



Addendum #2

DRAFT

New Jersey Schools Development Authority
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Date: July 30, 2014
PROJECT #: EL-0042-B01
New Elementary School
Elizabeth Public Schools

DESCRIPTION: Addendum #2

This addendum shall be considered part of the Design-Build Information Package issued in connection with the referenced project. Should information 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

1. Modifications to Request for Proposals:

- a. REVISE: Section 3.6 of the RFP ("Approach to LEED Requirements") shall be revised as follows (additions in **bold and underlined** text; deletions in ~~strikethrough and italics~~):

3.6 Approach to LEED™ Requirements (15 Points)

Using the Design-Builder's Approach to LEED™ Requirements form provided by the Authority, the Design-Builder shall submit a detailed narrative describing the Design-Builder's approach to achieving the proposed level of LEED™ certification. The narrative shall confirm the level of LEED™ certification (basic, Silver, Gold, or Platinum) the Design-Builder proposes to be achieved, and ~~discuss the approach to achieving this level of certification (i.e., integration of LEED™ requirements in design, monitoring compliance through design and construction, process for submission to USGBC for certification, etc.)~~ **shall, at a minimum:**
1) identify any optional sustainable design features (per Performance



Specification Section PS1030.00) included in the proposal; 2) discuss any design features proposed for LEED certification purposes that will result in energy savings or other operational efficiencies; and 3) discuss any sustainable design features proposed for LEED certification purposes that impose any additional responsibilities, requirements or obligations on NJSDA or the District. The narrative shall be accompanied by a completed LEED™ checklist (form provided by the Authority) identifying the specific LEED™ features which the Design-Builder proposes to incorporate in the design and construction of the project.

NOTE: Design-Build Teams are encouraged to propose an approach to LEED certification that exceeds the minimum LEED certification requirements. Proposal evaluation and scoring will favorably consider efforts to achieve LEED certification at a higher level than required by contract; however, the evaluation of the LEED approach will involve the consideration of any increase in LEED certification level, balanced against any additional responsibilities or requirements which may be imposed on the NJSDA or the District as a result of the Design-Build Team’s approach to LEED certification at the increased level.

- b. **REPLACE:** Replace the Technical Proposal Form “APPROACH TO LEED REQUIREMENTS” with the revised Technical Proposal Form “APPROACH TO LEED REQUIREMENTS,” attached herewith as Attachment 2.1.

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 Modifications to the Design-Build Agreement

- a. **REVISE:** 1.49 of the Agreement (definition of “LEED”), shall be revised as follows (additions in **bold and underlined** text; deletions in *strikethrough and italics*):

1.49 “LEED™” means the program and rating system known as Leadership in Energy and Environmental Design, ~~for Schools, or later version of such program as adopted by the US Green Building Council (USGBC)~~ **“Green Building Rating System” developed by the US Green Building Council (USGBC). LEED 2009 for Schools New Construction and Major Renovations Rating System (“LEED for Schools”)** shall be the referenced standard for purposes of the required **LEED certification under this Agreement.**



- b. **REVISE:** Section 3.18 of the Agreement (“LEED Certification”), shall be revised as follows (additions in **bold and underlined text**; deletions in *strikethrough and italics*):

3.18 LEED™ Certification. The Design-Builder shall ~~design and construct the Project in accordance with the “green building principles” as identified and more fully provided for in the Design Manual, and shall incorporate the design tenets developed by the United States Green Building Council (“USGBC”) and set forth in the Leadership in Energy & Environmental Design (“LEED™”) “Green Building Rating System” (LEED™ for Schools Version) to maximize energy efficiency and environmental sustainability to the extent that the Project will achieve Certification under the LEED™ 2009 for Schools New Construction and Major Renovations Rating System (“LEED for Schools”).~~ The Design-Builder shall be responsible for designing the Project to achieve LEED™ Certification under **the LEED 2009 for Schools New Construction and Major Renovations Rating System (“LEED for Schools”)**, and for applying for and securing such LEED™ Certification. LEED™ is a registered trademark of the USGBC.

- c. **REVISE:** Sections 5.3 (“Testing”) and 5.3.1 of the Agreement shall be revised as follows (additions in **bold and underlined text**; deletions in *strikethrough and italics*):

5.3 **Testing. The Design-Builder shall bear the cost of material and equipment testing specifically required by Code, the Contract Documents, any manufacturer or supplier, and all other testing performed, except for testing in support of N.J. Uniform Construction Code Special Inspections, and such additional testing as may be requested by the Authority pursuant to Section 5.3.2 below.** Prior to the initiation of any testing required by applicable Legal Requirements, the Contract Documents or any manufacturer or supplier, the Authority will provide the Design-Builder with the names of approved testing laboratories, firms or services for use on the Project. The Design-Builder shall utilize only testing laboratories, firms or services approved or otherwise provided by the Authority. Failure to use such approved entities shall be grounds for rejection of the inspection or test as nonconforming.

5.3.1 The Design-Builder shall notify the CM in writing of all scheduled testing of materials or equipment. The notice shall be provided no later than seven (7) Days prior to the scheduled test. ~~The Design-Builder shall bear the cost of material and equipment testing specifically required by Code, the Contract Documents, any manufacturer or supplier, and all other testing performed, except for that testing requested by the Authority pursuant to Section 5.3.2 below.~~

- d. **REVISE:** Section A.3 of Appendix A to the Agreement (“Special Conditions”) shall be revised as follows to conform the dates for Substantial Completion and Final Completion to that shown in Specification Section 01010 (“Summary of Work”) (additions in **bold and underlined text**; deletions in *strikethrough and italics*):



- A.3 Substantial Completion shall be achieved within ~~890~~ 916 days from the Commencement Date. Final Completion shall be achieved within ~~1016~~ 1005 days from the Commencement Date.

2. Volume 1 Modifications to Division 1 General Requirements

- a. **REVISE:** In Section 01010, Summary of Work, revise Paragraph 1.3.B.2. as follows:

- 2. The new Elizabeth Elementary School is to be designed as a grade 2-8 magnet school to educate 880 students. The building will be a four-story structure containing approximately 140,000 ~~141,000~~ gross square feet on a site owned by the Project School District and located at the intersection of Pulaski Street and Clifton Avenue in the City of Elizabeth, New Jersey. Site work includes an environmental cap on existing historic fill, play areas and parking.

- b. **REVISE:** In Section 01500, Temporary Facilities and Controls, revise Paragraph 1.5.A. as follows:

- A. General: Provide each temporary service and facility ready for use at each location when the service or facility is first needed to avoid delay in performance of the Work. The Temporary Field Office for NJSDA per Subsection 3.2.G below must be installed and fully operational prior to the start of any construction (excluding soil erosion control measures) requiring inspection by: any authority having jurisdiction; third party engineer; third party testing agency or material testing laboratory. Maintain, expand as required and modify temporary services or facilities as needed throughout the progress of the Work. Do not remove until services or facilities are no longer needed, or are replaced by the authorized use of completed permanent facilities.

3. Volume 2 Performance Specifications

- a. **ADD:** In Section PS1030.00, Project Criteria, Paragraph I.A.5., add the following:

b. Sustainable Design Features

(1) The Design-Build Information Package includes the following REQUIRED sustainable design features, which shall be provided by the Design-Builder, subject to the conditions of the Request for Proposals and all other project requirements, and which may be considered by the Design-Builder in its selection of LEED credits:

(a) Tree/planter box trench.

(b) Rain garden.



(2) The Project School District has expressed a strong preference for inclusion of the following OPTIONAL sustainable design features. These features are also included in the Design-Build Information package and may be included AT THE OPTION OF THE DESIGN-BUILDER, subject to the conditions of the Request for Proposals and all other project requirements, and may be considered by the Design-Builder in its selection of LEED credits:

(a) Exterior sun control devices (Section B2080.00, Exterior Wall Appurtenances).

(b) Rainwater harvesting and reuse system (Section D2010.20, Domestic Water Equipment).

b. **MODIFY:** In Section B2050.30, Exterior Overhead Doors, modify Paragraph I.B.1.a. as follows:

a. Thermal Performance: R-value minimum ~~14.86~~ **10.9** and in accordance with codes and referenced standards.

c. **MODIFY:** In Section B2050.30, Exterior Overhead Doors, modify Paragraph II.A.1. as follows:

1. Basis of Design: ~~625 Stormtite AP 627~~ **Series Insulated Service Door by Overhead Door Corporation, with PowderGuard Weathered Finish.**

d. **ADD:** In Section B2080.00, Exterior Wall Appurtenances, Paragraph II.B., add the following:

3. At the option of the Design-Builder and subject to the conditions of PS1030.00, Project Criteria, Paragraph I.A.5.b., provide custom aluminum exterior sun control devices (sunscreens) as indicated and as follows:

a. Provide exterior sun control device assemblies capable of withstanding the effects of loads and stresses from dead loads, live loads, snow loads, snow drift loads, wind loads, and normal thermal movement without evidencing permanent deformation of assembly or components including blades, frames, and supports; noise or metal fatigue caused by blade rattle or flutter; or permanent damage to fasteners and anchors.

1. Submit a comprehensive analysis certified by a qualified engineer of design loads, including dead loads, live loads, snow loads, snow drift loads, wind loads and thermal movement. Design calculations shall identify the moment and shear forces transferred to the structure or supports through the installation connections



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- b. **Provide engineered design, certified by a qualified engineer, demonstrating year-round optimized solar performance for each sunscreen design for the project site and its specific glazing configuration and orientation.**
 - c. **Sun control assemblies shall be assembled entirely by mechanical fasteners or welding. Components shall be joined with a minimum of two fillet welds each one-inch (25.4 mm) long produced with the Pulsed Gas Metal Arc Welding (GMAW/MIG) process with minimum 0.125" (3.18 mm) throat.**
 - d. **Maintain equal sun control blade spacing, including separation between blades and frames to produce uniform appearance.**
 - e. **Join frame members to one another and to fixed sun control blades with mechanical joints concealed from view, unless size of sun control assembly makes concealed, bolted connections between frame members necessary.**
- e. **MODIFY:** In Section B2080.00, Exterior Wall Appurtenances, modify Paragraph II.E.2. as follows:
3. Provide dimensional letter signs using stainless steel letters.
 - a. Typeface: *As indicated* **Perpetua Titling MT Bold**.
 - b. Letter Height: *As indicated* **16" and 12"**.
 - c. Depth: Three inches.
 - d. Finish: ~~PPG Duranar XL three-coat system complying with AAMA 2605 unless otherwise indicated~~ **Clear anodic finish, AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.**
 - e. Sign Message: ~~{NAME OF SCHOOL}~~ **As indicated.**
- f. **MODIFY:** In Section C1010.50, Interior Operable Partitions, modify Paragraph I.A.1.a. as follows:
- a. Provide operable partitions at Stage proscenium, ~~Cafetorium and Small Group Instruction Room(s).~~
- g. **ADD:** In Section C2000.00, Finishes, Paragraph 2.C., add the following:
- 2. Window Stools**
 - a. **Provide solid polymer window stools at all windows as follows:**
 - (1) **Material: Cast, nonporous, filled polymer, not coated, laminated or of composite construction with through body colors meeting ANSI**



- Z124.3 or ANSI Z124.6, having minimum physical and performance properties specified.
- (2) Thickness: 3/4".
 - (3) Color: Selected from manufacturer's standard colors.
 - (4) Finish: Matte.
- b. Provide stools full width of window openings, tight to window subsill, with 1" projection from face of wall and bullnose edges.
 - c. Provide matching sealant at all edges and bottom of stool.
 - d. Basis of Design: Dupont Corian.
- h. **ADD:** In Section D2010.20, Domestic Water Equipment, Section I., add the following:
- F.** At the option of the Design-Builder and subject to the conditions of PS1030.00, Project Criteria, Paragraph I.A.5.b., provide a complete rainwater harvesting and reuse system for supply to toilets and urinals in multi-user restrooms (at a minimum), in full compliance with all applicable codes and standards.
 - 1. Provide an integral backup water supply with vacuum breaker from domestic water system to recharge the system when necessary.
 - 2. Provide emergency power supply to pumps in rainwater harvesting and reuse system.
- i. **MODIFY:** In Section D2010.20, Domestic Water Equipment, modify Paragraph I.E.5.c. as follows:
- c. Floor drains: Provide floor drains in all spaces with domestic water equipment and plumbing fixtures, and other spaces subject to frequent moisture or mopping, and where required by code.
 - (1) Provide trap primers for all floor drains.
- j. **MODIFY:** In Section D3000.00, Heating, Ventilation and Air Conditioning (HVAC), modify Paragraph I.A.8.d.(11)(a) as follows:
- (a) Design Requirements
 - (i) A dedicated packaged DX cooling gas fired heating air handling unit shall serve both the kitchen and dishwash areas for general HVAC space conditioning.
 - (ii) Provide ceiling-mounted air terminal units for the general kitchen and dishwash areas and associated office and restroom spaces space-heating-and-space-cooling loads.



- (iii) The kitchen air handling unit shall operate in three modes: Unoccupied, Occupied—Cooking, and Occupied—Non-Cooking.
- ~~(iv) For intermittent kitchen space conditioning, transfer air grilles drawing air from the cafeteria space to the kitchen and dishwash areas may be provided for periods when the kitchen RTU is not operating.~~
- (v) The kitchen hood shall have a dedicated gas-fired ~~DX cooling~~ makeup air handling unit supplying tempered air to the kitchen ~~space and/or~~ hood. Air supply shall be within 10 deg F of space temperature and as required by code.
- (vi) Note that the kitchen hood exhaust air, dishwasher exhaust and general kitchen exhaust air shall not be returned to the kitchen air handling unit.

k. **MODIFY:** In Section D3000.00, Heating, Ventilation and Air Conditioning (HVAC), modify Paragraph I.A.8.d.(11)(b)(iv) as follows:

- (iv) The hood exhaust fan is manually operated through a local switch mounted in the kitchen. Whenever the kitchen is performing cooking-related activities, the hood exhaust fan must be activated. **The hood make-up air handling unit shall be interlocked with the hood exhaust fan.** When the hood exhaust fan is activated, the electrically-interlocked gas valves are opened to allow cooking, ~~and the relief/exhaust damper of the kitchen make-up air unit is partially closed.~~ With the hood exhaust fan switch in the OFF position, the gas solenoids of the kitchen equipment burners shall be de-energized (via hard wired interlock between the solenoids and the hood exhaust fan) ~~and the relief/exhaust damper of the kitchen make-up air unit are returned to automatic control being sequenced with the outside air damper.~~

l. **DELETE:** In Section D3000.00, Heating, Ventilation and Air Conditioning (HVAC), Paragraph II.D.3., delete the following and leave all other items intact:

~~e. DX coil.~~

~~h. Integral exhaust fan (space permitting).~~

m. **ADD:** In Section D3000.00, Heating, Ventilation and Air Conditioning (HVAC), Paragraph II.G., add the following and renumber all subsequent items accordingly:

4. Hot water reheat coil.



n. **MODIFY:** In Section D3050.60, HVAC Design Parameters, modify Paragraph I.E. as follows:

E. Building Envelope Criteria

1. Heating

a. Heating load calculation shall comply with building envelope requirements of ASHRAE 90.1 and also include:

~~(1) Maximum transmission losses through exterior envelope:~~

~~(a) Exterior wall overall U-value 0.064 Btu/hr/sf/F.~~

~~(b) Slab on grade floor (unheated slabs) F-value 0.73 Btu/hr/lf/F; overall U-values 0.25 Btu/hr/sf/F.~~

~~(c) Roof/ceiling overall U-values 0.048 Btu/hr/sf/F.~~

~~(2)-(1) Ventilation outside air intake load plus building pressurization.~~

~~(3)-(2) Miscellaneous transmission losses through slabs on grade and foundations.~~

2. Cooling

a. Cooling load calculation shall comply with building envelope requirements of ASHRAE 90.1 and also include:

~~(1) Transmission and solar heat gain through exterior envelope:~~

~~(a) Exterior wall overall U-value 0.064 Btu/hr/sf/F.~~

~~(b) Slab on grade floor (unheated slabs) F-value 0.73 Btu/hr/lf/F; overall U-values 0.25 Btu/hr/sf/F.~~

~~(c) Roof/ceiling overall U-values 0.048 Btu/hr/sf/F.~~

~~(d) Solar heat gain coefficient 0.40.~~

~~(e) Building envelope criteria as prescribed by code and project requirements.~~

~~(2)-(1) Ventilation outside air intake load plus building pressurization.~~

~~(3)-(2) Sensible and latent heat gain per space based on program occupancy per net floor area of occupied space as determined above and by code.~~

~~(4)-(3) Interior heat gains from lighting, equipment, fixtures, computers, and other sources of heat generation.~~

~~(5)-(4) Infiltration losses with 15 mph wind. Include the effects of positive pressurization.~~



- o. **ADD:** In Section D3050.60, HVAC Design Parameters, Paragraph I.I.a., add the following and renumber subsequent items accordingly:
- (2) Science Labs and Science Prep Rooms: Negative to corridor and/or surrounding spaces.**
- p. **MODIFY:** In Section D3050.60, HVAC Design Parameters, modify Paragraph I.J.c. as follows:
- c. Classroom Exhaust *Hoods*
- (1) **Provide independent exhaust for chemical storage cabinets as required by code.**
- (2) **Provide independent exhaust and make-up air systems as required by code for Science Prep Rooms and other spaces storing chemicals to maintain negative space pressurization. Such spaces shall be ventilated at minimum rates of 10 ACH in occupied mode and 6 ACH in unoccupied mode.**
- ~~(1)~~ (3) Exhaust air quantities for classroom exhaust hoods shall be selected in conformance with manufacturer's recommendation and code requirements.
- ~~(2)~~ (4) Classroom lab hoods with integral solvent cabinets and stand-alone solvent cabinets must provide continuous constant volume exhaust operation.
- ~~(3)~~ (5) Classroom lab hoods, independent of other equipment requiring exhaust, shall have 2-speed operation to allow for night setback and/or unoccupied reduced exhaust rates. Exhaust fans shall have variable frequency drives (VFD) for balancing.
- ~~(4)~~ (6) Canopy hood with individual exhaust fan shall be provided for all classroom heat and odor producing equipment such as cooking equipment, kilns, etc.
- q. **MODIFY:** In Section D4010.10, Water-Based Fire Suppression, modify Paragraph I.A.11.a.(1) as follows:
- (1) ~~Provide 4" Storz connections with Knox StorzGuard locking caps.~~
Provide two fire department connections, one facing Pulaski Street and one facing Clifton Street, each with twin 2.5" New York Corp. fittings and Knox FDC security devices. Provide looped system piping so that whichever connection is used, the entire system will be supplied.



- r. **MODIFY:** In Section D5000.00, Electrical, modify Paragraph I.C.1. as follows:
1. Service capacity: Calculated in accordance with NFPA 70; ~~provide 12 volt-ampere per square foot nominal and~~ 15 volt-amperes per square foot maximum for the entire building.
- s. **MODIFY:** In Section D5000.00, Electrical, modify Paragraph I.C.3.a.(9)(e) as follows:
- (e) ~~Equipment~~, receptacle and small appliances voltage: 120/~~208~~/277 volts.
- t. **MODIFY:** In Section D5000.00, Electrical, modify Paragraph I.C.4. as follows:
4. ~~Locate lighting and appliance panelboards near the center of the load to be served.~~ Provide lighting panelboards separate from panelboards for receptacles and/or equipment.
- u. **MODIFY:** In Section D5010.10, Facilities Power Generation, modify Paragraph I.A.2.a.(2) as follows:
- (2) 2.5 volt-amperes per gross square foot for the entire building.
- v. **ADD:** In Section D5010.10, Facilities Power Generation, Paragraph I.F.1., add the following:
- (f) Generator main: Molded-case electronic circuit breaker.
- w. **MODIFY:** In Section D5020.00, Electrical Service and Distribution, modify Paragraph II.C.2.a.(1) as follows:
- (1) Insulated case electronic circuit breakers, individually mounted.
- x. **MODIFY:** In Section D5020.00, Electrical Service and Distribution, modify Paragraph II.C.3.a.(1) as follows:
- (1) Molded case electronic circuit breakers, group mounted.
- y. **ADD:** In Section D5020.00, Electrical Service and Distribution, Paragraph II.D., add the following and renumber subsequent items accordingly:
3. Main Devices
 - (a) Molded-case electronic circuit breakers.



- z. **REPLACE:** Replace Section D5040.00, Artificial Lighting, with revised Section D5040.00 dated July 25, 2014 and attached herewith as Attachment 2.2.
- aa. **REPLACE:** Replace Section D5040.30, Interior Lighting, with revised Section D5040.30 dated July 25, 2014 and attached herewith as Attachment 2.3.
- bb. **REPLACE:** In Section D6000.00, Communications, replace Table D6000.00-1 Communications Responsibilities with revised Table D6000.00-1, dated July 25, 2014 and attached herewith as Attachment 2.4.
- cc. **MODIFY:** In Section D7050.00, Detection and Alarm, modify Paragraph I.A.2. as follows:
2. In addition to protected premises system(s), provide ~~a~~ **two** new on-premises supervising station **annunciator panels** ~~located at security office~~ with connection between protected premises and supervising station **annunciator panels** by same method currently used for other buildings within the School District. **Coordinate locations and installations with local fire department.**
 - (a) **Locate one annunciator panel in vicinity of the main entrance Emergency Control Center adjacent to the Security Desk.**
 - (b) **Locate the second annunciator panel in the vicinity of the exit to Pulaski Street in the backup Emergency Control Center/Custodial Office, or as directed by the local fire department.**
- dd. **ADD:** In Section E2010.00, Fixed Furnishings, add Paragraph II.A.4. as follows:
4. **Provide motorized operators for all window treatments at windows with head higher than 9'-6" above the floor.**
- ee. **MODIFY:** In Section G2010.00, Roadways, modify Paragraph I.A.4.c. as follows:
- c. **Reconstruct all catch basins and** replace all curb inlets, **frames and grates** and related structures adjacent to and abutting new roadway, curb and sidewalk construction, in a manner compliant with all local standards and requirements.
- ff. **ADD:** In Section G2030.00, Pedestrian Plazas and Walkways, Paragraph I.A.3., add the following:
- i. **Granite curbs.**
 - j. **Granite block pavers.**



gg. **ADD:** In Section G2030.00, Pedestrian Plazas and Walkways, Section II., add the following:

G. Granite Curbs

- 1. Basis of Design: Granite vertical street (highway) type curb as manufactured by Swenson Granite Works, Newtown, CT.**
 - a. Granite curb color: standard grey.**
- 2. Granite curb shall be free of seams that impair its structural integrity, and is to be supplied in random lengths from 3'-0" to 10'-0". Granite curbing shall meet the following criteria:**
 - a. Bulk density: ASTM C-97.**
 - b. Absorption: ASTM C-97.**
 - c. Compressive Strength: ASTM C-170.**
 - d. Modulus of rupture: ASTM C-99.**
- 3. Granite curb dimensions: Granite curb is to be 4" in width, with the front arris line straight and true, with no variations greater than 1/8" measured from a 2' straightedge placed along the front arris line. The depth shall be a minimum of 17" measured from the top arris line to the bottom arris line, and shall have a tolerance of plus or minus 1".**
- 4. Granite curb top finish: Sawn to a true plane with no projections or depressions greater than 1/8". Visible saw marks are permissible.**
- 5. Granite curb face finish: Smooth quarry split face which is at right angles to the plane of the top, with no projections greater than 3/4" or depressions greater than 1/2" above grade line, measured from the vertical plane of the face through the top arris line, and no projections or depressions of greater than 1" below the grade line.**
- 6. Granite curb back finish: Back surfaces shall be dressed, with no projections or depressions greater than 1/4" for a distance of 4" from top arris. The remainder of the back face shall have no projections or depressions exceeding a batter of 1" in 3".**
- 7. Granite curb end finish: Ends of curbs at joints shall be approximately square with the planes of the exposed curb faces, and shall be sawn or hand-trimmed so that when the curbs are set, no space greater than 1/2" shall show for the full length and width of the joint. The curb ends below grade will be allowed to break back no more than 4".**
- 8. Granite curb reveal: 6" typical.**
- 9. Granite curb installation: Granular fill shall be placed and uniformly compacted to form a sub-base, and grade lines shall be strung for the entire**



length of all granite curb sections to allow for a visual inspection prior to installation. Stiff concrete shall be placed so as to surround every granite curb joint, end and intersection location, and shall be troweled smooth to ease installation of the vertical tree root barrier within the tree pits and tree trench. Note: Exercise extreme care to avoid any contact of concrete, especially tinted concrete, with the exposed faces of the granite curbing during placement and finishing.

10. Granite curb joints: Pre-molded expansion joints shall be installed every 30' maximum. Joints shall be mortared, slightly recessed and tooled. Dowels are not required. Mortar shall be composed of equal parts of cement and clean mason sand with sufficient water to make a mix of workable consistency. The materials shall conform to the requirements of ASTM C91 and C144. Note: Exercise extreme care to avoid any contact of mortar with the exposed faces of the granite curbing during placement and finishing.

H. Granite Block Pavers

1. Basis of Design: Belgian Block cubes (4" x 4" x 4"); color grey.
- a. Sawcut existing sidewalk to remove minimum 6' x 6' square as indicated to install new flagpole at entrance of existing school building.
 - b. Install granite block pavers at base of new 25' tall flagpole at entrance of existing school, in place of minimum 6' x 6' existing sidewalk slab saw-cut and removed to install new flagpole.
 - b. Compact subbase thoroughly following installation of flagpole, and reuse existing stone aggregate base from under the existing sidewalk. Supplement with additional stone base as required to achieve minimum 4" compacted thickness.
 - c. Place geotextile on top of compacted stone subbase, and 1" thick masonry sand setting bed on top of geotextile.
 - d. Install granite block pavers in sand setting bed, and compact pavers flush with surrounding sidewalk.
 - e. Sweep joints with polymeric sand; color grey.
- hh. **REPLACE:** In Section G2050.00, Athletic, Recreational and Playfield Areas, replace Paragraph II.A. in its entirety with the following:

A. Color Coating System for Asphalt

1. Basis of Design: StreetBond 150 SR, by Quest Construction Products.
- a. Provide applicator personnel, installation equipment and products fully certified by manufacturer.
 - b. Install on fully cured, clean new asphalt surface.



- c. Apply all components only when climate conditions are consistent with manufacturer's instructions.
- d. Provide adequate drying time for each layer before recoating or allowing traffic.
- e. All courts, shapes and lines shall be accurately laid out, drawn and masked, and in conformance with the requirements of each court or activity.
- f. Provide the following components in strict accordance with the manufacturer's instructions:
- (1) Adhesion promoter.
 - (2) Four coats of colored coating at recommended coverage, in one of two base colors.
 - (3) Two additional coats of color for court games as indicated.
- g. Provide base colors as follows:
- (1) Bus lane (within designated limits): Marigold.
 - (2) All other areas (within designated limits): Evergreen.
- h. Apply two additional color coats as follows:
- (1) 40-yard dash lanes: Terracotta.
 - (2) Basketball courts: Royal Blue.
 - (3) Four Square: Two opposing squares shall be Merlot and Paprika. The second pair of opposing squares shall be Marigold and Avocado. Surrounding field shall be Royal Blue, with squares defined by 2" wide painted White lines, and identified by minimum 1' tall stenciled capital letters A, B, C and D also painted White. The letters A and D must oppose each other.
 - (4) Chessboard: Slate and White. Outline the outside perimeter of the chessboard with Royal Blue.
 - (5) Math Ball, Fraction Square and Game Board: White lines and numbers on Terracotta field. Line width 2", number height 5".
 - (6) Agility Ladders: Alternating squares of Terracotta and Slate with 2" white lines.
- i. Provide additional painted graphics and markings as described below.



ii. **MODIFY:** In Section G2050.00, Athletic, Recreational and Playfield Areas, modify Paragraph II.C.1. as follows:

1. Basis of Design: 100% acrylic, VOC Compliant, lead free traffic and zone marking paint as manufactured by PPG Architectural Finishes, Inc., Pittsburgh, PA.
 - a. Apply two coats of Zoneline Traffic and Zone Marking Paint to the **fully cured color coating system** ~~asphalt surface that has already received at least one coat of BLACK Acrylic Resurfacer with Sand, and one coat of Stripe-Rite primer.~~
 - b. ~~Hopscotch and maps of the United States and New Jersey:~~ Use all four standard colors of traffic and zone paint—WHITE, YELLOW, Handicap BLUE and RED. In addition to the four standard colors, field mix RED and a smaller amount of WHITE to make Pink. Field mix Handicap BLUE and a smaller amount of WHITE to make Light Blue. Field mix RED and YELLOW to make Orange. Field mix RED with a smaller amount of Handicap BLUE to make Purple.
 - e. ~~Compass graphic: BLUE and WHITE.~~
 - d. ~~Math ball: Blue lines and numbers on yellow field. Line width 2"; number height 5".~~
 - e. ~~Marble ring: Blue lines and lettering. Line width 2", letter height 10".~~

jj. **ADD:** In Section G2060.00, Site Development, add Paragraph II.A.1.b.(6)(c) as follows:

(c) For each vehicular gate with motorized operation, provide keypad operators on each side, line-of-site manual override, call box, security camera, and safety devices to prevent crushing, entrapment or riding, in addition to all code-mandated features.

kk. **ADD:** In Section G2060.00, Site Development, add Paragraph II.C.2. as follows:

2. In front of existing school building at corner of Pulaski and Richmond Streets, provide matching 25' flagpole with all accessories and 4' x 6' flag.

ll. **MODIFY:** In Section G2060.00, Site Development, modify Paragraph II.D.3.a. as follows:

- a. Provide 6" diameter manually-operated lift bollards where indicated, **36" high, stainless steel finish.**



mm. **MODIFY:** In Section G2060.00, Site Development, modify Paragraph II.D.5.c. as follows:

c. Provide ~~timer-off~~ wire loop detectors for operation and manual override capability.

nn. **ADD:** In Section G3000.00, Liquid and Gas Site Utilities, Section II., add the following:

C. Water Supply

1. Where indicated, provide fire hydrant(s) in full compliance with City of Elizabeth Fire Department standards, with one 4.5" national standard thread outlet and two 2.5" New York Corp. threaded outlets and Knox FDC security devices.

C. CHANGES TO THE EDUCATIONAL SPECIFICATIONS:

1. **REPLACE:** In the Educational Specifications, replace page C-12 with revised page C-12, dated July 25, 2014 and attached herewith as Attachment 2.5.
2. **REPLACE:** In the Educational Specifications, replace page E-6 with revised page E-6, dated July 25, 2014 and attached herewith as Attachment 2.6.

D. CHANGES TO THE DRAWINGS:

1. **REPLACE:** Replace the following drawings with revised drawings of the same numbers and names, all dated July 25, 2014, and issued herewith as Attachments 2.7 through 2.16. All other plans, sections and elevations are modified accordingly by implication.

- S-1 Site Plan
- A-1 First Floor Plan
- A-2 Second Floor Plan
- A-3 Third Floor Plan
- A-6 Elevations
- A-6.1 Enlarged Elevations
- A-6.2 Enlarged Elevations
- A-6.3 Enlarged Elevations
- A-6.4 Enlarged Elevations
- A-8 Door and Window Elevations

2. **DELETE:** Delete all references to "Rain Barrel." The rain barrel will be provided by the Project School District.



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

1. Question: Schematic Design Drawing G-2
Note #17 – Temporary Walk Enclosures

Is it the intent that the Temporary Walk Enclosures are on the four sides of the proposed building? If so, how do you propose to maintain the existing sidewalks at Pulaski Avenue, Clifton Street & Cole Place and construct the building?

Are sidewalk bridges required at the existing school building exits?

Answer: Note #17 on Drawing G-2 refers to sidewalk *closures*, not enclosures. The Design-Builder may elect to provide sidewalk bridges and/or other enclosures as part of its plan to maintain sidewalk movement on adjacent streets.

2. Question: Schematic Design Drawing G-9

The Site Plan indicates a LOD line which is marked as a line of "Limit of Disturbance". Is this also to be considered the contract limit? If not, please provide a drawing that clearly delineates the contract limits for the project.

Answer: The revised Drawing S-1 Site Plan dated June 25, 2014 indicates the "Limits of Construction" and is attached herewith as Attachment 2.7.

3. Question: Educational Specifications, Section E, E-1 through E-35

Please confirm that the Design Build / General Contractor only provides and installs those items that are marked in the DB/GC column, and that the FEE, Tech and District columns are provided and installed by the SDA.

Page E-6, Teachers Desk, TD2 is marked as provided by DB/GC. Should this be FEE?

Answer: All items marked in the FFE, Tech and District columns are furnished and installed by the Authority or the District and are not the responsibility of the Design-Builder.

The Teachers Desk "TD2" is incorrectly marked as provided by DB/GC and should be an FFE item. See item C.2. above and Attachment 2.6.

4. Question: Is it possible to post the 'F' series drawings prepared by the NJSDA and included within the Educational Specifications document (but at reduced size) onto the FTP site so they can be readily plotted at full size like the other project drawings?



Answer: The posted "F" Series drawings are in PDF format and are legible when printed full-size.

5. Question: Is it possible to post the Figure 3 "Sample location Map" drawing dated 1.9.2014 by Brinkerhoff Associates from the Volume 3 document set onto the FTP site in order to make the text legible by plotting it at full size?

Answer: Figure 3 in the Site Investigation Report is based on a version of the site survey similar to Drawing G-1. The locations of the samples are not intended to be precise on Figure 3. Use Drawing G-1 for accurate survey information.

6. Question: Within the drawings currently posted to the FTP site, we noticed Drawing Sheet G-11 was omitted. Is that an intentional omission or should it something to be shared at this time?

Answer: Drawing G-11 was issued in Addendum #1, but may not have been legible. An updated copy of Drawing G-11 will be issued in a subsequent addendum.

7. Question: Given the extensive design work prepared by the SDA, do the current drawings satisfy the intent and space requirements of the project's educational specifications? Does the NJSDA expect any educational, support or core space changes will prove necessary to meet those ed.specs?

Answer: The schematic drawings included in the Design-Build Information Package have been approved by the District and NJDOE as satisfying the project educational specification requirements. It is the responsibility of the Design-Builder to provide a final design which satisfies all project requirements. To the extent that modification of the DOE-approved design is necessary to satisfy all project requirements, it is the responsibility of the Design-Builder to make such modifications and to ensure that the modified design satisfies all educational specification requirements.

8. Question: Will the NJSDA furnish the referenced missing data related to water capacity for fire flow test.

Answer: The Fire Flow Test data has been provided in the Design-Build Information Package in Appendix B of the Utility Investigation Report last revised June 9, 2014.

9. Question: Will the NJSDA provide the referenced missing data on sanitary sewer capacity to accept projected flow from a new 920+ occupant structure on site.

Answer: This question will be addressed in a subsequent addendum.



10. Question: Our recent site visits revealed a prevalent sewer gas odor not just adjacent to the existing twin sewer main that bisects the site but also as far away as at Clinton Avenue. Please elaborate on the SDA's expectation for odor mitigation on-site outdoors as well as within the new building from the fresh air intakes?

Will the existing odors be documented and objectively quantified by NJSDA prior to the start of construction as a bench line to compare against any post construction odor conditions?

What are the current carbon monoxide levels at the site due to adjacent vehicular traffic and are there any expectations that they should be mitigated in bringing fresh air into the new school?

Answer: This question will be addressed in a subsequent addendum.

11. Question: From an acoustical isolation perspective the new exterior doors are recommended to have an STC rating of 30 in order to perform adequately in the expected wall assemblies with stipulated OITC ratings; however, no finite STC minimum rating was given for the proposed new windows in the wall assemblies. What window rating has been determined to be sufficient to achieve the overall OITC 42 wall rating?

Answer: The Authority's Materials and Systems Standards include STC requirements for windows. In addition, refer to the Noise Study Report dated June 4, 2014 prepared by Paul Carpenter Associates Inc. Note the Design Standards and Recommendations, Conclusions, and Drawing S-1 in the report indicating STC and OITC requirements.

It is the responsibility of the Design-Builder to demonstrate compliance with the required OITC and STC requirements and all other requirements therein.

12. Question: KS Engineer's report avoids defining an average bearing capacity of the soil substrates and bedrock by suggesting they lack information about the weight of the proposed new building. Will the NJSDA furnish this consultant with the missing information so the respective bearing capacities can be established for estimating purposes?

Answer: This question will be addressed in a subsequent addendum.

13. Question: The KS Engineer's report discusses a possible size of drilled shaft caisson supports at 4' diameter which is quite substantial in size. What is the capacity of such caissons in the soils and bedrock on this site?

Answer: This question will be addressed in a subsequent addendum.



14. Question: The KS Engineer's report recommends drilled shaft caissons socketed into rock substrate; to what depth of rock drilling should be anticipated and should that extent of rock drilling be anticipated across the entire site or just at specific locations?

Answer: This question will be addressed in a subsequent addendum.

15. Question: What frequency of drilled shaft supports should be anticipated on this site? One per column with grade beams spanning from caisson to caisson or is the bearing capacity of the soil such that additional, intermediate caissons be required at mid points or third points under the column grid grade beams?

Answer: This question will be addressed in a subsequent addendum.

16. Question: As a 4 story building, structural steel relieving angles will be an essential component of the exterior wall design. Will the expectation be that special relieving angle masonry shapes be provided to conceal and cover those steel supports?

Answer: The Design Builder shall provide prefabricated lip brick and lip block special shapes at all relieving angles and lintels. Refer to NJSDA Model Schools Materials and Systems Standards Section Exterior Vertical Enclosures Section B2010.10.A.3.c for additional requirements. Field cutting to create lip units during construction is not permitted.

17. Question: Will the pour stops at building slab edges be required to be bent structural steel plates or will lighter gauge metal stops prove acceptable?

Answer: Either bent structural steel plates, or lighter gauge metal stops may be provided. The Design-Builder is required to provide a complete properly engineered and constructed project meeting all project requirements and presiding codes, regulations, and laws.

18. Question: Project Duration – Summary of Work states 916 days; D/B Agreement, Appendix A states 890 days. Please clarify.

Answer: The durations listed in Section 01010 Summary of Work are correct. See also item B.1.d. above, correcting the durations listed in Appendix A of the Design-Build Agreement.

19. Question: Section B2010.00 "Exterior Walls", Durability – states that metal framing can be used behind metal panel clad exterior walls. None shown on elevations. Verify no exterior metal panels.



Answer: There are no exterior metal panels.

20. Question: Section B2080.00 "Exterior Wall Appurtenances", under Products, section E – Exterior dimensional letters. Typeface "As indicated"; Height "As indicated" Sign Message "Name of School". What will the name be? How many letters shall be priced? Drawing elevation seems to indicate a printed panel sign. No size, typeface, or exact text is provided. Please clarify

Answer: See revised Drawings A-6 and A-6.3, attached herewith as Attachments 2.11 and 2.14 respectively, and Section B2080.00 of the Performance Specifications, as well as item B.3.e. above.

21. Question: Section C1010.50 "Interior Operable Partitions" – states that operable partitions shall be provided at the Stage proscenium, Cafetorium and Small Group Instruction Rooms. The only operable partition shown on the drawings is at the Stage proscenium. Please verify full extent of required operable partitions.

Answer: Provide Interior Operable Partition at Stage proscenium only.

22. Question: Doors to PE Offices show sidelights in plan. Door and frame elevations on A-8 do not show any sidelights. Please verify if sidelights are required at these locations, and if so, what size is required. Confirm that these doors (and sidelights if applicable) do not require bullet-resistant glazing since they are not between a corridor and a program space.

Answer: Sidelights shown at doors to PE Offices have been removed. See revised Drawing A-8, attached herewith as Attachment 2.16, and related floor plan(s).

23. Question: Interior windows (both single and double-wide units) are shown in the PE Offices and the Food Service Office. Please provide the size requirements for these windows, as there are no elevations shown on the Door and Window Elevations on A-8. Confirm that these windows shall be hollow metal (Specification Section C1020.00 just states "metal"), fixed (not operable) and do not require bullet-resistant glazing since they are not between a corridor and a program space.

Answer: See revised Drawing A-8, attached herewith as Attachment 2.16, and related floor plan(s).

24. Question: Science Lab, Grades 6-8: Educational Specifications reference the need to store chemicals. Will acid waste piping and an acid neutralization tank be required? If so, is it required for only the Grade 6-8 Science Labs or the Science Demonstration rooms as well?



Answer: Acid waste piping and acid neutralization are required for sinks in all Science Labs, Science Demonstration Rooms and Prep Rooms.

25. Question: Are all high bay windows treatments to be manual or motorized? Please advise.

Answer: See item B.3.dd. above.

26. Question: As noted on the finish plans, does the term "stairs" for resinous flooring include the risers? Please advise

Answer: Risers may be painted or finished with resinous flooring at the Design-Builder's option.

27. Question: The geotech report fails to discuss the slab on grade design in any appreciable detail. Typically, a geotech report will report the slab can be supported on grade and provide a subgrade modulus for the slab design OR the report would state that the soils are no good to support a slab on grade design and recommend the design should be a structural slab supported by the deep foundation system. Is it possible to arrange for the missing data to be furnished?

Answer: This question will be addressed in a subsequent addendum.

28. Question: SGI's: Educational Specifications state that one SGI shall have a dedicated gross motor skills area, which includes a swing supported from the structure above. This does not appear on the DOE approved furniture plans or on the Room Area Calculations and Fit-Out List. Which specific room shall have the swing and who is responsible to provide the swing (assume structural support and provisions for the swing within D/B contract).

Answer: There is no dedicated gross motor skills area. See item C.1. above and Attachment 2.5.

29. Question: What role will the D/B's environmental consultant play with regards to Brinkerhoff Environmental Services (BES) who is the Site Environmental Consultant/LSRP of Record? Who will be overseeing the daily environmental responsibilities (ie. Overseeing historical fill excavation, dewatering, etc.)

Answer: Refer to Sections 2.0 and 3.0 of the June 9, 2014 Remedial Action Workplan (RAW). The Authority's LSRP will provide oversight during implementation of remedial activities conducted by the Design-Builder. See also the responses to Questions #40 and #52 below.

30. Question: Are there any estimations of the amount of soil/historical fill that may need stockpiling?



Answer: No.

31. Question: Are there any known or suspected environmental conditions, specifically groundwater quality that may have an impact on dewatering tactics/costs? Any ideas as to the suspected quantity?

Answer: Refer to Section 4.6 of the June 9, 2014 Remedial Action Workplan.

32. Question: Will the LSRP on Record (Brinkerhoff) be reviewing and certifying the "clean fill" based on the analytical provided by the D/B?

Answer: Refer to the second paragraph of Section 4.0 of the June 9, 2014 Remedial Action Workplan. The Authority's LSRP will approve soil for import, but the Design-Builder will be responsible for obtaining clean fill certification and providing documentation to LSRP of record.

33. Question: CAD Files – on previous D/B bids, SDA indicated that CAD files would be made available to the successful team. Please confirm that will be the case for this project.

Answer: CAD files of all Schematic Design Drawings will be made available to the successful team.

34. Question: If any of the permits expire prior to the construction, will SDA be responsible for permit renewal or the selected Design/Build team be responsible?

Answer: The Design-Builder is responsible for renewal of all applicable permits.

35. Question: As per the schematic drawings, the proposed storm detention system appear to have infiltration beds. If the site is known to be contaminated, will this be acceptable? If not, is the Design Built team responsible for redesign of the storm system with a solid system?

Answer: The proposed stormwater detention system is not an infiltration system.

36. Question: Based on the geotechnical report, groundwater was found as shallow as 4' below existing grade. Will all the proposed underground structures need to be designed for buoyancy?

Answer: It is recommended that the underground structures be designed for buoyancy. All such recommendations presented for consideration shall be verified and ultimately determined and designed by the Design-Build team assigned to this project.



37. Question: Please mark the Window Types on the elevations and floor plans. Except for types W-1, W-4, W-5 and W-6, it is not clear which of the other types go where. Types W-12, W-13, W-14, W-15, W-16, W-19 and W-20 all say see elevations. However, these window types are not indicated on the drawing elevations. Also, there are four different types for the stairwells – W-9, W-10, W-17 & W-18. However, there locations are not shown. Please clarify.

Answer: See revised Drawings A-6 through A-6.4, attached herewith as Attachments 2.11 through 2.15, and related floor plans.

38. Question: Drawing G-2, Note 5-C - Note states that the cost for all utility replacement and/or relocation work shall be the responsibility of the Design-Build Contractor. The respective utility companies will not quote on the cost of relocating utility lines / new lines on proposed projects without a contractor in place. Since fully developed drawings are not available for them to review and provide an accurate price, it is suggested that an allowance be provided for all utility relocations. Specifically – water, sewer, gas, electric and telephone. Please advise.

Answer: The Design-Builder is responsible for all on-site utility relocations. For any off-site utility relocation that is to be performed by the respective utility, the work will be performed for the Authority and payment will be made directly to the utility by the Authority. The Design-Builder is responsible for all coordination of such work, whether on-site or outside the Limits of Construction.

39. Question: Drawing G-1 & G-6, Site Utility Plan - There are overhead utility lines along Clifton Street (North Elevation) which are within 10'-0" of the new building. Per utility requirements, these lines need to be placed underground or moved to the other side of the road, away from the building. If these line are to be relocated either underground or to the other side of Clifton Avenue, then an allowance should be provided. Please advise.

Answer: See the response to Question #38 above.

40. Question: We understand that the separately engaged LSRP will be responsible for the development and delivery of the RAR, RAO and Deed Notice, and that the design-build team will be responsible for the provision of analytical test results to the LSRP that are necessary to these ends.

- Will the LSRP or the Design-Build Team be responsible for development of a sampling plan?

- Will the LSRP or the Design-Build Team be responsible for overseeing the sampling effort?



- Answer: Refer to Section 2.2 of the Remedial Action Workplan (RAW). The Design-Builder will prepare necessary sampling plans for review by the LSRP. The Design-Builder will be responsible for oversight of daily site activities and provision of copies of receipts and documentation to the Authority and the LSRP for reporting purposes. The LSRP will provide periodic construction oversight and monitoring of daily activities to document the completion of tasks described in Section 4.0 of the RAW.
41. Question: The E.0.215 document indicates that a Flood Hazard Area Individual Permit will be required for the project. Will the design-build team be responsible for this permit application?
- Answer: No. The Authority will provide a FHA Permit for the project. An application is pending with the NJDEP.
42. Question: KS Engineer's geotechnical report does not state the Seismic Site Class for the project site. Per IBC and ASCE7-05, the Seismic Site Class effects what types of seismic lateral structural systems are allowed to be used in the building. Please provide the Site Class for this project.
- Answer: Based on 2009 IBC, Table 1613.5.2 Site Class Definitions, the Standard Penetration Resistance (N-values) observed during the field investigations, and the average N-values within the top 12 feet, the Site Class appears to fall within Site Class E. All such recommendations and data presented herein for consideration shall be verified and ultimately determined and designed by the Design-Build team assigned to this project.
43. Question: Drawing G-11 forwarded as an attachment to Addendum #1 is illegible at the scale provided. Please forward this drawing as a full size document.
- Answer: An updated Drawing G-11 will be issued in a subsequent addendum.
44. Question: Appendix A-Special Conditions, page 171 of the Design-Build Agreement indicates the project Substantial Completion time as 890 days and the Final Completion time as 1016 days, whereas Section 01010-Summary of Work indicates these completion times as 916 days and 1005 days respectively. Which is correct?
- Answer: The durations in Section 01010 Summary of Work are correct. See also item B.1.d. above, correcting the durations listed in Appendix A of the Design-Build Agreement.



45. Question: The numbering of the notes indicated by Site Plan G-2 appear to be incorrect and/or out of order.

Answer: A corrected Drawing G-2 will be issued in a subsequent addendum.

46. Question: Specification Section 01500-Temporary Facilities and Controls, paragraph 1.5, refers to the "Temporary Field Office for NJSDA per Subsection 3.2. G below," but no such subsection exists in Specification Section 01500.

Answer: The "G" is incorrect. Refer to Subsection 3.2 for the requirements for the temporary field office. See also item B.2.b. above.

47. Question: The Geotechnical Investigation Report by KSE dated Final Issued June 9, 2014 refers to unconfined compression strength tests for the bedrock at the site, but provides no specific information as to the bearing capacity of the bedrock which is needed in order to perform a preliminary analysis of foundation systems for the project. Please furnish this information and also confirm that the proposed foundation design shall be based upon the assumption that the bedrock strata extends throughout the entire footprint of the building.

Answer: This question will be addressed in a subsequent addendum.

48. Question: The Geotechnical Investigation Report by KSE dated Final Issued June 9, 2014 refers to a requirement to perform settlement monitoring of existing utilities adjacent to the proposed building, and that the settlement monitoring points should be monitored both at the start and end of each day at a minimum. Please confirm if such frequent monitoring is definitely required, whether such monitoring is required for the entire duration of the project, and whether this monitoring is the responsibility of the Design-Builder.

Answer: (1) Confirmed. In accordance with Section 6.8 through 6.8.3 of the Geotechnical Investigation Report, settlement monitoring is required.

(2) The duration and frequency of the settlement monitoring shall be verified and ultimately determined by the Design-Build team assigned to this project.

49. Question: The indication by Site Plan G-2 that only pedestrian travel will be allowed over the Joint Meeting Trunk sewer appears to be incorrect, since construction equipment access to this area will be needed in order to complete at a minimum the new work shown in this area such as sidewalks, underground utilities, etc., as well as to accommodate construction traffic along the stabilized entrance pad shown immediately adjacent to this easement by Drawing G-. The requirement to erect a fence around this easement also does not appear to be feasible. Please clarify.



Answer: The twin culverts currently are very close to the surface and subject to potential damage caused by heavy equipment or crane stabilizers, etc. It will be the responsibility of the Design-Builder to address construction in this area of the culverts in order to ensure that the culverts are not damaged. The Design-Builder has the option of constructing the roadway in this area first. In any event, the Design-Builder shall follow the recommendations within the KSE letter dated 6/9/2014 to the JMEUC, and shall obtain approval from the JMEUC of its Utility Protection Plan.

50. Question: Confirm whether the existing 6-foot high chain link fence at the perimeter of the site may be used for the temporary construction fence.

Answer: The existing fence must be modified or replaced by the Design-Builder with a fence complying with the height requirements and other requirements specified in Section 01500, Temporary Facilities and Controls.

51. Question: All potential detrimental effects to the existing utilities at the site as referenced by the notes on Site Plan G-2, such as those related to effects of vibration, dewatering, etc., are all effects related to unknown conditions. Please confirm that the GMP Reserve Allowance shall be used to cover the costs of all such unknown conditions.

Answer: Any such detrimental effects to existing utilities are the responsibility of the Design-Builder. The GMP Reserve Allowance is NOT to be used for such purposes.

52. Question: Please define the environmental design responsibilities of the Design-Builder.

Answer: Refer to Sections 2.0, 3.0, and 4.0 of the June 9, 2014 Remedial Action Workplan.

53. Question: Confirm whether a separate set of design drawings shall be required for E-Ratable items.

Answer: Confirmed. See Section 3.19 of the Agreement.

54. Question: Clarify whether manhole extensions are required for the existing Joint Meeting Trunk Sewer or the Combined Sewer Overflow utilities.

Answer: The Design-Builder shall review the site condition of the existing manhole and design the appropriate solution for raising the manhole covers as necessary to adjust final pavement grades along the bus lane.



55. Question: Confirm whether or not underground pipe hangers will be required to support underground piping within the footprint of the building.
- Answer: The need for underground pipe hangers will be determined by the Design-Builder's final design, which must be in accordance with all applicable codes and standards.
56. Question: Confirm whether the LSRP of record will be designing the vapor mitigation system and who will be responsible for approval and inspection of this system.
- Answer: Refer to Section 4.1 of the June 9, 2014 Remedial Action Workplan. The Design-Builder will design the system in accordance with required components and submit specifications to the Authority's LSRP for review and approval. The Design-Builder will be responsible for installation of the approved system.
57. Question: The Geotechnical Investigation Report by KSE dated Final Issued June 9, 2014 recommends that subsurface utilities be installed on a bed of clean stone wrapped in geotextile fabric. Confirm whether utility corridors under the cap have to be backfilled with certified clean fill, and whether the entire column of soil above utilities below the cap has to be certified clean fill, and whether utility corridors below the footprint of the building have to be backfilled with certified clean fill.
- Answer: Underground utility corridors (new and existing) must comply with the most recent version of the NJDEP's Presumptive and Alternative Remedy Technical Guidance, provided as Appendix V and discussed in Section 4.7 of the June 9, 2014 Remedial Action Workplan. As per Section 6 of the August 2013 Version 2.0 of the NJDEP Presumptive and Alternative Remedy Technical Guidance, an alternative remedy may be proposed for the underground utility corridors. Proposal of alternative remedies shall be provided by the Design-Builder to the Authority's LSRP for review and submission to the NJDEP on behalf of the Design-Builder. NJDEP approval is required before implementing a proposed alternative remedy.
58. Question: Confirm whether existing utilities at the site such as the Joint Meeting Trunk Sewer or the Combined Sewer Overflow are subject to compliance with the presumptive remedies, and if so, whether the surrounding and/or bedding materials of the existing utilities have to be clean material that is required by the NJDEP presumptive remedies for serviceable utilities.
- Answer: See the response to Question #57 above.
59. Question: Confirm whether existing utilities at the site such as the Joint Meeting Trunk Sewer or the Combined Sewer Overflow will need to be upgraded to meet the NJDEP presumptive remedies.



Answer: See the response to Question #57 above.

60. Question: Please furnish cross section details for all presumptive remedy scenarios for the project in order to clarify ambiguity in the NJDEP presumptive remedy guidance.

Answer: Refer to NJDEP Presumptive Remedy Guidance, Appendix C - Table 5.1 - provided in the June 9, 2014 Remedial Action Workplan as Appendix V.

61. Question: Provide the design capacity of the existing Joint Meeting Trunk Sewer and the Combined Sewer Overflow utilities, and confirm whether their design capacities are sufficient to withstand highway and traffic loading, as well as loading imposed by the presumptive remedy cap and grading of the site.

Answer: The design capacities of the existing Joint Meeting Trunk Sewer and Combined Sewer Overflow utilities have not been provided by the authorities governing these utilities. The design capacity of the existing Joint Meeting trunk sewer and the combined sewer overflow for highway and traffic loading, as well as loading imposed by the presumptive remedy cap and grading of the site will need to be determined by the Design-Build team assigned to this project.

62. Question: In instances where the Design-Builder and their environmental consultant deviate from NJDEP guidance or vary from the regulations, please confirm what mechanism or process is required by the SDA to resolve differences of professional opinion for the design and development of the site.

Answer: N.J.A.C. 7:26E-1.7 allows for a variance from the technical requirements provided certain criteria are met. The LSRP of Record shall review any proposed variance prior to submission and implementation.

63. Question: Please confirm whether Hexavalent Chromium and Trivalent Chromium are compounds of concern at the site.

Answer: Refer to the June 9, 2014 Site Investigation Report (SIR), Section 4.1.1.1.

64. Question: Confirm whether the NJDEP linear construction guidance document be used to deal with the existing utilities, such as the Joint Meeting Trunk Sewer and the Combined Sewer Overflow utilities, as well as new utilities.

Answer: No. The Linear Construction Guidance does not apply.

65. Question: Site Drawing G-2, Note 7, indicates that the Design-Builder shall be responsible for the removal of "subsurface residual concrete footings, foundations, slabs or potentially other miscellaneous sub-surface debris within the zone of



construction.” Please confirm that this responsibility relates solely to subsurface debris identified by the geotechnical investigation test pits referenced by the Bid Documents, and that the Design-Builder shall be compensated for the removal all subsurface debris that has not been identified, since this is an unknown condition.

Answer: See Section G0000.00 Sitework, Paragraph I.B.1.

66. Question: Please confirm whether historic herbicides have been investigated and/or identified as a compound of concern on the property of the site.

Answer: No. According to N.J.A.C. 7:26E, the TAL/TCL parameters list does not include historic herbicides.

67. Question: Since TCE was detected above the VI screening levels, confirm whether a sub-slab/near-slab VI investigation was performed, and if not, when this will be performed and by whom, since the results may impact the design of the VI mitigation system.

Answer: Refer to Section 4.1 of the June 9, 2014 Remedial Action Workplan. The passive VI mitigation system will be installed as part of the new building construction in anticipation of the possible need for installation of an active system in the future, should conditions warrant.

68. Question: It appears that PCB’s were detected in the waste classification sample above the RDCSRS, and are a compound of concern at the proposed site. Confirm whether PCB’s are site wide and have been investigated and delineated, whether the site wide cap has to meet presumptive remedies for PCB’s, and advise how the SDA proposes to address and deal with PCB’s at the site.

Answer: Refer to Section 8.0 of the June 9, 2014 Site Investigation Report. The remedial strategy implemented must comply with NJDEP presumptive remedies as discussed in Section 4.7 of the June 9, 2014 Remedial Action Workplan and all applicable Federal, State, and local requirements.

69. Question: Since it appears that contaminated groundwater has been identified to exist at the site, confirm whether an area at the site needs to be dedicated for any future groundwater remediation system.

Answer: The Design-Builder is not responsible for addressing groundwater impact—only soils. Refer to Section 4.6 in the June 9, 2014 Remedial Action Workplan for dewatering activities.

70. Question: Confirm whether a Storm Water Prevention Pollution Plan (SWPPP) will be required for the project.



Answer: This site is not an industrial use and a SWPPP is not required.

71. Question: Confirm whether the source of the contaminated groundwater, specifically as it relates to TCE and PCB's, has been identified at the site, and whether any consideration for these sources must be made by the Design-Builder.

Answer: No source has been identified. The Design-Builder is not responsible for identification of a source for groundwater impact.

72. Question: The Site Investigation Report (SIR) states that two (2) Historic fill samples were collected per acre for a four (4) acre site. Since the site comprises 5.79 acres and the NJDEP requires four (4) Historic samples per acre, it appears that this would result in a requirement for twenty-four (24) discrete Historic fill classification soil samples for the site. It also appears that additional samples may be required due to the presence of PCB's above the RDCSRS. Confirm is this correct and if so, who is to be responsible for providing these additional samples.

Answer: This question will be addressed in a subsequent addendum.

73. Question: Disposal costs related to Historic fill are contingent upon the volume of soil that is to be disposed and also upon the waste characterization sample results that the SDA will require the Design-Builder to perform. Confirm whether in-situ waste classification sampling or stockpile sampling are required, and whether there is a cost allowance or contingency for contaminated Historic fill sampling and disposal, especially since the volume of removal is contingent upon the foundation design requirements.

Answer: Refer to Section 2.2, 4.3, and 4.4 of the July 9, 2014 Remedial Action Workplan.

74. Question: The RAW references the use of the August 2013 NJDEP Presumptive and Alternative Remedy Technical Guidance, whereas Appendix V of the RAW provides the December 2011 guidance. Confirm which guidance will be used and whether it will be provided.

Answer: The "Alternative and Clean Fill Guidance for SRP Sites" is dated December 2011 and included in Appendix I of the June 9, 2014 RAW. The "Presumptive and Alternative Remedy Technical Guidance" is dated August 2013 and provided in Appendix V of the June 9, 2014 RAW. The Design-Builder shall use the most recent version of any referenced NJDEP guidance documents found on the NJDEP SRP website.



75. Question: The RAW states that the presumptive remedies shall be utilized within the limits of new construction. Please define the limits of the required cap and presumptive remedies.
- Answer: Refer to Section 4.7, Appendix IV, and Appendix V of the June 9, 2014 Remedial Action Workplan.
76. Question: Confirm that the environmental cap does not extend into areas of public right of way.
- Answer: The cap does not extend into the areas of public right-of-way.
77. Question: Section 4.7 of the RAW states that the City of Elizabeth BOE will inspect the presumptive remedy on a semi-annual or annual basis, whereas Section 4.7.2 states this inspection will be done periodically and document every two (2) years. The frequency of inspection will dictate the option chosen for the presumptive remedy cap. Confirm whether the Design-Builder has the options provided in the presumptive remedy guidance or whether the SDA has predetermined the cap options they prefer.
- Answer: The D/B may use an option provided in the Presumptive Remedies guidance (or propose an alternative remedy) as stated in Section 4.7 and Appendix V of the June 9, 2014 Remedial Action Workplan.
78. Question: Since the borings show the existing historic soil at the site to be red clay and "the majority to be in a soft state" and since the finished slab is approximately 3'4" above the surface of the existing soil, new fill will be required above the existing soil surface. The Geotechnical Investigation Report by KSE dated Final Issued June 9, 2014 does not appear to address the compaction requirements for the existing historic fill prior to overlaying this material with new fill and the presumptive remedy cap. Please clarify.
- Answer: This question will be addressed in a subsequent addendum.
79. Question: Please confirm that existing abandoned utility lines that do not interfere with new construction may be left in place and do not have to be removed.
- Answer: All existing abandoned utility lines that are encountered shall be removed and properly disposed of. See Section G0000.00, Sitework, Paragraph I.B.2.
80. Question: Specification Section G0000.00, page 4 of 6, indicates that "Stormwater control and detention measures shown have been reviewed and approved by the NJDEP and an Individual Flood Hazard Area Permit has been applied for and is pending." Please confirm that the Design-Builder shall not be required to submit



to NJDEP for an FHA permit if the stormwater design indicated by the Bid Documents is followed.

Answer: The Authority is in the process of obtaining a FHA Permit for the project site as designed. In the event that the Design-Builder wishes to modify the stormwater design, then the Design-Builder shall follow the applicable NJDEP Regulations and an amended approval may be required from the NJDEP and shall be obtained by the Design-Builder.

81. Question: Specification Section G3030.00, page 1 of 4, indicates that "Design-Builder must demonstrate through hydrologic and hydraulic analysis that the stormwater control systems must meet the minimum design and performance standards and all applicable codes and regulations." Based upon the indication by Drawing G-17 that the project is subject to NJAC 7:8, and presuming that the DEP-approved stormwater design was designed as such, confirm whether the Design-Builder will be required to re-analyze the DEP-approved stormwater management design after the fact to demonstrate that it meets the applicable stormwater codes.

Answer: See response to Question #80 above.

82. Question: Drawing G-17 indicates that the FHA limit is based upon FEMA mapping. Please confirm that the established building elevation will not change as it has in many other places in the posthurricane Sandy flood level re-analysis.

Answer: Pursuant to a Pre-Application meeting held with the NJDEP, the FHA elevation of 12 is the anticipated Base Flood Elevation. An FHA Permit is pending.

83. Question: Specification Section G1000.00, page 2 of 2, indicates "Prohibit heavy construction equipment and cranes within the twenty-foot-wide easement." Please clarify what constitutes "heavy equipment" and provide the design capacity of the sewer trunk line, and confirm whether it is designed for traffic loading, and at what depth of cover.

Answer: See response to Question #49 above.

84. Question: Site Plan S-1 does not identify the soccer field and main entrance surfaces, and the background shading for the building footprint is obliterating the lines extending from the notes describing the various site features. Please clarify.

Answer: A revised Drawing S-1 is attached herewith as Attachment 2.7.

85. Question: In addition to Drawings No. A1 through A12, S1, G1 through G18 and FS-1 all dated 6-9-14 as listed by the Table of Contents for Volume 3, the Bid Documents contain additional Drawings identified the same as No. A1 through A4, S1, but



dated 6-6-14, along with Drawings F1 through F4 dated 6-6-14 showing a furniture plan. Please clarify which drawings are to be used for bidding.

Answer: The DOE-Approved Documents (dated 6-06-14) were prepared for the purpose of securing the Department of Education's schematic approval. All other drawings provide additional information beyond what is required for that approval. Both sets of drawings are to be used in preparation of the Design-Build Technical and Price Proposals.

86. Question: Please provide descriptions for the keynote numbers within pentagons as indicated by Section A-A on Drawing G-12.

Answer: A revised Drawing G-12 will be issued in a subsequent addendum.

87. Question: Please confirm whether PVC piping is acceptable for use in storm and sanitary plumbing systems for both above and below grade installations.

Answer: RCP shall be used where indicated. HDPE pipe is used in connection with the underground systems. Other storm pipe used on site is DIP due to cover issues. PVC is not acceptable for stormwater.

88. Question: Please confirm whether PVC piping is acceptable for use in the gas mitigation system.

Answer: This question will be addressed in a subsequent addendum.

89. Question: The 4 June 2014 report, prepared by Paul Carpenter Assoc., summarized the existing acoustical conditions at the project and recommended the acoustical design goals for the project be consistent with the ANSI Classroom acoustical standard (ANSI S12.60-2010). The ANSI standard has a background sound level requirement of 35 dB(A) in core learning spaces, in addition to sound isolation and reverberation time requirements. Recent NJSDA projects and the Model Schools TAM have used the acoustical standards outlined in the NJSDA 21st Century Design Manual (May 2007) which cites the reverberation time and sound isolation requirements of the ANSI standard but uses the LEED for Schools background sound level requirement of 45 dB(A) in core learning spaces. Please note that the design of the HVAC system to meet a background sound level of 35 dB(A) in core learning spaces is very costly. In addition, the cost for windows to meet the OITC requirements for this project would also be higher than what is typical for urban schools, as STC40-45 windows will be likely needed, where STC-35 windows are normally used in schools. Please clarify whether these acoustical design goals are required for the project.



Answer: The NJSDA 21st Century Design Manual (May 2007) does not apply to the Authority's Design-Build projects. The Design-Builder must comply with the requirements of the Noise Study Report dated June 4, 2014 and all project requirements and applicable codes and standards.

90. Question: The Utility Investigation and Analysis prepared by John S. Truhan Consulting Engineers, Inc. refers to verbal quotes of \$8,000 to up to \$20,000 for sonar inspection of the twin culverts, a TV inspection estimate of \$3,500 to \$4,000, a budget amount of \$35,000 to \$40,000 for pumping between the two culvert structures, as well as other coordination fees. Please clarify who is responsible for these costs.

Answer: The quotes are for general guidance only and not for use by the Design-Builder. All new testing is the responsibility of the Design-Builder, as is coordination with the JMEUC regarding such testing.

91. Question: Please confirm whether a fire pump, a pre-action system and sprinkler system maintenance are required for the fire suppression system for the project.

Answer: This question will be addressed in a subsequent addendum.

92. Question: The Advertisement identifies the school as a 140,000 square foot facility whereas Section 01010-Summary of Work identifies the school as a 141,000 square foot facility. Which is correct?

Answer: Both numbers are approximate. The exact final building area will be determined by the Design-Builder. See also item B.2.a. above.

93. Question: Please consider extending the deadline for Requests for Information as additional time will be needed to address additional questions that will arise during bidding, especially in conjunction with any subsequent Addenda clarifications that may be issued.

Answer: No extension of the deadline is being granted.

94. Question: Spec section 01010 "Summary of Work" mentioned that the Substantial completion will be within 916 Calendar days and the final completion will be with 1,005 calendar days. While, the special conditions Appendix A mentioned that the Substantial completion will be within 890 days and the final completion will be within 1,016 Calendar days. Please clarify.

Answer: The durations in Section 01010 Summary of Work are correct. See also item B.1.d. above, correcting the durations listed in Appendix A of the Design-Build Agreement.



95. Question: Please confirm that the testing will be performed by the Owner.

Answer: No. Design-Builder is responsible for the costs and coordination of all testing except for testing in support of N.J. Uniform Construction Code Special Inspections, and additional testing as may be requested by NJSDA, in accordance with Section 5.3 of the Design Build Agreement. Testing by the Design-Builder must be performed in accordance with Section 01410 and all project requirements. Refer to Section B.1.c of this Addendum, above, for changes made to Section 5.3 of the Agreement to clarify this requirement.

96. Question: Due to the complexity of the traffic conditions surrounding the site and considering the amount of the exterior improvements, please consider establishing an allowance for traffic control since it will be very difficult for the Contractor to calculate such costs.

Answer: No such allowance is being established. All traffic control costs are the responsibility of the Design-Builder.

97. Question: Please confirm what will be the site grades prior to the Contractor occupying the site so earthwork calculations can be completed.

Answer: Drawing G-1 indicates existing site grades, which will be unchanged at the time the Design-Builder occupies the site.

98. Question: Please confirm that the existing construction fence will be used in the project phase, and will be removed and disposal by the Contractor.

Answer: See the response to Question #50 above.

99. Question: Please advise the environmental conditions of the existing Underground water.

Answer: Refer to Section 5.0 of the June 9, 2014 Site Investigation Report and Section 4.6 of the June 9, 2014 Remedial Action Workplan.

F. CHANGES TO PREVIOUS ADDENDA:

1. Not applicable.

G. ATTACHMENTS

1. Attachment 2.1: Revised Technical Proposal Form APPROACH TO LEED REQUIREMENTS dated July 25, 2014.



- 2. Attachment 2.2: Revised Section D5040.00, Artificial Lighting dated July 25, 2014.
- 3. Attachment 2.3: Revised Section D5040.30, Interior Lighting dated July 25, 2014.
- 4. Attachment 2.4: Revised Table D6000.00-1 Communications Responsibilities dated July 25, 2014.
- 5. Attachment 2.5: Revised Educational Specifications page C-12 dated July 25, 2014.
- 6. Attachment 2.6: Revised Educational Specifications page E-6 dated July 25, 2014.
- 7. Attachment 2.7: Revised Drawing S-1 Site Plan dated July 25, 2014.
- 8. Attachment 2.8: Revised Drawing A-1 First Floor Plan dated July 25, 2014.
- 9. Attachment 2.9: Revised Drawing A-2 Second Floor Plan dated July 25, 2014.
- 10. Attachment 2.10: Revised Drawing A-3 Third Floor Plan dated July 25, 2014.
- 11. Attachment 2.11: Revised Drawing A-6 Elevations dated July 25, 2014.
- 12. Attachment 2.12: Revised Drawing A-6.1 Enlarged Elevations dated July 25, 2014.
- 13. Attachment 2.13: Revised Drawing A-6.2 Enlarged Elevations dated July 25, 2014.
- 14. Attachment 2.14: Revised Drawing A-6.3 Enlarged Elevations dated July 25, 2014.
- 15. Attachment 2.15: Revised Drawing A-6.4 Enlarged Elevations dated July 25, 2014.
- 16. Attachment 2.16: Revised Drawing A-8 Door and Window Elevations dated July 25, 2014.

H. SUPPLEMENTAL INFORMATION

- 1. Not applicable.

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. 2



 NJSDA Director
 Corrado Minervini
 Director

JUL 30 2014

Date



Addendum #2

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

Date: July 30, 2014

PROJECT #: EL-0042-B01
New Elementary School
Elizabeth Public Schools

DESCRIPTION: Addendum #2

Acknowledgement of Receipt of Addendum

Contractor hereby acknowledges the receipt of this Addendum by signing in the space provided below and returning via fax to (609-656-4609) or E-mail (MATaylor@njsda.gov). Signed acknowledgements must be received prior to the Bid Due Date. Acknowledgement of the Addendum must be made in Section E.6 of the Price Proposal Submission.

Signature

Print Name

Company Name

Date