



ADDENDUM #1

July 18, 2014

Re: HACC, Central Pennsylvania's Community College
Blocker 116 Data Center
Cooling and Emergency Power
Solicitation # RFB15-03

From: Eastern PCM, LLC
Construction Manager – HACC
645 N. 12th Street, Suite 200
Lemoyne, PA 17043

To: All Planholders

This Addendum is hereby made part of the Plans and Project Manual dated July 8, 2014 for the above referenced project. The provisions of this Addendum are intended to supplement the provisions of the Plans and Project Manual and/or supersede them where contradictory thereto.

This Addendum contains changes to the requirements of the Plans and Project Manual. Such changes shall be incorporated into the Plans and Project Manual and shall apply to work with the same meaning and force as if they had been included in the original Plans and Project Manual. Where this Addendum modifies a portion of a paragraph or phrase of the Project Manual, the remaining unmodified portion of the paragraph or phrase shall remain in force.

The conditions and terms of the Plans and Project Manual shall govern work described in this Addendum. Whenever the conditions of work, or the quality or quantity of materials or workmanship are not fully described in this Addendum, the conditions of work etc. included in the Plans and Project Manual for similar items of work shall apply to the work described in this Addendum. If no similar items of work are included in the Plans and Project Manual, the quality of material and workmanship shall be subject to the written acceptance of the Architect.

1.1 PRE-BID MEETING MINUTES

Meeting minutes from the Pre-Bid Meeting held on July 15, 2014 are attached and are a part of this Addendum. In the event of a conflict between the information contained in the Pre-Bid Meeting Notes and the Drawings, Specifications and responses to questions contained in this Addendum, the latter shall take precedence.

1.2 CLARIFICATIONS

- A. The Owner will provide the following utilities: water and power. All other temporary utilities will be the responsibility of the Contractor, including sanitary facilities. Public toilet rooms on Campus will not be made available for the Contractor and/or Subcontractors. The location of temporary sanitary facilities will be determined prior to the start of construction.
- B. A public bid opening will immediately follow the receipt of Bids. The location of the public bid opening will be addressed via Addendum.

1.3 CHANGES TO THE DRAWINGS

A. Drawing H100 – PARTIAL FLOOR PLANS – MECHANICAL

- 1. REVISE Note 2 to read: “Install refrigerant piping below existing raised floor. Size, trap, and install refrigerant piping per unit manufacturer’s recommendations. Piping shall be supported by pipe stand or pipe piers at intervals as indicated in specifications.”
- 2. REVISE Note 4 to read: “Refrigerant Piping shall rise up in existing chase and shall extend to roof. From the point of rise indicated on the drawings, the piping shall be installed above ceiling of the adjacent lobby, shall rise up through an existing chase on the second floor, and shall rise up through the third floor mechanical room up to the air cooled condensers located on the roof. The replacement piping shall follow the route of the existing refrigerant piping being removed under demolition.”

B. Drawing S101 – GENERAL STRUCTURAL NOTES, SECT.-D ROOF FRAMING PLAN, DUNNAGE FRAMING PLAN, SECTIONS AND DETAILS

- 1. REPLACE this sheet in its entirety.

1.4 ATTACHMENTS

- A. Pre-Bid Meeting Minutes, Dated July 15, 2014
- B. Drawing S101 – GENERAL STRUCTURAL NOTES, SECT.-D ROOF FRAMING PLAN, DUNNAGE FRAMING PLAN, SECTIONS AND DETAILS, Revised July 18, 2014

END OF ADDENDUM



Please sign and return this page, via fax, to Eastern PCM, LLC at (717) 233-1666 indicating receipt of this Addendum.

**HACC, Central Pennsylvania's Community College
Blocker 116 Data Center
Cooling and Emergency Power
Solicitation # RFB15-03**

Addendum #1 has been received.

Company: _____
Print Company Name

Received By: _____
Print Name Signature

Date: _____

Please check one:

- _____ We are bidding as a prime contractor
- _____ We are not bidding
- _____ We are a sub-contractor

d) Substantial Completion: December 18, 2014

- 1.4 All questions are to be directed to the office of the Construction Manager in writing via fax or e-mail (attn.: Sarah Centini): Fax (717) 233-1666, E-mail: epcm@easternpcm.com. The last day for questions is July 24, 2014, 12:00 PM.
- 1.5 Addenda are expected to be issued via fax on the following dates subject to number and substance of questions received:
- i. Addendum No. 1 – Expected July 18, 2014; Including Meeting Minutes from the Pre-Bid Meeting
 - ii. Addendum No. 2 – To be determined, if needed
- 1.6 This is a prevailing wage project. Refer to specification section 00820 for rate determination.
- 1.7 The building permit will be obtained and paid for by the Owner, if required. Any trade specific permits (i.e. Electrical, Plumbing, etc.) are to be obtained and paid for by applicable contractors in accordance with jurisdictional requirements
- 1.8 Project Overview – Scope of Work
- a) The work consists of selective demolition and upgrades to the mechanical and electrical infrastructure serving Blocker Hall's Data Center including, but not limited to, the installation of a new generator, busway, UPS system, cable tray and cooling system. Existing demountable partitions and ceilings will be demolished. The existing raised floor will remain, however the cooling system in the raised floor will be abandoned and a new cooling system will be installed. Wiring for servers will be relocated to the new cable tray. A new UPS will be installed in the Data Center. A new generator will be installed on the roof.
 - b) A Construction Phasing Plan is noted on the Bid Documents. Mr. Unger described the Phasing Plan and stated that the Contractor who receives the work will be required to submit the Phasing Plan with their Project Schedule before the start of the work.
 - c) Coordination of shutdowns (mechanical and electrical) must be coordinated with the College through Eastern PCM. Coordination will be critical. Equipment located in the Data Center serves all of HACC's campuses and must remain operational throughout construction with the exception of planned interruptions / shutdowns.
- 1.9 Temporary dust protection is critical in order to protect the equipment in the Data Center. Dust protection is addressed in the Bid Documents.
- 1.10 Temporary signage requirements are included in the Bid Documents.
- 1.11 Contractor parking and the dumpster location will be established prior to the start of the project.
- 1.12 The Contractor will be required to perform daily cleanup of occupied areas. Ms. Centini stated that Blocker Hall will be fully operational throughout construction. Entrances and exits must remain open and all areas of the building must remain safe.
- 1.13 Ms. Centini noted that Blocker Hall's roof is under warranty, therefore all roof penetrations need to be performed by a Tremco approved contractor. See plans and project manual for requirements.



- 1.14 A Single Prime contract will be awarded for this project.
- 1.15 Eastern PCM will address whether asbestos is a concern via Addendum.
- 1.16 A raised floor tile was removed during the site visit to allow attendees to view the underfloor conditions. Existing conditions are detailed in the Bid Documents.
- 1.17 Eastern PCM will coordinate with HACC Facilities to obtain information on the manufacturer of the existing raised floor tile.
- 1.18 Contractors are to schedule additional site visits through Eastern PCM. HACC is closed on Fridays until August 15, 2014.
- 1.19 A site tour was conducted. Attendees were provided access to the Data Center, Mechanical Room, Mechanical Penthouse, Roof, and first and second floor Electrical Closets.

Respectfully Submitted,
Peter J. Shkuda, Eastern PCM, LLC

The above summations are the interpretation of the author as to the items discussed and the decisions reached. Corrections or additions to these minutes are to be made in writing and sent to the attention of the writer no later than 5 days after receipt; otherwise, these minutes will stand as written.

cc: All Attendees
Monique Baylor
Bill Morgan



GENERAL CONDITIONS

- THESE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS AND CONTRACT DOCUMENTS.
- THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT SHALL CONFORM TO THE REFERENCE CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN. THE LATEST EDITIONS SHALL APPLY UNLESS NOTED OTHERWISE.
- CONSTRUCTION METHODS, PROCEDURES, AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
- COORDINATION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS TO VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, AND OTHER PROJECT REQUIREMENTS ARE THE CONTRACTOR'S RESPONSIBILITY. ALL REQUIRED OPENINGS, SLEEVES, OR OTHER COMPONENTS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
- IMPOSED CONSTRUCTION LOADS, INCLUDING CRANE LOADS, IN EXCESS OF THE STATED DESIGN LOADS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE IMPOSITION OF SUCH LOADS.
- ALL INFORMATION OF EXISTING CONSTRUCTION, INCLUDING CONSTRUCTION COMPOSITION AND DIMENSIONS, WAS TAKEN FROM OWNER FURNISHED DRAWINGS OF PAST CONSTRUCTION AND SHALL BE FIELD VERIFIED. DEVIATIONS FROM THOSE SHOWN SHALL BE FURNISHED TO THE ENGINEER.

DESIGN CRITERIA

- BUILDING CODE:** THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE, AND BY REFERENCE THE INTERNATIONAL BUILDING CODE 2009, AND ASCE 7-05 (BY REFERENCE OF IBC)
- DESIGN GRAVITY LOADS:** ROOF DEAD: 53 psf ROOF LIVE: 60 psf
- ROOF SNOW LOAD:**
 - GROUND SNOW LOAD, $F_g = 30$ psf
 - EXPOSURE FACTOR, $C_e = 1.0$
 - IMPORTANCE FACTOR, $I = 1.0$
 - THERMAL FACTOR, $C_t = 1.0$
 - FLAT ROOF SNOW, $P_f = 0.7(F_g)(C_e)(I)(C_t) = 21$ psf

STRUCTURAL STEEL

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE MOST RECENT ADDITIONS AND REVISIONS REFERENCED BY THE CURRENT BUILDING CODE OF THE FOLLOWING CODES AND STANDARDS:
 - "STEEL CONSTRUCTION MANUAL", AMERICAN INSTITUTE OF STEEL CONSTRUCTION (INCLUDING SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, AND AISC CODE OF STANDARD PRACTICE).
 - "DETAILING FOR STEEL CONSTRUCTION", AMERICAN INSTITUTES OF STEEL CONSTRUCTION.
 - "STRUCTURAL WELDING CODE ANSI/AWS D1.1", AMERICAN WELDING SOCIETY.
- MATERIAL SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - STRUCTURAL W SHAPES ASTM A992, $F_y = 50$ ksi
 - OTHER SHAPES & PLATES ASTM A36
 - STRUCTURAL TUBING ASTM A500; GRADE B, $F_y = 46$ ksi
 - STRUCTURAL PIPE ASTM A53, GRADE B, $F_y = 46$ ksi OR ASTM A501, $F_y = 36$ ksi
 - HIGH-STRENGTH BOLTS ASTM A325-N
 - THREAD-ROD ASTM A36
 - WELDING ELECTRODES AWS E5.1 OR A5.5 E70XX
 - EXPANSION BOLTS POWERS FASTENERS POWER-BOLT, OR APPROVED EQUAL
 - ADHESIVE ANCHORS POWERS FASTENERS AC100+ GOLD, OR APPROVED EQUAL

- ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATIONS. ALL CONNECTIONS MADE WITH UNMARKED NUTS AND BOLTS WILL BE REJECTED.
- UNLESS OTHERWISE INDICATED, ALL CONNECTIONS SHALL BE CONCENTRIC (I.E. DOUBLE SIDED). ALL CONNECTIONS SHALL CONFORM TO AISC REQUIREMENTS, AND SHALL BE DESIGNED FOR THE LOAD INDICATED ON THE PLANS. IF LOADS ARE NOT PROVIDED A MINIMUM SHEAR CAPACITY OF 15.0 KIPS SHALL BE PROVIDED.
- ALL STEEL EXPOSED TO WEATHER SHALL BE G60 HOT DIPPED GALVANIZED. ALL MARRED OR DAMAGED GALVANIZING SHALL BE TOUCHED-UP WITH TWO COATS OF GALVANIZING PAINT.
- THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
- THE FRAMING SHOWN ON THE COMPLETED DRAWINGS HAS BEEN DESIGNED FOR THE LOADS INDICATED ON THE DRAWINGS. THE FABRICATOR AND ERECTOR ARE SOLELY RESPONSIBLE FOR THE DESIGN OF TEMPORARY BRACING AND RECOMMENDED ERECTION PROCEDURES.
- CUTTING OR BURNING OF STRUCTURAL STEEL IN THE FIELD IS NOT ALLOWED.
- EXPANSION AND ADHESIVE ANCHORS SHALL HAVE AN EMBEDMENT DEPTH OF AT LEAST 7x BOLT DIAMETER.

SUBMITTALS:

- SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS ARE PART OF THE STRUCTURAL DESIGN. FAILURE BY THE CONTRACTOR TO SUBMIT SUCH DRAWINGS FOR REVIEW WILL DELAY PAYMENT FOR SUCH ITEMS AND WORK RELATED THERETO.
- ALL CONTRACTOR PROPOSED STRUCTURAL SUBSTITUTIONS, INCLUDING CONCRETE ADDITIVES, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF A SUBCONTRACTOR.

THE FOLLOWING SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW:

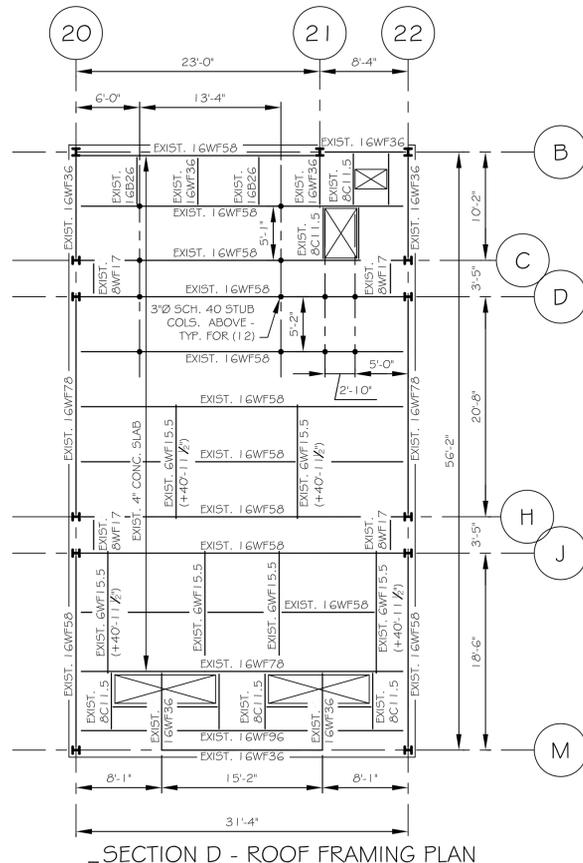
- STRUCTURAL STEEL**
 - STEEL ERECTION AND FABRICATION DRAWINGS CLEARLY INDICATING MEMBER SIZES, ELEVATIONS, AND ALL FIELD AND SHOP CONNECTION.
 - WELD CERTIFICATES FOR ALL WELDERS ON THE PROJECT.

TESTING AND INSPECTION:

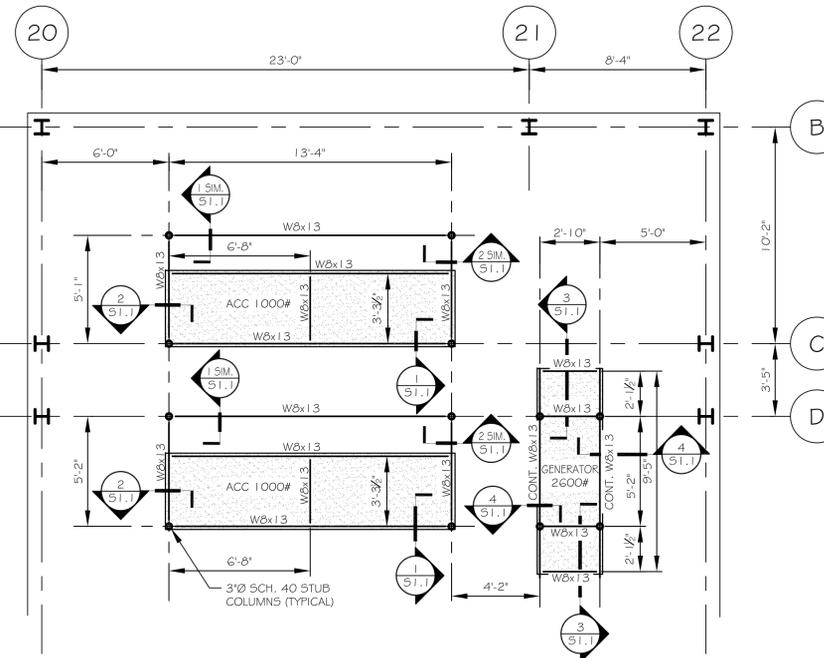
- A QUALIFIED, INDEPENDENT INSPECTION AGENCY SHALL BE RETAINED TO PERFORM ALL TESTING AND INSPECTIONS. THE AGENCY MUST HAVE AN ENGINEER, REGISTERED IN THE JURISDICTION OF THE PROJECT, IN CHARGE OF ALL TESTING AND INSPECTIONS. THE AGENCY MUST ALSO HAVE EXPERIENCE IN THE TESTING AND INSPECTION OF MATERIALS AND CONSTRUCTION REQUIRED HEREIN.
- TESTING AGENCY SHALL SUBMIT WRITTEN REPORTS TO THE CONTRACTOR, OWNER AND STRUCTURAL ENGINEER WITHIN 3 DAYS OF THE TESTING/INSPECTION. THE CONTRACTOR SHALL BE IMMEDIATELY NOTIFIED OF ANY WORK FOUND TO BE DEFICIENT.
- ANY RETESTING OF MATERIALS/WORK FOUND TO BE DEFICIENT SHALL BE DONE BY THE INSPECTION AGENCY AT THE CONTRACTOR'S EXPENSE.

THE FOLLOWING TESTING AND INSPECTIONS SHALL BE PERFORMED:

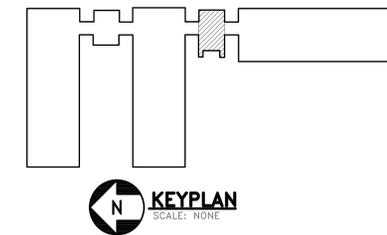
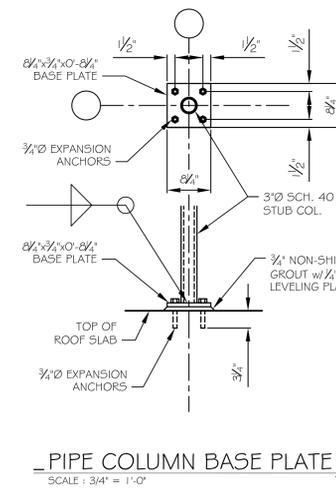
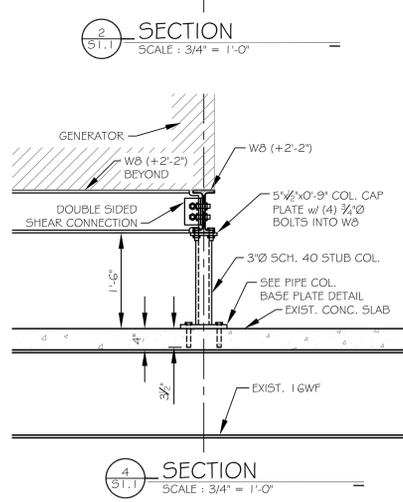
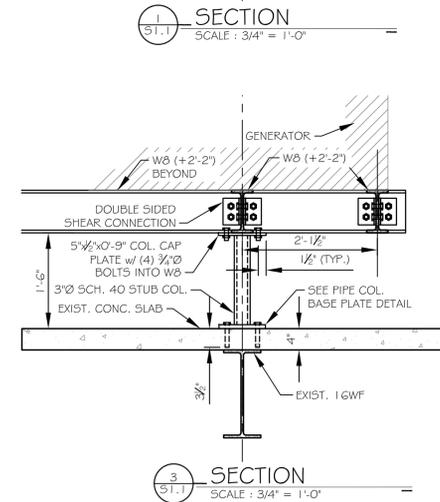
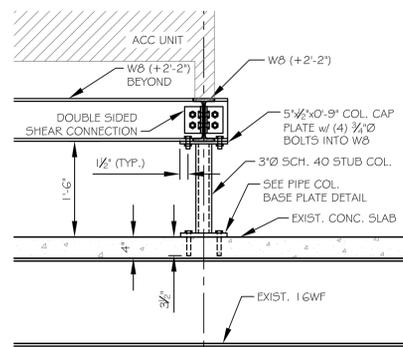
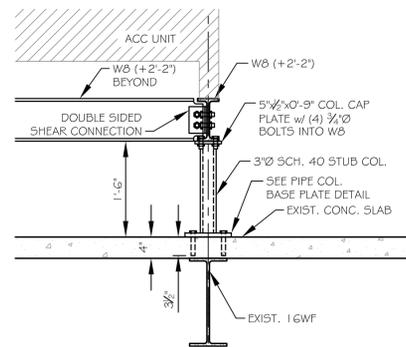
- STRUCTURAL STEEL**
 - VISUALLY INSPECT ALL FIELD WELDS AND TEST 10% OF BOLTED CONNECTIONS TO VERIFY COMPLIANCE WITH APPROVED SHOP DRAWINGS AND THE CONTRACT DOCUMENTS.
 - TEST ANY FIELD WELDS FOR WHICH VISUAL INSPECTION INDICATES POOR QUALITY AND/OR AN UNUSUAL CONDITION USING THE MAGNETIC PARTICLE METHOD.
 - TEST 100% OF FULL PENETRATION BUTT WELDS USING THE ULTRASONIC METHOD.
 - WELDING INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH THE AWS CODE.
 - TEST 10% OF ALL SHEAR STUDS USING THE HAMMER TEST PER AISC RECOMMENDATIONS.



- TOP OF STEEL ELEV. MEASURED FROM FIN. FLR. ELEV. 321.00' U.N.O.
- TOP OF STEEL ELEVATION SHOWN THUS (+0'-0\") ON PLAN.
- TOP OF STEEL ELEVATION (+40'-9\") U.N.O.



- TOP OF STEEL ELEV. MEASURED FROM FIN. FLR. ELEV. 321.00' U.N.O.
- TOP OF STEEL ELEVATION SHOWN THUS (+0'-0\") ON PLAN.
- TOP OF STEEL ELEVATION (+43'-36\") U.N.O.
- CONTRACTOR SHALL VERIFY FRAMING DIMENSIONS WITH MECHANICAL EQUIPMENT TO VERIFY PROPER BRACING OF PIPE COLUMN. (SEE MECHANICAL FABRICATION)
- REMOVE ALL EXISTING DUNNAGE FRAMING NOT BEING UTILIZED.



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 We Make Buildings Work™

B116 DATA CENTER
 COOLING AND EMERGENCY POWER
HACC WILDWOOD CAMPUS
 1 HACC DRIVE
 HARRISBURG, PA 17110

SEAL

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	7/18/14

PROJECT NO: KBRA: 14050

DATE: JULY 3, 2014

DESIGNED BY: KBR

DRAWN BY: JMR

CHECKED BY: KBR

DRAWING TITLE

GENERAL STRUCTURAL NOTES,
 SECT.-D ROOF FRAMING PLAN,
 DUNNAGE FRAMING PLAN,
 SECTIONS AND DETAILS

DRAWING NUMBER

S1.1