

**PUBLIC BUILDING COMMISSION OF CHICAGO**

**ADDENDUM NO. 2 TO CONTRACT NO. 1514  
FOR**

**12<sup>th</sup> District Police Station  
1412 S. Blue Island Ave.**

**FOR  
12<sup>th</sup> District Police Station and associated Site Work**

**BY:** VOA Associates Incorporated

**DATE:** July 9, 2010

**NOTE TO BIDDERS:** The bid documents initially posted on the Cushing website for this project erroneously included documents for the former site at 1410 South Ashland Ave. This error has been corrected and these documents have been removed.

**NOTICE OF CHANGES IN CONTRACT DOCUMENTS**

The following changes are hereby made in the Contract Documents. Insofar as the prior Contract Documents are inconsistent herewith, the changes mentioned hereinafter shall govern unless the original language takes precedence according to the Order of Precedence of Components of the Contract Documents.

**In Book 3A, Technical Specification, SECTION 00201, Part 1-General**

1. Replace paragraph 1.1 Applicability with the following:
  - 1.1 The information summarized in this section is applicable to the Police District 12 site and is inclusive of the site description, site history, and environmental conditions that exist at the said site.
2. Add Part 1.4 H as follows:
  - 1.4 H *Subsurface Exploration & Geotechnical Report prepared by Ground Engineering Consultants, Inc., dated December 8, 2009.*
3. Replace last paragraph of Part 1.4 with the following:

Refer to Appendices A through L in Book 3C for the available environmental and geotechnical assessment documents.
4. Replace Part 1.6 Site History, paragraph A with the following:
  - A. Historical records indicate that the site has contained a mix of residential, commercial and manufacturing companies. Residential buildings were removed in December 2009 to clear the site for planned construction of the 12<sup>th</sup> District Police Station. Remaining subsurface structures were removed in April 2010 as part of the site preparation work for the construction of the 12<sup>th</sup> District Police Station.

Replace Part 1.7 Environmental Conditions, paragraph D with the following:

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- D. Thirteen (13) soil borings were advanced at the site in 2009 to evaluate the site for potential impacts from recognized environmental conditions (RECs) previously identified in the Phase I Environmental Assessment. Soil samples were analyzed for the presence of various constituents of concern. The laboratory analysis for those samples identified the following constituents:
- Concentrations of polynuclear aromatic compounds (PNAs) identified above the Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Soil Remediation Objectives (SROs) for the ingestion and soil to groundwater pathways across the site to a depth of three (3) feet below the elevation of 13.17 Chicago City Datum.
  - Concentrations of PNAs identified above the IEPA TACO Tier 1 SROs for the ingestion and soil to groundwater pathways in the northwest portion of the site to a depth of at least eight (8) feet below the elevation of 13.17 Chicago City Datum.
  - Concentrations of PNAs identified above the IEPA TACO Tier 1 SROs for the ingestion and soil to groundwater pathways in the eastern portion of the site to a depth of at least twelve (12) feet below the elevation of 13.17 Chicago City Datum.
  - Concentrations of lead identified above the IEPA TACO Tier 1 SROs for the industrial commercial and construction worker ingestion pathways in the northwest portion of the site to a depth of eight (8) feet below the elevation of 13.17 Chicago City Datum and west portions of the site to a depth of three (3) feet below the elevation of 13.17 Chicago City Datum.
  - A concentration of naphthalene identified above the IEPA TACO Tier 1 SRO for the construction worker inhalation pathway in the eastern portion of the site to a depth of twelve (12) feet below the elevation of 13.17 Chicago City Datum.

Refer to Appendices A through L in Book 3C and SHEET ENV.1 for the locations of the elevated naphthalene and lead concentrations and the boundaries of the IEPA Site Remediation Program (SRP) site. Refer to Book 3C Appendix E *Phase II Environmental Site Assessment Report* and Book 3C Appendix F *Focused Phase II Environmental Site Assessment Report* for the soil sampling locations and analytical data.

### **In Book 3A, Technical Specification, SECTION 02316, Part 1.3.B**

1. Addition of Part 1.3.B.3 to read as follows:
  - 1.1 Exception for virgin clay removal and disposal.
    - a. The contractor may excavate, stockpile, haul and dispose of clean construction and demolition debris (CCDD) obtained from 20 feet or more below the elevation of 13.17 Chicago City Datum, consisting of native clay that meets conditions noted in Section 02316, separately from other materials. The material can be sent to a CCDD facility if the following conditions are met:
      - i. The CCDD facility is approved by the PBC prior to Contract execution.

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- ii. The Contractor must utilize an open and permitted CCDD operation facility as specified under Title 35: Environmental Protection, SubtitleJ: Clean Construction or Demolition Debris; Chapter 1: Pollution Control Board; Part 1100.
  - iii. The Contractor shall follow the CCDD facility's procedures for accepting and receiving CCDD material prior to transport. The Contractor shall collect and deliver all required information requested by the CCDD site for virgin clay approval including but not limited to environmental site information, sampling and analytical data, PID screening, etc.
  - iv. Authorization shall be signed by the owner of the open and permitted CCDD facility and state that the facility complies with all local zoning codes and all local, state, and federal rules and regulations, and that the facility has agreed to accept the virgin clay being sent from the project site.
  - v. The virgin clay must not come in contact with other materials during excavation, stockpiling, loading, or hauling. All equipment used for the excavation, stockpiling, and loading of contaminated soils must be properly cleaned and decontaminated, prior to beginning virgin clay handling activities. If the virgin clay is stockpiled, it must be placed on and covered by clean plastic sheeting. The virgin clay must not come into contact with existing soil on site or stormwater runoff. The Contractor shall surround all stockpiles by berms.
  - vi. The Contractor shall provide copies of all weight tickets and receipts to the MEC within 5 days of materials leaving the site to the CCDD facility.
- b. The Managing Environmental Consultant (MEC) may collect samples for laboratory analysis or field PID screening. The Contractor shall provide the necessary equipment and manpower to assist the MEC to collect soils to be sampled or screened at no additional cost to the project.
  - c. The PBC and the MEC have the authority to approve or disapprove removal and disposal of virgin clay off site as CCDD.
  - d. The above conditions are not met; the virgin clay must be transported to the open and approved Subtitle D landfill at the Contractor's expense. The determination will be made by the PBC and the MEC.

### **In Book 3A, Technical Specification, SECTION 02815 "Water Harvesting",**

1. Revise Part 2 "EQUIPMENT" paragraph 3.1 to read:
  - A. Vortex Filter will be replaced by "CDS System": A CDS system shall be provided by Contech. Model Number CDS-2015-4. This system replaces WH MH-15. Refer to C401 for plan view and cross section.

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2. Revise paragraph 3.3.B. to read as follows:
  - B. Special Manufacturer's Warranty: Manufacturer's standard form in which manufacturer agrees to repair, restore, or replace defective work within specified warranty period.
    1. Warranty Period: Two years from date of Substantial Completion.
3. Add paragraph 3.3.C. to read as follows:
  - C. Initial Maintenance Service: Beginning at Substantial Completion, provide two years full maintenance service by skilled employees of rainwater harvesting Installer. Include monthly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper equipment operation. Provide parts and supplies same as those used in the manufacture and installation of original equipment.
    1. Perform maintenance, including emergency callback service, during normal working hours.

### In Book 3A, Technical Specification, SECTION 06100 "Rough Carpentry",

1. Revise paragraph 2.11 to read as follows:
  - 0.11 SELF-ADHERING AIR AND WATER MEMBRANE
    - . Air and Water Infiltration Barrier: Self-adhering membrane composed of flexible facing material coated completely on one side with adhesive material, formed into flexible sheets, interleaved with disposable release liner. Membrane shall allow water vapor to permeate through while acting as a barrier to air and rain water. Provide associated accessories including primer, membrane transitions and fluid and sealant recommended by manufacturer.
      1. Air leakage: <0.002 CFM/sq.ft. @ 1.6 lbs/sq.ft. per ASTM E283-91 and ASTM E283, no increased air leakage when subjected to sustained wind load of 10.5 lbs/sq.ft. for 1-hour and gust wind load pressure of 62.8 lbs/sq.ft. for 10-seconds when tested at 1.6 lbs/sq.ft. per ASTM E3331.
      2. Water vapor permeance: 37 perms per ASTM E96
      3. Low temperature flexibility: -40 degrees F, pass per ASTM D3111
      4. Product: Subject to compliance with requirements, provide one of the following:
        - a. Henry; Blueskin Breather.
2. Revise paragraph 3.5 to read as follows:
  - 0.1 SELF-ADHERING AIR AND WATER MEMBRANE
    - A. Cover sheathing with air and water infiltration barrier as follows:
      1. Apply primer at rate recommended by manufacturer.
      2. Seal inside and outside corners of sheathing boards with a strip of self-adhering membrane, extend minimum 3-inches either side of corner.

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3. Transition areas: tie in to windows, curtainwall, structural beams, columns, floor slabs, parapet curbs and roofing systems and at the interface of dissimilar materials in accordance with manufacturer's recommendations.
4. Window and rough openings: wrap head and jamb or rough openings with self-adhering membrane. Place sill flashing membrane across sills and end dam terminations.
5. Apply air and water infiltration barrier complete and continuous to prepared and primed substrate in overlapping shingle flashing in accordance with manufacturer's recommendations. Ensure minimum 2-inch overlap at all end and side laps of membrane.
6. Seal membrane terminations, heads of mechanical fasteners, masonry tie fasteners, around penetrations, electrical and other apparatus extending through the primary water resistive air barrier membrane and around the perimeter edge of membrane terminations at window and door frames.

### **In Book 3A, Technical Specification, SECTION 06400 "Interior Architectural Woodwork",**

1. Delete paragraph 2.1.B.
2. Add paragraph 2.1.B to read as follows:
  - B. Epoxy: Factory-molded, modified epoxy-resin formulation with smooth, nonspecular finish.
    1. Manufacturers: Subject to compliance with requirements, provide product by one of the following:
      - a. Durcon Company (The).
      - b. Epoxyn Products.
    2. Physical Properties:
      - a. Flexural Strength: Not less than 10,000 psi.
      - b. Modulus of Elasticity: Not less than 2,000,000 psi.
      - c. Hardness (Rockwell M): Not less than 100.
      - d. Water Absorption (24 Hours): Not more than 0.02 percent.
      - e. Heat Distortion Point: Not less than 260 deg F.
    3. Chemical Resistance: Epoxy-resin material has the following ratings when tested with indicated reagents according to NEMA LD 3, Test Procedure 3.4.5:
      - a. No Effect: Acetic acid (98 percent), acetone, ammonium hydroxide (28 percent), benzene, carbon tetrachloride, dimethyl formamide, ethyl acetate, ethyl alcohol, ethyl ether, methyl alcohol, nitric acid (70 percent), phenol, sulfuric acid (60 percent), and toluene.
      - b. Slight Effect: Chromic acid (60 percent) and sodium hydroxide (50 percent).
    4. Color: Black

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### In Book 3A, Technical Specification, SECTION 07160 "Bituminous Dampproofing",

1. Delete section in its entirety.

### In Book 3A, Technical Specification, SECTION 07210 "Building Insulation",

1. Add paragraph 2.1 D. to read as follows:
  - D. Foil-Faced, Flexible Glass-Fiber Board Insulation: ASTM C 612, Type IA or ASTM C 553, Types I, II, and III; faced on one side with foil-scrim-kraft vapor retarder; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84.
    1. Nominal density of not less than 1.5 lb/cu. ft. (24 kg/cu. m) or more than 1.7 lb/cu. ft. (27 kg/cu. m), thermal resistivity of 4 deg F x h x sq. ft./Btu x in. at 75 deg F (27.7 K x m/W at 24 deg C).
2. Add paragraph 1.2 E. to read as follows:
  - E. Foil-Faced, Glass-Fiber Board Insulation: ASTM C 612, Type IA; faced on one side with foil-scrim-kraft or foil-scrim-polyethylene vapor retarder, with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84.
    1. Nominal density of 3 lb/cu. ft. (48 kg/cu. m), thermal resistivity of 4.3 deg F x h x sq. ft./Btu x in. at 75 deg F (29.8 K x m/W at 24 deg C).
3. Add paragraph 2.2 D. to read as follows:
  - D. Foil-Faced, Mineral-Wool Board Insulation: ASTM C 612; faced on one side with foil-scrim or foil-scrim-polyethylene vapor retarder; with maximum flame-spread and smoke-developed indexes of 25 and 5, respectively, per ASTM E 84.
    1. Nominal density of not less than 1.5 lb/cu. ft. (24 kg/cu. m) or more than 1.7 lb/cu. ft. (27 kg/cu. m), thermal resistivity of 4 deg F x h x sq. ft./Btu x in. at 75 deg F (27.7 K x m/W at 24 deg C).

### In Book 3A, Technical Specification, SECTION 07211 "Foamed-In-Place Insulation",

1. Delete paragraph 2.1 A. 1.
2. Revise paragraph 2.2 A.1. to read as follows:
  1. Spray applied Closed-Cell Polyurethane Foam Insulation: ASTM C 1029, Type II, completely free of CFC, HCFC and formaldehyde free, 2 pound density blanket that adhere to contact surfaces having the following in-place properties:
    - a. Thermal resistance (R-Value), ASTM C-518; aged 6.6 BTU in./hr. sq. ft. °F per inch not subject to loss due to air infiltration.
    - b. Density (ASTM D 1622): 2.0 lb/cf min.
    - c. Off Gassing Test (VOC Emissions) (CGSB 51.23-92): Pass (no toxic vapor).
    - d. Surface Burning Characteristics: ASTM E-84 Class I
      1. Flame Spread - less than 25

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2. Smoke developed - less than 400
- e. Corrosion: No-corrosion when in contact with steel under 85% relative humidity.
- f. Bacterial/Fungal Growth: No growth; no material deterioration.

### **In Book 3A, Technical Specification, SECTION 07262 "Fluid Applied Air and Vapor Barrier",**

1. Add section 07262 "Fluid Applied Air and Vapor Barrier.
2. This section replaces 07160 "Bituminous Dampproofing".

### **In Book 3A, Technical Specification, SECTION 07562 "Thermoplastic Membrane Roofing",**

1. Add paragraph 2.9 to read as follows:

#### 2.9 FALL PROTECTION ROOF ANCHOR

A. Roof Anchor: Forged pad eye, quenched and tempered, HSS, hot-dipped galvanized after fabrication. Fill with polyurethane foam. Height: 16" above roof surface.

1. Products: Subject to compliance with requirements, provide the following product: Summit Anchor Company, Inc.; Model SM-4

### **In Book 3A, Technical Specification, SECTION 07710 "Manufactured Roof Specialties",**

1. Add paragraph 2.4.H. to read as follows:

H. Downspouts: Plain rectangular complete with mitered elbows, manufactured from the following exposed metal. Furnish with metal hangers, from same material as downspouts, and anchors.

1. Formed Aluminum: 0.063 inch (1.60 mm) thick.
2. Finish: match coping finish for exposed surfaces.

2. Add paragraph 2.4.I. to read as follows:

I. Parapet Scuppers: Manufactured with closure flange trim to exterior, 4-inch- (100-mm-) wide wall flanges to interior, and base extending 4 inches (100 mm) beyond cant or tapered strip into field of roof. Fasten gravel guard angles to base of scuppers.

1. Formed Aluminum: 0.032 inch (0.81 mm) thick.
2. Finish: match coping finish for exposed surfaces.

3. Add paragraph 2.4.J. to read as follows:

J. Conductor Heads: Manufactured conductor heads, each with flanged back and stiffened top edge and of dimensions and shape indicated, complete with outlet tube that nests into upper end of downspout, exterior flange trim, and built-in overflow.

1. Formed Aluminum: 0.032 inch (0.81 mm) thick.
2. Finish: match coping finish for exposed surfaces.

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### In Book 3A, Technical Specification, SECTION 08710 "Door Hardware",

1. Revise paragraph 3.7 HARDWARWE SCHEDULE to include the following sets:

#### Set # 007

- 1 Set Offset Pivot Assembly
- \* Intermediate Pivots
- 1 Saddle
- 1 Door Sweep
- 1 set Weatherstripping
- 1 Cylinder
- 1 Exit Device Type 1 Function 03
- 1 Closer
- 1 Outside Pull

#### Set # 904

- 2 Spring Hinges ANSI type K51071 (Match appearance of other hinges used on project)
- 1 Exit Device (Rim device w/ lever trim at exterior)

#### Set # 905

- \* Hinges – by gate manufacturer, refer to L2.2
- 1 Lock Set Function F-20 modified - less outside lever trim.  
Function: Key outside operates dead bolt and retracts latch bolt. Lever inside retracts latch bolt and dead bolt. Thumb turn inside operates dead bolt
- 1 Cylinder
- 1 Pull Plate
- 1 Closer

### In Book 3A, Technical Specification, SECTION 08920 "Glazed Aluminum Curtain Wall",

2. Revise paragraph 2.1 A. 1. as follows:
  1. Profiles and dimensions are based upon Wausau Windows and Wall Systems Superwall Series 08250. Provide exact profiles and dimensions (**2-1/2"** face dimension).

### In Book 3A, Technical Specification, SECTION 10200 "Louvers and Vents",

1. Add paragraph 1.4.B.1. to read as follows:
  1. Water Penetration: Maximum of 0.01 ounces per square foot (3.1 g/sm) of free area at an air flow of 1075 feet per minute (328 m/min) free area velocity when tested for 15 minutes.

### In Book 3A, Technical Specification, SECTION 10350 "Flagpoles",

1. Revise paragraph 2.3 A. to read as follows:
  - A. External Halyard Light Fixture: Provide integral halyard light fixture, 359° external revolving truck, with wire equal to length of pole plus 10-feet.
    1. Refer to electrical drawings for specified fixture.

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2. Add paragraph 3.2 D. to read as follows:
  - D. Integral External Halyard Light Installation: Install external halyard light fixture at top of flag pole, make connection to electrical and adjust lighting.

**In Book 3A, Technical Specification, SECTION 10425a “Message Schedule – First Floor”,**

1. Add to schedule the following:

<b>Sign Location</b>	<b>Qty.</b>	<b>Sign Type</b>	<b>Side</b>	<b>Message</b>	<b>Remarks</b>
At each toilet and urinal	10	25		THIS FIXTURE IS FLUSHED WITH HARVESTED RAINWATER. NOT SAFE FOR DRINKING.	Place one sign at each toilet and urinal. Mounting height and location as directed by architect in field. Paint stenciled onto wall; mounting height and location as directed by architect in field. Sign Dimensions, Letters and Graphics to be same as Sign 25; yellow letters w/ black background.
At each Detention Toilet.	21	10A (Sim.)		THIS FIXTURE IS FLUSHED WITH HARVESTED RAINWATER. NOT SAFE FOR DRINKING.	

**In Book 3A, Technical Specification, SECTION 10425b “Message Schedule – Second Floor”,**

1. Add to schedule the following:

<b>Sign Location</b>	<b>Qty.</b>	<b>Sign Type</b>	<b>Side</b>	<b>Message</b>	<b>Remarks</b>
At each toilet and urinal	18	25		THIS FIXTURE IS FLUSHED WITH HARVESTED RAINWATER. NOT SAFE FOR DRINKING.	Place one sign at each toilet and urinal. Mounting height and location as directed by architect in field.

**In Book 3A, Technical Specification, SECTION 10425d “Interior and Exterior Signage”,**

1. Add Sign Type 25 per ASK.39 dated 07/07/10 attached to this Addendum.

**In Book 3A, Technical Specification, SECTION 10505 “Metal Lockers”,**

1. Add paragraph 2.2.C to read as follows:
  - C. Accessible Signage: Provide international accessibility symbol decal for all accessible lockers, approximate size 2-inches by 2-inches.

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### In Book 3A, Technical Specification, SECTION 11192 "Electronic Security Systems",

1. Revise paragraph 2.2.D.6 to read as follows:
  6. Monitor: 20" LCD Touch Screen

### In Book 3B, Technical Specification, SECTION 15010 "General Provisions for Mechanical Work",

1. Delete paragraph 1.5.C.
3. Insert 1.18 COMMISSIONING to read:
  - A. Section 01810 requires the engagement of a Commissioning Agent to document the completion of the Electronic Security, Elevators, Mechanical, Electrical and Telecommunications Systems for the project. Comply with the requirements of Section 01810 regarding the roles of the Commissioning Team.
  - B. Comply with the requirements of Section 01810 for the commissioning of the various building systems.

### In Book 3B, Technical Specification, SECTION 15100 "Valves", included herein – replace this specification in its entirety with section 15100 dated July 2, 2010.

1. Add paragraph 2.8: Y-Strainers

### In Book 3B, Technical Specification, SECTION 15183 "Refrigerant Piping",

1. This is a new specification, included herein, to be inserted into Book 3B.

### In Book 3B, Technical Specification, SECTION 15250 "Mechanical Insulation",

1. Paragraph 1.2.A: add 15. Geothermal Piping (Ground Source)
2. Revise Paragraph 3.16 to read as follows:

**"INTERIOR CHILLED WATER AND GEOTHERMAL WATER EXPOSED INCLUDING INSIDE VAULT (EXCEPT IN MECHANICAL ROOMS, SEE 3.10b) AND CONCEALED"**
3. Paragraph 3.16, change to read: "INTERIOR CHILLED WATER, **REFRIGERANT**, AND GEOTHERMAL..."
4. Paragraph 3.21, change to read: "EXTERIOR **REFRIGERANT**";
5. Paragraph 3.21, change table to read: **Flexible Elastomeric – ¾" – No – No**

### In Book 3B, Technical Specification, SECTION 15415 "Rainwater Harvesting", included herein – replace this specification in its entirety with section 15415 dated July 2, 2010.

1. Delete Paragraph 3.1 VORTEX FILTER
2. Delete Paragraph 3.7 ACTUATED VALVES
3. Delete Paragraph 3.8 VORTEX FILTER CDS SYSTEM

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4. 3.10.A, added sentence at end: "*Include a sign reading "Non-Potable Water"*."
5. Add Paragraph 3.B & 3.C: Warranty

### **In Book 3B, Technical Specification, SECTION 15557 "Condensing Boilers", included herein – replace this specification in its entirety**

1. Revise Paragraph 2.1 Manufacturers.
2. Updates to Manufactured Units Boiler descriptions.

### **In Book 3B, Technical Specification, SECTION 15629 "Water to Water Heat Pump",**

1. Add Paragraph ACCESSORIES 2.2.G to read:
  4. Motorized control valves, balancing valves, and actuators. Refer to detail 9 on drawing M5.3 for system trim to be included.

### **In Book 3B, Technical Specification, SECTION 15747 "Ground Heat Exchanger (GHEX) Horizontal Piping Design", included herein – replace this specification in its entirety with section 15747 dated July 2, 2010.**

1. Added Geo Thermal

### **In Book 3B, Technical Specification, SECTION 15950 "Test and Balance",**

1. Insert 1.2 COMMISSIONING to read:
  - A. Section 01810 requires the engagement of a Commissioning Agent to document the completion of the Electronic Security, Elevators, Mechanical, Electrical and Telecommunications Systems for the project. Comply with the requirements of Section 01810 regarding the roles of the Commissioning Team.
  - B. Comply with the requirements of Section 01810 for the commissioning of the various building systems.

### **In Book 3B, Technical Specification, SECTION 16010 "Basic Electrical Requirements",**

1. Insert 1.4 COMMISSIONING to read:
  - A. Section 01810 requires the engagement of a Commissioning Agent to document the completion of the Electronic Security, Elevators, Mechanical, Electrical and Telecommunications Systems for the project. Comply with the requirements of Section 01810 regarding the roles of the Commissioning Team.
  - B. Comply with the requirements of Section 01810 for the commissioning of the various building systems.

### **In Book 3B, Technical Specification, SECTION 16721 "Alarm and Detection Systems", included herein – replace this section in its entirety**

1. Revise paragraph 3.6 to read as follows:

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- B. Provide full maintenance service for 2 years from date of substantial completion. Warranty shall extend 2 years from date of substantial completion. Extended maintenance to include 24/7 emergency call-back service with 2 hour or less response time.

### **In Book 3B, Technical Specification, SECTION 17000 "Communications General Requiements",**

- 1. Insert 1.3 COMMISSIONING to read:
  - A. Section 01810 requires the engagement of a Commissioning Agent to document the completion of the Electronic Security, Elevators, Mechanical, Electrical and Telecommunications Systems for the project. Comply with the requirements of Section 01810 regarding the roles of the Commissioning Team.
  - B. Comply with the requirements of Section 01810 for the commissioning of the various building systems.

### **In Book 3B, Technical Specification, SECTION 17115a "Summary of Work", included herein – replace this section in its entirety with section 17115a dated July 2, 2010.**

- 1. Remove all references to Co-Gen system.

### **In Book 3B, Technical Specification, SECTION 17750 "Radio Equipment" included herein – replace this section in its entirety with section 17750 dated July 2, 2010.**

- 1. Replace this Section in its entirety (attached herein).

### **In Book 3B, Technical Specification, SECTION 17820 "Commissioning of Integrated Systems",**

- 1. Insert 1.16 COMMISSIONING to read:
  - A. Section 01810 requires the engagement of a Commissioning Agent to document the completion of the Electronic Security, Elevators, Mechanical, Electrical and Telecommunications Systems for the project. Comply with the requirements of Section 01810 regarding the roles of the Commissioning Team.
  - B. Comply with the requirements of Section 01810 for the commissioning of the various building systems.

### **In Book 3B, Technical Specification, SECTION 17830 "Integrated Automation Materials, I/O Devices, and Sensors", included herein – replace this section in its entirety with section 17830 dated July 2, 2010.**

- 1. Add paragraph 2.13 Chlorine Sensor information.
- 2. Delete Ultrasonic Flow Meter
- 3. Delete Insertion Type Turbine Meter
- 4. Delete Vortex Shedding Flow Meter
- 5. Delete Venturi Flow Meter

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### In Book 3B, Technical Specification, SECTION 17950 "Testing, Adjusting, and Balancing Requirements",

1. Insert 1.3 COMMISSIONING to read:
  - A. Section 01810 requires the engagement of a Commissioning Agent to document the completion of the Electronic Security, Elevators, Mechanical, Electrical and Telecommunications Systems for the project. Comply with the requirements of Section 01810 regarding the roles of the Commissioning Team.
  - B. Comply with the requirements of Section 01810 for the commissioning of the various building systems.

### DRAWINGS:

1. SITE PREP SHEET C1.0 "Site Prep Demolition Plan"
  1. Sheet provided for reference "site prep scope of work" completed under separate contract.
2. SITE PREP SHEET AS.0 "Existing Sub-Grade Obstruction Plan"
  1. Sheet provided for reference "site prep scope of work" completed under separate contract.
3. SITE PREP SHEET 1 "Excavation and Site Preparation As-Built Drawing of Record"
  1. Sheet provided for reference "site prep scope of work" completed under separate contract.
4. SITE PREP SHEET 1 "Final Ground Elevations As-Built Drawing of Record"
  1. Sheet provided for reference "site prep scope of work" completed under separate contract.
5. SHEET ENV.1 "Environmental Conditions"
  1. New sheet added to drawing set
6. SHEET C1.1 "Site Demolition Plan"
  1. Refer to CSK-01 for changes to Notes #12, #13, and #15.
7. SHEET C4.0 "Site Utility Plan"
  1. Replace sheet with NEW sheet C4.0 dated 7/02/10.
  2. This drawing reflects the changes described in detail below for drawing C4.1.
  3. Notes #16, #17, and #19 have changed.
8. SHEET C4.1 "Cistern Layout and Details"
  1. Replace sheet with NEW sheet C4.1 dated 07/02/10
  2. Structure WH CB-16 has been removed from the system.
  3. Structure WH MH-15 with Vortex Filter, has been replaced by WH CDS-15. This is a "Continuous Deflection Separation Structure provided by Contech Construction Products.
  4. The quantity, inverts and layout of piping for the Rain Water Harvesting system has changed to accommodate the new system.
  5. The inverts of the two Atlantis tanks have changed reducing excavation required.

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6. Additional liner on the 10,000 gal tank has been removed.
9. SHEET L1.1 "Landscape Plan"
  1. Revise Environmental Notes #11, #12, and #14 per ASK.53, copy attached.
10. SHEET L5.1 "Irrigation Plan"
  1. Quick Couple valve revised to Tee w/ Plug. Quantity and location revised per ASK.33, copy attached.
  2. Legend revised to change Quick Couple Valve to Tee w/ Plug; quantity indicated, per ASK.34, copy attached.
11. SHEET AS4.1 "Enlarged Plans, Sections, and Details"
  1. Revise Detail 6 to include electrical conduit per ASK.20, copy attached
12. SHEET A1.2 "Second Floor Plan"
  1. Added key note for ADA locker benches at Sgt/Lt Female Lockers 225, Sgt/Lt Male Lockers 228, Male Lockers 230, and Female Lockers 239. Refer to ASK.54, copy attached.
13. SHEET A1.3 "Roof Plan"
  1. Downspout and splash block indicated on roof at Light Monitors per ASK.35, copy attached.
  2. Plan Detail @ Light Monitor added per ASK.36, copy attached.
14. SHEET 2.2A "Reflected Ceiling Plan"
  1. Revise details 2 and 3 to include transfer grilles at light monitor ceiling per ASK.05, copy attached.
15. SHEET A3.1 "Exterior Elevations"
  1. Architectural Louver size and locations as per ASK.37, copy attached.
16. SHEETS A5.1 – A6.4 (Inclusive) "Wall Sections", "Plan Details", "Exterior Details"
  1. Key Notes revised as per ASK.25, copy attached. Notes coordinate with added specification section 07262 "Fluid Applied Air and Vapor Barrier" dated July 2, 2010; included herein.
17. SHEET A5.5 "Wall Sections"
  1. Detail 3 revised to coordinate architectural louver per ASK.38, copy attached.
18. SHEET A6.1 "Plan Details"
  1. Detail 2, revise column cover detail per ASK.26, copy attached.

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2. Detail 6, revise detail to provide self-adhering air & water membrane in lieu of ice & water shield per ASK.27, copy attached.
19. SHEET A6.2A "Plan Details"
  1. Detail 6, revise column cover detail per ASK.28, copy attached.
20. SHEET A6.2C "Plan Details"
  1. Detail 2, revise column cover detail per ASK.29 and ASK.30, copy attached.
  2. Detail 3, revise column cover detail per ASK.31, copy attached.
  3. Detail 4, provide weeps as indicated per ASK.32, copy attached.
21. SHEET A6.3 "Exterior Details"
  1. Detail 1, Include insulation at deck edge and parapet wall as indicated per ASK.40, copy attached.
22. SHEET A6.4 "Exterior Details"
  1. Detail 2, revise framing and soffit detail per ASK.41, copy attached.
23. SHEET A6.5 "Exterior Details"
  1. Detail 1, revise framing and enclosure at motorized shade enclosure per ASK.42, copy attached.
24. SHEET A6.8 "Exterior Details"
  1. Detail 11, Detail coordinates with revision to slab edge condition per ASK.43, copy attached.
25. SHEET A6.9 "Exterior Details"
  1. Detail 2, Extend insulation past deck edge per ASK.44, copy attached.
26. SHEET A6.14 "Exterior Details"
  1. Revise Detail 9 "Roof Anchor" per ASK.52, copy attached.
  2. Revise Detail 10 to include concrete curb at deck, steel framing, conductor head and downspout per ASK.50, copy attached.
  3. Revise Detail 11 to include downspout and splash block per ASK.51, copy attached.
  4. Add Detail 10a to include typical section detail at Light Monitor Roof Deck per ASK.56, copy attached.
27. SHEET A7.2 "Stair Plans/Sections"
  1. Detail 1, Revise soffit detail and sprinkler head type per ASK.10, copy attached.
28. SHEET A10.5 "Interior Plans, Elevations & Details"
  1. Revise Detail 17 to indicate ADA Locker Bench dimensions per ASK.55, copy attached.
  2. Add Detail 17a to indicate floor mounted ADA Locker Bench per ASK.55, copy attached.

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29. SHEET A12.1 "Door Schedule"
  1. Revise frame type at doors indicated per ASK.06, copy attached.
  2. Revise Door Hardware Sets indicated per ASK.06, copy attached.
30. SHEET A12.2 "Door Types/ Door Details"
  1. Provide door frame F25 as indicated per ASK.07, copy attached.
31. SHEET A12.3 "Window Types"
  1. Detail 7, character spacing in text revised to clarify what was shown on the bid documents was the same glass type as indicated per ASK.45, copy attached.
32. SHEETS A13.1 and A13.2 "Finish Schedules, Plans and Details"
  1. Note 20 revised to include paint color and finish for decorative bollards and entrance canopy. See ASK.46 included herein.
  2. Note 31 added to include paint color for non-potable water piping and insulation. See ASK.46 included herein.
  3. Floor Finish indicated for Male 133 and Female 131. See ASK.47, copy attached.
  4. Reference detail note at Male 109 revised. See ASK.47, copy attached.
  5. Drawing Scale indicated correctly. See ASK.47, copy attached.
  6. Reference detail note at Toilet Room 205 revised. See ASK.48, copy attached.
  7. Sheet Detail Number indicated correctly. See ASK.48, copy attached.
33. SHEET A15.1 "Toilet Room Plans, Elevations, & Details"
  1. Details 11 and 12, detail reference note revised. See ASK.49, copy attached.
  2. Detail 13, detail reference note revised. See ASK.49, copy attached.
34. SHEET S2.4 "Foundation Details"
  1. Revise Detail 1 to clarify rebar spacing and size per SSK-13, copy attached.
  2. Revise Detail 2 to clarify rebar spacing and size per SSK-14, copy attached.
  3. Revise Detail 7 to indicate Hot Dip Galvanized HSS in lieu of Brush Finished Stainless Steel HSS per SSK-10, copy attached.
  4. Revise Detail 7 Section A to indicate ¼" Hot Dip Galvanized Steel PL and specified anchors per SK-10, copy attached.
35. SHEET S1.3 "Roof Framing Plan"
  1. Revise Light Monitor Roof Framing per SSK-11, copy attached.
36. SHEET S4.5 "Framing Sections and Details"
  1. Revise Details 1 and 2 to include additional Steel Framing and Concrete curb per SSK-12, Copy attached.
37. SHEET MS1.1, "Mechanical Site Plan"
  1. Conduit pipe-in-pipe length and construction clarified at geothermal/storm pipe crossing.

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2. CCD elevation of typical borehole revised.
  3. CCD of main geothermal S&R pipe at foundation wall clarified.
  4. Environmental notes added.
  5. Ground Loop notes added and revised.
  6. General notes added.
  7. Pipe routing clarified with note.
  8. Piping detail for connection of V-1 and V-2 within V-3. Three sets of pipes manifold together before entering building. Detail added for clarification.
  9. Pipe sizes and bore lengths changed
38. SHEET MS1.2, "Mechanical Site Plan Details/Notes"
1. Detail 4 added in Addendum 1 removed. Details renumbered.
  2. Detail 2, insulation added to pipe inside vault. Revised from Addendum 1.
  3. Detail 4, sump pump piping clarified inside and outside of vault.
  4. Detail 5, balancing valve and pete's plug added to detail.
  5. Detail 6, Second manhole added, section markers clarified, note added.
39. SHEET M0.0, "Mechanical Notes, Abbreviations, and Symbols"
1. Chlorine sensor symbol added.
40. SHEET M1.1, "Mechanical Ductwork – First Floor Plan"
1. Temperature sensor (shared sensor with FCU-1,2) and NO2 sensor added for control of EF-22.
  2. Return grilles on FCU-1,2 revised to filter return grille (R8).
  3. Square ceiling diffusers revised to linear slot diffusers at perimeter rooms to ensure proper air distribution in both summer and winter conditions.
    - Tactical Gang Room 187
    - Lieutenant Office Room 189
    - Warming/Cooling Room 194
    - Sergeant's Office Room 119
    - Community Policing 116
  4. AC 1-1 supply/return duct routing and sleeves in exterior wall clarified.
  5. EF-25 added for Janitor's Exhaust Room 127 to maintain acceptable levels of chlorine in space. All ductwork associated with EF-25 shall be stainless steel. Supply grille in Room 127 shall be stainless steel. Chlorine sensor added at low level. Exhaust in Room 127 moved from high level to low level.
  6. L-12 revised for addition CFM being exhausted.
  7. AFMS-2 relocated in AHU-1 return air duct.
  8. Mounting height of L-2 and L-8 clarified.
  9. Generator Exhaust flue construction clarified.

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10. Differential Pressure sensor added in Public Lobby.
  11. Keynote 3 revised.
41. SHEET M1.2, "Mechanical Ductwork – Second Floor Plan"
1. One-inch architectural transfer slots added at ceiling of light monitor in rooms 228, 225, 239. Refer to Architectural drawings for quantity, length, and location.
  2. Two slot diffusers removed from Workout Room 243. CFM revised for remaining slots.
42. SHEET M2.1, "Mechanical Piping – First Floor Plan"
1. Condensate containment and routing for HP-7 and AC 1-1 clarified.
  2. Incoming geothermal supply/return pipe size revised from 6" dia to 8" dia.
  3. Detail 3 added, Incoming Geothermal Piping detail.
  4. Incoming natural gas pipe size and layout revised in Standby Generator Rm.
  5. Detail 2 revised, New Gas Meter Piping diagram.
43. SHEET M2.2, "Mechanical Piping – Second Floor Plan"
1. HP-6 and AC2-1 condensate clarified.
44. SHEET M4.1, "Mechanical Flow Diagrams"
1. Clarification of condensate routing for all equipment added.
  2. Notes 1,2,8,10 revised.
  3. Isolations valves on main branches added.
  4. Additional pipe size tags added for clarification.
  5. Piping configuration of hot water and chilled water buffer tanks revised.
  6. Piping configuration of Boiler revised.
  7. Hot water, Chilled Water, Ground Water bypass piping enhanced.
  8. Pump 6 removed.
  9. Flow Meters added to hot water, chilled water, ground water loops.
  10. Incoming geothermal piping detail/layout revised for clarification.
  11. Ground Water, Chilled Water and Hot Water bypass piping layout and location revised and coordinated with controls.
45. SHEET M5.1, "Mechanical Details and Diagrams"
1. Detail 4, note revised to clarify acceptable pressure drop and multi cartridge type filter.
  2. Detail 7, flexible piping connections removed.
  3. Detail 8, flexible piping connections removed.
46. SHEET M5.3, "Mechanical Details and Diagrams"
1. Detail 5, size of fuel oil spill containment revised.
  2. Detail 6, hot water S&R isolation valves removed between DP sensor and hot water coil.

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3. Detail 7, reference to Detail 5 on M5.3 added. Fuel oil vent size revised.
  4. Detail 9, Water-Water Heat Pump detail revised.
  5. Detail 10, BT-1 incoming pipe diameter revised
47. SHEET M5.6, "Mechanical Details and Diagrams"
1. Detail 3, note revised to ensure 15ft separation between exhaust air location and outdoor air intake location.
  2. Detail 5, boiler exhaust flue construction revised.
  3. Detail 6, Domestic Hot water preheat detail added.
48. SHEET M5.4, "Mechanical Details and Diagrams"
1. Detail 9, Water-Air Heat Pump detail added
49. SHEET M5.5, "Mechanical Details and Diagrams"
1. Detail 3, "Fan Coil Duct Detail" revised to "Fan Coil/Heat Pump Duct Detail"
50. SHEET M5.6, "Mechanical Details and Diagrams"
1. Detail 3, note revised to ensure 15ft separation between exhaust air location and outdoor air intake location.
  2. Detail 4, flexible duct connection added.
  3. Detail 5, boiler exhaust flue construction revised.
  4. Detail 6, Domestic Hot water preheat detail added.
  5. Detail 7, Fin Tube detail added.
51. SHEET M7.1, "Mechanical Schedules"
1. Pump Schedule – P-6 removed, P-1,2,3,4 selections revised.
  2. Boiler Schedule – Pressure Drop and Amps required revised for selection.
  3. Water-Water Heat Pump Schedule – water flow rates revised.
  4. Expansion Tank Schedule – ET-1,2,3 selections revised.
52. SHEET M7.2, "Mechanical Schedules"
1. Flow Meter schedule added.
  2. Fan Coil Unit Schedule – ECM motors specified for FCU-1,2
  3. Air Separator Schedule – AS-4 selection revised
53. SHEET M7.3, "Mechanical Schedules"
1. Fan Schedule – EF-8 CFM reduced, EF-25 added. EF-24 motorized damper removed. EF-22,23 motorized dampers added.
  2. Louver Schedule – L-12 design criteria revised (increased)
  3. Register and Diffuser Schedule – R8 filter return added.

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54. SHEET M7.4, "Mechanical Schedules"
1. Split system refrigerant piping detail revised.
55. SHEET M8.1, "Mechanical Enlarged Plan"
- DUCTWORK
1. CO sensor deleted – 1 of 2.
  2. Duct size tags added for clarification.
  3. AFMS – 1 and 4 moved to inlet of supply fans in AHU-1,2.
  4. Domestic Water Heater and Boiler flue construction clarified.
  5. Turning vanes added to exhaust air plenum at L-10.
- PIPING
6. Pump mounting height clarified.
  7. Pipe routing revised to match M4.1 mechanical flow diagram.
  8. Flow meters tagged and scheduled.
  9. Plumbing equipment added in Color 8 for reference.
  10. Expansion Tank ET-3 selections revised to ET-3.1 and ET-3.2
  11. Geothermal/Chilled Water/Hot Water bypass locations clarified.
56. SHEET IAS1.01, "First Floor IAS Plan"
1. Sallyport Room 175 - NO2 sensor added to EF-22. FCU-1,2 temperature sensor shared with EF-22.
  2. Water Meter Room 112 – radiant manifold and controls valves moved to match M2.1.
  3. EF-25 and chlorine sensor added.
57. SHEET IAS1.03, "Roof IAS Plan"
1. Motorized Dampers added to EF-2,3,4,8,9,10,11,15,17,18,20,21 and Intake Hood IH-2.
  2. Domestic Water Heater and boiler exhaust flue construction clarified.
58. SHEET IAS4.01, "Ground Loop Details & Points List"
1. Ground Loop Water System layout revised – differential pressure and auto flow valve added at HP-7, FM-1 tagged.
  2. Control sequence revised to maintain differential pressure at HP-7 (end of loop) in addition to differential pressure across main array of heat pumps.
  3. HP-7 differential pressure sensor added to points list.
59. SHEET IAS4.02, "Hot Water Details & Points List"
1. Hot Water system layout revised – bypass moved downstream of pumps, chilled water S&R temperature sensors added to/from heat pumps, intermediate hot water supply side modulating control valves added, P-6 removed, domestic hot water temperature sensors added for HX-1 control, P-10 added.

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2. Sequence of operation revised to maintain discharge water temperature proportional to season, scope added for HX-1 domestic hot water preheat control.
  3. Points List – #17,18 CHW entering water temp/leaving water temp added, #65,66,67,68 boiler pump (P-10) sensors/controls added, #90,91,92,93 HX-1 sensors/controls added.
60. SHEET IAS4.03 “Chilled Water Details & Points List”
1. Chilled Water system layout revised – bypass moved downstream of pumps, hot water S&R temperature sensors added to/from heat pumps, intermediate chilled water supply side modulating control valves added
  2. Sequence of operation revised
  3. Points List – #13,14 HW entering water temp/leaving water temp added, #6 load side isolation valves between modules added, #73 chilled water RWT, LOAD and bypass sensor removed.
61. SHEET IAS4.04 “AHU-1,2 Details & Points List”
1. AHU-1,2 System layout revised – airflow measuring station moved to inlet of supply fan.
62. SHEET IAS4.06 “Fan Coil Units Details & Points List”
1. FCU-1,2 and EF-22 System Layout revised to include NO2 and Temperature control for EF-22. EF-22 added to detail with FCU-1,2.
  2. Sequence of Operations updated to reflect additional controls to maintain space temperature and NO2 levels in addition to carbon monoxide.
  3. Points List – #9,10 NO2 and Temperature sensor added, #7,8 EF-22 control points added.
  4. EF-22,23 revised to include motorized damper instead of back draft damper in detail and sequence of operation.
63. SHEET IAS4.08 “Exhaust Fans Details & Points List”
1. EF-12,17, 18 system layout revised to show motorized damper on EF-17 and 18.
  2. Sequence revised to reflect addition of motorized damper.
64. SHEET IAS4.09 “Exhaust Fans Details & Points List”
1. EF-2,3,4,8,9,11,20,21,15 system layout diagram revised to include motorized damper on fan.
  2. Sequence revised for exhaust fans listed above to reflect addition of motorized damper.
  3. EF-25 system layout, points list and sequence added.
65. SHEET ES1.1, “Electrical Site Plan”
1. Provided two (2) 2” conduit and routing for GPS receiver near Telecom Rm 199 (roof level).
  2. Added Keyed Note 26 describing GPS receiver.
  3. Revised Environmental Notes 2, 3, and 5.

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66. SHEET E1.1, "Electrical Lighting Plan- First Floor"
1. Added new keyed note 21 for flag pole lighting.
67. SHEET E2.1, "Electrical Power and Systems Plan First Floor"
1. Telecom Rm 199: Located two (2) additional panelboards "1SL3A" and "1SL3B" and revised and modified junction Box and circuiting for Motorola telecom racks.
  2. Added ground bar "TMGB-2" outside Telecommunication Room 199.
  3. Added new exhaust fan EF-25.
  4. Removed pump P-6.
68. SHEET E2.4, "Electrical Lightning Protection Plan"
1. Indicated ground ring around monopole tower and ground rods.
  2. Added new Sheet Note 11.
  3. Provided new air terminals for HVAC equipment above Telecom Rm 224.
69. SHEET E4.1, "Electrical Single-Line Diagram"
1. Added two (2) new panelboards "1SL3A" and "1SL3B" subfed from "1SL3" and indicated new feeders size.
  2. Modified feeder sizes before and after both 50kVA UPS's.
  3. Revised circuit breakers sizes in panel 2SHD1 for mechanical changes made on pumps P-1, P-2, P-3 and P-4.
  4. Revised feeder sizes for mechanical changes made on pumps P-1, P-2, P-3 and P-4
70. SHEET E5.3, "Electrical Details (Lightning Protection)"
1. Revised and modified "Monopole Kit Grounding Detail" and "Monopole Tower Grounding" Detail.
  2. Added telecommunication ground bus bar "TMGB-2" outside Telecommunication Room 199.
71. SHEET E6.3, "Electrical Motor/Equipment and Wiring Schedule"
1. Added exhaust fan EF-25.
  2. Removed pump P-6.
  3. Revised motor loads for mechanical changes made on pumps P-1, P-2, P-3 and P-4.
  4. Revised local disconnect sizes for pumps P-3 and P-4.
72. SHEET E6.4, "Electrical Panelboard Schedules"
1. Revised panelboard schedule "1SL3".
  2. Revised panelboard schedule "1L2A".
73. SHEET E6.6, "Electrical Panelboard Schedules"
1. New drawing sheet to include new panelboard schedules "1SL3A" and "1SL3B".

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74. SHEET TE5.5, "Telecommunication Details"
1. New drawing sheet to include Motorola Rack Elevation Telecom 199.
75. SHEET TE6.1, "Telecommunication Enlarged Plans"
1. Revised and modified detail 1/TE6.1 "Telecommunication Room 199" to show Motorola radio racks. Total of four (4)
76. SHEET P1.0 "Plumbing Underground First Floor Plan"
1. Added waste and vent piping for FS-1 in Janitor Closet 127 – refer to sketch PSK-010.
  2. Drawing notes 8, 9, and 11 revised for environmental compliance for soils, and construction waste material – refer to sketch PSK-17.
77. SHEET P1.1A "Plumbing Domestic Water First Floor Plan"
1. Added water meter and pressure regulating valve (PRV-1) on non-potable water (NPW) supply to irrigation system in Room 188 – refer to sketch PSK-011.
78. SHEET P3.2 "Plumbing Riser Diagrams"
1. Domestic Water Riser Diagram 1: Hersey Meter TruRead remote display to rainwater harvesting sub-meter. Added PRV-1 to Room 188 NPW supply – refer to sketch PSK-012.
79. SHEET P4.2 "Plumbing Details"
1. Detail 1/Condensing Domestic Water Heater Detail: Rerouted point of connection of domestic hot water system return to be at heat exchanger HX-1 in lieu of connecting at domestic water heaters – refer to sketch PSK-013.
80. SHEET P4.3 "Plumbing Details"
1. Detail 1/Rainwater Harvesting Diagram: revised note from "12" to storm sewer (debris) to 12" to infiltration cistern" – refer to sketch PSK-014.
  2. Added Detail 5, Domestic Hot Water Preheat Detail – refer to sketch PSK-016.
81. SHEET P5.1 "Plumbing Schedules/Plumbing Fixture Schedule"
1. Added Note 1 for etching of stainless steel fixtures WC/L-1,2,3 with the following: "This fixture is flushed with harvested rainwater. Not safe for drinking." – refer to sketch PSK-017.
82. SHEET P6.1 "Plumbing Enlarged Plans"
1. Plan 1-Meter/Storage Room: added PRV-1 on 2" NPW supply. Added two (2) PRV-2 on two (2), 1" NPW supplies. – refer to sketch PSK-015.
  2. Plan 2-Fire Pump Room Layout: added drain FS-1 in Janitor Closet 127 – refer to sketch PSK-015.
83. SHEET FP1.1 "Fire Protection First Floor Plan"
1. Changed sidewall sprinkler head in north stair to a concealed sprinkler to accommodate Architectural change – refer to sketch FPSK-1.

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### QUESTIONS & ANSWERS:

- A. QUESTION: Specification section page #01996a-7 states that division #16721 Alarm and Detection systems of Fire Alarm System requires 24/7 and/or two year maintenance, but spec. item #16721.3.6A states to make the Maintenance proposal available to the owner, which contracts what spec. section #01996 states. PLEASE EXPLICITLY STATE WHAT MAINTENANCE IS TO BE PART OF THE division #16721's FIRE ALARM BID, especially since the specified Simplex, Notifier, and Cerberus, do not usually have field labor for maintenance purposes.
1. **RESPONSE:** Specification 16721 will require full maintenance service for 2-years from substantial completion. Extended maintenance shall include 24/7 emergency call-back service with 2-hour or less response time. Refer to Addendum No. 2 for changes to Specification 16721.
- B. QUESTION: Specification Item #16415.2.1 specifies transfer switches only to be made by 3 manufactures (Cummins, Caterpillar, and Emerson), but these transfer switches are electrically connected to division #16231's sole source Generac generator. I find it difficult to believe that the 3 noted ATS firms, who all make generators as well, will just quote transfer switches for their sole, proprietary source competitor. Please issue a "fair play" specification for all.
1. **RESPONSE:** It is perfectly acceptable (and standard) for these transfer switch manufacturers to be interfaced to a competitors generator. The Generac generator is not part of a paralleling system, therefore, no paralleling equipment (i.e. switchgear, transfer switches) from same manufacturer is required. Furnish all transfer switches as indicated in division 16 specifications. Cummins, Caterpillar and Emerson do not make a bi-fuel generator of the size required for this project. Generac is the only manufacturer that manufacturers a generator of the size and type required for this project.
- C. QUESTION: Attached for your review are the product data sheets for our 1/8" decorative broadcast flooring and urethane sealer. We would like to either be added as a manufacturer (2.1 A) or identified as equal to the products manufactured for the PBC NEW 12TH DISTRICT POLICE STATION Contract 1514 per SECTION 09671 RESINOUS FLOORING SPECIFICATION.
1. **RESPONSE:** The recently completed prototypical police stations established a product standard for resinous flooring. One of the four specified products is required.
- D. QUESTION: Please find attached our formal request for your consideration of Kane Screens as a manufacturer of the acoustical ceiling specified in Section 11194 of the specification for the 12th District Police Station project. Also included is Kane's ceiling specification for your review. The specific Kane product we are requesting your approval is model #GCLGT
1. **RESPONSE:** The recently completed prototypical police stations established Trussbilt as the standard. Trussbilt acoustical steel security ceiling is required.
- E. QUESTION: Please find attached our formal request for your consideration of Dynamic Sports Construction, Inc as a manufacturer of the rubber weight room flooring specified in Section 09663 of the specification for the 12th District Police Station project.
1. **RESPONSE:** The recently completed prototypical police stations established a product standard for rubber weight room flooring. One of the three specified products is required

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- F. QUESTION: Please find attached our formal request for your consideration of Lincora Lockers as a manufacturer of the metal lockers specified in Section 10505 of the specification for the 12th District Police Station project.
1. **RESPONSE:** The recently completed prototypical police stations established a product standard for metal lockers. One of the five specified products is required.
- G. QUESTION: Please find attached our formal request for your consideration of George A. Keene as a manufacturer of detention equipment specified in Section 11190 & 11191 of the specification for the 12th District Police Station project.
1. **RESPONSE:** The recently completed prototypical police stations established a product standard for detention equipment. One of the specified products is required.
- H. QUESTION: Please find attached our formal request for your consideration of Vistawall as a manufacturer of aluminum windows and curtain wall specified in Sections 08520 & 08920 of the specification for the 12th District Police Station project.
1. **RESPONSE:** The recently completed prototypical police stations established a product standard for aluminum windows and the curtain wall. One of the specified products is required.
- I. QUESTION: Please find attached our formal request for your consideration of Lincora Lockers as a manufacturer of the metal lockers specified in Section 10505 of the specification for the 12th District Police Station project.
1. **RESPONSE:** The recently completed prototypical police stations established a product standard for metal lockers. One of the five specified products is required.
- J. QUESTION: Please confirm that only pre-approved contractors who attended the mandatory technical review meeting will be allowed to bid.
1. **RESPONSE:** Only the Pre-qualified Bidders who attended the Mandatory Technical Review held on June 22, 2010 will be eligible to bid. Of the twelve (12) Pre-Qualified firms only Ragnar Bensen and Wight Construction were not in attendance.
- K. QUESTION: Note 6 on S1.1 calls out an 8 x 8 x 2 drop cap. It refers to detail 11/S3.1 but there is no detail 11 on that page. Please provide this detail. Details 9 and 10 on S3.1 are also missing. Please provide these as well.
1. **RESPONSE:** Detail tag referenced is incorrect and the correct reference should be 4/S2.4. Details 9, 10 and 11 on sheet S3.1 do not exist.
- L. QUESTION: Per C4.1, layout shows ESVCP but section specifies DIP between MH-16 and 1,500 gal cistern. Please clarify. 2./ A10-5 has missing descriptions on details from 1 through 5. Please specify.
1. **RESPONSE:** Revisions to sheet C4.1 noted above. See new sheet C4.1 included herein. Details missing information were previously reissued in Addendum 1. Refer to ASK.02, ASK.03, and ASK.04 issued with Addendum 1.
- M. QUESTION: Per 3/A3.1, south elevation will receive limestone coping at half of the parapet wall. The rest of the parapet walls of the building will receive pre-finished aluminum coping. Please

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advise us whether having limestone coping at portion of the building parapet wall is the design intent.

1. **RESPONSE:** The design intent is for this area to receive pre-finished aluminum coping to match the rest of the parapet walls of the building.

N. QUESTION: Please provide the specification for roof anchors.

1. **RESPONSE:** Note revision to specification section 07562 "Thermoplastic Membrane Roofing" included herein.

O. QUESTION: Flex Membranes, the specified roofing manufacturer is recommending the use of Dens Deck Prime for the cover board in place of the foam glass board specified. Please advise whether this is acceptable.

1. **RESPONSE:** Please note paragraph 2.4.C in specification section 07562 "Thermoplastic Membrane Roofing" dated 6/30/10 and issued for Addendum 1.

P. QUESTION: Please provide as-built survey prepared by JOC contractor as mentioned on C1.1.

1. **RESPONSE:** The following as-built survey information prepared by JOC contractor is included herein: "Excavation and Site Preparation As-Built Drawing of Record" and "Final Ground Elevations As-Built Drawing of Record".

Q. QUESTION: Per Book 2 Section 13.10 Guarantees and Warranties Para 1, standard warranty is two (2) years. Please confirm whether this is the intent of PBC as there is Spec Section 01996 specifying (2) years as extended warranty.

1. **RESPONSE:** Book 2 Section 13.10 states a guarantee runs for the period of time stated in the "Contract Documents". Book 2 Section 13.10 also provides a 2 year warranty period "if no period is specified."

### Attachments:

#### Specification Sections

02815 "WaterHarvesting"

07262 "Fluid Applied Air and Vapor Barrier"

15100 "Valves"

15183 "Refrigerant Piping"

15415 "Rainwater Harvesting"

15557 "Condensing Boilers"

15747 "Ground Heat Exchanger (GHEX) Horizontal Piping Design"

16721 "Alarm and Detection Systems"

17115a "Summary of Work"

17750 "Radio Equipment"

17830 "Integrated Automation Materials, I/O Devices, and Sensors"

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### Drawings

SITE PREP SHEET C1.0 (For Reference Only)

SITE PREP SHEET AS.0 (For Reference Only)

SITE PREP SHEET 1 "Excavation and Site Preparation As-Built Drawing of Record" (For Reference Only)

SITE PREP SHEET 1 "Final Ground Elevations As-Built Drawing of Record" (For Reference Only)

SHEET ENV.1

SHEET C4.0

SHEET C4.1

CSK-01 dated 7/02/10

ASK.05 dated 6/21/10

ASK.06 dated 6/21/10

ASK.07 dated 6/21/10

ASK.10 dated 7/02/10

ASK.20 dated 7/02/10

ASK.25 dated 7/02/10

ASK.26 dated 7/02/10

ASK.27 dated 7/02/10

ASK.28 dated 7/02/10

ASK.29 dated 7/02/10

ASK.30 dated 7/02/10

ASK.31 dated 7/02/10

ASK.32 dated 7/02/10

ASK.33 dated 7/02/10

ASK.34 dated 7/02/10

ASK.35 dated 7/02/10

ASK.36 dated 7/02/10

ASK.37 dated 7/02/10

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ASK.38 dated 7/02/10

ASK.39 dated 7/07/10

ASK.40 dated 7/02/10

ASK.41 dated 7/02/10

ASK.42 dated 7/02/10

ASK.43 dated 7/02/10

ASK.44 dated 7/02/10

ASK.45 dated 7/02/10

ASK.46 dated 7/02/10

ASK.47 dated 7/02/10

ASK.48 dated 7/02/10

ASK.49 dated 7/02/10

ASK.50 dated 7/02/10

ASK.51 dated 7/02/10

ASK.52 dated 7/02/10

ASK.53 dated 7/02/10

ASK.54 dated 7/09/10

ASK.55 dated 7/09/10

ASK.56 dated 7/09/10

SSK-10 dated 7/09/10

SSK-11 dated 7/09/10

SSK-12 dated 7/09/10

SSK-13 dated 7/09/10

SSK-14 dated 7/09/10

SHEET MS1.1

SHEET MS1.2

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SHEET M0.0

SHEET M1.1

SHEET M2.1

SHEET M4.1

SHEET M5.1

SHEET M5.6

SHEET M7.1

SHEET M7.2

SHEET M7.3

SHEET M7.4

SHEET M8.1

SHEET IAS1.01

SHEET IAS1.03

SHEET IAS4.01

SHEET IAS4.02

SHEET IAS4.03

SHEET IAS4.04

SHEET IAS4.06

SHEET IAS4.08

SHEET IAS4.09

PSK-10 dated 7/02/10

PSK-11 dated 7/02/10

PSK-12 dated 7/02/10

PSK-13 dated 7/02/10

PSK-14 dated 7/02/10

PSK-15 dated 7/02/10

FPSK-1 dated 7/02/10

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SHEET ES1.1

SHEET E2.1

SHEET E2.4

SHEET E4.1

SHEET E5.3

SHEET E6.3

SHEET E6.4

SHEET E6.6

SHEET TE5.5

SHEET TE6.1

END OF ADDENDUM NO. 02

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