Project:

A New Gymnasium at
Zion Chapel High School for the
Coffee County Board of Education
Elba, Alabama

MCKEE PROJECT NO. 19.130
ALABAMA DIVISION OF CONSTRUCTION MANAGEMENT NO. 2020266

The following changes and/or substitutions to the plans and specifications are hereby made a part of same and are incorporated in full force as part of the contract.

Bidders shall acknowledge receipt of this Addendum in writing on his Proposal Form.

A3.1 GENERAL MODIFICATIONS:

A. Refer to the attached Unit Price Item Legend Sheet [Revised 7.8.20], herein.

NOTE: This sheet must be included with the Proposal Form in the contractor’s sealed envelope.

A3.2 SPECIFICATION MODIFICATIONS:

A. Refer to Section 01010, Scope of the Work [Revised 6.23.20], herein.
B. Refer to Section 01011, Contingency [Revised 7.10.20], herein.
C. Refer to Section 07411, Metal Wall Panels [Revised 7.8.20], herein.
D. Refer to Section 08665, Ticket Window Accessories, herein.
E. Refer to Section 08700, Finish Hardware; Schedule, pages 7-17 [Revised 6.30.20], herein.
F. Refer to Section 10500, Lockers [Revised 7.10.20], herein.
G. Refer to Section 10800, Toilet Accessories [Revised 7.10.20], herein.
H. DELETE Section 12661, Telescopic Bleachers, in its entirety.
I. Refer to Section 13120, Pre-Engineered Metal Building [Revised 7.8.20], herein.
J. The following manufactures are hereby approved subject to the plans and specifications:

1. Section 09551, Wood Gymnasium Flooring—Aacer Sports | Peshtigo WI | 877.582.1181
2. Section 08511, Aluminum Windows-Horizontal Sliding – C.R. Laurence | Pittsburgh PA | 800.421.6144

A3.3 DRAWING MODIFICATIONS:

A. See the following drawings as follows:

1. Sheet C1, C2, C3, C4, C5, C6, and C7, [Revised 7.10.20], herein.

A3.4 CLARIFICATIONS & RESPONSES:

A. Base Bid Sitework shall be as indicated on Sheet C4.
B. Alternate 1 Sitework shall be as indicated on Sheet C5.
C. Owner shall provide Scoreboard(s). Contractor shall install all owner provided scoreboard(s). See drawings for quantities.
D. Ceilings located at Rooms 110, 108A, 106, 107, 108B, 109, 103A, 128, 124, 123, 125 shall be lay-in acoustical ceilings with Vinyl Covered Panels per specification Section 09510, Acoustical Ceilings. Ceiling height at these areas shall be 9'-4" A.F.F.

E. Ceiling located at Door 120 and 111 shall be lay-in acoustical ceilings with Vinyl Covered Panels per specification Section 09510, Acoustical Ceilings. Provide and install CMU lintels at 10'-0" above finished floor. Lay-in ceiling at alcoves to be at 10'-4" above finished floor. Detail to be included in forthcoming addendum.

F. Finish hardware cylinders to be “Best Access Systems.”

END OF ADDENDUM
UNIT PRICE ITEM LEGEND

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Legal Name of Bidder ______________________________________________________________
Mailing Address ________________________________________________________________

The General Contractor shall include the Unit Prices below in their Base Bid Proposal. The quantities assigned below are above and beyond the amounts required to complete the work required by the bid documents. This Unit Price Item Legend shall be submitted with the sealed Proposal.

SCHEDULE OF UNIT PRICES:

UNIT PRICES: The Unit Prices below establishes Unit Prices so that the Owner can delete/add quantities from the Contract(s) required.

UNIT PRICE #1: The Contractor shall include in his Base Bid proposal the cost for an Additional 100 Cubic Yards Measured In Place (CYMIP) of removal and off-site disposal of unsuitable soil and furnishing, placing and compacting of acceptable fill material from below the finished subgrade and tested to meet requirements specified for the affected area, in accordance with the Geotechnical Report and Section 02200 “Earthwork.”

100 CYMIP @ ______/CYMIP = $____________________ Included in Base Bid

UNIT PRICE #2: The Contractor shall include in his Base Bid proposal the cost for furnishing and installing an Additional 100 Square Yards of Mirafi 140N non-woven Geotextile stabilization fabric or Approved Equal.

100 SY @ ______/SY = $____________________ Included in Base Bid

UNIT PRICE #3: The Contractor shall include in his Base Bid proposal the cost for furnishing and installing an Additional 100 Cubic Yards Measured In Place (CYMIP) of ALDOT #2 Stone.

100 CYMIP @ ______/CYMIP = $____________________ Included in Base Bid

UNIT PRICE #4: The Contractor shall include in his Base Bid proposal the cost for an Additional 20 Cubic Yards Measured In Place (CYMIP) of Excavation and Off-Site disposal of unsuitable soil and furnishing and installing Lean Concrete in accordance with specifications, all as directed.

20 CYMIP @ ______ per CYMIP = $______________ Included in Base Bid
SECTION 01010 - SCOPE OF THE WORK [Revised 6.23.20]

PART 1 – GENERAL

RELATED DOCUMENTS AND GENERAL INFORMATION:

Drawings and general provisions of the Contract including General and Supplementary Conditions and other Division 1 specification sections apply to the work of this section.

SUMMARY:

This Section includes the following:

1. Type of the Contract.
3. Project Work Identification.
4. Owner-furnished products.
5. Supervision.
6. Contractor Use of premises.
7. Work Under Other Contracts.
8. Building and Site Construction.
12. Protection of Work in Place.
13. Work restrictions.
14. Owner’s occupancy requirements.
15. Specification formats and conventions.

Related Sections include the following:

1. Division 1 Section 01500 “Temporary Facilities and Controls” for limitations and procedures governing temporary use of Owner’s facilities.

TYPE OF CONTRACT:

1. Construction Contract (ABC Form C-5, August 2001).

DIVISION OF CONSTRUCTION MANAGEMENT USER FEES:


1. The Contractor shall include in his Base Bid Proposal all “Basic Permit Fee”.
2. Do not include the “Plan Review Fee” or the “Contract Administration Fee” in your Proposal.
3. The Contractor shall be responsible for all “Re-Inspection Fees” per 355-16-1-.03 “Fees Required”, (5) “Additional Fees”, (b).

PROJECT / WORK IDENTIFICATION:

General: Project name is as indicated in the Advertisement For Bids and as shown on the Contract Documents prepared by McKee & Associates, 631 S. Hull Street Montgomery, Alabama 36104.

Contract Documents: Indicate the work of the Contract and related requirements and conditions that have an impact on the project. Related requirements and conditions that are indicated on the Contract Documents include, but are not limited to the following:

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1. Existing site conditions and restrictions on use of the site including ingress and egress to the site.
2. Grading operations at the site.
3. The Contractor shall be responsible to secure the site during the execution of the work and provide proof of insurance including but not limited to General Liability, W/C, Auto, Equipment, Etc.

Summary by References: Work of the Contract can be summarized by references to the Contract, General Conditions, Supplementary Conditions, the Project Manual, Technical Specification Sections, Drawings, Addenda and modifications to the Contract Documents issued subsequent to the initial printing of this Project Manual and the Drawings, and including but not necessarily limited to, printed material referenced by any of the above. It is recognized that the Work of the Contract is also unavoidably affected or influenced by governing regulations, natural phenomenon including weather conditions, and other forces outside the contract documents.

OWNER FURNISHED PRODUCTS:

1. Owner to furnish and install appliances at Concession.
2. Owner to furnish and install Telescopic Bleachers.
3. Owner to furnish and install Batting Cage netting systems, anchorage, supports, and associated raceways.

SUPERVISION:

Supervision: The Contractor shall provide adequate supervision of the project to ensure proper supervision for all work.

CONTRACTOR USE OF PREMISES:

General: During the entire cleanup period the Contractor shall have the exclusive use of the premises for cleanup operations, including full use of the site as shown on the Drawings.

Limitations of exclusive use of the site:

a. Confine operations at the site to the areas permitted under the Contract. Portions of the site beyond areas on which work is indicated are not to be disturbed. Conform to applicable rules and regulations affecting the work while engaged in project performance. See site plan for ingress and egress to the site, or if not indicated, same shall be as designated by the Architect.

b. Keep existing public roads, driveways and entrances serving the premises clear and available at all times. Do not use these areas for parking or storage of materials. Remove dirt, mud, debris, etc., from site, sidewalks, streets, and public right-of-way as it occurs.

c. Do not unreasonably encumber the site with materials or equipment. Confine stockpiling of materials and location of storage sheds and or designated storage areas as indicated.

d. Lock automotive type vehicles, such as passenger cars and trucks and other mechanized or motorized construction equipment, when parked and unattended, so as to prevent unauthorized use. Do not leave such vehicles or equipment unattended with the motor running or the ignition key in place.

e. The Owner, and their representatives, the Architect and their Consultants, as well as authorities having jurisdiction will require site accessibility for inspections, observations, and perhaps other purposes, related to the planned new construction. All Contractors shall assist in such accessibility, to at least the point of providing and maintaining accessible dry paths to work in progress.

f. Furnish and install by contractor temporary barricades, fencing, etc., as indicated or otherwise
required, to restrict pedestrian and vehicular traffic from construction operations, including in part, Owner's staff, the public, students, children, and residents of the adjacent residential neighborhoods.

g. Construction operations shall not affect in any manner, the on-going operations of the Owner, immediately adjacent facilities, adjacent property owners or businesses, or others. Refer to Division 1 Section "Special Conditions" for additional information and requirements regarding coordination with Owner's activities, etc.

h. Construction equipment shall not come in contact with or swing over existing facilities to remain, public areas, occupied buildings, right-of-ways, etc., which are to remain.

i. All contractors and their employees shall limit any discussion of the Work of this project to the Owner's representatives named in the front of this Project Manual, Consultants employed, inspecting authorities with jurisdiction, and the Architect. In no instance shall this project be discussed with others, except as may otherwise be indicated herein.

j. Parking on-site, if any, shall be limited to the "staging areas" indicated on the Drawings, or if not indicated, as mutually agreed between the Architect and Contractor at the Pre-Construction Conference.

k. Smoking or other use of tobacco products shall not be permitted within the structure of the Building, Owner's facilities or on roofs.

l. The use or presence of alcohol and/or other debilitating substances shall not be permitted in the construction of the building and or on the project site.

m. Firearms and/or other weapons shall not be permitted on the project site.

n. The Contractor shall furnish necessary temporary toilets for all work forces on the job site.

PART 2 - SCOPE OF THE WORK:

The Scope of the Work of the Contract is meant to be viewed as a successor to the General Special Conditions of the Contract. Should any discrepancy or ambiguity be noted, the Scope of the Work of the Contract shall apply and the General Special Conditions of the Contract shall defer to Scope of the Work of the Contract Documents. The scope of the work shall be taken in its entirety by all contractors. In signing the contract all contractors have read and understand that the Scope of the Work and the General Special Conditions are taken in their entirety.

The term "Design Consultant" shall be construed to mean "Architect".

The terms "Owner" shall mean “Coffee County Schools”.

WORK UNDER OTHER CONTRACTS

General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract. Coordinate the Work of this Contract with work performed under separate contracts.

Concurrent Work: Owner will award separate contract(s) for the following construction operations at the Project site. Those operations will be conducted simultaneously with work under this Contract.

1. Work done by others or by Owner.
   a. Any items noted N.I.C.
   b. Construction Testing as defined in Section 01400 Quality Requirements.

BUILDING AND SITE CONSTRUCTION:

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1. The Contractor shall maintain the entire site, provide dust control and keep the streets clean at all
times and or as directed by the Architect. The Contractor shall call for and be responsible for the
locating of all utilities prior to start of work. Use extreme care when working in close proximity to
the existing water lines to prevent movement and damage to the water lines.

2. The Contractor shall install and or replace all fencing including furnish and install all temporary
fencing as required for all work including safety barriers, signs, traffic directional signals,
temporary stripping, flagman, temporary road plates and any temporary roads around any
obstruction and or work being constructed. The Contractor shall make all provisions to keep the
public and or temporary access roads open during the duration of the work.

3. The Contractor shall maintain & level, all temporary roads and temporary lay down and storage
areas using same stone base material. Roads must have no potholes, dips, or rises and provide
access to and from the site and other locations on site. The Contractor shall maintain the
temporary roads used to move material on the site. Temporary roads are existing and the
Contractor shall maintain these temporary roads throughout the duration of construction activity
while Contractor is onsite.

GENERAL ISSUES:

1. The Contractor shall be responsible for their own on-site safety requirements within the site per
OSHA regulations.

2. Only an approved company owned and insured vehicle shall be allowed on to the construction
site. Vehicles shall be clearly marked and identified with the company logo and or name.

TEMPORARY ELECTRICAL POWER AND JOBSITE UTILITIES:

1. The Contractor is responsible for the all costs associated with temporary electrical requirements
for performance of the work. The Contractor shall be responsible for the all costs associated with
temporary water required for the performance of the work. The Contractor is responsible for all
other utility costs as required for the performance of the work.

SITE SECURITY / INSURANCE REQUIREMENTS:

1. The Contractor shall have care custody and control of the site. Contractor shall be responsible for
the replacement of their material, equipment and any loss of such. Contractor shall be
responsible for securing all material and equipment. If there is a loss and or damage of material
and equipment, that loss shall go against the Contractor’s insurance coverage.

PROTECTION OF WORK IN PLACE:

1. The Contractor shall protect all completed work and any rework shall be the responsibility of the
contractor at no additional cost to the owner.

WORK RESTRICTIONS

Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless
permitted under the following conditions and then only after arranging to provide temporary utility services
according to requirements indicated:

1. Notify Architect and Owner not less than two days in advance of the proposed utility interruptions.

2. Do not proceed with utility interruptions without Architect’s and Owner’s written permission.

Nonsmoking Building: Smoking and smokeless tobacco will not be permitted within the new construction
after floor slabs are poured.

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OWNER'S OCCUPANCY REQUIREMENTS

Owner Occupancy: Owner will occupy adjacent parking lots during entire construction period. Cooperate with Owner during construction operations adjacent to or near the existing building and parking to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits, unless otherwise indicated.

Maintain access to existing walkways and other adjacent occupied or used facilities. Do not close or obstruct walkways or other occupied or used facilities without written permission from Owner and authorities having jurisdiction. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.

Owner Occupancy of Completed Areas of Construction: Owner reserves the right to place and install equipment in completed areas of building, before Substantial Completion, provided such does not interfere with completion of the Work. Such placement of equipment shall not constitute acceptance of the total Work.

SPECIFICATION FORMATS AND CONVENTIONS

Specification Format: The Specifications are organized into Divisions and Sections using the 16-division format numbering system.

1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents.

Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Abbreviated Language: Language used in the Specifications another Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.

2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.

a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

END OF SECTION
SECTION 01011 – CONTINGENCY ALLOWANCE [Revised 7.10.20]

The General Contractor shall include in his bid proposal the following sums:

1. **One Hundred Fifty Thousand Dollars** ($150,000.00) as a contingency to cover unforeseen conditions or minor changes that are necessary to correct or supplement the work as detailed in the Contract Documents.
2. **Ten Thousand Dollars** ($10,000.00) as a contingency to cover costs for Logo at flooring at Gym Floor 108.
3. **Ten Thousand Dollars** ($10,000.00) as a contingency to cover costs for Exterior Signage, Letters and Logo.
4. **Twenty Thousand Dollars** ($20,000.00) as a contingency to cover costs for the purchase and installation of intercom equipment.
5. **Five Thousand Dollars** ($5,000.00) as a contingency to cover costs for the purchase and installation of door access control equipment.

The Contractor shall include in his bid proposal all costs of office, job supervision, overhead, profit, and bond on this Contingency Allowance, because no such costs will be paid to Contractor for work performed under this Contingency Allowance. Only the direct costs of performing work under this provision shall be paid under and charged against the Contingency Allowance; such cost includes costs of materials and delivery, installation labor, payroll taxes and insurance, equipment expense, and the cost of subcontracted work (subcontractor’s cost may include a maximum of 15% mark-up for overhead and profit).

After unknown conditions are identified and examined and the scope of work and method of repair determined, or request for a proposal to cover additional work has been issued by the Owner, the Contractor shall submit a proposal for such work to the Architect for the Owner’s approval. If the Owner approves of such proposal, he will issue written authorization to the Contractor to perform the work and charge the related costs to the Contingency Allowance. At the Owner’s option, work performed under this provision may be ordered done on a time and material basis, in which case, the Contractor shall keep accurate records of all time and materials used and submit such records to the Architect for his approval at the end of each day’s work.

An accounting of the costs charged against this Contingency Allowance shall be mutually maintained by the Contractor, Architect, and Owner throughout the course of the project. Any of this Contingency Allowance not spent shall be credited to the Owner by Change Order at close out of the project, refer to Contingency Allowance Form attached to this Section.

Provide for payment.

The Contractor shall include a line item in the Schedule of Values entitled “Contingency Allowance”. The estimated value of work completed pursuant to fully executed Contingency Allowance Authorizations may be included in the Contractor’s monthly Applications for Payment. Payments under this Contingency Allowance shall not exceed the net, total of fully executed Contingency Allowance Authorizations.
Form to be filled in its entirety.

To: McKee & Associates, Architects
From:___________________________

Project: __________________________

Project Number __________________

Building Commission Number:______________________

Date:___________________________

Authorization Number: ______________________________


In accordance with Specification Section 01011 – CONTINGENCY ALLOWANCE, the Contractor __________ is hereby authorized to proceed with the changes in Work as are described below and is to be paid for the performance of these changes as provided in Specification Section 01011. This Authorization shall become effective when it is signed by the Contractor and the Owner’s representative and it is understood and agreed that the amount(s) stipulated below constitute full compensation for these changes in Work.

TOTAL AMOUNT OF THIS AUTHORIZATION $ 

ORIGINAL AMOUNT OF THE CONTINGENCY ALLOWANCE $ 

NET TOTAL OF PREVIOUS AUTHORIZATIONS $ 

PREVIOUS REMAINING CONTINGENCY ALLOWANCE $ 

TOTAL AMOUNT OF THIS AUTHORIZATION $ 

CONTINGENCY ALLOWANCE REMAINING AFTER THIS CONTINGENCY $ 

Recommended By: Architect

Authorized By: Owner

Accepted By: Contractor

END OF SECTION
SECTION 07411 - METAL WALL PANELS [Revised 7.8.20]

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 Specification sections apply to work of this section.

DESCRIPTION OF WORK:

Extent of each type of preformed wall panels/siding is indicated on the drawings and by provisions of this section. Preformed wall panels/siding is hereby defined to include panels which are structurally capable of spanning between supports spaced as indicated.

Types of materials required include the following:

1. Exterior Wall Panel
2. Interior Wall Panel
3. Workmanship
4. Inspection of Surfaces
5. Protection
6. Delivery, Samples and Shop Drawings

QUALITY ASSURANCE:

Performance Test Standards: Provide preformed panel systems which have been pretested and certified by manufacturer to provide specified resistance to air and water infiltration and structural deflection and failure when installed as indicated and when tested in accordance with AAMA 501, "Methods of Test for Metal Curtain Walls".

Field Measurements: Where possible, prior to fabrication of prefabricated panels, take field measurements of structure or substrates to receive panel system. Allow for trimming panel units where final dimensions cannot be established prior to fabrication.

SUBMITTALS:

Product Data: Submit manufacturer’s product specifications, standard details, certified product test results, installation instructions and general recommendations, as applicable to materials and finishes for each component and for total system of preformed panels.

Samples: Submit 2 samples 12" square, of each exposed finish material.

Shop Drawings: Submit small-scale layouts of panels, and large-scale details of edge conditions, joints, corners, custom profiles, supports, anchorages, trim, flashings, closures, and special details. Distinguish between factory and field assembly work.

PART 2 - PRODUCTS

MANUFACTURER:

Manufacturer: The following manufacturers’ products have been used to establish minimum standard for materials, workmanship and function:

1. American Buildings Company/A Nucor Company; (Basis of Design and Quality); www.americanbuildings.com; 1150 State Docks Road, Eufaula, Alabama 36027; Phone: 334.687.2032.
2. MBCI Manufacturing; [www.mbcicom](http://www.mbcicom); 2280 Monier Avenue, Lithia Springs, Georgia, 30122; Phone: 844.2506 or 770.729.4772.


Equal products of other manufacturers may be used in the work, provided such products have been approved by the Architect, not less than Ten (10) days prior to scheduled bid opening.

MATERIALS:

A. EXTERIOR PANELS:


   a. The panel shall have a configuration consisting of 1” interlocking ribs. The interlocking ribs are designed to conceal the panel fasteners. The panel shall provide a net coverage of 12” in width. Panel shall be smooth finish.

   b. Panel shall conform to the following:

      1. Panel material as specified shall be 24 gage 50,000 psi (Select one of the following)
         a) G90 Zinc-coated (galvanized)
         b) AZ50 aluminum-zinc alloy-coated steel
         c) 0.032 Aluminum (Regal White Only)

   c. Fasteners for Soffit Liner Wall Panels (SLP):

      1. Shall be manufacturer's fastener with hex washer head, cadmium or zinc plated.
      2. Shall be assembled with an EPDM washer.
      3. The fasteners shall be color coordinated with a premium coating system which protects against corrosion and weathering.

2. Finish/Color:

   a. Finish shall be Smartkote Kynar 500® finish.
   b. Provide all trims, fasteners, sealants to match selected colors.
   c. Color of the panels shall be selected from manufacturer's Standard Color pallet.

1. Flush-Profile, Concealed Fastener Metal Wall Panels: Structural metal panels consisting of formed metal sheet with vertical panel edges and flat pan, with flush joints between panels, field assembled with nested lapped edges, and attached to supports using concealed fasteners.

   a. Basis of Design: [MBCI, FW-120-0 Panel](#).

      1) Aluminum-Zinc Alloy-Coated Steel Sheet: ASTM A792/A792M, structural quality, Grade 50, Coating Class AZ50 (Grade 340, Coating Class AZM150), prepainted by the coil-coating process per ASTM A755/A755M.
      2) Nominal Thickness: 24 gauge (Standard) coated thickness, with smooth surface.
      3) Exterior Finish: MBCI, Signature 300. Fluoropolymer Two-Coat System: 0.2 – 0.3 mil primer with 0.7 - 0.8 mil 70 percent PVDF fluoropolymer color coat, AAMA 621, meeting solar reflectance index requirements.
         i. Color: As selected by Architect from manufacturer's standard colors.
      4) Panel Width: 12 inches (305 mm).
      5) Panel Thickness: 1-1/2 inch (38 mm).
B. INTERIOR PANELS:

   a. The panel shall have major ribs 1 ¼" high. Spaces 12" on center for an even shadowed appearance. The panels are to be reinforced between the ribs for added strength. Each panel shall provide 36" net coverage in width.
   
   b. Panels shall conform to one of the following:
      
      I. Panel material as specified shall be 24 gage zinc-coated(galvanized) steel, coating designation G90, conforming to the requirements of ASTM A 653, Grade 80. Minimum yield strength shall be 80,000 psi.
      
      c. Fasteners for Long Span III (L3P) Wall Panels:
         
         I. Shall be manufacturer’s fastener with hex washer head, cadmium or zinc plated.
         II. Shall be assembled with an EPDM washer.
         III. The fasteners shall be color coordinated with a premium coating system which protects against corrosion and weathering.
      
2. Finish/Color:
   a. Finish shall be Smartkote Kynar 500® finish.
   b. Provide all trims, fasteners, sealants to match selected colors.
   c. Color of the panels shall be selected from manufactures Standard Color pallet.

METAL FINISHES:

General: Apply coating either before or after forming and fabricating panels, as required by coating process and as required for maximum coating performance capability.

Protect coating promptly after application and cure, by application of strippable film or removable adhesive cover, and retain until installation has been completed.

Durability: Provide coating which has been field tested under normal range of weathering conditions for minimum of 20 years without significant peel, blister, flake, chip, crack or check in finish, and without chalking in excess of 8 (ASTM D 659), and without fading in excess of 5 NBS units.

Color Finish on All Trim and All Wall Panels: Panels shall have a factory color finish on the exposed side. The exposed finish shall consist of a 70% KYNAR 500 resin base coating applied to a cleaned, pretreated and primed surface. The dry film thickness of the exterior coating shall not be less than 0.8 mil. exclusive of the primer. The interior color finish shall consist of a backer coat with a dry film thickness of 0.5 mil. The color finish shall meet or exceed the performance requirements specified below. Color selected from manufactures standard colors.

Paint Color Test:

Test: Film Thickness; Test Method: ASTM D-1005; Performance: 0.2 mil primer 0.8-0.9 mil topcoat
Test: 60° @ under 10 low gloss; Test Method: ASTM D-523; Performance: 25-35
Test: IR Reflectivity; Test Method: ASTM D-4803-97; Performance: Must meet 25% Minimum (exceeds)
Test: Pencil Hardness; Test Method: ASTM D-3363; Performance: HB-H
Test: Flexibility, T-Bend; Test Method: ASTM D-4145; Performance: 2-T Galvalume Steel
Test: Adhesion; Test Method: ASTM D-3359; Performance: No adhesion Loss
Test: Reverse Impact; Test Method: ASTM D-2794; Performance: No cracking or loss of adhesion
Test: Abrasion, Falling Sand; Test Method: ASTM D-968; Performance: 65-85 1/mil
Test: Mortar Resistance; Test Method: ASTM C-267; Performance: No effect
Test: Detergent Resistance; Test Method: ASTM D-2248 3% 72 hrs. @ 100°F; Performance: No effect
Test: Acid Pollutants; Test Method: ASTM D-1308 10% Muriatic Acid (15 min) 20% Muriatic Acid (15 min); Performance: No effect, AAMA 605.2 <5 units color change
Test: Acid Rain Test; Test Method: Kesternich; Performance: 15 cycles minimum, no objectionable color change
Test: Alkali Resistance; Test Method: 20% Sodium Hydroxide (1hr); Performance: No effect
Test: Salt Spray Resistance 5% @ 95° F; Test Method: ASTM B-117; Performance: 1000 hrs Galvalume steel
Test: Humidity Resistance 100% @ 100° F; Test Method: ASTM D-2247; Performance: Passes 1000 hrs Galvalume Steel
Test: South Florida exposure; Test Method: ASTM D-2244; Performance: <5 units color change
Test: UVB (313 bulbs); Test Method: ASTM G-53; Performance: Passes 3000 hrs
Test: Chalk Resistance; Test Method: ASTM D-4214; Performance: Rating of 8 min

Internal Panel Framing: Manufacturer's standard.

Fasteners: Manufacturer's standard noncorrosive types, with exterior heads gasketed.

Accessories: Except as indicated as work of another specification section, provide components required for a complete wall panel/siding system, including trim, closures, fascias, gravel stops, Mullions, sills, corner units, ridge closures, clips, seam covers, battens, flashings, gutters, louvers, sealants, gaskets, fillers, closure strips and similar items. Match materials/finishes of preformed panels.

Bituminous Coating: Cold-applied asphalt mastic, SSPC paint 12, compounded for 15 mil dry film thickness per coat.

WALL PANEL FABRICATION

General: Fabricate and finish panels and accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes, and as required to fulfill indicated performance requirements which have been demonstrated by factory testing. Comply with indicated profiles and dimensional requirements, and with structural requirements.

Metal Gages: Thicknesses required for structural performances, but not less than manufacturer’s recommended minimums for profiles and applications indicated, and not less than 22 gauge.

Required Performances: Fabricate panels and other components of wall system for the following installed performances.

Water Penetration: No significant, uncontrolled leakage at 4 lbs. per sq. ft. pressure with spray test.

Air Infiltration: 0.02 cfm per sq. ft. for gross roof/wall areas, with 4 lbs. per sq. ft. differential pressure.


Sound Absorption, Interior Surfaces: Coefficient of 0.75.

Apply bituminous coating or other permanent separation materials on concealed panel surfaces where panels would otherwise be in direct contact with substrate materials which are noncompatible or could result in corrosion or deterioration of either material or finishes.

Fabricate panel joints with captive gaskets or separator strips, which provide a tight seal and prevent metal-to-metal contact in a manner which will minimize noise from movements within panel system.

Condensation: Fabricate panels for control of condensation, including vapor inclusion of seals and provisions for breathing, venting, weeping and draining.

PART 3 - EXECUTION

INSTALLATION:

A New Gymnasium at
Zion Chapel High School for the
Coffee County Board of Education
Elba, Alabama

MCKEE PROJECT NO. 19.130

METAL WALL PANELS
07411-4

Revised 7.8.2
General: Comply with panel fabricator’s and material manufacturer’s instructions and recommendations for installation, as applicable to project conditions and supporting substrates. Anchor panels and other components of the work securely in place, with provisions for thermal/structural movement.

Install panels with concealed fasteners.

Installation Tolerances: Shim and align panel units within installed tolerance of 1/4" in 20'-0" on level/plumb/slope and location/line as indicated, and within 1/8" offset of adjoining faces and of alignment of matching profiles.

Joint Sealers: Install gaskets, joint fillers and sealants where indicated and where required for weatherproof performance of panel systems. Provide types of gaskets and sealants/fillers indicated or, if not otherwise indicated, types recommended by panel manufacturer.

Refer to other sections of these specifications for product and installation requirements applicable to indicated joint sealers.

Joint Sealers: Refer to other sections of these specifications for post-installation requirements on joint sealers; not work of this section.

CLEANING AND PROTECTION:

Damaged Units: Replace panels and other components of the work which have been damaged or have deteriorated beyond successful repair by means of finish touch-up or similar minor repair procedures.

Cleaning: Remove temporary protective coverings and strippable films (if any) as each panel is installed. Upon completion of panel installation, clean finished surfaces as recommended by panel manufacturer, and maintain in a clean condition during construction.

END OF SECTION
SECTION 08665 – TICKET WINDOW ACCESSORIES

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 Specification sections apply to work of this section.

DESCRIPTION OF WORK:

Extent of each type of windows accessory is shown on drawings.

1. Speaker Grille
2. Half Round Swing Away Door

QUALITY ASSURANCE:

Standards: Except as otherwise indicated requirements for accessories, terminology and standards of performance, and fabrication workmanship are those specified and recommended in ANSI/AAMA 101-88 and applicable general recommendations published by AAMA and AA. Where more stringent requirements are shown, manufacturer shall provide proof of compliance as required by the Architect.

SUBMITTALS:

Product Data: Submit manufacturer's specifications, recommendations, and standard details for window accessories, including certified test laboratory reports as necessary to show compliance with requirements.

Shop Drawings: Submit shop drawings, including wall elevations at 1/4" scale, typical unit elevations at 3/4" scale, and full size detail sections of every typical composite member. Show anchors, hardware, operators, and other components not included in manufacturer's standard data. Include glazing details.

1. Architect reserves right to require additional samples which will show fabrication techniques, workmanship of component parts, and design of hardware and other exposed auxiliary items.

PART 2 - PRODUCTS

MANUFACTURERS:

1. C.R. Laurence Co., Inc.- Basis of Design: Phone 800.421.6144; website www.crlaurence.com
2. Equal products of other manufacturers may be used in the work, provided such products have been approved by the Architect, not less than Ten (10) days prior to scheduled bid opening.

Other manufacturers complying with the details and specifications may make a request for approval by submitting descriptive information (brochures, details, specifications, job size sample, and test report) to the Architect five (5) days prior to bidding.

MATERIALS:

A. Speak-Thru: Model No. #834A No-Draft Speak-Thru, designed to allow audible transmission of voice requests at ticket windows. Prevents tampering from the outside and stop drafts to the interior.

1. Size: 5-5/16”.
2. Finish: Satin Anodized Aluminum
PART 3 - EXECUTION

Comply with manufacturer's specifications and recommendations for installation of window accessories and other components of work.

ADJUST AND CLEAN:

Clean surfaces promptly after installation, exercising care to avoid damage to protective coatings and finishes. Remove excess glazing and sealant compounds, dirt and other substances. Lubricate hardware and moving parts.

END OF SECTION
PART 3 – EXECUTION

INSTALLATION

Install each hardware item in compliance with manufacturer’s instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted of finished in another way, install each item completely and then remove and store in a secure place during the finish application. After completion of the finishes, reinstall each item.

1. Do not install surface mounted items until finishes have been completed on the substrate.

Conform to ANSI A117.1 for positioning requirements for the handicapped.

PROTECTION AND CLEANING

After installation, clean metal surfaces on both interior and exterior of all mortar, paint and other contaminants. After cleaning, protect work against damage.

FINAL ADJUSTMENT

Whenever hardware is installed more than one month prior to occupancy or acceptance, return during the week prior to acceptance or occupancy and make a final inspection and adjustment of all hardware items in such space or area.

SCHEDULE

HARDWARE SET: 01

DOOR NUMBER:
109 111A 123 126A

EACH TO HAVE:
1 CONT. HINGE 224XY IVE
1 PANIC HARDWARE CDSI-98-NL-OP-110MD VON
W/INTERIOR VISIBLE AT GLANCE “LOCKED” AND “UNLOCKED” DOGGING INDICATORS
2 SFIC EVEREST CORE 80-037 SCH
1 SFIC RIM CYLINDER 80-159 SCH
1 SFIC MORTISE CYLINDER 80-132 SCH
1 DOOR PULL VR910 NL IVE
1 SURFACE CLOSER 4050 SCUSH LCN
1 KICK PLATE 8400 8” X 2” LDW B-CS IVE
1 RAIN DRIP 142 ZER
1 GASKETING 8144 ZER
1 DOOR SWEEP 8198 ZER
1 THRESHOLD 65A ZER
**HARDWARE SET: 02**

**DOOR NUMBER:**

108F

**EACH TO HAVE:**

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<tbody>
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**HARDWARE SET: 03**

**DOOR NUMBER:**

128

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A New Gymnasium at Zion Chapel High School For The Coffee County Board of Education Elba, Alabama

MCKEE PROJECT NO. 19-130

FINISH HARDWARE 08700-8

Revised 6.30.20
## Hardware Set: 04

**Door Number:**
- 102A
- 104A
- 105A

**Each to Have:**
- 1 Cont. Hinge 224XY IVE
- 1 Corridor Lock L9456HD 17N L583-363 SCH
- 1 SFIC Everest Core 80-037 SCH
- 1 Surface Closer 4050 SCUSH LCN
- 1 Kick Plate 8400 8” X 2” LDW B-CS IVE
- 1 Rain DRIP 142 ZER
- 1 Gasketing 8144 ZER
- 1 Door Sweep 8198 ZER
- 1 Threshold 65A ZER

## Hardware Set: 05

**Door Number:**
- 110
- 129A
- 129B

**Each to Have:**
- 2 Cont. Hinge 224XY IVE
- 2 Manual Flush Bolt FB458 IVE
- 1 Storeroom Lock L9080HD 17N SCH
- 1 SFIC Everest Core 80-037 SCH
- 2 OH Stop 90H GLY
- 2 Kick Plate 8400 8” X 2” LDW B-CS IVE
- 1 Aastragal 43STST ZER
- 1 Rain DRIP 142 ZER
- 1 Gasketing 8144 ZER
- 2 Door Sweep 8198 ZER
- 1 Threshold 65A ZER

## Hardware Set: 06

**Door Number:**
- 107

**Each to Have:**
- 3 Hinge 5BB1 4.5 X 4.5 IVE
- 1 Classroom Lock L9070HD 17N SCH
- 1 SFIC Everest Core 80-037 SCH
- 1 OH Stop 90S GLY
- 1 Mop Plate 8400 6” X 1” LDW B-CS IVE
- 1 Kick Plate 8400 8” X 2” LDW B-CS IVE
### HARDWARE SET: 07

**DOOR NUMBER:**
- 108A
- 108B
- M202

**EACH TO HAVE:**
- **6 HINGE** $5BB1$ 4.5 X 4.5
- **2 MANUAL FLUSH BOLT** FB458
- **1 DUST PROOF STRIKE** DP2
- **1 CLASSROOM LOCK** L9070HD 17N
- **1 SFIC EVEREST CORE** 80-037
- **2 OH STOP & HOLDER** 90H
- **2 MOP PLATE** 8400 6" X 1" LDW B-CS (OMIT @ DOOR M202)
- **2 KICK PLATE** 8400 8" X 2" LDW B-CS (OMIT @ DOOR M202)

### HARDWARE SET: 08

**DOOR NUMBER:**
- 114
- 116

**EACH TO HAVE:**
- **3 HINGE** $5BB1$ 4.5 X 4.5
- **1 OFFICE/ENTRY LOCK** L9050HD 17N L583-363
- **1 SFIC EVEREST CORE** 80-037
- **1 OH STOP** 90S
- **1 MOP PLATE** 8400 6" X 1" LDW B-CS
- **1 KICK PLATE** 8400 8" X 2" LDW B-CS

### HARDWARE SET: 09

**DOOR NUMBER:**
- 102

**EACH TO HAVE:**
- **3 HINGE** $5BB1$ 4.5 X 4.5
- **1 OFFICE/ENTRY LOCK** L9050HD 17N L583-363
- **1 SFIC EVEREST CORE** 80-037
- **1 SURFACE CLOSER** 4050 RW/PA
- **1 MOP PLATE** 8400 6" X 1" LDW B-CS
- **1 KICK PLATE** 8400 8" X 2" LDW B-CS
- **1 WALL STOP** WS401/402CVX
HARDWARE SET: 10
DOOR NUMBER:
    124A
EACH TO HAVE:
  1 CONT. HINGE 224XY IVE
  1 CLASSROOM DEAD LOCK L462HD SCH
  1 SFIC EVEREST CORE 80-037 SCH
  1 PUSH PLATE 8200 4" X 16" IVE
  1 PULL PLATE 8303 10" 4" X 16" IVE
  1 SFIC EVEREST CORE 80-037 SCH
  1 SURFACE CLOSER 4050 SHCUSH LCN
  1 MOP PLATE 8400 6" X 1" LDW B-CS IVE
  1 KICK PLATE 8400 8" X 2" LDW B-CS IVE

HARDWARE SET: 11
DOOR NUMBER:
    104      105
EACH TO HAVE:
  3 HINGE 5BB1HW 4.5 X 4.5 IVE
  1 PUSH PLATE 8200 4" X 16" IVE
  1 PULL PLATE 8303 10" 4" X 16" IVE
  1 SURFACE CLOSER 4050 RW/PA LCN
  1 MOP PLATE 8400 6" X 1" LDW B-CS IVE
  1 KICK PLATE 8400 8" X 2" LDW B-CS IVE
  1 WALL STOP WS401/402CVX IVE

HARDWARE SET: 12
DOOR NUMBER:
    121      126
EACH TO HAVE:
  1 CONT. HINGE 224XY IVE
  1 PUSH PLATE 8200 4" X 16" IVE
  1 PULL PLATE 8303 10" 4" X 16" IVE
  1 SURFACE CLOSER 4050 EDA LCN
  1 MOP PLATE 8400 6" X 1" LDW B-CS IVE
  1 KICK PLATE 8400 8" X 2" LDW B-CS IVE
  1 WALL STOP WS401/402CVX IVE
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A New Gymnasium at Zion Chapel High School For The Coffee County Board of Education Elba, Alabama

MCKEE PROJECT NO. 19-130

FINISH HARDWARE

08700-13

Revised 6.30.20
HARDWARE SET: 20

DOOR NUMBER: 103A

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DOOR NUMBER: 108E

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HARDWARE SET: AL-01

DOOR NUMBER:

101A

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COORDINATE HARDWARE WITH ALUMINUM DOOR/FRAME MANUFACTURER/SUPPLIER. BALANCE OF HARDWARE BY ALUMINUM DOOR/FRAME MANUFACTURER/SUPPLIER.
HARDWARE SET: AL-02

DOOR NUMBER:
108C  108D

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<td>W/INTERIOR VISIBLE AT GLANCE “LOCKED” AND “UNLOCKED” DOGGING INDICATORS</td>
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<tr>
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<td>3 SFIC MORTISE CYL.</td>
<td>80-132</td>
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<tr>
<td>1 SFIC RIM CYLINDER</td>
<td>80-159</td>
<td>SCH</td>
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<tr>
<td>1 DOOR PULL</td>
<td>VR910 DT</td>
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<td>1 DOOR PULL</td>
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<td>2 OH STOP</td>
<td>100S</td>
<td>GLY</td>
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<tr>
<td>1 SURFACE CLOSER</td>
<td>4050 TJ</td>
<td>LCN</td>
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<tr>
<td>1 MOUNTING PLATE</td>
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<td>LCN</td>
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<tr>
<td>1 MULLION SEAL</td>
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COORDINATE HARDWARE WITH ALUMINUM DOOR/FRAME MANUFACTURER/SUPPLIER.
BALANCE OF HARDWARE BY ALUMINUM DOOR/FRAME MANUFACTURER/SUPPLIER.

A New Gymnasium at
Zion Chapel High School For The
Coffee County Board of Education
Elba, Alabama

MCKEE PROJECT NO. 19-130

FINISH HARDWARE
08700-16

Revised 6.30.20
HARDWARE SET: AL-03

DOOR NUMBER: 101

EACH TO HAVE:

2 CONT. HINGE 112XY IVE
1 REMOV MULL PRE-WIRED 4854 PREPARED FOR 299 X VON
   W/PLUG CONNECTORS 6111 X HAND
   AT MULL FITTING AND
   STRIKE, PREPARED FOR
   ELECTRIC STRIKE
1 PANIC HARDWARE CDSI-98-EO-299 VON
   W/INTERIOR VISIBLE AT
   GLANCE “LOCKED” AND
   “UNLOCKED” DOGGING
   INDICATORS
1 PANIC HARDWARE CDSI-98-NL-OP-110MD VON
   W/INTERIOR VISIBLE AT
   GLANCE “LOCKED” AND
   “UNLOCKED” DOGGING
   INDICATORS
3 SFIC EVEREST CORE 80-037 SCH
2 SFIC MORTISE CYL. 80-132 SCH
1 SFIC RIM CYLINDER 80-159 SCH
1 DOOR PULL VR910 DT IVE
1 DOOR PULL VR910 NL IVE
2 OH STOP 100S GLY
1 SURFACE CLOSER 4050 TJ LCN
1 MOUNTING PLATE 4050-18 LCN
1 MULLION SEAL 139N ZER
1 THRESHOLD 65A ZER
1 ELECTRIC STRIKE 6111-DS-LC-CON VON
1 ELECTRIC STRIKE PS902 VON

POWER SUPPLY

1 CARD READER PROVIDED BY OTHERS

COORDINATE HARDWARE WITH ALUMINUM DOOR/FRAME MANUFACTURER/SUPPLIER.
BALANCE OF HARDWARE BY ALUMINUM DOOR/FRAME MANUFACTURER/SUPPLIER.

END OF SECTION
SECTION 10500 - LOCKERS [Revised 7.10.20]

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract including General and Supplementary conditions and Division 1 Specification sections apply to work of this section.

DESCRIPTION OF WORK

Products in this section include the following:

1. Metal Lockers

QUALITY ASSURANCE

Uniformity: Provide each type of metal locker as produced by a single manufacturer, including necessary mounting accessories, fittings and fastenings.

All lockers shall be factory-assembled, of all MIG welded construction, in multiple column units to meet job conditions. Assembly of locker bodies by means of bolts, screws, or rivets will not be permitted. Welding of knockdown locker construction is not acceptable. Grind exposed welds and metal edges flush and make safe to touch.

Lockers shall be GREENGUARD Children & Schools Certified®

SUBMITTALS

Product Data: Submit manufacturer's technical data and installation instructions for metal locker units.

Samples: Submit color samples on squares of same metal to be used for fabrication of lockers.

Shop Drawings: Submit shop drawings for metal lockers, verifying dimensions affecting locker installations. Show lockers in detail, method of installation, fillers, trim, base, and accessories. Include locker numbering sequence information.

JOB CONDITIONS

Do not deliver metal lockers until building is ready for locker installation. Protect from damage during delivery, handling, storage and installation.

PART 2 - PRODUCTS

Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:

2. ASI Storage Solutions; 900 Clary Connector, Eastanollee, Georgia 30538; www.asistorage.com; PH: 706.827.2720.
3. Penco; 1820 Stonhenge Drive, Greenville, NC 27858; www.pencoproducts.com; PH: 800.562.1000.
Superior Fully Framed All-Welded All-Star MVP Sport Lockers
Location(s): As indicated on drawings. Varsity Locker Rooms
Size: 24” x 24”

Construction: Fabricate lockers square, rigid, and without warp, with metal faces flat and free of dents or distortion. Make all exposed metal edges safe to touch. Weld frame members together to form rigid, one-piece structure. Weld, bolt, or rivet other joints and connections as standard with manufacturer. Grind exposed welds flush. Do not expose bolts or rivet on fronts of locker doors or frames.

Frame / Vertical Side panels: Shall be of 13 gauge ½” flattened expanded metal framed by 16 gauge Hollow "T" tubular sections and channel frame members designed to enclose all four edges of the side panel with the entire assembly MIG welded to form a rigid frame for each locker. The channel frame members are welded to the front and rear vertical frame members to create and anchor bearing surface of 1-1/4 inches wide x the depth of the locker at each side panel.

Integral Frame Locker base: 14 gauge formed structural channels are MIG welded to the front and rear vertical side panel frame members to allow placement of locker bottom a minimum 2-3/4” above floor level. Locker bottom shelf located less than 2” above floor level will not be acceptable.

Flat Tops: Shall be formed of one piece of 16 gauge cold rolled sheet steel and shall be an integral part MIG welded to each vertical side panel frame member and be continuous to cover the full width of a multiple framed locker unit.

Hat Shelf, Intermediate Shelves and Bottoms: Shall be 16 gauge galvanneal sheet-steel, have double bends at front and shall engage slots in the Hollow "T" vertical frame members at all four corners and be securely welded to the frame and side. Locker bottom shelf located less than 2” above floor level will not be acceptable.

Backs: Shall be 18 gauge cold rolled sheet-steel, be continuous to cover a multiple framed unit and be welded to each vertical side panel frame member.

Finishing: All locker parts to be cleaned and coated after fabrication with a seven stage zinc/iron phosphate solution to inhibit corrosion, followed by a coat of high grade custom blend powder electrostatically sprayed and baked at 350 degrees Fahrenheit for a minimum of 20 minutes to provide a tough durable finish. Color to be selected from manufacturer's standard list of colors. Two-Tone Color Combination (if optional security compartment included): Shall be at no additional cost with the locker body, frame and trim chosen from one color and the doors may be one of any other color chosen from manufacturers standard selection.

Include Optional Upper Security Compartments (utilizing standard hat shelf):

Full-Width Upper Security Compartment: Shall be top hinged and be fabricated from single sheet prime 14 gauge with single bend at top and sides with a double bend at latch point (bottom). Door shall be perforated with Security-Plus ventilation. A spring loaded galvanized latch assembly shall be securely welded to the inside of the door. The latch shall be a minimum of 11 gauge, be equipped with a stainless steel spring and shall automatically engage when door is closed. Rubber bumpers shall be riveted to return bends on doors. Locking devise shall be designed for use with both a padlock and built-in lock. Top hinged gym door shall be hinged using a 3/16” diameter continuous hinge rod completely recessed into the door with a concealed fastener. Padlock Strike Plates are required.

Include Optional Lower Seat as follows: or Foot Locker

Include Optional Lower Seat/Shelf: Shall be 16 gauge galvanneal sheet steel, have double bends at front and shall engage slots in the Hollow "T" vertical frame members at all four corners and be securely welded to the frame and side. A reinforcing bar shall be welded to the inside of the front return bend for added strength.

Stainless Steel Coat Rod: Full locker width coat rod shall be 1” diameter stainless steel tubing.
Equipment: Furnish each locker with one galvanneal hat/intermediate shelf and two single prong wall hooks.

Lifetime Warranty: Lockers shall be covered against all defects in materials and workmanship excluding finish, damage resulting from deliberate destruction and vandalism under this section for the lifetime of the facility.

Athletic Team Fully Framed All-Welded Lockers
Location(s): As indicated on drawings. P.E. Locker Rooms
Size: 18” x 18” x 36” Double Tier. Overall Height shall be 72”.

Construction: Fabricate lockers square, rigid, and without warp, with metal faces flat and free of dents or distortion. Make all exposed metal edges safe to touch. Weld frame members together to form rigid, one-piece structure. Weld, bolt, or rivet other joints and connections as standard with manufacturer. Grind exposed welds flush. Do not expose bolts or rivet on fronts of locker doors or frames.

Frame / Vertical Side panels: Shall be of 13 gauge ½” flattened expanded metal framed by 16 gauge Hollow “T” tubular sections and channel frame members designed to enclose all four edges of the side panel with the entire assembly MIG welded to form a rigid frame for each locker. The channel frame members are welded to the front and rear vertical frame members to create and anchor bearing surface of 1-1/4 inches wide x the depth of the locker at each side panel.

Integral Frame Locker base: 14 gauge formed structural channels are MIG welded to the front and rear vertical side panel frame members to allow placement of locker bottom a minimum 2-3/4” above floor level. Locker bottom shelf located less than 2” above floor level will not be acceptable.

Team Wardrobe Doors: Doors 20” high and over and 15” wide and under are to be fabricated from single sheet prime 14 gauge with single bends at top and bottom and double bends at the sides. The channel formed by the double bend at the latch side is designed to fully conceal the lock bar. The latching mechanism shall be finger lift control type constructed of 14 gauge (minimum) steel with a nylon cover that has a generous finger pull. Lock bar shall be hot dip galvanized and installed after paint to ensure proper paint coverage and lock bar operation. Spring activated nylon slide latches shall be completely enclosed in the lock channel allowing doors to close with the lock in the locked position. Locking devise shall be designed for use with either built-in combination locks or padlocks. Latch hooks shall be 11 gauge (minimum) with riveted bumpers and shall be MIG welded to vertical frame member. Provide three latch hooks for doors 48” and over and two for doors under 48”. Doors to be perforated with 5/8” x 1-1/2” diamonds.

P.E. Gym Doors 12” High And Under: Doors 12” high and under to be top hinged and be fabricated from single sheet prime 14 gauge with single bend at top and bottom and double bends at hinge and latch sides. A spring loaded galvanized latch assembly shall be securely welded to the inside of the door. The latch shall be a minimum of 11 gauge, be equipped with a stainless steel spring and shall automatically engage when door is closed. Rubber bumpers shall be riveted to return bends on doors. Locking devise shall be designed for use with both a padlock and built-in lock. Padlock Strike Plates are to be included optional. Doors to be perforated with 7/16” x 15/16” diamonds.

P.E. Gym Doors 15” And 18” High: Doors 15” and 18” high to be side hinged and be fabricated from single sheet prime 14 gauge with single bend at top and bottom and double bends at hinge and latch sides. A spring loaded galvanized latch assembly shall be securely welded to the inside of the door. The latch shall be a minimum of 11 gauge, be equipped with a stainless steel spring and shall automatically engage an 11 gauge full height continuous door strike when the door is closed. The door strike is to be MIG welded to the frame. Rubber bumpers shall be riveted to return bends on doors. Locking devise shall be designed for use with both a padlock and built-in lock. Padlock Strike Plates are to be included optional. Doors to be perforated with 7/16” x 15/16” diamonds.

Seamless Drawn Locker Handle: All wardrobe doors 20” high and over shall have a seamless drawn not less than 304 stainless steel recessed handle shaped to receive a padlock or built-in combination.
lock. The recessed handle shall be deep enough to have the lock be completely flush with the outer door face.

**Door Hinges:** Hinges for wardrobe and side hinged gym doors shall not be less than 3-1/2" long 13 gauge seven knuckle pin type, securely riveted to frame and welded to the door. Doors are to be secured to frame with a minimum of two tamper resistant rivets per hinge. Provide 3 hinges for doors 48" and higher and 2 for doors shorter than 48". All doors shall be right hand side hinged except top hinged gym doors as noted above. Top hinged gym doors shall be hinged using a 3/16" diameter continuous hinge rod completely recessed into the door with a concealed fastener.

**Flat Tops:** Shall be formed of one piece of 16 gauge cold rolled sheet steel and shall be an integral part MIG welded to each vertical side panel frame member and be continuous to cover the full width of a multiple framed locker unit.

**Hat Shelves, Intermediate Shelves And Bottoms:** Shall be 16 gauge galvanneal sheet steel, have double bends at front and shall engage slots in the Hollow "T" vertical frame members at all four corners and be securely welded to the frame and side. Locker bottom shelf located less than 2" above floor level will not be acceptable.

**Backs:** Shall be 18 gauge cold rolled sheet steel, be continuous to cover a multiple framed unit and be welded to each vertical side panel frame member.

**Finishing:** All locker parts to be cleaned and coated after fabrication with a seven stage zinc/iron phosphate solution to inhibit corrosion, followed by a coat of high grade custom blend powder electrostatically sprayed and baked at 350 degrees Fahrenheit for a minimum of 20 minutes to provide a tough durable finish. Color to be selected from manufacturer's standard list of colors. Two-Tone Color Combination: Shall be at no additional cost with the locker body, frame and trim chosen from one color and the doors may be one of any other color chosen from manufacturers standard selection.

**Equipment:** Furnish each locker with the following items, unless otherwise shown.

- **Single tier lockers:** Openings 60" and 72" shall include one galvanneal hat shelf, one double prong ceiling hook and a minimum of two single prong hooks.

- **Double and Triple tier lockers:** Openings 20" thru 36" high shall include one double prong ceiling hook and a minimum of two single prong hooks.

- **Box lockers:** No hooks

**Lifetime Warranty:** Lockers shall be covered against all defects in materials and workmanship excluding finish, damage resulting from deliberate destruction and vandalism under this section for the lifetime of the facility.

**PART 3 – EXECUTION**

**PREPARATION:**

Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication of special components, when possible, to ensure proper fitting of work. However, allow for adjustment and fitting of trim and filler panels wherever taking of field measurements before fabrication might delay work.

**INSTALLATION:**

Install metal lockers at locations shown in accordance with manufacturer's instructions for plumb, level, rigid, and flush installation.
Space fastenings about 48" o.c., unless otherwise recommended by manufacturer, and apply through back-up reinforcing plates where necessary to avoid metal distortion; conceal fasteners insofar as possible.

Install trim, and metal filler panels where indicated, using concealed fasteners to provide flush, hairline joints against adjacent surfaces.

**See Locker Detail Sheet A9.1 for locker base requirement. Note: Contractor shall include finish base as scheduled.**

**ADJUST AND CLEAN:**

Adjust doors and latches to operate easily without binding. Verify that integral locking devices are operating properly.

Touch up marred finishes but replace units which cannot be restored to factory-finished appearance. Use only materials and procedures recommended of furnished by locker manufacturer.

END OF SECTION
SECTION 10800 - TOILET ACCESSORIES [Revised 7.10.20]

PART 1 – GENERAL

GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of contract including General and Supplementary Conditions and Division 1 Specification sections apply to work of this section.

DESCRIPTION OF WORK:

Extent of each type of toilet accessory is indicated on drawings and schedules.

Types of toilet accessories required include the following:

Furnished and installed by the Contractor:

NOTE: Prior to placing any orders for items within this section, the General Contractor is responsible for verifying all toilet accessories with the Owner. Should the owner choose to provide/supply any of these toilet accessories, the General Contractor shall issue a deductive Change Order for material only. The General Contractor will maintain responsibility for installation.

1. Grab Bars
2. Mirror Units
3. Handicapped shower seat
4. Shower Rod
5. Vinyl Shower Curtain
6. Shower Curtain Hooks
7. Double Robe Hook at Shower Units
8. Utility Shelf/Mop Rack
9. Paper Towel Dispensers - Roll Type
10. Electric Hand Dryers

Furnished By Owner and Installed by the Contractor:

1. Toilet Tissue Dispensers
2. Soap Dispensers

QUALITY ASSURANCE:

Inserts and Anchorages: Furnish inserts and anchoring devices which must be set in concrete or built into masonry; coordinate delivery with other work to avoid delay.

Accessory Locations: Coordinate accessory locations with other work to avoid interference and to assure proper operation and servicing of accessory units.

Products: Provide products of same manufacturer for each type of accessory unit and for units exposed in same areas, unless otherwise acceptable to Architect.

SUBMITTALS:

Product Data: Submit manufacturer's technical data and installation instructions for each toilet accessory.
PART 2 – PRODUCTS

The following manufacturer’s products have been used to establish minimum standards for materials, workmanship and function.

4. Soap Dispensers:
   a. Wall-Mounted over each sink
   b. Approved Products:
      i. Bobrick #B-2112
      ii. ASI #0-343
      iii. Bradley #6662

2. Toilet Tissue Dispensers:
   a. Roll Type: (One each water closet)
   b. Approved Projects:
      i. Bradley #5425
      ii. ASI #0040

3. Grab Bars:
   a. Where shown on Plans with Safety-Grip Finish.
   b. Approved Products:
      i. Bradley Corporation #8122
      ii. Series ASI #3200P
      iii. Bobrick #B6806.99

4. Mirror Units:
   a. 18" x 38" One over each lavatory
   b. 24" x 48" One at each Gang Toilet
   c. Approved Products:
      i. Bradley #780
      ii. Bobrick #B290
      iii. ASI #0600

5. Handicapped Shower Seat:
   a. Locations as Indicated on drawings
   b. Approved Products:
      i. Bobrick #B5181
      ii. Bradley #9565

6. Shower Rod:
   a. At each shower unit as indicated on the drawings, shower rod unit shall be polished stainless steel
   b. Approved Products:
      i. Bradley #9531-4
      ii. ASI #1204
      iii. Bobrick #B6047

7. Vinyl Shower Curtain:
   a. Curtain shall be 8 gauge vinyl fabric
   b. 72" high
   c. 6" wider than opening up to 48"
d. 12" wider than openings exceeding 48"

e. Color as selected by the Owner

f. Approved Products
   i. ASI #1200-V

8. Shower Curtain Hooks:
   a. Supply stainless steel hooks for each shower curtain as required
   b. Approved Products
      i. ASI #1200-SHU

9. Double Robe Hook:
   a. At Shower Units
   c. Approved Products
      i. Bradley #9125
      ii. ASI #7345
      iii. Bobrick #B-7672

10. Utility Shelf/Mop Rack:
    a. At locations indicated on drawings. If not indicated, provide One (1) at each Janitor Closet containing water closet. If location is not indicated, contractor is to coordinated location(s) with architect.
    b. Approved Products
       i. ASI #1308-4 (44")
       ii. Bradley #9934 (44’)
       iii. Bobrick #B239 x 44

11. Paper Towel Dispensers:
    a. Roll Type
    b. Surface Mounted
    c. Approved Products
       i. Bobrick #B52860

12. Electrical Hand Dryers:
    a. As shown on Plans at Gang Toilets
       i. Excel – Hand Activated #HO-IW

Equal products of other manufacturers may be used in the work provided such products have been approved by the Architect not less than Ten (10) days prior to scheduled bid opening.

MATERIALS, GENERAL:

Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22 gage minimum, unless otherwise indicated.

Mirror Units: Mirror glass shall be FS DD-G-451, Type I, Class I, Quality q2, 1/4” thick, with silver coating, copper protective coating, and non-metallic paint coating complying with FS DD-M-411. Mirror shall be provided in stainless steel frames.

Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized steel where concealed.

A New Gymnasium at Zion Chapel High School for the Coffee County Board of Education Elba, Alabama

MCKEE PROJECT NO. 19.130

TOILET ACCESSORIES 10800-3

Revised 7.10.20
FABRICATION:

General: Stamped names or labels on exposed faces of toilet accessory units are not permitted, except where otherwise indicated; in obtrusive labels on surfaces not exposed to view are acceptable. Where locks are required for a particular type of toilet accessory, provide same keying throughout project. Furnish two keys for each lock.

Surface Mounted Toilet Accessories General: Except where otherwise indicated, fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous stainless steel piano hinge. Provide concealed anchorage wherever possible.

Recessed Toilet Accessories, General: Except where otherwise indicated, fabricate units of all welded construction, without mitered corners. Hang doors or access panels with full-length stainless steel piano hinge. Provide anchorage which is fully concealed when unit is closed.

PART 3 – EXECUTION

INSTALLATION:

Install toilet accessory units in accordance with manufacturer’s instructions, using fasteners which are appropriate to substrate and recommended by manufacturer of unit. Install units plumb and level, firmly anchored in locations and at heights indicated.

ADJUSTING AND CLEANING:

Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace damaged or defective items.

Clean and polish all exposed surfaces after removing labels and protective coatings.

END OF SECTION
PART 1 – GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of the Contract including General and Supplementary Conditions and Division 1 Specifications sections apply to work specified in this Section.

SUMMARY:

Extent of pre-engineered buildings work is shown on drawings.

Building Type: The pre-engineered building system shown is a single story, rigid frame type metal building of the nominal length, width, eave height and roof pitch indicated.

1. Manufacturer’s standard components may be used, providing components, accessories, and complete structure conform to architectural design appearance shown and to specified requirements.
2. Concrete floor and foundations and installation of anchor bolts are specified in a Division 3 section. Provide anchor bolts (including sizes and lengths) and anchor bolt plan to Contractor for work by others.
3. Sealants and caulking are specified in Division 7 section.
4. Provide blanket insulation under roof and inside walls as indicated on drawings and specified in Section 07200, Insulation.
5. Provide prefinished metal roof panels as indicated on drawings and specified in Section 07410, Preformed Metal Roofing.
6. Provide interior and exterior wall panels as indicated on drawings and specified in Section 07411, Metal Wall Panel and Section 09800, Acoustical Metal Wall Panel System
7. Provide prefinished facia, vented/non-vented soffit systems, flashing, drip edge, trim, gutters and downspouts as indicated on drawings and specified in Section 07600, Flashing and Sheet Metal.

DESCRIPTION

Provide all materials, labor, equipment and services, and perform all operations in connection with the furnishing and installing of pre-engineered building, in accordance with the drawings and specifications, including the following:

1. Metal Framing Components
2. Metal Building Accessories
3. Workmanship
4. Inspection of Surfaces
5. Protection
6. Delivery, Samples and Shop Drawings
7. Guarantee and Warranty

SUBMITTALS:

Any deviation (deletions, additions or revisions thereof) from the requirements of the Contract Documents contained in a Submittal shall be clearly identified as a “Deviation from Contract Requirements” (or by similar language) within the Submittal in ‘RED’ and, in a letter transmitting the Submittal to the Architect, the Supplier and Contractor shall direct the Architect’s attention to, and request specific approval of, the specific deviations. Otherwise, the Architect’s approval of a Submittal does not constitute approval of any deviation from the requirements of the Contract Documents contained in the Submittal. Should any deviation be found at a later date, the Supplier and Contractor shall bear the responsibility and cost of all corrections required.
Product Data: Submit manufacturer's product information, specifications and installation instructions for building components and accessories. Submit sample warranty.

Shop Drawings: Submit complete erection drawings showing anchor bolts settings, sidewall, endwall, and roof framing, transverse cross sections, covering and trim details, and accessory installation details to clearly indicate proper assembly of building components.

1. The shop drawings MUST be submitted as an "overlay" drawing to the Architectural drawings.
2. The Contractor/supplier MUST provide the "overlay" drawings including the Architectural drawings in the complete submittal.
3. The "overlay" drawings must be submitted in 'RED' with the Architectural drawings in 'BLACK'.

Samples: The contractor shall submit roofing samples of finished roofing system for pre-engineered buildings per Section 07410, Preformed Metal Roofing.

Certification: Submit written Certification and all structural calculations prepared and signed by a Professional Engineer, registered to practice in the State where building is to be erected, verifying that building design meets indicated loading requirements and codes of authorities having jurisdiction. Calculations shall clearly show all loads used for the design of each member. All column reactions at the foundation shall be provided for verification of the foundation design.

QUALITY ASSURANCE:

Design Criteria:

1. All items below shall be designed within the architectural design furring spaces. Refer to submittal requirements above for deviations made from the requirements of the Contract Documents.
2. Structural Framing: Design primary and secondary structural members and exterior covering materials for applicable loads and combinations of loads in accordance with the Metal Building Manufacturers Association's (MBMA) "Design Practices Manual".
3. Structural Steel: For design of structural steel members, comply with requirements of the American Institute of Steel Construction's (AISC) "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings" for design requirements and allowable stresses.
4. Light Gage Steel: For design of light gage steel members, comply with requirements of the American Iron and Steel Institute's (AISI) "Specification for the Design of Cold Formed Steel Structural Members" and "Design of Light Gage Steel Diaphragms" for design requirements and allowable stresses.
6. Impact Resistance: Roof coverings installed on low-slope roofs (roof slope <2:12) shall resist impact damage based on the results of tests conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-GP-52M or the "Resistance to Foot Traffic Test “ FM 4470.

Design Loads: Building shall meet all applicable Codes.

1. Basic design loads include live load, wind load and up-lift, in addition to the dead load. Minimum acceptable design loads and deflection criteria are shown on the drawings.
2. Design each member to withstand stresses resulting from combinations of loads that produce the maximum allowable stresses in that member as prescribed in MBMA's "Design Practices Manual".

Manufacturer's Qualifications: Provide pre-engineered metal buildings as produced by a manufacturer with not less than 5 years successful experience in the fabrication of pre-engineered metal buildings of the type and quality required. Manufacturer will be a member of the MBMA.
Erector's Qualifications: Pre-engineered building shall be erected by a firm that has not less than 5 years successful experience in the erection of pre-engineered buildings similar to those required for this project, and that has been licensed by the manufacturer of the building system.

DELIVERY, STORAGE AND HANDLING:

Deliver and store prefabricated components, sheets, panels and other manufactured items so they will not be damaged or deformed.

Stack materials on platforms or pallets, covered with tarpaulins or other suitable weathertight ventilated covering. Store metal sheets or panels so that water accumulations will drain freely. Do not store sheets or panels in contact with other materials which might cause staining.

PROJECT WARRANTY:

Contractor shall furnish 5 year Contractors Guarantee.

All roof warranties shall be provided to the Owner, by the Contractor at the Final Inspection to obtain the Substantial Completion.

The roof insulation shall be covered under the roof warranty as required by the manufacturer.

All roof warranties shall be provided to the Owner, by the Contractor at the Final Inspection to obtain the Substantial Completion.

Standard manufacturer’s roofing guarantees which contain language regarding the governing of the guarantee by any state other than the State of Alabama, must be amended to exclude such language and substituting the requirement that the Laws of the State of Alabama shall govern all such guarantees.

The roofing manufacture shall be required to provide documentation certifying that the roof design provided complies with the performance requirements as set forth in IBC Chapter 15, Section 1504. The documentation shall be attached to the roof warranty at the close out of the project.

PART 2 – PRODUCTS

Manufacturer: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

1. ACI Building Systems
2. American Buildings Company
3. Butler Buildings Company
4. Ceco Building Systems
5. Mesco Buildings
6. Morin Building Systems
7. NCI Building Systems
8. Nucor Building Systems
9. Varco-Pruden Building System

MATERIALS:

Metals:

1. Hot-Rolled Structural Shapes: Comply with requirements of ASTM A36 or A529.
2. Tubing or Pipe: Comply with requirements of ASTM A500, Grade B, ASTM A501, or A53.
3. Members Fabricated from Plate or Bar Stock: Provide 42,000 psi minimum yield strength. Comply with requirements of ASTM A529, A570 or A572.
4. Members Fabricated by Cold Forming: Comply with requirements of ASTM A607, Grade 50.
5. **Bolts for Structural Framing:** Comply with requirements of ASTM A307 or A325 as necessary for design loads and connection details.

**STRUCTURAL FRAMING:**

Rigid Frames shall be fabricated from hot-rolled structural steel. Provide built-up "I-beam" shape rigid frames consisting of either tapered or parallel flange beams and straight columns. Provide frames factory welded and shop painted. Furnish frames complete with attachment plates, bearing plates and splice members. Factory drill frames for bolted field assembly.

1. Provide length of span and spacing of frames indicated. Slight variations in length of span and frame spacing may be acceptable if necessary to meet manufacturer's standard, and if approved by the Architect.
2. Provide rigid frames at endwalls where indicated.

**End Wall Columns:** Provide factory welded, shop painted endwall columns built-up "I" shape welded plate.

**Wind Bracing:** Provide horizontal and adjustable wind bracing at roof only using diagonal cables or threaded steel rods; comply with requirements of ASTM A36 or A572, Grade D.

**Secondary Framing:**

The spacing of all purlins as shown on the drawings is diagrammatic, the Registered Professional Engineer for the Pre-Engineered Building shall be responsible for the design of the roof structure to support the framing to meet all state, federal and local code restrictions and structural requirements set forth by the structural engineer. It shall be the responsibility of the Pre-Engineered Building manufacture to coordinate with the Bidding Contractor the amount of erection required for the roof framing before bidding.

Provide not less than 16-ga. shop painted rolled formed sections for the following secondary framing members unless shown otherwise on structural contract drawings.

1. Purlins.
2. Eave struts.
3. Endwall rafters.
4. Flange bracing.
5. Sag bracing.

Provide not less than 14-ga. cold-formed galvanized steel sections for the following secondary framing members:

1. Base channels.
2. Sill angles.
3. Endwall structural members (except columns and beams).
4. Purlin spacers.

**Bolts:** Provide ASTM A307 bolts, at secondary structural connections. Provide zinc-plated or cadmium-plated bolts when structural framing components are in direct contact with roofing and siding panels. Primary structural connections to be made with ASTM A325 bolts.

**Shop Painting:** Clean surfaces to be primed of loose mill scale, rust, dirt, oil, grease, and other matter precluding paint bond. Follow procedures of SSPC-SP3 for power tool cleaning, SSPC-SP7 for brush-off blast cleaning, and SSPC-SPI for solvent cleaning.

1. Prime structural steel primary and secondary framing members. See Structural Steel 05500 page 3 - Structural Steel Prime Paint and page 5 - Shop Painting.
2. Prime galvanized members, after phosphoric acid pretreatment with manufacturer’s standard zinc dust-zinc oxide primer.

ROOFING, WALL PANELS, SHEET METAL ACCESSORIES & MISC. MATERIALS

See Section 07410 – Preformed Metal Roofing
See Section 07411 – Metal Wall Panels

FACIA, SOFFIT, FLASHING, DRIP EDGE, TRIM, GUTTERS AND DOWNSPOUTS

See Section 07600 – Flashing and Sheet Metal

FABRICATION:

General: Design prefabricated components and necessary field connections required for erection to permit easy assembly and disassembly. Fabricate components in such a manner that once assembled, they may be disassembled, repackaged and reassembled with a minimum amount of labor.

1. Clearly and legibly mark each piece and part of the assembly to correspond with previously prepared erection drawings, diagrams and instruction manuals.

Structural Framing: Shop fabricate structural framing components to the indicated size and section complete with base plates, bearing plates and other plates required for erection, welded in place. Provide required holes for anchoring or connections either shop drilled or punched to template dimensions.

1. Shop Connections: Provide power riveted, bolted or welded shop connections.
2. Field Connections: Provide bolted field connections.

PART 3 – EXECUTION

ERECTION:

Framing: Erect structural framing true to line, level and plumb, rigid and secure. Level base plates to a true even plane with full bearing to supporting structures, set with double-nutted anchor bolts. Use a non-shrinking grout to obtain uniform bearing and to maintain a level base line elevation. Moist cure grout for not less than 7 days after placement.

Purlins and Girts: Provide rake or gable purlins with tight fitting closure channels and fascias. Locate and space wall girts to suit door and window arrangements and heights. Secure purlins and girts to structural framing and hold rigidly to a straight line by sag rods.

Bracing:

Provide Temporary Cross Bracing as required for full height of bays. Temporary cross bracing shall be removed upon completion of final cross bracing.

Final Cross Bracing shall be as shown and described on the Structural Drawings. The Contractor shall furnish and install cross bracing as directed by the Structural Engineer – no exceptions. Portal frames are not permitted.

Framed Openings: Provide shapes of proper design and size to reinforce openings and to carry loads and vibrations imposed, including equipment furnished under mechanical or electrical work. Securely attach to building structural frame.

ROOFING, WALL PANELS, SHEET METAL ACCESSORIES & MISC. MATERIALS

See Section 07410 – Preformed Metal Roofing
See Section 07411 – Metal Wall Panels

A New Gymnasium at Zion Chapel High School for the Coffee County Board of Education Elba, Alabama

MCKEE PROJECT NO. 19.130

PRE-ENGINEERED BUILDING 13120-5

Revised 7.8.20
FACIA, SOFFIT, FLASHING, DRIP EDGE, TRIM, GUTTERS AND DOWNSPOUTS

See Section 07600 – Flashing and Sheet Metal

END OF SECTION