

**Project Manual and Specifications**

# **Snapple Building Tornado Repair**

**for the**

**London-Laurel County Economic  
Development Authority**

**Laurel County, Kentucky**

**August 2025**



**OF KENTUCKY, INC.**

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## SECTION 00020 - ADVERTISEMENT FOR BIDS

### London-Laurel Co. Economic Development Authority “Snapple” Building Repair London, Laurel County, Kentucky

Sealed bids for the construction of the McDaniel Industrial Park Access Road Grade, Drain & Paving for the London- Laurel Co. Economic Development Authority will be received by Paula Thompson, Executive Director, until 10:30 a.m., local time, the 25th of August, 2025 and then will be publicly opened and read aloud. Bids for the construction of the Project will be received at the London-Laurel Co. EDA office located at 1105 W. 5<sup>th</sup> Street, Ste. 2, London, KY 40744.

The project consists of tornado damage repairs to the exterior of the “Snapple” building located at 22 Airpark Drive in London, KY. The CONTRACT DOCUMENTS may be reviewed at the following locations:

MSE Web Site: [mselex.com](http://mselex.com) under Bid Opportunities.

London-Laurel Co. EDA office located at 1105 W. 5<sup>th</sup> Street, Ste. 2, London, KY 40744.

Copies of the Contract Documents may be obtained at the office of Lynn Imaging, 328 E. Vine St. Lexington, KY 40507, (859) 226-5850. A shipping/printing fee of \$200 is required. All orders must be prepaid. There will be a 24-hour turn-around on all orders.

The successful bidder will be required to furnish a Certificate of Insurance.

Attention of bidders is particularly called to the requirements as to conditions of employment to be observed. Minority bidders are encouraged to bid.

The Owner may consider informal any bid not prepared and submitted in accordance with the provisions of this advertisement and/or the specifications and may waive any informalities or reject any and all Bids. Any proposal received after the time and date specified shall not be considered and will be returned unopened to the proposer.

Sealed bid should be labeled "Snapple Building Repairs". If mailed/shipped, bid should be enclosed in another envelope and addressed to: London-Laurel Co. Economic Development Authority, London-Laurel Co. EDA office located at 1105 W. 5<sup>th</sup> Street, Ste. 2, London, KY 40744. No Bidder may withdraw his Bid for a period of sixty (60) days after the actual date of the opening thereof.

State and Federal Wage Rates **do not** apply to this project.

Award will be made to the lowest, responsive, responsible bidder. Bidding is for the sole benefit of the London-Laurel Co. EDA.

The London-Laurel Co. EDA is an Equal Employment Opportunity Employer.

End of Section

## **SECTION 00200 - INFORMATION FOR BIDDERS**

Bids will be received by the London-Laurel County Economic Development Authority, (herein called the "Owner") at the London-Laurel Co. EDA office located at 1105 W. 5<sup>th</sup> Street, Ste. 2, London, KY 40744, until the time and date stated on the Advertisement for Bids, and then at said location publicly opened and read aloud.

Each Bid must be submitted in a sealed envelope, addressed to London-Laurel Co. Economic Development Authority. Each sealed envelope containing a Bid must be plainly marked on the outside as "Snapple Building Repairs", and the envelope should bear on the outside the BIDDER'S name, address and license number if applicable. If mailed/shipped, bid should be enclosed in another envelope and addressed to: Paula Thompson, Executive Director, London-Laurel Co. EDA, 1105 W. 5<sup>th</sup> Street, Ste. 2, London, KY 40744.

All Bids must be made on the required Bid Form. All blank spaces for Bid prices must be filled, in, in ink or typewritten, and the Bid Form must be fully completed and executed when submitted. Only one copy of the Bid Form is required.

The OWNER may waive any informalities or minor defects or reject any and all Bids. Any Bid may be withdrawn prior to the above scheduled time for the opening of Bids or authorized postponement thereof. Any Bid received after the time and date specified shall not be considered. No BIDDER may withdraw a Bid within sixty (60) days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the OWNER and the BIDDER.

BIDDERS must satisfy themselves of the accuracy of the estimated quantities in the Bid Schedule by examination of the site and a review of the drawings and specifications including Addenda. After Bids have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the quantities of Work or of the nature of the Work to be done.

The OWNER shall provide to BIDDERS prior to bidding, all information which is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired.

The Contract Documents contain the provisions required for the construction of the project. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve the CONTRACTOR from fulfilling any of the conditions of the contract.

The Notice to Proceed shall be issued within ten (10) days of the execution of the Agreement by the OWNER. Should there be reasons why the Notice to Proceed cannot be issued within such period, the time may be extended by mutual agreement between the OWNER and CONTRACTOR. If the Notice to Proceed has not been issued within the ten (10) day period or within the period mutually agreed upon, the CONTRACTOR may terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as deemed necessary to determine the ability of the BIDDER to perform the Work, and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any Bid if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER that such BIDDER is

properly qualified to carry out the obligations of the Agreement and to complete the WORK contemplated therein.

A conditional or qualified Bid will not be accepted.

Award will be made to the lowest responsible BIDDER.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout.

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the Contract Documents. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to its Bid.

The low BIDDER shall supply the names and addresses of major material suppliers and subcontractors when required to do so by the OWNER.

End of Section

## SECTION 00310 - BID SCHEDULE

Proposal of \_\_\_\_\_ (hereinafter called "BIDDER"), organized and existing under the laws of the State of \_\_\_\_\_ doing business as \_\_\_\_\_\* to the London-Laurel County Economic Development Authority (hereinafter called "OWNER").

The London-Laurel County Economic Development Authority is requesting bids for tornado damage repairs to the exterior of the "Snapple" building located at 22 Airpark Drive in London, KY.

By submission of this BID, each BIDDER certifies, and in the case of a joint BID, each party thereto certifies as to its own organization, that this BID has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this BID with any other BIDDER or with any competitor.

BIDDER hereby agrees to commence Work under this contract on or before a date to be specified in the Notice to Proceed and to complete the Project within one hundred twenty (120) consecutive calendar days following the Notice to Proceed. BIDDER further agrees to pay as liquidated damages, the sum of \$250.00 for each consecutive calendar day thereafter as provided in the General Conditions and the Special Conditions. This project does not require the bidder to provide a bid bond or surety, similarly the contractor is not required to provide a performance or payment bond. Insurance requirements do apply for the construction project.

BIDDER agrees to perform all the WORK described in the CONTRACT DOCUMENTS for the lump sum contained in the following Bid Schedule.

The Snapple building will be occupied during construction of repairs. The contractor is required to protect the building interior from damage due to weather or construction. The contractor is to remain aware of pending weather events and not remove more wall or roof panels than can be replaced prior to such an event.

\*Insert "a corporation", "a partnership", or "an individual" as applicable.

Bid form item:

1. Provide all labor, materials and equipment to remove, replace and repair exterior damage at locations shown on the plans:

Item	Description	Units	Cost
A.	26-gauge exterior panels remove and replace where shown on the plans. Match color of existing.	LS	\$ _____
B.	26-gauge corner trim remove and replace where shown on the plans. Match color of existing.	LS	\$ _____
C.	Downspouts. Detach and reset or replace. Match existing color.	LS	\$ _____
D.	Exterior light fixture, detach and reset.	LS	\$ _____
E.	18" Metal column cover with cap and base, Remove and replace, match color of existing.	LS	\$ _____
F.	Roof replacement		
	a. Remove and replace 24-gauge roof panels, ridge cap, ridge end caps, closure strips, and gable trim.	LS	\$ _____
	b. Remove and replace neoprene pipe jack flashing (4).	LS	\$ _____
	c. Gutters - detach, protect and reset gutters.	LS	\$ _____

**TOTAL BID ITEM 1\*** \_\_\_\_\_ \$ \_\_\_\_\_  
(spell total)

- \* Note: Contractor is to deliver all salvaged/scrap metal to the local salvage yard offering the best scrap price and provide documentation in the form of salvage receipts or tickets with the salvage amount payable or credited to the owner. The current estimated value of scrap material is \$3,200.

The bid prices shall include all labor, materials, overhead, profit, insurance, and other costs necessary to install the finished work of the several items called for. Changes shall be processed in accordance with the General Conditions.

This is an invitation for offer to bid, not an offer to enter into a contract.

Addenda to the Drawings and Specifications issued heretofore are hereby acknowledged by the undersigned as being:

No. \_\_\_\_\_ Date: \_\_\_\_\_ No. \_\_\_\_\_ Date: \_\_\_\_\_

No. \_\_\_\_\_ Date: \_\_\_\_\_ No. \_\_\_\_\_ Date: \_\_\_\_\_

BIDDER understands that the OWNER reserves the right to reject any or all Bids and to waive any informalities in the Bidding.

BIDDER agrees that this Bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the actual date of bid opening.

Within ten (10) calendar days after receiving written notice of the acceptance of this Bid by the OWNER, the Bidder will execute and deliver to the OWNER one (1) copies of the Agreement and such other required Contract Documents.

BIDDER:

\_\_\_\_\_  
(Name of Company or Partnership)

By: \_\_\_\_\_  
(Signature) (Date)

\_\_\_\_\_  
(Print Name) (Title)

\_\_\_\_\_  
(Street Address/P.O. Box) (Phone Number)

\_\_\_\_\_  
(City, State, Zip)

\_\_\_\_\_  
(Email Address)

Attested By: \_\_\_\_\_  
(Signature) (Date)

Seal (If bid is by a corporation)

END OF SECTION



## **SECTION 00480 - NON-COLLUSION AFFIDAVIT**

### **PART 1 - GENERAL**

#### **1.01 DESCRIPTION**

A. The Non-Collusion Affidavit for the project shall be submitted with the bid proposal, and a copy of this document is bound herewith.

1. When properly executed, this Document shall become a part of the successful bidder's Contract Document.

**END OF SECTION**

## NON-COLLUSION AFFIDAVIT

The undersigned bidder, on behalf of its officers and agents or representatives being duly sworn, states that it has not in any way, directly or indirectly, entered into any arrangement or agreement with any other bidder, or with any other person or public officer whereby bidder has paid or is to pay to such other bidder or other person or public officer any sum or money, or has given or is to give to such other bidder or other person or public officer anything of value whatever, or such agent or affiant or either of them has not, directly or indirectly, entered into any arrangement or agreement with any other bidder or bidders, which tends to or does lessen or destroy free competition in the letting of the contract sought for by the attached bids; that no inducement of any form or character other than that which appears upon the face of the bid will be suggested, offered, paid or delivered to any person whomsoever to influence the acceptance of the said bid or awarding of the contract, nor has this bidder any agreement or understanding of any kind whatsoever, with any person whomsoever to pay, deliver to, or share with any other person in any way or manner, any of the proceeds of the contract sought by this bid.


Subscribed and sworn to before me by \_\_\_\_\_ this  
\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_

Notary Public

END OF AFFIDAVIT

**SECTION 00490 - NOTICE OF AWARD**

To: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROJECT Description: “Snapple” Building Repairs

The OWNER has considered the BID submitted by you for the above-described WORK in response to its Advertisement for Bids dated August \_\_\_\_\_, 2025 and Information for Bidders.

You are hereby notified that your BID has been accepted for items in the amount of \$ \_\_\_\_\_.

You are required by the Information for Bidders to execute the Agreement and furnish the required CONTRACTOR’s Certificates of Insurance within ten (10) calendar days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said Bonds within ten (10) days from the date of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER’s acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2025.

London-Laurel County Economic Development Authority  
By:

\_\_\_\_\_  
Paula Thompson, Executive Director

**ACCEPTANCE OF NOTICE**

\_\_\_\_\_  
Receipt of the above NOTICE OF AWARD is hereby acknowledged by \_\_\_\_\_ this  
the \_\_\_\_\_ day of \_\_\_\_\_, 2025.

By:

\_\_\_\_\_  
\_\_\_\_\_  
(Name/Title)

## SECTION 00500 - AGREEMENT

THIS AGREEMENT, made this \_\_\_\_\_ day of \_\_\_\_\_, 2025, by and between the London-Laurel County Economic Development Authority, hereinafter called "OWNER" and \_\_\_\_\_, doing business as a corporation (insert "a corporation", "a partnership", or "an individual" as applicable) hereinafter called "CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

1. The CONTRACTOR will commence and complete all work as specified or indicated in the Contract Documents for the Snapple Building Repair Project.
2. The CONTRACTOR will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the construction and completion of the project described herein.
3. The CONTRACTOR will commence the work required by the contract documents within 10 calendar days after the date of the Notice To Proceed and will complete the same within 120 calendar days unless the period for completion is extended otherwise by the Contract Documents. The CONTRACTOR further agrees to pay as liquidated damages, the sum of \$250 for each consecutive calendar day thereafter as provided in the Specifications.
4. The CONTRACTOR agrees to perform all of the work described in the Contract Documents and comply with the terms therein for the sum of \$\_\_\_\_\_, or as shown in the Bid Schedule.
5. The term "CONTRACT DOCUMENTS" means and includes the following:
  - A. Invitation to Bid
  - B. Information for Bidders
  - C. Bid Form
  - D. Agreement
  - F. Certificate of Insurance
  - G. Notice of Award
  - H. Notice to Proceed
  - I. General Conditions
  - J. Administrative Provisions
  - K. Labor Regulations and Wage Rates (If Applicable)
  - L. Technical Specifications
  - M. Drawings and Plan Sheets
  - N. Addenda
6. The project has been designed by MSE of Kentucky, Inc. who will act as ENGINEER in connection with completion of the project in accordance with the Contract Documents.
7. CONTRACTOR shall submit Applications for Payment in accordance with the General Conditions. Applications for Payment will be reviewed by the ENGINEER as provided in the General Conditions.
8. OWNER shall make progress payments on account of the Contract Price on the basis of CONTRACTOR'S Application for Payment as approved by the ENGINEER, on or about the \_\_\_\_\_ of each month during construction as provided in the General Conditions. All progress payments will be on the basis of the progress of work measured by the schedule of values provided for in the General Conditions. Progress Payments, retainage, and withheld payments shall all be done in compliance with the General Conditions. Upon final completion of the work and settlement of all claims, OWNER shall pay the remainder of the Contract Price.

9. Neither OWNER nor CONTRACTOR shall, without the prior written consent of the other, assign or sublet in whole or in part his interest under any of the Contract Documents; and, specifically, CONTRACTOR shall not assign any moneys due or to become due without the prior written consent of the OWNER.
10. OWNER and CONTRACTOR each binds himself, his partners, heirs, executors, administrators, successors, assigns and legal representatives to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, the Agreement in one (1) copy, of which shall be deemed an original on the date first above written.

London-Laurel County Economic  
Development Authority  
\_\_\_\_\_  
(Owner)

\_\_\_\_\_  
(Contractor)

By: \_\_\_\_\_  
(Signature) (Date)

By: \_\_\_\_\_  
(Signature) (Date)

Paula Thompson, Executive Director  
\_\_\_\_\_  
(Name, Title)

\_\_\_\_\_  
(Name, Title)

Attest:

Attest:

By: \_\_\_\_\_  
(Signature) (Date)

By: \_\_\_\_\_  
(Signature) (Date)

\_\_\_\_\_  
(Name, Title)

\_\_\_\_\_  
(Name, Title)

End of Section

## **SECTION 00650 - CERTIFICATES OF INSURANCE**

### **PART 1 - GENERAL**

#### **1.01 GENERAL**

- A. Certificates of Insurance shall be filed with the Owner prior to the commencement of any work. Insurance shall be purchased by the General Contractor.
  - 1. These certificates shall contain a provision that coverages afforded under the policies shall not be canceled or in any way terminated until at least thirty days prior written notice has been given to the Owner and Architect.
  - 2. The Owner and the Architect shall be specifically named as additional insureds on all insurance coverage for this project.
- B. Detailed insurance requirements are covered in Section 00800 - Supplementary General Conditions, and all certificates shall reflect these minimum requirements for the project.

END OF SECTION

**SECTION 00680 - NOTICE TO PROCEED**

To:

Date:

Project: Snapple Building Repairs

You are hereby notified to commence WORK in accordance with the Agreement dated \_\_\_\_\_, 2025 on or before \_\_\_\_\_, 2025, and you are to complete the WORK within 120 consecutive calendar days thereafter.

The date of completion of all work is therefore, \_\_\_\_\_, 202\_\_.

By: London-Laurel Co. Economic Development Authority  
Owner

\_\_\_\_\_  
Paula Thompson, Executive Director

**ACCEPTANCE OF NOTICE**

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by \_\_\_\_\_ this  
the \_\_\_\_\_ day of \_\_\_\_\_, 2025.

By:

\_\_\_\_\_  
Name/Title

## **SECTION 00800 - SUPPLEMENTAL CONDITIONS**

### **PART 1 - GENERAL**

#### **1.01 DESCRIPTION**

- A. The "General Conditions of the Contract for Construction," AIA Document A201, 2017 is a part of this Contract.

#### **1.02 SUPPLEMENTS**

- A. The following supplements modify, change, delete or add to the "General Conditions of the Contract for Construction." Where any Article, Paragraph, Sub-Paragraph or Clause thereof is modified or deleted by these supplements, the unaltered provisions of that Article, Paragraph, SubParagraph or Clause shall remain in effect.

### **PART 2 - ARTICLE 2: OWNER**

#### **2.01 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER**

- 2.2.5 The Contractor can download pdf's from mselex.com.  
MSE will not furnish the Contractor any sets of drawings or project manuals for their use during construction.

### **PART 3 - ARTICLE 3: CONTRACTOR**

#### **3.01 REVIEW OF CONTRACT SUB-PARAGRAPHS**

- A. Add the following sub-paragraphs:
  - 322 The Contractor shall not perform any work at any time requested by persons other than the Architect. Any interpretations to the documents, or request for minor changes in the work will be by the Architect.
  - 323 Where there is a conflict in or between the Drawings and Specifications, the Contractor shall be deemed to have estimated on the more expensive way of doing the work and/or the larger quantity required. Only changes in interpretations covered by Addenda or in writing from the Architect will be permitted during construction of the work.

#### **3.02 WARRANTY**

- A. Add the following sub-paragraph:
  - 3.5.2 General Contractor shall guarantee the work for a period of one year from the date of acceptance by the Owner, except where a longer guarantee is specified and will thus control and leave the work in perfect order at completion. Neither the final certificate of payment any provision in the Contract Documents shall relieve the Contractor of responsibility within the extent and period provided by said guarantee or by law whichever is longer. Upon written notice, he shall remedy any damage to other work resulting therefrom, including necessary labor for removing and replacing.



## **PART 4 - ARTICLE 8: TIME OF COMPLETION AND LIQUIDATED DAMAGES**

See the Bid Schedule, Section 00310, for the time allotted for this contract. The time allowed for completion shall begin at midnight, local time, on the date which the Owner shall instruct the Contractor, in writing, to start work, but not later than 7 days after Notice to Proceed.

The Contract completion time stipulated above includes an allowance for an average number of inclement weather days as follows:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Precip.	7	7	9	8	8	8	8	7	6	5	6	7
Freeze	10	6	1								1	5

When number of days (including Saturdays, Sundays and Holidays) of precipitation in excess of 0.1" per day or maximum daily temperatures of 32 F exceed those shown above in any month, the Contractor shall be entitled to an equal number of additional days for Contract Completion.

This provision for inclement weather shall only apply to that time while foundations are being constructed and prior to the building being "under-roof".

It is understood that time is the essence of this contract and that the Owner will sustain damages, monetary and otherwise, in the event of delay in completion of the work hereby contracted.

Therefore, if the said Contractor shall neglect, fail or refuse to complete the work within the time herein specified, or any proper extension thereof granted by the Owner, then the Contractor does hereby agree, as part consideration for the awarding of this contract, to pay the Owner the amount specified in the contract, not as a penalty, but as liquidated damages for such breach of contract as hereinafter set forth, for each and every calendar day that the Contractor shall be in default after the time stipulated in the contract for completing the work.

The said amount is fixed and agreed upon by and between the Contractor and the Owner because of the extreme difficulty in fixing and ascertaining the actual damages the Owner would in such event sustain, and said amount is agreed to be the amount of damages which the Owner would sustain and said amount shall be retained from time to time by the Owner from current periodical estimates.

## **PART 5 - ARTICLE 9: PAYMENTS AND COMPLETION**

### **5.01 APPLICATIONS FOR PAYMENT**

#### **A. Add the following sub-paragraph:**

9.3.1.1 Monthly payments will be based on one hundred (100%) percent of the value of the work done and materials delivered and suitably stored until work under this contract is fifty (50%) completed. If at that time, progress of the work has been satisfactory, there will be no additional retainage, provided the Contractor submits Consent of Surety for each application, authorizing any remaining partial payments to be paid in full. The form of Application for Payment shall be AIA Document G702, Application for Certificate for Payment, supported by AIA Document G702A Continuation Sheet.

## **PART 6 - ARTICLE 11: INSURANCE AND BONDS**

This project does not require the bidder to provide a bid bond or surety, similarly the contractor is not required to provide a performance or payment bond. Insurance requirements do apply for the construction project.

### **6.01 11.1 CONTRACTOR'S LIABILITY INSURANCE**

#### **A. Change as follows:**

General Contractor shall take out and maintain insurance of such types and in such amounts as are necessary to cover his responsibilities and liabilities on all projects, and shall require all his subcontractors to carry similar insurance.

1. The Owner will accept in lieu of all subcontractors carrying similar insurance an "Owner's and Contractor's Protective Liability Policy" paid for by the Contractor and written in the name of the Owner for the amount specified hereinafter including all the special coverages. Said policy must protect the Owner for all claims for bodily injury and/or property damage arising out of operations for the named insured by said Contractor, or any subcontractor of said Contractor.
- B. No Contractor shall commence work under this contract until he has obtained all insurance required under this section and such insurance has been approved by the Owner, nor shall any Contractor allow any subcontractor to commence work on his subcontract until the same insurance has been obtained by the subcontractor and approved by the Owner. Each and every contractor and subcontractor shall maintain all insurance required under paragraphs (1) and (2) of this section for not less than one year after completion of this contract.
- C. Each Contractor shall file with the Owner and Architect, a Certificate of Insurance. Any certificate submitted and found to be altered or incomplete will be returned as unsatisfactory.
- D. If requested by the Owner, Contractor shall furnish the Owner with true copies of each policy required of him or his subcontractors. Said policies will not be canceled or materially altered, except after fifteen (15) days advance written notice to the Owner and Architect, mailed to the addresses indicated herein.
- E. Insurance under this section, as a minimum, shall include the following coverages:
  1. Workman's Compensation and Employer's Liability Insurance: Workman's Compensation and Occupational Disease Insurance of statutory limits as provided by the state in which his contract is performed and Employers' Liability Insurance at a limit of not less than \$100,000.00 for all damages arising from each accident or occupational disease.
  2. Comprehensive General Liability Insurance covering:
    - a. Operations- Premises Liability:

Including, but not limited to, Bodily Injury, including death at any time resulting therefrom, to any person or Property Damage resulting from execution of the work provided for in this contract, or due to or arising in any manner from any act of omission or negligence of the Contractor and any Subcontractor, their respective employees or agents.

b. Contractor's Protective Liability:

Including, but not limited to, Bodily Injury, including death at any time, resulting therefrom to any person, or Property Damage arising from acts or omissions of any subcontractor, their employees or agents.

c. Products-- Completed Operation Liability:

Including, but not limited to, Bodily Injury, including death at any time, resulting therefrom to any person, or Property Damage because of goods, products, materials or equipment used or installed under this contract, or because of completed operation, which may become evident within one year after acceptance of the building, including damage to the building or its contents.

d. Contractual Liability:

Each and every policy for liability insurance, carried by each Contractor and Subcontractor, as required by this section shall specifically include Contractual Liability coverage with respect to Section F of this Division.

e. Special Requirements:

The insurance required under Paragraph (2) of this Section shall specifically include the following special hazards:

Property Damage caused by conditions otherwise subject to exclusions "x, c, u," Explosion, Collapse or Underground Damage.

Broad Form Property Damage endorsement, which has reference to property in the "care, custody, or control" of the insured.

"Occurrence" Bodily Injury coverage in lieu of "caused by accident."

"Occurrence" Property Damage coverage in lieu of "caused by accident."

f. Limits of Liability:

The insurance under Paragraph (2) of this Section shall be written in the following limits of liability, as a minimum:

<u>Bodily injury</u>	<u>Property Damage</u>
\$1,000,000 Each Person	\$1,000,000 Each Occurrence
\$3,000,000 Each Occurrence	\$2,000,000 General Aggregate

\$500,000 Aggregate Products

\$1,000,000 Aggregate Protective

\$1,000,000 Aggregate Contractual

3. Comprehensive Automobile Liability covering:

- a. All owned, hired, or non-owned vehicles including the loading or unloading thereof.
- b. Special Requirements: The insurance required under paragraph (3) of this section shall specifically include the following special hazards:

"Occurrence" Bodily Injury in lieu of "caused by accident."

"Occurrence" Property Damage in lieu of "caused by accident."

The insurance under Paragraph (3) of this section shall be written in the following limits of liability as a minimum:

Automobile Bodily Injury

Automobile Property Damage

\$1,000,000 Each Person

\$1,000,000 Each Occurrence

\$3,000,000 Each Occurrence

\$5,000,000 Excess/Umbrella Liability

F. Hold Harmless Agreement:

1. The Contractor shall indemnify and hold harmless the Owner and the Architect and their agents and employees from and against all claims, damages, losses and expenses including attorney's fees arising out of or resulting from the performance of the work, provided that any such claim, damage, loss or expense (a) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself ) including the loss of use resulting therefrom and (b) is caused in whole or part by any negligent act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.
2. In any and all claims against the Owner or the Architect or any of their agents or employees by any employee of the Contractor, Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this Hold Harmless agreement shall not be limited in any way by any limitation on the amount payable by or for the Contractor or any Subcontractor under workman's compensation acts, disability benefit acts or other employee benefit acts.
3. The obligations of the Contractor under this Hold Harmless Agreement shall not extend to any claim, damage, loss or expense arising out of professional services

performed by the Architect, his agents, or employees, including (a) the preparation of maps, plans, opinions, reports, surveys, designs or specifications, and (b) supervisory, inspection or engineering services.

## **PART 7 - ARTICLE 11.3: PROPERTY INSURANCE (Purchased by the General Contractor)**

7.01 A. Change the first sentence of paragraph 11.3.1 to read: The contractor shall purchase....

B. Change the second sentence of Paragraph 11.3.1 to read:

11.3.1 "This insurance shall include the interests of the Owner, the Contractor, the Subcontractor and Sub-Subcontractors in the work and shall insure against the perils of fire, extended coverage, vandalism, malicious mischief and theft."

C. Add the following subparagraph:

"11.3.1.1 If by the terms of this insurance any mandatory deductibles are required, or if the Owner should elect to increase the mandatory deductible amounts or purchase this insurance with voluntary deductible amounts, the Owner shall be responsible for payment of the amount of the deductible in the event of a paid claim."

11.3.6 Revise a portion on the first sentence in Subparagraph to read as follows: "...and

(2) the Architect, his consultants, and separation contractors, if any..."

D. Add the following Article to the General Conditions of the Contract for Construction:

## **PART 8 - ARTICLE 15: EQUAL OPPORTUNITY**

8.01 15.1 Employment Policies

15.1.1 The Contractor and all Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin or age. The Contractor shall take affirmative action to insure that applicants are employed, and that employees are treated during employment without regard to their race, religion, color, sex, national origin or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates or pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.

15.1.2 The Contractor and all Subcontractors shall, in all solicitations or advertisements for employees placed by them or on their behalf, state that all qualified applicants will

receive consideration for employment without regard to race, religion, color, sect, national origin or age.

#### **PART 9 - ARTICLE 16: CHARACTER OF WORKERS, METHODS, AND EQUIPMENT**

- 161 The Contractor shall, at all times, employ sufficient and equipment for prosecuting the work to full completion in the manner and time required by the contract, drawings, and specifications. Suitable number of foremen and supervisors shall be available on the job to insure proper prosecution and coordination of the work. All workers shall have sufficient skill and experience to perform properly the work assigned to them. Workers engaged in special work or skilled work shall have sufficient experience in such work and in the operation of the equipment required to perform the work satisfactorily.
- 162 Any person employed by the Contractor or by any subcontractor who, in the opinion of the Owner and Architect, does not perform his work in a proper and skillful manner or is intemperate or disorderly shall, at the written request of the Architect, be removed forthwith by the Contractor or Subcontractor employing such person, and shall not be employed again in any portion of the work.
- 163 Should the Contractor fail to remove such person or persons or fail to furnish suitable and sufficient personnel for the proper prosecution of the work, the Architect may suspend the work by written notice until compliance with such orders.
- 164 After the beginning of work on the site, the Contractor may not remove his Superintendent from the project without the prior written approval of the Owner.

END OF SECTION

**Section 00815 - Supplemental General Conditions**  
**Part Two**

- 1) General Contractors and Sub-contractors are hereby notified that they are encouraged, to the greatest extent practicable, to purchase American-made equipment and products with funding provided under this Award.

End of Section

## **SECTION 01010 - SUMMARY OF WORK**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY OF WORK**

- A. Work covers construction of the “Snapple” Building located at 220 Airport Drive, London, Laurel County, Kentucky.
- B. Related requirements specified elsewhere:
  - 1. Submittals- Section 01300
  - 2. Temporary Facilities- Section 01500
  - 3. Project Closeout - Section 01700
- C. Contractor's Duties:
  - 1. Except as specifically noted, provide and pay for:
    - a. Labor, materials, tools, and equipment.
    - b. Permits.
    - c. Fees.
    - d. Licenses.
    - e. Taxes.
  - 2. Give required notices.
  - 3. Comply with codes, ordinances, rules, regulations, orders, and other legal requirements of public authorities which bear on performance of work.
  - 4. Promptly submit written notice to Architect of observed variance of Contract Documents from legal requirements.
  - 5. Contractor shall verify all grades, lines, levels, and dimensions indicated on the drawings and shall report any inconsistencies before commencing work.
  - 6. Each Sub Contractor shall be responsible for the layout for their specific phase of work.

#### **1.02 CONTRACT (OWNER AND GENERAL CONTRACTOR)**

- A. Construction work shall be under a single lump sum contract, which shall include all



general construction, steel, concrete, mechanical, electrical, plumbing and site work, etc.

### 1.03 CONTRACTORS' USE OF PREMISES

- A. Confine operations at site to areas permitted by:
  - 1. Law.
  - 2. Ordinances.
  - 3. Permits.
  - 4. Contract Documents.
  - 5. Owner.
- B. Do not unreasonably encumber site with materials or equipment.
- C. Do not load structure with weight that will endanger structure.
- D. Assume full responsibility for protection and safekeeping of products stored on site.
- E. Move any stored products which interfere with operations of the Owner.

END OF SECTION

## **SECTION 01027 - APPLICATIONS FOR PAYMENT REQUIREMENTS OF CONTRACTOR**

### **PART 1 - GENERAL**

#### **1.01 SECTION INCLUDES:**

- A. Procedures of Contractor for preparation and submittal of applications for payment.

#### **1.02 RELATED SECTIONS**

- A. Document 00500 - Agreement: Contract Sum amounts of progress payments and retainages.
- B. Section 00800 - Supplementary Conditions: Progress payments and final payment.
- C. Section 01028 - Modification Requirements: Procedures for changes to the Work.
- D. Section 01300 - Submittals: Submittal procedures.
- E. Section 01700 - Contract Closeout - Final Payment

#### **1.03 FORMAT**

- A. For each item, provide a column for listing each of the following:
  - 1. Item Number.
  - 2. Description of Work.
  - 3. Scheduled Values.
  - 4. Previous Applications.
  - 5. Work in Place and Stored Materials under this Application.
  - 6. Authorized Change Orders.
  - 7. Total Completed and Stored to Date of Application.
  - 8. Percentage of Completion.
  - 9. Balance to Finish.
  - 10. Retainage.

#### **1.04 PREPARATION OF APPLICATIONS**

- A. Present required information in typewritten form on specified AIA Documents.
- B. Execute certification by signature of authorized officer.
- C. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored Products.

- D. List each authorized Change Order as an extension on AIA G703 Continuation Sheet, listing Change Order number and dollar amount as for an original item of Work.
- E. Prepare Application for Final Payment as specified in Section 01700.
- F. Submit partial release of liens waiver for all work completed to date with each payment application.
- G. Submit up-to-date (revised) construction schedule.

#### 1.05 SUBMITTAL PROCEDURES

- A. Submit three copies of each Application for Payment.
- B. Submit an updated construction schedule with each Application for Payment.
- C. Payment Period: Submit at intervals stipulated in the Agreement.
- D. Submit with transmittal letter as specified for Submittals in Section 01300.

#### 1.06 DETAILED COST BREAKDOWN

- A. Upon award of contract, Contractor will have seven working days to generate a finalized cost breakdown of the project.

#### 1.07 SUBSTANTIATING DATA

- A. When Architect/Engineer requires substantiating information, Contractor shall submit data justifying dollar amounts in question.
- B. Provide one copy of data with cover letter for each copy of submittal. Show application number and date, and line item by number and description.

### **PART 2 - PRODUCTS**

Not Applicable.

### **PART 3 - EXECUTION**

Not Applicable.

END OF SECTION

## **SECTION 01028 - MODIFICATION REQUIREMENTS REQUIREMENTS OF CONTRACTOR**

### **PART 1 - GENERAL**

#### **1.01 SECTION INCLUDES:**

- A. Submittals.
- B. Documentation of change in Contract Sum and Contract Time.
- C. Change procedures.
- D. Construction Change Directive.
- E. Stipulated Sum change order.
- F. Execution of change orders.
- G. Correlation of Contractor submittals.

#### **1.02 SUBMITTALS**

- A. Submit name of the individual authorized to receive change documents, and be responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.
- B. Change Order Forms: AIA G701 Change Order.

#### **1.03 DOCUMENTATION OF CHANGE IN CONTRACT SUM AND CONTRACT TIME**

- A. Maintain detailed records of work performed. Provide full information required for evaluation of proposed changes, and to substantiate costs of changes in the Work.
- B. Document each quotation for a change in cost or time with sufficient data to allow evaluation of the quotation.
- C. Provide additional data to support computations:
  - 1. Quantities of products, labor, and equipment.
  - 2. Taxes, insurance, and bonds.
  - 3. Overhead and profit.
  - 4. Justification for any change in Contract Time.
  - 5. Credit for deletions from Contract, similarly documented.
- D. Support each claim for additional costs, and for work performed, with additional information:
  - 1. Origin and date of claim.
  - 2. Dates and times work was performed, and by whom.
  - 3. Time records and wage rates paid.
  - 4. Invoices and receipts for products, equipment, and subcontracts, similarly documented.

#### 1.04 CHANGE PROCEDURES

- A. The Architect/Engineer will advise of minor changes in the Work not involving an adjustment to Contract Sum/Price or Contract Time as authorized by AIA A201, 1987 Edition, Paragraph 7.4 by issuing supplemental instructions on AIA Form G710.
- B. The Architect/Engineer may issue a Proposal Request which includes a detailed description of a proposed change with supplementary or revised Drawings and specifications, a change in Contract Time for executing the change. Contractor will prepare and submit an estimate within seven (7) days.

#### 1.05 CONSTRUCTION CHANGE DIRECTIVE

- A. Architect/Engineer may issue a document, signed by the Owner, instructing the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
- B. The document will describe changes in the Work, and will designate method of determining any change in Contract Sum or Contract Time.
- C. Contractor shall include in his costs any and all costs associated with contract documents modification required by the Architect/Engineer as a part of modifications.
- D. Promptly execute the change in Work.

#### 1.06 STIPULATED SUM CHANGE ORDER

- A. Based on Proposal Request and Contractor's fixed price quotation.

#### 1.07 CHANGE ORDER

- A. Submit itemized account and supporting data after completion of change, within time limits indicated in the Conditions of the Contract.
- B. Architect/Engineer will determine the change allowable in Contract Sum and Contract Time as provided in the Contract Documents pending Owner approval.
- C. Maintain detailed records of work performed.
- D. Provide full information required for evaluation of proposed changes, and to substantiate costs for changes in the Work.

#### 1.08 EXECUTION OF CHANGE ORDERS

- A. Execution of Change Orders: Architect/Engineer will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.

#### 1.09 CORRELATION OF CONTRACTOR SUBMITTALS

- A. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.
- B. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
- C. Promptly enter changes in Project Record Documents.

**PART 2 - PRODUCTS**

Not Used.

**PART 3 - EXECUTION**

Not Used.

END OF SECTION

**SECTION 01039 - COORDINATION AND MEETINGS  
REQUIREMENTS OF CONTRACTOR**

**PART 1 - GENERAL**

1.01 SECTION INCLUDES

- A. Coordination and project conditions.
- B. Progress meetings.

Given the size of the project, meetings will be kept to a minimum.

END OF SECTION

## **SECTION 01041 - PROJECT COORDINATION**

### **PART 1 - GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Project coordination.
- B. Construction mobilization.
- C. Schedules.
- D. Submittals.
- E. Coordination drawings.
- F. Closeout procedures.

#### **1.02 RELATED SECTIONS**

- A. Section 00800 - Supplementary Conditions
- B. Section 01011 - Summary of Project: Work sequence.
- C. Section 01039 - Coordination and Meetings: Progress meetings.
- D. Section 01700 - Contract Closeout: Contract Closeout Procedures.

#### **1.03 CONSTRUCTION MOBILIZATION**

- A. Comply with procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.
- B. Comply with instructions for use of temporary utilities and construction facilities.
- C. Coordinate field engineering and layout work.

#### **1.04 SCHEDULES**

- A. Submit preliminary progress schedule in accordance with Section 01310.
- B. After review, revise and resubmit schedule to comply with revised Project schedule. Submit revised or up-to-date schedule with each application for payment.
- C. During progress of work revise and resubmit as directed.

#### **1.05 SUBMITTALS**



- A. Provide submittals for review and transmittal to Architect/Engineer.
- B. Submit applications for payment on AIA G702 forms for review, and for transmittal to Architect/Engineer.
- C. Submit requests for interpretation of Contract Documents, and obtain instructions through the Architect/Engineer.
- D. Process requests for substitutions, and change orders.
- E. Deliver closeout submittals for review and preliminary inspection reports, for transmittal to Architect/Engineer.

#### 1.06 COORDINATION DRAWINGS

- A. Provide information required by Architect/Engineer for preparation of coordination drawings.
- B. Review drawings prior to submission to Architect/Engineer.

#### 1.07 CLOSEOUT PROCEDURES

- A. Notify Architect/Engineer when Work is considered ready for Substantial Completion.
- B. Comply with Architect/Engineer's instructions to correct items of work listed in executed Certificates of Substantial Completion and for access to Owner occupied areas.
- C. Notify Architect/Engineer when Work is considered finally complete.
- D. Comply with instructions for completion of items of Work determined by Architect/Engineer's final inspection.

### **PART 2 - PRODUCTS**

Not Used.

### **PART 3 - EXECUTION**

Not Used.

END OF SECTION

## **SECTION 01045 - CUTTING AND PATCHING REQUIREMENTS OF CONTRACTOR**

### **PART 1 - GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Requirements and limitations for cutting and patching of Work, including:
  - 1. Cutting, fitting, or patching that may be required to complete the work or make its several parts fit together properly.
  - 2. Uncovering work to provide for installation of ill-timed work.
  - 3. Removing and replacing defective work.
  - 4. Removing and replacing work not conforming to requirements of the Contract Documents.
  - 5. General Contractor shall be responsible for cutting and patching of construction as required to facilitate work, including work by his mechanical and electrical subcontractors. He shall assign proper trades normally associated with the materials being cut and patched to perform work.

#### **1.02 RELATED SECTIONS**

- A. Section 01010 - Summary of Work.
- B. Section 01300 - Submittals.
- C. Section 01620 - Product Delivery, Storage and Handling.
- D. Individual Product Specification Sections:
  - 1. Cutting and patching incidental to work of the section.
  - 2. Advance notification to other sections of openings required in work of those sections.

#### **1.03 SUBMITTALS**

- A. Submit written request in advance of cutting or alteration which affects:
  - 1. Structural integrity of any element of Project.
  - 2. Integrity of weather exposed or moisture resistant element.
  - 3. Efficiency, maintenance, or safety of any operational element.
  - 4. Visual qualities of sight exposed elements.
  - 5. Work of Owner or separate contractor.

B. Include in request:

1. Identification of Project.
2. Location and description of affected Work.
3. Necessity for cutting or alteration.
4. Description of proposed Work and Products to be used.
5. Alternatives to cutting and patching.
6. Effect on work of Owner or separate contractor.
7. Written permission of affected separate contractor.
8. Date and time work will be executed.

## **PART 2 - PRODUCTS**

### **2.01 MATERIALS**

- A. Primary Products: Those required for original installation.
- B. Product Substitution: For any proposed change in materials, submit request for substitution.

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

- A. Examine existing conditions prior to commencing Work, including elements subject to damage or movement during cutting and patching.
- B. After uncovering existing Work, assess conditions affecting performance of work.
- C. Beginning of cutting or patching means acceptance of existing conditions.

### **3.02 PREPARATION**

- A. Provide temporary supports to ensure structural integrity of the Work. Provide devices and methods to protect other portions of Project from damage.
- B. Provide protection from elements for areas which may be exposed by uncovering work.
- C. Maintain excavations free of water.

### 3.03 CUTTING

- A. Execute cutting and fitting including excavation and fill to complete the Work.
- B. Uncover work to install improperly sequenced work.
- C. Remove and replace defective or non-conforming work.
- D. Provide openings in the Work for penetration of mechanical and electrical work.
- E. Employ skilled and experienced installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
- F. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.

### 3.04 PATCHING

- A. Execute patching to complement adjacent Work.
- B. Fit Products together to integrate with other Work.
- C. Execute work by methods to avoid damage to other Work, and which will provide appropriate surfaces to receive patching and finishing.
- D. Employ original installer to perform patching for weather exposed and moisture resistant elements, and sight-exposed surfaces.
- E. Restore work with new products in accordance with requirements of Contract Documents.
- F. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- G. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire resistant material to full thickness of the penetrated element.
- H. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit. When possible, do not cut-and-patch work which is exposed in occupied spaces of building, in a manner resulting in reductions of visual qualities or resulting substantial evidence of cut-and-patch work, both as judged solely by Architect. Remove and replace work judged by Architect to be cut-and-patched in a visually unsatisfactory or otherwise objectionable manner.

END OF SECTION

## **SECTION 01090 - REFERENCE STANDARDS**

### **PART 1 - GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Quality assurance.

#### **1.02 QUALITY ASSURANCE**

- A. For Products or workmanship specified by association, trade, or other consensus standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard by date of issue current on date of Contract Documents.
- C. Should specified reference standards conflict with Contract Documents, request clarification from the Architect/Engineer before proceeding.
- D. Neither the contractual relationship, duties, and responsibilities of the parties in Contract nor those of the Architect/Engineer shall be altered by the Contract Documents by mention or inference otherwise in any reference document.

### **PART 2 - PRODUCTS**

Not Used.

### **PART 3 - EXECUTION**

Not Used.

END OF SECTION

## **SECTION 01300 - SUBMITTALS**

### **PART 1 - GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Submittal procedures.
- B. Shop Drawings.
- C. Test reports.
- D. Certificates.
- E. Erection drawings.

#### **1.02 REFERENCES**

- A. AGC (Associated General Contractors of America) publication "The Use of CPM in Construction - A Manual for General Contractors and the Construction Industry".

#### **1.03 SUBMITTAL PROCEDURES FOR SHOP DRAWINGS**

A. All shop drawings must be reviewed by the General Contractor before submitting them to the Architect.

B. Transmit each submittal with accepted form, containing the following:

- 1. Date
- 2. Project title
- 3. Contractor's name and address
- 4. Notification of any deviations from the contract documents.
- 5. Identify project as "London-Laurel County Industrial Spec Building #4"
- 6. Other pertinent data as required.

C. Identify Project, Contractor, Subcontractor, Manufacturer or supplier; pertinent drawing and detail number, and specification section number, as appropriate.

- 1. Provide identification of product or material size, type, finish and color as appropriate.
- 2. Field dimensions, clearly identified as such.
- 3. All working and erection dimensions, views, as required to indicate fully all construction and fabrication methods, profiles and materials.

D. On all shop drawings apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.

#### 1.04 CERTIFICATES

- A. When specified in individual specifications sections, submit certification by the manufacturer, installation/application/subcontractor, or the Contractor to Architect/Engineer, in quantities specified for Product Data.
- B. Indicate material or Product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
- C. Certificates may be recent or previous test results on material or Product, but must be acceptable to Architect/Engineer.

#### **PART 2 - PRODUCTS**

Not used.

#### **PART 3 - EXECUTION**

Not used.

END OF SECTION

## **SECTION 01310 - CONSTRUCTION PROGRESS SCHEDULES**

### **PART 1 - GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Format.
- B. Content.
- C. Revisions to schedules.
- D. Submittals.

#### **1.02 RELATED SECTIONS**

- A. Section 01011 - Summary of Work.
- B. Section 01027 - Applications for Payment: Application for payment.
- C. Section 01300 - Submittals: Shop drawings.

#### **1.03 REFERENCES**

- A. AGC (Associated General Contractors of America) publication "The Use of CPM in Construction - A Manual for General Contractors and the Construction Industry".

#### **1.04 FORMAT**

- A. Prepare schedules starting with Notice to Proceed date through substantial completion, as a horizontal bar chart or Gantt chart with separate bar for each major portion of Work or operation, identifying first work day of each week.
- B. Sequence of Listings: The chronological order of the start of each item of Work.
- C. Scale and Spacing: To provide space for notations and revisions.
- D. Sheet Size: Maximum 30" x 42" OR multiples of 8½" x 11".

#### **1.05 CONTENT**

- A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.
- B. Identify each item by specification section number.
- C. Identify work of separate stages and other logically grouped activities.
- D. Provide sub-schedules for each stage of Work.
- E. Provide sub-schedules to define critical portions of the entire schedule.
- F. Include conferences and progress meetings in schedule.
- G. Show accumulated percentage of completion of each item, and total percentage of Work completed, to coincide with schedule of values in each application for payment.
- H. Provide separate schedule of submittal dates for shop drawings, product data, and



samples, including Owner furnished products and dates reviewed submittals will be required from Architect/Engineer. Indicate decision dates for selection of finishes.

- I. Include scheduling for fabrication of structural steel.
- J. Include scheduling of erection sequence of building structural steel, precast walls and delivery to site.
- K. Include scheduling of erection sequence of building precast walls and delivery to site.

#### 1.06 REVISIONS TO SCHEDULES

- A. Indicate progress of each activity to date of submittal, and projected completion date of each activity.
- B. Identify activities modified since previous submittal, major changes in scope, and other identifiable changes.
- C. Provide narrative report to define problem areas, anticipated delays, and impact on Schedule. Report corrective action taken, or proposed, and its effect including the effect of changes on schedules of separate contractors.

#### 1.07 SUBMITTALS

- A. Submit initial schedules within 15 days after date of Owner-Contractor Agreement. After review, resubmit required revised data within seven days.
- B. Submit revised Progress Schedules with each Application for Payment.
- C. Submit the number of opaque reproductions which Contractor requires, plus two copies which will be retained by Architect/Engineer.

#### 1.08 DISTRIBUTION

- A. Distribute copies of reviewed schedules to Project site file, Subcontractors, suppliers, and other concerned parties.
- B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

### **PART 2 - PRODUCTS**

Not Used.

### **PART 3 - EXECUTION**

Not Used.

END OF SECTION

## **SECTION 01620 - PRODUCT DELIVERY, STORAGE & PROTECTION**

### **PART 1 - GENERAL**

#### **1.01 APPLICABILITY**

- A. This Section applies to all products furnished under this Agreement. Shipments of equipment or materials to be used by the Contractor or its subcontractors shall be delivered to the site only during regular working hours. All shipping papers and shipments shall be addressed and consigned to the Contractor giving the name of the Project with address. Under no circumstances will Owner accept shipments directed to it or the Architect/Engineer unless otherwise specified.

#### **1.02 DELIVERY**

- A. Products shall not be delivered to the Owner or the Architect/Engineer.
- B. Products shall not be delivered to the project site until related shop drawings have been reviewed by the Architect/Engineer.
- C. Products shall not be delivered to the project site until appropriate storage facilities are in place (on-site storage space is very limited).
- D. Products shall be delivered to the site in manufacturer's original, unopened, labeled containers.
- E. The Contractor shall not drop, roll or skid products off delivery vehicles. Hand carry or use suitable materials-handling equipment.

#### **1.03 STORAGE AND PROTECTION**

- A. General:
  - 1. The Contractor shall store and protect products in accordance with the manufacturer's recommendations and the requirements specified herein. No on-site existing storage facilities are available for use by the Contractor. All on-site facilities for storage shall be furnished by the Contractor.
  - 2. The Contractor shall not block or restrict the use of public right-of way, access roads or private property with stored materials.
  - 3. The Contractor shall not store products where they will interfere with operations of the Owner.
  - 4. The Contractor shall protect all products from damage or deterioration by weather.
  - 5. The Contractor shall not store any products directly on the ground.

6. The Contractor shall not store any products in drainage ditches or areas where water may stand.
7. The Contractor shall label containers to identify materials inside using the terminology found in these Specifications.

B. Uncovered Storage:

1. The following types of materials may be stored out of doors without cover:
  - a. Masonry units
  - b. Reinforcing steel
  - c. Piping
  - d. Precast concrete items
  - e. Castings
2. The above mentioned materials shall be stored on wood blocking.

C. Fully Protected Storage:

1. The Contractor shall store all products not named above in buildings or trailers which have a concrete or wooden floor, a roof; and fully enclosed walls on all sides.
2. The Contractor shall provide heated storage space for materials which would be damaged by freezing.
3. The Contractor shall protect mechanical and electrical equipment from being contaminated by dust and dirt.
4. The Contractor shall maintain temperature and humidity at levels recommended by manufacturer(s) for electrical and electronic equipment.

END OF SECTION

## **SECTION 01700 - PROJECT CLOSEOUT REQUIREMENTS OF CONTRACTOR**

### **PART 1 - GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Closeout procedures.
- B. Final cleaning.
- C. Adjusting.
- D. Project record documents.
- E. Operation and maintenance data.
- F. Spare parts and maintenance products.
- G. Warranties and bonds.

#### **1.02 RELATED SECTIONS**

- A. Section 01650 - Starting of Systems: System start-up, testing, adjusting, and balancing.

#### **1.03 CLOSEOUT PROCEDURES**

- A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for Architect/Engineer's review.
- B. Provide submittals to Architect/Engineer that are required by governing or other authorities.
- C. Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.
- D. Deliver all close-out documents to the Architect within forty-five (45) days of the date of Substantial Completion. Indemnify the Architect for failure to perform this requirement including legal fees incurred by the Architect in enforcing this requirement. Failure to deliver all required close-out documents to the Architect within forty-five (45) days from sign-off of AIA Document G704, "Certificate of Substantial Completion," shall invoke costs of the Architect's services to be borne by the Contractor.
- E. Submit Certificate of Substantial Completion: AIA Document G704, 1992 Edition.
- F. Submit Contractor's Affidavit of Payment of Debts and Claims: AIA Document G706, 1994 Edition.
- G. Submit Contractor's Affidavit of Release of Liens: AIA Document G706A, 1994 Edition.
- H. Submit certification prior to submission of final application for payment attesting that certain products meet Factory Mutual (FM) approval.

#### **1.04 FINAL CLEANING**

- A. Execute final cleaning prior to final project assessment. Use experienced workmen or professional cleaners for final cleaning.
- B. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
- C. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- D. Replace filters of operating equipment.
- E. Clean debris from roofs, gutters, downspouts, and drainage systems.
- F. Clean site; sweep paved areas, rake clean landscaped surfaces.
- G. Remove waste and surplus materials, rubbish, and construction facilities from the site weekly (or more often as required by accumulation). Remove waste materials, rubbish and debris from the site and legally dispose of at public or private dumping areas off-site at least once a week. Site to be approved by Owner.
- H. Each subcontractor has the responsibility for protecting equipment and finishes at the job site from damages resulting from work under his control, for all cleaning required as a result of his failure to protect equipment and finishes, and for removal of protective covers.
- I. Safety Standards: Maintain project in accordance with the OSHA safety standards, as stipulated under the Occupational Safety and Health Act of 1970 and printed May 29, 1971 in the Federal Register.
- J. Fire Protection: Store volatile waste in covered metal containers and remove from premises daily.
- K. Pollution Control: Conduct cleanup and disposal operations to comply with local ordinances and anti-pollution laws.
  - 1. Disposal of volatile fluid wastes (such as mineral spirits, oil, or paint thinner) in storm or sanitary sewer systems or into streams or waterways is not permitted.
- L. Vacuum clean interior building areas when ready to receive finish painting and continue vacuum cleaning on an as-needed basis until building is ready for acceptance or occupancy.
- M. Repair, patch and touch-up marred surfaces to match adjacent finishes. Coordinate with requirements specified under the various sections of these specifications.
- N. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly-painted surfaces.

#### 1.05 ADJUSTING

- A. Adjust operating Products and equipment to ensure smooth and unhindered operation.

#### 1.06 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents in clean, dry, legible condition; record actual revisions to the Work:
  - 1. Drawings
  - 2. Specifications
  - 3. Addenda
  - 4. Change Orders and other modifications to the Contract.
  - 5. Reviewed Shop Drawings, Product Data, and Samples.
  - 6. Manufacturer's instruction for assembly, installation, adjusting, maintenance and operation.

- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress. Label each document "Project Record."
- E. Specifications: Legibly mark and record at each Product section description of actual Products installed, including the following:
  - 1. Manufacturer's name and product model and number.
  - 2. Product substitutions or alternates utilized.
  - 3. Changes made by Addenda and modifications.
- F. Record Drawings: Legibly mark each item to record actual construction including:
  - 1. Measured depths of foundations in relation to finish first floor datum.
  - 2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
  - 3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
  - 4. Field changes of dimension and detail.
  - 5. Details not on original Contract drawings.
  - 6. Review applied changes to C.A.D. drawings.
- G. Submit documents to Architect/Engineer prior to claim for final Application for Payment.
  - 1. The Contractor shall submit to the Architect one set of "Record" drawings which accurately reflect the actual installation of any and all materials, piping, conduit, etc., which were not installed exactly in accordance with the contract drawings.
  - 2. Contractor shall submit to the Architect two (2) (corrected) final record copies of shop drawings marked "for job use" which reflect all changes required in previous submittals including these marked "Approved as Noted," or similarly revised by the Engineer.

#### 1.07 OPERATION AND MAINTENANCE DATA

- A. Submit data bound in 8½ x 11 inch (A4) text pages, three D side ring binders with durable plastic covers.
- B. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS."
- C. Internally subdivide the binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.
- D. Contents: Prepare a Table of Contents for each volume, with each Product or system description identified, typed on white paper, in three parts as follows:
  - 1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect/ Engineer, Contractor, Subcontractors, and major equipment suppliers.
  - 2. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers. Identify the following:
    - a. Significant design criteria.
    - b. List of equipment.
    - c. Parts list for each component.
    - d. Operating instructions.
    - e. Maintenance instructions for equipment and systems.
    - f. Maintenance instructions for special finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.
  - 3. Part 3: Project documents and certificates, including the following:
    - a. Shop drawings and product data.
    - b. Air and water balance reports.
    - c. Certificates.

- d. Originals of warranties.
- E. Submit 1 draft copy of completed volumes 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with Architect/Engineer comments. Revise content of all document sets as required prior to final submission.
- F. Submit three (3) sets of revised final volumes to Architect/Engineer within thirty (30) days of Architect/Engineer review.

#### 1.08 SPARE PARTS AND MAINTENANCE PRODUCTS

- A. Provide spare parts, maintenance, and extra Products in quantities specified in individual specification sections.
- B. Deliver to Project site and place in location as directed by Owner; obtain receipt prior to final payment.

#### 1.09 WARRANTIES AND BONDS

- A. Provide notarized copies.
- B. Execute and assemble transferable warranty documents from Subcontractors, suppliers, and manufacturers.
- C. Provide Table of Contents and assemble in three D side ring binder with durable plastic cover.
- D. Submit one (1) original and two (2) copies prior to final Application for Payment. All such documents shall indicate the name and location of the project and the name of the purchaser.
- E. For items of Work delayed beyond date of Substantial Completion, provide updated submittal within 10 days after acceptance, listing date of acceptance as start of warranty period.

### **PART 2 - PRODUCTS**

Not Used.

### **PART 3 - EXECUTION**

Not Used.

END OF SECTION

## **SECTION 13121 - PRE-ENGINEERED BUILDINGS**

### **PART 1 - GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Structural steel frame. (Not applicable)
- B. Complete roof covering system consisting of the exterior roof panels, panel attachments, sealants, mastics, trim and flashings as required.
- C. Complete wall covering system consisting of the exterior wall panels, panel attachments, sealants, mastics, trim and flashings as required for a weathertight assembly.
- D. Field seaming machine.

#### **1.02 RELATED SECTIONS**

- A. Section 03300 - Cast-in-Place Concrete: Foundations and anchor bolts. (Not Applicable)
- B. Section 09900 - Paints and Coatings: Finish painting of structural members, doors, roof curbs, etc. (Not Applicable)

#### **1.03 REFERENCES**

- A. AAMA 101 - Voluntary Specification for Aluminum and Poly (Vinyl Chloride) (PVC) Prime Windows and Glass Doors; American Architectural Manufacturers Association.
- B. ASTM A 36/ASTM A36M - Standard Specification for Carbon Structural Steel.
- C. ASTM A 307 - Standard Specification for Carbon Steel Bolts and Studs, 60 000 PSI Tensile Strength.
- D. ASTM A 325 - Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.
- E. ASTM A 529/A 529M - Standard Specification for High-Strength Carbon-Manganese Steel of Structural Quality.
- F. ASTM A 570/A 570M - Standard Specification for Steel, Sheet and Strip, Carbon, Hot-Rolled, Structural Quality.
- G. ASTM A 572/A 572M - Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Steel.
- H. ASTM A 653/A 653M - Standard Specification for Steel Sheets, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.



- I. ASTM A 792/A 792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
- J. ASTM D 635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position.
- K. ASTM D 1929 - Standard Test Method for Ignition Properties of Plastics.
- L. ASTM D 2843 - Standard Test Method for Smoke from the Burning or Decomposition of Plastics.
- M. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- N. ASTM E 774 - Standard Specification for Sealed Insulating Glass Units.
- O. SDI 100 - Recommended Specifications for Standard Steel Doors and Frames; Steel Door Institute.
- P. UL 580 - Tests For Wind Uplift Resistance of Roof Assemblies; Underwriters Laboratories Inc.

#### 1.04 DEFINITIONS

- A. Building Width: Measured from outside to outside of sidewall girts.
- B. Building Length: Measured from outside to outside of endwall girts.
- C. Building Line: Outside face of horizontal steel girt.
- D. Building Eave Height: Measured from the intersection of the top of the roof framing and the outside of the wall framing to the bottom of the sidewall column base plate.
- E. Bay Spacing: Measured from centerline to centerline of primary frames for interior bays and from centerline of the first interior frame to outside of endwall girts for endbays.
- F. Roof Pitch: The ratio of the vertical rise to the horizontal run.

#### 1.05 MANUFACTURERS

- A. Varco Pruden
- B. American Buildings Company
- C. A & S Building Systems, Inc.
- D. Approved equals.

#### 1.06 DESIGN REQUIREMENTS

- A. Design structural systems according to professionally recognized methods and standards and legally adopted building codes.
- B. Design under supervision of professional engineer licensed in Kentucky.
- C. Manufacturer must be certified by AISC in the Metal Building category.
- D. Supplier must be a primary manufacturer of frames, secondary steel, roof and wall sheeting and trim.
- E. Design Loads: See Structural Sheet for additional design load criteria information
  - 1. Applicable Building Code: KBC latest edition.
  - 2. Roof Live Load: 20 psf, non-reducible.
  - 3. Roof Snow Load: 15 psf.
  - 4. Ground Snow Load: 20 psf.
  - 5. Roof Wind Load: Calculate in accordance with applicable code, using 80 mph. Basic Wind Speed, Exposure Category C.
  - 6. Collateral Loads: 8 psf.
    - a. Seismic Loads: Calculate and apply seismic loads in accordance with the requirements of applicable building code based on the following project specific values as applicable:
      - 1. Seismic Zone: 1
  - 7. Dead loads, including the weight of all indicated permanent construction.
- F. Design wall and roof panel system including secondary members to withstand specified loads with deflection of  $L/240$  of span, maximum.
- G. Anchor Bolts: Furnish design criteria for anchor bolts furnished by others, to resist the loads induced by the design loads on the structure.

#### 1.07 SUBMITTALS

- A. Design Data: Provide detailed design criteria and calculations.
- B. Certification: Manufacturer certification that the building conforms to the contract documents and manufacturer's standard design procedures.
- C. Shop Drawings: Show building layout, primary and secondary framing member sizes and locations, cross-sections, and product and connection details.
- D. Product Data: Information on manufactured products to be incorporated into the project.
- E. Color Charts: For selection of colors.
- F. Anchor Bolt Installation Drawings: Layouts with bolt diameters.

G. Specimen Warranty.

## 1.08 WARRANTY

A. Provide manufacturer's standard warranty for:

Materials and workmanship: 1 year.

1. Panel finish: 20 years.

2. Weathertightness: 20 years.

## PART 2 - PRODUCTS

### 2.01 METAL MATERIALS

A. Select materials and material yield strengths based on building design requirements; use the following unless required otherwise.

B. Structural Steel Plate, Bar, Sheet, and Strip for Use in Bolted and Welded Constructions: ASTM A 572/A 572M/A570, A 529/A 529M or A 36, with minimum yield strength of 50,000 psi (345 Mpa).

C. Structural Steel Material for Use in Roll Formed or Press Broken Secondary Structural Members: ASTM A 570/A 570M, or A607 with minimum yield strength of 55,000 psi (380 Mpa).

D. Galvanized Steel Sheet for Roll Formed or Press Broken Roof and Wall Coverings, Trim and Flashing: ASTM A 653/A 653M, with minimum yield strength of 50,000 psi (345 Mpa).

E. Roof. Galvalume Steel Sheet Used in Roll Formed or Press Broken Roof Covering: Aluminum-zinc alloy-coated steel sheet, ASTM A 792/A 792M, with minimum yield strength of 50,000 psi (345 MPa); nominal coating weight of 0.5 oz per sq. ft (152 kg/sq m) both sides, equivalent to an approximate coating thickness of 0.0018 inch (0.05 mm) both sides.

F. Hot Rolled Steel Shapes: W, M and S shapes, angles, rods, channels and other shapes; ASTM A 572/A 572M or ASTM A 36/A 36M as applicable; with minimum yield strengths required for the design.

G. Structural Bolts and Nuts Used with Primary Framing: High strength, ASTM A 325.

H. Bolts and Nuts Used with Secondary Framing Members: ASTM A 307.

I. Shop Coat: Manufacturer's standard rust inhibitive primer paint; color, gray.

J. Walls. SP Pre-Painted Finish: 0.8 mil baked on silicone polyester exterior surface.

1. Color: As selected from manufacturer's full line.

## 2.02 FRAMING COMPONENTS

- A. Primary Framing: Rigid Frame (RF Series) solid web framing consisting of tapered rafters rigidly connected to tapered columns. Provide a clear span that supports the loads at bay spacings indicated.
- B. Structure: Work shall include the following:
  - 1. The main building 300' x 350', 105,000 sq.ft., structure will be a modular series with a multi-span/rigid frame tapered exterior columns and interior columns. Column frame (bay) spacing shall be 50'. Interior column spacing shall be 75'.
  - 2. Eave height at side walls shall be 30'.
  - 3. Roof slope 1" per foot.
- C. Front office Entry. See structural sheets.
- D. Endwall Framing: Corner posts, endposts and rake beams.
- E. Transbay Members: Open web, parallel chord, secondary joists; simple span, utilizing materials, sizes and yield strength as required.
- F. Girts: Zee- or Cee-shaped; depth as required, with minimum yield strength of 55,000 psi (345 MPa); simple span or continuous span as required for design.
- G. Wind Bracing: Diagonal bracing in accordance with manufacturer's standard design practices; utilizing rods, angles, and other members, with minimum yield strengths as required for design.
- H. Primary Frame Flange Bracing: Attached from girts to the primary framing, minimum yield strength as required for design.
- I. Base Angles: 2 inch x 3 inch x 0.059 inch (50 mm x 75 mm x 1.5 mm) steel angles, with minimum yield strength of 55,000 psi (38 Mpa), anchored to the floor slab or grade beam with power driven fasteners or equivalent at a maximum spacing of 2 feet (1220 mm) on center and not more than 6 inches (150 mm) from the end of any angle member.
- J. Door Headers and Jambs: Zee- or Cee-shaped; depth as required; with minimum yield strength of 55,000 psi (380 Mpa).
- K. Sag Angles and Bridging: Steel angles, with minimum yield strength of 36,000 psi (250 Mpa).

- L. Fabrication: Fabricate according to manufacturer's standard practice.
  - 1. Fabricate structural members made of welded plate sections by jointing the flanges and webs by continuous automatic submerged arc welding process.
  - 2. All welding operators and processes shall be qualified in accordance with the American Welding Society "Structural Welding Code", AWS D1.1.
  - 3. Field connections. Prepare members for bolted field connections by making punched, drilled, or reamed holes in the shop.
- M. Component Identification: Mark all fabricated parts, either individually or by lot or group, using an identification marking corresponding to the marking shown on the shop drawings, using a method that remains visible after shop painting.
- N. Shop Coating: Finish all structural steel members using one coat of manufacturer's standard shop coat, after cleaning of oil, dirt, loose scale and foreign matter.
- O. Package building components for shipping by common carrier.

## 2.03 ROOF AND WALL PANEL COMPONENTS

- A. Roof Panels: SSR Standing Seam Roof Panels; 24 inches (610 mm) wide net coverage, with 3 inches (75 mm) high major ribs formed at the panel side laps, formed for field seaming using electrically operated seaming machine.
  - 1. Side Joints: Factory applied sealant for field seaming.
  - 2. Material: Galvalume steel (finish only), Main Building; Front Office, KXL finish.
  - 3. Thickness: 24 gage (0.61 mm).
  - 4. Side laps: Two factory-formed interlocking ribs, with one weather sealed joint, mechanically field-seamed into place to form a double-fold 360-degree seam.
  - 5. Length: Continuous from eave to ridge up to 41 feet (12.5 m) in length.
  - 6. Endlaps, Where Required: 7 inches (178 mm) wide, located at a support member.
  - 7. Panel-to-roof purlin structural attachments: SSR clips with movable tabs which interlock with seamed SSR panel ribs and provide for 1-1/2 inch (37 mm) of panel movement in either direction from center of clip to compensate for thermal effects.
  - 8. The SSR Roof System shall be tested and certified by Factory Mutual to meet the following tests:
    - a. FM 1-60  
The design of the SSR Roof for this project shall meet FM 1-60 Factory Mutual design.
  - 9. The SSR Roof System shall be tested and certified to meet Underwriters Laboratory UL 90 wind uplift rating. The UL 90 is a requirement for this project.
  - 10. Panels shall have been tested in accordance to ASTM E-1592.
  - 11. Panel fastening to meet uplift requirements shall be based on tested fastener values with appropriate Safety Factors.
  - 12. Purlin strength with the SSR roof panel shall be determined and tested in accordance with AISI procedures.

- B. Ridge Assembly for High End of Slopes: SSR Ridge; draw-formed aluminum seam caps factory-attached to SSR ridge panels that are mechanically field-seamed together along the center of the ridge, utilizing only one weather sealed joint and providing a true expansion joint for panel movement.
- C. Wall Panels: Vee Rib; 36 inch wide net coverage, with reverse ribs 12 inches on center 1¼" deep, sculptured profile with textured embossed finish.
1. Material: Galvanized steel, with G90/Z275 coating.
  2. Thickness: 24 gage.
  3. Side laps: At least one full major rib, with a supporting member bearing edge on the lower panel and an anti-capillary groove on the upper panel.
  4. Length: Continuous from sill to eave up to 41 feet in length.
  5. Endlaps, Where Required: Located at a support member.
  6. Cut panels square at ends; provide base trim at sill.
  7. Finish: KXL pre-painted finish.
- D. Panel Fasteners:
1. For Galvalume and KXL finished roof panels: Stainless steel-capped carbon steel fasteners with integral sealing washer.
  2. For wall panels: Coated carbon steel.
  3. Color of exposed fastener heads to match the wall panel finish.
  4. Concealed Fasteners: Self-drilling type, of size as required.
  5. Provide fasteners in quantities and location as required by the manufacturer.
- E. Flashing and Trim: Match material and color of adjacent components. Provide trim at rakes, including peak and corner assemblies, high and low eaves, corners, bases, framed openings and as required or specified to provide weathertightness and a finished appearance.
- F. Plastic Parts: Glass fiber reinforced resin or thermoformed ABS (Acrylonitrile-Butidene-Styrene).
1. ABS: Minimum 1/8 inch (3 mm) thick.
  2. Color: Manufacturer's standard color.
- G. Sealants, Mastics and Closures: Manufacturer's standard type.
1. Provide at roof panel endlaps, sidelaps, rake, eave, transitions and accessories as required to provide a weather resistant roof system; use tape mastic or gunnable sealant at sidelaps and endlaps.
  2. Provide at wall panel rakes, eaves, transitions and accessories.
  3. Closures: Formed to match panel profiles; closed cell elastic material, manufacturer's standard color.
  4. Tape Mastic: Pre-formed butyl rubber-based, non-hardening, non-corrosive to metal; white or light gray.
  5. Gunnable Sealant: Non-skinning synthetic elastomer based material; gray or bronze.

H. Blanket Insulation: Glass fiber, with factory laminated facing material

1. Glass fiber: Odorless, neutral colored, long filament, flexible resilient, produced in compliance with the NAIMA 202 specifications.
2. Thermal Resistance: to meet R-13 at walls and R-19 at roof @ 75°F mean temperature.
3. Flame spread Index: 25 or less, when tested in accordance with UL 723.
4. Smoke Developed Index: 50 or less, when tested in accordance with UL 723.
5. UL Classified.
6. Facing: White polypropylene scrim kraft; 0.0015 inch (0.04 mm) thick polypropylene film, glass fiber scrim reinforcing, 11 lb. kraft paper; permeance 0.09 perms (1.1 ng/Pa s sq m). Composite fiberglass and facing to meet Flame Spread of 25 or less, Smoke Developed of 50 or less, when tested in accordance with UL 723.
7. Provide facing 3 inches (75 mm) wider on both edges than blanket.
8. Width: As required for installation.
9. Use blanket insulation at roof and walls.

I. Thermal Blocks: High density, 3/4 inch (19 mm) thick extruded polystyrene, for installation over the purlin.

## 2.04 ROOF ACCESSORIES

A. Eave Gutters: Roll-formed 26 gage (0.45 mm) steel sheet, with gutter straps, fasteners and joint sealant; manufacturer's standard bronze color.

1. Downspouts: 4 x 5 inches (100 by 125 mm) in 10 foot (3050 mm) lengths, with downspout elbows and downspout straps; same color as wall panels.

B. Multi-Gutters and Valley Gutters: 0.059 inch (1.5 mm) thick cold-formed steel sheet.

1. Finish: G90/Z275 galvanized coated.
2. Joints: Field welded or mechanically fastened.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Verify that foundations are installed correctly.
- B. Verify that anchor bolts are installed as indicated on anchor bolt shop drawings.

### 3.02 ERECTION

- A. Erect pre-engineered building in accordance manufacturer's instructions, erection drawings, and other erection documents.
- B. Provide temporary bracing, shoring, blocking, bridging and securing of components as required during the erection process.

END OF SECTION