STATE OF NEW JERSEY
SCHOOLS DEVELOPMENT AUTHORITY

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Addendum #5

New Jersey Schools Development Authority
Office of Procurement
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Phone: 609-858-2984
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Date: **December 4, 2015**

PROJECT #: **WT-0022-B01**
New Trenton Central High School
Trenton Public Schools

DESCRIPTION: **Addendum #5**

This addendum shall be considered part of the Design-Build Information Package issued in connection with the referenced project. Should information contained in this Addendum conflict with the Design-Build Information Package, this Addendum shall supersede the relevant information in the Design-Build Information Package.

A. CHANGES TO THE PROCUREMENT PROCESS:

NOTE: Additions are shown in **bold and underline** text; deletions are shown in ~~*strikethrough and italics*~~.

1. **Modifications to the Advertisement to Extend Date for Submission of Price and Technical Proposals:**
   a. The first two paragraphs of Subsection D of the "Procurement Submission Dates and Deadlines" section of the Bid Advertisement for this procurement shall be modified to extend the date for submission of Price and Technical Proposals, as follows:

      Procurement Submission Dates and Deadlines:

      D. Interested firms must submit a Technical Proposal, which provides responses to the non-price "other factors" evaluative criteria requirements of the RFP. The Technical Proposals must be received by the NJSDA by **2:00 PM** on ~~*December 17, 2015*~~ **December 29, 2015.** Faxed or e-mailed submittals shall not be accepted.

      Bidders must simultaneously submit a sealed Price Proposal which must be

submitted with the Technical Proposal and received by the NJSDA by **2:00 PM** on ~~*December 17, 2015*~~ **December 29, 2015**. Faxed or e-mailed Price Proposals shall not be accepted. Any Technical or Price Proposals received after this date and time will be returned unopened. Technical Proposals and sealed Price Proposals shall be delivered to **Marty Taylor** at the NJSDA address below:

2. **Modifications to the Advertisement to Extend Date for Opening of Price Proposals:**

   a. Subsection E of the "Procurement Submission Dates and Deadlines" section of the Bid Advertisement for this procurement, shall be modified to extend the date for opening of Price Proposals, as follows:

      E. The sealed Price Proposals shall be publicly opened and read at a bid opening at the NJSDA office on ~~*December 17, 2015*~~ **January 20, 2016** at **2:00 PM.**

3. **Modifications to the Request for Proposals to Extend Date for Submission of Price and Technical Proposal:**

   a. **REVISE:** The fourth paragraph of Section 1.3 B.2 ("Technical Proposal"), as such section was modified by previous addendum, shall be further modified as follows, to change the due date for submission of the Technical Proposal to ~~*December 17, 2105*~~ **December 29, 2015:**

      2. Technical Proposal

      The Technical Proposals must be received by the NJSDA by 2:00 PM on ~~*December 17, 2015*~~ **December 29, 2015**. Faxed or e-mailed Submittals shall not be accepted.

   b. **REVISE:** The fourth paragraph of Section 1.3 B.3 of the RFP ("Price Proposal"), shall be modified as follows, to change the due date for submission of the Price Proposal to ~~*December 17, 2015*~~ **December 29, 2015**.

   The Price Proposal must be sealed and submitted with the original Technical Proposal and received by the NJSDA by **2:00 PM** on ~~*December 17, 2015*~~ **December 29, 2015.** Faxed or e-mailed Price Proposals shall not be accepted.

B. CHANGES TO THE PROJECT MANUAL:

NOTE: Additions are shown in **bold and underline** text; deletions are shown in ~~*strikethrough and italics*~~.

1. Volume 1 Procedural Specifications

a. **MODIFY:** In Section 01010, Summary of Work, modify Paragraph 2.1.A. as follows:

1. Controls: Andover.

2. Control valves: Belimo.

3. Building automation system: Schneider Electric/Andover Continuum.

~~*4. Continuous hinges: Roton.*~~

~~*5. Exit devices, removable mullions and power transfer: Von Duprin.*~~

~~*6. Electric strikes: HES.*~~

~~*7. Closers and actuators: LCN.*~~

4. Flush valves: Sloan.

5. Faucets: Chicago Faucets.

~~*8.*~~ **6.** Lock cylinders and position switches: Schlage.

~~*9. Thresholds: Pemko.*~~

~~*10. Proximity readers: HID Global.*~~

~~*11.*~~ **7.** Security system: Lenel.

~~*12.*~~ **8.** Fire alarm system: Edwards.

~~*13.*~~ **9.** Clock system: Sapling.

~~*14.*~~ **10.** Public address/sound system: Rauland.

~~*15.*~~ **11.** Intrusion alarm system: Bosch.

2. Volume 3 DOE Approved Documents – Educational Specifications

a. REPLACE: Educational Specifications, Room Area Calculations pages E-4, 5, 27, 30, 49, 53, 67, 72, 76, 78, 81, 85 and 92, dated 09/22/2015, with Revised pages E-4, 5, 27, 30, 49, 53, 67, 72, 78, 81, 85 and 92, dated 12/03/2015, issued herewith as Attachment 5.1 – 5.13. All other plans, sections and elevations are modified accordingly by implication.

C. CHANGES TO THE PERFORMANCE SPECIFICATIONS:

NOTE: Additions are shown in **bold and underline** text; deletions are shown in ~~*strikethrough and italics*~~.

1. Volume 2 Performance Specifications

a. MODIFY: Modify Section PS1030.00 Project Criteria I. Performance, B.2.g (3) as follows:

(3) Building Envelope Minimum OITC Ratings: The minimum OITC rating for exterior wall and roof-ceiling assemblies enclosing core learning spaces shall be as follows:

(a) Walls with windows: Minimum composite OITC rating of ~~35~~ **30**.

(b) Roofs and walls without windows: Minimum composite OITC rating of ~~41~~ **36**.

b. MODIFY: Modify Section PS1030.00 Project Criteria I. Performance, B.2.i (2) as follows:

(2) In the event that the Noise Study concludes that such sound levels exceed ~~60~~ **55** dBA at any such locations, the acoustical engineer shall recommend acoustical enhancements to the building envelope which are necessary in order to meet the OITC ratings of ANSI S12.60 Table 3.

c. MODIFY: In Section B2010.00, Exterior Walls, modify Paragraph I.D.1.a. as follows:

a. Provide engineer's certification of masonry design, including all masonry elements identified in IBC ~~*Table 1704.5.1*~~ **Section 1705.4** and others required by code or project conditions.

d. ADD: Add Section B2050.00, Exterior Doors and Grilles, dated 12/04/15, attached herewith as Attachment 5.15.

e. MODIFY: In Section B2020.00, Exterior Windows, modify Paragraph II.A.1. as follows:

1. Provide minimum ~~*4-1/2"*~~ **4"** frame depth and architectural sill extension, subsill and subframe.

f. MODIFY: In Section B2080.00, Exterior Wall Appurtenances, modify Paragraph II.F.2.e. as follows:

e. Sign Message: ~~*[NAME OF SCHOOL]*~~ **Provide up to 50 characters as directed by the Authority.**

g. MODIFY: In Section C1020.00, Interior Windows, modify paragraph II.C.1.c. as follows:

c. ~~*Ceramic glass*~~ **Code-compliant glazing** at fire rated openings.

h. MODIFY: In Section C1030.00, Interior Doors, modify paragraph II.A.1. as follows:

1. The following products or manufacturers have been approved by the Authority for proprietary specification and use in this Project:

~~*a. Continuous hinges: Roton.*~~

~~*b. Exit devices, removable mullions and power transfer: Von Duprin.*~~

~~*c. Electric strikes: HES.*~~

~~*d. Closers and actuators: LCN.*~~

~~e.~~ **a.** Lock cylinders and position switches: Schlage.

~~*f. Thresholds: Pemko.*~~

i. **MODIFY:** In Section C1090.20, Information Specialties, modify Paragraph II.B.1. as follows:

1. Provide recessed, factory-fabricated units in widths and quantities indicated, ~~*72"*~~ **60"** high ~~*x 24" deep*~~ **with depths and lengths as scheduled, mounted 18" above finish floor**, and as follows:

j. **ADD:** In Section C1090.20, Information Specialties, add Paragraph II.B.1.f. as follows:

f. Schedule of Recessed Display Cases

Location	*Floor*	*QTY*	*Size*
School Store	**1**	**1**	**2'-4" D x 14'-0" L**
HRTB Entrance	**1**	**1**	**2'-4" D x 14'-8" L**
STEM Entrance	**1**	**1**	**1'-8" D x 15'-4" L**
VPA Entrance	**1**	**1**	**1'-8" D x 17'-4" L**
PE Entrance Corridor	**1**	**11**	**1'-4" D x 8'-0" L**
COMM Entrance	**2**	**1**	**2'-8" D x 14'-0" L**
HSMA Entrance	**2**	**1**	**1'-8" D x 15'-0" L**
VPA Entrance	**2**	**1**	**2'-8" D x 20'-0" L**
Visual Arts Room	**2**	**1**	**2'-8" D x 20'-7" L**

k. **ADD:** In Section C1090.20, Information Specialties, add Paragraph II.B.2. as follows:

2. Provide four-sided floor-mounted, free-standing display cases matching recessed units, with solid base to 36" above finish floor and locking doors. Provide three units at Media Center entrance as indicated.

l. **ADD:** In Section C1090.60, Safety Specialties, add Paragraph II.B.1.a. as follows:

a. Provide recessed or semi-recessed units 15.25" wide x 15"high x 7.25" deep, protruding no more than 4" from wall surface.

m. **ADD:** In Section C1090.70, Storage Specialties, add Paragraph I.A.2.g. as follows:

g. Mechanical-assist mobile shelving.

n. **ADD:** In Section C1090.70, Storage Specialties, Paragraph I.A.2., add Paragraph II.F. as follows:

F. Mechanical-Assist Mobile Shelving

1. Provide mechanical-assist mobile shelving as indicated and as follows:

a. All-steel construction, with powder-coated finish on all exposed surfaces.

b. Fully machined steel rails embedded flush with finish floor, leveled and grouted, designed and manufactured for minimum load of 1,000 lb/lf.

c. Riveted carriages of minimum 12-gauge steel, with 1,000 lb/lf minimum capacity.

i. Provide minimum two rubber bumpers per carriage on each side of carriage.

d. Bearing-mounted steel wheels, minimum 5" diameter, 3,200-lb capacity per wheel, double-flanged and sloped and precision-ground to mate with tracks.

i. Provide guide wheels at each wheel location.

e. Geared transmission and chain drive systems to provide mechanical assistance and uniform movement along entire length of each carriage and with the following:

i. Gear ratio sufficient to move a load of 6000 pounds with a maximum of 1 pound of pressure.

ii. Triple-arm operating wheel with rotating hand knobs located on end panel.

ii. Positive drive to eliminate drifting and play in handle.

iii. Continuous steel shaft, capable of transmitting torque from drive system without distortion.

iv. Permanently shielded and lubricated bearings.

v. Locking pins on handles.

f. All-steel, four-post shelving units 12" deep with the following:

i. Frames and cross-members of minimum 16-gauge steel, slotted to receive shelving and accessories.

ii. Shelves of minimum 18-gauge steel, with ¾" four-bend construction, individually removable and adjustable on 1" centers, with maximum deflection of L/140 with evenly distributed load of 50 lb/lf.

iii. **Shelf end brackets, backstops and sliding wire book supports.**

iv. **Minimum 19-gauge steel base, canopy and end panels.**

g. **Provide fixed stationary units to match carriage units.**

2. **Provide all other components and accessories as needed to provide a complete, code-compliant mobile shelving system, installed in full compliance with manufacturer's standards and recommendations.**

3. **Provide a minimum total of 1,636 lf of high-density storage.**

4. **Basis of Design: Montel mechanical-assist system with Hybria shelving.**

o. **ADD:** In Section D2010.60, Plumbing Fixtures, add Paragraph II.A. as follows and renumber subsequent items accordingly:

1. The following products or manufacturers have been approved by the Authority for proprietary specification and use in this Project:

a. Flush valves: Sloan.

b. Faucets: Chicago Faucets.

p. **MODIFY:** In Section D2010.60, Plumbing Fixtures, modify Paragraph II.W. as follows:

W. Utility Water Supply Fixtures

1. Exterior wall hydrants: Flush mounted, loose key lockable, maximum of 100′ apart on building facade and one on each facade of building.

a. Box type non-freeze.

b. Integral vacuum breaker **and dual check valve**.

c. Flush face ~~*chrome plate finish,*~~ lockable cover. **Provide rough bronze finish when located on dark surrounding materials and stainless steel face when located on light surrounding materials.**

d. Concealed hose connection **with quarter-turn operation by "T" handle key**.

e. Vandal-resistant construction.

f. Valve rod assembly of length suitable for wall construction and sufficient to prevent freezing.

g. Basis of Design: Model No. 5515 by Jay R. Smith Manufacturing Company.

2. Interior hose bibbs: Flush mounted, loose key lockable, beneath counters or sinks at each multiple-fixture rest room and mechanical spaces.

   a. ~~*Non-freeze*~~ **Box type**.

   b. Integral vacuum breaker **and dual check valve**.

   c. Chrome plated ~~*backer*~~ **face** plate.

   d. Vandal-resistant ~~*cap*~~ **lockable cover**.

   e. Concealed hose connection with quarter-turn operation by "T" handle key.

   f. Basis of Design: Model No. 5518 by Jay R. Smith Manufacturing Company.

q. ADD: In Section D6000.00, Communication, modify Paragraph II.A.1. as follows:

1. The following products or manufacturers have been approved by the Authority for proprietary specification and use in this Project:

   ~~*a. Proximity readers: HID Global.*~~

   ~~*b.*~~ **a.** Security system: Lenel.

   ~~*c.*~~ **b.** Clock system: Sapling.

   ~~*d.*~~ **c.** Public address system: Rauland.

   ~~*e.*~~ **d.** Intrusion alarm system: Bosch.

r. ADD: In Section E1040.10, Educational and Scientific Equipment, add Paragraph I.A.2.k. as follows:

k. Cosmetology equipment.

s. ADD: In Section E1040.10, Educational and Scientific Equipment, add Paragraph II.K. as follows:

K. Cosmetology Equipment

1. Shampoo station: Provide backwash units with the following:

a. Tilting porcelain bowl.

b. Single-handle operation with universal spray hose.

c. Strainer.

d. Upholstered seat and back.

e. Sliding seat adjustment.

f. Chrome-plated steel arms.

g. Basis of Design: Pibbs 5237.

2. Dryer station: Provide dryer chair and dryer units with the following:

   a. Upholstered seat and back.

   b. Chrome-plated steel arms.

   c. Extra-large, fully adjustable dryer hood with 950-watt dryer, timer and temperature control.

   d. Basis of Design: Pibbs 3769 with CD320 dryer.

3. Pedicure station: Provide vented pedicure chairs with the following:

   a. Upholstered seat and back.

   b. 5-gallon basin with dual whirlpool.

   c. Factory-installed dual electrical receptacle and plumbing.

   d. Code-compliant internal ventilation ductwork and connection to room exhaust system.

   e. Motorized chair adjustment and recline.

   f. Adjustable arm and foot rests.

   g. Matching technician stool.

   h. Basis of Design: Katai V Spa Pedicure Chair.

4. Manicure tables: Provide vented manicure tables with the following:

   a. Marble top.

   b. Factory-installed dual electrical receptacle.

   c. Code-compliant internal ventilation ductwork and connection to room exhaust system.

   d. Basis of Design: IMC Vented Nail Table.

5. Nail drying tables: Provide nail drying tables with the following:

   a. Built-in magazine holders.

   b. Dual compact fluorescent UV light bulbs for hands.

   c. Dual compact fluorescent UV light bulbs for feet.

   d. Dual fans.

   e. Basis of Design: Alego FTD11-2 by Deco Salon Furniture, Inc.

6. Styling stations: Provide wall-mounted styling stations with the following:

   a. Side-mounted drawer with top-loading appliance holders.

b. Three display shelves.

c. Work shelf with two drawers and base cabinet.

d. Quad receptacle.

e. Mirror, minimum 32″w x 40″w.

(1) Provide two LED mirror lights at each mirror. Basis of Design: Twiggy T1 Tubular with 1″ lens and dimmer; overall length to match mirror height.

f. Basis of Design: Icarus Irvine Single Styling Station with SS-62 extended to 39″ long for 54″ overall station length.

7. Facial tables: Provide upholstered facial tables with the following:

a. Independent back and knee adjustments.

b. Removable face cradle.

c. Adjustable height.

d. 350-lb capacity.

e. Basis of Design: Elegance Spa Massage/Facial Table.

8. Provide the following for all equipment:

a. Casework construction consistent with the requirements of Section C1090.70, Storage Specialties.

b. Code-compliant installation with respect to ventilation, vacuum breakers, ground-fault receptacles and similar features.

c. Coordinated finishes, upholstery and accessories.

t. **ADD:** In Section E1070.00, Entertainment and Recreational Equipment, add Paragraph II.B.7. and 8. as follows:

7. Other Curtains

a. Provide manually operated curtains complying with the requirements of this section in the following locations:

(1) To cover all walls equipped with mirrors and barre in the Dance Studio.

(2) To cover walls of the VPA Learning Resource Center as indicated.

b. Terminate tracks to prevent curtains from covering exit doors.

8. Pipe Grid System

a. Provide a pipe grid system with maximum 4′-0″ x 4′-0″ bays to cover main ceiling surface of VPA Learning Resource Center.

b. **Design and install the pipe grid to comply with the following:**

(1) **Live load capacity: 30 PSF.**

(2) **Pipe: 1-1/2" schedule 40 black iron.**

(3) **Internal sleeves for splices.**

(4) **Galvanized intersection plates, fasteners and supporting hangers.**

c. **Provide engineered design of pipe grid and attachment to building structure in compliance with all codes and industry standards.**

u. **ADD:** In Section E1070.00, Entertainment and Recreational Equipment, add Paragraph II.C. as follows and renumber subsequent items accordingly:

C. Theatrical Lighting and Controls

1. Provide complete, DMX-based LED theatrical lighting systems in the Auditorium and the VPA Learning Resource Center (LRC), each including, without limitation, the following:

a. Dimmer racks and modules.

b. Control console.

c. Electrical distribution system, connector strips and plugging boxes.

d. Theatrical lighting fixtures.

e. Architectural lighting fixtures.

f. Work lighting fixtures.

2. Provide high-density dimmer rack systems with the following:

a. Insulated gate bipolar transistor (IGBT) technology.

b. DMX512 lighting protocol.

c. Locking door.

d. Fan and user-cleanable air filter.

e. Basis of Design: Strand C21 dimming system.

3. Provide solid-state, DMX-based control consoles with the following:

a. Two DMX ports with 1,024 outputs.

b. 96 sliders and 32 submasters.

c. High-resolution touch-screen display, keyboard and mouse.

d. Network support for multiple Ethernet data protocols.

e. Hard disk cue storage and USB key library storage.

f. Integrated control of theatrical, architectural and work lighting fixtures.

g. Two gooseneck work lamps.

h. Basis of Design: Strand Preset Palette II.

4. Provide wall-mounted touchscreen entry stations at each room entrance with the following:

a. Secure connectivity to main console.

b. Configurable control of lighting systems.

c. Occupancy sensors.

d. Basis of Design: Strand Vision.net.

5. Provide a complete electrical distribution system with connector strips and plugging boxes and the following:

a. 20-amp grounded stage pin connectors, flush mounted or on 18" pigtails as appropriate for each device.

b. Permanent, identification numbers for all receptacles and circuits.

c. Grounding lugs and separate neutral conductors for all devices.

d. Motorized pipe batten suspension system.

e. Basis of Design: Strand S21 system.

6. Provide LED theatrical lighting fixtures with the following:

a. Pipe clamps

b. Safety cables.

c. 20-amp stage pin plugs.

d. RGBW engines supporting infinite color choice and color temperatures from 2300K to 9970K in white

e. A full range of optical systems, beam throws, pattern projection, barn doors, lens trays, etc.

f. Basis of Design: Strand PL Series Mark II LED fixtures.

7. Provide all components and accessories necessary for satisfactory functioning, including, without limitation, the following:

a. Motorized pipe battens.

i. Comply with the requirements herein for motorized rigging.

b. Cables and plugs.

c. Pantograph cable management.

d. Spare parts kits.

e. Vibration dampening equipment.

f. Silent fans.

8. Schedule of Theatrical Lighting and Controls

Item	*Quantities-Auditorium*	*Quantities-VPA LRC*	*Notes*
Dimmer Rack	3	2	48 modules each
Dimmer Modules	110	96	34 blank modules
Control Module	4	3	1 spare each
Control Console	2	1	
Entry Station	6	2	
Front Batten Connector Strips	6	--	Each 15′ long
On-Stage Connector Strips	6	--	Each 52′ long
Plugging Boxes	8	--	Each with four receptacles on 18″ pigtails
Plugging Boxes	--	56	Pipe-mounted, each with three flush-mounted receptacles
General-Purpose Luminaire	60	60	
Fresnel Luminaire	24	24	
Variable Beam Luminaire	24	24	
Cyclorama Luminaire	12	--	

D. CHANGES TO THE DRAWINGS:

1. **MODIFY:** MODIFY Sheet SK-06 SUPPLEMENTAL CODE REQUIREMENTS PLAN Revision #1 dated December 4, 2015 issued herewith as Attachment 5.16. All other plans, sections and elevations are modified accordingly by implication.

2. **MODIFY:** MODIFY Sheet SK-07 DETAIL E1/A-302 PARTIAL BUILDING SECTION F-F: THRU AUDITORIUM Revision #3 dated December 4, 2015 issued

herewith as Attachment 5.17. All other plans, sections and elevations are modified accordingly by implication.

E. BIDDER'S QUESTIONS, REQUESTS FOR INFORMATION AND RESPONSES:

1. Question: As noted in the Table of Contents many performance specifications are missing; please provide as soon as possible.

   Answer: See Addendum #1, dated October 30, 2015, Attachments 1.1, 1.2, 1.3, 1.4 and 1.5 for missing Performance Specification Sections.

2. Question: Referencing the acoustical design requirements for the mechanical systems within the project, please provide the normal hours of operations for which the acoustical deign will be required as outlined in ANSI S-12.

   Answer: Normal building operational hours will be from approximately 7:00 AM until 10:00 PM, however, there may be periodic events, such as sporting events or dramatic performances, which could run later.

3. Question: Verification as to whether the stormwater detention, water quality and/or recharge are required for the proposed development. The Utility Report Stormwater section 1.5 - Storm Drainage System text currently conflicts with the Stormwater Confirmation Letter to Trenton Public Works (Appendix G).

   Answer: NJSDA confirmed with both the City of Trenton Water & Sewer Department and NJDEP that storm water detention is not required; however, water quality standards per the City of Trenton Municipal Code Section 309-25:30 do apply to this project. The Stormwater Confirmation Letter to Trenton Public Works identified in Appendix G of the Maser Utility Report supersedes Section 1.5 ("Storm Drainage System") of the Maser Utility Report. The Design-Builder is still responsible for reconfirming all storm water system requirements.

4. Question: Referencing the Project Section PS 1030.00 Project Criteria, 1. Performance- B. Amenity and Comfort, 2.b Acoustic Performance must meet ANSI S12.60 (2010); The required acoustical requirements found in ANSI S12.60 Section 5.4 Noise Isolation design requirements indicate that the Outdoor to Indoor Attenuation of Airborne Sound (OITC) found in Table 3 for the minimum OITC for core learning spaces, indicates a OITC rating of 41 for core learning spaces.

   Based upon review of the requirements in the ANSI S12.60 standard, we interpret that both gymnasiums and the cafeteria are not required to meet the OITC rating of 41 criteria. Please confirm. Similarly, we believe that the natatorium also is not required to meet the OITC rating of 41 criteria. Please confirm.

   In summary, the ANSI S 12.60 standard appears to indicate that the OITC rating of 41 for the roof construction, which likely requires 4+ inches of concrete, is required for the auditorium, media center, and other core learning spaces. However, the cost

to benefit ratio toward achieving this OITC rating must be further explored and interpreted by the Authority. This RFI request the
Authority's review of the project spaces and identify the specific OITC rating for the auditorium, media center, and other core learning spaces so as to allow for a cost competitive proposal while and meeting the project budget guidelines. Clarification as to which areas specifically will require the OITC 41 roof structure is requested.

Answer: See Changes to the Performance Specifications Items C.1.a and C.1.b listed above, for reduction in minimum building envelope OITC ratings. The Main and Auxiliary Gymnasia, Natatorium, and Cafeteria are not considered to be core learning spaces, however, the Auditorium and Media Center are considered to be core learning spaces.

5. Question: The Dance Studio, Cardio Fitness and Weight Room are located across the corridor from classrooms, and above the locker rooms. Clarification is requested by the Authority for any special construction beyond the requirements of ANSI S 12.60 to limit structural vibration transmission from these spaces, such as, floating floors, etc.

Answer: No special construction beyond that necessary to meet the requirements of ANSI S12.60 is anticipated in these areas. Additionally, the finish floor systems in these areas should be considered in determining compliance with ANSI S12.60.

6. Question: The mechanical systems (AHUs, MUAs, ductwork, fans, etc.) servicing the Culinary Room cannot use standard acoustical silencers or duct lining due to grease build-up concerns, undefined end-user maintenance programs, and safety risks if the systems are not properly maintained. Confirmation is requested that the sound levels in this space need not meet the NJSDA design goal of 35 to 40 dB(A) for background sound levels. This RFI requests the Authority's design goals for this space considering the limitations provided by the kitchen ventilation fans and standard industry practice.

Answer: For purposes of interior acoustic performance – background noise level requirements, the Culinary Arts Lab (Cooking) shall not be considered a core learning space.

7. Question: Per the RFP 3.5.1 Note #4 , #5 and #7 Identification of the Design Builder's Safety Coordinator and Inspector, Quality Assurance/Quality Control Coordinator and CPM Scheduler, EBS requests that the naming of these individuals in the technical proposal be deferred until after the award of the Design Build Contract.

Answer: The identification of the Safety Coordinator and Inspector, Quality Assurance/Quality Control Coordinator, and CPM Scheduler has been deferred until after award. See "Changes to the Procurement Process" and "Changes to the Project Manual" identified in Addendum #2, dated November 2, 2015, for further information.

8. Question: Per the RFP 1.3 EBS requests that the requirement to identify the CPM Scheduling firm (P030) be removed.

   Answer: See response to Bidders' Question #7 listed above.

9. Question: Due to the magnitude of information required by the Design Build team to assemble and then disseminate the information to all material venders/subcontractors and provide a responsive and cost competitive proposal for the referenced project, an extension of time for the Bid due date is requested. Consideration should also be given to the upcoming Holiday seasons and time of the year where many companies have traditional planned time-off for which the D/B has no control.

   Answer: See Changes to the Procurement Process, Item A.1 listed above.

10. Question: Confirm that the new soccer field within the project limit line does not require any electrical devices or power feeds, sanitary and/or domestic water as none are shown or described in the documents.

    Answer: Confirmed.

11. Question: Referencing building elevations on A201, the legend mark M-2 'Horizontal and Sloped Aluminum architectural building cornice elements', are provided without detail. Confirmation is requested that D/B use a recessed cornice with the face of brick proud of the face of cornice exposing the brick ledge.

    Answer: The elevations of the building indicate aluminum cornice elements. The type and manufacturer for the "Basis of Design for this product is specified in Project Manual Volume 2. It is the responsibility of the Design Builder to provide the technical details, means, and methods of the construction.

12. Question: In the event the existing trees to remain do not survive the ongoing site demolition, provide a method of resolution for the replacement costs.

    Answer: If the existing trees identified to remain do not survive during the site demolition project, the Design-Builder will identify them as part of the Design-Builders' Assumption of responsibilities for Verifications of Existing Conditions per Section 3.11 of the Design-Build Agreement.

13. Question: Referencing the Reserve Allowance f. interpretative signage design, confirmation is requested that the allowance will be allocated for any and all structural reinforcement needed for the building structure to accept the various pediments and other items that will be installed by others.

    Answer: Confirmed.

14. Question: Referencing reserve allowance b. Fire Pump Allowance, confirmation that the fire suppression system base design is in accordance with hydraulic calculations sufficient with existing supply water pressures.

Answer: Confirmed.

15. Question: General Note 3 on AlOIA states salvaged Travertine to wrap auditorium walls see A301/A302. Installation details are required, including weight of the material, and acceptable installation standards of the salvaged material.

Answer: No installation details will be provided. Refer to Addendum #4 Section c.1.a. Add PERFORMANCE SPECIFICATION Section 3050.50 Reuse of Salvage Items included in Addendum #4 as attachment 4.2 for additional information.

16. Question: Referencing Section PS 1030.00 l.B.i Outdoor Noise Study paragraph b ... "such enhancements shall be compensated through Allowance for Building Acoustical Enhancements in accordance with Section 9. 2 of the Agreement and Procedural Specifications Section 01020." The referenced section cannot be found, please provide.

Answer: Performance Specifications Section PS 1030.00, the Agreement, and Procedural Specifications Section 01020 were included in the initial issuance of bid documents for this project. Also refer to Procedural Specifications Section 01010 – Summary of the Work as modified in Addendum #4 in regard to this item.

17. Question: Referencing Section PS 1030.00 and the ANSI S-12.60 standard, clarification is requested as to classification of the core learning requirements for the Automotive Technology area (Room A-116). The criteria for the STC and OITC ratings are not identified in ANSI S-12.60 standard for this space. In response, include the STC rating for the overhead garage doors and ancillary spaces.

Answer: Electrical Technology Lab A-114, Building Technology Lab A-115, and Automotive Technology Lab A-116 are not considered core learning spaces as defined in ANSI-S-12.60. However, the Automotive Technology Lab Classroom (A-116E) is considered a core learning space.

18. Question: The Design-Build RFP, page 10, refers to a requirement for subconsultants to be NJSDA prequalified in DPMC Disciplines P029-Construction Management, P038-Asbestos Safety Control Monitoring and P066-P103-Materials Testing Laboratories. Is this correct?

Answer: NJSDA acknowledges that pages 8 and 9 of the RFP refer to a prequalification requirement for subconsultants with subcontract values of $500,000.00 or more, including subconsultants in the disciplines specifically referenced in the above question. Absent some other, explicit requirement in the RFP or other contract documents mandating the engagement of subconsultants in specific named disciplines, the Page 8 and 9 requirement for subconsultant prequalification for

subcontract values of $500,000.00 or more, by itself, does not imply or indicate that engagement of subconsultants in the disciplines listed on pages 8 and 9 is required for this contract. However, if the Design-Builder determines to engage subconsultants in the disciplines named, and the subcontracts for such subconsultants meet or exceed the $500,000.00 threshold, then such engaged subconsultants must be NJSDA prequalified.

19. Question: The Design-Build RFP, Article 4.1.4 regarding Requests for Information and Article 4.1.8 regarding Proposed Equals, both refer to a delivery deadline of no later than fifteen (15) business days prior to the technical and price proposal submission date. Please furnish the exact date for this deadline.

Answer: The Design-Builder shall calculate the deadline date based upon the date of submission of Technical and Price Proposal.

20. Question: This item deliberately omitted.

Answer: This item deliberately omitted.

21. Question: Drawing A-301, Building Section D, shows a note reading "Refer to Detail B1 this sheet for guardrail and handrail information," but no such detail appears to exist.

Answer: This note is correct Drawing A-301, Building Section D-D, does show the proposed handrail in greater detail in elevation than other locations in other Building Sections. The note reading "Refer to Detail B1 on this sheet for guardrail and handrail information refers to the number in the circle to the left of the Title Building Section D-D". Also refer to Project Manual Volume 2 Section C1090.10 for additional information

22. Question: Is the sanitary line required to have a house trap?

Answer: No house trap is required unless mandated by code.

23. Question: Does the gas meter need to be enclosed?

Answer: Yes, per DCA Best Practices for Schools under Construction states..."such areas shall have the capability of being locked and alarmed; shall be protected from tampering by enclosing them with walls or fences. Access to such areas shall be by lockable doors;...".

24. Question: Does the domestic hot water require an ASME rated expansion tank?

Answer: Pressure vessels and related safety devices must be rated and/or certified as required by code.

25. Question: Please confirm hinge guards are required at the classroom doors only.

Answer: Hinge guards are only required in the Day-Care Area.

26. Question: Please confirm the school district will be integrating their IT before the school is turned over.

Answer: Yes, the District will coordinate integration of IT components prior to the Design-Builders' substantial completion date.

27. Question: Are Record site drawings/as-builts based on a signed/sealed survey after construction is 100% complete required to be provided?

Answer: Yes, signed as-built documents and sealed record drawings are required to be submitted.

28. Question: Should structural design include provisions for future installation of additional solar panels on the roof (by the Owner after the building is turned over)?

Answer: Yes. The design shall support possible future installation of solar roof panels.

29. Question: Will CAD drawings be provided for the Schematic Design to the Design/Build Team?

Answer: Yes, CAD files of Schematic Design Drawings will be made available to the successful Design-Build Team after receipt of the executed NJSDA Release of Electronic Documents letter.

30. Question: Design/Build agreement Paragraph 6.11.2 Security states "one (I) security guard to be present at the project site at all times when the Design/Builder is not on site". Please confirm full time off work hours security is required.

Answer: Confirmed. A security guard must be present at the jobsite during all off-work hours.

31. Question: We ask that consideration be given to extending the deadline for questions beyond Friday, November 6, 2015 for the above project in order to afford us sufficient time to distribute and review the considerable amount of new specifications and revised drawings that were issued by Addendum No. 1.

Answer: See response to Bidders' Question #9 listed above.

32. Question: Specification Section B2020.00, paragraph ID.2, refers to a requirement for operable openings "where operable unis are indicated" but the window details indicated by Drawing A-602 show no reference to operable openings. Please confirm whether the requirement for operable window openings applies to the project.

Answer: Refer to Drawings A-602-Revision 2, dated 11/24/15, which shows operable windows included in Addendum #4.

33. Question: Specification Section B2020.00, paragraph ID.4, indicates that window guards and security screens are not required which agrees with the window details shown by Drawing A-602 indicating no requirement for same, whereas Specification Section B2080.00-Exterior Wall Appurtenances, paragraph IA.1.e, refers to a requirement for window guards. Which is correct?

Answer: As per specification section B2020.00 there will be no window guards or security screens required. The section B2080.00 will be revised in a subsequent addendum.

34. Question: This item deliberately omitted.

Answer: This item deliberately omitted.

35. Question: Referencing specification section D6000.00 C.6.b. (2) at the "location of the digital projectors provide two wall-mounted input panels with inputs from all supported formats ... " clarification is requested as to the required input/outputs as most equipment manufacturers and current industry standards/technology primarily utilize HDMI and USB formats. Advise if the remaining media input/output format types may be deleted to remain current with present and future technologies.

Answer: Projection screens are required in the following locations: Dance Studio: Projection Screen on (plan) East wall; Auxiliary Gym: Projection Screen on the (plan) South wall (coordinate with divider screen); Gymnasium: Projection Screen on (plan) East wall; Auditorium: Projection Screen in front of curtain and Cafeteria Projection Screen on (plan) South wall.

36. Question: Please confirm horn/strobes are required in the stair towers.

Answer: Provide horn/strobes per all applicable Code requirements.

37. Question: Can landscape areas around the school be increased or additional LEED points?

Answer: The NJSDA has identified certain LEED credits of which the District is or is not supportive of in Performance Section PS 1030.00 I.A.5,b. however, the successful Design-Builder may propose additional credits for review by the District and the SDA during the design process. The Design-Builder's price proposal shall include the cost of any design features proposed in order to meet the proposed level of LEED certification.

38. Question: Can fire alarm cabling be plenum rated, in lieu of being installed in EMT as long as it is in compliance with all applicable codes?

Answer: Provide cabling and protection as specified in Section D7050.00, Paragraph III.C. Paragraph III.B. does not apply.

39. Question: Volume 2, Section D20 I 0.20 I.B.l. requires a separate independent water heater system for each building sector. The current plans shows Sectors A, B, and C&D. Is C&D considered one sector in respects to the water heating requirement?

Answer: Sectors C and D are to be considered separate building sectors.

40. Question: Volume 2, Section D20 I 0.20 I.B . l.a. states to provide two water heaters, each at 100% of sectors requirement. Section D20 I 0.20 II. D.6 references a backup water heater for redundancy. So are (2) water heaters required at I 00% of the sectors requirement AND an additional (2) backup water heaters or is the redundant water heater included in the count of (2) per section D20 10.20 1.B. 1.a.

Answer: Two water heaters at 100% are required for each sector's system. Two additional water heaters are NOT required.

41. Question: Volume 2, Section 02010.20 II. R.1. references to provide dual Booster Pumps for redundancy. Does this mean a separate packaged redundant system is required as a backup or is it defining a single duplex system with each pump sized to handle 100% of building load demand?

Answer: A separate redundant system is not required.

42. Question: Volume 3 page C-61 & C-63 (Art Studio) references clay traps and solid interceptors on all sinks which both serve the same purpose. Please advise which is required.

Answer: Provide a single device at each location.

43. Question: Volume 3 page C-4 (Science Lab) refers to an acid neutralization system and a solid interceptor under each sink. We are unaware of any manufacturer that makes an acid resistant solid interceptor which would be required. Can a point of use acid neutralization tank be used under each sink, which would act as a solid interceptor as well, in lieu of an acid waste piping system
and (I) 55 gallon tank?

Answer: Group sinks with acid neutralization systems to minimize maintenance requirements. At a minimum, group adjacent sinks in common countertops in a shared system. Where practical, provide systems serving entire labs or pairs of labs. Size each tank in accordance with ASPE Chapter 32 and all code requirements. Separate solids interceptors are not required.

44. Question: Volume 3 Page C-4 (Science Lab) references floor drains. Are they to be acid resistant models?

Answer: No.

45. Question: Section 82080.00 Exterior Wall Appurtenances Article I.A. I ,e lists Window Guards; please advise if required and locations to be provided.

Answer: See response to Bidders' Question 33 listed above.

46. Question: Please confirm display cases are provided by others.

Answer: All display cases and systems are by the Design Builder. Refer to the floor plans and Performance Specification Section C1090.00 Interior Specialties and Changes to Performance Specifications Item C.1.j and C.1.k (listed above).

47. Question: Fit Out lists notes large projector screens are required in the following rooms; Dance Studio (E-64), Auxiliary Gymnasium (E-62), Gymnasium (E-61), Auditorium (E-56) and Cafeteria (E-72) but these units are not shown on the furniture plans. Please confirm if required and locations.

Answer: See response to Bidders' Question #35 listed above.

48. Question: Please confirm that this facility will not be used as an emergency shelter.

Answer: Confirmed.

49. Question: Please confirm that the existing tennis courts and fencing is to remain and no work is to be performed in this area.

Answer: Confirmed.

50. Question: Referencing the geotechnical report, the proposed building height is generally 32 feet to the roof with only specific areas exceeding 40 feet in height. Confirmation is requested that the IBC 2009 requirement dictating the number of borings is not required.

Answer: Based upon the project schedule, the NJ IBC 2015 will be in effect. The quantity of boring locations shall follow the NJ IBC 2015 requirements.

51. Question: This item deliberately omitted.

Answer: This item deliberately omitted.

52. Question: Section PS1030.00, Project Criteria, Page 5 of 9, Paragraph i(2)(b) reads that "...such enhancements shall be compensated through the Allowance for Building Envelope Acoustical Enhancements in accordance with Section 9.2 of the Agreement and Procedural Specifications Section 01020." No such allowance is listed on Sections 01010 and 01020. Please advise.

Answer: See Changes to the Project Manual, Item B.3.f identified in Addendum #4, dated November 25, 2015.

53. Question: Section B3010.50, Low Slope Roofing, Page 1 of 3, Paragraph C makes reference to FM Global requirements. Will the new school building be insured by FM Global? Where FM Global requirements for roofing are being utilized, FM Global wind speed figures would in turn possibly require enhanced window design. Should

we assume that references to FM are limited only to the element referenced and full FM Global compliance for other elements is not required?

Answer: The roofing standard applies irrespective of the building insurance requirements. The Design-Builders' Team is responsible to determine applicable wind speed code requirements based upon their final design.

54. Question: Referencing the room area calculation worksheet 'Science Lab', confirmation of the design is requested that only the teacher's demo station will have electric, data, water, and natural gas connection.

Answer: See Revisions to Room Fit Out List Sheets E-4 and E-49, included with this Addendum.

55. Question: Referencing the educational specification for the Computer Science Lab, the desktop stations floor boxes are required to service multiple stations through a wire management in the furniture which is furnished and installed by the NJSDA.
a. Clarification as to the electrical/data requirements and location of the floor boxes is requested as the furniture specifications are not provided.
b. Confirm that the future furniture is U.L. listed and appropriate for the installation.
c. Provide a floor box layout coordinated with the furniture design/layout.
d. Identify that the line of demarcation for scope of work responsibility for the D/B is the installation of the floor box only with all interconnections provided by the Authority.
e. Identify in detail whether the floor box contains receptacles or other wire connection requirement specific to the electrical/data connection to the NJSDA furniture.
f. Confirm that this RFis response is applicable to all similar conditions throughout the project.
g. Also note the comment in Section D6000.00 II. B 1... for data connectivity, "Avoid floor mounted boxes where possible". How should this be addressed?

Answer: a. Refer to Section D6000.00.
b. Furniture will be appropriate for the installation.
c. Locate floor boxes in coordination with furniture layout.
d. Correct.
e. Refer to Section D6000.00.
f. Response is applicable to all similar conditions.
g. The room is designed per the educational needs. In this case, floor boxes are unavoidable.

56. Question: Volume 2, Section D2010.20 1.D.5 refers to an acid waste system. Specifically, S.c. requires code-compliant polyethylene waste piping. We are not aware of any lab waste manufacturer that makes polyethylene drainage systems. The common standard is for Polypropylene Piping (PP) and Polyvinlidene Fluoride (PVDF) for plenum or fire rated use. Please advise. In addition, can
Spears Labwaste CPVC be used in lieu of PP or PVDF?

Answer: PP or PVDF piping are acceptable.

57. Question: Volume 2, Section D2010.20 I.D.5 refers to an acid waste system. 5.b. refers to providing (I) 55-gallon acid waste tank. Is the tank to be located above ground or below ground in a pit and please confirm that (I) tank is designed to service all the labs in the school? In addition, is a sampling tank, remote reader and panel required to monitor the outlet waste?

Answer: See response to Bidders' Question #43 listed above.

58. Question: Performance Specification Section B2050.00-Exterior Doors and Grilles appears to be missing from the Project Manual.

Answer: Performance Specification Section B2050.00 is included with this Addendum.

59. Question: Please furnish specifications for the high density storage system referenced as a requirement for High Density Storage Room A-136F.

Answer: See Changes to Performance Specifications, Item C.1.n listed above.

60. Question: Section D2010.20, Domestic Water Equipment:
a. If there is adequate pressure from the municipal water supply, are booster pumps required?
b. Is it permissible to utilize one set of domestic water heaters for the entire building instead of separate for each sector? This will reduce future maintenance cost. As specified, there will five groups of water heaters instead of one set.
c. If domestic water is provided by a municipal system and the pH is approximately 7.0, is a water conditioning system required?
d. Is seismic restraint required for all systems even where not required by the NJ UCC and sub codes?
e. In reference to a radiant floor heating system in the daycare area, is it the intent to utilize the domestic water or separate piping connected to the boiler system?
f. Will lead filtration device be required if lead levels are below acceptable level? No piping or trim will use lead in the solder or parts. Can floor drains be eliminated at water cooler locations, classrooms (except art and science rooms), nurse's office, etc.? Can in-line pumps secured to wall structure be utilized instead of floor mounted for smaller sectors? Can polypropylene piping be used for water heater direct venting?

Answer: a. No.
b. No.
c. Yes, the 7.0 pH Standard must be met.
d. No. Adhere to all code requirements.
e. As stated in Performance Specification Section D3020.00, Heating Systems, I.D.3, provide a single combination domestic water system and in floor radiant heating system. Provide all necessary components to isolate each piping service to prevent water contamination.

f. No, yes, yes if under 15 hp pumps and no.

61. Question: Section D2010.60, Plumbing Fixtures:
a. For fixtures indicated for children, what agency will be designated as "Authorities Having Jurisdiction." Manufacturer's warranties are usually for one year on commercial fixtures. Is the 20 year statement correct?
b. Can wall hung water closets with closet supports be utilized instead of floor mounted water closets? Manual flush valves are indicated for each use. A 24-hour automatic flush will only be possible with electronic or battery powered flush valves.
c. Why will water tempering be required for water cooler?

Answer: a. It is the Design-Builders' responsibility to ascertain the requirements for all agency approvals. Additionally, provide bowl height 10" above finish floor for children fixtures. Provide warranties consistent with industry standards and equipment types.
b. Provide wall-hung water closets. Delete requirement for automatic flush throughout.
d. Water tempering is not required for water coolers.

62. Question: Section D3010.00, Facility Fuel Systems: Can 2 psi gas distribution pressure be used? IFGG allows 5 psi pressure inside buildings. This will reduce the size of the gas piping throughout the building. Furthermore, if the generator is fueled with natural gas it require higher pressure.

Answer: No, diesel fuel cannot be utilized. The specification calls for the emergency generator that to be fueled by natural gas. Also refer to the letter issued in this Addendum from PSEG dated September 30, 2015 regarding the reliability of their gas service to the project.

63. Question: MSS Specification:
a. Is PVC pipe allowed for above and below ground sanitary piping and storm piping?
b. Are other materials allowed for the domestic water piping, such as CPVC, PEX or polyethylene?
c. Is it permissible to locate gas valves above accessible ceilings? This is allowed by code. The likelihood of a valve leaking is the same as pipe fittings. Putting them in boxes in the wall will add construction cost and create an "attractive nuisance" for the students even if locked. They certainly will not be installed above hard ceilings.

Answer: a. See NJSDA MS&S Manual Sections G3020.20 Sanitary Sewerage Piping; G3030 Storm Drainage Utilities and D2020.40 Sanitary Piping, F. Piping Applications for piping materials.
b. No.
c. No. However, valves above accessible ceilings are acceptable serving laboratories only, contingent upon emergency shut-off features also provided within that space.

64. Question: Section D3000.00, Heating, Ventilation, and Air Conditioning (HVAC):
a. For the DOAS units, is it permissible to utilize DX refrigeration in lieu of the chilled water coils? DX provides the ability to better control humidity with the use of a hot gas reheat coil.
b. If the FCU's cannot fit in the ceiling space, is it permissible to put them in the classroom ceiling area?
c. If adequate heat can be provided in perimeter areas, can the use of fan powered VAV boxes be eliminated and standard VAV boxes be utilized? Doing so will reduce energy consumption which helps with LEED points and reduces operating cost.
d. Are fan powered VAV boxes required to serve the Auditorium? Can constant volume, packaged rooftop unit be utilized instead? This is one large open space which is sensitive to noise. The fan powered VAV's will require additional maintenance and add noise to the space.
e. Is it permissible to supply makeup air for the kitchen by transferring from the HVAC unit serving the Cafeteria? This would eliminate one unit lowering the installed cost. Outside air has to be brought in through the cafeteria unit for ventilation. This excess air could then be transferred to the Kitchen to assist in making up air for the hood system. Heat could be provided by local cabinet heaters.
f. The criteria for the stairwells calls for a cabinet unit heater to be located at the exterior door and intermittent stair landings. Since heat rises, is it necessary to have heaters on the upper floors? Our experience is been that they are not needed. Adequate heat can be provided by the heater at the lowest level. Furthermore, it states "Provide cooling as required for adequate conditioning." It is not customary to air conditioning stair wells. Is there a specific requirement to air conditioning the stair wells? Instead, could ventilation be used by exhausting the top of the stair towers when heat builds up?
g. Is it necessary to air condition the corridors and storage rooms? If so, is it permissible to use air from an adjacent system to supply these spaces?
h. For the dedicated split systems serving areas, such as the Emergency Control Center, Elevator Machine Room, MDF Rooms, etc., there is a requirement for humidity control. Is this related to winter humidity that would require a steam generation humidifier or summer humidity control to maintain humidity levels? Note it would be very difficult to maintain the required humidity levels in the summer.
i. What system type is to be utilized for the Automotive Technology area? System type C is listed in section D3000.00.d.1.c.iii.5 and system type A is listed in section D3000.00.2.h.
j. Please confirm both gas fired air curtains and gas fired unit heaters are to be used for the Automotive Technology Area.
k. Can the DOAS units be utilized to exhaust the restroom spaces near the area served by system type A? This will eliminate the requirement for roof mounted exhaust fans and help reduce energy usage. This will aid in obtaining additional LEED points.
l. Is a dedicated split system required for the Electrical Emergency Room if there is excessive heat gain in this space?

m. Is DX cooling required for the Culinary Arts Labs make-up-air unit? Section D3000.00.A.9.c.2 calls for DX cooling for make-up-air units, however, there is no reference to DX cooling in section D3000.00.A.9.d.8.b.i.

Answer: a. No. Provide chilled water coils.
b. Secure approval by the NJSDA for specific instances where coordination drawings indicate that FCUs will not fit above corridor ceilings.
c. No.
d. Yes. Provide fan-powered VAV boxes as required by Section D3000.00 Paragraph I.A.9.d.(4).
e. No.
f. Heaters are required at intermittent stair landings. Provide cooling in stairs in accordance with industry standards where glazing and orientation indicate that overheating may occur.
g. Yes; yes.
h. Provide humidity control in accordance with Section D300.00 Paragraph I.A.9.d.(15)(b).
i. Provide System Type D for Room A-116; provide System Type A for its' occupiable supporting spaces.
j. Confirmed.
k. Yes.
l. Yes.
m. Yes.

65. Question: Section D3010.00, Facility Fuel Systems:
a. We noted that the specification calls for the emergency generator that to be fueled by natural gas. Instead can diesel fuel be utilized, assuming the generator is located on grade? Note AHJs sometimes state that natural gas is not reliable and therefore prefer diesel or back-up by propane.
b. Is the intent for the emergency gas shutoff valves to automatically shutoff gas when there is an alarm at the fire detection system? This requirement is not included in D7050.00.

Answer: a. No. Provide natural gas-fueled generator. See also the PSE&G utility letter dated 30 September 2015, attached in this Addendum.
b. No, unless required by code.

66. Question: Section D3020.00, Heating Systems:
a. It was noted that the chilled water distribution system is to have glycol. Is it also required in the heating piping?
b. Are split cased pumps required for the main hot water and chilled water systems? This type of pump is less efficient.

Answer: a. No.
b. No.

67. Question: Section D3030.00, Cooling Systems: Are electric heating coils required for split system air conditioning systems? Can hot water coils or heat pumps be used?

Answer: Hot water coils are acceptable, subject to limitations on piping locations in I.A.9.d.(15). Heat pumps are not acceptable.

68. Question: Section D3050.10, Facility Hydronic Distribution: It was noted to utilize schedule 40 steel pipe or type L copper. Is it permissible to utilize other piping materials, assuming that they are allowed by code?

Answer: No.

69. Question: Section D4010.10, Water-based Fire Suppression: References are made to providing a fire pump. If adequate pressure can be provided by the municipal system can the fire pump be eliminated?

Answer: Yes.

70. Question: Section D8010.50, Integrated Automatic Control of HVAC Systems: Since this is a new standalone building will the authority consider utilizing alternate control manufacturers other than those listed as proprietary? Under Part II, Products, Andover is listed as a proprietary supplier.

Answer: No.

71. Question: Section D5000.00, Electrical:
a. Item h on page 3: Define the extent of the "isolated grounding system as required to meet technology requirements."
b. Item C.1 on page 3: Is the service capacity statement "Provide 18 volt-amperes per square foot maximum for the building" correct? Or was it meant to read 18 volt-amperes minimum for the building"?

Answer: a. Provide isolated grounding circuits only for MDF and IDF rooms.
b. Provide a Maximum of 16VA per square foot.

72. Question: Section D5010.10, Facilities Power Generation:
a. Item I.A.d(2) on page 1: Clarify the statement "HVAC Equipment: Sufficient to keep the building and systems from freezeup maintain HVAC and electrical services to the following spaces during loss of power:" Is the intent to protect against freezup in just the spaces listed in a. through d., or is it meant to be the entire building?
b. Item F.1.b on page 3: Will the use of a natural gas engine emergency generator be approved by the AHJ without an on-site fuel supply? (re: NFPA 700.12(B)).

Answer: a. Provide freeze protection for spaces as listed in D5010.10 Paragraphs I.A.1.d.(2) and (3), and any other spaces as required by code.
b. See response to Bidders' Question #65 listed above.

73. Question: Section D5020.00, Electrical Service and Distribution:
a. Is it permissible to utilize aluminum conductors where allowed by NFPA 70?

b. Item 3 on page 6: Since the entire building is protected by sprinklers, is it the intent that every electrical panelboard, switchboard, motor control center, etc. in the building be furnished with a NEMA 3R enclosure? Note that NFPA 70 does not allow "leak protection apparatus" within 6 feet above such equipment.
c. Item C.2 on page 4 requires insulated case circuit breaker for the service equipment Main Device. MSS spec D5020.10.A.4 specifies a bolted pressure switch for the main service switch. Which device is correct?

Answer: a. No. Provide copper conductors as specified.
b. NEMA3R enclosures not required in building. Keep piping away from switchboard and motor control center.
c. Performance specifications take precedence. Provide insulated case circuit breaker for the service equipment as specified.

74. Question: Section D5040.30, Interior Lighting: Is the use of LED light sources for interior locations permitted in locations other than those listed?

Answer: No. Provide interior LED lighting only where specified.

75. Question: Section D7050.00, Detection and Alarm:
a. Is the Fire Alarm System intended to be a Voice/Alarm Communication System? If so, item 4.c on page 1 should be clarified to address intelligibility of audible alarms.
b. Clarify item 4.e on page 2 "Separate audible and visual signals for alarms and trouble notification in corridors."

Answer: Provide system in accordance with NFPA 72.

F. CHANGES TO PREVIOUS ADDENDA:

1. Not applicable.

G. ATTACHMENTS:

1. Attachment 5.1 Revised Room Area Calculations Sheet E-4 dated 09/22/15, with Revised Room Area Calculations Sheet E-4, dated 12/03/15.

2. Attachment 5.2 Revised Room Area Calculations Sheet E-5 dated 09/22/15, with Revised Room Area Calculations Sheet E-5, dated 12/03/15.

3. Attachment 5.3 Revised Room Area Calculations Sheet E-27 dated 09/22/15, with Revised Room Area Calculations Sheet E-27, dated 12/03/15.

4. Attachment 5.4 Revised Room Area Calculations Sheet E-30 dated 09/22/15, with Revised Room Area Calculations Sheet E-30, dated 12/03/15.

5. Attachment 5.5 Revised Room Area Calculations Sheet E-49 dated 09/22/15, with Revised Room Area Calculations Sheet E-49, dated 12/03/15.

6. Attachment 5.6 Revised Room Area Calculations Sheet E-53 dated 09/22/15, with Revised Room Area Calculations Sheet E-53, dated 12/03/15.

7. Attachment 5.7 Revised Room Area Calculations Sheet E-67 dated 09/22/15, with Revised Room Area Calculations Sheet E-67, dated 12/03/15.

8. Attachment 5.8 Revised Room Area Calculations Sheet E-72 dated 09/22/15, with Revised Room Area Calculations Sheet E-72, dated 12/03/15.

9. Attachment 5.9 Revised Room Area Calculations Sheet E-76 dated 09/22/15, with Revised Room Area Calculations Sheet E-76, dated 12/03/15.

10. Attachment 5.10 Revised Room Area Calculations Sheet E-78 dated 09/22/15, with Revised Room Area Calculations Sheet E-78, dated 12/03/15.

11. Attachment 5.11 Revised Room Area Calculations Sheet E-81 dated 09/22/15, with Revised Room Area Calculations Sheet E-81, dated 12/03/15.

12. Attachment 5.12 Revised Room Area Calculations Sheet E-85 dated 09/22/15, with Revised Room Area Calculations Sheet E-85, dated 12/03/15.

13. Attachment 5.13 Revised Room Area Calculations Sheet E-92 dated 09/22/15, with Revised Room Area Calculations Sheet E-92, dated 12/03/15.

14. Attachment 5.14 PSE&G Natural Gas Reliability letter dated September 30, 2015.

15. Attachment 5.15 Add Section B2050.00, Exterior Doors and Grilles, dated December 4, 2015.

16. Attachment 5.16 Modify Sheet SK-06 SUPPLEMENTAL CODE REQUIREMENTS PLAN Revision #1 dated December 4, 2015.

17. Attachment 5.17 Modify Sheet SK-07 DETAIL E1/A-302 PARTIAL BUILDING SECTION F-F: THRU AUDITORIUM Revision #3 dated December 4, 2015.

H. SUPPLEMENTAL INFORMATION

PSE&G Natural Gas Reliability letter dated September 30, 2015 is being included pursuant to "Maser Utility Investigation Report for Trenton Central High School Revised October 2, 2015, Appendix G".

Any bidder attempting to contact government officials (elected or appointed), including NJSDA Board members, NJSDA Staff, and Selection Committee members in an effort to influence the selection process may be immediately disqualified.

End of Addendum No. 5

NJSDA Date 12/4/15

STATE OF NEW JERSEY
SCHOOLS DEVELOPMENT AUTHORITY

32 E FRONT STREET
P.O. BOX 991
TRENTON, NJ 08625-0991
609-943-5955

Addendum #5

New Jersey Schools Development Authority
Office of Procurement
32 East Front Street
Trenton, NJ 08625
Phone: 609-858-2984
Fax: 609-656-4609

Date: **December 4, 2015**

PROJECT #: **WT-0022-B01**
New Trenton Central High School
Trenton Public Schools

DESCRIPTION: **Addendum #5**

Addendum No. 5

Acknowledgement of Receipt of Addendum

Contractor hereby acknowledge the receipt of the Addendum by signing in the space provided below and returning via scanned copy (MATaylor@njsda.gov) or fax (609-656-4609). Signed acknowledgement must be received prior to the Bid Due Date. Acknowledgement of the Addendum must be made in Section E.5 of the Price Proposal Submission.

_____ _____
Signature Print Name

_____ _____
Company Name Date