



CONSTRUCTION MANAGER'S MANUAL

Project: Wynne New High School

Issue Date: 10/28/2024

TABLE OF CONTENTS

Table of Contents	2
1.00 Invitation to Bid	4
.01 Project Information	5
.02 Bidding Procedure	5
.03 Prebid Meeting	6
.04 Project Team Information.....	6
.05 Site Specific Safety Considerations	6
2.00 Bidding Instructions and Supplemental Information.....	7
.01 Instructions to Bidders.....	7
.02 Declaration Regarding Prohibition of Sex Offenders and Convicted Felons on School Premises.....	13
.03 Bid Affidavits.....	14
.04 Wage Requirements	15
3.00 Bid Packages and Bid Forms	28
.01 General Scope Requirements	28
.02 Bid Form (Wynne New High School).....	30
1. Final Cleaning.....	34
2 Concrete Complete – Building & Site.....	36
3 Polished Concrete Finish.....	40
4 Masonry, Unit Pavers.....	43
5. Structural and Miscellaneous Steel (Supply)	46
6. Structural and Miscellaneous Steel (Installation)	49
7. Structural Precast Concrete (Supply & Install).....	52
8. Light Gauge Framing, Drywall, Acoustical, Batt Insulation	55
9. Spray Foam Insulation	59
10. Millwork and Carpentry	61
11. Laboratory Casework & Equipment (Supply & Install)	64

12. Waterproofing, Dampproofing, Joint Sealants	68
13. Curtain wall / Storefront, Glass, Glazing	71
14. Metal Canopies	77
15. Metal Panels Roof and Wall (Supply and Install)	79
16. ACM Panels (Supply and Install)	82
17. Membrane Roofing, Flashing, Sheet Metal	84
18. Coiling Doors and Service Doors	87
19. Tile and Commercial Flooring	90
20. Epoxy Flooring	93
21. Stage Flooring	95
22. Athletic Flooring	97
23. Finish, Painting and Wallcovering	100
24. Doors, Frames, Hardware (Supply)	103
25. Signage Interior & Exterior	106
26. Building Specialties (Supply)	108
27. Food Service Equipment	112
28. Bleachers (Stadium, Multi-Purpose - Portable)	114
29. Gymnasium Equipment	116
30. Lockers (Supply)	118
31. Window Treatment	120
32. Audio Visual Equipment & Installation	122
33. Fixed Audience Seating	124
34. Auditorium Theater Stage Rigging and Curtains (supply & install)	127
35. Fire Suppression	129
36. Plumbing	131
37. Heating, Ventilation, Air Conditioning	135
38. Electrical	138
39. Data and Communications	141
40. Fire Alarm Complete	143

41. Elevators	145
42. Asphalt Paving	147
43. Pavement Marking	149
44. Fencing and Gates	151
45. Landscaping and Irrigation	153
46. Tennis Courts Complete	155
47. Greenhouse – Supply & Installation	157
4.00 Schedule	160
5.00 Other Forms.....	161
.01 Insurance Requirements.....	161
.02 Example Contracts, Forms, and Other Documents.....	168
.03 Virtual Design Construction Protocol	169
.04 Nothing Hits the Floor	173

1.00 INVITATION TO BID

Nabholz Construction Corporation (herein after referred to as “Nabholz” or “Construction Manager”) is accepting specialty contractor and supplier proposals for the below referenced project. All proposals or bids received shall be submitted in accordance with the requirements of the Construction Manager’s Manual (the “CM Manual”). Plans and bidding documents will be available via internet link, or at various reprographic locations. Bidders should contact Nabholz for access to bidding documents.

Bid Packages will be due at the time and date listed below. Additional instructions and details pertaining to bid submission are listed herein.

.01 Project Information

Project Name:	Wynne New High School
Nabholz Job Number:	07-24-2775
Jobsite Address:	800 E. Jackson Ave., Wynne, AR 72396
Job Description:	New High School
LEED Certification:	N/A
Approximate Construction Start:	February 2025
Approximate Construction Finish:	March 2027
Are BIM/VDC Practices Required?	No
Is this a “Nothing Hits the Floor” Project?	Yes
Is this a CCIP Project? (Contractor Controlled Insurance Program)	Yes
Is this an OCIP Project? (Owner Controlled Insurance Program)	No
Is this job prevailing wage?	Yes – Davis Bacon Wage Scale (Certified Payroll) reference 2.04.
Is this job taxable?	Yes

.02 Bidding Procedure

Bid Date:	11/14/2024
Bid Time:	2:00 p.m.
Bid Submission Procedure:	Bids should be emailed to gary.hoyt@nabholz.com , Kristen.wildes@nabholz.com , rowdy.ditto@nabholz.com & luke.gammill@nabholz.com ,email bids must be received no later than 12:00 PM or in person at Nabholz Construction office 3415 One Place, Jonesboro, AR 72404
Private or Public Opening:	Public
Bid Bond Required:	None
Bid Opening Location:	Nabholz Construction Jonesboro Office located at 3415 One Place, Jonesboro, AR 72404
RFI/Bid Question Deadline:	Friday, November 1, 2024 by 4:00 PM Click or tap to enter a date.
RFI/Bid Question Process:	Bidders shall submit questions in writing (email is preferred) by the established deadline. Questions should reference specific details, plan sheets, specifications, or bid manual sections.

.03 Prebid Meeting

Prebid Meeting Date:	10/29/2024
Prebid Meeting Time:	10:00AM & 1:00PM
Prebid Meeting Location:	Jobsite Office Trailer – 800 E. Jackson, Wynne, AR 72404
Is the Prebid Mandatory?	Not mandatory however is high recommended – two options of times either 10:00am or 1:00pm

.04 Project Team Information

Nabholz Office:	3415 One Place, Jonesboro, AR 72404
Nabholz Sr. Project Manager:	Gary Hoyt (870) 219-8520 or email; gary.hoyt@nabholz.com
Nabholz Asst Project Manager:	Kristen Wildes (662) 469-1082 or email; Kristen.wildes@nabholz.com
Nabholz Asst Project Manager:	Rowdy Ditto (870) 219-8097 or email; rowdy.ditto@nabholz.com
Nabholz Project Engineer:	Luke Gammill (870) 273-6365 or email; luke.gammill@nabholz.com
Nabholz Project Executive:	Justin Shrable (870) 273-5437 or email; justin.shrable@nabholz.com
Nabholz Superintendent:	Michael Oliver (870) 316-9983 or email; michael.oliver@nabholz.com
Nabholz Estimator(s):	Drew Westlake (501) 580-5990 or email; drew.westlake@nabholz.com Jeremy Breckling (501) 205-9803 or email; jeremy.breckling@nabholz.com
Architect:	ARCH1010
Architect Contact:	Josh Bellaire
Architect Address:	676 Marshall Are. Suite 101, Memphis, TN 38103

.05 Site Specific Safety Considerations

Project Safety Considerations	1.Active School Campus- with Football Stadium, Arena, Weight Room, Fieldhouse and Locker Room (All Actively in use)
(in addition to Nabholz Safety Standards)	2.Main drives around site – busy residential neighborhoods
	3.Large machinery
	4.Construction Traffic
	5.Multiple trades on site
	6.School Traffic and Pedestrian Traffic
	7.Visitors

Construction Manager will use the standard Master Contract, Project Contract, and any amendments thereto, collectively, (the “Subcontract”), for all Subcontractors. Construction Manager will use standard Purchase Order (“PO”) for all Suppliers. Copies of these documents are available in electronic or hard copy upon request. We may also require performance and payment bonds for Subcontractors using Consensus 706 and 707 by an acceptable surety company or require other forms of surety.

Job Conditions and Job Safety in accordance with all safety regulations, including, federal (OSHA), state, and local, Construction Manager policy, and Subcontract or Purchase Order shall be required of all personnel on the Project including Subcontractors, Suppliers, and second tier Subcontractors and Suppliers. Reference Site-Specific Safety Considerations (Section 1.05 of this Manual) and Nabholz Safety Standards (Section 5.02

of this Manual). In addition, Construction Manager will enforce a NO SUBSTANCE ABUSE policy, and will not permit the use of tobacco on the Project site.

Construction Manager is an AA/EOE. All Women Owned Businesses (WBE), Minority Owned Businesses (MBE), and Disadvantaged Business Enterprises (DBE), including women, minority, disabled or veteran-owned business, are encouraged to submit a proposal or bid.

2.00 BIDDING INSTRUCTIONS AND SUPPLEMENTAL INFORMATION

.01 Instructions to Bidders

The following instructions apply to all proposals.

1. All bids shall be submitted on the bid form found in section 3.00 of this manual, inclusive of the scope of work specified in the applicable bid package.
2. Bid bonds are required for subcontractor proposals over \$100,000, unless stated otherwise in section 1.02.
3. Bidders must fulfill prequalification requirements in accordance with CM's trade contractor procurement policy prior to the award of any Bid Package contract. Prequalification Questionnaires and applicable supporting documents are required annually and are available at <https://www.nabholz.com/trade-contractors/> or by contacting the Construction Manager's ("CM's") office.
4. Modification to Bid Packages may be cause for rejection of proposal.
5. Bidders warrant they have visited the Project site prior to submission of proposals or have attended the pre-bid meeting(s) for the purpose of understanding and accepting all conditions in and around the Project site.
6. Bidders warrant that proposals are submitted in accordance with the requirements of CM Manual and Contract Documents. Bidders also warrant that proposals are submitted in accordance with the specification sections and drawings relating to the scope of the Bid Package.
7. Bidders must submit questions in writing to the CM no later than seven (7) days prior to the Bid Date or by the established RFI deadline. Responses to Bidders' RFI(s) will be distributed in the form of an Addendum or Clarification to all Bidders. Addenda may be issued during the bidding period. Bidders must acknowledge all addenda on the Form of Proposal. Addenda become part of the Contract Documents.
8. Bidders must, immediately notify CM in writing of errors, omissions, discrepancies, or noncompliance with applicable codes and regulations within the Contract Documents or any work which will not fit or properly function if installed as indicated in the drawings and specifications. This requirement does not relieve the Architect of design or professional service responsibilities.
9. Bidders must comply with all federal, state, local laws, and the rules and regulations of all authorities having jurisdiction over construction of the Project shall apply to the Subcontract or Purchase Order

("PO") throughout. Statutes will be deemed to be included in the Subcontract or PO, the same as though herein written out in full.

10. Subcontracts and PO will be awarded based on the lowest responsible qualified proposal, provided it is in the best interest of the Owner and/or CM. The Owner and/or CM reserves the right to reject any and all proposals and to waive any informality in the proposals.
11. To determine the lowest responsible qualified proposal, the CM will evaluate proposals based on the following considerations:
 - a. Total amount of Bidders' proposal, including Base Bid and Alternate Bids;
 - b. Acknowledgement of issued Addenda;
 - c. Bidders' bonding rate and capacity;
 - d. Sufficiency of Bidders' financial resources;
 - e. Evaluation of Bidder's labor rates;
 - f. Bidders' ability to perform in accordance with the Contract Documents;
 - g. Bidders' ability to perform without delay or interference to other trades or scopes of work;
 - h. Bidders' history of performance on previous projects with CM or Owner;
 - i. Responsibility and reputation of Bidders;
 - j. Evaluation of Bidders' safety record;
 - k. Bidder's history of compliance with applicable laws, codes, and regulations;
 - l. Quality and availability of Bidders' personnel and resources; and
 - m. Amount and nature of Bidders' current or pending litigation.
12. Bidders bonding capacity and rate will be evaluated by CM and Owner. The cost of providing Bidders Performance and Payment Bonds may be added to Base Bid to assist in evaluating the lowest responsible qualified proposal. Bidders will be required to use the ConsensusDocs 706 and 707 for bonds, as provided at <https://www.nabholz.com/bidding-and-contract-documents/>
13. CM may perform an investigation of Bidders' financial condition. Bidders agree to assist in any such investigation, which may include a request for Bidders most recent audited or reviewed financial statements, a review of Bidders "Business Information Report" as prepared by Dun & Bradstreet, Inc., or discussions with Bidders' surety and banking agents.
14. Bidders are required to provide a price for each specified Alternate Bid, Unit Price, or Price Breakout that affects Bidders' Bid Package.
15. Bidders are required to provide unit prices for all labor classifications that apply to Bidder's Bid Package. Labor unit prices will be used to calculate labor for all change order requests.
16. The Contract Documents will include all documents identified as Contract Documents in the Agreement between the Construction Manager and Owner, The Master Contract & Project Contract between Construction Manager and Subcontractor, as well as the following attachments and any Addenda and Supplementary Conditions.
 - a. Exhibit A – Bid Package Description

17. All attachments and exhibits to the Contract between Construction Manager and Owner shall be recognized by Subcontract or PO between Bidders and Construction Manager.
18. Bidders' proposal shall include, but not limited to, the following costs:
 - a. All applicable Sales Tax and Freight on Board to Project site unless stated otherwise in the trade specific Bid Package.
 - b. Prevailing wage rates and documentation if required by Contract Documents.
 - c. Employee orientation, safety training, infection control training, and photo ID badging, as required.
 - d. Attendance at preconstruction and project coordination meetings, as required by specifications and Construction Manager's Quality Management System ("QMS"). Subcontractor is required to send foreman, project manager or owner to all weekly Project site coordination meetings pertaining to the Scope of Work and/or as required by Construction Manager's Project Superintendent. Employees attending meetings must have the authority to make commitments on Subcontractor's resources (manpower, equipment, tools, etc.) to maintain Project Schedule or meet milestone dates.
 - e. Delivery of submittals, including but not limited to shop drawings, product data, samples, mock-ups, operating service and maintenance manuals, Material Safety Data Sheets (MSDS), and other documents and submittal materials required by the specifications.
 - f. All product testing documentation required by specifications, including test certificates
 - g. Coordination for field testing and inspections required by specifications and Construction Manager's QMS. Laboratory testing by others; any re-testing required due to initial failed testing under Scope of Work is the responsibility of Subcontractor. This requirement does not apply to air test & balance tests
 - h. Hook-up and consumption charges for temporary utility and telephone services for Bidders' trailers and sheds, including maintenance of temporary services and removal of services when no longer needed.
 - i. Task lighting and special electrical service requirements, including but not limited to:
 - i. Electrical Subcontractor will provide temporary power to accommodate the use of power tools, lighting, and masonry saws.
 - ii. Temporary electrical outlets will be spaced so that the entire area of construction can be reached by power tools on a single 100-foot extension cord; and
 - iii. General temporary illumination will be maintained at a level of 5 foot-candles.
 - j. Telephones, computers, and internet access.
 - k. Drinking water and ice.
 - l. Storage sheds, office trailers, and labor sheds.
 - m. Portable, gas-driven welders.

- n. All parking for employees shall be coordinated with Construction Manager's Project Superintendent at Bidders' expense.
 - o. All material handling equipment, including but not limited to hoisting with certified operators, bracing, shoring, scaffolding as necessary to move materials and complete Scope of Work.
 - p. Daily clean up and removal of all identifiable debris, including but not limited to:
 - q. Site Cleanup. Subcontractor shall keep the Project site and work areas clean at all times and must sweep each work area and remove all debris prior to discontinuing work in each area. If the Subcontractor fails to immediately commence compliance with cleanup duties within forty-eight (48) hours after written notification from the Contractor of noncompliance, the Contractor may implement appropriate cleanup measures without further notice and deduct the cost thereof from any amounts due or to become due the Subcontractor under this Contract. Unless otherwise specified or required by law or regulation, all debris will be sorted as required and deposited on the Project site at a location designated by the project superintendent. Subcontractor shall comply with Contractor's on-site recycling and refuse programs. Subcontractors shall follow any Nabholz sustainability plans and programs regardless of whether the job is certified by the U.S. Green Building Council, Green Globes, or any other building certification entity. Temporary protection of work and stored materials. Protect adjacent materials and finishes. Damage caused by performing this work will be the responsibility of this trade contractor.
 - r. Weather protection as required to protect and perform the Work unless specifically excluded in Bid Package.
 - s. All applicable trade permits, licenses, and inspection fees, including bonds required for the Scope of Work.
 - t. Engineering layout, professional surveys, grade control and field dimensions associated with the Scope of Work.
 - u. Touch-up painting of any prefinished items as required.
 - v. Dewatering of all excavations associated with the Scope of Work, as required, preserving structural integrity and workability.
 - w. Provide enclosures, temporary heat, blankets, additives, etc. as needed to protect Work and materials from cold weather conditions.
 - x. Removal of existing materials in existing facilities, if considered part of the Scope of Work and legally dispose of offsite.
 - y. Provide and install firestopping at penetrations in fire walls resulting from Work in accordance with specifications and code requirements. Allow 5-10% destructive testing. Obtain approved submittal before installing firestopping.
19. Bidders shall strictly comply with Construction Manager's safety policies and OSHA safety regulations. Construction Manager's complete Safety Standards can be reviewed at Construction Manager's offices

or <https://www.nabholz.com/bidding-and-contract-documents/> Hard hats and safety glasses, and high-visibility clothing are mandatory for all Project site employees during all phases of the project and must be worn at all times. Prior to working on a Construction Manager's Project, the viewing of Construction Manager's Safety Video by the construction personnel of all Bidders is a mandatory requirement. Hardhat stickers will be given to those construction workers who are confirmed to have viewed the safety video. All workers must have the current calendar year hard hat sticker on their hard hats in order to perform work on Construction Manager's Project.

20. Compliance with and weekly updating of Construction Manager's Site Specific Combustibles Storage Plan.
21. Compliance with all requirements of Construction Manager's substance abuse and security policies.
22. Compliance with Construction Manager's insurance requirements. Reference Section 5.01 of the CM Manual.
23. Bidders' work shall strictly comply with all adopted Building Codes. Any code-related conflict in drawings and specifications shall be clarified and approved by the local Code Authority prior to installation.
24. Bidders shall be held responsible for submission of all submittals within three weeks of Notice of Intent to Award, including but not limited to shop drawings, product data, samples, mock-ups, operating, service and maintenance manuals, material safety data sheet information, and other submittals required by the specifications and Construction Manager's QMS. Submittals to be checked and signed off on by Bidders' representative indicating a review has been completed. Shop Drawings should be started upon Notice of Intent to Award and completed expeditiously to not delay construction. Coordinate with existing conditions and other Subcontractors as needed for locations, sizes and penetrations required. Color samples to be treated as part of the submittal process.
25. Bidders shall provide closeout documents per Contract Documents and Master Contract including, but not limited to, attic stock, as built drawings, testing, warranties and equipment operation manuals before Substantial Completion as a prerequisite to Final Payment. Provide equipment operation instructions to Owner representative, as required.
26. Bidders shall provide warranty from date of Substantial Completion of Subcontractor's Work and for the duration per specification. All Warranty and call-back Work resulting from the Scope of Work shall be at no cost to the Owner or Construction Manager. Temporary use of equipment during construction will not affect the Warranty or call-back periods required by the specifications.
27. Bidders may not remove or replace its Superintendent or Foreman without prior written consent from Construction Manager.
28. Bidders shall coordinate delivery of required materials associated with the Bid Package. Bidders shall provide equipment and personnel necessary to unload, stack, protect, and store materials on Project site. Bidders shall inventory all delivered items and inspect for damage or missing items. Note damaged or missing items on the bill of lading. Construction Manager is not responsible for damaged or misplaced

materials or equipment. Bidders shall file all damage claims with insurance carrier(s). Placement of staged items shall be coordinated with Construction Manager's Project Superintendent.

29. Stored materials are to be protected from heat and humidity as required by the manufacturer. All materials must be tagged with Project and Construction Manager's name. The items above are subject to the specifications and Owner requirements. Coordinate location of Project site storage containers with Project Superintendent.
30. Bidders shall coordinate Work with the Construction Manager and other trades affecting their Scope of Work.
31. Bidders shall contact the Project Superintendent if the substrate is unacceptable before installation of the Scope of Work. Installation of materials over substrate implies acceptance of substrate.
32. Time is of the essence. Provide a detailed schedule in bar chart format for the Scope of Work within 10 days of receiving Notice of Intent to Award. Comply with the Project Schedule furnishing necessary resources, including overtime, to maintaining project schedule. Should Bidders fall behind schedule due to conditions within Bidders' control, Bidder shall implement whatever means are necessary to accelerate the Bidders' Scope of Work until it is in compliance with the schedule. The cost of accelerating the Work shall be borne by the Bidders. Certain areas may be completed earlier than originally indicated on schedule. Subcontractor must be prepared for any minor adjustments to the schedule as Work progresses.
33. Time lost due to weather conditions must be made up by Bidders.
34. Bidders shall comply with the established work hours or Owner-specified durations necessary to minimize impact on Owner operations.
35. Construction Manager maintains ownership of all schedule free float.
36. Bidders shall sequence Work as directed by Construction Manager.
37. Bidders must be and have been regularly engaged in Work to be performed for the past 5 years using at least partially their own workforce skilled in that type of work. Project site foreman must be employed directly by Subcontractor and professionally qualified for Work to be performed with at least 10 years' experience.
38. Bidders must participate and comply with the Construction Manager's QMS as relevant to the Scope of Work.
39. Punch lists issued by Construction Manager, Architect, or Owner will be completed within fourteen (14) calendar days from the date of issue. If Bidders fails to comply with this requirement, Construction Manager reserves the right to perform the Work for the Bidders and back-charge the Bidders for the cost of the Work.
40. Prior to commencing work, bidders must provide company specific safety plan and silica exposure plan to superintendent, in either digital or physical copy.

.02 Declaration Regarding Prohibition of Sex Offenders and Convicted Felons on School Premises

(TO BE SUBMITTED PRIOR TO AWARD FOR PROJECTS PERFORMED ON SCHOOL PREMISES)

_____ (“Subcontractor”) hereby acknowledges that it has a contract with Nabholz Construction for Work to be performed on the _____ (Name of School District or School Facility Project) premises. This applies to both green field and renovation/expansion school projects. Subcontractor declares that it has verified (and will continue to verify at least annually) that none of its employees and none of their sub-tier subcontractor employees working on the school premises noted above have been convicted, entered a plea of guilty or a plea of nolo contendere, or received a suspended sentence for a crime or an attempt a crime in the State of Arkansas, the United States or any other state for

1. any sex offense subject to a Sex Offenders Registration Act, and/or
2. any felony offense within the last ten (10) years unless such an employee has received a presidential or gubernatorial pardon.

Subcontractor acknowledges that it is unlawful for any person who is a registered pursuant to the Sex Offenders Registration Act to work with children or to work on school premises.

DECLARATION BY SUBCONTRACTOR

The undersigned _____ represent that he/she is the Owner or an officer of _____, who has the authority to make this declaration to Nabholz Construction.

I declare under oath that no employee working on school premises under the authority of the above-named company or business has been convicted in this State, United States or another state of any sex offense subject to the Sex Offenders Registration Act or is subject to state or federal sex offender registrations provisions. I further declare that no employee working on school premises under the authority of the above-named company or business has been convicted of a felony offense within the past ten (10) years in this State, the United States, or another state.

DATED this ____ day of _____, 20____.

Subcontractor _____

By _____ Title _____

Attest: _____

Subscribed and sworn to before me this

day of _____, 20____.

Notary Public

.03 Bid Affidavits

N/A

.04 Wage Requirements

Davis Bacon Wage Scale – Certified Payroll

"General Decision Number: AR20240021 05/31/2024

Superseded General Decision Number: AR20230021

State: Arkansas

Construction Type: Building

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Counties: Clay, Cross, Fulton and Jackson Counties in Arkansas.

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658.

Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered	. Executive Order 14026		
into on or after January 30,	generally applies to the		
2022, or the contract is	contract.		
renewed or extended (e.g., an	. The contractor must pay		
option is exercised) on or	all covered workers at		
after January 30, 2022:	least \$17.20 per hour (or		
	the applicable wage rate		
	listed on this wage		
	determination, if it is		
	higher) for all hours		
	spent performing on the		
	contract in 2024.		
_____		_____	

If the contract was awarded on	. Executive Order 13658
or between January 1, 2015 and	generally applies to the
January 29, 2022, and the	contract.
contract is not renewed or	. The contractor must pay all
extended on or after January	covered workers at least
30, 2022:	\$12.90 per hour (or the
	applicable wage rate listed
	on this wage determination,
	if it is higher) for all
	hours spent performing on

| | that contract in 2024. |
|_____ |_____ |

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number Publication Date

0 01/05/2024

1 05/31/2024

* ENGI0624-006 01/01/2024

Rates Fringes

POWER EQUIPMENT OPERATOR

Crane.....\$ 34.25 15.00

Forklift.....\$ 33.25 15.00

IRON0321-010 08/01/2023

Rates Fringes

IRONWORKER, STRUCTURAL.....\$ 27.00 20.96

* PAIN0424-008 07/01/2021

Rates Fringes

PAINTER (Spray).....\$ 16.25 ** 10.42

SHEE0036-035 06/01/2021

Rates Fringes

SHEET METAL WORKER (HVAC Duct
Installation Only).....\$ 24.44 13.66

* SUAR2015-018 01/09/2017

Rates Fringes

BRICKLAYER.....	\$ 19.15	0.00
CARPENTER, Includes Drywall		
Hanging.....	\$ 17.20	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 21.08	0.00
ELECTRICIAN.....	\$ 21.95	6.36
LABORER: Common or General.....	\$ 11.12 **	0.00
LABORER: Mason Tender - Brick...	\$ 12.32 **	0.00
OPERATOR:		
Backhoe/Excavator/Trackhoe.....	\$ 23.08	0.00
OPERATOR: Bulldozer.....	\$ 18.14	0.00
PAINTER (Brush and Roller).....	\$ 15.68 **	0.00
PLUMBER.....	\$ 19.72	3.49
SPRINKLER FITTER (Fire		
Sprinklers).....	\$ 21.77	2.46

TRUCK DRIVER: Dump Truck.....\$ 15.00 ** 0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.20) or 13658 (\$12.90). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their

own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular

rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010

08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was adopted under 29 C.F.R. 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 01/03/2024 reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations

Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION"

3.00 BID PACKAGES AND BID FORMS

.01 General Scope Requirements

All trade specific bid packages shall be inclusive of the General Scope Requirements listed below.

1. Early in the project Nabholz will require OSHA approved helmets with chin straps instead of hard hats. Make plans to provide for all personnel onsite.
2. Refer to Instructions for Bidders, for general requirements.
3. Subcontractor agrees to follow all safety procedures and safety regulations of Nabholz, including those that are more stringent than Subcontractor's own safety policy or OSHA standards.
4. All employees must wear hard hats, eye protection, and high visibility vests at all times on site.
5. Subcontractor is responsible for the protection of the SWPPP devices in place. If Subcontractor is required to move a SWPPP device in order to complete work, Subcontractor must replace that device as installed. Coordinate removal and replacement of SWPPP device with Project Superintendent.
6. Construction Manager will provide layout to building corners. Subcontractor is responsible for layout beyond these points.
7. Coordinate on-site employee parking with Project Superintendent.
8. Coordinate location of on-site storage containers with Project Superintendent
9. Employees shall avoid harassment of students, faculty, or staff. Employees who violate this requirement may be removed from the jobsite by Project Superintendent.
10. Subcontractor will actively participate in the Nabholz Quality Management System.
11. Subcontractor agrees to follow the Project Schedule and meet the milestone dates. Certain areas may be made earlier than originally indicated on Schedule. Subcontractor must be prepared for any minor adjustments to the Schedule as work progresses.
12. Subcontractor must attend weekly coordination meetings. Employees attending meetings must have the authority to make commitments on manpower to maintain Project Schedule or meet milestone dates.
13. All Subcontractors and Suppliers will be required to write a site-specific safety plan to address Nabholz 12 Commitments To Live By (C2LB).
14. The Project will be staged on an existing, occupied, operating school campus. Avoid interaction with owner's employees, students, teachers and/or staff. Any harassment of personnel listed above will not be tolerated. All questions or comments from such should be referred to Project Superintendent. Violation of this requirement will not be tolerated and may be grounds for immediate dismissal from Project and/or legal action.
15. Deliveries of building materials will give right of way to school bus traffic during drop-off and pick-up times.

16. Construction activities that generate high decibel noise levels must be scheduled and coordinated with Construction Manager's Project Superintendent.
17. Construction Manager will coordinate with the school's Principal to work within academic and testing schedules.
18. In accordance with Arkansas State Law as described in Arkansas Code 6-21-609, smoking, the use of tobacco, or the use of products containing tobacco in any form is prohibited on any property owned or leased by a public-school district.
19. Note LEED Certification is a stated goal of the Project. All members of the construction team are required to actively participate in documentation and enforcement of LEED credit requirements. Participation will include, but not limited to the following activities:
 - a. Compliance with and protection of Erosion and Sedimentation Control Plan;
 - b. Separation of construction debris into waste and recycling containers provided by the Construction Manager;
 - c. Documentation of recycled content of installed materials;
 - d. Documentation of sourced regional materials; and
 - e. Protection of stored or installed absorptive materials from moisture damage.
20. Note Virtual Building Design will be part of this project. Refer to Section 005.17 Virtual Design Construction Protocol and bid packages for additional information.
21. Prior to award, Subcontractors will be required to complete the Declaration Regarding Prohibition of Sex Offenders and Convicted Felons on School Premises form located in Section 3.02 or such declarations otherwise required by the Owner.

.02 Bid Form (Wynne New High School)

Date of Bid _____

Submitting Company ("Bidder")

Company Name _____

Legal Name _____

Project State License Number _____

Company Representative

Name _____

Email Address _____

Cell Phone _____

Scope of Work

Bid Package Number _____

Bid Package Description _____

Addenda

Bidder acknowledges receipt of the following addenda:

Addendum # _____ Dated _____ Addendum # _____ Dated _____

Addendum # _____ Dated _____ Addendum # _____ Dated _____

Addendum # _____ Dated _____ Addendum # _____ Dated _____

Base Bid

By submitting this proposal form, bidder acknowledges receipt of and compliance with Nabholz minimum insurance requirements, Master Contract Agreement, Project Contract Agreement, Performance and Payment Bond requirements, Purchase Order, CCIP Program Addendum, and Safety Standards.

Bidder agrees to complete the Scope of Work listed below for a lump sum of:

\$ _____

ALTERNATES AND LEAD TIMES:

*** see spec manual 01-2300 Deductive Alternates for details. ***

Alternates per Spec Book:

1. Substitute Scored Concrete with Integral color for Permeable Pavers and Ribbon curb:
Deductive Alternate #1 – BP4 sheets C1.03, C104 & C1.05: Deduct \$ _____
Add Alternate for #1 – BP2 sheet C1.03, C104 & C1.05 Add \$ _____
Deductive Alternate for #1 – BP45 Paver Grates C1.03, C104 & C1.05 Deduct \$ _____

2. Alternate #2 has been deleted.

3. Tennis Courts. Omit two (2) of the Four (4) Tennis Courts and all associated Concrete, Sidewalks, Fencing, Broken Concrete pavement and drainage infrastructure (2 of the 3 north courts)
Deductive Alternate #3 – BP46 Deduct \$ _____

4. Alternate #4 has been deleted.

5. Roofing System. Replace specified areas of 80 mil fully-adhered roofing system with 60 mil mechanically attached roofing system at all TPO locations indicated on the Architectural Drawings.
Deductive Alternate #5 – BP17 Deduct \$ _____

6. Brick. Replace all Specified Modular Sized Brick with Utility Sized Brick at all locations indicated to receive brick in the entire project. Reference Architectural drawings for locations. See related specification sections for all materials, seismic ties, flashing, preparation, and execution requirements. Etc. – Basis of Design shall be #938 light gray (wire cut) modular by ‘Bowerston’ – or approved equal.
Deductive Alternate #6 – BP4 Deduct \$ _____

7. Deductive Alternate #7 Auditorium Balcony. (this will be issued as Addendum) \$ _____

8. Deductive Alternate #8 Courtyard Stairs. (this will be issued as Addendum) \$ _____

9. Vinyl Wall Graphics. Omit all vinyl wall graphics in entire project that are indicated on Architectural drawings and are to be included in the base bid. See related specification sections for all materials, fastener types, preparation, and execution requirements. Etc.
Deductive Alternate #9 – BP25 Deduct \$ _____

10. Woodwork ACT. Change all areas of the specified Woodworks ACT to Calla ACT System in all locations indicated to be Woodworks ACT in the entire project. See related specifications sections for all materials, fastener types, preparation, and execution requirements, etc.
Deductive Alternate #10 – BP8 Deduct \$ _____

11. Cafeteria Dining Ceiling. Change the Entire Cafeteria Dining Ceiling and Lighting Design to match the Media Center Ceiling and Lighting Design (Calla ACT System). See related specification sections for all materials, fastener types, preparation, and execution requirements. Etc.
 Deductive Alternate #11 – BP8 and BP38 Deduct \$_____

Alternates shown on Construction Plan Pages:

12. Add Alternate Fencing: change 4’ chain link fence to 4’ ornamental iron fencing (match style of 6’ ornamental) around football field inside track area, from visitor bleachers and go south around track back up to the home bleachers. BP44- see sheets C1.03, C1.06, C1.07 Add \$_____
13. Deductive Alternate 3 BP45 Stream Restoration Planting– L1.05 & L1.06 Deduct \$ _____

PROPOSED LEAD TIMES

HVAC

- A. OUTSIDE AIR ROOF TOP UNITS (DOAS)_____
- B. VARIABLE & CONSTANT AIR VOLUME ROOFTOP UNITS (RTU)_____
- C. DUCTLESS SPLIT HEAT PUMP UNIT _____
- D. DUCTLESS SPLIT INDOOR UNIT_____

ELECTRICAL

- A. MDP PANELS_____
- B. PANEL BOARDS_____
- C. SWITCH GEAR_____
- D. GENERATOR_____

ELEVATORS _____

BLEACHERS _____

FIXED SEATING _____

STRUCTURAL STEEL _____

Work in Progress & Project Specific Qualifications

Bidders may be required as part of the overall evaluation to submit a Work in Progress (WIP) Report that lists the ten (10) largest projects currently being constructed. Final evaluation of Bidder’s proposal shall be conditional on review of WIP Report, and Bidder’s experience with similar scope and projects. The (WIP) document is not required at the time of bid submission.

Completion Time

All Work shall be completed within the schedules prepared by and agreed to by Nabholz. Bidder shall provide adequate manpower and submit documentation for approval necessary to work within the timeframe scheduled. Estimated time period for construction is February 2025 – March 2027.

Bonding

Bond Rate Cost in Percent _____

Bidder can provide a Performance and Payment Bond and can meet the requirements set forth in the “Project Contact”.

(circle one)

Yes/No

Name of Surety Agent _____

Surety Agent Phone Number _____

Acceptance of Contract Forms

Bidder acknowledges that they have reviewed and accept the Contract Performance and Administration, Sample Master Contract, Sample Project Contract, Payment and Performance Bonds, Sample Purchase Order, Contractor-Controlled Insurance Program Addendum to Master Contract and the Nabholz Safety Standards forms linked in Section 5.02. Proposed modifications must be submitted with bid.

Signature

Bidder agrees that this proposal remains valid for a period of 60 days. Bidder understands that Nabholz and the Owner reserve the right to reject any or all bids. Bidder acknowledges Nabholz minimum insurance requirements and understands that the Master Contract shall be the basis of any contract offered by Nabholz Construction to Bidder. Proposed modifications of Master Contract language must be submitted with bid. Attach additional sheets if necessary. Upon receipt of notice of acceptance of bid, Bidder agrees to execute and return the contract and required insurance certificates within two weeks of notification.

By _____

Title _____

Printed name of individual signing this proposal _____

Contact phone number _____

Date _____

END OF PROPOSAL FORM

1. Final Cleaning

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Provide a final construction cleaning service.
2. Time is of the essence. Furnish adequate manpower to clean areas of the building so as not to adversely impact move in by the owner.
3. Cleaning compounds must be compatible with surfaces.

Section B: Project Specific Requirements:

1. Wipe down all surfaces.
2. Clean all the interior glass and mirrors.
3. Clean all exterior window glass.
4. Vacuum & sweep carpet.
5. Wet mop vinyl floors.
6. Wet mop porcelain and ceramic tile floors.
7. Wet mop terrazzo floors.
8. Dust all countertops and millwork drawers and cabinets.
9. Clean light fixtures, sinks and tub plumbing fixtures and trim.
10. Clean both the gym floor and theater floor based on installer cleaning instructions. Coordinate with GC prior.
11. Pricing will need to include lifts, or any additional equipment needed to clean hard to reach areas while adhering to safety standards.
12. **This will be multiple mobilizations by phase with one final clean at the end of the project.**

Section C: Project-Specific Exclusions:

1. Project specific exclusion 1.

Section D: Project Alternates:

1. Alternate 1. n/a

Section E: Unit Pricing:

1. Unit Price 1. n/a

END OF BID PACKAGE

2 Concrete Complete – Building & Site

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- **Division 0 – Introductory Information, Procurement, and Contracting Requirements**
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 - 00-1004 Arkansas Historic Preservation Program Reference
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 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

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 - 01-1000 Summary
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 - 01-2900 Payment Procedures (Davis-Bacon)
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 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
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 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- **Division 3 – Concrete**
 - 03 – Refer to plans
- **Division 7 – Thermal and Moisture Protection**
 - 07-9200 Joint Sealants
 - 07-9513 Expansion Joint Cover Assemblies

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Prepare and construct all concrete assemblies, including but not limited to drilled piers, wall and column foundations, pile caps, footings and mats, grade beams, slabs on grade, ramps, trenches, pits, equipment pads, below-grade walls, structural slabs, columns, beams, and slabs on deck as indicated in the construction documents. Prepare and construct all site concrete assemblies, including but not limited to concrete paving, drainage swales, curbs and gutters, curb inlet caps, pedestrian paving, steps, ramps, stoops, mow strips, equipment and transformer pads, light pole bases, light bollard bases, flag bases, site foundations and slabs as indicated in the construction documents.
2. Furnish and install all expansion and construction joints including keyways, dowels and saw cutting as required.
3. Include all associated excavation, backfill, and compaction (both interior and exterior perimeters). Move spoils off-site or to area designated by Contraction Manager.
4. Backfill compaction must meet the requirements of specifications.
5. Including formwork, bedding and leveling materials, reinforcing steel and mesh, tie wire, bolsters and supports, void forms, board insulation, concrete ready-mix, methods of conveyance (i.e. pumps, buggies), admixtures, curing and hardening compounds, concrete accessories, joints and weeps, sleeves, drain boxes and covers, filter fabrics and moisture membranes, finishing, and rubbing.
6. Install all embedded items (including bollards, sleeves, bolts) furnished by others.
7. Furnish, install, and compact gravel base at concrete flatwork where required.
8. Provide and install truncated warning devices if required.
9. Provide integrally colored concrete if required by construction documents.
10. Provide termite treatment in accordance with specifications.
11. Grout all base plates as required.
12. Install and maintain a designated concrete wash down area.
13. Provide all cold weather and/or hot weather protection as required to maintain Project Schedule in accordance with ACI standards.
14. Provide generator power if electric is not readily available.
15. Unless more stringent requirements are specified, maintain maximum flatness tolerance of 1/8 inch in 10 feet for all floor slabs.
16. Final surfaces shall be as specified and free from cracks, voids, and spalls. Positive drainage of water shall be provided on traffic surfaces, without ponds or water stands. Should final surfaces contain any of the above mentioned, items shall be repaired at no additional cost to the Owner.
17. Replace grades to original condition in affected areas adjacent to work performed.
18. Concrete curing shall be in accordance with the construction documents and ACI.
19. Include temporary shoring of metal deck as required to support concrete materials.

20. Include foundation layout with base line established by professional surveyors. Check and maintain survey control points and layout anchor bolts.
21. Coordinate with plumbing and electrical trades regarding work that is under or in concrete.
22. Coordinate city inspections.
23. Provide ACI certified personnel to take concrete cylinders as required.

Section B: Project Specific Requirements:

1. All concrete associated with the bleacher system.
2. Furnish & Install ALL Site concrete.
3. Provide all layout & surveys associated with required work. Coordinate with GC prior.
4. Integral color concrete, ribbon curb included
5. A102.1 Slot drain to be set in concrete
6. See Pages S201.1 – S202.2 for Structural/Geo foam fill details.
7. For Footing Schedule see page. S001
8. Concrete Properties can be found on page S001
9. Composite slabs see page S102.4 & S304.1 Detail #3.
10. Ribbon curb
11. Broken concrete paving in Courtyard, Areana Area, please see civil pages.
12. Flagpole footing details
13. Furnish & Install all Expansion Joint Cover Assemblies
 - a. Warranty: See Section 01 7000 – Contract Closeout, for additional warranty requirements.
 - b. Provide installation warranty against defective materials and workmanship within a five-year period after Date of Substantial Completion.
 - c. Warranty: Include coverage for installed sealants and accessories which fail to achieve watertight seal, exhibit loss of adhesion or cohesion, or do not cure.
 - d. During the warranty period restore defective work to the standard of the Contract Documents without additional compensation, including all materials, labor, refinishing and other costs incidental to the work. Within 24 hours after receipt of notice from the Owner, inspect the work and immediately repair leaks. Restore work found itself to be defective, as defined in the Contract Documents, within 10 days after receipt of notice from the Owner.
14. Structural Geo Foam to be provided and installed.
15. Provide & install 4” deep SS drain channel per plans.

Section C: Project-Specific Exclusions:

1. Tennis Court Concrete EXCLUDED.
2. Project specific exclusion

Section D: Project Alternates:

1. Alternate for #1 – BP2 sheet **C1.03 & C1.05**, Substitute Scored Concrete with Integral color for Permeable Pavers and Ribbon curb.

Section E: Unit Pricing:

1. Unit Price 1

END OF BID PACKAGE

3 Polished Concrete Finish

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

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 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 3 – Concrete
 - 03-3543 Polished Concrete Finishing
- Division 7 – Thermal and Moisture Protection
 - 07-9200 Joint Sealants

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Grind and polish or sealed concrete surfaces as specified and shown on drawings A900 – A909.
2. Inspect existing substrate prior to installation. Start of installation will be construed as Subcontractor’s acceptance of the substrate.
3. Include all surface preparation necessary prior to grinding and polishing.
4. Comply with installation tolerances as outlined in the construction documents.
5. Provide fresh air to avoid health hazards for all workers.
6. Provide temporary heat (if required) for completion of this scope.
7. Furnish and install manufacturer’s recommended coverings for damage and wear protection during the remainder of construction.
8. Fill concrete joints with specified joint fillers.
9. Provide samples and/or mockups as specified.

Section B: Project Specific Requirements:

1. Finish Legends is found on A900 to A909 Follow accordingly.
2. Installer Qualifications per spec 03 3543
3. Concrete finishing components and materials shall be from single manufacturer (Spec 03 3543)
4. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction and approving application methods. Also, Manufacturer shall have a minimum 5 years of experience in manufacturing components similar to or exceeding requirements of project.
5. Mock-ups: On site, prior to the start of the polished concrete finishing process. (Spec 03 3543 – 1.5 Quality) Coordinate with GC prior.
6. Materials see Spec section 03 0343 – 2.2 Materials for additional information on products
7. Qualifications:
 - a. Installer Qualifications:
 1. Applicators are to be familiar with specified requirements and methods needed for proper performance of work of this section. Must have available proper equipment to perform work within scope of this project on a timely basis. The applicator should have successfully performed a minimum of 4 projects of similar scope and complexity.
8. Multiple mobilizations will be needed for this project. Please coordinate appropriately.

Section C: Project-Specific Exclusions:

1. Project specific exclusion 1.

Section D: Project Alternates:

Section E: Unit Pricing:

1. Unit Price 1.

END OF BID PACKAGE

4 Masonry, Unit Pavers

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

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 - 01-2500 Substitution Procedures
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 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 4 – Masonry
 - 04-2000 Masonry
 - 04 2010 Concrete Masonry Units
 - 04-8100 Unit Masonry Assemblies
- Division 7 – Thermal & Moisture Protection
 - 07-9200 – Joint Sealant
- Division 32 – Exterior Improvements
 - 32-1443 Porous Unit Paving

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Provide and construct all masonry assemblies as indicated and specified in the construction documents.
2. Perform all work from approved shop drawings and/or product data. Confirm that you have the latest approved “field use” drawings prior to start of work.
3. Provide a sample mock-up panel as soon as possible, in a location as directed by the Project Superintendent. The panel will clearly show all CMU, grout, reinforcing, anchoring, seismic (if required) ties, flashing, brick and mortar (per required color selection(s), and other materials as required for a complete review and approval of the quality of finished product.
4. Coordinate all lay down and staging areas with Project Superintendent at least 48 hours in advance of all material deliveries.
5. Provide all layout and field measurements for this work including layout for embedded items.
6. Prepare and clean footings (as required) prior to starting masonry work.
7. Layout, drill, and epoxy reinforcing at masonry walls when shown on the contract documents.
8. Provide shoring and bracing of walls, masonry lintels, and bond beams to facilitate this work.
9. Coordinate with other trades as required for block outs, cutouts, and the installation of access doors and plumbing fixture chairs.
10. Coordinate location and placement of steel embeds with structural steel erection subcontractor.
11. Provide standard and special shaped masonry units, mortar, grout, knock-out panels, reinforcing steel, precast, masonry joint reinforcing, anchors, ties, embedded flashing, and other masonry accessories may be required to complete the masonry assemblies as detailed and specified.
12. Include all rigid insulation behind masonry as required.
13. Install weather barrier flashing provided by others at each masonry tie or penetration.
14. Furnish and install cavity wall insulation when shown in contract documents.
15. Provide all anchors and attachments to structural members as required per the contract documents.
16. Set hollow metal frames furnished by others. Including grouting of frames as required.
17. Install steel lintels and embedded plates furnished by others.
18. Include protection of masonry cells and cavity between masonry walls from infiltration of moisture at the end of each workday. Protect space between masonry and sheathing.
19. Cover and protect all slab areas that will receive special finishes as directed by the Construction Manager.

20. Repair divots bigger than 1/2" in diameter and patch block as directed by Construction Manager.
21. Include rubbing of exposed unit masonry and final cleaning.
22. Provide all cold-weather and hot-weather protection per construction documents necessary to maintain Project Schedule.
23. Include flue liners, ash dumps and fireplace units if required.
24. Masonry needs to pick up joint Sealant exterior only. Painter will be responsible for everything on the interior envelope of the building.
25. Furnish & install all rigid insulation behind masonry.

Section B: Project Specific Requirements:

1. Mockups – Erect a sample panel for each of the following masonry materials required for this project (Spec Number: 04 2000)
 - a. Face brick: includes accent colors and special shapes
 - b. CMU: include special shapes, sills, corners and install a typical control joint at the control panel.
2. Laying Brick 04-2000
 - a. Section 3.01: laying Brick with head joints 100% Full. Failure to fill head joints fully will be grounds for rejection of the work. Please refer to this section for further information.
3. Follow seismic requirements per code.

Section C: Project-Specific Exclusions:

1. Project specific exclusion 1.
2. Project specific exclusion 2.

Section D: Project Alternates:

1. Deductive Alternate #1 – BP4 sheet C1.03 & C1.05
2. Brick Replace all Specified Modular Sized Brick with Utility Sized Brick at all locations indicated to receive brick in the entire project. Reference Architectural drawings for locations. See related specification sections for all materials, seismic ties, flashing, preparation, and execution requirements. Etc. – Basis of Design shall be #938 light gray (wire cut) modular by 'Bowerston' – or approved equal.
Deductive Alternate #6 – BP4

Section E: Unit Pricing:

1. Unit Price 1.

END OF BID PACKAGE

5. Structural and Miscellaneous Steel (Supply)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 5 – Metals
 - 05-5000 Metal Fabrications
 - 05-5100 Metal Stairs
 - 05-5213 Pipe and Tube Railings
 - 05-7300 Decorative Metal Railings

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. All steel work shall be fabricated from approved shop drawings. Confirm that you have the latest approved “field use” drawings prior to start of work.
2. Fabricate and deliver all structural steel columns, beams, tube framing, brace frames, gusset plates, bridging, joists, decking, edge and other angles, bent plates, connectors, studs, and fasteners as indicated in the construction documents.
3. Fabricate and supply anchor bolts, loose lintels, wheel guards, railings, and pipe bollards as indicated in the construction documents.
4. Fabricate and deliver all rough hardware, bearing and leveling plates, miscellaneous steel trim, shelf and relief angle, tread plate and supports, railings and handrails and metal pan stairs.
5. Fabricate and deliver elevator pit ladder, hoist beam, and sump pit grate.
6. Furnish miscellaneous framing/support for mechanical, plumbing, and electrical equipment.
7. Fabricate and deliver metal deck closures.
8. Provide all sleeve anchors and any anchors that connect steel to other materials.
9. All steel exposed to view shall be oil free, have welds ground smooth, and be of sufficient quality for an exposed and finished surface.
10. Include prime painting (galvanized where required by the bid documents) and touch-up (where required) as indicated in the construction documents.
11. Include all freight to jobsite. Coordinate all lay down and staging areas with Project Superintendent at least 48 hours in advance of all material deliveries. Coordinate delivery schedule with steel erection subcontractor for offloading.
12. Provide copies of current welder’s certifications prior to the start of any work. Keep those records on file at the job trailer and always keep them current.

Section B: Project Specific Requirements:

1. Furnish “Green Fence” referenced in C5.01 Detail 5
2. Furnishing Spiral Staircase & Railing
3. Furnish Stainless Steel handrail with stainless steel vertical stanchions A6.04-A6.06
4. Furnish Handrails per handrail Schedule page A613
5. Furnish roof ladders & misc. steel reference pages A413, A503 & A820
6. Furnish related trash & generator enclosure gates A100.1
7. Furnish Bathroom Screen Walls (3) with 2”x2” HM Pipe reference A513 Detail 2
8. Furnish Perforated Metal panels around 2 trophy cases referenced on A519
9. Project will include multiple mobilizations due to phasing.
10. Furnish tension handrail.

Section C: Project-Specific Exclusions:

1. Steel for bleachers excluded from this package.

Section D: Project Alternates:

Section E: Unit Pricing:

1. Unit Price 1.

END OF BID PACKAGE

6. Structural and Miscellaneous Steel (Installation)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 5 – Metals
 - 05-5000 Metal Fabrications
 - 05-5100 Metal Stairs
 - 05-5213 Pipe and Tube Railings
 - 05-7300 Decorative Metal Railings

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. All steel work shall be erected from “approved” shop drawings furnished by the steel fabricator. Confirm that you are working from the latest approved “field use” drawings prior to start of work.
2. Erect all structural and miscellaneous steel furnished in Bid Package 5 Structural and Miscellaneous Steel (Supply).
3. Include off-loading of materials. Coordinate all lay down and staging areas with Project Superintendent at least 48 hours in advance of all material deliveries.
4. Protect surfaces from welding equipment and activities.
5. Provide temporary bracing and shoring as needed to perform this scope of work.
6. Include all materials and equipment for stud welding if required including power source.
7. Include base plate elevations.
8. All steel exposed to view shall be oil free, have welds ground smooth, and be of sufficient quality for an exposed and finished surface.
9. Provide copies of current welder’s certifications prior to the start of any work. Keep those records on file at the job trailer and keep them current at all times.

Section B: Project Specific Requirements:

1. Install Green Fence referenced in C5.01 Detail 5
2. Install Spiral Staircase & Railing
3. Install Stainless Steel handrail with stainless steel vertical stanchions A6.04-A6.06
4. Install handrails per Handrail Schedule page A613
5. Install roof ladders/hatches reference pages A413, A503 & A820
6. Install related trash & generator enclosure gates A100.1
7. Install Bathroom Screen Walls (3) with 2”x2” HM Pipe reference A513
8. Install Perforated Metal panels around 2 trophy cases referenced on A519
9. Project will include multiple mobilizations due to phasing.
10. Install tension handrail.

Section C: Project-Specific Exclusions:

1. Steel for bleachers excluded from this package.

END OF BID PACKAGE

7. Structural Precast Concrete (Supply & Install)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 3-Concrete
 - 03-0000

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Design, fabricate, deliver, and install structural precast concrete framing systems as indicated and specified in the construction documents.
2. Comply with ACI 318 (ACI 318M) and design recommendations in PCI MNL 120, "PCI Design Handbook - Precast and Prestressed Concrete," applicable to types of precast structural concrete units.
3. Furnish and install cast-in anchors, inserts, plates, angles, and other anchorage hardware. Fabricate anchorage hardware with sufficient anchorage and embedment to comply with design requirements. Accurately position for the attachment of loose hardware, and secure in place during precasting operations. Locate anchorage hardware where it does not affect position of main reinforcement or concrete placement.
4. Comply with hot-weather and cold-weather concrete placement methods during fabrication.
5. Identify the pickup points of precast structural concrete units and orientation in structure with permanent markings, complying with markings indicated on Shop Drawings. Imprint or permanently mark the casting date on each precast structural concrete unit on a surface that will not show in finished structure.
6. Reinforce precast structural concrete units to resist handling, transportation, and erection stresses.
7. Prestress tendons for precast structural concrete units by either pre-tensioning or post-tensioning methods. Comply with PCI MNL 116.
8. Discard and replace precast structural concrete units that do not comply with requirements, including structural, manufacturing tolerance, and appearance, unless repairs meet requirements in PCI MNL 116 and meet Architect's approval.
9. Furnish and install loose connection hardware and anchorage items to be embedded in or attached to other construction. Provide locations, setting diagrams, templates, instructions, and directions for installation.
10. Include all taxes in this proposal
11. Include all cost for freight and off-loading of material. Coordinate lay down and staging areas with Project Superintendent at least 48 hours in advance of all material deliveries.
12. Provide and install dowels for slab.
13. Coordinate sleeves and block outs with M.E.P. contractors.
14. Provide and install all embeds as required.
15. Provide and install all bearing pads as required.
16. Provide openings where specified and located on contract or shop drawings.
17. Provide material and labor for structural grouting & dry packing of horizontal wall joints & connections.
18. Provide material and labor for jobsite patching of lifting inserts pockets, rebar, angles, stiffeners, miscellaneous touch-up.
19. Cast-in items for other trades if furnished and located by the appropriate subcontractor prior to fabrication of precast.

20. Provide copies of current welder's certificates prior to commencement of any work. Welder's certificates shall be kept on file at the job trailer and kept current at all times.
21. Erectors shall have at least 5 years of experience in the erection of precast structural concrete similar to the requirements of this project.

Section B: Project Specific Requirements:

1. Reference details of safe room for gym Reference Foundation Plan S101.4
2. Reference pg S204.1 Details 1-4 & 6
3. Precast Concrete Stairs A606-A608
4. Include all precast steps & risers included in plans.
5. Furnish all equipment needed necessary for installation.
6. This project will have multiple mobilizations.

Section C: Project-Specific Exclusions:

1. Project specific exclusion 1.
2. Project specific exclusion 2.

Section D: Project Alternates:

1. Deductive Alternate #8 courtyard stairs see plans for details.

Section E: Unit Pricing:

- Unit Price 1.

END OF BID PACKAGE

8. Light Gauge Framing, Drywall, Acoustical, Batt Insulation

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 5 Metals
 - 05-4000 Cold Formed Metal Framing

- Division 7 – Thermal and Moisture Protection
 - 07-2100 Thermal Insulation
 - 07-9200 Joint Sealants

- Division 9-Finishes
 - 09-2116 Gypsum Board Assemblies
 - 09-2116.23 Gypsum Board Shaft Wall Assemblies
 - 09-2226.23 Metal Suspension Systems
 - 09-5100 Acoustical Ceiling
 - 09-5113 Acoustical Panel Ceilings
 - 09-5400 Integrated Ceiling Assemblies
 - 09-8311 Acoustical Wall Systems
 - 09-8413 Foam Sound Panels

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Except where found to conflict with contract documents, adhere to requirements of the latest edition of the U.S. Gypsum Handbook for installation of gypsum board materials. Advise Construction Manager of all such discrepancies or conflicts in writing immediately.
2. Include layout for metal stud walls and ceilings.
3. Furnish and install all load-bearing and light-gauge steel studs and joists, steel runner, lintels, clip angles, hold-downs, furring channels, brackets, Z-furring, reinforcement, fasteners, and other accessories as required by the construction documents and as required for a complete metal framing system.
4. Install all framed openings and block-outs in drywall partitions, ceilings, furrdowns, and enclosures as required for the work of other trades.
5. Provide sheathing and gypsum board, moisture-resistant board, drywall control joints, acoustical caulking, high impact gypsum, shaftwall, weather resistant barriers and tile backerboard.
6. Provide UL listed fire rated assemblies as shown.
7. Furnish only weather barrier material at brick ties.
8. Furnish and install a weather barrier system on exterior sheathing. Including window flashing per manufacturer's recommendations.
9. Inspect all penetrations through the weather barriers system for proper sealing and bring all non-conforming penetrations to the attention of the superintendent.
10. Provide expansion joints in walls and ceiling joint systems as shown.
11. Furnish and install FRP and accessories where required.

12. Furnish and install all batt, blanket type and acoustical insulation per construction documents.
13. Insulate at steel beams as shown on construction documents.
14. Furnish and install board insulation (except where installed by BP 4 & 16).
15. Provide complete suspended ceiling framing systems, including all furring channels, hanger rods, flat hangers, wire, grid system, axiom trim, grid wires for light fixtures and other accessories.
16. Maintain true and level ceilings at heights indicated in the construction documents.
17. Coordinate installation of sprinkler heads, light fixtures, speakers, HVAC devices, access doors, and other appurtenances in ceilings.
18. Acoustical sound panels to be provided and installed per construction documents.
19. Provide and install all blocking (plywood, lumber, or metal strap) for millwork, doors, windows, frames, louvers, toilet accessories, marker boards, aluminum storefront systems, toilet partitions, fire extinguishers, panel boards for telephone system, or Owner-furnished items.
20. Set and install hollow metal frames (provided by others) in metal framing systems.

Section B: Project Specific Requirements:

1. Provide shop drawings for framing as specified in Spec Section 05-400 1.05 Submittals D.
2. Reference A200- A212 for Ceiling overall & type legends.
3. Provide & Install "Ceiling Cloud" A523
4. Provide & install all acoustical ceiling baffles.
5. This project will include multiple phasing with multiple mobilization
6. Include all equipment needed for construction in bid price.
7. Furnish & Install all ceiling types referenced in ceiling legends A200-A212.
8. Engineered stamp Framing Design required. See spec for details.
9. See spec book for all samples required to include acoustical ceiling and etc.
10. Comply with all seismic requirements per plans & specs.

Section C: Project-Specific Exclusions:

- 1.

Section D: Project Alternates:

1. Woodwork ACT. Change all areas of specified Woodworks ACT to Calla ACT System in all locations indicated to be Woodworks ACT in the entire project. See related specifications sections for all materials, fastener types, preparation, and execution requirements, etc. Deductive Alternate #10 – BP8.

END OF BID PACKAGE

9. Spray Foam Insulation

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 7 – Thermal and Moisture Protection
 - 07-2119 Foamed in Place Insulation

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Inspect substrates prior to installation. The start of installation will be construed as the applicator's acceptance of the surface conditions.
2. Provide all surface preparation and other accessories required.
3. Provide all trimming and clean up.
4. Provide touch up as needed.
5. Provide protection of adjacent materials to prevent over spray, and clean up of areas if occurs.
6. All general project specific clean up.

Section B: Project Specific Requirements:

1. Make sure all box headers and multi stud locations are foamed at exterior wall locations.

Section C: Project-Specific Exclusions:

1. Project specific exclusion 1.
2. Project specific exclusion 2.

Section D: Project Alternates:

2. Alternate 1.

Section E: Unit Pricing:

1. Unit Price 1.

END OF BID PACKAGE

10. Millwork and Carpentry

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 6 – Wood, Plastics and Composites
 - 06-1000 Rough Carpentry
 - 06-4100 Architectural Wood Casework
- Division 12- Finishings
 - 12-3600 Solid Surface Materials

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Provide samples of any exposed wood grain product and all millwork hardware with shop drawings submittal. Specifically request approval of color and finish selections of all laminate and hardware on shop drawings.
2. Visit project site and take field measurements before fabrication. Coordinate and schedule site visit with Project Superintendent.
3. Coordinate all material deliveries and sequence of installation with Project Superintendent no later than 30 days prior to start of work.
4. Furnish and install all cabinet units, shelving units, vanity units, countertops, splashes, running trim, display cases and windowsills as indicated in the construction documents.
5. Provide a sufficient amount of scribes and/or fillers as necessary for the complete installation of millwork.
6. Include all associated brackets and supports.
7. Furnish and install finish hardware for millwork and cabinetry including key locks per construction documents.
8. Furnish and install solid surface tops, sills and treads per contract documents.
9. Provide all necessary cut outs for plumbing and electrical fixtures as required, and all cut outs as required for appliances. Provide grommets at cut-outs for power or data cords.
10. Furnish and install approved and matching colored caulking for each color of plastic laminate or solid surface material supplied.
11. Set and adjust all door and drawer margins after installation at the project site.
12. Remove glues and resins, clean out wood and plastic laminate shavings from inside drawers and compartments, and wipe all dust from all millwork immediately after installation.
13. Provide protection of countertops after installation, to be removed at the direction of the Construction Manager.
14. Coordinate work as required with plumbing and electrical rough ins.

Section B: Project Specific Requirements:

1. Provide shop drawings indicating materials, component profiles and elevations, assembly methods, joint details, field verified dimensions, fastening methods, accessory listings, hardware location and schedule of finishes. Indicate requirements for wood blocking. Shop drawings will reference the

architectural drawing number and room number where the millwork can be found. Indicate plastic laminate locations for each cabinet type.

2. Provide samples as required from Spec book 06-4100.
3. Provide a portable mockup of typical base cabinet, wall cabinet, and countertop, including hardware, finishes, plumbing accessories, and stile and rail or panel construction. Locate where directed. Mockup may remain as part of the work if approved by the Architect in advance.
4. Reference/Include furnish & install of Millwork referenced in drawings A611, A617-A622, A624-A628, A638, & A650-A658 for details.
5. Reference A106 & A107 & A519 for Furnish & Install of Custom Case & Trophy Case.
6. Reference A519 Ticket Booth detail wall- Furnish & Install 2" x 2" Horizontal Accent Wood Panels with 1 ½ " spacing and Furnish & Install Ticket Booth Counter
7. Furnish & Installation of all Bathroom millwork
8. Reference Millwork details in Spec 06 4100
9. Furnish & Install slatwall panels(2) in Student Store A628
10. furnish & installation for kitchen cash registers(2)
11. Furnish & Install Auditorium wood veneer system Referenced in A523
12. Furnish all equipment necessary for installation.
13. Package includes all wood finished carpentry. Multiple locations, see plans.

Section C: Project-Specific Exclusions:

1. Millwork in the following areas: phys lab(3006), bio lab(3008), science prep 1(3007) & 2(3010), chem lab(3012), chem storage(3011), storage(3014) and science classroom(3013)

Section D: Project Alternates:

1. Alternate 1.

Section E: Unit Pricing:

1. Unit Price 1.

END OF BID PACKAGE

11. Laboratory Casework & Equipment (Supply & Install)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 11- Equipment
 - 11-5313 Laboratory Fume Hoods

- Division 12-Furnishings
 - 12-3553 Laboratory Casework

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Furnish, deliver and install wood laboratory casework. Level and anchor in locations indicated in the construction documents.
2. Include field measurements as required.
3. Furnish plumbing and electrical fixtures as defined in the construction documents. Installation will be by other trades.
4. Coordinate with all other applicable trades (MEP, etc.). Provide a list of items provided by others that will be required to complete the installation of the laboratory casework.
5. Furnish and install filler panels where required to close spaces between the casework and walls.
6. Coordinate all wood blocking requirements with the construction superintendent.
7. Trim/scribe casework to make neat installation. Casework should be plumb, level, true and straight with no distortions.
8. Furnish and install all hardware that is standard for the manufacturer's casework and hardware specifically indicated in the construction documents.
9. Include seam fill and caulking associated with cabinets and countertop installation.
10. Adjust doors and drawers to ensure a smooth operation without warping or binding.
11. Participate, assist, and comply with the Nabholz Quality Management System in accordance with the contract documents.
12. Remove glues and resins, clean out drawers and shelving, and wipe down casework.
13. Provide holes and cutouts required for electrical and mechanical items.
14. After installations of tops dress joints smooth, remove any surface scratches, clean and polish entire surface.
15. Furnish, install, maintain and eventually remove all protection of adjacent finishes as required.
16. Provide all lay-out associated with this package.

Section B: Project Specific Requirements:

1. Furnish & install all casework associated with Bio and Chem Labs Reference Pages A623 & A624. For the following rooms: phys lab(3006), bio lab(3008), science prep 1(3007) & 2(3010), chem lab(3012), chem storage(3011), storage(3014) and science classroom(3013).
2. All laboratory casework covered by the specification shall be the product of one manufacturer and be fabricated at one geographic location to assure shipping continuity and single-source responsibility.
3. Reference Drawings pages A623-A626 for plans & equipment legends
4. Reference spec section for Fume Hood details 11-5313

5. Include all equipment needed for installation.
6. All quotations from a manufacturer other than Leonard Peterson & Co., Inc. shall contain a review of the following capabilities:
 - a. List of shop facilities
 - b. List of engineering and manufacturing personnel
 - c. Proof of financial ability to fulfill the contract
 - d. List of a minimum of ten (10) installations over the last five (5) years of comparable scope
 - e. Proof of project management and installation capabilities
 - f. AWI Premium Grade Certification Number.
7. Warranty:
 - a. The selected manufacturer must warrant for a period of three (3) years, starting on the date of acceptance or occupancy, whichever comes first, that all products sold under the contract referenced above shall be free from defects in material and workmanship. Purchaser shall notify the manufacturer's representative immediately of any defective product. The manufacturer shall have a reasonable opportunity to inspect the goods. The purchaser shall return no product until receipt by purchaser of written shipping instructions from the manufacturer.
8. Sample:
 - a. Samples from non-specified manufacturers will be required and reviewed per specification. Samples shall be delivered, at no cost to the architect or owner to a destination set forth by the architect or owner. This must be done seven (7) days before quotation deadline as a condition of approval of each bidder. Samples shall be full size, production type samples. Miniature, or "Show Room" type samples are not acceptable. Furnish the following:
 - b. One combination drawer and cupboard base unit showing complete construction details, including one shelf.
 - c. One leg corner sample showing table construction.
 - d. One sample of all top materials shown or called for, of sufficient size to perform finish requirements test.
 - e. Sample of mechanical service fittings, locks, door pulls, hinges, and interior hardware and other material deemed necessary for review.

Section C: Project-Specific Exclusions:

1. All non laboratory millwork.
2. Project specific exclusion 2.

Section D: Project Alternates:

1. Alternate 1.

Section E: Unit Pricing:

1. Unit Price 1.

END OF BID PACKAGE

12. Waterproofing, Dampproofing, Joint Sealants

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 7 – Thermal and Moisture Protection
 - 07-1326 Self-Adhering Sheet Waterproofing Systems
 - 07-1416 Cold Fluid-Applied Waterproofing
 - 07 -2500 Air Barriers
 - 07-9200 Joint Sealants

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Provide weather-tight storage and heat to protect materials from freezing.
2. Provide all necessary surface preparation.
3. Provide waterproofing system(s) for below-grade surfaces, including membrane, flashing, protection board, rigid insulation, and drainage mat as required by the construction documents.
4. Provide damp proofing for below-grade and above-grade surfaces where unexposed to view per construction documents.
5. Provide water-repellent and elastomeric coatings for exposed concrete and masonry surfaces. Clean surfaces prior to commencement of work by construction documents.
6. Provide joint sealants and incidentals as necessary and per the bid documents at building exterior to secure a water-tight building envelope.
7. Include joint sealants in and surrounding site paving.
8. Confirm that materials furnished for this Bid Package are compatible with other materials furnished for other Bid Packages.
9. Provide all fluid applied weather barrier systems on all exterior walls.

Section B: Project Specific Requirements:

1. A607 – See Detail 2, composite drainage.
2. Furnish & install all waterproofing for elevator pits & shafts.
3. Provide all equipment necessary for installations.
4. Complete all waterproof testing as required.

Section C: Project-Specific Exclusions:

- 1.

Section D: Project Alternates:

- 1.

Section E: Unit Pricing:

1. Unit Price 1.

END OF BID PACKAGE

13. Curtain wall / Storefront, Glass, Glazing

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 8 – Openings
 - 08-4000 Entrances & Storefronts (Storefronts)
 - 08-4050 Glazed Curtain Walls (1600 Systems 2 SSG)
 - 08-4126 All-Glass Entrances & Storefronts (08-4113 Aluminum framed storefront)
 - 08-5653 Security Windows
 - 08-8000 Glazing
 - 08-8853 Security Glazing

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Verify actual field measurements from installed rough openings.
2. Clearly identify all tolerance requirements on dimensioned shop drawings. Initiate on-site coordination meetings with the Project Superintendent to ensure the proper fit and scheduling of this work with the work of others.
3. Clearly dimension stile heights and widths on shop drawings.
4. Furnish and install required scaffolding in strict accordance with Construction Manager’s safety policy. Comply with tie-off rules when working higher than 6 feet above grade. Provide necessary grade work as required to accommodate areas with steep slopes for erection of scaffolding systems
5. Provide hoisting and material handling.
6. Provide any blocking required for the installations associated with this package that may not be shown on the drawings.
7. Provide all aluminum and glass storefront systems, curtain wall systems, and entrances.
8. Provide all sills, trims, transoms, cladding, etching, associated exterior caulking, sealants, and adhesives, weather stripping, brake metal, etc.
9. Provide all miscellaneous flashings integral with storefront, curtainwall, or entrance systems.
10. Include steel reinforcement within aluminum framing if required.
11. Include fire safe insulation at floors if required for work covered by this trade scope.
12. Provide all related hardware not specifically provided by others. (Storefront picks up their own hardware)
13. Furnish and install aluminum metal, wood, plastic or clad windows including weather stripping, hardware, misc. related aluminum, trim, thresholds, anchors, bracket attachments, sealants and other accessories necessary for a complete installation.
14. Provide all glass products according to glass type schedules in the documents and as required by Code.
15. Furnish and install glass at hollow metal window frames and doors, wood frames and doors, plastic laminate doors and FRP doors. Include all sealants and gaskets.
16. Provide all non-framed glass mirrors.
17. Include final adjusting per contract documents.
18. Remove all labels and stickers from all components after installation.

19. Include final cleaning and install security tape across windows immediately after installation.
20. Prior to final Application for Payment, schedule and perform for Construction Manager a water (hose) infiltration test on all exterior work deemed complete and ready for Owner acceptance.

Section B: Project Specific Requirements:

1. Provide all glass components within finished carpentry and millwork assemblies.
2. Reference the following sections: (but not limited to)
 - a. Ticket Booth A100.4
 - b. Exterior Building Elevations A300-306
 - c. Wall Sections A407-A508
 - d. Airful Elevations A509-512
 - e. Hexagon Wall a518
 - f. Pressbox Glass A613
 - g. Student Store A628
 - h. Mirrors(IF Not framed)
 - i. Door Schedule A800-A801
 - j. Aluminum Frame Elevations A807-A811
 - k. Window Details A812-A815
 - l. Wall Schedule A816-A819
3. Furnish & Install all mockups as required per spec.
4. Provide all samples as required by spec.
5. Supply all submittals including but not limited to delegated design as required per spec.

Entrances & Storefronts (Storefronts):

Warranty:

A. Submit a warranty signed by the manufacturer, contractor, installer, agreeing to replace aluminum doors, windows, framing and glazing which fall in materials and workmanship within 2 years of the date of acceptance. Failure of materials or workmanship shall include, but not be limited to, failure in operation of doors, windows, and hardware, excessive leakage of air infiltration, excessive deflections, delamination of panels, deterioration of finish or metal in excess of normal weathering, and defect in accessories, weatherstripping, and other components of the work.

1. Submit 10-year warranty by manufacturer of polyvinylidene fluoride (PVDF) coating.

B. Manufacturer's Product Warranty: Submit, for Owner's acceptance, manufacturer's warranty for entrance system as follows:

1. Welded door corner construction shall be supported with a LIMITED LIFETIME WARRANTY for the life of the door under normal use. SEE SECTION 2.02, item C below for DOOR CONSTRUCTION.

Quality Assurance:

A. Fabricate exterior door and frame units to withstand the wind pressure loading shown or, or if not shown, 20 lbs. per sq. ft. on the gross area of the frames, doors, panels and glass, acting inward and also outward.

Glazed Curtain Walls (1600 Systems 2 SSG):

Warranty:

A. Submit written warranty agreeing to repair or replace defective materials and workmanship during the warranty period as follows:

1. General Warranty period is two (2) years from date of final acceptance.
2. Submit 10 year warranty on fluorocarbon finish system.
3. Submit 5 year warranty on anodized finish

See spec section 1.05 Performance Requirements

Quality Assurance:

- A. Installer must be a single firm with not less than 5 years of successful experience in erection of stock systems similar to systems required for this project.

All-Glass Entrances and Storefronts (08-4113 Aluminum Framed Storefront):

Warranty:

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of all-glass systems that do not comply with requirements or that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

Structural failures including excessive deflection.

Deterioration of metals, metal finishes, and other materials beyond normal weathering.

Failure of operating components.

Warranty Period: Two years from date of Substantial Completion, except as follows:

Concealed Floor Closers: 25 years from date of Substantial Completion.

Performance Requirements: please refer to spec section 1.03 under 08-4126

Security Windows:

Qualifications:

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum 10 years documented experience.
- B. Participates in a Quality Assurance validation Program.
- C. Facility Audit.

Warranty:

- B. Furnish manufacturer's standard warranty document, executed by an authorized Quik serv Corp. officer in which manufacturer agrees to repair or replace windows, drawers and air

curtains that fail in materials or workmanship within specified warranty period. This warranty is in addition to, and not a limitation of other rights Owner has under the contract.

Warranty Period:

- One year parts and labor from date of installation.
- Failures include, but are not limited to, the following:
 - Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
 - Structural failures including deflections exceeding 1/4 inch.
 - Failure of welds.
 - Excessive air leakage.
 - Faulty operation of sliding window hardware.
 - Faulty operation of transom drawers.
 - Faulty operation of air curtains.
 - Installer: Company specializing in installation of window systems specified with minimum three years documented experience

Glazing:

Fire Rated Glass:

A. Labeling: Permanently label each piece of glazing with certification label of a testing agency acceptable to authorities having jurisdiction. Label shall indicate manufacturer's name; test standard; whether glazing is permitted to be used in doors or openings; if permitted in openings, whether or not glazing has passed the hose-stream test; whether or not glazing meets 450 deg F (250 deg C) temperature-rise limitation; and the fire-resistance rating in minutes.

1. Fire-protection-rated glazing required to have a fire-protection rating of 20 minutes shall be exempt from the hose-stream test.

B. Fire Rating: Fire rating listed and labeled by UL for fire rating scheduled at opening locations on drawings, when tested in accordance with the following:

1. Walls: ASTM E119 or UL 263
2. Windows: NFPA 257 or UL 9
3. Doors: NFPA 252 or UL 10B or UL 10C

C. Vision Panels in Doors:

FRG-1 20-minute rating: Fire Protective Rated Tempered Glass, 1/4" thickness, and complying with 16 CFR 1201, Category II.

- a. Safti First; SuperLite I.

b. Technical Glass Products; Fireglass20.

FRG-2 45 minute or greater rating: Laminated Ceramic Glazing, Laminated glass made from two plies of clear, ceramic glass; 8-mm total thickness; and complying with 16 CFR 1201, Category II.

e. Safti First; Pyran Platinum L

b. Technical Glass Products; FireLite Plus.

D. Sidelights, Transoms and Windows: 1 hour or greater fire resistant rating. FRG-3 Fire-resistant-rated; and complying with 16 CFR 1201, Category II.

a. Technical Glass Products; Pyrostop.

b. Safti First; SuperLite II-XL

E. Glazing Compound for Fire-rated Glazing Materials:

1. Dow Corning 795 - Dow Corning Corp.

2. Silglaze-II 2800 - General Electric Co.

3. Spectrem 2 - Tremco Inc.

F. Setting Blocks: Neoprene, EPDM, or silicone; tested for compatibility with glazing compound; of 70 to 90 Shore A hardness.

G. Cleaners, Primers, and Sealers: Type recommended by manufacturer of glass and gaskets.

Security Glazing:

Warranty:

1. At project closeout, provide to Owner or Owners Representative an executed current copy of the manufacturer's standard limited warranty against manufacturing defect, outlining its terms, conditions, and exclusions from coverage.

Section C: Project-Specific Exclusions:

1. Project specific exclusion 1.
2. Project specific exclusion 2.

Section D: Project Alternates:

1. Alternate 1.

Section E: Unit Pricing:

1. Unit Price 1.

END OF BID PACKAGE

14. Metal Canopies

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 7 – Thermal and Moisture Protection
 - 07-9200 Joint Sealants

- Division 10 – Specialties

- o 10-7316 Metal Canopies

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. All accessories shall meet the performance specifications in the construction documents.
2. Supply and deliver canopies as indicated and specified in the construction documents.
3. All material will be handled, inventoried and protected this contractor until installation of the system. This site has limited space, thus there will not be an option for site storage until install.
4. All warranties shall commence on the date of Substantial Completion of the Project.

Section B: Project Specific Requirements:

1. Furnish and install all canopy assemblies, include mounting brackets, rods, fasteners, facia, trims, break metal, gutters, downspouts, and other facets of the canopies for a complete installation.
2. Coordinate with concrete contractor prior to installation.
3. Finishes to be provided as outlined in the documents. If they are deemed “custom colors” by the manufacturer, they are to be provided as such with no additional costs to the owner.
4. Include delegated design requirements.
5. Sub shop drawings, include plans, elevations, sections, details, and attachments to other work. The canopy supplier shall furnish complete canopy drawings signed and sealed by a professional engineer.
5. Furnish and install all components listed in the specifications and shown on the drawings.
6. Include the finishes of the canopy.
7. Verify utility locations prior to digging footings. Locates are the responsibility of this contractor.
8. Furnish and install waterproofing at anchor bolts if required.
9. Furnish and install all components including expansion material, grout fill, drainage outlet, and splash block.
10. Supply all samples as required per the Specs 10-7316.
11. Canopy Manufacturer shall provide a 20-year limited warranty against peeling, flaking, chipping of canopy deck when properly maintained, and pass on manufacturer’s warranties for accessory items.
12. Adhere to the acceptable manufacturer’s list referenced in the specifications under 2.01 Manufacturers unless otherwise approved by Architect.

END OF BID PACKAGE

15. Metal Panels Roof and Wall (Supply and Install)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 7 – Thermal and Moisture Protection
 - 07-2100 Thermal Insulation
 - 07-4213.13R Formed Metal Wall and Soffit Panels

- o 07-9200 Joint Sealants

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Fabricate as specified by manufacturer's standard procedure and processes to fulfill indicated performance requirements by laboratory testing.
2. Comply with indicated profiles and with dimensional and structural requirements.
3. Provide metal wall panel assemblies in strict compliance with specifications without failure due to defective manufacture, fabrication, installation or other defects in construction.
4. Provide metal panel soffits as shown in the construction documents.
5. Provide all necessary panel fasteners and anchorage systems.
6. Provide complete flashing and trim systems.
7. Provide all panel accessories per specifications and manufacturer's recommendations.
8. Provide panel sealants and joint sealants.
9. Furnish & Install Rigid Insulation associated with panel installation.

Section B: Project Specific Requirements:

1. System shall be field-curved to conform to conditions indicated.
2. Provide & install all Z furring, hat channels & board insulation only associated with BP 15 panels.
3. Provide all samples required per spec book.
4. Provide all warranties per spec book.
5. Provide all equipment required for installation.
6. Multiple phases are required for this job, include multiple mobilizations in bidding.
7. Ice & snow guards as required.

Section C: Project-Specific Exclusions:

1. Project specific exclusion 1.
2. Project specific exclusion 2.

Section D: Project Alternates:

1. Alternate 1.

Section E: Unit Pricing:

1. Unit Price 1.

END OF BID PACKAGE

16. ACM Panels (Supply and Install)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 7 – Thermal and Moisture Protection
 - 07-4264 Metal Composite Material Wall Panels
 - 07-9200 Joint Sealants

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Fabricate as specified by manufacturer’s standard procedure and processes to fulfill indicated performance requirements by laboratory testing.
2. Comply with indicated profiles and with dimensional and structural requirements.
3. Provide metal wall panel assemblies in strict compliance with specifications without failure due to defective manufacture, fabrication, installation or other defects in construction.
4. Provide metal panel soffits as shown in the construction documents.
5. Provide all necessary panel fasteners and anchorage systems.
6. Provide complete flashing and trim systems.
7. Provide all panel accessories per specifications and manufacturer’s recommendations.
8. Provide panel sealants and joint sealants.
9. Provide & install all Z furring & board insulation only associated with BP 16 panels.

Section B: Project Specific Requirements:

1. System shall be field-curved to conform to conditions indicated.
2. Submit stamped engineered shop drawings.
3. All mockups required per specifications.
- 4.

Section C: Project-Specific Exclusions:

- 1.

Section D: Project Alternates:

- Alternate 1.

Section E: Unit Pricing:

- Unit Price 1.

END OF BID PACKAGE

17. Membrane Roofing, Flashing, Sheet Metal

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 7 – Thermal and Moisture Protection
 - 07-5419 PVC Thermoplastic Single-ply Roofing
 - 07-5500 TPO Roofing
 - 07-6200 Sheet Metal Flashing and Trim
 - 07-7113 Manufactured Roof Specialties
 - 07-9200 Joint Sealants
 - 07-9513 Expansion Joint Cover Assemblies

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Confirm that materials furnished for this Bid Package are compatible with other materials furnished for other Bid Packages.
2. Should the roofing product manufacturer require standard details that conflict with the contract documents, drawings, details, or notes, Subcontractor must immediately notify Construction Manager in writing with a proposed method of resolution.
3. Review, approve, and accept all subsurfaces prior to installation.
4. All work shall, as a minimum, comply with industry accepted “best practices” and with the SMACNA “Architectural Sheet Metal Manual” criteria.
5. Comply with all wind uplift requirements of Owner and Owner agents.
6. Coordinate all deliveries of material with Project Superintendent. Secure, store, and protect all materials from weather.
7. Provide hoisting for materials provided in this Bid Package.
8. Provide a complete watertight roof system with related tapered insulation, flashing and counter flashing, coping, scuppers, expansion joints, ballast, gutters and downspouts, and caulking.
9. Provide manpower or safety barriers below all roof penetrations for protection of others during kettle discharge operation. Provide daily reports showing kettle discharge temperatures.
10. Provide a complete insulation system to provide positive drainage to roof drain, and to prevent ponding of water on roof surface. Provide tapered crickets at rooftop units, equipment, and roof perimeter.
11. Provide roof system that meets minimum insulation value as specified. Clearly confirm the minimum “R” value rating on shop drawings.
12. Cover all insulation installed each day. Do not shake out or leave unprotected any insulation which may become wet with dew or rainfall.
13. Provide all metal flashing and trim so that metal products match in color for the metal roof copings, flashing and trim.
14. Provide pitch pockets and flashing for miscellaneous penetrations of the roof.
15. Provide roof expansion joints and covers.
16. Provide walk-pads at the HVAC equipment as required to properly access all rooftop equipment.
17. Provide all miscellaneous roof accessories.
18. Install roof drains provided by plumbing subcontractor and set clamping rings. Coordinate with plumbing subcontractor for the proper installation of this work.

19. Coordinate with the HVAC and plumbing subcontractors to ensure that proposed locations of plumbing vents and rooftop equipment do not conflict with roofing manufacturer warranty requirements.
20. Immediately clean all areas or surfaces soiled by roofing operations.
21. Prior to demobilization, Subcontractor agrees to coordinate with Project Superintendent for the purpose of conducting a waterproof test.
22. All warranties must be signed by the roofing manufacturer's representative.

Section B: Project Specific Requirements:

1. Provide all metal work, flashing, coping, scuppers, gutters, downspouts and trim shall be pre-finished as noted in the specifications.
2. ~~Provide all soffits and fascia, including all trim.~~ Soffit to be picked up in BP15. Membrane Roofing will do their own trims & copings.
3. Furnish & install all welded corners if required. Welded is referring to the bonding method for PVC.
4. Provide all submittals & samples as referenced in Spec Book.
5. PVC Roofing: Provide shop drawings that indicate joint or termination detail conditions, conditions of interface with other materials, settling plan for tapered insulation, and contour rib layout.
6. PVC Roofing: Provide 2 samples 6"x6" in size illustrating membrane roofing.
7. PVC Roofing: Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum twenty years of documented experience.
8. PVS Roofing: Installer Qualifications: Company specializing in performing the work of this section:
 - a. With minimum 5 years documented experience
 - b. Approved by membrane manufacturer
 - c. Extend manufacturer's labor and materials guarantee
 - d. Extend manufacturer's No Dollar Limit Guarantee
9. PVC Roofing: Provide and install products from a single source.
10. TPO Roofing: Installer Qualifications are required to have a letter from manufacturer attesting that the roofing installer meets the specified qualifications.
11. TPO Roofing: Manufacturer Warranty: Elevate Building Products 20 year Red Shield Limited Warranty covering membrane, roof insulation, and membrane accessories. Please see 07-5500 section 1.07 Warranty for additional requirements and details.
12. TPO Roofing Manufacturer: Elevate Building Products(Formerly Firestone Building Products), or approved equal system by: GAF, Manville, or Carlisle.
13. Reference Pages: A123 and all additional section details.
14. Provide & install wood for coping & parapet wall.
15. Furnish & Install Roof Hatch needed for roof access ladder.

Changes
made
10/31/24-
KMW

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

5. Roofing System. Replace specified areas of 80 mil fully-adhered roofing system with 60 mil mechanically attached roofing system at all TPO locations indicated on the Architectural Drawings. Deductive Alternate #5 – BP17 Roofing system

Gymnasium/Storm Shelter Roof area must remain fully-adhered and mechanically fastened PVC roof system is to remain at locations indicated on Architectural drawings

END OF BID PACKAGE

18. Coiling Doors and Service Doors

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 8- Openings
 - 08-3323 Overhead Coiling Doors
 - 08-3326 Overhead Coiling Grilles
 - 08-3500 Overhead doors

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Furnish and install all overhead doors, frames, controls, and accessories for a fully functional, completely operating system.
2. Include all necessary materials to connect doors to structure.
3. Provide all necessary blocking or support that may be required for this work that is not shown on drawings.
4. Furnish & Install coiling doors and operating equipment complete with all necessary hardware, jamb and head molding strips, anchors, inserts, hangers, and equipment supports.
5. Furnish & Install 2 interior security gates.

Section B: Project Specific Requirements:

1. Provide all fire door accessories, including but not limited to fusible link. Ensure Fire rating is adhered to where applicable.
2. All warranties shall commence on the date of Substantial Completion of Project.
3. Utilize approved Manufacturer and Model unless a substitute has been requested and approved with the architect.
4. Comply with FEMA requirements on all FEMA Rated Overhead coiling doors.
5. Provide all documentation required for FEMA Rated Overhead coiling doors.
6. Shop drawings required for each installation and for special components not dimensioned or detailed in manufacturer's product data reference Section 08-3323 Part 1.2 B Shop Drawings
7. Provide samples for verification for each type of exposed finish on the following components in standard sizes: Curtain slats, bottom bar, guides, brackets, hood, locking device(s), include similar samples of accessories involving color selection.
8. Reference A800 & A801 for Coiling Doors Legend (K&M&I)
9. Furnish & install all coiling doors. Reference drawings for additional details.
10. Refer to spec book for all warranties involving BP 18.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

19. Tile and Commercial Flooring

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 7 – Thermal & Moisture Protection
 - 07-9200 Joint Sealants
 - 07-9513 Expansion joint Cover Assemblies
- Division 9 – Finishes
 - 09-3000 Tiling
 - 09-6500 Resilient Flooring
 - 09-6519 Resilient Tile Flooring
 - 09-6813 Tile Carpeting

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Furnish to Construction Manager a seaming layout plan for approval by Architect.
2. Inspect substrates prior to installation. The start of installation of floor covering will be construed as the applicator’s acceptance of the finish floor surface conditions.
3. Perform moisture test and give results to construction manager prior to commencement of work.
4. Provide all surface preparation, leveling, bonding agents and adhesive, carpet tack strips, patterns, transition strips, and other accessories required.
5. Surface preparation, provide and install up to 1 lb. of floor stone per 30SF of flooring. Floor stone not used in one area may be added to another area. Prime surfaces per mfg.’s directions if required.
6. Furnish and install all carpet and padding.
7. Furnish and install all resilient flooring and resilient base including treads and risers, transition strips, and stair nosing’s.
8. Furnish and install porcelain, ceramic, quarry, stone and marble tile.
9. Furnish and install elevator cab flooring. Furnish and install all expansion and construction joints including keyways, dowels and saw cutting as required.
10. Provide and install pre-formed cove base outside corners.
11. Provide and install all floor-to-floor expansion joint covers as required.
12. Provide initial cleaning of resilient materials, carpet, and tile upon completion of installation in strict accordance with the manufacturer’s recommendations.
13. Remove visible adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer. Remove protruding yarns from carpet surface.
14. Protect flooring against mars, marks, indentations, and other damage from construction. Use protection methods indicated or recommended by tile manufacturers.
15. Provide “extra stock” materials as identified in the construction documents.

Section B: Project Specific Requirements:

1. See Finish Legend on each page A900-A909
2. Expect multiple mobilizations due to project phasing.
3. Comply with a 3rd party slab moisture test required before installation, GC will coordinate.

4. Tile Samples: Submit Three (3) sets of samples for color selection and verification for the called out in Spec section 1.02 Submittals.
5. Installer's qualifications: Firm with not less than 5 years' experience of installation of systems similar in complexity to those required for this project.
6. Special Warranty for Carpet Tiles: Manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.
 - a. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
 - b. Failures include, but are not limited to, more than 10 percent edge raveling, snags, runs, dimensional stability, excess static discharge, loss of tuft bind strength, loss of face fiber, and delamination.
 - c. Warranty Period: Lifetime commercial limited from date of Substantial Completion.
7. Furnish & Install LVT Logo per plans & specs.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

20. Epoxy Flooring

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 9 – Finishes
 - Epoxy flooring See plans

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Include all surface preparation, leveling, bonding agents, and other accessories as required.
2. Furnish and install all epoxy flooring, divider strips, control joint strips, base cap, base divider strips and sealer.
3. Furnish and install all expansion and construction joints including keyways, dowels and saw cutting as required.
4. Installed epoxy flooring within tolerances as outlined in the construction documents.
5. Provide fresh air to avoid health hazards to all workers.
6. Provide necessary heat (if required) for completion of this scope.

Section B: Project Specific Requirements:

1. See Finish Legend on Each Page A900-A909
2. Comply with a 3rd party slab moisture test required before installation, GC will coordinate.
3. Expect multiple mobilizations due to phasing, plan accordingly.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

21. Stage Flooring

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 9 – Finishes
 - Stage Flooring – Refer to Drawings

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Perform moisture tests and give results to construction manager prior to commencement of work.
2. Inspect substrate prior to commencement of work. Commencement of work constitutes the acceptance of the substrate.
3. Provide vapor barrier required under manufacturer warranty.
4. Provide necessary sub-structure including wood blocking that may or may not be shown on drawings.
5. Furnish and install complete Stage flooring system per construction documents.
6. Cut and fit all flooring inserts for stage equipment that is furnished by others.
7. Provide protection for floor during construction.
8. Initial cleaning of floor upon completion of installation shall be in strict accordance with the manufacturer's recommendation. Furnish and install all expansion and construction joints including keyways, dowels and saw cutting as required.

Section B: Project Specific Requirements:

1. See Page SK025 for Stage floor details.
2. Provide warranties for all used products & workmanship as mentioned in the specs.
3. Comply with a 3rd party slab moisture test required before installation, GC will coordinate.
4. Expect multiple mobilizations due to phasing, plan accordingly.
5. Provide all samples and mockups per specs.
6. Responsible for all transitions from stage flooring to different flooring.
7. Coordinate all material acclimation with project Superintendent.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

22. Athletic Flooring

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 9 – Finishes
 - 09-6566 Resilient Athletic Flooring

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Third party moisture testing required prior to installation GC will coordinate.
2. Inspect substrate prior to commencement of work. Commencement of work constitutes the acceptance of the substrate.
3. Provide vapor barrier required under manufacturer warranty.
4. Provide necessary sub-structure including wood blocking that may or may not be shown on drawings.
5. Furnish and install complete athletic flooring system per construction documents.
6. Cut and fit all flooring inserts for sports equipment that is furnished by others.
7. Provide all court striping. Basketball, Volleyball and Pickle Ball.
8. Provide painting of logo before finish coat.
9. Provide protection for floor during construction.
10. Initial cleaning of floor upon completion of installation shall be in strict accordance with the manufacturer’s recommendation. Furnish and install all expansion and construction joints including keyways, dowels and saw cutting as required.

Section B: Project Specific Requirements:

1. See Finish Plan page A903 for (Sports floor Taraflex)
2. See page A108 for striping notes
3. Comply with a 3rd party slab moisture test required before installation, GC will coordinate.
4. WARRANTY
 - a. Special Limited Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace sports flooring that fails within specified warranty period.
 - b. Material warranty must be directed from the product manufacturer.
 - c. Material warranties from private label distributors are not valid.
 - d. Failures include, but are not limited to, the following:
 - e. Material manufacturing defects.
 - f. Failure due to substrate moisture exposure
6. Warranty Period: 15 years from date of substantial completion.
7. Manufacturer:
 - a. Manufacturing Qualifications:
 - b. ISO 9001 Certified.
 - c. ISO 14001 Certified.

- d. At least ten years' active experience in the manufacture and marketing of indoor resilient athletic flooring.
 - e. A provider of authorized installer training.
8. Installer:
- a. At least five years' experience in the installation of resilient athletic flooring.
 - b. Experience on at least five projects of similar size, type and complexity as this project.
 - c. Employer of workers for this Project who are competent in techniques required by manufacturers for resilient athletic flooring installation indicated.
9. Shop Drawings:
- a. Shop Drawings: Showing installation details and locations of borders, patterns, game lines, locations of floor inserts and seams.
10. Provide all floor prep required to install your product.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

23. Finish, Painting and Wallcovering

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 9 – Finishes
 - 09-2116 Gypsum Board Assemblies
 - 09-2116.23 Gypsum Board Shaft Wall Assemblies
 - 09-9000 Painting and Coating

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Include surface preparation.
2. Preparation – before applying paint or other surface treatments, clean the substrates of substances that could impair the bond of various coatings, remove oil and grease before cleaning. Do not begin to apply paint until unsatisfactory conditions have been corrected and surfaces are thoroughly dry. Remove efflorescence before painting cementations and masonry materials. Prepare and paint all miscellaneous metals include handrails, stairs, ladders and metal flashing which are not pre-finished.
3. Include taping and finishing of drywall surfaces.
4. Protect all adjacent surfaces against painting.
5. Provide all interior and exterior painting and staining of all surfaces shown to be field finished. Scope includes, but is not limited to, gypsum board, doors, frames, millwork, wood surfaces, metals, exposed concrete, and CMU.
6. Include painting of open structure ceilings as noted on finish schedule.
7. Paint mechanical and electrical equipment, ductwork, conduit and piping as required.
8. Include painting of open structure ceilings as noted on finish schedule.
9. Include glaze coatings as needed.
10. Includes touch up of walls, ceilings, and all other painted surfaces as required by industry standards.
11. Include interior caulking at hollow metal frames, window frames, storefront frames, sills and other beauty caulking as needed.
12. Furnish and install wall fabrics and cork wall coverings.
13. Include painted graphics.
14. Include stenciling of fire and smoke walls as required.
15. Tint each undercoat a lighter shade to simplify identification of each coat when multiple coats of the same material are applied. Tint undercoats to match the color of the finish coat but provide sufficient difference in the shade of undercoats to distinguish each separate coat.
16. Provide and install all corner bead.
17. Provide and install all control joints and edge trim.
18. Masonry needs to pick up joint Sealant exterior only. Painters will be responsible for everything on the interior envelope of the building.

Section B: Project Specific Requirements:

1. See Finish Legend pages A900-A909
2. See page A800-A801 for door schedule.
3. Paint Bathrooms screen wall 2"x2" hm pipes page A513 REFERENCE 2 ADDITIONAL
4. This project will have multiple mobilizations due to phasing and plan accordingly.
5. Furnish & Install marker wall coverings & tackable wall coverings per Plans Need Elevations & details
6. Mock-up:
 - a. See Section 01 4000 - Quality Requirements, for general requirements for mock-up.
 - b. Provide panel, 6 feet long by 3 feet wide, illustrating standard and custom coating color, texture, and finish. Specific colors for mock-up to be selected by Architect.
 - c. Provide door and frame assembly illustrating paint coating color, texture, and finish.
 - d. Locate where directed.
 - e. Mock-up may remain as part of the work if approved by Architect
7. Quality assurance 3 year experience:
 - a. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years experience.
 - b. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience.
8. Acceptable paints list:
 - a. Reference Part 2 Products section (D)
9. See page M103.2 – for detail on painting exposed duct in auditorium.
10. See page A107 – for spiral staircase inside auditorium to be field painted.
11. Please provide all equipment needed for work performed.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

1. Provide alternate price on Lump Sum Proposal form for field finishing wood doors in lieu of prefinished wood doors.

Section E: Unit Pricing:

END OF BID PACKAGE

24. Doors, Frames, Hardware (Supply)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 8 - Openings
 - 08 1113 – Hollow Metal Doors & Frames
 - 08 1416 – Flush Wood Doors
 - 08 7110 – Door Hardware

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Supplier agrees to furnish ALL items covered by the Sections referenced above and described herein.
2. Coordinate with superintendent for multiple shipments of materials throughout the duration of the project and as required by the project.

Doors, Frames and Hardware

3. Include cost of freight to jobsite. Coordinate all lay down and staging areas with Project Superintendent at least 48 hours in advance of all material deliveries.
4. Any discrepancy between the hollow metal, hardware and wood door schedules shall be immediately brought to the attention of Project Superintendent.
5. Furnish and deliver all hollow metal frames and mullions, including all anchors and accessories.
6. Furnish and deliver all hollow metal doors, wood doors and accessories.
7. Furnish and deliver FRP and laminate doors to jobsite.
8. All materials must be individually wrapped and protected, and clearly labeled and tagged.
9. All frames and doors must be rated as required and carry the appropriate underwriters label.
10. All doors must be pre-machined for finish hardware, undercut (as required), and pre-finished (if required by construction documents).
11. Include door cutouts, view lite kits, grilles, and stops.
12. Include all transoms and side panels as required.
13. Furnish and deliver all finish hardware, including cylinders for aluminum or glass doors.
14. Furnish and deliver temporary construction cores.
15. Include provisions for final keying. Include cost for coordination meeting with Owner Representative(s).
16. Provide low voltage transformers and wiring required for mag locks, hold opens, etc.

Section B: Project Specific Requirements:

1. See page A800 & A801 for Door Schedule
2. Show drawings:
 - a. See spec for Shop drawing details.
3. Warranty:
 - a. See spec for warranty details
4. Supply FEMA Rated doors & hardware per plans.
5. Frames to be shipped in advance of doors.

END OF BID PACKAGE

25. Signage Interior & Exterior

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Furnish and install interior and exterior signage as identified in the construction documents.
2. Provide dimensional characters from a specified manufacturer.

Section B: Project Specific Requirements:

1. See page A100.4 for Ticket booth signage.
2. See page A302 & 303 for Exterior signage.
3. See page A304 for Dimensional Letter signage
4. Furnish & Install Graphics for Bathroom Screen Walls(3) with 2"x2" HM Pipe reference A513
5. Furnish & Install all Honeycomb graphics referenced in A513-A518
6. Furnish & Install "Yellow Jacket" graphics on basketball walls referenced A514
7. Furnish & Install graphics in cafeteria A522
8. Samples: Need color samples needed for signage

Section C: Project-Specific Exclusions:

1. Exclude all interior room id signs(restrooms, classroom #'s, etc.)

Section D: Project Alternates:

1. Vinyl Wall Graphics. Omit all vinyl wall graphics in entire project that are indicated on Architectural drawings and are to be included in the base bid. See related specification sections for all materials, fastener types, preparation, and execution requirements. Etc. Deductive Alternate #9 – BP25 wall graphics

Section E: Unit Pricing:

END OF BID PACKAGE

26. Building Specialties (Supply)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 10 – Specialties
 - 10-1100 – Visual Display Boards
 - 10-2113 – Plastic Toilet Compartments
 - 10-2226 – Operable Partitions
 - 10-2600 – Wall and Door Protection
 - 10-2800 – Toilet Room Accessories
 - 10-4400 – Fire Protection Specialties
 - 10-7529 – Plaza Mounted Flagpoles
- Division 11 – Equipment
 - 11-6000 Welding Curtains

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. This is an all-inclusive bid package. Supplier agrees to furnish ALL items covered by the Sections referenced above and described herein.

Visual Display Devices

2. Supply all markerboards, tackboards, tack walls, and accessories from specified manufacturers.
3. Supply all material and associated hardware to provide complete installation for all sections of this package.
4. Furnish factory-built visual display boards, including factory-applied trim where indicated, completely assembled in one piece without joints. Store visual display units vertically with packing materials between each unit.
5. Ensure that the supplied product is the correct mounting type for the scheduled wall.
6. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim, and accessories necessary for complete installation.

Signage

7. Furnish all signage that complies with the ADA-ABA Accessibility Guidelines.
8. Include all room ID Signs (Classroom #'s, bathrooms, etc.)
9. Provide dimensional characters from a specified manufacturer.
10. Furnish all Bronze Plaque per specification and Owner / Architects approval.
11. All material will be handled, inventoried, and protected by the Construction Manager. The construction Manager will provide a secure lockup for storage.

Toilet Partitions & Accessories

12. Furnish all toilet compartments, screens, accessories, and hardware as indicated and specified.
13. Furnish all toilet and bath accessories and hardware as indicated and specified.
14. Furnish all toilet compartments, urinal screens, shower dividers, grab bars, sanitary-napkin vendor, sanitary-napkin disposal unit, mirror unit, fold down purse shelf, shower curtain rod, shower curtain, folding shower seat, surface soap dish, towel pin, electrical hand dryer, utility shelf, and mop and broom holders.

Fire Extinguishers and Emergency Key Cabinets

15. Supply all portable fire extinguishers and fire extinguisher cabinets as indicated and specified.
16. Provide maintenance data of fire protection cabinets and fire extinguishers to be included in maintenance manuals.
17. Coordinate type and capacity of fire extinguishers with fire protection cabinets to ensure fit and function.
18. Supply all Emergency Key Cabinet, coordinate type to ensure fit.

Flagpoles -

19. Furnish all flagpoles and required flags per specification.
20. All accessories shall meet the performance specifications in the construction documents.
21. Supply all material, equipment, and associated specialties hardware to provide a complete installation.
22. Furnish and deliver all mounting devices, accessories and fasteners required for complete installation.
23. For all products use specified manufacturer unless otherwise noted.
24. All warranties shall commence on the date of Substantial Completion of the Project.
25. Provide sleeves & coordinate with concrete subcontractor.

Section B: Project Specific Requirements:

1. See pages A629-A647 for Toilet room Accessories
2. See pages A513 for detail on marker board & Flat screen Television in Cafeteria

Visual Display Boards:

Warranty:

- A. Submit a "Life of the Building" warranty, stating that under normal usage and maintenance, and when installed in accordance with manufacturer's instructions and recommendations, Claridge porcelain enamel steel chalkboards and markerboards are guaranteed for the life of the building. Guarantee covers replacement of defective boards but does not include cost of removal or reinstallation

Plastic Toilet Compartments:

Warranty:

- A. Manufacturer's Limited Warranty: Provide manufacturer's standard 10 Year Commercial Limited Warranty against defects in solid surface sheet materials.

Operable Partitions:

Warranty:

11. Warranty period: Three (3) years.

Wall and Door Protection:

Warranty:

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of impact-resistant wall protection units that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
 - a. Structural failures.

Toilet Room Accessories:

Warranty:

- A. Furnish one (1) year guarantee against defects in materials and workmanship on all accessories. In addition to the above the following shall apply:
- B. Mirrors shall have a 15-year guarantee against silver spoilage.

Fire Protection Specialties:

Warranty:

Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace fire extinguishers that fail in materials or workmanship within specified warranty period.

- a. Warranty Period: Six (6) years from date of Substantial Completion.

Plaza-Mounted Flagpoles:

Source Limitations:

- a. Obtain flagpoles as complete units, including fittings, accessories, bases, and anchorage devices, from single source from single manufacturer.

Shop Drawings:

1. Include the following:
 - a. Delegated Design Submittals: For flagpoles.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

27. Food Service Equipment

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 11 – Equipment
 - 11-4000 Food Service Equipment

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Provide all material, equipment, and associated hardware to provide a complete installation for all sections of this package.
2. Ensure that equipment of standard manufacture is of the latest model or succeeding model at time of delivery and includes all standard accessories as designated in the latest catalog or the project manual.
3. Ensure that replacement parts for all components furnished will remain available for no less than 10 years after acceptance.
4. Comply with ADA for all line equipment.
5. Coordinate with other all other trades for installation of adjacent finishes, hoods, fire suppression systems, plumbing, and electrical connections.
6. Provide uncrating, setting-in-place, leveling, anchoring, and cleaning of new equipment, to be ready for fittings, controls, and utility connections by other trades.
7. Provide individual training modules for each piece of equipment furnished and installed under this package.

Section B: Project Specific Requirements:

1. Reference plan details FS-101-FS-502 & for schedules with legends.
2. Furnish and install all items associated with Food Service Equipment as mentioned in FS101-FS502 & A655 in plans.
3. Furnish and install all equipment (not millwork) associated with FACS Lab Equipment as shown on plan page A621 & equipment list referenced on page FS101.
4. Reference associated mechanical plans as needed in installation of kitchen/FACS lab equipment. Coordinate with trades as necessary.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

28. Bleachers (Stadium, Multi-Purpose - Portable)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 12 – Furnishings
 - 12 6200 – Portable Bleachers (Tilt and Roll)
 - 12 6313 – Stadium and Arena Bench Seating

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Furnish and install all bleachers (Stadium, Multi-Purpose – Portable)
2. Include all material, equipment, and associated hardware to provide a complete installation.
3. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
4. Provide special warranty for each section of this package, as specified; commencing on the date of substantial completion of the project.
5. Field verify dimensions prior to fabrication and delivery of bleachers. Dimensions will not be guaranteed.
6. Provide and install all Bleachers as specified. Provide Chair back for the noted section on the home bleachers.
7. Installer must coordinate Division 03 "Cast-in-Place Concrete" for installation of floor insert sleeves to be cast in concrete slabs and footings, cast in concrete slabs and footings.
8. Coordinate and install transition from bleachers to press box landing.
9. On bid package provide lead times for items that are long lead items (6+ weeks)
10. Provide Engineering stamped drawings before installation.

Section B: Project Specific Requirements:

1. See pages A100.2 & A100.3 for Football Home bleachers & Visitor bleachers
2. For elevations see pages A300-A303
3. Furnish & Install bleachers in basketball gym.
4. See all Warranty & submittal specifications in specs.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

29. Gymnasium Equipment

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 11 - Equipment
 - 11 6623 – Gymnasium Equipment

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. An installer is an employer trained and approved by manufacturer.
2. Provide and install all basketball goals and structural support, volleyball complete system, gym divider curtain(s), Multi -Sport Practice cages and wall pads as indicated and specified.
3. Installer must coordinate Division 03 "Cast-in-Place Concrete" for installation of floor insert sleeves to be cast in concrete slabs and footings, cast in concrete slabs and footings, and Division 26 for electrical service for motor operators, controls, and other powered devices for motorized gymnasium equipment.
4. Provide a special warranty for each section of this package, as specified, commencing on the date of substantial completion of the project.
5. Submit the necessary submittals (in electronic form) as necessary to maintain project schedule.
6. Furnish and install all athletic equipment and associate operators, structures, stands, chains, brackets, fasteners, padding, sleeves, grout, plates, escutcheons, and all material customarily included to provide a complete installation per construction documents.
7. All layout and field measurements shall be included for each section.
8. Installers must coordinate with Building Concrete Contractor for installation of floor insert sleeves to be cast in recessed void, and Electrical Contractor for electrical service for motor operators, controls, and other powered devices for motorized gymnasium equipment.
9. All scaffolding and hoisting as required by this scope of work.
10. All layout and field measurements shall be included for each section.
11. Final cleaning of equipment and material installed under this trade.
12. This contractor shall coordinate with the superintendent a minimum of 48 hours in advance of all material deliveries. Delivery is to be phased as requested by Nabholz project superintendent.
13. Cover and protect all slab areas that will receive special finishes as directed by General Contractor.
14. Provide owner training, O&M Manuals, and all other material necessary for instruction for all material furnished and installed under this package.
15. Coordinate with structural for layout and installation of basketball goals.
16. Meet seismic performance requirements for basketball goals/equipment. See specs for details.
17. Provide all layout coordination with Structural & GC.

Section B: Project Specific Requirements:

1. Reference pages A108 & A514 for Basketball goals (6).
2. Provide Warranty for 5 years from date of Substantial Completion

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

30. Lockers (Supply)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 10 - Specialties
 - 10 – See Drawings for details

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. All accessories shall meet the performance specifications in the construction documents.
2. Supply and deliver lockers as indicated and specified in the construction documents.
3. All material will be handled, inventoried and protected by Construction Manager. Construction Manager will provide a secure lockup for storage.
4. All warranties shall commence on the date of Substantial Completion of the Project.
5. Provide color sample.

Section B: Project Specific Requirements:

1. See Page A106 for Wenger lockers Instrument Storage rm 1072(Instrument Lockers)
2. See Page A108, A637 &A639 for 2 Tier Alum. Athletic Lockers IN Boy's locker room(rm1056) & girl's locker room (rm 1058)

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

31. Window Treatment

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 12 - Furnishing
 - 12 – Refer to drawings

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Furnish and install material, equipment, and associated hardware to provide a complete installation for window treatments.
2. Field verify dimensions prior to fabrication and delivery of window treatment. Dimensions will not be guaranteed.
3. Provide special warranty for each section of this package, as specified; commencing on the date of substantial completion of the project.
4. Furnish and install 2" horizontal blinds where indicated or required.
5. Furnish and install manual cloth-roller shades where indicated or required Project specific requirement.

Section B: Project Specific Requirements:

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

32. Audio Visual Equipment & Installation

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 27- Communications
 - 27-0534 Pathways and Infrastructure for AV Systems
 - 27-4115 Performance Audio Visual Systems and Equipment

All General Scope Requirements as outlined in Section 3.01

Section A: Trade- Specific Requirements

1. Provide owner training, O&M Manuals, and all other material necessary for instruction for all material furnished and installed under this package.
2. Coordinate with other trades as needed.
3. Include all material, equipment, and associated hardware to provide a complete installation.
4. Provide warranties for all work commencing on the date of substantial completion of the project.
5. All scaffolding and hoisting as required by this scope of work.
6. Final cleaning of equipment and material installed under this trade.
7. This contractor shall coordinate with the superintendent a minimum of 48 hours in advance of all material deliveries. Delivery is to be phased as requested by Nabholz project superintendent.
8. Provide owner training, O&M Manuals, and all other material necessary for instruction for all material

Section B: Project Specific Requirements:

1. Furnish & Install Flat Television Wall Feature in Cafeteria reference page a513 AV402 detail 4, reference schedule AV002
2. Theater Audio Visual Systems- Furnish & Install all stereo, projector & screen, See plan page AV400
3. TV Production Lab Systems
4. Furnish & Install all televisions in plans to include all mounting and rigging systems.
5. See all AV pages for Tv details along with Equipment schedule AV001-AV503

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

33. Fixed Audience Seating

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 12 – Furnishings
 - 12-6100 Fixed Auditorium Seating

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Furnish and install fixed audience seating systems.
2. Include all material, equipment, and associated hardware to provide a complete installation.
3. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
4. Provide special warranty for each section of this package, as specified; commencing on the date of substantial completion of the project.
5. Field verify dimensions prior to fabrication and delivery of window treatment. Dimensions will not be guaranteed.
6. This scope of work includes fabricating, freighting, delivering, off-loading, and installation of all material, equipment, and associated hardware to provide a complete installation for all seating including, fixed audience seating, tagging, molded plastic seating, railings, posts, boards, closures, and all other accessories required, customarily included, and reasonably expected in strict accordance with the construction documents.
7. This contractor to provide seating in quantity as shown, within the dimensions as shown. Seat reduction and/or dimension modifications will not be allowed.
8. Shop drawings, submittals, samples are required for all sections as required by the project specifications.
9. All sealants, adhesives, and caulking contiguous with this scope of work are the responsibility of this contractor.
10. Comply with ADA for all equipment as specified.
11. All coordination required between this contractor and electrical contractor to ensure all rough-in work is installed in the correct locations.
12. All layout and field measurements shall be included for each section.
13. This contractor shall allow for all mobilizations required to perform preconstruction site visits, Gymnasium Seating delivery, Gymnasium Seating installation, final inspection, punch list completion, and owner training and demonstration.
14. This contractor shall coordinate with the project superintendent a minimum of 48 hours in advance of all material deliveries. Delivery to be phased as requested by Nabholz project superintendent.
15. Cover and protect all slab areas that will receive special finishes as directed by General Contractor. PLEASE NOTE THAT MOST FLOOR FINISHES ARE EXPOSED CONCRETE AND ATHLETIC HARDWOOD FLOORING. EACH CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF CONCRETE DAMAGED DUE TO THEIR SCOPE OF WORK.
16. Daily clean-up required by activities of work.
17. Provide individual training modules, O&M Manuals, and all other material necessary for instruction in electronic format for each piece of equipment furnished and installed under this package

Section B: Project Specific Requirements:

1. Project specific requirement per A608.1 press box seating
2. Reference Fixed Seating Legend per TC101
3. Press box Seating reference A612
4. Warranty Periods: per spec book.

END OF BID PACKAGE

34. Auditorium Theater Stage Rigging and Curtains (supply & install)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
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 - 00-1004 Arkansas Historic Preservation Program Reference
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 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

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 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
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 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 11-Equipment
 - 11-6233 Stage Rigging and Curtain Systems

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. This scope of work includes furnishing and installation of all material, equipment, and associated hardware, brackets, painted track, fasteners and drilling, carriers, hooks, chains, ropes, and all other items necessary to provide a complete installation for Theater and Stage Equipment per construction documents.
2. All scaffolding and hoisting as required by this scope of work.
3. Shop drawings, submittals, samples are required for all sections as required by the project specifications.
4. All layout and field measurements shall be included for each section.
5. Final cleaning of equipment and material installed under this trade.
6. This contractor shall coordinate with the superintendent a minimum of 48 hours in advance of all material deliveries. Delivery is to be phased as requested by Nabholz project superintendent.
7. Cover and protect all slab areas that will receive special finishes as directed by General Contractor. PLEASE NOTE THAT MOST FLOOR FINISHES ARE EXPOSED CONCRETE. EACH CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF CONCRETE DAMAGED DUE TO THEIR SCOPE OF WORK.
8. Daily clean-up required by activities of work.
9. Provide owner training, O&M Manuals, and all other material necessary for instruction for all material furnished and installed under this package.
10. Provide lead times on bid form.
11. Provide all special testing see spec book for details.

Section B: Project Specific Requirements:

1. All equipment and installation shall be the responsibility of a single contractor. This contractor shall assume complete responsibility for the engineering, fabrication, transportation, and installation of the work in this section.
2. Reference approved fabricators, draperies, track & track misc. per spec 11-6233
3. Provide shop drawings and samples as stated in 11-6233
5. Professionally engineered stamped shop drawings required per specs.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

35. Fire Suppression

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
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 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
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 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
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 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 21-Fire Suppression -
 - 21-0500 Common Work Results for Fire Suppression
 - 21-0523 General-Duty Valves for Water-Based Fire-Suppression Piping
 - 21-0548 Vibration and Seismic Controls for Fire Suppression Piping and Equipment
 - 21-1100 Facility Fire Suppression Water-Service Piping
 - 21-1200 Fire-Suppression Standpipes
 - 21-1300 Fire-Suppression Sprinkler Systems
 - 21-3000 Fire Pumps

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Provide all hydraulic calculations and piping drawings.
2. Design, furnish, and install a complete Fire Suppression System that shall conform to the construction documents, NFPA, local ordinances and zoning restrictions, and all local authorities having jurisdiction.
3. In the case of differences between specification, codes, local and state laws, ordinances or contract documents, the most stringent governs.
4. Provide all fire protection service lines from any tap location to the building.
5. Include fire protection risers as needed (includes PIV, BFP, fire hydrants, FDC points and/or check/ball valves).
6. Provide systems as required for concealed spaces such as attics, stage floors, canopies, etc.
7. Provide erection of metal supports and anchorages for fire protection scope of work.
8. Coordinate with electrical, HVAC, and plumbing trades to avoid all layout conflicts.
9. Furnish to other trades any access doors needed for access to fire protection installation.
10. Provide hose valves, backflow devices, cabinets, and hoses per plans and specifications.
11. Provide all connections and attachments to existing fire suppression sprinkler system as required.
12. Provide fire-stopping assemblies where necessary for penetrations created by this scope of work.
13. Provide all compliance reports and certificates as required by specifications.
14. Include training of Owner's staff and provide manuals.
15. Provide all Seismic requirements per code.

Section B: Project Specific Requirements:

1. See the following pages for Fire Protection – F100-F501
2. See pages F201 & F501 for Fire protection details.
3. Shop drawings & Submittals submitted per specs & plans.
4. Provide engineered stamped as built drawings at the end of project.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

36. Plumbing

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
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 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 22 – Plumbing
 - 22-0513 Fire Pumps
 - 22-0517 Common Motor Requirements for Plumbing Equipment
 - 22-0529 Sleeves and sleeve seals for Plumbing piping
 - 22-0548 Hangers and supports plumbing piping and equipment
 - 22-0719 Vibration and Seismic Controls for plumbing piping and equipment
 - 22-1005 Plumbing piping insulation
 - 22-1006 Plumbing piping
 - 22-1113 Facility Water Distribution Piping
 - 22-1313 Facility Sanitary Sewers
 - 22-3000 Plumbing piping specialties
 - 22-4000 Plumbing Equipment

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. In the case of discrepancy between drawings, specifications, codes, local and state laws, ordinances, or contract documents, the most stringent governs.
2. Because of the drawing scales it is not possible to indicate all fittings and accessories that may be required. Include any and all fittings, offset, valves, etc., for a complete system.
3. Include temporary water supply.
4. Plumbing contractor to lay out all lines and elevations associated with this scope of work.
5. It is the responsibility of the plumbing contractor to verify the locations of all existing utilities and services as indicated on the drawings that are to be tied into prior to submitting a bid proposal. Failure to do so will result in the plumbing contractor assuming responsibility for any deviations of existing utilities from the construction documents.
6. Furnish all pipe bedding, cushion materials and thrust blocks per construction documents.
7. Provide gradation plan if required. Check all sewer line gradations with existing utilities prior to installation to ensure the required flow is achieved.
8. Upon completion of plumbing contractor's underground work, plumbing contractor is responsible to re-grade area, back fill and compaction to restore slopes and elevations to prevent standing water. Remove all spoils off site. Restore areas to the same state or better before work was commenced.
9. Dewater excavations associated with this trade as required to preserve structural integrity and workability.
10. Include removal and replacement of concrete and masonry as required to tie into existing services and utilities.
11. Verify locations of services prior to submitting a bid proposal.
12. Prior to placement of the concrete slab, all stub ups are to be capped to prevent any concrete debris from falling into sanitary waste and vent lines. After installation of all concrete slabs on grade provide camera inspections of all sanitary sewer and vent lines to verify that lines are free and clear of debris.
13. Furnish and install complete plumbing system per construction documents.
14. Include complete sanitary sewer system.
15. Include all natural gas piping required for this scope of work.
16. Furnish and install all domestic water piping required to complete this scope of work.
17. Include any utility company fees, impact costs, metering or vault costs Include penetration sleeves, saw cutting, and coring required for this scope of work.
18. Furnish on site storage as required by the construction manager for the storage of fixtures and equipment.

19. Include a plumbing representative to be on site during slab pours to ensure plumbing lines remain in place.
20. Include all hoisting and scaffolding as required.
21. Furnish and install all plumbing fixtures including but not limited to urinals, urinal carriers, toilets, sinks and drinking fountains.
22. Include shower and bath units including shower pans as required.
23. Include backflow preventers and tests.
24. Tie new sanitary sewer lines in the existing sanitary sewer system per construction documents.
25. Include all associated blocking, anchors, stenciling and tagging for this scope of work.
26. Include pipe supports associated with this scope of work. All miscellaneous steel, uni-strut, all thread rod and accessories required for pipe support, wall or floor penetrations and blocking as required.
27. Coordinate with other trades to locate sleeves, core drilling if needed and to ensure plumbing does not interfere with any other items.
28. Include all plumbing identification including color coding, stencil, labels tags, etc. per construction documents.
29. Include cutting, coring and patching required for plumbing installations.
30. Supply any access doors (24" x 24" min.) needed for access to plumbing equipment.
31. Install flashing or sealant at each exterior weather barrier penetration per weather barrier manufacturer's recommendation.
32. Include all final connections to Owner-furnished equipment.
33. Include final plumbing connections to laboratory equipment, food service equipment and casework. Coordinate with those trades for tie-in of plumbing items relating to those trade.
34. Furnish and install all appliance related plumbing as required.
35. Supply roof drains to be installed by roofing contractor. Include roof drain piping and connection to roof drains.
36. Furnish and install solid and/or grease intercepts per construction documents.
37. Include sealants (color selected by Architect) around all plumbing fixtures, sinks and lavatories.
38. Provide video scoping of all sanitary sewer lines to the outside of building prior to substantial completion and correct any blockages or deficient piping found.
39. Include cleaning, purging and flushing all lines when complete as related to this scope of work.
40. Ensure all equipment has adequate maintenance access when in place.
41. Clean up waste and debris generated by this scope of work and dispose on a daily basis and as directed by the construction manager.
42. Include documented instructional training to the owner's representative regarding the operation and maintenance of the plumbing systems.
43. All warranties for fixtures, devices, and equipment begin at date of Substantial Completion of Project. Coordinate the procurement of all paperwork, permits, fees and bonds necessary for the work covered under this agreement, bearing all cost associated.
44. Maintain storm water prevention plan in accordance with requirements of the local jurisdiction(s).
45. Provide all barricades, excavation protection, dust control, traffic control, and flagmen as necessary for the work.
46. Provide erosion control, maintenance of positive site drainage, and dewatering as it relates to the work.
47. Verify locations of existing utilities and services prior to commencement of work.
48. Do not interrupt existing utility serving occupied or operating facilities, except when authorized in writing by Owner and authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and to governing authorities.
49. Provide all layout and construction staking necessary to perform related scope of work.
50. Field engineering and site layout required to perform this scope of work.
51. Provide complete underground utility system from utility service main to location at building or as noted on construction documents.

52. Provide all excavation and backfill required for underground utilities.
53. Sewer line complete – Furnish and install all materials including structures and sleeves required, tie in to building sewer.
54. Water main complete – Furnish and install all materials including connection to city service, hydrants, thrust blocks, etc.
55. Gas main and meter complete – furnish and install including connection to utility service.
56. Furnish and install concrete structures as required.
57. Furnish and install backflow preventers and testing.
58. Coordinate testing with Project Superintendent and testing agency.
59. Pay for any retesting in the event of failed compaction test.
60. Provide test certificates for offsite fill if used.
61. Repair pavement and sidewalks including re-stripping where needed.
62. All cutting, patching, excavation, backfill and boring as required to construct utility lines.
63. Dewatering of the excavations associated with this scope of work as required. Preserve structural integrity and workability.
64. Clean and flush all lines when complete.
65. Dispose of all spoils offsite.
66. Provide all road clean-up required by activities of work.

Section B: Project Specific Requirements:

1. Plumbing Equipment and Fixture schedules and legends see plan page P001.
2. Provide and install all vents, indirect catch basin per construction documents including insect and bird screens.
3. Provide and install CW to Greenhouse, see plan page P101.2 Notes at Greenhouse.
4. Provide and install sump pumps for elevators per construction documents.
5. Provide and install check valve and full open valve on the discharge side of sump pumps.
6. Prior to work in Kitchen area, coordinate with GC and Kitchen Equipment Supplier for accuracy of rough in, see plan page P201 detail 2 Enlarged Plumbing Plan Kitchen.
7. See plumbing details pages P401-P402, P403.
8. Provide natural gas Service to building see Mechanical Keynotes , see plan page M101.
9. Natural gas piping schedule sizing and gas load sizing and see notes: – see plan page M104, see plan page M104.1, see plan page M301
10. Emergency eye wash and showers -provide and install.
11. Follow seismic requirements per code.
12. Furnish plumbing and electrical fixtures as defined in the construction documents, Installation will be by other trades.

Section C: Project-Specific Exclusions:

1. The Kitchen Equipment Schedule shown on Plan Page P001 will be included in Food Service Equipment Bid Package.

Section D: Project Alternates:

END OF BID PACKAGE

37. Heating, Ventilation, Air Conditioning

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

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 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 23 – HVAC
 - 23-0513 Common Motor Requirements for HVAC Equipment
 - 23-0548 Vibration and Seismic Controls for HVAC
 - 23-0553 Identification for HVAC piping and equipment
 - 23-0593 Testing, Adjusting , and Balancing for HVAC
 - 23-0713 Duct Insulation
 - 23-0913 Instrumentation and Control Devices for HVAC
 - 23-2300 Refrigerant Piping
 - 23-3100 HVAC Ducts and Casings
 - 23-3300 Air Duct Accessories
 - 23-3600 Air Terminal Units
 - 23-3700 Air Outlets and Inlets
 - 23-3813 Commercial Kitchen Hoods
 - 23-7413 Packaged Outdoor Central-Station Air-Handling Units
 - 23-7416 Packaged Rooftop Air-Conditioning Units
 - 23-8126.13 Small-Capacity Split-System Air Conditioners

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. HVAC contractor to provide equipment and ductwork shop drawings for coordination with other trades. Shop drawings are to include the locations and sizes of all duct work, equipment and equipment maintenance access.
2. Provide layout locations as needed for roof curb, exhaust fans, vents etc. during steel erection phase.
3. In the case of discrepancy between drawings, specifications, codes, local and state laws, ordinances, or contract documents, the most stringent governs.
4. Furnish and install a complete HVAC system.
5. Scope includes, but is not limited to equipment, supports, anchors, curbs, flashings, piping, duct work, insulation, controls, stenciling and labeling, VFD's, equipment disconnect switches, air venting devices, air exhausting devices, flow switches, condensation lines, dampers, diffusers, detectors, interconnection of instrumentation I/O control wiring systems, fuels, refrigerants and lubricants, supports for mechanical equipment, and other materials and devices as required for a complete HVAC system as per plans and specifications.
6. Because of the drawing scales it is not possible to indicate all fittings and accessories that may be required. Include any and all fittings, offset, valves, etc., for a complete system.
7. Provide conditioned air at the earliest possible date, as directed by Construction Manager, including all temporary and final air filters as required.
8. Supply any access doors (24" x 24" min.) needed for access to HVAC equipment.
9. Provide all sleeves, blocking, coring, and other associated caulking required for this scope of work.
10. Provide the necessary temporary air filters materials over permanent return air grills at all entrances to return air ducts weekly or as needed.
11. Include concrete cutting, coring and patching as required for the mechanical scope of work.
12. Include Automatic Temperature Controls and interlock wiring including control components and complete control wiring system in strict accordance with construction documents.
13. Furnish and install motor controllers and starters for mechanical equipment as specified.
14. Include roof curbs and penetration enclosures as required and per the roofing manufacturer's requirements to preserve the roof warranty.

15. Furnish and install louvers, access doors, grilles, and vents as required for this scope of work.
16. Include condensate piping.
17. Provide air filters including spare air filters for HVAC equipment. Furnish, install and maintain temporary filters during construction operations.
18. Furnish, install and maintain all roof penetrations, openings and curbs associated with this scope of work until all equipment has been installed and flashed in permanently. Remove and dispose of covers at the completion of work.
19. Duct detectors are to be furnished by the electrical contractor, installed by this scope of work, and terminated by the electrical contractor. Coordinate with the electrical contractor for wiring and terminations.
20. Coordinate with the electrical contractor for the location, size and installation of disconnects. The electrical contractor is to furnish and install disconnects. The locations are to be provided by the HVAC contractor.
21. Coordinate with food service or laboratory contractor for tie-in locations of mechanical items relating to their equipment. See Kitchen details pages – M403, M404, M405, M406, M407, M408, M409, M410
22. Furnish and install supports for return air boots as necessary.
23. Include all final connections to Owner-furnished equipment.
24. HVAC contractor shall provide & install the kitchen hood fire suppression system (Ansul) and all accessories (pull stations, bottles, etc.) per plans and specifications.
25. Include testing, adjusting and balancing documents per contract.
26. Include Commissioning per construction documents as required.
27. Include documented instructional training to the owner's representative regarding the operation and maintenance of the plumbing systems.
28. All warranties for fixtures, devices, and equipment begin at the date of Substantial Completion of Project.
29. Include warranty per construction documents on all equipment regardless of if used temporarily during construction for climatization.

Section B: Project Specific Requirements:

1. ICC 500 Shelter – design notes, see plan page M101.
2. Mechanical Keynotes, see plan page M101.1.
3. See plan page M101.4, ICC 500 Shelter- design notes, ICC 500 Shelter-ventilation and mechanical keynotes.
4. See HVAC pricing Note (s): plan page M102.2, plan page M102.3, plan page M102.4, plan page M103.1
5. Provide and install storm shelter cap penetration – see notes plan page M102.4.
6. See note – acoustical curbs. See plan page M104.
7. See note – vibration isolation curbs. See plan page M104.3.
8. HVAC details – see plan pages M401, M402.
9. HVAC controls – see plan pages M501, M502.
10. HVAC equipment schedules - see plan page M603.
11. Follow seismic requirements per code note #20 plan page M001.
12. Provide Lead times on bid form for equipment

Section C: Project-Specific Exclusions:

END OF BID PACKAGE

38. Electrical – Revised (10/29/24)

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

All General Scope Requirements as outlined in Section 3.01.

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 11 – Equipment
 - 11-6153 Stage Lighting Fixtures and Portable Equipment
 - 11-6163 Stage Lighting Power and Control System
- Division 26 – Electrical
 - 26-0519 Low Voltage Electrical Power Conductors and Cables
 - 26-0526 Grounding and Bonding for Electrical Systems
 - 26-0529 Hangers and Supports for Electrical Systems
 - 26-0533.13 Conduit for Electrical Systems
 - 26-0533.16 Boxes for Electrical Systems
 - 26-0548 Vibration and Seismic Controls for Electrical Systems
 - 26-0553 Identification for Electrical Systems
 - 26-0923 Lighting Control Devices
 - 26-0924 Lighting Controls Lutron Vive
 - 26-2100 Low Voltage Electrical Service Entrance
 - 26-2200 Low Voltage Transformers
 - 26-2416.23 Panelboards Schneider Electric Square D I lIne QMB
 - 26-2416 Panelboards
 - 26-2726 Wiring Devices
 - 26-2813 Fuses
 - 26-2816.13 Enclosed Circuit Breakers
 - 26-2816.16 Enclosed Switches
 - 26-3323 Central Battery Equipment
 - 26-4300 Surge Protective Devices
 - 26-5100 Interior Lighting
 - 26-5600 Exterior Lighting

Section A: Trade- Specific Requirements

1. This package includes all electrical- Bidders wishing to bid only electrical.
2. Communications, or electronic safety and security are advised to bid the respective package as described in the Construction Management Manual.
3. Provide all temporary lighting and power distribution in buildings as required for construction activities.
4. Provide all site power and/or lighting electrical work.
5. Provide all site trenching and duct banks needed for electrical and communication underground raceways and/or cables.
6. Deposit dirt spoils in an area on site designated by the Project Superintendent.
7. Provide any electrical meter fees or impact cost required by the local electrical service provider.
8. Provide any conduit, pull strings, j-boxes etc. for any Division 26, 27, or 28 empty raceway systems as required per plans and specifications.
9. Provide any building, primary/secondary electrical switchgear, panels, emergency power and/or generator systems as per plans and specifications.
10. Provide all raceway, wiring and terminations of VFD and/or starters that are furnished and installed by HVAC Subcontractor.
11. Provide any grounding systems, lightning protection systems, and certifications as required per plans and specifications.
12. Provide all final connections and terminations for Owner Furnished Equipment.

13. Provide all final electrical connections and terminations as required to equipment furnished and installed by other bid packages.
14. Provide equipment and device testing, checkout and/or load studies as required per plans and specifications.
15. Provide control wiring for automatic doors.
16. Duct detectors are to be furnished by the electrical contractor, installed by HVAC contractor and terminated by the electrical contractor. Coordination between HVAC contractor for wiring and terminations.
17. Coordination between HVAC contractor for location, size and installation of disconnects. The electrical contractor shall furnish and install disconnects. Locations to be provided by the HVAC contractor.
18. Provide rough in for owner door access (card readers).
19. Provide training of Owner's staff on electrical equipment.
20. Provide all raceway, wire, termination, poles, light fixtures, and grounding for site lighting. Concrete pole bases will be provided by others.
21. In the case of difference between drawings, specifications, codes local & state laws, ordinances or contract documents, the most stringent governs.
22. All warranties for fixtures, devices, equipment and gear begin at the date of Project's Substantial Completion.
23. Provide all raceways, wiring and terminations of Owner Furnished score boards in gym, coordinate with design team and GC for location.

Section B: Project Specific Requirements:

1. Electrical General notes, schedules and legends- see plan page E001 and E002.
2. Auditorium Electrical and Lighting
3. Enlarged Kitchen power plan see plan page E301.
4. One Line diagrams Electrical – see plan pages E401 and E402.
5. Panel Schedules – see plan pages E403, E404, E405, E406
6. See Electrical Detail Grounding procedure and communications Outlet detail– plan page E501.
7. Follow seismic requirements per code.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

1. Cafeteria Dining Ceiling. Change the Entire Cafeteria Dining Ceiling and Lighting Design to match the Media Center Ceiling and Lighting Design (Calla ACT System). See related specification sections for all materials, fastener types, preparation, and execution requirements. Etc.
Deductive Alternate #11 – BP8 and BP38 Cafeteria Dining Ceiling

Section E: Unit Pricing:

END OF BID PACKAGE

39. Data and Communications

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 27 - Communications
 - 27-0534 Pathways and Infrastructure for AV systems
 - 27-4115 Performance Audio Visual Systems and equipment

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. In the case of difference between drawings, specifications, codes local & state laws, ordinances or contract documents, the most stringent governs.
2. Include field measurements as required.
3. Provide all final connections and terminations for Owner Furnished Equipment.
4. Provide all final electrical connections and terminations as required to equipment furnished and installed by other bid packages.
5. Provide and install all equipment and device testing, checkout and/or load studies as required per plans and specifications.
6. Provide and install all access control equipment per construction documentation.
7. Provide training of Owner's staff on communication system access control and equipment.
8. All warranties for fixtures, devices, equipment and gear begin at the date of the Project's Substantial Completion.

Section B: Project Specific Requirements:

1. See E sheets power plans for drop locations, coordinate with GC prior to rough in.
2. See spec section 07-4115 for equipment part 2 products
3. Access Controls
4. Intercom

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

40. Fire Alarm Complete

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
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 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
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 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 28 – Electronic Safety and Security
 - 28-4600 Fire Detection and Alarm

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. In the case of difference between drawings, specifications, codes local & state laws, ordinances or contract documents, the most stringent governs.
2. Include field measurements as required.
3. Provide all final connections and terminations for Owner Furnished Equipment.
4. Provide all final electrical connections and terminations as required to equipment furnished and installed by other bid packages.
5. Provide equipment and device testing, checkout and/or load studies as required per plans and specifications.
6. Provide training of Owner's staff on electronic safety and security system or equipment.
7. All warranties for fixtures, devices, equipment and gear begin at the date of the Project's Substantial Completion.

Section B: Project Specific Requirements:

1. Fire Alarm Device Schedule – see plan page E001.
2. Fire Alarm Notes and Riser detail – see plan page E501.
3. Fire Alarm system must match the Wynne Campus (weight room, fieldhouse, locker room, arena) existing system.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

41. Elevators

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 14 – Conveying Systems
 - 14-2123.16 Machine Room-Less Electronic Passenger Elevators

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Use Suggested manufacturer or one listed that has an approved product.
2. Furnish all field engineering and measurements including but not limited to lay out, locations and elevations.
3. Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
4. Furnish and install all material, equipment, and associated hardware to provide a complete installation of elevators, vertical platform lifts, and inclined platform lifts.
5. Include all hoisting of elevator equipment and related materials.
6. Coordinate installation with all relating sections as follows Divisions "3 Cast In Place Concrete", " 4 Unit Masonry", " 9 Painting", " 26 Electrical Service", "28 Electronic Safety and Security".
7. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products"
8. Examine with Installer present, for compliance with requirements for installation tolerances, critical dimensions, and other conditions affecting performance.
9. Train Owner representatives for proper equipment usage Provide special warranty for each section of this package, as specified; commencing on the date of substantial completion of the project.

Section B: Project Specific Requirements:

1. Elevator cars to be key operated.
2. Provide Lead time on bid form.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

42. Asphalt Paving

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 32 – Exterior Improvements
 - 32-1123 Aggregate Base Course
 - 32-1216 Asphalt Paving

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Provide barricades, excavation protection, traffic control, and flagmen as necessary for this work.
2. Repair and fine grade sub-grade ready to accept base course.
3. Asphalt and gravel base quantities are to be all inclusive in this package. Quantities will not be qualified and increased at a later date. Factor all necessary material to totally complete this scope.
4. Provide and install aggregate base and asphalt pavement as indicated and specified in the construction documents.
5. Provide all road clean-up required by activities of this work.
6. Coordinate with sidewalk contractor (by others) for concrete ramp and curb transition. Provide the gutter portion of the curb and gutter at ramp locations, with the curb terminated where top of ramp starts.

Section B: Project Specific Requirements:

1. Project will require multiple mobilizations during phasing of the exterior improvements. First will be for binder course per phase. The final will be for the final asphalt at the project completion March 2027.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

43. Pavement Marking

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 32 – Exterior Improvement
 - 32-1723 Pavement Markings

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Provide all layout and field measurements.
2. Provide barricades, traffic control, and flagmen as necessary for this work.
3. Provide all striping and pavement markings as shown on drawings.
4. Provide painting of fire lanes and pipe bollards.
5. Provide all traffic signage, handicapped signage, including concrete footings necessary to support signs.
6. Multiple mobilizations may be necessary.
7. Provide guardrails as shown in drawings.
8. Provide parking bumpers as shown in drawings.

Section B: Project Specific Requirements:

1. South Parking Lot- Football Striping for Band Practice see sheet C1.03

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

END OF BID PACKAGE

44. Fencing and Gates

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 32 – Exterior Improvement
 - 32-3113 Chain Link Fences and Gates
 - 32-XXXX Ornamental Fences and Gates – Refer to drawings

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Provide barricades, excavation protection, traffic control, and flagmen as necessary for this work.
2. Provide all layout and field measurements.
3. Furnish and install all materials necessary for a complete all fencing systems and gates as shown in the construction documents.
4. Provide any concrete necessary to complete this work.
5. Furnish all the hardware necessary to complete this work.

Section B: Project Specific Requirements:

1. Provide and install all manual steel pipe swing gates – see detail 4 plan page C5.01
2. All Chain Link Fencing and Gates to be coated with black PVC per specifications.

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

1. Provide Alternate to change 4' chain link fencing to ornamental iron fencing and gates at location visitor bleachers see plan page C1.06, and all the way around the track see plan page C1.07, all the way around track by ticket booth up to home bleachers see plan page C1.03

Section E: Unit Pricing:

END OF BID PACKAGE

45. Landscaping and Irrigation

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 32 – Exterior Improvements
 - 32-8400 Landscape Irrigation performance specification
 - 32-9113 Soil preparation
 - 32-9200 Turf and grasses
 - 32-9300 Plants

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. Coordinate the procurement of all paperwork, permits and bonds necessary for the work covered under this agreement, bearing all cost associated with the same, including impact fees.
2. Provide barricades, excavation protection, traffic control, and flagmen as necessary for this work.
3. Provide all material and perform all work to provide a complete landscaping system in strict accordance with construction documents.
4. Furnish and install topsoil.
5. Provide final machine/hand grading of topsoil as required to ensure proper drainage away from buildings and walks. Remove deleterious materials and rocks from topsoil.
6. Provide and install a complete irrigation systems per construction drawings.
7. Furnish and install sleeves.
8. Furnish and install hardscape materials as shown.
9. Provide initial maintenance as required by construction documents.
10. Kill existing vegetation prior to the installation of sod.
11. Roll sod as required to provide uniformity and proper contact with soil.
12. Provide and install all trees, shrubs, and plants as outlined in construction documents.
13. Provide all plantings and ground treatments (grass seed and/or sod) as outlined in the documents.
14. Provide watering/water trucks as required to provide compaction and to control dust.
15. Provide all road clean-up required by activities of this work.
16. Provide all warranties on trees, plants and shrubs as outlined in construction documents.

Section B: Project Specific Requirements:

1. Includes Tree Well detail 5 plan page C5.03
2. Includes Tree Grate detail 6 plan page C5.03
3. Includes Tree planting at broken concrete detail 7 plan page C5.03
4. Landscaping schedules and notes: see plan page L1.10
5. Landscaping irrigation legend and notes: see plan page IR1.00 & IR1.01
6. Provide engineered stamped landscaping & irrigation plans.

Section C: Project-Specific Exclusions:

1. Exclude all hydroseeding.

Section D: Project Alternates:

1. Deductive Alternate #2 BP45 Stream Restoration Planting– L1.05 & L1.06
2. Deductive Alternate for #1 – BP45 Paver Grates C1.03 & C1.05

Section E: Unit Pricing:

END OF BID PACKAGE

46. Tennis Courts Complete

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

All General Scope Requirements as outlined in Section 3.01.

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

- Division 3 – Concrete (as applicable to tennis courts only)
- Division 7 – Thermal and Moisture Protection

- Division 13 – Special Construction
 - Tennis Courts Complete
 - Tennis Equipment
 - Tennis Court Surface Color Coating System

Section B: Trade-Specific Requirements

1. Tennis equipment is furnished and installed as shown on the drawings/specs and all items required for a complete and proper installation. Includes layout for all tennis equipment items.
2. Tennis net furnished and installed, including foundation, sleeves, posts, etc.
3. Center strap furnished and installed, including foundation, sleeves, etc.
4. Coordinate with all parties for proper installation.
5. Warranty calls made in connection with this work, including those that turn out to be other responsibilities, are at no cost to the owner or construction manager.

Section B: Project Specific Requirements:

1. Foundation/Post Tensioned Slabs Shall Be Designed by an Engineer Registered to Practice in Arkansas
2. Provide and install post tension concrete slab
3. Provide and install surface coating system and game lines complete, including pickle ball game lines
4. Provide and install all net system with posts and all components
5. Include concrete slab, acrylic resurfaces, texture course, finish course, and game lines.

Section C: Project-Specific Exclusions:

1. Fencing
 - b. Concrete outside fence

Section D: Project Alternates:

1. Tennis Courts. Omit two (2) of the Four (4) Tennis Courts and all associated Concrete, Sidewalks, Fencing, Broken Concrete pavement and drainage infrastructure (2 of the 3 north courts) plan page C4.06

END OF BID PACKAGE

47. Greenhouse – Supply & Installation

SCOPE OF WORK

Subcontractor or Supplier agrees that the Base Bid amount entered above includes the following project-related activities and Scope of Work in accordance with the requirements of the specifications, drawings, and CM Manual. Unless noted otherwise subcontractor will furnish all equipment, materials, labor, supplies, tools, scaffolding, hoisting, transportation, unloading, and handling necessary for the proper installation and completion of this work.

APPLICABLE SPECIFICATIONS

- Division 0 – Introductory Information, Procurement, and Contracting Requirements
 - 00-0101 Cover Sheet
 - 00-0110 Table of Contents
 - 00-0900 Engineering Inspections and Observations
 - 00-1002 Endangered Species ACT Compliance
 - 00-1003 Stormwater Historic Preservation Program
 - 00-1004 Arkansas Historic Preservation Program Reference
 - 00-7213 General Conditions of the Contract
 - 00-7316 Supplementary Conditions of the Contract
 - 00-9313 Request For Information

- Division 1 – General Requirements
 - 01-1000 Summary
 - 01-2000 Price and Payment Procedures
 - 01-2300 Alternates
 - 01-2500 Substitution Procedures
 - 01-2900 Payment Procedures (Davis-Bacon)
 - 01-3000 Administrative Requirements
 - 01-3010 Weather Delays
 - 01-3216 Construction Progress Schedule
 - 01-3553 Security Procedures
 - 01-4000 Quality Requirements
 - 01-5000 Temporary Facilities and Controls
 - 01-5100 Temporary Utilities
 - 01-5639 Temporary Tree and Plant Protection
 - 01-5713 Temporary Erosion and Sediment Control
 - 01-6000 Product Requirements
 - 01-7000 Contract Closeouts
 - 01-7100 Execution Requirements
 - 01-7200 Project Record Documents
 - 01-7250 Project Warranties, Operation and Maintenance Data
 - 01-7500 Cleaning

All General Scope Requirements as outlined in Section 3.01.

Section A: Trade- Specific Requirements

1. All work shall be fabricated and installed from approved shop drawings and design engineering calculations. It is incumbent upon this Supplier to confirm that he has the latest approved "field use" drawings prior to start of his work.
2. Engineering to include, but is not limited to loads for aluminum structural items and any other items attached to the building.
3. Furnish and Install all wall glazing (polycarbonate) and aluminum doors, glazing, and hardware.
4. Fabricate and deliver all pre-engineered primary aluminum framing members, secondary framing members, bracing, bridging, and fasteners as indicated in the construction documents and as required for a complete, sound structural system.
5. Furnish miscellaneous framing/support for mechanical, plumbing, and electrical equipment.
6. Fabricate and deliver all rough hardware, bearing and leveling plates, miscellaneous aluminum trim, & anchor bolts.
7. This scope of work includes fabricating, freighting, delivering, off-loading, and installation of all material, equipment, and associated hardware to provide a complete installation for the Greenhouse System including engineering, structure, posts, boards, closures, and all other accessories required, customarily included, and reasonably expected in strict accordance with the construction documents. Coordinate all lay down and staging areas with Project Superintendent at least 48 hours in advance of all material deliveries
8. Roof vents, doors, gutters and downspouts to match building construction at Greenhouse only are the responsibility of this contractor.
9. Shop drawings, submittals, samples are required for all sections as required by the project specifications.
10. All sealants, adhesives, and caulking contiguous with this scope of work are the responsibility of this contractor.
11. All coordination required between this contractor and other contractors to ensure all rough-in work is installed in the correct locations.
12. All layout and field measurements shall be included for each section.
13. This contractor shall allow for all mobilizations required to perform preconstruction site visits, Greenhouse delivery and off loading, Greenhouse installation, final inspection, punchlist completion, and owner training and demonstration.
14. This contractor shall coordinate with the project superintendent a minimum of 48 hours in advance of all material deliveries. Delivery to be phased as requested by Nabholz project superintendent.
15. Daily clean-up required by activities of work.
16. Provide individual training modules, O&M Manuals, and all other material necessary for instruction in electronic format for each piece of equipment furnished and installed under this package.

Section B: Project Specific Requirements:

Section C: Project-Specific Exclusions:

Section D: Project Alternates:

Section E: Unit Pricing:

4.00 SCHEDULE

1. All activities related to Bidder's Scope of Work shall be completed within the schedules prepared by and agreed to by Construction Manager. All Subcontractors and Suppliers shall procure materials and provide the manpower necessary to meet the Project Construction Schedule. Estimated time periods for construction are: February 2025 through January 2027.
2. A Preliminary Construction Schedule will be provided to all Subcontractors and Suppliers with Project Contracts. Meetings will then be held with all Subcontractors and Suppliers for the purpose of receiving and coordinating input relating to duration and scheduling of project activities, which will be used to produce the actual Project Construction Schedule.
3. All Subcontractors and Suppliers shall be ready to commence work as required by the Project Construction Schedule and immediately upon receiving Notice to Proceed; and receipt from Subcontractor of executed Master and Project Contract Documents, Insurance that complies with Nabholz requirements, and Performance and Payment bonds (if required). In addition, all Subcontractors and Suppliers shall be prepared to provide shop drawings and/or submittals immediately upon award of contract and in no case no later than 30 days after award of contract.

5.00 OTHER FORMS

.01 Insurance Requirements

CONSTRUCTION MANAGER WILL NOT AUTHORIZE PAYMENTS TO SUBCONTRACTOR UNLESS SUBCONTRACTOR'S CURRENT CERTIFICATE OF INSURANCE AND CERTIFICATE OF SAFETY AND HEALTH IS ON FILE AND APPROVED.

FOLLOWING ARE MINIMAL INSURANCE REQUIREMENTS FOR SUBCONTRACTORS. WHERE THESE GENERAL REQUIREMENTS ARE LESS THAN THE REQUIREMENTS SET BY THE CONTRACT DOCUMENTS, THE CONTRACT DOCUMENTS WILL PREVAIL.

1. Commercial General Liability, no less than:

Each occurrence:	\$2,000,000
General aggregate (project specific):	\$2,000,000
Products/completed operations aggregate:	\$2,000,000

Policy shall contain no less than the following:

- a. Policy form ISO CG 00 01, or equivalent.
- b. Coverage shall be primary and non-contributory.
- c. ISO standard severability of interest's clause and separation of insureds clause.
- d. Claims-made policies are not acceptable
- e. Policy shall contain no EIFS exclusion.
- f. Policy shall contain no subsidence or earth movement exclusions.
- g. Policy shall contain no prior work exclusions.
- h. Policy shall contain no cross-liability exclusion, except for Named Insureds.
- i. Policy shall contain no breach of contract exclusions.
- j. Policy shall contain no action-over or similar employee-injury exclusion.
- k. Policy shall contain no exclusion for work from heights.
- l. Policy shall contain no exclusions for occurrences causing continuous or progressively deteriorating injury or damage.
- m. Policy shall contain no exclusion for damage to work performed by subcontractors on your behalf.
- n. Any professional liability exclusion must contain an exception for construction means and methods.
- o. ISO CG 24 04, or equivalent endorsement form waiving subrogation.

- p. ISO CG 20 10 10 01 and CG 20 37 10 01, or equivalent blanket additional insured endorsement(s) for ongoing and completed operations. Additional insured status shall not be limited to comparative negligence or vicarious liability of the Construction Manager, or respondeat superior liability for the acts or omissions of Subcontractor. In the event this requirement is not permitted by state law, the provision shall be interpreted and applied to the extent permitted by applicable law. Regardless of the form of endorsement used, it shall require the maximum scope of coverage allowed under law.
- q. Additional insured endorsements shall accompany Certificate of Insurance.

2. Commercial Automobile Liability Insurance, no less than:

Combined single limit: \$2,000,000

Policy shall contain no less than the following:

- a. Coverage for “any auto,” including owned, non-owned, and hired motor vehicles.
- b. Additional insured endorsement or omnibus clause.
- c. Waiver of subrogation endorsement.
- d. ISO CA 20 70, if Subcontractor’s work will be performed within 50 feet of a railroad.
- e. ISO CA 99 48 10 01 and MCS-90, if Subcontractor’s work involves the transport of pollutants.

3. Workers’ Compensation and Employer’s Liability Insurance, no less than:

Workers’ Compensation:	Per Statute
EL Each Accident	\$1,000,000
EL Disease – EA Employee	\$1,000,000
EL Disease – Policy Limit	\$1,000,000

Policy shall contain no less than the following:

- a. Other States coverage shall be included.
- b. Jones Act coverage shall be included, if applicable.
- c. USL&H coverage shall be included, if applicable.
- d. Policy shall contain a Voluntary Compensation Endorsement (or equivalent) providing coverage for executive officers, partners, and sole proprietors if coverage is not otherwise scheduled on the workers’ compensation policy.
- e. Waiver of subrogation endorsement, if permitted by law.
- f. Alternate Employer Endorsement of NCCI Form WC 00 03 01 A, if Subcontractor uses an employee leasing firm or will supply equipment with an operator.
- g. Maritime Coverage Endorsement, if applicable.

4. Umbrella Liability or Excess Liability Insurance, no less than:

Each Occurrence	\$1,000,000
General Aggregate	\$1,000,000

If Subcontractor uses Umbrella or Excess Liability Insurance to arrive at the limits required herein for Commercial General Liability, Automobile Liability, or Employer’s Liability insurance, such insurance shall follow-form with any primary policies and must retain a minimum limit of \$1,000,000 after accounting for partial application of its limits to underlying policies.

5. Pollution Liability Insurance

Pollution Liability Insurance is required if Subcontractor will be performing mechanical, electrical, plumbing, drilling/subsurface activities, demolition, drywall/insulation, building envelope system, moisture barrier protection application, environmental remediation, or if Subcontractor will be handling, disposing, or installing hazardous materials or pollutants. If applicable, limits shall be no less than:

Each Occurrence	\$2,000,000
General Aggregate	\$2,000,000

Policy shall contain no less than the following:

- a. Coverage may be provided on a Pollution Liability policy or endorsement to Commercial General Liability policy that provide coverage for bodily injury and property damage arising from a sudden or gradual pollution event in connection with Subcontractor’s activities and those activities of its subcontractors.
- b. Coverage shall protect against the actual or alleged liability and costs arising from the sudden, gradual, and accidental release or discharge or pollutants.
- c. Contractual liability coverage shall apply.
- d. Policy shall have no exclusions for silica, mold, or fungi.
- e. Policy shall contain no cross-suits exclusions, except for Named Insureds.
- f. Coverage shall be primary and non-contributory.
- g. Additional insured endorsement, including competed operations.
- h. Waiver of subrogation endorsement.

6. Professional Liability Insurance

Professional Liability Insurance is required if Subcontractor’s Scope of Work includes any professional, design, or engineering service responsibility, including delegated design-assist or design review responsibilities. If applicable, limits shall be no less than:

Each Claim	\$1,000,000
Annual Aggregate	\$2,000,000

Policy shall contain no less than the following:

- a. Coverage for claims that arise from the actual or alleged negligent acts, errors, or omissions of Subcontractor or any entity for which the Subcontractor is legally responsible, in the provision of professional services. Insurance shall be obtained by the party performing the professional, design, engineering, or delegated design-assist service.
- b. Policy shall not exclude coverage related to the scope of services being provided, third-party bodily injury and property damage, pollution conditions arising out of professional services, delays in project completion and cost overruns, mold or microbial matter, or design-build or contractor-driven projects.
- c. Waiver of subrogation endorsement.

7. Asbestos or Lead Abatement Liability Insurance

Asbestos or Lead Abatement Liability is required if Subcontractor’s Scope of Work includes asbestos or lead abatement. If applicable, limits shall be no less than:

Each Occurrence	\$5,000,000
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8. Protection and Indemnity Insurance

Protection and Indemnity Insurance is required if Subcontractor’s Scope of Work involves the use of watercraft. Coverage shall apply to all crew members as well passengers. If applicable, limits shall be no less than \$5,000,000, or the value of the watercraft, whichever is greater.

9. Contractors Equipment Floater Insurance

Policy shall contain no less than the following:

- a. Coverage shall apply to all equipment utilized by the Subcontractor in the performance of the Subcontract and all equipment rented or leased to the Construction Manager by the Subcontractor as part of the Subcontract.
- b. Limits of liability shall be not less than the replacement value of Subcontractor’s owned, rented, leased, or borrowed equipment, except such items which are included in and remain part of the permanent construction.
- c. Waiver of subrogation endorsement

10. Riggers Liability Insurance

Riggers Liability Insurance is required if Subcontractor’s Scope of Work involves conveying the property of others by hoist, crane, or mobile equipment to facilitate its installation. If applicable, limits shall be no less than:

Each Occurrence	\$1,000,000
General Aggregate	\$1,000,000

Policy shall contain no less than the following:

- a. Coverage may be provided through a Riggers Liability Insurance policy, endorsement to Commercial General Liability policy, or through an Installation Floater policy.
- b. If coverage is provided by an endorsement to an existing Commercial General Liability policy, the endorsement must delete the exclusion of personal property in the insured's care, custody or control and delete the exclusion of "that particular part of real property" on which the Named Insured is performing operations.
- c. If coverage is provided by an Installation Floater insurance policy, an endorsement to cover loss of property of others must be included.
- d. Increased limits may be required depending on the value of property or equipment being lifted or moved for Owner or others.
- e. Waiver of subrogation endorsement

11. Cyber Liability Insurance

Cyber Liability Insurance is required if Subcontractor will have access to any person's or organization's confidential or personal information. If applicable, limits shall be no less than:

Each Claim	\$1,000,000
Aggregate	\$2,000,000

Policy shall contain no less than the following:

- a. Coverage shall apply to claims involving privacy violations (including alleged violations of any federal, state, local or foreign privacy protection laws and regulations), information theft, damage to or destruction of electronic information, infringement of intellectual property, intentional and/or unintentional release of confidential or private information, alteration of electronic information, extortion, and network security arising from Subcontractor's work.
- b. Coverage shall include expenses of notifying affected individuals/entities and providing credit monitoring or similar services for those affected.

12. Electronic Data Liability Insurance

Electronic Data Liability Insurance is required if Subcontractor's work is in or adjacent to a server room or data center. If applicable, limits shall be no less than:

Each Claim	\$1,000,000
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Policy shall contain no less than the following:

- a. Coverage shall be provided on an Electronic Data Liability ISO CG 00 65 12 07 or on a Commercial General Liability policy endorsed with ISO CG 07 37 04 13.
- b. Coverage shall be primary and non-contributory.

c. Additional insured endorsement shall be provided.

13. Drone Liability Insurance

Drone Liability Insurance is required if drones will be used by Subcontractor or on Subcontractor’s behalf. Coverage shall apply to any owned, leased, borrowed, rented, or hired unmanned aircraft. If applicable, limits shall be no less than:

Each Occurrence/ Combined Single Limit –	
Bodily Injury and Property Damage	\$1,000,000
Personal Injury	\$1,000,000

14. Boiler and Machinery Insurance.

Boiler and Machinery Insurance is required if Subcontractor’s work involves installation, maintenance, or any work involving boilers, machinery, or refrigeration units. If applicable, limits shall not be less than:

Each Occurrence	\$1,000,000
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15. Motor Trucker Cargo and/or Warehouseman’s Legal Liability Insurance

Motor Trucker Cargo and/or Warehouseman’s Legal Liability Insurance is required if Subcontractor’s Scope of Work involves moving, transportation, and/or storage of Owner’s property.

If applicable, policy shall contain no less than the following:

- a. Limits shall not be less than the replacement value of the property, artifacts, equipment and/or material.
- b. While such property is in the care, custody, and control of Subcontractor, coverage shall include loading, unloading, transportation, and return of said artifacts, equipment, and/or material up to the acceptance by Owner.
- c. Policy shall have no exclusion or contain an endorsement limiting coverage with respect to fine arts, historic documents, antiques, or breakage.

16. Railroad Protective Liability Insurance

Railroad Protective Liability Insurance is required if Subcontractor’s Scope of Work is within 50 feet of a railroad, including without limitation WMATA, VRE, etc. Limits and terms of coverage shall be set forth by the railway operator.

17. Builders Risk Insurance

Builders Risk Insurance may be provided by Owner or Construction Manager; however, Subcontractor has the option to purchase and maintain, at its own cost and expense, any supplementary property insurance that Subcontractor deems necessary to protect Subcontractor’s interest in the Work, including without limitation of offsite stored materials and materials in transit.

18. Other Insurance

Other Insurance coverages may be required based on Subcontractor's Scope of Work.

19. Additional Insured Entities.

Each insurance policy (except for workers' compensation and employer's liability insurance) shall include the following entities as additional insured parties:

- a. Nabholz Construction Corporation, its parent, subsidiary, related and affiliated companies
- b. Project Owner;
- c. Project Architect and Engineers;
- d. Each of their respective employees, agents, members, officers, managers, and principals
- e. Others as required by the Contract Documents

20. Subcontractor must maintain insurance throughout the duration of the Project and such time Subcontractor may be held legally liable for its Work, including the warranty period, or for such longer period as may be required under the terms of the Contract Documents.

21. If permitted by law, the certificate of insurance must include a 30-day written cancellation notice.

22. See sample certificate of insurance at <https://www.nabholz.com/bidding-and-contract-documents/>

.02 Example Contracts, Forms, and Other Documents

Effective March 1, 2022, Nabholz began using an updated form of the Master Contract. If you previously had a Master Contract with Nabholz that is dated prior to March 1, 2022, you will need to execute a new Master Contract for subcontracts issued after March 1, 2022. Any subcontract issued prior to March 1, 2022, will be governed by the previous Master Contract form. Executing this new Master Contract will not affect projects already completed or currently under subcontract with Nabholz.

The following documents are available at <https://www.nabholz.com/bidding-and-contract-documents/> and should be reviewed prior to bid submission:

1. Contract Performance and Administration
2. Sample Master Contract
3. Sample Project Contract
4. Sample Performance and Payment Bonds
5. Sample Purchase Order
6. Sample Certificate of Insurance
7. Contractor-Controlled Insurance Program Addendum to Master Contract
8. Safety Standards

.03 Virtual Design Construction Protocol

Subcontractor's Virtual Design Construction ("VDC") Scope of Work and Spatial Coordination Requirements, as follows:

1. Alternate Section 1 language if Nabholz is providing the BIM services firm for the Project. Subcontractor shall agree to participate in the Project BIM coordination process by attending the BIM coordination and review meetings and provide guidance to the project BIM service firm as necessary to achieve the requirements below.
2. Subcontractor shall agree to provide Construction Manager an electronic three-dimensional (3D) model (such models are functionally referred to herein as "BIM" or "Building Information Models"). The models provided will be used to facilitate coordination, sequencing, and/or production of as-built depictions of the Project. The Subcontractor's costs of such participation shall be included in the lump sum Proposal unless explicitly outlined herein.
3. The BIM provided by Subcontractor shall be of sufficient detail (refer to Appendix A for details) to enable complete clash detection and shall be submitted to Construction Manager at a point in time that is reasonably in advance of Subcontractor's shop drawing submittals and the subsequent Project site construction of Subcontractor's Work. Each trade is required to submit six (6) copies of its respective, coordinated systems in two-dimension (2D) format as required by Subcontract, for approval through the regular approval process.
4. Construction Manager will make available its Project BIM website that will allow all parties to upload and download its respective "in progress shop models," manage electronic drawing files or models, and other documents used in the BIM coordination process.
5. Subcontractor shall attend Project kick-off meeting and participate in review and finalization of the Project BIM execution plan which will be signed by all participating parties.
6. Subcontractor shall participate in BIM coordination and review meetings as Construction Manager may require (usually once a week or 48 hours after the submissions of the BIM). As a result of such meetings, both the 2D (traditional method) and 3D (BIM) may be required to be changed by Subcontractor to achieve coordination with other elements of the Project that are provided by other parties. The anticipated duration of BIM spatial coordination is XX weeks.
7. Subcontractor agrees to promptly update and post changes to the BIM originating from RFIs, submittals, and bulletins throughout the course of the Project so that the BIM at the conclusion of the Project accurately depicts the Work as actually performed and installed. Such changes shall be accomplished at no increase in the price or time of completion.
8. All Subcontractors participating in the BIM must use the following file naming convention for their BIM/CAD files to track the version and date by each trade.

NCS Job #_Trade/Subcontractor Phase/Location

9. Subcontractors are responsible for providing a true 3D solid or surface model (not line and wireframe model) that represents the actual dimensions of the trade system elements and the equipment that will be installed. Individual pieces of equipment shall be modeled as a single complete element rather than connected lines and surfaces.
10. Subcontractor's drawing and model files shall be based on an origin point provided by Construction Manager. The cost of any changes required by Subcontractor to its drawings or models due to the use of an unauthorized origin shall be borne by Subcontractor.
11. All files supplied by Construction Manager will be as Autodesk .dwg, .nwc, .nwd or .rvt file format or other file format as necessary and agreed to by Construction Manager.
12. See the following spatial coordination requirements for BIM.

Spatial Coordination Requirements for BIM

1. Major Components.

a. HVAC Duct and Piping.

The **HVAC and Piping Subcontractor** will generate and provide in a timely manner BIMs of the HVAC systems including, but not limited to, duct work, piping, and all equipment installed in the HVAC scope of Work (fans, air handling units, built-up air handling units, pumps, tanks, valves, controls, heat exchangers, smoke and fire dampers, valves (including valve stems and handles), gauges and control valves, insulation on piping and ductwork, hangers and seismic bracing (if applicable), diffusers, registers, louvers, grilles, high and low point drains, starters, etc.). The HVAC and Piping Subcontractor shall also include in the BIMs all Owner or Construction Manager provided equipment that is installed under this Contract, concrete equipment pads, and inertia pads, and accessibility requirements for above listed items for code and maintenance purposes. The HVAC and Piping Subcontractor shall label the BIMs elements for all equipment under this contract as indicated in the Contract Documents.

b. Plumbing.

The **Plumbing Subcontractor** will generate and provide in a timely manner BIMs of the plumbing systems including, but not limited to, all piping systems and equipment installed in the Plumbing Subcontractor's scope of Work (domestic water, chilled water, steam, storm and roof leaders, pumps, tanks, water heaters, in-wall carriers, in-wall plumbing equipment, valves, gauges and control valves, insulation on piping, hangers and seismic bracing (if applicable), clean-outs, etc.). The Plumbing Subcontractor shall also include in the BIMs all Owner or Construction Manager provided equipment that is installed under this contract, concrete equipment pads, inertia pads, and accessibility requirements for above listed items for code and maintenance purposes. The Plumbing Subcontractor shall label the BIMs elements for all equipment under this contract as indicated in the Contract Documents.

c. **Fire Protection System.**

The **Fire Suppression System Subcontractor** will generate in a timely manner BIMs of the Fire Suppression Systems including, but not limited to, all risers, main and branch piping, heads, pumps, controllers, ATS, and equipment installed in the Fire Suppression System scope of Work (pre-action system, dry system, and main fire suppression systems, hangers and seismic bracing (if applicable), valve assemblies, drain valves, Fire Department valves, etc.) The Fire Suppression System Subcontractor shall also include in the BIMs concrete equipment pads, inertia pads, and access doors. The Fire Suppression System Subcontractor shall identify, under separate model element or drawing layer, access doors, and accessibility requirements for above listed items for code and maintenance purposes. The Fire Suppression Subcontractor shall label the BIMs elements for all equipment under this contract as indicated in the Contract Documents.

d. **Electrical.**

The Electrical Subcontractors, including, Low Voltage Subcontractor, Audio-Video Subcontractor, and Scoreboard-Ribbon Board Subcontractor, will generate in a timely manner BIMs of its respective electrical systems and/or devices including, but not limited to, all conduit systems, and equipment installation in its respective scopes of Work (individual conduits over 2", racks carrying more than 4 conduits 1" and smaller, panels, transformers, switch/paralleling gear, ATS', generators, cable tray, data racks, starters, VFD's, cast-in-place floor boxes, hangers and seismic bracing (if applicable), etc. for normal, emergency and isolated power systems or applicable specialty systems). Subcontractor shall also include in the BIMs equipment pads, inertia pads, light fixtures, exit signs, fire alarm components and devices, speakers, A/V equipment and devices, scoreboards, ribbon boards (and related devices), recessed electrical devices and access doors. Subcontractor shall identify under model element, or separate drawing layer access doors and accessibility requirements for above listed items for code and maintenance purposes. Electrical Subcontractor shall label the BIMs elements for all equipment under this contract as indicated in the Contract Documents.

e. **Structural.**

The **Structural Steel Supplier** will generate and provide in a timely manner BIMs of its scope of Work in addition to the contractually required 2D documentation. The BIMs will represent an "as fabricated" fully detailed level of information. The fabrication-level detailed model shall include, but is not limited to, major structural members such as trusses, beams, columns, etc., as well as secondary and miscellaneous steel connections including gusset plates, bracing, angles, knife plates, etc. necessary for the successful coordination of other building trades. These models shall be updated and maintained to reflect changes in

the Work as a result of coordination or design changes and shall be delivered at the end of the Project as an “as built” record model of the structural steel system in its entirety.

2. Minimum Hardware Requirements.

- a. TBD

3. Minimum Software Requirements.

- a. TBD

4. Structural / Architectural Features Required for Coordination

- a. Spatially accurate and dimensionally scalable building elements including but not limited to soffits, fixture locations, ceiling/floor tile locations, ADA clearances, interior wall framing, moment-frame side plates, cross bracing, gusset plates, beam stiffeners, miscellaneous steel framing, and other similar entities within the modeling space requiring coordination with the MEP trades.

5. Fully Annotated Installation Drawings.

- a. Fully annotated installation drawings shall include all text, dimensions, and annotations required for physical location of all elements shown on the drawings in the physical space at the time of their installation.

.04 Nothing Hits the Floor

Nothing Hits the Floor is an initiative to improve productivity, reduce waste and construction debris, improve housekeeping, and enhance worker safety on the project. Subcontractor agrees to actively participate in the program, which includes but is not limited to the following activities:

1. All materials brought into the building shall immediately be loaded onto wheeled carts or dollies to allow easy movement and facilitate organization within the work areas.
2. Flow of work activities shall be planned to minimize or eliminate off-cuts, debris, and excess materials from piling up on the floor. Waste and recycling containers in the building shall be wheeled to facilitate efficient placement and ease of debris transport.
3. All work areas shall be kept clean and well organized, and shall be broom swept, with no materials left on the floor at the end of the work day.
4. All materials small tools are to be neatly stored and organized and work areas kept free of waste, debris, surplus equipment and surplus materials.
5. Subcontractor shall participate, at Construction Manager's discretion, in a project-wide cleanup effort to maintain housekeeping of common areas.
6. Right-time material deliveries are encouraged. Materials delivered to jobsite shall be incorporated into the Work within 10 days of delivery. Materials stored on site shall be roped off and labeled with Subcontractor's name, Subcontractor's Foreman's name and phone number, and the date of material delivery.
7. Whenever feasible, assembly of components shall be accomplished at tabletop height to encourage more ergonomically correct posture for craftsmen.
8. Wherever feasible, Subcontractor shall unpackage materials and dispose of packaging waste at his own shop.
9. Wherever feasible, Subcontractor shall endeavor to utilize cordless tools to eliminate the trip hazards associated with electrical extension cords.
10. Wherever feasible, and with the prior approval of the Construction Manager, Subcontractor shall endeavor to prefabricate components off-site in a warehouse or other controlled environment to eliminate jobsite cut-off debris, improve quality, and reduce safety hazards.