



**Facilities & Operations
Modernization Project Office
Building 134C
P.O. Box 5000
Upton, NY 11973-5000**

Date: May 12, 2010

ADDENDUM NO. 2
to
SPECIFICATIONS AND DRAWINGS
to
Interdisciplinary Science Building - Phase I
Bldg 734

GENERAL: This Addendum is to amend Drawings and Specifications dated April 9, 2010 issued with the Bid Documents.

Material, work, and workmanship, except where specified otherwise in this Addendum, shall conform to all requirements of Contract Documents and become a part thereof.

ESH&Q
Risk Level A3-minor
Addendum 2

Activity No. 74905/65148
Project No. 11733

MPO-007M, Rev. 0; 9/15/09; Approval:	Page 1 of 17
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DRAWING(S): The following drawing(s) are hereby replaced with copies showing
Addendum #02, dated 5/7/2010:

Sheet No. CD-100
Sheet No. C-300
Sheet No. C-400
Sheet No. C-401
Sheet No. C-500
Sheet No. C-500.1
Sheet No. L-100
Sheet No. L-100.1
Sheet No. L-200
Sheet No. C-600
Sheet No. C-600.1
Sheet No. C-601
Sheet No. C-601.1
Sheet No. C-604
Sheet No. S-001
Sheet No. S-101B.1
Sheet No. S-203
Sheet No. S-204
Sheet No. S-205
Sheet No. S-507
Sheet No. A-350
Sheet No. A-420
Sheet No. A-441
Sheet No. A-442
Sheet No. A-444
Sheet No. I-601
Sheet No. I-601.1
Sheet No. QL-011
Sheet No. QL-101A
Sheet No. QL-101A.1
Sheet No. QL-101C
Sheet No. QL-102A
Sheet No. QL-102A.1
Sheet No. M-100
Sheet No. M-101A
Sheet No. M-102A

Sheet No. M-103A
Sheet No. M-201A
Sheet No. M-301
Sheet No. M-302
Sheet No. M-303
Sheet No. M-304
Sheet No. M-305
Sheet No. M-306
Sheet No. M-401
Sheet No. M-505
Sheet No. M-602
Sheet No. M-603
Sheet No. M-701
Sheet No. M-806
Sheet No. M-101B.1
Sheet No. M-102B.1
Sheet No. M-103B.1
Sheet No. M-307
Sheet No. FXE-001
Sheet No. FX-101A
Sheet No. FX-103A
Sheet No. PP-103A
Sheet No. PP-401A1
Sheet No. PP-401A2
Sheet No. PP-501
Sheet No. PP-601
Sheet No. PP-640
Sheet No. PP-644
Sheet No. EP-100
Sheet No. EP-101A
Sheet No. EP-102A
Sheet No. EP-103A
Sheet No. EP-103B.1
Sheet No. E-601
Sheet No. E-604
Sheet No. E-720
Sheet No. E-728
Sheet No. E-740
Sheet No. Y-001
Sheet No. Y-100
Sheet No. Y-101A
Sheet No. Y-101B.1
Sheet No. Y-102A
Sheet No. Y-103A
Sheet No. Y-103B

Sheet No. Y-103B.1
Sheet No. Y-601
Sheet No. Y-601.1

DRAWING REVISIONS: The following drawing(s) are hereby revised as follows:

CIVIL/LANDSCAPE

Drawings CD-100

1. Steam Manholes and vent revised to remain.
2. Removed note #9.

Drawings C-300

1. Removed dimensions for sidewalk north of bldg. 464. Added dimension for new sidewalk along CFN parking lot.

Drawings C-400

1. Pedestrian cross-walk added on Rochester.
2. Note #3 added and labeled Steam Manholes to west of ISB.

Drawings C-401

1. Removed proposed sidewalk north of bldg. 464.
2. Added sidewalk along CFN parking lot.

Drawings C-500

1. Grading changed to west of ISB.

Drawings C-500.1

1. Grading changed to west of ISB.

Drawings L-100

1. Added 3 trees to west of ISB.

Drawings L-100.1

1. Added 3 trees to west of ISB.

Drawings L-200

1. Added trees to plant schedule.

Drawings C-600

1. Label added/revised to indicate steam MH-73 'to remain'.

Drawings C-600.1

1. Label added/revised to indicate steam MH-73 'to remain'.

Drawings C-601

1. Labels modified at storm piping to CFN basin. Piping labels revised to remove reference to general note #6 regarding reuse of ductile iron piping. Select piping material revised to be HDPE. General note #6 regarding pipe reuse has been removed. Note/label added stating MH-73 to remain.

Drawings C-601.1

1. Labels modified at storm piping to CFN basin. Piping labels revised to remove reference to general note #6 regarding reuse of ductile iron piping. Select piping material revised to be HDPE. General note #6 regarding pipe reuse has been removed. Note/label added stating MH-73 to remain.
2. Label added/revised to indicate steam MH-73 'to remain'.

Drawings C-604

1. Label added/revised to indicate steam MH-73 'to remain'.

STRUCTURAL

Drawing S-001

1. Revised entity listed in note O.1 as responsible for employing the special inspections agency from BNL to the Contractor.

Drawing S-101B.1

1. Located existing underground vault relative to building grid.
2. Lowered column footings at E/1 and F/1.

Drawing S-203

1. Added F-9 to Footing Schedule.

Drawing S-204

1. Revised location of two wall openings in SW-9.

Drawing S-205

1. Revised location of wall opening in SW-16 and SW-17.

Drawing S-507

1. Adjusted location of Stair #1 footing.
2. Added corbel to SW-2 (shown in section 3)

ARCHITECTURAL / INTERIOR

Drawings A-350

1. Change notation from Precast concrete panel to limestone.

Drawings A-420

1. Change TA-7A to TA-7C

Drawings A-441

1. Clarification note regards to STM is OFOI

Drawings A-442

2. Revise piping layout

Drawings A-444

2. Revise piping layout

Drawing I-601

1. Changed PWP spec number to 064216

Drawing I-601.1

1. Changed PWP spec number to 064216

LAB PLANNING

Drawings QL-011: Fumehood & Sink Schedules:

The depth of the floor mounted fumehood has been revised from 37.25" to 35" and 41" as below:

Room #	Room Name	Fume Hood Type	Change in Depth
134	Furnace Room	FMFH72-00	41"
137	Synthesis Lab	FHFH72-10	35"
223	Torch Lab	FMFH72-14	35"
225	Furnace Lab	FMFH72-00	41"
225	Furnace Lab	FMFH72-14	35"
225	Furnace Lab	FMFH72-14	35"
237	Biofuel Process Science	FMFH72-16	35"
267	Hydride Synthesis	FMFH48-13	35"

- Drawings QL-101A: First Floor Lab Eq. Plan – Area A:
Room 138, Characterization Lab; revise note, “Crane Rail with ½ ton hoist (manual) by others.” to read as “Crane Rail with ½ ton hoist (manual).”
- Drawings QL-101A.1: First Floor Lab Eq. Plan – Area A:
Room 138, Characterization Lab; revise note, “Crane Rail with ½ ton hoist (manual) by others.” to read as “Crane Rail with ½ ton hoist (manual).”
- Drawings QL-101C: Basement & First Floor – MBE/ULV:
Pump room 196, Pump room 197; ‘E-4 Cylinder Restraint’ tag added to cylinders.
- Drawings QL-102A: Second Floor Lab Eq. Plan – Area A:
Room 229 General Purpose Lab; revise note, “Elec-hoist monorail by others” to read as “Elec-hoist monorail.”
- Drawings QL-102A.1: Second Floor Lab Eq. Plan – Area A:
Room 229 General Purpose Lab; revise note, “Elec-hoist monorail by others” to read as “Elec-hoist monorail.”

MECHANICAL

- Drawings M-100: HVAC Plan - Basement
1. Revise fire dampers to fire/smoke dampers at shafts.
 2. Delete fire damper for the Lab exhaust duct.
- Drawings M-101A: HVAC Plan – First Floor – Area A:
1. Revise fire dampers to fire/smoke dampers at shafts.
 2. Delete fire damper for the Lab exhaust ducts, revise to sub-duct systems.
 3. Diffuser type revised in Corridor C04.
 4. An air terminal unit and a Phoenix exhaust valve added in Clean Room area.
 5. Flammable gas sensors added for gas cabinets.
- Drawings M-102A: HVAC Plan – Second Floor – Area A:
1. Revise fire dampers to fire/smoke dampers at shafts.
 2. Delete fire damper for the Lab exhaust ducts, revise to sub-duct systems.
 3. Flammable gas sensors added.
- Drawings M-103A: HVAC Plan – Penthouse – Area A:
1. Revise fire dampers to fire/smoke dampers at shafts
 2. Delete fire damper for the Lab exhaust ducts, revise to sub-duct systems.
- Drawings M-201A: HVAC Piping – First Floor – Area A
1. New air terminal unit and exhaust control valve added, and designations revised.
- Drawings M-301 to M-306: Building Section
1. Sections updated, plumbing pipes included.
- Drawings M-401: Enlarged First Floor MER:
1. Pipe sizes revised.
- Drawings M-505: Details:
1. Detail 5 replaced with a sub-duct detail.
- Drawings M-602: Schedules:
1. VVR-E-227 deleted from air terminal unit schedule.
- Drawings M-603: Schedules:
1. VVR-E-227 added to supply air valve schedule.
 2. VEV-E-150 to VEV-E-158 numbers revised, VEV-E--155 and -157 are new.
- Drawings M-701: Flow Diagrams:
1. Control sequence added.
 2. Chiller expansion tank deleted.
- Drawings M-806: Control Diagrams:

- 1. Control points added for flammable gas storage.
- Drawings M-101B.1: HVAC Plan – First Floor – Area B:
 - 1. Revise fire dampers to fire/smoke dampers at shafts.
 - 2. Delete fire damper for the Lab exhaust duct.
- Drawings M-102B.1: HVAC Plan – Second floor – Area B:
 - 1. Revise fire dampers to fire/smoke dampers at shafts.
 - 2. Delete fire damper for the Lab exhaust duct, revise to sub-duct system.
- Drawings M-103B.1: HVAC Plan – Penthouse – Area B:
 - 1. Revise fire dampers to fire/smoke dampers at shafts.
 - 2. Delete fire damper for the Lab exhaust duct.
- Drawings M-307: Building Section
 - 1. Sections updated, plumbing pipes included.

PLUMBING

- Drawings FXE -001
 - 3. Revised temperature rating of skylight sprinkler.
 - 4. Added model number for dry sprinkler head
- Drawing FX-101A
 - 1. Changed box from liquid storage cabinet to cylinder cabinet
- Drawing FX-103A
 - 1. Revised location of hose valves
- Drawings PP-103A
 - 3. Revised location of trap primers
- Drawings PP-401A1
 - 3. Revised location of tie-in point of tempered water return line to show change in detail
 - 4. Revised location of trap primer
- Drawing PP-401A2
 - 1. Changed floor drain tag to D-3 in clean room chase
- Drawing PP-501
 - 1. Revised detail one to show tempered water
- Drawings PP-601
 - 2. Added design criteria for heat exchanger
- Drawing PP-640
 - 1. Revised location of hose valves
- Drawing PP-644
 - 1. Changed tag on riser diagram

ELECTRICAL

- Drawing EP-100
 - 1. Coordinated plumbing trap primers.
- Drawing EP-101A
 - 1. Coordinated plumbing trap primers.
 - 2. Coordinated hot water circ pumps.
 - 3. Coordinated safety shower circ pump.
 - 4. Coordinated plumbing pump name change
 - 5. Coordinated HVAC ATU additions

Drawing EP-102A

1. Coordinated plumbing trap primers.

Drawing EP-103A

1. Coordinated plumbing trap primers.
2. Added circuit for pre treated skid.

Drawing EP-103B.1

1. Coordinated plumbing trap primers.

Drawing E-601

1. Added isolation bypass to ATS's..

Drawing E-604

1. Coordinated plumbing pump name change.

Drawing E-720

1. Coordinated HVAC ATC additions

Drawing E-728

1. Coordinated plumbing pump name change.

Drawing E-740

1. Added circuit for pre treatment skid.

Drawing Y-001

1. Added symbol for spot smoke detector mounted at duct opening.
2. Revised air-sampling smoke detector port symbol.
3. Added symbols for emergency alarm system initiating devices and notification appliances.

Drawing Y-100

1. Coordinated duct smoke detectors locations and labels with fire/smoke damper changes.

Drawing Y-101A

1. Coordinated duct smoke detectors locations and labels with fire/smoke damper changes.
2. Coordinated sprinkler alarm and supervisory switch locations with fire protection changes.
3. Added emergency alarm system initiating devices and notification appliances for service corridor outside clean room.
4. Revised air-sampling smoke detection port layout in clean room.

Drawing Y-101B.1

1. Coordinated duct smoke detectors locations and labels with fire/smoke damper changes.

Drawing Y-102A

1. Coordinated duct smoke detectors locations and labels with fire/smoke damper changes.
2. Coordinated sprinkler alarm and supervisory switch locations with fire protection changes.
3. Added fire alarm initiating devices and notification appliances in clean room mechanical room.
4. Added duct mounted smoke detectors in clean room AHU's supply ducts.
5. Deleted second air-sampling smoke detection system in clean room AHU

return ducts.

Drawing Y-103A

1. Coordinated duct smoke detectors locations and labels with fire/smoke damper changes.
2. Coordinated sprinkler alarm and supervisory switch locations with fire protection changes.

Drawing Y-103B

1. Coordinated sprinkler alarm and supervisory switch locations with fire protection changes.

Drawing Y-103B.1

1. Coordinated duct smoke detectors locations and labels with fire/smoke damper changes.
2. Coordinated sprinkler alarm and supervisory switch locations with fire protection changes.

Drawing Y-601

1. Coordinated duct smoke detectors locations and labels with fire/smoke damper changes.
2. Coordinated sprinkler alarm and supervisory switch locations with fire protection changes.
3. Added emergency alarm system initiating devices and notification appliances for service corridor outside clean room.
4. Revised air-sampling smoke detection port layout in clean room.
5. Added fire alarm initiating devices in clean room mechanical room.
6. Added duct mounted smoke detectors in discharge of clean room AHU's.
7. Deleted second air-sampling smoke detection system in clean room AHU return ducts.

Drawing Y-601.1

1. Coordinated duct smoke detectors locations and labels with fire/smoke damper changes.
2. Coordinated sprinkler alarm and supervisory switch locations with fire protection changes.
3. Added emergency alarm system initiating devices and notification appliances for service corridor outside clean room.
4. Revised air-sampling smoke detection port layout in clean room.
5. Added fire alarm initiating devices in clean room mechanical room.
6. Added duct mounted smoke detectors in discharge of clean room AHU's.
7. Deleted second air-sampling smoke detection system in clean room AHU return ducts.

SPECIFICATIONS: The following specifications are hereby modified:

Section 00 73 10 Supplementary Conditions

1. Added language on Drug and Alcohol testing.

Section 03 08 13 Concrete Testing and Evaluation - BNL:

1. Revised language regarding responsibility to hire special inspections agency to refer to the Contractor.

Section 03 31 00 Concrete Materials and Proportioning:

1. Deleted reference to BNL paying for inspections defined in 03 08 13.

Section 03 31 10 Concrete Mixing, Placing, Jointing and Curing:

1. Add par. 2.1.F – Bond Breaker

Section 05 12 10 Steel Structural:

1. Revised language regarding responsibility to hire special inspections agency to refer to the Contractor.

Section 05 45 23 Equipment Support System:

1. Par 1.2.C.2.a – Maximum Spacing: 48” o.c.
2. Par 1.2.C.2.b – Provide minimum ¾” concrete coverage as indicated.

Section 07 42 43 Aluminum Composite Material (ACM) System:

1. Part 2.1.C.2 : Change “Dry” joint system to “Wet” joint system

Section 11 53 13 Fume hoods and exhaust devices:

1. Part 2.2.E.2: Drawing Designations :
 - Fumehood designations to represent vertical sash only.
CFH48HV-xx to read as, **CFH48V-xx**
CFH60HV-xx to read as, **CFH60V-xx**
CFH72HV-xx to read as, **CFH72V-xx**
2. Part 2.2.E.2: Drawing Designations:
 - Add 8FT benchtop fumehood to read as:
d. 8FT benchtop : CFH96V-xx
3. Part 2.2.F.2: Drawing Designations:
 - Add 4 FT floor mounted fume hood to read as:
b. 4 FT floor-mounted: FMFH48-xx
4. Part 2.2.F.3: Depth 28 IN interior, 37-1/4 IN exterior, nominal.

- Revise the above specification to read as:
 3. Depth:
 - a. 24-1/2" IN interior for 35 IN exterior, nominal.
 - b. 30-1/2" IN interior for 41 IN exterior, nominal.
- 5. Part 2.3: Fume extractor arms (Snorkels):
 - Add to the above specification the following:
 - C. Basis of design: Nederman Original Fume Extractor Arm. 6-1/4 IN (58mm) hose diameter, hinged, self-supporting air extractor arm assembly, or equivalent:
 1. Arm shall consist of 360 degree swivel elbow, support flange, internal support, pre-set joints with adjustable wear discs, white fiberglass-reinforced PVC hose, hood, and flange for 6 IN(150mm) exhaust duct. Provide protective grille to prevent objects from being drawn into arm.
 2. Fume extractor shall be a constant volume device with no manual damper.
 3. Mounting Bracket: 3 FT (915mm) ceiling bracket. Manufacturer shall coordinate location of duct connection with the work of Division 23. Provide ceiling escutcheon.
 4. Bracket Support: Provide slotted channel framing above ceiling as required to suspend and support ceiling bracket from structure above.
 5. Arm Length:
 - a. 10 FT (3.05m); horizontal and vertical joints.
 6. Silencer.
 7. Hood Type:
 - a. Metal hood.
 8. Automatic damper.

Section 12 35 53 Laboratory Casework and Other Furnishings:

1. Part 2.1.A.2: Corrosives and Flammable Liquid/Solvent Storage Cabinets:
 - Add to the above specification the following:
 - e. Basis of design:
 - 1) Eagle 45 gal. Flammable Storage Cabinet (manual close); Product #: EM-1947. Dimensions 43 IN wide x 18 IN deep x 65 IN tall.
 - 2) Eagle 45 gal, Acid/Corrosive Cabinet (two door, self-closing); Product #: EMCRA-4510. Dimensions 43 IN wide x 18 IN deep x 65 IN tall.
 - 3) Eagle 60 gal. Flammable Storage Safety Cabinets (two-door, self-closing); Model#: 6010. Dimensions 31-1/4 IN wide x 31-1/4 IN deep x 65 IN tall.

Section 13 21 25 Gown Room Furnishings:

1. New added section

Section 13 49 57 Radio Frequency Shield Enclosure:

MPO-007M, Rev. 0; 9/15/09; Approval:	Page 11 of 17
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1. Add par. 1.1.A.3.d regards to ladder support
2. Add par. 2.2.G.3.a refer to Drawing A-443
3. Add par. 2.2.H.3.a refer to Drawing A-443

Section 22 10 16 Plumbing Piping:

1. Re-issued

Section 22 66 00 Waste Transfer:

1. Re-issued

Section 23 22 18 Welding Pressure Piping:

1. New added section

Section 23 35 00 Exhaust and Ventilating Fans:

1. Par. 2.5.A.1 – revised direct drive to belt drive

Section 25 50 50 Flammable Gas Monitoring System:

1. New added section

Section 26 05 23 Conduits:

1. Add 1.1 Summary reference to Appendix B

Section 26 36 23 Automatic Transfer Switches:

2. Add isolation bypass to ATS's

Section 28 31 00 Fire Alarm System:

1. Add par. 1.1.D
2. Add par. 1.4.A.6.e
3. Revise par. 2.2.F
4. Add par 2.2.I - Non-addressable Manual Pull Stations, and 2.2.J – Emergency alarm Notification Appliances

Section 31 50 00 Earth Retention Systems:

1. New added section

Specification Sections	
	TOC – AD2
	03 08 13
	03 31 00
	03 31 10
	05 12 10

	05 45 23
	07 42 43
	11 53 13
	12 35 53
	13 21 25
	13 49 57
	22 10 16
	22 66 00
	23 22 18
	23 35 00
	25 50 50
	26 05 33
	26 36 23
	28 31 00
	31 50 00
	Furniture and Finish specification package volume 1
	Appendix B Electrical Conduits and Gas Lines Cast into the OASIS Si-STM inertia Block

CLARIFICATIONS:

1. The acoustical panels in the ULV chambers are from top of grating to top of wall. Approx height of 17'
2. The process cooling water heat exchanger schedule is shown on Drawing PP-601, also Specification Section 22 67 23.
3. Reference Spec section 074243 specifications Page 3 paragraph C Numbers 2 & 4 are describing the panels as a dry joint system and a 1/2" sealant joint w/backer rod. The design intent is to have wet joints consisting of 1/2" sealant joint w/backer rod.
4. Ref Spec 01 31 00 Construction Progress Documentation, Substantial Completion shall be the 96th week of the 104 week schedule and Beneficial Occupancy shall be the 102nd week of the 104 week schedule.
5. Refer to Section 06 42 16 for PWP-1 Prefinished Wall Panel System.

6. Refer to similar wall sections 1/A-371 and 2/A-320 for details of exterior wall sections along column line '5' for the base bid.
7. Refer to interior wall elevation at 1/A-435 and wall section 1/I-302 for interior wall sections along column line '5' for the alternate bids.
8. Spec section 06 42 16 takes precedence over the drawings. Note attached revised Finish Key on drawing I-601.
9. Refer to sheet 11/QL-502 for cleanroom wall liner, and spec section 13 61 16 for liner wall.
10. Segmented framing & glass is acceptable for the curtain walls per the dimensioning specified.
11. Section 09 84 13 is a sound damping material installed over the RF shielding.
12. In accordance with Specification Section 09 51 00,
 - i. Acoustical Ceiling Tile AM-1 (office, lab) is 2x2 tile.
 - ii. Acoustical ceiling Tile AM-2 (specialty lab) is 2x2 tile
 - iii. Acoustical ceiling Tile AM-3 (corridor) is 2x8 plank
 - iv. Acoustical ceiling tile AMP-1 (lobby) is 2x6 metal plank
13. Specification section 01 10 00 "Summary of Work", item 1.3,C states that a separate contract is to be issued by BNL for the "Early Site Preparation Package" which consists of site demolition of paving, building foundations subsurface and rough grading of the site. The civil drawings issued in the bid set indicate as build conditions after work of the separate contract has been completed.
14. The Soil Borings and Geotech Report indicate two to six feet of "Fill" within the footprint of the new building. The top six feet of unsuitable material (fill) has been removed from the building footprint as part of pre-construction site work. In areas of utilities, fill shall be removed and replaced with structural fill. Some surface removal of fill should be anticipated prior to foundation work.
 1. Please refer to structural sheet for further requirement on fill:
 - i. Per S-001 note B.8: ANY EXISTING FILL MATERIALS OR UNSUITABLE SOILS AS DETERMINED BY THE GEOTECHNICAL ENGINEER WITHIN THE BUILDING FOOTPRINT AND THE FOUNDATION AND SLAB ZONES OF INFLUENCE SHALL BE EXCAVATED AND REPLACED WITH PROPERLY COMPACTED FILL.
 - ii. Per note B.9: THESE [FILL] SOILS ARE NOT SUITABLE FOR SUPPORT OF FOUNDATIONS OR SLABS ON GRADE AND SHALL BE EXCAVATED DOWN TO THE EXISTING NATIVE SOILS BENEATH AND REPLACED.
15. Outside of the building footprint, in utility trenches, backfill with structural fill, under pavements- refer to geotechnical report.

16. A two week bid extension has been granted in accordance with Amendment #2.
17. Drawings QL-101A and QL-102A have been revised to both show the crane rail with hoist at the Characterization Labs to be CFCI.
18. A revised Bid Sheet is included with Amendment No.2, which leaves blank the areas for the Contractor's Contractual Representative and his contact information .
19. General Terms and Conditions Article 42(c) requires the Contractor to "accept BSA's DOE approved Worker Safety and Health Program and the Integrated Safety Management Program as its own" and to manage the work in accordance to those programs. Links are provided below.
1. Links Management Program are as follows: Integrated Safety Management - <http://www.bnl.gov/qmo/ISM.asp> , Worker Safety and Health Program – http://www.bnl.gov/esh/shsd/SHSD_Programs.asp , Worker Safety and Health, Construction Safety – https://sbms.bnl.gov/sbmsearch/subjarea/117/117_SA.cfm?parentID=117 , Safety Requirements for a Safe Workplace – <http://www.bnl.gov/ppm/safetyLinks.asp>
20. BSA requires the Contractor to conduct drug and/or alcohol screening of workers Refer to revised Specification Section on Supplementary Conditions for specific requirements.
21. Article 27 of the General Terms and Conditions of the contract gives BSA the right to approve or disapprove Subcontractors without change in contract price. The sole criteria for BSA rejection of a Subcontractor be the proposed Subcontractor's failure to meet the National Average standards for OSHA DART Rate, OSHA Recordable Incident Rate and/or EMR.
- a. Elevator shafts EL-01 and EL-02 are not required to be naturally nor mechanically vented. No vent is needed for elevator serving 3 stories. Please refer to NYSBC section 3004
- Per NYSBC SECTION 3004 - HOISTWAY VENTING**
- 3004.1 Vents required.** Hoistways of elevators and dumbwaiters penetrating more than three stories shall be provided with a means for venting smoke and hot gases to the outer air in case of fire.
22. The cleanroom automatic doors 139B and 141 are automatic sliding doors. All cleanroom doors are on cleanroom door schedule. Refer to sheet QL-210 and spec section 08 42 30.

23. For Alternate #7 all the PWP should be deleted from the project.
24. Elevation 8/I-201–mail slots are on sheet IF-101 room 111 and IF-102 room 215.
25. Sections 3/A-311, 3/A-313, 1/A-320, and 4/A-330 – The material of the internal portion of the window sill is painted gypsum.
26. Security drawings:
 - a. Only conduit and cable shall be provided and installed under the contract, no cameras.
27. The BNL Health and Safety Plan template is available online.
 - a. https://sbms.bnl.gov/sbmsearch/subjarea/117/117_Exh3.cfm?ExhibitID=6743
28. Delete all references to owner testing agencies for field quality control. Contractor shall retain qualified testing agencies for soil, steel and concrete testing.
29. Contractor’s HASP is not required with bid. Only the successful bidder will be required to submit a HASP.
30. Furniture Alternate: Only manufacture approved installers are permitted to install the furniture. Substitutions of the furniture manufacturers are not permitted. Furniture should be bid per the specifications. GSA Pricing discounts on furniture purchases will be allowed for use by bidders. Furniture is not required to be procured through Office Environments International.
31. Refer to Addendum 2, revised drawing PP-501 which revised detail 1 to show the TW mixing valve. Two mixing valves for the Domestic water and the Laboratory water as shown on details 1 7 2 of PP-501 are not required. Provide the single electronic mixing valve EVM-1 for each system as specified in 22 42 00 paragraph 2.7.
32. Refer to Addendum 2, revised Plan PP-401A2 floor drains in labs to be D-3.
33. Spec section 22 10 16 para 2.5 floor drains type D-3.
34. Refer to Section 22 14 00 Storm Drainage System Paragraph 2.1, Materials E. Pipe underdrain for the perimeter drain pipe and fittings shown on plan PP-503.
35. Plan PP-103A, vacuum Equipment notes to see detail 1/P-621. Reference has been revised to be detail 2 on PP-501.

36. Spec section 22 63 13 for specialty gases 2.7 C Fittings: All specialty gas pipe and fittings shall be welded.
37. Spec section 22 63 13 for specialty gases 2.5 C Containment Tubing : The Silane, Ammonia, Methane, Hydrogen and Carbon Monoxide should be run with containment tubing.
38. Spec section 226313 Specialty Gases 1.1 C Scope: Gas manifolds are to be provided where the piping is indicated to be capped.
39. Plumbing Spec section 226719 2.1 A. Process Cooling Water (PCW) specifies pipe materials for Mechanical Room 150 ONLY to be CVPVC Sch 80. Pipe materials spec 2. Specifies stainless steel with welded joints for 4" and under. All of the 4" and 3" PCWS and PCWR piping throughout the labs and corridors are to be stainless steel with welded joints.
40. Drawing QL-101D Cleanroom Equipment Schedule – Gown Room Class 1000 and Pregown Room both list equipment as CFCI and refer to specification 132125 which is provided as part of amendment 2.
41. The parking lot being constructed as part of the site preparation contract will be completed prior to the start of the ISB construction.
42. The Supplemental Conditions Article 1.10 Construction Safety, paragraph A.1. refers to a "specific assignment of an individual" as the Safety Representative. The safety manager shall be a fulltime member on the jobsite who only performs safety management duties. Work is not permitted to be performed if this individual is not on site.
43. The Site Preparation Contractor has removed all unsuitable material within the new building footprint, including the alternate West Wing Addition, and replaced the east side of the base footprint with suitable compacted structural fill. All utilities within the new building footprint, including the Alternate West Wing Addition, have either been re-routed or removed to locations outside the new building footprint.
44. The Occupational Medicine Plan is required after 30 days of work at BSA within a 365 day period.
45. Construction materials may be delivered to the site during normal working hours and special arrangements can be made for deliveries outside of normal working hours.