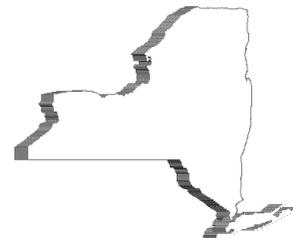




STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242



ADDENDUM NO. 11 TO PROJECT NO. 44578

**CONSTRUCTION WORK - PLA
MAJOR BUILDING RENOVATIONS FOR THE
MANHATTAN FORENSIC
RELOCATION
MANHATTAN PSYCHIATRIC CENTER
600 EAST 125th STREET
WARDS ISLAND, NY 10035**

October 13, 2015

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.

CHANGES TO ADDENDUM NO. 8

1. Item No. 5: Change "1.03" to read "1.07".

CHANGES TO ADDENDUM NO. 9

2. Item Nos. 6. And 7.: Delete these Items in their entirety and replace with the following:
 - "6. Page 015000-11, Paragraphs 1.21 A. and B.: Change "Site Logistics Plan" to read "Drawing CS-101 Overall Construction Staging Plan".
 7. Page 015000-11, Subparagraph 1.21 A.5.: Delete this Subparagraph in its entirety and replace with the following:
 - "5. Construction Parking will be permitted only inside Staging Areas A, B, and D."

DIVISION 1 SECTIONS

3. Page 012100-1, Paragraph 1.04 A: Add the following Subparagraph:
 - "12. All requirements of section 265113 Interior Lighting apply to the security lighting fixtures listed in this section. The allowance amount includes the cost of purchasing designated products and associated Part 1 and Part 3 requirements of section 265113."

4. Page 015100-5, ARTICLE 1.10 TEMPORARY FIRE ALARM IN CONSTRUCTION AREAS:
Delete this Article in its entirety and replace with the following:

“1.10 TEMPORARY FIRE ALARM IN CONSTRUCTION AREAS

- A. Prior to start of work in each “Occupied Area” notify the Director's Representative and Facility Safety Personnel to de-activate the Fire Alarm Smoke Detect. The contractor is required to comply with the provisions of NFPA 241 and the requirements outlined below for safeguarding construction areas at all times during the project.
- B. An Existing Temporary Fire Alarm System is in place in construction areas of the project from Floors Basement through 16 of Building #102. New Temporary Fire alarm devices will be provided by the owner’s Fire alarm Vendor, (Simplex) in certain areas of the project as described below. Removal/Relocation/ Reinstallation and Maintenance of the Temporary Fire Alarm System as needed for demolition and construction work will be provided by the Owner’s Fire Alarm Vendor. The Contractor shall coordinate with the Director’s Representative and Simplex for all removals and relocations required for the work of this contract. The Contractor shall cooperate and make every effort to sequence his work accordingly in order to avoid unnecessary relocations of the Temporary Fire Alarm System so as to minimize the work required by Simplex for Removals/Relocation/Re-installations.
- C. The Existing Temporary fire alarm system in construction areas consists of manual pull stations and speaker/visual appliances located at each exit (Stair #1 and Stair #2) and is connected to the FACP’s in construction area on the 2nd floor and occupied areas of Building 102.
- D. The following work will be provided by the Owner’s Fire alarm Vendor:
1. Provide new pull stations and speaker/visual appliance assembly at each exit for stair Q and tie into existing FA Circuit. Provide new pull stations and speaker/visual appliances at the First floor ‘B Side Exit doors at Stairs 4, 8, 9, 14 & 18.
 2. Perform a survey the existing Temporary Fire Alarm System including locationsOf the Existing FACP’s and submit the entire Temporary Fire Alarm System (Existing and installed under this contract) for approval before proceed with this work. Include floor plans and riser diagrams showing location of devices and tie-ins to existing FACP’s. Submit product data for devices and wiring for approval. Indicate relocations of existing wiring and devises needed for construction. Indicate plan and sequence for changeover from Temporary Fire Alarm System to Permanent Fire alarm system being installed under this contract.
 3. Cable for the manual pull stations and speaker/visual appliances is to be brought into the Existing MPC Fire Alarm System Control Panels (FACP) located in the “Occupied Areas” and Construction areas Final termination and programming shall be done by the Owner (Simplex). Coordinate all cabling work in “Occupied Areas” with the Facility and Director’s Representative.

4. Remove/Relocate/Reinstall and Maintain Temporary Fire Alarm system wiring and devices (Existing and New) as needed for demolition and new construction as directed by Director's Representative. Coordinate with the Director's Representative and 44578 Contractor.
5. Temporary Fire Alarm System shall be maintained and remain operational until such time that the Permanent Fire Alarm System has been completed, tested and accepted for beneficial use by the Owner."

CONSTRUCTION SPECIFICATIONS

5. Page 015301-1, Paragraph 1.02 G.: Delete this Paragraph in its entirety and replace with the following:

"G. A minimum of one (1) hoist operator shall be available on a daily basis at all times during Normal Work hours as defined in Section 011000 Paragraph 1.09 A., throughout the contractors' period of responsibility."
6. Page 035400-2, Subparagraph 1.01 F.1.: Delete this Subparagraph in its entirety.
7. Page 035400-2, ARTICLE 1.01 DESCRIPTION: Add the following Paragraph:

"G. Anticipate an average thickness of 1/2-inch of leveling compound but no less than 1/4"inch."
8. Page 035400-5, Paragraph 3.02 B.: Add the following Subparagraph:

"4. Shot Blast entire surfaces under all proposed finishes and to include all existing substrata, such as Dex-O-tex, terrazzo, existing and newly poured concrete floors."
9. Page 129345-3, Subparagraphs 1.06 G.1. and 2.: Delete these Subparagraphs in their entirety and replace with the following:
 - "1. Provide minimum 5 year warranty against manufacturer defects.
 2. Provide minimum 5 year warranty against installer defects."

PLUMBING SPECIFICATIONS

10. Page 220577-1, Paragraph 2.02 B.: Delete this Paragraph in its entirety and replace with the following:

"B. Strainer Grate: 4"square with height adjustment collar, lateral adjustment ring and drain grate or covering support. Stainless steel with polished finish. Provide with vandal resistant screws."

SITE SPECIFICATIONS

11. SECTION 323114 GATE SYSTEMS: Add the attached Section (pages 323114-1 thru 323114-23 and Quality Assurance Submittal Form (2 pages) to the Project Manual.

ARCHITECTURAL DRAWINGS

- 12. Revised Drawings:
 - a. Drawing No. AF-115 noted “REVISED DRAWING 10/12/2015” accompanies this Addendum and replaces the same numbered originally issued drawing, and any same numbered previously issued Revised Drawings.

CIVIL DRAWINGS

- 13. Revised Drawings:
 - a. Drawing No. CS-102 noted “REVISED DRAWING 10/12/2015” accompanies this Addendum and replaces the same numbered originally issued drawing, and any same numbered previously issued Revised Drawings.

HVAC DRAWINGS

- 14. Revised Drawings:
 - a. Drawing Nos. M-200-1-2C, M-200-1-2D, and M-200-1-2E noted “REVISED DRAWING 10/12/2015” accompany this Addendum and replaces the same numbered originally issued drawings, and any same numbered previously issued Revised Drawings.

PLUMBING DRAWINGS

- 15. Revised Drawings:
 - a. Drawing Nos. P-001, P-002, and P-502-2 noted “REVISED DRAWING 10/12/2015” accompany this Addendum and replaces the same numbered originally issued drawings, and any same numbered previously issued Revised Drawings.

ELECTRICAL DRAWINGS

- 16. Revised Drawings:
 - a. Drawing Nos. E-009, E-400-2, and E-401-2 noted “REVISED DRAWING 10/12/2015” accompany this Addendum and replaces the same numbered originally issued drawings, and any same numbered previously issued Revised Drawings.

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

AD/JRC:jc

SECTION 323114

GATE SYSTEMS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Chain Link Fence and Gates: Section 323113.

1.02 REFERENCES

- A. Welding Standards: “Structural Welding Code - Steel, AWS D1.1” or “Structural Welding Code - Sheet Steel, AWS D1.3”, as applicable, by the American Welding Society (AWS Codes).
- B. Materials and Finishes Standard: ANSI/BHMA A156.18-2000, “American National Standard for Materials and Finishes”.
- C. Electrical Components for Locking Devices and Electric Locks Standard: National Electric Code.

1.03 DEFINITIONS

- A. Technical Advisor(s); an individual meeting the requirements of either of the following subparagraphs:
 - 1. An employee of the company producing the system, or company which lists and markets the primary components of the system under their name, who is certified in writing by the company to be technically qualified in design, installation, and servicing of the required products. Personnel involved solely in sales do not qualify.
 - 2. An individual employed by an organization, other than the company producing the system, certified in writing by the company producing the system that the individual is technically qualified in design, installation and servicing of the required products and is capable to act as company field advisor in their behalf. Personnel involved solely in sales do not qualify.
- B. Gate Control Console: The interior enclosure that houses the gate controls, typically desk or counter mounted.
- C. Gate Control Cabinet: The exterior enclosure which houses the gate controls, typically mounted on railing of Control Tower.
- D. Date: The calendar date within 30 days of submitting material for approval.

1.04 SUBMITTALS - GENERAL

- A. Waiver of Submittals: The “Waiver of Certain Submittal Requirements” in Section 013300 does not apply to this Section.

- B. Submittal Packages: Submittals required by this section shall be submitted in packages as follows:
1. Submittals Package 1: Quality Assurance Package:
 - a. Submit within 30 days of contract award.
 2. Submittals Package 2: Gate Systems Package:
 - a. Submit no later than 30 days after receipt of approval of Submittals Package 1.
 3. Submittals Package 3: Contract closeout submittals.
 4. Re-Evaluation Fee: In accordance with Article 4.7 of the General Conditions, a re-evaluation processing fee will be levied against the Contractor for each re-evaluation of any Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content or format. There will be a fee of \$250 levied against the Contractor for each re-evaluation of any Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content or format.
- C. It is the Contractor's responsibility to review and verify that all information required for each submittal package is included in the submittal package. Errors or omissions found by the Contractor shall be corrected prior to submission for approval. Incomplete Submittal Packages will be returned for correction with no action taken.
1. Contractor shall verify that portions of the submittal packages provided by a Sub-Contractor are complete.
 2. Technical Advisors shall be responsible for reviewing each complete submittal package prior to its submission for review and approval.
 - a. Letter(s) from the Technical Advisor shall be included in the Submittal Packages, stating that the Technical Advisor has reviewed the entire Submittals Package for accuracy and completeness and approves all materials and installation methods included in the Submittals Package.
 - b. Errors or omissions found by the Technical Advisor shall be corrected prior to submission of the package for approval.
- D. Submittal Package shall include.
1. The submittal shall include:
 - a. Signed and dated documents of all documents that require signatures.
 - 1) Documents submitted without a signature and date will be disapproved.
 - 2) Photocopies, E-mails or Faxed copies of documents requiring signatures are not acceptable.
 - 3) Electronic signatures and rubber stamp signatures are not acceptable, only hand written signatures are acceptable.
 - b. Each page shall be numbered.
 - c. Each page shall bear the Technical Advisor's handwritten initials and date (in the lower right hand corner of the page) indicating that the Technical Advisor has reviewed the information presented on that page.

- d. Drawings required to be included with the submittal package shall bear the Technical Advisor's handwritten initials and date (in the lower right hand corner of the drawing or in the appropriate location in the drawing's title block) indicating that the Technical Advisor has reviewed the information presented on that drawing.
- E. Quality Control Submittal Package.
- 1. Welder's Certification: Submit each welder's welding certification for each type weld and position before fabrication

1.05 SUBMITTALS PACKAGES

- A. Submittals Package 1 - Quality Assurance: Submit required information on the "Quality Assurance Submittal Form" found at the end of this section. Include the following:
- 1. Equipment Qualifications:
 - a. The New York State Office of Mental Health and the New York State Office of General Services have tested and/or reviewed the manufacturers and/or their products listed in this section, and approve them for use at their facilities.
 - 1) Products listed by manufacturer's name and model number have been approved for use by the New York State Department of Correctional Services.
 - 2) Products previously approved for use by the New York State Department of Correctional Services are NOT automatically approved. All products must be submitted for review to determine if they are acceptable for their proposed application.
 - b. Products other than those specified:
 - 1) If products other than those specified, are proposed for use, furnish the name, address, and telephone number of at least 5 comparable installations that can prove the proposed products have operated satisfactorily for 1 year.
 - 2) The Company producing the product shall have test facilities available, which can demonstrate that the proposed product meets contract requirements.
 - 2. Manufacturer's Qualifications Data:
 - a. Names, addresses and facility contacts of 4 similar projects where manufacturer's equipment and hardware has been in operation for not less than 3 years.
 - 3. Installation Company Qualifications Data:
 - a. Name, business address and telephone numbers of the installation company.
 - b. Name of person supervising installation and completion of Work of this section.
 - c. Names, addresses and facility contacts of 4 similar projects this person has supervised in the past 3 years.
 - d. Include written verification from the manufacturer the person supervising the Work is trained and qualified in the installation of the accepted gate and detention products.
 - 4. Technical Advisor's Qualifications Data:

- a. Name, business address and telephone numbers of technical advisor(s).
 - b. Written certification from gate systems equipment and detention hardware manufacturers that advisor is technically qualified in design, installation and servicing of products.
- B. Submittals Package 2 - Gate Systems:
1. Written certification from the Technical Advisor for each gate system stating that the Gate Systems package has been reviewed for accuracy and completeness and all materials and installation methods are approved.
 2. Shop Drawings:
 - a. Complete detailed drawings for each height and style of gate required. Include separate schedule for each. List materials required, and technical data including size, weight, and finish to ensure conformance to specifications. Show relationship of gates with other Work. Include details of all major components. Include parts list showing manufacturers' names and part numbers for the complete installation.
 - b. Include details of lock boxes for Type "B" Gates.
 - c. If gates are to be installed in existing openings, field measure existing gate openings and other conditions, and indicate existing information on shop drawings.
 - d. Complete detailed drawings for each console required. Indicate technical data, including size and finishes, to ensure conformance to specifications. Show relationship of all required components with respect to the console housing. Include parts list showing manufacturers' names and part numbers for the complete installation.
 - e. Wiring Diagrams: Show switches, controls, motors, and other electrical components. Include wiring diagrams of the complete system as proposed to be installed. Standard diagrams will not be acceptable.
 3. Hardware Schedule: In addition to information included on Shop Drawings, consolidate detention hardware information for ALL gates in this project into a SINGLE hardware schedule. Examples of approved layout will be provided if required. Product quantities are not checked for accuracy. Include:
 - a. Gate index, description, handing, swing or slide direction.
 - b. Lock type for each gate. Include the handing number from the lock manufacturer's Swing Chart indicating the cover plate side and keying.
 - c. Closers.
 - d. Hinges.
 - e. Door position switch.
 - f. Pulls.
 - g. Cylinder shields.
 - h. Keying schedule and keying instructions (key code).
 - i. All other detention hardware required to complete the Work of this section.
 4. Product Data:

- a. Catalog sheets, specifications and installation instructions.
 - b. Bill of Materials: Provide a Bill of Materials identifying each system device or component proposed to be used for this system as listed in PART 2 PRODUCTS of this section. The Bill of Materials shall provide the following information:
 - 1) Identify each item by name and model number.
 - 2) Indicate the page number(s) in the Submittal Package where information required for that item can be found.
 - 3) Identify the appropriate specification section, Article number, paragraph and subparagraph where that item is listed in the project manual.
5. Detailed sequence of operations. Submit in a format similar to *Description of Completed System*.
- C. Submittals Package 3 - Contract Closeout:
- 1. Name, address and telephone number of nearest fully equipped service organization.
 - 2. Operation and Maintenance Data for Gate System: Deliver 3 copies of instructions for operation, maintenance, recommendations, and parts manuals covering the installed products to the Director's Representative.
 - 3. Operation and Maintenance Data for Power and Control Wiring Products:
 - a. Operation and maintenance data for each product.
 - b. Complete point to point wiring diagrams (As-Built Drawings) of the modifications to the system as installed. Identify all conductors and show all terminations and splices. (Identification shall correspond to numbered tags installed on each conductor.)
 - c. Name, address, and telephone number of nearest fully equipped service organization.
 - 4. Deliver 3 copies of instructions, maintenance recommendations, and parts manuals covering each of the installed products to the Director's Representative.
 - 5. Certification: Deliver to the Director's Representative written affidavit from the Gate System manufacturer(s) that the Gates systems, the Gate locks, motor operators and the accessories are installed correctly and operating properly.
 - 6. Maintenance Kit.

1.08 DESCRIPTION OF COMPLETED SYSTEM – VEHICLE COMPOUND

- A. The completed system shall operate as follows:
 - 1. Each sliding gate operator shall be controlled and monitored by a three-position selector switch and indicator lights located in the gate control console. A matching three-position selector switch and indicator lights located in the gate control cabinet shall provide an alternate location for controlling and monitoring the gates.
 - a. Moving the switch to the "Open" position unlocks and opens the gate.
 - 1) As long as the switch's handle is held in the "Open" position the gate shall continue moving until it comes to the fully open position.

- 2) Releasing the switch's handle, will cause the switch to move to the "Stop" position and all movement of the gate will stop.
 - b. The "Stop" position of the switch is the default position of the switch. Releasing the handle of the switch from either the "Open" or "Close" position will cause the switch to move to the stop position and all movement of the gate will stop.
 - c. Moving the switch to the "Close" position, closes and deadlocks the gate.
 - 1) As long as the switch's handle is held in the "Close" position the gate shall continue moving until it comes to the fully closed position and is deadlocked.
 - 2) Releasing the switch's handle, will cause the switch to move to the "Stop" position and all movement of the gate will stop.
 - d. Gate movement may be reversed in either direction of travel by setting the control switch to the appropriate position. The control system shall automatically stop the gate, pause for 2 seconds minimum, then cause the gate to travel in the opposite direction. There is an adjustable time delay to avoid mechanical damage.
 - e. Two control panel indicator lights at both gate control console and cabinet shall monitor the status of the gate.
 - 1) A "Green" indicator light shall illuminate when the gate is completely closed and deadlocked.
 - 2) A "Red" indicator light shall illuminate for all other conditions.
2. Each Pedestrian (Type "A") gate shall be controlled and monitored by a pushbutton and indicator lights located in the gate control console. A pushbutton and indicator lights located in the gate control cabinet shall provide an alternate location for controlling and monitoring the gates.
- a. Depressing the pushbutton, the lock will unlock from the locked closed position and remain unlocked only while pushbutton is depressed. Lock will automatically deadlock when gate is closed.
 - b. Two control panel indicator lights at both gate control console and cabinet shall monitor the status of the gate's door position switch and lock.
 - 1) A "Green" indicator light shall illuminate when the gate is completely closed and deadlocked.
 - 2) A "Red" indicator light shall illuminate for all other conditions.
3. The electrical controls of all of the sliding gates and pedestrian gates shall be interlocked to prevent more than one gate to be open at any one time, except through the use of a key operated interlock bypass switch.
- a. Each group of interlocked gates shall have an interlock by-pass circuit, to allow the interlocked gates to be opened simultaneously when the interlock by-pass circuit is activated. Each interlock by-pass circuit shall have a key operated interlock by-pass switch and a LED indicator light.

- b. The interlock by-pass switch shall be a key-operated, 2-position maintained contact switch, key removable when in Off position only.
 - 1) When separate interlock by-pass circuits are required, by-pass switches are keyed alike, but unlike any other switch on the panel.
 - c. The LED indicator light illuminates only when the interlocks are in the by-pass mode.
- 4. Power switches in conjunction with magnetic contactors in gate control console and gate control cabinet shall allow the attendant to switch power on and off to the console or cabinet.
 - a. At the gate control console a key operated power switch in conjunction with a magnetic contactor in the console shall allow the attendant to switch power on and off to the console and make all gates functional or non-functional from the console.
 - 1) When the power switches are in the "OFF" position, no electrical power shall be available at the gate operators or locks. All power to the gates and locks shall be disconnected at the console.

Exception: The heater circuit shall be independent of control console power and the control console power switch. Heater circuit shall be routed from panel-board to control console to gate motor operator. Power shall be disconnected from panel-board for service.
 - 2) In the "On" position, the key shall be non-removable until the switch is returned to the "Off" position.
 - b. At the gate control cabinet an automatic plunger power switch in conjunction with a magnetic contactor shall automatically switch power on and off to the cabinet.
 - 1) When the cabinet door is opened, the plunger switch is released and power will be provided to the cabinet making all gates functional from the cabinet.
 - 2) When the cabinet door is closed, the plunger switch is depressed and power to the cabinet will be shut off making all gates non-functional from the cabinet.
 - c. At the gate control cabinet a two position selector "Maintenance" switch shall allow the attendant to switch power on and off to the cabinet and make all gates functional or non-functional from the cabinet when the cabinet door is open.
- 5. A lamp test push button on the gate control console and in the cabinet shall allow the attendant to test the status of all indicator lights at that console or cabinet. No other system operations shall be affected.
- 6. A circuit breaker adjacent to each gate's control switch in the gate control console and in the cabinet will provide protection of the gate's control circuit.

1.11 DESCRIPTION OF COMPLETED SYSTEM-PEDESTRIAN COMPOUND

- A. The completed system shall operate as follows:

1. Each Pedestrian Type “A” gate (G-22; G-23) shall be controlled and monitored by a pushbutton and indicator lights located in the gate control console in the Command Center in the Main Entry Building. 102.
 - a. Depressing the pushbutton, the lock will unlock from the locked closed position and remain unlocked only while pushbutton is depressed. Lock will automatically deadlock when gate is closed.
 - b. Two control panel indicator lights at the gate control console shall monitor the status of the gate’s door position switch and lock.
 - 1) A “Green” indicator light shall illuminate when the gate is completely closed and deadlocked.
 - 2) A “Red” indicator light shall illuminate for all other conditions.
2. The electrical controls of the exterior pedestrian gates shall be interlocked in pairs of gates to prevent more than one gate in each pair to be open at any one time, except through the use of a key operated interlock bypass switch.
 - a. When either gate in a pair is open, relay interlocks associated with the gate shall cause the gate controls for the other gate in the pair to be non functional.
 - b. Each group of interlocked gates shall have an interlock by-pass circuit, to allow the interlocked gates to be opened simultaneously when the interlock by-pass circuit is activated. Each interlock by-pass circuit shall have a key operated interlock by-pass switch and a LED indicator light.
 - c. The interlock by-pass switch shall be a key-operated, 2-position maintained contact switch, key removable when in OFF position only.
 - 1) When separate interlock by-pass circuits are required, by-pass switches are keyed alike, but unlike any other switch on the panel.
 - d. The LED indicator light illuminates only when the interlocks are in the by-pass mode.
4. Power switches in conjunction with magnetic contactors in the gate control console shall allow the attendant to switch power on and off to the console and make all gates functional or non-functional from the console.
 - a. When the power switches are in the “OFF” position, no electrical power shall be available at the gate operators or locks. All power to the gates and locks shall be disconnected at the console.
 - b. In the “On” position, the key shall be non-removable.

1.12 TEMPLATES

- A. After receipt of approved submittals, furnish updated, required templates to the affected trades to enable the fabricators to make proper provision for hardware without delaying job progress.

1.13 QUALITY ASSURANCE

- A. List of Completed Installations: If brand names other than those specified are proposed for use, furnish the name, addresses, telephone number, and facility contact of a minimum of 4 comparable installations which can prove the proposed products have operated satisfactorily for a minimum of 2 years.
- B. Manufacturer's Qualifications: The manufacturer of gates and detention type hardware shall be regularly engaged in the production of such products, shall have furnished such products for 4 similar projects that have been in operation for not less than 3 years, and shall be subject to the approval of the Director.
- C. Installation Company Qualifications: The Company installing the Work of this section, and the person supervising the Work, shall be experienced in gate system work, and shall have been engaged in the assembly and installation of the specified gates etc. for a minimum of three years.
- D. Warranty: Manufacturer of gate system shall warranty all components furnished as part of the gate system.
- E. Technical Advisor: In addition to reviewing and approving the Gate Systems Submittals Package, the Technical Advisor (for each type of gate system) shall provide the following on-site services:
 - 1. Render advice regarding installation and final adjustment of the gate system(s).
 - 2. Witness final system test and then certify with an affidavit that the gate system(s) is installed in accordance with the contract documents and is operating properly.
 - 3. Train facility personnel on the operation and maintenance of the gate system(s) a minimum of 2 one-hour sessions.
 - 4. Answer questions which might arise.
- F. Galvanizing Stamp: Stamp galvanized items with name of the galvanizer, weight of coating, and applicable ASTM number.
- G. Welders' Qualifications: Welding shall be performed only by welders, welding operators, and tackers who have been qualified by tests as prescribed in the AWS Code to perform the type of welding required.

1.15 DELIVERY

- A. Coordinate delivery of anchors and other accessories to be built into other Work, to avoid delay. Furnish instructions and templates as required for accurate location.
- B. Promptly cover and protect steel and gate system items delivered to the site.
- C. The manufacturer of the prison lock keys shall notify the Director's Representative 212-369-4757 and the Deputy Superintendent for Administration at Manhattan Psychiatric Center 646-672-6510 a minimum of two days in advance of shipping keys. Ship all prison lock keys direct from manufacturer, through the United States Postal Service, via Registered Mail, Restricted Delivery, Return Receipt Requested, to:

Raemel G. Pascual, MPA
Manhattan Psychiatric Center
600 East 125th Street
New York, NY 10035

1.16 MAINTENANCE

- A. Spare Parts: Furnish the following and store at the site where directed:
1. Sliding Gate
 - a. One motor.
 - b. One reduction gear assembly.
 - c. One full-length chain and repair links.
 - d. Two of each type limit switch and part kit.
 - e. One each reversing contact 24V.
 - f. One each transformer 75Va-24V.
 2. Type "A" and Type "B-1" Pedestrian Gates
 - a. One complete lock set. (Handing and keying shall be as directed.)
 - b. Two of each Lock Bolt Indication switch.
 - c. One Door Position Indicator switch.
 3. Control Panels:
 - a. One of each type key operated control panel power cut-off switch required.
 - b. One of each type two position selector switch required.
 - c. Two of each type three-position selector switch required.
 - d. One of each type momentary contact push button required.
 - e. Two of each type of indicator lights required.
 - f. Two of each type of circuit breakers required.
 - g. One of each type of plug-in modular relay required.
 - h. One power supply.
 - i. Five of each class J fuses.
- B. Maintenance Materials:
1. Hand Tool Maintenance Kit(s): Lockable steel tool box each containing one set of all hand tools and fasteners necessary to perform preventative maintenance and repairs of gates and locking system devices. This list includes but is not limited to the following:
 - a. Mechanics mirror.
 - b. LED Flashlight.
 - c. One complete Torx kit and driver.
 2. Required amounts of recommended lubricants for 3 years service.
 3. Test Unit that tests and operates the Folger Adam 50 Series or Southern Steel 1050 Series Electric Lock for proper functions.

1.17 INSPECTION

- A. Quality Assurance (QA) inspection of structural steel fabrication and field welding and high-strength bolting may be made at the discretion of the Director.

The qualification of welding procedures, welders, and tackers will be covered by such QA inspection. Representatives of the Director and/or designated inspection laboratory shall be given free and easy access to fabrication shop and field at all times that work is in progress. QA inspections will be made without cost to the Contractor.

1. If QA inspection is made by the State, it shall not relieve the Contractor, fabricator, and erector of responsibility for their own QC programs.
2. When QA inspection is made by the State, schedule and perform the Work as required to minimize the cost to the State for QA inspection. When failure to schedule and perform the Work, or to coordinate with the QA inspectors, results in excessive QA inspection costs, the State will backcharge such excess cost to the Contractor.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Steel Hollow Structural Sections (Round, Square, or Rectangular): ASTM A 500, Grade B; or ASTM A 500 Grade C.
- B. Steel Pipe: ASTM 53, Type E or S, Grade B.
- C. Cold Galvanizing Compound: Single component giving 93 percent pure zinc in the dried film, and meeting the requirements of DOD-P-21035A (NAVY).

2.02 COMPANIES

- A. American Jail Products, LLC, 4 Van Buren St., Troy, NY 12180, (518) 271-6560.
- B. Hearne Steel Company, Inc. P.O. Box 1239 Hearne Texas 77859, www.hearnesteel.com.
- C. The G-S Company, 7920 Stansbury Road, Baltimore, MD 21222, (410) 284-9549, www.g-sco.com
- E. Brookfield Industries, Inc., 99 W. Hillside Ave., Thomaston, CT 06787-1433, (860) 283-6211, www.brookhinge@snet.net.
- F. Dayton Inc./Graingers 35 Corporate Circle, Albany NY 12203, (518) 869-1414, www.graingers.com
- G. Ingersoll-Rand Company:
 1. LCN, P. O. Box 100, Princeton, IL 61356-0100, (800) 526-2400, www.lcnclousers.com.
 2. Glynn-Johnson Door Control Hardware, 2720 Tobey Drive, Indianapolis, IN 46219, (800) 525-0336, www.ingersoll-rand.com.
- H. Maximum Security Products Corporation, 3 Schoolhouse Lane, Waterford, NY 12188, (518) 233-1800, www.maximumsecuritycorp.com.

- I. Southern Folger Detention Equipment Company, 4634 South Presa St., San Antonio, TX 78223, (210) 533-1231, www.southernfolger.com.
- J. Stanley Works, 480 Myrtle St., New Britain, CT 06050, (800) 622-4393, www.stanleyworks.com.
- K. Textron Fastening Systems, 1-800-544-6117, www.camcar.textron.com/torxplus
- L. Tymetal Corporation, Inc., 1626 Rt. 9, Clifton Park, NY 12065, (518) 383-6084, www.tymetal.com.

2.03 SLIDING GATE OPERATOR SYSTEM

- A. Operator System: Tymetal Corp.'s Positive Locking Ultimate Sallyport System (PLUSS), or Folger Adam Co.'s Type "J" Electric Locking and Operating Device, including:
 - 1. Locking which is accomplished by means of a keyless locking device, engaging gate at three places in the locking pilaster.
 - 2. Gate movement from the closed position that is impossible except by electric or mechanical means.
 - 3. Lock openings in the locking pilaster that are completely closed when the gate is an open position.
 - 4. Gate movement not less than 30 feet per minute.
 - 5. Emergency operation by manual crank operation, from an emergency release column. Equip cabinet door with plain bearing hinges, Folger Adam No. 12 or Southern Steel No.SS1010A-1 deadlock, and cylinder shield. Door pull if required. Galvanize assembly.
 - 6. Electric heating element for gearbox, with thermostatic control, to ensure proper operation of the system to minus 20 degrees F.
- B. Finishes: Galvanize entire operator system except track, rollers and drive assembly.
 - 1. Galvanizing process shall conform to:
 - a. ASTM A 123 for plain and fabricated material and assembled products.
 - b. ASTM A 153 for iron and steel hardware.
 - 2. Stamp galvanized items with name of galvanizer, weight of coating, and applicable ASTM number.
- C. Thoroughly clean all steel prior to sending it to the galvanizer the entire assembly. Remove oil, grease, and similar contaminants in accordance with SSPC SP-1 "Solvent Cleaning". Remove steel mill stamp, loose mill scale, loose rust, weld slag and spatter, and other detrimental material in accordance with SSPC SP-2 "Hand Tool Cleaning", SSPC SP-3 "Power Tool Cleaning", SSPC SP-6 "Commercial Blast Clean" or SSPC SP-7 "Brush-Off Blast Cleaning".
 - a. Do not ship the entire assembly from the fabricating shop to the galvanizer prior to QA inspection and approval by the State or designated inspection laboratory that the assembly is in conformance with the Contract Documents.

- D. Gate Frame: Furnished by the manufacturer of the sliding gate operator system.
- E. Accessories: Include all accessories required to perform the functions summarized in DESCRIPTION OF COMPLETED SYSTEM and as indicated on the drawings.

2.04 TYPE 'A' GATE SYSTEM

- A. Materials:
 - 1. Steel Tubing: Hot-formed, welded or seamless, structural tubing; ASTM A 501.
 - 2. Miscellaneous Steel Shapes and Bars: ASTM A 36, unless otherwise specified or shown.
 - 3. Steel Sheet:
 - a. Hot-Rolled Steel Sheets and Strip: Commercial quality carbon steel, pickled and oiled, complying with ASTM A 569 and ASTM A 568.
 - b. Cold-Rolled Steel Sheets: Commercial quality carbon steel, complying with ASTM A 366 and ASTM A 568.
 - 4. Steel Rods:
 - a. Steel Rods Not To Be Galvanized: 3/8 inch diameter, oil tempered steel rods, with a hardness on the Rockwell C Scale between 38 and 42.
 - b. Steel Rods To Be Galvanized: 3/8 inch diameter, mild steel, low carbon rod.
- B. General Hardware Notes:
 - 1. Deadlocks to have bolt keepers with dust box.
 - 2. Locate centerline of mechanical deadbolt 3'-2" above finished grade.
 - 3. Locate centerline of Door Pull 4'-0" above finished grade.
 - 4. Weld hinges unless specified otherwise.
 - 5. Single Wing Escutcheons: Use on electric jamb locks.
 - 6. Template door closers for maximum gate swing allowed
- C. Hardware for Type "A" Gate:
 - 1. Hinges: 3 ea Stanley BBK852, MSPK855, Brookfield I-8510 series, x rust inhibitor coating x weld 3 sides. Provide fittings for forced lubrication.
 - 2. Electric Prison Lock: 1 ea Folger Adam No. 56ELNN, or Southern Steel No. 1051E-2NL, bolt remains retracted only while switch is depressed, x dust box x galvanized case. Lock shall automatically deadlock when gate is closed. Provide weather tight fitting at wire penetrations and rubber gasket between frame and cover plate.
 - 3. Cylinder Shields: 2 ea Folger Adam No. 2CS, or Southern Steel No. 219.
 - 4. Door Pulls: 2 ea Folger Adam No. 2, or Southern Steel No. 212C x US26D.
 - 5. Door Position Indicator Switch: 1 ea Southern Steel No. 220A-5 series x standard case x galvanized. Provide Type 1 sealant at cover to provide weather protection.
 - 6. Door Closers:

- a. 1 ea LCN 4216 x case and internal parts steel and cast iron x constant viscosity fluid from 120 degrees F to -30 degrees F x SRI rust inhibitor paint x Torx screws x AL. Mount on push side of gate.
 - b. Adjust closer for ease of operation.
7. Molex Plugs: Provide Molex connector for electric lock.

D. Fabrication and Manufacture:

- 1. Frames: Tubular steel members 3/16 inches thick. Miter and weld tubular members at corners.
 - a. Stops: 3/4" x 1-1/4" steel, 3 sides. Secure to gate frame with countersunk Torx center pin security machine screws at 8" oc.
- 2. Gates: Stiles and rails shall be tubular in cross-section and shall conceal the rod mesh attachment.
 - a. Formed Tubular members: 10 gage sheet steel. Fabricate using a formed channel shape, with welded cover plate.
 - b. Reinforcement for Full Surface Hinge Application:
 - 1) Provide 1-1/2" x 2-1/2" x 3/16" x 6" long steel tubes to reinforce gate stiles at hinge locations.
 - 2) Weld steel tube reinforcement to stiles with two 1/2 inch dia. plug welds.
 - c. Miter and weld tubular members at the corners, and notch to accommodate the rod mesh.
 - d. Bevel lock edge.
- 3. Woven Rod Mesh: Two-inch square opening, arch/intermediate/lock crimped. Extend each rod end at least 1/2 inch into the frame and weld.
- 4. Lock Box:
 - a. Lock Box: Frame pocket with channels or flat bars to suit lock specified. Close box with 3/16 inch thick steel cover plate held in place with Torx center pin security head machine screws.
 - b. Locate removable cover plate on the STOP side of all Type "A" Gates.
- 5. Finishes: Galvanize entire assembly.
 - a. Galvanizing process shall conform to:
 - 1) ASTM A 123 for plain and fabricated material and assembled products.
 - 2) ASTM A 153 for iron and steel hardware.
 - b. Stamp galvanized items with name of galvanizer, weight of coating, and applicable ASTM number.
- 6. Thoroughly clean all steel prior to sending it to the galvanizer the entire assembly. Remove oil, grease, and similar contaminants in accordance with SSPC SP-1 "Solvent Cleaning". Remove steel mill stamp, loose mill scale, loose rust, weld slag and spatter, and other detrimental material in accordance with SSPC SP-2 "Hand Tool Cleaning", SSPC SP-3 "Power Tool Cleaning", SSPC SP-6 "Commercial Blast Clean" or SSPC SP-7 "Brush-Off Blast Cleaning".
 - a. Do not ship the entire assembly from the fabricating shop to the galvanizer prior to QA inspection and approval by the State or designated inspection laboratory that the assembly is in conformance with the Contract Documents.

- E. Accessories: Include all accessories required to perform the functions summarized in DESCRIPTION OF COMPLETED SYSTEM and as indicated on the drawings.

2.05 TYPE "B" GATE

- A. Gate frame:
 - 1. Pipe: 1.90 inches OD, 2.72 pounds per linear foot (Schedule 40).
 - 2. Class B Steel Tubing: 1.90 inches OD, 2.28 pounds per linear foot.
 - 3. Square Tubing: 2 inches OD, 2.60 pounds per linear foot.
- B. Hardware:
 - 1. Hinges: Pressed Steel 180 degree gate hinge item no. 014005 or appropriate for use by Hearne Steel Company, Inc.
 - 2. Prison Deadlock: 1 - Folger Adam No.86 or Southern Steel No.1080A-2.
 - 3. Cylinder Shields: 2 - Folger Adam No. 2CS or Southern Steel No. 219.
- C. Fabrication and manufacture:
 - 1. Gate frames: Assemble gate frames by welding. Install horizontal rails, and frame around lock box as indicated.
 - 2. Lock box: Fabricate lock box with channels, plates, angles and bars as shown. Provide removable cover plate held in place with TORX center pin security machine screws. Locate removable cover plate on side of gate opposite the threat side. If removable cover plate must be installed on threat side, secure plate with Torx PLUS center pin security machine screws. Galvanize the entire assembly.
 - a. Do not ship the entire assembly from the fabricating shop to the galvanizer prior to QA inspection and approval by the State or designated inspection laboratory that the assembly is in conformance with the Contract Documents.
 - 3. Fabric: Secure fabric to gate frame with stretcher bars and wire ties. Modify fabric as required around lock box, and secure ends of fabric within lock box as detailed. Do not weld fabric to gate frame.

2.07 CONTROL CONSOLES AND CABINETS

- A. Control Consoles: Desk type, constructed of 3/16 inch thick steel plate. Consoles shall have steel plate back, front and sides. All exposed corners and edges of console shall be rounded at not less than a one inch radius.
 - 1. Size: Width, depth and height as required to contain the control panel and related equipment, but within the limitations specified or shown. All switches and buttons shall be mounted within a distance that will make it unnecessary for the officer to move more than one step in either direction to reach them. Height of control panel shall be as shown on the Drawings, or if not shown, as directed.
- B. Control Cabinets: Construct control cabinets of 3/16 inch thick steel plates. Cabinets shall have solid back, and be reinforced and supported with flanged edges, angles or other shapes. Construct cabinets with continuous stops or angle seat around

perimeter of door and a 1/4 inch thick steel lock box so that it will be impossible to insert anything into any joint or crevice when the door is in the closed position.

1. Mounting: Free standing or surface mounted to Control Tower railing unless otherwise shown.
2. Size: As required to completely enclose the control panel and related equipment and afford ease of operation, but within the limitations specified. Hold cabinet depth as small as possible.
3. Door: 3/16 inch thick steel plate, hinged to avoid obstruction of view when open. Door shall open at least 90 degrees.
4. Hardware For Cabinet Doors: Equip cabinet door with plain bearing hinges, deadlock, key escutcheon, and door pull.
 - a. Plain Bearing Hinges: Malleable iron with steel pin, three knuckles; Folger Adam No. 3, Southern Steel No. 203 FS; galvanize for exterior applications.
 - b. Deadlock: Malleable iron and steel case. Galvanize for exterior doors. Cast steel bolt with 2 hardened steel roll pins Folger Adam No. 12 or Southern Steel No. 1010A-1 or R.R. Brink No. 7082.
 - c. Key Escutcheon: Stainless steel; Folger Adam Company's No. 1 or Southern Steel No. 218-1 or R.R. Brink No. SW1 with single wing escutcheon.
 - d. Exterior Application: Cylinder Shield, Stainless steel; Folger Adam No. 2Cs or Southern Steel No. 219 or R.R. Brink No. CS x US32D.
 - e. Door Pull: Cast Bronze, Folger Adam Company's No. 2, Southern Steel Company's No. 212 x US26D. Mount Door Pull above the lock.
5. Weatherproof and galvanize entire assembly.
6. Thoroughly clean all steel prior to sending it to the galvanizer the entire assembly. Remove oil, grease, and similar contaminants in accordance with SSPC SP-1 "Solvent Cleaning". Remove steel mill stamp, loose mill scale, loose rust, weld slag and spatter, and other detrimental material in accordance with SSPC SP-2 "Hand Tool Cleaning", SSPC SP-3 "Power Tool Cleaning", SSPC SP-6 "Commercial Blast Clean" or SSPC SP-7 "Brush-Off Blast Cleaning".
 - a. Do not ship the entire assembly from the fabricating shop to the galvanizer prior to QA inspection and approval by the State or designated inspection laboratory that the assembly is in conformance with the Contract Documents.

C. Control Panels:

1. General: Fabricate panels of 11 gage stainless steel with holes to receive switches, circuit breakers, and indicator lights. Fabricate housings and fastening battens of 10 gage mild steel with hammer tone gray finish. Each gate controlled by panel shall have a control switch, circuit breaker, and two indicator lights mounted in a horizontal line. A green light shall go on only when the gate is locked close. A red light shall show all other conditions of the gate. Lights shall be accessible and replaceable. Identify each gate controlled from panel.
2. Panels for Control Consoles: Panels shall form the top, be inclined down from back to front between 10 and 20 degrees from horizontal, and turn

down at least one inch over front and sides. Panel shall have a continuous stainless steel hinge at the back to allow it to swing up for maintenance, and be secured at the front, sides, and battens. Reinforce for security fasteners. Provide a pair of interior prop rods with automatic cam action to prevent accidental closing and to hold the panel in an open position for maintenance.

3. Panels for Control Cabinets: Hinge panel, on same side as cabinet door, to allow it to swing out 90 degrees for maintenance. Design panel so all switches can be operated from a standing position.

2.08 FASTENERS

- A. Bolts and Nuts: ASTM A 307, Grade A.
 1. Concealed Bolts: Standard common bolts with lock washers and nuts. For items requiring servicing or replacement, drill the bolts and equip them with cotter pins and flat washers.
 2. Exposed Bolts: Countersunk flathead security head Torx center pin bolts, with lock washers and nuts, unless otherwise specified.
- B. Machine Screws: ANSI/ASME B18.6.3.
 1. Concealed Machine Screws: Security head Torx center pin screws, unless otherwise specified.
 2. Exposed Machine Screws: Countersunk flat head security head Torx center pin screws, unless otherwise specified.
- C. Carriage Bolts:
 1. Exposed Bolts: Carriage bolts, with lock nuts and washers. (When mounting control console to counter top, install carriage bolt from the underside of counter top into the control console.)
 2. Plain Washers: Round, ASME B18.22.1.
 3. Lock Washers: Helical, spring type, ASME B18.21.1.

2.09 ELECTRICAL COMPONENTS FOR ELECTRIC OPERATING AND LOCKING SYSTEM AND ELECTRIC LOCKING SYSTEM

- A. General:
 1. Sliding gate components and their controls shall be suitable for connection to a 15 ampere, 120/208 volt, 3 phase, 60 Hz, dedicated circuit per each gate.
 2. Pedestrian gate components and their controls shall be suitable for connection to a 20 ampere, 120 volt, single phase, 60 Hz, dedicated circuit per each gate.
 3. Electrical components for which Underwriters' Laboratories, Inc. (UL) provides product listing service, shall be listed and bear the listing mark.
 4. Electrical components shall be the standard product of the detention equipment manufacturer except for the qualifications, which follow.
- B. Circuit Breaker: Individually protect control switch and circuit for each gate with a circuit breaker mounted in the panel adjacent to the switch: AIRPAX Series PR11-62-2 or 5, or Potter & Brumfield W28 series, 2 or 5 amp. Amperage as indicated on drawings.

- C. Indicator Lights: Industrial Devices Inc. 1091QM1-24VDC (RED), 1091QM5-24VDC (GREEN), SUPER-BRITE series LEDs, red or green as indicated on drawings.
- D. Three-Position Selector Switch: Allen-Bradley's 800T series, Cutler-Hammer's (Eaton) 10250T series switch, having:
1. Size: 30mm diameter for insertion in 31mm keyed panel opening.
 2. Metal Legend Plate: "OPEN – STOP – CLOSE".
 3. Operator Action: Spring return to Center (STOP) position from either left (OPEN) or right (CLOSE) positions.
 4. Handle (Knob): Black Lever Handle (Gloved Hand Lever).
 5. Contact Blocks: Configuration and number of contact blocks as required.
- E. Momentary Contact Push-button Switch: Allen-Bradley's 800T series, Cutler-Hammer's (Eaton) 10250T series switch, having:
1. Size: 30mm diameter for insertion in 31mm keyed panel opening.
 2. Push-button: Black flush head
 3. Contact Blocks: Minimum of one contact block with 1 normally open (N.O.) contact and 1 normally closed (N.C.) contact. Provide additional contact blocks as required.
- F. Key Operated Interlock Bypass Switch: Two Position Selector Switch: Allen-Bradley's 800T series, Cutler-Hammer's (Eaton) 10250T series switch, having:
1. Size: 30mm diameter for insertion in 31mm keyed panel opening.
 2. Metal Legend Plate: "INTERLOCK BYPASS".
 3. Operator Action: Maintained position for both positions. Key is non-removable when switch is in "Interlock Bypass" mode.
 4. Handle (Knob): Keyed switch, furnish three keys for each switch.
 - a. All interlock bypass switches shall be keyed alike, but unlike any other keyed switch on the board.
 5. Contact Blocks: Minimum of one contact block with 1 normally open (N.O.) contact and 1 normally closed (N.C.) contact. Provide additional contact blocks as required.
- G. Key Operated Control Panel Power Cut-off Switch (which activates a magnetic contactor): Two Position Selector Switch: Allen-Bradley's 800T series, Cutler-Hammer's (Eaton) 10250T series switch, having:
1. Size: 30mm diameter for insertion in 31mm keyed panel opening.
 2. Metal Legend Plate: "ON - OFF".
 3. Operator Action: Maintained position for both positions. Key is non-removable when switch is in "Power On" mode.
 4. Handle (Knob): Keyed switch, furnish three keys for each switch.
 - a. All Power Cut-off switches shall be keyed individually and unlike any other keyed switch.
 5. Contact Blocks: Minimum of one contact block with 1 normally open (N.O.) contact and 1 normally closed (N.C.) contact. Provide additional contact blocks as required.
- H. Key Operated Maintenance Switch (which activates a magnetic contactor): Two Position Selector Switch: Allen-Bradley's 800T series, Cutler-Hammer's (Eaton) 10250T series switch, having:

1. Size: 30mm diameter for insertion in 31mm keyed panel opening.
 2. Metal Legend Plate: "ON - OFF".
 3. Operator Action: Maintained position for both positions. Key is removable in the ON position only.
 4. Handle (Knob): Keyed switch, furnish three keys for each switch.
 - a. All maintenance switches shall be keyed alike, but unlike any other keyed switch on the board.
 5. Contact Blocks: Minimum of one contact block with 1 normally open (N.O.) contact and 1 normally closed (N.C.) contact. Provide additional contact blocks as required.
- I. Plunger Power Switch: SPST (NC), Carlingswitch Model 170 (Granger #2X901) which activates a magnetic contactor; suitable for use with gate control cabinet and size as required.
- J. 24 Volt Power Supply: Silver Line Linear Power Supplies, Model SLS-24-012T or Sola Heviduty Model No. SDP-24-100, output rating (24volt/1.2 amps). Screw terminal connections, temp range 0 degrees C to +50 degrees C, automatic current limiting, DC output adjustable 10 percent minimum.
- K. Contactors and relays: ABB MDRC's Modular DIN Rail Components.
- L. Wiring Conductors: Provide wiring in accordance with Section 260505.
- M. Protect motors with automatic reset type thermal overload controls, and limit switches.
- N. Interlocking components: Provide all accessories (relays, contactors, etc.) required to perform the interlocking requirements summarized in DESCRIPTION OF COMPLETED SYSTEM, and elsewhere in this section.
- O. Accessories: Include all accessories required to perform the functions summarized in DESCRIPTION OF COMPLETED SYSTEM and as indicated on the drawings.
- P. Markers:
 1. Premarked self-adhesive; W. H. Brady Co.'s B940, Thomas and Betts Co.'s E-Z code WSL self-laminating, Ideal Industries' Mylar/Cloth wire markers, or Markwick Corp.'s permanent wire markers.
 2. Flexible sleeve markers: Plastic Extruded Parts Inc.'s FS series.
 3. Snap-on markers: Plastic Extruded Parts Inc.'s RS series.
 4. Thermal transfer (non-smearing), Brady's ID PAL hand held labeling tool portable thermal transfer printer or equal.

2.10 INTERLOCKING

- A. Electrically interlock the following gates at the control panel(s). Gates shall remain in the locked closed position, if more than one control switch is pressed simultaneously.
1. Gates G-3 and G-4 shall be interlocked so only one of these gates can be unlocked (from the locked closed position) at any time.

2. Gates G-22 and G-23 shall be interlocked so only one of these gates can be unlocked (from the locked closed position) at any time
- B. Interlock bypass the following:
1. Gates G-3 and G-4.
 2. Gates G-22 and G-23.

2.11 KEYING

- A. Key locks as specified, and incorporate a keying schedule into the hardware schedule for approval.
1. Key changes shall be different from changes previously used at this Facility.
 2. Record key changes to avoid future unintended duplication.
 3. Furnish seven keys for each change, except as noted.
 4. Furnish extended shank keys when required.
 5. Key locks as follows:
 - a. Keyed alike Gates G-3 and G-4.
 - b. Keyed alike Gates G-22 and G-23.
 - c. Keyed alike: Each Interlock by-pass switch.
 - d. Keyed individually: Gate Control Console Power Switch.
 - e. Keyed individually: Each Maintenance Selector Switch.
 - f. Keyed individually: Gate Control Cabinet door.

2.12 IDENTIFICATION PLATES

- A. Locking Systems and Control Consoles/Cabinets: Each locking system and control console/cabinet shall have an engraved plate containing the following information:
1. Manufacturer's name, telephone number, type of system (Locking), date of installation, and name of installer.
 2. Permanently attach plate to the inside of the motor cabinet of sliding gates, and inside the housing of control consoles and cabinets.
- B. Gate Identification: Provide at each gate a stainless steel identification plate(s), sized 2" x 4", with individual gate numbers (G-1, G-12, etc.) laser cut from the plate stock. Height of letters/numbers shall be 1" min. Prior to applying plates, paint the area immediately behind the plate with black paint to provide contrast between the plate and incised numbers/letters. Attach plate with 4 Torx screws. Unless shown or directed otherwise, locate plates as follows:
1. Type "A" Gates: Attach to the frame above the lock, on both sides of each gate.
 2. Sliding Gates: Attach to the cover of the motor cabinet or emergency release column.
 3. Type "B" Gates: Attach to the face of the lock-mounting box, on the compound side of the gate.
- C. Sliding Gate Operator Motor Housing Cabinet: Inside the motor housing cabinet of each sliding gate operator system provide a warning label, 3" x 6" minimum in size, red with white lettering, engraved with the following inscription:

“WARNING
(PRIOR TO SERVICING)
DISCONNECT BOTH THE
MOTOR OPERATOR CIRCUIT
AND THE GEARBOX HEATER
CIRCUIT”

1. Phenolic: Two color laminated engravers stock, 1/16 inch minimum thickness, machine engraved to expose inner core color (white).
2. Precision engrave letters and numbers with uniform margins, character size minimum 3/16 inch high.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install the Work of this Section in accordance with the Company’s printed instructions and approved shop drawings.
- A. Brace assembled sections until permanently secured in place to prevent displacement or distortion of the members. Do not utilize metal bracing to support gate post when plumbing or securing posts. No welding allowed.
- B. Comply with the requirements of FABRICATION AND MANUFACTURE Article. Touch-up abraded areas as required, with compatible primer and finish paint, or cold galvanizing compound.
 - a. Galvanizing Repair Paint: 2.0 Mils dry film.
 - b. Galvanized Metal: Allow new galvanized surfaces to weather as long as possible before cleaning. Remove surface contaminants using clean rags and petroleum spirits.
 - c. Remove “white rust” using appropriate solvent and, if necessary, wire brushing.
 - d. Use appropriate Structural Steel Painting Council Standard SSPC-SP1 to SSPC-SP6 to clean steel substances where galvanized protection has been removed.
- D. Use only rotary power drills where masonry or concrete is required to be drilled. Drill holes to exact size required.
- E. Perform welding in accordance with the AWS Codes.
 1. Hinges: Attach ground so welding current will not be carried through the hinge barrel.
- F. Neatly install and securely fasten hardware. Keep polished hardware and handles free from scratches and defacement with temporary protective covers.
- G. Identify conductors with markers at terminal strips, cabinets, consoles and pullboxes. Designations shall correspond with point to point wiring diagrams.

- H. If post tops or extension arms will not be installed prior to impending rain, provide temporary covers over tops of posts to prevent posts from filling with water.
- I. Field Welding: Comply with AWS Codes for the procedures for shielded metal arc welding, for the appearance and quality of welds, and for the methods used in correcting welding Work.

3.02 FIELD QUALITY CONTROL

- A. Site Inspections:
 - 1. General: Selected manufacturer shall visit the construction site during the various phases of construction to inspect and approve the installation contractor's work. Schedule of inspections are as follows:
 - a. Pre-Construction Meeting: Manufacturer of each type of gate shall meet with the construction team to review facility specific site conditions including any grade issues, electrical and control wiring issues, and to develop a written schedule to complete the balance of site inspections.
 - b. Concrete Embedment Beam: Manufacturer's representative shall be on site prior to the concrete pour to inspect the support post alignment. Factory representative shall also inspect the finish grade to be sure the installation is within the manufacturer's specifications. Inspection service shall not be less than four working hours per gate installation.
 - c. Track Assembly: Manufacturer's representative shall be on site prior to the installation of the track Assembly to inspect the support post alignment and provide technical advice in installing the Track Assembly. Inspection service shall not be less than eight working hours per gate installation.
- B. Final Site Inspection and Staff Training:
 - 1. Manufacturer's representative shall visit the site and review the work of the various trades (i.e., fence, electrical and controls contractors), involved with the construction of the gate system. All trades shall attend the final inspection meeting in the event corrective work needs to take place. The site inspection will be ongoing until the manufacturer's representative signs off on the equipment.
 - 2. Facility Training Day: Facility equipment training course shall last for a minimum of five working hours.
- C. Preliminary System Test:
 - 1. Preparation: Have the Technical Advisor adjust the completed system and then operate it long enough to assure that it is performing properly.
 - 2. Run a preliminary test for the purpose of:
 - a. Determining whether the system is in a suitable condition to conduct the acceptance test.
 - b. Checking and adjusting equipment.
 - c. Training facility personnel.

- D. Remove protective covering from hardware, etc., before Systems Acceptance Test.
- E. System Acceptance Test:
 - 1. Preparation: Notify the Director's Representative at least three working days prior to the test so arrangements can be made to have a Facility Representative witness the test.
 - 2. Test each system function step by step as summarized under DESCRIPTION OF COMPLETED SYSTEM for each gate.
 - 3. Supply all equipment necessary for system adjustment and testing.
 - 4. Submit written report of test results signed and dated by Technical Advisor and the Director's Representative.

3.03 ADJUSTING

- A. Adjust operative units and equipment to work freely and easily, ready for use. Field lubricate operating and locking systems in accordance with the manufacturer's maintenance instructions. Adjust equipment when the temperature is approximately 70 degrees F.

3.04 TURNOVERS

- A. All existing locks and associated detention hardware removed and/or replaced during the work of this contract shall be turned over to the facility.

END OF SECTION

QUALITY ASSURANCE SUBMITTAL FORM

A. Manufacturer's Qualification Data:

Provide below the names, addresses and Facility contacts of 4 similar projects where manufacturer's equipment and hardware has been in operation for not less than 3 years.

SLIDING GATE OPERATOR SYSTEM

Manufacturer: _____

1)	2)
3)	4)

TYPE 'A' GATE SYSTEM

Manufacturer: _____

1)	2)
3)	4)

B. Installation Qualification Data:

- a. Provide the name, business address, and telephone numbers of the installation company.

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- b. Provide name of person supervising installation and completion of Work of this Section.

- c. Provide names, addresses and Facility contacts of 4 similar projects this person has supervised for a minimum of 3 years.

1)	2)
3)	4)

- d. Attach written verification from the manufacturer that the person supervising the work is trained and qualified in the installation of the accepted gate and detention products.

C. Technical Advisor's Qualifications Data:

- a. Provide name, business address and telephone numbers of technical advisor(s) for each Gate System.

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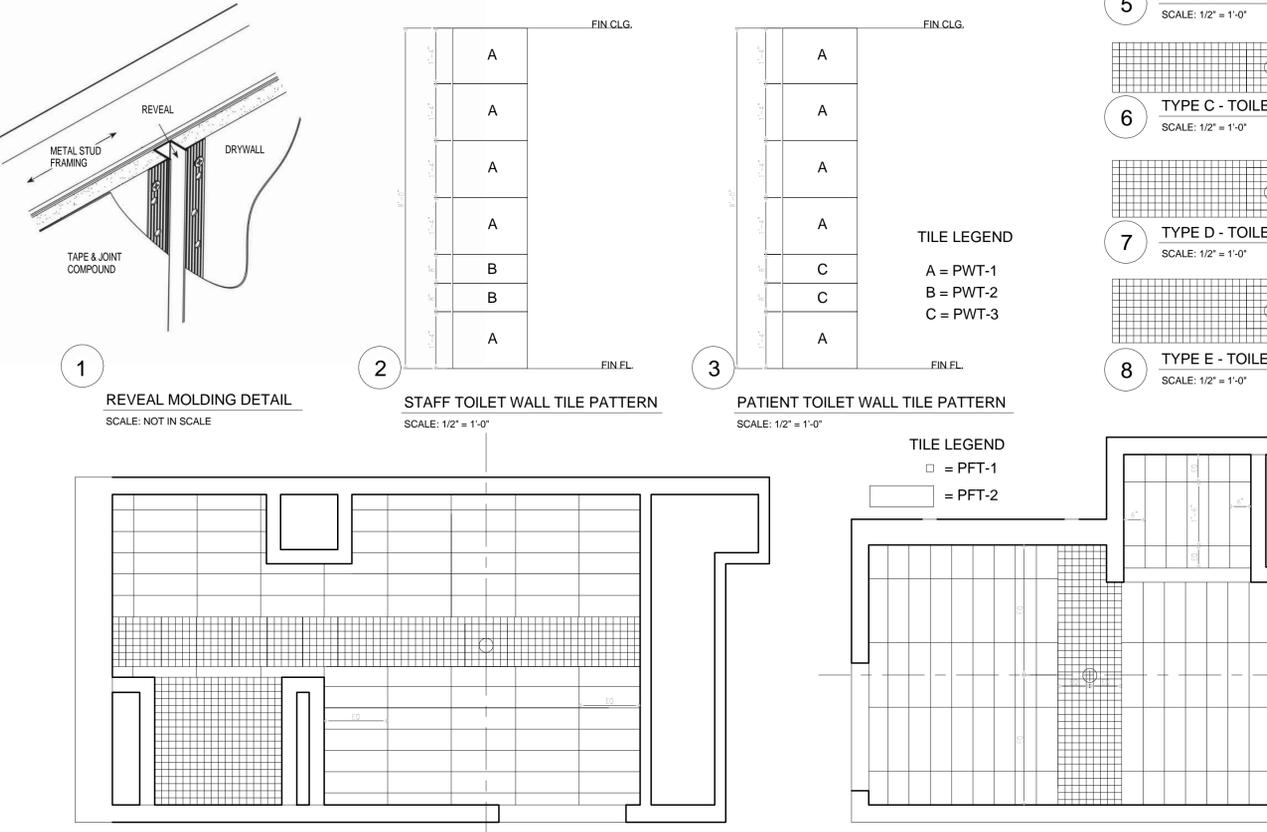
- b. Attach written certification from gate systems equipment and detention hardware manufacturers that advisor is technically qualified in design, installation and servicing of products.

END OF FORM

FINISH SCHEDULE						
CODE	PRODUCT	MANUFACTURER	COLLECTION / MODEL #	COLORS	SIZE & FINISH	REMARKS
P-1	PAINT	SHERWIN WILLIAMS	HARMONY	SW 7012 CREAMY	EG-SHEL, U.O.N.	FIELD WALL PAINT BASEMENT -9
P-2	PAINT	SHERWIN WILLIAMS	HARMONY	SW 6107 NOMADIC DESERT	EG-SHEL, U.O.N.	ACCENT WALL PAINT ON FLOORS BASEMENT - 2/ ACTIVITY ROOM ON FLOORS 3-11
P-3	PAINT	SHERWIN WILLIAMS	HARMONY	SW 6403 ESCAPE GOLD	EG-SHEL, U.O.N.	ACCENT WALL PAINT ON FLOORS 3-5
P-4	PAINT	SHERWIN WILLIAMS	HARMONY	SW 6683 BEE	EG-SHEL, U.O.N.	ACCENT WALL PAINT ON FLOORS 6-9
P-5	PAINT	SHERWIN WILLIAMS	HARMONY	SW 6256 SERIOUS GRAY	EG-SHEL, U.O.N.	ACCENT WALL PAINT ON FLOORS 10-11
P-6	PAINT	SHERWIN WILLIAMS	HARMONY	SW 6500 OPEN SEAS	EG-SHEL, U.O.N.	ACCENT WALL PAINT ON FLOORS 12-14
P-7	PAINT	SHERWIN WILLIAMS	HARMONY	SW 7018 ACCESSIBLE BEIGE	EG-SHEL, U.O.N.	FIELD WALL PAINT IN PATIENT ROOM
P-8	PAINT	SHERWIN WILLIAMS	DTM ACRYLIC COATING	SW 7012 CREAMY	SEMI-GLOSS	DOOR / DOOR FRAME PAINT BASEMENT-FL 9; USE W/ SW PRO-CRYL UNIVERSAL PRIMER
P-9	PAINT	SHERWIN WILLIAMS	HARMONY	SW 6379 JERSEY CREAM	EG-SHEL, U.O.N.	ACCENT WALL PAINT IN VISITING ROOM ON FLOOR 1
P-10	PAINT	SHERWIN WILLIAMS	HARMONY	SW 0073 CHARTREUSE	EG-SHEL, U.O.N.	ACCENT WALL PAINT IN STAFF LOUNGE
P-11	PAINT	SHERWIN WILLIAMS	HARMONY	SW 6163 GRASSLAND	EG-SHEL, U.O.N.	ACCENT WALL PAINT IN WAITING ROOM ON FLOOR 1
P-12	PAINT	SHERWIN WILLIAMS	HARMONY	TBD	TBD	ACCENT WALL PAINT AT RECEPTION ON FLOOR 2
P-13	NOT USED					
P-14	PAINT	SHERWIN WILLIAMS	HARMONY	SW 0075 HOLIDAY TURQUOISE	EG-SHEL, U.O.N.	FIELD WALL PAINT IN RECREATION ROOM ON FLOORS 13, 14
P-15	PAINT	SHERWIN WILLIAMS	HARMONY	SW 6528 COSMOS	EG-SHEL, U.O.N.	FIELD WALL PAINT IN WEIGHT ROOM ON FLOOR 14
P-16	PAINT	SHERWIN WILLIAMS	HARMONY	SW 7005 PURE WHITE	EG-SHEL, U.O.N.	CEILING PAINT, FIELD WALL PAINT ON FLOORS 10-14, U.O.N.
P-17	PAINT	SHERWIN WILLIAMS	DTM ACRYLIC COATING	SW 7005 PURE WHITE	SEMI-GLOSS	DOOR / DOOR FRAME PAINT 10-14; USE W/ SW PRO-CRYL UNIVERSAL PRIMER
P-18	PHOTOLUMINESCENT PAINT	EVERGLOW	TL300 EPOXY COATING KITS	-	-	PAINT STRIPES APPLIED TO FLOOR, WALLS & HANDRAILS AT EGRESS STAIRS
P-19	PAINT	SHERWIN WILLIAMS	DTM ACRYLIC COATING	SW 6809 LEMON TWIST	SEMI-GLOSS	STAIR HAND RAIL/UNDERSIDE-STAIR/GATE/STRANGER; USE W/ SW PRO-CRYL UNIV. PRIMER
Z-1	MULTICOLOR INTERIOR COATING	ZOLATONE	FLEX	FLX-0029		FIELD WALL PAINT IN CORRIDORS 9-9, ELEV. LOBBY 9-9TH FL
Z-2	MULTICOLOR INTERIOR COATING	ZOLATONE	FLEX	FLX-01024		FIELD WALL PAINT IN CORRIDORS 10-14, ELEV. LOBBY 10-14
WC-1	WALLCOVERING	TRIKES	LANARK WALLCOVERING	STRAND, TBD		WALLCOVERING IN RECEPTION & CORRIDOR AREAS
WC-2	WALLCOVERING	KOROSEAL	PATANA	TBD		WALLCOVERING IN CONFERENCE ROOM
WC-3	WALLCOVERING	TRIKES	LANARK WALLCOVERING	CAPULET, TBD		WALLCOVERING IN EXECUTIVE OFFICES
WP-1	HIGH IMPACT WALL PROTECTION	CS ACRYOYN		#704, BRAZILIAN NUT		PATIENT ROOM DOORS ON FLOORS 3-11; VERTICAL SURFACE FOR RECEPTION DESK
WP-2	HIGH IMPACT WALL PROTECTION	CS ACRYOYN	ACRYOYN BY DESIGN	CUSTOM PRINTED		ACCENT WALL IN ELEVATOR LOBBY, OBSERVATION POSTS & YOGA RM; IMAGES WILL VARY
WP-3	HIGH IMPACT WALL PROTECTION	CS ACRYOYN		#410, BRUSHED SILVER		APPLIED TO VERTICAL SURFACE OF NURSES STATION
CG	HIGH IMPACT CORNER GUARD	CS ACRYOYN	ACRYOYN 4000, VA SERIES 250N	#934, PEARL	SUEDE TEXTURE	
PE	HIGH IMPACT PARTITION END	CS ACRYOYN	ACRYOYN 4000, VA SERIES 250N	#934, PEARL	SUEDE TEXTURE	
WG-1	HIGH IMPACT WALL PROTECTION	CS ACRYOYN	ACRYOYN 4000, FR-225	#934, PEARL	SUEDE TEXTURE	CRASH RAIL WALL GUARD APPLIED TO OBSERVATION POSTS DESK & IN DINING ROOM
PW-1	PADDED WALL	MARATHON ENG. CORP.		GOLD MEDAL SAFETY PADDING	TBD	PADDED WALL & FLOORS IN SECLUSION ROOMS
PW-2	GYM PAD WALL	DRAPER		ECOVISION CLASS A FLAME RETARDANT WALL PADS	NAVY BLUE	APPLIED WALL PAD CUT OUT TRIM FOR OUTLET IF NECESSARY
PWT-1	PORCELAIN WALL TILE	DAL-TILE	EVER	EVO1, MOON	16" X 24", LIGHT POLISHED	FIELD WALL TILE IN TOILET (A)
PWT-3	PORCELAIN WALL TILE	DAL-TILE	EVER	EVO5, EARTH	8" X 24" X 0.313", LIGHT POLISHED	ACCENT WALL TILE IN STAFF TOILET (B)
PWT-2	PORCELAIN WALL TILE	DAL-TILE	EVER	EVO4, ROCK	8" X 24" X 0.313", LIGHT POLISHED	ACCENT WALL TILE IN PATIENT TOILET (C)
WB-1	RUBBER WALL BASE	ROPPE	PINNACLE PLUS, #35	122, NATURAL	4-9/16" X 1/4"	TYPICAL WALL BASE U.O.N.
WB-2	RUBBER WALL BASE	ROPPE	PINNACLE PLUS, #35	114, LUNAR DUST	4-9/16" X 1/4"	
WB-3	RUBBER WALL BASE	ROPPE	PINNACLE PLUS, #35	140, FAWN	4-9/16" X 1/4"	
WB-4	WOOD WALL BASE	CS ACRYOYN	SARATOGA SERIES, WALL BASE TRIM, MITERED	#372 CLASSIC MAPLE		TYPICAL WALL BASE IN EXECUTIVE AREA ON FLOOR 2
WB-5	RUBBER WALL BASE	ROPPE	PINNACLE PLUS, #35	193, BLACK BROWN	4-9/16" X 1/4"	TYPICAL WALL BASE FOR RECEPTION DESK & OBSERVATION POST
WB-6	PERFORMED COVE BASE	MANNINGTON	BIOSPEC	15349 STEEL BLUE	4"	SHEET VINYL COVE BASE IN BARBER SHOP
FT-1	TERRAZZO TILE	FRITZTILE		CS21590, SHEER GRAY FLAT	12" X 12" X 0.18"(3/16")	TYPICAL FLOORING IN ELEVATOR AREA
FT-2	TERRAZZO TILE	FRITZTILE		CS21596, ROMAN GRAY FLAT	12" X 12" X 0.18"(3/16")	TYPICAL FLOORING BORDER IN 1ST/2ND FL LOBBY AREAS
VT-1	VINYL TILE	ROPPE	SAFECORK	#W198, WHITE IVORY	36" X 36" X 0.08"	TYPICAL FLOORING IN CORRIDORS ON FLOORS 3-9
VT-2	VINYL TILE	ROPPE	SAFECORK	#W197, WHITE ICEBERG	36" X 36" X 0.08"	TYPICAL FLOORING IN CORRIDORS ON FLOORS 1, 10-14
VT-3	VINYL TILE	ROPPE	SAFECORK	#W154, SALEM BLUE	36" X 36" X 0.08"	ACCENT FLOORING IN CORRIDORS ON FLOORS 12-14
VT-4	VINYL TILE	ARMSTRONG	STRATIIONS BBT	T814, BISQUE	12" X 24" X 0.125"	TYPICAL FLOORING IN EXAM & TREATMENT ROOM STUDENT LOUNGE
VT-5	VINYL TILE	ARMSTRONG	STRATIIONS BBT	T812, STARDUST	12" X 24" X 0.125"	TYPICAL FLOORING IN STORAGE, FILE, IT ROOM, LOCKER & PATIENT LAUNDRY
VT-6	VINYL TILE	ROPPE	STATDEFEND	#702, ELECTRON BEIGE	36" X 36" X 0.08"	TYPICAL FLOORING IN CORRIDOR ON BASEMENT, MS ROOMS AS NOTED
VT-7	VINYL TILE	ROPPE	STATDEFEND	#753, STRATUS BLUE	36" X 36" X 0.08"	TYPICAL FLOORING IN BUILDING 106
VT-8	METAL STUDDED RUBBER TILE	CANAL RUBBER		STAINLESS STEEL STUDDED RUBBER TILE	12" X 12" X 1/8"	TYPICAL FLOORING IN NEW ELEVATOR CABS
VS-1	VINYL SHEET	MANNINGTON	BIOPEC	15397, PALM	x 0.08"	ACCENT FLOORING IN CORRIDORS ON FLOORS 3-5
VS-2	VINYL SHEET	MANNINGTON	BIOPEC	15356, JONQUIL	x 0.08"	ACCENT FLOORING IN CORRIDORS ON FLOORS 6-9
VS-3	VINYL SHEET	MANNINGTON	BIOPEC	15349, STEEL BLUE	x 0.08"	ACCENT FLOORING IN CORRIDORS ON FLOORS 10-11; BARBER SHOP
GF-1	GYM FLOOR	LONSEAL		LOWWOOD WITH FOAM	TBD	TYPICAL FLOORING IN EXERCISE/YOGA & WEIGHT ROOMS
GF-2	GYM FLOOR	LONSEAL		LONCOURT 1	1 MAPLE	TYPICAL FLOORING IN GYMNASIUM
LVT-1	LUXURY VINYL PLANK	ADORE	DECORIA	MA-M001	7" X 48" X 0.12"	TYPICAL FLOORING IN ALL PATIENT BEDROOMS
LVT-2	LUXURY VINYL PLANK	ADORE	DECORIA	MA-M003	7" X 48" X 0.12"	TYPICAL OFFICE FLOORING ON FLOOR 3-14
LVT-3	LUXURY VINYL TILE	MANNINGTON	NATURE'S PATH PARALLELS	# 12203, LINEN	18" X 18" X 0.10"	TYPICAL FLOORING IN STAFF LOUNGE AND CONFERENCE ROOM
LVT-4	LUXURY VINYL TILE	MANNINGTON	NATURE'S PATH PARALLELS	# 12204, STONEWASHED	18" X 18" X 0.10"	TYPICAL FLOORING ON FLOOR 2, CORRIDOR
LVT-5	LUXURY VINYL TILE	MANNINGTON	NATURE'S PATH PARALLELS	# 12205, BEACH GRASS	18" X 18" X 0.10"	TYPICAL FLOORING IN OFFICES ON BASEMENT AND FLOOR 2
TT-1	FLOOR TRANSITION	ROPPE	PART #59	TBD	1/8" X 0.08"	VINYL TILE - VINYL TILE/ MATCH COLOR WITH ADJACENT FINISHES
TT-2	FLOOR TRANSITION	ROPPE	PART #65	184 ALMOND	1/4" X 1/8"	VINYL TILE - FRITZTILE
TT-3	FLOOR TRANSITION	SCHLUTER SYSTEMS	RENDO - U ALUMINUM TRANSITION STRIP - SCHIENE	STAINLESS STEEL		CARPET - FRITZTILE
TT-4	FLOOR TRANSITION	SCHLUTER SYSTEMS	MARBLE SADDLE	WHITE MARBLE		PORCELAIN TILES TO VINYL TILE/ APPLIED TO TOILET TRANSITION
TT-6	EXPANSION JOINT SYSTEM	INPRO		TBD		MATCH COLOR WITH ADJACENT FINISHES. SEE A-810 FOR DETAILS
RT-1	RIBBED RUBBER INSERT	ROPPE	LL	SAFETY YELLOW	2" X 1/8"	COURT ROOM 167B & VISITING ROOM 106A STEPS
RT-2	SAFETY NOSING	WOOSTER		SUPERGRIT SAFETY TREAD TYPE 1218F	1/2"	ALL CONCRETE STEEL PAN STAIRS TO HAVE SAFETY NOSING
EP-1	EPOXY	SHERWIN WILLIAMS		GENERAL POLYMERS 3745 & POLYURETHANE 4409	SW 6256 SERIOUS GRAY	APPLIED TO MECH. ROOM, ELEC. ROOM, EX. SERV. ELEV. CORR.
EP-2	EPOXY (NON-SKID)	SHERWIN WILLIAMS		GEN. POL. 3745 & GEN. POL. 5191 ADDITIVE & POLY 4409	SW 6256 SERIOUS GRAY	APPLIED TO STAIRS/ STAIRCASE VESTIBULE
WM-1	WALK-OFF MAT	CS ACRYOYN	GRIDLINE	MLL (STANDARD)	1-1/8" DEPTH	APPLIED TO 101A & 165B VESTIBULES
PFT-1	PORCELAIN FLOOR TILE	DAL-TILE	COLOR SCHEME/ LINEAR	B903, BISCUIT SOLID STD	8" X 18" X 0.313"	FIELD FLOOR TILE IN TOILET
PFT-2	PORCELAIN FLOOR TILE	DAL-TILE	COLOR BODY / KEYSTONES	D161, URBAN PUTTY	2" X 2" X 0.25"	ACCENT FLOOR TILE IN TOILET
PW-1	PADDED FLOOR	MARATHON ENG. CORP.		GOLD MEDAL SAFETY PADDING	TBD	PADDED WALL & FLOORS IN SECLUSION ROOMS
C-1	CARPET	INTERFACE	3000 SERIES COLLECTION - S303	109146 DOVE	19.6" X 19.6" X 0.11" (50CM X 50CM X 2.8MM)	FLOORING IN COURT ROOM & JUDGE'S CHAMBERS
C-2	CARPET	INTERFACE	TONGUE IN GROOVE	109726 SYCAMORE	19.6" X 19.6" X 0.142" (50CM X 50CM X 3.6MM)	FLOORING IN 1st FL & 2nd FL CONFERENCE ROOMS
C-3	CARPET	INTERFACE	2000 SERIES COLLECTION - S201	9798 SAGE	19.6" X 19.6" X 0.142" (50CM X 50CM X 3.6MM)	FLOORING IN EXECUTIVE OFFICES
C-4	CARPET	INTERFACE	1000 SERIES COLLECTION - S102	9841 SAGE	19.6" X 19.6" X 0.086" (50CM X 50CM X 2.2MM)	FLOORING IN EXECUTIVE CORRIDOR & RECEPTION
SS-1	SOLID SURFACE MATERIAL	DUPONT CORIAN	PRIVATE COLLECTION	CAMEO WHITE		APPLIED TO COUNTERTOP AT PANTRY / EXAM ROOM
SS-2	SOLID SURFACE MATERIAL	DUPONT CORIAN	PRIVATE COLLECTION	CLAM SHELL		APPLIED TO COURT ROOM JUDGE STATION MARBLE VENEER, TOP RAIL & STAIR TREADS
HW-1	MAPLE WOOD VENEER STAIN	SHERWIN WILLIAMS	WOOD CLASSICS	PEARWOOD SW 3121-B		APPLIED TO WRITING COUNTER OF RECEPTION DESK, OBSERV STATION & DISP. COUNTER
PL-2	PLASTIC LAMINATE	NEVAMAR	ARMORED PROTECTION	W325T - SOVEREIGN CHERRY		APPLIED TO WRITING COUNTER OF RECEPTION DESK, OBSERV STATION & DISP. COUNTER
PL-3	PLASTIC LAMINATE	MDMARK	WOODGRAINS	HAYWOOD CHERRY		APPLIED TO CABINETRY AT PANTRY / EXAM ROOM

FINISH SCHEDULE						
CODE	PRODUCT	MANUFACTURER	COLLECTION / MODEL #	COLORS	SIZE & FINISH	REMARKS
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG OR USG	OPTIMA REGULAR HALCYON 98221	WHITE	24" X 24"	9/16" SUPRAPINE, SQUARE LAY IN TEGULAR FIELD PANEL (FINE TEXTURE)
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	METALWORKS CLIP-ON	WHITELIME	24" X 24"	DOWN DXT CENTRICITEE 9/16" SUSPENSION GRID
ACT-4	ACOUSTIC CEILING TILE	ARMSTRONG	DUNE	WHITE	24" X 48"	1. SUSPENSION SYSTEM: 15/16" PRELUDE XL CROSS TEE AND T301 MAIN BEAM, HEAVY DUTY (HD) 2. PERFORATION OPTIONS: 1M6R6 1607, NRC 0.70 WITH ACOUSTICAL FLEECE AND 1" FIBERGLASS INFILL 8200/100 3. PANEL: METALWORKS WHITE LIME (WAL) BUTT JOINT 7/16" ACCESSIBLE PANELS WILL BE 18" REVEAL 7/16" THE ACCESSIBLE HOLE AT THE ACCESSIBLE PANEL TO BE FITTED WITH SET IN SCREENS COUNTERSUNK, PROVIDED BY GC. SCREENS SHOULD BE 5/16" IN DEPTH OR SHORTER. 4. ACCESSORIES: (a) PROVIDE 7/16" OR 1/2" FUTURE FRAME FOR LIGHT FIXTURES AND DIFFUSERS; (b) WALL MOLDING TO BE 7/16" BOX MOLDING WITH 7/16" SPREADER HOLD DOWN. (c) ALL ACCESSORIES SHALL BE WHITE. (d) ALL SUSPENSION GRID SHALL BE HEAVY DUTY (HD).
ACT-5	ACOUSTIC CEILING TILE	ARMSTRONG	OPTIMA REGULAR	WHITE	12" X 48" 24" X 48"	SQUARE LAY IN (FINE TEXTURE) 15/16" PRELUDE XL HEAVY DUTY T301, WALL MOLDING TO BE 7/16" BOX MOLDING WITH 7/16" SPREADER HOLD DOWN. ALL ACCESSORIES SHALL BE WHITE
ACT-9	ACOUSTIC CEILING TILE	ARMSTRONG	TECHZONE OPTIMA/3257/3257PB	WHITE	24" X 48"	9/16" SUPRAPINE XL SQUARE TEGULAR
GWB-1	GYPSUM BOARD	USG	TECHZONE OPTIMA/1403 HALCYON 98198, 98245	WHITE	6" X 48"	9/16" SUPRAPINE XL SQUARE TEGULAR
GWB-2	VERY HIGH IMPACT GYPSUM BOARD	USG	SHEETROCK MOLD TOUGH VERY HIGH IMPACT (VH)	WHITE	24" X 48", 6" X 48"	DOWN DXT CENTRICITEE 9/16" SUSPENSION GRID

- NOTES:
- ALL EXISTING CONDITIONS TO BE PATCHED AND CLEANED
 - REMOVE ALL EXISTING FLOOR, WALL BASE, WALL AND CEILING FINISHES AND REPLACE WITH NEW.
 - ALL WALL BASE TO BE CONTINUOUS WITHOUT CUTS IN BETWEEN DOOR JAMBS
 - SCHLUTER SYSTEMS TO BE INCORPORATED IN ENTIRE FLOORS AND WALLS WITHIN PATIENT TOILETS, PATIENT TOILETS/ SHOWERS, GANG - TOILETS AND NON-PATIENT SHOWERS.
 - SCHLUTER SYSTEMS SHALL BE APPLIED TO FLOOR AND TO FULL HEIGHT WALL. SEE DRAWING A-815 FOR DETAIL INFORMATION.
 - SELF LEVELING COMPOUND THROUGHOUT TO PREPARE ALL NEW FINISHES. SHOT BLAST EXISTING AND PREP/PRIME AS PER MANUFACTURER'S RECOMMENDATION. NO LESS THAN 1/4"; AVERAGE 1/2" REFER TO SPECIFICATION FOR PREPARATION DETAILS.
 - ALL PORCELAIN TILE GROUT JOINTS SHALL MATCH PWT-1
 - ALL EXAM ROOMS AND TREATMENT ROOMS SHALL INCLUDE PRIVACY CURTAIN: ARC COM LUNAR-X AC-33126X (SPRING #3). ALL PRIVACY CURTAINS SHALL BE INSTALLED WITH INPRO POP OUT CARRIERS.
 - FOR WG-1 OBSERVATION POST INSTALLATION POSTS, REFER TO DRAWINGS A-908-2/3. WG-1 INSTALLATION HEIGHT IN DINING ROOMS IS 36" A.F.F.
 - WG-1 SHALL BE INSTALLED WITH TAMPER PROOF SCREWS.
 - WG-1 SHALL BE INSTALLED ON OBSERVATION POST DESKS, IN PASSAGE WAY FROM THE ELEVATOR BANKS TO THE DINING ROOMS, IN THE DINING ROOMS & IN CART NICHES.
 - ENDURA GAME LINE GYM FLOOR PAINTS SHALL BE USED FOR COURT LINE MARKINGS ON THE GYM FLOOR, AS RECOMMENDED BY LONSEAL. ENDURA PAINT SHALL BE APPLIED BY A CERTIFIED LINE PAINTER. NAMES OF CERTIFIED PAINTERS TO BE PROVIDED BY ENDURA LOCAL MANUFACTURER'S REPRESENTATIVE.
 - GAME LINES ARE SCHEMATIC. THE GYM 1420A ROOM SIZE IS NOT LARGE ENOUGH TO SUPPORT A REGULATION BASKETBALL COURT; THEREFORE, THE GAME LINES ARE CLOSER IN DISTANCE.
 - REVEAL SHALL BE INSTALLED WITH TAMPER PROOF SCREWS. APPLIED TO CORRIDORS AND COURT ROOM WALLS.
 - CG-1 SHALL BE INSTALLED WITH SELF-ADHESIVE TAPE.
 - PW-2 SHALL BE INSTALLED WITH TAMPER PROOF SCREWS.
 - ALL PAINT SHALL BE PAINTED ONE PRIMER AND TWO COATS OF PAINT.
 - ALL SHEETROCK SHALL BE LEVEL A FINISH.
 - ALL EXISTING PAINTED WALLS IN STAIRS AND OTHER LOCATIONS TO BE PROPERLY PREPARED BEFORE RECEIVING NEW PAINT PRODUCTS. ALL ATTACHMENTS INCLUDING SIGNS, BOARDS, WALLCOVERING, WALL PROTECTION, WALL PANELING, OUTLET/DATA/LIGHT SWITCH COVERS TO BE REMOVED PRIOR TO PAINTING. CRACKS TO BE FILLED WITH JOINT COMPOUND AND SANDED SMOOTH - THIS PROCEDURE TO BE REPEATED UNTIL DESIRED SMOOTHNESS IS ACHIEVED. SURROUNDING WALLS TO BE SANDED SMOOTH AND SPACKLE AS WELL BEFORE RECEIVING PRIME COAT. REFER TO SPEC SECTION 099101. AREAS TO INCLUDE, BUT NOT LIMITED TO: ELEVATOR LOBBY 000B, EX. ELEVATOR LOBBY, VESTIBULE 110B/CORRIDOR 110B-1, LOBBY 251B/CORRIDOR 251B-1, CORRIDOR 007B.
 - WM-1 SHALL BE INSTALLED WITH TAMPER PROOF SCREWS.
 - ALL EXISTING DOORS AND DOOR FRAMES TO BE CLEANED, EVENLY SANDED DULL AND PAINTED. REMOVE ALL HARDWARE PRIOR TO PAINTING AND REINSTALL.
 - ALL STEEL IN EXISTING STAIRWELL TO BE GRIT BLASTED, PRIMED AND PAINTED (2 COATS). REMOVE RUST PRIOR TO APPLYING PRIMER. SEE MANUFACTURER'S RECOMMENDATION FOR INSTALLATION.
 - FOR METAL STAIR FLOOR APPLICATION, PRIME WITH SHERWIN WILLIAMS MACROPROXY 646. FOR CONCRETE STAIR APPLICATION, PRIME WITH SHERWIN WILLIAMS GENERAL POLYMER 3579 STANDARD PRIMER. SEE MANUFACTURER'S RECOMMENDATION FOR INSTALLATION.
 - FOR EP-2 INSTALLATION, NON-SKID ADDITIVES TO BE BROADCAST IN GENERAL POLYMER 3745, THEN APPLY POLYURETHANE 4409 TOP COAT. SEE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.



REVISED DRAWING 10/12/2015

NEW YORK STATE OF OPPORTUNITY. Office of General Services. DESIGN & CONSTRUCTION

CONSULTANTS: RBSD | STV 100 Years. A Joint Venture. 225 Park Avenue South, New York, New York 10003

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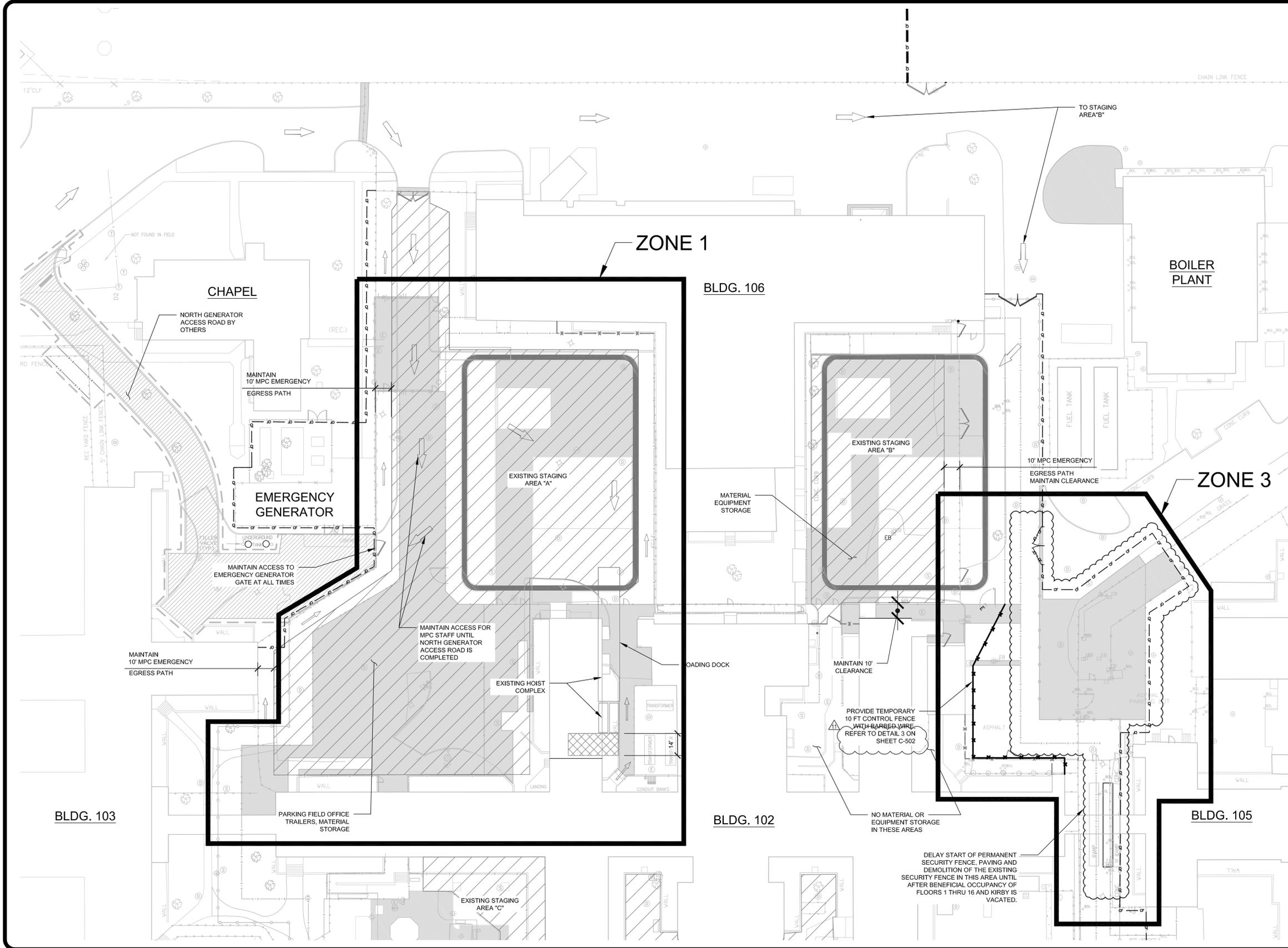
CONTRACT: CONSTRUCTION. TITLE: MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION. LOCATION: MANHATTAN PSYCHIATRIC CENTER, BUILDING NO. 102, 600 EAST 125TH STREET WARDS ISLAND, NY10035. CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
△	10-12-2015	ADDENDUM # 11
△	10-05-2015	ADDENDUM # 9
△	09-24-2015	ADDENDUM # 8
△	09-03-2015	ADDENDUM # 6
△	08-12-2015	ADDENDUM # 5
△	6-15-2015	BID DOCUMENT

PROJECT NUMBER: 44578
DESIGNED BY: MAK / WW
DRAWN BY: LR / LM / WW / JS / JM / DF / YB / YK
FIELD CHECK: N/A
APPROVED: WS / MAK / LF

SHEET TITLE: FINISH SCHEDULE. BUILDING NUMBER: 102. DRAWING NUMBER: AF-115. SHEET

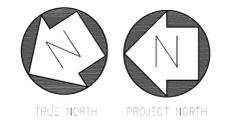
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- ### STAGING SHEET NOTES
- REFER TO THE OVERALL CONSTRUCTION STAGING PLAN SHEET CS-101 FOR GENERAL SHEET NOTES.
 - ZONE 1 & 3 SITEWORK IS SHOWN ON THIS SHEET. REFER TO CS-103 FOR ZONE 2 DETAILS.
 - REFER TO SPECIFICATION SECTION 011000 - SUMMARY OF THE WORK FOR A DETAILED DESCRIPTION OF PHASING SITEWORK.
 - SITWORK ZONE 1 CONSISTS OF THE NORTH SECURITY FENCE, REC YARD A, AND THE ADMISSIONS ENTRANCE. PRIOR TO WORK ADVANCING IN THIS AREA, THE "NORTH GENERATOR ACCESS ROADWAY" MUST BE COMPLETED BY OTHERS.
 - SITWORK ZONE 3 CONSISTS OF THE SOUTH-EAST SECURITY FENCE. THE FINAL SECTION OF THIS FENCE CANNOT BE STARTED UNTIL AFTER BENEFICIAL USE OF BUILDING 102 FLOORS 1 THRU 16 IS COMPLETED. PROVIDE TEMPORARY SECURITY FENCE AS SHOWN ON THIS SHEET.

LEGEND AND ABBREVIATIONS

- EXISTING STAGING AREA
- DIRECTIONAL ARROW
- EXISTING CHAIN LINK FENCE
- EXISTING SINGLE CONSTRUCTION GATE
- EXISTING DOUBLE CONSTRUCTION GATE
- NEW CONSTRUCTION FENCE
- NEW SINGLE SWING CONSTRUCTION GATE
- NEW DOUBLE SWING CONSTRUCTION GATE
- TEMPORARY CHAIN LINK FENCE WITH BARBED WIRE
- TYP. TYPICAL



1"=30' 30' 0 30'

REVISED DRAWING 10/12/2015

NEW YORK STATE OF OPPORTUNITY
Office of General Services
 DESIGN & CONSTRUCTION

CONSULTANTS:
RBSD | **STV** 100 years
 ARCHITECTS P.C. | ARCHITECTS
 A Joint Venture
 225 Park Avenue South
 New York, New York 10003

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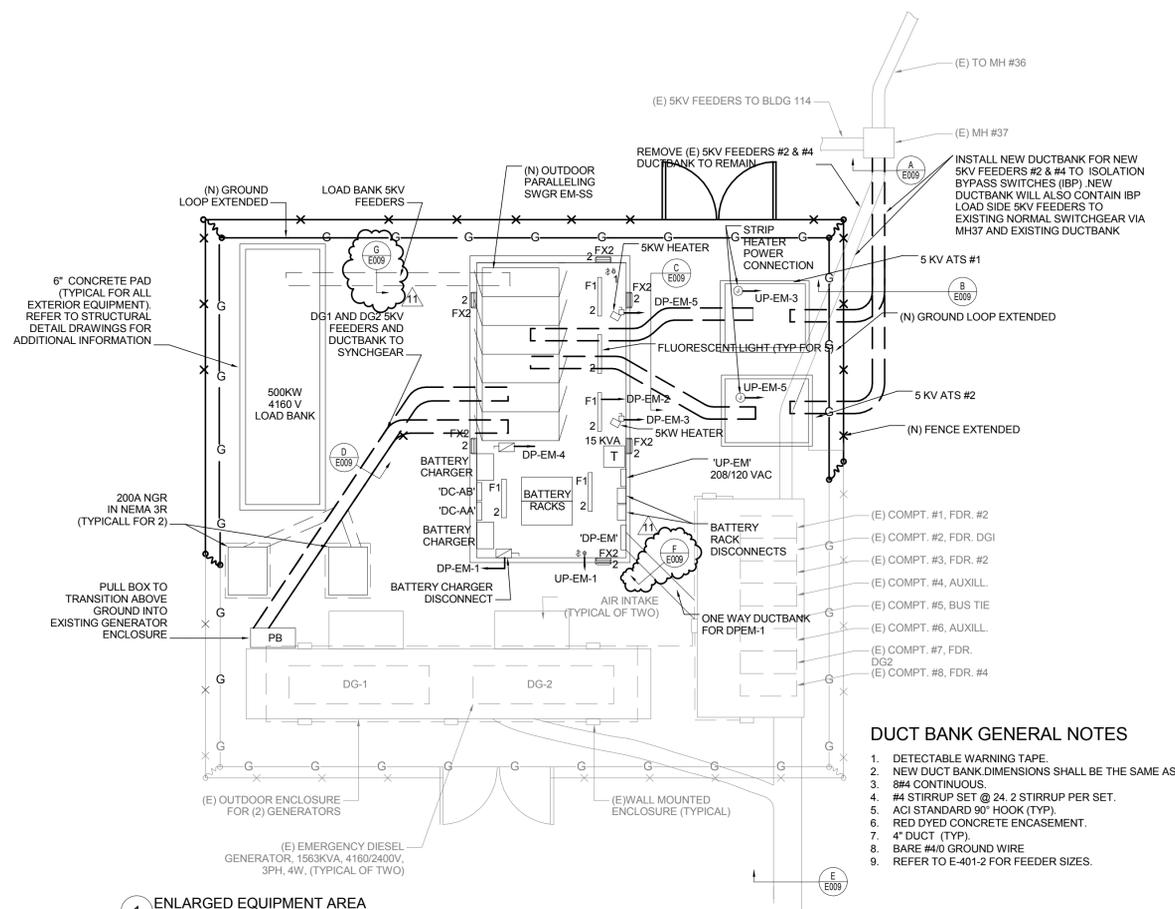
CONTRACT: CONSTRUCTION
 TITLE: MAJOR BUILDING RENOVATION FOR THE MANHATTAN FORENSIC RELOCATION
 LOCATION: NYS OFFICE OF MENTAL HEALTH MANHATTAN PSYCHIATRIC CENTER WARDS ISLAND, NY
 CLIENT: NYS OFFICE OF MENTAL HEALTH

PROJECT NUMBER:	44578	
DESIGNED BY:	JM	
DRAWN BY:	MG	
FIELD CHECK:	NA	
APPROVED:	NA	
MARK	DATE	DESCRIPTION
	10/12/2015	ADDENDUM 8
	6-15-2015	BID DOCUMENT

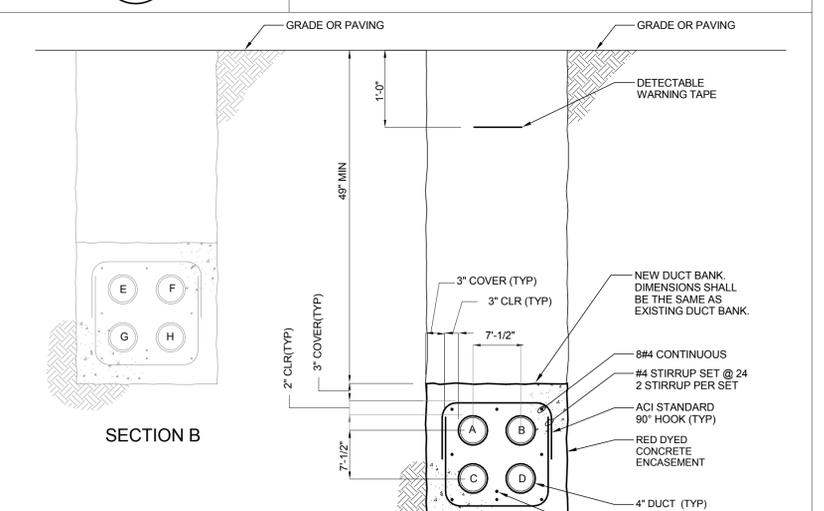
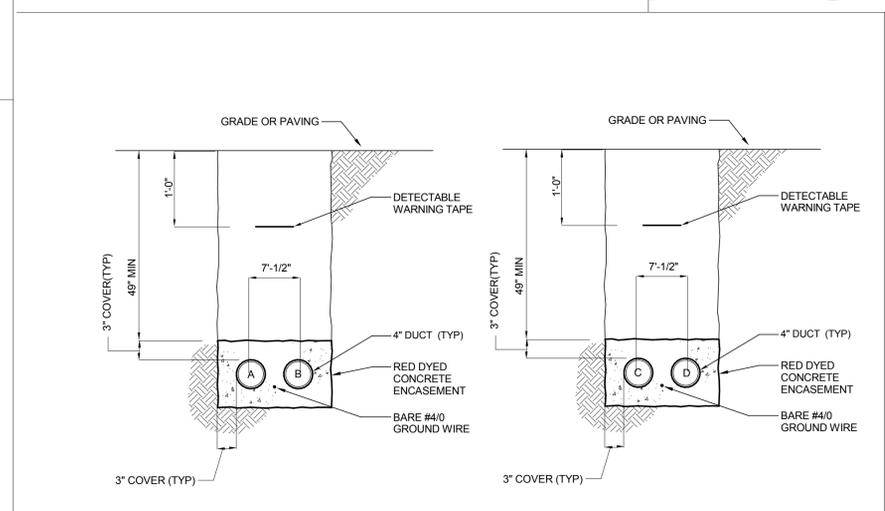
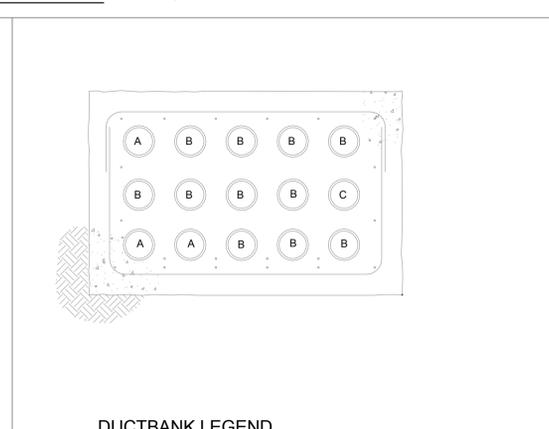
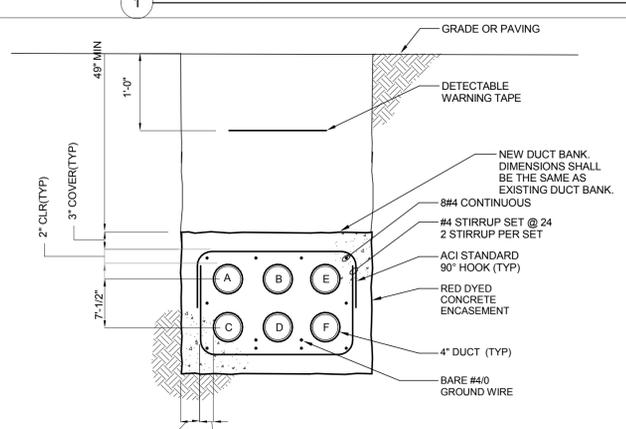
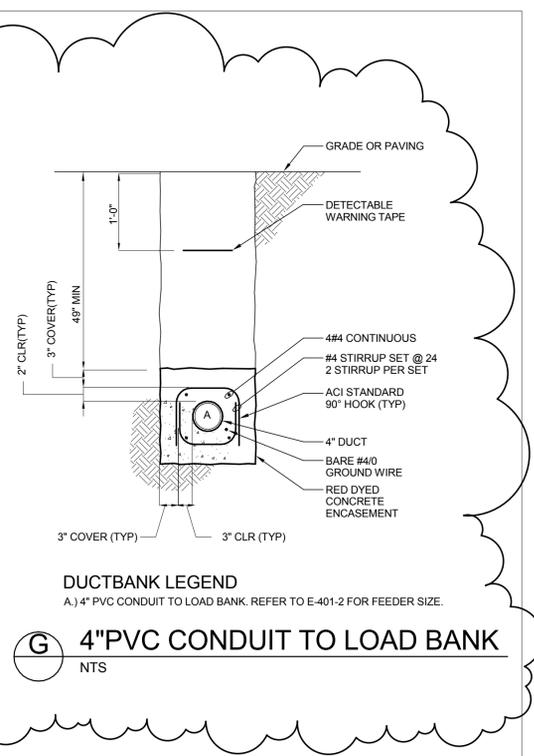
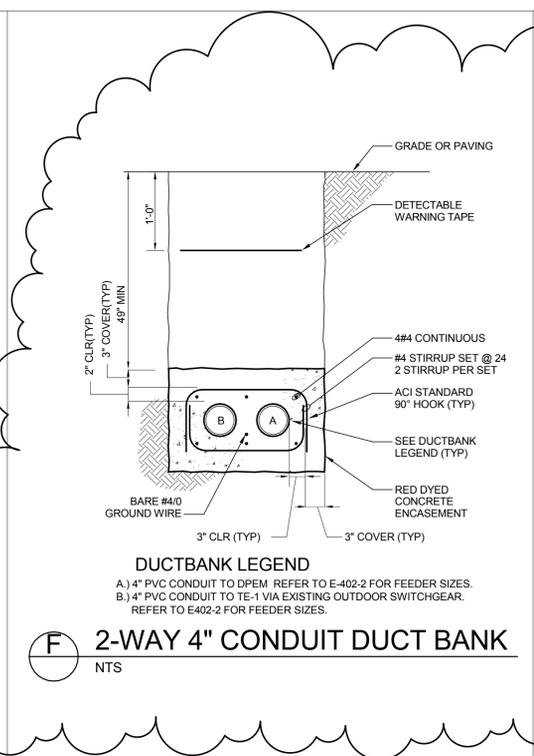
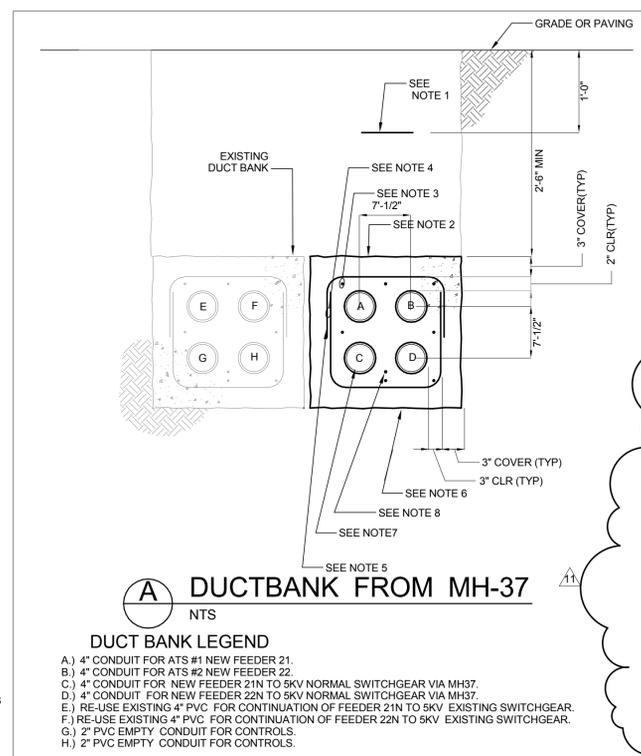
SHEET TITLE:
CONSTRUCTION STAGING PLAN ZONES 1 & 3

BUILDING NUMBER: DRAWING NUMBER:
 CS-102

SHEET OF



- DUCT BANK GENERAL NOTES**
1. DETECTABLE WARNING TAPE.
 2. NEW DUCT BANK DIMENSIONS SHALL BE THE SAME AS EXISTING DUCT BANK.
 3. #4 CONTINUOUS.
 4. #4 STIRRUP SET @ 24. 2 STIRRUP PER SET.
 5. ACI STANDARD 90° HOOK (TYP).
 6. RED DYED CONCRETE ENCASUREMENT.
 7. 4" DUCT (TYP).
 8. BARE #4/0 GROUND WIRE.
 9. REFER TO E-401-2 FOR FEEDER SIZES.



REVISED DRAWING 10/12/2015

NEW YORK STATE OF OPPORTUNITY.
Office of General Services
 DESIGN & CONSTRUCTION

CONSULTANTS:
RBSD | STV 100 Years
 ARCHITECTS PC
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 225 Park Avenue South
 New York, New York 10003

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CONTRACT:
 CONSTRUCTION
 TITLE:
 MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION
 LOCATION:
 MANHATTAN PSYCHIATRIC CENTER, BUILDING No. 102
 600 EAST 125TH STREET WARDS ISLAND, NY 10035
 CLIENT:
 NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION	PROJECT NUMBER:	44578
11	10/12/2015	ADDENDUM 11	DESIGNED BY:	NP
	6-15-2015	BID DOCUMENT	DRAWN BY:	NP
			FIELD CHECK:	NA
			APPROVED:	FT

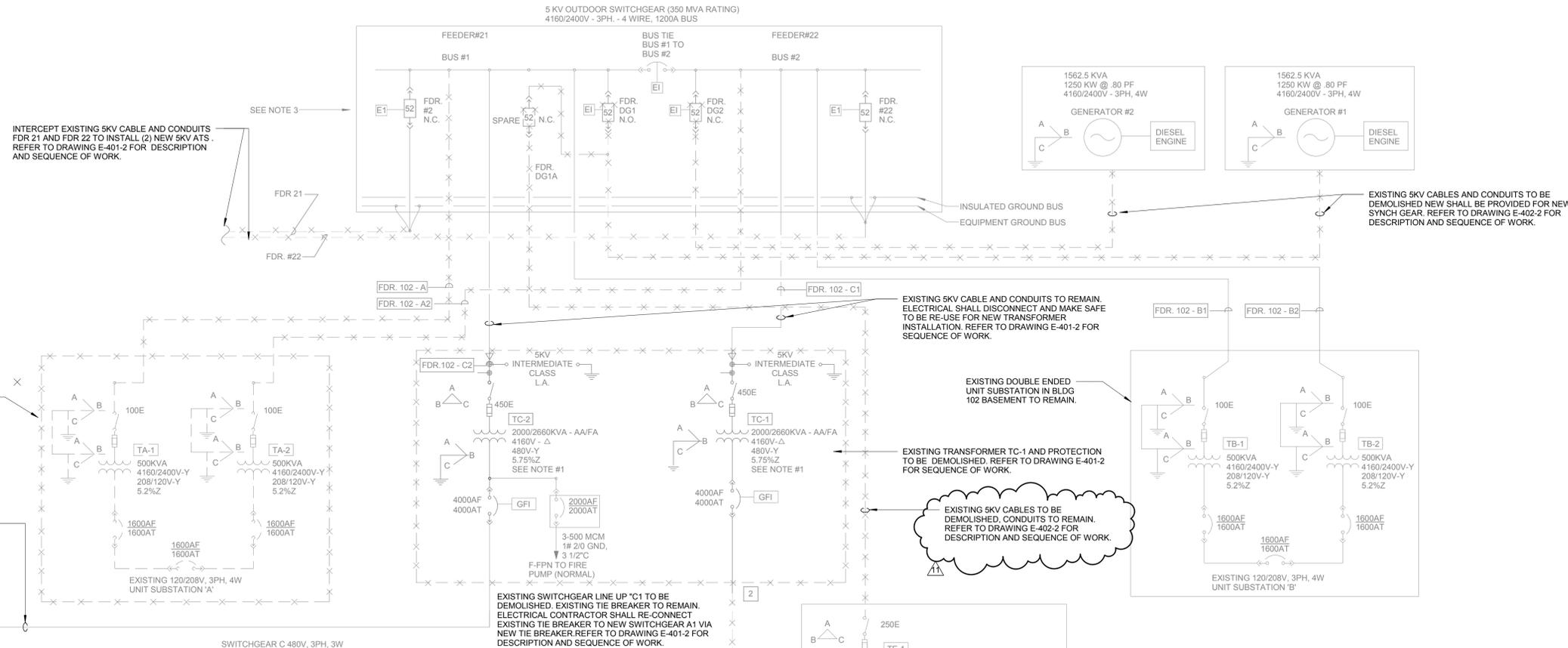
SHEET TITLE:
ENLARGED EQUIPMENT AREA

BUILDING NUMBER:
102

DRAWING NUMBER:
E-009

SHEET

10/9/2015 2:28:11 PM



EXISTING DOUBLE ENDED UNIT SUBSTATION IN BLDG 102 BASEMENT TO BE DEMOLISHED.

EXISTING 480V CABLE AND CONDUITS TO REMAIN. ELECTRICAL SHALL DISCONNECT AND MAKE SAFE TO BE RE-USE FOR NEW TRANSFORMER INSTALLATION. REFER TO DRAWING E-401-2 FOR SEQUENCE OF WORK.

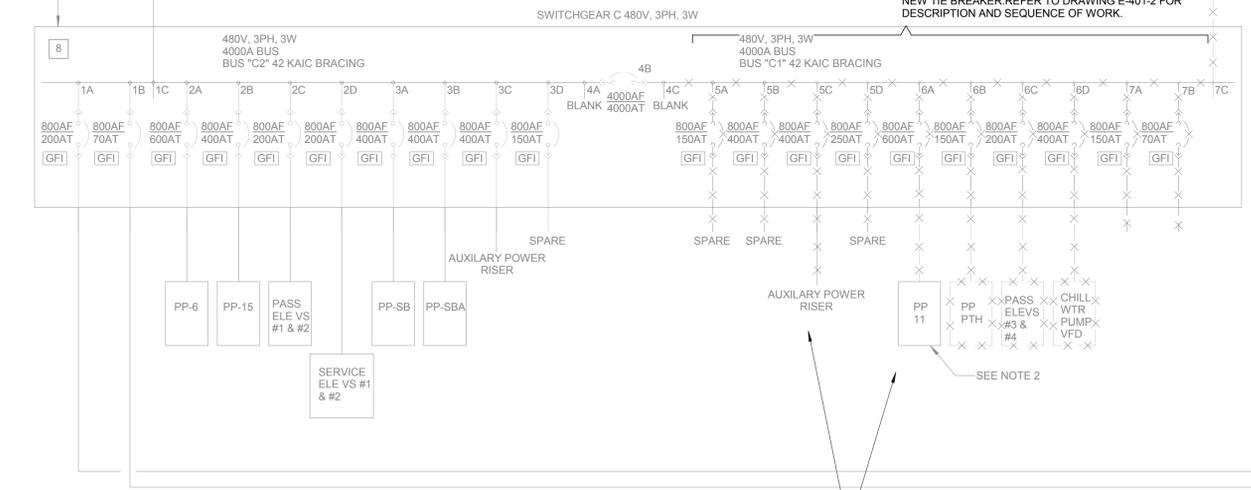
EXISTING SWITCHGEAR LINE UP 'C'1 TO BE DEMOLISHED. EXISTING THE BREAKER TO REMAIN. ELECTRICAL CONTRACTOR SHALL RE-CONNECT EXISTING THE BREAKER TO NEW SWITCHGEAR A1 VIA NEW TIE BREAKER REFER TO DRAWING E-401-2 FOR DESCRIPTION AND SEQUENCE OF WORK.

EXISTING SKV CABLES TO BE DEMOLISHED. CONDUITS TO REMAIN. REFER TO DRAWING E-402-2 FOR DESCRIPTION AND SEQUENCE OF WORK.

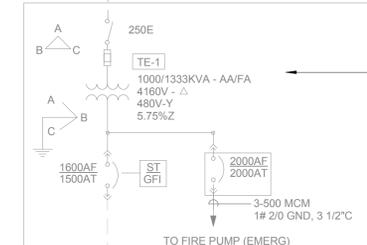
EXISTING TRANSFORMER TC-1 AND PROTECTION TO BE DEMOLISHED. REFER TO DRAWING E-401-2 FOR SEQUENCE OF WORK.

EXISTING 5KV CABLE AND CONDUITS TO REMAIN. ELECTRICAL SHALL DISCONNECT AND MAKE SAFE TO BE RE-USE FOR NEW TRANSFORMER INSTALLATION. REFER TO DRAWING E-401-2 FOR SEQUENCE OF WORK.

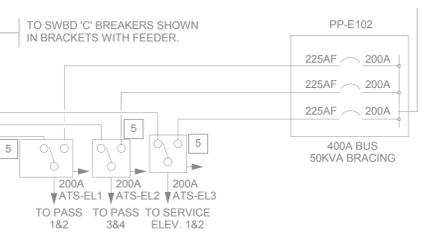
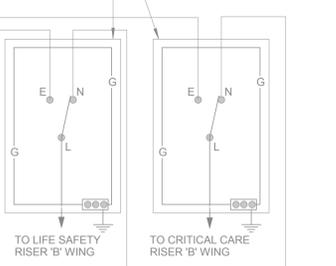
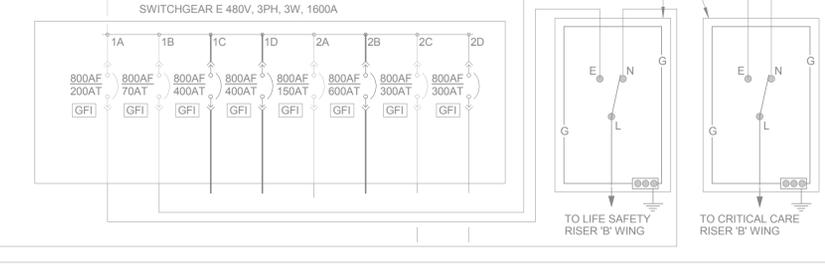
EXISTING SKV CABLES AND CONDUITS TO BE DEMOLISHED NEW SHALL BE PROVIDED FOR NEW SYNCH GEAR. REFER TO DRAWING E-402-2 FOR DESCRIPTION AND SEQUENCE OF WORK.



EXISTING LOADS TO REMAIN. ELECTRICAL CONTRACTOR SHALL RELOCATE TO NEW SWITCHGEAR A1. REFER TO DRAWING E-401-2 FOR SEQUENCE OF WORK.



4160 - 480/277V OUTDOOR SUBSTATION LOCATED IN EAST SIDE COURTYARD NORTH OF CENTER SECTION BLDG. 102 TO REMAIN.



5KV FEEDER SCHEDULE						
CONDUIT No.	DESIGNATION	CONDUIT SIZE	NUMBER	WIRE AND CABLE SIZE & INSULATION CLASS	FROM	REMARKS TO
5-1	FEEDER 102-A1	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND	INDOOR SUBSTATION A-1	INDOOR SUBSTATION A-1
5-2	FEEDER 102-A2	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND	INDOOR SUBSTATION A-2	INDOOR SUBSTATION A-2
5-7	SPARE	4"		EMPTY		OUTDOOR SUBSTATION C-1
5-5	FEEDER 102-C1	4"	3	500 MCM, 5KV #4/0 GND	OUTDOOR SUBSTATION C-1	OUTDOOR SUBSTATION C-1
5-3	FEEDER 102-B1	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND	INDOOR SUBSTATION B-1	INDOOR SUBSTATION B-1
5-4	FEEDER 102-B2	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND	INDOOR SUBSTATION B-2	INDOOR SUBSTATION B-2
5-6	FEEDER 102-C2	4"	3	500 MCM, 5KV #4/0 GND	OUTDOOR SUBSTATION C-2	OUTDOOR SUBSTATION C-2
5-9, 5-11	SPARE	4"		EMPTY		COL. LINE K-18
5-10, 5-12	SPARE	4"		EMPTY		COL. LINE K-18
5-8	FEEDER 102-E1	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND	OUTDOOR SUBSTATION E-1	OUTDOOR SUBSTATION E-1

LEGEND	
—	EXISTING TO REMAIN
—	NEW
× - × - ×	TO BE DEMOLISHED

- NOTES:
- DEMOLISH EXISTING 2000KVA TRANSFORMERS AND LOAD INTERRUPTER SWITCH AND REPLACE WITH NEW TRANSFORMERS AS INDICATED. PHASE INSTALLATION SUCH THAT THE FACILITY WILL EXPERIENCE NO DOWN TIME.
 - DISCONNECT PANEL "PP11" AND AUXILIARY POWER RISER FROM SWITCHGEAR "C" AND CONNECT TO NEW SWITCHGEAR "A1".
 - PROVIDE NEW CTS AND ADJUST RELAYING AS REQUIRED TO ACCOMMODATE NEW 2500KVA SUBSTATION.

REVISED DRAWING 10/12/2015

NEW YORK STATE OF OPPORTUNITY. **Office of General Services**
DESIGN & CONSTRUCTION

CONSULTANTS:
RBSD | **STV** 100 Years
A Joint Venture
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New York, New York 10003

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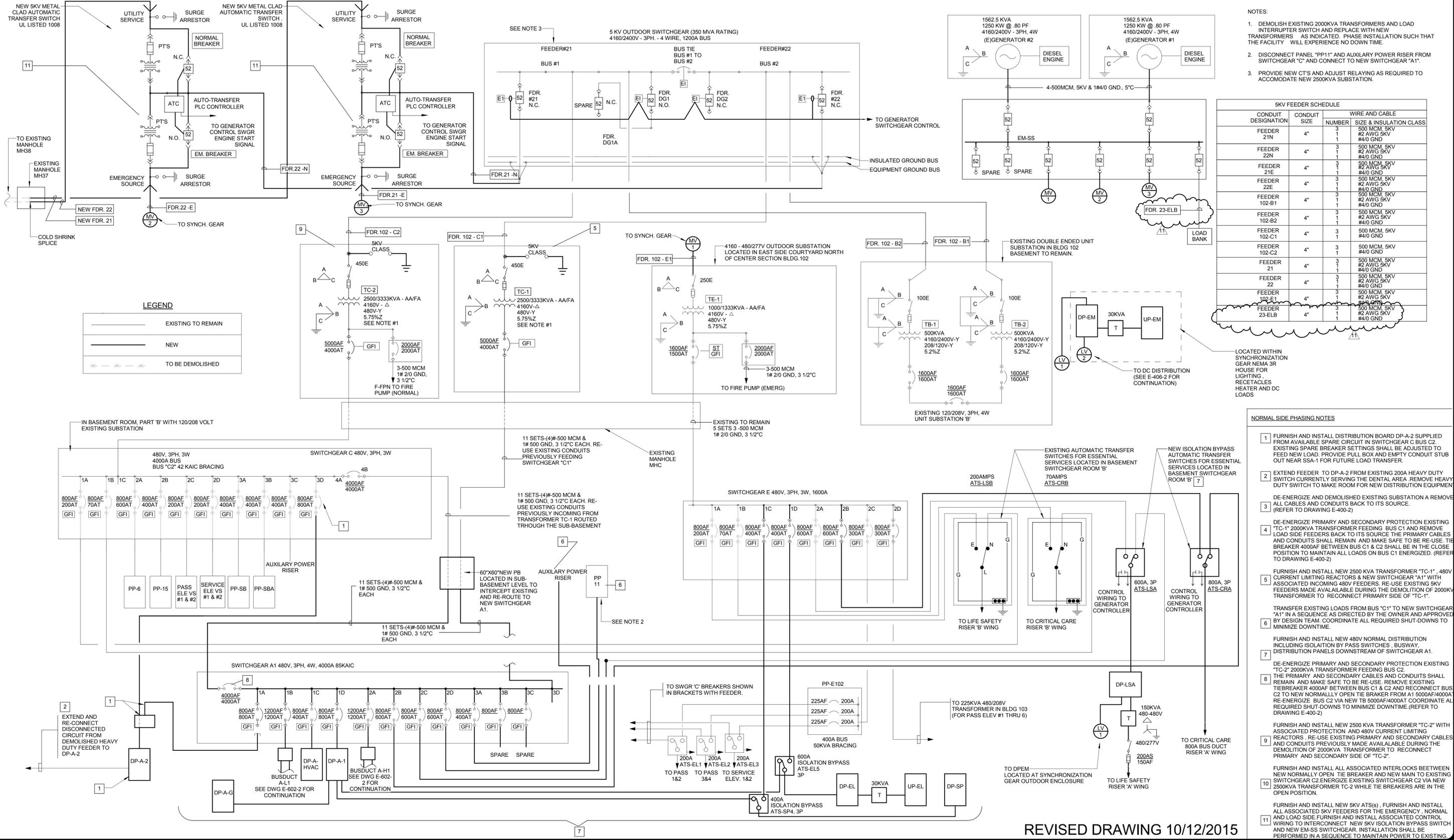
CONTRACT:
CONSTRUCTION
TITLE:
MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION
LOCATION:
MANHATTAN PSYCHIATRIC CENTER, BUILDING No. 102
600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT:
NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION	PROJECT NUMBER:	44578
			DESIGNED BY:	JN
			DRAWN BY:	SA
			FIELD CHECK:	NA
			APPROVED:	FT

SHEET TITLE:
ELECTRICAL PARTIAL DEMOLITION ONE LINE DIAGRAM

BUILDING NUMBER: 102
DRAWING NUMBER: E-400-2
SHEET

10/9/2015 2:28:45 PM



- NOTES:
- DEMOLISH EXISTING 2000KVA TRANSFORMERS AND LOAD INTERRUPTER SWITCH AND REPLACE WITH NEW TRANSFORMERS AS INDICATED. PHASE INSTALLATION SUCH THAT THE FACILITY WILL EXPERIENCE NO DOWNTIME.
 - DISCONNECT PANEL "PP11" AND AUXILIARY POWER RISER FROM SWITCHGEAR "C" AND CONNECT TO NEW SWITCHGEAR "A1".
 - PROVIDE NEW CT'S AND ADJUST RELAYING AS REQUIRED TO ACCOMMODATE NEW 2500KVA SUBSTATION.

5KV FEEDER SCHEDULE

CONDUIT DESIGNATION	CONDUIT SIZE	NUMBER	WIRE AND CABLE SIZE & INSULATION CLASS
FEEDER 21N	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 22N	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 21E	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 22E	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 102-B1	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 102-B2	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 102-C1	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 102-C2	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 21	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 22	4"	3	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 102-E1	4"	1	500 MCM, 5KV #2 AWG 5KV #4/0 GND
FEEDER 102-ELB	4"	1	500 MCM, 5KV #2 AWG 5KV #4/0 GND

LEGEND

	EXISTING TO REMAIN
	NEW
	TO BE DEMOLISHED

- NORMAL SIDE PHASING NOTES
- FURNISH AND INSTALL DISTRIBUTION BOARD DP-A-2 SUPPLIED FROM AVAILABLE SPARE CIRCUIT IN SWITCHGEAR C BUS C2. EXISTING SPARE BREAKER SETTINGS SHALL BE ADJUSTED TO FEED NEW LOAD. PROVIDE PULL BOX AND EMPTY CONDUIT STUB OUT NEAR SSA-1 FOR FUTURE LOAD TRANSFER.
 - EXTEND FEEDER TO DP-A-2 FROM EXISTING 200A HEAVY DUTY SWITCH CURRENTLY SERVING THE DENTAL AREA. REMOVE HEAVY DUTY SWITCH TO MAKE ROOM FOR NEW DISTRIBUTION EQUIPMENT.
 - DE-ENERGIZE AND DEMOLISHED EXISTING SUBSTATION A REMOVE ALL CABLES AND CONDUITS BACK TO ITS SOURCE. (REFER TO DRAWING E-400-2)
 - DE-ENERGIZE PRIMARY AND SECONDARY PROTECTION EXISTING "TC-1" 2000KVA TRANSFORMER FEEDING BUS C1 AND REMOVE LOAD SIDE FEEDERS BACK TO ITS SOURCE. THE PRIMARY CABLES AND CONDUITS SHALL REMAIN AND MAKE SAFE TO BE RE-USE. THE BREAKER 4000AF BETWEEN BUS C1 & C2 SHALL BE IN THE CLOSE POSITION TO MAINTAIN ALL LOADS ON BUS C1 ENERGIZED. (REFER TO DRAWING E-400-2)
 - FURNISH AND INSTALL NEW 2500 KVA TRANSFORMER "TC-1" 480V CURRENT LIMITING REACTORS & NEW SWITCHGEAR "A1" WITH ASSOCIATED INCOMING 480V FEEDERS. RE-USE EXISTING 5KV FEEDERS MADE AVAILABLE DURING THE DEMOLITION OF 2000KV TRANSFORMER TO RECONNECT PRIMARY SIDE OF "TC-1".
TRANSFER EXISTING LOADS FROM BUS "C1" TO NEW SWITCHGEAR "A1" IN A SEQUENCE AS DIRECTED BY THE OWNER AND APPROVED BY DESIGN TEAM. COORDINATE ALL REQUIRED SHUT-DOWNS TO MINIMIZE DOWNTIME.
 - FURNISH AND INSTALL NEW 480V NORMAL DISTRIBUTION INCLUDING ISOLATION BY PASS SWITCHES, BUSWAY, DISTRIBUTION PANELS DOWNSTREAM OF SWITCHGEAR A1.
 - DE-ENERGIZE PRIMARY AND SECONDARY PROTECTION EXISTING "TC-2" 2000KVA TRANSFORMER FEEDING BUS C2.
THE PRIMARY AND SECONDARY CABLES AND CONDUITS SHALL REMAIN AND MAKE SAFE TO BE RE-USE. REMOVE EXISTING TIEBREAKER 4000AF BETWEEN BUS C1 & C2 AND RECONNECT BUS C2 TO NEW NORMALLY OPEN TIE BREAKER FROM A1 5000AF/4000AF. DE-ENERGIZE BUS C2 VIA NEW TB 5000AF/4000AF COORDINATE ALL REQUIRED SHUT-DOWNS TO MINIMIZE DOWNTIME. (REFER TO DRAWING E-400-2)
 - FURNISH AND INSTALL NEW 2500 KVA TRANSFORMER "TC-2" WITH ASSOCIATED PROTECTION AND 480V CURRENT LIMITING REACTORS. RE-USE EXISTING PRIMARY AND SECONDARY CABLES AND CONDUITS PREVIOUSLY MADE AVAILABLE DURING THE DEMOLITION OF 2000KVA TRANSFORMER TO RECONNECT PRIMARY AND SECONDARY SIDE OF "TC-2".
 - FURNISH AND INSTALL ALL ASSOCIATED INTERLOCKS BETWEEN NEW NORMALLY OPEN TIE BREAKER AND NEW MAIN TO EXISTING SWITCHGEAR C2. ENERGIZE EXISTING SWITCHGEAR C2 VIA NEW 2500KVA TRANSFORMER TC-2 WHILE THE BREAKERS ARE IN THE OPEN POSITION.
 - FURNISH AND INSTALL NEW 5KV AT(S). FURNISH AND INSTALL ALL ASSOCIATED 5KV FEEDERS FOR THE EMERGENCY, NORMAL AND LOAD SIDE. FURNISH AND INSTALL ASSOCIATED CONTROL WIRING TO INTERCONNECT NEW 5KV ISOLATION BYPASS SWITCH AND NEW EM-SS SWITCHGEAR. INSTALLATION SHALL BE PERFORMED IN A SEQUENCE TO MAINTAIN POWER TO EXISTING

REVISED DRAWING 10/12/2015

NEW YORK STATE OF OPPORTUNITY. **Office of General Services**
DESIGN & CONSTRUCTION

CONSULTANTS:
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CONTRACT:
CONSTRUCTION
TITLE:
MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION
LOCATION:
MANHATTAN PSYCHIATRIC CENTER, BUILDING No. 102
600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT:
NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION	APPROVED:
11	10/12/2015	ADDENDUM 11	
9	10/05/2015	ADDENDUM 9	
	6-15-2015	BID DOCUMENT	

PROJECT NUMBER: 44578
DESIGNED BY: NP
DRAWN BY: NP
FIELD CHECK: NA
APPROVED: FT

SHEET TITLE:
ELECTRICAL PARTIAL ONE LINE DIAGRAM

BUILDING NUMBER: 102
DRAWING NUMBER: E-401-2
SHEET

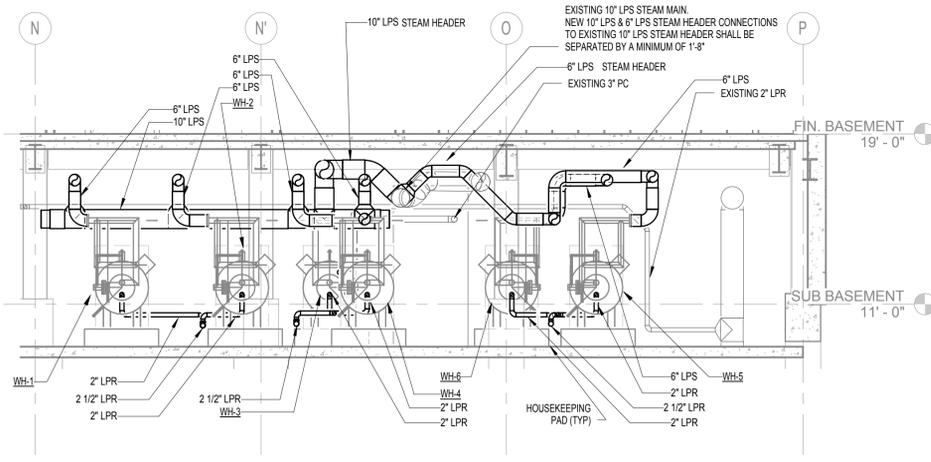
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GENERAL SHEET NOTES

- FOR LEGEND AND ABBREVIATIONS REFER TO SHEET M-001 AND M-002
- COIL PIPING VALVE ASSEMBLIES SHALL BE LOCATED SUCH THAT VALVE ASSEMBLIES DO NOT INTERFERE WITH THE ACCESS SPACE FOR COIL PULL
- ALL STEAM BRANCH CONNECTIONS SHALL CONNECT TO THE TOP OF STEAM MAINS (UPFLOW), PITCH LPS STEAM PIPING DOWNWARD IN DIRECTION OF FLOW.
- ALL CONDENSATE BRANCH CONNECTIONS SHALL CONNECT TO THE TOP OF CONDENSATE MAINS (DOWNFLOW), PITCH LPS CONDENSATE PIPING DOWNWARD IN DIRECTION OF FLOW.

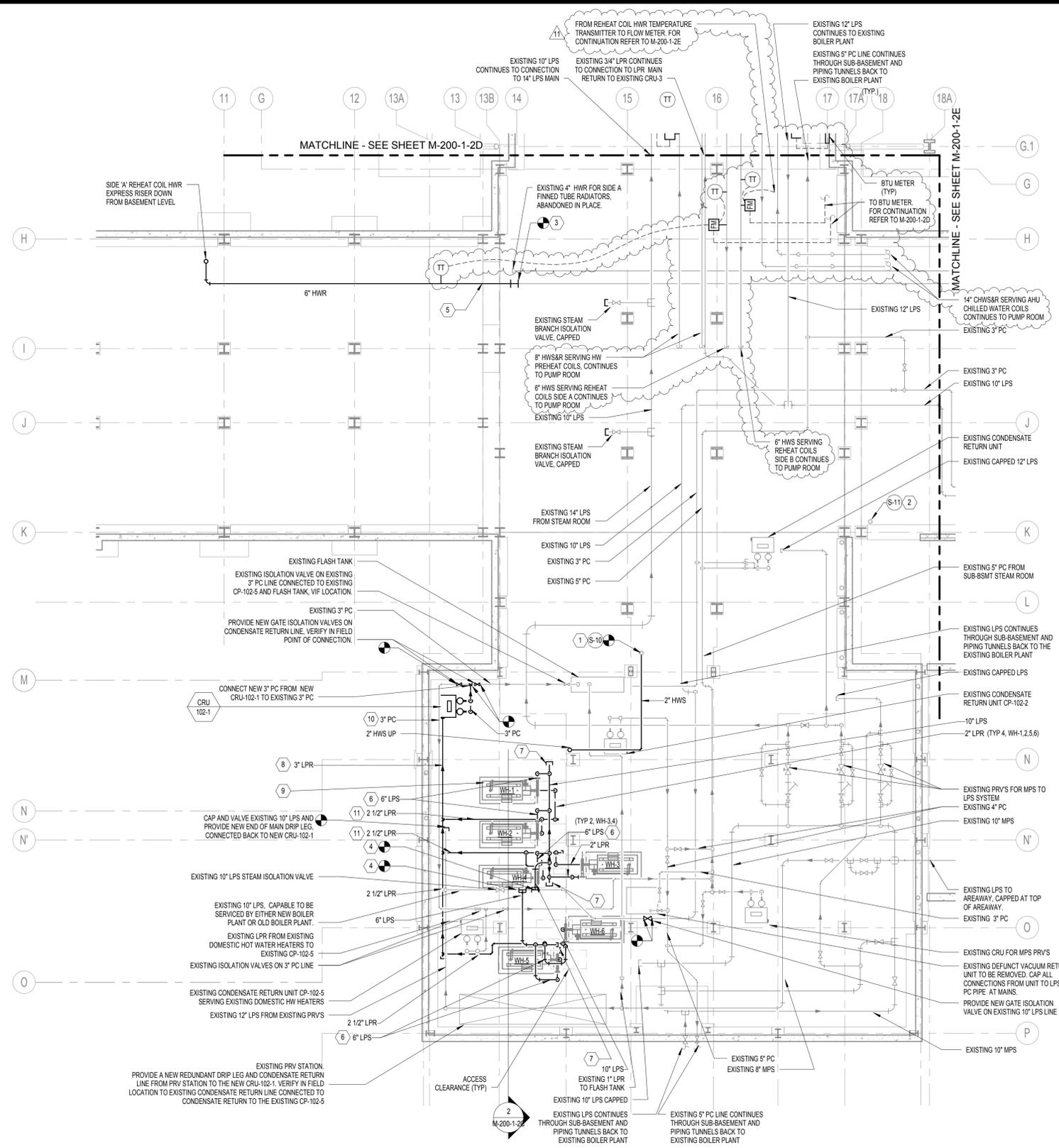
KEY NOTES

- CONNECT TO EXISTING HOT WATER PIPING FOR SIDE B RADIATORS. PROVIDE NEW CONNECTIONS TO HW PIPING & RISERS FOR ALL BRANCHES THAT WERE CAPPED FOR NEW CONNECTION AND REROUTE EXISTING BRANCH PIPING AS NECESSARY TO COORDINATE WITH NEW WORK. PROVIDE NEW CIRCUIT BALANCING VALVE AND DRAIN VALVE WITH HOSE CONNECTION AT LOW POINT FOR EACH HWS RISER. REFER TO MD2-099-2, MD2-100-2, AND MD2-101-2 FOR DEMOLITION WORK. REFER TO M-619-2 FOR DIAGRAM.
- EXISTING HOT WATER RISER TO REMAIN. REFER TO MD2-099-2, MD2-100-2, AND MD2-101-2 FOR DEMOLITION WORK. REFER TO M-619-2 FOR DIAGRAM.
- CONNECT NEW 6" HOT WATER RETURN FROM SIDE 'A' REHEAT COILS INTO EXISTING HOT WATER RETURN HEADER.
- PROVIDE NEW 6" LPS CONNECTION TO 10" EXISTING LPS MAIN TO SERVE NEW DOMESTIC HOT WATER HEATERS. COORDINATE PHASING WITH PLUMBING DRAWINGS.
- PROVIDE FLEXIBLE CONNECTION FOR PIPING RUNS MINIMUM 3" IN LENGTH, AT EACH POINT WHERE PIPE CROSSES A BUILDING EXPANSION JOINT. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXPANSION JOINT SIZES AND LOCATION.
- PROVIDE LPS TO DOMESTIC HOT WATER HEATER. SIZED AS SHOWN, AND PITCHED DOWN TOWARDS END OF MAIN. COORDINATE ROUTING WITH FINAL EQUIPMENT SUBMITTALS AND HEATER INSTALLATION. PROVIDE CONDENSATE RETURN PIPING AT 1/8" PER 10'-0" BACK TO NEAREST LPS MAIN OR CONDENSATE RECEIVER PUMP AS INDICATED ON THIS DRAWING. PROVIDE EQUIPMENT TRAP ASSEMBLY AND DRIP LEGS AS PER DETAIL 10 ON DWG M-855 AND DIAGRAM. INSULATE NEW LPS & CONDENSATE RETURN PIPE FROM POINT OF CONNECTION TO EXISTING (REFER TO SPECIFICATIONS). COORDINATE PHASING WITH PLUMBING DRAWINGS. THE STEAM DISTRIBUTION SHALL BE CAPABLE OF BEING SERVED BY ANY OF THE FACILITIES EXISTING STEAM PLANTS. COORDINATE ALL WORK, SHUT-DOWNS, OPERATIONS, AND SWITCHOVERS WITH THE CONSTRUCTION MANAGER AND THE FACILITY TO ENABLE CONTINUOUS STEAM SYSTEM SERVICE TO DOMESTIC HOT WATER HEATERS AND ALL OTHER SYSTEMS IN USE.
- PROVIDE END-OF-MAIN DRIP LEGS CONNECTED TO LPS BACK TO NEW CRU-102-1
- NEW 3" LPS ABOVE FLOOR, PITCHED BACK TO NEW CRU-102-1. COORDINATE LOW PRESSURE CONDENSATE RETURN HEIGHT WITH CRU-102-1 CONDENSATE INLET HEIGHT IN FIELD.
- (B) NEW DOMESTIC WATER HEATERS. SEE DIV 22. COORDINATE ALL MECHANICAL WORK AND PHASING IN THIS AREA WITH PLUMBING DRAWINGS. REFER TO PLUMBING DRAWINGS FOR LOCATION OF WATER HEATERS
- PUMPED CONDENSATE IS DESIGNED TO FLOW IN EITHER DIRECTION WITHIN CERTAIN PUMPED CONDENSATE LINES, DETERMINED BY THE FACILITIES OPERATIONS AND PROPER CONTROL AND ISOLATION OF THE STEAM DISTRIBUTION SYSTEM. COORDINATE WITH THE CONSTRUCTION MANAGER AND THE FACILITY.
- PROVIDE DIAMOND PLATE RAMP OVER LPS PIPES NEAR FLOOR.



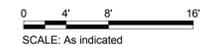
SUB-BASEMENT STEAM ROOM - SECTION 1

M-200-1-2C 1/4" = 1'-0"



1 BLDG 102 PIPING SUB-BASEMENT PLAN PART C
1/8" = 1'-0"

REVISED DRAWING 10/12/2015



10/9/2015 1:25:36 PM

NEW YORK STATE OF OPPORTUNITY.
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	10/12/2015	ADDENDUM 11	DESIGNED BY:	JN
	6-15-2015	BID DOCUMENT	DRAWN BY:	YD
			FIELD CHECK:	N/A
			APPROVED:	PL

SHEET TITLE:
HVAC SUB-BASEMENT FLOOR PIPING PLAN, PART C

BUILDING NUMBER:	DRAWING NUMBER:
102	M-200-1-2C
SHEET	

GENERAL SHEET NOTES

- FOR LEGEND AND ABBREVIATIONS REFER TO SHEET M-001 AND M-002
- COIL PIPING VALVE ASSEMBLIES SHALL BE LOCATED SUCH THAT VALVE ASSEMBLIES DO NOT INTERFERE WITH THE ACCESS SPACE FOR COIL PULL

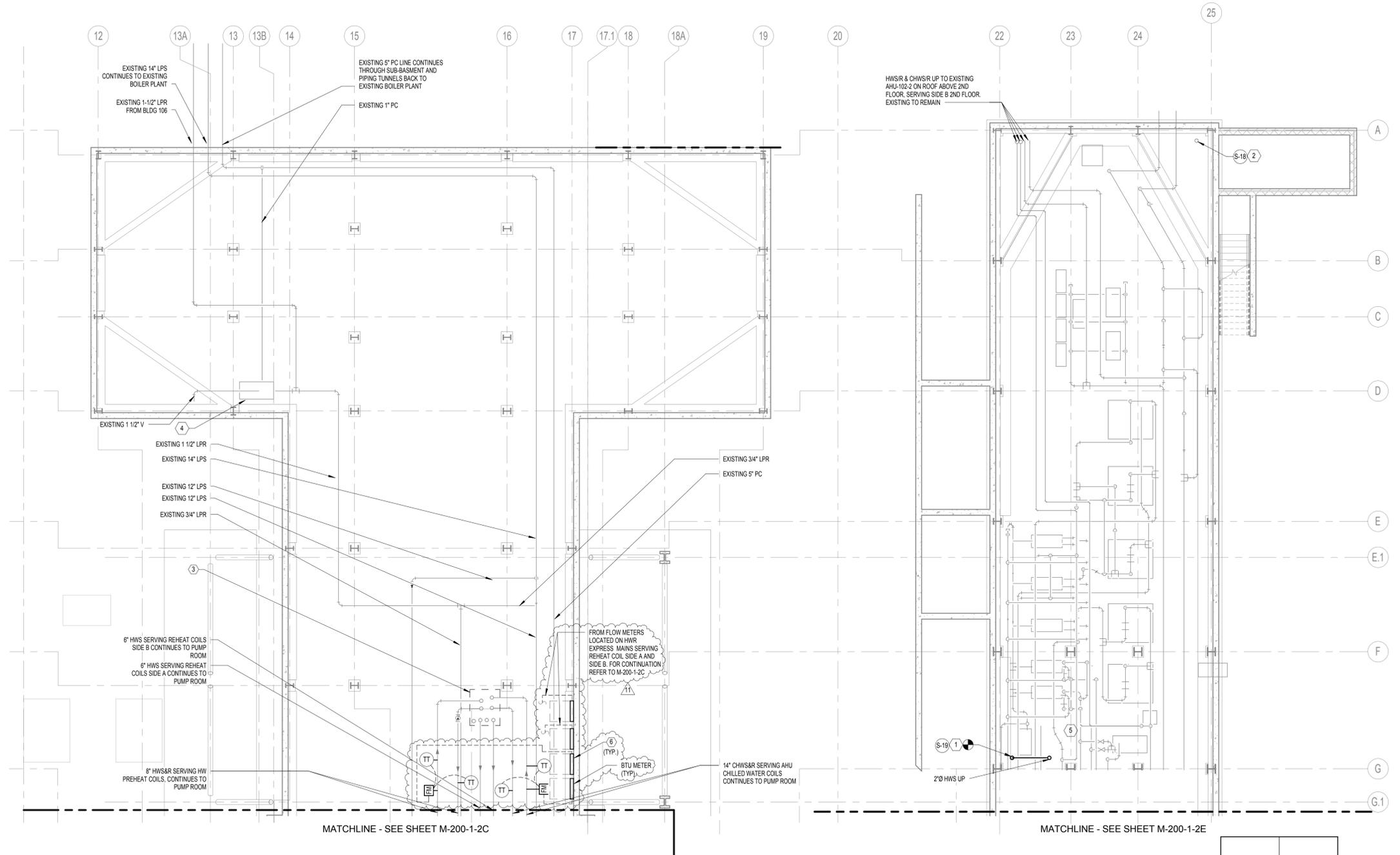
KEY NOTES

- CONNECT TO EXISTING HOT WATER PIPING FOR SIDE B RADIATORS. PROVIDE NEW CONNECTIONS TO HW PIPING & RISERS FOR ALL BRANCHES THAT WERE CHIPPED FOR NEW CONNECTION AND ROUTE EXISTING BRANCH PIPING AS NECESSARY TO COORDINATE WITH NEW WORK. PROVIDE NEW CIRCUIT BALANCING VALVE AND DRAIN VALVE WITH HOSE CONNECTION AT LOW POINT FOR EACH HWS RISER. REFER TO MD2-099-2, MD2-100-2, AND MD2-101-2 FOR DEMOLITION WORK. REFER TO M-619-2 FOR DIAGRAM.
- EXISTING HOT WATER RISER TO REMAIN. REFER TO MD2-099-2, MD2-100-2, AND MD2-101-2 FOR DEMOLITION WORK. REFER TO M-619-2 FOR DIAGRAM.
- EXISTING CHWS&R & HWS&R PIPES UP TO MER TOWER PIPE SHAFT SERVING AHU CHW COILS, AHU PREHEAT COILS, AND SIDE A & B REHEAT COILS.
- EXISTING CONDENSATE RETURN UNIT
- EXISTING PUMP ROOM HOUSING CHW PUMPS, HW PUMPS, HW HEAT EXCHANGERS, & OTHER EQUIPMENT SERVING EXISTING AND NEW WORK SYSTEMS. PROVIDE VERIFICATION, TESTING, & REBALANCING OF ALL SYSTEMS TIED INTO NEW WORK SYSTEMS. COORDINATE ALL SHUT-DOWNS AND START-UPS WITH THE FACILITY AND CONSTRUCTION MANAGER.
- BTU METER, ASSOCIATED FLOW METER AND TEMPERATURE TRANSMITTERS SHALL BE INSTALLED AS PER MANUFACTURE RECOMMENDATION WITH PARTICULAR ATTENTION TO UPSTREAM AND DOWNSTREAM STRAIGHT PIPE RUNS. REFER TO TABLE BELOW.

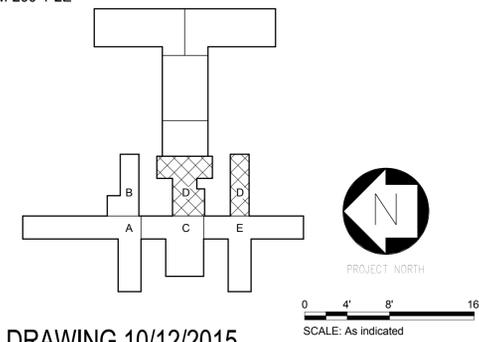
FLOW METER POSITION TABLE

SERVICE	PIPE SIZE	GPM	STRAIGHT PIPE RUN UPSTREAM OF FLOW METER *	STRAIGHT PIPE RUN DOWNSTREAM OF FLOW METER *
CHWS SERVING CHILLED WATER COILS BLDG #102 SIDE A AND B	14"	2800	11'-8"	5'-9"
HWS SERVING PREHEAT COILS BLDG #102 SIDE A AND B	8"	660	6'-8"	3'-4"
HWS SERVING REHEAT COILS BLDG #102 SIDE A	6"	510	5'-0"	2'-1"
HWS SERVING REHEAT COILS BLDG #102 SIDE B	6"	510	5'-0"	2'-1"

* APPROXIMATE DISTANCE. SHALL BE REVIEWED BY FLOW METER MANUFACTURE



1 BLDG 102 PIPING SUB-BASEMENT PLAN PART D
1/8" = 1'-0"



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NEW YORK STATE OF OPPORTUNITY.

Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

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ARCHITECTS PC

A Joint Venture

225 Park Avenue South
New York, New York 10003

CONTRACT: CONSTRUCTION

TITLE: MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION: MANHATTAN PSYCHIATRIC CENTER, BUILDING No. 102, 600 EAST 125TH STREET WARDS ISLAND, NY 10035

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION	PROJECT NUMBER:	44578
			DESIGNED BY:	IL
			DRAWN BY:	YD
			FIELD CHECK:	N/A
			APPROVED:	PL

SHEET TITLE: HVAC SUB-BASEMENT FLOOR PIPING PLAN, PART D

BUILDING NUMBER: 102

DRAWING NUMBER: M-200-1-2D

SHEET

LIST OF ABBREVIATIONS:	
AD	AREA DRAIN
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCH.	ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BVA	BALANCING VALVE ASSEMBLY
BWV	BACKWATER VALVE
CL OR CL	CENTER LINE
CLG	CEILING
CM	COFFEE MACHINE
CO	CLEAN OUT
CODP	CLEANOUT DECKPLATE
CONN.	CONNECTION
CONT.	CONTINUATION
CP	CIRCULATING PUMP
CU FT	CUBIC FEET
CW	COLD WATER
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DOUBLE CHECK VALVE
DF	DRINKING FOUNTAIN
DN	DOWN
DOM	DOMESTIC
DP	DRIP PAN
DR	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EC	ELECTRICAL CONTRACTOR
EEW	EMERGENCY EYE WASH
EL	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EWC	ELECTRIC WATER COOLER
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FFD	FUNNEL FLOOR DRAIN
FIRM	FIRM GAS LINE
FLSK	FLOOR SINK
FP	FIRE PROTECTION
FPS	FEET PER SECOND
FU	FIXTURE UNIT
FUD	FUNNEL DRAIN
GD	GUTTER DRAIN
GPF	GALLON PER FLUSH

LIST OF ABBREVIATIONS (CONT.):	
GPH	GALLON PER HOUR
GPM	GALLON PER MINUTE
GW	GREASY WASTE
HB	HOSE BIBB
HCV	HOUSE CONTROL VALVE
HCW	HIGH ZONE COLD WATER
HHW	HIGH ZONE HOT WATER
HHWR	HIGH ZONE HOT WATER RETURN
HP	HORSEPOWER
HW	HOT WATER
HWC	HOT WATER CIRCULATION PUMP
HWH	HOT WATER HEATER
HWR	HOT WATER RETURN
IM	ICE MACHINE
INV. EL.	INVERT ELEVATION
KW	KILOWATT
M	METER
LAV	LAVATORY
LM	LAUNDRY MACHINE
LCW	LOW ZONE COLD WATER
LHW	LOW ZONE HOT WATER
LHWR	LOW ZONE HOT WATER RETURN
MC	MECHANICAL CONTRACTOR
MGCV	MASTER GAS CONTROL VALVE
MAX	MAXIMUM
MCW	MIDDLE ZONE COLD WATER
MHW	MIDDLE ZONE HOT WATER
MHWR	MIDDLE ZONE HOT WATER RETURN
MIN	MINIMUM
MS	MOP SINK
MSB	MOP SERVICE BASIN
NFWH	NON-FREEZE WALL HYDRANT
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OVER FLOW DRAIN
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PLBG	PLUMBING
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RCV	RISER CONTROL VALVE
REQ'D	REQUIRED
RPM	REVOLUTION PER MINUTE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RV	RELIEF VENT
S OR SAN	SANITARY/SOIL
SC	SILLCOCK

LIST OF ABBREVIATIONS (CONT.):	
SH	SHOWER
SK	SINK
SP	SUMP PUMP
SQ FT	SQUARE FEET
ST	STORM
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
V	VENT
VIF	VERIFY IN FIELD
VOLT	VOLTAGE
VOV	VALVE ON VERTICAL
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WM	WATER METER
WSFU	WATER SUPPLY FIXTURE UNIT
WTS	WATERTIGHT PIPE SLEEVE
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR

WATER SUPPLY DATA: FIRE PUMP FLOW TEST REPORT	
LOCATION OF STATIC/RESIDUAL HYDRANT:	100 FEET FROM FIRE PUMP ROOM, HYDRANT B20
TEST DATE:	10-10-14
SIZE OF TESTED MAIN:	12"
STATIC PRESSURE:	45 PSI
RESIDUAL PRESSURE:	34 PSI
FLOW FROM FIRE PUMP:	1500 GPM

STORM WATER DRAINAGE DATA	
LOCATION:	ROOF AREAS: UPPER FLAT, UPPER SLOPED, AND LOW ROOFS
RAIN FALL INTENSITY & RAIN FALL RATE:	100-YEAR STORM, 1-HOUR RAINFALL, AT RAINFALL RATE OF 3 INCHES PER HOUR

APPLICABLE CODES, STANDARDS & GUIDELINES	
2010 NEW YORK STATE PLUMBING CODE (NYSPEC)	
2010 NEW YORK STATE BUILDING CODE (NYSBC)	
OMH DESIGN GUIDELINES 2013	
OGS DESIGN GUIDELINES 2009	

LIST OF SYMBOLS:	
	COLD WATER (CW)
	120° HOT WATER (HW)
	120° HOT WATER RETURN (HWR)
	SANITARY (SAN)
	STORM (ST)
	VENT (V)
	PIPING TO BE DEMOLISHED
	PIPE UP OR RISE
	PIPE DN OR DROP
	BRANCH TOP CONNECTION
	BRANCH BOTTOM CONNECTION
	CAP OUTLET
	CLEANOUT (CO)
	WALL CLEANOUT (WCO)
	FRESH AIR INLET (FAI)
	CLEANOUT DECK PLATE (CODP)
	BALANCING VALVE ASSEMBLY (BVA)
	BACKWATER VALVE
	SHUT OFF VALVE
	CHECK VALVE
	BALL VALVE
	THERMOSTATIC MIXING VALVE (TMV)
	PRESSURE REDUCING VALVE
	FLOOR DRAIN (FD)
	FUNNEL DRAIN (FUD)
	ROOF DRAIN (RD) / OVERFLOW ROOF DRAIN (OD)
	PRESSURE GAUGE
	THERMOMETER
	PUMP
	UNION
	WATER HAMMER ARRESTER
	SHOWER HEAD
	TRAP PRIMER
	STRAINER
	HOUSE TRAP
	FLOW ARROW
	DOMESTIC WATER RISER TAG
	STORM WATER RISER TAG
	SANITARY STACK TAG
	WATER METER
	DOUBLE CHECK VALVE BACKFLOW PREVENTER
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	KEYNOTE TAG

- GENERAL NOTES:**
- ALL WORK, TESTING AND INSPECTIONS SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE BUILDING AND PLUMBING CODES 2010.
 - ALL PIPING & EQUIPMENT SHALL BE SUPPORTED AS PER SECTION 308 OF THE PLUMBING CODE OF NEW YORK STATE TO SUIT FIELD CONDITIONS AND AS APPROVED BY THE OWNER'S REPRESENTATIVE. DETAILS OF ALL SUPPORTS SHALL BE SUBMITTED FOR APPROVAL.
 - OPENINGS FOR PENETRATIONS SHALL BE MADE BY CONTRACTOR. THESE OPENINGS SHALL INCLUDE OPENINGS REQUIRED IN SLABS AND WALLS. CORE DRILL HOLES IN FLOORS AND WALLS TO ACCOMMODATE PIPE SLEEVES FOR THE PASSAGE OF PIPES. EXACT LOCATION SHALL BE FIELD COORDINATED TO CLEAR EXISTING STEEL BEAMS OR REINFORCEMENT BARS. HOLE TOLERANCES SHALL MEET REQUIREMENTS OF SLEEVE MANUFACTURER. ALL OPENINGS SHALL MEET THE REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS & BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 - ALL PIPES PENETRATED THROUGH WALLS, FLOORS, AND UNDERGROUND FOUNDATION WALLS SHALL BE PROVIDED WITH REQUIRED OPENINGS, SLEEVES, FIRESTOPPING, SEALS AND PACKINGS.
 - PROVIDE PIPE SUPPORTS, RISER CLAMPS, HANGERS TO SUPPORT PIPES, EQUIPMENT & ACCESSORIES INDEPENDENTLY FROM THE STRUCTURE. PIPES SHALL BE SUPPORTED IN COMPLIANCE WITH NYS AND INTERNATIONAL PLUMBING CODES, MSS & UFC REQUIREMENTS. CONTRACTOR SHALL PROVIDE REQUIRED SUPPLEMENT STEEL TO ACCOMPLISH A SAFE AND SOUND INSTALLATION.
 - WHERE PIPES PASS THROUGH FINISHED SURFACES OF FLOORS, CEILINGS, ROOF AND WALLS, PROVIDE PIPE SLEEVES AND ESCUTCHEON PLATE/FRAMES. FIRE SEAL ANNULAR SPACES AT PENETRATIONS THROUGH FIRE RATED WALLS & FLOORS.
 - WHERE PIPES PASS THROUGH EXPOSED SURFACES, PROVIDE PIPE SLEEVES, SEAL AROUND OPENINGS AND FINISH THE OPENINGS. FIRE SEAL WHERE PIPES PASS THROUGH RATED CONSTRUCTION.
 - ALL SUPPLY WATER BRANCHES SHALL BE PROVIDED WITH BRANCH LINE SHUT OFF / ISOLATION VALVES WITH PROVISIONS FOR ACCESS.
 - PROVIDE SHUT OFF VALVES AND UNIONS/FLANGES AT BASE OF ALL RISERS, MAINS, ALL BRANCHES AND ALL CONNECTIONS TO PLUMBING FIXTURES, IN ORDER TO ISOLATE FOR MAINTENANCE PURPOSES.
 - PROVIDE ACCESS DOORS / PANELS FOR SERVICE ACCESS TO VALVES, AIR VENTS AND SUCH OTHER ACCESSORIES IN CONCEALED SPACES, FOR MAINTENANCE AND INSPECTION. PROVIDE RATED DEVICES IN FIRE RATED CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR QUANTIFYING THE NUMBER & TYPES OF ACCESS PANELS REQUIRED & COORDINATE WITH ARCHITECT ON ALL REQUIRED LOCATIONS.
 - PROVIDE DRAIN VALVES WITH HOSE THREADS AT ALL LOW POINTS OF PIPING AND TO DRAIN ALL EQUIPMENTS AND WATER LINES.
 - PROVIDE AIR VENTS AT ALL HIGH POINTS OF DOMESTIC WATER PIPING.
 - PROVIDE WATER HAMMER ARRESTORS (WHA) ON DOMESTIC WATER LINES. SIZE AND LOCATION AS PER PDI -WH201.
 - ALL SANITARY DRAINAGE PIPING TO BE RUN AT SLOPE OF 1/4" PER FOOT FOR 2" AND SMALLER AND 1/8" FOR 3" AND LARGER PIPES. ALL STORM DRAINAGE TO BE RUN AT SLOPE OF 1/8" PER FOOT UNLESS OTHERWISE NOTED.
 - ALL BACKFLOW PREVENTION DEVICES (RPZ / DCV / BFP) SHALL BE INSTALLED NO MORE THAN 54" AFF.
 - PROVIDE PIPING AND FITTINGS REQUIRED TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL INTERFERENCES.
 - INSTALL PIPING IN A NEAT ORGANIZED LAYOUT, COORDINATING WITH OTHER TRADES. ALL PIPING SHALL BE RUN CLOSE TO BEAMS, WALLS AND SLABS, SQUARE TO BUILDING CONSTRUCTION, CONCEALED ABOVE HUNG CEILING AND WITHIN FURRED SPACES.
 - REFER TO AND COORDINATE WITH ELECTRICAL DRAWINGS AND WORK ENSURING NO PIPE IS RUN DIRECTLY ABOVE NOR WITHIN THREE FEET OF ELECTRICAL PANELS.
 - REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.
 - REFER TO AND COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS, INCLUDING WORK FOR ALL CONCRETE PADS.
 - FURNISH AND MOUNT ALL MOTORS, STARTERS AND CONTROL DEVICES FOR ALL EQUIPMENT SUPPLIED. REFER TO ELECTRICAL SPECIFICATIONS FOR MOTORS AND CONTROL EQUIPMENT.
 - PLUMBING DRAWINGS ARE DIAGRAMMATIC AND NOT INTEND TO SHOW EXACT LOCATIONS. THE DRAWINGS INDICATE SIZE, CONNECTION POINTS AND ROUTES OF PIPE. IT IS NOT INTENDED, HOWEVER, THAT ALL OFFSETS, RISES AND DROPS ARE SHOWN. PROVIDE PIPING AS REQUIRED TO FIT STRUCTURE, AVOID OBSTRUCTION, AND RETAIN CLEARANCES, HEADROOM OPENINGS AND PASSAGEWAYS.
 - ALL CONDENSATE DRAINS FROM MECHANICAL EQUIPMENT SHALL BE INSULATED, INCLUDING FLOOR DRAIN BODIES & HORIZONTAL PIPING RECEIVING CONDENSATE.

- GENERAL NOTES:**
- PROVIDE AND INSTALL NEW CONTROLS FOR EXISTING HOUSE TANKS. THE CONTROL SYSTEM SHALL CONSIST OF PRESSURE TRANSMITTERS, FLOAT SWITCHES, MOTORIZED VALVES, TANK CONTROLLERS, INCLUDING A REMOTE CONTROL IN ENGINEER'S OFFICE. CONTROL SYSTEM TO BE PROVIDED WITH A KEY SWITCH TO ENABLE OPERATION BY AUTHORIZED PERSONNEL ONLY.
 - ALL NEW AND EXISTING ROOF DRAIN BODIES AND ASSOCIATED HORIZONTAL STORM PIPING SHALL BE SNAKED, CLEANED, & INSULATED. SUBSEQUENTLY, STORM SYSTEM (NEW AND EXISTING) FOR ENTIRE BUILDING SHALL BE TESTED WITH 10 FEET STATIC HEAD OF WATER. ANY LEAKS SHALL BE IDENTIFIED FOR FURTHER EVALUATION.
 - NOT USED
 - PROVIDE AND INSTALL BALANCING VALVES AT ALL EQUIPMENT AND AT BASE OF EACH RISER.
 - PROVIDE TRAP PRIMER FOR ALL FLOOR DRAINS. SEE TRAP SEAL PRIMER DETAIL ON P-501.
 - ALL LOCATIONS OF ACCESS DOORS SHALL BE SUBMITTED TO THE DESIGN TEAM FOR APPROVAL. SEE DWG A-930-2 FOR ACCESS PANEL SCHEDULE.
 - ALL PENETRATIONS THRU SLAB MUST GO THROUGH CONCRETE BLOCK, NOT CONCRETE RIBS.
 - EXISTING CAFETERIA LOCATED IN SECOND FLOOR AREA C IS TO REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION. ALL WATER, WASTE & VENT PIPING SERVING THIS AREA IS TO REMAIN. CONTRACTOR SHALL COORDINATE ANY NECESSARY SERVICE SHUTDOWNS AFFECTING THIS AREA WITH FACILITY AND CAFETERIA STAFF.
 - EXISTING PATIENT FLOORS 2-16 IN AREAS D&E ARE TO REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION. ALL WATER, WASTE & VENT PIPING SERVING THIS AREA IS TO REMAIN. CONTRACTOR SHALL COORDINATE ANY NECESSARY SERVICE SHUTDOWNS AFFECTING THIS AREA WITH FACILITY AND CAFETERIA STAFF.
 - ALL EXISTING SILLCOCKS TO BE DEMOLISHED AND REPLACED IN SAME LOCATION USING EXISTING WALL PENETRATIONS. CONTRACTOR SHALL PROVIDE NEW PIPING AND SILLCOCKS AS SHOWN ON PLANS.

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CONSULTANTS:

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225 Park Avenue South
New York, New York 10003

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: CONSTRUCTION

TITLE: MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION: MANHATTAN PSYCHIATRIC CENTER, BUILDING No. 102
600 EAST 125TH STREET WARDS ISLAND, NY 10035

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION	PROJECT NUMBER:	44578
			DESIGNED BY:	TW
			DRAWN BY:	JR
			FIELD CHECK:	N/A
			APPROVED:	JP

SHEET TITLE:

PLUMBING ABBREVIATIONS, NOTES & SYMBOLS

BUILDING NUMBER: DRAWING NUMBER:

P-001

SHEET

PLUMBING FIXTURE SCHEDULE										
DESIGNATION	DESCRIPTION	CONNECTION				PRODUCT MODEL	FLOW / FLUSH GPM/GPF	FIXTURE LOCATIONS		
		CW	HW	DRAIN	VENT					
P-1	WATER CLOSET (3.5 GPF)	1"	-	4"	2"	SEE SPECIFICATIONS	3.5GPF	PATIENT AREA TOILET ROOMS		
P-1A	WATER CLOSET (3.5 GPF, ADA)	1"	-	4"	2"	SEE SPECIFICATIONS	3.5GPF	PATIENT AREA TOILET ROOMS		
P-2	WATER CLOSET (1.6 GPF)	1"	-	4"	2"	SEE SPECIFICATIONS	1.6 GPF	STAFF & VISITOR AREA TOILET ROOMS		
P-2A	WATER CLOSET (1.6 GPF, ADA)	1"	-	4"	2"	SEE SPECIFICATIONS	1.6 GPF	STAFF & VISITOR AREA TOILET ROOMS		
P-3	URINAL	3/4"		2"	2"	SEE SPECIFICATIONS	0.5 GPM	GANG TOILET ROOMS		
P-3A	URINAL (ADA)	3/4"		2"	2"	SEE SPECIFICATIONS	0.5 GPM	GANG TOILET ROOMS		
P-4	LAVATORY (WALL HUNG)	1/2"	1/2"	1 1/2"	1 1/2"	SEE SPECIFICATIONS	0.5 GPM	PATIENT TOILET ROOMS		
P-5	LAVATORY (WALL HUNG)	1/2"	1/2"	1 1/2"	1 1/2"	SEE SPECIFICATIONS	0.5 GPM	STAFF & VISITOR AREA TOILET ROOMS		
P-5A	LAVATORY (COUNTERTOP, ADA)	1/2"	1/2"	1 1/2"	1 1/2"	SEE SPECIFICATIONS	0.5 GPM	GANG TOILET ROOMS		
P-5B	LAVATORY (COUNTERTOP)	1/2"	1/2"	1 1/2"	1 1/2"	SEE SPECIFICATIONS	0.5 GPM	GANG TOILET ROOMS		
P-6	MOP SINK	3/4"	3/4"	3"	1 1/2"	SEE SPECIFICATIONS	2.2 GPM	JANITOR CLOSETS		
P-7	STAINLESS STEEL SINK	3/4"	3/4"	2"	1 1/2"	SEE SPECIFICATIONS	2.2 GPM	ARTS & CRAFTS ROOM		
P-8	SHOWER STALL	3/4"	3/4"	2"	1 1/2"	SEE SPECIFICATIONS	2.5 GPM	PATIENT TOILETS/STAFF LOCKER ROOMS. PROVIDE SCHLUTER SHOWER SYSTEM WITH TRENCH DRAIN (KERDI LINE DRAINS).		
P-9	DRINKING FOUNTAIN	(2) 1/2"		(2) 1 1/2"	1 1/2"	SEE SPECIFICATIONS	-	PROVIDE 2 WATER & WASTE CONNECTIONS. VARIOUS LOCATIONS, SEE FLOOR PLANS		
P-9A	DRINKING FOUNTAIN (NON-FREEZE)	(2) 1/2"		(2) 1 1/2"	1 1/2"	SEE SPECIFICATIONS	-	PROVIDE 2 WATER & WASTE CONNECTIONS. VARIOUS LOCATIONS, SEE FLOOR PLANS		
P-10	HAND WASH SINK	3/4"	3/4"	2"	1 1/2"	SEE SPECIFICATIONS	2.2 GPM	PHARMACY, DISPENSING AREA		
P-11	PANTRY SINK	3/4"	3/4"	2"	1 1/2"	SEE SPECIFICATIONS	2.2 GPM	PANTRIES, EXAM ROOMS, BREAK ROOMS, OPHTHALMOLOGY, LOUNGES, MEDICATION ROOMS, LAUNDRY ROOMS, TREATMENT ROOMS, CPR CLEANING		
P-12	SERVICE SINK	1"		3"	1 1/2"	SEE SPECIFICATIONS	6.5 GPF	SOILED HOLDING ROOMS		
BC	BARBERS' CHAIR	3/4"	3/4"	2"	1 1/2"	SEE SPECIFICATIONS	2.2 GPM	PROVIDE HAIR TRAP		
EEW	EMERGENCY EYE WASH	1/2"	1/2"	2"	1 1/2"	SEE SPECIFICATIONS	2.2 GPM	VARIOUS LOCATIONS, SEE FLOOR PLANS		
HB	HOSE BIBB	3/4"	-	-	-	SEE SPECIFICATIONS	-	MECHANICAL AND EQUIPMENT ROOMS, TRASH ROOM, AND ALL TOILETS		
WM	WASHING MACHINE	3/4"	3/4"	2"	1 1/2"	SEE SPECIFICATIONS	-	LAUNDRY ROOMS		

PUMP SCHEDULE									
TAG	EQUIPMENT (LOCATION)	EA PUMP		MOTOR DATA					REMARKS*
		GPM	FT	HP	RPM	PHASE	CYCLE	VOLTS	
SP-1	ELEVATOR SUMP PUMP P-099-2A ELEVATOR PIT BUILDING 102	50	25	1/2	3600	1	60	115	STANCOR, MODEL SE-50, 2" PUMP DISCHARGE (WITH OIL SENSING SYSTEM & CONTROLS) PIT SIZE: 2' X 2' X 2' DEEP. PROVIDE EXTRA LONG CONTROL CABLING.
PM-1									
PM-2	TRIPLEX WATER TANK FILL PUMPS P-099-2C SUB-BASEMENT 102	199	312	30	3500	3	60	460	PEERLESS MODEL 2TU8A2. PROVIDE 2 SETS OF FLOAT CONTROLS FOR EACH ROOF TANK. CONTROL PANEL TO BE PROVIDED WITH SELECTOR SWITCH AND APPROPRIATE CONTROLS.
PM-3									
CP-1A & 1B									
CP-2A & 2B	HOT WATER CIRCULATOR PUMPS P-099-2C SUB-BASEMENT 102	30	25	2/5	3250	1	60	115	DUPLICATE CONFIGURATION. BELL & GOSSETT PL-55B. BRONZE CONSTRUCTION FOR DOMESTIC HOT WATER RECIRCULATION. FLANGE SIZE 1 1/2".
CP-3A & 3B									
SE-1									
SE-2	DUPLICATE SEWAGE EJECTOR PUMPS P-099-2E SUB-BASEMENT 102	60	30	1.8	3345	3	60	208	FLYGT CP 3045. REPLACE WITH NEW AIRTIGHT COVER & FRAME. PROVIDE ADDITIONAL SUPPORTS IF REQUIRED TO FIT NEW PUMPS IN EXIST 36" ROUND PIT. MECHANICAL JOINTS SHALL BE MADE WITH MECHANICAL COUPLINGS OR THREADED.

THERMOSTATIC MIXING VALVE SCHEDULE					
TAG	SYSTEM(S) SUPPLIED	LOCATION	TMV MODEL	FLOW RATING/SET TEMPERATURE	DESCRIPTION
LZMV	LOW ZONE HOT WATER	SUB-BASEMENT WATER HEATER AREA	POWERS LFMM432HLAEM00	80 GPM/120°	HI-LOW CONFIGURATION & WALL FRAME MOUNT. LEAD FREE.
MZMV	MID ZONE HOT WATER	SUB-BASEMENT WATER HEATER AREA	POWERS LFMM433HLAEM00	140 GPM/120°	HI-LOW CONFIGURATION & WALL FRAME MOUNT. LEAD FREE.
HZMV	HIGH ZONE HOT WATER	SUB-BASEMENT WATER HEATER AREA	POWERS LFMM431HLAEM00	65 GPM/120°	HI-LOW CONFIGURATION & WALL FRAME MOUNT. LEAD FREE.

DRAIN SCHEDULE				
SYMBOL	TYPE	MODEL	LOCATION	REMARKS*
FD-A	FLOOR DRAIN	KERDI DRAIN	TOILET ROOMS	SEE SPECIFICATION SECTION 220577. SCHLUTER TYPE FLOOR DRAIN.
FD-B	FLOOR DRAIN	J.R. SMITH, #2250	MECHANICAL ROOM, FAN ROOM	SEE SPECIFICATION SECTION 220577. TYPE D
TD	TRENCH DRAIN	KERDI LINE	TOILET ROOMS W/ SHOWERS (SCHLUTER SYSTEM)	TRENCH DRAIN USED SHALL BE BY SCHLUTER SYSTEM
RD 'A'	ROOF DRAIN	J.R. SMITH, #1010	ROOF AREAS	SEE SPECIFICATION SECTION 221426.
FUD	FUNNEL DRAIN	J.R. SMITH, #3824	TOILETS, MECHANICAL ROOMS, SUB-BASEMENT	SEE SPECIFICATION SECTION 220576. POLISHED CHROME PLATED CAST BRASS FUNNEL WITH TRAP

EXPANSION TANK SCHEDULE				
TAG	ASSOCIATED HEATER	LOCATION	MANUFACTURER / MODEL	DESCRIPTION
ET1	LZ WATER HEATERS 1&2	SUB-BASEMENT WATER HEATER AREA	AMTROL THERM-X-TROL ST-12-C	ASME CERTIFIED, 12" x 16", 6.4 gal
ET2	MZ WATER HEATERS 3&4	SUB-BASEMENT WATER HEATER AREA	AMTROL THERM-X-TROL ST-30V-C	ASME CERTIFIED, 16" x 19", 14.0 gal
ET3	HZ WATER HEATERS 5&6	SUB-BASEMENT WATER HEATER AREA	AMTROL THERM-X-TROL ST-42V-C	ASME CERTIFIED, 16" x 24", 17.5 gal

PLUMBING MISCELLANEOUS ITEMS SCHEDULE				
SYMBOL	ITEM	LOCATION	MANUFACTURER / MODEL	REMARKS
CODP	CLEANOUT DECKPLATE	FLOOR GENERAL USE	J.R. SMITH 4040-U	-
CODP	CLEANOUT DECKPLATE	FLOOR MECHANICAL ROOMS	J. R. SMITH 4040-G	-
WCO	WALL CLEANOUT	WALL	J.R. SMITH 4472T-U	-
WHA	WATER HAMMER ARRESTER	BATHROOMS, WASHING MACHINE VALVES, QUICK CLOSING VALVES	PPP INC. / SC-500 THRU SC-2000	INSTALL IN AN ACCESSIBLE LOCATION, SIZE PER PDI STANDARDS

PRESSURE REDUCING VALVE SCHEDULE						
TAG	SYSTEM(S) SUPPLIED	LOCATION	PRV MODEL (SET PRESSURE)	EXCESS PRESSURE SAFETY VALVE (TRIP PRESSURE)	DESCRIPTION	REMARKS
LPRV	LOW ZONE HOT & COLD WATER	SUB-BASEMENT WATER HEATER AREA	CLA-VAL 90G-01ASKxHCSI (80 PSI)	CLA-VAL 50G-33KxHCSI (95 PSI)	PARALLEL INSTALLATION WITH BYPASS, SEE DETAIL P-502	PROVIDE FRAME FOR MOUNTING
MHWPRV	MID ZONE HOT WATER	SUB-BASEMENT WATER HEATER AREA	CLA-VAL 90G-01ASKxHCSI (100 PSI)	CLA-VAL 50G-33KxHCSI (115 PSI)	PARALLEL INSTALLATION WITH BYPASS, SEE DETAIL P-502	PROVIDE FRAME FOR MOUNTING
MCWPRV	MID ZONE COLD WATER	5TH FLOOR NEAR ELEVATORS	CLA-VAL 90G-01ASKxHCSI (65 PSI) CLA-VAL JRG1318KxHCSI (65 PSI)	CLA-VAL 50G-33KxHCSI (80 PSI)	PARALLEL HI/LO INSTALLATION WITH BYPASS, SEE DETAIL P-502	PROVIDE FRAME FOR MOUNTING

WATER HEATER SCHEDULE								
TAG	EQUIPMENT (LOCATION)	MANUFACTURER AND MODEL NUMBER	RECOVERY	DIMENSIONS	STEAM DATA			REMARKS
					LB/HR	SIZE	PRESSURE (PSI)	
WH-1	WATER HEATERS 1 & 2 (LOW ZONE) SUB-BASEMENT BLDG. 102	PVI SEMI-INSTANTANEOUS 60 LH 5A-1SD	40 GPM 40-140 F	TANK SIZE: 30"DIA. x 64"L OVERALL DIM: 42"W x 88"L x 42"H	2050	2 1/2"	MIN. INLET: 5	DOUBLE WALLED STEAM FIRED HOT WATER GENERATOR. HORIZONTAL CONFIGURATION. SERVING: FLOORS B-2 ON 'A' SIDE FLOORS B-4 ON 'B' SIDE PROVIDE BMS CONTACTS FOR STATUS, SUPPLY TEMP & START/STOP OF EACH HEATER (BACNET COMPATIBLE). WATER SIDE OF HEATER TO BE OPENED FOR INSPECTION PRIOR TO START UP. PROVIDE EXTRA SET OF GASKETS.
WH-2								
WH-3	WATER HEATERS 3 & 4 (MID ZONE) SUB-BASEMENT BLDG. 102	PVI SEMI-INSTANTANEOUS 80 LH 5A-1SD	53 GPM 40-140 F	TANK SIZE: 30"DIA. x 64"L OVERALL DIM: 42"W x 88"L x 42"H	2730	2 1/2"	MIN. INLET: 5	DOUBLE WALLED STEAM FIRED HOT WATER GENERATOR. HORIZONTAL CONFIGURATION. SERVING: FLOORS 3-11 ON 'A' SIDE FLOORS 5-11 ON 'B' SIDE PROVIDE BMS CONTACTS FOR STATUS, SUPPLY TEMP & START/STOP OF EACH HEATER (BACNET COMPATIBLE). WATER SIDE OF HEATER TO BE OPENED FOR INSPECTION PRIOR TO START UP. PROVIDE EXTRA SET OF GASKETS.
WH-4								
WH-5	WATER HEATERS 5 & 6 (HIGH ZONE) SUB-BASEMENT BLDG. 102	PVI SEMI-INSTANTANEOUS 60 LH 5A-1SD	40 GPM 40-140 F	TANK SIZE: 30"DIA. x 64"L OVERALL DIM: 42"W x 88"L x 42"H	2050	2 1/2"	MIN. INLET: 5	DOUBLE WALLED STEAM FIRED HOT WATER GENERATOR. HORIZONTAL CONFIGURATION. SERVING: FLOORS 12-17 ON BOTH 'A' & 'B' SIDES PROVIDE BMS CONTACTS FOR STATUS, SUPPLY TEMP & START/STOP OF EACH HEATER (BACNET COMPATIBLE). WATER SIDE OF HEATER TO BE OPENED FOR INSPECTION PRIOR TO START UP. PROVIDE EXTRA SET OF GASKETS.
WH-6								

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Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

RBSD | **STV** 100 Years

ARCHITECTS PC

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CONTRACT:
CONSTRUCTION

TITLE:
MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION:
MANHATTAN PSYCHIATRIC CENTER, BUILDING No. 102
600 EAST 125TH STREET WARDS ISLAND, NY 10035

CLIENT:
NYS OFFICE OF MENTAL HEALTH

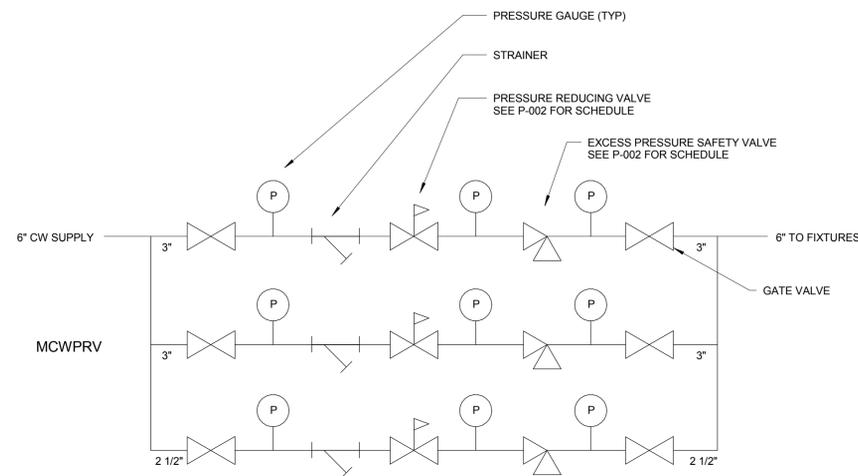
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DESIGNED BY:	TW
DRAWN BY:	JR
FIELD CHECK:	N/A
APPROVED:	JP

MARK DATE DESCRIPTION

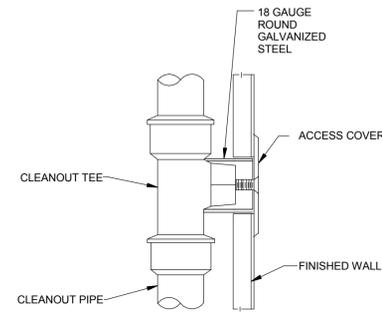
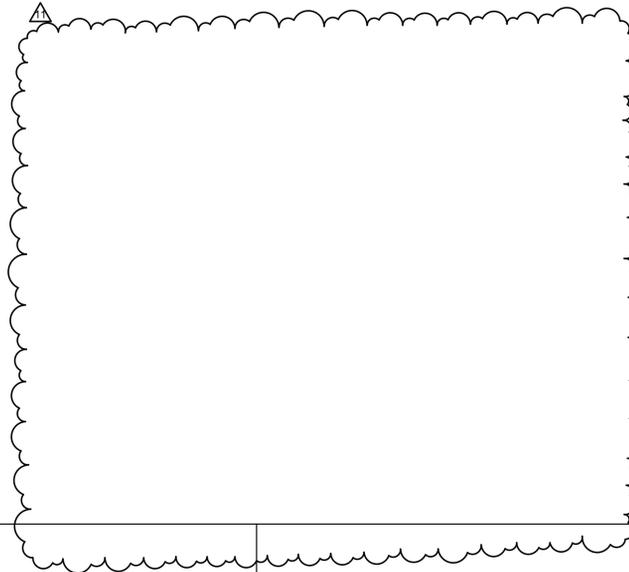
SHEET TITLE:
PLUMBING FIXTURE & EQUIPMENT SCHEDULES

BUILDING NUMBER: DRAWING NUMBER:
P-002

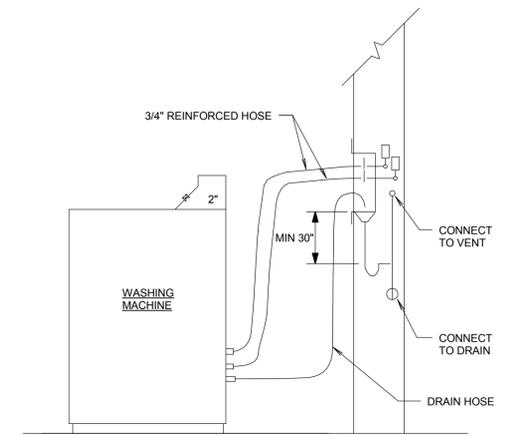
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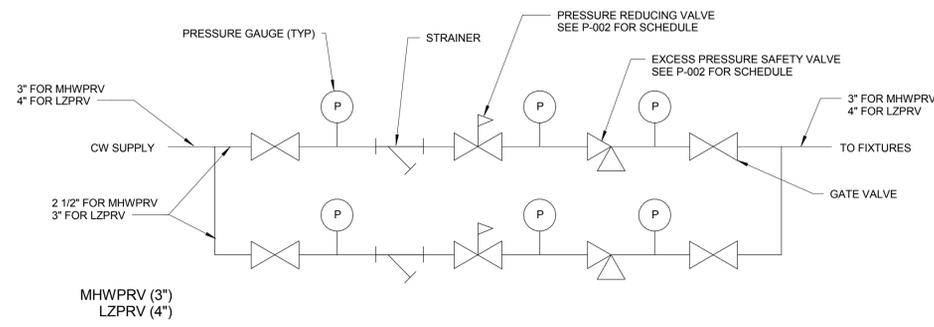
MCWPRV ASSEMBLY DETAIL
N.T.S.



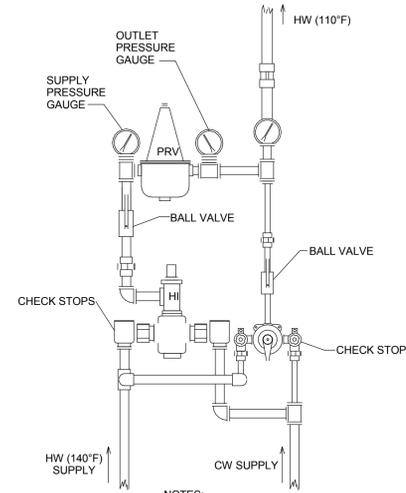
WALL CLEANOUT DETAIL
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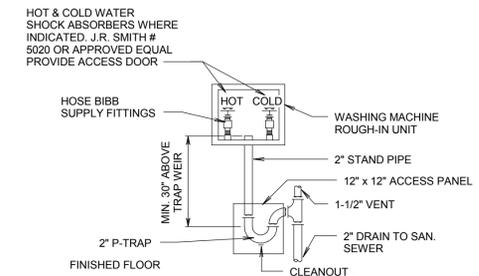
SCHEMATIC HOOK-UP OF LAUNDRY WASHING MACHINE
N.T.S.



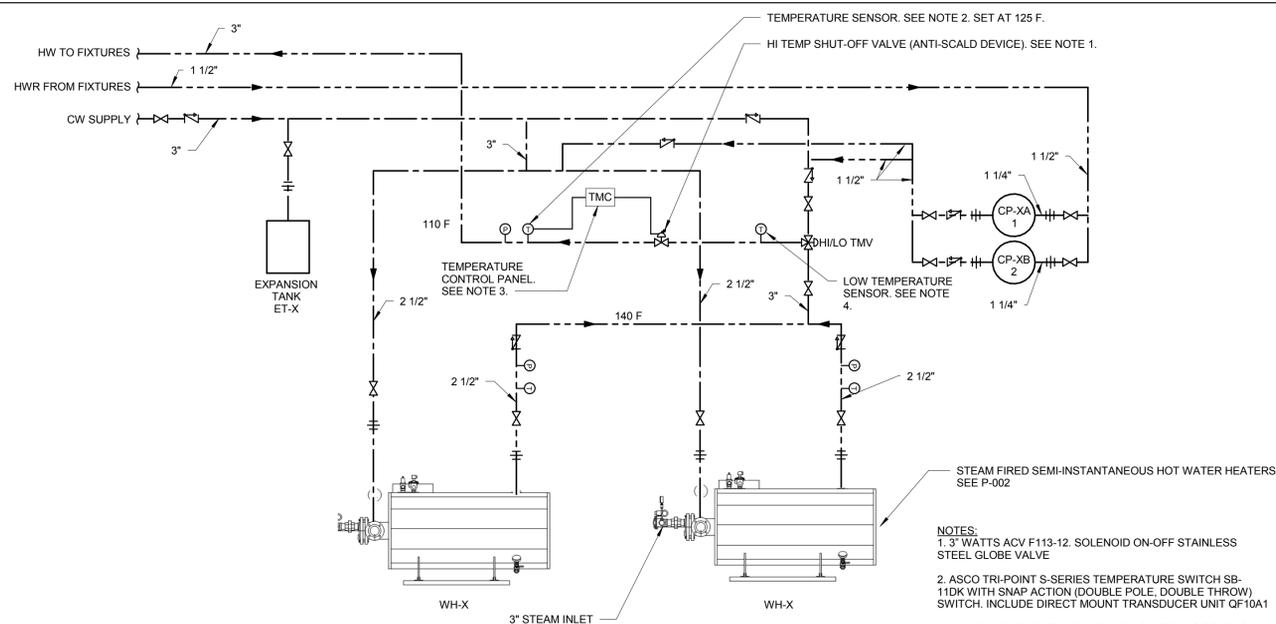
MHWPRV/LZPRV ASSEMBLY DETAIL
N.T.S.



HI/LOW MIXING VALVE
N.T.S.



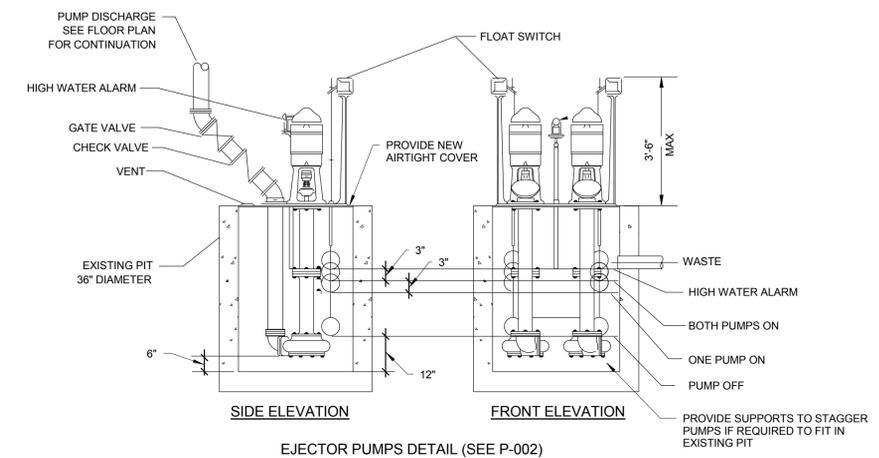
LAUNDRY WASHING MACHINE HOOK-UP DETAIL
N.T.S.



SCHEMATIC OF HOT WATER HEATERS
N.T.S.

- NOTES:
1. 3" WATTS ACV F113-12. SOLENOID ON-OFF STAINLESS STEEL GLOBE VALVE
 2. ASCO TRI-POINT S-SERIES TEMPERATURE SWITCH SB-11DK WITH SNAP ACTION (DOUBLE POLE, DOUBLE THROW) SWITCH. INCLUDE DIRECT MOUNT TRANSDUCER UNIT QF10A1
 3. HEAT TIMER TMC TEMPERATURE MONITORING CONTROL PANEL. LINKED TO BMS SYSTEM
 4. ASCO TRI-POINT S-SERIES TEMPERATURE SWITCH SB-11DK WITH SNAP ACTION (DOUBLE POLE, DOUBLE THROW) SWITCH. INCLUDE DIRECT MOUNT TRANSDUCER UNIT QF10A1. LINKED TO BMS SYSTEM

- NOTES:
1. VALVE SHALL BE EXPOSED & MOUNTED ON WALL WITH UNISTRUT.
 2. VALVE SHALL BE FINISHED IN ROUGH BRONZE.
 3. VALVE SHALL BE MANUFACTURED BY POWERS OR APPROVED EQUAL.



EJECTOR PUMPS DETAIL (SEE P-002)
NOT TO SCALE

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Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

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ARCHITECTS P.C.

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CONTRACT: CONSTRUCTION

TITLE: MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION: MANHATTAN PSYCHIATRIC CENTER, BUILDING No. 102, 600 EAST 125TH STREET WARDS ISLAND, NY 10035

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION	PROJECT NUMBER:	44578
	10/12/2015	ADDENDUM 11	DESIGNED BY:	TW
	6-15-2015	BID DOCUMENT	DRAWN BY:	JR
			FIELD CHECK:	N/A
			APPROVED:	JP

SHEET TITLE: PLUMBING DETAILS 2

BUILDING NUMBER: 102

DRAWING NUMBER: P-502-2

SHEET