

GUARANTEED MAXIMUM PRICE AMENDMENT #1

THIS GMP AMENDMENT, made this 19th day of _____ in the year of 2019, is March executed between:

The **Owner:** The City of Fayetteville

and **Construction Manager:** Metcon

for the **Project:** Construction of Senior Center West in Fayetteville ("Project") pursuant to an Agreement between Owner and Construction Manager dated July 1, 2018 ("Project Construction Agreement").

WITNESSETH

WHEREAS the Owner has published a Request for Proposals seeking the submission of competitive proposals to act as a Construction Manager at Risk to furnish professional construction management services during the design and construction of the Project identified and described in that Request for Proposals; and,

WHEREAS, the undersigned Construction Manager submitted a competitive proposal that was evaluated by the Owner; and,

WHEREAS, the Owner has made an award of the Work to the undersigned Construction Manager, and pursuant to the terms of the Request for Proposals this form is to be executed to form and memorialize the contractual relationship between the parties;

NOW THEREFORE, Construction Manager and the Owner agree as follows:

1. Upon execution of this GMP Amendment, this GMP Amendment will be incorporated into the Construction Management Agreement and become a part thereof.
2. For the sums set forth in the Construction Management Agreement, Construction Manager undertakes to furnish professional construction management services during the construction of the Project.
3. The providing of Construction Manager services will be in compliance with the provisions of the Project Construction Agreement and, to the extent that any term, requirement, or specification in this GMP Amendment will be in conflict with the Project Construction Agreement, the order of priority set forth in the Project Construction Agreement will control how any such conflicts are resolved.

4. That Construction Manager will commence provision of construction phase services under the Project Construction Agreement on a date to be specified in a written order of the Owner (Notice to Proceed) and will fully complete all services hereunder and accomplish the final completion of the project within [190] consecutive calendar days from the date of Notice to Proceed. Construction Manager will furnish to the Owner various schedules as provided in the Construction Documents setting forth planned progress of the project broken down by the various divisions or part of the Work and by calendar days.
5. It is further mutually agreed between the parties hereto that if at any time after the execution of this GMP Amendment and the surety bonds hereto attached for its faithful payment and performance, or if, for any reason, such bonds cease to be adequate to cover the performance of the Work, Construction Manager shall, at its expense, within five (5) days after the receipt of notice from the Owner so to do, furnish an additional bond or bonds in such form and amount, and with such surety or sureties as will be satisfactory to the Owner. In such event no further payment to Construction Manager will be deemed to be due under this GMP Amendment until such new or additional security for the faithful performance of the Work will be furnished in manner and form satisfactory to the Owner.
6. The scopes included with this amendment are intended to initiate the Final GMP. This Preliminary GMP will cover the costs associate with the Furnish and Erection of the Pre-Engineered Metal Building. The list of attachments included to enumerate the scope are as follows:

- F1 – Pre GMP Summary 3-19-19
- F2 – Scopes of Work (PEMB F & I)
- F3 – Metal Building Furnish Bid Form (Metallic)
- F4 – Metal Building Erection Bid Form (Jade Construction)
- F5 – Probable Balance of GMP Summary

7. Preliminary Guaranteed Maximum Price

Cost of work (Pre-Engineered Metal Building)	
Direct Construction Costs	\$ 404,819.63
General Conditions	\$ (Inc. in Fee)
Construction Manager's Bonds and Insurance	\$ 10,838.77
Allowances	\$ 0
Construction Phase Fee & General Conditions	\$ 51,613.21
Construction Manager's Contingency	<u>\$ 14,451.70</u>
Total Preliminary Guaranteed Maximum Price	<u>\$ 481,723.31</u>
<u>(amendment contracted value)</u>	
 Probable Balance of Guaranteed Maximum Price	 \$ 5,901,728.86
Total Projected Guaranteed Maximum Price	\$ 6,383,452.18

IN WITNESS WHEREOF, the Parties hereto have executed this agreement on the day and date first above written in four (4) counterparts, each of which will without proof or accounting for other counterparts, be deemed an original contract.

Construction Manager: [_____]

By: _____ Name:
Title: _____ (Owner, Partner, or Corp.
Pres. or Vice Pres. only)
(CORPORATE SEAL)

WITNESS: [_____]

By: _____ Name:
Title: _____ (Corporate Sec. or Asst. Sec. only)

WITNESS: **CITY OF FAYETTEVILLE**

_____ By: PAMELA MEGILL, City Clerk
DOUGLAS J. HEWETT, ICMA-CM,
City Manager

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act.

JAY TOLAND, CFO
City of Fayetteville

Amendment Exhibit F1

PRE-GMP by Bid Packages

March 19, 2019

	Bid Package Description	PRE GMP 3-19-19	18,784 sqft Cost/GSF	Percent of Total
(BP015000)	General Trades		\$0.00	0.0%
(BP033000)	Cast-in-Place Concrete		\$0.00	0.0%
(BP042000)	Unit Masonry		\$0.00	0.0%
(BP051000)	Structural Steel		\$0.00	0.0%
(BP061000)	Rough Carpentry		\$0.00	0.0%
(BP064000)	Architectural Woodwork		\$0.00	0.0%
(BP071000)	Insulation		\$0.00	0.0%
(BP074600)	Siding		\$0.00	0.0%
(BP079000)	Caulking, Joint Sealants & Air Barriers		\$0.00	0.0%
(BP075100)	Roofing Turnkey		\$0.00	0.0%
(BP081000)	Doors and Frames		\$0.00	0.0%
(BP084000)	Entrances, Storefronts, and Curtain Walls		\$0.00	0.0%
(BP092000)	Plaster and Gypsum Board		\$0.00	0.0%
(BP093000)	Tiling		\$0.00	0.0%
(BP095000)	Ceilings		\$0.00	0.0%
(BP096000)	Flooring		\$0.00	0.0%
(BP099100)	Painting		\$0.00	0.0%
(BP100000)	Specialties		\$0.00	0.0%
(BP101400)	Signage		\$0.00	0.0%
(BP102200)	Partitions		\$0.00	0.0%
(BP105000)	Storage Specialties		\$0.00	0.0%
(BP120000)	Window Treatments		\$0.00	0.0%
(BP130000)	PEMB - Erection (Bids Received - Jade Construction Bid Form Attached)	\$145,000.00	\$7.72	30.1%
(BP130000)	PEMB - Furnish (Bids Received - Metallic Metal Buildings Bid Form Attached)	\$259,819.63	\$13.83	53.9%
(BP131100)	Swimming Pools		\$0.00	0.0%
(BP210000)	Fire Suppression		\$0.00	0.0%
(BP220000)	Plumbing		\$0.00	0.0%
(BP230000)	Heating, Ventilating, and Air Conditioning (HVAC)		\$0.00	0.0%
(BP260000)	Electrical		\$0.00	0.0%
(BP310000)	Earthwork		\$0.00	0.0%
	Subtotal:	\$404,819.63	\$21.55	84.0%
		\$0.00	\$0.00	0.0%
0.960%	Liability Insurance	\$4,624.54	\$0.25	1.0%
0.250%	Builders Risk	\$1,204.31	\$0.06	0.3%
0.000%	Building Permit (By Owner)	\$0.00	\$0.00	0.0%
0.000%	Design Contingency	\$0.00	\$0.00	0.0%
3.000%	CM Contingency	\$14,451.70	\$0.77	3.0%
1.040%	Bond/Corp Guarantee	\$5,009.92	\$0.27	1.0%
	Construction Cost Subtotal	\$430,110.10	\$22.90	89.3%
12.000%	Metcon Fee, General Conditions & Overhead	\$51,613.21	\$2.75	10.7%
	Construction Cost Total	\$481,723.32	\$25.65	100.0%
0.000%	Escalation	\$0	\$0.00	0.0%
	Anticipated Construction Cost Total	\$481,723.32	\$25.65	100.0%

**BID PACKAGE 132000E
PRE-ENGINEERED METAL BUILDING ERECTION ONLY
(Scope of Work)**

The Scope of Work shall include the installation, complete, of **Pre-Engineered Metal Building Erection Only**.

DESCRIPTION OF SCOPE INCLUSIONS

The following is non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All Contract Requirements

B. BONDING REQUIREMENTS:

No Bonding Requirements for this Scope of Work.

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program. Notifications will be sent when submittals are reviewed, it is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal.

- i. Samples – Descriptions of samples shall be uploaded to the site for record purposes. "Hard" samples are still required per the plans/specifications.

Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, at the time of submittals, of any deviations from the Contract Documents. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is written acceptance of the specific deviations. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule. Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. This subcontractor shall provide a full time English Speaking on site non-working superintendent at all times to oversee all subcontractors work.
2. Subcontractor will not use or allow the use of the building sewer or drainage systems for cleaning or disposing of its materials, equipment or waste. In the event any systems are plugged or obstructed by this Subcontractor's materials, Subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
3. This Subcontractor is responsible for requesting in writing (RFI) all additional instruction or clarifications that may be required from the Design Consultants, which are needed for the performance of the work. The request for such information shall be done in advance to avoid any delay of the work.
4. This Subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this Subcontractor's work. **All deliveries/ hoisting/ etc. will be coordinated/ scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Subcontractor shall also coordinate any material deliveries, extended work hours, etc. with Construction Manager seventy-two (72) hours in advance. Subcontractor is responsible for receipt of all deliveries, unloading of materials and equipment, flag man, signage and barricades, off-site (outside construction fenced areas) public safety requirements, any and all required hoisting accessories, off-site staging of trucking, required street and hauling permitting and fees, street cleaning, vehicle cleaning (prior to entering roadways), any required street closings including seeking permission and coordination with all authorities having jurisdiction. All costs and/or delays associated with the refusal of deliveries will be the responsibility of the Subcontractor.
5. Traffic Control/ flag man for hauling operation in/ out of the project site.
6. All scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this subcontract is by this subcontractor.
7. Maintaining streets and parking lots in clean condition for your scope of work.
8. This subcontractor is responsible for all temporary safety measures for any openings to meet OSHA requirements pertaining to your scope of work.
9. The Subcontractor has reviewed all drawings, documents, appendices and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestone and completion dates without claims for delay or impact costs, unless substantial Owner directed Scope changes occur.
10. Within **10** days of receipt of subcontract, each subcontractor is required to issue a manpower count necessary for each section/activity of their scope of work to meet the schedule requirements. Metcon must review and approve the proposed manpower counts prior to commencement of your work. Metcon, Owner, Architect & Consultants will be tracking the manpower weekly for each activity and the status of project schedule compliance to measure performance.
11. In the event of inclement weather, all Subcontractors are responsible for the securing and protection of all of their own materials and work in place.
12. Furnish, install, maintain, and remove the following **temporary utilities**:

- a. Subcontractor shall furnish, install, maintain, and remove (upon project completion) all temporary safety barriers and/or signage use in completing their work.
13. All unloading, off-site storage and warehousing, deliveries to jobsite, uncrating, distribution of trash and packing material to dumpsters (dumpsters provided by Construction Manager) is included.
14. Subcontractor shall provide all certifications, licenses and fees per all City and State requirements for a complete supply and installation of the PEMB scope of work.
15. Touchup painting of factory finishes is included upon completion of Work

E. **PROJECT SPECIFIC SCOPE REQUIREMENTS:**

1. Erect a complete scope of work for the **Pre-Engineered Metal Buildings, Insulation, Structural steel & Erection/Install of all** as indicated on the Contract documents including providing all final assemblies, anchors, fasteners, insulation, trim, doors, hardware, etc...
2. All Field measurements and verification are included. Subcontractor shall coordinate with Construction Manager, in writing, at least seven (7) days before erection of materials, of any field discrepancies found during field measurement.
3. Supply and provide all hoisting, trucking, etc. to complete the PEMB scope of work.
4. Install all PEMB insulation for roofing and walls.
5. Install all PEMB standing seam roofing including rental equipment.
6. Install all structural steel and decking to make a complete building on depicted on drawings. **The front canopy/porte cache is excluded from this scope of work.**
7. Install roof hatch, if required. Curb-pipe boots, steel frame support, roof curbs as necessary.
8. Install all coping and metal panels/trim at the parapet walls as required per plans and specs.
9. Install all roof curbs for HVAC, roof hatch, vents and all roof penetrations as required.
10. Coordinate placement of anchor bolts required to complete the PEMB scope of work. Coordinate your scope of work with templates and layout with the concrete subcontractor as required for proper layout.
11. Properly store, protect any and all materials as required. Pressure wash and clean all steel and materials if required prior to erection. All materials are to be cleaned before payment will be made.
12. Install all metal gutters and downspouts.
13. Install all Prefinished fascia and trim.
14. Install bent flashing for brick and siding transition. Color by Architect

- 15. The following information MUST be completed on the Bid Form, located below alternates of bid form.**

Bid Package 132000E Pre-Engineered Metal Building Erection

- a. Total calendar days required for PEMB erection, inclusive of standing seam metal roof and siding.
_____ (calendar days).

DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- A. All bonding is excluded from this scope of work.
- B. All taxes are excluded from this scope of work.

**BID PACKAGE 132000F
PRE-ENGINEERED METAL BUILDING FURNISH ONLY
(Scope of Work)**

The Scope of Work shall include the furnishing, complete, of **Pre-Engineered Metal Building, Furnish Only**.

DESCRIPTION OF SCOPE INCLUSIONS

The following is non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All Contract Requirements

B. BONDING REQUIREMENTS:

There are NO bonding requirements for this scope of work.

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program. Notifications will be sent when submittals are reviewed, it is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal.

- i. Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, at the time of submittals, of any deviations from the Contract Documents. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is written acceptance of the specific deviations. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule. Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager - Architect review duration.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. This Subcontractor is responsible for requesting in writing (RFI) all additional instruction or clarifications that may be required from the Design Consultants, which are needed for the performance of the work. The request for such information shall be done in advance to avoid any delay of the work.
2. The Subcontractor has reviewed all drawings, documents, appendices and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestone and completion dates without claims for delay or impact costs, unless substantial Owner directed Scope changes occur.

E. **PROJECT SPECIFIC SCOPE REQUIREMENTS:**

1. Furnish a complete scope of work for the **Pre-Engineered Metal Buildings, Structural steel** as indicated on the Contract documents including providing all final assemblies, anchors, fasteners, trim, doors, hardware, etc... Steel for Porte Cache is EXCLUDED.
2. Generate and furnish complete Pre-Engineered Metal Building Design, Stamped and Sealed by a licensed professional engineer in the state to be erected. These design documents will be issued to the Construction Manager, Architect and Structural Engineer for review and acceptance.
3. Subcontractor to furnish building reaction information to CM and Architect no later than 3 weeks after Notice to proceed or Letter of Intent, whichever is earlier.
4. Supply all standing seam roofing and related trim shown on drawings. Roof panel to be 24ga. Vertical standing seam with Kynar finish. (Color TBD from standard color chart).
5. Supply all structural steel and decking to make a complete building on depicted on drawings. ALL STRUCTURAL STEEL FOR THE PORTE CACHE IS EXCLUDED FROM THIS PACKAGE.
6. Supply roof hatch, if required. Curb-pipe boots, steel frame support, roof curbs as necessary.
7. Supply all coping and metal panels/trim at the parapet walls as required per plans and specs.
8. Supply all metal gutters and downspouts.
9. Supply structural steel support for folding partitions including holes in beams for track support. (layout for holes will be provide by Partition subcontractor. Coordination with this subcontractor is a part of this contract.)
10. Provide all Prefinished fascia and trim.
11. Provide bent flashing for brick and siding transition. Color by Architect
12. Freight is to be included FOB Jobsite.

13. The following information MUST be completed and included with the Bid Form.

Bid Package 132000F Pre-Engineered Metal Building Furnish Only

- a. Total calendar days required PEMB to generate design documents to be submitted to CM and A/E.
_____ (calendar days).
- b. Total calendar days required for PEMB fabrication of all required materials.
_____ (calendar days).

DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- A. Insulation is EXCLUDED from this scope
- B. Anchor bolts are EXCLUDED from this scope
- C. Bonds are EXCLUDED from this scope
- D. Taxes are excluded from this quote
- E. Any material for the Porte Cache is EXCLUDED from this scope.

Bid Proposal Forms

City of Fayetteville – Senior Center West

BID PACKAGE # AND TITLE: Furnish Building Only

BID PROPOSAL OF: Metallic Building Company
(Hereinafter call "BIDDER") (Name of Firm)

A(N) Corporation organized and existing under the laws of the State of NC
(Corporation, Partnership or Individual)

BIDDER'S North Carolina STATE LICENSE NUMBER: _____

BASE BID

The undersigned agrees to Furnish a Complete Metal Building Package, as described in the Contract Documents, Addenda, and Bid Manual. Please **attach quotes, material listings and qualifications** to this form for review. Pricing, including all sales tax will be held for 45 days from receipt of pricing, is to be provided as follows:

1. Lump Sum for.
two hundred fifty-nine thousand eight hundred nineteen and sixty three cents Dollars,
(\$ 259,819.63).

Show amount in both words and figures, in case of discrepancy, the amount shown in words shall govern.

The Bidder acknowledges that he/she has read and familiarized him or herself with the Minority, Woman, and Small Business Enterprise Program, and further agrees to fully incorporate and participate with this program. The Bidder has also completed and attached to this bid proposal, the required forms entitled either:

The Bidder acknowledges receipt of the following Addenda issued by the Construction Manager:

Addendum No. <u>1</u>	Dated: <u>3/6</u>
Addendum No. <u>2</u>	Dated: <u>3/8</u>
Addendum No. <u>3</u>	Dated: <u>3/13</u>
Addendum No. _____	Dated: _____

Signature _____

Date: _____



Pricing Report

P.O. Box 40338/ Houston, TX 77240-0338
7301 Fairview/ Houston, TX 77041
(866)800-6353/(713)466-7788
Fax:(832)590-1894

Optima 7.4
03/14/20
99394
A,B

Buyer acknowledges and agrees that this quotation is not valid for plan and specification projects since it is based on the Manufacturer's product standards only.
Any Buyer-supplied information has been used only for general reference and the Manufacturer's scope of work is strictly limited as described herein.

Buyer Information

Order Number: N/A
Buyer Number: 164901 (1005*99563)
Name: METCON BUILDINGS INFRASTRUCTURE
PO (if required): N/A
Billing Address: 763 COMTECH DRIVE
PEMBROKE, NC, 28372
County: Robeson
Physical Address: 763 COMTECH DRIVE
PEMBROKE, NC, 28372
County: Robeson
Attention: MARK FLOYD
Phone: N/A
Fax: N/A
Night Phone: N/A
Cell Phone: N/A
Mail: mffloyd@metconus.com

Credit Information

Contact: N/A
Phone: N/A
General Contractor
Name: METCON
City: Pembroke
State: NC
Sub-Erector
Name: N/A
City: N/A
State: N/A
Lender
Name: N/A
Phone: N/A
Lender Address: N/A, N/A

Owner Information

RFI Opportunity Number: 166290-001
Name: N/A
Contact: N/A
Phone Number: N/A
Address: N/A
N/A, NC, 28304
County: Cumberland
End Use of Building: 4C COMMUNITY - HOSPITAL AND HEALTH TREATMENT

Credit Terms: Established Terms
Tax Exempt Status: Taxable
Tax Exempt Number: N/A

Drawings & Documentation

Qty	Type	Purpose	Seal	Size	Ship To
1	Anchor Rod	For Construction	Sealed	(17" x 22")	E-Mail PDF to Buyer
1	Erection Permit Type 2	For Construction	Sealed	(17" x 22")	E-Mail PDF to Buyer
1	Letter of Cert.		Sealed		E-Mail PDF to Buyer

Show Mem Sizes & Conns: No
Send Dwg Express Delivery: No
Corp of Engs, DOD, DOE Fed: No
UFC 4-01-01 Anti-Terrorism requirements: No
All Electronic Documents: Yes
* Note - Eligibility for All Electronic Documentation will be based on local state acceptance of electronic engineering seals. Hard copies of drawing will not be mailed.

Shipping

Shipping Terms: FOB plant with Freight allowed to jobsite
Shipping Contact: Mark Floyd
Ship To: N/A
N/A, NC, 28304
County: Cumberland
Day Phone: 910.521.8013
Night Phone: N/A
Shipping Weight: 179,958.87 lbs
Fees to Jobsite: 280.00
Shipping From: Elizabethton, TN
Lead Export Overages: No
Requested Delivery: 7/30/2019
Stack Tarps: No
IP Freight Calculation: All Buildings Ship Together

General Information

Project ID: FAYETTEVILLE SENIOR CENTER
Material Origin: Non-Domestic Steel Allowed
Estimator: James Evans
Type Limits: Inside
Project Status: Permit Only
Quote Request: No
Quote Requested Date: 3/13/2019
BMA Complexity: 8
Est. Use: (Drft/Eng Pts): (118.00/28.00)
In. EW Anc. Rod Dia: 5/8

Requested Mailing Dates

Final Anchor Rod: N/A
Approval: N/A
Permit: N/A

Jobsite Information

Address: N/A
N/A, NC, 28304
County: Cumberland
TDI Required: N/A

Project Notes

1 Non-Production Orders will be progress billed upon release of Permit or Approval drawings. The total amount due upon release of drawings will be \$4698.75. This is not an additional amount to the purchase order and does not represent the total cost of engineering. If a deposit is not collected in this amount or more at order entry, we will invoice on release of drawings. This amount does NOT pertain to projects purchased for production. The amount shown does not represent cancellation charges.

etallic has included their standard building specifications for this project. It is the responsibility of the customer to have Metallic products approved by a representative of the end use customer. This project is based upon Metallic's interpretation of the drawings and specifications in our possession at the time of pricing. Any additional plans, specifications, or other information requiring modification to this interpretation may require updated pricing. UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN, Metallic will supply its standard details, dimensions, material sizes and properties, gauges, coatings, finishes and engineering practices.

Drawings used to develop this project include: None Dated XXX
 Specs used to develop this project include: None
 Details used to develop this project include: SK-1
 Agenda used to develop this project include: None

Any drawings, plans, and/or specifications referenced in the drawings used to develop this project are not incorporated or included unless specifically noted otherwise herein.

ALL walls open for Studs/Brick/Hardyplank by others - MBC has included (2) rows of Support beams at each elevation UNO - face of the beams sit 8" inside the eel Line.

Along the Low Eave of the Multipurpose Bldg, (1) row of Support beams are included as this elevation is less than 16'-4" in height.

The Lounge framing will use Lean-to Framing connecting to the Exercise Low side columns. Independent columns are used at the exterior corners, located in the Low eave steel line of the Exercise room.

The common wall at this area remains open to the roof line.

Low Eave of the Lounge is a skewed condition to the Multipurpose Bldg - the columns will remain straight, limited to 12" depth. The common wall at this area remains open to the roof line.

MBC has included Structural Steel support members for the (3) Folding Partition walls within the Multipurpose Bldg - Structural members are located in the rafter space spanning between the main frame members. MBC has included a TUBE Column (not shown on drawings) to support the 'stacked' areas of the Partition - base of the Tube column sits 0'-8" BFF.

NO vertical hangers for the Folding Partition are by MBC.

Roof panels and roof line trims are included by MBC (matching other areas of the project):
 Porte Cache - Custom shape 26'-4"x 63' - 1/2:12 - attachment into Metal Deck by others
 Mechanical Cover - Single slope 3'-7" x 13'-2" - 1/2:12 - attachment into Metal Deck by others

MBC to create a 18'-4" x 10' notch in the High Eave corner of the Multipurpose Bldg (Grid MA-MB / M4-M5).

Two support members are included by MBC to support the 1200# Kitchen Hood in the Multipurpose Bldg - beams to be FIELD located in the Purlin Space.

NO Roof Curbs or Dektites are included at this time.

CONCLUSIONS

etal Soffit, Soffit Framing, Anchor rods, masonry anchors, masonry embedment's, Insulation (rigid and/or blanket type) and related components, Roof accessories (except as noted herein), vents, walk ways, skylights, Wall accessories such as overhead doors, windows, louvers, Access ladders, stairs, handrails, Unloading, erection, installation, equipment, and any other items not specifically mentioned in the project.

Loads

Project Use Category Building Code	Governmental 2015 IBC	Jobsite Address County	N/A N/A, NC, 28304 Cumberland
Live/Wind			
Live Load	20.000 psf	Wind Category	N/A
Wind Area Reduction Allowed	No	Miles From Coastline	N/A
Wind Exposure	Exposure C	Elevation Above Sea Level	N/A
		Rain Intensity	7.1400 in/hr
Low			
Ground Snow Load	10.000 psf	Snow Exposure	Partially Exposed
Min Roof Snow Load	0.000 psf	Rain Load	N/A
Seismic			
Spectral Response(Ss)	31.30 %	% of Snow Load for Seismic	Normal
Spectral Response(Sh)	N/A	Seismic Zone	N/A
Spectral Response(S1)	10.50 %	Near Source Factor	N/A
Spectral Response(S2)	N/A	Design Seismic for Schools	N/A
Accelerated Coefficient(Aa)	N/A	Site Class/Soil Type	(D) Stiff Soil
Velocity Coefficient(Av)	N/A		

Sustainability and Energy Efficiency

Sustainability Goal	None
Climate Controlled Building	Yes
Energy Efficiency Code	ASHRAE 90.1-2007
Gas Panel Air Infiltration Requirements	No

New Building A - EXERCISE

Label - Name Structure Type	A - EXERCISE New Stand Alone	Frame Type Elevation A	Single Slope Endwall
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Loads, Wind Enclosure, Deflections & Sidesway

Building Loads

Roof Snow Load By Design	11.000 psf
Risk Factor	III - High
Thermal Condition	All Others
Seismic Design Category	C
Wind Speed	130.00 mph

Importance Factors

Snow Is	1.10
Wind Iw	N/A
Seismic Ie	1.25
Designed Snow Exposure	Partially Exposed

Wind Enclosure

Enclosure	Calculated - Enclosed
Are all Framed Openings enclosed with materials designed to resist building wind loads?	Yes
Are all Open Areas for Other enclosed with materials designed to resist building wind loads?	Yes
Open Building Condition	Obstructed flow

Uniform Collateral Loads

Ceiling Load	0.000 psf
Ceiling Type	N/A
Brittle Wall/Dryvit	No
Other	15.000 psf

Deflections

<u>Purlins</u>			<u>Roof Panel</u>			<u>Rafters</u>		
Live	L/240	User Specified	Live	L/60	Code Limit	Live	L/360	User Specified
Snow	L/240	User Specified	Snow	L/60	Code Limit	Snow	L/360	User Specified
Wind	L/240	User Specified	Wind	L/60	Code Limit	Wind	L/360	User Specified
Total Gravity	L/240	User Specified	Total Gravity	L/60	Code Limit	Total Gravity	L/360	User Specified
Total Uplift	L/240	User Specified	Total Uplift	L/60	Code Limit	Total Uplift	L/360	User Specified
Girts	L/90	Code Limit						
Wall Panel	L/60	Code Limit						
Endwall Columns	L/120	Code Limit						

Sidesway

Crane

Crane	H/100	Code Limit
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Frame

Live	H/240	User Specified
Snow	H/240	User Specified
Serviceability Wind	H/240	User Specified
Total Gravity	H/240	User Specified
Total Seismic	H/240	User Specified

Note - (By Manufacturer) Limits values are based on Metallic's interpretation of serviceability limits as outlined in building code, AISC Design Guide #3, MBMA publications, SSI publications and industry practice. It is the Builder's responsibility to confirm the acceptability of these values with the Architect/Engineer of record for the project.

Note - Code deflection limits are based on the applicable building code, user defined loading and the manufacturer's interpretation of what the minimum value should be.

Note - The material supplied by building manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending upon actual load and member length. The frame sidesway for wind load is based upon a representation of the 10-year Mean Recurrence Interval wind load.

Topography - Escarpments

Does the building lie on the upper half of a hill, ridge, or escarpment?	No
Is this hill, ridge or escarpment unobstructed in any direction by another similar topographic feature within a distance of 100 times its height or 2 miles (3.21 km), whichever is less?	No
Is the hill or escarpment at least twice as tall as any other topographic features within 2 miles (3.21 km)?	No
Does the average slope on the top half of the hill, ridge, or escarpment equal or exceed 20% (11.3%)?	No
Is the height of the hill, ridge or escarpment equal to or greater than 15 feet (4.57 m) for Exposure C or D, or 60ft (18.3 m) for Exposure B?	No

Topographic Effects

Fill Shape	N/A
Lh, Horizontal distance of crest to half height of hill or escarpment	N/A
H, Height of Hill or Escarpment	N/A
X, Distance From the Crest to the Building Site	N/A

New Building A - EXERCISE Continued...

Geometry, Sidewalls & Endwalls

Width	97'-2"	Length	101'-0"
<u>VD</u>		<u>SWB</u>	
Eave Height	22'-5 7/16"	Eave Height	26'-6"
Roof Slope	0.500000 / 12	Roof Slope	0.000000 / 12
Distance To Ridge	97'-2"	Distance To Ridge	0'-0"
Girts	8.0" - Bypass	Girts	8.0" - Bypass
<u>WA</u>		<u>EWC</u>	
Type	Rigid Bearing Frame	Type	Rigid Bearing Frame
Girts	8.0" - Flush	Girts	8.0" - Flush
User Specified Setback	System Standard 0'-4"	User Specified Setback	System Standard 0'-4"
Designed Setback	0'-4"	Designed Setback	0'-4"
Uplifts	8.0" Z	Pregalvanized Secondary	No
3P Min Depth	N/A	Hot-Dipped Primary	No
3P Max Depth	N/A	Seal Welds	N/A
Steel Shop Coat	Red		
Paint Finish	Plated		

Note - Structural paint is intended as a primer. The primers supplied by the Manufacturer are not intended to provide the uniformity of appearance of a finish coat nor to provide intended protection if subjected to prolonged exposure. If immediate erection of steel is not possible, it must be protected from exposure to atmospheric and/or environmental conditions that may be detrimental to primer performance. These conditions would include, but not be limited to, prolonged exposure to ultra-violet light resulting in possible fading and/or spotting or standing water resulting in spotting, peeling or localized surface oxidation. Gray Primer in particular will show rust spots/streaks due to imperfections in the application process and the properties associated with Gray Primers. Primer touch-up due to transit abrasions and/or scratching during loading and unloading and erection is to be expected. Rusting or abrasions on structural members is not subject to customer rejection or claim for touch up. Additional guidelines can be found in the MBMA Commentary, the AISI Code of Standard Practice and the Manufacturer's Standard Specifications.

Bracing

Roof	Rod	(EWA to EWC) @ Bays	2
3P Bracing Location	N/A		
VD	Full Height Portal Frame	(EWA to EWC) @ Bays	2
VB	Full Height Portal Frame	(EWC to EWA) @ Bays	4
VA	None	(SWB to SWD) @ Bays	N/A
VC	None	(SWD to SWB) @ Bays	N/A
Uplifts	Knock-In Bridging Angles Allowed		
VD Girts	Not Allowed		
VB Girts	Not Allowed		
VA Girts	Not Allowed		
VC Girts	Not Allowed		
After Flange Braces	Double Clip		
Column Flange Braces	Standard		

Portal Frames

<u>SWD</u>		<u>SWB</u>	
Rod Tiers Above	N/A	Rod Tiers Above	N/A
Max Column Web Depth	60.0000"	Max Column Web Depth	60.0000"
Max Rafter Web Depth	60.0000"	Max Rafter Web Depth	60.0000"
<u>EWA</u>		<u>EWC</u>	
Rod Tiers Above	N/A	Rod Tiers Above	N/A
Max Column Web Depth	N/A	Max Column Web Depth	N/A
Max Rafter Web Depth	N/A	Max Rafter Web Depth	N/A

Note - It may be possible to reduce bracing costs by locating the bracing in a wider bay. If the braced bay is not as wide as it is tall, consider moving the bracing to a bigger bay if possible.

Spacing

WD Bay Spacing	(EWA-EWC)	25'-6", 25'-0", 26'-6", 24'-0"
WB Bay Spacing	(EWA-EWC)	25'-6", 25'-0", 26'-6", 24'-0"
NB Bay Spacing	(EWC-EWA)	24'-0", 26'-6", 25'-0", 25'-6"
WD Soldier Column Recesses	(EWA-EWC)	N/A
NB Soldier Column Recesses	(EWC-EWA)	N/A
WA Column Spacing	(SWB-SWD)	16'-7", 3@16'-0", 16'-9", 15'-10"
WC Column Spacing	(SWD-SWB)	16'-7", 4@16'-0", 16'-7"
WA Column Recesses	(SWB-SWD)	8.0", 8.0", 8.0", 8.0", 8.0", 8.0", 8.0", 8.0"
WC Column Recesses	(SWD-SWB)	8.0", 8.0", 8.0", 8.0", 8.0", 8.0", 8.0", 8.0"

Note - Negative column recess raises the base of the column above the finished floor.

WD Girt Spacings	(Base to Eave)	System Standard	
NB Girt Spacings	(Base to Eave)	System Standard	
WA Girt Spacings	(Base to Peak)	System Standard	
WC Girt Spacings	(Base to Peak)	System Standard	
Purlin Spacing		System Standard	N/A
Assigned Purlin Spacings on the Slope - SWD		(Eave to Peak)	1'-8", 22@4'-0 1/16", 4'-1 1/16"
Assigned Purlin Spacings on the Slope - SWB		(Eave to Peak)	

Note - Purlin and girt depths, DESIGNED purlin locations, and SYSTEM SPECIFIED girt locations are supplied for reference only, and may be changed at Manufacturer's discretion without notice unless specifically stated otherwise in the "Notes" section of this document.

Frame Groups

Group Number	1 (Multi-Span)		
Frame Lines	2 to 4		
Ordered Washers for High Strength Bolts	No		
WD		SWB	
Column	Tapered Allowed	Column	Straight Required
Unbraced To Elevation	22'-5 7/16"	Unbraced To Elevation	26'-6"
Max Column Web Depth	60.0"	Max Column Web Depth	12.0"
Max Rafter Web Depth	60.0"	Max Rafter Web Depth	60.0"
Exterior Column Elevation	8.0" Below Finished Floor	Exterior Column Elevation	8.0" Below Finished Floor

Module Information

Module Spacing (SWB-SWD) 37'-0", 60'-2"

Interior Columns

#	Type	Recess	Base	Top	Max Web Depth	Braced Bay
1	Built Up Plate	8.0000"	Pinned	Fixed	16.0000"	

Roof Panel (9,849 sqft)

Type	BattenLok HS (w/o pencil ribs)	Options	
Thickness	N/A	SS Clip Type	High Floating (Up to 6" Blkt. Insulation)
Width	16"	Thermal Blocks	5/8" Thick
Height	24	FM-4471 Roof Panel Anchorage	No
Color	S300 Standard TBD	UL90	Yes
Aluminum Code	N/A	Eave Icing	No
Field (KSI)	50	Wide Tape	No
Value	N/A	Additional Hand Crimper	No
Warranty	Yes		
Fastener Information		Weather-tightness Warranty	
Type	Self-Drilling	Type	Standard I
Head Finish	Long-Life	Term	20 Year
Length	Standard		
		Snow Retention System	
		Provide Snow Retention System	No

Note - Insulation not included unless specified on the Insulation page of this document.

IMPORTANT The roof panel ordered requires a seaming tool for proper roof installation. Seaming tools must be leased from the panel manufacturer only. Failure to seam a panel properly or the use of a seamer other than one from the panel manufacturer will void the manufacturer's roof weather-tightness warranties, if purchased, and can void all applicable roof panel finish warranties. It is the responsibility of the purchaser to contact the panel manufacturer to arrange rental of the seaming tools. The purchaser will be required to complete a rental agreement. Rental agreements should be submitted a minimum of 10 business days prior to the requested date of seaming tool delivery. All seaming tool rentals are invoiced separate of the material invoices. A deposit may be required prior to shipment of seaming tools. Contact your sales representative for further information.

Wall Panel (0 sqft)

Type	None	<u>Options</u>	
Thickness	N/A	Reverse Rolled	N/A
Width	N/A	Washers	N/A
Height	N/A	Concrete Notch	N/A
Color	N/A	Sealed Wall	No
Field (KSI)	N/A	Eave Closure	No
Finish Warranty	N/A	Rake Closure	No
Value	N/A	Outside Metal EW Closures	N/A
		Foam Tape (If applicable)	No

Fastener Information

Type	N/A
Head Finish	N/A
Length	N/A
Vendor	N/A

Base Condition

Cladding	None	Closure	None
Trim	None		

Trim

WD Options

Trim Type	Gutters and Downspouts
Gutter Type	Southern
Gutter Type by Design	Southern Large
Additional Gutter Supports	No

WA Options

Trim Type	Rake Trim
Gutter Type	N/A
Gutter Type by Design	N/A
Additional Gutter Supports	N/A

SWB Options

Trim Type	Eave Trim
Gutter Type	N/A
Gutter Type by Design	N/A
Additional Gutter Supports	N/A

EWC Options

Trim Type	Rake Trim
Gutter Type	N/A
Gutter Type by Design	N/A
Additional Gutter Supports	N/A

Color Selections

Eave	S300 Standard TBD
Eave Valspar Code	N/A
Rake	S300 Standard TBD
Rake Valspar Code	N/A
Corner	N/A
Base	S300 Standard TBD
Base Valspar Code	N/A
Gutters	S300 Standard TBD
Gutters Valspar Code	N/A
Downspouts	S300 Standard TBD
Downspouts Valspar Code	N/A
Roof to Roof	N/A
Roof to Wall	N/A

Trim Profile	Signature
Downspout Type	Press Broke
All Trim Yield (KSI)	50

* Note - Gutters selected may differ from the Gutters designed.

New Building A - EXERCISE Continued...

Accessories

Downspouts

Elevation	SWD	Elbow	Yes
Bay	N/A	Trim	S300 Standard TBD
Quantity	3	Trim Valspar Code	N/A
Height	22'-5 7/16"	Distance From Left Steelline	0'-0"
		Distance From Left Column	0'-0"

Open Areas

Type	Full Height	Support Beam Included	Yes	<u>Support Beam</u>	
Elevation	EWA	Use Flange Bracing	No	Type	Wide Flange
Bay	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Height	97'-2"	Distance From Left Column	0'-0"	Deflection	L/240
Open For	Full	Shear Wall	No	Location	Behind Wall
Material Thickness	Studs	Column Bracing	N/A		
Material Weight	1'-2"	Base Type	N/A		
Distance to Face of Material	40.000 psf	Include Jamb Flash	No		
Distance to Support Beam	0'-6"	Flash Color	N/A		
Connection Spacing	0'-8"	Flash Valspar Code	N/A		
Needed in Future	4'-0"	Open for Wind	0.00 %		
	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		

Type	Full Height	Support Beam Included	Yes	<u>Support Beam</u>	
Elevation	SWB	Use Flange Bracing	No	Type	Wide Flange
Bay	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Height	101'-0"	Distance From Left Column	0'-0"	Deflection	L/240
Open For	Full	Shear Wall	No	Location	Behind Wall
Material Thickness	Studs	Column Bracing	N/A		
Material Weight	1'-2"	Base Type	N/A		
Distance to Face of Material	40.000 psf	Include Jamb Flash	No		
Distance to Support Beam	0'-6"	Flash Color	N/A		
Connection Spacing	0'-8"	Flash Valspar Code	N/A		
Needed in Future	4'-0"	Open for Wind	0.00 %		
	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		

Type	Full Height	Support Beam Included	Yes	<u>Support Beam</u>	
Elevation	EWC	Use Flange Bracing	No	Type	Wide Flange
Bay	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Height	97'-2"	Distance From Left Column	0'-0"	Deflection	L/240
Open For	Full	Shear Wall	No	Location	Behind Wall
Material Thickness	Studs	Column Bracing	N/A		
Material Weight	1'-2"	Base Type	N/A		
Distance to Face of Material	40.000 psf	Include Jamb Flash	No		
Distance to Support Beam	0'-6"	Flash Color	N/A		
Connection Spacing	0'-8"	Flash Valspar Code	N/A		
Needed in Future	4'-0"	Open for Wind	0.00 %		
	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		

Type	Full Height	Support Beam Included	Yes	<u>Support Beam</u>	
Elevation	SWD	Use Flange Bracing	No	Type	Wide Flange
Bay	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Height	13'-11"	Distance From Left Column	0'-0"	Deflection	L/240
Open For	Full	Shear Wall	No	Location	Behind Wall
Material Thickness	Studs	Column Bracing	N/A		
Material Weight	1'-2"	Base Type	N/A		
Distance to Face of Material	40.000 psf	Include Jamb Flash	No		
Distance to Support Beam	0'-6"	Flash Color	N/A		
Connection Spacing	0'-8"	Flash Valspar Code	N/A		
Needed in Future	4'-0"	Open for Wind	0.00 %		
	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		

Type	Full Height	Support Beam Included	No	<u>Support Beam</u>	
Elevation	SWD	Use Flange Bracing	N/A	Not by Metallic	
Bay	1	Distance From Left Steelline	13'-11"		
Height	57'-6"	Distance From Left Column	13'-11"		
Open For	Full	Shear Wall	No		
Material Thickness	Other	Column Bracing	N/A		
Material Weight	N/A	Base Type	N/A		
Distance to Face of Material	0.000 psf	Include Jamb Flash	No		
Distance to Support Beam	0'-0"	Flash Color	N/A		
Connection Spacing	0'-0"	Flash Valspar Code	N/A		
Needed in Future	0'-0"	Open for Wind	0.00 %		
	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		

New Building A - EXERCISE Continued...

Accessories Continued...

Support Beam Included	Yes	Support Beam	
Use Flange Bracing	No	Type	
Distance From Left Steelline	71'-5"	Flange Brace	
Distance From Left Column	20'-11"	Deflection	
Shear Wall	No	Location	
Column Bracing	N/A		
Base Type	N/A		
Include Jamb Flash	No		
Flash Color	N/A		
Flash Valspar Code	N/A		
Open for Wind	0.00 %		
Liner Panel To Remain	No Liner Found		
Insulation To Remain	No		

Note - Support beam will be at max. height allowed by Manufacturer's design, unless otherwise noted.

Support Beams

Support Beam	EWA	Beam Deflection	L/240
Support Column	1	Connection Spacing	4'-0"
Support Column	7	Beam Height	16'-0"
Material Thickness	14.0"	Flange Brace	No
Material Weight	40.000 psf	Supported Material is in	No
		Steelline	
Support Beam	SWB	Beam Deflection	L/240
Support Column	1	Connection Spacing	4'-0"
Support Column	5	Beam Height	16'-0"
Material Thickness	14.0"	Flange Brace	No
Material Weight	40.000 psf	Supported Material is in	No
		Steelline	
Support Beam	EWC	Beam Deflection	L/240
Support Column	1	Connection Spacing	4'-0"
Support Column	7	Beam Height	16'-0"
Material Thickness	14.0"	Flange Brace	No
Material Weight	40.000 psf	Supported Material is in	No
		Steelline	
Support Beam	SWD	Beam Deflection	L/240
Support Column	1	Connection Spacing	4'-0"
Support Column	2	Beam Height	16'-0"
Material Thickness	14.0"	Flange Brace	No
Material Weight	40.000 psf	Supported Material is in	No
		Steelline	
Support Beam	SWD	Beam Deflection	L/240
Support Column	4	Connection Spacing	4'-0"
Support Column	5	Beam Height	16'-0"
Material Thickness	14.0"	Flange Brace	No
Material Weight	40.000 psf	Supported Material is in	No
		Steelline	

Insulation

Building Has Insulation	Yes
Insulation By Metallic	No

Insulation Information

Insulation Type	Full Cavity Insulation
Insulation Thickness	3.50"
Cavity Purlin Bracing Allowed?	Yes

New Building B - LOUNGE

Label - Name	B - LOUNGE	Frame Type	Single Slope
Structure	New	Elevation A	Endwall
Roof Type	Stand Alone		

Loads, Wind Enclosure, Deflections & Sidesway

Building Loads

Roof Snow Load By Design	11.000 psf
Risk Factor	III - High
Thermal Condition	All Others
Seismic Design Category	C
Wind Speed	130.00 mph

Importance Factors

Snow Is	1.10
Wind Iw	N/A
Seismic Ie	1.25
Designed Snow Exposure	Partially Exposed

Wind Enclosure

Enclosure	Calculated - Enclosed
Are all Framed Openings enclosed with materials designed to resist building wind loads?	Yes
Are all Open Areas for Other enclosed with materials designed to resist building wind loads?	Yes
Open Building Condition	Obstructed flow

Uniform Collateral Loads

Ceiling Load	0.000 psf
Ceiling Type	N/A
Brittle Wall/Dryvit	No
Other	15.000 psf

Deflections

Purlins			Roof Panel			Rafters		
Live	L/240	User Specified	Live	L/60	Code Limit	Live	L/360	User Specified
Snow	L/240	User Specified	Snow	L/60	Code Limit	Snow	L/360	User Specified
Wind	L/240	User Specified	Wind	L/60	Code Limit	Wind	L/360	User Specified
Total Gravity	L/240	User Specified	Total Gravity	L/60	Code Limit	Total Gravity	L/360	User Specified
Total Uplift	L/240	User Specified	Total Uplift	L/60	Code Limit	Total Uplift	L/360	User Specified
Roofs	L/90	Code Limit						
Wall Panel	L/60	Code Limit						
Endwall Columns	L/120	Code Limit						

Sidesway

Crane			Frame		
Crane	H/100	Code Limit	Live	H/240	User Specified
			Snow	H/240	User Specified
			Serviceability Wind	H/240	User Specified
			Total Gravity	H/240	User Specified
			Total Seismic	H/240	User Specified

Note - (By Manufacturer) Limits values are based on Metallic's interpretation of serviceability limits as outlined in building code, AISC Design Guide #3, MBMA publications, SSBi publications and industry practice. It is the Builder's responsibility to confirm the acceptability of these values with the Architect/Engineer of record for the project.

Note - Code deflection limits are based on the applicable building code, user defined loading and the manufacturer's interpretation of what the minimum value should be.

Note - The material supplied by building manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending upon actual load and member length. The frame sidesway for wind load is based upon a representation of the 10-year Mean Recurrence Interval wind load.

Topography - Escarpments

Does the building lie on the upper half of a hill, ridge, or escarpment?	No
Is this hill, ridge or escarpment unobstructed in any direction by another similar topographic feature within a distance of 100 times its height or 2 miles (321 km), whichever is less?	No
Is the hill or escarpment at least twice as tall as any other topographic features within 2 miles (3.21 km)?	No
Does the average slope on the top half of the hill, ridge, or escarpment equal or exceed 20% (11.3%)?	No
Is the height of the hill, ridge or escarpment equal to or greater than 15 feet (4.57 m) for Exposure C or D, or 60ft (18.3 m) for Exposure B?	No

Topographic Effects

Hill Shape	N/A
Distance, Horizontal distance of crest to half height of hill or escarpment	N/A
Height of Hill or Escarpment	N/A
Distance From the Crest to the Building Site	N/A

New Building B - LOUNGE Continued...

Geometry, Sidewalls & Endwalls

Width	27'-1 5/8"	Length	57'-6"
WD		SWB	
Eave Height	21'-3 7/8"	Eave Height	22'-5 7/16"
Roof Slope	0.500000 / 12	Roof Slope	0.000000 / 12
Distance To Ridge	27'-1 5/8"	Distance To Ridge	0'-0"
Girts	8.0" - Bypass	Girts	8.0" - Bypass
WA		EWC	
Type	Non-Expandable Frame	Type	Non-Expandable Frame
Girts	8.0" - Flush	Girts	8.0" - Flush
User Specified Setback	System Standard 1'-2"	User Specified Setback	System Standard 1'-2"
Designed Setback	1'-2"	Designed Setback	1'-2"
Uplins	8.0" Z	Pregalvanized Secondary	No
3P Min Depth	N/A	Hot-Dipped Primary	No
3P Max Depth	N/A	Seal Welds	N/A
Steel Shop Coat	Red		
Paint Finish	Plated		

Note - Structural paint is intended as a primer. The primers supplied by the Manufacturer are not intended to provide the uniformity of appearance of a finish coat nor to provide intended protection if subjected to prolonged exposure. If immediate erection of steel is not possible, it must be protected from exposure to atmospheric and/or environmental conditions that may be detrimental to primer performance. These conditions would include, but not be limited to, prolonged exposure to ultra-violet light resulting in possible fading and/or spotting or standing water resulting in spotting, peeling or localized surface oxidation. Gray Primer in particular will show rust spots/streaks due to imperfections in the application process and the properties associated with Gray Primers. Primer touch-up due to transit abrasions and/or scratching during loading and unloading and erection is to be expected. Rusting or abrasions on structural members is not subject to customer rejection or claim for touch up. Additional guidelines can be found in the MBMA Commentary, the AISI Code of Standard Practice and the Manufacturer's Standard Specifications.

Stand Alone

Direction from Building A	D - Right	Y Direction from Building A	C - Up
Distance from Building A	97'-2"	Y Distance from Building A	13'-11"

Bracing

Roof	Rod	(EWA to EWC) @ Bays	2
3P Bracing Location	N/A		
WD	1 Tier Rod	(EWA to EWC) @ Bays	2
WB	1 Tier Rod	(EWC to EWA) @ Bays	2
WA	None	(SWB to SWD) @ Bays	N/A
WC	None	(SWD to SWB) @ Bays	N/A
Uplins	Knock-In Bridging Angles Allowed		
WD Girts	Not Allowed		
WB Girts	Not Allowed		
WA Girts	Not Allowed		
WC Girts	Not Allowed		
After Flange Braces	Double Clip		
Column Flange Braces	Standard		

Portal Frames

WD		SWB	
Rod Tiers Above	N/A	Rod Tiers Above	N/A
Max Column Web Depth	N/A	Max Column Web Depth	N/A
Max Rafter Web Depth	N/A	Max Rafter Web Depth	N/A
WA		EWC	
Rod Tiers Above	N/A	Rod Tiers Above	N/A
Max Column Web Depth	N/A	Max Column Web Depth	N/A
Max Rafter Web Depth	N/A	Max Rafter Web Depth	N/A

Note - It may be possible to reduce bracing costs by locating the bracing in a wider bay. If the braced bay is not as wide as it is tall, consider moving the bracing to a bigger bay if possible.

Spacing

WD Bay Spacing	(EWA-EWC)	11'-7", 25'-0", 20'-11"
oof Bay Spacing	(EWA-EWC)	11'-7", 25'-0", 20'-11"
WB Bay Spacing	(EWC-EWA)	20'-11", 25'-0", 11'-7"
WD Soldier Column Recesses	(EWA-EWC)	N/A
WB Soldier Column Recesses	(EWC-EWA)	N/A
WA Column Spacing	(SWB-SWD)	27'-1 5/8"
WC Column Spacing	(SWD-SWB)	27'-1 5/8"
WA Column Recesses	(SWB-SWD)	0.0", 0.0"
WC Column Recesses	(SWD-SWB)	0.0", 0.0"

Note - Negative column recess raises the base of the column above the finished floor.

WD Girt Spacings	(Base to Eave)	System Standard	
WB Girt Spacings	(Base to Eave)	System Standard	
WA Girt Spacings	(Base to Peak)	System Standard	
WC Girt Spacings	(Base to Peak)	System Standard	
Purlin Spacing		System Standard	N/A
Designed Purlin Spacings on the Slope - SWD		(Eave to Peak)	2@4'-0 7/8", 2@4'-11 1/16", 5'-0"
Designed Purlin Spacings on the Slope - SWB		(Eave to Peak)	

Note - Purlin and girt depths, DESIGNED purlin locations, and SYSTEM SPECIFIED girt locations are supplied for reference only, and may be changed at Manufacturer's discretion without notice unless specifically stated otherwise in the "Notes" section of this document.

Frame Groups

Group Number	1 (Clearspan)
Frame Lines	1 to 4
Ordered Washers for High Strength Bolts	No

WD

Column	Straight Required
Unbraced To Elevation	N/A
Max Column Web Depth	12.0"
Max Rafter Web Depth	24.0"
Exterior Column Elevation	At Finished Floor

SWB

Column	Straight Required
Unbraced To Elevation	N/A
Max Column Web Depth	20.0"
Max Rafter Web Depth	24.0"
Exterior Column Elevation	At Finished Floor

Roof Panel (1,577 sqft)

Type	BattenLok HS (w/o pencil ribs)	<u>Options</u>	
Thickness	N/A	SS Clip Type	High Floating (Up to 6" Blkt. Insulation)
Width	16"	Thermal Blocks	5/8" Thick
Height	24	FM-4471 Roof Panel Anchorage	No
Color	S300 Standard TBD	UL90	Yes
Alspar Code	N/A	Eave Icing	No
Yield (KSI)	50	Wide Tape	No
Value	N/A	Additional Hand Crimper	No
Finish Warranty	Yes		
<u>Fastener Information</u>		<u>Weather-tightness Warranty</u>	
Type	Self-Drilling	Type	Standard I
Head Finish	Long-Life	Term	20 Year
Length	Standard		
		<u>Snow Retention System</u>	
		Provide Snow Retention System	No

Note - Insulation not included unless specified on the Insulation page of this document.

IMPORTANT** The roof panel ordered requires a seaming tool for proper roof installation. Seaming tools must be leased from the panel manufacturer only. Failure to seam a panel properly or the use of a seamer other than one from the panel manufacturer will void the manufacturer's roof weather-tightness warranties, if purchased, and can void all applicable roof panel finish warranties. It is the responsibility of the purchaser to contact the panel manufacturer to arrange rental of the seaming tools. The purchaser will be required to complete a rental agreement. Rental agreements should be submitted a minimum of 10 business days prior to the requested date of seaming tool delivery. All seaming tool rentals are invoiced separate of the material invoices. A deposit may be required prior to shipment of seaming tools. Contact your sales representative for further information.

Wall Panel (0 sqft)

Type	None	<u>Options</u>	
Thickness	N/A	Reverse Rolled	N/A
Width	N/A	Washers	N/A
Height	N/A	Concrete Notch	N/A
Color	N/A	Sealed Wall	No
Field (KSI)	N/A	Eave Closure	No
Finish Warranty	N/A	Rake Closure	No
Value	N/A	Outside Metal BW Closures	N/A
		Foam Tape (If applicable)	No

Installer Information

Type	N/A
Lead Finish	N/A
Length	N/A
Vendor	N/A

Base Condition

Finishing	None	Closure	None
Trim	None		

Trim

WD Options

Trim Type	Gutters and Downspouts
Gutter Type	Southern
Gutter Type by Design	Southern Large
Additional Gutter Supports	No

WA Options

Trim Type	Rake Trim
Gutter Type	N/A
Gutter Type by Design	N/A
Additional Gutter Supports	N/A

SWB Options

Trim Type	No Trim
Gutter Type	N/A
Gutter Type by Design	N/A
Additional Gutter Supports	N/A

EWC Options

Trim Type	Rake Trim
Gutter Type	N/A
Gutter Type by Design	N/A
Additional Gutter Supports	N/A

Color Selections

Eave	N/A
Rake	S300 Standard TBD
Rake Valspar Code	N/A
Corner	N/A
Eave	N/A
Gutters	S300 Standard TBD
Gutters Valspar Code	N/A
Downspouts	S300 Standard TBD
Downspouts Valspar Code	N/A
Roof to Roof	N/A
Roof to Wall	N/A

Trim Profile	Signature
Downspout Type	Press Broke
All Trim Yield (KSI)	50

* Note - Gutters selected may differ from the Gutters designed.

New Building B - LOUNGE Continued...

Accessories

Downspouts

Elevation	SWD	Elbow	Yes
Height	N/A	Trim	S300 Standard TBD
Quantity	3	Trim Valspar Code	N/A
Height	5'-0"	Distance From Left Steelline	0'-0"
		Distance From Left Column	0'-0"

Pen Areas

Type	Full Height	Support Beam Included	No	<u>Support Beam</u>	
Elevation	SWB	Use Flange Bracing	N/A	Not by Metallic	
Part Bay	1	Distance From Left Steelline	0'-0"		
Width	57'-6"	Distance From Left Column	0'-0"		
Height	Full	Shear Wall	No		
Pen For	Other	Column Bracing	N/A		
Material Thickness	N/A	Base Type	N/A		
Material Weight	0.000 psf	Include Jamb Flash	No		
Distance to Face of Material	0'-0"	Flash Color	N/A		
Distance to Support Beam	0'-0"	Flash Valspar Code	N/A		
Connection Spacing	0'-0"	Open for Wind	0.00 %		
Installed in Future	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		
Type	Full Height	Support Beam Included	Yes	<u>Support Beam</u>	
Elevation	EWC	Use Flange Bracing	No	Type	Channel
Part Bay	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Width	27'-1 5/8"	Distance From Left Column	0'-0"	Deflection	L/600
Height	Full	Shear Wall	No	Location	Top of Wall
Pen For	Studs	Column Bracing	N/A		
Material Thickness	1'-2"	Base Type	N/A		
Material Weight	40.000 psf	Include Jamb Flash	No		
Distance to Face of Material	0'-6"	Flash Color	N/A		
Distance to Support Beam	0'-8"	Flash Valspar Code	N/A		
Connection Spacing	4'-0"	Open for Wind	0.00 %		
Installed in Future	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		
Type	Full Height	Support Beam Included	No	<u>Support Beam</u>	
Elevation	SWD	Use Flange Bracing	N/A	Not by Metallic	
Part Bay	1	Distance From Left Steelline	0'-0"		
Width	57'-6"	Distance From Left Column	0'-0"		
Height	Full	Shear Wall	No		
Pen For	Other	Column Bracing	N/A		
Material Thickness	N/A	Base Type	N/A		
Material Weight	0.000 psf	Include Jamb Flash	No		
Distance to Face of Material	0'-0"	Flash Color	N/A		
Distance to Support Beam	0'-0"	Flash Valspar Code	N/A		
Connection Spacing	0'-0"	Open for Wind	0.00 %		
Installed in Future	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		
Type	Full Height	Support Beam Included	Yes	<u>Support Beam</u>	
Elevation	EWA	Use Flange Bracing	No	Type	Channel
Part Bay	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Width	27'-1 5/8"	Distance From Left Column	0'-0"	Deflection	L/600
Height	Full	Shear Wall	No	Location	Top of Wall
Pen For	Studs	Column Bracing	N/A		
Material Thickness	1'-2"	Base Type	N/A		
Material Weight	40.000 psf	Include Jamb Flash	No		
Distance to Face of Material	0'-6"	Flash Color	N/A		
Distance to Support Beam	0'-8"	Flash Valspar Code	N/A		
Connection Spacing	4'-0"	Open for Wind	0.00 %		
Installed in Future	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		

Note - Support beam will be at max. height allowed by Manufacturer's design, unless otherwise noted.

Insulation

Building Has Insulation	Yes
Insulation By Metallic	No

Insulation Information

Insulation Type	Full Cavity Insulation
Insulation Thickness	3.50"
Cavity Purlin Bracing Allowed?	Yes

New Building C - MULTI

Label - Name	C - MULTI	Frame Type	Single Slope
Structure	New	Elevation A	Endwall
Type	Stand Alone		

Loads, Wind Enclosure, Deflections & Sidesway

Building Loads

Roof Snow Load By Design	11.000 psf
Risk Factor	III - High
Thermal Condition	All Others
Seismic Design Category	C
Wind Speed	130.00 mph

Importance Factors

Snow Is	1.10
Wind Iw	N/A
Seismic Ie	1.25
Designed Snow Exposure	Partially Exposed

Wind Enclosure

Enclosure	Calculated - Enclosed
Are all Framed Openings enclosed with materials designed to resist building wind loads?	Yes
Are all Open Areas for Other enclosed with materials designed to resist building wind loads?	Yes
Open Building Condition	Obstructed flow

Uniform Collateral Loads

Ceiling Load	0.000 psf
Ceiling Type	N/A
Brittle Wall/Dryvit	No
Other	15.000 psf

Deflections

<u>Purlins</u>			<u>Roof Panel</u>			<u>Rafters</u>		
Live	L/240	User Specified	Live	L/60	Code Limit	Live	L/360	User Specified
Snow	L/240	User Specified	Snow	L/60	Code Limit	Snow	L/360	User Specified
Wind	L/240	User Specified	Wind	L/60	Code Limit	Wind	L/360	User Specified
Total Gravity	L/240	User Specified	Total Gravity	L/60	Code Limit	Total Gravity	L/360	User Specified
Total Uplift	L/240	User Specified	Total Uplift	L/60	Code Limit	Total Uplift	L/360	User Specified
Brts	L/90	Code Limit						
Wall Panel	L/60	Code Limit						
Endwall Columns	L/120	Code Limit						

Sidesway**Crane**

Crane	H/100	Code Limit
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Frame

Live	H/240	User Specified
Snow	H/240	User Specified
Serviceability Wind	H/240	User Specified
Total Gravity	H/240	User Specified
Total Seismic	H/240	User Specified

Note - (By Manufacturer) Limits values are based on Metallic's interpretation of serviceability limits as outlined in building code, AISC Design Guide #3, MBMA publications, SSBi publications and industry practice. It is the Builder's responsibility to confirm the acceptability of these values with the Architect/Engineer of record for the project.

Note - Code deflection limits are based on the applicable building code, user defined loading and the manufacturer's interpretation of what the minimum value should be.

Note - The material supplied by building manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending upon actual load and member length. The frame sidesway for wind load is based upon a representation of the 10-year Mean Recurrence Interval wind load.

Point Loads

FOLDING PARTITION		Load	
Applied To	Primary	Load Location	3,600.00 lbs
Roof Unit Width	N/A	Bay (Numbering from EWA to EWC)	Suspended - Inside
Roof Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	4
Roof Unit Height	N/A	Dist. from SWD to Center of Point Load	12'-9"
Attaching Purlins is Required	No	Beam by Manufacturer	41'-0"
Opening Width	N/A	Number of Beams	No
Opening Length	N/A		N/A
FOLDING PARTITION		Load	
Applied To	Primary	Load Location	3,600.00 lbs
Roof Unit Width	N/A	Bay (Numbering from EWA to EWC)	Suspended - Inside
Roof Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	4
Roof Unit Height	N/A	Dist. from SWD to Center of Point Load	12'-9"
Attaching Purlins is Required	No	Beam by Manufacturer	73'-0"
Opening Width	N/A	Number of Beams	No
Opening Length	N/A		N/A

New Building C - MULTI Continued...

Point Loads Continued...

escription	FOLDING PARTITION	Load	3,600.00 lbs
plied To	Primary	Load Location	Suspended - Inside
oof top Unit Width	N/A	Bay (Numbering from EWA to EWC)	3
oof top Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	12'-6"
oof top Unit Height	N/A	Dist. from SWD to Center of Point Load	41'-0"
itting Purlins is Required	No	Beam by Manufacturer	No
ening Width	N/A	Number of Beams	N/A
ening Length	N/A		
escription	FOLDING PARTITION	Load	3,600.00 lbs
plied To	Primary	Load Location	Suspended - Inside
oof top Unit Width	N/A	Bay (Numbering from EWA to EWC)	3
oof top Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	12'-6"
oof top Unit Height	N/A	Dist. from SWD to Center of Point Load	73'-0"
itting Purlins is Required	No	Beam by Manufacturer	No
ening Width	N/A	Number of Beams	N/A
ening Length	N/A		
escription	HOOD	Load	1,200.00 lbs
plied To	Primary	Load Location	Suspended - Inside
oof top Unit Width	N/A	Bay (Numbering from EWA to EWC)	2
oof top Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	7'-0"
oof top Unit Height	N/A	Dist. from SWD to Center of Point Load	19'-0"
itting Purlins is Required	No	Beam by Manufacturer	Yes
ening Width	N/A	Number of Beams	2
ening Length	N/A		
escription	FOLDING PARTITION	Load	3,920.00 lbs
plied To	Primary	Load Location	Suspended - Inside
oof top Unit Width	N/A	Bay (Numbering from EWA to EWC)	4
oof top Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	5'-0"
oof top Unit Height	N/A	Dist. from SWD to Center of Point Load	87'-0"
itting Purlins is Required	No	Beam by Manufacturer	No
ening Width	N/A	Number of Beams	N/A
ening Length	N/A		

oad Applied to Primary Framing

Curbs are not included, please contact Estimating for pricing assistance.

If curbs are not supplied by Manufacturer, sub-framing between main supports is also not provided by Manufacturer.

eam by Manufacturer

If roof slope is 1:12 or less the support beams will be located in the purlin cavity.

If roof slope exceeds 1:12 the support beams will be located in the rafter web.

All roof support beams are field located. Attachment to the rafter is not by Manufacturer.

Topography - Escarpments

Does the building lie on the upper half of a hill, ridge, or escarpment?	No
Is this hill, ridge or escarpment unobstructed in any direction by another similar topographic feature within a distance of 100 times its height or 2 miles (321.84 m), whichever is less?	No
Is the hill or escarpment at least twice as tall as any other topographic features within 2 miles (3.21 km)?	No
Does the average slope on the top half of the hill, ridge, or escarpment equal or exceed 20% (11.3%)?	No
Is the height of the hill, ridge or escarpment equal to or greater than 15 feet (4.57 m) for Exposure C or D, or 60ft (18.3 m) for Exposure B?	No

Topographic Effects

Hill Shape	N/A
L, Horizontal distance of crest to half height of hill or escarpment	N/A
H, Height of Hill or Escarpment	N/A
X, Distance From the Crest to the Building Site	N/A

New Building C - MULTI Continued...

Geometry, Sidewalls & Endwalls

Width	101'-0"	Length	80'-2"
WD		SWB	
Eave Height	16'-2"	Eave Height	20'-4 1/2"
Roof Slope	0.500000 / 12	Roof Slope	0.000000 / 12
Distance To Ridge	101'-0"	Distance To Ridge	0'-0"
Girts	8.0" - Bypass	Girts	8.0" - Bypass
WA		EWC	
Type	Rigid Bearing Frame	Type	Rigid Bearing Frame
Girts	8.0" - Flush	Girts	8.0" - Flush
User Specified Setback	System Standard 0'-4"	User Specified Setback	System Standard 0'-4"
Designed Setback	0'-4"	Designed Setback	0'-4"
Uplins	8.0" Z	Pregalvanized Secondary	No
3P Min Depth	N/A	Hot-Dipped Primary	No
3P Max Depth	N/A	Seal Welds	N/A
Steel Shop Coat	Red		
Paint Finish	Plated		

Note - Structural paint is intended as a primer. The primers supplied by the Manufacturer are not intended to provide the uniformity of appearance of a finish coat nor to provide intended protection if subjected to prolonged exposure. If immediate erection of steel is not possible, it must be protected from exposure to atmospheric and/or environmental conditions that may be detrimental to primer performance. These conditions would include, but not be limited to, prolonged exposure to ultra-violet light resulting in possible fading and/or spotting or standing water resulting in spotting, peeling or localized surface oxidation. Gray Primer in particular will show rust spots/streaks due to imperfections in the application process and the properties associated with Gray Primers. Primer touch-up due to transit abrasions and/or scratching during loading and unloading and erection is to be expected. Rusting or abrasions on structural members is not subject to customer rejection or claim for touch up. Additional guidelines can be found in the MBMA Commentary, the AISI Code of Standard Practice and the Manufacturer's Standard Specifications.

Stand Alone

Direction from Building A	D - Right	Y Direction from Building A	A - Down
Distance from Building A	124'-3 5/8"	Y Distance from Building A	0'-0"

Bracing

Roof	Rod	(EWA to EWC) @ Bays	3
3P Bracing Location	N/A		
WD	Full Height Portal Frame	(EWA to EWC) @ Bays	4
WB	Full Height Portal Frame	(EWC to EWA) @ Bays	2
WA	None	(SWB to SWD) @ Bays	N/A
WC	None	(SWD to SWB) @ Bays	N/A
Uplins	Knock-In Bridging Angles Allowed		
WD Girts	Not Allowed		
WB Girts	Not Allowed		
WA Girts	Not Allowed		
WC Girts	Not Allowed		
After Flange Braces	Double Clip		
Column Flange Braces	Standard		

Portal Frames

SWD		SWB	
Rod Tiers Above	N/A	Rod Tiers Above	N/A
Max Column Web Depth	60.0000"	Max Column Web Depth	60.0000"
Max Rafter Web Depth	60.0000"	Max Rafter Web Depth	60.0000"
EWA		EWC	
Rod Tiers Above	N/A	Rod Tiers Above	N/A
Max Column Web Depth	N/A	Max Column Web Depth	N/A
Max Rafter Web Depth	N/A	Max Rafter Web Depth	N/A

Note - It may be possible to reduce bracing costs by locating the bracing in a wider bay. If the braced bay is not as wide as it is tall, consider moving the bracing to a bigger bay if possible.

Spacing

WD Bay Spacing	(EWA-EWC)	11'-4", 18'-4", 25'-0", 25'-6"
Wof Bay Spacing	(EWA-EWC)	11'-4", 18'-4", 25'-0", 25'-6"
WB Bay Spacing	(EWC-EWA)	25'-6", 25'-0", 18'-4", 11'-4"
WD Soldier Column Recesses	(EWA-EWC)	N/A
WB Soldier Column Recesses	(EWC-EWA)	N/A
WA Column Spacing	(SWB-SWD)	19'-4", 25'-2 1/2", 21'-3", 18'-8", 16'-6 1/2"
WC Column Spacing	(SWD-SWB)	16'-6 1/2", 24'-4", 32'-0", 28'-1 1/2"
WA Column Recesses	(SWB-SWD)	8.0", 8.0", 8.0", 8.0", 8.0", 8.0"
WC Column Recesses	(SWD-SWB)	8.0", 8.0", 8.0", 8.0", 8.0"

Note - Negative column recess raises the base of the column above the finished floor.

WD Girt Spacings	(Base to Eave)	System Standard	
WB Girt Spacings	(Base to Eave)	System Standard	
WA Girt Spacings	(Base to Peak)	System Standard	
WC Girt Spacings	(Base to Peak)	System Standard	
Purlin Spacing		System Standard	N/A
Assigned Purlin Spacings on the Slope - SWD		(Eave to Peak)	2@3'-9 9/16", 21@4'-3 1/16"
Assigned Purlin Spacings on the Slope - SWB		(Eave to Peak)	

Note - Purlin and girt depths, DESIGNED purlin locations, and SYSTEM SPECIFIED girt locations are supplied for reference only, and may be changed at Manufacturer's discretion without notice unless specifically stated otherwise in the "Notes" section of this document.

Frame Groups

Group Number	1 (Multi-Span)		
Frame Lines	2 to 2		
Ordered Washers for High Strength Bolts	No		
WD		SWB	
Column	Tapered Allowed	Column	Tapered Allowed
Unbraced To Elevation	N/A	Unbraced To Elevation	N/A
Max Column Web Depth	60.0"	Max Column Web Depth	60.0"
Max Rafter Web Depth	60.0"	Max Rafter Web Depth	60.0"
Exterior Column Elevation	8.0" Below Finished Floor	Exterior Column Elevation	8.0" Below Finished Floor

Module Information

Module Spacing (SWB-SWD) 44'-6 1/2", 56'-5 1/2"

Interior Columns

#	Type	Recess	Base	Top	Max Web Depth	Braced Bay
1	Built Up Plate	8.0000"	Pinned	Fixed	16.0000"	

Group Number	2 (Clearspan)
Frame Lines	3 to 4
Ordered Washers for High Strength Bolts	No

WD		SWB	
Column	Tapered Allowed	Column	Tapered Allowed
Unbraced To Elevation	N/A	Unbraced To Elevation	N/A
Max Column Web Depth	60.0"	Max Column Web Depth	60.0"
Max Rafter Web Depth	60.0"	Max Rafter Web Depth	60.0"
Exterior Column Elevation	8.0" Below Finished Floor	Exterior Column Elevation	8.0" Below Finished Floor

Roof Panel (8,125 sqft)

Type	BattenLok HS (w/o pencil ribs)	<u>Options</u>	
Thickness	N/A	SS Clip Type	High Fixed (Up to 6" Blkt. Insulation)
Width	16"	Thermal Blocks	5/8" Thick
Length	24	FM-4471 Roof Panel Anchorage	No
Color	S300 Spruce	UL90	Yes
Alspar Code	435R329	Eave Icing	No
Field (KSI)	50	Wide Tape	No
Value	N/A	Additional Hand Crimper	No
Warranty	Yes		
<u>Installer Information</u>		<u>Weathertightness Warranty</u>	
Type	Self-Drilling	Type	Standard
Head Finish	Long-Life	Term	20 Year
Length	Standard		
		<u>Snow Retention System</u>	
		Provide Snow Retention System	No

Note - Insulation not included unless specified on the Insulation page of this document.

IMPORTANT** The roof panel ordered requires a seaming tool for proper roof installation. Seaming tools must be leased from the panel manufacturer only. Failure to seam a panel properly or the use of a seamer other than one from the panel manufacturer will void the manufacturer's roof weathertightness warranties, if purchased, and can void all applicable roof panel finish warranties. It is the responsibility of the purchaser to contact the panel manufacturer to arrange rental of the seaming tools. The purchaser will be required to complete a rental agreement. Rental agreements should be submitted a minimum of 10 business days prior to the requested date of seaming tool delivery. All seaming tool rentals are invoiced separate of the material invoices. A deposit may be required prior to shipment of seaming tools. Contact your sales representative for further information.

Wall Panel (0 sqft)

Type	None	<u>Options</u>	
Thickness	N/A	Reverse Rolled	N/A
Width	N/A	Washers	N/A
Length	N/A	Concrete Notch	N/A
Color	N/A	Sealed Wall	No
Color Name	N/A	Eave Closure	No
Alspar Code	N/A	Rake Closure	No
Field (KSI)	N/A	Outside Metal EW Closures	N/A
Warranty	N/A	Foam Tape (If applicable)	No
Value	N/A		
<u>Installer Information</u>			
Type	N/A		
Head Finish	N/A		
Length	N/A		
Vendor	N/A		

Base Condition

Seaming	None	Closure	None
Trim	None		

Trim

WD Options

Trim Type	Gutters and Downspouts
Gutter Type	Southern
Gutter Type by Design	Northern Large
Additional Gutter Supports	No

WA Options

Trim Type	Rake Trim
Gutter Type	N/A
Gutter Type by Design	N/A
Additional Gutter Supports	N/A

SWB Options

Trim Type	Eave Trim
Gutter Type	N/A
Gutter Type by Design	N/A
Additional Gutter Supports	N/A

EWC Options

Trim Type	Rake Trim
Gutter Type	N/A
Gutter Type by Design	N/A
Additional Gutter Supports	N/A

New Building C - MULTI Continued...

Trim Continued...

Color Selections

Eave	S300 Standard TBD	Trim Profile	Signature
Eave Valspar Code	N/A	Downspout Type	Press Broke
Eave	S300 Standard TBD	All Trim Yield (KSI)	50
Eave Valspar Code	N/A	* Note - Gutters selected may differ from the Gutters designed.	
Corner	N/A		
Eave	S300 Standard TBD		
Eave Valspar Code	N/A		
Gutters	S300 Standard TBD		
Gutters Valspar Code	N/A		
Downspouts	S300 Standard TBD		
Downspouts Valspar Code	N/A		
Roof to Roof	N/A		
Roof to Wall	N/A		

New Building C - MULTI Continued...

Accessories

Downspouts

Elevation	SWD	Elbow	Yes
Bay	N/A	Trim	S300 Standard TBD
Quantity	4	Trim Valspar Code	N/A
Height	16'-2"	Distance From Left Steelline	0'-0"
		Distance From Left Column	0'-0"

Open Areas

Elevation	Full Height	Support Beam Included	Yes	Support Beam	
Bay	EWA	Use Flange Bracing	No	Type	Wide Flange
Width	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Height	101'-0"	Distance From Left Column	0'-0"	Deflection	L/240
Open For	Full	Shear Wall	No	Location	Behind Wall
Material Thickness	Studs	Column Bracing	N/A		
Material Weight	1'-2"	Base Type	N/A		
Distance to Face of Material	40.000 psf	Include Jamb Flash	No		
Distance to Support Beam	0'-6"	Flash Color	N/A		
Connection Spacing	0'-8"	Flash Valspar Code	N/A		
Installed in Future	4'-0"	Open for Wind	0.00 %		
	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		
Elevation	Full Height	Support Beam Included	Yes	Support Beam	
Bay	SWB	Use Flange Bracing	No	Type	Wide Flange
Width	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Height	80'-2"	Distance From Left Column	0'-0"	Deflection	L/240
Open For	Full	Shear Wall	No	Location	Behind Wall
Material Thickness	Studs	Column Bracing	N/A		
Material Weight	1'-2"	Base Type	N/A		
Distance to Face of Material	40.000 psf	Include Jamb Flash	No		
Distance to Support Beam	0'-6"	Flash Color	N/A		
Connection Spacing	0'-8"	Flash Valspar Code	N/A		
Installed in Future	4'-0"	Open for Wind	0.00 %		
	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		
Elevation	Full Height	Support Beam Included	Yes	Support Beam	
Bay	EWC	Use Flange Bracing	No	Type	Wide Flange
Width	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Height	101'-0"	Distance From Left Column	0'-0"	Deflection	L/240
Open For	Full	Shear Wall	No	Location	Behind Wall
Material Thickness	Studs	Column Bracing	N/A		
Material Weight	1'-2"	Base Type	N/A		
Distance to Face of Material	40.000 psf	Include Jamb Flash	No		
Distance to Support Beam	0'-6"	Flash Color	N/A		
Connection Spacing	0'-8"	Flash Valspar Code	N/A		
Installed in Future	4'-0"	Open for Wind	0.00 %		
	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		
Elevation	Full Height	Support Beam Included	Yes	Support Beam	
Bay	SWD	Use Flange Bracing	No	Type	Wide Flange
Width	1	Distance From Left Steelline	0'-0"	Flange Brace	No
Height	80'-2"	Distance From Left Column	0'-0"	Deflection	L/240
Open For	Full	Shear Wall	No	Location	Behind Wall
Material Thickness	Studs	Column Bracing	N/A		
Material Weight	1'-2"	Base Type	N/A		
Distance to Face of Material	40.000 psf	Include Jamb Flash	No		
Distance to Support Beam	0'-6"	Flash Color	N/A		
Connection Spacing	0'-8"	Flash Valspar Code	N/A		
Installed in Future	4'-0"	Open for Wind	0.00 %		
	N/A	Liner Panel To Remain	No Liner Found		
		Insulation To Remain	No		

Note - Support beam will be at max. height allowed by Manufacturer's design, unless otherwise noted.

Support Beams

Elevation	EWA	Beam Deflection	L/240
Bay	1	Connection Spacing	4'-0"
Top Column	6	Beam Height	12'-0"
Material Thickness	14.0"	Flange Brace	No
Material Weight	40.000 psf	Supported Material is in	No
		Steelline	

New Building C - MULTI Continued...

Accessories Continued...

evaluation	SWB	Beam Deflection	L/240
part Column	1	Connection Spacing	4'-0"
op Column	2	Beam Height	14'-0"
aterial Thickness	14.0"	Flange Brace	No
aterial Weight	40.000 psf	Supported Material is in	No
		Steelline	
evaluation	SWB	Beam Deflection	L/240
art Column	4	Connection Spacing	4'-0"
op Column	5	Beam Height	14'-0"
aterial Thickness	14.0"	Flange Brace	No
aterial Weight	40.000 psf	Supported Material is in	No
		Steelline	
evaluation	EWB	Beam Deflection	L/240
art Column	1	Connection Spacing	4'-0"
op Column	5	Beam Height	12'-0"
aterial Thickness	14.0"	Flange Brace	No
aterial Weight	40.000 psf	Supported Material is in	No
		Steelline	

Insulation

ilding Has Insulation	Yes
sulation By Metallic	No

Insulation Information

oof Insulation Type	Full Cavity Insulation
oof Insulation Thickness	3.50"
ivity Purlin Bracing Allowed?	Yes

New Building C - MULTI Continued...

Miscellaneous Adds

List		Weight Total	Price Total
Description	Folding Partition beams/tube column		
Quantity	3.00		
/ Metallic	Yes		
Note #	N/A		
Add to Freight	Yes		
Estimator's Initials	N/A		
Wires On	N/A		
Description	Roof panel & Trims - Porte Cache & Mech Cover		
Quantity	17.00		
/ Metallic	Yes		
Note #	N/A		
Add to Freight	Yes		
Estimator's Initials	N/A		
Wires On	N/A		
Total List Adds (\$)			

Notes

- Note: If project contains screw-down roof or wall panels, they may be up to 45'-0" in length (at Manufacturer's discretion) unless otherwise noted. If project contains standing seam panels, they may be up to 53'-0" in length (at Manufacturer's discretion) unless otherwise noted.
- Note: NOTICE: Uniform visual appearance of Galvalume® Plus coated panels cannot be guaranteed. The Galvalume® Plus coating is subject to variances in spangle from coil to coil which may result in a noticeable shade variation in installed panels. The Galvalume® Plus coating is also subject to differential weathering after panel installation. Panels may appear to be different shades due to this weathering characteristic. If uniform visual appearance is required, Manufacturer recommends that our prepainted Signature® 200 or Signature® 300 panels be used in lieu of Galvalume® Plus. Shade variations in panels manufactured from Galvalume® Plus coated material do not diminish the structural integrity of the product. These shade variations should be anticipated and are not a cause for rejection.
- Note: If soil profile other than (D), (4), (SD), (S4) is to be used, the Manufacturer requires a sealed letter or copy of a soils report from a registered design professional stating the soil type to be used in the design of the metal building.
- Note: Any in-plant inspection requirements must be noted on this document, and will be at the Buyer's expense.
- Note: Buyer acknowledges that, although minimum loads may be supplied automatically, it is Buyer's responsibility to determine the intended use of the Metal Building System ordered, its appropriateness for all loads to be encountered, including but not limited to, live load, wind load, snow/ice load, water load, collateral and auxiliary loads, as well as its appropriateness for drainage systems and compliance with the requirements of all governing code bodies, statutory and regulatory agencies.
- Note: All design information provided is preliminary, including but not limited to "Designed", "System Standard" and "Default" design criteria. The Manufacturer will not be responsible for conditions resulting from changes in the final design unless that specific requirement is noted on the Purchase Order.
- Note: Manufacturer's specifications, including welding standards and specifications, are applicable unless specifically described otherwise on this document. If plans, specifications, and/or Buyer's Purchase Order accompany this document, and there is a conflict between those documents and Manufacturer's standard specifications, the Manufacturer's standard specifications shall prevail unless specifically listed on this document. The words "See Attached" do not fulfill this reference requirement.
- Note: The complexity rating is derived from the geometry and accessories input into the builder system. The use of Miscellaneous Adds, Project Notes, or any other modifications can influence this rating. Manufacturer reserves the right to change this rating at any time without notification.
- Note: Anchor Rods are not supplied by Manufacturer unless noted specifically on this document. Embedment length is not designed by Manufacturer.
- Note: All Support Beams (spandrel beams) are designed and priced with the assumption that the beam is located at or within 2'-0" of the top of the open area material and that the open area does not extend above the eave line and/or roofline.
- Note: Buyer is responsible for determining the correct fastener length for use with the insulation used on the project. See the Help file or contact the Manufacturer for documents regarding the proper selection of fasteners, clips and thermal blocks.
- Note: Structural paint is intended as a primer. The primers supplied by the Manufacturer are not intended to provide the uniformity of appearance of a finish coat nor to provide extended protection if subjected to prolonged exposure. If immediate erection of steel is not possible, it must be protected from exposure to atmospheric and/or environmental conditions that may be detrimental to primer performance. These conditions would include, but not be limited to, prolonged exposure to ultra-violet light resulting in possible fading and or spotting or standing water resulting in spotting, peeling or localized surface oxidation. Gray Primer in particular will show rust spots/streaks due to imperfections in the application process and the properties associated with Gray Primers. Primer touch-up due to transit abrasions and/or scratching during loading and unloading and erection is to be expected. Rusting or abrasions on structural members is not subject to customer rejection or claim for touch up. Additional guidelines can be found in the MBMA Commentary, the AISC Code of Standard Practice and the Manufacturer's Standard Specifications.
- Note: Windows and Light Transmitting Panels supplied by the manufacturer may not meet the prescriptive requirements of the energy code. Other methods of compliance, if required, are assumed to have been used.
- Note: Research has shown that the in-place R-value for fiberglass roll insulation is greatly dependent upon field placement and drape techniques. The manufacturer is not responsible for achieving the in-place R-factors as required by the energy code for assemblies using fiberglass roll, even if it is supplied by the manufacturer.
- Note: The buyer confirms that the building is ordered properly to meet the following performance requirements:
a. Prescriptive requirements of the energy code.
b. Energy modeling assumptions of the building envelope.
- Note: Eave Struts, Endrafters and Header members are not designed to sustain transverse wind or seismic loading from masonry/other construction.
- Note: Any quoted delivery schedules are only approximations (Not Guarantees), are rendered as a convenience to the customer, and are subject to variations depending upon Manufacturer's shipment backlog at the time of order placement.
- Note: Steel framing by Manufacturer normally deflects vertically under snow load. All walls not by Manufacturer, attaching directly to Manufacturer's steel framing shall be attached with vertically slotted clips or equivalent (attachment not by Manufacturer) to avoid transferring vertical load to the stud walls, resulting in damage to the wall.
- Note: The maximum square foot capacity per truckload is 11,800 sq. ft. based on 20' panel length. These calculations can vary greatly depending on panel lengths and bundling requirements.
- | | | |
|--|---------------------------------------|---|
| <u>BattenLok HS Panel Qty. Per Bundle</u> | <u>BattenLok HS Max. Panel</u> | <u>BattenLok HS Approx. Panel Weight</u> |
| 18 panels/bundle / 1.46#/sf or 40#/20' | 30'-0" or call with job | 8,000# to 17,000#/truckload |
| 4 bundles wide & 3 bundles high | | |
| 12 bundles or 216 panels over 20' long | | |
| 24 bundles or 432 panels under 20' | | |
- Note: 4'-0" are minimum panel lengths that can be provided with current plant fabrication limitation. Panel length requirements less than 4'-0" must be field cut.
- Note: Normal crating will consist of 18 panels to the bundle with cardboard blocking, protective interleaf, steel banding and water proof paper covering.

- Note: Shipments from these locations will include panel, clips, fasteners, rake support, ridge flash, outside closures, eave plates, back-up plates and tape sealant.
- Note: BattenLok HS panel and accessories are F.O.B. from the closest of vendor's fabrication plants in Atwater, CA; Atlanta, GA; Rome, NY; Memphis, TN; Houston, TX; or Salt Lake City, UT.
- Note: The manufacturer will not guarantee any level of performance for air infiltration or air barrier performance. Furthermore, the manufacturer will not be responsible for any material or labor costs required to achieve any performance level of air infiltration for any wall or roof assembly or whole-building testing.
- Note: If roof purlin design, modification, or addition cannot satisfy the additional specified point load requirements, Manufacturer is providing two field located beams to support this loading. If a different quantity or specific beam configuration is required, please contact the Manufacturer for assistance.
- Note: Buyer is responsible for selecting the appropriate thermal blocks and clips for standing seam roofs for use with the insulation used on the project.
- Note: Only drawings noted for "Erector Installation" are to be utilized to set anchor rods or for installation of steel. Drawings labeled for "Permit" and/or "Approval" are not to be used for these purposes.

Project Summation

Object ID	FAYETTEVILLE SENIOR CENTER
Owner	N/A
Buyer P.O. Number	N/A
Buyer	METCON BUILDINGS
	INFRASTRUCTURE
Buyer Phone	N/A
Buyer Fax	N/A

Estimated Weight (lbs)	179,958.87
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Approved Factor (Good until 3/28/2019)	0.710000
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Weathertightness Warranty	Included
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Estimated Freight*	Included
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Estimated Tax (0.00 %)	Not Included
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Applicable tax will be added at the time of invoice.

Contract Total (89.98 Tons, ECF: 7)	\$259,819.63
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NOTES

1. All prices quoted are valid for 14 days from the date signed below
2. The terms and conditions applicable to this are:
 - a. Uniform Terms and Conditions
 - b. General Conditions of Contract
 - c. If buyer is a Metallic Building Company Builder, Metallic Building Company Builder Agreement all of which, as applicable, are incorporated by reference herein.
3. Payment will be in accordance with terms (downpayment, COD or other terms) as established by Metallic Building Company Credit Department
4. This quotation is not a contract, but an offer to sell, which can be accepted only by the Metallic Building Company's Purchase Order or Quotation/Contract form.

Excluding Applicable tax.

Final Freight and Tax charges will be based on rates in effect at time of Shipment.

Alternates

Exclusions

Metallic Building Company Representative

Title

Date

For Office use Only: 134.25, 12.92, 2796, 2.60, 6.60, 280, 8232.00, 3133.87, 3138.00, 0.0000, 719, 0.0000, 78238.07, 0.00, 0.7936, 84.90, 2.1196

Bid Proposal Forms
City of Fayetteville – Senior Center West
BID PACKAGE # AND TITLE: BP132000E Erection Only
BID PROPOSAL OF: Jade Builders
 (Hereinafter call "BIDDER") (Name of Firm)

A(N) Individual organized and existing under the laws of the State of _____
 (Corporation, Partnership or Individual)

BIDDER'S North Carolina STATE LICENSE NUMBER: _____

BASE BID

The undersigned agrees to Erect a Complete Metal Building Package, as described in the Contract Documents, Addenda, and Bid Manual. Please **attach qualifications and clarifications** to this form for review. Pricing, will be held for 45 days from receipt of pricing, is to be provided as follows:

1. Lump Sum for. One hundred forty-five Thousand & no/100 Dollars,
 (\$ 145,000.00).

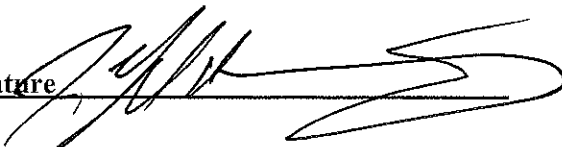
Show amount in both words and figures, in case of discrepancy, the amount shown in words shall govern.

The Bidder acknowledges that he/she has read and familiarized him or herself with the Minority, Woman, and Small Business Enterprise Program, and further agrees to fully incorporate and participate with this program. The Bidder has also completed and attached to this bid proposal, the required forms entitled:

AFFIDAVIT B-- Intent to Perform Contract with Own Workforce

The Bidder acknowledges receipt of the following Addenda issued by the Construction Manager:

Addendum No. <u>1</u>	Dated: <u>3/6</u>
Addendum No. <u>2</u>	Dated: <u>3/8</u>
Addendum No. <u>3</u>	Dated: <u>3/13</u>
Addendum No. _____	Dated: _____

Signature

Date:
3/13/19

 Initial Here JM

CMR 00 41 00

Page 1 of 2

BASE BID

The undersigned agrees to perform the entire Scope of Work for this Bid package, as described in the Contract Documents, Addenda, and Bid Manual. Pricing is to be provided as follows:

1. Lump Sum Bid:
One hundred forty-five thousand and no cents - Dollars,
(\$ 145,000.00).

Show amount in both words and figures, in case of discrepancy, the amount shown in words shall govern.

All North Carolina State Sales and Use Taxes or Local Sales and Use Taxes are included in the above Base Bid and Alternates (including taxes on purchased or rental of tools and equipment). Bidder agrees that this bid will remain good and may not be withdrawn for a period of ninety (90) days after receipt date of Bid Proposal.

UNIT PRICES & ALLOWANCES

The Bid Packages that are affected by the following Unit Prices have been identified. Provide the unit cost for the following items as it pertains to the work in this contract. Prices are to include all direct cost of the work, taxes, overhead, profit, supervision, equipment, sub-subcontracts, materials, labor, etc. Prices shall remain in effect for the entire duration of the project. Unit prices will be used as a basis for adjustment of the contract total whether work is added or deducted. A unit price must be provided in the appropriate space on the Bid Proposal Form for all unit prices corresponding to your bid package.

Lump-sum and unit prices allowances are listed below. Construction allowances, if required, are included Bid Packages for each applicable trade package.

UNIT PRICE No. 1: N/A

ALLOWANCE No. 1: N/A

BID PACKAGE 132000E
PRE-ENGINEERED METAL BUILDING ERECTION ONLY
(Scope of Work)

The Scope of Work shall include the installation, complete, of **Pre-Engineered Metal Building Erection Only**.

DESCRIPTION OF SCOPE INCLUSIONS

The following is non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All Contract Requirements

B. BONDING REQUIREMENTS:

No Bonding Requirements for this Scope of Work.

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program. Notifications will be sent when submittals are reviewed, it is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal.

- i. Samples – Descriptions of samples shall be uploaded to the site for record purposes. "Hard" samples are still required per the plans/specifications.

Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, at the time of submittals, of any deviations from the Contract Documents. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is written acceptance of the specific deviations. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule. Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration.

D. STANDARD SCOPE INCLUSIONS:

Initial 

- a. Subcontractor shall furnish, install, maintain, and remove (upon project completion) all temporary safety barriers and/or signage use in completing their work.
13. All unloading, off-site storage and warehousing, deliveries to jobsite, uncrating, distribution of trash and packing material to dumpsters (dumpsters provided by Construction Manager) is included.
14. Subcontractor shall provide all certifications, licenses and fees per all City and State requirements for a complete supply and installation of the PEMB scope of work.
15. Touchup painting of factory finishes is included upon completion of Work

E. **PROJECT SPECIFIC SCOPE REQUIRMENTS:**

1. Erect a complete scope of work for the **Pre-Engineered Metal Buildings, Insulation, Structural steel & Erection/Install of all** as indicated on the Contract documents including providing all final assemblies, anchors, fasteners, insulation, trim, doors, hardware, etc...
2. All Field measurements and verification are included. Subcontractor shall coordinate with Construction Manager, in writing, at least seven (7) days before erection of materials, of any field discrepancies found during field measurement.
3. Supply and provide all hoisting, trucking, etc. to complete the PEMB scope of work.
4. Install all PEMB insulation for roofing and walls.
5. Install all PEMB standing seam roofing including rental equipment.
6. Install all structural steel and decking to make a complete building on depicted on drawings. **The front canopy/porte cache is excluded from this scope of work.**
7. Install roof hatch, if required. Curb-pipe boots, steel frame support, roof curds as necessary.
8. Install all coping and metal panels/trim at the parapet walls as required per plans and specs.
9. Install all roof curbs for HVAC, roof hatch, vents and all roof penetrations as required.
10. Coordinate placement of anchor bolts required to complete the PEMB scope of work. Coordinate your scope of work with templates and layout with the concrete subcontractor as required for proper layout.
11. Properly store, protect any and all materials as required. Pressure wash and clean all steel and materials if required prior to erection. All materials are to be cleaned before payment will be made.
12. Install all metal gutters and downspouts.
13. Install all Prefinished fascia and trim.
14. Install bent flashing for brick and siding transition. Color by Architect

Initial 

Attach AFFIDAVIT B to the Bid

State of North Carolina – AFFIDAVIT B-- Intent to Perform Contract with Own Workforce.

 County of Cumberland

Affidavit of _____

Jada Builders
 (Name of Bidder)

I hereby certify that it is our intent to perform 100% of the work required for the

City of Fayetteville Senior Center West
 (Name of Project)

contract.

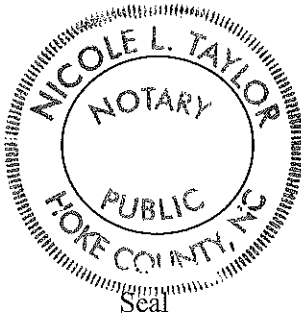
 In making this certification, the Bidder states that the Bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform **all elements of the work** on this project with his/her own current work forces; and

The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement.

The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.

 Date: 3-13-19 Name of Authorized Officer: JEFF MANNING

 Signature: [Signature]

 Title: Owner

 State of North Carolina, County of Robeson

 Subscribed and sworn to before me this 13 day of March 2019

 Notary Public [Signature]

 My commission expires 1-16-23

Fayetteville Senior Center West

City of Fayetteville

Fayetteville, NC



Probable Balance of GMP Summary by Bid Packages

March 19, 2019

	Bid Package Description	Balance of Work 3-19-19	18,784 sqft Cost/GSF	Percent of Total
(BP015000)	General Trades	\$77,000	\$4.10	1.3%
(BP033000)	Cast-in-Place Concrete	\$204,628	\$10.89	3.5%
(BP042000)	Unit Masonry	\$59,880	\$3.19	1.0%
(BP051000)	Structural Steel	\$79,500	\$4.23	1.3%
(BP061000)	Rough Carpentry	\$0	\$0.00	0.0%
(BP064000)	Architectural Woodwork	\$63,875	\$3.40	1.1%
(BP071000)	Insulation	\$40,000	\$2.13	0.7%
(BP074600)	Siding	\$79,100	\$4.21	1.3%
(BP079000)	Caulking, Joint Sealants & Air Barriers	\$10,000	\$0.53	0.2%
(BP075100)	Roofing Turnkey	\$16,500	\$0.88	0.3%
(BP081000)	Doors and Frames	\$86,300	\$4.59	1.5%
(BP084000)	Entrances, Storefronts, and Curtain Walls	\$67,825	\$3.61	1.1%
(BP092000)	Plaster and Gypsum Board	\$418,136	\$22.26	7.1%
(BP093000)	Tiling	\$60,014	\$3.19	1.0%
(BP095000)	Ceilings	\$55,410	\$2.95	0.9%
(BP096000)	Flooring	\$70,192	\$3.74	1.2%
(BP099100)	Painting	\$53,537	\$2.85	0.9%
(BP100000)	Specialties	\$36,475	\$1.94	0.6%
(BP101400)	Signage	\$12,500	\$0.67	0.2%
(BP102200)	Partitions	\$68,835	\$3.66	1.2%
(BP105000)	Storage Specialties	\$9,000	\$0.48	0.2%
(BP120000)	Window Treatments	\$10,200	\$0.54	0.2%
(BP130000)	PEMB - Erection (Bids Received - Jade Construction Bid Form Attached)		\$0.00	0.0%
(BP130000)	PEMB - Furnish (Bids Received - Metallic Metal Buildings Bid Form Attached)		\$0.00	0.0%
(BP131100)	Swimming Pools	\$367,500	\$19.56	6.2%
(BP210000)	Fire Suppression	\$84,528	\$4.50	1.4%
(BP220000)	Plumbing	\$309,772	\$16.49	5.2%
(BP230000)	Heating, Ventilating, and Air Conditioning (HVAC)	\$695,008	\$37.00	11.8%
(BP260000)	Electrical	\$619,872	\$33.00	10.5%
(BP310000)	Earthwork	\$1,303,973	\$69.42	22.1%
	Subtotal:	\$4,959,560	\$264.03	84.0%
		\$0	\$0.00	0.0%
0.960%	Liability Insurance	\$56,657	\$3.02	1.0%
0.250%	Builders Risk	\$14,754	\$0.79	0.3%
0.000%	Building Permit (By Owner)	\$0	\$0.00	0.0%
0.000%	Design Contingency	\$0	\$0.00	0.0%
3.000%	CM Contingency	\$177,052	\$9.43	3.0%
1.040%	Bond/Corp Guarantee	\$61,378	\$3.27	1.0%
	Construction Cost Subtotal	\$5,269,401	\$280.53	89.3%
12.000%	Metcon Fee, General Conditions & Overhead	\$632,328	\$33.66	10.7%
	Construction Cost Total	\$5,901,728.86	\$314.19	100.0%
0.000%	Escalation	\$0	\$0.00	0.0%
	Anticipated Construction Cost Total	\$5,901,728.86	\$314.19	100.0%