This ADDENDUM forms part of the contract documents and modifies and takes precedence over the original bid documents, as noted in the attached documents. Original items of the plans and specifications not herein modified, amended, voided or suspended shall remain in effect. It is the responsibility of the Bidder to notify and/or distribute this ADDENDUM to those sub-bidders who have received prints. Acknowledge receipt of this ADDENDUM in the space provided on the Bid Form.

SPECIFICATIONS REVISIONS / CLARIFICATIONS

05 12 00 – Structural Steel Framing
• Changed Part 1.7 Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category BU or is accredited by the IAS Fabricator Inspection Program for Structural Steel (Acceptance Criteria 172).

07 81 00 – Fireproofing
This section is to be deleted from project manual. Spray fireproofing will no longer be used in project.

DRAWING REVISIONS / CLARIFICATIONS

GI001:
• Updated Sheet Index to include revisions.

S011:
• Changed Schedule of Special Inspection Services to include Fire-Resistant Penetrations & Joints.

AD101:
• Modified note 0207.

AE122:
• Deleted note 0207 and added note 0921.
Addendum

AE501:

FD101:
- Sprinkler scope has been changed to now remove all sprinkler piping, heads, hangers, etc., back to the zone control valve assembly in order to avoid a trapped section of piping when the main to the first floor is raised. This has been reflected on keynote 1 for this sheet.

FP101:
- A new sprinkler system is now required to be installed for the first floor, so keynotes have been updated to reflect this change in scope.

BIDDER QUESTIONS

1. Spec 05 12 00 - 1.7 - A eliminates several otherwise qualified fabricators in our area. Can the requirement for AISC certification be waived?
   See revised spec Section 05 12 00.

2. In regard to the general conditions, Contract time is 270 Days from the notice to proceed. Can there be any negotiation on the time period based on the exponentially increasing material lead times? ETSU needs the project to be completed for the 2022 Fall Semester. While the owner and design team understand the challenge of current material lead times, the project must be completed in 270 days to provide adequate time to furnish the building and move then occupants in prior to the beginning of the semester.

3. In regard to metal fabrication, the specifications call for the fabricator to be AISC certified. Can this certification be waived?
   See revised spec Section 05 12 00.

4. In regard to Overhead Doors, On the Overhead coiling door (137C), the door is inside the building.
   4a. Does the door need to be insulated?
   No – Refer to Section 08 33 23
   4b. Is this door to be a fire-rated door?
   No – Refer to Section 08 33 23
   4c. Do they need a lock on that door since there are two man doors that go into the same room? With a chain hoist operation, sometimes the chain is padlocked to the chain keeper.
   Response: A standard mortise cylinder lock is required for door 137C – Refer to Section 08 33 23
5. On drawing S102 under Key Notes, note #3 states to verify the wall thickness of the existing cast iron columns in a nondestructive manner. Will drilling a small hole less than 5/16” in diameter to measure the steel column be considered nondestructive? Does this actually need to be performed by an independent third party?

It is the means and methods of the contractor to determine column wall thickness. Testing methods shall be submitted to structural engineer of record for review and approval. This does not have to be performed by an independent third party.

6. It appears that there are no prevailing wage rates required on this project. Can you confirm?

There is no requirement for prevailing wage rate.

7. Bid Attendance will be via Zoom. Use the information below to join.

One tap mobile: US: +13017158592,,93512516754# or +13126266799,,93512516754#

Meeting URL: https://etsu.zoom.us/j/93512516754?pwd=U0NNSUtMM0xTYUlIVIQ5WUp4MG9TZe99&from=addon

Meeting ID: 935 1251 6754

Passcode: 367762

Join by Telephone

Dial: US: +1 301 715 8592 or +1 312 626 6799 or +1 929 205 6099 or +1 253 215 8782 or +1 346 248 7799 or +1 669 900 6833

Meeting ID: 935 1251 6754
SECTION 05 12 00 - STRUCTURAL STEEL FRAMING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Structural steel.
   2. Shrinkage-resistant grout.

1.3 DEFINITIONS

A. Structural Steel: Elements of the structural frame indicated on Drawings and as described in ANSI/AISC 303.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

A. Product Data:
   2. High-strength, bolt-nut-washer assemblies.
   3. Shrinkage-resistant grout.

B. Shop Drawings: Show fabrication of structural-steel components.
   1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
   2. Include embedment Drawings.
   3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain.
   4. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify pretensioned and slip-critical, high-strength bolted connections.
1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and.

B. Welding certificates.

C. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.

D. Mill test reports for structural-steel materials, including chemical and physical properties.

E. Product Test Reports: For the following:
   1. Bolts, nuts, and washers, including mechanical properties and chemical analysis.

F. Survey of existing conditions.

G. Source quality-control reports.

H. Field quality-control reports.

1.7 QUALITY ASSURANCE

A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category BU or is accredited by the IAS Fabricator Inspection Program for Structural Steel (Acceptance Criteria 172).

Alternatively, provide a 3rd party plant inspection report by an independent inspection agency that is satisfactory to the Engineer of Record at the fabricator’s expense. The inspection and report is to be performed by an American Welding Society Certified Welding Inspector (AWS-CWI). All procedures must be in accordance with the ANSI/AISC 360-16 Specification for Structural Steel Buildings. This report must be submitted to and approved by the Engineer of Record (EOR) prior to the submission of shop drawings. The report shall at minimum address the following:

Services Requested By: Company Name
Elevation(s)/Location(s): Fabrication Shop
Type of Observation: Shop Inspection
Referenced Documents: AWS D1.1, AISC Table N5.4-1 through Table N5.4-3
Exceptions: None
Comments:
A (CWI Company) representative was onsite, at XXXXX, to perform a shop inspection and to observe if XXXXX is following the above referenced documents. Please see the noted observations below:
• **Material, Fastener, and Consumable Documentation**
  - Material test reports (MTR’s) were made available for review and are currently being maintained for the XXXXXX jobsite. The MTR’s should be maintained during and after the completion of the job for traceability.

• **Quality Control Program**
  - Fabricator XXXXXX has a trackable QC program. All fabricated assemblage has a master QC record indicating when the part was inspected, who the QC is, which welder fabricated it, Heat #’s associated with the material, and trackable piece markings. The QC program and records were observed being maintained through the guidance of the AISC manual.

• **Shop Welds**
  - A periodic shop inspection was performed prior to, during, and after welding completed parts for the XXXXX project. The welders were observed performing fillet welds and full penetration groove welds per the above referenced documents and per XXXXXX SWPS documents. All welds performed were observed to be visually acceptable per AWS specifications/standards.

B. **Welding Qualifications:** Qualify procedures and personnel in accordance with AWS D1.1/D1.1M.

  1. Welders and welding operators performing work on bottom-flange, demand-critical welds shall pass the supplemental welder qualification testing, as required by AWS D1.8/D1.8M. FCAW-S and FCAW-G shall be considered separate processes for welding personnel qualification.

C. **Installer Qualifications:** AISC Quality Certification Program participant designated as AISC-Certified Erector, Category ACSE or 10 years demonstrated experience with similar type projects and approved by the EOR. Both shall submit WPS and welder qualifications prior to steel erection.

1.8 **DELIVERY, STORAGE, AND HANDLING**

A. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.

  1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.

B. Store fasteners in a protected place in sealed containers with manufacturer's labels intact.

  1. Fasteners may be repackaged provided Owner's testing and inspecting agency observes repackaging and seals containers.
  2. Clean and relubricate bolts and nuts that become dry or rusty before use.
3. Comply with manufacturers' written recommendations for cleaning and lubricating ASTM F3125/F3125M, Grade F1852 bolt assemblies and for retesting bolt assemblies after lubrication.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Comply with applicable provisions of the following specifications and documents:

1. ANSI/AISC 303.
2. ANSI/AISC 360.
3. RCSC's "Specification for Structural Joints Using High-Strength Bolts."

B. Connection Design Information:

1. Option 1: Connection designs have been completed and connections indicated on the Drawings.

C. Construction: Shear wall system.

2.2 STRUCTURAL-STEEL MATERIALS

A. W-Shapes: ASTM A992/A992M.
B. Channels, Angles: ASTM A36/A36M.
C. Plate and Bar: ASTM A36/A36M.
D. Welding Electrodes: Comply with AWS requirements.

2.3 BOLTS AND CONNECTORS

A. High-Strength A325 Bolts, Nuts, and Washers: ASTM F3125/F3125M, Grade A325 (Grade A325M), Type 1, heavy-hex steel structural bolts; ASTM A563, Grade DH (ASTM A563M, Class 10S), heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers; all with plain finish.

2.4 SHRINKAGE-RESISTANT GROUT

A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C1107/C1107M, factory-packaged, nonmetallic aggregate grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.
2.5 FABRICATION

A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate in accordance with ANSI/AISC 303 and to ANSI/AISC 360.
   1. Camber structural-steel members where indicated.
   2. Fabricate beams with rolling camber up.
   3. Identify high-strength structural steel in accordance with ASTM A6/A6M and maintain markings until structural-steel framing has been erected.
   4. Mark and match-mark materials for field assembly.

B. Thermal Cutting: Perform thermal cutting by machine to greatest extent possible.
   1. Plane thermally cut edges to be welded to comply with requirements in AWS D1.1/D1.1M.

C. Bolt Holes: Cut, drill, or punch standard bolt holes perpendicular to metal surfaces.

D. Finishing: Accurately finish ends of columns and other members transmitting bearing loads.

E. Holes: Provide holes required for securing other work to structural steel and for other work to pass through steel members.
   1. Cut, drill, or punch holes perpendicular to steel surfaces. Do not thermally cut bolt holes or enlarge holes by burning.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated on Drawings.

3.3 ERECTION

A. Set structural steel accurately in locations and to elevations indicated and in accordance with ANSI/AISC 303 and ANSI/AISC 360.

1. Set plates for structural members on wedges, shims, or setting nuts as required.
2. Promptly pack shrinkage-resistant grout solidly between bearing surfaces and plates, so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for grouting.

C. Maintain erection tolerances of structural steel within ANSI/AISC 303.

D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that are in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.

1. Level and plumb individual members of structure.

E. Splice members only where indicated.

F. Do not use thermal cutting during erection.

G. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

3.4 FIELD CONNECTIONS

A. High-Strength Bolts: Install high-strength bolts in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts" for bolt and joint type specified.

1. Joint Type: Snug tightened.

B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.


3.5 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a special inspector to perform the following special inspections:

1. Verify structural-steel materials and inspect steel frame joint details.
2. Verify weld materials and inspect welds.
3. Verify connection materials and inspect high-strength bolted connections.

B. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.

2. Welded Connections: Visually inspect field welds in accordance with AWS D1.1/D1.1M.

END OF SECTION 05 12 00
**STATEMENT OF SPECIAL INSPECTIONS**

**PROJECT: ETSU BUILDING 2 RENOVATION**
**LOCATION: BUILDING #2 DOGWOOD AVE, VA MEDICAL CENTER CAMPUS, MOUNTAIN HOME, TN 37684**

This statement of special inspections is submitted as a condition for permit issuance in accordance with the special inspections requirements of the project, and the following special inspections are required.

**SPECIAL INSPECTOR QUALIFICATIONS.** This statement of special inspections was prepared by the following designers of record:

- Structural
- Architectural
- Mechanical
- Other

**SCHEDULE OF SPECIAL INSPECTION SERVICES.**

The following comprises the required schedule of special inspections for this project. The special inspections required are designated as follows:

- A =ancybox
- B = box
- C = box
- D = box
- E = box

<table>
<thead>
<tr>
<th>TASK REQD</th>
<th>FREQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. SPECIAL INSPECTOR (SI-1)</td>
<td>3. TESTING AGENCY (TA-2)</td>
</tr>
<tr>
<td>A1</td>
<td>A2</td>
</tr>
</tbody>
</table>

**INSPECTION TASK REFERENCE FOR CRITERIA AISC 360 IBC S011**

- Minimum Inspection Program for Engineered Masonry in Risk Category IV Structures. Engineered Masonry Structures are those designed in accordance with portions of the TMS 402-13 / ACI 530-13/ASCE 5-13 other than Part 4 or Appendix A.

**INSPECTION TASK REFERENCE FOR CRITERIA AISC 360 IBC S011**

- Special Inspections for Wind Resistance
- Special Inspections for Seismic Resistance

**SPECIAL INSPECTIONS CONSTRUCTION DOCUMENTS**

-w/...
ALL DEMOLITION SHALL BE SAW CUT TO NEAT, STRAIGHT LINES FOR WORK TO TAKE PLACE. UPON COMPLETION OF WORK DEMOLISH AND REMOVE PROTECTION IN ALL AREAS OF EXISTING STRUCTURE WHERE NO WORK IS DAMAGED IN ACT OF REMOVAL FROM ITS CURRENT LOCATION, NOTIFY DAMAGE AND STORED ON SITE IN A SECURE LOCATION. ITEMS TO BE SALVAGED. THE CONTRACTOR SHALL MOVE ALL ITEMS SALVAGED FOR OWNER WILL REMOVE ANY WANTED ITEMS PRIOR TO NOTICE TO

1. ALL EXISTING PIPE TO BE REMOVED OR MODIFIED TO FIT IN NEW BASALT AND/OR SEALED AS REQUIRED BY APPLICABLE CODES.
2. ACCESSIBLE PORTIONS OF UTILITIES, INCLUDING ALL MOUNTING HARDWARE AND HOUSING, TO BE REMOVED IN THEIR ENTIRETY DURING ALL DEMOLITION IN AREAS WHERE WORK COULD UNCOVER INFILLED AND/OR SEALED ACM. ALL DEMOLITION SHALL BE SPECIFICATION SECTION 02 82 13
3. THE PRESENCE OF LEAD CONTAMINATED PAINT HAS BEEN DETECTED. OSHA ACTION LEVEL LESS LIKELY TO RESULT IN AIRBORNE LEAD EXPOSURE IN EXCESS OF THE CONTAINING LOW LEVELS OF LEAD, AS IS PROPOSED AT THIS SITE, ARE PERFORMED WITH MINIMAL DUST GENERATION, ON SURFACES WORK PRACTICES INCLUDING THE DISTURBANCE OF PAINT SYSTEMS DESTRUCTIVE ACTIONS (SANDING, GRINDING, AND AT COLUMN ON "G/10" OF COLUMN PRIOR TO ANY WORK. TYPICAL AT GRID LINE "F"
4. THE CONTRACTOR IS ADVISED THAT THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) DOES NOT RECOGNIZE A THRESHOLD LIMIT VALUE (TLV) FOR LEAD. OSHA RECOMMENDS A LIMIT OF 50 MICROGRAMS PER CUBIC KINGDOM (50 MG/KINGDOM) OF AIRBORNE LEAD DUST AS FALLOUT FROM LEAD-Paint REMOVAL OR DEMOLITION PROCEDURES AND LOCATIONS OF ACM. ALL DEMOLITION SHALL BE SPECIFICATION SECTION 02 82 13
5. EXISTING PIPE TO BE REMOVED OR MODIFIED TO FIT IN NEW RATED STAIR ENCLOSURE IS COMPLETE CONSTRUCTION. DEMOLISH WHEN NEW HATCH TO REMAIN DURING
6. EXISTING FIRE ALARM NAC PANEL TO REMAIN, SEE FIRE PROTECTION DRAWINGS
7. DEMOLITION PLANS
8. HATCH TO REMAIN DURING
9. STRUCTURAL DRAWINGS AND GENERAL NOTE #7.
10. ALL EXISTING HAND RAILS ON WALLS, TYP. REMOVE EXISTING HAND RAILS ON WALLS, TYP.
11. RELocate EXISTING ELECTRICAL PANELS TO BE REMOVED, SEE ELECTRICAL DRAWINGS.
12. REMOVE EXISTING WINDOW AND PREPARE OPENING FOR NEW LOUVER. SEE MECHANICAL DRAWINGS.
13. REMOVE EXISTING HAND RAILS ON WALLS, TYP.
14. EXISTING ELECTRICAL PANELS TO BE REMOVED, SEE ELECTRICAL DRAWINGS.
15. REMOVE EXISTING HAND RAILS ON WALLS, TYP.
16. REMOVE EXISTING WINDOW AND PREPARE OPENING FOR NEW LOUVER. SEE MECHANICAL DRAWINGS.
17. REMOVE EXISTING WINDOW AND PREPARE OPENING FOR NEW LOUVER. SEE MECHANICAL DRAWINGS.
18. REMOVE EXISTING WINDOW AND PREPARE OPENING FOR NEW LOUVER. SEE MECHANICAL DRAWINGS.
19. REMOVE EXISTING WINDOW AND PREPARE OPENING FOR NEW LOUVER. SEE MECHANICAL DRAWINGS.
20. REMOVE EXISTING WINDOW AND PREPARE OPENING FOR NEW LOUVER. SEE MECHANICAL DRAWINGS.
MOUNTING HEIGHTS AND CLEARANCES

1. VERIFY AND COORDINATE FINISH FLOOR ELEVATIONS WITH CIVIL AND STRUCTURAL PRIOR TO COMMENCING DRAWINGS.

2. PROVIDE WOOD BLOCKING IN METAL STUD PARTITIONS FOR MOUNTING FIXTURES, ACCESSORIES, MILLWORK, SHELVING, etc.

3. 1 1/2" MINIMUM CLEARANCE FOR MOUNTING FIXTURES, ACCESSORIES, MILLWORK, SHELVING, etc.

4. MOUNTING OF ELECTRICAL FIXTURES AND EQUIPMENT:
   - 1/4" = 1'-0" SCALE
   - REFER TO AE122 AND AE101 FOR PARTITION TYPE DESCRIPTIONS.

5. CONDUCTING BAFFLE FOR DRESSING 110 / 111 / 112:
   - 110 - SINGLE AND DUAL HEIGHT ELECTRIC WATER COOLER
   - 111 - ELECTRIC HAND DRYER (SINGLE)
   - 112 - Recessed Fixtures

6. BABY CHANGING STATION:
   - MOUNTED ROBE HOOK

7. DRESSING 110 / 111 / 112:
   - BEYOND LINE OF WALL

8. ENLARGED FLOOR PLAN - LOBBY:
   - WALL HUNG ENTER/EVENT/EXIT SIGN
   - WALL HUNG ELEVATOR CALL BOX
   - WALL HUNG ROLLER SMOKE DETECTOR

9. SUBMITTAL REVIEW:
   - H6/04/21 ADDENDUM 1

10. ELEVATOR 104:
    - 1' - 3 1/2" CLR

11. 105:
    - 5'-10" CLR

12. 110 / 111 / 112:
    - 3'-5" CLR

13. DWGS. WALL TO BE FURRED OUT AROUND PANEL TO CONCEAL ELECTRIC PANEL, SEE ELECTRICAL DRAWINGS

14. CLARK NEXSEN

15. EAST TENNESSEE STATE UNIVERSITY

16. JOHNSON CITY, TN 37601

17. 1ST FLOOR

18. BUILDING #2 DOGWOOD AVE

19. 04.19.2021

20. ENLARGED FLOOR PLAN & TOILET ACCESSORIES

21. SPECIALTIES AND PIPING FIXTURES - MOUNTING HEIGHTS AND CLEARANCES

22. 2'-10" MINIMUM CLEARANCE

23. REFER TO SHEET AE501 FOR PARTITION TYPE DESCRIPTIONS.

24. REFER TO DRAWINGS FOR PARTITION TYPE DESCRIPTIONS.

25. REFER TO SHEET AE501 FOR PARTITION TYPE DESCRIPTIONS.

26. REFER TO DRAWS FOR PARTITION TYPE.