

April 30, 2024

TO: Contractors & Suppliers

SUBJECT: Village of Lostant
Proposed Village Hall – RE-BID
ADDENDUM NO. 4

This Addendum shall consist of the following items:

1. Bids were opened for the subject project on April 16, 2024. Per the Village Board, all bids were rejected. This project will be re-bid on Tuesday, May 21, 2024, at 10:00 a.m.
2. **The size of the building has been reduced from 44 ft x 80 ft to 36 ft x 48 ft. There will be no alternate bid for a garage addition.**
3. This re-bid does not include Owner allowance for appliances and furniture.
4. A new Bid Package is included herein.
5. Specification Sections 01 1000 – Summary and 13 3418 – Pre-Engineered Timber Column Structure have been revised and are included herein.
6. Delete Specification Sections 06-4100 – Casework and 08 03613 – Sectional Overhead Doors & Operators.
7. Revised plans have been uploaded to our website at www.chamlin.com .

Please be advised that this Addendum must be acknowledged on the Bid Form. Failure to do so may result in rejection of your Bid.

Sincerely,

CHAMLIN & ASSOCIATES, INC.



David A. Hall, P.E.

DAH:law

cc: File No. 111518.00

Enclosure



Name

Address

City, State, Zip Code

BID PACKAGE
FOR
VILLAGE OF LOSTANT
PROPOSED VILLAGE HALL
(RE-BID)

DOCUMENTS REQUIRED FOR BID SUBMITTAL

Bid Form.....
Bid Bond

Note: Please use this Bid Package for your submittal. Do not submit the entire specification book.

**BIDDERS ARE ADVISED THAT BIDS MUST BE DELIVERED
DIRECTLY TO THE OWNER.
BIDS WILL NOT BE ACCEPTED BY CHAMLIN & ASSOCIATES.**

BID FORM

(LUMP SUM)

Name

Address

City, State, Zip Code

PROJECT IDENTIFICATION: Village of Lostant
Proposed Village Hall (RE-BID)

CONTRACT ID & NUMBER: Chamlin Project No. 111518.00

THIS BID SUBMITTED TO: Wendy Forrest, Village Clerk
Village of Lostant
107 W. Third Street
Lostant, IL 61334

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 1—OWNER AND BIDDER

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

2.01 The following documents are submitted with and made a condition of this Bid:

- A. Required Bid security.

ARTICLE 3—BASIS OF BID

3.01 ***Bidder acknowledges that they shall provide at least 40% of all labor required for the completion of this project.***

3.02 *Lump Sum Bids*

A. Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

LUMP SUM BID

Lump Sum Bid Price for Base Bid (36 ft x 48 ft). No allowance for appliances and furniture.	\$
List Name of Post Frame Building Manufacturer (must be on approved list in Specification Section 13 3418)	
Estimated Date to Begin Work	

ARTICLE 4—TIME OF COMPLETION

4.01 Bidder agrees that the Work will be substantially complete within **300** calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within **330** calendar days after the date when the Contract Times commence to run.

4.01 Bidder accepts the provisions of the Agreement as to liquidated damages. ***Bidder accepts that liquidated damages shall be assessed at \$500 per calendar day.***

ARTICLE 5—BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.01 *Bid Acceptance Period*

A. This Bid will remain subject to acceptance for 60 days after the Bid opening, ***or as indicated in the advertisement or invitation to bid. Bidder will sign the Agreement and submit the Contract Documents within 15 days after the date of the Owner’s Notice of Award.***

5.02 *Instructions to Bidders*

A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

5.04 Bidder's Representations

A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
3. Bidder is familiar with all **Federal, State and Local** Laws and Regulations that may affect cost, progress, and performance of the Work.
4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings. **(If applicable.)**
5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings. **(If applicable.)**
6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs. **(If applicable.)**
7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

5.05 Bidder's Certifications

A. The Bidder certifies the following:

Modified by Chamlin & Associates from EJCD[®] C-410, Bid Form for Construction Contract.
Copyright[®] 2018 National Society of Professional Engineers, American Council of Engineering Companies,
and American Society of Civil Engineers. All rights reserved.

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 5.05.A:
 - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.
 - c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.
 - d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.
5. ***Bidder is not barred from bidding as a result of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.***

BIDDER hereby submits this Bid as set forth above:

Bidder:

(typed or printed name of organization)

By: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

Address for giving notices:

Bidder's Contact:

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Phone: _____

Email: _____

Address: _____

Bidder's Contractor License No.: (if applicable) _____

Note: Revisions to this Bid Form will be highlighted in bold italics.

BID BOND (PENAL SUM FORM)

Bidder Name: Address <i>(principal place of business)</i> :	Surety Name: Address <i>(principal place of business)</i> :
Owner Name: Village of Lostant Address <i>(principal place of business)</i> : 107 W. Third Street, P.O. Box 186 Lostant, IL 61334	Bid Project <i>(name and location)</i> : Proposed Village Hall (RE-BID) 400 S. Main Street, Lostant, IL Bid Due Date: May 21, 2024
Bond Penal Sum: Date of Bond:	
Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth in this Bid Bond, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.	
Bidder	Surety
<i>(Full formal name of Bidder)</i>	<i>(Full formal name of Surety) (corporate seal)</i>
By: _____ <i>(Signature)</i>	By: _____ <i>(Signature) (Attach Power of Attorney)</i>
Name: _____ <i>(Printed or typed)</i>	Name: _____ <i>(Printed or typed)</i>
Title: _____	Title: _____
Attest: _____ <i>(Signature)</i>	Attest: _____ <i>(Signature)</i>
Name: _____ <i>(Printed or typed)</i>	Name: _____ <i>(Printed or typed)</i>
Title: _____	Title: _____
<i>Notes: (1) Note: Addresses are to be used for giving any required notice. (2) Provide execution by any additional parties, such as joint venturers, if necessary.</i>	

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Bidder's and Surety's liability. Recovery of such penal sum under the terms of this Bond will be Owner's sole and exclusive remedy upon default of Bidder.
2. Default of Bidder occurs upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation will be null and void if:
 - 3.1. Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
 - 3.2. All Bids are rejected by Owner, or
 - 3.3. Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions does not in the aggregate exceed 120 days from the Bid due date without Surety's written consent.
6. No suit or action will be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety, and in no case later than one year after the Bid due date.
7. Any suit or action under this Bond will be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder must be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Postal Service registered or certified mail, return receipt requested, postage pre-paid, and will be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond will be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute governs and the remainder of this Bond that is not in conflict therewith continues in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

INVITATION TO BID

(RE-BID)

Sealed Bids will be received by the Village of Lostant for "Proposed Village Hall" and is further described as follows: Construct 36 ft x 48 ft post-frame building with full interior buildout and exterior utilities and sitework, along with all appurtenances.

Bids shall be submitted no later than 10:00 a.m. at the office of the Village Clerk, at 107 W. 3rd Street, Lostant, IL 61334 on Tuesday, May 21, 2024. Proposals will be opened and publicly read at that time. **Bids must be mailed or otherwise hand-delivered at the time of bidding. Any other method of delivery must be pre-arranged with the Village Clerk as the Clerk's office may not be staffed during normal business hours.**

Plans and specifications may be accessed on-line at: www.chamlin.com

Full-size plans and specifications are available from Chamlin & Associates, Inc., 218 W Lafayette St, Ottawa, IL 61350 at the non-refundable cost of \$50 per set.

Bidders are advised that this Contract will be subject to the Illinois Prevailing Wage Act.

Bidders are advised that this Contract will be subject to the Illinois Steel Products Procurement Act.

The successful Bidder shall provide at least 40% of all labor required for the completion of this project.

The Bid shall be accompanied by a certified check or bid bond, in the amount of five percent (5%) of the gross amount of the bid and be payable to the order of Jim Kreiser, Village Treasurer.

Bids may be held by the Village of Lostant for a period not to exceed 60 days from the date of the opening of Bids for the purpose of reviewing the Bids and investigating the qualifications of Bidders, prior to awarding of the Contract.

The Owner reserves the right to accept or reject any or all Bids and to waive any informalities in the bidding.

BY ORDER OF:

PRESIDENT & BOARD OF TRUSTEES
VILLAGE OF LOSTANT, ILLINOIS

SECTION 01 1000 - SUMMARY

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Contract description.
 2. Explanation of base bid.
 3. Explanation of alternate bids.
 4. Contractor's use of Site and premises.
 5. Specification conventions.

1.2 CONTRACT DESCRIPTION

- A. Work of the Project includes, but not limited to, construction of a 36' x 48' timber column structure, complete with plumbing, electrical, HVAC, interior finishes and necessary site work. The Contractor shall carefully review each item listed below and provide project costs accordingly.
- B. Time Restrictions for Performing Work: From Notice to Proceed date, the work shall be substantially complete within 300 days, and final completion within 330 days.
- C. Perform Work of the Contract in accordance with the General Conditions and Supplementary Conditions.

1.3 EXPLANATION OF BASE BID

- A. **Base Bid:** The following items listed provide a breakdown on constructing a timber column structure complete as shown on the Drawings and described in the documents herein. The Contractor shall be responsible for providing the items required under the Base Bid and all materials necessary to properly install such equipment.
1. **Timber Column Structure** – Complete construction of a 36' x 48' x 10' (heel height) timber column structure. This shall include, but not necessarily be limited to the following:
 - a. Building Framing: (Pre-manufactured or treated lower column post, 3-ply treated upper column post, wood truss system, roof purlins, bookshelf wall girts, baseboard, headers, furring, and miscellaneous framing.)
 - b. Pre-Finished Metals: Roof panels, siding, soffit, metal trims, and gutter and downspouts.
 - c. Wainscot: pre-fabricated decorative stone exterior wall panels; metal siding wall panels.
 - d. Insulation: Attic/ceiling fiberglass batt and all exterior wall closed cell spray foam.
 - e. Concrete floor slab throughout building with thickened edge.
 - f. Interior floor finishes: Luxury vinyl plank and carpet tile, where indicated on Plans.
 - g. Interior wall finishes: Painted gypsum board.
 - h. Ceiling finishes: Painted gypsum board in indicated areas; acoustical ceiling tile grid system in indicated areas.

- i. Exterior metal man-doors; interior wood veneer solid core man-doors (one ¾ hour rated)
 - j. Underfloor and above-floor plumbing which includes:
 - 1) All building waste piping and related vent piping as required to complete an approved system. Connect waste piping to Village sewer main on west edge of lot.
 - 2) Cold water service line with strainer, meter and RPZ (double check valve). Service line to connect to existing water service on lot.
 - 3) Hot and cold water interior piping, water heater, plumbing fixtures.
 - 4) All indicated floor drains and cleanouts.
 - k. Electrical system: full electrical service, distribution panel, branch circuits, switches and outlets.
 - l. Lighting system: complete lighting system as indicated on the Drawings.
 - m. HVAC system: complete ventilation and conditioning system as indicated on the Drawings, including equipment, ductwork, grilles and thermostats.
 - n. Exterior insulated windows.
2. Site Work:
- a. Complete developed site as indicated on the Drawings, including erosion control, utility connections, grading, paving, sidewalk, seeding and restoration.
 - b. Coordinate with Village and all utilities to make service connections.

1.4 CONTRACTOR'S USE OF SITE

- A. Limit use of site to allow:
 - 1. Work by Others and Work by Owner.
 - 2. Use of site by the public and Owner as necessary.
- B. Construction Operations: Limited to areas noted on Drawings.

1.5 WORK SEQUENCE

- A. The Contractor shall submit, within 15 days after date of Owner-Contractor Agreement, an anticipated work sequence and revised work sequence with each pay request.

1.6 SPECIFICATION CONVENTIONS

- A. These Specifications are written in imperative mood and streamlined form. This imperative language is directed to Contractor unless specifically noted otherwise. The words "shall be" are included by inference where a colon (:) is used within sentences or phrases.
- B. In addition to these Specifications, the following documents shall be considered standard specifications for this project:
 - 1. International Building Code, 2021 edition.
 - 2. Illinois State Plumbing Code, 2014 edition.
 - 3. Illinois Accessibility Code, latest edition and 2010 ADA Standards.
 - 4. National Electric Code, 2023 edition.
 - 5. Other regulations as applicable.

- C. In case of conflict between the above-referenced “Standard Specifications” and the Drawings and Specifications for this project, the Drawings and Specifications for this project will govern.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

SECTION 13 3418 – PRE-ENGINEERED TIMBER COLUMN STRUCTURE

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Pre-engineered factory and field fabricated timber column structure.
2. Prefinished metal roofing and siding panels.
3. Prefinished metal trim items.
4. Prefinished soffits.
5. Prefinished gutters and downspouts.
6. Insulation, interior framing and liner package.

1.2 PRODUCTS FURNISHED BUT NOT INSTALLED UNDER THIS SECTION

A. None

1.3 RELATED SECTIONS

1.4 REFERENCE STANDARDS

A. Preservative Treated Lumber:

1. American Wood Protection Association (AWPA)
 - a. Commodity Specification C2 (2001), Preservative Treatment By Pressure Processes
 - b. Use Category System U1, User Specification for Treated Wood
 - c. UC4A (Important Structural – Ground Contact)
 - d. UC4B (Structural Support – Ground Contact)
 - e. Items treated under AWPA standards shall bear the quality mark of an independent testing agency or service
2. International Code Council Evaluation Service (ICC-ES)
 - a. Items treated under ICC-ES reports shall meet or exceed the applicable standard and shall bear the quality mark of an independent testing agency or service
3. Federal Specification TT-W-571-J.

B. Framing Lumber:

1. Lumber Grading Rules and Wood Species
 - a. National Design Specification for Wood Construction, current edition
 - b. Northeastern Lumber Manufacturer's Association, Inc. (NELMA)
 - c. Southern Pine Inspection Bureau (SPIB)
 - d. West Coast Lumber Inspection Bureau (WCLIB)
 - e. Western Wood Products Association (WWPA)

C. Wood Trusses:

1. All lumber used in the design of wood trusses shall be kiln dried to maximum 19% moisture content and graded in accordance with the current grading rules. Design stresses allowed are those listed in the current editions of the respective Lumber Association's grading rules.

2. The design of wood members shall be in accordance with the formulas published in the 2001 edition of the National Design Specification for Wood Construction.
3. Light metal toothed connector plates and joint design shall conform to specifications as set forth in the 2002 edition of Truss Plate Institute's Design Specification for Metal Plate Connected Wood Trusses (TPI-2002).
 - a. Connector plates shall be fabricated in accordance with applicable ICC-ES standards.
4. Truss members and joints shall be designed in accordance with TPI-2002. All truss designs shall be accompanied by complete and accurate shop drawings and contain the following information:
 - a. Slope or depth, span and spacing of the truss
 - b. Heel bearing height
 - c. Design loading to include:
 - 1) Top chord live load
 - 2) Top chord dead load
 - 3) Bottom chord dead load
 - 4) Concentrated loads and their points
 - d. Adjustments to lumber and plate design values for conditions of use
 - e. Plate type, thickness of gauge and size
 - f. Lumber size, species and grade for each member

1.5 SYSTEM DESCRIPTION

- A. Clear span.
- B. Bay spacing: not more than ten (10) feet.
- C. Primary Framing:
 1. Columns
 2. Trusses
 3. Wind bracing.
- D. Secondary Framing:
 1. Perimeter baseboards and preservative treatment
 2. Wall girts (bookshelf style)
 3. Purlins
 4. Overhang rafters and fascia
 5. Ancillary blocking or furring as required
- E. Roof Covering:
 1. Prefinished ribbed metal panels
 2. Other roof coverings as required
- F. Wall Covering:
 1. Prefinished ribbed metal panels
 2. Other wall coverings as required
- G. Insulation and Liner Package:
 1. Wall insulation
 2. Ceiling insulation

3. Air deflectors
4. Vapor retarder
5. Wall stripping
6. Prefinished ribbed metal panels

1.6 DESIGN REQUIREMENTS

- A. Design Standard
 1. International Building Code, 2018 Edition
- B. Roof Design Loads
 1. Top Chord Live Load: 20 PSF
 2. Top Chord Dead Load: 10 PSF
 3. Bottom Chord Dead Load:
- C. Wind Speed
 1. 107 MPH (V). Exposure "C"
- D. Roof and wall system shall be able to withstand the imposed loads with maximum allowable deflection of $L/180$.
- E. Assembly shall permit movement of components without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects.
- F. Size and fabrication of wall and roof systems to be free of distortion or defects that would be detrimental to appearance or performance.

1.7 SUBMITTALS

- A. Provide four (4) sets of the following bearing the seal of a licensed Structural Engineer, registered in the State of Illinois.
 1. Complete and detailed shop and erection drawings showing size and location of each part and component, certifying that the building design meets specified roof and wind loading requirements.
 2. Truss engineering analysis and design data, including the following:
 - a. Axial forces and bending moments for each member
 - b. Basic plate design value
 - c. Design analysis of each joint showing that proper plates have been applied
 3. Manufacturer's standard color chart (chips) representing manufacturer's full range of colors and patterns.

1.8 QUALITY ASSURANCE

- A. Fabricate members in accordance with standard industry practice.

1.9 QUALIFICATIONS

- A. Contractor shall have a minimum of ten years documented experience in the manufacture and five years documented experience in erection of this type of structure.

- B. Design structural components under direct supervision of a registered Structural Engineer experienced in design of this work and licensed in the State of Illinois.
- C. Employ adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and methods needed for proper and safe performance of the work.
- D. Contractor shall be responsible for all materials, whether furnished by himself or a subcontractor, and proper storage of the same.

1.10 REGULATORY REQUIREMENTS

- A. Contractor shall be responsible for compliance with all applicable building codes and ordinances covering the work.
- B. Contractor shall cooperate with regulatory agencies or authorities to provide data as requested.

1.11 PRE-CONSTRUCTION MEETING

- A. The meeting will convene no later than one week prior to commencing work under the direction of the Engineer.

1.12 FIELD MEASUREMENTS

- A. Field measurements shall be taken to verify that components match shop drawings. The Contractor shall be responsible for all field measurements to verify plan dimensions.

1.13 DELIVERY, STORAGE AND HANDLING

- A. Deliver and store prefabricated components (trusses, columns, steel panels and other items) so that they will not be damaged or deformed.
- B. Stack materials on platforms, pallets or other structures covered with tarpaulins or other suitable weather-tight ventilated covering. Handle and store structural parts in a manner that will avoid deforming members or subjecting parts to excessive stresses.
- C. Store roofing and siding panels to allow water to drain freely.
- D. Panels shall not be stored in contact with other materials that may cause staining or discoloration.

1.14 PROJECT CONDITIONS

- A. Coordination.
- B. Fit carpentry work to other work. Scribe and cope as required for accurate fitting.
- C. Correlate location of furring, nailers, blocking and supports to allow for attachment of other work.

1.15 CERTIFICATIONS

- A. If a bidder submits a proposal using a building manufacturer not listed in Section 2.1 of this Specification, in order for the bidder's proposal to be considered, the following certifications shall be tendered with the bid forms:
1. Certification that building components will meet this Specification:
 - a. Steel roofing and siding
 - b. Treated lumber
 - c. Paint system
 2. Qualifications:
 - a. Certification of documented experience designing and constructing timber structures, including project references and ability to obtain stamped drawing package for building.
 3. Warranty
 - a. Sample copy of warranty to be issued at completion of project
 - b. Verification that warranty meets or exceeds the requirements stated in the technical specification

1.16 WARRANTY

- A. The building manufacturer shall supply a warranty to the Owner which shall provide that the manufacturer will:
1. For a period of fifty (50) years:
 - a. Absorb repair or replacement costs, including materials and labor, if any preservative treated lumber fails due to decay or insect attack
 - b. Repair, or at its discretion, replace free of charge the building framework, including roofing and/or siding panels, if directly damaged by snow loads.
 2. For a period of thirty-five (35) years:
 - a. Repaint any roofing or siding panel on which, under conditions of normal weather, the paint has separated from the panels due to flaking or peeling.
 - b. Repaint any roofing or siding panels on which, under conditions of normal weathering, chalking greater than a rating of 8 (ASTM D4212 Method 'A') or color change greater than five (5) units (ASTM D2244) has occurred.
 3. For a period of ten (10) years:
 - a. Repaint any roofing or siding panel on which, under conditions of normal weather, exhibit corrosion resulting in red rust greater than 1/2 inch from any sheared edge which is clearly visible in casual observation.
 4. For a period of five (5) years:
 - a. Repair, or at its discretion, replace free of charge the building framework, including roofing and/or siding panels, if directly damaged by wind loads, unless damage is caused by flying or falling objects.
 - b. Repair any roof leaks due to defects in materials or workmanship.
 5. For a period of one (1) year:
 - a. Repair other building parts that prove to be defective in materials or workmanship.
 6. The manufacturer shall not be liable for damage due to deterioration caused by interior chemical vapors and/or dust, deterioration from proximity to salt water body or aggressive exterior atmosphere, damage by flying or falling objects, or collateral damage to interior walls, ceiling, partitions, equipment and/or contents, or cost of preparation of the site.

PART 2 PRODUCTS

2.1 MANUFACTURERS – BUILDING SYSTEM

- A. MORTON BUILDINGS
- B. LESTER BUILDING SYSTEMS
- C. WICK BUILDINGS
- D. CLEARY BUILDINGS
- E. FBI BUILDINGS
- F. BORKHOLDER BUILDINGS
- G. MIDWEST MANUFACTURING
- H. Other manufacturers that meet requirements herein and submit certifications required in Section 1.15.

2.2 MATERIALS – FRAMING

- A. Columns:
 - 1. Lower portion:
 - a. Precast Concrete Column (10,000 PSI Concrete) with Internal column connector or No. 1 (or better) Southern Yellow Pine, pressure treated w/chromated copper arsenate, Type III, kiln dried to 19% maximum moisture with anchor blocks adhered to column base and concrete collar pinned to column base with steel reinforcing rods.
 - 2. Upper portion:
 - a. Factory fabricated from minimum 3-ply No. 1 SYP or Douglas Fir-Larch.
 - b. Attach upper column to lower column with appropriate number and size of pneumatically driven fasteners.
 - c. Provide factory or field installed blocking on outside face of column between nailers.
 - d. Endwall, sidewall and corner columns shall be constructed as required by building “structural design.”
- B. Wood Trusses:
 - 1. Lumber:
 - a. Top Chord: Southern Yellow Pine of size and grade to meet design requirements
 - b. Bottom Chord: Southern Yellow Pine of size and grade to meet design requirements
 - c. Webs: Southern Yellow Pine of size and grade to meet design requirements
 - 2. Trusses shall be constructed of surfaced lumber (S4S) and compliant with SPIB visual and structural grade requirements
 - 3. Plates: Connector plates shall meet design requirements and shall be compliant with applicable ICC-ES standards and specifications
 - 4. Design and fabricate trusses and connections to withstand snow, wind and all dead loads.
 - 5. Fabricate trusses in plant, using mechanical or hydraulic fixtures as required to bring members into contact. Install plates in accordance with manufacturer’s instructions.

6. Stamp trusses with inspection agency identification.
- C. Baseboards:
 1. 2" x 8" No. 2 or better Southern Yellow Pine.
 2. Pressure treated with wood preservative to a retention in compliance with applicable AWWA or ICC-ES standards and specifications and kiln dried after treatment to 19% maximum moisture content
 3. Preservative shall penetrate 100% of sapwood.
 - D. Wall Girts:
 1. First nailer (girt) above baseboard: 2" x 6" No. 2 or better Spruce-Pine-Fir (SPF).
 2. Balance of nailers: 2" x 4" 2100 MSR (minimum) SPF.
 3. Overhang top nailer: 2" x 6" No. 2 or better SPF.
 - E. Base Reinforcement:
 1. 7/16" x 32" OSB panels installed between the baseboard and first nailer and located in notches.
 - F. Purlins and Truss Ties:
 1. 2" x 4" No. 2 or better SPF
 - G. Overhang Framing:
 1. Provide factory fabricated rafter frames.
 2. Provide 2" x 6" No. 2 or better SPF factory beveled fascia boards.
 - H. Wind Bracing:
 1. 2" x 6" No. 2 or better SPF from endwall column to first truss back.
 - I. Framing Around Openings:
 1. 2" x 4" No. 2 or better SPF around personnel doors.
 2. 2" x 6" No. 2 or better SPF around overhead door openings.
 - J. Headers:
 1. Provide built-up headers as required for proper installation.
 - K. Incidental Framing:
 1. 1. 2" x 4" and/or 2" x 6" No. 2 or better SPF
 - L. Interior Framing:
 1. 2" x 4" No. 2 or better SPF
- ## 2.3 MATERIALS – PREFINISHED METALS
- A. Roofing Panels:
 1. Panel substrate shall be 26 gauge minimum thickness commercial steel sheet with G90 (zinc) coating per ASTM A653 or AZ55 (aluminum/zinc) coating per ASTM A792.
 2. The weather side of the panel shall receive a nominal two tenths mil polyurethane primer and a nominal eight tenths mil topcoat of 70% polyvinylidene difluoride (PVDF) resin to achieve a total nominal paint film thickness of one mil.

3. Color selection of siding panels shall be from the manufacturer's standard color chart.
4. The non-weather side paint system shall consist of a two coat finish with a total nominal thickness of one-half mil.

B. Siding Panels:

1. Panel substrate shall be 26 gauge minimum thickness commercial steel sheet with G90 (zinc) coating per ASTM A653 or AZ55 (aluminum/zinc) coating per ASTM A792.
2. The weather side of the panel shall receive a nominal two tenths mil polyurethane primer and a nominal eight tenths mil topcoat of 70% polyvinylidene difluoride (PVDF) resin to achieve a total nominal paint film thickness of one mil.
3. Color selection of siding panels shall be from the manufacturer's standard color chart.
4. The non-weather side paint system shall consist of a two coat finish with a total nominal thickness of one-half mil.

C. Metal Trim Items :

1. Die-formed steel from the same quality material as the siding panels

D. Interior Panels:

1. Panel substrate shall be 26 gauge minimum thick commercial steel sheet with an AZ50 (Galvalume) coating ASTM A792.
2. The interior-facing side of the panel shall receive a nominal two tenths mil acrylic primer and a nominal eight tenths mil top coat of white polyester paint to achieve a total nominal paint film thickness of one mil.
3. The hidden (backer) side paint system shall consist of a two coat finish with a total nominal thickness of one half mil.

2.4 MATERIALS – OTHER

A. Corner Bracing:

1. Provide 1-1/4" wide high tensile steel strapping in all unobstructed corners in an "X" configuration.

B. Roofing and Siding Fasteners:

1. EPDM washed, painted, center drive stainless steel screws for ribbed steel panels

C. Closure Strips:

1. Closed cell foam.

D. Sealant:

1. 100% neutral curing silicone sealant, and
2. Paintable sealant where required

E. Insulation:

1. Minimum 2" thick closed-cell spray foam insulation in exterior walls.
2. Minimum 6" thick, R19 fiberglass blankets in certain interior walls indicated on Drawings
3. Minimum R38 blown-in fiberglass insulation in ceiling.

F. Vapor Retarder:

1. 4 mil. thick polyethylene sheets

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify site conditions are acceptable for erection/installation of pre-engineered structure and appurtenances.
- B. Coordinate with responsible entity to perform corrective work on unsatisfactory conditions.

3.2 ERECTION – FRAMING – GENERAL

- A. Erect framing in accordance with manufacturer's established construction procedures.
- B. Make all components and building plumb, square, straight and true to lines, according to industry standards.
- C. Provide adequate temporary bracing to assure structure remains plumb and square until permanent bracing is installed.

3.3 ERECTION – FRAMING

- A. Lower Column:
 - 1. Auger a hole to depth (48" minimum) with diameter as required by the building manufacturer.
 - 2. Accurate position lower column in the hole.
 - 3. Place 4000 PSI pre-cast concrete footing pad or ready-mix concrete in hole to footing size and thickness indicated on plans.
 - 4. Backfill with dry soil, compacted in 8" lifts.
- B. Upper Column:
 - 1. Set column to proper position.
 - 2. Install manufacturer's recommend quantity and size fasteners as required.
- C. Baseboards:
 - 1. Install 2" x 8" treated plank, at grade, using builder's recommended fasteners.
- D. Wall Girts:
 - 1. Install 2" x 6" notched nailer to receive OSB panel.
 - 2. Install 2" x 4" nailers with on-center spacing as shown on building plans.
 - 3. Install 2" x 6" overhang nailer at the top.
- E. Trusses:
 - 1. Set trusses in plane with the center member of the upper column using lifting methods as approved by the manufacturer.
 - 2. When properly positioned, install two ½" diameter machine bolts and manufacturer-recommended 20d ring shank nails through two of the upper column laminates and the truss heel.
 - 3. Brace trusses as recommended by the manufacturer.

- F. Purlins:
 - 1. Install 2" x 4" purlins at 24" on-center (maximum) and attached to trusses with 60d ring shank nails.
- G. Wind Bracing:
 - 1. Install 2" x 6" angled bracing at locations recommended by the manufacturer.
- H. Incidental Framing:
 - 1. Install 2" x 4" or 2" x 6" blocking as required according to building manufacturer's recommendations.
- I. Interior Framing:
 - 1. Install 2" x 4" baseboard at 4" above grade and case in metal trims.
 - 2. Install 2" x 4" horizontal stripping at 36" o.c. (max) in areas receiving ribbed steel panels.
 - 3. Install 2" x 4" horizontal stripping at 16" o.c. in areas receiving gypsum board if applicable.

3.4 ERECTION – PREFINISHED MATERIALS – GENERAL

- A. Roofing Panels:
 - 1. Install panels perpendicular to supports, aligned straight with end fascia.
 - 2. Fasten panels to purlins with screw fasteners.
- B. Siding and Wainscot Panels:
 - 1. Install panels perpendicular to supports, aligned level and plumb to industry standards.
 - 2. Fasten panels to wall girls with screw fasteners.
- C. Trim Items:
 - 1. Install trim items at the base, corners, top of steel siding, fascia, gables and ridge using appropriate fasteners.
- D. Vent-A-Ridge:
 - 1. Install over ridge trim using screw fasteners.
 - 2. Ensure that a minimum of 2" clear throat opening is maintained.
- E. Soffits:
 - 1. Install soffits to interlock with trim items at top of steel siding and at fascia.
 - 2. Use solid soffit at end overhang.
 - 3. Use a combination of solid and perforated soffits to provide balanced ventilation at side overhangs.
- F. Gutter and Downspouts:
 - 1. Install gutters with spikes and ferrules (with washers) spaced 24" on-center.
 - 2. Silicone sealant and silicone rubber gaskets shall be used at laps to maintain leak prevention and to relieve stress due to thermal movement.
- G. Filler Strips:
 - 1. Provide closed cell foam filler strips at the top and bottom of the roofing panels.
- H. Interior Panels:

1. Install panels perpendicular to supports, aligned level and plumb.
2. Fasten panels to wall girts with 1" painted screws.
3. Fasten panels to lower truss chords with 1" painted screws.

3.5 TOLERANCES

- A. Framing Members:
 1. 1/4" from level.
 2. 1/8" from level.
- B. Siding and Roofing:
 1. 1/8" from true position.

END OF SECTION