



**DESIGN AND CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242**

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**ADDENDUM NO. 1 TO PROJECT NO. 42646**

**CONSTRUCTION WORK, HVAC WORK, PLUMBING WORK, AND ELECTRICAL WORK  
REHABILITATE KITCHEN AND MESS HALL  
BUILDING NO. 21  
FISHKILL CORRECTIONAL FACILITY  
PROSPECT STREET  
BEACON, NY**

**October 21, 2015**

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**CONSTRUCTION WORK SPECIFICATION**

1. Refer to Specifications, Section 011000- SUMMARY OF THE WORK, page 011100-2, Paragraph 1.06A: Delete this Paragraph in its entirety.
2. Refer to Specifications, Section 013300- SUBMITTALS, Delete this section in its entirety, and replace with attached Section –SUBMITTALS (pages 013300-1 thru 013300-9).  
Note: This specification Section 013300 is common to all trades (C,H,P,E).
3. Refer to Specifications, Section 114102- PREFABRICATED WALK-IN REFRIGERATED BOXES, delete this Specification Section in its entirety and replace with the following Specification Section 114102- PREFABRICATED WALK-IN REFRIGERATED BOXES.
4. Refer to Specifications, Section 033000 CAST IN PLACE CONCRETE:
  - 1) Refer to Page 033000 – 2, Subparagraph 1.04 B.12.: Add the following:
    12. Lightweight Coarse Aggregates: Brand and manufacturer’s name.
  - 2) Refer to Page 033000 – 2, Subparagraph 1.04 B.13.: Add the following:
    13. Moisture Vapor Reduction Admixture: Brand and manufacturer’s name.
      - a. Product test reports performed by a qualified independent testing agency evidencing compliance of products with specified requirements of moisture vapor transmission based on comprehensive testing of current products.

- b. Manufacturer's certificate certifying admixture provided meets or exceeds specified requirements.
  - c. Sample moisture letter.
  - d. MSDS.
- 3) Refer to Page 033000 – 4, Subparagraph 2.01 H.3: Add the following:
  - 3. Add the following paragraph: "Aggregates for lightweight concrete shall meet the requirements of ASTM C 330, except that fine aggregate for lightweight concrete shall meet the requirements of ASTM C 33.
- 4) Refer to Page 033000 – 5, Subparagraph 2.01 O: Add the following:
  - O. Moisture Vapor Reduction Admixture (MVRA): Shall be non-toxic, liquid admixture that is specifically designed to have a natural reaction with pre-existing elements inside the concrete to eliminate the route of moisture vapor emission through the slab by restricting the integral capillary system. (Admixture used for the light weight concrete toppings.)
    - 1. Barrier-1 High Performance Concrete Admixture by Barrier One, Inc., 522 S. Hunt Club Blvd, #303, Apopka, FL 32703, (407) 374-0205.
    - 2. Vapor Lock 20/20 by Specialty Products Group, 6254 Skyway Road, PO Box 915, Smithville, ON, L0R 2A0, Canada, (877) 957-4626.
- 5) Refer to Page 033000 – 7, Subparagraph 2.02 H.: Add the following:
  - H. Lightweight concrete shall be air-entrained concrete having a minimum compressive strength of 4000 psi and an air-dry unit weight between 95 and 115 lb/cu ft, with a minimum of 611 pounds of cement per cu yd. Lightweight concrete shall be made with normal fine aggregate; lightweight fine aggregate shall not be used. Slump: Maximum 4 inches; minimum 1 inch before the addition of any water-reducing admixtures or high-range water-reducing admixtures (superplasticizers) at the Site.
- 6) Refer to Page 033000 – 8-9, Subparagraph 2.04 D.: Add the following:
  - D. ACI 301, Section 7 - Lightweight Concrete:
    - 1. Add the following paragraph: Lightweight coarse aggregate shall be presoaked with water a minimum of 24 hours prior to use in a concrete mix to be pumped. Presoaking may be accomplished by suitable sprinkling.
- 7) Refer to Page 033000 – 12, Subparagraph 3.07 D.: Add the following:
  - D. Curing of concrete containing the Moisture Vapor Reduction Admixture (MVRA) to be cured for a minimum of 24 hours after finishing operations are complete by placing minimum 2mil polyethylene plastic on the concrete slab.
- 8) Refer to Page 033000 – 14, Subparagraph 3.09 I & J.: Add the following:
  - I. Addition of Moisture Vapor Reduction Admixture (MVRA) to concrete, on-site representation, and quality control testing shall be done in strict accordance with the manufacturer's written instructions and recommendations.

- J. Testing for concrete containing the Moisture Vapor Reduction Admixture (MVRA) shall include, but not limited to:
1. Independent procurement of one cylinder per day of placement of concrete containing MVRA; do not proceed without MVRA representative being present.
  2. Independent testing of all cylinders for hydraulic conductivity per ASTM D5084.
  3. Assessing each cylinder for maximum flow of 6.0 E-08 cm/sec.
  4. Should any cylinder exceed the maximum flow, procure a core from that day's placement.
  5. Independently test core for hydraulic conductivity per ASTM D5084.
  6. Should any core exceed the maximum flow, provide a topical moisture mitigation system for all areas not meeting the stated limit; moisture mitigation system to include all labor, material and warranty that meets or exceeds the term of the concrete moisture vapor reducing admixture manufacturer's warranty.
  7. See manufacturer and supplier recommendations for any additional product specific testing requirements.

## **CONSTRUCTION WORK DRAWINGS**

1. Addendum Drawing
  - a. Drawing No. SKA-01 noted "ADDENDUM DRAWING 10/16/2015" accompanies this Addendum and forms part of the Contract Documents.
2. Refer to Drawing A-116, AREA -B FIRST FLOOR PLAN. Add the following Drawing Note - 52. Freezer boxes B-122,123 and Cooler boxes B-118,119 & 120 shall be furnished with 48" wide clear opening insulated doors. Freezer box B-109 and Cooler box B-116 shall be furnished with 42" wide clear opening insulated doors.
3. Refer to Drawing A-505, FREEZER COOLER DETAILS AND SECTIONS. Refer to Detail 9/A-505, replace detail with attached Sketch SKA-01 dated. 16 October 2015.
4. Refer to Drawing A-108, AREA -A FIRST FLOOR PLAN. Add the following note to the existing Note in the Prefab Cooler/ Freezer: "Note: Prefabricated Cooler/Freezer Wall Panels with 48" wide clear opening insulated doors."

### Attachments:

Section 013300- SUBMITTALS

Section 114102-PREFABRICATED WALK-IN REFRIGERATED BOXES

Sketch SKA-01 Dated 10-16-15

## **END OF ADDENDUM**

Margaret F. Larkin  
Executive Director  
Design and Construction

**SECTION 013300**

**SUBMITTALS**

**PART 1 GENERAL**

**1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE**

- A. Other requirements pertaining to submittals are included in the General Conditions and in the various sections of the Specifications.
- B. Summary of the Work: Section 011000.
- C. Administrative Requirements: Section 013000.
- D. Contract Closeout Submittals: Section 017716.

**1.02 DEFINITIONS**

- A. Deviation: Changes in products, materials, equipment and methods of construction from those required by the Contract Documents and proposed by the Contractor.
- B. Acceptable Manufacturer, Company or Product: A manufacturer, company or product capable of achieving the requirements established in the Contract Documents and demonstrating compliance.
- C. Portable Document Format (PDF): An open standard file format used for representing documents in a device-independent and display resolution-independent fixed layout document format.

**1.03 DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS**

- A. Deviations from the requirements of the Contract Documents will not be allowed unless a request for deviation is made in writing prior to or at the time of submission and the specific deviation is approved by the Director's Representative subject to the requirements of Article 4 of the General Conditions. The request for deviation shall be made utilizing the CONTRACT DOCUMENT DEVIATION REQUEST FORM (Form BDC 49) accessible from the OGS Web Site.
  - 1. The submission of a deviation shall be done in a timely manner according to the schedule of submittals to allow the Director sufficient time for review.

**1.04 “OR EQUAL” TO BRAND NAME PRODUCTS**

- A. Whenever a product is specified by brand name, a comparable brand, equal to that named, may be submitted for approval subject to the requirements of Article 5 of the General Conditions.
  - 1. The Contractor shall bear the burden of proving that the proposed product is equal to the specified product. The submission of an “or equal” shall be done in a timely manner to allow the Director sufficient time to review the proposed product.
  - 2. Whenever a color or pattern is indicated by a specific manufacturer’s name or number, the intent is to communicate the required color or pattern of the material. Other manufacturers’ comparable colors or patterns may be submitted for approval as equal.

**1.05 WAIVER OF CERTAIN SUBMITTAL REQUIREMENTS**

- A. Unless otherwise specified, the requirement to submit product data and samples for approval will be waived for products specified by brand name if the specifically named products are furnished for the Work. In such cases, submit required Product Data to the Director’s Representative via Submittal Exchange® for information only.

**1.06 ADMINISTRATIVE REQUIREMENTS**

- A. Participate in the OGS’s hosted web-based collaboration service (Submittal Exchange® at [www.submittalexchange.com](http://www.submittalexchange.com)) to transmit and track Contractor provided project related documents.
- B. Identify submittals by project title and number. Include Contractor’s name, date, and revision date. On shop drawings, product data and samples, also include the name of the supplier and subcontractor (if any), and applicable specification section number. Stamp each submittal and initial or sign the stamp to certify review and approval of submittal.
- C. Assemble submittals in accordance with the requirements in the individual sections of the Specifications and as required by this section. It is the Contractor’s responsibility to review and verify that all information required for each submittal is included in the submittal package. Errors or omissions found by the Contractor are to be corrected prior to the submission of the submittal package for approval. Incomplete submittal packages that have been submitted for review and approval will be returned.
  - 1. It is the Contractor’s responsibility to verify that portions of the submittal package to be provided by a subcontractor (or supplier) are complete, as well as portions of the submittal package being provided directly by the Contractor.
  - 2. Do not combine the submittals of more than one specification section with submittals required by other specification sections unless specifically stated in the contract Specifications.

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- D. If a submittal is based on, or the result of, a change order or field order to the Contract Documents, include copies of the applicable change order or field order with the submittal.
- E. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
  2. Submit all submittal items required for each specification section concurrently unless instructions for partial submittals are required in a specific specification section requiring sequential submissions.
  3. Submit action submittals and informational submittals required by the same specification section as separate packages under separate transmittals.
  4. Coordinate transmittals of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
    - a. The Director's Representative reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- F. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on uploading the submittal to Submittal Exchange®. No extension of the project schedule will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
1. Initial Review: Allow time for the initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. The Designer of Record will advise the Director's Representative when a submittal being processed must be delayed for coordination.
  2. Resubmittal Review: Allow time for review of each resubmittal.
  3. Sequential Review: Where sequential review of submittals by the project team is necessary for coordination, allow time for review.
- G. The Construction Contractor(s) shall employ or otherwise provide a full-time Submittal Coordinator for no less than 90 days after the Initial Job Meeting (IJM). The Submittal Coordinator is responsible to manage, coordinate and facilitate the submittal process on behalf of the Contractor. The Submittal Coordinator shall have regularly been engaged in construction administration for a minimum of 3 years and shall not be employed or otherwise engaged as the Project Manager or Superintendent for either the Work of this Contract or be employed in any role, full or part time, outside of this Contract.

### 1.07 SUBMITTALS

- A. Submittal Coordinator Qualifications: Not later than 10 days after Award. Include resume and references, and other certification, licenses, or other requested information.

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- B. Schedule of Submittals acknowledgement: Provide written acknowledgement that the Schedule of Submittals has been received and reviewed with Critical Submittals identified and Contractor's Projected Dates (three dates inserted into each column) are entered for each specification item.

### 1.08 RE-EVALUATION FEE

- A. In accordance with Article 4.7 of the General Conditions, a re-evaluation processing fee will be levied against the Contractor for each re-evaluation of a Submittal or Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content or format.

### 1.09 ELECTRONIC SUBMITTALS

- A. Submittal Exchange® is used to provide an on-line database and repository which shall be used to transmit and track project related documents. The intent for using this service is to expedite the construction process by reducing paperwork, improving information flow, and decreasing submittal review turnaround time.
1. Project submittals (shop drawing, product data and quality assurance submittals) shall be transmitted by the Contractor in PDF to Submittal Exchange®, where it will be tracked and stored for retrieval for review. After the submittal is reviewed it is uploaded back to Submittal Exchange® for action or use by the Contractor and Director's Representatives.
  2. The service also tracks and stores documents related to the project such as RFI's (Request for Information), IB's (Information Bulletins), CAD Coordination, Minutes, Testing, Closeout, and SWPPP documents.
- B. For each submittal, the Contractor shall review and apply electronic stamp certifying that the submittal complies with the requirements of the Contract Documents, including verification of manufacturer/product, dimensions and coordination of information with other parts of the work.
- C. It is the Contractor's responsibility to provide submittals in PDF. The Contractor may use the following options:
1. Subcontractors and suppliers provide electronic submittals in PDF to the Contractor through Submittal Exchange®.
  2. Subcontractors and suppliers provide paper submittals to the Contractor, who electronically scans and converts them to PDF.
  3. Contract a Scanning Service, which will allow the Contractor and the Contractor's subcontractors and suppliers to provide paper submittals to the Scanning Service, which electronically scans and converts them to PDF. It will be the Contractor's responsibility to transmit the scanned submittals to Submittal Exchange®.
- D. Image Quality:
1. Image resolution: The PDF files shall be created at a minimum resolution of 200 dots per inch utilizing the original document size. The Contractor will be responsible to increase the resolution of the scanned

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- file or images being submitted as required to adequately present the information.
2. Image Color Rendition: When information represented requires color to convey the intent and compliance, provide full color PDF reproduction.
- E. Internet Service and Equipment Requirements:
1. The Contractor will be required to have an Email address and Internet access at Contractor's main office.
  2. Unless the Contractor will exclusively be using a Scanning Service to create PDF documents, the Contractor will be required to own a PDF reviewing, creating and editing software, such as Adobe Acrobat ([www.adobe.com](http://www.adobe.com)), Bluebeam PDF Revu® ([www.bluebeam.com](http://www.bluebeam.com)), or other similar PDF reviewing, creating and editing software for applying electronic stamps and comments.
- F. Training and Support:
1. Submittal web-based collaboration training and support shall be available, free of charge from Submittal Exchange®, for project participants using the submittals website.
  2. Training schedule will be coordinated through the Director's Representative.
- G. Paper prints (hardcopies) of reviewed submittals:
1. Record Copy: Each Contractor shall provide one paper copy of each submittal they are responsible for to the Director's Representative within 14 days of receipt of a released submittal (i.e. marked "Approved", "Approved As Noted", or other implied acceptance of a submittal), or meeting the requirements of Waiver Of Certain Submittal Requirements Article of this specification section.
    - a. Exception: Paper copies are not required for a submittal that is disapproved or requiring resubmission.
    - b. Paper copies shall be printed in a size format equal to the original document.
    - c. Scaled Shop Drawings shall be printed to the scale noted on the drawings.
    - d. The resolution of the printed copy shall be equal to that of the PDF file that it is being printed from.
    - e. The Record Copy shall be used by the Director's Representative during the construction of the project and shall be retained as a turn-over item to the facility at the end of the project as required under Section 017716 Contract Closeout.
  2. Use for Construction: Retain complete copies of submittals on project site. The Contractor shall not commence work for related activities until the appropriate submittals are approved and the corresponding record copies are delivered to the Director's Representative.
  3. Distribution: The Contractor will furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Maintain transmittal forms indicating distribution of submittals.

**1.10 SHOP DRAWINGS**

- A. Provide shop drawings in the format required by the Specifications. Show the information, dimensions, connections and other details necessary to insure that the shop drawings accurately interpret the Contract Documents. Show adjoining construction in such detail as required indicating proper connections. Where adjoining connected construction requires shop drawings or product data, submit such information for approval at the same time so that connections can be accurately checked.
- B. Electronic copies of CAD Drawings of the Contract Drawings will not be provided by the Director's Representative for Contractor's use in preparing submittals.
- C. Have shop drawings prepared by a qualified detailer. Shop drawings shall be neatly drawn and clearly legible. Machine duplicated copies of Contract Drawings will not be accepted as shop drawings.
  - 1. Where shop drawings are indicated to be drawn to scale:
    - a. Use scale normally found on an "Architect" or "Engineer" scale.
    - b. Written Scale: Clearly label scales being used on each drawing and/or on each detail on the drawing.
      - 1) Examples: 1/8" = 1'-0" 1" = 40'-0".
    - c. Graphic Scale: Adjacent to each Written Scale, provide a graphic scale delineating the scale being used. Graphic scale shall be divided into measuring units relating to the accuracy required for the drawing or details.
    - d. Clearly dimension key elements of the drawing or detail.
  - 2. When the drawing sheet is printed full size, the minimum text size shall be 1/8" (3.2 mm) for hand drafting and 3/32" (2.5 mm) for CADD drawings.
- D. Submit the shop drawings through Submittal Exchange®. The shop drawings will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of "DISAPPROVED" or "RETURNED FOR CORRECTION", promptly correct the deficiencies and resubmit the shop drawings meeting Contract requirements.

**1.11 PRODUCT DATA**

- A. Provide product data in the format required by the Specifications. Modify product data by deleting information that is not applicable to the project or by marking the product data to identify pertinent products. Supplement standard information, if necessary, to provide additional information applicable to project.
- B. Submit the product data through Submittal Exchange®. The product data will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of "DISAPPROVED" or "RETURNED FOR CORRECTION", promptly correct the deficiencies and resubmit the product data meeting Contract requirements.

- C. Comply with applicable federal and State of New York Right-to-Know Law provisions. Provide Safety Data Sheets (SDS) documents for products that have SDS data prior to use on the project site.
  - 1. Upload and maintain electronic SDS documents on the Submittal Exchange® SDS tab.
  - 2. SDS tab is organized by prime contracts. To be readily identified, name products with SDS by specification section number and product name.
  - 3. Supply and maintain one hard copy of the appropriate SDS on the project site and one hard copy with the Facility's Right-to-Know Information Officer.

**1.12 QUALITY ASSURANCE**

- A. Provide quality assurance information in the format required by the Specifications, including supporting documentation as required.
- B. Submit the quality assurance information through Submittal Exchange®. The quality assurance information will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of "DISAPPROVED" or "RETURNED FOR CORRECTION", promptly correct the deficiencies and resubmit the quality assurance information meeting Contract requirements.

**1.13 SAMPLES**

- A. Submit 2 (unless a different number is specified) of each sample required by the Specifications.
- B. Samples will become the property of the State when submitted and will not be incorporated in the Work unless specifically stated otherwise.
- C. The electronic submittal process is not intended for color samples, color charts, or physical material samples.
- D. Record transmittal of each sample required by the Specifications through Submittal Exchange®.
- E. Consult with the Director's Representative for direction on where Samples will be sent for review.
- F. The sample will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review.

**1.14 REVIEW OF SUBMITTALS**

- A. Items submitted for review will be reviewed for compliance with the Contract Documents, based upon the information submitted. The items will be acted upon with the following dispositions:
  - 1. Approved:

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- Where the submittal is marked “Approved”, the work covered by the submittal may proceed provided it complies with the Contract Documents. Final acceptance will depend on that compliance.
2. **Approved as Noted:**  
Where the submittal is marked “Approved as Noted”, the work covered by the submittal may proceed provided it complies with the review comments noted on the submittal and the Contract Documents. Final acceptance will depend on that compliance.
  3. **Disapproved:**  
Where the submittal is marked “Disapproved”, do not proceed with the work covered by the submittal, including purchasing, fabrication, delivery or other activity for the item submitted. Prepare a new submittal according to the review comments noted on the submittal and meeting the Contract Documents.
  4. **Returned for Correction:**  
Where the submittal is marked “Returned for Correction”, do not proceed with the work covered by the submittal, including purchasing, fabrication, delivery or other activity for the item submitted. Revise or prepare a new submittal according to the review comments noted on the submittal and meeting the Contract Documents.
  5. **Acknowledged:**  
Where the submittal is marked “Acknowledged”, receipt of the submittal is acknowledged and has been recorded.
  6. **No Action:**  
Where the submittal is marked “No Action” or “No Action Taken”, no review was made of this item, see comments noted on submittal and take appropriate action.
  7. **Multi-Action:**  
Where the submittal is marked “Multi-Action”, separate dispositions were made for the items submitted, see the review comments for the disposition of each item submitted.

### **1.15 SCHEDULES AND RECORDS**

- A. Submit the following Schedules and Records information not later than 15 days after approval of the Contract unless the Contractor or the Director determines an earlier submission is required to properly schedule or progress the Work.
  1. **SCHEDULE OF SUBMITTALS (S.O.S.):**
    - a. Follow the Instructions to the Contractor in the S.O.S (cover page of the Microsoft Excel form supplied by the State).
    - b. Confirm submittal items listed and indicate in the spaces following each item, the date the item will be submitted (Projected Transmittal Date).
    - c. Confirm critical submittals and long lead items identified by the Architect / Engineer. Identify and mark with “X” additional submittals deemed as critical or having long lead times. In addition to the date each item will be submitted, include the date approval is required (allow at least 3 weeks), and the date delivery of the material or equipment is necessary for timely completion of the Work in accordance with the Project Schedule.

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- d. Notify the Director's Representative of modifications and/or additional submittals necessary for the project prior to requesting revisions with Submittal Exchange®.
- 2. SUBMITTALS WEBSITE LOG:
  - a. The submittal website log will be populated by Submittal Exchange® by means of the S.O.S.
  - b. Review the log and verify that all long lead items and critical submittals are properly indicated according to the latest version of the S.O.S. For each item to be submitted indicate the following:
    - i. In the "Date Expected" column insert the date the item will be submitted for review and approval (this is the same date as the S.O.S "Projected Transmittal Date").
    - ii. In the "Date Requested on Site" column insert the date the item will be delivered to the project site (this is the same date as the S.O.S "Projected Delivery Date").
  - c. The submission date that is entered shall provide sufficient time for the item to be reviewed, ordered, delivered and installed for timely completion of the Work in accordance with the Project Schedule. The date entered for submittal of each item is the last day a deviation will be considered.

### 1.16 TRANSMITTALS

- A. Submittal Transmittal (Form BDC 42) accessible from the OGS Web Site:
  - 1. Furnish separate Form BDC 42 for each submitted item sent to Submittal Exchange® for review.
    - a. Contractor may utilize their own Transmittal Form (or Transmittal Letter) in lieu of utilizing the Form BDC 42, contingent on the Contractor's Transmittal Form includes all information and certifications required by Form BDC 42.
  - 2. Clearly identify applicable specification section number of submitted item (product data, shop drawing, etc.) on the Form BDC 42.
- B. All Contracts:
  - 1. Transmit items designated in the Schedule of Submittals (and project Specifications) to the Submittal Exchange®.

### PART 2 PRODUCTS (Not Used)

### PART 3 EXECUTION (Not Used)

**END OF SECTION**

## SECTION 114102

### PREFABRICATED WALK-IN REFRIGERATED BOXES

#### PART 1 GENERAL

##### 1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Cast In Place Concrete: Section 033000.
- B. Vapor Retarders: Section 072601.
- C. Sealants: Section 079200.

##### 1.02 SUBMITTALS

- A. Waiver of Submittals: The “Waiver of Certain Submittal Requirements” in Section 013300 does not apply to this Section.
- B. Shop Drawings:
  - 1. Panel layouts and elevations.
  - 2. Door panel details.
  - 3. Details of ceiling support assembly.
  - 4. Structural framing of internal ceiling panel support for outdoor boxes.
  - 5. Refrigerated box roofing plan and details.
  - 6. Refrigerated box structural details.
- C. Product Data: Catalog sheets, performance charts, wiring diagrams, specifications, and installation instructions for each item specified.
- D. Quality Control Submittals:
  - 1. Company Field Advisor Data:
    - a. Name, business address and telephone number of Company Field Advisor secured for the required services.
    - b. Certified statement from the Company listing the qualifications of the Company Field Advisor.
    - c. Services and each product for which authorization is given by the Company, listed specifically for this project.
- E. Contract Closeout Submittals:
  - 1. Operation and Maintenance Data: Deliver 2 copies, covering the installed products, to the Director’s Representative.
  - 2. Warranty: Copy of specified warranty.

##### 1.03 QUALITY ASSURANCE

- A. Regulatory Requirements:
  - 1. Prefabricated walk-in refrigerated boxes shall be approved by:
    - a. National Sanitation Foundation (NSF).

2. Refrigeration equipment shall have BTU/HR capacity ratings certified by the manufacturer.
  3. Refrigeration equipment shall conform to the Energy Code of the US Department of Energy.
  4. Electric components, refrigeration system, and prefabricated panels shall be Underwriter's Laboratory listed.
  5. Panels shall be maximum UL 25 flame spread rated.
- B. Company Field Advisor: Secure the services of a Company Field Advisor for a minimum of 16 working hours for the following:
1. Render advice regarding installation of the prefabricated walk-in refrigerated box.
  2. Startup and verify operation of packaged refrigeration equipment.
  3. Training of facility personnel on operation and service of alarms, monitoring equipment, and packaged refrigeration equipment.

#### **1.04 WARRANTY**

- A. Warranty Extension: The one year period required by Paragraph 9.8 of the General Conditions is extended to 10 years for the Work of this section. Refer to Supplementary Conditions.
- B. Manufacturer's Warranty: Ten year warranty for prefabricated panels and heavy duty doors.

#### **1.05 MAINTENANCE**

- A. Special Tools: One tool for each type and size vandal resistant fastener.

### **PART 2 PRODUCT**

#### **2.01 PREFABRICATED INDOOR WALK-IN REFRIGERATED BOXES AND HEAVY DUTY DOORS**

- A. Acceptable Manufacturers:
1. Bally Refrigerated Boxes Inc., 771 First Ave., King of Prussia, PA 19406, (800) 242-2559, [www.ballyrefboxes.com](http://www.ballyrefboxes.com).
  2. Kolpak Inc., P.O. Box 137, 715 St. Croix St., River Falls, WI 54022, (800) 826-7036, [www.kolpak.com](http://www.kolpak.com).
  3. Master-Bilt, 908 Highway 15 North, New Albany, MS 38652, (800) 647-1284, [www.master-bilt.com](http://www.master-bilt.com).
  4. Tafco, P.O. Box 269, 1101 Graham St., Hyde, PA 16843, (800) 233-1954, [www.walkins.com](http://www.walkins.com).
- B. Prefabricated Panels:
1. Construction: Interior and exterior metal surfaces precisely formed in standard width increments with insulation sandwiched between and bonded to metal surfaces.
  2. Nominal Panel Thickness: 4 inch for coolers, except Cooler 7, Room - B106 shall be 6 inch, 6 inch for freezers.

3. Insulation: 4 inches rigid polyurethane, foamed-in-place, conforming to the energy code of US Department of Energy.
  - a. Minimum R Values for Freezers:
    - 1) Walls and Ceilings: R32.
    - 2) Floors: R28.
  - b. Minimum R Values for Coolers:
    - 1) Walls and Ceilings: R25.
    - 2) Floors: R25.
4. Panel Edges: Molded polyurethane tongue and groove construction with permanently foamed-in-place flexible PVC gasketing on interior and exterior of tongue edges.
5. Panel Locking Devices: Positive locking, wrench operated type consisting of cam action hooked locking arm in one panel and opposing steel rod positioned in adjoining panel.
  - a. Maximum Distance Between Locking Devices: 46 inch centers.
6. Uniform Distributed Floor Loading (Standing Weight): Minimum 600 lbs per sq ft.
7. Door Opening Reinforcement: 4 inch x 4 inch pressure treated wood blocking foamed-in-place in the wall panels around the perimeter of heavy duty door opening, and with permanently foamed-in-place flexible PVC gaskets around perimeter on interior and exterior of panel edges.

C. Interior Metal Surfaces:

1. Wall, Ceiling, and Corner Panels:
  - a. 20 gage Type 301 stainless steel, with No. 4 finish.
2. Floor Panels:
  - a. 16 ga. smooth stainless steel (Freezer 6 and Cooler 7).
    - 1) Underlayment: 3/4 inch thick exterior grade plywood installed under interior metal surface of floor panel.
3. Wainscots:
  - a. 1/8 inch aluminum diamond plate. Height above floor as indicated.
4. Base: Intragal with floor panel, NSF corner radius (Freezer 6 and Cooler 7).
5. Stainless Steel Base (where indicated), interior of cooler / freezer boxes with tile floor, fabricated from smooth stainless steel plate base with bottom cove.
  - a. Style: NSF cove (3/8" radius) with 1" long toe.
  - b. Height: 6 inches.
  - c. Gage: 12 ga.
  - d. Securement: Secure base to wall with two rows stainless steel fasteners. Provide (2) 3/16" dia. Stainless Steel Masonry Screw Anchors with 1" Embedment, 2 1/4" Space between Anchors, 1 1/4" from bottom & 48" o.c..
  - e. Miter all corners.

D. Exterior Metal Surfaces:

1. Concealed Surfaces of Wall, Ceiling and Corner Panels:
  - a. 24 gage stucco embossed galvalume steel.
2. Exposed Surfaces of Wall, Ceiling and Corner Panels, and Closure Trim:

- a. 20 gage Type 301 stainless steel with No. 4 finish.
  - 3. Wainscots:
    - a. 1/8 inch aluminum diamond plate. Height above floor as indicated.
- E. Box Accessories:
  - 1. Floor Screeds: Constructed of vinyl or metal matching panel finish, 4 inch high, with foamed-in-place urethane insulation, and factory installed locking clips for attachment to bottom of wall panels.
  - 2. Ceiling Support Assembly: Steel channel and angle supports for ceiling sections over 17'-4" in length, furnished by the manufacturer of the box.
  - 3. Wrench Hole Cover Caps: Tight fitting snap-in type.
  - 4. Thermometer: Flush face, built-in digital or dial type with remote sensor, and minimal temperature range of minus 40 degrees F to plus 60 degrees F.
- F. Stainless Steel Wall Bumpers:
  - 1. Stainless Steel Wall Bumpers: Constructed of 12 ga Type-304 stainless steel, polish finish No. 4.
  - 2. Comply with requirements of ASTM A276.

## **2.02 PREFABRICATED OUTDOOR WALK-IN REFRIGERATED BOXES AND HEAVY DUTY DOORS**

- A. Acceptable Manufacturers:
  - 1. Bally Refrigerated Boxes Inc., 771 First Ave., King of Prussia, PA 19406, (800) 242-2559, [www.ballyrefboxes.com](http://www.ballyrefboxes.com).
  - 2. Kolpak Inc., P.O. Box 137, 715 St. Croix St., River Falls, WI 54022, (800) 826-7036, [www.kolpak.com](http://www.kolpak.com).
  - 3. Penn Refrigeration Co., P.O. Box 1261, Woodbury St., Wilkes-Barre, PA 18702, (800) 233-8354, [www.pennrefrig.com](http://www.pennrefrig.com).
  - 4. Master-Bilt, 908 Highway 15 North, New Albany, MS 38652, (800) 647-1284, [www.master-bilt.com](http://www.master-bilt.com).
  - 5. Tafco, P.O. Box 269, 1101 Graham St., Hyde, PA 16843, (800) 233-1954, [www.walkins.com](http://www.walkins.com).
- B. Prefabricated Panels:
  - 1. Construction: Interior and exterior metal surfaces precisely formed in standard width increments with insulation sandwiched between and bonded to metal surfaces.
  - 2. Nominal Panel Thickness: 6 inch for coolers, 6 inch for freezers.
  - 3. Insulation: 6 inches rigid polyurethane, foamed-in-place, conforming to the energy code of US Department of Energy.
    - a. Minimum R Values for Freezers:
      - 1) Walls, and Ceilings: R32.
    - b. Minimum R Values for Coolers:
      - 1) Walls, and Ceilings: R32.
      - 2) Floors: No panels.
  - 4. Panel Edges: Molded polyurethane tongue and groove construction with permanently foamed-in-place flexible PVC gasketing on interior and exterior of tongue edges.

5. Panel Locking Devices: Positive locking, wrench operated type consisting of cam action hooked locking arm in one panel and opposing steel rod positioned in adjoining panel.
    - a. Maximum Distance Between Locking Devices: 46 inch centers.
  6. Uniform Distributed Roof/Ceiling Live Loading, 35 lbs per sq ft.
  7. Wind Load: Determine design wind pressure in accordance with ASCE/SEI 7-05 using the criteria listed on the Drawings.
  8. Door Opening Reinforcement: 6 inch x 6 inch pressure treated wood blocking foamed-in-place in the wall panels around the perimeter of heavy duty door opening, and with permanently foamed-in-place flexible PVC gaskets around perimeter on interior and exterior of panel edges.
- C. Interior Metal Surfaces:
1. Wall, Ceiling, and Corner Panels:
    - a. 20 gage Type 301 stainless steel, with No. 4 finish.
  2. Wainscots:
    - a. 1/8 inch aluminum diamond. Height above floor as indicated.
  3. Stainless steel base:
    - A. Stainless Steel Base, fabricated from stainless steel bent diamond plate base with bottom cove.
      1. Style: Cove with 1" tong toe, 1/2" radius.
      2. Height: 4 inches.
      3. Gage: 12 ga.
      4. Securement: Secure base to wall with two rows stainless steel fasteners. Provide (2) 3/16" DIA. Stainless Steel Masonry Screw Anchors with 1" Embedment, 2 1/4" Space between Anchors, 1 1/4" from bottom & 48" o.c.
      5. Miter all corners.
- D. Exterior Metal Surfaces:
1. Concealed Surfaces of Ceiling:
    - a. 20 gage stucco embossed galvalume steel.
  2. Exposed Surfaces of Wall, and Corner Panels, and Closure Trim:
    - a. 18 gage Type 301 stainless steel with No. 4 finish.
  3. Wainscots:
    - a. 1/8 inch aluminum diamond plate. Height above floor as indicated.
- E. Roofing:
1. Basis-of-Design Product: Subject to compliance with requirements, provide Duro-Last, Inc., Duro-Last Single-Ply Roofing System or comparable product by one of the following:
    - a. Carlisle Syntec, Inc.
  2. Membrane is a polyvinylchloride polymer blend.
    - a. 0.040-inch thick single ply membrane.
  3. Mechanically fastened as required by roofing manufacturer requirements.
  4. Vapor Barrier: 6 mil polyethylene sheet.
- F. Box Accessories:

1. Floor Screeds: Constructed of metal matching panel finish, 4 inch high, with foamed-in-place urethane insulation, and factory installed locking clips for attachment to bottom of wall panels.
  2. Ceiling Support Assembly: Steel channel and angle supports for ceiling sections over 17'-4" in length, furnished by the manufacturer of the box.
  3. Wrench Hole Cover Caps: Tight fitting snap-in type.
  4. Thermometer: Flush face, built-in digital or dial type with remote sensor, and minimal temperature range of minus 40 degrees F to plus60 degrees F.
  5. Conduits to top of panel, and electrical box.
  6. Shear plates.
  7. Stainless steel rain shield over hinge door.
  8. Stainless steel wall anchors, 1 5/8 inch x 2 1/2 inch stainless steel angles at corner joints, vertical joints and centerline of vertical panels.
- G. Stainless Steel Wall Bumpers:
1. Stainless Steel Wall Bumpers: Constructed of 12 ga. type-304 stainless steel polish finish No. 4.
  2. Comply with requirements of ASTM A276.

### **2.03 DOOR / FRAME HEATER CABLE (for both COOLER AND FREEZER DOORS)**

Provide required heater cabling system:

- A. Heater Cable:
1. Type: Easily accessible anti-sweat electric heater cable. The heater cables for the doors are to be provided in the sides and head of the frame and the sill of the frame at gasket contact areas. Heating cables are to be assembled, ready for connection to 120 volt, 60 Hertz, single phase AC line. Cables are to be sized for cooler and / or freezer applications.
  2. Function: Supplies sufficient heat to prevent condensation and frost formation at door jamb.
  3. Location: A. Place heater cables behind door jamb along the sides and head of the door frame and under the sill threshold at the door opening, where indicated. B. Place heater cables behind door jamb along the sides and head of the door frame and at bottom of the door at the door sweep, where indicated. C. Reference drawings for heater cable locations.
  4. Control: adjustable, commercial grade with stainless steel cover plate, thermostatic (rheostat) rated for heated cable provided..

### **2.04 LIGHTING**

- A. LED Fixtures (where the temperature is not expected to go below 0 degrees F.): 4-foot ceiling mounted, vandal resistant, LED wraparound luminaire, UL listed suitable for Wet Location, basis of design: Kason LED 1810LX4000.
1. Voltage rating to suit branch circuit voltage.
  2. Suitable for temperature (0) degrees F.
  3. Housing: 6 7/32-inch width x 49 7/8 inch long, One piece 20- gauge CRS.
  4. Finish: Stainless steel.

5. Tamper resistant stainless steel screws and fasteners. Security head Torx center pin.
  6. Lens: clear polycarbonate, smooth exterior, prismatic interior.  
Doorframe silicone gasket.
  7. Mount flush to ceiling.
  8. IP-65 rated.
  9. LM-79 and LM-80 tested
  10. Rated for 50,000+ hours of life.
  11. 39 watts total, 100-277VAC, 3770 lumens, 4000K color temperature.
  12. NSF compliant.
  13. Unbreakable polycarbonate enclosure.
- B. LED Fixtures (Where temperatures are expected between 0 and -20 degrees F.):  
4-foot ceiling mounted, vandal resistant, LED wraparound luminaire, UL listed suitable for Wet Location, basis of design: Kason LED 1810LX4000.
1. Voltage rating to suit branch circuit voltage.
  2. Suitable for temperature (-20) degrees F.
  3. Housing: 6 7/32-inch width x 49 7/8 inch long, One piece 20- gauge CRS.
  4. Finish: Stainless steel.
  5. Tamper resistant stainless steel screws and fasteners. Security head Torx center pin.
  6. Lens: clear polycarbonate, smooth exterior, prismatic interior.  
Doorframe silicone gasket.
  7. Mount flush to ceiling.
  8. IP-65 rated.
  9. LM-79 and LM-80 tested
  10. Rated for 50,000+ hours of life.
  11. 39 watts total, 100-277VAC, 3770 lumens, 4000K color temperature.
  12. NSF compliant.
  13. Unbreakable polycarbonate enclosure.
- C. Toggle Switch/Neon-Pilot Light Combination: Flush mounted in exterior door panel and wired to light fixture.
- D. Provide factory installed rigid conduit within panel sections from toggle switch to light fixture and door jamb heater junction boxes. Provide and install weather proof junction boxes with weather proof covers.

## 2.05 SPECIALTY DOORS

- A. Basis of Design: Jamolite II Model by Jamison Door Co., P.O. Box 70, Hagerstown, MD 21741, (800) 532-3667, [www.jamisondoor.com](http://www.jamisondoor.com) or approved equal.
- B. Heavy Duty Door:
1. Door Panel:
    - a. Two surfaces bonded together with polyester plastic resin.

- b. Each surface having an outer layer of polyester plastic with white pigment, and balance of pan consisting of glass fiber reinforced plastic.
  - c. Steel blocking for hardware attachment.
  - d. Door protected front with 32 inch high and back with 4 foot high, 1/8 inch stainless steel kick plates. Secure kick plates with adhesive (penetration by fasteners is not acceptable).
2. Insulation: 4 inches rigid urethane, foamed-in-place, conforming to the Energy Code of US Department of Energy.
- a. Minimum R Values for Freezer Doors: R32.
  - b. Minimum R Values for Coolers Doors: R25.
3. Gaskets:
- a. At Sides and Head of Door Lip: Grease resistant synthetic skin with resilient sponge core.
  - b. Sill: Double sweep type of nylon reinforced neoprene.
4. Frame:
- a. Components similar to door construction except that:
    - 1) Jamb constructed of exterior grade plywood.
    - 2) Back of frame completely sealed with polyester plastic.
  - b. Face of door flush with face of frame casing.
  - c. Metal clad exposed surfaces of frame with 16 gage steel, minimum of 4 feet high. Metal clad remainder of frame with 26 gage stainless steel.
    - 1) Apply metal cladding in accordance with USDA regulations.
5. Door Hardware:
- a. Extra Heavy Duty Hinge: Polished 17 inch chrome plated brass self rising type with chrome plated ball bearing, stainless steel hinge pin with 3/16 inch stainless steel cross pin peened on each end, stainless steel vandal resistant fasteners, and provisions for padlocking; Model D38 by Dent Industries Inc., Bethlehem, PA.
    - 1) Minimum Number of Hinges Per Door: 3.
  - b. Door Latch and Strike Assembly: Chrome plated die-cast zinc body and strike housing with chrome plated forged brass handle, and vandal resistant fasteners; Model K55 by Kason Industries Inc., Shenandoah, GA.
  - c. Manual Interior Safety Release Device: Galvanized steel rod and flange with glowing plastic knob, and stainless steel vandal resistant fasteners; Model 483 by Kason Industries, Inc., Shenandoah, GA.
    - 1) Permits exit from within box when door is padlocked on exterior.
6. Strip Curtain: Constructed of PVC, with minimum 2 inch overlap with adjacent strips or door jambs.
7. Door Dimension: Freezer boxes B-122,123 and Cooler boxes B-118,119 & 120 shall be furnished 48 inches wide x 84 inches high. Freezer box B-109 & Cooler Box B-116 shall be furnished with 42 inches wide x 84 inches high. Temporary Freezer and Cooler boxes shall be furnished 48 inch wide x 84 inches high.

## **2.06 AIR PRESSURE RELIEF VENTS - BOXES BELOW 33 DEGREES**

- A. Equip boxes with electric defrost or hot gas defrost type evaporators with electrically heated air pressure relief vents to allow air to either enter box or exhaust from box.

## **2.07 TEMPERATURE ALARM**

- A. Type: Combination digital alarm and thermometer.
  - 1. LED display.
  - 2. Remote low voltage sensor.
  - 3. Fully adjustable high and low set points.
  - 4. Switchable display for Fahrenheit, and Celsius.
  - 5. Alarm horn with mute switch.
  - 6. Safe and alarm lights.
  - 7. Battery backup with battery test switch.

## **2.08 FASTENERS FOR HEAVY DUTY**

- A. Vandal Resistant Fasteners: Torx head with center pin.

## **PART 3 EXECUTION**

### **3.01 PREPARATION**

- A. Prior to erection of prefabricated walk-in refrigerated box examine concrete slab on which it is to rest. Do not install box until surface has been patched. Refer to Section 030131.

### **3.02 INSTALLATION - PREFABRICATED WALK-IN REFRIGERATED BOX**

- A. Install box in accordance with the manufacturer's printed installation instructions and approved shop drawings, unless otherwise shown or specified.
  - 1. Install closure trim where panels and adjacent construction abut.
- B. Mount pressure relief vents, and temperature alarms on refrigerator and make provision for connection by Electrical Work Contractor.
- C. Floor Screeds:
  - 1. Install floor screeds at inner perimeter of a finished insulated floor slab.
  - 2. Join floor screeds to wall panels by means of locking devices.
  - 3. Install floor screeds under each interior partition wall in compartmentalized boxes.
  - 4. Set floor screeds with every part of screed resting on concrete floor slab.
  - 5. Use of shims will not be permitted.
  - 6. Attach floor screeds to concrete floor slab with lag bolts thru vertical portion of screed.
    - a. Use 3/8 inch lag bolts set through center of screed into expansion shield (or pressure treated or redwood sleeper). Use a minimum of two lag bolts in screeds of 23 inch lengths, and a minimum of

three lag bolts in screeds of 46 inch lengths. Bolt length shall be as required for 3 inch penetration of floor.

**3.03 PENETRATIONS THRU PREFABRICATED WALK-IN REFRIGERATED BOXES**

- A. Size field penetrations thru boxes for refrigerant piping and electric conduit 1/2 inch larger than the outside diameter of pipe (including insulation) or conduit, unless otherwise specified.
- B. Carry insulation on refrigerant piping thru penetrations of boxes.
- C. Pack spaces around refrigerant piping, hanger rods, conduit etc., with spray foam insulation and seal with Type 1D sealant. See Section 079200.

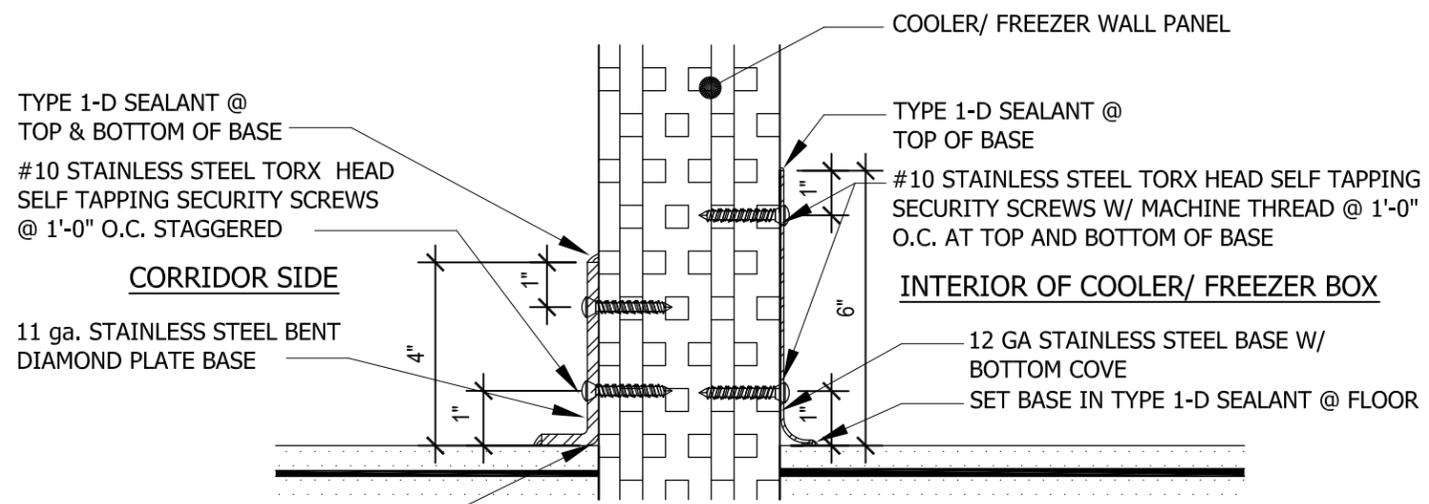
**3.04 FIELD QUALITY CONTROL**

- A. Inspect complete installation prior to start-up.
- B. Supervise initial start-up of refrigeration system. Make all necessary adjustments to system.
- C. Operate system for a sufficient length of time in order to prove the system can achieve and maintain design temperature of box.

**END OF SECTION**

DRM:klr

DATE PLOTTED: Thu, 15 Oct 2015 - 3:05pm  
 FILE LOCATION: H:\NYS Office of General Services\05014-02 Fishkill CF Kitchen 1-25-10 Modified\Addenda\_ReBid\05014-05\_SKA\_01.dwg



**9** **DETAIL**  
 3" = 1'-0"

REFER TO SHEET A-505 FOR ADDITIONAL INFORMATION



NYS OFFICE OF GENERAL SERVICES

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DEPARTMENT OF CORRECTIONS  
 AND COMMUNITY SUPERVISION

**CONSTRUCTION**

REHABILITATE KITCHEN  
 AND MESS HALL  
 BUILDING NO. 21

FISHKILL CORRECTIONAL FACILITY  
 PROSPECT STREET  
 BEACON, NEW YORK

DATE	SUBMISSION / PHASE:
10/16/15	REVISION NO. 1

PROJECT NUMBER:	42646 - C
DESIGNED BY:	DAG
DRAWN BY:	DAG
CHECKED BY:	
APPROVED BY:	
SCALE:	AS NOTED

SHEET TITLE:  
 FREEZER / COOLER DETAIL

**SKA-01**

SHEET 1 OF 1

**ADDENDUM DRAWING 10/16/2015**