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. 3 TO PROJECT NO. 44579

PLA PROJECT
CONSTRUCTION WORK
MANHATTAN FORENSIC RELOCATION
BID PACKAGE 1: DEMOLITION, ASBESTOS REMOVAL
STRENGTHEN FLOOR SLABS &
WINDOW REPLACEMENT
MANHATTAN PSYCHIATRIC CENTER
BUILDING No. 102
600 EAST 125th STREET
WARDS ISLAND, NY 10035

July 17, 2014

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.

CONTRACTING REQUIREMENTS

1. DOCUMENT 001114 ADVERTISEMENT FOR BIDS: The last date for receipt of bids is changed from Wednesday, July 23, 2014, to Wednesday, August 6, 2014.

SPECIFICATIONS

2. SECTION 011000 SUMMARY OF THE WORK: Article 1.03, Paragraph A: Delete '391 calendar days' and insert '487 calendar days".

3. SECTION 003113 PRELIMINARY PROJECT SCHEDULE: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 003113 – 1 and 003113 – 2) noted "Revised 07/17/2014".

4. SECTION 013113 PROJECT SCHEDULE: Delete this section in its entirety.

5. SECTION 013200 CONSTRUCTION PROGRESS DOCUMENTS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 013200 – 1 thru 013200 – 9) noted "Revised 07/17/2014

6. SECTION 013300 SUBMITTALS: Delete blank pages 11, 12, 13 and 14.

7. SECTION 028733 BIRD, BAT AND RODENT DROPPINGS REMEDIATION AND DISPOSAL: Add the accompanying section (pages 028733 – 1 Through 028733 – 13) to the Project Manual

8. SECTION 085653 ALUMINUM SECURITY WINDOWS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 085653 – 1 thru 085653 – 17) noted "Revised 07/17/2014".

DRAWINGS

9. Addendum Drawings:
   a. Hazardous Materials Drawing No. H-200-A, noted "ADDENDUM #3 dated 07/17/2014" accompanies this Addendum and forms part of the Contract Documents.

10. Revised Drawings:
    a. Drawing Nos. S-001, S-100-2, S-101-2, S-102-2, S-103-2, S-104-2, S-105-2, S-106-2, S-107-2, S-108-2, S-109-2, S-302-2, S-303-2, SD-002, SD-100-2, SD-101-2, SD-102-2, SD-103-3, SD-104-2, SD-105-2, SD-106-2, SD-107-2, SD-108-2, SD-109-2, SD-211-2, H-100-2A, H-100-2B, H101-2A, H-101-2B, H-102-2A, H-102-2B, FPT-099-2, FPT-100-2, FPT-101-2, FPT-102-2, FPT-103-2, FPT-112-2 and FPT-116-2, all noted "ADDENDUM #3 dated 7/17/2014" accompany this Addendum and supersede the same numbered originally issued drawings.

11. Drawing No. G-005:
    a. Revise General Architectural Note No. 2 to read:
       "COORDINATE OPENING LOCATIONS AND SIZES THROUGH PARTITIONS ABOVE THE CEILINGS FOR REQUIRED PENETRATIONS OF FUTURE MEP WORK"
    b. .Revise Fire Rated Partitions Note No 1 to read:
       " PROVIDE TEMPORARY FIRE RATED PARTITIONS ON THE BASEMENT, FIRST AND SECOND FLOORS AS SHOWN" REFERENCES TO EXISTING RATED PARTITIONS ARE FOR INFORMATION ONLY."
    c. .General Demolition Notes: Note 1 on the first line change:
       "OFF STATE PROPERTY" to "OFF SITE".

12. Drawing No. G-007:
    a. In area within column lines 10-11 and H-I, add reference to DETAIL 7/AD-800.1 and to DETAIL 8/AD-800.1.

13. Drawings Nos. AD-100-2 through AD-116-2:
    a. Delete the DEMOLITION NOTES 1 through 6 that are common to these drawings in their entirety.

14. Drawings Nos. AD-100-2A, AD-100-2C, AD-100-2D and AD-100-2E:
    a. Add the following Leader Note directed to the area labeled 'Existing Corridor To Remain':
       "PROVIDE TEMPORARY SHAFT WALL CEILING. SEE DETAIL 9/ AD-800 AND 9A/AD-800"

15. Drawing Nos. AD-101-2 and AD-101-2B:
    a. At the existing shaft located in the area of column lines 8 -9 and column B, Add the following Leader Note::

"EXISTING FLOOR OPENING TO BE INFILLED WITH NEW FLOOR CONSTRUCTION. SEE STRUCTURAL DRAWINGS."

16. Drawing No. AD-101-2E;
    a. Add Keyed Demolition Note 8 to the toilet room located in the area of column lines 24-25 and column line O-P and in the area of column line 25 and column lines J-K.
    b. Add Keyed Demolition Note 19 to the toilet room located in the area of column lines 23 – 24 and column line J.

17. Drawings AD-102-2 and AD-102-2D:
    a. At location of Existing Service Elevator No. 1 and Existing Service Elevator No 2 add reference to Detail 1/AD-800.1.

18. Drawing AD-800:
    a. Details 9 & 9A: Add the following Note :
       "IN CENTER LOBBY AREA WHERE THE CLEAR SPAN EXCEEDS 8'-0" PROVIDE LARGER CH STUDS. IE. 400CH34 FOR SPANS UP TO 14.36 ft. AND 600CH34 FOR SPANS UP TO 17'-3". ALTERNATIVELY PROVIDE INTERMEDIATE SUPPORTS USING THE EXISTING BLACK IRON SUSPENTION SYSTEM"

19. Drawing WI-100-2:
    a. Add symbol for new Replacement Window W-2 at location of column line 9 and column line M.

APPENDIX

20. "MPC-Forensic Relocation Bid Schedule- noted May 23, 2014; Discard the Schedule bound in the Project Manual and substitute the accompanying Schedule 'MPC Forensic Relocation Bid Schedule- noted Revised July 15, 2014'.

END OF ADDENDUM

Margaret F. Larkin
Acting Executive Director

DOCUMENT 003113

PRELIMINARY PROJECT SCHEDULE

A Preliminary Project Schedule has been prepared for this project in CPM network Primavera P-6 format utilizing the Precedence Diagram Method. Bid Milestones are presented on the following pages which encompass the anticipated durations of Work related to the Project. The Preliminary Project Schedule and Bid Milestones are included as part of this section and will be used to develop the final CPM Baseline Project Schedule preparation in accordance with Sections 013200 and 013119.

After execution of the CMU-01 Agreement (blank included on last page of document 013200), the Project Schedule will become the basis for coordinating the work activities, measuring progress, and approving progress payments.

NOTE:

A. The prospective bidder expressly understands that his bid for the Work shall be based upon meeting all the established milestone dates, even if to meet such milestone dates requires expedited delivery of material, additional manpower, additional equipment, additional concurrent operations and overtime.

B. Failure to meet the established milestone dates may result in assessment of liquidated damages as described in Article 13 of the General conditions.

C. The start of work for this contract, which is indicated in the Preliminary Project Schedule as Activity ID # P1-M1000 'Notice of Award', shall be adjusted to reflect the actual date of the Notice of Award. If Activity P1-M1000 is delayed through no fault of the Contractor, then the remaining milestone dates will be adjusted by adding the corresponding period of delay to the milestone dates.

ASBESTOS, DEMOLITION, REPLACEMENT OF WINDOWS AND FLOOR STRENGTHENING
OGS CONTRACT 44579
MILESTONE DATES

Activity ID	Activity description	Early start	Early finish	Working Days from NOA
P1-M1000	NOTICE OF AWARD (M)	5-Sep-14		0
P1-M1150	APPROVE ASBESTOS WORK PLAN COMPLETE (M)		17-Oct-14	31
P1-M4000	APPROVE DEMO PLAN COMPLETE (M)		14-Nov-14	51
P1-M3450	APPROVE WINDOW SHOP DRAWINGS COMPLETE (M)		3-Dec-14	63
P1-4024	CONSTRUCT TEMP EGRESS CORRIDOR IN BASEMENT		15-Dec-14	71
P1-M3490	RELEASE/FAB EXTRUSIONS START (M)		18-Dec-14	74

P1-M1060	FAB STEEL FOR FLOOR STRENGTHENING COMPLETE (M)		13-Jan-15	90
P1-M1065	START TO REMOVE FLOOR SLABS FLRS. 15 & 14 (M)	14-Jan-15		91
P1-M3600	START TO INSTALL WINDOWS (M)	28-Apr-15		163
P1-M1080	14TH FLOOR GYM CONCRETE COMPLETE (M)		19-May-15	178
P1-M3270	ABATEMENT BLDG 102 BASEMENT COMPLETE (M)		2-Jun-15	187
P1-M1105	START TO REMOVE FLOOR SLABS FLRS. 10 TO 2 (M)	3-Jun-15		188
P1-M3612	INSTALL WINDOWS BASEMENT COMPLETE (M)		6-Jul-15	210
P1-M1175	CONCRETE BASEMENT FLOOR COMPLETE (M)		5-Jan-16	337
P1-M3700	SUBSTANTIAL COMPLETION (M)		5-Jan-16	337

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SECTION 013200

CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 GENERAL

1.01 RELATED REQUIREMENTS AND INFORMATION SPECIFIED ELSEWHERE

A. Preliminary Project Schedule: Document 003113.

B. Summary of Work: Section 011000.

C. Administrative Requirements: Section 013000.

D. Project Meetings: Section 013119.

1.02 SUMMARY

A. Section includes administrative and procedural requirements to plan, schedule, and document the progress of the Project, and predict and prevent delays to established sequences and milestones during performance of the Work, including the following:
1. Critical Path Method schedule and reports.
2. Material location and delivery reports.
3. Field condition reports.
4. Special reports.
5. Change management.

B. A Critical Path Method (hereinafter referred to as CPM) shall be provided by Director's Representative using Primavera P-6 Format and shall be used to schedule the progress of the Work. All Work shall be done in accordance with the Project CPM Schedule and the Contractor agrees to cooperate fully with the Director's Representative in the development, implementation and updating of the Project CPM Schedule.

1.03 DEFINITIONS

A. Project: Work to be performed as part of one or more Contracts.

B. Schedule: A comprehensive leveling of necessary procedural tasks, the sequencing of those tasks, and the incorporated resource allocation required to successfully complete the Work by the Project completion date.

C. Activity: An intricate part of the Work that can be identified and measured for planning, coordinating, monitoring, and controlling the project.

D. Milestone: A significant start or finish to Work on the Project defined by the Director's Representative.

E. Bid Milestones: Milestones or phases identified and included in the Contract Documents to be utilized by the Director's Representative and Contractor in developing the Baseline Project Schedule.

F. CPM: Critical Path Method is a scheduling process used to plan and coordinate the Project, arranging activities based on logical relationships in order to create a network diagram of interconnected procedures.

G. Baseline Project Schedule: The initial CPM schedule for completion of the Work of the Project in accordance with the Contract duration, approved by the Director's Representative and Contractor, and completed by Director's Representative.

1. Following the initial update to the Baseline Project Schedule, including but not limited to starts, finishes, activity percent complete, logic adjustments, or duration amendments, as agreed upon at the Project Schedule meeting by the Contractor and the Director's Representative, the current updated schedule rendering will be defined as the Project Schedule.
2. The Baseline Project Schedule will remain unaltered as a tool to measure progress outlined and anticipated during the Project Schedule Definition meeting.

H. PDM: Precedence Diagram Method utilizes standard CPM calculations creating an interdependent logical relationship between activities and a dependent path from Project Award through Substantial and Physical Completion.

I. Float: The measure of latitude in starting and/or completing an activity without impeding on the successful realization of Project milestones.

1. Float time is not for the exclusive use or benefit of either the State or the Contractors, but is a jointly owned expiring Project resource; float is available as needed to meet scheduled milestones and Project completion.
2. Recognizing float within an activity, or chain of activities, does not permit the Contractors to delay progress or completion of an activity.

J. Critical Path: A progressing sequence of interdependent activities within the schedule network containing zero (0d) total float and establishing the minimum Project Substantial and Physical Completion duration.

K. Resource: Any labor, material, or equipment, shared or exclusive, required for the completion of an Activity or the Work, which recognizes an associated cost.

1.04 SCHEDULE COORDINATOR

A. The Contractor shall designate a Schedule Coordinator who will be authorized to act on behalf of the Contractor on all matters of scheduling included in this Section and Section 013200. Once nominated, the Scheduling Coordinator may only be replaced after written notice is given to the Owner. The Contractor agrees, upon the request of the Director's Representative, to replace the Scheduling Coordinator. The Schedule Coordinator shall possess a minimum of five (5) years of construction related scheduling experience, shall have developed and maintained at least two (2) schedules for projects of similar size and scope, and shall be competent in the use of the specified Scheduling Software.

1.05 PRELIMINARY REQUIREMENTS

A. As part of the Bid Review Process, (within two (2) weeks after bids are opened, and before the Notice of Award), the apparent low bidder must submit to the Director's Representative, in writing, a list of durations and sequences for all activities that appear on the Preliminary Schedule. The contractor must demonstrate that they are in concurrence with the overall Preliminary Project Schedule and have the capability to meet its requirements. Failure to comply with this requirement may be cause for rejection of the bid.

1. In addition, the Contractor's proposed work force and other resource loading for each activity of the Precedence Diagram, broken down by trades, must also be provided.

B. The Contractor shall submit to the Director's Representative, in writing, within two (2) weeks after receipt by the Contractor of Notice of Award, the following information which must be in conformance with the Preliminary Project Schedule:

1. Schedule for Submittal of Asbestos Plan, Surveys, Window Shop Drawings, Samples and Performance Tests, Floor Strengthening Shop Drawings, Gymnasium Floor shop drawings and Demolition Plans.

2. Schedules for the award of subcontracts. The name of the person being proposed as Schedule Coordinator including qualifications and work experience.

1.06 DEVELOPMENT OF THE PROJECT SCHEDULE

A. The Director's Representative shall meet with the Contractor within four (4) weeks after Notice of Award to develop a comprehensive and detailed Baseline Project CPM Schedule. The Director's Representative will approve only those durations which in their opinion do not jeopardize the orderly completion of the work, conform to all intermediate and Milestone dates included in the Preliminary Project Schedule, and do not interfere with the orderly completion of the work of other contractors. It shall be the Contractor's responsibility to ensure that the CPM Schedule incorporates the contractor's scheduling information as

approved by the Director's Representative and is accepted by the Contractor as the Baseline Project Schedule for this contract.

B. The Contractor will sign the CMU 01 Agreement form (blank included at end of this Section) within five (5) calendar-days of final Baseline Project Schedule review and approval by the Director's Representative. Failure to accept the Baseline Project Schedule and sign the CMU 01 Agreement form will not absolve the Contractors of the scheduling requirements. The Contractor will be required to provide the necessary resources, at no additional charge to the State, to complete the Project in the manner defined by the Preliminary Project Schedule.

C. The Contractor shall make the requirements of the Project CPM Schedule an essential part of each purchase order and subcontract.

D. The Contractor shall cooperate in every way possible with other contractors in order to maintain the completion date and meet all the intermediate milestone dates. The Contractor expressly understands and agrees that no additional compensation shall be paid for such cooperation.

E. The Contractor shall submit such proof as may be required by the Director's Representative to show that the Contractor has complied with the schedule of dates for ordering equipment and material submitted in accordance with Section 013200.

F. The Contractor shall submit such proof as may be required by the Director's Representative, cooperate in the development, implementation and updating of detailed Critical Path Method sub-schedules for any special area.

. Preliminary or Baseline Project Schedules proposed by the Contractor recognizing early completion will be reviewed by the Director's Representative prior to acceptance of the Preliminary or Baseline Project Schedule.

. Bid Milestones included in the Contract Documents are to be incorporated into the project schedule.

. During the period between Project Award and the execution of the CMU-01 Agreement by the Contractor and the Director's Representative, the Contractor will comply with the Preliminary Project Schedule and will be responsible for providing the necessary resources to complete the Work as defined by the Director's Representative.

1.07 UPDATING THE PROJECT SCHEDULE

A. The Contractor shall regularly review the reports generated by the Project CPM Schedule and use such reports as working tools to meet the Contractor's obligations under the Contract.

B. At the end of each month, the Directors representative will schedule monthly Schedule Review meetings to review and update the Project CPM Schedule. These meetings will be in addition to the Project Meetings. The Contractor shall attend all scheduling meetings as directed by the Director's Representative.

C. In addition to the Director's Representative and the Contractor's Superintendent and Scheduling Coordinator, such meetings shall also be attended by representatives of subcontractors as the Director's Representative sees fit. The agenda for such meetings shall include the project CPM schedule reports, the progress and current status of the Work in order to meet the Contractor's objectives and his obligations under the Contract. Consideration shall be given to establishing actual start dates, actual completion dates, planned starts and finishes, delivery dates for long lead materials and equipment, quantities installed, man-hours worked, as well as other data relevant to the performance of the Contract.

D. At least one week before each Schedule Review Meeting, the Contractor shall furnish to, and in the form required by the Director's Representative, progress data for:

1. The status of all activities as of date determined by the Director's Representative.

2. A list of actual start and completion dates for all activities.

3. Projected durations for completion of those activities in progress.

4. Relevant data for Submittals in progress including equipment releases and equipment in fabrication.

5. All other information, which in the discretion of the Director's Representative, may be required to complete the Project Schedule Update.

E. After the information required by Section 013200-1.07 D has been received from the Contractor and the Schedule Review Meeting has been conducted, the Director's Representative shall update the scheduled completion of the Work. This Project CPM Schedule, as updated, shall become binding on the Contractor. The Contractor will be required to provide additional manpower and equipment, should the update uncover significant delays to the Work of the Contractor, caused by the Contractor.

1.08 MAINTAINING SCHEDULE

A. Perform the Work in accordance with the Project Schedule and provide resources necessary to maintain the progress of activities as scheduled so that no delays are caused to other Contractors engaged in the Work.

1. Should any Contractor fail to maintain progress according to the Project Schedule, or cause delay to another Contractor, that Contractor shall provide such additional manpower, equipment, additional shifts, or other measures, at their own cost, to bring their operations back on schedule.

2. Performing activities as part of the Work out of sequence with the Project Schedule is not permitted unless written approval is obtained from the Director's Representative prior to commencement.

1.09 RECOVERY SCHEDULE

A. CPM Recovery Schedule: When periodic updates indicate the Work is 15 or more calendar-days behind the approved Baseline Project Schedule's Substantial or Physical Completion dates, the Contractors will present recovery options to the Director's Representative to be incorporated into an updated Project Schedule; these include, but are not limited to, allocating additional resources for activity duration reduction, modifying network logic, or revising activity sequences.

B. Any Contractor failing to furnish recovery options to the Director's Representative for a CPM Recovery Schedule within 10 calendar-days subsequent to the monthly Project Schedule update will be required to provide all resources necessary to execute an updated Project Schedule defined by a the Director's Representative.

C. Alterations to the Project Schedule by a CPM Recovery Schedule will require the approval of the Director's Representative.

D. Approved alterations to the Project Schedule by a CPM Recovery Schedule, will constitute the updated Project Schedule.

1. The updated Project Schedule following the implemented CPM Recovery Schedule will be recognized as the primary baseline schedule for reporting. The Baseline Project Schedule will be retained as a secondary baseline schedule and will be utilized to measure progress against the alterations.

E. A CPM Recovery Schedule recognizing early completion will be reviewed by the Director's Representative prior to acceptance of the Project Schedule update.

1.09 PAYMENT

A. Pursuant to Article 21 of the General Conditions of the Contract, the Contractor shall delineate certain scheduling functions to be monitored for payment:

1. Submission of the list of durations for all activities.

2. Submission of the Two Week Look Ahead.

3. Attendance by Contractor's Superintendent and Scheduling Coordinator at each of the monthly Schedule Review Meetings.

4. Furnishing, on time and in advance of each meeting required by Sections 013200, all progress dates required by Section 013200-1.07 D, in the detail and in the form required by the Director's Representative.

B. Payment for each of these items shall be subject to the Contractor's compliance with Sections 013200. If the Contractor fails to comply with these Sections, the Director's Representative shall execute a credit change order for the value of this work.

C. Projected Cash Flow: Within 4 weeks after completion and acceptance of the Baseline CPM Schedule, the contractor shall submit for review and approval by the Director's Representative a Projected Cash Flow spreadsheet analysis (Excel format) for the entire project. The Cash Flow Analysis shall be a breakdown of the total contract price, including each line item in the approved Detailed Estimate and coordinated with the Baseline CPM Schedule. Indicate the bi-weekly drawdowns anticipated for each line item from beginning to end of the project. Show bi-weekly and cumulative totals in dollar amounts and contract percentage amounts. The contractor's Detailed Estimate and the Monthly Payment Application as called for by Article 21 of the General Conditions of the Contract shall be the basis by which the Contractor is to be paid however, notwithstanding Article 21, the Contractor shall also furnish the Projected Cash Flow analysis as described above.

D. Formal acceptance by the Director's Representative of the Project CPM Baseline Schedule and Contractor's Projected Cash Flow Analysis shall be a condition necessary to processing the Contractor's first pay request. Only the cost of bonds will be paid prior to acceptance of the Project CPM Baseline Schedule and Cash Flow Analysis, provided the Detailed Estimate is approved by the Owner.

1.10 TWO WEEK LOOK AHEAD

A. In addition to the Contractor's CPM Schedule responsibilities described above, the contractor shall provide a two Week Look ahead of all current and anticipated activities that will be on-going, starting or completing for the next two weeks' time. The contractor shall identify day to day activities, anticipated deliveries, testing requirements and any work that required coordination with the facility or other agency.

1.11 PROJECT MEETINGS

A. The project meetings will be used for reviewing the contractor's Two Week Look Ahead schedule and monitoring adherence to the Project CPM Schedule with regard to the status of critical activities, procurement and material deliveries.

PART 2 PRODUCTS

2.01 SCHEDULING SOFTWARE

A. Scheduling Software: Any Schedule information provided by the contractor is to be prepared utilizing an electronic file provided by the Director's Representative and developed specifically to interface with the State's schedule program portfolio.

1. Utilize Oracle Primavera P6© PPM operating system.

PART 3 EXECUTION

3.01 TIME OF COMPLETION

A. It is the sole responsibility for the Contractor to complete the Work through the implementation of the project CPM schedule within the time required by the Contract.

3.02 BREACH OF CONTRACT

A. The Contractor's failure to comply with any requirement called for in Sections 013200 shall constitute a material breach of the Contract and the Director shall have the right to terminate the Contract, provided however, the failure of the Director to so terminate shall not relieve the Contractor from future compliance.

END OF SECTION

PROJECT NO. _____

PROJECT NAME: _____

REPORT DATE: _____

REPORT NAME(S): _____

_____

_____

_____

It is agreed that the Baseline Project Schedule defined by the above listed computer reports has been reviewed and is accepted for use in coordinating, scheduling, and monitoring the work of all related contracts.

FOR THE CONSTRUCTION WORK CONTRACTOR: _____DATE: _____

THE DIRECTOR'S REPRESENTATIVE: _____ DATE: _____

SECTION 028733

BIRD, BAT AND RODENT DROPPINGS REMEDIATION AND DISPOSAL

PART 1 GENERAL

1.01 SUMMARY

A. This project includes the disturbance, removal, cleaning and decontamination of existing bird, bat, and rodent droppings and disposal of removed materials.
   1. The high nutrient content of accumulated bird, bat, and rodent excrement provides an excellent growth medium for organisms of potential human health concern.
   2. Humans may become infected by inhaling dusts containing dried feces, urine, or respiratory secretions of infected birds, bats, and rodents.
   3. Other sources of potential exposures include a bite from an infected bird, bat, or rodent, and handling the plumage, fur and tissues of infected animals.
   4. The main disease organisms found in bird, bat, and rodent droppings are Cryptococcus, Histoplasmosis and Psittacosis.

B. This Section specifies the procedures for the disturbance and removal of existing bird, bat, and rodent droppings and remains in a structure and the cleaning and decontamination of affected surfaces. The project scope includes the removal and cleaning of bird, bat, and rodent droppings from areas throughout the facility.

C. Type of Remediation Project:
   1. Large Remediation Project: Greater than 100 square feet of surface contamination or greater than 10 square feet of air conveyance system contamination.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Existing Hazardous Material Information: Document 003126.

B. Summary of the Work: Section 011000.

C. Construction Facilities and Temporary Controls: Section 015000.

D. Removals, Cutting, and Patching: Section 017329.

E. Asbestos Abatement: Section 028213

F. Abatement of Lead Containing Materials 028303.

G. Handling of Lead containing Materials 028304.

H. Abatement of PCB Containing Caulk Sealant Materials: Section 028433.

I. Mold Remediation and Disposal: Section: 028553.

1.03 REFERENCES

A. New York State Department of Environmental Conservation (DEC): 6NYCRR Part 364.

B. New York City Department of Health, Bureau of Environmental & Occupational Disease Epidemiology: Guidelines on Assessment and Remediation of Fungi in indoor environments.

C. Occupational Safety and Health Administration (OSHA):
   1. Respiratory Protection, Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
   2. Construction Industry, Title 29, Part 1926, of the Code of Federal Regulations.
   3. Hazard Communication, Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.
   4. Specifications for Accident Prevention Signs and Tags, Title 29, Part 1910, Section 145 of the Code of Federal Regulations.

D. Center for Disease Control (CDC): Air Pollution and Respiratory Health - Prevention and remediation strategies for the Control and Prevention of Fungal Growth.

E. Center for Disease Control (CDC): Histplasmosis – Protecting Workers at Risk.

F. National Institute for Occupational Safety and Health (NIOSH): publication 2005-109: Histplasmosis-Protecting Workers at Risk.

G. The Internet Center for Wildlife Damage Management: Bat Guano & Bat Feces cleanup.

1.04 DEFINITIONS

A. Abatement/Remediation/Removal: The process or procedure for removing and controlling the biological release and/or dispersion of microbial agents.

B. Adequately Wetted: Sufficiently wet, mixed, or coated with a detergent solution to prevent biological and dust dispersion during the movement of contaminated items and debris.

C. Air Filtration Unit (AFU): Local exhaust HEPA equipped air filtration unit capable of maintaining a negative pressure inside the work area and a constant air flow from adjacent areas into the work area exhausting clean filtered air outside the work zone.

D. Air Sampling: The process of measuring inside biological contamination and outside ambient conditions.

E. Authorized Personnel: Facility or the Director's Representative, and all other personnel who are authorized officials of any regulating agency, be it State,

Local, Federal or Private entity who possess legal authority for enforcement or inspection of the remediation work.

F. Isolation Barrier: Any surface which seals off the work area to inhibit the movement of biological agents and contamination.

G. CIH: Certified Industrial Hygienist, certified by the American Board of Industrial Hygiene.

H. Clearance Criteria: Shall be determined and established by an independent Industrial Hygienist hired by the Director's Representative, conforming to all standards set forth by all authorities having jurisdiction, mentioned in the references, and issue the certification of cleaning.

I. Containment: The negative-pressurized enclosure within the building which establishes a contaminated area and surrounds the location where remediation is taking place.

J. Construction Barrier: Used for construction separation only.
   1. Does not prevent movement of infectious biological contaminants.
   2. Construction: 1/2 inch plywood and 2" x 4" studding spaced no greater then 24" o/c.
   3. Doorways (minimum): 3 ft. x 6 ft - 8 inches (min), installed where required for ingress and egress.
   4. Lock: Installed to secure the area when the Contractor is not on site.

K. Remediation Contractor: Contractor or subcontractor who has demonstrated 3 years previous experience in the clean-up of regulated chemical or physical substances, proficient in environmental remediation and the clean-up of contaminated debris and/or infectious biological agents.

L. Critical Barrier: Two layers of 6 mil, fire retardant, polyethylene sheeting adhered in such a fashion that each layer is individually visible, and completely seals off the work area to prevent the distribution of infectious biological agents into the surrounding areas that are not part of the work area.

M. Decontamination Unit: A serial arrangement of rooms or spaces for the purpose of separating the work area from the building environment. This unit provides for entering the work site, returning to the clean environment, cleaning of persons, equipment, and movement of properly contained waste material.

N. Disposal Bag: A minimum 6 mil thick, polyethylene leak tight plastic bag used for packaging and transporting debris and biological waste from the work area to a disposal site.

O. Fixed Object: Mechanical equipment, electrical equipment, fire detection systems, alarms, and all other fixed equipment, furniture, fixtures or other items which cannot be removed from the work area.

P. HEPA: High Efficiency Particulate Absolute filtration efficiency of 99.97% down to 0.3 microns. Filtration provided on specialized vacuums and air filtration devices to trap particles and infectious agents.

Q. Moveable Object: Equipment, furniture or other items in the work area which can be removed from the work area.

R. Negative Pressure Ventilation System: A system established for the work zone utilizing Air filtration Unit(s) capable of maintaining a negative pressure inside the work area and which creates a constant air flow from adjacent areas into the work area and exhausts clean filtered air outside the work zone.

1. Maintains minimum of one complete air change every 15 minutes and 0.02 inches of water column pressure differential from the surrounding area at a minimum.

S. PPE: Personal Protective Equipment

T. Respirator: Device designed to protect the wearer from the inhalation of harmful respirable dust, fumes, mists and infectious biological agents.

U. Visible Emissions: Emissions containing particulate materials that are visually detectable without the aid of instruments.

V. Wet Cleaning: The process of eliminating biological contamination from building surfaces and objects by using cloths, mops, or other cleaning devices which have been dampened with detergent solution.

W. Work Area: The area where the related work or biological decontamination operations are performed which is defined and/or isolated to prevent the spread of biological agents.

1.05 ABBREVIATIONS

A. ASTM: American Society for Testing and Materials
1916 Race Street
Philadelphia, PA 19103
www.astm.org

B. CFR: Code of Federal Regulations
Government Printing Office
Washington, DC 20402
www.gpoaccess.gov/cfr

C. NIOSH: National Institute for Occupational Safety and Health
Building J.N.E. Room 3007
Atlanta, Georgia 30333
www.cdc.gov/niosh

D. OSHA: Occupational Safety and Health Administration
200 Constitution Avenue
Washington, DC 20210

www.osha.gov

E. USEPA: United States Environmental Protection Agency
401 M Street SW
Washington, DC 20460
www.epa.gov

1.06 SUBMITTALS

A. Product Data: Catalog sheets, specifications and installation instructions for each detergent, disinfectant and/or biocide, and chemicals specified.

B. Quality Control Submittals:
1. Worker' Qualifications: The persons removing contaminated material and their Supervisors shall be personally experienced in this type of work and shall have been employed by a company with a minimum of one year experience in this type of work.
2. Work Plan: Submit one copy of the work plan required under Quality Assurance Article.
3. Waste Transporter Permit: One copy of transporter's current waste transporter permit from NYS DEC.
4. MSDS sheets for detergents, disinfectants and/or biocides, and chemicals to be used during the project.

C. Remediation Company Qualification Data:
1. Name of Remediation Company, business address and telephone number.
2. Number of years in business.
3. Number of years performing bird, bat, and rodent dropping remediation.
4. Names, addresses and contact phone numbers of five projects of similar size and complexity in which contractor has performed bird, bat, and rodent dropping remediation work in the last 3 years.

D. Remediation Worker's Qualifications Data:
1. Name of each person who will be performing the Work and their employer's name, business address and telephone number.
2. Copy of recent pulmonary function testing (PFT) and respiratory fit testing.

E. Operation and Maintenance Data: Submit air filtration unit operation and maintenance data and manufacturer's catalog sheets for the HEPA filter. Provide an affidavit stating that the HEPA filters to be used for this project are new and unused.

F. Contract Closeout Submittals:
1. Disposal Site Receipts: Copy of each receipt showing that the waste containing materials have been properly disposed.
2. Copy of Daily Project Log.
3. Assessment Report: Submit copy of report compiled by an experienced Industrial Hygienist.
4. Air Monitoring Data: Submit copy of air test results and chain of custody if requested.

5. Bulk Sampling Data: Submit copy of bulk sampling results and chain of custody if requested.

1.07 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with the referenced standards and all applicable Federal, State and Local regulatory requirements.

B. Pre-Work Conference:
   1. Before the Work of this Section is scheduled to commence, a conference will be held by the Director's Representative at the Site for the purpose of reviewing the Contract Documents, discussing requirements for the Work, and reviewing the Work procedures.
   2. The conference shall be attended by the Contractor and any subcontractors.
   3. Other participants may be invited at the discretion of the Director.

C. Work Plan: Prior to the pre-work conference and before the physical Work begins, prepare a detailed Work Plan. The Work Plan shall include, but not be limited to, work procedures, types of equipment, crew size, negative pressure containment and decontamination unit details, locations and emergency procedures for fire and medical emergencies and contingencies for the failure of containment. The work plan will be discussed at the pre-work conference.

D. Remediation Contractor Qualifications: The firm performing the work of this section shall have been regularly engaged in bird, bat, and rodent dropping remediation work for a minimum of one year, and shall have completed 5 similar projects of size and complexity.

E. Remediation Worker Qualifications: The person performing the work of this section and their supervisor shall be personally experience in this type of work for a minimum of one year, and have received recent pulmonary function testing (PFT) and respiratory fit testing.

F. Testing Lab Qualifications: The proposed testing lab shall be New York State Department of Health Environmental Laboratory Approval Program (NYS ELAP) certified.

1.08 PROJECT CONDITIONS

A. Post the following documents at the entrance to the abatement area:
   1. Copy of the printed Work Plan.
   2. Warning signs and/or tape.

B. Shut-down of Air Handling System:
   1. Complete the Work of this Section within the time limitation allowed for shut-down of the air handling system serving the work area.
   2. The air handling system will not be restarted until approval of the cleanup project

C. Electric services to those portions of the building and facility shall be maintained at all times.

D. Remove or encase all equipment in the work area with two layers of six mil fire retardant polyethylene sheeting.

E. No aisle or passageway shall be obstructed so as to reduce its required width as an exit.

1.09 DELIVERY AND STORAGE

A. Deliver cleaning and disinfection/biocidal materials in manufacturer's original sealed and labeled containers.

B. Do not deliver products which have exceeded their shelf life, are in open or damaged containers or cartons, or are not properly labeled as specified.

C. Store cleaning and disinfection/biocidal materials in compliance with the manufacturer's printed instructions.

1.10 HEALTH AND SAFETY

A. Where in the performance of the work, workers, supervisory personnel or sub-contractors may encounter, disturb, or otherwise function in the immediate vicinity of contaminated items and materials, all personnel shall take appropriate continuous measures as necessary to protect all ancillary building occupants from the potential biological hazard of exposure to potential infectious agents.
   1. Such measures shall include the procedures and methods described herein and shall be in compliance with all applicable regulations of Federal, State and Local agencies.

1.11 FIRE PROTECTION AND EMERGENCY EGRESS

A. Establish emergency and fire exits from the work area containment. Provide first aid kits and two full sets of protective clothing and respirators for use by qualified emergency personnel in the clean room of the decontamination facility.

B. Maintain Daily Project Logbook throughout the entire term of the Project.
   1. All persons who enter the work area or containment shall sign the logbook.
   2. Document any intrusion or incident in the log book.

1.12 PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT

A. Workers must wear protective suits, protective gloves, eye protection and a minimum of half-face respirator with HEPA filter cartridge for all small projects and full face respirator on all medium and larger projects.

B. Respiratory Protection: As required by OSHA regulation 1910.134 and ANSI Z88.2.

C. Workers must be trained, have medical clearance and must have recently received pulmonary function test (PFT) and respirator fit tested by a trained professional.

D. Personal Air Sampling Program: As required by OSHA. Follow a complete respiratory protection program as specified by OSHA.

PART 2 PRODUCTS

2.01 AIR FILTRATION UNIT

A. Air Filtration Units: Comply with ANSI Z9.2, Local Exhaust Ventilation.
   1. Final Filter: HEPA type.
   2. HEPA Filter Efficiency: Minimum efficiency of 99.97 percent when challenged with 0.3 micron particles.
   3. Filter Identification: Marked with the name of the manufacturer, model number, air flow rating, efficiency and resistance, and the direction of air flow.
   4. Dispose used filters as contaminated waste.

B. Equip the system with the following:
   1. Automatic Shutdown: Stops the fan in the event of a rupture in the HEPA filter or blocked air discharge.
   2. Warning Lights and/or Alarms: Indicate an excessive pressure drop across the filters or an insufficient pressure drop across the filters.
   3. Non-Resettable Elapsed Time Meter: Indicate the total accumulated hours of operation.
   4. Gage or Manometer: Measures the pressure drop across the filter.

2.02 DISPOSAL BAGS

A. Type: Clear, minimum 6 mil thick polyethylene, preprinted with a caution label. Properly drum/containerize bags for disposal.

2.03 EQUIPMENT

A. Temporary lighting, heating, hot water heating units, ground fault interrupters, and all other equipment on site shall be UL listed and shall be safe, proper, and sufficient for the purpose intended.

B. All electrical equipment shall be in compliance with the National Electric Code, Article 305 - Temporary Wiring.

2.04 POLYETHYLENE SHEETS

A. Type: Fire retardant polyethylene, minimum 6 mil thick.

B. Initial Floor Protective Layer: Reinforced polyethylene sheets, minimum 10 mil thick.

2.05 PLYWOOD

A. Type: Fire-rated CDX plywood, with minimum thickness of 1/2 inch.

2.06 SEALANTS

A. Type: Combination fire stop foam and fire stop sealant to critically seal small openings; Dow Corning Fire Stop Foam and Dow Corning Fire Stop Sealant.

2.07 STUDS AND PARTITIONS

A. Type: 2" x 4" or metal studs with fire-rated CDX plywood.

2.08 RESPIRATORS

A. Type: Approved by the Mine Safety and Health Administration (MSHA), Department of Labor, or the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.

2.09 VACUUM CLEANERS

A. Type: Vacuums equipped with new HEPA filters.

2.10 CLEANING SOLUTIONS

A. Cleaners, Disinfectants and Solutions: Use of any of the following is acceptable:
   1. Disinfectants/Biocides and Cleaners: DuPont's Virkon S Virucidal Disinfectant.
   2. Formalin Solution: Dilute commercially available formaldehyde (containing 37-40 percent by weight of formaldehyde gas in water, stabilized with 10-15 percent methanol) with water to create a 5-percent, by volume, formalin solution.
   3. Chlorine Solution: 10% Chlorine Bleach and 90% warm water mixture.

PART 3 EXECUTION

3.01 BIRD, BAT, AND RODENT DROPPING MATERIAL HANDLING AND REMOVAL PROCEDURES

A. Comply with the referenced standards in Part 1 of this Section, and all applicable Federal, State and Local regulatory requirements.

B. Provide critical barrier on all openings (open doors, broken windows, etc.) in the work area. Use minimum 6 mil thick polyethylene sheeting on openings for the duration of the removal project.

C. Provide a HEPA filtered negative pressure containment for any area to be worked in. Provide a minimum of 4 air changes per hour. Refer to OSHA Asbestos Standard for further information.

D. Perform the work using HEPA vacuums and/or wet methods. Dust and spores shall be kept to a minimum. No visible emissions are allowed during the performance of the work.

E. Pressure washing inside building is not acceptable.

F. Humanely remove all remaining birds, bats, and rodents from the building. Prevent bird, bat, and rodent reentry by providing critical barriers.

3.02 PERSONAL PROTECTION

A. Disease prevention is dependant on the protection of workers from contact with particulate matter/spores.

B. Provide, and require all workers to use respiratory protection.
Type: Minimum of a NIOSH approved half face respirator with P-100 filters.
Use of dust and/or particle masks is not allowed.

C. Provide, and require all workers to use protective clothing.
1. Protective Clothing: Includes disposable Tyvek-type coveralls, safety glasses, and rubber gloves.
2. Tape glove/sleeve interfaces.
3. Rubber boots or Tyvek type booties shall be worn to prevent shoes from contamination.
4. Remove protective clothing and place in a plastic bag for disposal as required.

D. Decontamination Area: Complies with decontamination/shower units as described in the OSHA Asbestos Standard.
1. Workers will be required to wash upon leaving work area.
2. A soap/disinfection solution for workers, towels and a separate tool decontamination area are required.

3.03 CLEANING/DISINFECTION PROCEDURES

A. Comply with the referenced standards in Part 1 of this Section and all applicable Federal, State and Local regulatory requirements.

B. Historic Structures: Use only nonmetallic tools (i.e.: plastic spatulas and brushes) with natural fiber or nylon bristles to remove droppings.
1. Do not use tools that can damage building surfaces, such as coarse wire brushes.

C. Use of the Disinfectants/Biocides and Cleaner:
1. Follow manufacturer’s written instructions for products use and applications.
2. Do not perform final application (if required by manufacturer), until final inspection and approval by the Director’s Representative.
3. Upon written notification of completion of initial cleaning, apply approved biocide/disinfectant to all cleaned surfaces.

D. Use of the Formalin Solution:

1. Conduct decontamination when the temperature of the material being decontaminated is between 62F and 90F. Formalin solution is less effective at temperatures outside this range.
2. Completely saturate infected areas and adjacent areas that may have little or no droppings visible.
3. Follow manufacturer's printed instructions (if available), or the following CDC procedures. Quantities may vary, however the proper amount of formalin to use is that which completely saturates the contaminated material.
   a. Vertical Surfaces: One gallon per 150 square feet.
   b. Horizontal Surfaces (except on soil): One gallon per 6 square feet.
   c. Soil Surface: One gallon per 1square foot.
4. Exercise care to avoid formalin runoff.
5. Where bird, bat, and rodent excrement is deep apply formalin solution on alternate days to enhance the probability of contact with all of the infected material.
6. Disinfect contaminated equipment by soaking in 5 percent formalin solution for 15 minutes.

E. Use of the Chlorine Solution:

1. Use a light mist of the solution applied with pump action hand sprayer.
2. Do not use high pressure or a direct stream as this will scatter waste.

F. Hosing or pressure washing may be used for removing small amounts of recently deposited droppings from sidewalks and pavements.

G. Work from top to bottom.

1. Remove gross residue first so as to prevent spreading material to non contaminated areas.
2. Gross removal of areas of accumulated waste can be performed with scrapers, etc. directly into bags. Keep material wet.

H. Wet wipe/HEPA vacuum all surfaces where bird, bat, and rodent droppings are located. Cleaned surfaces must be free of all waste, dirt, debris and haze.

3.04 CLEARANCE CRITERIA

A. Prior to the removal of any containment or critical barriers, schedule a walk-through inspection with the Owners Representative and obtain his written certification of the cleaning.

1. The Directors Representative shall have final determination of an acceptable clearance level.

B. The areas will be considered clean when all visible contamination on surfaces has been removed from the work area.

3.06 POST REMEDIATION CLEANING

A. Perform post remediation cleaning upon notification from the Director's Representative that work area met all requirements of cleaning criteria or certification of cleaning.
   1. The contained area and decontamination room shall be HEPA vacuumed and cleaned prior to the removal of any critical or isolation barrier.
   2. Leave all areas dry and visibly free from contamination and debris.
   3. Clean ladders, scaffolds, and other equipment used during work.
   4. Clean the protective polyethylene enclosures, dispose of polyethylene sheeting, and wipe cloths, as contaminated waste. Place contaminated waste into 6 mil polyethylene waste bags for disposal.
   5. Similarly, clean plastic used to seal doors, windows, vents, or non-removable items. Remove and place into 6 mil polyethylene waste bags for disposal.

3.07 DISMANTLING AND REMOVAL OF CRITICAL/ISOLATION BARRIERS

A. Removal of critical and isolation barriers are not be permitted in any area where requirements of certification of cleaning have not been met.

B. Levels above the requirements of cleaning criteria or certification of cleaning shall require recleaning and further decontamination.

C. Surfaces should show no visible dust or growth of micro organisms.

3.08 DISPOSAL OF BIRD, BAT, AND RODENT DROPPING MATERIAL AND RELATED DEBRIS

A. Comply with the referenced standards in Part 1 of this Section.

B. Double bag droppings and contaminated waste in 6 mil polyethylene bags
   1. Goose-neck each bag with duct tape.
   2. Clean/disinfect outer bag prior to leaving the work area.
   3. Place bags in dumpster.

C. Transport the bird, bat, and rodent dropping waste, related debris, and waste water to an approved disposal site/landfill.

D. The waste hauler must possess a valid solid waste transporter registration issued by the New York State Department of Environmental Conservation.
   1. A licensed solid waste transporter shall be a commercial collector/hauler.

3.09 RESTORATION

A. When directed in writing, remove temporary decontamination facilities and restore area designated for these facilities to its original condition or better.

B. Where existing work is damaged or contaminated, restore work to its original condition.

END OF SECTION

SECTION 085653

ALUMINUM SECURITY WINDOWS

PART 1 GENERAL

1.01 DESCRIPTION

A. Provide aluminum security windows and related work as required for a complete installation in accordance with the Contract Documents for Phase 1 Construction Work. Provide insulated metal window panels as part of the Work of this Contract.

B. Finish shall match existing.

C. Windows shall be factory glazed. Refer to and coordinate with the respective glass and glazing requirements for Type D and Type S-1 Glazing as specified in Section 088100 and 088853.

D. Design and calculations substantiating design of the aluminum security windows is a requirement of the Contract.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Joint Sealants: Section 079200.

B. Glass and Glazing: Section 088100.

C. Security Glass and Glazing: Section 088853.

1.03 REFERENCE STANDARDS

A. Voluntary Guide Specifications for Aluminum Architectural Windows, AAMA GS-001, developed and published by American Architectural Manufacturers Association.

1.04 DESIGN REQUIREMENTS

A. Pressures and Test Loads:
   1. Design Pressure (DP): 40.0 psf.
      a. Anchors, Fasteners, and Hardware: 60.0 psf.
   2. Structural Test Pressure (STP): 60.0 psf.
   3. Water Test Pressure (WTP): 10.0 psf.
   4. Impact Load: 1800 ft lbs.

B. Thermal Movement: Provide for material expansion and contraction due to temperature changes from 30 degrees F below zero to 180 degrees F above zero.

C. Maximum Allowable Frame Section Dimensions:
   1. Window Frame Depth: 3-1/2 inches.

2. Combined Window and Sash Frame Widths:
   a. Exterior: 3-1/2 inches.
   b. Interior: 4-1/2 inches.

1.05 LABORATORY PERFORMANCE TESTS

A. Conduct laboratory performance tests, in accordance with specified standard test methods and procedures, on a test sample unit containing a fixed insulated transom panel above operable dual side-hinged inswinging sash unit unless noted otherwise.
   1. Test sample unit shall be complete with all components indicated for fabrication and installation on approved shop drawings.
   2. Test Sample Unit Type and Size: Window Type 3B, for 3 feet 8 inches wide by 5 feet 6 inches high masonry opening.

B. Air Leakage; ASTM E 283, Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors:
   1. Maximum Allowable Air Infiltration and Exfiltration: 0.10 cfm/lin ft of crack perimeter at 6.24 psf uniform static air pressure difference between opposite sides of the test unit.

C. Structural Performance; ASTM E 330, Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference: Conduct uniform Load Deflection and Structural Tests first to the exterior (positive) side of the window, then to the interior (negative) side.
   1. Uniform Load Deflection Test: No member shall deflect more than 1/175 of its span at 60 psf (STP) uniform static air pressure difference between opposite sides of the window.
   2. Uniform Load Structural Test; at 60 psf (STP) uniform static air pressure difference between opposite sides of the window.
      a. No glass breakage or permanent damage to fasteners, hardware parts, support arms, actuating mechanisms, or other damage which would cause the window unit to be inoperable.
      b. Permanent deformation of individual frame, casement unit, or vent members shall not exceed 0.2 percent of its span.

D. Water Penetration:
   1. ASTM E 331; Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
      a. No observable water leakage at 6.0 psf uniform static air pressure difference between opposite sides of the window.
   2. ASTM E 547; Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential.
      a. No observable water leakage after 4 cycles at 6.0 psf uniform static air pressure difference between opposite sides of the window.

E. Vertical Deflection: AAMA GS-001, applied to both interior and exterior glazed casement units individually and in upright vertical positions.

1. Casement Unit Opening Positions: 45 degrees and 90 degrees (fully open).
2. Applied Load: 60 lb concentrated load applied downward, located at bottom unrestrained corner, for an undisturbed duration of 5 minutes.
3. The casement units and vents shall properly close and operate, and show no visible damage upon conclusion of the test.

F. Ventilator (Casement Unit) Torsion: AAMA GS-001, applied to both interior and exterior unglazed casement unit and vent frames supported in horizontal positions.
1. Horizontal Frame Support: Fulcrum support block and clamp, located at diagonally opposite corners of window frame in a horizontal plane, with one free corner loaded and diagonally opposite free corner securely held in position.
2. Applied Load: 20 lb load applied downward at unrestrained corner.
3. Maximum Deflection: 0.1875(A) inches, where (A) equals the inside unglazed surface area, in square feet, of the ventilator being tested.
4. Test each corner of each frame separately.

G. Impact Load: To simulate the impact load of a 200 lb running person, moving at the speed of 25 fps, striking the interior polycarbonate surface with their shoulder.
1. Impact Test Load: 1,800 ft lbs.
   a. Equipment and Method: Standard punching bag filled with lead shot weighing (w) lbs and allowed to free fall vertically downward from a pendulum length (l) feet measured horizontally and vertically away from the point of impact. The pendulum swing shall be in a vertical plane perpendicular to the plane of the window at the point of impact.
   b. Minimum Impact Load Calculation: Pendulum length (l) times weight (w) shall equal 1,800 ft lbs.
2. Securely fasten window in a frame assembly of the same configuration that is used in the actual field condition. Use the same type, number, size and location of frame anchors used in the actual field condition.
   a. The surrounding conditions, framing and window location within the masonry opening are shown schematically on the drawings.
   b. Verify field conditions and develop adequate framing and anchorage methods.
3. Conduct impact load tests sequentially at each of the following locations and include strain gage devices for recording window component deflections as part of the test procedure:
   a. At center of interior surface of inside casement glazing.
   b. Side of interior surface of inside casement glazing, 4 inches from lock side frame member and midway between locks.
   c. Side of interior surface of inside casement glazing, 4 inches from lock side frame member and directly opposite lowest lock.
4. Notify the Director’s Representative and the Design Consultants, in writing, a minimum of 2 weeks prior to performing the impact load test, the date, time and location where the test is to be performed.

5. Impact Load Test Reports; Include the Following:
   a. Detailed description of test with drawings showing construction of window frame structural support and fasteners, fastener types and spacings, test apparatus, and other equipment or devices used.
   b. Before and after photographs, including close-up photographs showing extent of damages, if any.
   c. Strain gage measurement recordings, including drawings showing precise locations of strain gages and component deflections incurred.
6. Window Will Have Passed the Impact Load Test When:
   a. Impact test load has not broken through the polycarbonate and made penetration contact with enclosed air space.
   b. Polycarbonate security glazing, although damaged, remains firmly held in place within perimeter casement frame and glazing stops.
   c. Polycarbonate security glazing stops, although bent and deformed, remain firmly held in place within perimeter casement frame.
   d. Polycarbonate frame, although bent and deformed, remains firmly attached to window frame by operable hinges and casement security locks
   e. Window frame, although bent and deformed, remains firmly attached to test frame enclosure.

H. Acoustical Test: ASTM E 90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions, ASTM E 336 Test Method for Measurement of Airborne Sound Insulation in Buildings, and ASTM E 413 Classification of Rating Sound Insulation.
   1. Acoustical tests shall be conducted on operable sash unit only, excluding transom panel, and for both indoor and outdoor noise sources.
   2. Minimum Sound Transmission Class (STC): 39 dB.

I. Thermal Performance (U-Valve): AAMA 1503.1, using 15 mph outdoor perpendicular wind speed, U-valve shall not exceed 0.45 Btu/hr/ft2/F.
   1. Test Reports: Include detailed drawings of window and thermocouple locations, test measurements taken at each thermocouple, and copy of computations used to determine U-valve ratings.

1.06 SUBMITTALS

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

B. Shop Drawings; Include the Following for Each Window Type:
   1. Interior and exterior window elevations, with window opening sizes and locations correlated to floor plans or exterior wall building elevations, using the same Window Schedule and window designations shown on Contract Drawings.

2. Full scale frame section details showing complete assembly of each window with transom, window with louver, frame component to be provided, exterior wall opening enclosure materials and assembly with frame, installation anchorage details, glass and method of glazing details, weep holes and frame drainage details, location of all hardware and fasteners to be provided.
3. Indicate thickness, dimension and components of insulated metal panels. Detail glazing methods, framing and tolerances to accommodate thermal movement.

C. Product Data: Manufacturer's catalog sheets, specifications, and installation instructions.

D. Finish Color Samples: Manufacturer's standard colors and range for each color, for finish(es) to match existing.

E. Samples:
1. One window unit of each type, complete with hardware.
2. Complete Type 3B window unit with insulating panel above, fully glazed and all hardware in place, to represent the quality of materials and workmanship to be provided in other windows to be installed.
   a. Deliver sample window to OGS Representative at the Site.
   b. Samples will be returned and, if approved, may be used in the work.
3. Hardware and Fasteners: Two of each item required.
4. Insulated Metal Panel Composite : 10" x 10".

F. Quality Control Submittals:
1. Test Reports: Certified laboratory and field performance test reports, bearing independent testing laboratory AAMA seal of approval and certification, for each test conducted.
   a. Test Reports: Include detailed drawings of windows and components tested showing size and location of all test loads and measuring devices used, tabulated record of readings and measurements taken, copies of any computations made using test data, and any other information required by the standard test method or procedure.
2. Manufacturer's Warranty: Sample copy of window manufacturer's 10 year warranty covering workmanship and materials.

3. Include structural computations, material properties and other information substantiating design and supporting structural analysis. Include calculations stamped by a structural engineer licensed in the state in which the project is located

G. Contract Closeout Submittals:
1. Operation and Maintenance Data: Deliver 2 copies, covering the installed products, to the OGS, the OMH, and their representatives.
2. Manufacturer's Warranty: Copy of specified warranty.

3. Maintenance Training: VHS tape showing how the windows are to be operated and maintained plus eight hours of one or more periods of instruction to Facility maintenance personnel.

H. Field Measure existing masonry openings. The Contractor shall field measure and inspect all existing masonry openings which are to receive new windows. Verify existing conditions at Heads, Jambs, and Sill substrates including Exterior Face Brick, CMU, and Brick Back-Up Wythes. Submit documentation showing field measurements of each masonry opening.

1.07 QUALITY ASSURANCE

A. Aluminum Security Windows Manufacturer's Qualifications: The manufacturer of aluminum security windows and all related hardware shall be regularly engaged in the production of such products, shall have furnished such products for 5 similar projects that have been in operation for a minimum of 3 years, and is subject to the approval of the Director's Representative and the Design Consultants.

B. Aluminum Security Windows Company Qualifications: The Company installing the Work of this Section shall be experienced in aluminum security window work, and shall have been engaged in aluminum security window work of this project's size and scope for a minimum of 3 years.

C. Installer's Qualifications: The person supervising the Work of this Section shall be experienced in aluminum security window work, and shall have been engaged in the assembly and supervision of installation of aluminum security windows for a minimum of 3 years.

D. Pre-Installation Conference: Before the aluminum security windows are scheduled to be installed, the OMH, the Director's Representative and the Design Consultants will call a conference at the site, for the purpose of reviewing the Contract Documents, shop drawings, approved submissions, and the requirements of the Work. The contractor, installers and their respective representatives shall attend. Other participants may be invited at the discretion of the OMH, the Director's Representative and the Design Consultants.

E. Testing Agency: Specified laboratory and field performance tests shall be performed by an independent AAMA certified testing laboratory.

F. Field Example: Prior to installation of windows, install one mock-up window for review and approval of installation method and field impact load test if laboratory impact load test is required.

G. A NYSPE will design, seal window, shop drawings, anchorages, blocking, attachments, temporary window protection, etc. including analysis, calculations, and related technical substantiation.

H. Field Example: Prior to installation of windows, install one mock-up window for review and approval of installation method and field impact load test if laboratory impact load test is required.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Deliver window units assembled in sturdy, protective crates or cartons.
   1. Mark crates or cartons with sufficient identification for proper window location.

B. Store and handle windows in a manner that will not cause damage to the finish.

1.09 WARRANTY

A. Special Warranty: The one year period required by Paragraph 9.8 of the General Conditions is extended to 2 years for the work of this Section. Refer to Supplementary Conditions (issued separately).

B. Manufacturer's Warranty: In addition to the 2 year period specified above, furnish the window manufacturer's printed 10 year warranty for the Work of this section.
   1. The warranty shall include but not be limited to; infiltration, leakage water penetration, glazing frame deflection or deformation, hardware, fasteners, venetian blinds, weatherstripping, finish durability (surface crazing, peeling, discoloration, blistering, or powdering), and other defects which would impair the aesthetic or performance properties of the window.

1.10 MAINTENANCE

A. Spare Parts: Furnish the following items in the manufacturer's original containers properly labeled with the names of the items and locations to be used. Match finishes of installed products. Store spare parts and special keys and tools at the Site where directed.
   1. Complete Windows: As directed by the OMH, the Director's Representative and the Design Consultants.
   2. Hardware:
      a. Four pair of sash to frame hinges.
      b. Four pair of sash to sash hinges.
      c. Four pair of interior sash primary locks.
      d. Four pair of interior sash secondary locks.
      e. Four pair of sash latches.
      f. One hundred escutcheon shields.
   3. Glass: Four percent of each glass type and size, used in each window type. Minimum of one each. Verify dimensions in the field.
      a. If exterior sash frame is designed in accordance with Subparagraphs 2.02 E.2.a. and 2.02 F.2.a. furnish preglazed sash frame.
   4. Venetian Blinds:
      a. One hundred complete replacement units with controls.

b. One hundred blind control knobs.

5. Keys and Special Tools:
   a. One hundred and fifty primary lock keys.
   b. Fifty secondary lock keys.
   c. All keys shall be keyed as specified.
   d. Oval head manual driver and power tool bit for each type of tamper-resistant screw and bolt size installed.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

A. Miami Wall Systems, Inc.; Hialeah FL 33010; Jorge Valdes (800-888-2300).

B. Or Approved Equal.

2.02 ALUMINUM WINDOW CATEGORY

A. Comply with the AAMA GS-001 requirements for Architectural Windows for the following window types:
   1. Side Hinged Inswinging Units: Dual sash unit, double-glazed with Type S-1 Security Glass in the interior sash and Type D Glass in the exterior sash.
      a. Hinge the inswinging dual sash unit to provide independent hinging of the interior sash for maintenance access to air space and venetian blind between the interior and exterior sashes.
   2. Fixed Units: Fixed units glazed with Type M insulated glass, and fixed insulated panels where indicated.
   3. Projected Units: Top hinged projected out glazed with Type M insulated glass, with fixed units above, and louvers where indicated.

2.02 MATERIALS

A. Aluminum Shapes: ASTM B 221, extruded aluminum, 6063 T5 or T6 temper.
   1. Minimum Wall Thickness: 1/8 inch.
      a. Type S-1 Glazing Stops: 3/16 inch minimum thickness.
   2. Interior Sash Rabbet Depth: Fabricate interior sash extrusion to provide a minimum of 1-1/4 inch rabbet depth for a one inch bite and 1/4 inch setting block required for Type S-1 security glass.

B. Window Frame: Extend above dual sash unit and transom bar to enclose fixed insulating panel or louver where required.
   1. Transom Bar Section: Same width and depth as window frame.
   2. Unsupported Extrusion Legs: Provide increased thickness, or concealed and thermally nonconductive connecting supports, to reduce deflection and deformation of unsupported extrusion legs.
   3. Drainage: Provide frame chambers and transom bars with concealed drainage downward to exterior egress at bottom of sill section.

4. Anchors: Use concealed clips designed and installed to withstand impact load. Bolt anchors may penetrate jamb and head sections only where adjacent exposed finishes do not allow concealment of clips.
5. Thermal Barrier: Continuous poured in place and interlocking polyurethane bridge with 3/8 inch minimum separation between exterior and interior aluminum frame contact surfaces.

C. Interior Sash Frame: Extrusion shall include lip projection to cover exposed inner edge of Type S-1 perimeter glazing material.

D. Concealed Security Eyelet: One stainless steel concealed security eyelet for interior window washer at each dual inswinging operable unit.
1. Location: On lock side of the window between window and operable sash frames.
2. Applicable Safety Regulations: Comply with ANSI A39.1, New York State Labor Department (NYSDOL), Industrial Code Rule No. 21, and Occupational Safety and Health Act (OSHA) requirements.
   a. Minimum Load Capacity: 5,000 ft lbs.
3. Style: Model WGS-SE by Weatherguard Service, Inc., PO Drawer F, Marietta, GA 30061, (770) 422-4808.
4. Structural Anchorage: Stainless steel bolted connection, through window frame and steel backer plate, secured to jamb structural support as required.

E. Glazing Stops:
1. Interior Sash: Extruded 90 degree angular snap-in stop, 3/16 inch thick and located on outer side of sash, secured in place with 3 No. 12 flat head stainless steel screws.
   a. Screws shall be located at center and one-third the distance from each end of the stop to the center screw.
2. Exterior Sash; Either of the Following:
   a. Structural glazing with a disposable sash frame.
   b. Extruded snap-in stop located on inner side of sash.

F. Reglazing Methods: Design and fabricate the window to allow reglazing as indicated.
1. Interior Sash: Remove and reinstall glazing stops on outer side of sash.
2. Exterior Sash; Either of the following:
   a. Remove and replace entire sash frame, including glazing.
   b. Remove and reinstall glazing stops to reglaze sash.

G. Window Frame Gaskets: Material and type recommended by window manufacturer, with integral flanges on each side, continuous and without splices except at integrally sealed corners.
1. Gasket Between Casements: Same as window frame gasket material but with minimal compressibility to prevent exterior sash inward deformation during designed wind load and laboratory test conditions.

H. Window Fasteners: Concealed non-magnetic stainless steel with visible heads, exposed within enclosed air space when interior casement is open, finished to match adjacent surfaces.
   1. Flush Fastener Heads: Phillips head.
   2. Raised Fastener Heads:
      a. Hexagonal head for attaching window frame and concealed clips to surrounding perimeter enclosure.
      b. Oval head tamper resistant fasteners by Avdel Division of Newman Industries, Inc., 50 Lackawanna Ave., Parsippany, NJ 07054, (201) 263-8100

I. Anchors: Window manufacturer's recommended anchorage devices and methods. Provide brackets or clips with fasteners that do not penetrate the window frame members.

J. Hardware for Inswinging Casements:
   1. Hinges: Extruded aluminum and fully concealed, with 1/4 inch diameter stainless steel pin, designed to allow interior sash unit to open not less than 85 degrees.
      a. Number of Hinges per Sash: One pair for sash heights less than 4 feet and 1-1/2 pair for sash heights 4 feet or greater.
   2. Interior Sash Primary Locks; Either of the Following:
      a. Concealed Three-Point Security Lock: Model No. 107 by Kane Manufacturing Corp., 515 N. Farley St., Kane, PA 16735, (800) 952-6399.
         1) Locate horizontal slide bolts at top and bottom of interior sash (lock side) frame and horizontal slide bolt at center.
         2) Escutcheon Shield: 1-1/2 inch diameter stainless steel around exposed keyhole, permanently affixed and unremovable from exposed side of sash frame.
         3) Keying: Key primary locks alike, with 36 keys total.
      b. Friction Pin Locks: Three concealed cam locks, series 300 stainless steel, friction pin with adjustable strikes and keepers, operable by custodial wrenches that can only be removed when sash is locked.
         1) Cam locks shall be hidden behind sash frame opening for custodial wrench.
            a) Escutcheon Shield: 1-1/2 inch diameter stainless steel around exposed keyhole, permanently affixed and unremovable from exposed side of sash frame.
         2) Locate top and bottom locks one-sixth the sash height maximum below and above horizontal sash members. Locate center lock midway between top and bottom locks.
         3) Custodial wrenches shall fit tightly and snugly into escutcheon, frame, and lock openings. Wrenches shall have a 1/4 inch diameter hole in the handle for attachment to metal rings and chains.

4) Install friction pin locks so that cams rotate in an upward direction to open.

5) Filing of friction pin locks is not permitted. Make adjustment for proper fit by changing the thickness of the friction pin lock adjuster.

3. Interior Sash Secondary Lock: Gem 7 pin tumbler, cylinder cam lock, with circular keyway and high security tumbler by Fort Lock Corp., 300 N. River Rd., River Grove, IL 60171-1097, (708) 456-1100. Provide two cylinder locks per window. Key shall be removable from lock only when lock is in locked position.

   a. Location: Six inches maximum from head and sill.

   b. Center lock upon a 1-1/2 inch diameter stainless steel escutcheon shield, permanently affixed and unremovable from exposed side of sash frame.

   c. Keying: Key secondary locks alike, with 36 keys total.

   d. Install cam locks so that cams rotate in an upward direction to open.

   e. Secure cam locks to the sash with a locking nut or tabs that are mechanically fastened to the sash. Tabs secured to the sash with glue alone are not permitted.

4. Adjustable Limit Devices: Model No. 37-34-00-101 by Truth Hardware, 701 W Bridge Ave., Owatonna, MN 55060, (800) 806-6167, installed at head and sill between interior sash and window frame, to allow and limit sash opening to 6 inches maximum measured from the outer edge of the window sash to the adjacent wall on the strike side.

5. Sash to Sash Locks: Two mechanical locking devices per window to keep interior and exterior sash together while window is being opened or closed and in either open or closed positions.

   a. Location: At one-fourth the frame height, below and above the horizontal frame members.

K. Venetian Blinds: Manufacturer's product designed for installation and use within window enclosed air space between exterior and interior inswinging casements.

1. Head Channel: Extruded Aluminum, 6063-T5 Temper, one inch wide by 7/8 inch high maximum size by 0.050 inch minimum thickness; furnished complete with tilting mechanism, and lifting mechanism, cord lock, stiffeners, ladder drums and cradles, installation brackets, and accessory items required for type of blind and installation indicated.

   a. Concealed head channel between interior and exterior top glazing stops.

   b. Tilting Mechanism: Tilter assembly designed to position tilt of slats at desired angle with smooth operation.

      1) Tilt Mechanism: Manually operated from recessed aluminum control knob, located on interior hinge-side surface of interior inswinging casement frame, connected to head channel tilt mechanism by a concealed neoprene covered woven bronze flexible wire cable with tubular bronze connectors.

a) Equip tilt mechanism with overload protector to disengage tilter assembly when excessive torque is applied at tilt control knob.

b) Tilt Control Knob: Aluminum finished to match adjacent frame surface, with nylon bushings and concealed fasteners.

c. Lifting Mechanism: Designed to smoothly raise and lower slats to any up or down position while maintaining horizontal angle position of slats.

1) Equip lifting mechanism with crash-proof cord lock that automatically locks blind into position upon release of lift cord.

a) Cord Lock: Steel, 0.025 inch minimum thickness, securely attached to head channel.

b) Cord: Braided polyester, 130 pound minimum tensile strength, located on lock side of interior casement frame, furnished with cord separators and ring at end.

c) Cord Attachment: Concealed frame mounted hooks, with finish to match adjacent frame surface, for concealed ring attachment of cord when blind is in any up or down position.

2. Slats: Aluminum alloy, 1 inch wide and 0.008 inch thick, with rounded end corners and elliptical crown formed after finish coating and curing.

a. Slat Length: Width of enclosed air space minus 1/2 inch for 1/4 inch maximum end clearance at each casement frame jamb.

b. Finish: Polyester baked enamel, one mil minimum thickness.

3. Bottom Rail: Aluminum, one inch by 3/8 inch maximum size by 0.050 inch minimum thickness; with molded plastic end caps and hold-down pins, ladder retainers, and metal jamb-type hold down brackets.

a. Finish: Polyester baked enamel, one mil minimum, over vinyl or epoxy primer.

b. Hold-down Brackets: Finish color to match adjacent casement frame color.

4. Ladders: Braided polyester yarn, spaced not more than 24 inches apart and not less than 6 inches from slat ends, secured to ladder drum in head channel and bottom rail at sill.

a. Ladder Length: As required to tautly secure bottom rail to jamb mounted hold-down brackets and within 5/8 inch clearance between bottom rail and casement frame.

5. Ladder Drum and Cradle: One for each ladder.

a. Ladder Drum and Cradle: Steel, or plastic with a two piece plated steel roller and pin assembly.

1) Provide ladders with crimped metal ends, to prevent unravelling, before attachment to ladder drum.

6. End Braces: Steel, 0.024 inch (24 gage) minimum thickness, with reinforcing ribs and field adjustable tabs, finished to match head channel.

7. Installation Brackets: Steel, 0.038 inch (20 gage) minimum thickness, with rivet hinged safety locking front cover, finished to match head channel.

a. Securely mount installation brackets to casement frame using concealed fasteners. Allow for easy removal and replacement of blind by opening and closing installation bracket front covers.

8. Color: Except as otherwise noted, color shall be ivory white throughout including slats, cords, ladders, and other exposed surface accessories.

L. Window Sill Extensions: Extruded aluminum, 6063 T5 or T6 temper. Color to match window finish. Configurations as indicated on the Drawings.

M. Mullion Closure Panels: Extruded aluminum, 6063 T5 or T6 temper. Color to match window finish. Configurations as indicated on the Drawings.

N. Aluminum Joint Sealer: Silicone rubber in color to match exposed adjacent surface.

O. Sill starters and jamb receptor assemblies. The aluminum sill starters and jamb receptor assemblies shall be fabricated and installed with watertight end dams.

2.03 FINISHES

A. Prepare surfaces for finishing in accordance with the Aluminum Association recommendations and standards.

B. Unless otherwise specified, finish all exposed aluminum surfaces.

1. Aluminum finishing and color applications shall be within the range of approved samples. All frame members on the same window shall be of the same color.

C. Aluminum windows finish: Match existing finish.

D. Insulated Metal Panels: As hereinafter specified in Paragraph 2.04.

2.04 FABRICATION JOINTS AND WIDTHS

A. Miter corner joints and butt joint horizontal transom bar to vertical jamb at window frame.

B. Maximum Miter and Butt Joint Widths:

1. Exterior: 0.015 inch.
2. Interior: 0.010 inch.

C. Maximum Change In Plane (Step) Across Joints: 0.012 inch.

D. Maximum Shift In Plane Between Two Members On Opposite Sides of the Same Joint: 0.020 inch.

E. Maximum Shift in Visual Alignment Between Mitered Interior Sash and Window Frame Joints: 0.062 inch.

2.05 INSULATED METAL PANELS

A. Acceptable Manufacturer: Mapes Industries, Lincoln, NE. or approved equal.

B. Panels shall consist of metal skins laminated to stabilizer substrates with an insulating core material.

C. Panels shall be designed to be glazed into the window system.

D. Finish
1. Exterior: .032 Kynar/Hylar - AAMA 605.2-92-resin based -70%
2. Interior: Porcelain on Steel
3. Color: Custom to match existing. Provide finish color samples to the Director's Representative and Design Consultants.

E. Panel Fabrication:
1. Substrates: Exterior: Fiber reinforced cement board
2. Substrates: Interior: Fiber reinforced cement board
3. Cores: A: 1.7-lb density Isocyanurate insulation
4. Tolerances - .8% of panels dimension length and width -(+/-) 1/16" thickness
5. Panel Thickness - 1 3/4"
6. R-Value - 11.2400
7. U-Value - 0.0890

F Accessories
1. As recommended for use as an infill panel component in window system.
2. Related material to complete installation: as recommended by the manufacturer; subject to acceptance of the window manufacturer/.
3. Sealant against moisture intrusion: as recommended by the manufacturer and acceptable to window manufacturer from one of the following; Polyurethane and silicone based sealant with a 20 year life.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Examine surfaces to receive windows for defects that will adversely affect the execution and quality of the Work. Do not proceed until unsatisfactory conditions are corrected.

B. Existing brick veneer masonry openings vary by up to 1/4" (+/-) from theoretical dimensions in both height and in width. Existing CMU back-up block masonry openings vary by up to 3/8" (+/-) from theoretical dimensions in both height and width. Provide necessary shimming, anchor sizes, trim, etc, as needed to compensate for variation in existing masonry opening dimensions.

3.02 PREPARATION

A. Coat aluminum surfaces in contact with masonry or incompatible metals with bituminous coating.

B. Ensure that panel surfaces shall be free from defects prior to installation.

3.03 INSTALLATION

A. Install the Work of this Section in accordance with the manufacturer's printed instructions, except as shown or specified otherwise.

B. Anchor window units securely in place, plumb, level, aligned, without warp of frames or sash.

C. Erect insulated panels plumb, level and true. Glaze panels securely and in accordance with approved shop drawings and manufacturer's instructions to allow for necessary thermal movement and structural support. Do not install panels that are observed to be defective including warped, bowed, dented, scratched and delaminating components.

D. Weatherseal all joints as required using methods and materials approved on final shop drawings.

3.04 FIELD PERFORMANCE TESTS

A. Field performance tests shall be conducted by an independent AAMA approved and certified testing laboratory, employed by the window manufacturer, upon 2 windows selected by the OMH, the Director's Representative and the Design Consultants, upon completion of window installations.
   1. Field performance tests shall be conducted in presence of the OGS, the Director's Representative and the Design Consultants.
   2. Correct test failure deficiencies and retest the window until field performance test is passed.
   3. If a window fails the same test, the test shall be repeated on additional windows, not previously tested; with windows selected by the OGS, the Director's Representative and the Design Consultants.
      a. For each window test failure, the same procedure shall be repeated until the tests statistically demonstrate that at least 90 percent of the installed windows pass each of the specified field performance tests.
   4. Field performance tests shall be for window assembly only and shall not include perimeter crack between window frame and surrounding adjacent wall construction.

B. Air Leakage; ASTM E 783, Field Measurement of Air Leakage Through Installed Exterior Windows and Doors:
   1. Installed windows shall not exceed 0.15 cfm/lin ft of crack perimeter at 6.24 psf uniform static air pressure difference between opposite sides of the window.

C. Water Penetration; AAMA 501.3, Field Check for Water Penetration Through Installed Exterior Windows, Curtain Walls, and Doors by Uniform Static Pressure:

1. Installed windows shall show no indication of water penetration at 8.0 psf uniform static air pressure difference between opposite sides of the windows.

D. Vertical Deflection; AAMA GS-001, applied to both interior and exterior casement ventilators separately and individually:

1. Casement Unit Opening Positions: 45 degrees and 90 degrees (fully open).
2. Applied Load: 60 lb concentrated load applied downward, located at bottom unrestrained corner, for an undisturbed duration of 5 minutes.
3. The casement units and vents shall properly close and operate, and show no visible damage upon conclusion of the test.

3.05 ADJUSTING AND CLEANING

A. Adjust movable components and hardware for smooth operation.

B. Clean exposed surfaces, including blinds and surfaces within the enclosed air space, without damaging finishes.

C. Remove masking film as soon as possible after installation.

END OF SECTION

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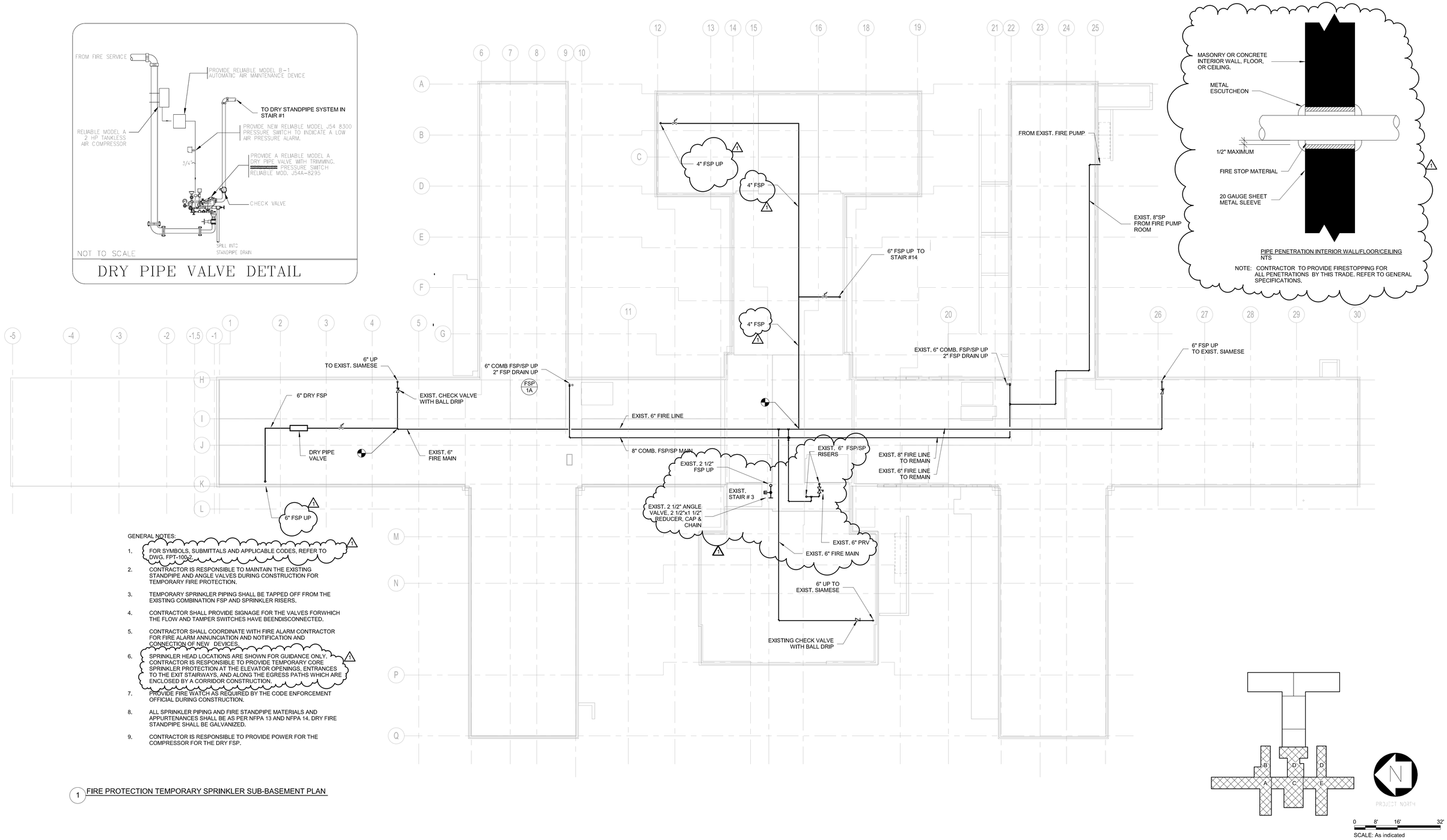
DRY PIPE VALVE DETAIL



GENERAL NOTES:

1. FOR SYMBOLS, SUBMITTALS AND APPLICABLE CODES, REFER TO DWG. FPT-100-2.
2. CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE EXISTING STANDPIPE AND ANGLE VALVES DURING CONSTRUCTION FOR TEMPORARY FIRE PROTECTION.
3. TEMPORARY SPRINKLER PIPING SHALL BE TAPPED OFF FROM THE EXISTING COMBINATION FSP AND SPRINKLER RISERS.
4. CONTRACTOR SHALL PROVIDE SIGNAGE FOR THE VALVES FORWHICH THE FLOW AND TAMPER SWITCHES HAVE BEENDISCONNECTED.
5. CONTRACTOR SHALL COORDINATE WITH FIRE ALARM CONTRACTOR FOR FIRE ALARM ANNUNCIATION AND NOTIFICATION AND CONNECTION OF NEW DEVICES.
6. SPRINKLER HEAD LOCATIONS ARE SHOWN FOR GUIDANCE ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY CORE SPRINKLER PROTECTION AT THE ELEVATOR OPENINGS, ENTRANCES TO THE EXIT STAIRWAYS, AND ALONG THE EGRESS PATHS WHICH ARE ENCLOSED BY A CORRIDOR CONSTRUCTION.
7. PROVIDE FIRE WATCH AS REQUIRED BY THE CODE ENFORCEMENT OFFICIAL DURING CONSTRUCTION.
8. ALL SPRINKLER PIPING AND FIRE STANDPIPE MATERIALS AND APPURTENANCES SHALL BE AS PER NFPA 13 AND NFPA 14. DRY FIRE STANDPIPE SHALL BE GALVANIZED.
9. CONTRACTOR IS RESPONSIBLE TO PROVIDE POWER FOR THE COMPRESSOR FOR THE DRY FSP.

1 FIRE PROTECTION TEMPORARY SPRINKLER SUB-BASEMENT PLAN

NYS OFFICE OF GENERAL SERVICES
Serving New York
ANDREW M. CUOMO
Governor
ROANN M. DESTITO
Commissioner

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

WARNING:
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STATE OF NEW YORK · JAMES PERNA · 085294 · LICENSED PROFESSIONAL ENGINEER

CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
1	7-17-2014	ADDENDUM 3
	6-30-2014	ADDENDUM 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	SM
DRAWN BY:	SM
FIELD CHECK:	TW
APPROVED:	BG

SHEET TITLE:
FIRE PROTECTION TEMPORARY SPRINKLER SUB-BASEMENT PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: FPT-099-2

SHEET 180 of 186

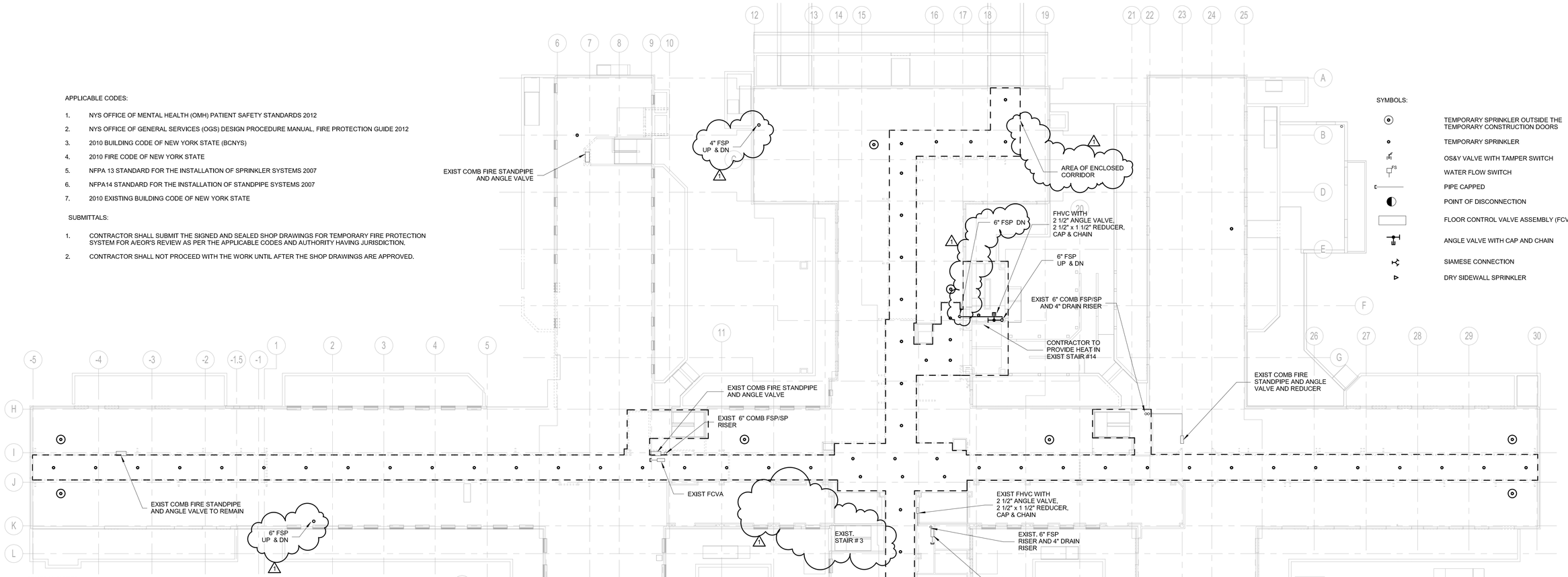
7/17/2014 11:45:41 AM

APPLICABLE CODES:

1. NYS OFFICE OF MENTAL HEALTH (OMH) PATIENT SAFETY STANDARDS 2012
2. NYS OFFICE OF GENERAL SERVICES (OGS) DESIGN PROCEDURE MANUAL, FIRE PROTECTION GUIDE 2012
3. 2010 BUILDING CODE OF NEW YORK STATE (BCNYS)
4. 2010 FIRE CODE OF NEW YORK STATE
5. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2007
6. NFPA14 STANDARD FOR THE INSTALLATION OF STANDPIPE SYSTEMS 2007
7. 2010 EXISTING BUILDING CODE OF NEW YORK STATE

SUBMITTALS:

1. CONTRACTOR SHALL SUBMIT THE SIGNED AND SEALED SHOP DRAWINGS FOR TEMPORARY FIRE PROTECTION SYSTEM FOR A/EOR'S REVIEW AS PER THE APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL AFTER THE SHOP DRAWINGS ARE APPROVED.



SYMBOLS:

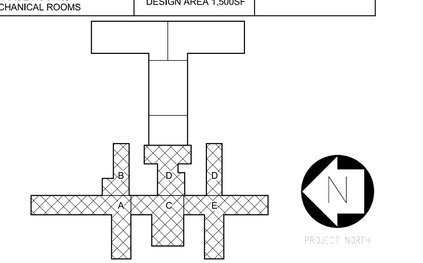
- TEMPORARY SPRINKLER OUTSIDE THE TEMPORARY CONSTRUCTION DOORS
- TEMPORARY SPRINKLER
- OS&Y VALVE WITH TAMPER SWITCH
- WATER FLOW SWITCH
- PIPE CAPPED
- POINT OF DISCONNECTION
- FLOOR CONTROL VALVE ASSEMBLY (FCVA)
- ANGLE VALVE WITH CAP AND CHAIN
- SIAMESE CONNECTION
- DRY SIDEWALL SPRINKLER

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE EXISTING STANDPIPE AND ANGLE VALVES DURING CONSTRUCTION FOR TEMPORARY FIRE PROTECTION.
2. THE CONTRACTOR SHALL FILL AND PATCH PIPE AND DUCT HOLES RESULTING FROM DEMOLITION, INCLUDING THOSE FROM MOUNTINGS AND HANGERS, AND ANY OTHER EXISTING FLOOR PENETRATIONS WITH A 2- HOUR RATED UL-APPROVED ASSEMBLY. DO NOT FILL AND PATCH HOLES IN WALLS SLATED FOR DEMOLITION.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS ACCESS TO ALL CORRIDORS ON THIS LEVEL,THROUGHOUT THE DEMOLITION, FOR THE ONGOING USE OF THE FACILITY STAFF AS REQUIRED FOR THE NORMAL, UNIMPEDED OPERATION OF THE FACILITY. BASE BUILDING SYSTEMS SUCH AS FIRE ALARM, SPRINKLERS, LIGHTING, VENTILATION, HEATING ETC. SHALL BE TEMPORARILY RELOCATED OR TEMPORARILY SUPPLEMENTED AS REQUIRED TO MAINTAIN CONTINUOUS OPERATION OF ALL CORRIDORS, COORDINATE THE PHASING AND TIMING OF DEMOLITION ACTIVITIES WITH THE CONSTRUCTION MANAGER AND FACILITY PERSONNEL AND ENSURE THAT SUFFICIENT ACCESS IS PROVIDED FOR FACILITY PERSONNEL THROUGHOUT THE DEMOLITION.
4. CONTRACTOR SHALL PROVIDE SIGNAGE FOR THE TEMPORARY VALVES FOR WHICH THE FLOW AND TAMPER SWITCHES HAVE BEEN PROVIDED.
5. CONTRACTOR SHALL COORDINATE WITH FIRE ALARM CONTRACTOR FOR FIRE ALARM ANNUNCIATION AND NOTIFICATION. 1
6. SPRINKLER HEAD LOCATIONS ARE SHOWN FOR GUIDANCE ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY CORE SPRINKLER PROTECTION AT THE ELEVATOR OPENINGS, ENTRANCES TO THE EXIT STAIRWAYS, AND ALONG THE EGRESS PATHS WHICH ARE ENCLOSED BY A CORRIDOR CONSTRUCTION. TEMPORARY FIRE SPRINKLER PIPING SHALL BE CONNECTED TO THE EXISTING COMB. FIRE SPRINKLER AND STANDPIPE RISERS: OUTSIDE THE STAIRS IN SIDE 'A', INSIDE THE STAIRS IN SIDE 'B' AND BEHIND MAIN ELEVATORS IN THE LOBBY AS REQUIRED.
7. PROVIDE FIRE WATCH AS REQUIRED BY THE CODE ENFORCEMENT OFFICIAL DURING CONSTRUCTION.
8. ALL SPRINKLER PIPING AND FIRE STANDPIPE MATERIALS AND APPURTENANCES SHALL BE AS PER NFPA 13 AND NFPA 14. DRY FIRE STANDPIPE SHALL BE GALVANIZED.
9. TEMPORARY SPRINKLER HEAD SHALL BE PLACED WHERE THE TEMPORARY CONSTRUCTION DOORS WILL BE INSTALLED. TEMPORARY CONSTRUCTION DOOR RATING SHALL MATCH THE RATING OF THE WALL IN WHICH IT IS BEEN INSTALLED.

TEMPORARY SPRINKLER DESIGN BASIS SCHEDULE

HAZARD CLASSIFICATION LOCATIONS	DESIGN BASIS	AREA OF COVERAGE PER SPRINKLER (MAX)
LIGHT HAZARD ELEVATOR LOBBY, CORRIDORS, STAIRWAY ENTRANCE	DENSITY 0.10 GPM/SF DESIGN AREA 1,500SF	225 SQ. FT.
ORDINARY HAZARD - 1 STORAGE ROOMS, MECHANICAL ROOMS	DENSITY 0.15 GPM/SF DESIGN AREA 1,500SF	130 SQ. FT.



0 8' 16' 32'
SCALE: 1/16" = 1'-0"

1 FIRE PROTECTION TEMPORARY SPRINKLER BASEMENT PLAN

NYS OFFICE OF GENERAL SERVICES
Serving New York
ANDREW M. CUOMO
Governor
ROANN M. DESTITO
Commissioner

CONSULTANTS:
RBSD ARCHITECTS P.C. | STV 100 Years
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STATE OF NEW YORK · JAMES PERRIE · 082294 · LICENSED PROFESSIONAL ENGINEER

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FIRE PROTECTION TEMPORARY SPRINKLER BASEMENT PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: FPT-100-2

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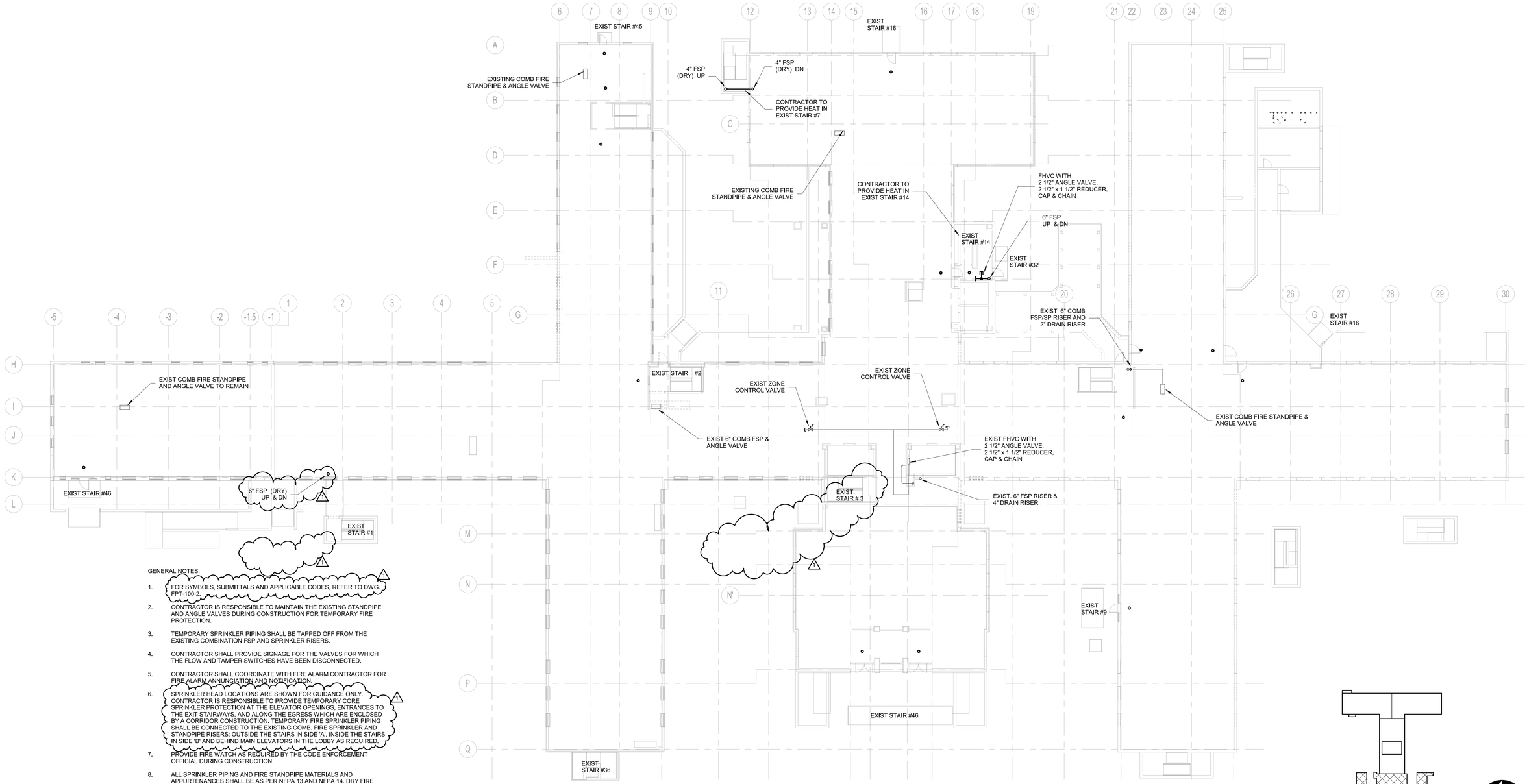

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4. CONTRACTOR SHALL PROVIDE SIGNAGE FOR THE VALVES FOR WHICH THE FLOW AND TAMPER SWITCHES HAVE BEEN DISCONNECTED.
5. CONTRACTOR SHALL COORDINATE WITH FIRE ALARM CONTRACTOR FOR FIRE ALARM ANNUNCIATION AND NOTIFICATION.
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7. PROVIDE FIRE WATCH AS REQUIRED BY THE CODE ENFORCEMENT OFFICIAL DURING CONSTRUCTION.
8. ALL SPRINKLER PIPING AND FIRE STANDPIPE MATERIALS AND APPURTENANCES SHALL BE AS PER NFPA 13 AND NFPA 14. DRY FIRE STANDPIPE SHALL BE GALVANIZED.

1 FIRE PROTECTION TEMPORARY SPRINKLER FIRST FLOOR PLAN

7/17/2014 11:45:42 AM

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STATE OF NEW YORK · JAMES PERLOFF · 090294 · LICENSED PROFESSIONAL ENGINEER

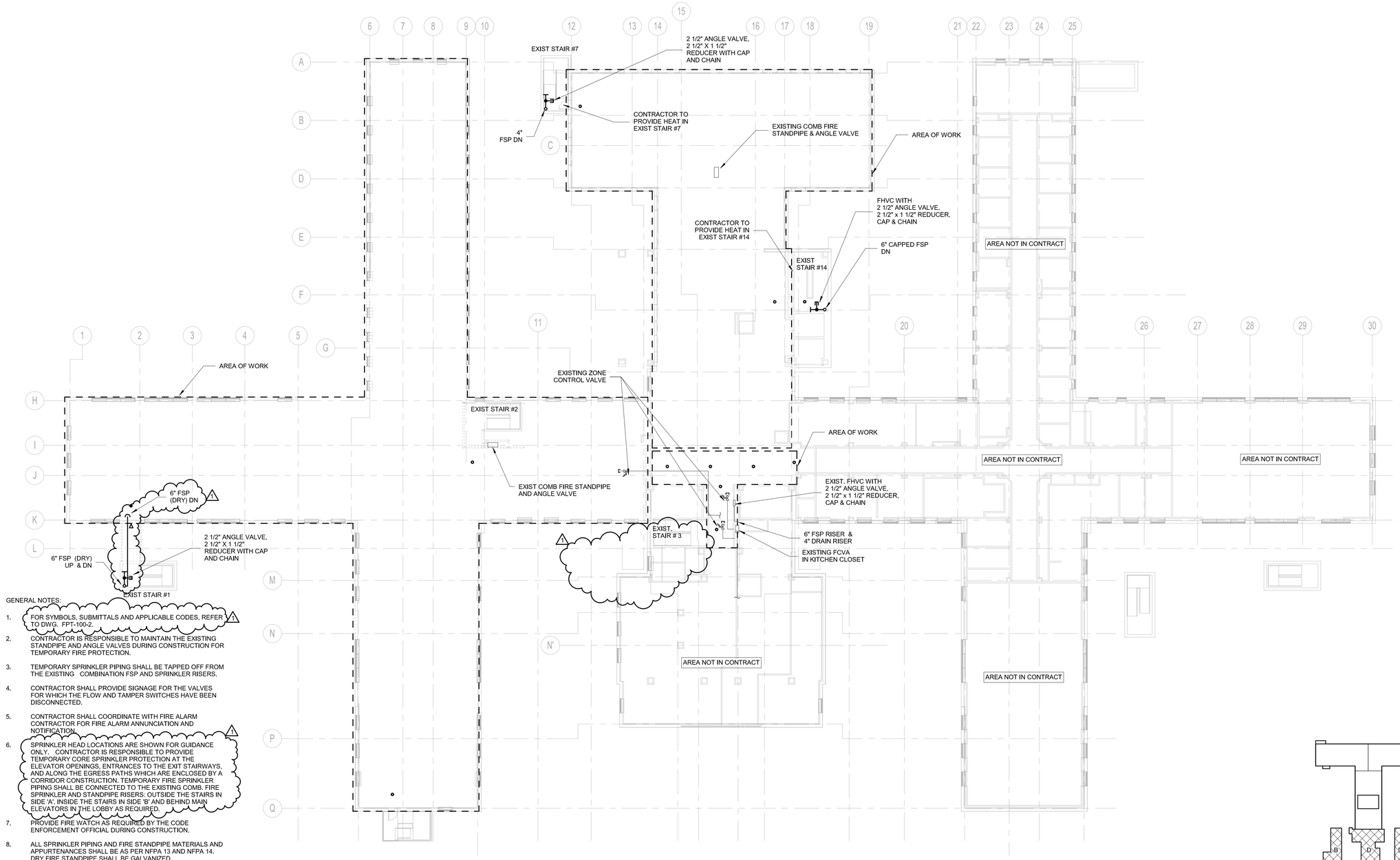
CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
1	7-17-2014	ADDENDUM 3
	6-30-2014	ADDENDUM 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	SM
DRAWN BY:	SM
FIELD CHECK:	TW
APPROVED:	BG

SHEET TITLE:
FIRE PROTECTION TEMPORARY SPRINKLER FIRST FLOOR PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: FPT-101-2



GENERAL NOTES:

1. FOR SYMBOLS, SUBMITTALS AND APPLICABLE CODES, REFER TO DWG. FPT-100-2.
2. CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE EXISTING STANDPIPE AND ANGLE VALVES DURING CONSTRUCTION FOR TEMPORARY FIRE PROTECTION.
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1 FIRE PROTECTION TEMPORARY SPRINKLER SECOND FLOOR PLAN

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STATE OF NEW YORK · JAMES PERISE · 292293 · LICENSED PROFESSIONAL ENGINEER

CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

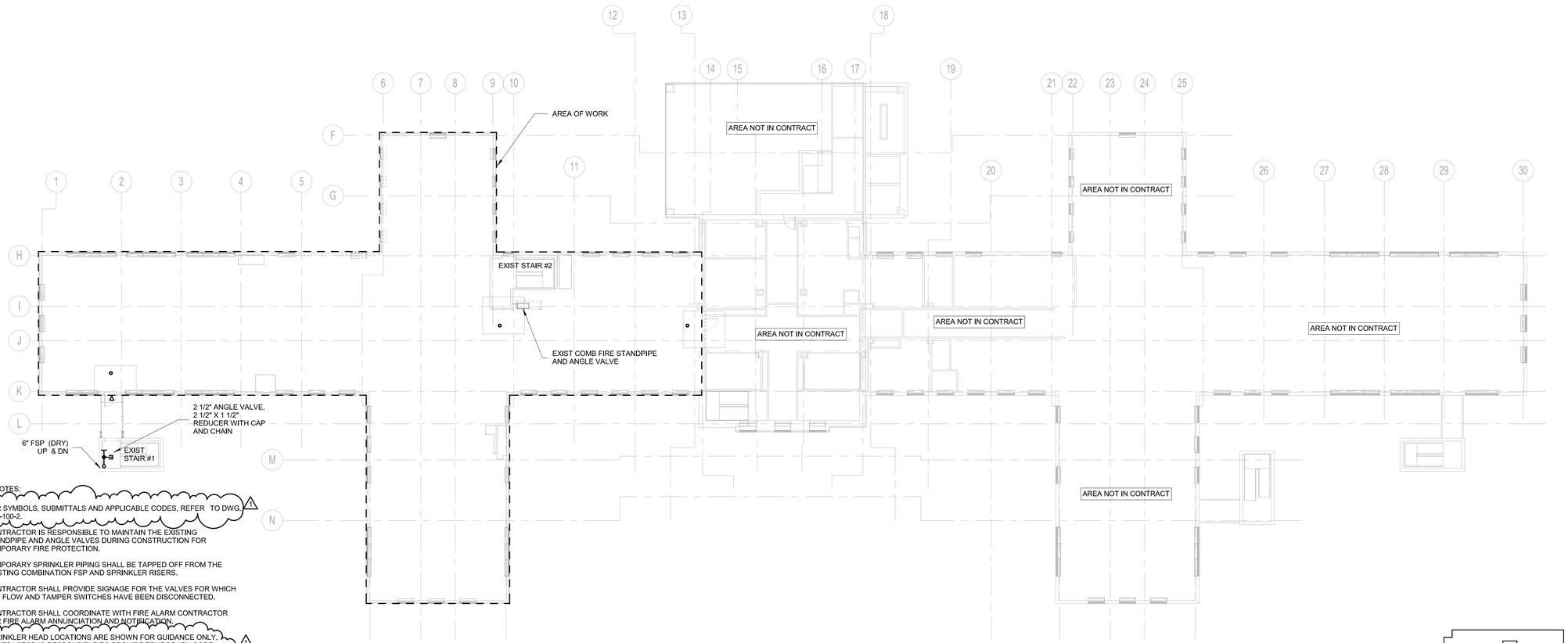
MARK	DATE	DESCRIPTION
1	7-17-2014	ADDENDUM 3
	6-30-2014	ADDENDUM 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	SM
DRAWN BY:	SM
FIELD CHECK:	TW
APPROVED:	BG

SHEET TITLE: FIRE PROTECTION TEMPORARY SPRINKLER SECOND FLOOR PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: FPT-102-2

7/17/2014 11:45:43 AM



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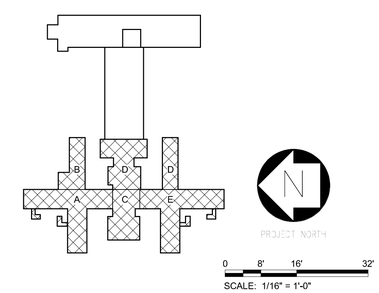
1 FIRE PROTECTION TEMPORARY SPRINKLER PLAN - TYPICAL FOR THIRD THRU ELEVENTH FLOOR



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STATE OF NEW YORK · JAMES PERNA · 089259 · LICENSED PROFESSIONAL ENGINEER

CONTRACT:
CONSTRUCTION

TITLE: PHASE 1 WORK:
DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT:
NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
1	7-17-2014	ADDENDUM 3
	6-30-2014	ADDENDUM 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	SM
DRAWN BY:	SM
FIELD CHECK:	TW
APPROVED:	BG

SHEET TITLE:
FIRE PROTECTION TEMPORARY SPRINKLER PLAN - TYPICAL FOR THIRD THRU ELEVENTH FLOOR

BUILDING NUMBER: 102

DRAWING NUMBER: FPT-103-2

7/17/2014 11:45:43 AM

GENERAL NOTES:

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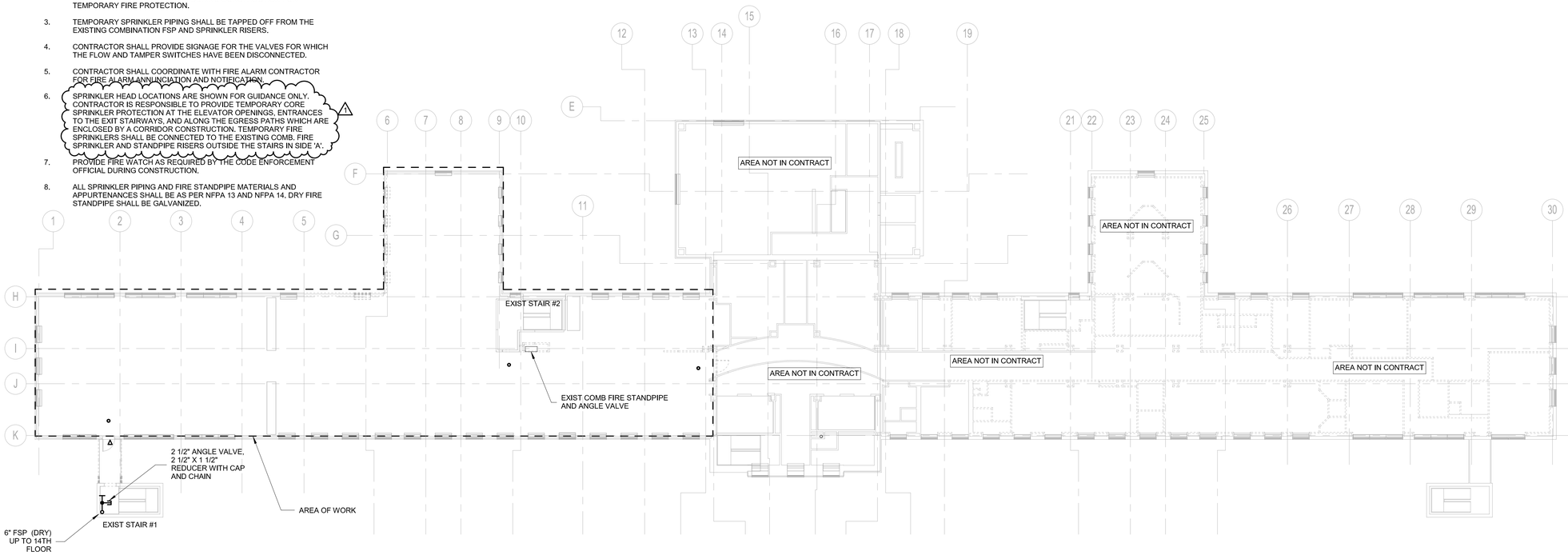
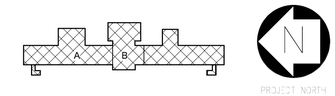


1 FIRE PROTECTION TEMPORARY SPRINKLER FLOOR PLAN - TYPICAL FOR TWELFTH THRU FIFTEENTH FLOOR



0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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STATE OF NEW YORK · DAVID PATAKI · LICENSED PROFESSIONAL ENGINEER · 082294

CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
1	7-17-2014	ADDENDUM 3
	6-30-2014	ADDENDUM 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	SM
DRAWN BY:	SM
FIELD CHECK:	TW
APPROVED:	BG

SHEET TITLE: FIRE PROTECTION TEMPORARY SPRINKLER FLOOR PLAN - TYPICAL FOR TWELFTH THRU FIFTEENTH FLOOR

BUILDING NUMBER: 102
DRAWING NUMBER: FPT-112-2

7/17/2014 11:45:44 AM

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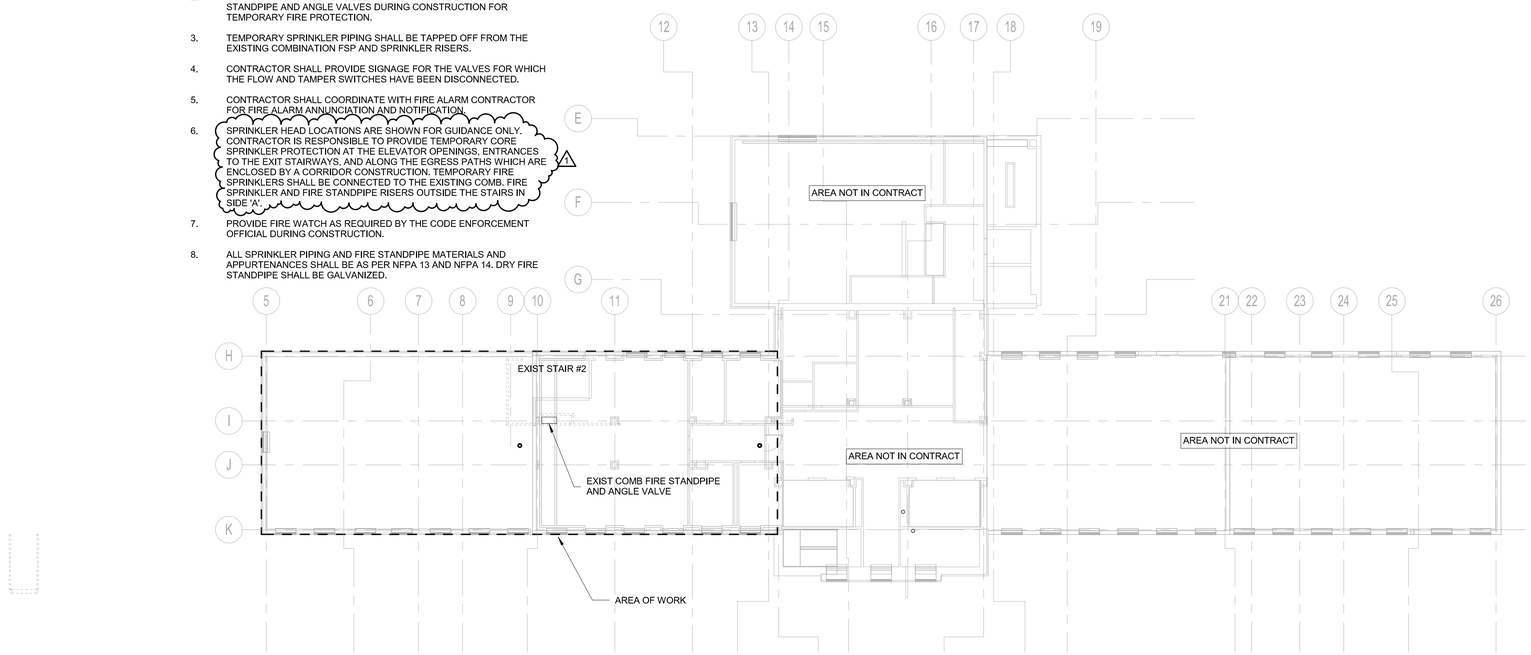
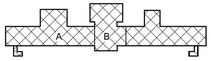


1 FIRE PROTECTION TEMPORARY SPRINKLER SIXTEENTH FLOOR PLAN



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STATE OF NEW YORK
JOHN FERRARE
LICENSED PROFESSIONAL ENGINEER
085294

CONTRACT:
CONSTRUCTION

TITLE:
PHASE 1 WORK:
DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT:
NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
1	7-17-2014	ADDENDUM 3
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PROJECT NUMBER:	44579
DESIGNED BY:	SM
DRAWN BY:	SM
FIELD CHECK:	TW
APPROVED:	BG

SHEET TITLE:
FIRE PROTECTION TEMPORARY SPRINKLER SIXTEENTH FLOOR PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: FPT-116-2

SHEET 186 of 186

7/17/2014 11:45:44 AM

WORK AREA	LOCATION	HOMOGENOUS AREA #	MATERIAL	ESTIMATED QUANTITY	REMOVAL METHOD	CONTAINMENT TYPE	APPLICABLE REGULATIONS	REMARKS
WA-1	BASEMENT BUILDING AREA	HA-34	PIPE INSULATION AND FITTINGS	9,000 LF	INTERIOR FRIABLE	FULL CONTAINMENT	12 NYCRR PART 56-7-11	PIPE INSULATION IS ASSOCIATED WITH SUPPLY AND RETURN PIPING TO EACH INDIVIDUAL RADIATOR AND IS CONCEALED IN CHASES ON EITHER SIDE OF THE RADIATOR. ASSUME 24 LF PER RADIATOR PLUS 20 LF FOR A CONDENSATION LOOP THAT IS ON EVERY OTHER FLOOR.
		HA-61						
		HA-20, 101 & 119	FIRE DOOR INSULATION	50 UNITS	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
		--	ELECTRICAL WIRE INSULATION	3,000 LF	INTERIOR FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE	12 NYCRR PART 56-7-11 (f)	WIRING IS LOCATED THROUGHOUT THE BASEMENT AREA ASSOCIATED WITH ELECTRICAL PANEL, FEEDERS, BRANCH CIRCUITS AND RECEPTACLES.
		HA-128	EXTERIOR WINDOW FRAME CAULK	1,518 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A MASONARY OPENING OF 22 LF PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-130	EXTERIOR WINDOW SILL CAULK	397 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A SIZE OF 5.75. LF PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-131	EXTERIOR WINDOW LINTEL CAULK	397 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A SIZE OF 5.75 LF PER LINTEL. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		--	WINDOW GLAZING	69 UNITS	INTERIOR NON-FRIABLE	WRAP SASH FROM EXTERIOR	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A SIZE OF 3 LF PER PER PANE OF GLASS AND 30 PANES PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-128	EXTERIOR WINDOW FRAME CAULK	285 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE B WINDOWS - ASSUME A MASONARY OPENING OF 18.75 LF PER WINDOW. SEE WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-130	EXTERIOR WINDOW SILL CAULK	60 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE B WINDOWS - ASSUME A SIZE OF 4 LF PER SILL. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-131	EXTERIOR WINDOW LINTEL CAULK	60 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE B WINDOWS - ASSUME A SIZE OF 4 LF PER LINTEL. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-114	WINDOW GLAZING	15 UNITS	EXTERIOR NON-FRIABLE	WRAP SASH FROM EXTERIOR	12 NYCRR PART 56 11.6	TYPE A WINDOWS (ASSUME B SIZE OF 3 LF PER PER PANE OF GLASS AND 30 PANES PER WINDOW). REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		--	DOUBLE FIRE DOORS	5 UNITS	INTERIOR FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE	12 NYCRR PART 56-7-11 (f)	CONTRACTOR TO TEST AND CONFIRM PRESENCE OF ACM IN DOUBLE FIRE DOORS PRIOR TO REMOVAL. CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-1A	BASEMENT A-WING	--	FIRE DOOR INSULATION	7 UNITS	INTERIOR FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE	12 NYCRR PART 56-7-11 (f)	CONTRACTOR TO TEST AND CONFIRM PRESENCE OF ACM IN DOUBLE FIRE DOORS PRIOR TO REMOVAL. CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
			DOUBLE FIRE DOORS	2 UNITS				
WA-2	ROOM B03	HA-73, 88 & 89[1]	FLOOR TILE AND MASTIC	1300 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	CONTRACTOR SHOULD ASSUME AT LEAST TWO LAYERS OF ACM FLOOR TILE PER STV'S SURVEY
WA-3	ROOM B02 & B04	HA-10-18[2]	FLOOR TILE AND MASTIC	125 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-111.7	LIMITED AMOUNT OF ACM FLOOR TILES SCATTERED THROUGHOUT ROOM.
WA-4A	BASEMENT BUILDING AREA	--	FLOOR TILE AND MASTIC	1,250 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	NO ACCESS WAS AVAILABE DURING SURVEY. CONTACTOR TO ASSUME MULTIPLE LAYERS OF ACM FLOOR TILE.
WA-4B								
WA-4C								
WA-5	ROOM B09	HA-86, 88 & 89[1]	FLOOR TILE AND MASTIC	135 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	NO ACCESS WAS AVAILABE DURING SURVEY. CONTACTOR TO ASSUME AT LEAST TWO LAYERS OF ACM FLOOR TILE.
WA-6	MENS LOCKER ROOM B18/B19	HA-86[1]	FLOOR TILE AND MASTIC	750 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
WA-7	ROOM B15	HA-86[1]	FLOOR TILE AND MASTIC	50 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
WA-8	ROOM B16	HA-46, 88 & 89	FLOOR TILE AND MASTIC	720 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
WA-9	ROOM B36/B38 AND SURROUNDING AREA	HA-88 & 89[1]	FLOOR TILE AND MASTIC	1,600 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
WA-9A	JANITORS CLOSET	--	PIPE INSULATION AND FITTINGS	120 LF	INTERIOR FRIABLE	FULL CONTAINMENT	12 NYCRR PART 56-7-11	PIPE INSULATION ASSOCIATED WITH HOT AND COLD WATER SUPPLY AND RETURN LINES.
WA-9B	ELECTRICAL SWITCH GEAR ROOM	--	PIPE INSULATION AND FITTINGS	96 LF	INTERIOR FRIABLE	FULL CONTAINMENT	12 NYCRR PART 56-7-11	PIPE INSULATION ASSOCIATED WITH HOT AND COLD WATER SUPPLY AND RETURN LINES.
WA-9C		--		120LF				
WA-9D		--		144 LF				
			SUB-TOTAL	**15,197 LF / 5,930 SF / 148 UNITS**				

TABLE NOTES: [1] - Based on STV Survey Report [2] - Based on Warren Panzer Survey Report

GENERAL NOTES:

1. THE CONTRACT DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED FOR THE PURPOSE OF REPRESENTING THE SCOPE OF WORK AND ARE MEANT AS A GUIDE ONLY AND DO NOT LIMIT THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL HAZARDOUS MATERIALS AS SPECIFIED. IF SUSPECTED HAZARDOUS MATERIALS ARE IDENTIFIED BY THE CONTRACTOR THAT ARE NOT SHOWN IN THE DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE FOR CLARIFICATION.
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4. THE CONTRACTOR HAS THE OPTION TO APPLY FOR AND UTILIZE ALTERNATIVE ABATEMENT METHODS THAT MAY REQUIRE A SITE SPECIFIC VARIANCE APPLICATION AND APPROVAL FROM THE NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL). IF A SITE SPECIFIC VARIANCE IS SOUGHT, THE APPLICATION SHALL BE REVIEWED AND ACCEPTED BY THE OWNERS ENVIRONMENTAL CONSULTANT AND THEN MUST BE SUBMITTED BY THE CONTRACTOR'S NYSDOL CERTIFIED ASBESTOS PROJECT DESIGNER IN ACCORDANCE WITH SECTION 028213-1.06.
5. PRIOR TO REGULATED ABATEMENT WORK AREA PREPARATION, THE ASBESTOS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, BUILDING OWNER AND FACILITY PERSONNEL REGARDING ANY AND ALL SECURITY AND EGRESS ISSUES THAT MAY APPLY TO THE OVERALL PROTECTION AND SAFETY OF THE BUILDING AND OCCUPANTS.
6. THIS PROJECT WILL BE SUBJECT TO THE OPERATING HOURS OF THE FACILITY OR OTHER OPERATING HOURS AS OTHERWISE APPROVED BY THE OWNER.
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HAZARDOUS MATERIAL NOTE:

1. LEAD-BASED PAINT (LBP) AND OTHER POTENTIALLY HAZARDOUS MATERIALS WERE IDENTIFIED DURING THE SURVEY CONDUCTED BY MATRIX NEW WORLD ENGINEERING, INC. (MATRIX). THE CONTRACTOR SHALL REFER TO THE, "HAZARDOUS MATERIAL BUILDING SURVEY REPORT," ISSUED APRIL 2014 AND PREPARED BY MATRIX (MATRIX REPORT) FOR SPECIFIC LOCATIONS AND COMPONENTS IMPACTED BY THE PROPOSED SCOPE OF WORK.
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US EPA/NY STATE ERIC GRATSON CHIMI CERTIFIED ASBESTOS PROJECT DESIGNER CERT NO. 92-1635

CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY10035

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM 3

PROJECT NUMBER:	44579
DESIGNED BY:	DW
DRAWN BY:	SH/YL
FIELD CHECK:	DW/EG
APPROVED:	EG

SHEET TITLE:
HAZARDOUS MATERIALS GENERAL NOTES AND TABLE BASEMENT PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: H-100-2A

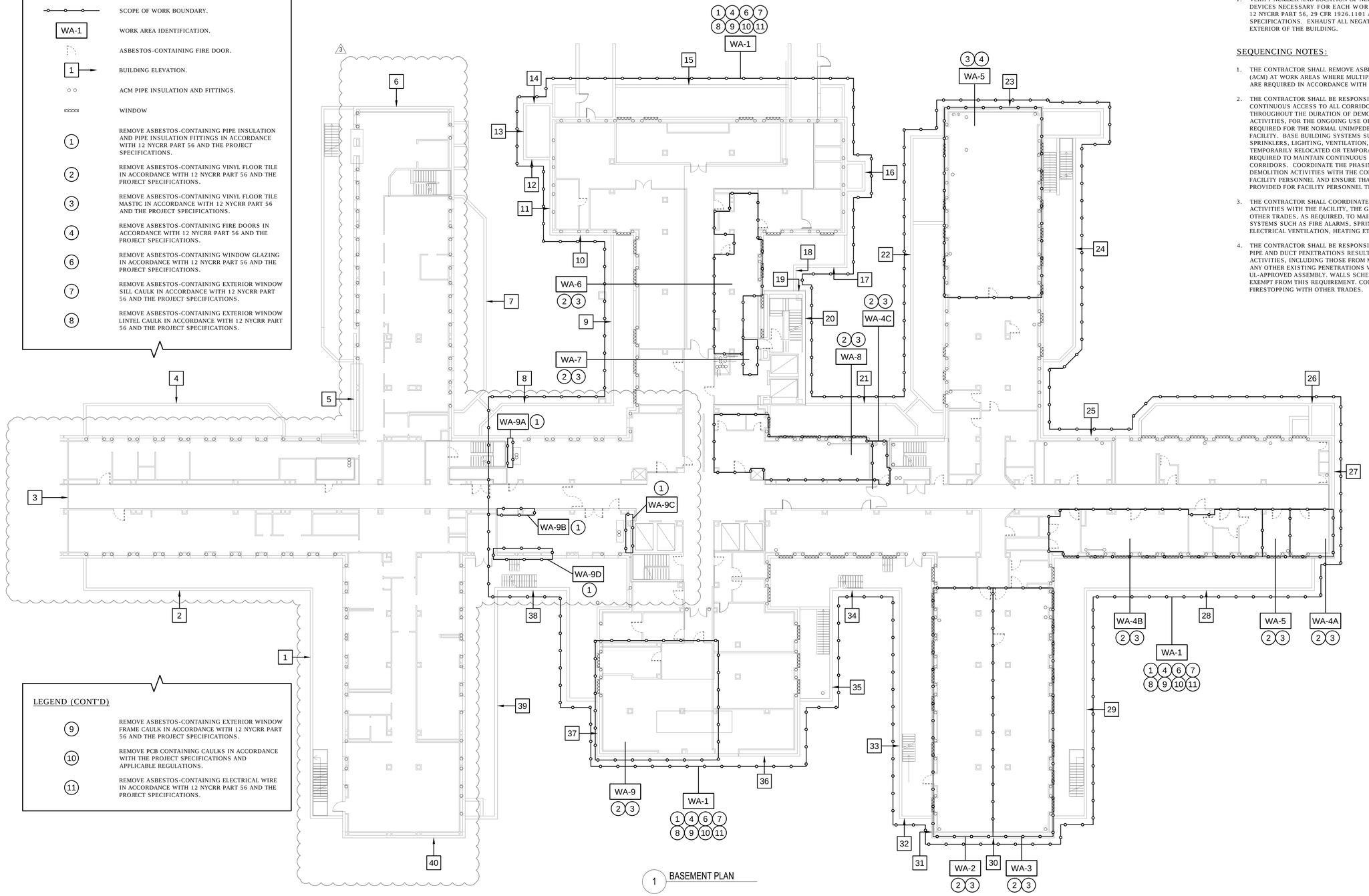
4/29/2014 12:14:17 PM

LEGEND

- SCOPE OF WORK BOUNDARY.
- WA-1 — WORK AREA IDENTIFICATION.
- ASBESTOS-CONTAINING FIRE DOOR.
- 1 — BUILDING ELEVATION.
- ACM PIPE INSULATION AND FITTINGS.
- WINDOW
- (1) REMOVE ASBESTOS-CONTAINING PIPE INSULATION AND PIPE INSULATION FITTINGS IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
- (2) REMOVE ASBESTOS-CONTAINING VINYL FLOOR TILE IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
- (3) REMOVE ASBESTOS-CONTAINING VINYL FLOOR TILE MASTIC IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
- (4) REMOVE ASBESTOS-CONTAINING FIRE DOORS IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
- (6) REMOVE ASBESTOS-CONTAINING WINDOW GLAZING IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
- (7) REMOVE ASBESTOS-CONTAINING EXTERIOR WINDOW SILL CAULK IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
- (8) REMOVE ASBESTOS-CONTAINING EXTERIOR WINDOW LINTEL CAULK IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.

LEGEND (CONT'D)

- (9) REMOVE ASBESTOS-CONTAINING EXTERIOR WINDOW FRAME CAULK IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
- (10) REMOVE PCB CONTAINING CAULKS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND APPLICABLE REGULATIONS.
- (11) REMOVE ASBESTOS-CONTAINING ELECTRICAL WIRE IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.



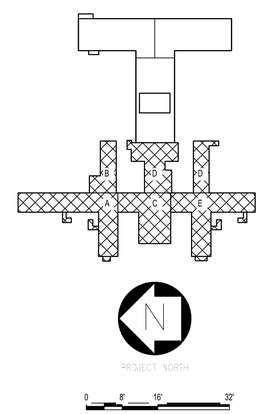
1 BASEMENT PLAN

NEGATIVE AIR UNIT NOTE:

1. VERIFY NUMBER AND LOCATION OF NEGATIVE AIR FILTRATION DEVICES NECESSARY FOR EACH WORK AREA IN ACCORDANCE WITH 12 NYCRR PART 56, 29 CFR 1926.1101 AND THE PROJECT SPECIFICATIONS. EXHAUST ALL NEGATIVE AIR UNITS TO THE EXTERIOR OF THE BUILDING.

SEQUENCING NOTES:

1. THE CONTRACTOR SHALL REMOVE ASBESTOS-CONTAINING MATERIAL (ACM) AT WORK AREAS WHERE MULTIPLE ABATEMENT ACTIVITIES ARE REQUIRED IN ACCORDANCE WITH 12 NYCRR PART 56-8 (B).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS ACCESS TO ALL CORRIDORS ON THE BASEMENT LEVEL THROUGHOUT THE DURATION OF DEMOLITION/ABATEMENT ACTIVITIES, FOR THE ONGOING USE OF THE FACILITY STAFF AS REQUIRED FOR THE NORMAL UNIMPEDED OPERATION OF THE FACILITY. BASE BUILDING SYSTEMS SUCH AS FIRE ALARMS, SPRINKLERS, LIGHTING, VENTILATION, HEATING ETCETERA SHALL BE TEMPORARILY RELOCATED OR TEMPORARILY SUPPLEMENTED AS REQUIRED TO MAINTAIN CONTINUOUS OPERATION OF ALL CORRIDORS. COORDINATE THE PHASING AND TIMING OF DEMOLITION ACTIVITIES WITH THE CONSTRUCTION MANAGER AND FACILITY PERSONNEL AND ENSURE THAT SUFFICIENT ACCESS IS PROVIDED FOR FACILITY PERSONNEL THROUGHOUT THE DEMOLITION.
3. THE CONTRACTOR SHALL COORDINATE DEMOLITION/ABATEMENT ACTIVITIES WITH THE FACILITY, THE GENERAL CONTRACTOR AND OTHER TRADES, AS REQUIRED, TO MAINTAIN BASE BUILDING SYSTEMS SUCH AS FIRE ALARMS, SPRINKLERS, LIGHTING, ELECTRICAL VENTILATION, HEATING ETC.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL PIPE AND DUCT PENETRATIONS RESULTING FROM DEMOLITION ACTIVITIES, INCLUDING THOSE FROM MOUNTINGS, HANGERS, AND ANY OTHER EXISTING PENETRATIONS WITH A TWO-HOUR RATED UL-APPROVED ASSEMBLY. WALLS SCHEDULED FOR DEMOLITION ARE EXEMPT FROM THIS REQUIREMENT. CONTRACTOR TO COORDINATE FIRESTOPPING WITH OTHER TRADES.



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PROJECT NUMBER:	44579
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APPROVED:	EG

SHEET TITLE:
HAZARDOUS MATERIALS BASEMENT PLAN

BUILDING NUMBER:	DRAWING NUMBER:
102	H-100-2B

SHEET 92 of 179

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WORK AREA	LOCATION	HOMOGENOUS AREA #	MATERIAL	ESTIMATED QUANTITY	REMOVAL METHOD	CONTAINMENT TYPE	APPLICABLE REGULATIONS	REMARKS
WA-10	FIRST FLOOR BUILDING AREA	HA-34	PIPE INSULATION AND FITTINGS	9,000 LF	INTERIOR FRIABLE	FULL CONTAINMENT	12 NYCRR PART 56-7-11	PIPE INSULATION IS ASSOCIATED WITH SUPPLY AND RETURN PIPING TO EACH INDIVIDUAL RADIATOR AND IS CONCEALED IN CHASES ON EITHER SIDE OF THE RADIATOR. ASSUME 24 LF PER RADIATOR PLUS 20 LF FOR A CONDENSATION LOOP THAT IS ON EVERY OTHER FLOOR.
		HA-61						
		HA-20, 101 & 119	FIRE DOOR INSULATION	102 UNITS	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
		--	ELECTRICAL WIRE INSULATION	5,000 LF[3]	INTERIOR FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE	12 NYCRR PART 56-7-11 (f)	WIRING IS LOCATED THROUGHOUT THE BASEMENT AREA ASSOCIATED WITH ELECTRICAL PANEL, FEEDERS, BRANCH CIRCUITS AND RECEPTACLES.
		HA-128	EXTERIOR WINDOW FRAME CAULK	1,194 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A MASONARY OPENING OF 22 LF PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-130	EXTERIOR WINDOW SILL CAULK	445 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A SIZE OF 5.75 LF PER SILL. LF PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-131	EXTERIOR WINDOW LINTEL CAULK	445 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A SIZE OF 5.75 LF PER LINTEL. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-114	WINDOW GLAZING	67 UNITS	INTERIOR NON-FRIABLE	WRAP SASH FROM EXTERIOR	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A SIZE OF 3 LF PER PER PANE OF GLASS AND 30 PANES PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-128	EXTERIOR WINDOW FRAME CAULK	440 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE B WINDOWS - ASSUME A MASONARY OPENING OF 18.75 LF PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-130	EXTERIOR WINDOW SILL CAULK	95 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE B WINDOWS - ASSUME A SIZE OF 4 LF PER SILL. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-131	EXTERIOR WINDOW LINTEL CAULK	95 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE B WINDOWS - ASSUME A SIZE OF 4 LF PER LINTEL. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		--	WINDOW GLAZING	23 UNITS	INTERIOR NON-FRIABLE	WRAP SASH FROM EXTERIOR	12 NYCRR PART 56 11.6	TYPE B WINDOWS - ASSUME A SIZE OF 3 LF PER PER PANE OF GLASS AND 30 PANES PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		--	DOUBLE FIRE DOORS	9 UNITS	INTERIOR FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE	12 NYCRR PART 56-7-11 (f)	CONTRACTOR TO TEST AND CONFIRM PRESENCE OF ACM IN DOUBLE FIRE DOORS PRIOR TO REMOVAL. CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-10A	FIRST FLOOR A WING	HA-20, 101 & 119	FIRE DOOR INSULATION	14 UNITS	INTERIOR FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE	12 NYCRR PART 56-7-11 (f)	CONTRACTOR TO TEST AND CONFIRM PRESENCE OF ACM IN DOUBLE FIRE DOORS PRIOR TO REMOVAL. CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-10A	FIRST FLOOR A WING	HA-20, 101 & 119	DOUBLE FIRE DOORS	8 UNITS				
WA-11	1ST FLOOR CONSTRUCTION AREA	HA-88[1]	FLOOR TILE AND MASTIC	611 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
		HA-89[1]						
		HA-6[1]						
WA-12	1ST FLOOR CONSTRUCTION AREA	HA-6[1]	FLOOR TILE AND MASTIC	210 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
		HA-88[1]						
		HA-89[1]						
WA-13	1ST FLOOR CONSTRUCTION AREA	HA-88[1]	FLOOR TILE AND MASTIC	155 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
		HA-89[1]						
WA-14	1ST FLOOR CENTER CORE AND B-WING	--	FLOOR TILE AND MASTIC	250 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	NO ACCESS WAS AVAILABE DURING SURVEY. CONTACTOR TO ASSUME AT LEAST TWO LAYERS OF ACM FLOOR TILE.
WA-15	1ST FLOOR ROOM 138	HA-88[1]	FLOOR TILE AND MASTIC	100 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
		HA-89[1]						
WA-16	1ST FLOOR ROOM 137	HA-88[1]	FLOOR TILE AND MASTIC	100 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
		HA-89[1]						
WA-17	CORRIDOR BETWEEN CENTER CORE AND B-WING	HA-73[1]	FLOOR TILE AND MASTIC	162 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
WA-18	1ST FLOOR ROOMS 140, 141, 143, 145, 147 & 149	HA-6[1]	FLOOR TILE AND MASTIC	680 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
		HA-88[1]						
		HA-89[1]						
WA-19	1ST FLOOR ROOM 138B	HA-6[1]	FLOOR TILE AND MASTIC	1,950 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF VINYL FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
		HA-88[1]						
		HA-89[1]						
			SUB-TOTAL	**16,874LF / 4,218 SF / 201 UNITS**				

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HAZARDOUS MATERIALS GENERAL NOTES AND TABLE FIRST FLOOR PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: H-101-2A

4/29/2014 12:14:17 PM

LEGEND

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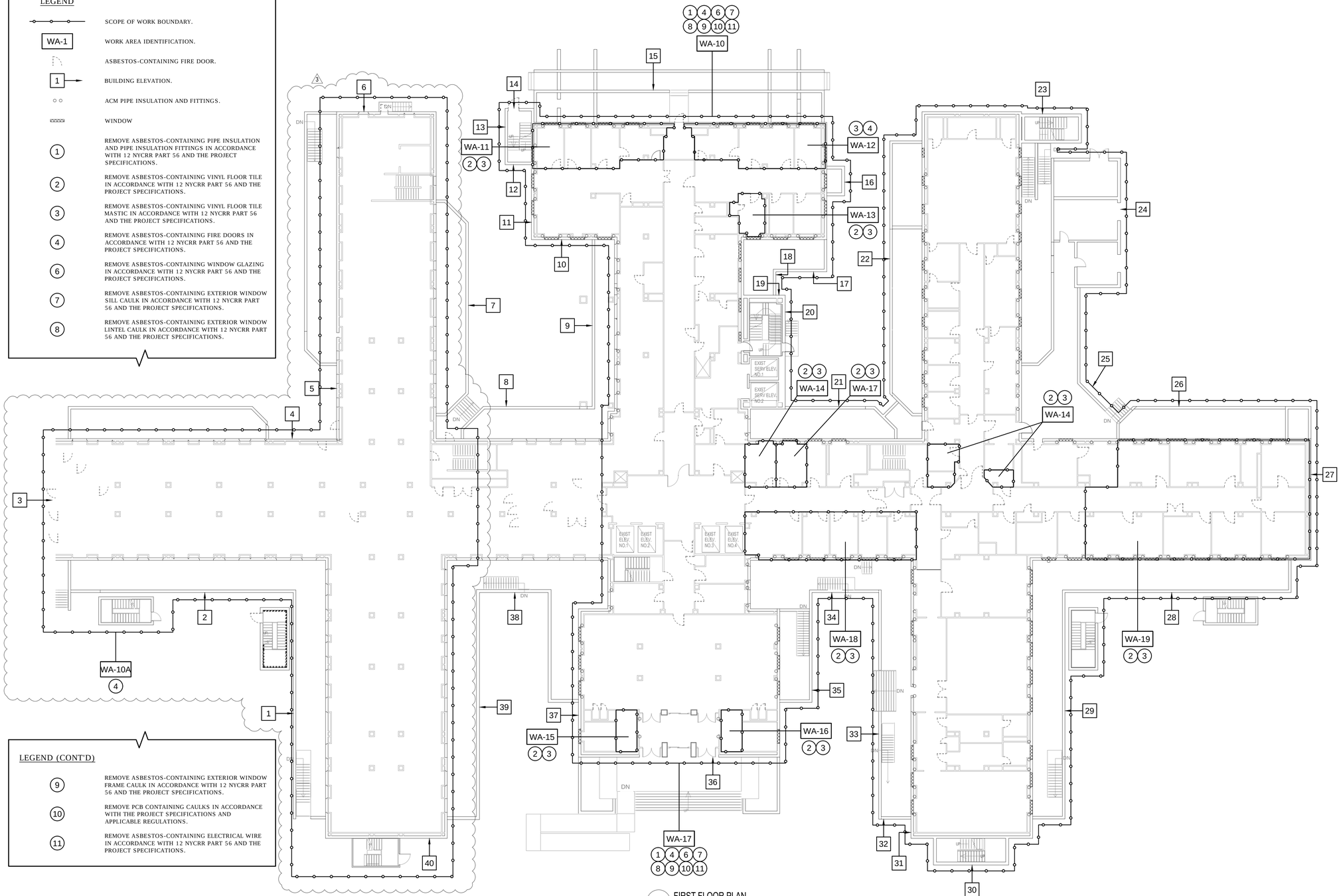


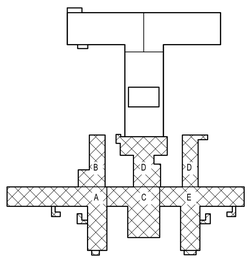
1 FIRST FLOOR PLAN

NEGATIVE AIR UNIT NOTE:

1. VERIFY NUMBER AND LOCATION OF NEGATIVE AIR FILTRATION DEVICES NECESSARY FOR EACH WORK AREA IN ACCORDANCE WITH 12 NYCRR PART 56, 29 CFR 1926.1101 AND THE PROJECT SPECIFICATIONS. EXHAUST ALL NEGATIVE AIR UNITS TO THE EXTERIOR OF THE BUILDING.

SEQUENCING NOTES:

1. THE CONTRACTOR SHALL REMOVE ASBESTOS-CONTAINING MATERIAL (ACM) AT WORK AREAS WHERE MULTIPLE ABATEMENT ACTIVITIES ARE REQUIRED IN ACCORDANCE WITH 12 NYCRR PART 56-8 (B).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS ACCESS TO ALL CORRIDORS ON THE BASEMENT LEVEL THROUGHOUT THE DURATION OF DEMOLITION/ABATEMENT ACTIVITIES, FOR THE ONGOING USE OF THE FACILITY STAFF AS REQUIRED FOR THE NORMAL UNIMPEDED OPERATION OF THE FACILITY. BASE BUILDING SYSTEMS SUCH AS FIRE ALARMS, SPRINKLERS, LIGHTING, VENTILATION, HEATING ETCETERA SHALL BE TEMPORARILY RELOCATED OR TEMPORARILY SUPPLEMENTED AS REQUIRED TO MAINTAIN CONTINUOUS OPERATION OF ALL CORRIDORS. COORDINATE THE PHASING AND TIMING OF DEMOLITION ACTIVITIES WITH THE CONSTRUCTION MANAGER AND FACILITY PERSONNEL AND ENSURE THAT SUFFICIENT ACCESS IS PROVIDED FOR FACILITY PERSONNEL THROUGHOUT THE DEMOLITION.
3. THE CONTRACTOR SHALL COORDINATE DEMOLITION/ABATEMENT ACTIVITIES WITH THE FACILITY, THE GENERAL CONTRACTOR AND OTHER TRADES, AS REQUIRED, TO MAINTAIN BASE BUILDING SYSTEMS SUCH AS FIRE ALARMS, SPRINKLERS, LIGHTING, ELECTRICAL VENTILATION, HEATING ETC.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL PIPE AND DUCT PENETRATIONS RESULTING FROM DEMOLITION ACTIVITIES, INCLUDING THOSE FROM MOUNTINGS, HANGERS, AND ANY OTHER EXISTING PENETRATIONS WITH A TWO-HOUR RATED UL-APPROVED ASSEMBLY. WALLS SCHEDULED FOR DEMOLITION ARE EXEMPT FROM THIS REQUIREMENT. CONTRACTOR TO COORDINATE FIRESTOPPING WITH OTHER TRADES.



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US EPA/NY STATE ERIC GRATSON GRANT CERTIFIED ASBESTOS PROJECT DESIGNER CERT NO. 93-1675

CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY10035

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM 3

PROJECT NUMBER:	44579
DESIGNED BY:	DW
DRAWN BY:	SH/YL
FIELD CHECK:	DW/EG
APPROVED:	EG

SHEET TITLE:

HAZARDOUS MATERIALS FIRST FLOOR PLAN

BUILDING NUMBER:	DRAWING NUMBER:
102	H-101-2B

SHEET 96 of 179

4/29/2014 12:14:17 PM

WORK AREA	LOCATION	HOMOGENOUS AREA #	MATERIAL	ESTIMATED QUANTITY	REMOVAL METHOD	CONTAINMENT TYPE	APPLICABLE REGULATIONS	REMARKS
WA-20	2ND FLOOR CENTER CORE AND CONSTRUCTION AREA	HA-34 HA-61	PIPE INSULATION AND FITTINGS	2,500 LF	INTERIOR FRIABLE	FULL CONTAINMENT	12 NYCRR PART 56-7-11	PIPE INSULATION IS ASSOCIATED WITH SUPPLY AND RETURN PIPING TO EACH INDIVIDUAL RADIATOR AND IS CONCEALED IN CHASES ON EITHER SIDE OF THE RADIATOR. ASSUME 24 LF PER RADIATOR PLUS 20 LF FOR A CONDENSATION LOOP THAT IS ON EVERY OTHER FLOOR.
		HA-20, 101 & 119	FIRE DOOR INSULATION	15 UNITS	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
		--	ELECTRICAL WIRE INSULATION	5,000 LF	INTERIOR FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE	12 NYCRR PART 56-7-11 (f)	WIRING IS LOCATED THROUGHOUT THE BASEMENT AREA ASSOCIATED WITH ELECTRICAL PANEL, FEEDERS, BRANCH CIRCUITS AND RECEPTACLES.
		HA-128	EXTERIOR WINDOW FRAME CAULK	510 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A MASONARY OPENING OF 22 LF PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-130	EXTERIOR WINDOW SILL CAULK	135 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A SIZE OF 5.75 LF PER SILL . REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		HA-131	EXTERIOR WINDOW LINTEL CAULK	135 LF	EXTERIOR NON-FRIABLE	EXTERIOR NON-FRABLE	12 NYCRR PART 56 11.6	TYPE A WINDOWS - ASSUME A SIZE OF 5.75 LF PER LINTEL. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		114	WINDOW GLAZING	23 UNITS	INTERIOR NON-FRIABLE	WRAP SASH FROM EXTERIOR	12 NYCRR PART 56 11.6	TYPE B WINDOWS - ASSUME A SIZE OF 3 LF PER PER PANE OF GLASS AND 30 PANES PER WINDOW. REFER TO WINDOW SCHEDULE FOR WINDOW REMOVAL DETAILS.
		--	DOUBLE FIRE DOORS	4 UNITS	INTERIOR FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE	12 NYCRR PART 56-7-11 (f)	CONTRACTOR TO TEST AND CONFIRM PRESENCE OF ACM IN DOUBLE FIRE DOORS PRIOR TO REMOVAL. CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-20A	2ND FLOOR STAIRWELL # 2	--	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-21	2ND FLOOR CONSTRUCTION AREA ROOM 231 AND ADJACENT CORRIDOR	HA-88[1] HA-89[1]	FLOOR TILE AND MASTIC	420 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-11.7	ONE LAYER OF FLOOR TILE AND ASSOCIATED MASTIC TO CONCRETE SUBSTRATE.
WA-22	2ND FLOOR CONSTRUCTION AREA ROOM 222	--	MIRROR GLUE DOTS	4 SF	INTERIOR NON-FRIABLE	REGULATED ABATEMENT WORK AREA	12 NYCRR PART 56-7.11(f)	GLUE DOTS ASSOCIATED WITH MIRRORS.
			SUB-TOTAL	**8,280LF / 424 SF / 43 UNITS**				

TABLE NOTES: [1] - Based on STV Survey Report [2] - Based on Warren Panzer Survey Report

GENERAL NOTES:

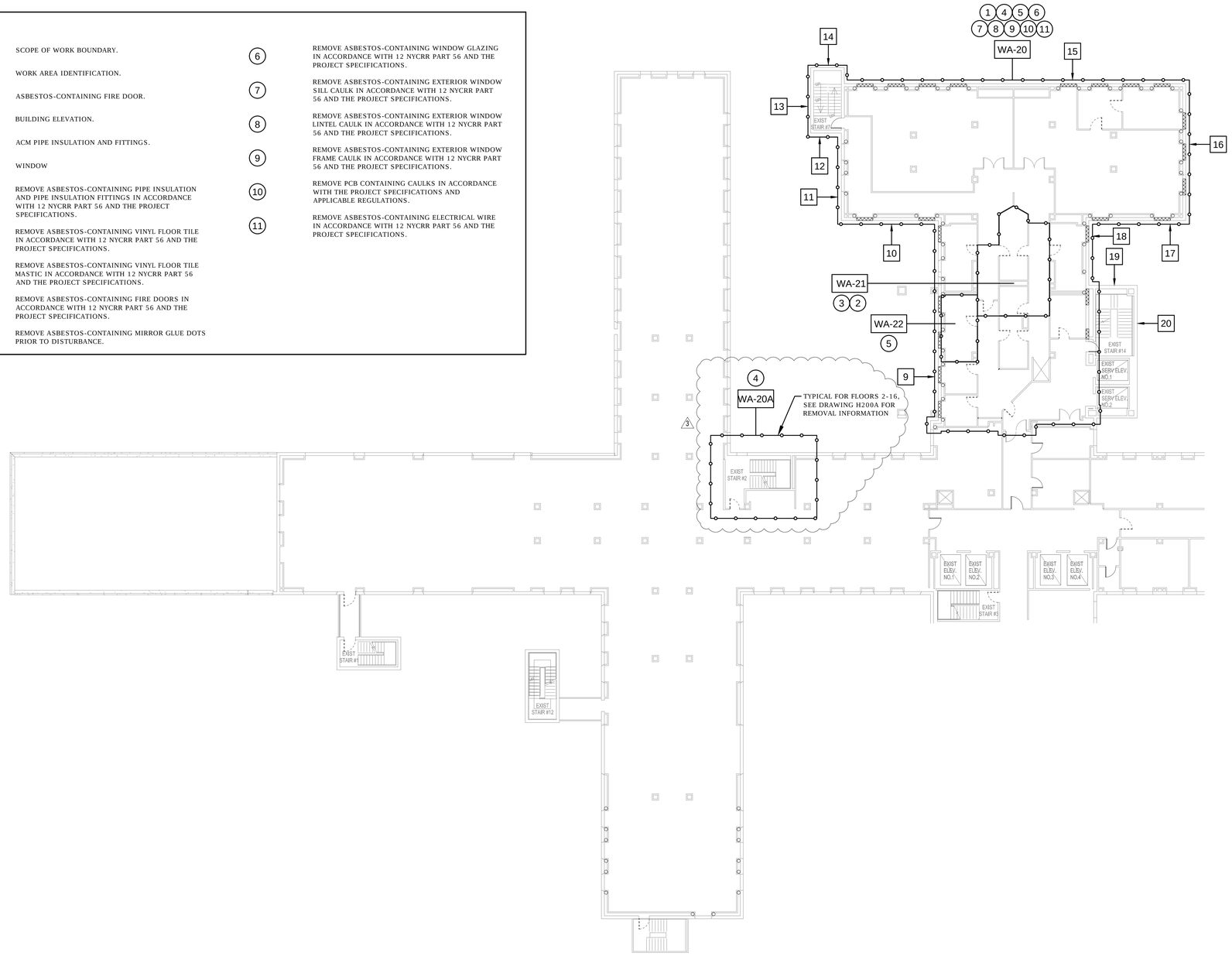
1. THE CONTRACT DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED FOR THE PURPOSE OF REPRESENTING THE SCOPE OF WORK AND ARE MEANT AS A GUIDE ONLY AND DO NOT LIMIT THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL HAZARDOUS MATERIALS AS SPECIFIED. IF SUSPECTED HAZARDOUS MATERIALS ARE IDENTIFIED BY THE CONTRACTOR THAT ARE NOT SHOWN IN THE DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE FOR CLARIFICATION.
2. DRAWINGS ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL VERIFY ALL JOB SITE CONDITIONS, DIMENSIONS AND QUANTITIES.
3. THE ABATEMENT CONTRACTOR IS REQUIRED TO PROVIDE A DETAILED ASBESTOS ABATEMENT WORK PLAN IN ACCORDANCE WITH SECTION 028213-1.08 (C) PRIOR TO MOBILIZATION.
4. THE CONTRACTOR HAS THE OPTION TO APPLY FOR AND UTILIZE ALTERNATIVE ABATEMENT METHODS THAT MAY REQUIRE A SITE SPECIFIC VARIANCE APPLICATION AND APPROVAL FROM THE NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL). IF A SITE SPECIFIC VARIANCE IS SOUGHT, THE APPLICATION SHALL BE REVIEWED AND ACCEPTED BY THE OWNERS ENVIRONMENTAL CONSULTANT AND THEN MUST BE SUBMITTED BY THE CONTRACTOR'S NYSDOL CERTIFIED ASBESTOS PROJECT DESIGNER IN ACCORDANCE WITH SECTION 028213-1.06.
5. PRIOR TO REGULATED ABATEMENT WORK AREA PREPARATION, THE ASBESTOS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, BUILDING OWNER AND FACILITY PERSONNEL REGARDING ANY AND ALL SECURITY AND EGRESS ISSUES THAT MAY APPLY TO THE OVERALL PROTECTION AND SAFETY OF THE BUILDING AND OCCUPANTS.
6. THIS PROJECT WILL BE SUBJECT TO THE OPERATING HOURS OF THE FACILITY OR OTHER OPERATING HOURS AS OTHERWISE APPROVED BY THE OWNER.
7. THE OWNER AND OWNER'S REPRESENTATIVES HAVE THE AUTHORITY TO STOP THE WORK AT ANY TIME IF WORK IS NOT CONDUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE REGULATIONS. THE STOPPAGE OF WORK SHALL CONTINUE UNTIL CONDITIONS HAVE BEEN CORRECTED TO THE SATISFACTION OF THE OWNER AND OWNER'S REPRESENTATIVES. STANDBY TIME TO RESOLVE PROBLEMS SHALL BE AT THE CONTRACTOR'S EXPENSE.

HAZARDOUS MATERIAL NOTE:

1. LEAD-BASED PAINT (LBP) AND OTHER POTENTIALLY HAZARDOUS MATERIALS WERE IDENTIFIED DURING THE SURVEY CONDUCTED BY MATRIX NEW WORLD ENGINEERING, INC. (MATRIX). THE CONTRACTOR SHALL REFER TO THE, "HAZARDOUS MATERIAL BUILDING SURVEY REPORT," ISSUED APRIL 2014 AND PREPARED BY MATRIX (MATRIX REPORT) FOR SPECIFIC LOCATIONS AND COMPONENTS IMPACTED BY THE PROPOSED SCOPE OF WORK.
2. BEFORE DEMOLITION COMMENCES CONTRACTOR SHALL DETERMINE ALL SYSTEMS AND EQUIPMENT TO BE DEMOLISHED THAT CONTAIN REFRIGERANT AND SHALL HAVE THE REFRIGERANT IN THOSE SYSTEMS PROPERLY RECLAIMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, RULES, REGULATIONS, AND CODES.

LEGEND

	SCOPE OF WORK BOUNDARY.
WA-1	WORK AREA IDENTIFICATION.
	ASBESTOS-CONTAINING FIRE DOOR.
1	BUILDING ELEVATION.
	ACM PIPE INSULATION AND FITTINGS.
	WINDOW
1	REMOVE ASBESTOS-CONTAINING PIPE INSULATION AND PIPE INSULATION FITTINGS IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
2	REMOVE ASBESTOS-CONTAINING VINYL FLOOR TILE IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
3	REMOVE ASBESTOS-CONTAINING VINYL FLOOR TILE MASTIC IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
4	REMOVE ASBESTOS-CONTAINING FIRE DOORS IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
5	REMOVE ASBESTOS-CONTAINING MIRROR GLUE DOTS PRIOR TO DISTURBANCE.
6	REMOVE ASBESTOS-CONTAINING WINDOW GLAZING IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
7	REMOVE ASBESTOS-CONTAINING EXTERIOR WINDOW SILL CAULK IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
8	REMOVE ASBESTOS-CONTAINING EXTERIOR WINDOW LINTEL CAULK IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
9	REMOVE ASBESTOS-CONTAINING EXTERIOR WINDOW FRAME CAULK IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.
10	REMOVE PCB CONTAINING CAULKS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND APPLICABLE REGULATIONS.
11	REMOVE ASBESTOS-CONTAINING ELECTRICAL WIRE IN ACCORDANCE WITH 12 NYCRR PART 56 AND THE PROJECT SPECIFICATIONS.



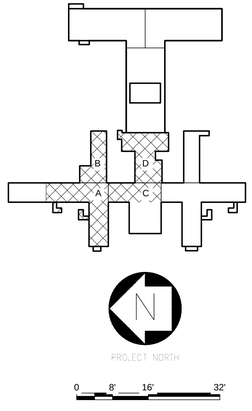
1 SECOND FLOOR PLAN

NEGATIVE AIR UNIT NOTE:

1. VERIFY NUMBER AND LOCATION OF NEGATIVE AIR FILTRATION DEVICES NECESSARY FOR EACH WORK AREA IN ACCORDANCE WITH 12 NYCRR PART 56, 29 CFR 1926.1101 AND THE PROJECT SPECIFICATIONS. EXHAUST ALL NEGATIVE AIR UNITS TO THE EXTERIOR OF THE BUILDING.

SEQUENCING NOTES:

1. THE CONTRACTOR SHALL REMOVE ASBESTOS-CONTAINING MATERIAL (ACM) AT WORK AREAS WHERE MULTIPLE ABATEMENT ACTIVITIES ARE REQUIRED IN ACCORDANCE WITH 12 NYCRR PART 56-8 (B).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS ACCESS TO ALL CORRIDORS ON THE BASEMENT LEVEL THROUGHOUT THE DURATION OF DEMOLITION/ABATEMENT ACTIVITIES, FOR THE ONGOING USE OF THE FACILITY STAFF AS REQUIRED FOR THE NORMAL UNIMPEDED OPERATION OF THE FACILITY. BASE BUILDING SYSTEMS SUCH AS FIRE ALARMS, SPRINKLERS, LIGHTING, VENTILATION, HEATING ETCETERA SHALL BE TEMPORARILY RELOCATED OR TEMPORARILY SUPPLEMENTED AS REQUIRED TO MAINTAIN CONTINUOUS OPERATION OF ALL CORRIDORS. COORDINATE THE PHASING AND TIMING OF DEMOLITION ACTIVITIES WITH THE CONSTRUCTION MANAGER AND FACILITY PERSONNEL AND ENSURE THAT SUFFICIENT ACCESS IS PROVIDED FOR FACILITY PERSONNEL THROUGHOUT THE DEMOLITION.
3. THE CONTRACTOR SHALL COORDINATE DEMOLITION/ABATEMENT ACTIVITIES WITH THE FACILITY, THE GENERAL CONTRACTOR AND OTHER TRADES, AS REQUIRED, TO MAINTAIN BASE BUILDING SYSTEMS SUCH AS FIRE ALARMS, SPRINKLERS, LIGHTING, ELECTRICAL VENTILATION, HEATING ETC.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL PIPE AND DUCT PENETRATIONS RESULTING FROM DEMOLITION ACTIVITIES, INCLUDING THOSE FROM MOUNTINGS, HANGERS, AND ANY OTHER EXISTING PENETRATIONS WITH A TWO-HOUR RATED UL-APPROVED ASSEMBLY. WALLS SCHEDULED FOR DEMOLITION ARE EXEMPT FROM THIS REQUIREMENT. CONTRACTOR TO COORDINATE FIRESTOPPING WITH OTHER TRADES.



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US EPA/NY STATE ERIC GRATSON, CEHDM CERT NO. 92-1625 CERTIFIED ASBESTOS PROJECT DESIGNER

CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY10035

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM 3

PROJECT NUMBER:	44579
DESIGNED BY:	DW
DRAWN BY:	SH/YL
FIELD CHECK:	DW/EG
APPROVED:	EG

SHEET TITLE:
HAZARDOUS MATERIALS SECOND FLOOR PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: H-102-2B

4/29/2014 12:14:17 PM

3

WORK AREA	LOCATION	HOMOGENOUS AREA #	MATERIAL	ESTIMATED QUANTITY	REMOVAL METHOD	CONTAINMENT TYPE	APPLICABLE REGULATIONS	REMARKS
WA-23A	THIRD FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23B	FORTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23C	FIFTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23D	SIXTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23E	SEVENTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23F	EIGHTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23G	NINTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23H	TENTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23I	ELEVENTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23J	TWELVETH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23K	THIRTEENTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23L	FORTEENTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23M	FIFTHTEENTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
WA-23N	SIXTEENTH FLOOR STAIRWELL # 2	HA-20, 101 & 119	FIRE DOOR INSULATION	1 UNIT	INTERIOR NON-FRIABLE	NEGATIVE PRESSURE TENT ENCLOSURE OR INTACT REMOVAL WITH VARIANCE	12 NYCRR PART 56-7-11 (c) OR 7.11(f)	CONTRACTOR HAS THE OPTION TO APPLY FOR A NYSDOL SITE SPECIFIC VARIANCE TO ALLOW FOR "INTACT" COMPONENT REMOVAL FOR INTERIOR NON-FRIABLE MATERIAL REMOVALS IN ACCORDANCE WITH SECTION 028213-1.06.
			SUB-TOTAL	14 UNITS				

GENERAL NOTES:

1. THE CONTRACT DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED FOR THE PURPOSE OF REPRESENTING THE SCOPE OF WORK AND ARE MEANT AS A GUIDE ONLY AND DO NOT LIMIT THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL HAZARDOUS MATERIALS AS SPECIFIED. IF SUSPECTED HAZARDOUS MATERIALS ARE IDENTIFIED BY THE CONTRACTOR THAT ARE NOT SHOWN IN THE DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE FOR CLARIFICATION.
2. DRAWINGS ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL VERIFY ALL JOB SITE CONDITIONS, DIMENSIONS AND QUANTITIES.
3. THE ABATEMENT CONTRACTOR IS REQUIRED TO PROVIDE A DETAILED ASBESTOS ABATEMENT WORK PLAN IN ACCORDANCE WITH SECTION 028213-1.08 (C) PRIOR TO MOBILIZATION.
4. THE CONTRACTOR HAS THE OPTION TO APPLY FOR AND UTILIZE ALTERNATIVE ABATEMENT METHODS THAT MAY REQUIRE A SITE SPECIFIC VARIANCE APPLICATION AND APPROVAL FROM THE NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL). IF A SITE SPECIFIC VARIANCE IS SOUGHT, THE APPLICATION SHALL BE REVIEWED AND ACCEPTED BY THE OWNERS ENVIRONMENTAL CONSULTANT AND THEN MUST BE SUBMITTED BY THE CONTRACTOR'S NYSDOL CERTIFIED ASBESTOS PROJECT DESIGNER IN ACCORDANCE WITH SECTION 028213-1.06.
5. PRIOR TO REGULATED ABATEMENT WORK AREA PREPARATION, THE ASBESTOS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, BUILDING OWNER AND FACILITY PERSONNEL REGARDING ANY AND ALL SECURITY AND EGRESS ISSUES THAT MAY APPLY TO THE OVERALL PROTECTION AND SAFETY OF THE BUILDING AND OCCUPANTS.
6. THIS PROJECT WILL BE SUBJECT TO THE OPERATING HOURS OF THE FACILITY OR OTHER OPERATING HOURS AS OTHERWISE APPROVED BY THE OWNER.
7. THE OWNER AND OWNER'S REPRESENTATIVES HAVE THE AUTHORITY TO STOP THE WORK AT ANY TIME IF WORK IS NOT CONDUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE REGULATIONS. THE STOPPAGE OF WORK SHALL CONTINUE UNTIL CONDITIONS HAVE BEEN CORRECTED TO THE SATISFACTION OF THE OWNER AND OWNER'S REPRESENTATIVES. STANDBY TIME TO RESOLVE PROBLEMS SHALL BE AT THE CONTRACTOR'S EXPENSE.

HAZARDOUS MATERIAL NOTE:

1. LEAD-BASED PAINT (LBP) AND OTHER POTENTIALLY HAZARDOUS MATERIALS WERE IDENTIFIED DURING THE SURVEY CONDUCTED BY MATRIX NEW WORLD ENGINEERING, INC. (MATRIX). THE CONTRACTOR SHALL REFER TO THE, "HAZARDOUS MATERIAL BUILDING SURVEY REPORT," ISSUED APRIL 2014 AND PREPARED BY MATRIX (MATRIX REPORT) FOR SPECIFIC LOCATIONS AND COMPONENTS IMPACTED BY THE PROPOSED SCOPE OF WORK.
2. BEFORE DEMOLITION COMMENCES CONTRACTOR SHALL DETERMINE ALL SYSTEMS AND EQUIPMENT TO BE DEMOLISHED THAT CONTAIN REFRIGERANT AND SHALL HAVE THE REFRIGERANT IN THOSE SYSTEMS PROPERLY RECLAIMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, RULES, REGULATIONS, AND CODES.

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.

US EPA NY STATE ERIC GRATSON GRANT CERTIFIED ASBESTOS PROJECT DESIGNER CERT NO. 93-1675

CONTRACT:
CONSTRUCTION

TITLE: PHASE 1 WORK:
DEMOLITION, ASBESTOS REMOVAL
STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

LOCATION: BUILDING No. 102
MANHATTAN FORENSIC RELOCATION
600 EAST 125TH STREET WARDS ISLAND, NY10035

CLIENT:
NYS OFFICE OF MENTAL HEALTH

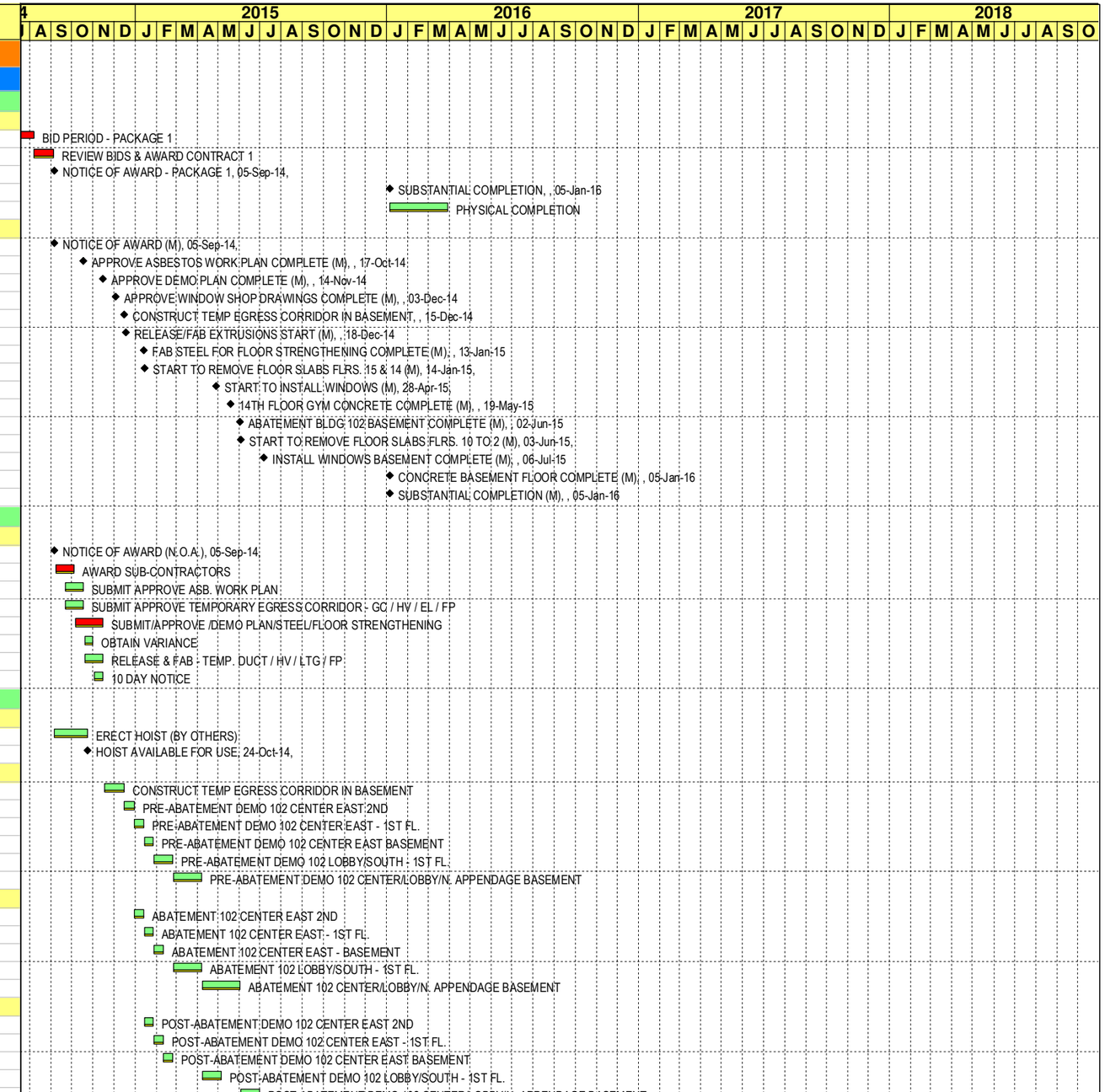
MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM 3

PROJECT NUMBER:	44579
DESIGNED BY:	DW
DRAWN BY:	SH/YL
FIELD CHECK:	DW/EG
APPROVED:	EG

SHEET TITLE:
HAZARDOUS MATERIALS STAIRWAY DOOR SCHEDULE

BUILDING NUMBER: 102
DRAWING NUMBER: H-200-A

Activity ID	Activity Name	Orig. Dur.	Start	Finish
MANHATTAN PSYCHIATRIC CENTER PROJECTS 44578 & 44579				
PACKAGE No 1 - 44579				
CONTRACT DATES				
BID PACKAGE No. 1				
BA010	BID PERIOD - PACKAGE 1	30	19-Jun-14 A	06-Aug-14
BA015	REVIEW BIDS & AWARD CONTRACT 1	20	07-Aug-14	04-Sep-14
BA016	NOTICE OF AWARD - PACKAGE 1	0	05-Sep-14	
P1-3700	SUBSTANTIAL COMPLETION	0		05-Jan-16
P1-3710	PHYSICAL COMPLETION	60	06-Jan-16	29-Mar-16
MILESTONES				
P1-M1000	NOTICE OF AWARD (M)	0	05-Sep-14	
P1-M1150	APPROVE ASBESTOS WORK PLAN COMPLETE (M)	0		17-Oct-14
P1-M4000	APPROVE DEMO PLAN COMPLETE (M)	0		14-Nov-14
P1-M3450	APPROVE WINDOW SHOP DRAWINGS COMPLETE (M)	0		03-Dec-14
P1-4024	CONSTRUCT TEMP EGRESS CORRIDOR IN BASEMENT	0		15-Dec-14
P1-M3490	RELEASE/FAB EXTRUSIONS START (M)	0		18-Dec-14
P1-M1060	FAB STEEL FOR FLOOR STRENGTHENING COMPLETE (M)	0		13-Jan-15
P1-M1065	START TO REMOVE FLOOR SLABS FLRS. 15 & 14 (M)	0	14-Jan-15	
P1-M3600	START TO INSTALL WINDOWS (M)	0	28-Apr-15	
P1-M1080	14TH FLOOR GYM CONCRETE COMPLETE (M)	0		19-May-15
P1-M3270	ABATEMENT BLDG 102 BASEMENT COMPLETE (M)	0		02-Jun-15
P1-M1105	START TO REMOVE FLOOR SLABS FLRS. 10 TO 2 (M)	0	03-Jun-15	
P1-M3612	INSTALL WINDOWS BASEMENT COMPLETE (M)	0		06-Jul-15
P1-M1175	CONCRETE BASEMENT FLOOR COMPLETE (M)	0		05-Jan-16
P1-M3700	SUBSTANTIAL COMPLETION (M)	0		05-Jan-16
PRE-CONSTRUCTION PACKAGE No. 1				
SUBMITTALS & PERMITS				
P1-1000	NOTICE OF AWARD (N.O.A.)	0	05-Sep-14	
P1-1140	AWARD SUB-CONTRACTORS	20	08-Sep-14	03-Oct-14
P1-1150	SUBMIT APPROVE ASB. WORK PLAN	20	22-Sep-14	17-Oct-14
P1-4021	SUBMIT APPROVE TEMPORARY EGRESS CORRIDOR - GC / HV / EL / FP	20	22-Sep-14	17-Oct-14
P1-4000	SUBMIT/APPROVE /DEMO PLAN/STEEL/FLOOR STRENGTHENING	30	06-Oct-14	14-Nov-14
P1-1160	OBTAIN VARIANCE	10	20-Oct-14	31-Oct-14
P1-4022	RELEASE & FAB - TEMP. DUCT / HV / LTG / FP	20	20-Oct-14	14-Nov-14
P1-1170	10 DAY NOTICE	10	03-Nov-14	14-Nov-14
ABATEMENT / GENERAL DEMOLITION				
HOIST				
P1-4010	ERECT HOIST (BY OTHERS)	35	05-Sep-14	23-Oct-14
P1-4020	HOIST AVAILABLE FOR USE	0	24-Oct-14	
PRE-ABATEMENT				
P1-4023	CONSTRUCT TEMP EGRESS CORRIDOR IN BASEMENT	20	17-Nov-14	15-Dec-14
P1-3240	PRE-ABATEMENT DEMO 102 CENTER EAST 2ND	10	16-Dec-14	30-Dec-14
P1-3140	PRE-ABATEMENT DEMO 102 CENTER EAST - 1ST FL.	10	31-Dec-14	13-Jan-15
P1-3550	PRE-ABATEMENT DEMO 102 CENTER EAST BASEMENT	10	14-Jan-15	27-Jan-15
P1-3150	PRE-ABATEMENT DEMO 102 LOBBY/SOUTH - 1ST FL.	20	28-Jan-15	24-Feb-15
P1-3560	PRE-ABATEMENT DEMO 102 CENTER/LOBBY/N. APPENDAGE BASEMENT	30	25-Feb-15	07-Apr-15
ABATEMENT / GENERAL DEMOLITION				
P1-3290	ABATEMENT 102 CENTER EAST 2ND	10	31-Dec-14	13-Jan-15
P1-3310	ABATEMENT 102 CENTER EAST - 1ST FL.	10	14-Jan-15	27-Jan-15
P1-3250	ABATEMENT 102 CENTER EAST - BASEMENT	10	28-Jan-15	10-Feb-15
P1-3300	ABATEMENT 102 LOBBY/SOUTH - 1ST FL.	30	25-Feb-15	07-Apr-15
P1-3270	ABATEMENT 102 CENTER/LOBBY/N. APPENDAGE BASEMENT	40	08-Apr-15	02-Jun-15
POST- ABATEMENT				
P1-3370	POST-ABATEMENT DEMO 102 CENTER EAST 2ND	10	14-Jan-15	27-Jan-15
P1-3420	POST-ABATEMENT DEMO 102 CENTER EAST - 1ST FL.	10	28-Jan-15	10-Feb-15
P1-3430	POST-ABATEMENT DEMO 102 CENTER EAST BASEMENT	10	11-Feb-15	24-Feb-15
P1-3410	POST-ABATEMENT DEMO 102 LOBBY/SOUTH - 1ST FL.	20	08-Apr-15	05-May-15
P1-3400	POST-ABATEMENT DEMO 102 CENTER/LOBBY/N. APPENDAGE BASEMENT	20	03-Jun-15	30-Jun-15



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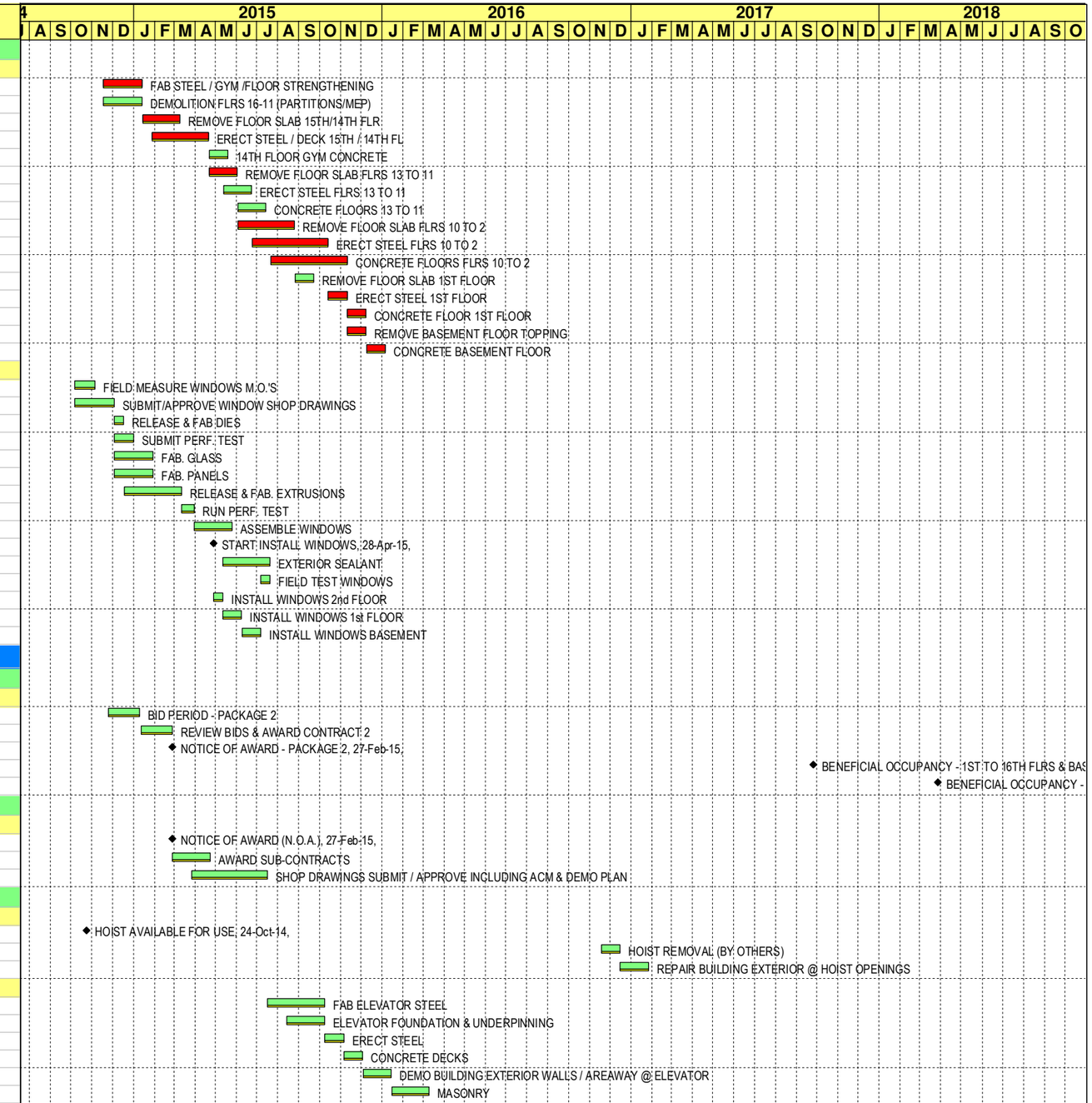
Manhattan Forensic Relocation Projects - 44578 / 44579

BID SCHEDULE

REVISED - JULY 15, 2014

Activity ID	Activity Name	Orig. Dur.	Start	Finish
CONSTRUCTION				
FLOOR DEMOLITION / FLOOR STRENGHTING				
P1-1060	FAB STEEL / GYM /FLOOR STRENGTHENING	40	17-Nov-14	13-Jan-15
P1-1040	DEMOLITION FLRS 16-11 (PARTITIONS/MEP)	40	17-Nov-14	13-Jan-15
P1-1065	REMOVE FLOOR SLAB 15TH/14TH FLR	40	14-Jan-15	10-Mar-15
P1-1070	ERECT STEEL / DECK 15TH / 14TH FL	60	28-Jan-15	21-Apr-15
P1-1080	14TH FLOOR GYM CONCRETE	20	22-Apr-15	19-May-15
P1-1100	REMOVE FLOOR SLAB FLRS 13 TO 11	30	22-Apr-15	02-Jun-15
P1-1110	ERECT STEEL FLRS 13 TO 11	30	13-May-15	23-Jun-15
P1-1120	CONCRETE FLOORS 13 TO 11	30	03-Jun-15	14-Jul-15
P1-1105	REMOVE FLOOR SLAB FLRS 10 TO 2	60	03-Jun-15	25-Aug-15
P1-1115	ERECT STEEL FLRS 10 TO 2	80	24-Jun-15	13-Oct-15
P1-1125	CONCRETE FLOORS FLRS 10 TO 2	80	22-Jul-15	10-Nov-15
P1-1135	REMOVE FLOOR SLAB 1ST FLOOR	20	26-Aug-15	22-Sep-15
P1-1145	ERECT STEEL 1ST FLOOR	20	14-Oct-15	10-Nov-15
P1-1155	CONCRETE FLOOR 1ST FLOOR	20	11-Nov-15	08-Dec-15
P1-1165	REMOVE BASEMENT FLOOR TOPPING	20	11-Nov-15	08-Dec-15
P1-1175	CONCRETE BASEMENT FLOOR	20	09-Dec-15	05-Jan-16
WINDOWS				
P1-3460	FIELD MEASURE WINDOWS M.O.'S	23	06-Oct-14	05-Nov-14
P1-3450	SUBMIT/APPROVE WINDOW SHOP DRAWINGS	42	06-Oct-14	03-Dec-14
P1-3480	RELEASE & FAB DIES	10	04-Dec-14	17-Dec-14
P1-3470	SUBMIT PERF. TEST	20	04-Dec-14	01-Jan-15
P1-3500	FAB. GLASS	40	04-Dec-14	29-Jan-15
P1-3510	FAB. PANELS	40	04-Dec-14	29-Jan-15
P1-3490	RELEASE & FAB. EXTRUSIONS	60	18-Dec-14	12-Mar-15
P1-3520	RUN PERF. TEST	12	13-Mar-15	30-Mar-15
P1-3530	ASSEMBLE WINDOWS	40	31-Mar-15	25-May-15
P1-3600	START INSTALL WINDOWS	0	28-Apr-15	
P1-3613	EXTERIOR SEALANT	50	12-May-15	20-Jul-15
P1-3614	FIELD TEST WINDOWS	10	07-Jul-15	20-Jul-15
P1-3610	INSTALL WINDOWS 2nd FLOOR	10	28-Apr-15	11-May-15
P1-3611	INSTALL WINDOWS 1st FLOOR	20	12-May-15	08-Jun-15
P1-3612	INSTALL WINDOWS BASEMENT	20	09-Jun-15	06-Jul-15
PACKAGE No 2 - 44578				
CONTRACT DATES				
BID PACKAGE No. 2				
BA030	BID PERIOD - PACKAGE 2	30	25-Nov-14	09-Jan-15
BA040	REVIEW BIDS & AWARD CONTRACT 2	34	12-Jan-15	26-Feb-15
BA045	NOTICE OF AWARD - PACKAGE 2	0	27-Feb-15	
P2-2120	BENEFICIAL OCCUPANCY - 1ST TO 16TH FLRS & BASEMENT PHARMACY	0		26-Sep-17
P2-2280	BENEFICIAL OCCUPANCY - BASEMENT	0		27-Mar-18
PRE-CONSTRUCTION PACKAGE No. 2				
SUBMITTALS & PERMITS				
P2-1000	NOTICE OF AWARD (N.O.A.)	0	27-Feb-15	
P2-1010	AWARD SUB-CONTRACTS	40	27-Feb-15	23-Apr-15
P2-1020	SHOP DRAWINGS SUBMIT / APPROVE INCLUDING ACM & DEMO PLAN	80	27-Mar-15	16-Jul-15
TEMPORARY HOIST, ELEVATORS, STAIR # 12				
TEMPORARY HOIST				
P2-1030	HOIST AVAILABLE FOR USE	0	24-Oct-14	
P2-1045	HOIST REMOVAL (BY OTHERS)	20	18-Nov-16	15-Dec-16
P2-1036	REPAIR BUILDING EXTERIOR @ HOIST OPENINGS	30	16-Dec-16	26-Jan-17
ELEVATORS				
P2-1170	FAB ELEVATOR STEEL	60	17-Jul-15	08-Oct-15
P2-1160	ELEVATOR FOUNDATION & UNDERPINNING	40	14-Aug-15	08-Oct-15
P2-1180	ERECT STEEL	20	09-Oct-15	05-Nov-15
P2-1190	CONCRETE DECKS	20	06-Nov-15	03-Dec-15
P2-1150	DEMO BUILDING EXTERIOR WALLS / AREAWAY @ ELEVATOR	30	04-Dec-15	14-Jan-16
P2-1200	MASONRY	40	15-Jan-16	10-Mar-16



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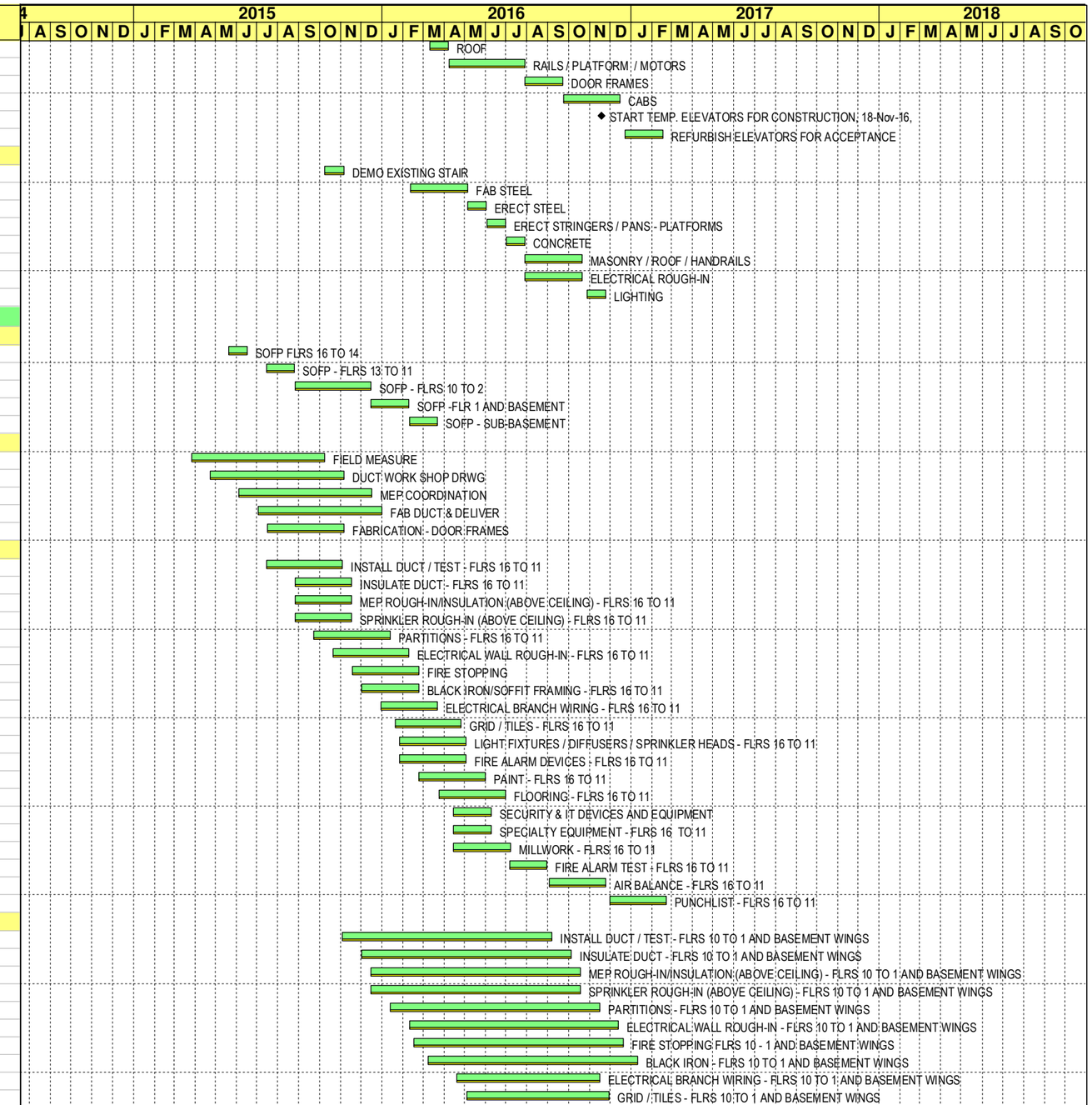
REVISED - JULY 15, 2014

Activity ID	Activity Name	Orig. Dur.	Start	Finish
P2-1210	ROOF	20	11-Mar-16	07-Apr-16
P2-1220	RAILS / PLATFORM / MOTORS	80	08-Apr-16	28-Jul-16
P2-1230	DOOR FRAMES	40	29-Jul-16	22-Sep-16
P2-1240	CABS	60	23-Sep-16	15-Dec-16
P2-1245	START TEMP. ELEVATORS FOR CONSTRUCTION	0	18-Nov-16	
P2-1247	REFURBISH ELEVATORS FOR ACCEPTANCE	40	23-Dec-16	16-Feb-17
STAIRS				
P2-1250	DEMO EXISTING STAIR	20	09-Oct-15	05-Nov-15
P2-1260	FAB STEEL	60	12-Feb-16	05-May-16
P2-1270	ERECT STEEL	20	06-May-16	02-Jun-16
P2-1280	ERECT STRINGERS / PANS - PLATFORMS	20	03-Jun-16	30-Jun-16
P2-1290	CONCRETE	20	01-Jul-16	28-Jul-16
P2-1300	MASONRY / ROOF / HANDRAILS	60	29-Jul-16	20-Oct-16
P2-1310	ELECTRICAL ROUGH-IN	60	29-Jul-16	20-Oct-16
P2-1320	LIGHTING	20	28-Oct-16	24-Nov-16
A-SIDE MEP & INTERIORS				
SPRAY ON FIRE PROOFING				
P2-1085	SOFP FLRS 16 TO 14	20	20-May-15	16-Jun-15
P2-1130	SOFP - FLRS 13 TO 11	30	15-Jul-15	25-Aug-15
P2-1135	SOFP - FLRS 10 TO 2	80	26-Aug-15	15-Dec-15
P2-1145	SOFP -FLR 1 AND BASEMENT	40	16-Dec-15	09-Feb-16
P2-1146	SOFP - SUB-BASEMENT	30	10-Feb-16	22-Mar-16
GENERAL				
P2-1330	FIELD MEASURE	140	27-Mar-15	08-Oct-15
P2-1335	DUCT WORK SHOP DRWG	140	24-Apr-15	05-Nov-15
P2-1340	MEP COORDINATION	140	05-Jun-15	17-Dec-15
P2-1350	FAB DUCT & DELIVER	130	03-Jul-15	31-Dec-15
P2-1355	FABRICATION - DOOR FRAMES	80	17-Jul-15	05-Nov-15
FLOORS 16 to 11				
P2-1360	INSTALL DUCT / TEST - FLRS 16 TO 11	80	15-Jul-15	03-Nov-15
P2-1370	INSULATE DUCT - FLRS 16 TO 11	60	26-Aug-15	17-Nov-15
P2-1380	MEP ROUGH-IN/INSULATION (ABOVE CEILING) - FLRS 16 TO 11	60	26-Aug-15	17-Nov-15
P2-1390	SPRINKLER ROUGH-IN (ABOVE CEILING) - FLRS 16 TO 11	60	26-Aug-15	17-Nov-15
P2-1410	PARTITIONS - FLRS 16 TO 11	80	23-Sep-15	12-Jan-16
P2-1420	ELECTRICAL WALL ROUGH-IN - FLRS 16 TO 11	80	21-Oct-15	09-Feb-16
P2-1445	FIRE STOPPING	70	18-Nov-15	23-Feb-16
P2-1430	BLACK IRON/SOFFIT FRAMING - FLRS 16 TO 11	60	02-Dec-15	23-Feb-16
P2-1440	ELECTRICAL BRANCH WIRING - FLRS 16 TO 11	60	30-Dec-15	22-Mar-16
P2-1450	GRID / TILES - FLRS 16 TO 11	70	20-Jan-16	26-Apr-16
P2-1460	LIGHT FIXTURES / DIFFUSERS / SPRINKLER HEADS - FLRS 16 TO 11	70	27-Jan-16	03-May-16
P2-1500	FIRE ALARM DEVICES - FLRS 16 TO 11	70	27-Jan-16	03-May-16
P2-1480	PAINT - FLRS 16 TO 11	70	24-Feb-16	31-May-16
P2-1490	FLOORING - FLRS 16 TO 11	70	25-Mar-16	30-Jun-16
P2-1535	SECURITY & IT DEVICES AND EQUIPMENT	40	15-Apr-16	09-Jun-16
P2-1530	SPECIALTY EQUIPMENT - FLRS 16 TO 11	40	15-Apr-16	09-Jun-16
P2-1520	MILLWORK - FLRS 16 TO 11	60	15-Apr-16	07-Jul-16
P2-1510	FIRE ALARM TEST - FLRS 16 TO 11	40	06-Jul-16	30-Aug-16
P2-1470	AIR BALANCE - FLRS 16 TO 11	60	02-Sep-16	24-Nov-16
P2-1540	PUNCHLIST - FLRS 16 TO 11	60	30-Nov-16	21-Feb-17
FLOORS 10 to 1 AND BASEMENT WINGS				
P2-2281	INSTALL DUCT / TEST - FLRS 10 TO 1 AND BASEMENT WINGS	220	04-Nov-15	06-Sep-16
P2-2282	INSULATE DUCT - FLRS 10 TO 1 AND BASEMENT WINGS	220	02-Dec-15	04-Oct-16
P2-2283	MEP ROUGH-IN/INSULATION (ABOVE CEILING) - FLRS 10 TO 1 AND BASEMENT WINGS	220	16-Dec-15	18-Oct-16
P2-2284	SPRINKLER ROUGH-IN (ABOVE CEILING) - FLRS 10 TO 1 AND BASEMENT WINGS	220	16-Dec-15	18-Oct-16
P2-2285	PARTITIONS - FLRS 10 TO 1 AND BASEMENT WINGS	220	13-Jan-16	15-Nov-16
P2-2286	ELECTRICAL WALL ROUGH-IN - FLRS 10 TO 1 AND BASEMENT WINGS	220	10-Feb-16	13-Dec-16
P2-2288A	FIRE STOPPING FLRS 10 - 1 AND BASEMENT WINGS	220	17-Feb-16	20-Dec-16
P2-2287	BLACK IRON - FLRS 10 TO 1 AND BASEMENT WINGS	220	09-Mar-16	10-Jan-17
P2-2288	ELECTRICAL BRANCH WIRING - FLRS 10 TO 1 AND BASEMENT WINGS	150	20-Apr-16	15-Nov-16
P2-2289	GRID / TILES - FLRS 10 TO 1 AND BASEMENT WINGS	150	04-May-16	29-Nov-16



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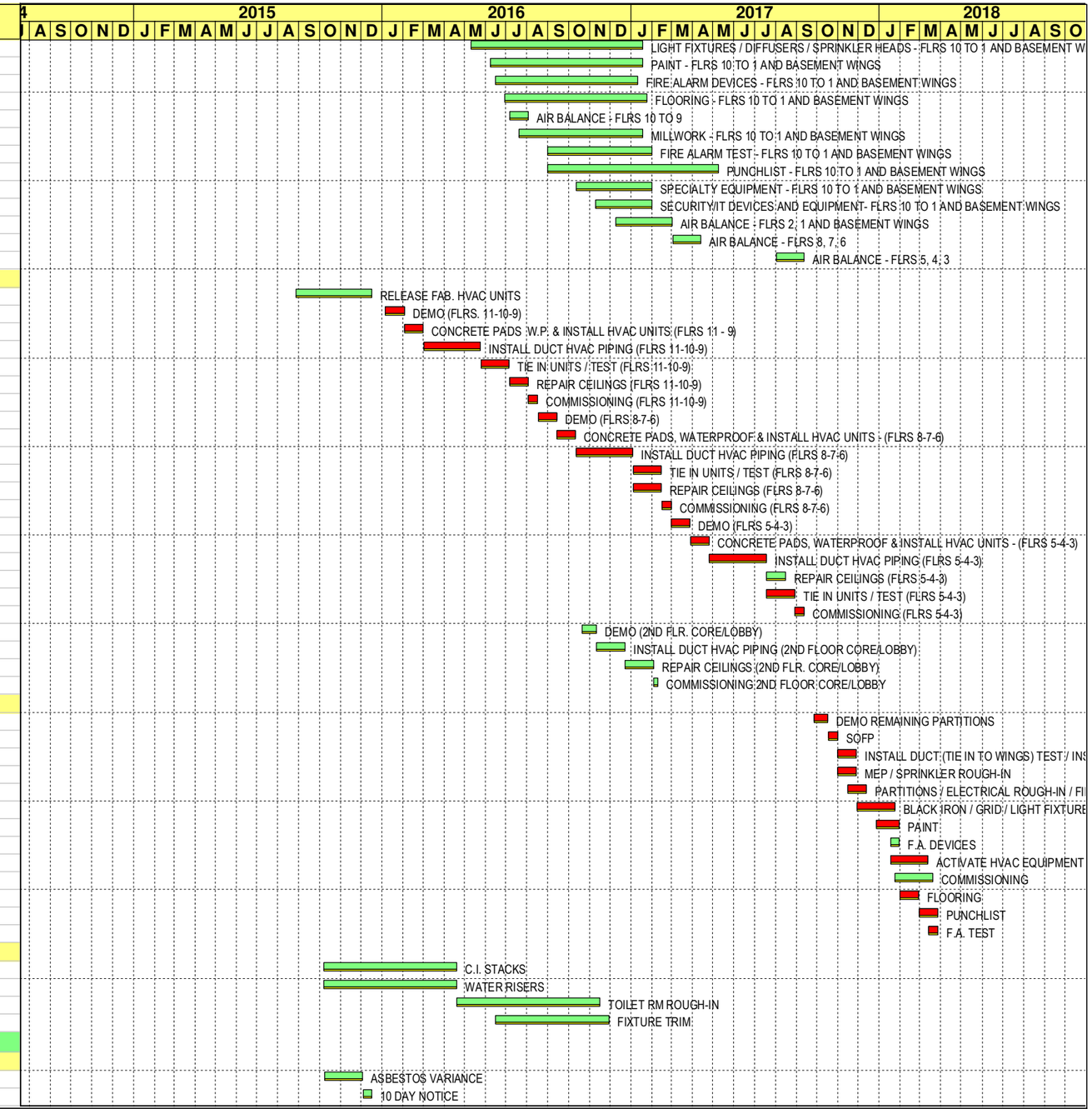
Activity ID	Activity Name	Orig. Dur.	Start	Finish
P2-2290	LIGHT FIXTURES / DIFFUSERS / SPRINKLER HEADS - FLRS 10 TO 1 AND BASEMENT WINGS	180	11-May-16	17-Jan-17
P2-2292	PAINT - FLRS 10 TO 1 AND BASEMENT WINGS	160	08-Jun-16	17-Jan-17
P2-2294	FIRE ALARM DEVICES - FLRS 10 TO 1 AND BASEMENT WINGS	150	15-Jun-16	10-Jan-17
P2-2293	FLOORING - FLRS 10 TO 1 AND BASEMENT WINGS	150	29-Jun-16	24-Jan-17
P2-2291	AIR BALANCE - FLRS 10 TO 9	20	06-Jul-16	02-Aug-16
P2-2296	MILLWORK - FLRS 10 TO 1 AND BASEMENT WINGS	130	20-Jul-16	17-Jan-17
P2-2295	FIRE ALARM TEST - FLRS 10 TO 1 AND BASEMENT WINGS	110	31-Aug-16	31-Jan-17
P2-2298	PUNCHLIST - FLRS 10 TO 1 AND BASEMENT WINGS	180	31-Aug-16	09-May-17
P2-2297	SPECIALTY EQUIPMENT - FLRS 10 TO 1 AND BASEMENT WINGS	80	12-Oct-16	31-Jan-17
P2-2297A	SECURITY/IT DEVICES AND EQUIPMENT- FLRS 10 TO 1 AND BASEMENT WINGS	60	09-Nov-16	31-Jan-17
P2-2302	AIR BALANCE - FLRS 2, 1 AND BASEMENT WINGS	60	09-Dec-16	02-Mar-17
P2-2300	AIR BALANCE - FLRS 8, 7, 6	30	03-Mar-17	13-Apr-17
P2-2301	AIR BALANCE - FLRS 5, 4, 3	30	02-Aug-17	12-Sep-17
CORE MER'S & ELEVATOR LOBBIES				
P2-1820	RELEASE FAB. HVAC UNITS	80	28-Aug-15	17-Dec-15
P2-1830	DEMO (FLRS. 11-10-9)	20	06-Jan-16	02-Feb-16
P2-1840	CONCRETE PADS W.P. & INSTALL HVAC UNITS (FLRS 11 - 9)	20	03-Feb-16	01-Mar-16
P2-1850	INSTALL DUCT HVAC PIPING (FLRS 11-10-9)	60	02-Mar-16	24-May-16
P2-1860	TIE IN UNITS / TEST (FLRS 11-10-9)	30	25-May-16	05-Jul-16
P2-1870	REPAIR CEILINGS (FLRS 11-10-9)	20	06-Jul-16	02-Aug-16
P2-1880	COMMISSIONING (FLRS 11-10-9)	10	03-Aug-16	16-Aug-16
P2-1890	DEMO (FLRS 8-7-6)	20	17-Aug-16	13-Sep-16
P2-1900	CONCRETE PADS, WATERPROOF & INSTALL HVAC UNITS - (FLRS 8-7-6)	20	14-Sep-16	11-Oct-16
P2-1910	INSTALL DUCT HVAC PIPING (FLRS 8-7-6)	60	12-Oct-16	03-Jan-17
P2-1920	TIE IN UNITS / TEST (FLRS 8-7-6)	30	04-Jan-17	14-Feb-17
P2-1930	REPAIR CEILINGS (FLRS 8-7-6)	30	04-Jan-17	14-Feb-17
P2-1940	COMMISSIONING (FLRS 8-7-6)	10	15-Feb-17	28-Feb-17
P2-1950	DEMO (FLRS 5-4-3)	20	01-Mar-17	28-Mar-17
P2-1960	CONCRETE PADS, WATERPROOF & INSTALL HVAC UNITS - (FLRS 5-4-3)	20	29-Mar-17	25-Apr-17
P2-1970	INSTALL DUCT HVAC PIPING (FLRS 5-4-3)	60	26-Apr-17	18-Jul-17
P2-1990	REPAIR CEILINGS (FLRS 5-4-3)	20	19-Jul-17	15-Aug-17
P2-1980	TIE IN UNITS / TEST (FLRS 5-4-3)	30	19-Jul-17	29-Aug-17
P2-2000	COMMISSIONING (FLRS 5-4-3)	10	30-Aug-17	12-Sep-17
P2-2010	DEMO (2ND FLR. CORE/LOBBY)	15	21-Oct-16	10-Nov-16
P2-2012	INSTALL DUCT HVAC PIPING (2ND FLOOR CORE/LOBBY)	30	11-Nov-16	22-Dec-16
P2-2014	REPAIR CEILINGS (2ND FLR. CORE/LOBBY)	30	23-Dec-16	02-Feb-17
P2-2051	COMMISSIONING 2ND FLOOR CORE/LOBBY	5	03-Feb-17	09-Feb-17
BASEMENT CORRIDORS				
P2-2130	DEMO REMAINING PARTITIONS	15	27-Sep-17	17-Oct-17
P2-2160	SOFP	10	18-Oct-17	31-Oct-17
P2-2170	INSTALL DUCT (TIE IN TO WINGS) TEST / INSULATE	20	01-Nov-17	28-Nov-17
P2-2180	MEP / SPRINKLER ROUGH-IN	20	01-Nov-17	28-Nov-17
P2-2190	PARTITIONS / ELECTRICAL ROUGH-IN / FIRESTOPPING	20	15-Nov-17	12-Dec-17
P2-2200	BLACK IRON / GRID / LIGHT FIXTURES / DIFFUSERS	40	29-Nov-17	23-Jan-18
P2-2210	PAINT	25	27-Dec-17	30-Jan-18
P2-2240	F.A. DEVICES	10	17-Jan-18	30-Jan-18
P2-2230	ACTIVATE HVAC EQUIPMENT / BALANCE	40	17-Jan-18	13-Mar-18
P2-2270	COMMISSIONING	40	24-Jan-18	20-Mar-18
P2-2220	FLOORING	20	31-Jan-18	27-Feb-18
P2-2260	PUNCHLIST	20	28-Feb-18	27-Mar-18
P2-2250	F.A. TEST	10	14-Mar-18	27-Mar-18
TOILET ROOMS (PLUMBING)				
P2-1780	C.I. STACKS	140	07-Oct-15	19-Apr-16
P2-1790	WATER RISERS	140	07-Oct-15	19-Apr-16
P2-1800	TOILET RM ROUGH-IN	150	20-Apr-16	15-Nov-16
P2-1810	FIXTURE TRIM	120	15-Jun-16	29-Nov-16
MER'S & ROOF TOP UNITS (16, 13, 12, 3, 2, 1, B)				
ROOFING				
P2-1720	ASBESTOS VARIANCE	40	09-Oct-15	03-Dec-15
P2-1730	10 DAY NOTICE	10	04-Dec-15	17-Dec-15



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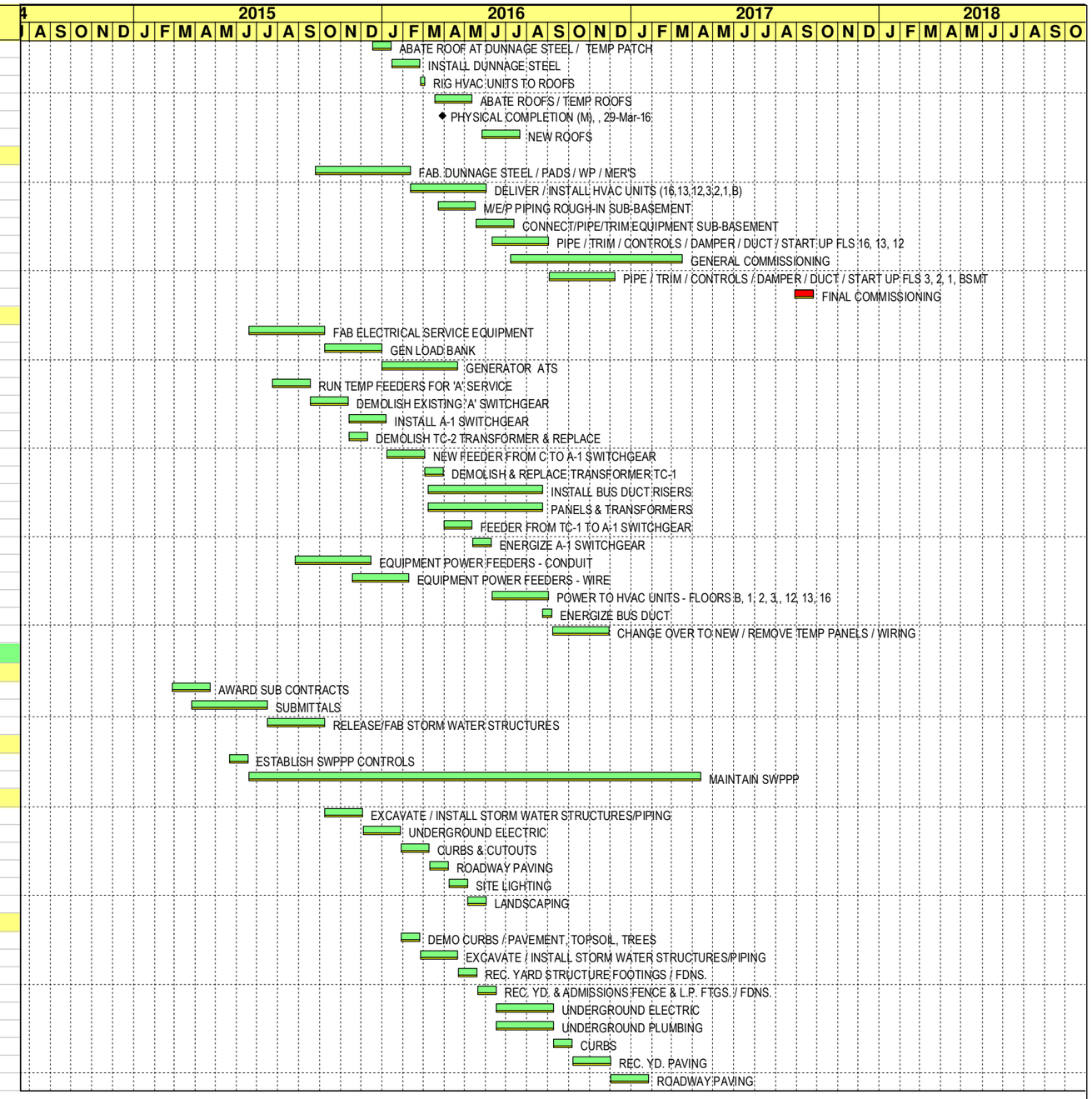
Activity ID	Activity Name	Orig. Dur.	Start	Finish
P2-1740	ABATE ROOF AT DUNNAGE STEEL / TEMP PATCH	20	18-Dec-15	14-Jan-16
P2-1750	INSTALL DUNNAGE STEEL	30	15-Jan-16	25-Feb-16
P2-1760	RIG HVAC UNITS TO ROOFS	5	26-Feb-16	03-Mar-16
P2-1770	ABATE ROOFS / TEMP ROOFS	40	18-Mar-16	12-May-16
P1-M3710	PHYSICAL COMPLETION (M)	0		29-Mar-16
P2-1775	NEW ROOFS	40	27-May-16	21-Jul-16
MER'S & ROOF TOP UNITS				
P2-2070	FAB. DUNNAGE STEEL / PADS / WP / MER'S	100	25-Sep-15	11-Feb-16
P2-2080	DELIVER / INSTALL HVAC UNITS (16,13,12,3,2,1,B)	80	12-Feb-16	02-Jun-16
P2-2061	M/E/P PIPING ROUGH-IN SUB-BASEMENT	40	23-Mar-16	17-May-16
P2-2062	CONNECT/PIPE/TRIM EQUIPMENT SUB-BASEMENT	40	18-May-16	12-Jul-16
P2-2090	PIPE / TRIM / CONTROLS / DAMPER / DUCT / START UP FLS 16, 13, 12	60	10-Jun-16	01-Sep-16
P2-2100	GENERAL COMMISSIONING	180	08-Jul-16	16-Mar-17
P2-2299	PIPE / TRIM / CONTROLS / DAMPER / DUCT / START UP FLS 3, 2, 1, BSMT	70	02-Sep-16	08-Dec-16
P2-2110	FINAL COMMISSIONING	20	30-Aug-17	26-Sep-17
ELECTRICAL SERVICE				
P2-1550	FAB ELECTRICAL SERVICE EQUIPMENT	80	19-Jun-15	08-Oct-15
P2-1640	GEN LOAD BANK	60	09-Oct-15	31-Dec-15
P2-1650	GENERATOR ATS	80	01-Jan-16	21-Apr-16
P2-1570	RUN TEMP FEEDERS FOR 'A' SERVICE	40	24-Jul-15	17-Sep-15
P2-1580	DEMOLISH EXISTING 'A' SWITCHGEAR	40	18-Sep-15	12-Nov-15
P2-1590	INSTALL A-1 SWITCHGEAR	40	13-Nov-15	07-Jan-16
P2-1560	DEMOLISH TC-2 TRANSFORMER & REPLACE	20	13-Nov-15	10-Dec-15
P2-1600	NEW FEEDER FROM C TO A-1 SWITCHGEAR	40	08-Jan-16	03-Mar-16
P2-1610	DEMOLISH & REPLACE TRANSFORMER TC-1	20	04-Mar-16	31-Mar-16
P2-1660	INSTALL BUS DUCT RISERS	120	09-Mar-16	23-Aug-16
P2-1670	PANELS & TRANSFORMERS	120	09-Mar-16	23-Aug-16
P2-1620	FEEDER FROM TC-1 TO A-1 SWITCHGEAR	30	01-Apr-16	12-May-16
P2-1630	ENERGIZE A-1 SWITCHGEAR	20	13-May-16	09-Jun-16
P2-1601	EQUIPMENT POWER FEEDERS - CONDUIT	80	26-Aug-15	15-Dec-15
P2-1602	EQUIPMENT POWER FEEDERS - WIRE	60	18-Nov-15	09-Feb-16
P2-1700	POWER TO HVAC UNITS - FLOORS B, 1, 2, 3,, 12, 13, 16	60	10-Jun-16	01-Sep-16
P2-1680	ENERGIZE BUS DUCT	10	24-Aug-16	06-Sep-16
P2-1710	CHANGE OVER TO NEW / REMOVE TEMP PANELS / WIRING	60	07-Sep-16	29-Nov-16
SITEWORK PACKAGE No. 2				
PRE-CONSTRUCTION				
P2S-1010	AWARD SUB CONTRACTS	40	27-Feb-15	23-Apr-15
P2S-1020	SUBMITTALS	80	27-Mar-15	16-Jul-15
P2S-1030	RELEASE/FAB STORM WATER STRUCTURES	60	17-Jul-15	08-Oct-15
SWPPP				
P2S-4000	ESTABLISH SWPPP CONTROLS	20	22-May-15	18-Jun-15
P2S-4010	MAINTAIN SWPPP	475	19-Jun-15	13-Apr-17
NORTH ACCESS ROAD				
P2S-1040	EXCAVATE / INSTALL STORM WATER STRUCTURES/PIPING	40	09-Oct-15	03-Dec-15
P2S-1050	UNDERGROUND ELECTRIC	40	04-Dec-15	28-Jan-16
P2S-1060	CURBS & CUTOUTS	30	29-Jan-16	10-Mar-16
P2S-1070	ROADWAY PAVING	20	11-Mar-16	07-Apr-16
P2S-1080	SITE LIGHTING	20	08-Apr-16	05-May-16
P2S-1090	LANDSCAPING	20	06-May-16	02-Jun-16
ADMISSIONS ENTRANCE / REC. YARD A				
P2S-5000	DEMO CURBS / PAVEMENT, TOPSOIL, TREES	20	29-Jan-16	25-Feb-16
P2S-5010	EXCAVATE / INSTALL STORM WATER STRUCTURES/PIPING	40	26-Feb-16	21-Apr-16
P2S-5015	REC. YARD STRUCTURE FOOTINGS / FDNS.	20	22-Apr-16	19-May-16
P2S-5030	REC. YD. & ADMISSIONS FENCE & L.P. FTGS. / FDNS.	20	20-May-16	16-Jun-16
P2S-5040	UNDERGROUND ELECTRIC	60	17-Jun-16	08-Sep-16
P2S-5050	UNDERGROUND PLUMBING	60	17-Jun-16	08-Sep-16
P2S-5060	CURBS	20	09-Sep-16	06-Oct-16
P2S-5070	REC. YD. PAVING	40	07-Oct-16	01-Dec-16
P2S-5080	ROADWAY PAVING	40	02-Dec-16	26-Jan-17



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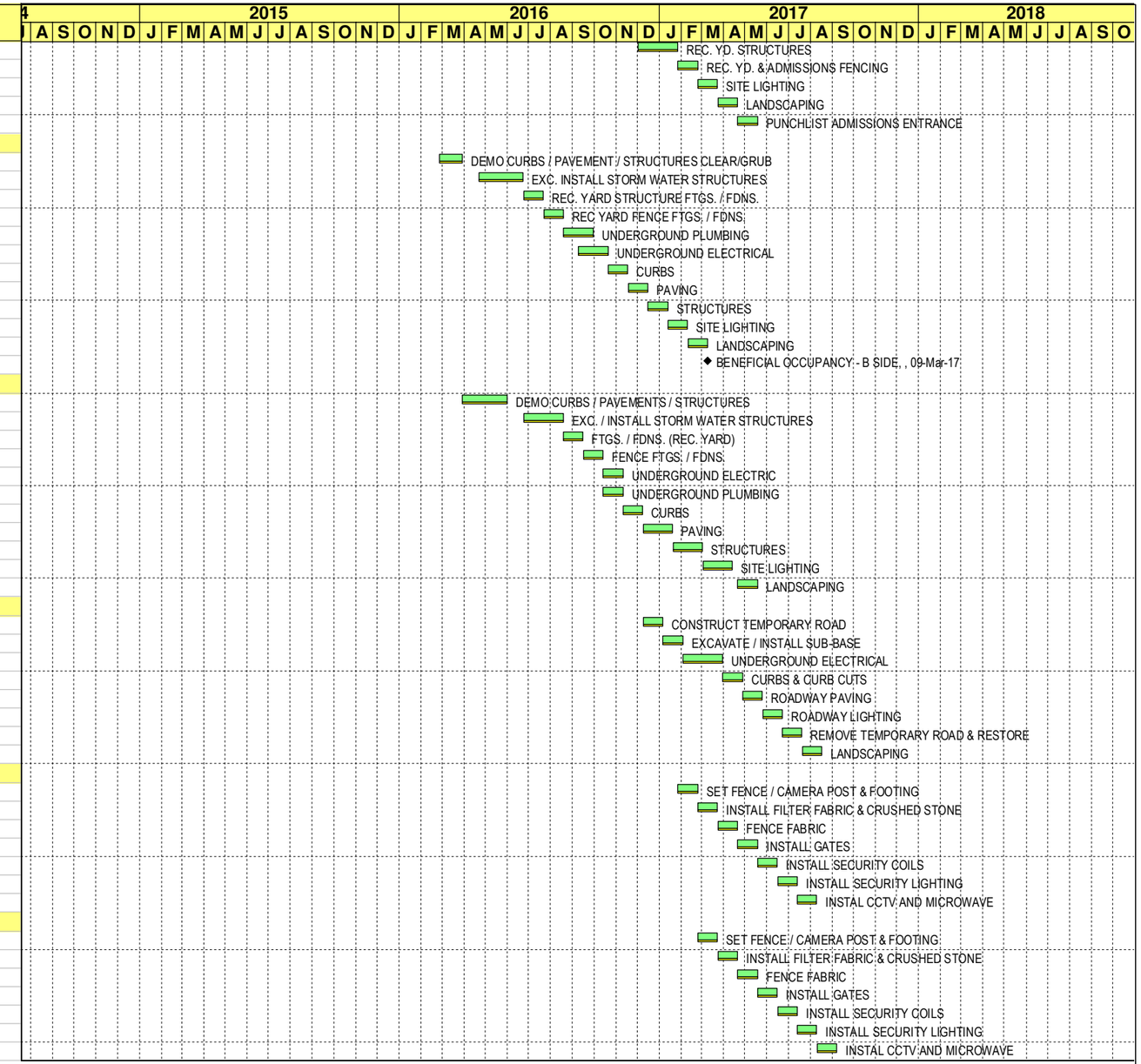
Activity ID	Activity Name	Orig. Dur.	Start	Finish
P2S-5090	REC. YD. STRUCTURES	40	02-Dec-16	26-Jan-17
P2S-5100	REC. YD. & ADMISSIONS FENCING	20	27-Jan-17	23-Feb-17
P2S-5110	SITE LIGHTING	20	24-Feb-17	23-Mar-17
P2S-5120	LANDSCAPING	20	24-Mar-17	20-Apr-17
P2S-5130	PUNCHLIST ADMISSIONS ENTRANCE	20	21-Apr-17	18-May-17
REC YARD B				
P2S-6000	DEMO CURBS / PAVEMENT / STRUCTURES CLEAR/GRUB	23	26-Feb-16	29-Mar-16
P2S-6010	EXC. INSTALL STORM WATER STRUCTURES	45	22-Apr-16	23-Jun-16
P2S-6020	REC. YARD STRUCTURE FTGS. / FDNS.	20	24-Jun-16	21-Jul-16
P2S-6030	REC YARD FENCE FTGS. / FDNS.	20	22-Jul-16	18-Aug-16
P2S-6050	UNDERGROUND PLUMBING	30	19-Aug-16	29-Sep-16
P2S-6040	UNDERGROUND ELECTRICAL	30	09-Sep-16	20-Oct-16
P2S-6060	CURBS	20	21-Oct-16	17-Nov-16
P2S-6070	PAVING	20	18-Nov-16	15-Dec-16
P2S-6080	STRUCTURES	20	16-Dec-16	12-Jan-17
P2S-6090	SITE LIGHTING	20	13-Jan-17	09-Feb-17
P2S-6100	LANDSCAPING	20	10-Feb-17	09-Mar-17
P2S-6110	BENEFICIAL OCCUPANCY - B SIDE	0		09-Mar-17
SWING REC. YARD & ADMIN AREA				
P2S-7000	DEMO CURBS / PAVEMENTS / STRUCTURES	45	30-Mar-16	31-May-16
P2S-7010	EXC. / INSTALL STORM WATER STRUCTURES	40	24-Jun-16	18-Aug-16
P2S-7020	FTGS. / FDNS. (REC. YARD)	20	19-Aug-16	15-Sep-16
P2S-7030	FENCE FTGS. / FDNS.	20	16-Sep-16	13-Oct-16
P2S-7040	UNDERGROUND ELECTRIC	20	14-Oct-16	10-Nov-16
P2S-7050	UNDERGROUND PLUMBING	20	14-Oct-16	10-Nov-16
P2S-7060	CURBS	20	11-Nov-16	08-Dec-16
P2S-7070	PAVING	30	09-Dec-16	19-Jan-17
P2S-7080	STRUCTURES	30	20-Jan-17	02-Mar-17
P2S-7090	SITE LIGHTING	30	03-Mar-17	13-Apr-17
P2S-7100	LANDSCAPING	20	21-Apr-17	18-May-17
WEST ROAD IMPROVEMENT				
P2S-8000	CONSTRUCT TEMPORARY ROAD	20	09-Dec-16	05-Jan-17
P2S-8010	EXCAVATE / INSTALL SUB-BASE	20	06-Jan-17	02-Feb-17
P2S-8020	UNDERGROUND ELECTRICAL	40	03-Feb-17	30-Mar-17
P2S-8030	CURBS & CURB CUTS	20	31-Mar-17	27-Apr-17
P2S-8040	ROADWAY PAVING	20	28-Apr-17	25-May-17
P2S-8050	ROADWAY LIGHTING	20	26-May-17	22-Jun-17
P2S-8060	REMOVE TEMPORARY ROAD & RESTORE	20	23-Jun-17	20-Jul-17
P2S-8070	LANDSCAPING	20	21-Jul-17	17-Aug-17
SECURITY FENCE NORTH				
P2S-9000	SET FENCE / CAMERA POST & FOOTING	20	27-Jan-17	23-Feb-17
P2S-9010	INSTALL FILTER FABRIC & CRUSHED STONE	20	24-Feb-17	23-Mar-17
P2S-9020	FENCE FABRIC	20	24-Mar-17	20-Apr-17
P2S-9030	INSTALL GATES	20	21-Apr-17	18-May-17
P2S-9040	INSTALL SECURITY COILS	20	19-May-17	15-Jun-17
P2S-9050	INSTALL SECURITY LIGHTING	20	16-Jun-17	13-Jul-17
P2S-9060	INSTAL CCTV AND MICROWAVE	20	14-Jul-17	10-Aug-17
SECURITY FENCE SOUTH				
P2S-9100	SET FENCE / CAMERA POST & FOOTING	20	24-Feb-17	23-Mar-17
P2S-9110	INSTALL FILTER FABRIC & CRUSHED STONE	20	24-Mar-17	20-Apr-17
P2S-9120	FENCE FABRIC	20	21-Apr-17	18-May-17
P2S-9130	INSTALL GATES	20	19-May-17	15-Jun-17
P2S-9140	INSTALL SECURITY COILS	20	16-Jun-17	13-Jul-17
P2S-9150	INSTALL SECURITY LIGHTING	20	14-Jul-17	10-Aug-17
P2S-9160	INSTAL CCTV AND MICROWAVE	20	11-Aug-17	07-Sep-17



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A - GENERAL

1. ALL DESIGN SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE OF 2010, INCLUDING ALL AMENDMENTS.

2. VERIFY ALL FIELD DIMENSIONS BY MEASUREMENT AT THE JOB SITE BEFORE SUBMITTING SHOP DRAWINGS.

3. DO NOT PLACE CONCRETE WITHOUT APPROVED STRUCTURAL SHOP DRAWINGS AND MECHANICAL/ARCHITECTURAL SHOP DRAWINGS RELATED TO THE CONCRETE WORK. RELATED ITEMS INCLUDE LOCATIONS OF OPENINGS; PIPE SLEEVES; REGLETS; DOVETAIL SLOTS, DRIPS, INSERTS FOR MECHANICAL EQUIPMENT AND/OR HUNG CEILINGS AND ANY OTHER ITEMS REQUIRED TO BE INSTALLED AND/OR COORDINATED BY THE ARCHITECTURAL AND MECHANICAL TRADES.

4. FOR LOCATION OF CURBS, CONCRETE PADS, FLOOR DEPRESSIONS, ROOF AND FLOOR DRAINS, SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.

5. VERIFY FRAMING OR SUPPORT FOR MECHANICAL EQUIPMENT AND ANY MECHANICAL OPENINGS WITH MECHANICAL TRADES PRIOR TO SUBMISSION OF SHOP DRAWINGS.

6. FOR SIZE AND LOCATION OF ALL WINDOWS, LOUVERS, AND ANY OTHER MASONRY OPENINGS, SEE ARCHITECTURALDRAWINGS.

7. NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS NOTED OTHERWISE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF A SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.

8. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS,ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING WORK.

9. THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

10. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.

11. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATER OR DAMPROOFING AND FIREPROOFING DETAILS AND REQUIREMENTS.

12. TOP OF CONCRETE SLABS ARE AT FLOOR REFERENCE ELEVATIONS EXCEPT AS NOTED.

13. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECT'S OR ENGINEER'S PRESENCE OR REVIEW OF WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION.

14. SHORING, BRACING, AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STREETS, BUILDINGS, AND STRUCTURES.

15. ALL EXISTING DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY FIELD MEASUREMENTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.

16. DRAWINGS HAVE BEEN PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF, DURING DEMOLITION, EXCAVATION OR CONSTRUCTION, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON DRAWINGS, ENGINEER SHALL BE NOTIFIED.

17. CONDITION OF EXISTING STRUCTURAL ELEMENTS OF THE BUILDING TO BE REUSED NEEDS TO BE EVALUATED IN THE FIELD. REINFORCEMENT OR REPAIR SHALL BE PROVIDED IF REQUIRED.

18. CLASSIFICATION OF NEW WORK ON THIS PROJECT IS ALTERATION - LEVEL 2, BASED ON EXISTING BUILDING CODE OF NEW YORK STATE 2010.

B - FOUNDATION

1. ALL MATERIAL, FABRICATION, INSTALLATION, AND INSPECTION REQUIREMENTS RELATING TO FOUNDATIONS SHALL CONFORM TO DESIGN DRAWINGS AND SPECIFICATIONS.

2. ALL ELEVATIONS SHOWN ARE BASED ON EXISTING STRUCTURAL DRAWINGS IN THE AREA OF WORK.

3. FOUNDATION DESIGN WAS DONE IN ACCORDANCE WITH INFORMATION AND RECOMMENDATIONS PRESENTED IN THE INVESTIGATIVE REPORT DOCUMENT 003132 PREPARED FOR NYS OGS PROJECT #43368, DATED 6/29/2009 BY CLOUGH, HARBOUR, AND ASSOCIATES.

4. BUILDING FOUNDATION SYSTEM WILL BE SUPPORTED BY BEARING ON CLASS 4-65 BEDROCK. MINIMUM BEARING CAPACITY OF 8 TONS PER SQUARE FOOT.

5. DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNLESS THEY ARE ADEQUATELY BRACED OR UNTIL THE FIRST FLOOR SLABS HAVE BEEN POURED AND ACHIEVE THEIR DESIGN COMPRESSIVE STRENGTH.

6. THE CONTRACTOR SHALL CONFORM TO SAFETY REQUIREMENTS DURING EXCAVATION COMPLYING WITH SECTION BC 1803 OF THE 2010 NYS BUILDING CODE.

7. HEAVY EQUIPMENT SHALL NOT BE PERMITTED CLOSER THAN 10 FEET FROM ANY FOUNDATION WALL. IF THE CONTRACTOR DEEMS IT NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 10 FEET, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND, AT HIS OWN EXPENSE, PROVIDE ADEQUATE SUPPORTS OR WALL BRACES TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.

8. ALL PIER DEPRESSIONS SHALL BE FILLED WITH CONCRETE TO THE TOP ELEVATION OF ADJACENT WALLS AFTER COLUMNS ARE IN PLACE.

9. ANCHOR BOLTS SHALL BE SET PRIOR TO CONCRETE POUR, SEE DETAILS.

10. FOR TYPE OF FLOOR FINISH, SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. DEPRESS FLOOR SLABS AS REQUIRED, SEE DETAILS.

11. VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ETC. REQUIRED FOR WORK OF OTHER DIVISIONS. PROVIDE WATERTIGHT SLEEVES AT ALL PIPE PENETRATIONS THROUGH CONCRETE BEAMS AND SLAB.

12. ALL FOUNDATION CONCRETE SHALL BE POURED ON DRY SOIL CONDITIONS. ALL EXCAVATIONS SHALL BE ADEQUATELY DEWATERED PRIOR TO POURING OF CONCRETE.

13. DEWATERING OF THE SITE DURING CONSTRUCTION, INCLUDING SELECTION OF METHOD AND PREPARATION OF ASSOCIATED CALCULATIONS, IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR NOT TO UNDERMINE EXISTING FOUNDATIONS.

14. ALL FOOTINGS ARE TO BE CENTERED ON COLUMNS ABOVE UNLESS NOTED OTHERWISE.

15. PROVIDE DOWELS IN FOUNDATIONS FOR ALL WALLS AND COLUMNS OF SAME NUMBER AND SIZE AS THE VERTICAL REINFORCEMENT ABOVE UNLESS NOTED OTHERWISE.

16. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3'-6" BELOW EXTERIOR FINISH GRADE.

17. ALL CONCRETE BEAMS, PIERS AND SLAB SHALL BE POURED MONOLITHICALLY, UNLESS OTHERWISE SHOWN ON A DRAWING.

C - STRUCTURAL STEEL

1. THE DESIGN OF ALL STRUCTURAL STEEL IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", MARCH 9, 2005 ("AISC 360-05").

2. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE ABOVE AISC SPECIFICATION AND CHAPTER 22 OF THE NYS BUILDING CODE.

3. MATERIAL FOR STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING UNLESS NOTES OTHERWISE ON THE DRAWINGS:

WIDE FLANGE SECTIONS:	ASTM A992, GRADE 50
M, S, C, MC, & L SHAPES & PLATES:	ASTM A36
HSS SHAPES:	ASTM A500, GRADE B (Fy = 46 KSI)
PIPE SHAPES:	ASTM A53, GRADE B
ANCHOR RODS:	ASTM F1554, GRADE 36
SAG RODS	ASTM A36
BASE PLATE GROUT (FLOWABLE)	8,000 PSI

4. MATERIAL ACCEPTANCE OF STRUCTURAL STEEL SHALL CONFORM TO THE CERTIFICATION AND INSPECTION REQUIREMENTS OF AISC AND SECTION BC 1704.3 OF THE NYS BUILDING CODE.

5. SUBMIT CHECKED SHOP DRAWINGS PREPARED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK FOR APPROVAL. PRIOR TO SUBMITTAL OF DETAILED SHOP DRAWINGS, PROVIDE A SET OF JOB STANDARDS SHOWING ALL NECESSARY JOINT DETAILS. AFTER APPROVAL OF THESE STANDARDS, SUBMIT ERECTION PLANS INDICATING LOCATION OF JOINT AND MEMBER MARKINGS. SHOP DRAWINGS SHALL SHOW COMPLETE BOLTING AND WELDING INFORMATION, BOTH SHOP AND FIELD. ALL WELDING INFORMATION SHALL USE AMERICAN WELDING SOCIETY SYMBOLS.

6. UNLESS NOTED OTHERWISE, DETAIL FLOOR MEMBER CONNECTIONS FOR THE FOLLOWING VERTICAL REACTIONS:

SHAPE	MINIMUM REACTIONS IN KIPS TO GIRDERS	TO COLUMN	MINIMUM NUMBER OF ROWS
W8, C8, HSS8	12	17	2
W10, C10	15	20	2
W12, C12	20	25	2
W14	25	30	3
W16	30	38	3
W18	36	46	3
W21	46	58	4
W24	57	72	4
W27	70	85	5
W30	85	100	6
W33	100	120	7
W36, W40	115	135	8

MINIMUM DIAMETER OF ALL BOLTS SHALL BE 3/4", MAXIMUM 1-1/8". FOR ALL BOLTED JOINTS PROVIDE AT LEAST 2 BOLTS PER JOINT.

7. UNLESS NOTED OTHERWISE, JOINTS MAY BE DESIGNED AS WELDED OR BOLTED. THE FOLLOWING JOINTS MUST BE WELDED OR DESIGNED AS SLIP CRITICAL CLASS A:

a) BEAM-TO-COLUMN AND GIRDER-TO-COLUMN JOINTS
b) COLUMN SPLICES
c) JOINTS WITHIN AND CONNECTING TO BRACED FRAMES
d) JOINTS RESISTING REVERSIBLE, FATIGUE, OR IMPACT LOADING
e) JOINTS SHARING LOAD BETWEEN BOLTS AND WELDS

8. BOLTED CONNECTIONS

a) ALL BOLTS SHALL BE HIGH-STRENGTH CONFORMING TO THE FOLLOWING UNLESS NOTED OTHERWISE:

3/4" - 1" Ø	ASTM A325 OR F1852
1-1/8 " Ø	ASTM A490 OR F2280

b) ALL BOLTS SHALL BE 3/4" MINIMUM DIAMETER WITH HARDENED WASHERS UNDER THE TURNING ELEMENT (INCLUDING TURN OF THE NUT METHOD), UNLESS NOTED OTHERWISE.

c) HIGH-STRENGTH BOLTED CONNECTIONS SHALL BE INSTALLED CONFORMING TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", APPROVED JUNE 30, 2004 AND ADOPTED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION.

d) ALL CONTACT SURFACES, INCLUDING SURFACES ADJACENT TO THE BOLT HEAD AND NUT, SHALL BE FREE OF SCALE, OIL, PAINT, LACQUER, AND OTHER FOREIGN MATERIAL. BURRS THAT WOULD PREVENT SOLID SEATING OF THE CONNECTED PARTS IN THE SNUG TIGHT CONDITION SHALL BE REMOVED. CONTACT SURFACES THAT ARE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ROUGHENED BY MEANS OF HAND WIRE BRUSHING (POWER BRUSHING IS PROHIBITED) WILL BE PERMITTED.

e) USE FULL DEPTH DOUBLE ANGLE CONNECTIONS ON ALL GIRDER AND BEAM CONNECTIONS TO COLUMNS. INFILL BEAM CONNECTIONS MAY BE ONE-SIDED UNLESS NOTED OTHERWISE. ALL CLIP ANGLES AND GUSSET PLATES SHALL BE A MINIMUM OF 5/16" THICK. PROVIDE 3/8" STIFFENER PLATES LOCALLY AT ALL HANGERS AND POSTS UNLESS NOTED OTHERWISE.

f) ALL BOLTED CONNECTIONS SHALL MEET STRUCTURAL INTEGRITY REQUIREMENTS OF BC 2204 OF THE NYS BUILDING CODE.

9. WELDED CONNECTIONS

a) WELDING OPERATIONS AND DESIGN SHALL BE IN ACCORDANCE WITH:

1) THE AISC SPECIFICATION
2) STRUCTURAL WELDING CODE, AWS D.1, AS MODIFIED BY AISC SPECIFICATION SECTION J2.
3) SECTION BC 2204 OF THE NYS BUILDING CODE

b) WELDING SHALL BE PERFORMED BY LICENSED WELDERS. REFER TO SECTION BC 2204.1 OF THE NYS BUILDING CODE.

c) AWS CLASS E70XX SERIES LOW HYDROGEN ELECTRODES SHALL BE USED FOR WELDING NEW STRUCTURAL STEEL (E80XX IF GRADE 65).

d) ALL CONTACT SURFACES AND AREAS WITHIN TWO INCHES OF WELD DURING WELDING SHALL BE FREE OF SCALE, OIL, PAINT, LACQUER, GALVANIZING, AND ANY OTHER FOREIGN MATERIAL.

e) BUTT WELDS SHALL BE 100% PENETRATION WELDS AND FILLET WELDS A MINIMUM OF 1/4" UNLESS NOTED OTHERWISE.

10. ALL CONNECTIONS, BOTH FIELD AND SHOP, ARE SUBJECT TO CONTROLLED INSPECTION.

a) THE OWNER WILL ASSIGN A LICENSED PROFESSIONAL ENGINEER, APPROVED BY THE ENGINEER OF RECORD, TO SUPERVISE AND INSPECT THE TENSIONING OF HIGH-STRENGTH BOLTS IN CONFORMANCE WITH SECTION 1704.3.3 OF THE NYS BUILDING CODE.

b) THE OWNER WILL ASSIGN A LICENSED PROFESSIONAL ENGINEER, APPROVED BY THE ENGINEER OF RECORD, TO SUPERVISE AND INSPECT THE WELDING OPERATIONS IN CONFORMANCE WITH SECTION 1704.3.1 OF THE NYS BUILDING CODE.

11. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR METAL STAIRS AND RAILINGS THAT ARE ENGINEERED BY THE CONTRACTOR. THE PACKAGE IS TO BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK AND DESIGNED USING ALL GOVERNING CODES.

12. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOADS INCLUDING BEAMS SUPPORTING COLUMNS OR RUNNING OVER THE TOPS OF COLUMNS, BEAMS SUPPORTING STAIR STRUTS AND STAIR HANGERS, ETC. MINIMUM STIFFENER PLATE THICKNESS SHALL BE 3/8", FLANGE THICKNESS OF COLUMN ABOVE OR BELOW BEAM, OR BEAM WEB THICKNESS, WHICHEVER IS GREATER.

13. SEE STRUCTURAL STEEL SPECIFICATION FOR ALL PAINTING REQUIREMENTS.

14. ALL EXPOSED STEEL (INCLUDING BUT NOT LIMITED TO DUNNAGE FRAMING, SCREEN WALL FRAMING, CANOPY FRAMING, MEMBERS SUPPORTING EXTERIOR MASONRY, ETC.) SHALL BE HOT DIP GALVANIZED. MEMBERS TO BE PAINTED SHALL BE GALVANIZED BY THE ZINC METALIZING PROCESS. ANY POINTS OF WELDING SHALL BE TOUCHED UP IN THE FIELD WITH A ZINC-RICH PAINT BY THE STEEL ERECTOR.

15. SPANDREL ANGLE AT PERIMETER EDGE OF FLOOR SLAB/ROOF SHALL BE ADJUSTABLE. SHIP ANGLE LOOSE AND SET WITH STRING LINE IN FIELD FOR VERTICAL AND HORIZONTAL ALIGNMENT AFTER STEEL IS FULLY ERECTED TO A MAXIMUM TOLERANCE OF 1/4" HORIZONTAL PER BAY/PER FLOOR. ANGLE SHALL BE SET PLUMB BY STEEL ERECTOR PRIOR TO FACADE ERECTION AND ANGLE SHALL BE INSTALLED IN ONE LENGTH PER BAY. SEE TYPICAL DETAILS.

16. PROVIDE ALL TEMPORARY BRACING OF THE STEEL FRAME REQUIRED TO MAINTAIN PLUMBNESS AND STABILITY DURING CONSTRUCTION.

17. END CONNECTIONS OF FLOOR MEMBERS SHALL ACCOMMODATE END ROTATIONS OF SIMPLE, UNRESTRAINED BEAMS. INELASTIC ACTION IN THE CONNECTION IS PERMITTED.

18. COPED OR CUT ENDS OF MEMBERS SHALL BE REINFORCED WHERE REQUIRED TO SUSTAIN THE SPECIFIED REACTIONS.

19. FABRICATE AND ERECT FLOOR MEMBERS WITH NATURAL CAMBER UP.

20. STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATION, AND DIMENSIONS OF EXISTING WALLS AND FRAMING.

21. SHORING OF FLOOR MEMBERS TO CONTROL SLAB THICKNESS, FLOOR LEVEL AND OTHER TOLERANCES, AND CONCRETE PONDING IS THE CONTRACTOR'S OPTION. FLOORS SHALL BE PLACED SO AS TO MAINTAIN UNIFORM SLAB THICKNESS ACROSS THE TOP OF STEEL MEMBERS.

22. STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE DECK SUPPORT ANGLES AS REQUIRED.

23. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL, CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.

24. UNLESS SPECIFICALLY NOTED, STEEL DETAILS SHOWN ON THE DRAWINGS ARE FOR CONCEPT ONLY AND DO NOT INDICATE REQUIRED NUMBER OF BOLTS, SIZE OF WELDS, ETC. CONNECTION ARE TO BE DESIGNED BY THE STRUCTURAL STEEL SUB-CONTRACTOR AND CALCULATIONS ARE TO BE SIGNED AND SEALED AND SUBMITTED AS PART OF THE SHOP DRAWING PROCESS.

25. ALL MOMENT CONNECTIONS SHALL BE DESIGNED FOR THE FULL MOMENT CAPACITY OF THE MEMBER UNLESS OTHERWISE NOTED.

26. MEMBERS MAY ONLY BE SPLICED WHERE SPECIFICALLY DETAILED ON ACCEPTED SHOP DRAWINGS.

27. FIELD CUTTING OF STRUCTURAL STEEL IS NOT PERMITTED EXCEPT WITH THE PRIOR APPROVAL OF THE ENGINEER.

28. BOLTS, NUTS, AND WASHERS FOR STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE GALVANIZED.

29. ALL ALUMINUM AND STEEL MEMBERS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.

30. THE FOLLOWING FABRICATION AND ERECTION CONSIDERATIONS SHALL BE DISCUSSED AT A PRE-DETAILING CONFERENCE WITH THE STEEL CONTRACTOR:

a) STEEL COLUMN LENGTH ADJUSTMENT FOR ELASTIC SHORTENING EFFECTS.

b) ELEMENTS AFFECTED BY STEEL ERECTION PROCEDURE, SUCH AS MEMBER SIZES, CONNECTIONS, SPLICES, BASE PLATES, ANCHOR BOLTS, ROCK ANCHORS, ETC.

c) ERECTION PROCEDURES AND SEQUENCES WITH REGARD TO TEMPERATURE EFFECTS.

3

31. ALL EXISTING STRUCTURAL STEEL WHICH WILL BE EXPOSED DURING CONSTRUCTION WORK SHALL BE VISUALLY INSPECTED BY THE ENGINEER OF RECORD AND REPAIRED/REINFORCED IF NECESSARY. STEEL SURFACES SHALL BE CLEANED AND PAINTED. CLEAN ALL STEEL FIRST IN ACCORDANCE WITH THE FOLLOWING METHODS:

a) INTERIOR STEEL NOT EXPOSED TO VIEW - SSPC-SP2
b) EXTERIOR STEEL - SSPC-SP3

*ALLOWANCE FOR REINFORCING OF CONCEALED EXISTING STRUCTURAL STEEL ELEMENTS IS A STEEL PLATE 3/4" THICK x 7" WIDE x 50'-0" (LINEAR FEET)

32. BASED ON TESTING OF EXISTING STEEL MATERIAL, ASTM SPECIFICATION FOR STRUCTURAL STEEL IS A7-94T, YIELD POINT IS 33 KSI. PLAIN CARBON STEEL HAS EXCELLENT WELDABILITY. CLASS E6011 OR E7018 WELDING WELDING ELECTRODES PER AWS A5.1 MAY BE USED FOR WELDING. BOTH ELECTRODES ARE SUITABLE FOR SHIELDED METAL ARC WELDING (SMAW) IN ALL POSITIONS.

D - METAL DECK

1. METAL DECK HAS BEEN DESIGNED IN ACCORDANCE WITH THE "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STRUCTURAL STEEL MEMBERS ("AISI-NASPEC") AND COMPLIES WITH AND THE REQUIREMENTS SECTION BC 2209 OF THE NYS BUILDING CODE.

2. UNLESS NOTED OTHERWISE, FLOOR DECK UNITS SHALL BE 2" LOK-FLOOR GALVANIZED METAL DECK AND SHALL BE FORMED WITH INTEGRAL LOCKING LUGS TO PROVIDE A MECHANICAL BOND BETWEEN CONCRETE AND DECK.

3. MATERIAL FOR METAL DECK SHALL CONFORM TO ASTM A653 WITH A MINIMUM YIELD STRENGTH OF 40,000 PSI - SEE DRAWINGS FOR THICKNESS AND GAGE. MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE. METAL DECK FABRICATION AND INSTALLATION SHALL COMPLY WITH STEEL DECK INSTITUTE STANDARDS.

4. FLOOR DECK DESIGN

a) AS A FORM (BEFORE CONCRETE HAS ATTAINED DESIGN STRENGTH)

1) DECK CAN SAFELY SUPPORT THE FOLLOWING LOADING CONDITIONS WITHOUT EXCEEDING MAXIMUM PERMISSIBLE FIBER STRESS FOR THE SPANS SHOWN WITHOUT SHORING:

(a) DEAD LOAD OF WET CONCRETE, WEIGHT OF DECK, AND 20 PSF CONSTRUCTION LIVE LOAD.
(b) DEAD LOAD OF WET CONCRETE, WEIGHT OF DECK, AND A CONCENTRATED LOAD OF 150 LBS.

2) DEFLECTION OF FORM DUE TO DEAD LOAD OF CONCRETE AND DECK DOES NOT EXCEED L/180, BUT NOT MORE THAN 3/4".

3) PROVIDE SHORING OF METAL DECK IF IT IS REQUIRED BY THE METAL DECK MANUFACTURER AS INDICATED ON THE APPROVED SHOP DRAWINGS AND WHERE IT IS INDICATED ON PLANS.

b) AS A COMPOSITE SLAB (AFTER CONCRETE HAS ATTAINED DESIGN STRENGTH)

1) GAGE OF METAL DECK AS SHOWN ON THE DRAWINGS IS SUCH THAT THE COMPOSITE SLAB IS CAPABLE OF CARRYING THE TOTAL LOADS ON THE SPANS SHOWN WITHOUT EXCEEDING THE MAXIMUM PERMISSIBLE FIBER STRESS.

2) DEFLECTION OF THE COMPOSITE DECK DOES NOT EXCEED L/360 UNDER THE SUPERIMPOSED LIVE LOAD.

5. FOR OPENINGS IN DECK AND SUPPORT OF DECK AT COLUMNS, SEE TYPICAL DETAILS.

6. COMPOSITE METAL DECK SHALL BE PART OF A BSA OR MEA APPROVED FIRE-RATED ASSEMBLY, UL FIRE RATING IS D902.

7. EDGE STOPS SHALL BE PLACED WITHIN 1/4" OF THEORETICAL LOCATION.

8. UNLESS NOTED OTHERWISE, ALL METAL DECKING HAS BEEN DESIGNED FOR UNSHORED CONSTRUCTION. WHERE POSSIBLE, DECK SHALL EXTEND OVER TWO OR MORE SPANS.

9. DECK SUPPLIER SHALL FURNISH ALL SCREEDS, CLOSURES, POUR STOPS, COLUMN CLOSURES, CANT STRIPS, RIDGE AND VALLEY PLATES, SUMPS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION OF THE DECK.

10. COMPOSITE FLOOR DECK SHALL BE WELDED TO ALL SUPPORTING MEMBERS WITH 3/4" DIAMETER PUDDLE WELDS AT 12" O.C. U.O.N. FASTEN SIDE LAPS AS REQUIRED IN SPECIFICATIONS OR AS INDICATED ON PLAN.

11. ROOF DECK SHALL BE TYPE B OR AS INDICATED ON PLAN AND CONNECTED TO STRUCTURAL STEEL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS (4 WELDS PER 36" WIDE SHEET PER SUPPORT). FASTEN SIDE JOINTS TOGETHER WITH #10 SELF DRILLING SCREWS, OR WELD, AT MID-SPAN BETWEEN SUPPORTS.

12. IN AREAS OF WARPED ROOF DECK USE SELF DRILLING SCREWS FOR CONNECTIONS TO STRUCTURAL STEEL SUPPORTS. SCREW SIZES SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS, ATTACH DECK TO ALL SUPPORTING MEMBERS.

13. PROVIDE 2" MINIMUM LAPS AND END BEARING FOR ALL DECKING.

14. UNFRAMED OPENINGS, IN FLOOR OR ROOF DECKS, LARGER THAN 6" PERPENDICULAR TO THE SPAN SHALL BE REINFORCED PER TYPICAL DETAILS.

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STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER

CONTRACT:
CONSTRUCTION

TITLE: PHASE 1 WORK:
DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT:
NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE:
GENERAL STRUCTURAL NOTES I

BUILDING NUMBER: 102
DRAWING NUMBER: S-001
SHEET

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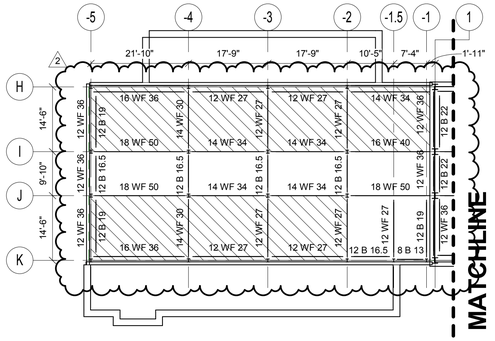
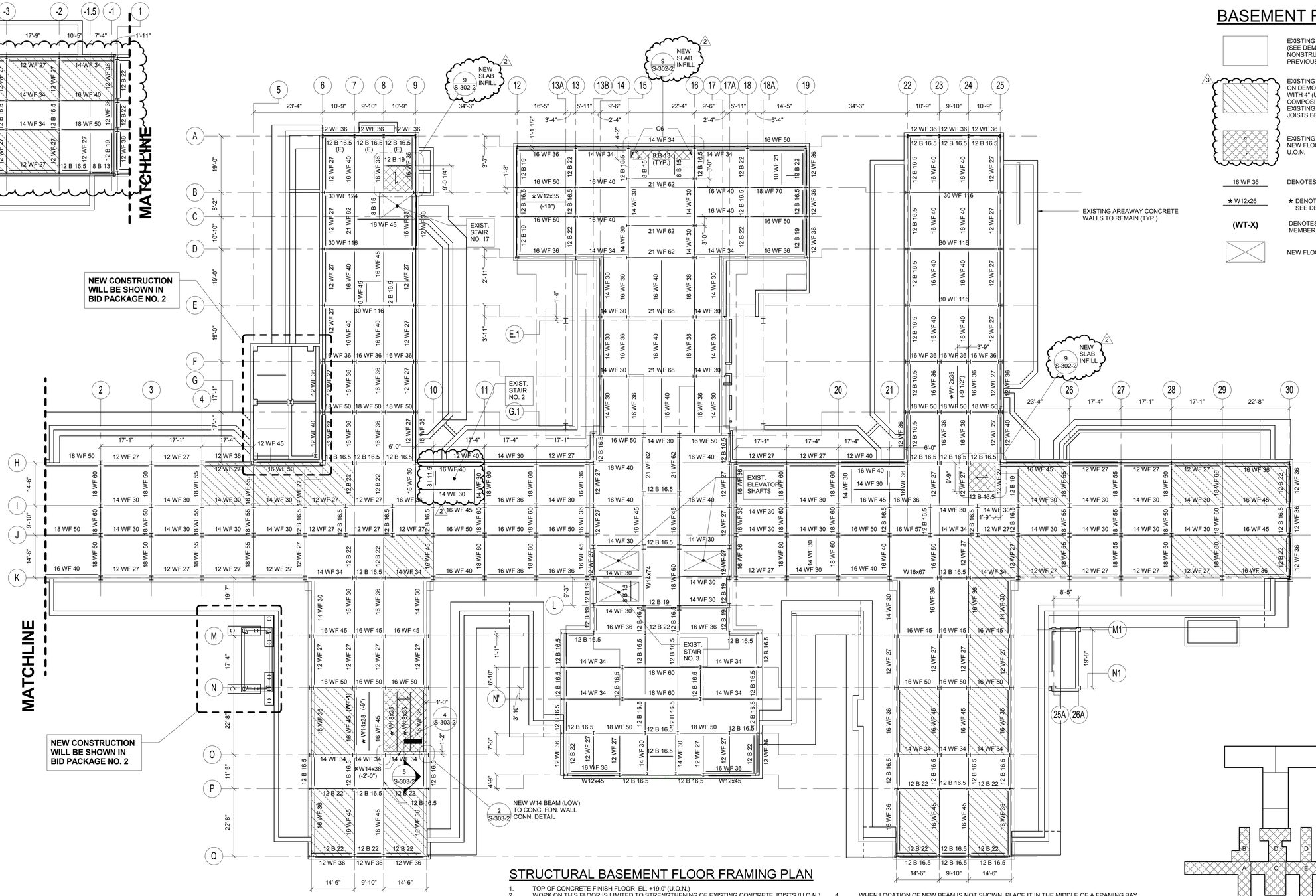


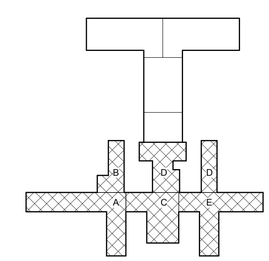
BASEMENT FLOOR LEGEND

- EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)
- 3 — EXISTING 4" CONCRETE FILL REMOVED AS SHOWN ON DEMOLITION DWG. SD-100-2 TO BE REPLACED WITH 4" (U.O.N) LIGHT WEIGHT CONCRETE COMPOSITE TOPPING (SEE DETAIL 5/S-301-2). EXISTING CINDER FILLER BLOCKS AND CONC. JOISTS BELOW TO REMAIN
- EXISTING FLOOR OPENING TO BE INFILLED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- ★ W12x26 — ★ DENOTES NEW FLOOR BEAM SEE DETAIL 4/S-301-2
- (WT-X) — DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2
- NEW FLOOR OPENING (U.O.N.)



STRUCTURAL BASEMENT FLOOR FRAMING PLAN

1. TOP OF CONCRETE FINISH FLOOR EL. +19.0' (U.O.N.)
2. WORK ON THIS FLOOR IS LIMITED TO STRENGTHENING OF EXISTING CONCRETE JOISTS (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR EXISTING FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE CONDITION #1 ON DETAIL 1/SD-001, AND DETAIL 2/SD-001.
3. REFER TO DETAIL 6/S-302-2 FOR NEW COMPOSITE CONCRETE FLOOR TOPPING.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.



PROJECT NORTH

SCALE: 1/16" = 1'-0"

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CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

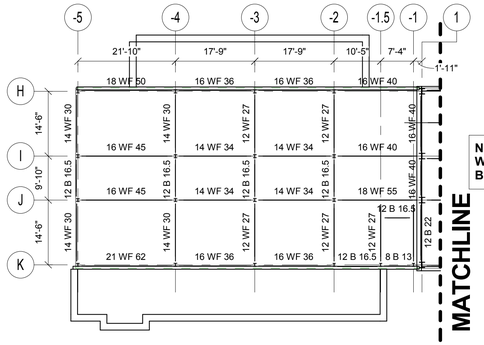
PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

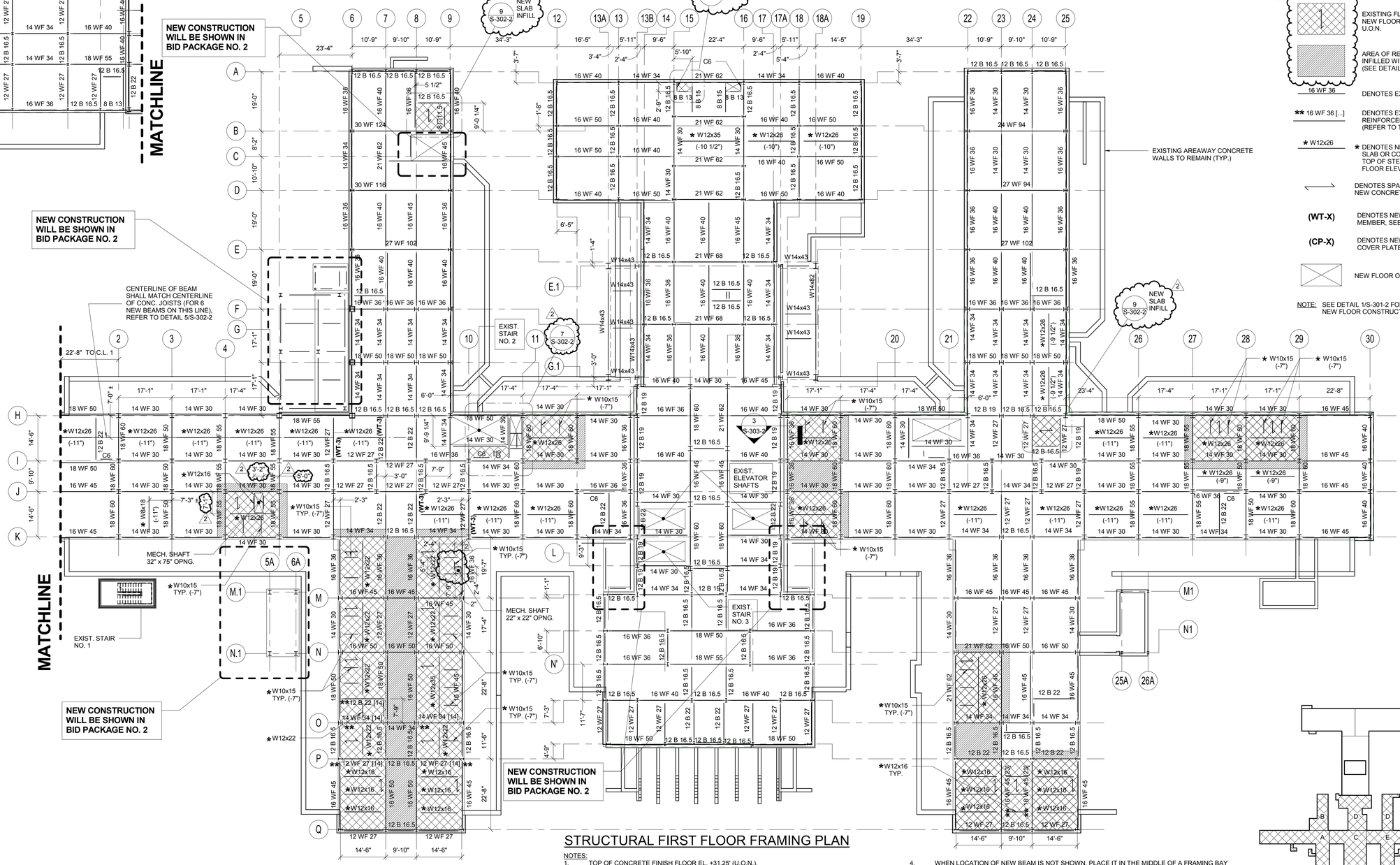
SHEET TITLE: STRUCTURAL BASEMENT FLOOR FRAMING PLAN

BUILDING NUMBER: 102

DRAWING NUMBER: S-100-2

SHEET





STRUCTURAL FIRST FLOOR FRAMING PLAN

NOTES:

1. TOP OF CONCRETE FINISH FLOOR EL. +31.25' (U.O.N.).
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF 6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.

TYPICAL FLOOR LEGEND

- EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)
- EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.
- AREA OF REMOVED CONCRETE FLOOR FILL TO BE INFILLED WITH NEW REINFORCED L.W. CONCRETE (SEE DETAIL 3/S-301-2)
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- ** 16 WF 36 [...] — DENOTES EXISTING FLOOR BEAM TO REMAIN AND BE REINFORCED WITH WELDED SHEAR STUDS (REFER TO TYPICAL FLOOR RECONSTRUCTION DETAILS)
- * W12x26 — * DENOTES NEW FLOOR BEAM UNDER SOLID CONC. SLAB OR CONC. JOISTS, SEE DETAILS 1 & 4/S-301-2, TOP OF STEEL ELEVATIONS IS 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
- DENOTES SPAN DIRECTION OF METAL DECK FOR NEW CONCRETE SLAB, SEE DETAIL 1/S-301-2
- (WT-X) — DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2
- (CP-X) — DENOTES NEW WELDED REINFORCING COVER PLATE, SEE DETAIL 1/S-303-2
- NEW FLOOR OPENING (U.O.N.)

NOTE: SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.

PROJECT NORTH

0 8' 16' 32'

SCALE: 1/16" = 1'-0"

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3	7-17-2014	ADDENDUM NO. 3
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PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL FIRST FLOOR FRAMING PLAN

BUILDING NUMBER: 102

DRAWING NUMBER: S-101-2

SHEET

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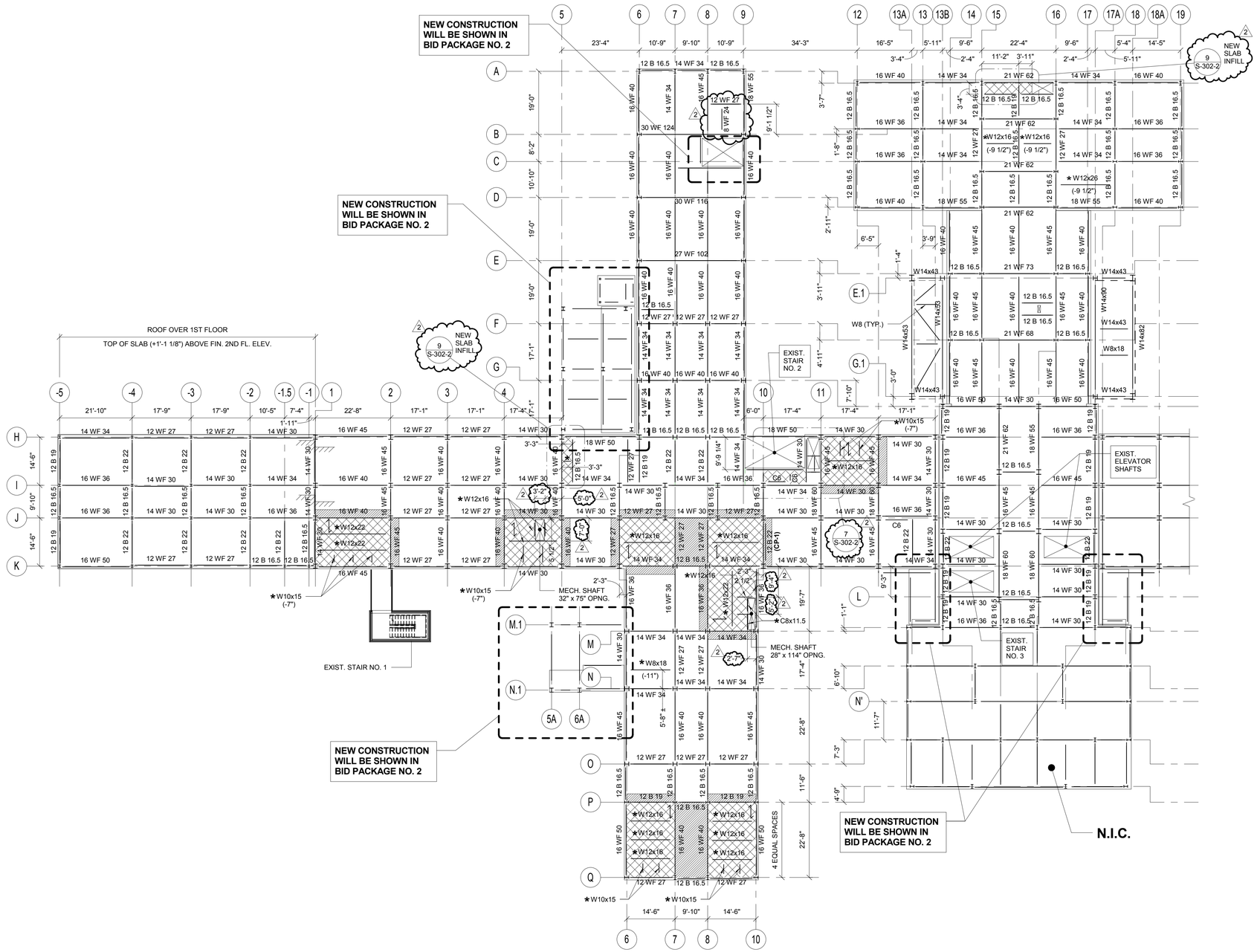


STRUCTURAL SECOND FLOOR FRAMING PLAN

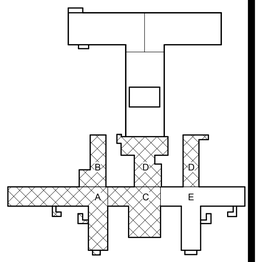
NOTES:

1. TOP OF CONCRETE FINISH FLOOR EL. +43.50' (U.O.N.)
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.

TYPICAL FLOOR LEGEND

- EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)
- EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.
- AREA OF REMOVED CONCRETE FLOOR FILL TO BE INFILLED WITH NEW REINFORCED L.W. CONCRETE (SEE DETAIL 3/S-301-2)
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- ** 16 WF 36 [...] — DENOTES EXISTING FLOOR BEAM TO REMAIN AND BE REINFORCED WITH WELDED SHEAR STUDS (REFER TO TYPICAL FLOOR RECONSTRUCTION DETAILS)
- * W12x26 — * DENOTES NEW FLOOR BEAM UNDER SOLID CONC. SLAB OR CONC. JOISTS, SEE DETAILS 1 & 4/S-301-2, TOP OF STEEL ELEVATIONS IS 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
- DENOTES SPAN DIRECTION OF METAL DECK FOR NEW CONCRETE SLAB, SEE DETAIL 1/S-301-2
- (WT-X) — DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2
- (CP-X) — DENOTES NEW WELDED REINFORCING COVER PLATE, SEE DETAIL 1/S-303-2
- NEW FLOOR OPENING (U.O.N.)

NOTE: SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



PROJECT NORTH

0 8' 16' 32'

SCALE: 1/16" = 1'-0"

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CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

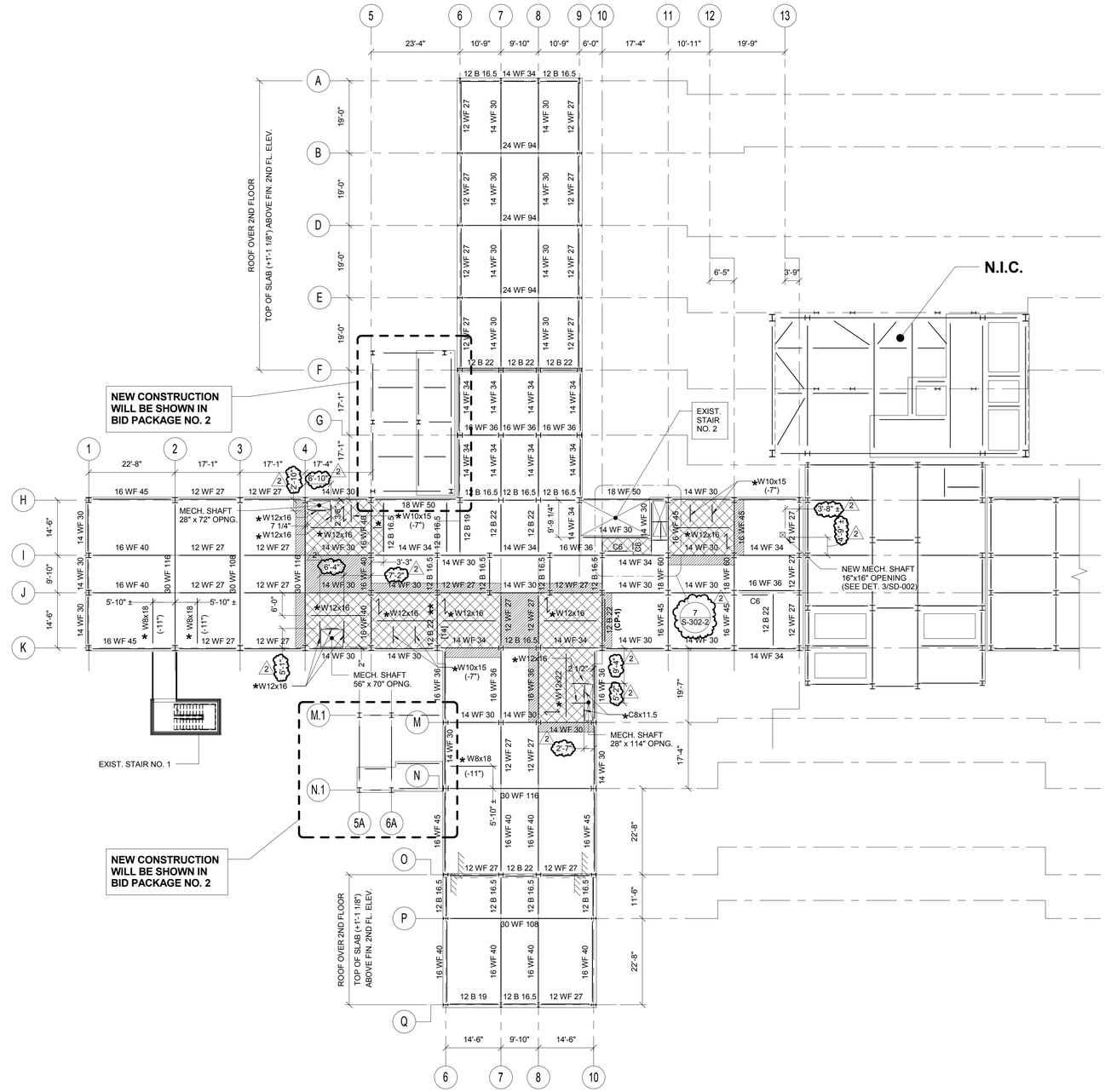
SHEET TITLE: STRUCTURAL SECOND FLOOR FRAMING PLAN

BUILDING NUMBER: 102

DRAWING NUMBER: S-102-2

SHEET

7/16/2014 6:11:07 PM



STRUCTURAL THIRD FLOOR FRAMING PLAN

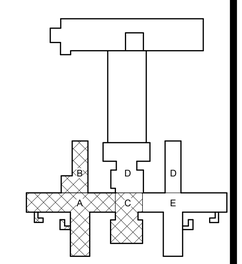
NOTE:

1. TOP OF CONCRETE FINISH FLOOR EL. +55.75' (U.O.N.)
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.

TYPICAL FLOOR LEGEND

- EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)
- EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.
- AREA OF REMOVED CONCRETE FLOOR FILL TO BE INFILLED WITH NEW REINFORCED L.W. CONCRETE (SEE DETAIL 3/S-301-2)
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- ** 16 WF 36 [...] — DENOTES EXISTING FLOOR BEAM TO REMAIN AND BE REINFORCED WITH WELDED SHEAR STUDS (REFER TO TYPICAL FLOOR RECONSTRUCTION DETAILS)
- * W12x26 — * DENOTES NEW FLOOR BEAM UNDER SOLID CONC. SLAB OR CONC. JOISTS, SEE DETAILS 1 & 4/S-301-2, TOP OF STEEL ELEVATIONS IS 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
- DENOTES SPAN DIRECTION OF METAL DECK FOR NEW CONCRETE SLAB, SEE DETAIL 1/S-301-2
- **(WT-X)** DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2
- **(CP-X)** DENOTES NEW WELDED REINFORCING COVER PLATE, SEE DETAIL 1/S-303-2
- NEW FLOOR OPENING (U.O.N.)

NOTE: SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



PROJECT NORTH

0 8' 16' 32'

SCALE: 1/16" = 1'-0"

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CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL THIRD FLOOR FRAMING PLAN

BUILDING NUMBER: 102

DRAWING NUMBER: S-103-2

SHEET

7/16/2014 6:11:10 PM

TYPICAL FLOOR LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)

EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.

AREA OF REMOVED CONCRETE FLOOR FILL TO BE INFILLED WITH NEW REINFORCED L.W. CONCRETE (SEE DETAIL 3/S-301-2)

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN

** 16 WF 36 [...] — DENOTES EXISTING FLOOR BEAM TO REMAIN AND BE REINFORCED WITH WELDED SHEAR STUDS (REFER TO TYPICAL FLOOR RECONSTRUCTION DETAILS)

* W12x26 — * DENOTES NEW FLOOR BEAM UNDER SOLID CONC. SLAB OR CONC. JOISTS, SEE DETAILS 1 & 4/S-301-2, TOP OF STEEL ELEVATIONS IS 6" BELOW FINISH FLOOR ELEVATION, U.O.N.

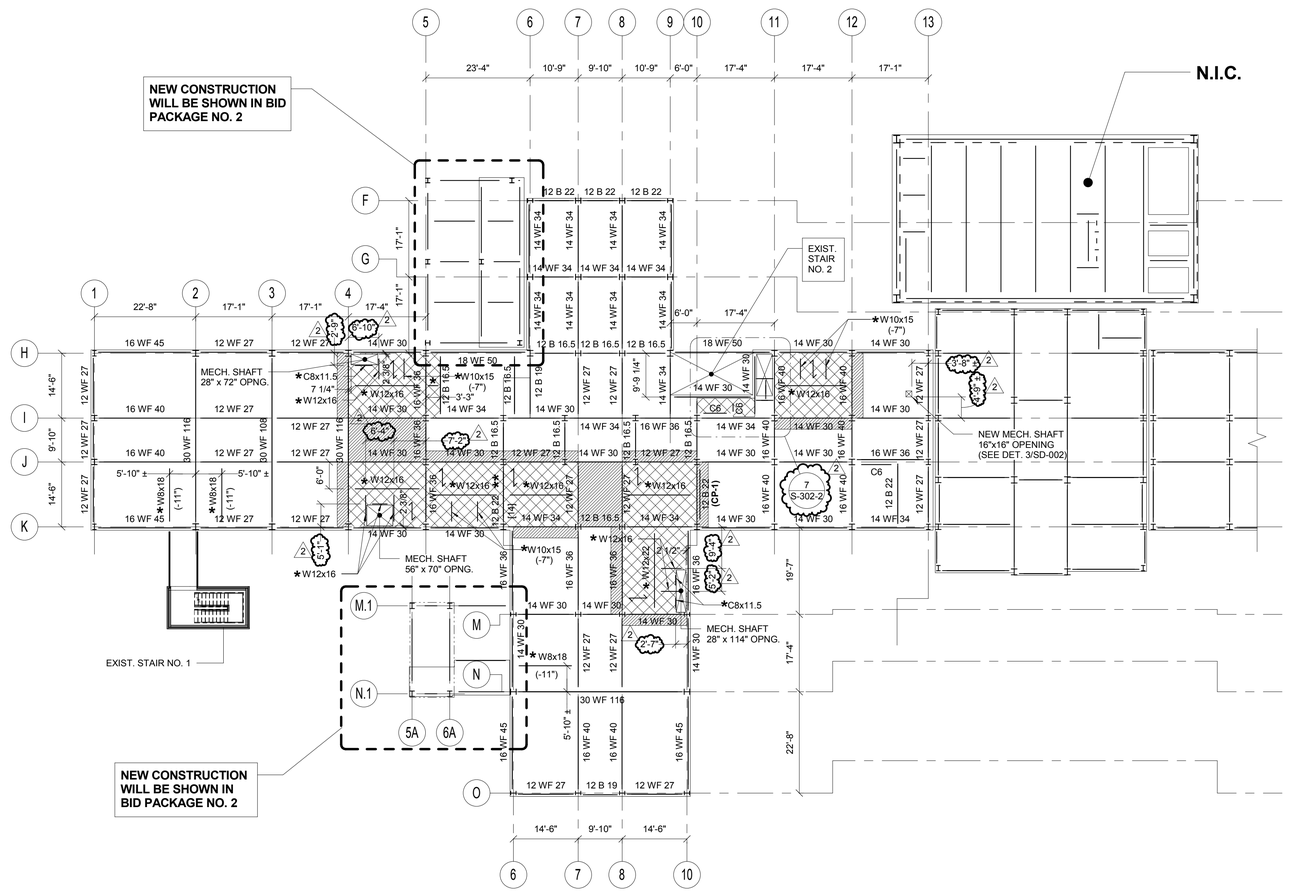
DENOTES SPAN DIRECTION OF METAL DECK FOR NEW CONCRETE SLAB, SEE DETAIL 1/S-301-2

(WT-X) DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2

(CP-X) DENOTES NEW WELDED REINFORCING COVER PLATE, SEE DETAIL 1/S-303-2

NEW FLOOR OPENING (U.O.N.)

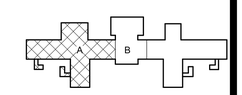
NOTE: SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



STRUCTURAL FOURTH AND FIFTH FLOOR FRAMING PLAN

NOTE:

1. 4TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +68.00' (U.O.N.)
   5TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +80.25' (U.O.N.)
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF 6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.



PROJECT NORTH

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL FOURTH AND FIFTH FLOOR FRAMING PLAN

BUILDING NUMBER: 102

DRAWING NUMBER: S-104-2

SHEET

7/16/2014 6:11:13 PM

TYPICAL FLOOR LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)

EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.

AREA OF REMOVED CONCRETE FLOOR FILL TO BE INFILLED WITH NEW REINFORCED L.W. CONCRETE (SEE DETAIL 3/S-301-2)

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN

** 16 WF 36 [...] — DENOTES EXISTING FLOOR BEAM TO REMAIN AND BE REINFORCED WITH WELDED SHEAR STUDS (REFER TO TYPICAL FLOOR RECONSTRUCTION DETAILS)

* W12x26 — * DENOTES NEW FLOOR BEAM UNDER SOLID CONC. SLAB OR CONC. JOISTS, SEE DETAILS 1 & 4/S-301-2, TOP OF STEEL ELEVATIONS IS 6" BELOW FINISH FLOOR ELEVATION, U.O.N.

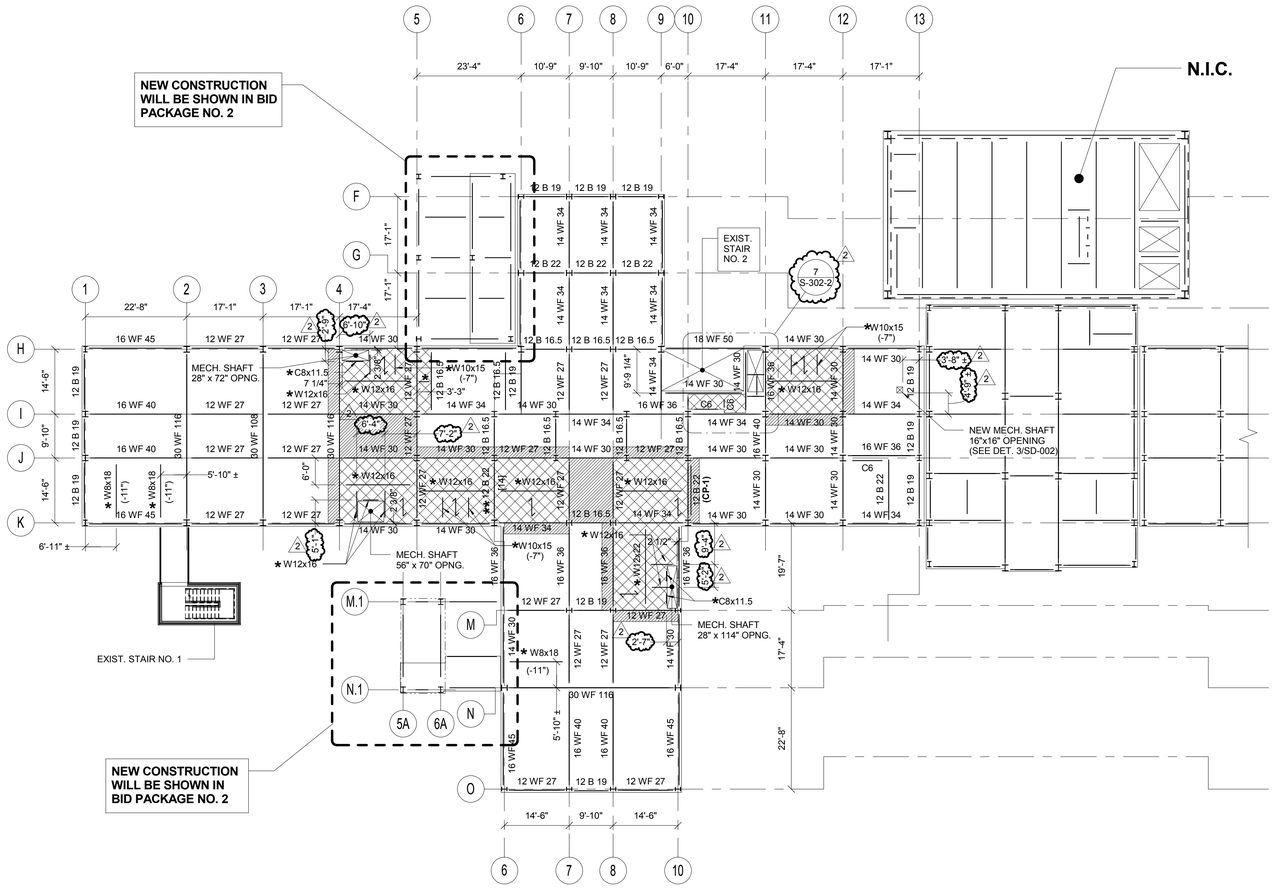
DENOTES SPAN DIRECTION OF METAL DECK FOR NEW CONCRETE SLAB, SEE DETAIL 1/S-301-2

(WT-X) — DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2

(CP-X) — DENOTES NEW WELDED REINFORCING COVER PLATE, SEE DETAIL 1/S-303-2

NEW FLOOR OPENING (U.O.N.)

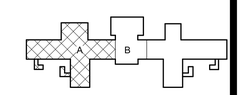
NOTE: SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



STRUCTURAL SIXTH, SEVENTH, AND EIGHTH FLOOR FRAMING PLAN

NOTES:

1. 6TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +92.50' (U.O.N.)
   7TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +104.75 (U.O.N.)
   8TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +117.00 (U.O.N.)
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF 6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.



PROJECT NORTH

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL SIXTH, SEVENTH, AND EIGHTH FLOOR FRAMING PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: S-105-2
SHEET

7/16/2014 6:11:16 PM

TYPICAL FLOOR LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)

EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.

AREA OF REMOVED CONCRETE FLOOR FILL TO BE INFILLED WITH NEW REINFORCED L.W. CONCRETE (SEE DETAIL 3/S-301-2)

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN

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* W12x26 — * DENOTES NEW FLOOR BEAM UNDER SOLID CONC. SLAB OR CONC. JOISTS, SEE DETAILS 1 & 4/S-301-2, TOP OF STEEL ELEVATIONS IS 6" BELOW FINISH FLOOR ELEVATION, U.O.N.

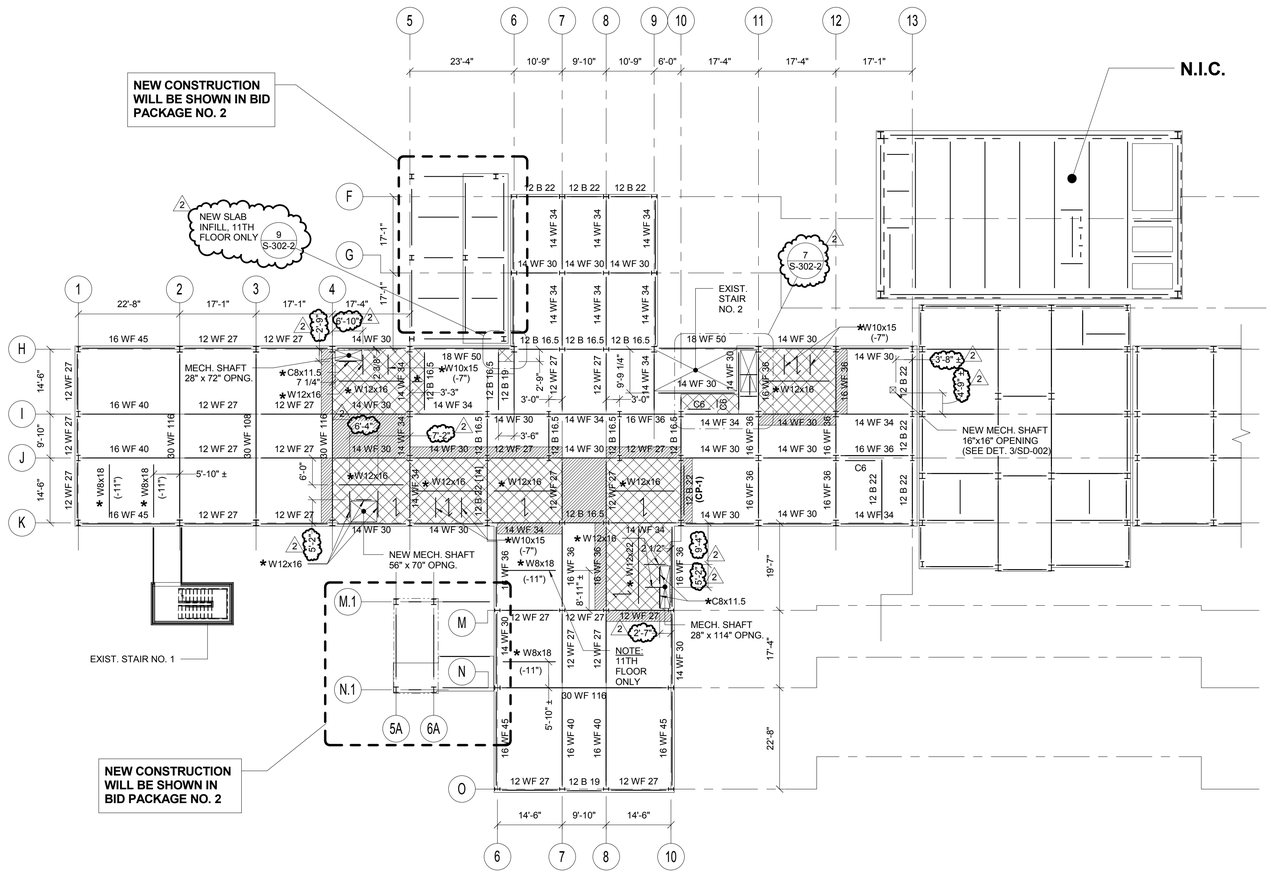
DENOTES SPAN DIRECTION OF METAL DECK FOR NEW CONCRETE SLAB, SEE DETAIL 1/S-301-2

(WT-X) DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2

(CP-X) DENOTES NEW WELDED REINFORCING COVER PLATE, SEE DETAIL 1/S-303-2

NEW FLOOR OPENING (U.O.N.)

NOTE: SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



STRUCTURAL NINTH, TENTH AND ELEVENTH FLOOR FRAMING PLAN

NOTE:

1. 9TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +129.25' (U.O.N.)
   10TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +141.50' (U.O.N.)
   11TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +153.75' (U.O.N.)
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
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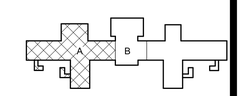

PROJECT NORTH

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL NINTH, TENTH AND ELEVENTH FLOOR FRAMING PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: S-106-2
SHEET

7/16/2014 6:11:17 PM

TYPICAL FLOOR LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)

EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.

AREA OF REMOVED CONCRETE FLOOR FILL TO BE INFILLED WITH NEW REINFORCED L.W. CONCRETE (SEE DETAIL 3/S-301-2)

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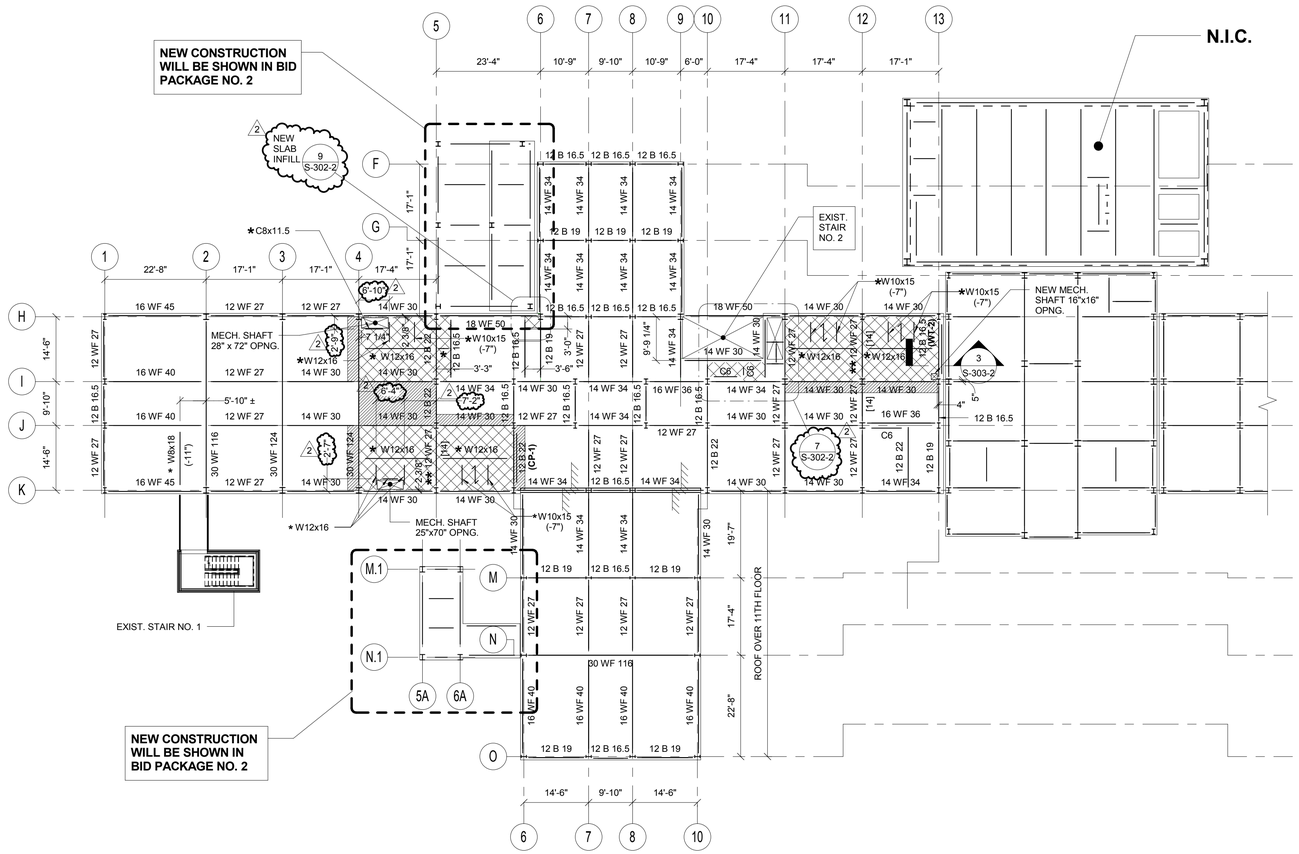
DENOTES SPAN DIRECTION OF METAL DECK FOR NEW CONCRETE SLAB, SEE DETAIL 1/S-301-2

(WT-X) DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2

(CP-X) DENOTES NEW WELDED REINFORCING COVER PLATE, SEE DETAIL 1/S-303-2

NEW FLOOR OPENING (U.O.N.)

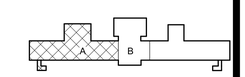
NOTE: SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



STRUCTURAL TWELFTH FLOOR FRAMING PLAN

NOTES:

1. TOP OF CONCRETE FINISH FLOOR EL. + 166.0' (U.O.N.)
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA. SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.



PROJECT NORTH

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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STATE OF NEW YORK — MICHAEL J. SCHUMACHER — LICENSED PROFESSIONAL ENGINEER

CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

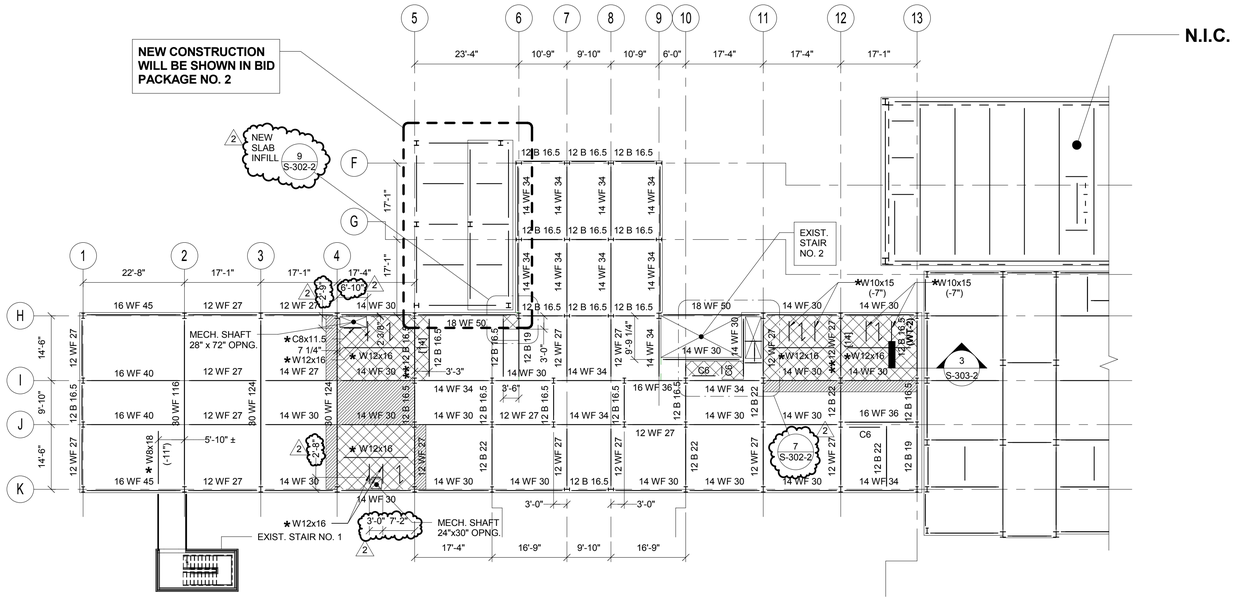
MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL TWELFTH FLOOR FRAMING PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: S-107-2
SHEET

7/16/2014 6:11:19 PM

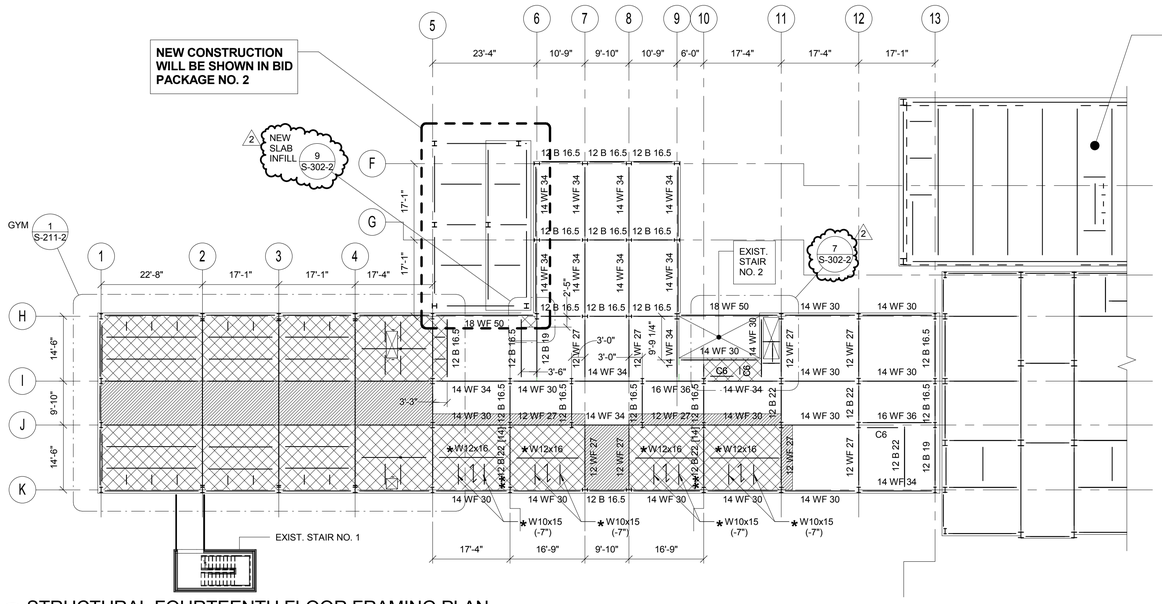


1 STRUCTURAL THIRTEENTH FLOOR FRAMING PLAN

1/16" = 1'-0"

NOTES:

1. TOP OF CONCRETE FINISH FLOOR EL. +178.25'
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.



2 STRUCTURAL FOURTEENTH FLOOR FRAMING PLAN

1/16" = 1'-0"

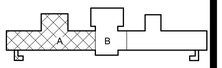
NOTES:

1. TOP OF CONCRETE FINISH FLOOR EL. +190.50'
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.

TYPICAL FLOOR LEGEND

- EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)
- EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.
- AREA OF REMOVED CONCRETE FLOOR FILL TO BE INFILLED WITH NEW REINFORCED L.W. CONCRETE (SEE DETAIL 3/S-301-2)
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- ** 16 WF 36 [...] — DENOTES EXISTING FLOOR BEAM TO REMAIN AND BE REINFORCED WITH WELDED SHEAR STUDS (REFER TO TYPICAL FLOOR RECONSTRUCTION DETAILS)
- * W12x26 — * DENOTES NEW FLOOR BEAM UNDER SOLID CONC. SLAB OR CONC. JOISTS, SEE DETAILS 1 & 4/S-301-2, TOP OF STEEL ELEVATIONS IS 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
- DENOTES SPAN DIRECTION OF METAL DECK FOR NEW CONCRETE SLAB, SEE DETAIL 1/S-301-2
- (WT-X) — DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2
- (CP-X) — DENOTES NEW WELDED REINFORCING COVER PLATE, SEE DETAIL 1/S-303-2
- NEW FLOOR OPENING (U.O.N.)

NOTE: SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



PROJECT NORTH

0 8' 16' 32'

SCALE: 1/16" = 1'-0"

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STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER

CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

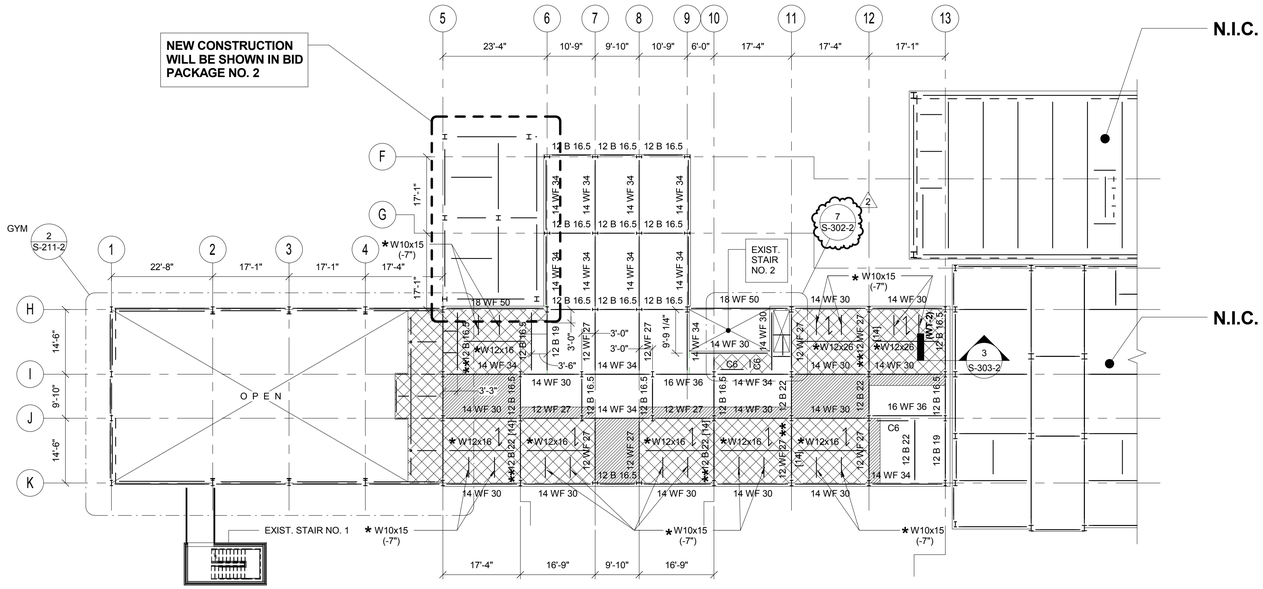
SHEET TITLE:

STRUCTURAL THIRTEENTH AND FOURTEENTH FLOOR FRAMING PLANS

BUILDING NUMBER: 102

DRAWING NUMBER: S-108-2

SHEET

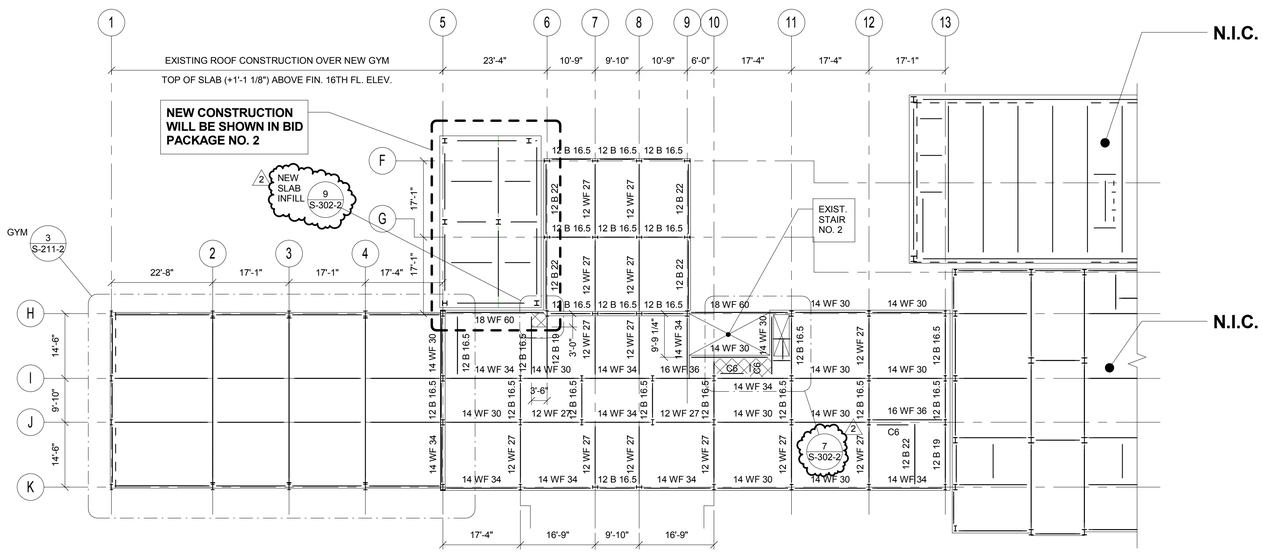


1 STRUCTURAL FIFTEENTH FLOOR FRAMING PLAN

1/16" = 1'-0"

NOTE:

1. TOP OF CONCRETE FINISHED FLOOR EL. +202.75
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.



2 STRUCTURAL SIXTEENTH FLOOR FRAMING PLAN

1/16" = 1'-0"

NOTES:

1. TOP OF CONCRETE FINISH FLOOR EL. +215.00'
2. NEW CONCRETE SLAB CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF6x6 W2.0xW2.0 OVER 2" COMPOSITE METAL DECK LOCK FLOOR 20GA BY USD.
3. WORK ON THIS FLOOR IS LIMITED TO STRENGHTENING OF EXISTING CONCRETE FLOOR (U.O.N.). THE AREA OF WORK IS SHOWN ON THIS DRAWING AS A HATCHED AREA, SEE SHEET LEGEND. FOR THE FLOOR CONSTRUCTION IN THE AREA OF STRENGTHENING, SEE DETAILS 1, 2, 3, 7/S-301-2.
4. WHEN LOCATION OF NEW BEAM IS NOT SHOWN, PLACE IT IN THE MIDDLE OF A FRAMING BAY (BASED ON CENTERLINE OF COLUMNS), OR EQUAL SPACING.
5. TOP OF EXISTING STEEL ELEVATION 6" BELOW FINISH FLOOR ELEVATION, U.O.N.
6. SYMBOL (-11") INDICATES TOP OF NEW STEEL BEAM DISTANCE WITH REFERENCE TO FINISH FLOOR ELEVATION.
7. ALL EXISTING STEEL BEAMS ARE ENCASED IN CONCRETE. FOR NEW BEAM CONNECTION TO EXIST. BEAM, ENCASEMENT SHALL BE REMOVED LOCALLY AND PATCHED AFTER INSTALLATION.

TYPICAL FLOOR LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN (SEE DEMOLITION PLANS FOR AREAS OF NEW NONSTRUCTURAL L.W. CONCRETE TOPPING AT PREVIOUSLY REMOVED CERAMIC AND QUARRY TILE)

EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2), U.O.N.

AREA OF REMOVED CONCRETE FLOOR FILL TO BE INFILLED WITH NEW REINFORCED L.W. CONCRETE (SEE DETAIL 3/S-301-2)

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN

** 16 WF 36 [...] — DENOTES EXISTING FLOOR BEAM TO REMAIN AND BE REINFORCED WITH WELDED SHEAR STUDS (REFER TO TYPICAL FLOOR RECONSTRUCTION DETAILS)

* W12x26 — * DENOTES NEW FLOOR BEAM UNDER SOLID CONC. SLAB OR CONC. JOISTS, SEE DETAILS 1 & 4/S-301-2; TOP OF STEEL ELEVATIONS IS 6" BELOW FINISH FLOOR ELEVATION, U.O.N.

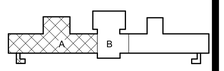
DENOTES SPAN DIRECTION OF METAL DECK FOR NEW CONCRETE SLAB, SEE DETAIL 1/S-301-2

(WT-X) DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2

(CP-X) DENOTES NEW WELDED REINFORCING COVER PLATE, SEE DETAIL 1/S-303-2

NEW FLOOR OPENING (U.O.N.)

NOTE: SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



PROJECT NORTH

0 8' 16' 32'

SCALE: 1/16" = 1'-0"

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STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER

CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE:
STRUCTURAL FIFTEENTH AND SIXTEENTH FLOOR FRAMING PLANS

BUILDING NUMBER: 102

DRAWING NUMBER: S-109-2

SHEET

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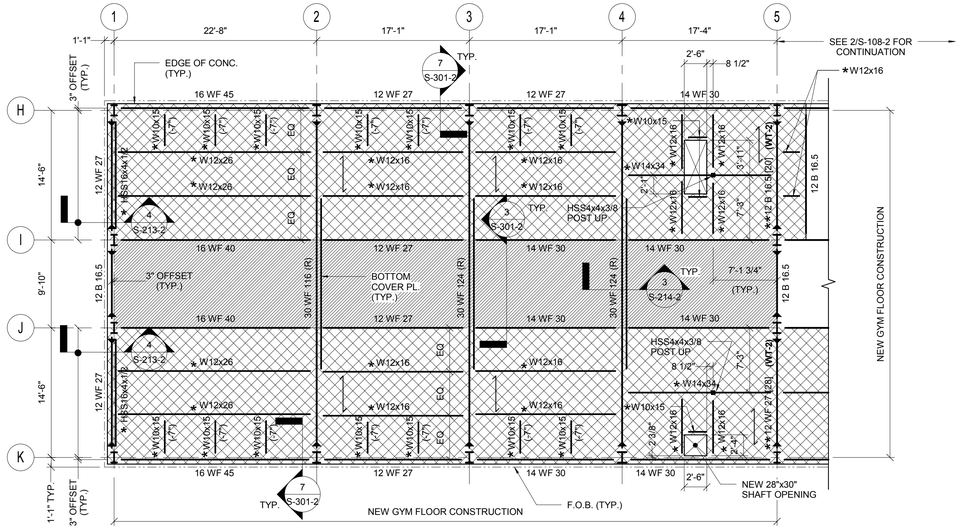
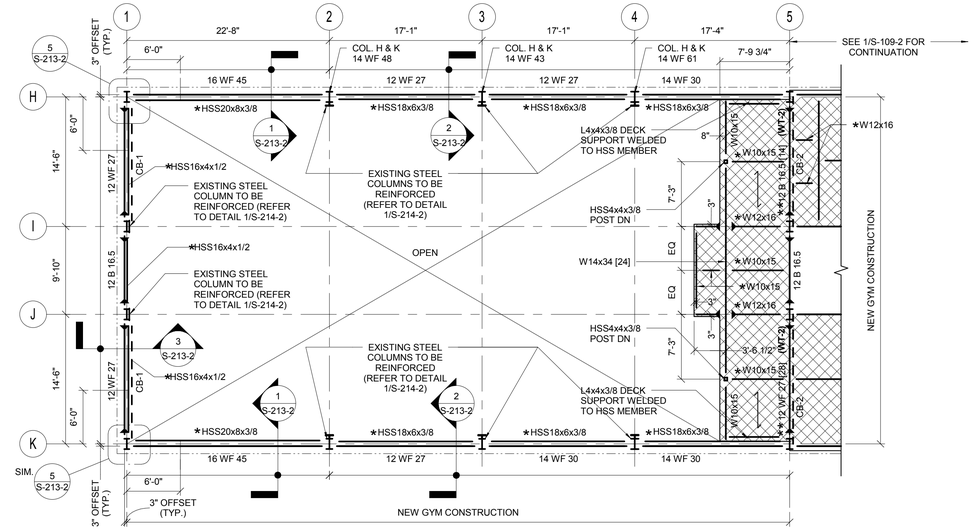


1 PART 14TH FLOOR FRAMING PLAN - GYM RECONSTRUCTION

1/8" = 1'-0"

NOTES:

1. TOP OF EXISTING FLOOR ELEVATION +190.5'.
2. TOP OF EXISTING STEEL ELEVATION +190.0" U.O.N., THUS (± . . . .) INDICATES TOP OF STEEL DISTANCE FROM EL. +190.0'.
3. TOP OF NEW STEEL ELEVATION +190.0" U.O.N., THUS (± . . . .) INDICATES TOP OF STEEL DISTANCE FROM EL. +190.0'.
4. SEE 1/SD-211-2 FOR DEMOLITION PLAN IN THE AREA OF WORK.
5. NEW FLOOR CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE SLAB OVER 2", 20 GA. GALV. METAL DECK REINFORCED WITH WWF 6 x 6 W2.0 x W2.0, INDICATED ⟷ THUS ON PLAN.
6. SYMBOLS ★ INDICATES NEW STEEL BEAM.
7. (R) DENOTES EXISTING WF BEAM TO BE REINFORCED WITH BOTTOM STEEL COVER PLATE. REFER TO DETAIL 3/S-214-2.

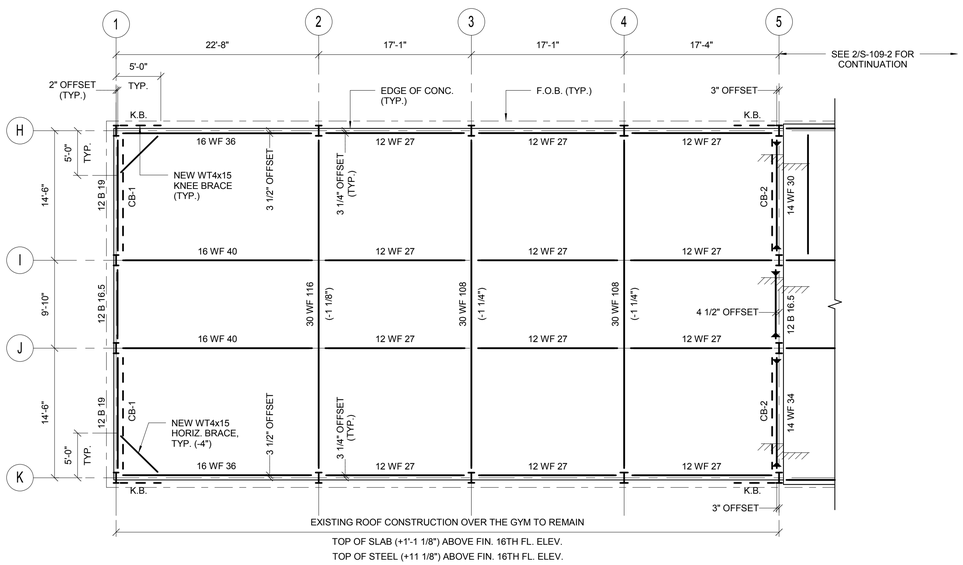


2 PART 15TH FLOOR FRAMING PLAN - GYM RECONSTRUCTION

1/8" = 1'-0"

NOTES:

1. TOP OF EXISTING FLOOR ELEVATION +202.75'.
2. TOP OF EXISTING STEEL ELEVATION +202.25'.
3. DIAGONAL VERTICAL BRACING SHALL BE INSTALLED WHERE INDICATED _ CB _ . REFER TO SHEET S-212-2 FOR FRAMING ELEVATIONS.
4. SEE 2/SD-221-2 FOR DEMOLITION PLAN IN THE AREA OF WORK.
5. SEE 3/S-211-2 FOR GYM ROOF PART FRAMING PLAN ON 16TH FLOOR.
6. NEW FLOOR CONSTRUCTION IS 4" LIGHTWEIGHT CONCRETE SLAB OVER 2", 20 GA. GALV. METAL DECK REINFORCED WITH WWF 6 x 6 W2.0 x W2.0, INDICATED ⟷ THUS ON PLAN.



3 PART 16TH FLOOR/ROOF FRAMING PLAN - GYM RECONSTRUCTION

1/8" = 1'-0"

NOTES:

1. TOP OF EXISTING CONCRETE ROOF ELEVATION +216.09'.
2. TOP OF NEW STEEL ELEVATION +215.93' U.O.N., THUS (± . . . .) INDICATES TOP OF STEEL DISTANCE FROM EL. +215.93'
3. SEE 3/SD-211-2 FOR DEMOLITION WORK.
4. DIAGONAL VERTICAL BRACING BELOW SHALL BE INSTALLED WHERE INDICATED _ CB _ . REFER TO SHEET S-212-2 FOR FRAMING ELEVATIONS.

DRAWING LEGEND

	EXISTING FLOOR CONSTRUCTION TO REMAIN
	EXISTING FLOOR SLAB TO BE REPLACED WITH NEW FLOOR CONSTRUCTION (SEE DETAIL 1/S-301-2)
	NEW 4" REINFORCED CONCRETE TOPPING OVER EXISTING CONCRETE SLAB
16 WF 36	DENOTES EXISTING FLOOR BEAM TO REMAIN
* W12x26	* DENOTES NEW FLOOR BEAM SEE DETAIL 2/S-106-2
** W12x26 [...]	** DENOTES NEW FLOOR BEAM WITH WELDED SHEAR STUDS (SEE DETAIL 2/S-106-2)
⟷	DENOTES SPAN DIRECTION OF NEW CONCRETE SLAB SEE DETAIL 2/S-106-2
▶—	DENOTES EXISTING BEAM END MOMENT CONNECTION
(WT-X)	DENOTES NEW WELDED WT REINFORCING MEMBER, SEE DETAIL 1/S-303-2

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CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

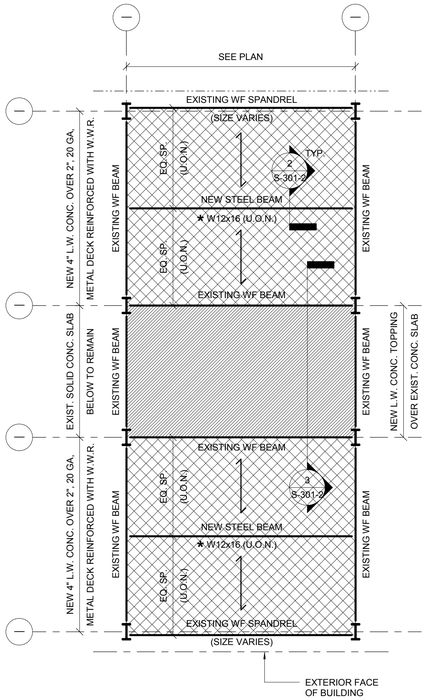
MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: GYM FRAMING PLANS

BUILDING NUMBER: 102
DRAWING NUMBER: S-211-2
SHEET

7/16/2014 6:11:54 PM



1 TYPICAL NEW FLOOR CONSTRUCTION DETAIL
NOT TO SCALE

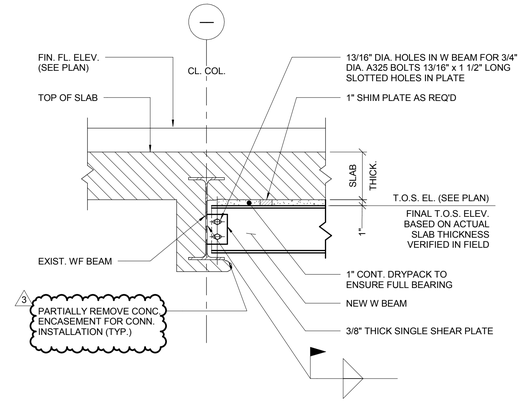
NOTE: SEE STRUCTURAL FLOOR PLANS FOR ACTUAL AREAS OF EXISTING SLAB REPLACEMENT. PLAN ABOVE FOR INFORMATION ONLY.

SUGGESTED SEQUENCE FOR NEW CONSTRUCTION
(SEE TEMPORARY BRACING PLAN 1/SD-002)

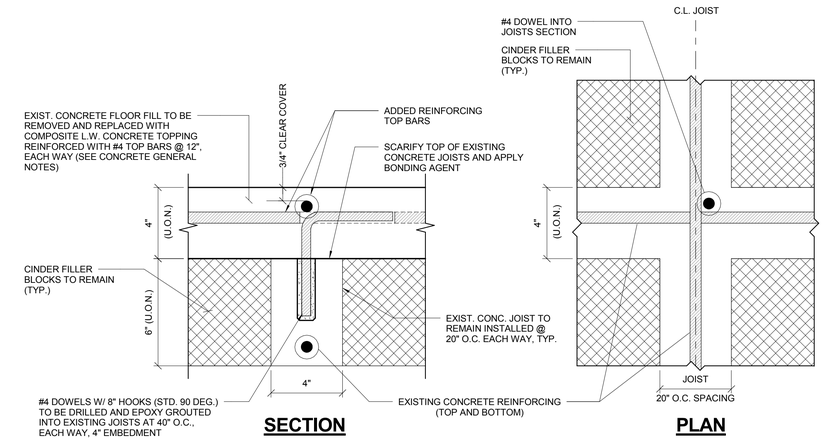
1. INSTALL THE TEMPORARY HORIZONTAL STEEL WT6 BRACING UNDER THE EXISTING STEEL FLOOR FRAMING AS SHOWN ON DETAIL 2/SD-002, CONNECTING TO THE EXISTING BEAMS AT EACH END IN THE AREA OF NEW FLOOR CONSTRUCTION.
2. INSTALL METAL DECK, TYPE NS 16 GA, PLATFORM AT THE LEVEL OF THE BOTTOM FLANGE OF STEEL BEAMS TO SUPPORT DEMOLISHED CONCRETE AND SECURE DECK TO SUPORTING BEAMS. REUSE OF DECK IS POSSIBLE.
3. PROVIDE TEMPORARY ERECTION BRACING FOR EXISTING STEEL COLUMNS PRIOR TO CONCRETE FLOOR DEMOLITION.
4. DEMOLISH THE TWO-WAY CONCRETE JOIST SYSTEM IN THE FRAMING BAY. FIRST, REMOVE CONCRETE FILL AND DISPOSE OF IT BEFORE CONTINUING WITH THE JOISTS. REMOVE CONCRETE FILL IN ADJACENT BAY AREAS IF INDICATE ON THE DEMOLITION PLANS.
5. INSTALL NEW STEEL BEAMS AS SHOWN ON FRAMING PLANS.
6. INSTALL NEW METAL DECK OVER EXISTING AND NEW SUPPORTING STEEL BEAMS CONNECTED WITH PUDDLE WELDS AND STEEL SCREW SIDELAPS.
7. POUR CONCRETE OVER NEW METAL DECK TO PROVIDE COMPOSITE FLOOR CONSTRUCTION.
8. FOLLOW REQUIREMENTS INDICATED IN NOTES NO. G10, G12, AND G14 ON DRAWING SD-001.

DESCRIPTION OF OF THE LATERAL LOAD RESISTING SYSTEM

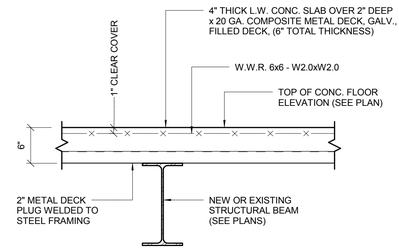
1. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY STEEL MOMENT FRAMES WITH BOLTED BEAM TO COLUMN CONNECTIONS FRAMED IN EACH ORTHOGONAL DIRECTION.
THE CONCRETE FLOOR SYSTEM SERVES AS A HORIZONTAL DIAPHRAGM THAT DISTRIBUTES THE LATERAL WIND AND SEISMIC FORCES HORIZONTALLY TO THE VERTICAL MOMENT FRAMES. THE VERTICAL MOMENT FRAMES CARRY THE APPLIED LATERAL LOADS TO THE BUILDING FOUNDATION.
2. INTENT OF THE DESCRIPTION ABOVE IS TO ALERT THE CONTRACTOR AND ERECTOR OF THE MEANS OF LATERAL LOAD RESISTANCE IN THE COMPLETED STRUCTURE, SO THAT APPROPRIATE PLANNING CAN OCCUR FOR THE CONSTRUCTION SEQUENCING OF THE BUILDING.
3. BASED ON INFORMATION PROVIDED ABOVE, THE ERECTOR SHALL DETERMINE, FURNISH AND INSTALL ALL TEMPORARY SUPPORTS REQUIRED FOR THE ERECTION OPERATION.



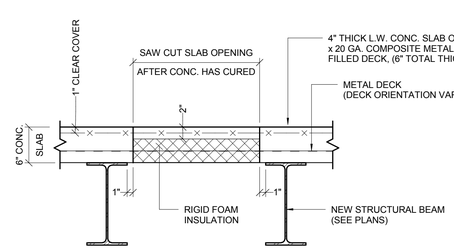
4 TYPICAL CONNECTION DETAIL BETWEEN EXISTING AND NEW BEAM AT SOLID SLAB TO REMAIN
NOT TO SCALE



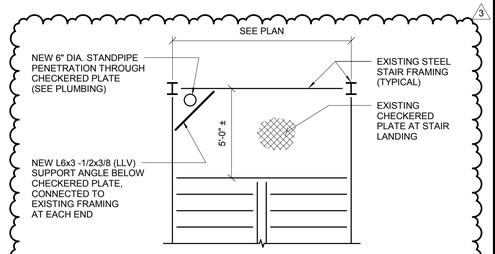
5 FLOOR STRENGTHENING SYSTEM FOR BASEMENT FLOOR
NOT TO SCALE



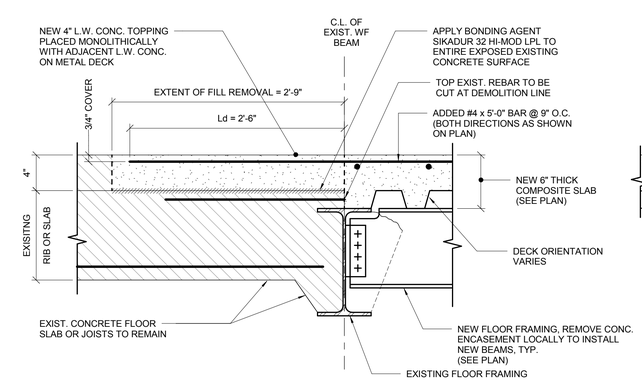
2 TYPICAL NEW COMPOSITE SLAB DETAIL
NOT TO SCALE



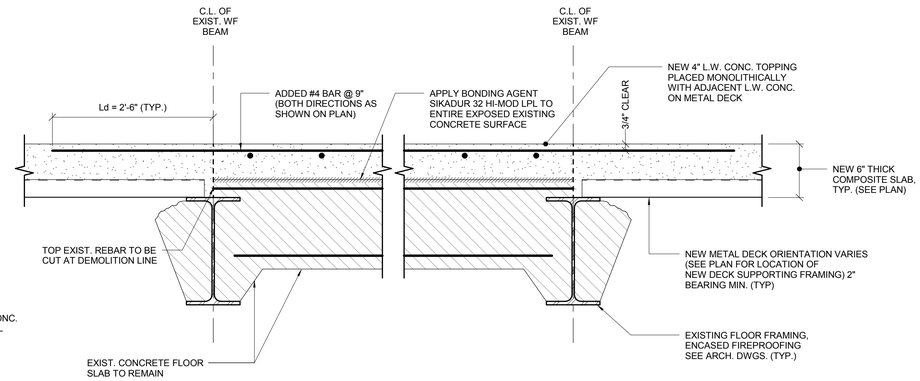
6 TYPICAL COMPOSITE SLAB OPENING DETAIL
NOT TO SCALE



8 TYPICAL DETAIL FOR STANDPIPE PENETRATION AT STAIR NO. 1 LANDING AT FLOOR LEVEL
NOT TO SCALE
NOTE: THIS WORK IS TYPICAL AT EACH FLOOR LEVEL.

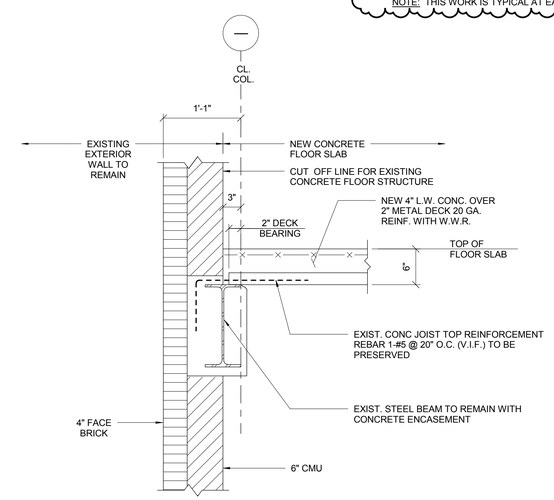


CONDITION #1



CONDITION #2

3 FLOOR STRENGHTENING AT TRANSITION BETWEEN EXISTING AND NEW FLOOR CONSTRUCTION
NOT TO SCALE



7 TYPICAL DETAIL FOR NEW FLOOR CONSTRUCTION AT SPANDREL BEAM AT EXTERIOR WALL
NOT TO SCALE

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CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

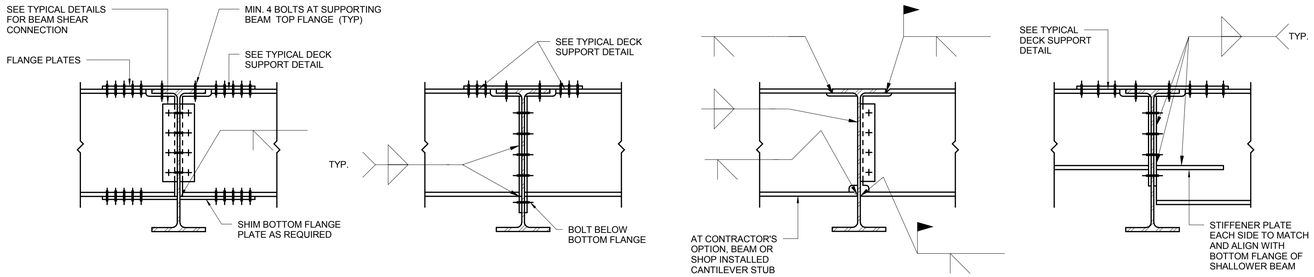
MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: TYPICAL FLOOR RECONSTRUCTION DETAILS I

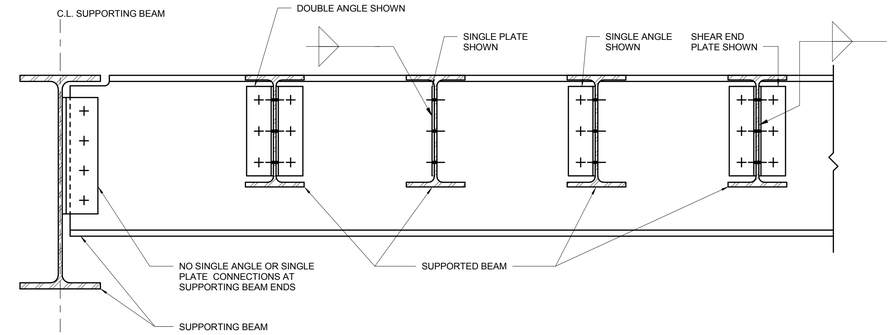
BUILDING NUMBER: 102
DRAWING NUMBER: S-301-2
SHEET

7/16/2014 6:11:55 PM



1 TYPICAL BEAM TO BEAM MOMENT CONNECTION

NOT TO SCALE

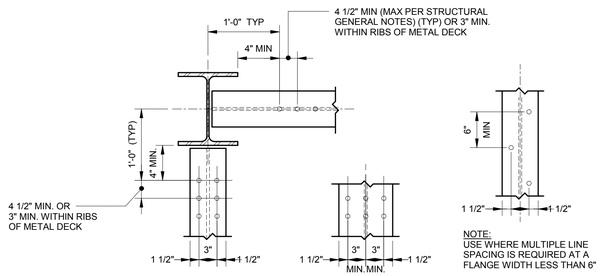


2 TYPICAL BEAM TO BEAM SHEAR CONNECTION

NOT TO SCALE

NOTES:

1. SUPPORTED BEAMS PRIMARILY SUPPORT DISTRUBUTED LOADS FROM SLABS OR DECKING.
2. SUPPORTING BEAMS SUPPORT SIGNIFICANT POINT LOADS FROM ONE OR MORE SUPPORTED BEAMS OR COLUMNS BEING TRANSFERRED. SUPPORTING BEAMS MAY BE SUPPORTED BY COLUMNS OR BY OTHER SUPPORTING BEAMS.
3. FOR AISC SIMPLE SHEAR CONNECTIONS AT SUPPORTED BEAM ENDS, DOUBLE ANGLE, SINGLE PLATE, SINGLE ANGLE, OR SHEAR END PLATE MAY BE USED U.O.N.
4. WELDED/BOLTED OR BOLTED/BOLTED CONNECTIONS PER AISC ARE PERMITTED.

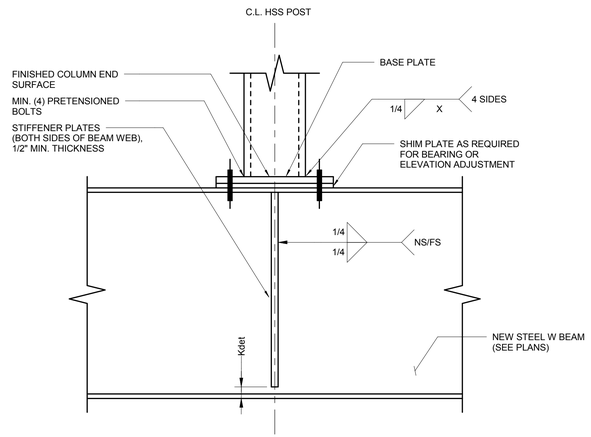


3 TYPICAL SHEAR STUD SPACING DETAIL

NOT TO SCALE

NOTES:

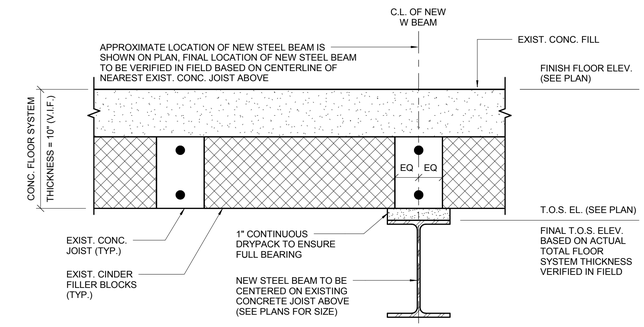
1. ALL STUD DIAMETER PER NOTES AND SCHEDULE NUMBER OF STUDS IS INDICATED ON FRAMING PLANS.
2. SHEAR CONNECTORS IN ONE ROW SHALL BE PLACED DIRECTLY OVER THE BEAM WEB.
3. PLACE STUDS IN A SINGLE ROW WHERE SPACING REQUIREMENTS PERMIT. STUDS SHALL BE PLACED IN TWO ROWS OR THREE ROWS ONLY WHERE REQUIRED IN ORDER TO PLACE THE TOTAL NUMBERS OF STUDS.
4. PROVIDE MINIMUM 1 1/2" SPACING FROM EDGE OF FLANGE TO CENTERLINE OF STUD.
5. NUMBER OF STUDS PERMITTED PER INDIVIDUAL METAL DECK RIB IS 3 MAX.
6. STUD PLACEMENT PROCEDURE FOR DECK PERPENDICULAR TO SUPPORTS: PLACE A STUD IN ALTERNATING FLUTES FOR ENTIRE LENGTH OF BEAM. PLACE REMAINING STUDS IN FLUTES NOT ALREADY HAVING A STUD, STARTING NEAR END OF BEAM AND CONTINUING TO BEAM CENTER, EQUALLY DISTRUBUTED FROM EACH END. IF STUDS REMAIN, PLACE A SECOND STUD IN EACH FLUTE, EQUALLY PLACE FROM EACH END TOWARD CENTER OF BEAM. IF STUDS REMAIN, PLACE A THIRD STUD IN EACH FLUTE,EQUALLY SPACED FROM EACH END TOWARD CENTER BEAM.
7. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR ENGINEER'S APPROVAL. SHOP DRAWINGS SHALL INDICATE STUD SPACING IN INCHES, NUMBER OF ROWS REQUIRED AND PLACEMENT PROCEDURE.



4 TYPICAL HSS POST BEARING ON NEW W BEAM

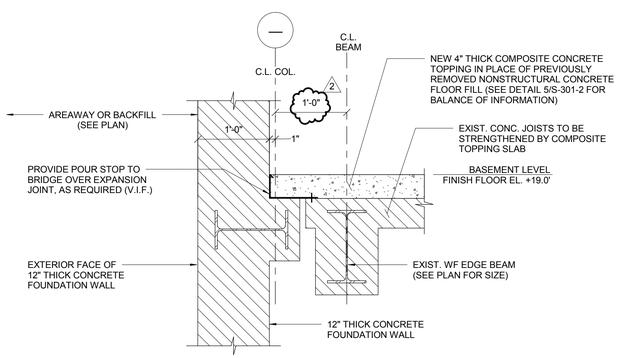
NOT TO SCALE

NOTE: 'X' DENOTES WELD LENGTH BASED ON HSS WORKABLE FLAT DIMENSION.



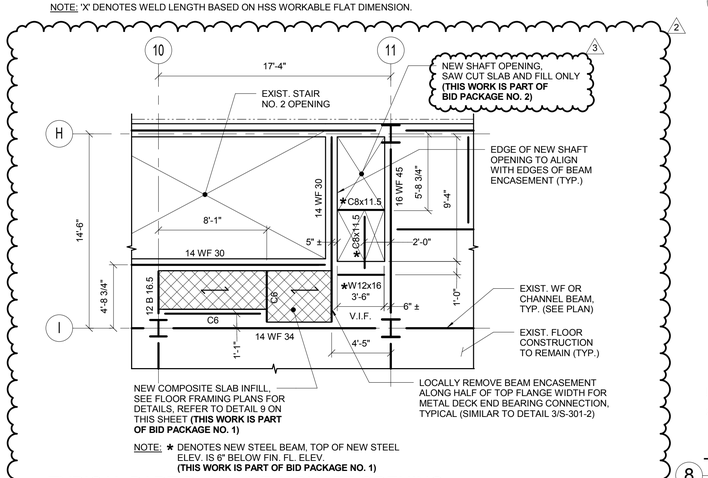
5 TYPICAL DETAIL FOR NEW STEEL BEAM BELOW EXISTING CONCRETE JOIST

NOT TO SCALE



6 TYPICAL DETAIL FOR NEW COMPOSITE TOPPING AT BASEMENT LEVEL (FOR EXTERIOR WALL CONDITION)

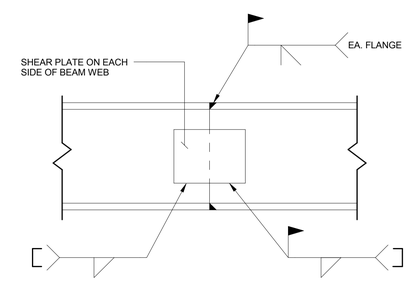
NOT TO SCALE



NOTE: ★ DENOTES NEW STEEL BEAM, TOP OF NEW STEEL ELEV. IS 6" BELOW FIN. FL. ELEV. (THIS WORK IS PART OF BID PACKAGE NO. 1)

7 TYPICAL PART PLAN - NEW SHAFT OPENING

3/16" = 1'-0"

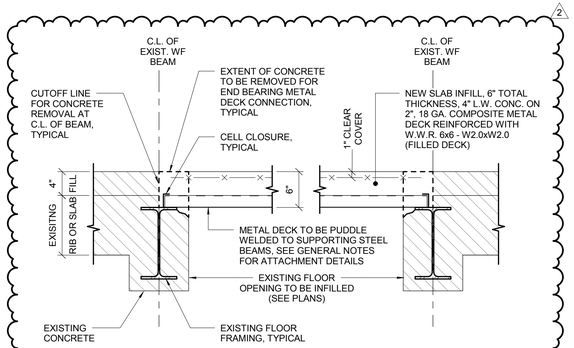


NOTES:

1. SPLICE LOCATIONS SHALL BE DETERMINED BY CONTRACTOR.
2. STEEL DETAILER SHALL DESIGN THE WEB SHEAR PLATE CONNECTION TO DEVELOP THE ALLOWABLE SHEAR STRENGTH OF THE SECTION IN ACCORDANCE WITH AISC SPECIFICATION CHAPTER G.

8 TYPICAL WIDE FLANGE BEAM SPLICE DETAIL

NOT TO SCALE



NOTE: FOR THE METAL DECK SIDELAP CONDITION, THE NEW CONCRETE SHALL BE CAST AGAINST THE EXISTING ADJACENT CONCRETE WITH A BONDING AGENT APPLIED TO EXISTING CONCRETE SURFACE.

9 TYPICAL EXISTING FLOOR OPENING INFILL DETAIL

NOT TO SCALE

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CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

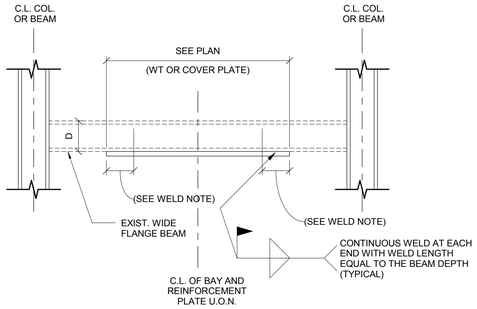
PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: TYPICAL FLOOR RECONSTRUCTION DETAILS II

BUILDING NUMBER: 102

DRAWING NUMBER: S-302-2

SHEET



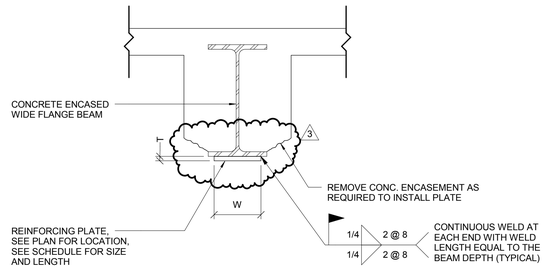
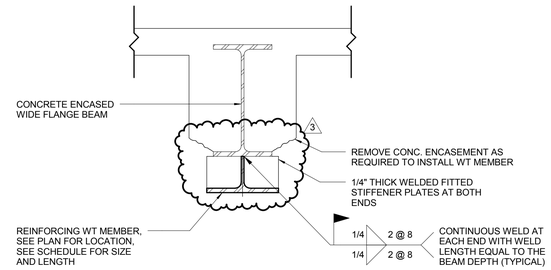


PLATE REINFORCING DETAIL

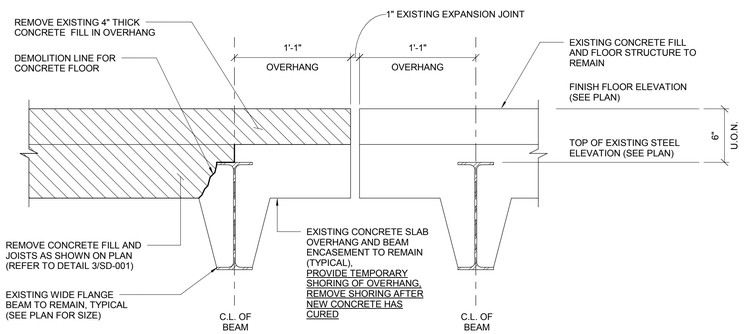


WT REINFORCING DETAIL

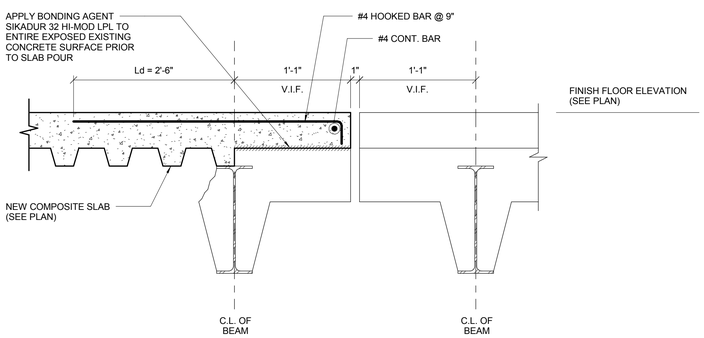
WT REINFORCING SCHEDULE		
MARK	SECTION	LENGTH
WT-1	WT4x17.5	14'-0"
WT-2	WT4x14	11'-0"
WT-3	WT4x20	11'-0"

COVER PLATE REINFORCING SCHEDULE		
MARK	T x W	LENGTH
CP-1	1" x 3"	11'-0"

1 TYPICAL REINFORCEMENT DETAIL FOR EXISTING STEEL BEAMS
NOT TO SCALE

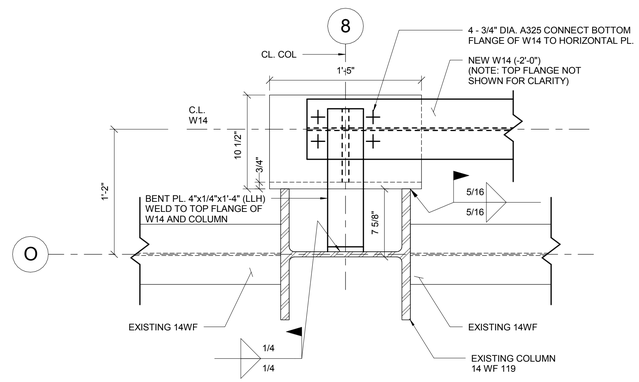


DEMOLITION WORK

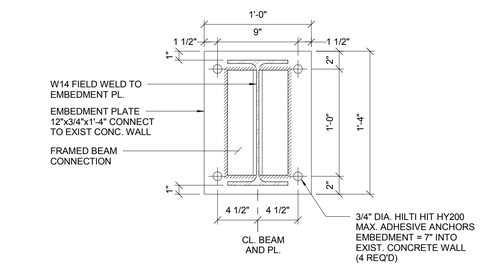


NEW CONSTRUCTION

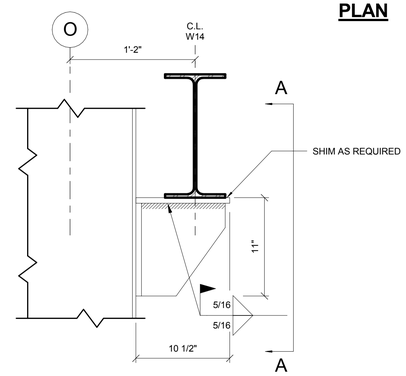
3 TYPICAL SECTION OF FLOOR STRENGHTENING AT EXPANSION JOINT
NOT TO SCALE



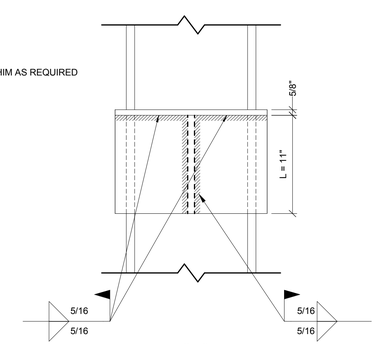
PLAN



2 EMBEDMENT PLATE DETAIL
NOT TO SCALE



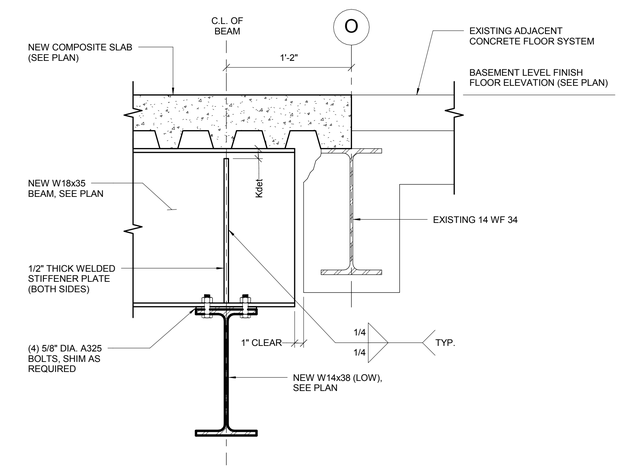
ELEVATION



A-A

NOTE: BEAM NOT SHOWN FOR CLARITY.

4 SEATED CONNECTION DETAIL
NOT TO SCALE



5 BEAM BEARING CONNECTION DETAIL
1 1/2" = 1'-0"

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STATE OF NEW YORK · ROBERT A. DUMAS · LICENSED PROFESSIONAL ENGINEER

CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

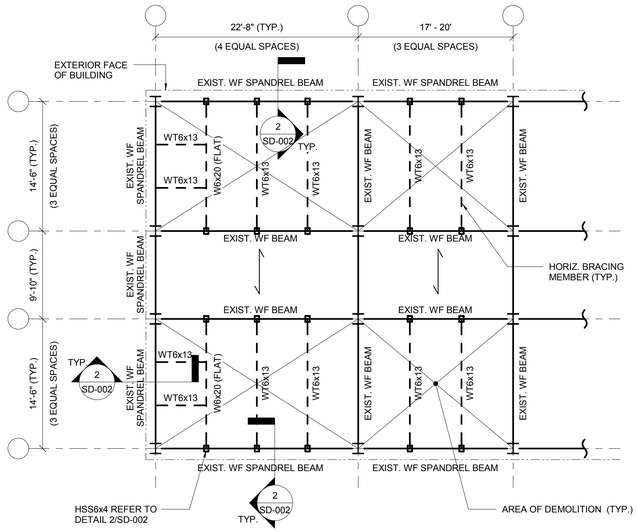
MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: TYPICAL FLOOR RECONSTRUCTION DETAILS III

BUILDING NUMBER: 102
DRAWING NUMBER: S-303-2
SHEET

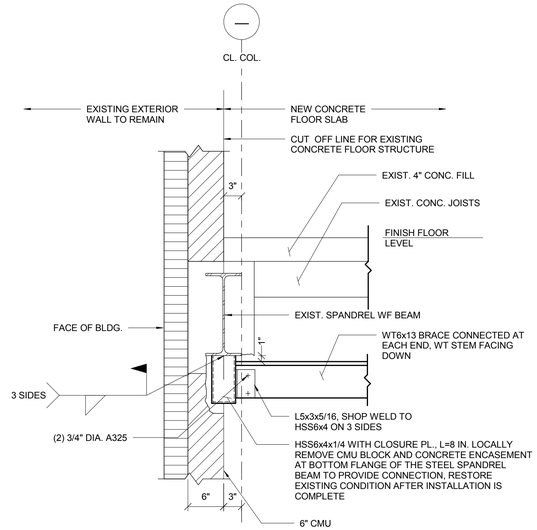
7/16/2014 6:11:56 PM



1 SUGGESTED TYPICAL TEMPORARY BRACING OF SPANDREL BEAMS DURING CONSTRUCTION AT DEMOLITION AREAS

NOT TO SCALE

NOTES:
1. SYMBOL ⟷ INDICATES ON A PLAN SOLID CONCRETE SLAB CONSTRUCTION TO REMAIN.
2. SEE STRUCTURAL FLOOR PLANS FOR ACTUAL AREAS OF DEMOLITION.

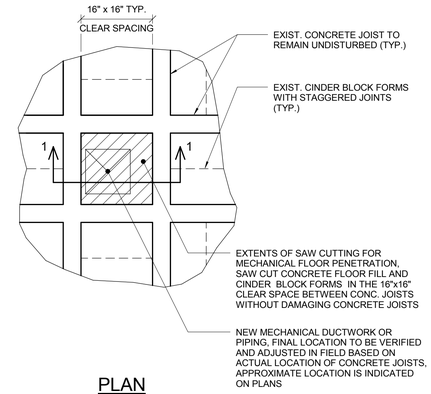


2 SUGGESTED TYPICAL EXISTING SPANDREL BRACING DETAIL

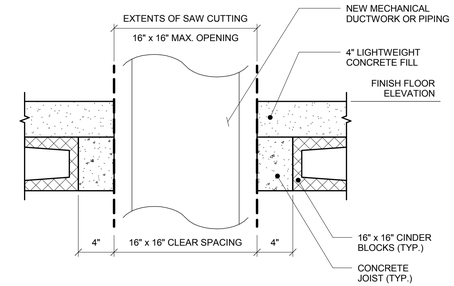
NOT TO SCALE

NOTE:

1. IF THE SUGGESTED SPANDREL BRACING METHOD IS IMPLEMENTED AS SHOWN ON THIS DETAIL, THE BRACING MEMBERS MUST BE INSTALLED PRIOR TO SLAB DEMOLITION IN THE AREA OF WORK. IF AN ALTERNATE METHOD OF SPANDREL BRACING IS DESIRED BY GC, THE ERECTOR SHALL DETERMINE, FURNISH AND INSTALL ALL TEMPORARY SUPPORTS REQUIRED FOR THE ERECTION OPERATION, AND SUBMIT THEIR DESIGN TO THE EOR FOR REVIEW.



PLAN



SECTION 1-1

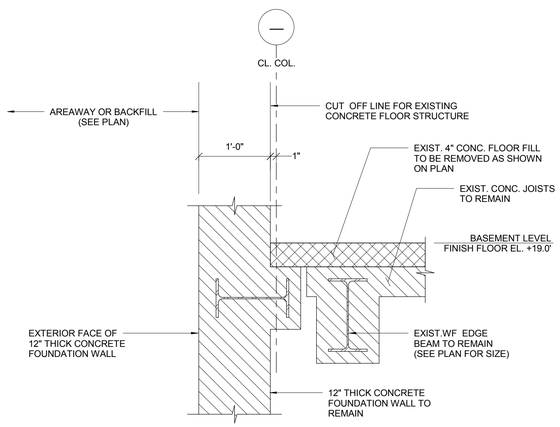
NOTE: CONCRETE FLOOR FILL ABOVE CONCRETE JOISTS AND CINDER BLOCKS IS NOT SHOWN FOR CLARITY.

NOTE: COORDINATE FIRESEAL DETAIL WITH ARCHITECTURAL DRAWINGS.

3 TYPICAL DETAIL FOR NEW FLOOR OPENING THRU EXISTING TWO-WAY CONCRETE JOIST FLOOR

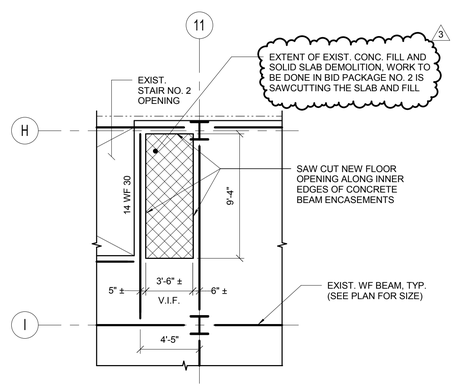
NOT TO SCALE

NOTE: THIS WORK IS PART OF BID PACKAGE NO. 2. 2



4 TYPICAL DETAIL FOR REMOVAL OF CONCRETE FLOOR FILL AT BASEMENT LEVEL (FOR EXTERIOR WALL CONDITION)

NOT TO SCALE



5 TYPICAL DEMOLITION PART PLAN - NEW SHAFT OPENING

3/16" = 1'-0"

NOTE: THIS WORK IS PART OF BID PACKAGE NO. 2. 2

7/16/2014 6:35:25 PM

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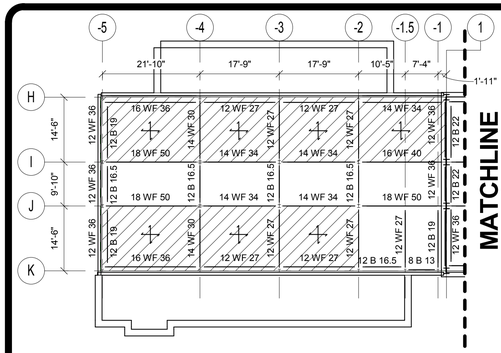
CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	MR
APPROVED:	ACC

SHEET TITLE: DEMOLITION NOTES AND DETAILS II

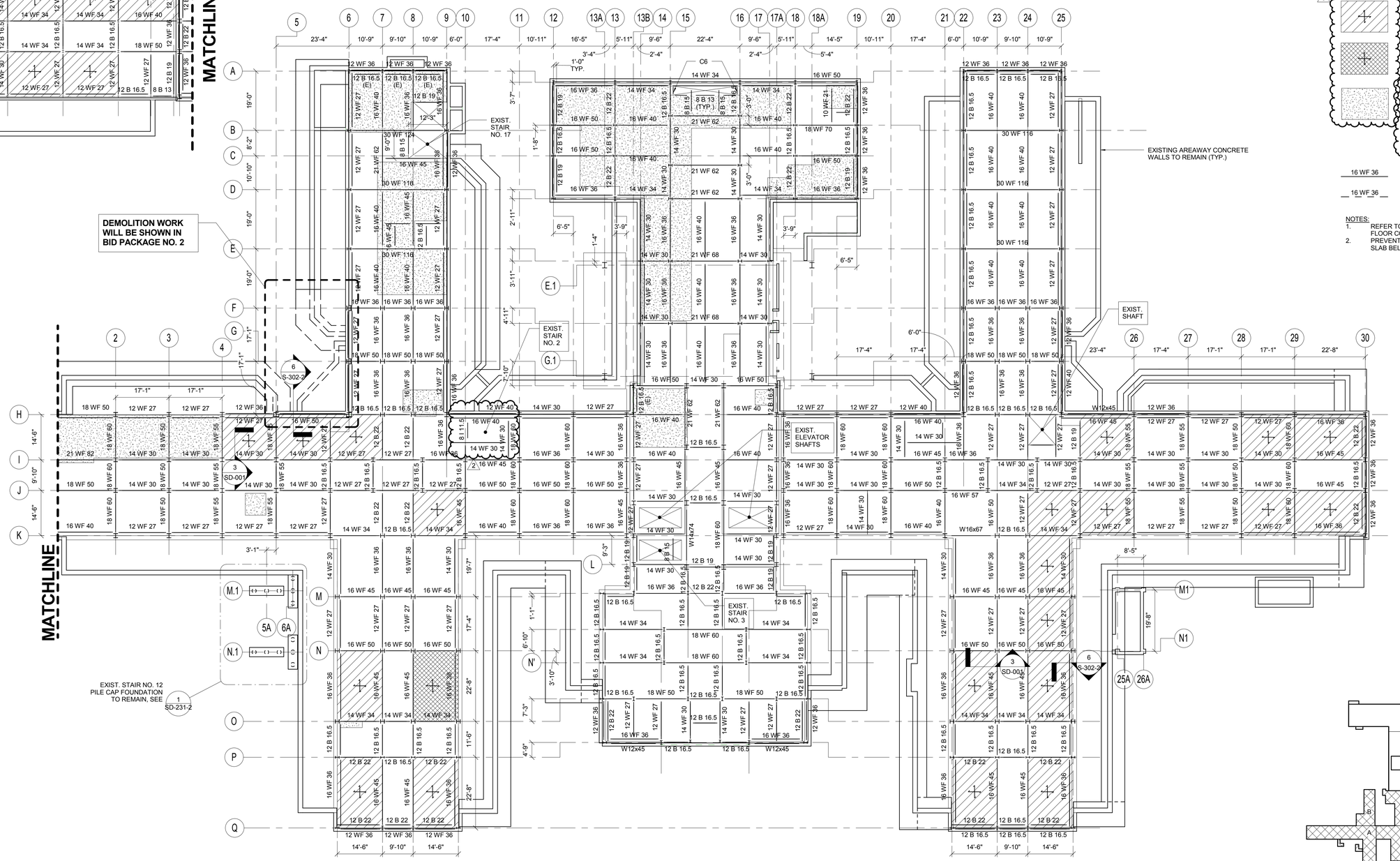
BUILDING NUMBER: 102
DRAWING NUMBER: SD-002
SHEET



BASEMENT FLOOR LEGEND

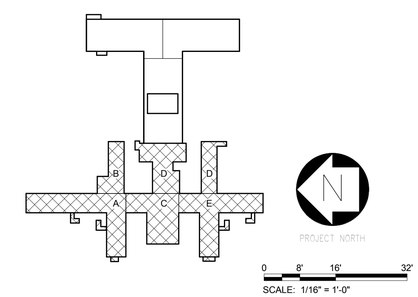
- EXISTING FLOOR CONSTRUCTION TO REMAIN
- EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM TO REMAIN. 4" CONCRETE FILL ABOVE CONCRETE JOISTS OR SLAB TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED, REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 WWR AT 1" BELOW TOP OF CONCRETE **(AREA OF WORK IS SHOWN FOR REFERNCE ONLY, SEE ARCHITECTURAL DRAWINGS FOR FINALIZED AREA OF WORK, TYPICAL FOR ALL FLOORS)**
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
1. REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.
2. PREVENT DAMAGE TO REMAINING CONCRETE JOISTS OR SLAB BELOW DURING CONCRETE FLOOR FILL REMOVAL.



STRUCTURAL BASEMENT FLOOR DEMOLITION PLAN

TOP OF CONCRETE FINISH FLOOR EL. +19.0' (U.O.N.)



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CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

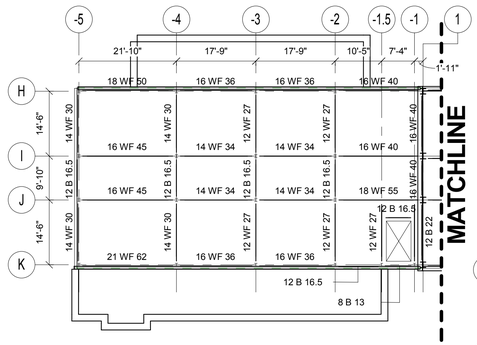
MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
2	6-30-2014	ADDENDUM NO. 2
	5-28-2014	BID DOCUMENT

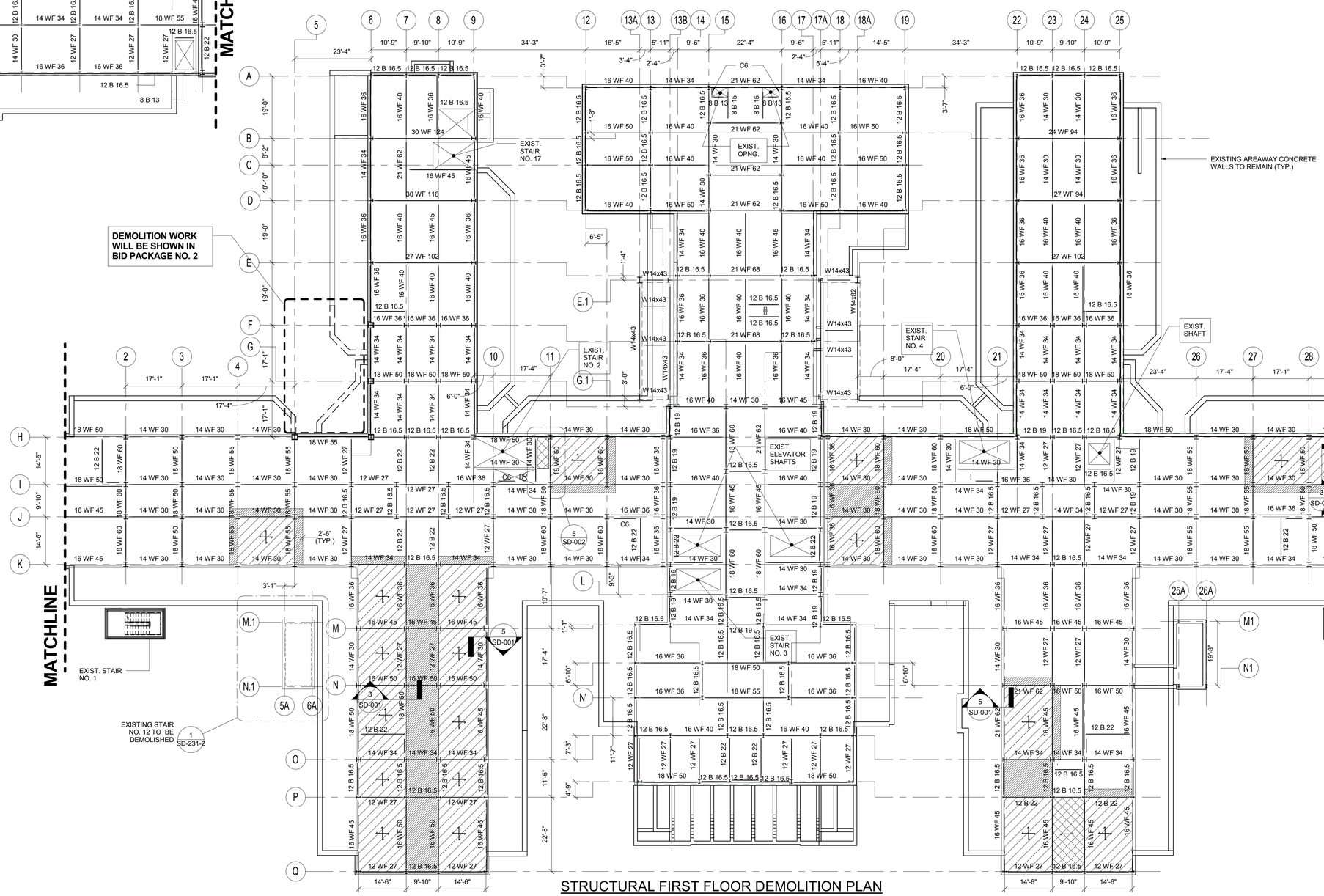
PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL BASEMENT FLOOR DEMOLITION PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: SD-100-2
SHEET

7/16/2014 6:12:00 PM

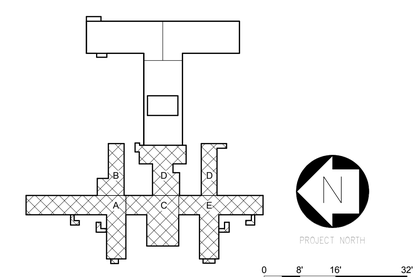




TYPICAL FLOOR LEGEND

- EXISTING FLOOR CONSTRUCTION TO REMAIN
- EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED, CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED (REFER TO ARCHITECTURAL PLANS FOR DETAILS). REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 W.W.R. AT 1" BELOW TOP OF CONCRETE
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
1. REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.
2. SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



SCALE: 1/16" = 1'-0"

STRUCTURAL FIRST FLOOR DEMOLITION PLAN

TOP OF CONCRETE FINISH FLOOR EL. +31.25' (U.O.N.)

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CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

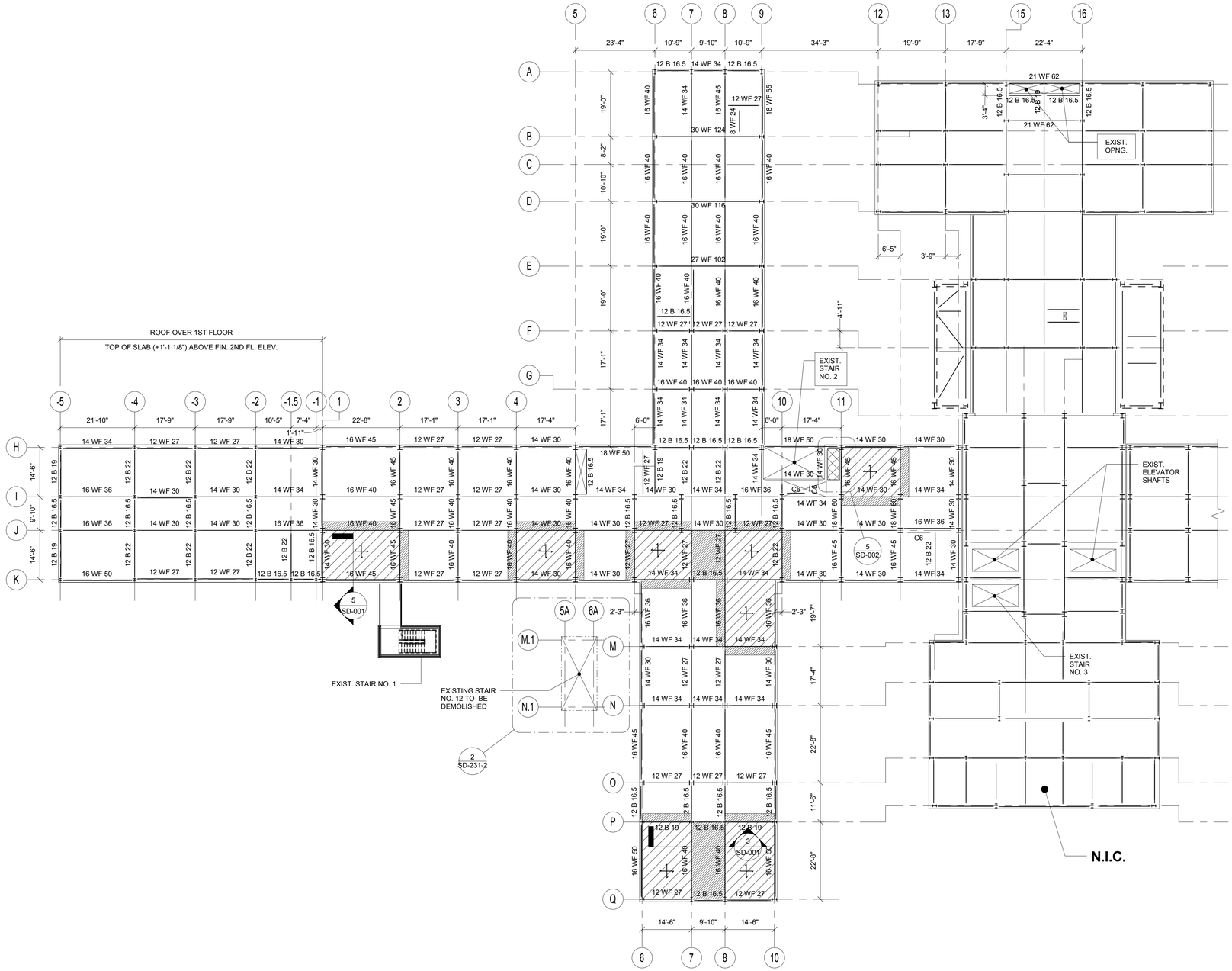
MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL FIRST FLOOR DEMOLITION PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: SD-101-2
SHEET

7/16/2014 6:12:03 PM



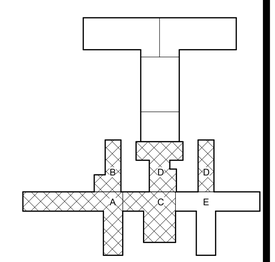
STRUCTURAL SECOND FLOOR DEMOLITION PLAN

TOP OF CONCRETE FINISH FLOOR EL. +43.50' (U.O.N.)

TYPICAL FLOOR LEGEND

- EXISTING FLOOR CONSTRUCTION TO REMAIN
- EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED. CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED (REFER TO ARCHITECTURAL PLANS FOR DETAILS), REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 W.W.R. AT 1" BELOW TOP OF CONCRETE
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
1. REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.
2. SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



PROJECT NORTH

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

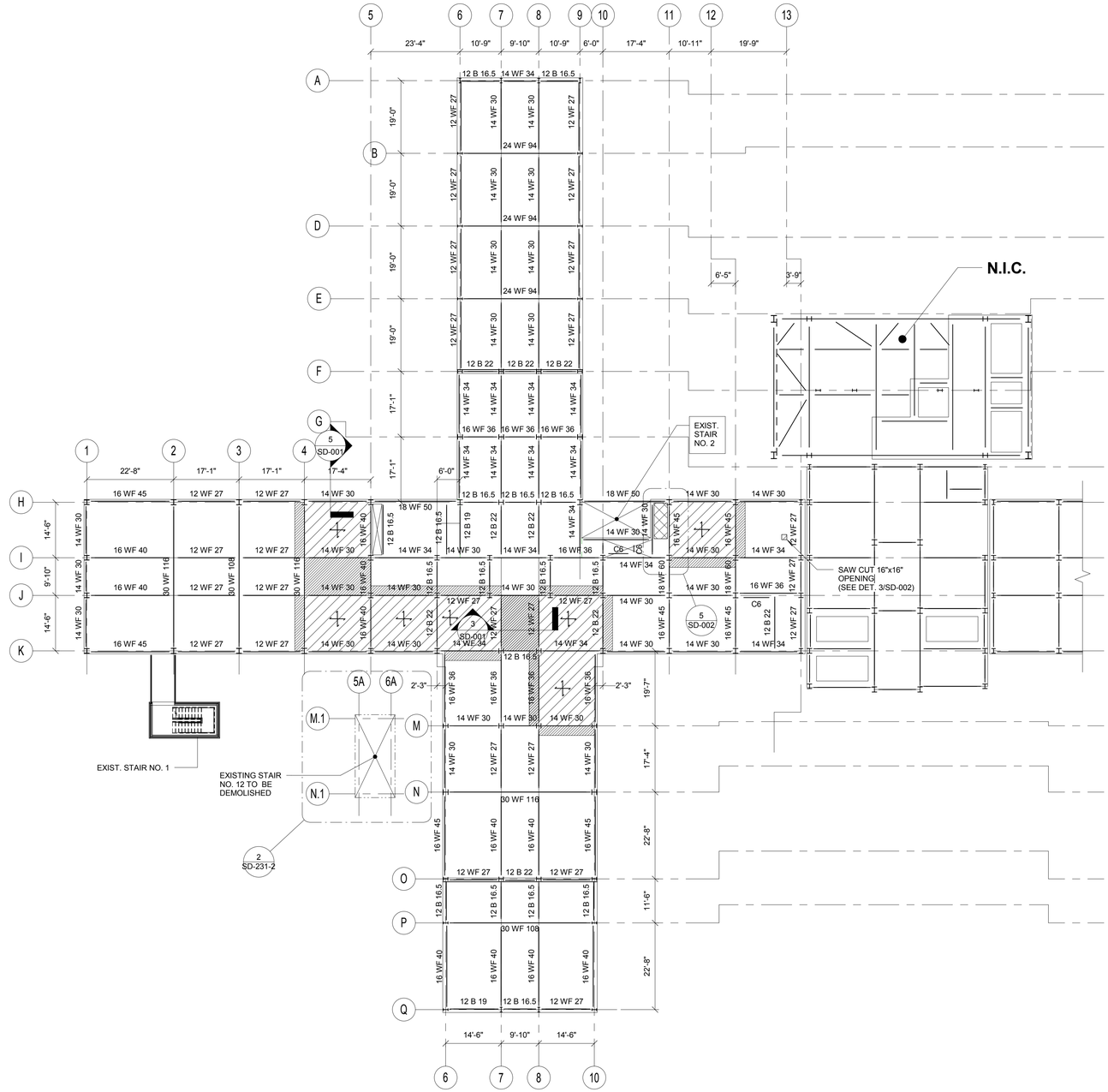
MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL SECOND FLOOR DEMOLITION PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: SD-102-2
SHEET

7/16/2014 6:12:05 PM



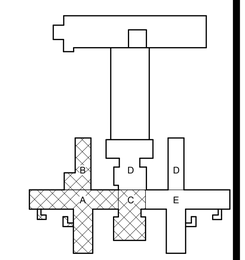
STRUCTURAL THIRD FLOOR DEMOLITION PLAN

TOP OF CONCRETE FINISH FLOOR EL. +55.75' (U.O.N.)

TYPICAL FLOOR LEGEND

- EXISTING FLOOR CONSTRUCTION TO REMAIN
- EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED, CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED (REFER TO ARCHITECTURAL PLANS FOR DETAILS), REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 W.W.R. AT 1" BELOW TOP OF CONCRETE
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
1. REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.
2. SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



PROJECT NORTH

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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STATE OF NEW YORK
ANDREW M. CUOMO
LICENSED PROFESSIONAL ENGINEER

CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL THIRD FLOOR DEMOLITION PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: SD-103-2
SHEET

7/16/2014 6:12:07 PM

TYPICAL FLOOR LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN

EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

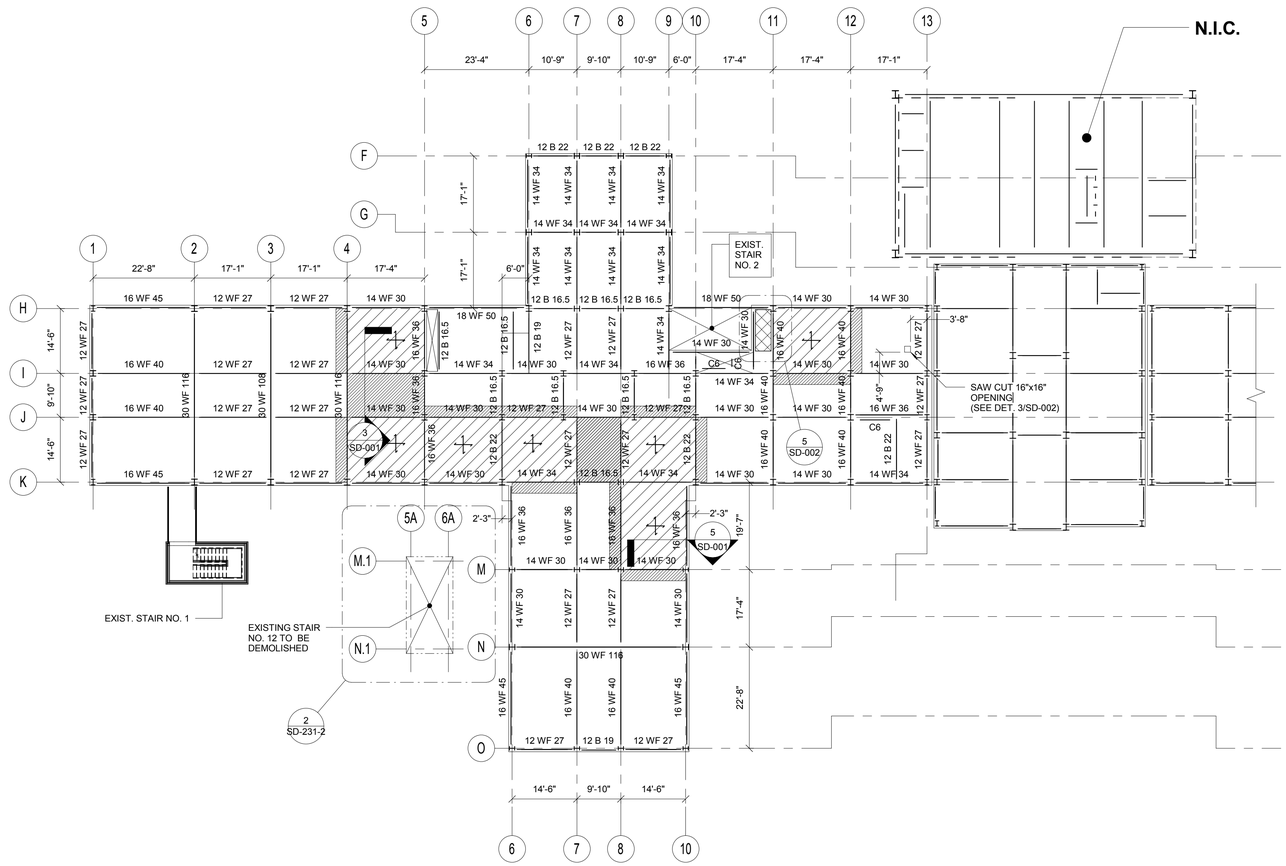
EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED, CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN (REFER TO 1/SD-001 FOR DETAILS)

EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED (REFER TO ARCHITECTURAL PLANS FOR DETAILS). REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 W.W.R. AT 1" BELOW TOP OF CONCRETE

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN

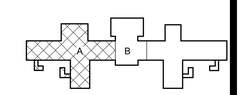
16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
1. REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.
2. SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



STRUCTURAL FOURTH AND FIFTH FLOOR DEMOLITION PLAN

4TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +68.00' (U.O.N.)
5TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +80.25' (U.O.N.)



PROJECT NORTH

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL FOURTH AND FIFTH FLOOR DEMOLITION PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: SD-104-2
SHEET

7/16/2014 6:12:08 PM

TYPICAL FLOOR LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN

EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED, CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN (REFER TO 1/SD-001 FOR DETAILS)

EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED (REFER TO ARCHITECTURAL PLANS FOR DETAILS), REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 W.W.R. AT 1" BELOW TOP OF CONCRETE

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
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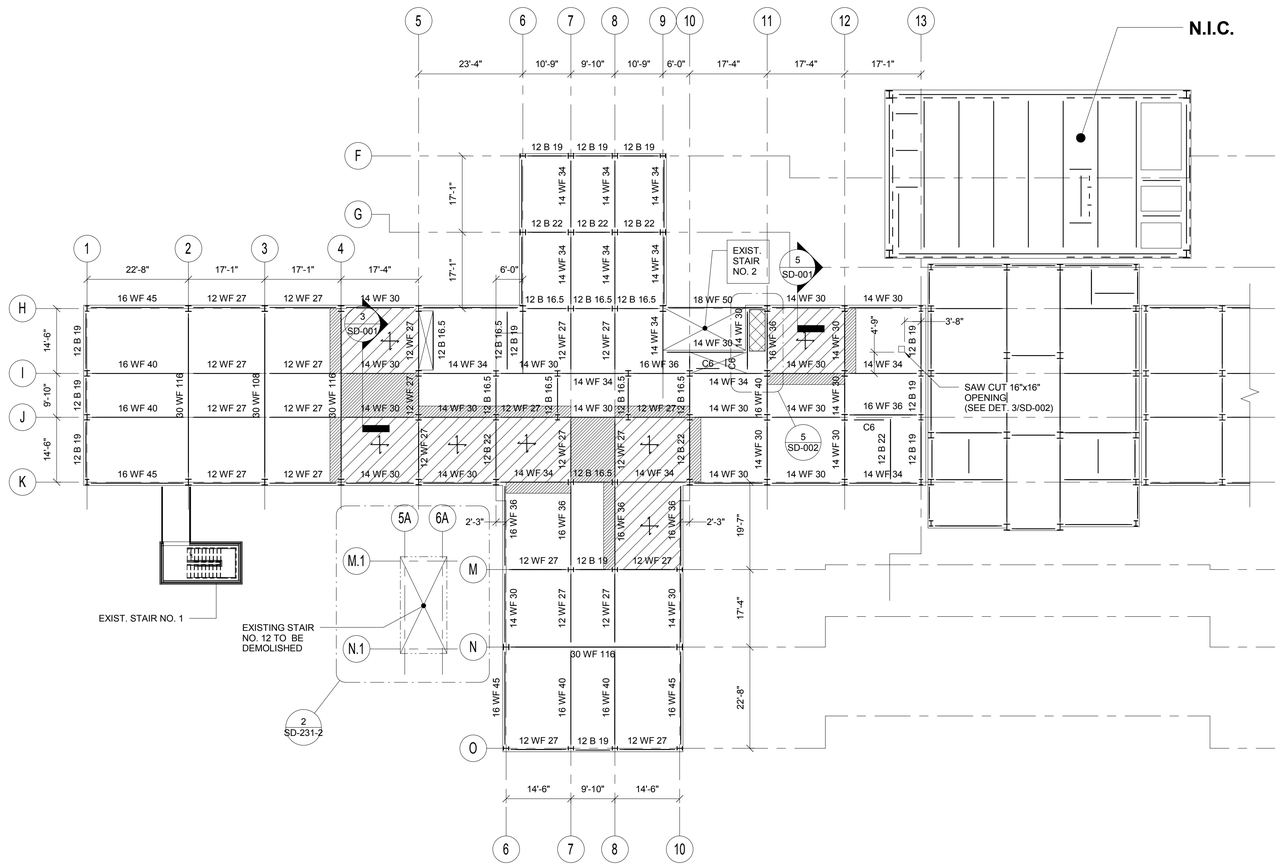
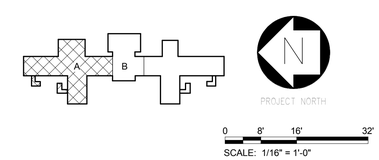
2. SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



STRUCTURAL SIXTH, SEVENTH AND EIGHTH FLOOR DEMOLITION PLAN

6TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +92.50' (U.O.N.)
7TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +104.75' (U.O.N.)
8TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +117.00' (U.O.N.)



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CONTRACT: CONSTRUCTION
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	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL SIXTH, SEVENTH AND EIGHTH FLOOR DEMOLITION PLAN

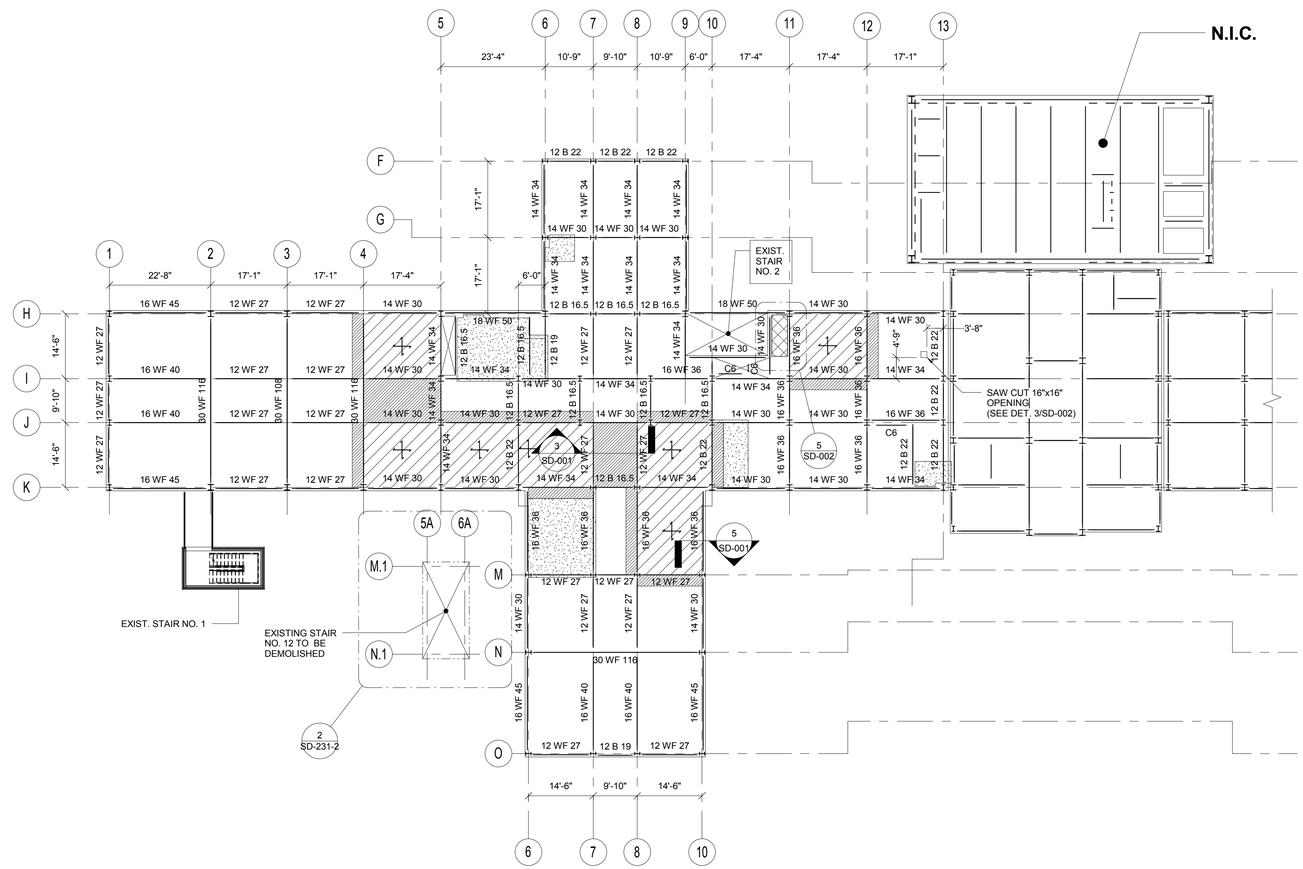
BUILDING NUMBER: 102
DRAWING NUMBER: SD-105-2
SHEET

7/16/2014 6:12:10 PM

TYPICAL FLOOR LEGEND

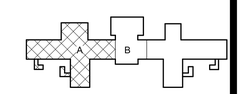
- EXISTING FLOOR CONSTRUCTION TO REMAIN
- 3 — EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED, CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED (REFER TO ARCHITECTURAL PLANS FOR DETAILS). REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 W.W.R. AT 1" BELOW TOP OF CONCRETE **(11TH FLOOR ONLY)**
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
1. REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.
2. SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



STRUCTURAL NINTH, TENTH, AND ELEVENTH FLOOR DEMOLITION PLAN

9TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +129.25' (U.O.N.)
10TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +141.50' (U.O.N.)
11TH FLOOR TOP OF CONCRETE FINISH FLOOR EL. +153.75' (U.O.N.)



PROJECT NORTH

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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CONSULTANTS:
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CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL NINTH, TENTH, AND ELEVENTH FLOOR DEMOLITION PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: SD-106-2
SHEET

7/16/2014 6:12:10 PM

TYPICAL FLOOR LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN

EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

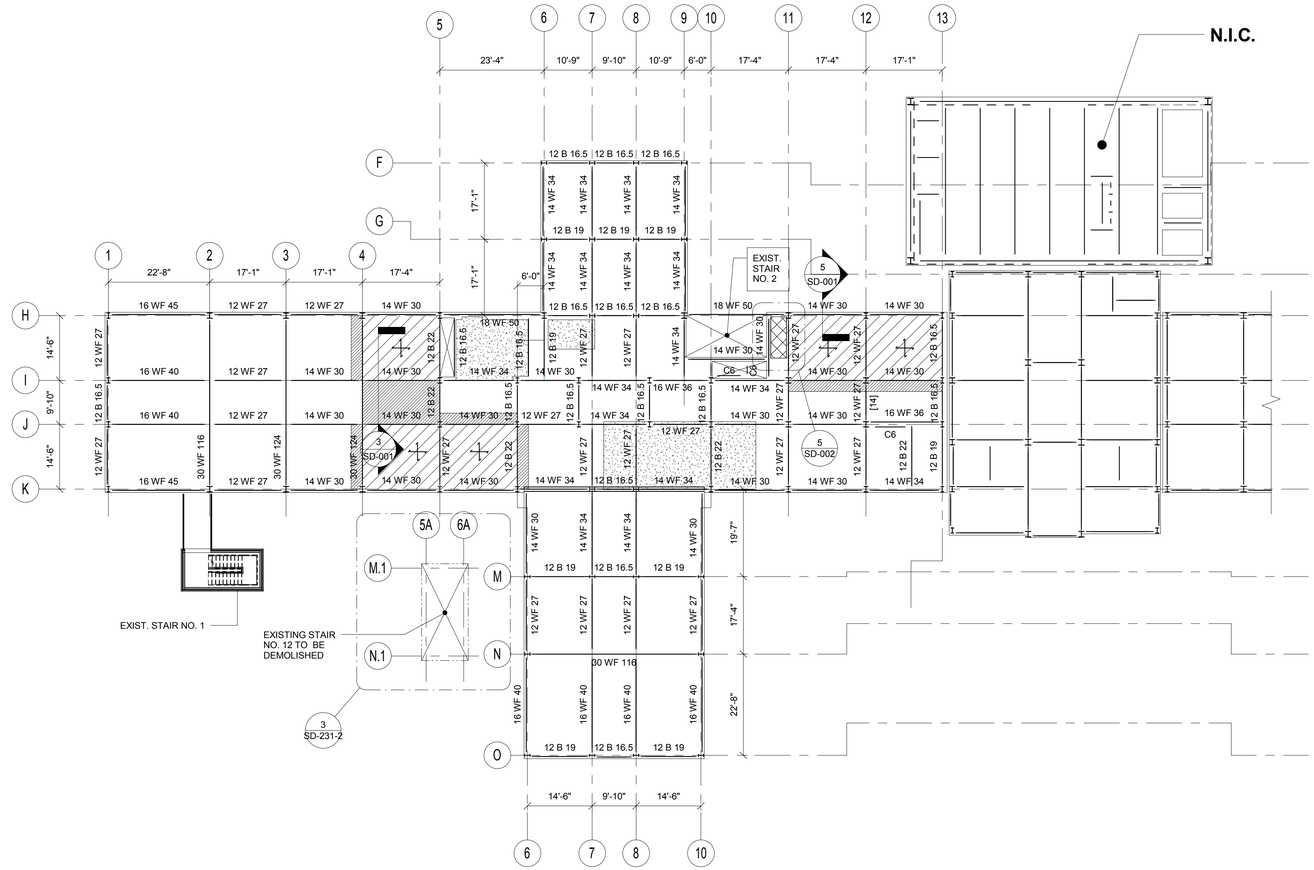
EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED, CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN (REFER TO 1/SD-001 FOR DETAILS)

EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED (REFER TO ARCHITECTURAL PLANS FOR DETAILS), REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 W.W.R. AT 1" BELOW TOP OF CONCRETE

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN

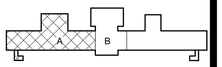
16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
1. REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.
2. SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



STRUCTURAL TWELFTH FLOOR DEMOLITION PLAN

TOP OF CONCRETE FINISH FLOOR EL. + 166.0' (U.O.N.)



0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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CONTRACT: CONSTRUCTION
TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS
LOCATION: BUILDING No. 102 MANHATTAN FORENSIC RELOCATION 600 EAST 125TH STREET WARDS ISLAND, NY 10035
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: STRUCTURAL TWELFTH FLOOR DEMOLITION PLAN

BUILDING NUMBER: 102
DRAWING NUMBER: SD-107-2
SHEET

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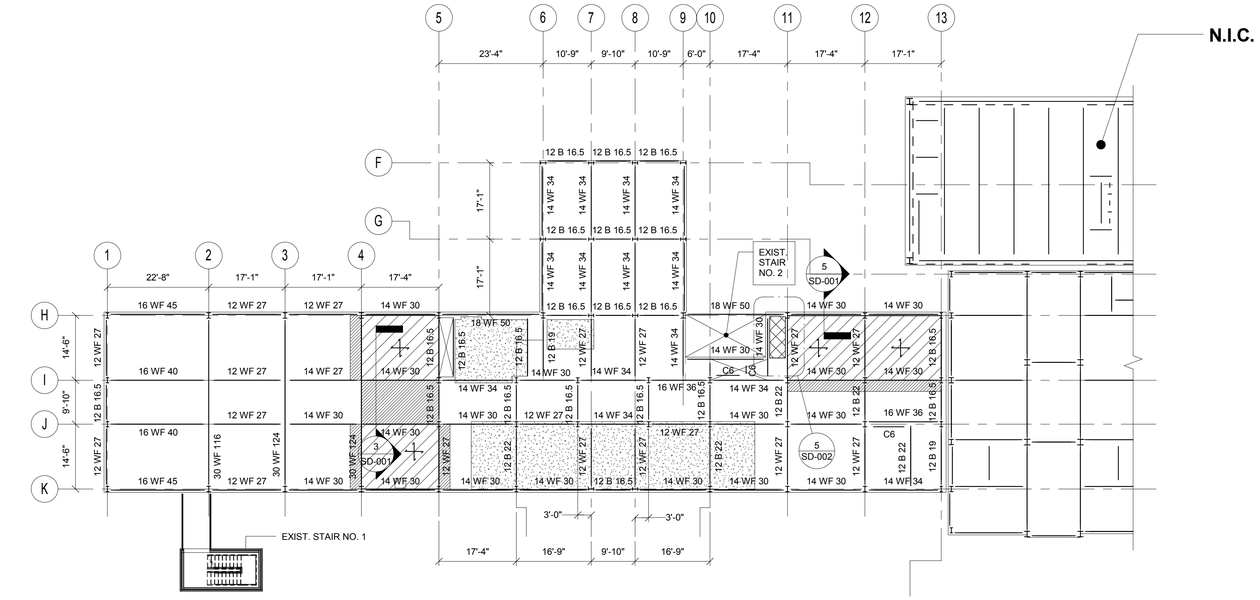
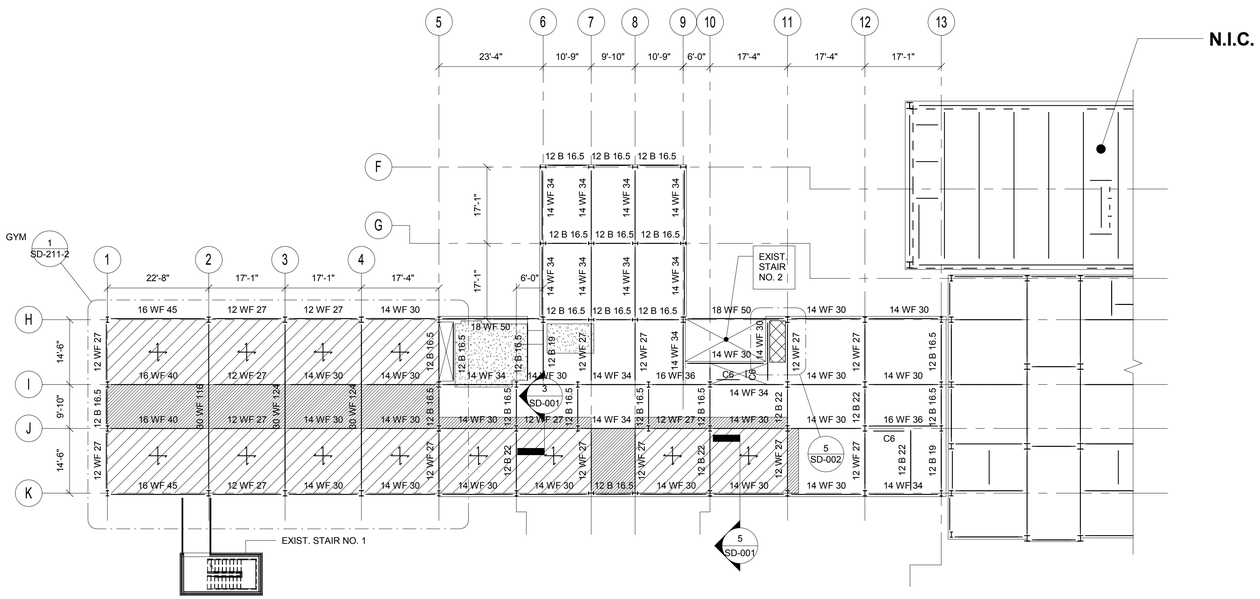


1 STRUCTURAL THIRTEENTH FLOOR DEMOLITION PLAN

1/16" = 1'-0"

TOP OF CONCRETE FINISH FLOOR EL. +178.25'



2 STRUCTURAL FOURTEENTH FLOOR DEMOLITION PLAN

1/16" = 1'-0"

TOP OF CONCRETE FINISH FLOOR EL. +190.50'

TYPICAL FLOOR LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN

EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

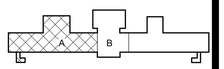
EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED, CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN (REFER TO 1/SD-001 FOR DETAILS)

EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED (REFER TO ARCHITECTURAL PLANS FOR DETAILS). REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 W.W.R. AT 1" BELOW TOP OF CONCRETE

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
1. REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.
2. SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



PROJECT NORTH

0 8' 16' 32'

SCALE: 1/16" = 1'-0"

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CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE:

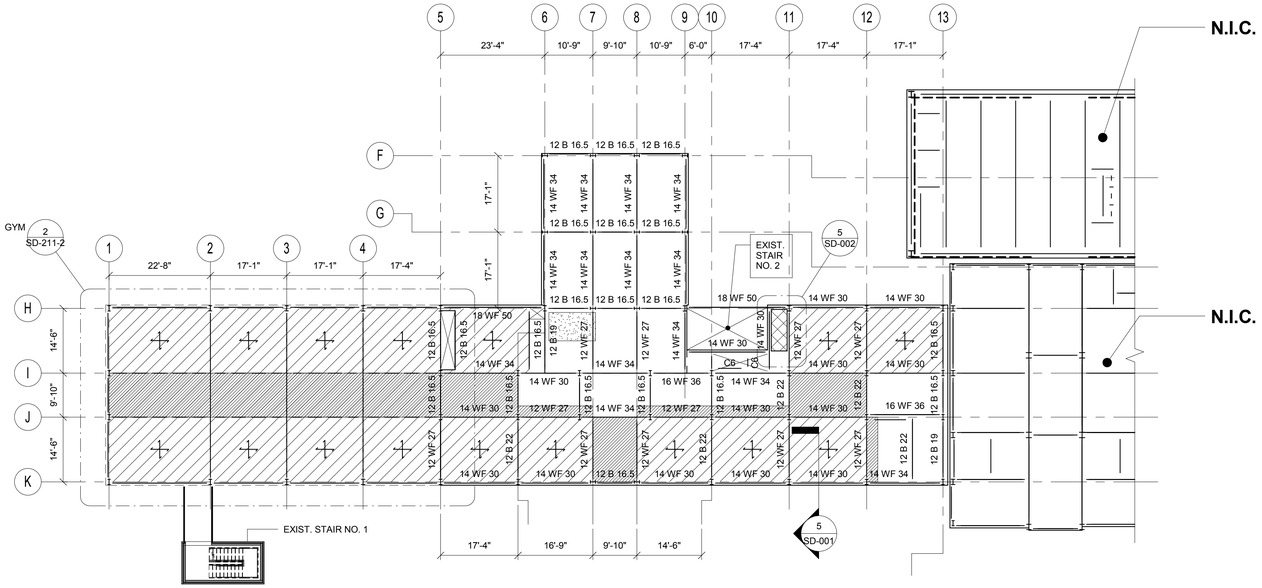
STRUCTURAL THIRTEENTH AND FOURTEENTH FLOOR DEMOLITION PLANS

BUILDING NUMBER: 102

DRAWING NUMBER: SD-108-2

SHEET

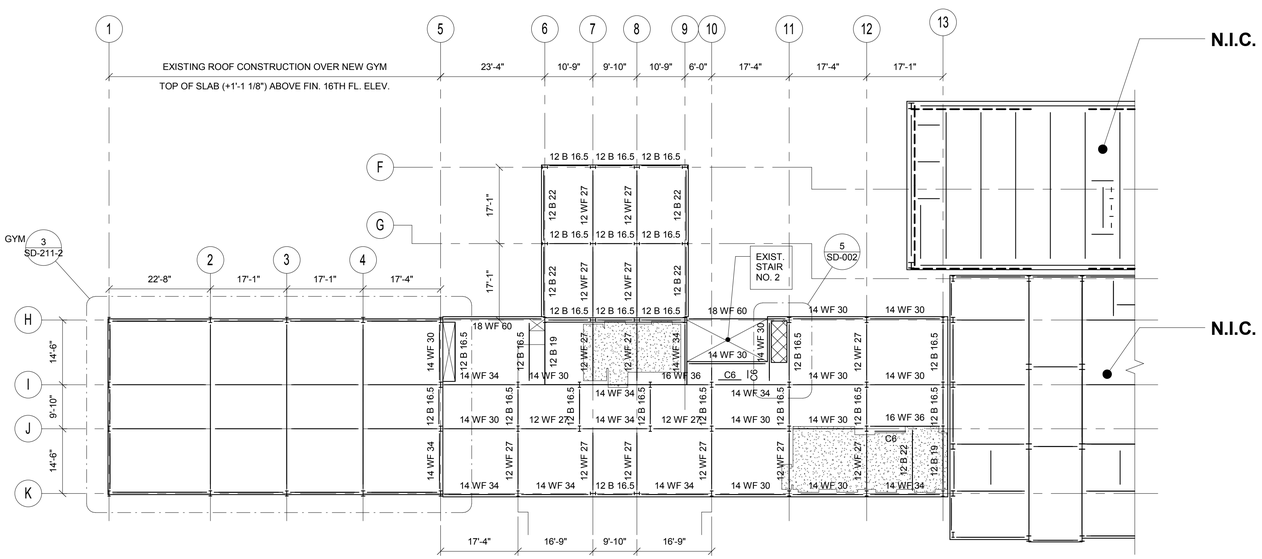
7/16/2014 6:12:14 PM



1 STRUCTURAL FIFTEENTH FLOOR FRAMING PLAN

1/16" = 1'-0"

NOTE: TOP OF CONCRETE FINISH FLOOR EL. +202.75



2 STRUCTURAL SIXTEENTH FLOOR DEMOLITION PLAN

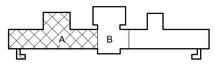
1/16" = 1'-0"

NOTE: TOP OF CONCRETE FINISH FLOOR EL. +215.00

TYPICAL FLOOR LEGEND

- EXISTING FLOOR CONSTRUCTION TO REMAIN
- 3 — EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED, CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN (REFER TO 1/SD-001 FOR DETAILS)
- EXISTING 4" CONCRETE FLOOR FILL TO BE REMOVED WHERE EXISTING CERAMIC AND QUARRY TILE IS REMOVED (REFER TO ARCHITECTURAL PLANS FOR DETAILS), REPLACE FILL WITH 4" THICK L.W. CONC. TOPPING REINFORCED WITH 6x6-W4.5xW4.5 W.W.R. AT 1" BELOW TOP OF CONCRETE
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN
- 16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTES:
1. REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.
2. SEE DETAIL 1/S-301-2 FOR SUGGESTED SEQUENCE FOR NEW FLOOR CONSTRUCTION.



PROJECT NORTH

0 8' 16' 32'

SCALE: 1/16" = 1'-0"

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CONTRACT:
CONSTRUCTION

TITLE:
PHASE 1 WORK:
DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT:
NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

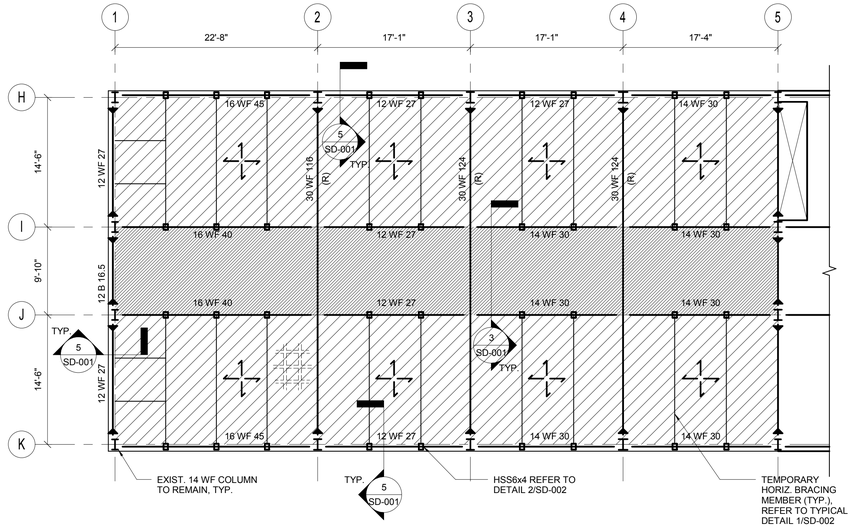
SHEET TITLE:
STRUCTURAL FIFTEENTH AND SIXTEENTH FLOOR DEMOLITION PLANS

BUILDING NUMBER: 102

DRAWING NUMBER: SD-109-2

SHEET

7/16/2014 6:38:04 PM

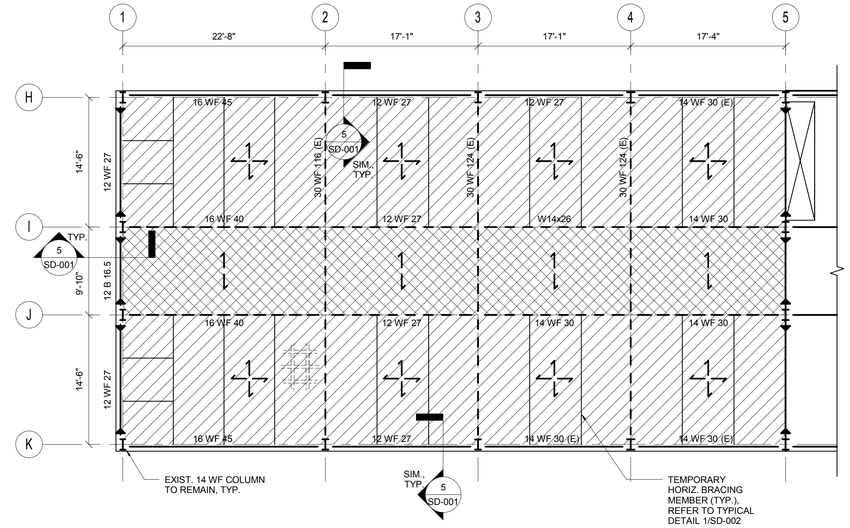


1 PART 14TH FLOOR FRAMING PLAN - GYM DEMOLITION

1/8" = 1'-0"

NOTES:

1. TOP OF EXISTING FINISH CONCRETE FLOOR ELEVATION +190.5'.
2. TOP OF EXISTING STEEL ELEVATION +190.0'.
3. REFER TO 2/SD-211-2 FOR GYM DEMOLITION WORK ON THE 15TH FLOOR.



2 PART 15TH FLOOR FRAMING PLAN - GYM DEMOLITION

1/8" = 1'-0"

NOTES:

1. TOP OF EXISTING FINISH CONCRETE FLOOR ELEVATION +202.75'.
2. TOP OF EXISTING STEEL ELEVATION +202.25'.
3. REFER TO 3/SD-211-2 FOR GYM DEMOLITION WORK ON THE 16TH FLOOR.

DRAWING LEGEND

EXISTING FLOOR CONSTRUCTION TO REMAIN

3

EXISTING TWO-WAY CONCRETE JOISTS (4" WIDE, 6" DEEP) SYSTEM WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

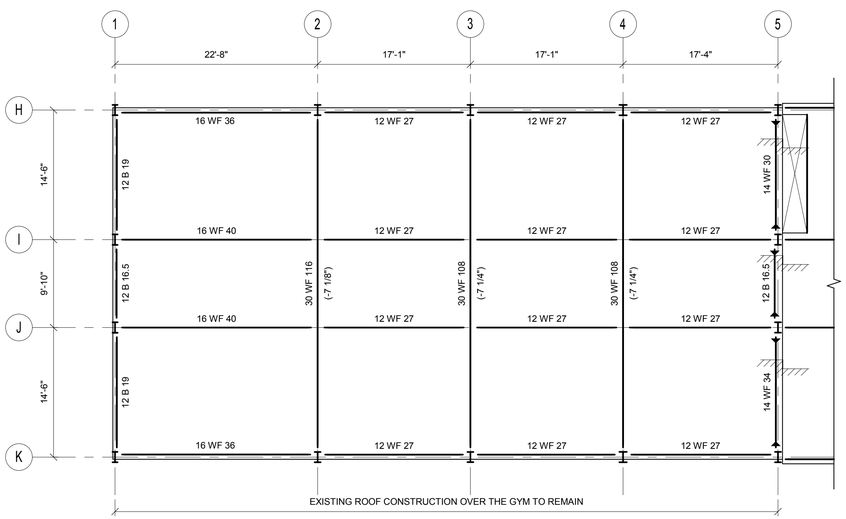
EXISTING ONE-WAY SOLID CONCRETE SLAB (4" - 5" THICK) WITH 4" CONCRETE FILL TO BE REMOVED (REFER TO 1/SD-001 FOR DETAILS)

EXISTING 4" CONCRETE FILL TO BE REMOVED, CONCRETE SOLID SLAB OR JOISTS BELOW TO REMAIN

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO REMAIN

16 WF 36 — DENOTES EXISTING FLOOR BEAM TO BE DEMOLISHED

NOTE: REFER TO SHEET SD-001 FOR DEMOLITION NOTES AND FLOOR CONSTRUCTION DETAILS.



3 PART 16TH FLOOR/ROOF FRAMING PLAN - GYM DEMOLTION

1/8" = 1'-0"

NOTES:

1. TOP OF EXISTING FINISH CONCRETE FLOOR ELEVATION +216.09'.
2. ENTIRE ROOF CONSTRUCTION REMAINS WITHOUT MODIFICATION.

SUGGESTED SEQUENCE OF DEMOLITION WORK

SEQUENCE OF WORK SUGGESTED IS IN ORDER TO PERFORM DEMOLITION WORK FOR GYM STRUCTURE ON THE 15TH FLOOR, FOLLOWED BY THE 14TH FLOOR:

1. INSTALL TEMPORARY HORIZONTAL STEEL BRACING WT6 UNDER EXISTING STEEL FRAMING AS SHOWN ON DRAWING SD-002, DETAIL 1, WITH CONNECTION TO EXISTING BEAMS AT EACH END.
2. INSTALL STEEL METAL DECK PLATFORM AT THE LEVEL OF BOTTOM FLANGE OF STEEL BEAM 12WF (TYPE NS 166A) TO SUPPORT DEMOLISHED CONCRETE AND SECURE IT TO THE BEAMS. REUSE OF DECK IS POSSIBLE.
3. DEMOLISH CONCRETE TWO WAY JOIST FLOOR SYSTYEM BETWEEN COLUMN LINES H-I, J-K. EXISTING STEEL FRAMING REMAIN IN PLACE, INCLUDING SOLID CONCRETE SLAB BETWEEN COLUMN LINES I-J. REMOVE CONCRETE FILL FIRST AND DISPOSE OF IT, BEFORE CONTINUING WITH JOISTS.
4. INSTALL NEW HSS REINFORCEMENT ELEMENTS ON A 3 SIDES OF GYM AREA AS SHOWN ON PLAN 2 AND DETAILS.
5. PROVIDE TEMPORARY ERECTION BRACING FOR EXISTING STEEL COLUMNS AND PERMANENT STEEL DIAGONAL BRACING ALONG COLUMN LINES 1 AND 5.
6. REMOVE SOLID CONCRETE SLAB AND STEEL FRAMING ALONG COLUMN LINES I AND J.
7. REINFORCE STEEL COLUMNS I-1, J-1 AS SHOWN ON DRAWINGS.
8. REMOVE EXISTING STEEL GIRDERS W30 AT COLUMN LINES 2, 3, AND 4 AND REINFORCE EXISTING STEEL COLUMNS AT COLUMN LINES 2, 3, AND 4 FULL LENGTH.
9. TEMPORARY BRACING AND/ OR SHORING SHALL BE INTRODUCE WHERE NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED. SUCH BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY AND IS SUBJECT TO CONTROLLED INSPECTION. CONTRACTOR SHALL SUBMIT PROCEDURES, DESIGN CALCULATIONS AND DETAIL DRAWINGS FOR THE COMPLETE PROPOSED SUPPORT SYSTEM TO ENGINEER FOR APPROVAL. ALL SUBMITTALS SHALL BE SEALED BY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
10. UPON COMPLETION OF DEMOLITION WORK ON 15TH FLOOR PROCEED TO PERFORM DEMOLITION WORK ON 14TH FLOOR.
11. INSTALL TEMPORARY HORIZONTAL STEEL BRACING AS INDICATED ON ITEM 1.
12. INSTALL STEEL METAL DECK PLATFORM AS INDICATED ON ITEM 2.
13. DEMOLISH CONCRETE TWO WAY JOIST FLOOR SYSTEM AS INDICATED ON ITEM 4.
14. INSTALL NEW HSS REINFORCEMENT ELEMENTS AS INDICATED ON ITEM 3.
15. PROVIDE TEMPORARY ERECTION BRACING AS INDICATED ON ITEM 5, AND PERMANENT DIAGONAL BRACING ALONG COLUMN LINES 1 AND 5.
16. INSTALL NEW STEEL FRAMING ON 14TH FLOOR AS SHOWEN ON DRAWING S-211-2.
17. PROVIDE CONCRETE SLAB CONSTRUCTION TO COMPLY WITH DRAWING S-211-2.

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CONTRACT: CONSTRUCTION

TITLE: PHASE 1 WORK: DEMOLITION, ASBESTOS REMOVAL, STRENGTHEN FLOOR SLABS & REPLACE WINDOWS

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

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
3	7-17-2014	ADDENDUM NO. 3
	5-28-2014	BID DOCUMENT

PROJECT NUMBER:	44579
DESIGNED BY:	MR
DRAWN BY:	CJL
FIELD CHECK:	ACC/JM
APPROVED:	ACC

SHEET TITLE: GYM DEMOLITION PLANS

BUILDING NUMBER: 102

DRAWING NUMBER: SD-211-2

SHEET