

Addendum

<i>Project Number</i> LGA# 16028	<i>Client / Project Title</i> Roane County Schools Life Skills Classrooms
<i>Addendum Number</i> Addendum One (001)	<i>Date</i> Friday, November 18, 2016
<i>Addendum Compiled By</i> Lewis Group Architects	
<i>Overview</i> To prime contractors and all others to whom drawings have been issued. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification. This addendum forms a part of the Contract Documents dated 10/28/2016	
<i>Prior Addenda</i> <ul style="list-style-type: none">• None	

This addendum supplements and modifies the Contract Documents as follows:

A. CHANGES TO PRIOR ADDENDA: None

B. CLARIFICATIONS:

1. Lintels at masonry openings to be installed in accordance with the supplemental structural drawings SK-1, SK-2, SK-3, SK-4, SK-5, SK-6, and SK-7 dated 11/18/2016.

C. CHANGES TO THE PROJECT MANUAL

1. Delete entire Section 00 01 10; TABLE OF CONTENTS, dated 9/23/2016
 - a. Insert entire revised Section 00 01 10, dated 11/18/2016.
2. Delete entire Section 00 11 15; ADVERTISEMENT FOR BIDS, dated 9/23/2016
 - a. Insert entire revised Section 00 11 15, dated 11/18/2016.
3. Insert new Section 08 11 13; HOLLOW METAL DOORS AND FRAMES, dated 11/18/2016.

D. CHANGES TO THE DRAWINGS

1. SHEET A1.1: FLOOR PLANS, dated 9/23/2016
 - a. In Detail 2/A1.1, delete the note reading "5/8" dowel x 6" smooth dowel at 18" o.c." and insert "1'-0" long 5/8" diameter smooth steel dowel at 18" o.c."
2. SHEET A1.1 FLOOR PLANS, dated 9/23/2016
 - a. In Detail 3/A1.1, change the dimension width of thickened slab footing from 16" to 18".

E. ATTACHMENTS

1. Section 00 01 10, dated 11/18/2016
2. Section 00 11 15, dated 11/18/2016
3. Section 08 11 13, dated 11/18/2016
4. Sheet SK-1, dated 11/18/2016
5. Sheet SK-2, dated 11/18/2016



Addendum
Addendum One (001)
Roane County Schools
Life Skills Classrooms

LGA# 16028
SBC# 000 / 000-00-0000
11/18/2016

6. Sheet SK-3, dated 11/18/2016
7. Sheet SK-4, dated 11/18/2016
8. Sheet SK-5, dated 11/18/2016
9. Sheet SK-6, dated 11/18/2016
10. Sheet SK-2, dated 11/18/2016

END OF ADDENDUM / ATTACHMENTS FOLLOW

SECTION 00 01 10 – TABLE OF CONTENTS**DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS**

00 01 07	Seals Page
00 01 10	Table Of Contents
00 01 15	List Of Contract Drawings
00 11 15	Advertisement for Bid
00 31 19	Existing Condition Information
00 41 00	Bid Form
00 41 13	Drug Free Workplace Affidavit
00 45 59	Criminal History Check
00 72 23	General Conditions of the Contract Construction AIA Document A201-1997
00 73 00	Supplementary Conditions

DIVISION 01 - GENERAL REQUIREMENTS

01 11 00	Summary of the Work
01 29 00	Payment Procedures
01 31 10	Weather Delays
01 32 00	Project Meetings
01 33 00	Submittal Procedures
01 40 00	Quality Requirements
01 42 00	References
01 50 00	Temporary Facilities and Controls
01 60 00	Materials and Equipment
01 63 00	Substitutions
01 63 10	Substitution Request Form
01 64 00	Owner Furnished Equipment
01 73 29	Cutting and Patching
01 77 00	Project Closeout

DIVISION 02 - EXISTING CONDITIONS

02 41 19	Selective Demolition
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DIVISION 03 - CONCRETE

03 10 00	Concrete Formwork
03 20 00	Concrete Reinforcement
03 30 00	Cast-In-Place Concrete

DIVISION 04- MASONRY

04 20 00	Unit Masonry
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DIVISION 05 - METALS

05 50 00	Metal Fabrications
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DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

06 10 53	Miscellaneous Rough Carpentry
06 40 23	Interior Architectural Woodwork
06 61 16	Solid Surfacing Fabrications

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

- 07 26 16 Below Grade Vapor Retarders
- 07 62 00 Sheet Metal Flashing and Trim
- 07 84 13 Penetration Firestopping
- 07 84 56 Fire Safing
- 07 92 00 Joint Sealants

DIVISION 08 - OPENINGS

- 08 11 13 Hollow Metal Doors and Frames
- 08 14 16 Flush Wood Doors
- 08 31 00 Access Doors
- 08 41 13 Aluminum Entrances and Storefronts
- 08 71 00 Door Hardware
- 08 80 00 Glazing

DIVISION 09 - FINISHES

- 09 22 16 Non-Structural Metal Framing
- 09 29 00 Gypsum Board
- 09 51 13 Acoustical Panel Ceilings
- 09 65 00 Resilient Flooring and Accessories
- 09 66 23 Epoxy Terrazzo Flooring
- 09 91 23 Painting

DIVISION 10 - SPECIALTIES

- 10 28 13 Toilet Accessories
- 10 44 00 Fire Protection Specialties

DIVISION 11 - EQUIPMENT

Not Used

DIVISION 12 - FURNISHINGS

Not Used

DIVISION 13 - SPECIAL CONSTRUCTION

Not Used

DIVISION 14 - CONVEYING EQUIPMENT

Not Used

DIVISION 21 - FIRE SUPPRESSION

- 21 05 00 - Common Work Results For Fire Suppression
- 21 10 00 – Water-Based Fire-Suppression Systems

DIVISION 22 – PLUMBING

- 22 05 00 - Common Work Results For Plumbing
- 22 05 19 – Meters and Gages for Plumbing Piping
- 22 05 23 – General-Duty Valves for Plumbing Piping
- 22 05 29 – Hangers and Supports for Plumbing Piping and Equipment
- 22 05 53 – Identification for Plumbing Piping and Equipment

22 07 00 – Plumbing Insulation
 22 11 16 – Domestic Water Piping
 22 13 16 – Drainage, Waste and Vent Piping
 22 13 19 – Sanitary Waste Piping Specialties
 22 33 00 – Electric Domestic Water Heaters
 22 40 00 – Plumbing Fixtures
 22 68 00 – Facility Natural-Gas Piping

DIVISION 23 - HVAC

23 05 00 - Common Work Results For HVAC
 23 05 10 – Basic Materials and Methods
 23 05 29 – Hangers and Supports for HVAC Piping and Equipment
 23 05 93 – Testing, Adjusting and Balancing
 23 07 00 – HVAC Insulation
 23 31 13 – Metal Ducts
 23 33 00 – Air Duct Accessories
 23 34 23 – HVAC Fans
 23 37 13 – Diffusers, Registers, and Grilles
 23 74 13 – Package Rooftop Unit

DIVISION 26 - ELECTRICAL

26 05 00 – General Conditions Electrical
 26 05 19 – Low-Voltage Electrical Power Conductors and Cables
 26 05 26 – Grounding and Bonding for Electrical Systems
 26 05 29 – Hangers and Supports for Electrical Systems
 26 05 33 – Raceways and Boxes for Electrical Systems
 26 05 53 – Identification for Electrical Systems
 26 09 23 – Lighting Control Devices
 26 24 16 – Panelboards
 26 27 26 – Wiring Devices

DIVISION 27 - COMMUNICATIONS

27 05 00 - Common Work Results For Communications

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

28 05 00 - Common Work Results For Electronic Safety and Security
 28 31 12 – Fire Alarm System Expansion

DIVISION 31 – EARTHWORK

DIVISION 32 – EXTERIOR IMPROVEMENTS

DIVISION 33 – UTILITIES

END OF SECTION 00 01 10

SECTION 00 11 15
ADVERTISEMENT FOR BIDS

Bids are invited for General Contract for the work of the following two projects.

Roane County Schools Life Skills Classrooms
Harriman High School, 920 N Roane St, Harriman, TN 37748
Rockwood High School, 512 W Rockwood St, Rockwood, TN 37854

Prime Bidders are required to obtain Bid Documents at the office of the Designer by paying a refundable Plan Deposit in the amount of \$150.00 in the form of a certified check or cashier's check, made payable to Roane County Schools. Bidders of Record will automatically receive subsequent Addenda and Bid Packs including the Bid Envelope and other forms required for bidding. Bidders of Record and major subcontractors may obtain additional copies of Bidding Documents at Contractor's expense from Designer or Plan Rooms, but costs will not be refundable.

Examine documents at Designer's office or Plan Rooms listed below:

Designer:

Lewis Group Architects
6512 Deane Hill Drive
Knoxville, Tennessee 37919

Plan Rooms:

Knoxville Builders Exchange Knoxville, TN 865-525-0443
F.W. Dodge McGraw-Hill Plan Room, Knoxville, TN 877-784-9556
Associated General Contractors, Knoxville, TN 865-525-2166

A Mandatory Pre-Bid Conference will be held at 10:00 am, local time, on Thursday, January 05, 2017, at the Rockwood High School, 512 W Rockwood St, Rockwood, TN 37854. Bidders must be present at the mandatory Pre-Bid Conference for their bids to be considered.

Bidders bidding \$25,000.00 or more must be licensed per state law. Five percent (5%) Bid Security is required. Non-Discrimination policy applies.

Include with each bid, Bid Security in the amount equal to five percent of the total of the Bid, plus all Alternates, payable to the Roane County Purchasing Office in the form of (1) a certified check or cashiers check or (2) a satisfactory Bid Bond executed by a corporate surety licensed under the laws of the State of Tennessee to execute such Bonds.

Each Bidder must be appropriately licensed as a Contractor in the State of Tennessee as provided in T.C.A. 62-6-101. Complete all blanks on the bid envelope, otherwise, the Bid will not be opened.

The Owner reserves the right to reject any or all Bid proposals, and may accept bids for both projects from one bidder, or one bid from different bidders. Owner also reserves the right to waive all informalities. A conditional or qualified BID will not be accepted. Award will be made to the lowest responsible, responsive BIDDER.

See additional requirements for Roane County Schools on the following pages.

ROANE COUNTY PURCHASING DEPARTMENT INVITATION TO BID

Roane County is inviting sealed bids for the service(s) listed below, subject to the terms and conditions of the Invitation to Bid, the accompanying specifications, and the Roane County Purchasing Manual.

At the appointed time bids will be publicly opened in the office of the Roane County Purchasing Agent at the above address. Bids arriving in the Purchasing Department past the appointed date and time will be considered late and will not be opened.

Deliver Bids To:

ROANE COUNTY PURCHASING DEPARTMENT
200 EAST RACE STREET, SUITE #3
KINGSTON, TENNESSEE 37763

**Bid Number: 2017-05-177
LIFE SKILLS CLASSROOMS**

Open Date & Time: Thursday, January 19, 2017 at 2:00 p.m. (Eastern Time Zone)

The Bid Envelope must show the Bid Number, Name & Opening Date.

PURCHASING CONTACT INFORMATION

**Lynn Farnham, CPPO, CPPB
Purchasing Agent
Phone: 865-376-4317
Fax: 865-376-4318
Email: lynn.farnham@roanecountytn.gov**

GENERAL TERMS & CONDITIONS

Attached are instructions and conditions for submitting a bid for Roane County Government. The objective of this bid is to select suppliers in such a manner as to provide for open and free competition and comparability.

BID PREPARATION & SUBMISSION

1. Bidders are expected to examine specifications, terms and conditions, general or special conditions, schedules and all instructions for the purpose of this bid. Failure to do so will be at the bidder's risk.
2. All bids shall be in accordance with the instructions to bidders and specifications included in this ITB. Specifications are intended to be open and non-restrictive.
3. All pricing submitted in the bid document must be completed in ink or typewritten. The bottom line total must also be printed in ink or typewritten on the proposal form. No erasures shall be permitted. Errors may be crossed out and corrections printed in ink or typewritten and must be initialed in ink by the person signing the bid.
4. All bids must meet or exceed the enclosed specifications.
5. It shall be the sole responsibility of the bidder to make certain that all bids in proper form are submitted to the Purchasing Department as described below.
6. All original forms must be signed by a person with authority to bind the bid. The bid must be sealed in an envelope that is labeled according to the directions stated below.
7. On the outside of the envelope/package mark the bid as follows:
 - Vendor Name & Address
 - Bid Number
 - Bid Date & Time
8. The bid must then be in a sealed envelope/package mailed or delivered to the following address:

Roane County Purchasing Department
200 East Race Street, Suite #3
Kingston, Tennessee 37763

Please note that Roane County does not receive a guaranteed delivery time for express mail and/or packages. Please mail accordingly.

12. Sealed written bids will be received at the time and place specified on the Invitation to Bid. Postmark on the Bid by this date will not suffice. Bid must be received on or before the date and time stated. Faxed bid documents will not be accepted.

LATE RECEIPT OF THE BID

1. The bid and modifications or withdrawals thereof received after the time set for opening will not be considered, unless they are received before the award is made

and it is determined by Roane County that failure to arrive on time was due solely to a delay in delivery for which the bidder has no responsibility. Roane County does not receive a guaranteed delivery time for express mail and/or packages. Please mail accordingly.

2. Bids must be in the Purchasing Department prior to 2:00 p.m. on the appointed date. Time will be determined by the clock in the Roane County Purchasing Department and once Purchasing Agent/or their designee determines the time is 2:00 p.m., no other bids will be accepted.

RESTRICTIVE OR AMBIGUOUS SPECIFICATIONS

1. It is the responsibility of the bidder to review the entire Invitation to Bid document and to notify the Purchasing Agent if the Invitation to Bid is formulated in a manner that would unnecessarily restrict competition or if it is ambiguous in what is being requested.
2. Pursuant to TCA §12-4-126, questions regarding the specifications or bid procedures must be received by the Purchasing Agent and/or designer no less than ninety-six (96) hours before the bid opening date. No addenda will be issued within less than forty-eight (48) hours of the bid opening day, excluding weekends and legal holidays designated in §15-1-101 unless the bid opening is extended for a reasonable time as determined by the purchasing agent, which shall not be less than forty-eight (48) hours excluding weekends and legal holidays designated in §15-1-101, to allow for any necessary changes to the Invitation to Bid documents and to allow responders to resubmit their responses accordingly.
3. Any questions concerning this Invitation to Bid are to be faxed to the Purchasing Department. Questions will be answered via addenda. Information obtained from any office other than the Purchasing Office is not to be considered binding.

BID OPENING & AWARD

1. Only the bottom line figure will be read at the bid opening. Bids will also be examined for compliance with specification and conditions outlined in the bid document.
2. Consideration will be given to all bids properly submitted. Bids will receive appropriate confidentiality before awarding. Upon award, bid documents and tabulations will be available for review. Errors discovered after public opening may not be corrected, and the bidder may be bound to honor bid as submitted. After investigation of the nature of the mistake, the Purchasing Agent may allow the bid to be withdrawn.
3. The contract will be awarded in writing to the most responsive bidder whose bid conforms best to the Invitation to Bid will be most advantageous to Roane County. It is the intent of Roane County to involve and utilize the best product/services at the best prices and provide small and minority firms, women's business enterprises and labor surplus area firms with increased opportunity to do business with the county. However, currently there are no set asides for small or minority firms.

4. Roane County reserves the right to accept or reject any or all bids and to waive informalities and minor irregularities in the bids received.
5. Roane County reserves the right to award the bid in its entirety or to divide the award in any way that will be more advantageous to the county.
6. Bid results will be posted on the County's website along with the bid tabulation.

PROTEST PROCEDURE

1. If a prospective vendor does not agree with the bid award, they have the right to protest. Disputes arising from the award of this bid must be submitted in writing to the Roane County Purchasing Department no later than seven (7) days from date of bid award. The steps for dispute resolution may include:
 - A meeting with the Purchasing Agent, the requisitioning department's manager and representatives from the disputing party to discuss and resolve the complaint.
 - Information from the aforementioned meeting will be forwarded to the County Attorney for review.
 - A written decision letter stating the reasons for the decision will be prepared by the Purchasing Agent and submitted in writing to the protestor and all parties involved.
 - Purchases will not be allowed under this procurement until a final decision is rendered.
 - In the event that purchases must be made before a final decision is rendered, the emergency purchase procedures will be used.

APPROPRIATION

1. In the event no funds are appropriated by Roane County for the goods or services in any fiscal year or insufficient funds exist to purchase the goods or services, then the contract shall expire upon the expenditure of previously appropriated funds or the end of the current fiscal year, whichever occurs first, with no further obligations owed to or by either party.

INSURANCE

1. The contractor will maintain, at their expense adequate insurance coverage to protect them from claims arising under the Worker's Compensation Act, from claims for

damages resulting from bodily injuries and damage to their property, for Bodily Injury and Property Damage Liability in the amount of no less than \$1,000,000, for Products and Completed Operations Liability of no less than \$1,000,000 and from claims for damage to any Roane County property. Additional insurance requirements may be listed any Special Terms & Conditions or in the Bid Specifications. This insurance company shall have a Best's rating of A or better. Any deviations from the above requirements must be disclosed in the bid submission.

2. The successful bidder shall furnish a Certificate of Insurance issued by their insurance company showing that Roane County as an additional insured. Carrier will assume full common liability of all shipments.

COMPLIANCE WITH ALL LAWS

1. Contractor is assumed to be familiar with and agrees to observe and comply with all federal, state, and local laws, statutes, ordinances, and regulations in any manner affecting the provision of goods and/or services, and all instructions and prohibitive orders issued regarding this work and shall obtain all necessary permits.

GOVERNING LAW

1. This contract shall be governed by the laws of the State of Tennessee, and all obligations of the parties are performable in Roane County, Tennessee. The Courts in Roane County shall have exclusive and concurrent jurisdiction of any disputes which arise hereunder.

BUSINESS LICENSES

1. Bidders located in Tennessee are required to have a current business license issued by the State of Tennessee at the time the bids are submitted. Vendors located outside Tennessee are required to obtain a business license issued by the State of Tennessee.
2. A Roane County Business License is required if a contractor is doing more than \$50,000 in business in the county.
3. A Business Tax & License Affidavit is required to be submitted with the bid.

INDEMNIFICATION/HOLD HARMLESS

1. Contractor shall indemnify, defend, save and hold harmless all departments of Roane County Government and/or the Roane County Board of Education, its officers, agents and employees from all suits, claims, actions or damages of any nature brought because of, arising out of, or due to breach of the agreement by

Contractor, its subcontractors, supplier, agents or employees or due to any negligent act or occurrence or any omission or commission of the contractor, its subcontractors, suppliers, agents or employees until the contract terminates.

VENDOR PERFORMANCE

1. If the contractor fails in full or part to perform or comply with any provision of this Contract or the terms or conditions of any documents referenced and made a part hereof, Roane County may terminate this contract, in whole or in part, and may consider such failure or noncompliance a Breach of Contract. Contractors with poor performance will be notified at the time of such performance and be given opportunity to correct the problems. Documentation will be kept on file. Any contractor with continued poor performance will be removed from the potential vendor list for one year.
2. Roane County expressly retains all its rights and remedies provided by law in case of such breach, and no action by Roane County shall constitute a waiver of any such rights or remedies. In the event of termination for default, Roane County reserves the right to purchase its requirements elsewhere, with or without competitive bid.
3. Failure to deliver within the time specified or within a reasonable amount of time, or failure to make replacements of a rejected item immediately will constitute authority to purchase on the open market so as to replace the item(s) rejected and/or not received. On all such purchases, the Vendor agrees to promptly reimburse the county for excess costs incurred by such a purchase.

BREACH OF CONTRACT

1. A party shall be deemed to have breached the contract if any of the following occurs:
 - Failure to provide the services that conform to contract requirements.
 - Failure to maintain/submit any report required hereunder.
 - Failure to perform in full or in part any of the other conditions of the contract.

CONTRACT TERMINATION FOR CAUSE

1. If the contractor fails to properly perform its obligations under this contract in a timely or proper manner, or if the contractor violates any terms of this contract, the county shall have the right to terminate the contract and withhold payments in excess of fair compensation for completed services.
2. In the event the contract is terminated for due cause by the county, the county shall have the option of awarding the contract to the next lowest bidder or bidding again.

CONTRACT TERMINATION FOR CONVENIENCE

1. The county may, by written notice to the contractor, terminate this contract without cause for any reason. Said termination shall not be deemed a Breach of Contract by the county. The county must give notice of termination to the vendor at least thirty (30) days prior to the effective date of termination. The contractor shall be entitled to receive compensation for satisfactory, authorized service completed as of the termination date, but in no event shall the county be liable to the contractor for compensation for any service which has not been rendered. Upon such termination, the vendor shall have no right to any actual general, special, incidental, consequential, or any other damages whatsoever of any description or amount.

BOOKS AND RECORDS

1. The contractor shall maintain all books, documents, accounting records and other evidence pertaining to the goods and services provided under this contract and make such materials available at its offices at all reasonable times during the contract period and for three (3) years from the date of the final payment under this agreement for inspection by county or by any other governmental entity or agency participating in the funding of this agreement, or any authorized agents thereof; copies of said records to be furnished if requested.

INVOICES AND PAYMENTS

1. Payment will be made within 30 days after receipt of invoice and/or delivery of items included in this Invitation to Bid, whichever is later.
2. Roane County Government is not subject to taxation. A tax exemption certificate will be provided upon request.

NONDISCRIMINATION AND NON-CONFLICT STATEMENT

1. Contractor agrees that no person on the grounds of handicap, age, race, color, religion, sex or national origin, shall be excluded from participation in, or be denied

benefits of, or be otherwise subjected to discrimination in the performance of this agreement, or in the employment practices of vendor. Contractor shall upon request show proof of such nondiscrimination, and shall post in conspicuous places available to all employees and applicants notices of non-discrimination. Contractor covenants that it complies with the Fair Wage and Hour Laws, the National Labor Relations Act, and other federal and state employment laws as applicable. Contractor covenants that it does not engage in any illegal employment practices.

2. Contractor covenants that it has no public or private interest, and shall not acquire directly or indirectly any interest; that would conflict in any manner with the provision of its goods or performance of its services. The contractor warrants that no part of the total contract amount provided herein shall be paid directly or indirectly to any officer or employee of Roane County as wages, compensation, or gifts in exchange for acting as officer, agent, employee, subcontractor or consultant to contractor in connection with any goods provided or work contemplated or performed relative to the agreement.
3. No employee or member of the Roane County's governing bodies shall participate in the selection or award of a contract if a conflict of interest, real or apparent, would be involved.
4. Officers, employees or officials of the Roane County Government shall neither solicit nor accept gratuities, favors or anything of more than nominal monetary value from vendors or parties to subcontracts.

**2017-05-177 – LIFE SKILLS CLASSROOMS
VENDOR INFORMATION SHEET**

(Please fill out completely)

By completing and signing this form you certify that you are an authorized representative of the company for which you are submitting a bid/proposal and that you have the authority to legally bind your company. Further, by completing and signing this form you certify that you agree to all the terms and conditions of this bid/proposal.

1. Vendor Name

2. Address _____

City _____ State _____ Zip Code

3. Contact Person (Please Print) _____

4. Telephone Number _____ Fax
Number _____

5. Vendor's e-mail address

6. Authorizing
Signature _____

7. Title of Person Signing
Bid _____

8. If addenda were issued, please acknowledge the receipt of: (please write "yes" if you received one)

Addendum 1 _____ Addendum 2 _____ Addendum 3 _____ Addendum 4 _____

9. If applicable, please indicate below if discounts will be allowed for prompt payment or if there is not discount offered:

_____ % Net 10 Days; _____ % Net 20 Days; _____ % Net 30 Days; _____ No Discount

COOPERATIVE PURCHASING - Vendors are to indicate if it is permissible for other governmental agencies in the State of Tennessee to purchase these items or services at the same price. Freight charges may be adjusted to reflect differences in delivery costs to other locations. Please indicate the approval of Cooperative Purchasing.

_____ Yes _____ No

SCHOOL CONTRACTS ONLY

CRIMINAL HISTORY RECORDS CHECK – Do you agree to comply with Public Chapter 587 of 2007 which requires all contractors to facilitate a criminal history check, including fingerprinting, conducted by the Tennessee Bureau of Investigation and the Federal Bureau of Investigation for each employee or subcontractor personnel before permitting the employee or subcontractor personnel to have contact with students or enter school grounds?

_____ Yes _____ No

**2017-05-177 – LIFE SKILLS CLASSROOMS
NON –COLLUSION, INDEPENDENT PRICE DETERMINATION,
NON-DISCRIMINATION, NON-DEBARMENT & LOBBYING AFFIDAVIT**

I do hereby certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud.

I understand that collusive pricing is a violation of State and Federal law and can result in fines, prison sentences, and civil damage awards and that no collusion with another firm was used in preparation of this bid.

I also certify that this firm does not discriminate against any employee or applicant for employment on the grounds of race, color, national origin or sex; and does not and will not maintain or provide for his employees any segregated facilities at any of its establishments, and further, that the firm does not and will not permit their employees to perform their services at any location under this contract where segregated facilities are maintained.

By submission of this bid, the bidder certifies that neither it or its principals is presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal or State department or agency.

I further certify that during the Invitation to Bid solicitation and/or during the performance of this contract that neither it nor its principals will participate in lobbying activities in conjunction with this project.

I agree to abide by all terms and conditions of this Invitation to Bid and certify that I am authorized to sign this affidavit for the vendor.

Please indicate which of the following apply to your company. This information is requested for information purposes only. Roane County currently has no policy that allows for set asides or preferences for woman owned or minority owned businesses.

- | | |
|---|---|
| <input type="checkbox"/> African American Owned | <input type="checkbox"/> Asian Owned |
| <input type="checkbox"/> Caucasian Owned | <input type="checkbox"/> Hispanic Owned |
| <input type="checkbox"/> Native American Owned | <input type="checkbox"/> Woman Owned |
| <input type="checkbox"/> Other Owned | |

Signature

Title

**2017-05-177 – LIFE SKILLS CLASSROOMS
DRUG-FREE WORKPLACE AFFIDAVIT**

STATE OF _____

COUNTY OF _____

The undersigned, principal officer of _____, an employer of five (5) or more employees contracting with Roane County Government to provide construction services, hereby states under oath as follows:

1. The undersigned is a principal officer of _____ (hereinafter referred to as the "Company"), and is duly authorized to execute this Affidavit on behalf of the Company.
2. The Company submits this Affidavit pursuant to T.C.A. § 50-9-113, which requires each employer with no less than five (5) employees receiving pay who contracts with the state or any local government to provide construction services to submit an affidavit stating that such employer has a drug-free workplace

program that complies with Title 50, Chapter 9, of the *Tennessee Code Annotated*.

3. The Company is in compliance with T.C.A. § 50-9-113.

Further affiant saith not.

Principal Officer

STATE OF _____

COUNTY OF _____

Before me personally appeared _____, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who acknowledged that such person executed the foregoing affidavit for the purposes therein contained.

Witness my hand and seal at office this _____ day of _____, 20____.

Notary Public

My commission expires _____.

**2017-05-177 – LIFE SKILLS CLASSROOMS
STATEMENT OF COMPLIANCE CERTIFICATE
ILLEGAL IMMIGRANTS**

EACH CONTRACTOR BIDDING SHALL FILL IN AND SIGN THE FOLLOWING

This is to certify that _____ have fully complied with all the requirements of Chapter No. 878 (House Bill No. 111 and Senate Bill No. 411) which serves to amend Tennessee Code Annotated Title 12, Chapter 4, Part I, attached herein for reference.

- All Bidders for construction services on this project shall be required to submit an affidavit (by executing this compliance document) as part of their bid that attests that such Bidder shall comply with requirements of Chapter no. 878.

Signed:

State of _____)
) ss
 County of _____)

Personally appeared before me, _____ the undersigned Notary Public, _____, the within named bargain or, with whom I am personally acquainted, and known to me to be the President / Owner / Partner (as applicable) of the _____, Corporation, Partnership, Sole Proprietorship (as applicable) and acknowledged to me that he executed the foregoing document for the purposes recited therein.

Witness my hand, at office, this _____ day of _____, 20__.

 Notary Public

My commission expires _____

 Statement of Compliance – Illegal Immigrants

**2017-05-177 – LIFE SKILLS CLASSROOMS
 BUSINESS TAX & LICENSE AFFIDAVIT**

The undersigned, ("Affiant"), states that he/she has legal authority to swear this on behalf of _____ ("Contractor"); that Contractor is not in any manner in violation of *Tennessee Code Annotated, §5-14-108(l)* which provides that "*no purchase shall be made or purchase order or contract of purchase issued for tangible personal property or services by county officials or employees, acting in their official capacity, from any firm or individual whose business tax or license is delinquent*".

Affiant affirms and warrants that Contractor's licenses are currently valid and all business taxes have been paid and are current as of the date of this affidavit. Contractor is licensed and pays business taxes in _____ County, Tennessee.

AFFIANT

By: -

Title:

Date:

Witness:

Date:

END OF SECTION 00 11 15

SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES**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. Standard hollow metal doors and frames.
- B. Related Sections:
 - 1. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
 - 2. Division 08 Section "Door Hardware" for door hardware for hollow metal doors.
 - 3. Division 26 Sections for electrical connections including conduit and wiring for door controls and operators.

1.3 DEFINITIONS

- A. Minimum Thickness: Minimum thickness of base metal without coatings.
- B. Standard Hollow Metal Work: Hollow metal work fabricated according to ANSI/SDI A250.8.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, fire-resistance rating, temperature-rise ratings, and finishes.
- B. Shop Drawings: Include the following:
 - 1. Elevations of each door design.
 - 2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
 - 3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
 - 4. Locations of reinforcement and preparations for hardware.
 - 5. Details of each different wall opening condition.
 - 6. Details of anchorages, joints, field splices, and connections.
 - 7. Details of accessories.
 - 8. Details of moldings, removable stops, and glazing.
 - 9. Details of conduit and preparations for power, signal, and control systems.

- C. Schedule: Provide a schedule of hollow metal work prepared by or under the supervision of supplier, using same reference numbers for details and openings as those in the Contract Documents. Coordinate with door hardware schedule.
- D. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each type of hollow metal door and frame assembly.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain hollow metal work from single source from single manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project-site storage. Do not use nonvented plastic.
 - 1. Provide additional protection to prevent damage to finish of factory-finished units.
- B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.
- C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch- high wood blocking. Do not store in a manner that traps excess humidity.
 - 1. Provide minimum 1/4-inch space between each stacked door to permit air circulation.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.8 COORDINATION

- A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Ceco Door Products; an Assa Abloy Group company.
 - 2. Amweld Building Products, LLC.

3. Curries Company; an Assa Abloy Group company.
4. Mesker Door Inc.
5. Steelcraft; an Ingersoll-Rand company.

2.2 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A1008, Commercial Steel (CS), Type B; suitable for exposed applications.
- B. Hot-Rolled Steel Sheet: ASTM A1011, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
- C. Metallic-Coated Steel Sheet: ASTM A653, Commercial Steel (CS), Type B; with minimum A40 metallic coating.
- D. Frame Anchors: ASTM A591, Commercial Steel (CS), 40Z coating designation; mill phosphatized.
 1. For anchors built into exterior walls, steel sheet complying with ASTM A1008 or ASTM A1011, hot-dip galvanized according to ASTM A153, Class B.
- E. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A153.
- F. Powder-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow metal frames of type indicated.
- G. Grout: ASTM C476, except with a maximum slump of 4 inches, as measured according to ASTM C 143.

2.3 STANDARD HOLLOW METAL DOORS

- A. General: Provide doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8.
 1. Design: Flush panel.
 2. Core Construction: Manufacturer's standard kraft-paper honeycomb, polystyrene, polyurethane, polyisocyanurate, mineral-board, or vertical steel-stiffener core.
 3. Vertical Edges for Single-Acting Doors: Beveled edge, 1/8 inch in 2 inches.
 4. Top and Bottom Edges: Closed with flush or inverted 0.042-inch- thick, end closures or channels of same material as face sheets. Provide flush top edge at exterior doors.
 5. Tolerances: Comply with SDI 117, "Manufacturing Tolerances for Standard Steel Doors and Frames."
- B. Exterior Doors: Face sheets fabricated from 0.067-inch- thick, metallic-coated steel sheet. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Level 4 and Physical Performance Level A (Maximum Duty), Model 2 (Seamless).
- C. Interior Doors: Face sheets fabricated from 0.067-inch- thick, cold-rolled steel sheet. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:
 1. Level 34 and Physical Performance Level A (Extra Heavy Duty), Model 2 (Seamless).
 - D. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.
 - E. Fabricate concealed stiffeners and hardware reinforcement from either cold- or hot-rolled steel sheet.
- ## 2.4 STANDARD HOLLOW METAL FRAMES
- A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.
 - B. Exterior Frames: Fabricated from metallic-coated steel sheet.
 1. Fabricate frames with mitered or coped corners.
 2. Fabricate frames as full profile welded unless otherwise indicated.
 3. Frames: 0.067-inch- thick steel sheet.
 4. Hot-dip galvanize exterior frames after fabrication.
 - C. Interior Frames: Fabricated from cold-rolled steel sheet.
 1. Fabricate frames with mitered or coped corners.
 2. Fabricate frames as face welded unless otherwise indicated.
 3. Frames: 0.053-inch- thick steel sheet.
 4. Frames for Borrowed Lights: 0.042-inch- thick steel sheet.
 - D. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates from same material as frames.
- ## 2.5 FRAME ANCHORS
- A. Jamb Anchors:
 1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
 2. Stud-Wall Type: Designed to engage stud, welded to back of frames; not less than 0.042 inch thick.
 - B. Floor Anchors: Formed from same material as frames, not less than 0.042 inch thick, and as follows:
 1. Monolithic Concrete Slabs: Clip-type anchors, with two holes to receive fasteners. Weld to frame after adjustment.

2. Separate Topping Concrete Slabs: Adjustable-type anchors with extension clips, allowing not less than 2-inch height adjustment. Terminate bottom of frames at finish floor surface.

2.6 STOPS AND MOLDINGS

- A. Moldings for Glazed Lites in Doors: Minimum 0.032 inch thick, fabricated from same material as door face sheet in which they are installed.
- B. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch high unless otherwise indicated.
- C. Loose Stops for Glazed Lites in Frames: Minimum 0.032 inch thick, fabricated from same material as frames in which they are installed.

2.7 ACCESSORIES

- A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.
- B. Grout Guards: Formed from same material as frames, not less than 0.016 inch thick.

2.8 FABRICATION

- A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.
- B. Tolerances: Fabricate hollow metal work to tolerances indicated in SDI 117.
- C. Hollow Metal Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
 1. Welded Frames: Provide full profile welded or face welded as specified. Continuously; grind, fill, dress, and make smooth, flush, and invisible.
 2. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
 3. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
 4. Grout Guards: Weld guards to frame at back of hardware mortises in frames to be grouted.
 5. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
 6. Jamb Anchors: Provide number and spacing of anchors as follows:
 - a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:

- 1) Two anchors per jamb up to 60 inches high.
 - 2) Three anchors per jamb from 60 to 90 inches high.
7. Door Silencers: Except on weather-stripped doors, drill stops to receive door silencers as follows. Keep holes clear during construction.
 - a. Single-Door Frames: Drill stop in strike jamb to receive three door silencers.
 - b. Double-Door Frames: Drill stop in head jamb to receive two door silencers.
- D. Fabricate concealed stiffeners, edge channels, and hardware reinforcement from either cold- or hot-rolled steel sheet.
- E. Hardware Preparation: Factory prepare hollow metal work to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."
1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
 2. Reinforce doors and frames to receive nontemplated, mortised and surface-mounted door hardware.
 3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
 4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

2.9 STEEL FINISHES

- A. Prime Finish: Apply manufacturer's standard primer immediately after cleaning and pretreating.
1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine roughing-in for embedded and built-in anchors to verify actual locations before frame installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove welded-in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.
- B. Drill and tap doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.

3.3 INSTALLATION

- A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
- B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11.
 - 1. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.
 - a. Where frames are fabricated in sections because of shipping or handling limitations, field splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces.
 - b. Install door silencers in frames before grouting.
 - c. Remove temporary braces necessary for installation only after frames have been properly set and secured.
 - d. Check plumbness, squareness, and twist of frames as walls are constructed. Shim as necessary to comply with installation tolerances.
 - 2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with postinstalled expansion anchors.
 - a. Floor anchors may be set with powder-actuated fasteners instead of postinstalled expansion anchors if so indicated and approved on Shop Drawings.
 - 3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with grout.
 - 4. Installation Tolerances: Adjust hollow metal door frames for squareness, alignment, twist, and plumb to the following tolerances:
 - a. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 - b. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
 - c. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 - d. Plumbness: Plus or minus 1/16 inch, measured at jambs at floor.
- C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.
 - 1. Non-Fire-Rated Standard Steel Doors:
 - a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
 - b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.

- c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
- d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.

3.4 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.
- B. Remove grout and other bonding material from hollow metal work immediately after installation.
- C. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.
- D. Metallic-Coated Surfaces: Clean abraded areas and repair with galvanizing repair paint according to manufacturer's written instructions.

END OF SECTION 08 11 13

1.0 DESIGN AND CODE INFORMATION

- 1.1 THE STRUCTURAL MODIFICATION IS DESIGNED IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE. ALL DESIGN, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REFERENCED CODE(S). UNLESS SPECIFIED OTHERWISE, ALL EDITIONS OF CODES AND STANDARDS SHALL BE AS SET FORTH IN THE ABOVE GOVERNING CODE.
- 1.2 THIS STRUCTURAL MODIFICATION A NEW MASONRY OPENING IN AN EXISTING BEARING WALL. NO SIGNIFICANT CHANGES ARE BEING MADE TO THE LATERAL STABILITY OF THE EXISTING BUILDING. NO STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE HAS BEEN PERFORMED.
- 1.3 THE FOLLOWING ROOF DEAD LOADS HAVE BEEN ASSUMED FOR DESIGN. THE CONTRACTOR SHALL VERIFY THESE LOADS PRIOR TO DEMOLITION AND ADVISE ARCHITECT OF ANY DISCREPANCIES:

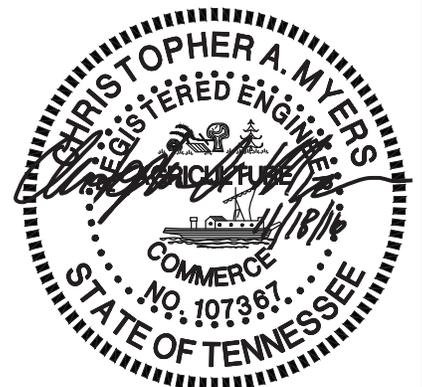
ROOF MEMBRANE	1	PSF	
RIGID INSULATION (3-INCHES)	4.5	PSF	
BUILT-UP ROOF	6	PSF	
3-INCH WOOD DECKING	8	PSF	
STEEL BAR JOISTS	4	PSF	
CEILING	2.5	PSF	
M,P,& E ALLOWANCE	5	PSF	
ROOF-TOP EQUIPMENT			IT IS ASSUMED NO ROOF JOIST WITHIN 2- FEET OF NEW BEARING WALL OPENING SUPPORTS ROOF-TOP EQUIPMENT ANYWHERE ALONG ITS SPAN.
- 1.4 STRUCTURAL MEMBERS HAVE BEEN DESIGNED BASED ON A ROOF LIVE LOAD OF 20 PSF.
- 1.5 STRUCTURAL MEMBERS HAVE BEEN DESIGNED BASED ON A SNOW LOAD RESULTING FROM A GROUND SNOW LOAD OF 10 PSF.
- 1.6 INTERIOR PARTITION MINIMUM DESIGN LATERAL LOAD = 5 PSF
- 1.7 THE STRUCTURAL ENGINEER WILL OBSERVE THE CONSTRUCTION ONLY AS REQUESTED BY THE ARCHITECT AS SPECIFIED IN THE ARCHITECT-ENGINEER AGREEMENT FOR THE PROJECT.

2.0 ADDITIONAL CONTRACTOR RESPONSIBILITIES AND DEFINITIONS

- 2.1 CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, HORIZONTAL AND VERTICAL DIMENSIONS AND COORDINATION OF ARCHITECTURAL AND STRUCTURAL DRAWINGS. IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE THE ARCHITECTURAL DRAWINGS.
- 2.2 THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 2.3 INVESTIGATE ACTUAL LOCATIONS OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATING AND ADVISE THE ARCHITECT OF ALL INTERFERENCES.

3.0 REINFORCEMENT

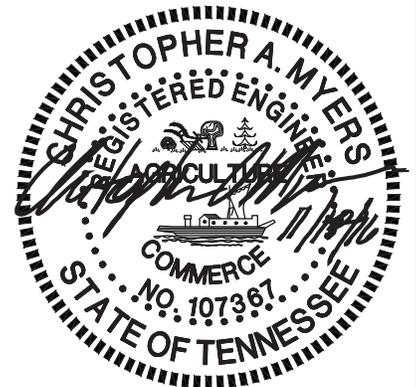
- 3.1 REINFORCING BARS SHALL CONFORM TO ASTM A615 OR A706, GRADE 60.
- 3.2 MASONRY REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 3.3 BARS DESIGNATED CONTINUOUS OR BARS REQUIRED TO BE SPLICED FOR PLACEMENT SHALL BE LAPPED AS FOLLOWS:
 MASONRY REINFORCEMENT: 48 BAR DIAMETERS
- 3.4 PROVIDE CORNER BARS AT ALL CONTINUOUS FOOTING INTERSECTIONS, WALL AND BOND BEAM CORNERS. AT A MINIMUM, BARS SHALL BE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING IN EACH DIRECTION.
- 3.5 PROVIDE MATCHING FOUNDATION DOWELS FOR ALL VERTICAL WALL REINFORCEMENT UNLESS NOTED OTHERWISE. PROVIDE STANDARD 90° HOOKS ON ENDS OF ALL DOWELS EMBEDDED IN FOUNDATIONS UNLESS NOTED OTHERWISE.



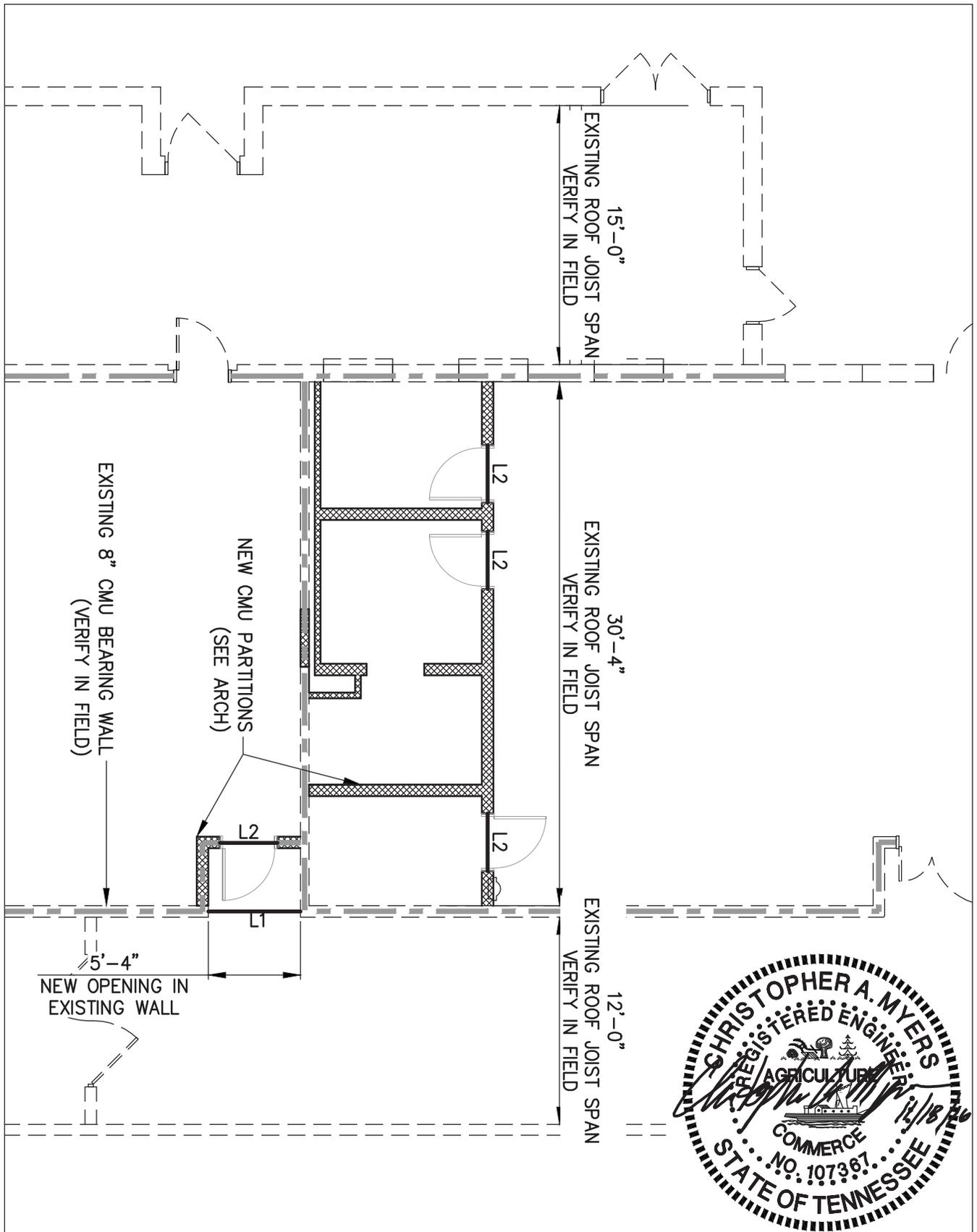
Carpenter Wright Engineers Structural Consultants	PROJECT: ROANE COUNTY SCHOOLS - LIFE SKILLS CLASSROOMS ROANE COUNTY, TN	DRAWN BY: CAM	DATE: 11-18-16	
	DESCRIPTION: STRUCTURAL GENERAL NOTES	CHECKED BY: CAM	CWE PROJECT #: 2016243.00	
				SHEET #: SK-1

4.0 MASONRY

- 4.1 ALL MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530, "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES".
- 4.2 MASONRY FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REFERENCED CODE AS INSPECTED MASONRY WITH A LEVEL B QUALITY ASSURANCE PROGRAM. THE OWNER SHALL EMPLOY AN AGENT IN COMPLIANCE WITH CODE CRITERIA TO INSURE THAT THE CODE REQUIREMENTS ARE CARRIED OUT. INSPECTION AND TESTING SHALL CONFORM TO ACI 530.1 SPECIFICATION FOR MASONRY STRUCTURES SECTION 1.5 AND 1.6.
- 4.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY AT 28 DAYS SHALL BE $f'_m = 1,500$ PSI. ALL LOAD-BEARING BLOCK MASONRY SHALL HAVE A MINIMUM NET AREA UNIT STRENGTH OF 1900 PSI AT 28 DAYS.
- 4.4 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 OR ASTM C55 AND BE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C140.
- 4.5 BED JOINT THICKNESS SHALL NOT EXCEED 5/8 INCH.
- 4.6 GROUT USED FOR FILLING CELLS AND BOND BEAMS SHALL COMPLY WITH ASTM C476 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS DETERMINED IN ACCORDANCE WITH ASTM C140. THE SLUMP SHALL BE BETWEEN 8 INCHES AND 11 INCHES. TEST GROUT STRENGTH IN ACCORDANCE WITH ASTM C1019.
- 4.7 WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 INCHES OR LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL) GROUT.
- 4.8 MORTAR SHALL CONFORM TO THE FOLLOWING TYPES AS DEFINED IN THE BUILDING CODE:
 TYPE M OR S MORTAR
 MORTAR SHALL BE PROPORTIONED TO MEET THE REQUIREMENTS OF ASTM C270.
 MORTAR SHALL BE TESTED IN THE FIELD IN ACCORDANCE WITH ASTM C780, APPENDIX A-4 MORTAR AGGREGATE RATIO TEST.
- 4.9 JOINT REINFORCEMENT SHALL MEET ASTM A82. PROVIDE THE FOLLOWING MINIMUM CONTINUOUS HORIZONTAL MASONRY REINFORCING AT 16 INCHES O.C.:
 (MANUFACTURED BY DUR-O-WAL OR AN APPROVED SUBSTITUTE.)
 - SINGLE WYTHE:
 UNREINFORCED: STANDARD WEIGHT TRUSS TYPE
 REINFORCED: 8" WIDTH STANDARD WEIGHT LADUR TYPE
- 4.10 VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 DIAMETERS OF THE REINFORCEMENT OR 10 FEET.
- 4.11 ALL CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH GROUT. ALL GROUT SHALL BE CONSOLIDATED AT TIME OF POURING BY VIBRATING AND THEN RECONSOLIDATED AGAIN BY MECHANICAL VIBRATION AFTER SETTLEMENT HAS OCCURRED, BUT BEFORE PLASTICITY IS LOST.



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			SHEET #: SK-2

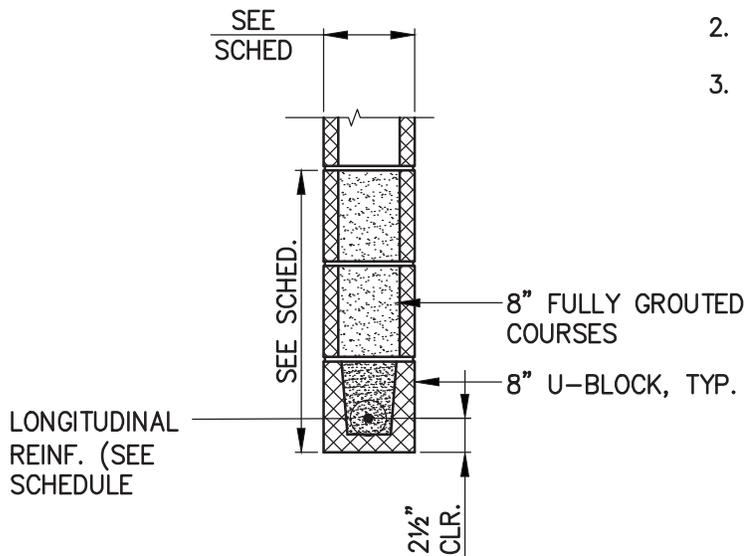


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	DESCRIPTION: PARTIAL PLAN	CHECKED BY: CAM	CWE PROJECT #: 2016243.00
			SHEET #: SK-3

MASONRY BOND BEAM LINTEL SCHEDULE			
LINTEL MARK	LINTEL DEPTH	WALL WIDTH	REINF. BARS
L1	24"	8"	#5 HORIZ.
L2	8"	8"	#5 HORIZ.

NOTES:

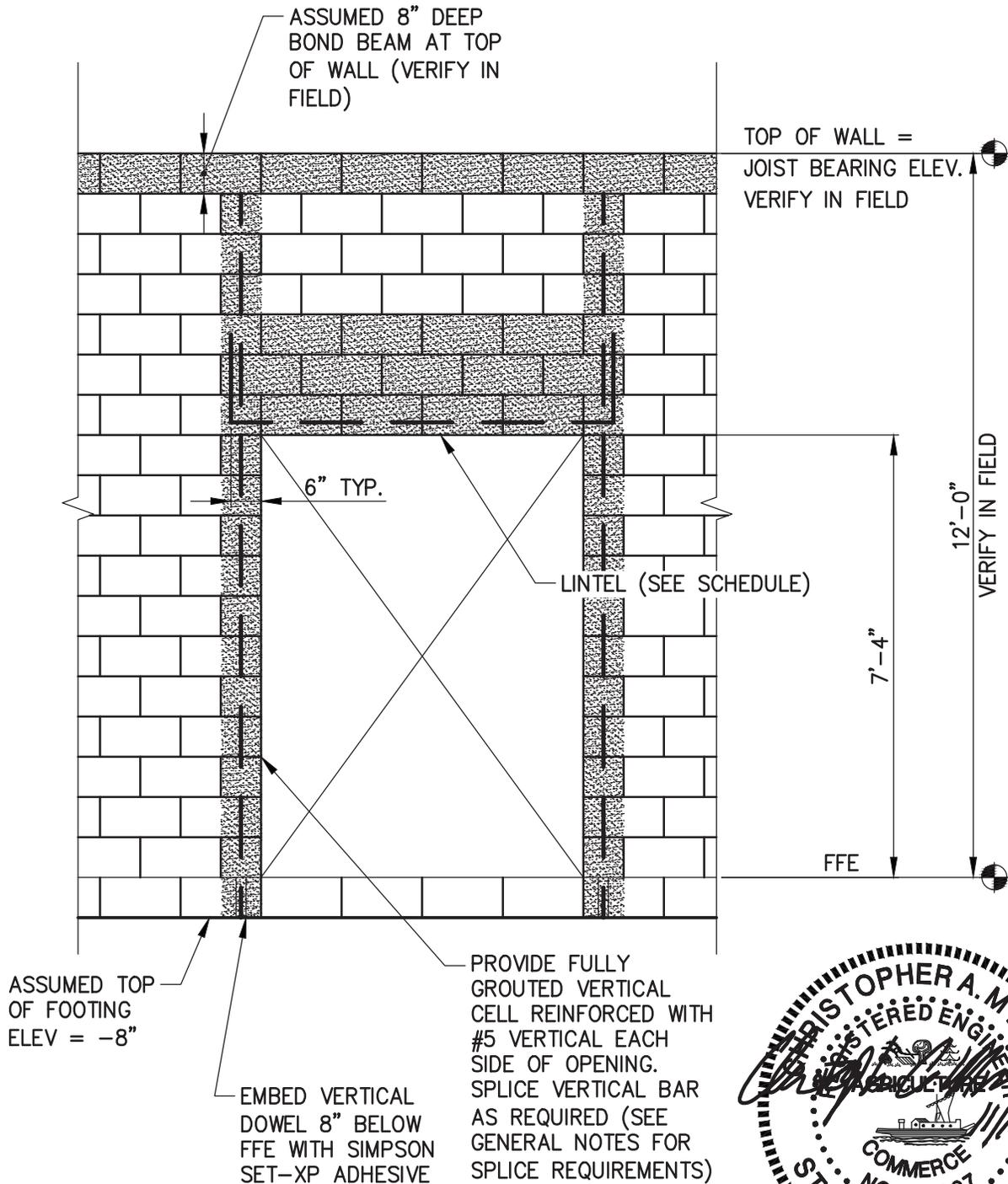
1. PROVIDE 8-INCH FULLY GROUTED CELL (FULL HEIGHT OF WALL) EACH SIDE OF OPENING, TYP.
2. PROVIDE HOOK AT EACH END OF HORIZ. REINF.
3. MASONRY BOND BEAM LINTELS SHALL CONSIST OF AN 8" DEEP BOND BEAM U-BLOCK GROUTED TOGETHER W/COURSES ABOVE TO ACHIEVE SPECIFIED DEPTH.



TYPICAL LINTEL SECTION

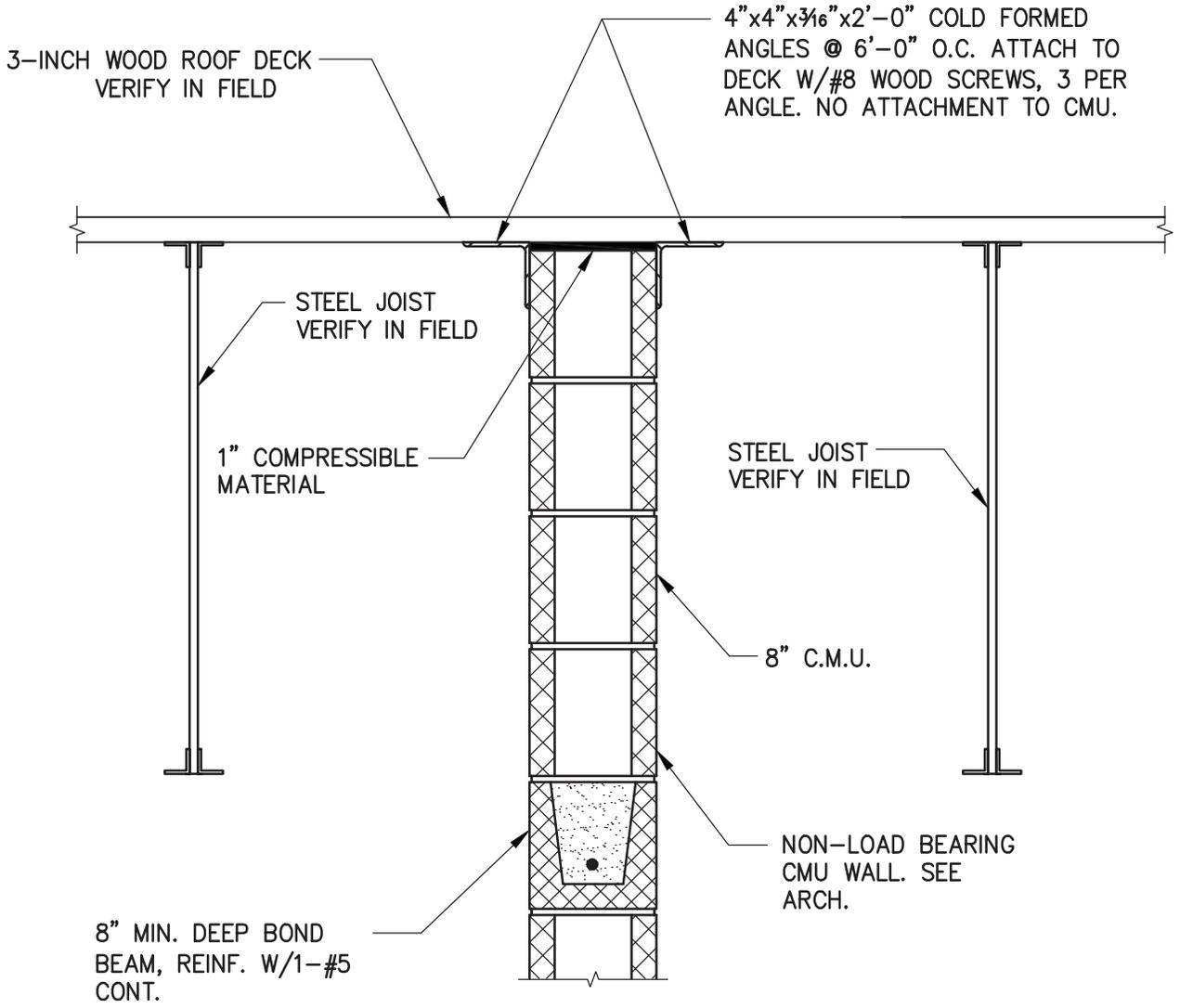


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	DESCRIPTION: LINTEL SCHEDULE	CHECKED BY: CAM	CWE PROJECT #: 2016243.00
			SHEET #: SK-4



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	DESCRIPTION: ELEVATION AT NEW OPENING	CHECKED BY: CAM	CWE PROJECT #: 2016243.00
			SHEET #: SK-5

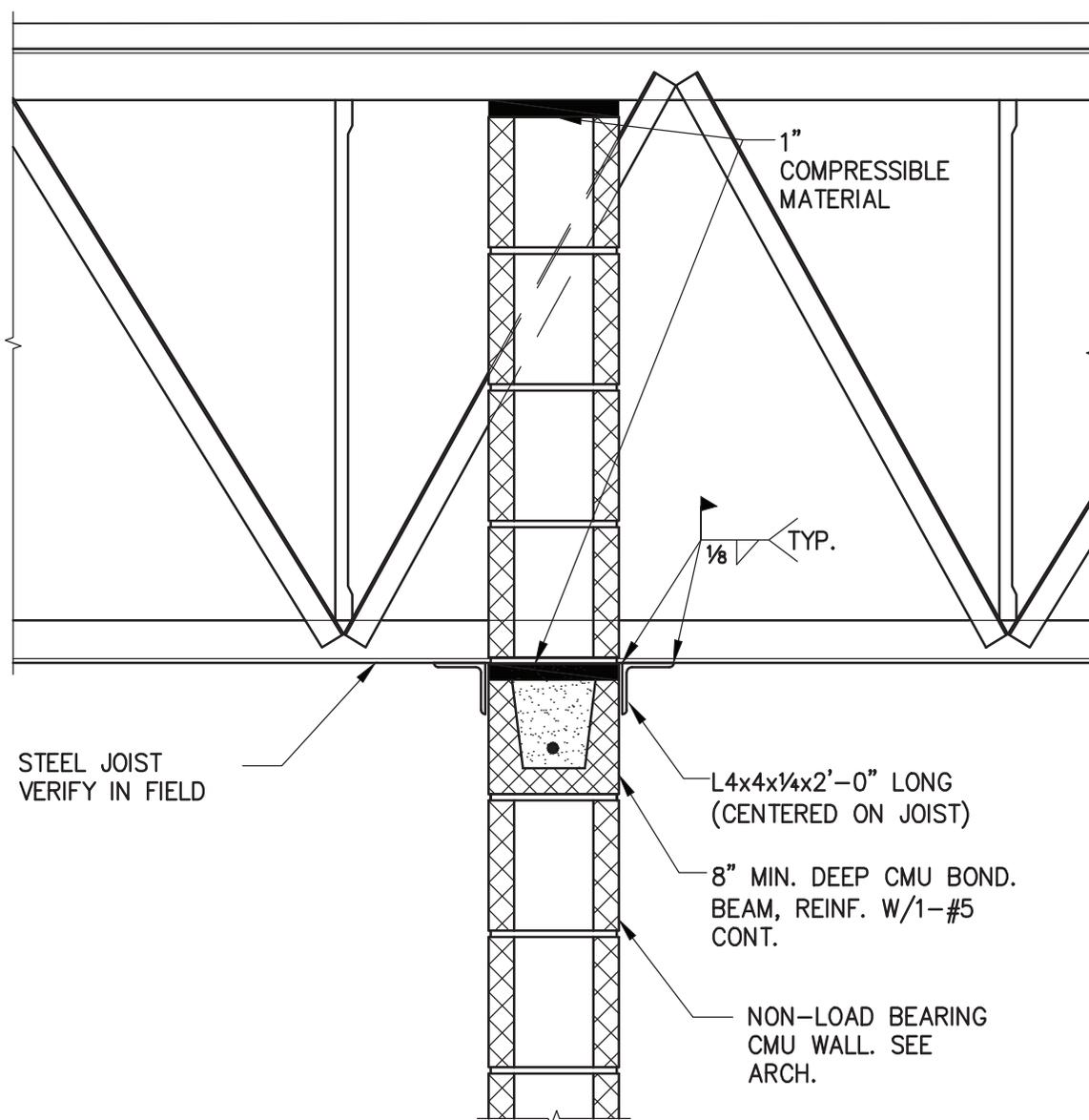
111 SHERLAKE LANE, SUITE 200 ~ KNOXVILLE, TENNESSEE 37922 ~ PHONE NO. (865) 539-8227 ~ FAX NO. (865) 539-8237



PARALLEL TO JOIST CONDITION



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	DESCRIPTION: TOP OF PARTITION DETAIL	CHECKED BY: CAM	CWE PROJECT #: 2016243.00
			SHEET #: SK-6



PERPENDICULAR TO JOIST CONDITION



**Carpenter
Wright
Engineers**
Structural Consultants

PROJECT:
ROANE COUNTY SCHOOLS - LIFE SKILLS CLASSROOMS
ROANE COUNTY, TN

DESCRIPTION:
TOP OF PARTITION DETAIL

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CAM

CHECKED BY:
CAM

DATE:
11-18-16

CWE PROJECT #:
2016243.00

SHEET #:
SK-7