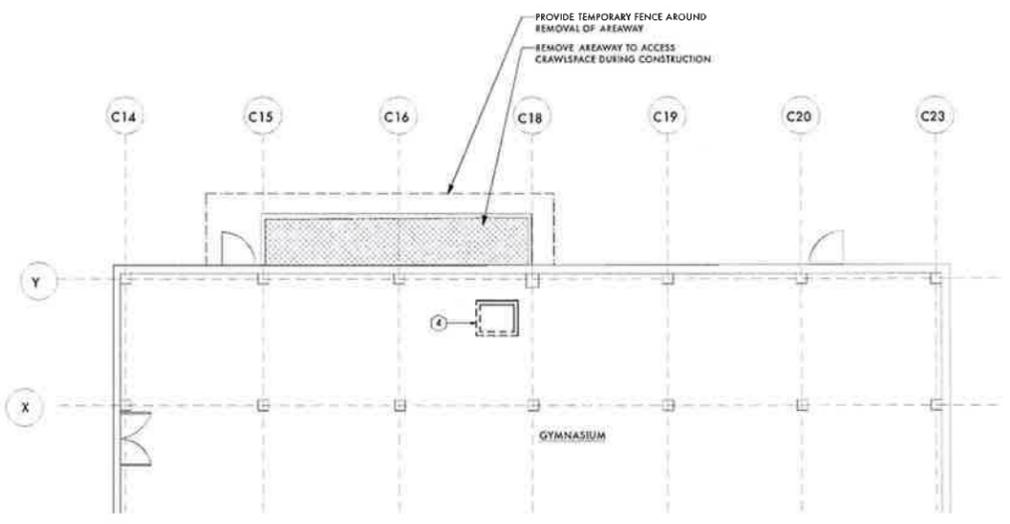
36x24 FLOOR SLAB



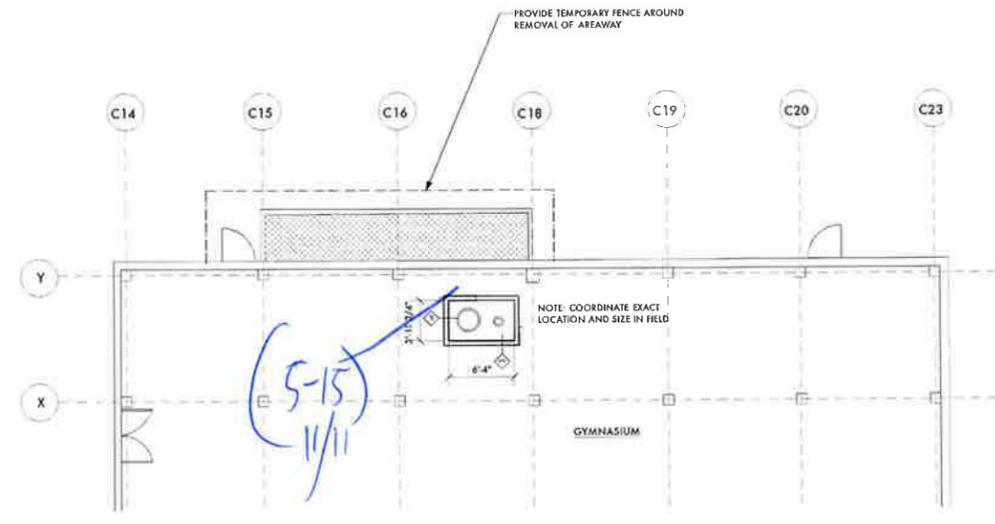
1 BASEMENT DEMOLITION PLAN
Scale: 1/8" = 1'-0"



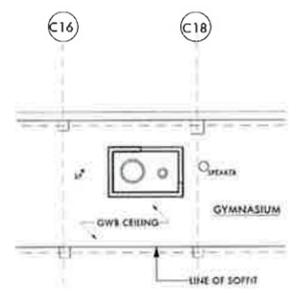
2 BASEMENT CONSTRUCTION PLAN
Scale: 1/8" = 1'-0"



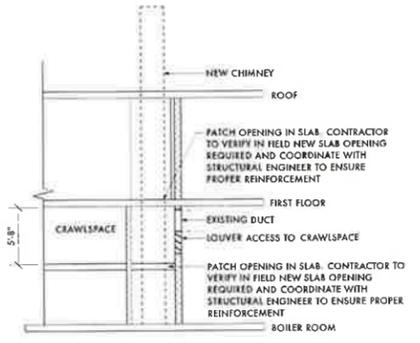
3 1ST FLOOR DEMOLITION PLAN
Scale: 1/8" = 1'-0"



4 FIRST FLOOR CONSTRUCTION PLAN
Scale: 1/8" = 1'-0"



5 FIRST FLOOR RCP PART PLAN
Scale: 1/8" = 1'-0"



A SECTION
Scale: 1/8" = 1'-0"

CONSTRUCTION NOTES

- STUD SIZES ARE SIZED AS A MINIMUM ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE STRUCTURAL PERFORMANCE AND SUFFICIENT STUD THICKNESS TO ACCOMMODATE RECESSED DEVICES, JUNCTION BOXES, BLOCKING AND PLUMBING.
- DO NOT SCALE OFF THIS DRAWING FOR CONSTRUCTION.
- EXISTING CONDITIONS & DIMENSIONS SHOWN ARE TAKEN FROM FIELD SURVEYS & EXISTING DOCUMENTATION AS AVAILABLE AND SHALL BE VERIFIED IN FIELD BY ALL CONTRACTORS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ARCHITECTS ATTENTION.
- GC TO SURVEY THE SITE BEFORE COMMENCEMENT OF DEMOLITION TO ENSURE THAT THERE ARE NO STRUCTURAL ELEMENTS INFLUENCED BY THE SCOPE OF WORK. NOTIFY OWNER AND ARCHITECT IMMEDIATELY OF ANY CONCERNS.

DEMOLITION NOTES

--- TO BE REMOVED. SEE DEMOLITION NOTES BELOW FOR ADDITIONAL INFORMATION

▭ EXISTING CONSTRUCTION TO REMAIN

- REMOVE DOOR AND FRAME INCLUSIVE OF HARDWARE
- CREATE NEW OPENING FOR NEW 36" DOOR AND FRAME. RELOCATE THERMOSTATS TO ADJACENT WALL. RELOCATE EXISTING EXIT SIGN TO BE ABOVE NEW DOOR LOCATION
- DEMOLISH EXISTING CONCRETE PAD, PREP AREA FOR NEW ENLARGED 6" CONCRETE PAD
- DEMO WALL INCLUSIVE OF TRACKS, RUNNERS, AND ENLARGE FLOOR AND ROOF OPENING FOR NEW CHIMNEYS. COORDINATE OPENING WITH CHIMNEY REQUIRED CLEARANCES
- DEMO EXISTING BLOCK WALL FOR NEW CHIMNEY INSTALLATION

NOTES:

- REFER MEP DOCUMENTS FOR EXTENT OF MEP DEMOLITION.
- ALLOW TO PATCH AND PAINT ALL DISRUPTED SURFACES
- EXISTING ROOF IS UNDER WARRANTY, ROOFING CONTRACTOR TO ENSURE WORK WILL NOT VOID WARRANTY



OGS
NYS OFFICE OF GENERAL SERVICES
Serving New York
ANDREW M. CUOMO
Governor
JAMES M. DAVIES, A.L.A.
Deputy Commissioner, Design and Construction

CONSULTANT
Lilker Associates
1001 Avenue of the Americas
New York, NY 10018
tel 212.695.1000
fax 212.695.1299
www.lilker.com

Gerner Kronick + Valcarlos, Architects, PC
443 Park Avenue South,
New York, NY 10018
Tel 212-679-4302
Fax 212-679-5877

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

CONTRACT
MECHANICAL
TITLE
REPLACE BOILER
BUILDING No. 8&9
LOCATION
SOUTH BEACH PSYCHIATRIC CENTER
777 SEAVIEW AVENUE
STATEN ISLAND, NEW YORK 10305
CLIENT
OFFICE OF GENERAL SERVICES



MARK	DATE	DESCRIPTION
	09/12/2011	ISSUED FOR CONSTRUCTION
	04/26/2011	ISSUED FOR O&S REVIEW
PROJECT NUMBER:	M2948-H	
DESIGNED BY:		
DRAWN BY:		
FIELD CHECK:		
APPROVED:		

SHEET TITLE
**BUILDING 8 & 9
BASEMENT DEMOLITION AND
CONSTRUCTION PLANS**
DRAWING NUMBER:
A-101.00
SHEET 1 OF 3

CONSULTANT

Lilker Associates

1001 Avenue of the Americas
New York, NY 10018
tel 212.695.1000
fax 212.695.1299
www.lilker.com



Gerner Kronick + Valcarcel, Architects, PC
443 Park Avenue South
New York, NY 10014
Tel: 212-679-6352
Fax: 212-679-5877

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR

MECHANICAL

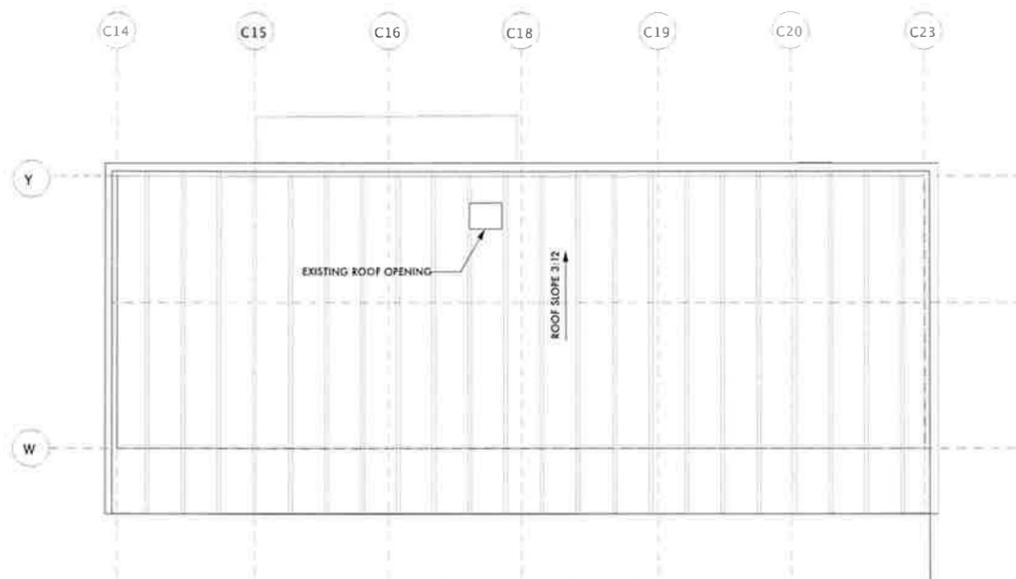
TITLE
**REPLACE BOILER
BUILDING No. 8&9**

LOCATION
**SOUTH BEACH PSYCHIATRIC CENTER
777 SEAVIEW AVENUE
STATEN ISLAND, NEW YORK 10305**

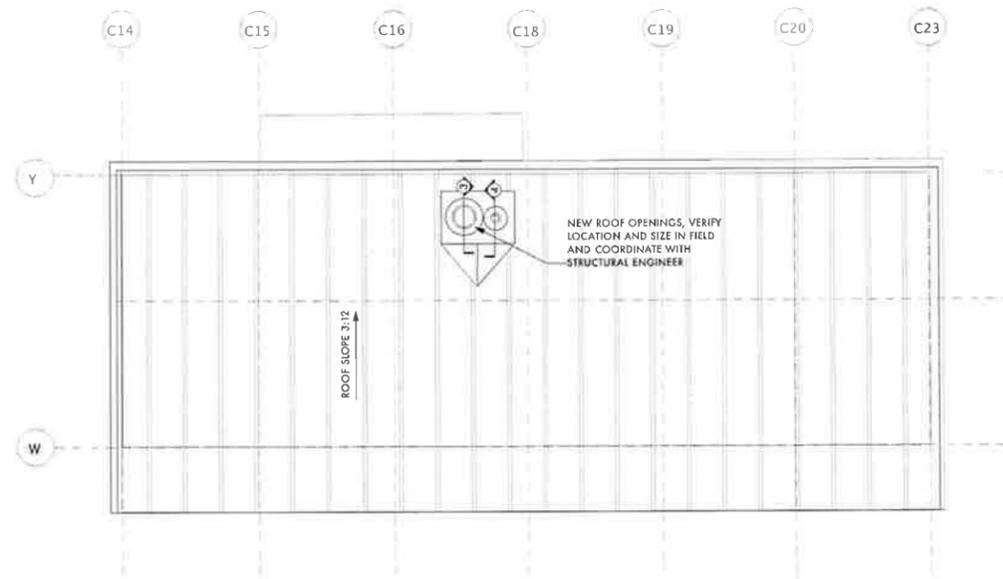
CLIENT
OFFICE OF GENERAL SERVICES



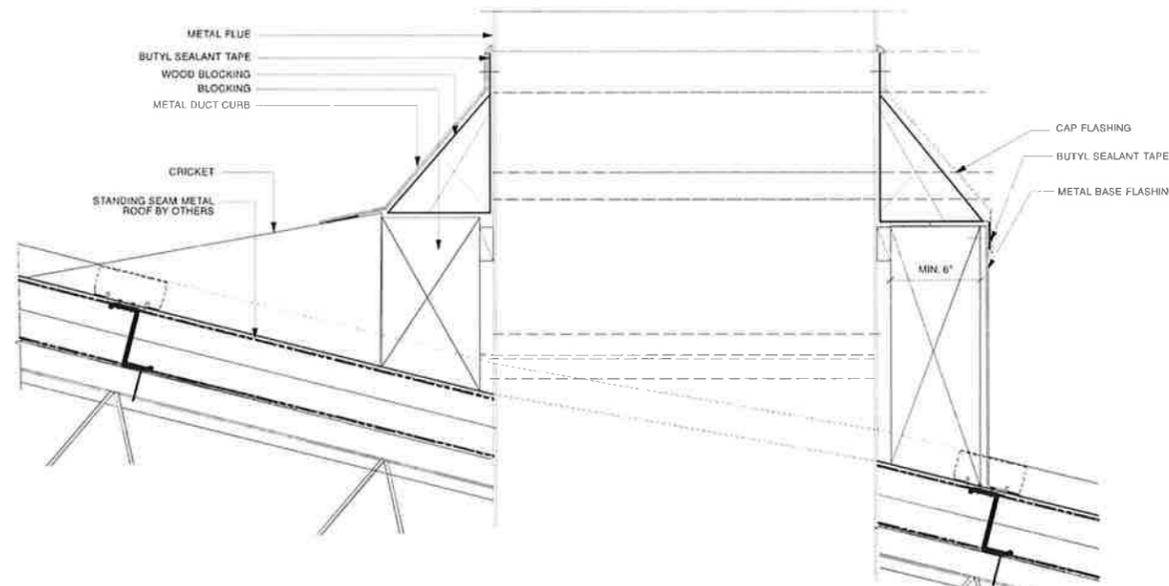
MARK	DATE	DESCRIPTION
	08/12/2011	ISSUED FOR CONSTRUCTION
	04/26/2011	ISSUED FOR OGS REVIEW
PROJECT NUMBER	M2948-H	
DESIGNED BY		
DRAWN BY		
FIELD CHECK		
APPROVED		
SHEET TITLE	BUILDING 8 & 9 ROOF DEMOLITION AND CONSTRUCTION PLANS, DETAILS	
DRAWING NUMBER	A-102.00	
SHEET	2 OF 3	



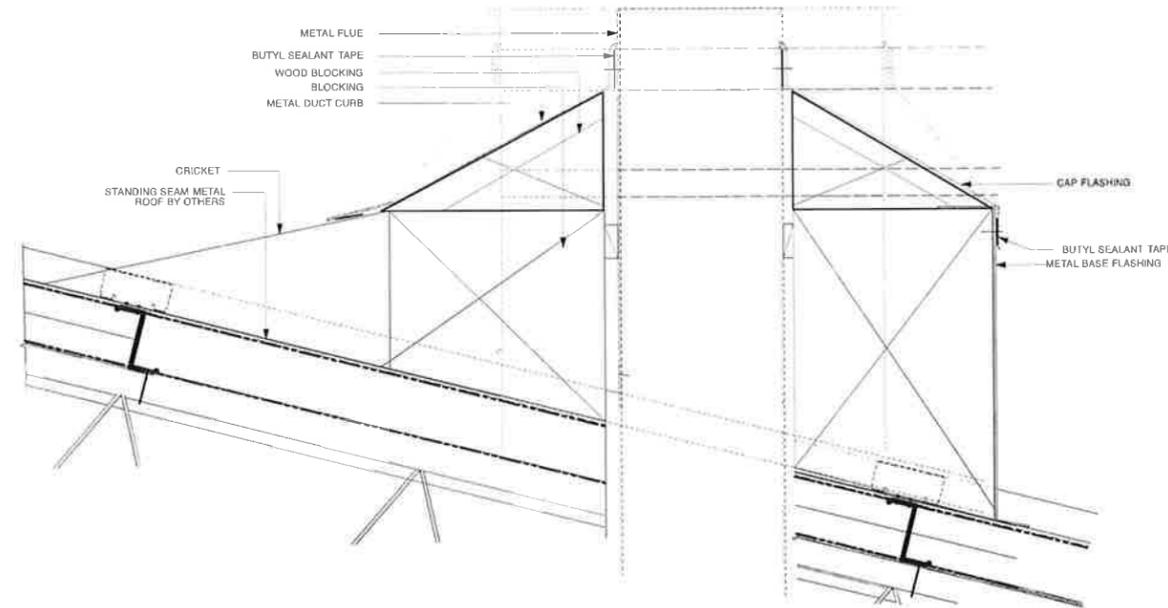
1 EXISTING ROOF PLAN
Scale: 1/8" = 1'-0"



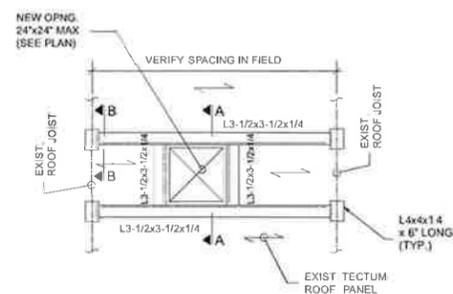
2 CONSTRUCTION ROOF PLAN
Scale: 1/8" = 1'-0"



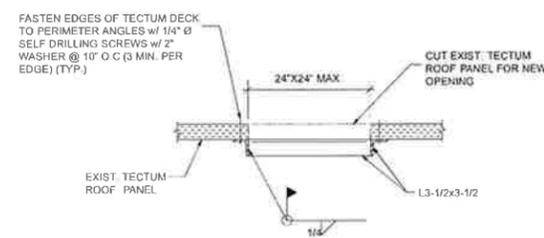
3 FLUE PENETRATION @ 2'-4" W FLUE
Scale: 2" = 1'-0"



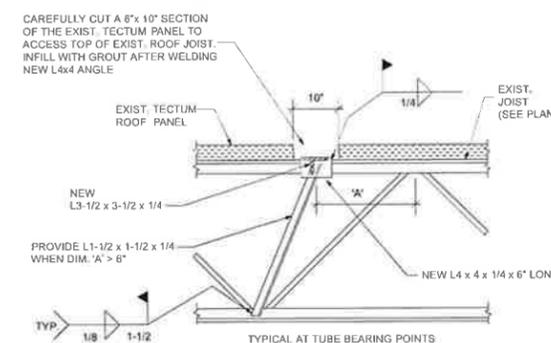
4 FLUE PENETRATION @ 1'-0" W FLUE
Scale: 2" = 1'-0"



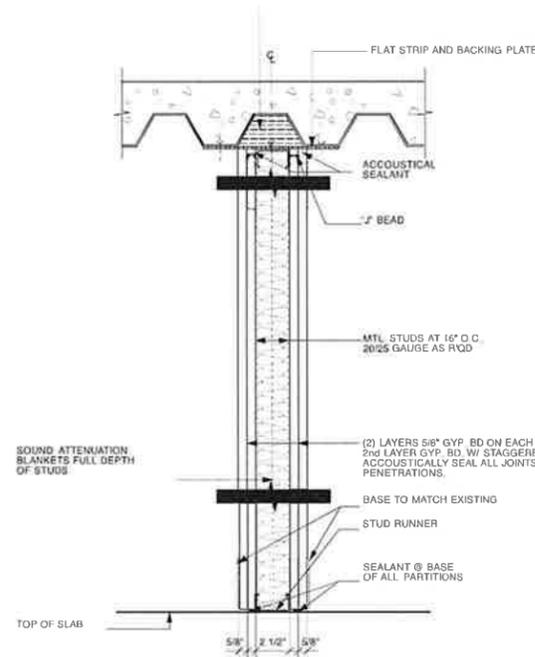
S1 TYPICAL PLAN AT NEW ROOF OPENINGS
N.T.S.



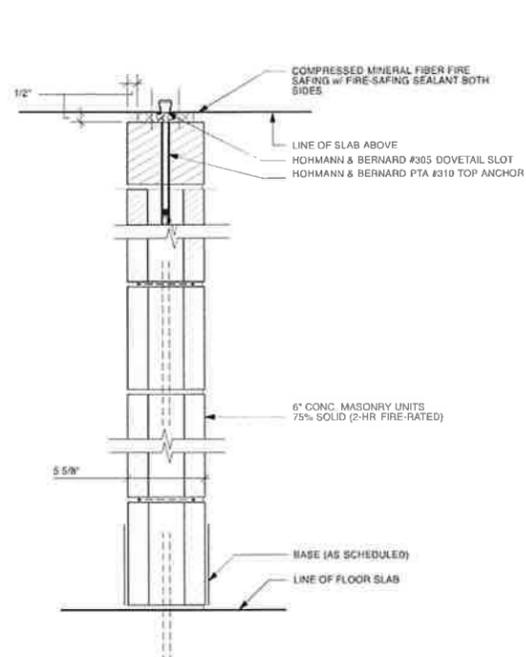
S2 SECTION A-A
Scale: 1/2" = 1'-0"



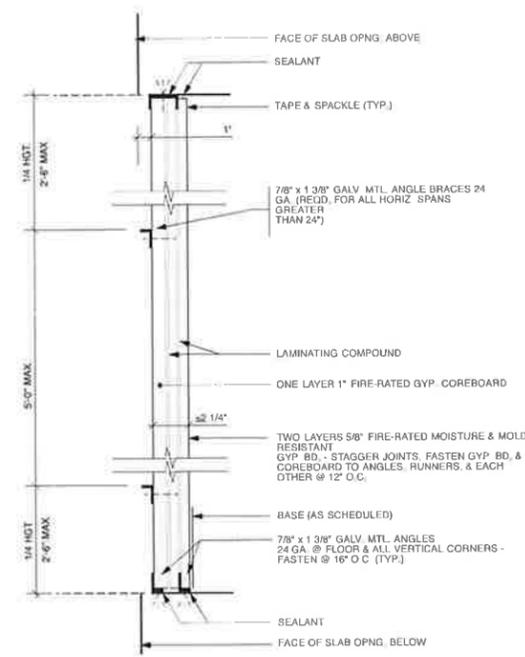
S3 SECTION B-B
Scale: 1/2" = 1'-0"



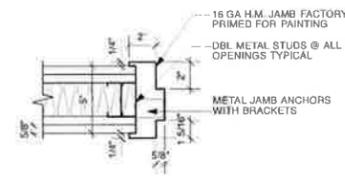
1 PARTITION 2 HR. RATED
MEA No. 81-98-M



2 PARTITION 2-HR. FIRE-RATED



3 PARTITION 2-HR. FIRE-RATED VENT SHAFT
BSA No. 898-47-0M



J1/H1 JAMB/HEAD DETAIL
Scale: 2" = 1'-0"

Door Schedule											
Door No.	Room Name	Door Type	Door Material	Door Finish	Door Width	Door Height	Door Thickness	Frame Material	Frame Finish	Jamb/Head	Remarks
889.1	BUILDING 889 BOILER ROOM	D1	HM	PT.02	3'-0"	6'-8"	1 3/4"	MTL	Same as Door	J1/H1	DOOR HARDWARE TO MEET OR MATCH FACILITY KEYING SCHEDULE

SET #1

CONTINUOUS HINGE	MCK-FM300	US32D	MC
1 LOCKSET	MATCH BUILDING STANDARD		CORBIN RUSS
1 WALL STOP	WS03	US26D	MC
3 DOOR SILENCERS	S1M		MC

CONSULTANT

Lilker Associates

1001 Avenue of the Americas
New York, NY 10018
tel 212.695.1000
fax 212.695.1299
www.lilker.com



Germer Kronick + Valcarcel, Architects, PC

443 Park Avenue South,
New York, NY 10016
Tel 212-679-6362
Fax 212-679-5877

WARNING:

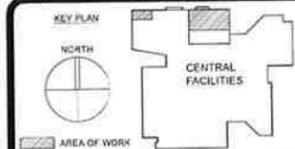
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

CONTRACT
MECHANICAL

TITLE
REPLACE BOILER
BUILDING No. 889

LOCATION:
SOUTH BEACH PSYCHIATRIC CENTER
777 SEAVIEW AVENUE
STATEN ISLAND, NEW YORK 10305

CLIENT
OFFICE OF GENERAL SERVICES

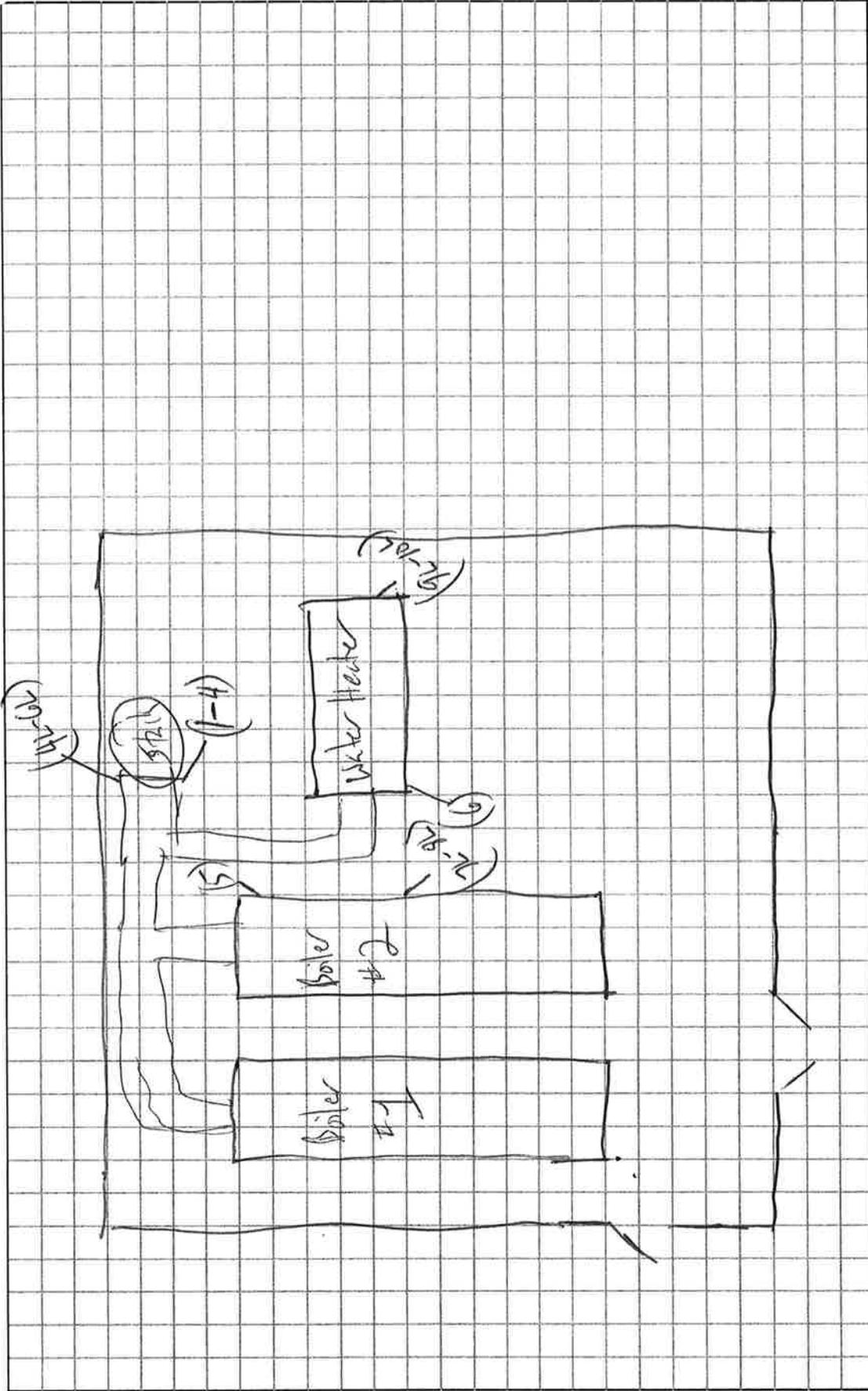


MARK	DATE	DESCRIPTION
	08/12/2011	ISSUED FOR CONSTRUCTION
	04/21/2011	ISSUED FOR OGS REVIEW

PROJECT NUMBER: M2948-H
DESIGNED BY:
DRAWN BY:
FIELD CHECK:
APPROVED:
SHEET TITLE

PARTITION DETAILS AND DOOR SCHEDULE

DRAWING NUMBER:
A-103.00



PROJECT MONITOR/INSPECTOR: T. Asan Fulmer	DATE: 3/21/11	PROJECT NAME: South Beach P.L. Bldg. 8-9 PROJECT NO: LACE-11065.00-JN
KEY: IWA = INSIDE WORK AREA OWA = OUTSIDE WORK AREA <input checked="" type="checkbox"/> BK = BULK SAMPLES <input type="checkbox"/> BG = BACKGROUND AIRS <input type="checkbox"/> DL = DAILY/DURING AIRS <input type="checkbox"/> FC = FINAL/CLEARANCE AIRS <input type="checkbox"/> RF = REFERENCE AIRS		PROJECT MONITOR/INSPECTOR: Adelaide Environmental Health Associates, Inc. adelaidemail@adelaidelc.com 1511 Route 22, Suite C24, Brewster, NY 10509 Phone: 845.278.7710 Fax: 845.278.7750 Metro Center, 49 Court St., Binghamton, NY 13901 Phone: 607.722.6639 Fax: 607.771.0732 1207 Delaware Avenue, Buffalo, NY 14209 Phone: 716.402.4580 Fax: 716.877.9570

APPENDIX D

PERSONNEL AND LABORATORY CERTIFICATIONS

NEW YORK STATE - DEPARTMENT OF LABOR

DIVISION OF SAFETY AND HEALTH
LICENSE AND CERTIFICATE UNIT
STATE CAMPUS BUILDING 12
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

Adelaide Environmental Health Associates, Inc.
Suite C24
1511 Route 22

Brewster, NY 10509

FILE NUMBER: 99-0656
LICENSE NUMBER: 29305
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 06/10/2010
EXPIRATION DATE: 07/31/2011

Duly Authorized Representative – John Soter:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.



Maureen A. Cox, Director
FOR THE COMMISSIONER OF LABOR

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.



Expires 12:01 AM April 01, 2011
Issued April 01, 2010

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480
EPA Lab Code: NY01378

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Miscellaneous

Asbestos in Friable Material	EPA 600/M4/82/020 Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	ITEM 198.4 OF MANUAL

Serial No.: 41865

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.



**NYC DEP Asbestos Control Program
Asbestos Certificate**



**FULLUM,
JASON P
INVESTIGATOR
114993
EXPIRES: 2/26/2012
DOB: 2/26/1974 M 5' 11"**

Must be carried on all asbestos projects



DMV ID: 375 065 936

**This certificate must be shown to a
NYCDEP representative upon request.
Report loss immediately to NYCDEP
Asbestos Control Program, 8th floor
59-17 Junction Blvd., Flushing, NY 11373**

United States Environmental Protection Agency

This is to certify that

Adelaide Environmental Health Associates, Inc

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires March 6, 2013



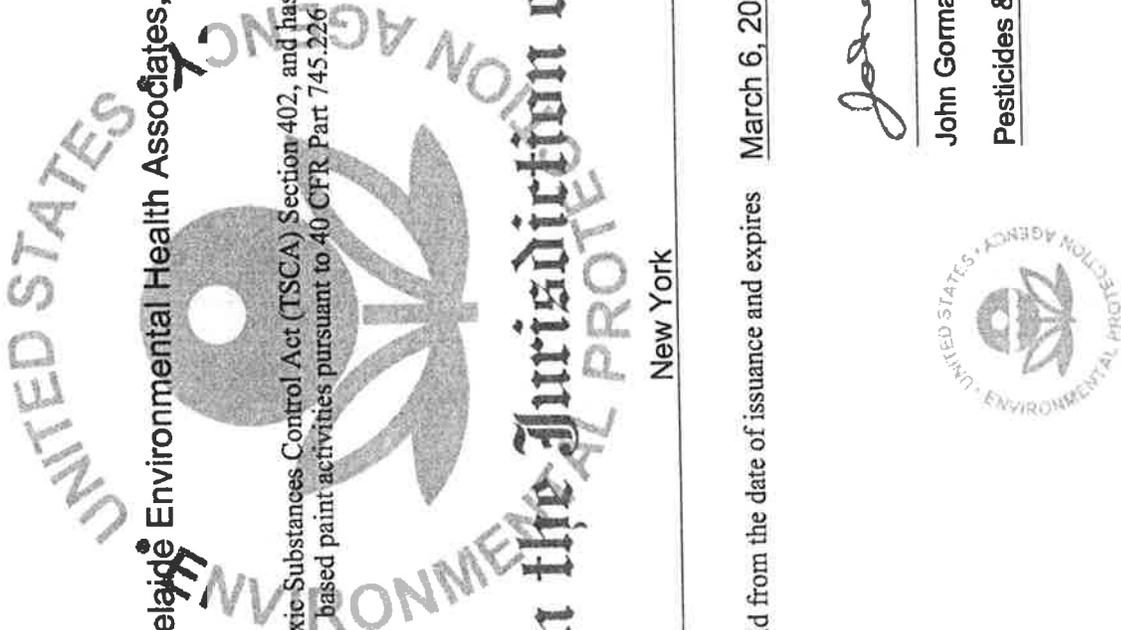
John Gorman, Acting Chief
Pesticides & Toxic Substances Branch

NY-15081-2

Certification #

APR - 8 2010

Issued On





44 Hunt Street Watertown, MA 02472

Leak Test Certificate

Customer: Adelaide Env, Health Assoc.

System: LPA-1 **Serial Number:** 2695 **Test Date:** 31 Dec 09

Source Manufacturer: IPL. **Source Model:** CUS
Active Material: CO⁵⁷ **Source Activity:** 444 MBq
Source Serial Num.: G5-406
Assay Date: 31 Dec 09
Source Enclosure: Stainless Steel in Tungsten Holder

Type of Test: Wipe

Areas Tested and Results: Front and Sides of Bezel

Results:
All Below .005 µCi

Test Performed By: 

CERTIFICATION

Dear Customer:

This is to certify that the old radioactive source, previously installed in your LPA-1 XRF analyzer, has been removed for decommissioning as part of the resource process of your unit.

The old source, Co-57, will be disposed in accordance with all applicable rules and regulations.

Model: LPA-1 LTR1000 _____

LPA-1 Serial Number: 2695

Source Model: IP6

Source Serial Number F2-313

Date of Removal: 12/29/09

Performed By: JN

If you have any question please do not hesitate to contact us at 617-668-6901 or lpa@rmdinc.com.

Sincerely,
Radiation Safety Department
RMD Instruments, LLC

RMD Instruments, LLC

Change in the Leak Test interval requirements

To: All RMD Customers
From: RMD's Radiation Safety Department
Date: July 30, 2007
Re: Changes in Leak Test interval requirements

As a part of the requirements for the possession of a device containing a sealed radioactive source, a licensee must perform scheduled leak tests of such device (source) at specified intervals per the device's SS&D certification.

The State of Massachusetts, the licensing authority, has amended the LPA-1 analyzer's SS&D certification, MA-0573-D-103-B.

Per RMD's request, based on the number of sources used over the years and the safety track record of the LPA-1, the State has modified the required interval for a Leak Test from 6 months to 12 months.

This change in the Leak Test interval requirement applies to all LPA-1 XRF analyzers shipped from RMD as of August 1, 2007.

If there is a question regarding this notification, please contact RMD's radiation safety department at Service@RMDInc.com or call us at 617-668-6901.

Respectfully,
Radiation Safety Department
RMD Instruments, LLC

RMD Instruments, LLC

LPA-1 XRF Analyzer Package Shipment

This is to certify that this package conforms to all packaging requirements of the U.S. Department of Transportation (DOT) and International Air Transport Association rules and regulations regarding the shipment of Radioactive Materials.

This package conforms to the conditions and limitations specified in 49 CFR 173.424 for Excepted Package, Radioactive Material, Instruments and Articles, UN 2911 and also IATA Section 10.5.9.5.

The radiation level at the surface of this package is less than 5 μ Sv (0.5 mRem/hr).

No label is required.

This letter should accompany the package during transportation at all times.

For Hazard Material Emergency Call

RMD Instruments, LLC

800-476-0652

User Manual Attachment for the new Firmware version

Time Corrected Mode:

The LPA-1 can now operate in either of three measurement modes, Standard Mode, Quick Mode, or Time Corrected Mode (TC). Time Corrected Mode is a Standard Mode 30-Secs measurement corrected for the decay of the source. The user can use this mode for Calibration shots at the beginning and at the end of a job.

Example: After 9 months the measurement time in the TIME CORRECTED MODE will be 60-Secs.

To Set the LPA-1 in the Time Corrected Mode:

1. Pull the trigger briefly or press any key to obtain a READY message.
2. Press SELECT MODE key. LPA-1 will display "QUICK MODE", "STD MODE XX" or "TIME CORRECTED" depending on the present setting.
3. Press the Select Mode key (toggle between the operation modes) until the TIME CORRECTED mode is displayed on the analyzer
4. The LPA-1 is now set to TIME CORRECTED Mode and ready to take measurement.

Changing the Abatement Level:

Changing the abatement level should be accomplished at the beginning of a job prior taking any measurement. An attempt to change the abatement level after a measurement is taken will result in an analyzer prompt message "ACCESS DENIED" and return to the "READY" mode.

Changing the Date & Time:

Setting the date and time in the LPA-1 analyzer is only possible after a system RESET. An attempt to change the date and time at any other condition, will result in an analyzer prompt message "ACCESS DENIED" and return to the "READY" mode.

Changing the Measurement Mode in Average:

Changing the Measurement Mode (STD, QM, TC) is not possible in the middle of an average set measurements. The user may change the operation mode after completion of the measurements and display of the average value on the screen.

Starting a New Unit in Average:

Starting a NEW UNIT is not possible when the LPA-1 is in the Average Mode. The Analyzer will display the prompt message "ACCESS DENIED" in this condition. To start a New Unit the Average Mode should be deactivated, by pressing the Average key.

Deleting Readings in Average Mode:

Deleting one reading in Average Mode is no longer possible. The Delete function during an average mode measurement will result in deleting the entire set of readings. Deleting more than one reading or one set of readings in Average Mode is still not possible. The message "DELETE DENIED" will be displayed.

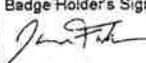
Time Out in Standard Mode Measurement:

LPA-1 analyzer now shows the remaining time for the completion of a measurement in the Standard Mode. For example, for a 30 second measurement in Standard Mode 30-Secs the analyzer displays TIME LEFT 29 OF 30 and counts down to TIME LEFT 1 OF 30, end of measurement.

**New York
RISK ASSESSOR**



**Certified Lead-Based
Paint Professional**

Certification No NY-R-12098-2	
Date of Birth 02/26/1974	Expiration Date 07/11/2011
Address 3 Calmer Place Hyde Park, NY 12538	
Badge Holder's Name Jason P. Fullum	
Badge Holder's Signature 	
If found, drop in any mailbox Postmaster: Please return to: US EPA 1200 Pennsylvania Ave, NW (MC-74040T) Washington, DC 20460 or call 1-800-424-LEAD	



Renovation of Building 8 & 9
South Beach Psychiatric Center
Staten Island, New York
Project # M2948-01

Drawings Dated 100% Submission

230923 Building Control System and Sequence of Operations for HVAC Controls

Honeywell has reviewed the specification and the most recent mechanical drawings to expand the existing Honeywell EBI control system. We also have listed the major mechanical systems that will be controlled and monitored by the Honeywell EBI control system.

HVAC Equipment – Building 8 & 9 (ATC Controls for project M2948-01)

3 Boiler 4 pumps
Necessary labor (project management, tech and application engineering)
Furnish and supervise necessary controls (including DDC panels and field devices)
8 hours of on site training of the new system
Upgrade existing EBI graphics
Upgrading of EBI software License
Network Hardware for connection to EBI PC
Updating of EBI graphics and database for new control sequences
Honeywell factory startup per specification
Drawings and submittal package
One year construction warranty

Exclusions and Clarifications for both projects

- Interlock wiring for FSD dampers
- All FSD dampers furnished and installed by (others)
- 120 volt power wiring, low voltage wiring, mounting of field devices for all DDC panels and field devices is per Div 16 electrical contractor
- Excludes all demo work
- Mechanical contractor is to install all necessary dampers and valves per division 15
- The control system will be commissioned by Aramark
- Excludes any repairs on existing Excel + Controller or field devices.
- Price is good for 1 year
- Excludes CAT-6 LAN wiring and connections furnished by others

Budgetary Building Automation Controls Allowance

Building 8 & 9 = \$46,469.00

Our proposed pricing is budgetary for your planning purposes only. It is not an offer to contract. We look forward to giving you a firm proposal including all technical and commercial assumptions as these become more firmly defined."

Honeywell

Project Information

Project Name	Segment	Qty	Part Number	Description	Unit Price	Extended Price
South Beach Psych. Center Bldg 8 & 9	HWS					
		7	H708	Current Sensor	\$91.20	\$638.40
		6	ML7421B1023	Actuator - DCA NSR, 1-1/2" stroke	\$466.46	\$2,798.76
		7	C7031D2003	Immersion Sensor	\$72.84	\$509.88
		7	RIBU1C	SPDT 10A Relay	\$22.71	\$158.97
		1	CP-5050	BACnet Router	\$4,090.01	\$4,090.01
		6	VGF21ES60	6" Standard valve	\$2,643.29	\$15,859.74
		7	HMO-4543	6" brass well	\$53.10	\$371.70
		3	EMBG	Emergency Break Glass	\$110.00	\$330.00
		1	EBI Software	EBI Software	\$3,200.00	\$3,200.00
				Total Equipment Contractor Price		\$28,118.54
				Less 10%		(\$2,811.85)
		40	PM	Project Management	\$148.50	\$5,940.00
		40	Engineer	System Engineering Services / Graphics	\$145.75	\$5,830.00
		68	Technician	Systems startup, Checkout, & Commissioning	\$138.05	\$9,387.40
				Project Total		\$46,464.09