



# CONSTRUCTION MANAGER'S MANUAL

Project: Sedalia Fire Station and Bowling Alley

Issue Date: 7/28/2025

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# 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:	Sedalia Fire Station and Bowling Alley
Nabholz Job Number:	05-25-0075
Jobsite Address:	Fire Station – 600 E 5 <sup>th</sup> Street, Sedalia MO 65301
	Fire Training – 540 E 5 <sup>th</sup> Street, Sedalia MO 65301
	Bowling Alley – 643 E Boadway, Sedalia MO 65301
Job Description:	Fire Station, Fire Training, Bowling Alley
LEED Certification:	N/A
Approximate Construction Start:	September 2025
Approximate Construction Finish:	September 2026
Are BIM/VDC Practices Required?	No
Is this a “Nothing Hits the Floor” Project?	Yes
Is this a CCIP Project? (Contractor Controlled Insurance Program)	No
Is this an OCIP Project? (Owner Controlled Insurance Program)	No
Is this job prevailing wage?	Yes
Is this job taxable?	No

## .02 Bidding Procedure

Bid Date:	8/26/2025
Bid Time:	2:00 PM
Bid Submission Procedure:	Submission Options: 1. Building Connected: Submit your bid directly for each bid package. 2. Hand Delivery: Sedalia City Hall, 200 S Osage Ave, Sedalia, MO 65301
Private or Public Opening:	Public
Bid Bond Required:	Yes for bids are over \$100,000
Bid Opening Location:	Sedalia City Hall, 200 S Osage Ave, Sedalia, MO 65301
RFI/Bid Question Deadline:	2:00 PM on 8/15/2025
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:	8/6/2025
Prebid Meeting Time:	2:00 PM
Prebid Meeting Location:	600 E 5th Street, Sedalia MO 65301
Is the Prebid Mandatory?	Attendance is not mandatory but is strongly encouraged and will be considered in final evaluation of proposals.

### .04 Project Team Information

Nabholz Office:	1316 Old 63 S Suite 102, Columbia, MO 65201
Nabholz Project Manager:	Frank Schaffer
Nabholz Superintendent:	Justin Bolten, Tim Warner
Nabholz Estimator(s):	Jarrett Sims
Architect:	Hoefer Welker
Architect Contact:	Brian Crawford (913) 307-3981
Architect Address:	4622 Pennsylvania Avenue, Suite 1400, Kansas City, MO

### .05 Site Specific Safety Considerations

Project Safety Considerations	1.
(in addition to Nabholz Safety Standards)	2.
	3.
	4.
	5.
	6.
	7.

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 TOBACCO OR SUBSTANCE ABUSE policy, and will not permit the use of tobacco on the Project site.

## 2.00 BIDDING INSTRUCTIONS AND SUPPLEMENTAL INFORMATION

### .01 Instructions to Bidders

The following instructions apply to all proposals.

1. **Beginning January 1, 2026, Nabholz will require all workers on our job sites to be outfitted with Type 2 construction helmets with chin straps. Traditional Type 1 hard hats will no longer be permitted.**
2. 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.
3. Bid bonds are required for subcontractor proposals over \$100,000, unless stated otherwise in section 1.02.
4. 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 by contacting Frank Schaffer, (417) 225-2514, [frank.schaffer@nabholz.com](mailto:frank.schaffer@nabholz.com).
5. Modification to Bid Packages may be cause for rejection of proposal.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.

12. 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.
13. 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/>
14. 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.
15. Bidders are required to provide a price for each specified Alternate Bid, Unit Price, or Price Breakout that affects Bidders' Bid Package.
16. 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.
17. 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
18. All attachments and exhibits to the Contract between Construction Manager and Owner shall be recognized by Subcontract or PO between Bidders and Construction Manager.
19. Bidders' proposal shall include, but not limited to, the following costs:
  - a. 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:
  - i. 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.

- q. Weather protection as required to protect and perform the Work unless specifically excluded in Bid Package.
  - r. All applicable trade permits, licenses, and inspection fees, including bonds required for the Scope of Work.
  - s. Engineering layout, professional surveys, grade control and field dimensions associated with the Scope of Work.
  - t. Touch-up painting of any prefinished items as required.
  - u. Dewatering of all excavations associated with the Scope of Work, as required, preserving structural integrity and workability.
  - v. Provide enclosures, temporary heat, blankets, additives, etc. as needed to protect Work and materials from cold weather conditions.
  - w. Removal of existing materials in existing facilities, if considered part of the Scope of Work and legally dispose of offsite.
  - x. 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.
20. 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.

21. Compliance with and weekly updating of Construction Manager's Site Specific Combustibles Storage Plan.
22. Compliance with all requirements of Construction Manager's substance abuse and security policies.
23. Compliance with Construction Manager's insurance requirements. Reference Section 5.01 of the CM Manual.
24. 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.
25. 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.
26. 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.
27. 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.
28. Bidders may not remove or replace its Superintendent or Foreman without prior written consent from Construction Manager.
29. 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.
30. 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.
31. Bidders shall coordinate Work with the Construction Manager and other trades affecting their Scope of Work.

32. 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.
33. 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.
34. Time lost due to weather conditions must be made up by Bidders.
35. Bidders shall comply with the established work hours or Owner-specified durations necessary to minimize impact on Owner operations.
36. Construction Manager maintains ownership of all schedule free float.
37. Bidders shall sequence Work as directed by Construction Manager.
38. 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.
39. Bidders must participate and comply with the Construction Manager's QMS as relevant to the Scope of Work.
40. 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.
41. Prior to commencing work, bidders must provide company specific safety plan and silica exposure plan to superintendent, in either digital or physical copy.

**Missouri**  
**Division of Labor Standards**  
WAGE AND HOUR SECTION



# Annual Wage Order No. 32

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Prepared by Missouri Department of Labor and Industrial Relations

Building Construction Rates for  
PETTIS County

Section 080

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Asbestos Worker	\$72.21
Brewmaker	\$27.82*
Bricklayer-Stone Mason	\$56.32
Carpenter	\$55.57
Lather	
Linoleum Layer	
Milwright	
Pile Driver	
Cement Mason	\$55.20
Plasterer	
Communication Technician	\$27.82*
Electrician (Inside Wireman)	\$74.00
Electrician Outside Lineman	\$27.82*
Lineman Operator	
Lineman - Tree Trimmer	
Groundman	
Groundman - Tree Trimmer	
Elevator Constructor	\$27.82*
Glazier	\$43.38
Ironworker	\$72.47
Laborer	\$52.89
General Laborer	
First Semi-Skilled	
Second Semi-Skilled	
Mason	\$27.82*
Marble Mason	
Marble Finisher	
Terazzo Worker	
Terazzo Finisher	
Tile Setter	
Tile Finisher	
Operating Engineer	\$69.66
Group I	
Group II	
Group III	
Group III-A	
Group IV	
Group V	
Painter	\$47.31
Plumber	\$60.97
Pipe Fitter	
Roofer	\$61.09
Sheet Metal Worker	\$73.43
Sprinkler Fitter	\$69.03
Truck Driver	\$27.82*
Truck Control Service Driver	
Group I	
Group II	
Group III	
Group IV	

\*The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. The public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.

\*\*The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title as defined in RSMo Section 290.210.

Heavy Construction Rates for  
PETTIS County

Section 080

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Carpenter	\$27.82*
Millwright	
Pile Driver	
Electrician (Outside Lineman)	\$27.82*
Lineman Operator	
Lineman - Tree Trimmer	
Groundman	
Groundman - Tree Trimmer	
Laborer	\$50.21
General Laborer	
Skilled Laborer	
Operating Engineer	\$59.26
Group I	
Group II	
Group III	
Group IV	
Truck Driver	\$27.82*
Truck Control Service Driver	
Group I	
Group II	
Group III	
Group IV	

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate Sheet.

\*The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.

\*\*The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title.

ANNUAL WAGE ORDER NO. 32

3/25

## OVERTIME and HOLIDAYS

### OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, "overtime work" shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

### HOLIDAYS

January first;  
The last Monday in May;  
July fourth;  
The first Monday in September;  
November eleventh;  
The fourth Thursday in November; and  
December twenty-fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.

## 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. Refer to Instructions for Bidders, for general requirements.
2. 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.
3. Nabholz project teams, including on-site trade partners and vendors, shall maintain orderly job sites and clean work areas to promote safety, efficiency, first-time quality, and a professional work environment. Clean work areas reduce trip hazards and improve productivity. Organized and properly staged materials are less likely to be damaged before installation. For a full document on Jobsite Cleanup Standards click the link <https://rb.gy/teadb>.
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. Subcontractor will actively participate in the Nabholz Quality Management System.
10. 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.
11. 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.
12. All Subcontractors and Suppliers will be required to write a site-specific safety plan.
13. The Project will be staged on an vacant property with residential housing in close proximity. Avoid interaction with public. Any harassment of 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.
14. Construction activities that generate high decibel noise levels must be scheduled and coordinated with Construction Manager's Project Superintendent.
15. Use of tobacco products and other controlled substances on Project site is not permitted.



## .02 Bid Form Sedalia Fire Station and Bowling Alley

**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 \_\_\_\_\_

### **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, and Safety Standards.

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

\$ \_\_\_\_\_

## Separate Building Pricing

Fire Station \$ \_\_\_\_\_

Fire Training \$ \_\_\_\_\_

Bowling Alley \$ \_\_\_\_\_

### Alternates

1. Alternate Description \_\_\_\_\_ Add/Deduct \$ \_\_\_\_\_  
**Fire Station Alternate No. 01** – Patio Canopy - Provide patio canopy as shown throughout the construction document set. Reference architecture and structural drawings.
2. Alternate Description \_\_\_\_\_ Add/Deduct \$ \_\_\_\_\_  
**Fire Station Alternate No. 02** – App Bay Radiant Flooring - No radiant heaters. Provide radiant flooring as shown throughout the construction document set. Reference architecture, structural, plumbing, mechanical, and electrical drawings.
3. Alternate Description \_\_\_\_\_ Add/Deduct \$ \_\_\_\_\_  
**Fire Training Alternate No. 01** – Interior Finish - Provide the full scope as shown on the construction documents.

### Voluntary Alternates

1. Savings to combine the following packages: \_\_\_\_\_ Deduct \$ \_\_\_\_\_
2. \_\_\_\_\_ Add/Deduct \$ \_\_\_\_\_

### Unit Prices

- Unit Price 1 - Mass rock excavation and removal from site. Cost per cubic yard \$ \_\_\_\_\_
- Unit Price 2 – Trench Rock excavation and removal from site. Cost per cubic yard \$ \_\_\_\_\_
- Unit Price 3 – General excavation and removal from site (spoils removal). \$ \_\_\_\_\_
- Unit Price 4 – Unsuitable soils remove & replace from onsite materials. \$ \_\_\_\_\_
- Unit Price 5 – Unsuitable soils remove & replace with granular fill (Dirty Base) \$ \_\_\_\_\_
- Unit Price 6 – Unsuitable soils remove & replace with ¾" clean rock. \$ \_\_\_\_\_
- Unit Price 7 – Unsuitable soils remove & replace with structural fill (LVC Material) \$ \_\_\_\_\_
- Unit Price 8 – Over excavation and replacement with lean concrete. \$ \_\_\_\_\_
- Unit Price 9 – Footing Excavation \$ \_\_\_\_\_
- Unit Price 10 – Import and Placement of Topsoil \$ \_\_\_\_\_

### ***Procurement/Schedule***

1. Contractor has reviewed the attached schedule and has incorporated the schedule into this bid.
2. All contractors will be required to submit shop drawings, product data, and samples per the requirements above within (5) days from the date of Letter of Intent unless identified below.
3. It is assumed that all materials can be procured within 10 days from date of approved shop drawings. Any items that will take longer to be procured than 10 days are to be listed below with expediting cost if available:

- a. Material #1 \_\_\_\_\_ Fab/Del. Duration: \_\_\_\_\_ weeks
  - i. Expediting Cost \$ \_\_\_\_\_ New Fab/Del. Duration: \_\_\_\_\_ weeks
- b. Material #2 \_\_\_\_\_ Fab/Del. Duration: \_\_\_\_\_ weeks
  - i. Expediting Cost \$ \_\_\_\_\_ New Fab/Del. Duration: \_\_\_\_\_ weeks.
- c. Material #3 \_\_\_\_\_ Fab/Del. Duration: \_\_\_\_\_ weeks
  - i. Expediting Cost \$ \_\_\_\_\_ New Fab/Del. Duration: \_\_\_\_\_ weeks.

### ***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 September 2025 – July 2026.

### **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 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

## 01.0 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 1 – General Requirements

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

1. Provide 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 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. Dust clean all countertops and millwork drawers and cabinets.
8. Clean light fixtures, sinks and tub plumbing fixtures and trim.

### ***Section C: Project-Specific Exclusions:***

1. All federal, state, and local taxes.

### ***Section D: Project Alternates:***

1. N/A

### ***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 03.0 Concrete

### **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 1 – General Requirements
- Section 033000– Cast-In-Place Concrete
- Section 072100 – Thermal Insulation

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

1. Prepare and construct all building concrete assemblies, including but not limited to wall and column foundations, footings and mats, grade beams, slabs on grade, ramps, trenches, pits, equipment pads, structural slabs, and slabs on deck as indicated in the construction documents.
2. Furnish and install all expansion and construction joints including isolation joints, keyways, dowels and saw cutting as required.
3. Include all associated excavation, backfill, and compaction (both interior and exterior perimeters). Move spoils off-site.
4. Backfill compaction must meet requirements of specifications.
5. Include 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, anchor 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 termite treatment in accordance with specifications.
10. Grout all base plates as required.
11. Include bituminous paint of steel
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 surveyor. 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. Dewatering of the excavations associated with this scope of work as required. Preserve structural integrity and workability

**Section B: Project Specific Requirements:**

1. *Rigid Insulation concrete Rigid Insulation/Geofoam Detail 13 & 14*
2. *Coordinate with framing contractor for layout of specialty connections as shown on 2/S-403 furnished by framing contractor.*
3. *Install hold down connections furnished by others.*
4. *ACI certified Flatwork Technician per specifications*
5. *Include Waterproofing Admixture – Concure, Barrier One, Vapor Lock.*
6. *Flag pole foundation per sheet L101.*
7. *Form footings as noted/required per notes on plans.*

**Section C: Project-Specific Exclusions:**

1. All federal, state, and local taxes.

**Section D: Project Alternates:**

**Fire Station Alternate No. 01 – Patio Canopy**

**Alternate Bid:** *Provide patio canopy as shown throughout the construction document set. Reference architecture and structural drawings.*

**Fire Station Alternate No. 02 – App Bay Radiant Flooring**

**Alternate Bid:** *No radiant heaters. Provide radiant flooring as shown throughout the construction document set. Reference architecture, structural, plumbing, mechanical, and electrical drawings.*

**Section E: Unit Pricing:**

Unit Price 8 – Over excavation and replacement with lean concrete. \$ \_\_\_\_\_

Unit Price 9 – Footing Excavation \$ \_\_\_\_\_

**END OF BID PACKAGE**

## 04.0 Masonry

### **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 1 – General Requirements
- Section 042000- Unit Masonry
- Section 042200- Concrete Unit Masonry
- Section 047200- Cast Stone Masonry
- Section 072100 – Thermal Insulation

***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 mock-up per specifications in a location as directed by the Project Superintendent. The mockup will clearly show all CMU, grout, reinforcing, anchoring, seismic (if required) ties, flashing, brick, mortar, cast stone (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 as 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 anchor and attachment 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 embed plates furnished by others.
18. Include protection of masonry cells and cavity between masonry walls from infiltration of moisture at the end of each work day. Protect space between masonry and sheathing.
19. Cover and protect all slab areas that will receive special finishes as directed by 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.

**Section B: Project Specific Requirements:**

**Fire Station**

1. *Coordinate the layout of all specialty connectors in masonry provided by others S-403.*
2. *Provide and coordinate layout of dowels in CMU to concrete connection as shown on 2/S-402.*
3. *Coordinate penetrations in building façade, coordinate and cast stone sill with HVAC contractor as indicated on H 1/A-201.*
4. *Provide shop drawings for mockup(s) required per construction documents per section 014000*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*

**Section D: Project Alternates:**

1. N/A

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 05.0 Structural and Miscellaneous Steel

### **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 1 – General Requirements
- Section 051200 – Structural Steel
- Section 053100 – Steel Decking
- Section 055000 – MISC. Metal Fabrications

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

#### ***Fabrication***

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, 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. Furnish miscellaneous framing/support for mechanical, plumbing, and electrical equipment.
6. Fabricate and deliver metal deck closures.
7. Provide all sleeve anchors and any anchors that connect steel to other materials.
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. Include prime painting (galvanized where required by the bid documents) and touch-up (where required) as indicated in the construction documents.
10. 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.
11. 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.

#### ***Erection***

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 009.05.01 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. *All exterior ferrous metal items, including shall be galvanized as indicated on general notes A-201.*
2. *AISC Certified Fabricator*
3. *Provide and install joist and deck for entry vestibule on the bowling alley.*
4. *Provide and install joist and deck for hardened area inside the fire station.*
5. *Provide all bollards as shown on plans for others to install.*

**Section C: Project-Specific Exclusions:**

1. All federal, state, and local taxes.

**Section D: Project Alternates:**

**Fire Station Alternate No. 01 – Patio Canopy**

***Alternate Bid:** Provide patio canopy as shown throughout the construction document set. Reference architecture and structural drawings.*

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 06.0 Wood Framing & SIPS Panels

### 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 01 – General Requirements
- Section 610000 – Rough Carpentry
- Section 061200 – Structural Insulated Panels
- Section 061600 – Sheathing (As it applies to this scope)
- Section 061753 – Shop-Fabricated Wood Trusses
- Section 072100 – Thermal Insulation (As it applies to this scope)

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

1. Visit project site and take field measurements before fabrication. Coordinate and schedule site visit with Project Superintendent.
2. Coordinate all material deliveries and sequence of installation with Project Superintendent no later than 30 days prior to start of work.
3. Include all associated brackets and supports.
4. Furnish and install all the following but not limited to:
  - a. All interior in-wall blocking, and plywood backing shown on the drawings or required by each item's specification including but not limited to:
    - i. Casework
    - ii. Millwork
    - iii. Lockers
    - iv. Learning Stairs
    - v. Countertops
    - vi. Toilet Accessories
    - vii. Toilet Compartments
    - viii. Window treatments
    - ix. Fire protection specialties
    - x. Signage
    - xi. Handrails
    - xii. Markerboards and tackboards
    - xiii. Acoustical wall treatments, etc.
    - xiv. TV brackets/Audio Visual Equipment
    - xv. Etc. (if it has in-wall blocking, it is included in this package)
  - b. All exterior blocking and plywood backing shown on the drawings or required by each item's specification including but not limited to:
    - i. Parapet walls and coping, including slopes and overhangs as shown in the

- ii. Contract documents.
- iii. Roof blocking, nailers, etc.
- iv. Blocking for curbs for roof-top equipment
- v. Blocking/jambs for glass/glazing/curtainwall systems
- vi. Exterior building signage
- vii. Roof ladders.
- viii. Roof accessories.
- ix. Provide insulation behind blocking/sheathing

**Section B: Project Specific Requirements:**

1. All wood framing materials, labor, and equipment per contract documents.
2. Include vapor barrier b/w concrete and bottom cord of truss as shown on S 4.2.
3. Provide and coordinate the layout of all specialty connectors in masonry & concrete.
4. Meet qualifications for SIPS installation as indicated in project specifications.
5. Adhere to all information included in S-500 for framing details & schedules.
6. Build integrated mockups as indicated in specifications to include scope(s) included in this bid package.
7. Provide shop drawings for mockup(s) required per construction documents per section 014000
8. Provide supplemental framing & attachments to structure to support the ceiling system, light fixtures, ducts, diffusers, sprinkler piping and other above ceiling MEP equipment.
9. Provide plywood backing as shown on A4/A-501.
10. SIPA Certified Manufacturer & Installer
11. Include delegated design as required for SIPS panels and wood trusses.

**Section C: Project-Specific Exclusions:**

1. All federal, state, and local taxes.

**Section D: Project Alternates:**

**Fire Station Alternate No. 01 – Patio Canopy**

**Alternate Bid:** Provide patio canopy as shown throughout the construction document set. Reference architecture and structural drawings.

**Fire Training Alternate No. 01 – Interior Finish**

**Alternate Bid:** Provide the full scope as shown on the construction documents.

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 06.1 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 1 – General Requirements
- Section 064116 – Plastic-Laminated-Clad Architectural Cabinets
- Section 123623.13 – Plastic Laminate-Clad Countertops
- Section 123661.19 – Quartz Agglomerate Countertops

***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, and window sills as indicated in the construction documents.
5. Provide a sufficient amount of scribes and/or fillers as necessary for a 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 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.

**Section B: Project Specific Requirements:**

1. *Provide locks at all cabinet doors and drawers unless otherwise noted.*
2. *Contractor shall provide and install grommets at 48" OC max at all work stations with open knee space. Coordinate locations directly with owner. Contractor shall provide countertop brackets at open knee spaces wider than 42". Space brackets no more than 48" center in open area, unless noted or shown otherwise in construction documents.*
3. *Furnish and install wood supports/blocking as it relates to millwork. Reference A1/A551 (Bowling Alley)*
4. *AWI Certified Fabricator and Installer*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*

**Section D: Project Alternates:**

**Fire Training Alternate No. 01 – Interior Finish**

**Alternate Bid:** *Provide the full scope as shown on the construction documents.*

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 07.0 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 1 – General Requirements
- Section 071113 – Bituminous Dampproofing
- Section 072726 – Fluid-Applied Membrane Air Barrier
- Section 079200 – 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 dampproofing for below-grade and above-grade surfaces where unexposed to view per construction documents.
5. Provide all joint sealants required or indicated at exterior and interior masonry constructed walls and partitions.
6. Provide water-repellent and elastomeric coatings for exposed concrete and masonry surfaces. Clean surfaces prior to commencement of work per construction documents.
7. Provide joint sealants and incidentals as necessary and per the bid documents at building exterior to secure a water-tight building envelope.
8. Include joint sealants in and surrounding site paving.
9. Confirm that materials furnished for this Bid Package are compatible with other materials furnished for other Bid Packages.

### ***Section B: Project Specific Requirements:***

1. *Build integrated mockups as indicated in specifications to include scope(s) included in this bid package.*
2. *Provide shop drawings for mockup(s) required per construction documents per section 014000*
3. *Testing shall be performed on mockups according to requirements in "Field Quality Control" Article.*
4. *ABAA Certified Installer*

### ***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*



**Section D: Project Alternates:**

**Fire Station Alternate No. 01 – Patio Canopy**

**Alternate Bid:** Provide patio canopy as shown throughout the construction document set. Reference architecture and structural drawings.

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 07.1 Exterior Insulation Finish System (EIFS)

### **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 1 – General Requirements
- Section 072419 – Water Drainage Exterior Insulation and Finish System

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

1. Furnish and install required scaffolding in strict accordance 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.
2. Protect adjacent surfaces and finishes during EIFS installation.
3. Furnish and install flashing behind EIFS required for drainage as shown.
4. Furnish and install all materials required for an EIFS system in strict accordance with the construction documents and manufacturer's requirements.
5. Furnish and install all materials required for control joints in EIFS.
6. Furnish and install EIFS-to-EIFS joint sealants. EIFS-to-other joint sealant will be provided by others.
7. Furnish and install all materials required for reveal and accent details in EIFS.

### ***Section B: Project Specific Requirements:***

1. AWCI International Certified Installer.
2. Include all fluid applied waterproofing per mfg. recommendations.

### ***Section C: Project-Specific Exclusions:***

1. All federal, state, and local taxes.

### ***Section D: Project Alternates:***

#### **Fire Station Alternate No. 01 – Patio Canopy**

***Alternate Bid:*** Provide patio canopy as shown throughout the construction document set. Reference architecture and structural drawings.

### ***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 07.2 Wall Panels

### **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 1 – General Requirements
- Section 055813 – Column Covers
- Section 074213.13 – Metal Composite Material Wall Panels
- Section 074293 – Soffit Panels
- Section 076200 – Metal Flashing and Trim (as applies to this scope).

***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, sub framing, 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. Testing shall be performed on mockups according to requirements in "Field Quality Control" Article.

### ***Section B: Project Specific Requirements:***

1. *System shall be field-curable to conform to conditions indicated.*
2. *Build integrated mockups as indicated in specifications to include scope(s) included in this bid package.*
3. *Provide shop drawings for mockup(s) required per construction documents per section 014000*
4. *Provide and Install Reynobond ACM panels – Charcoal and cadet grey, supply and install all sub framing, flashing, and panels for a complete system.*

### ***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*

***Section D: Project Alternates:***

1. N/A

***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 07.3 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 1 – General Requirements
- Section 073113 – Asphalt Shingles
- Section 077100 – Roof Specialties
- Section 077200 – Roof Accessories
- Section 076200 – Metal Flashing and Trim

***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 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.
10. Provide roof system that meets minimum insulation value as specified. Clearly confirm the minimum “R” value rating on shop drawings.
11. Cover all insulation installed each day. Do not shake out or leave unprotected any insulation which may become wet with dew or rainfall.
12. Coordinate all metal flashing and trim so that metal products match in color to the metal roof copings, flashing and trim.
13. Provide pitch pockets and flashing for miscellaneous penetrations of the roof.

14. Provide roof expansion joints and covers.
15. Provide all miscellaneous roof accessories.
16. 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.
17. Immediately clean all areas or surfaces soiled by roofing operations.
18. Prior to demobilization, Subcontractor agrees to coordinate with Project Superintendent for the purpose of conducting a waterproof test.
19. All warranties must be signed by the roofing manufacturer's representative.

**Section B: Project Specific Requirements:**

1. *Provide splash pans as noted in construction documents.*
2. *Build integrated mockups as indicated in specifications to include scope(s) included in this bid package.*
3. *Provide shop drawings for mockup(s) required per construction documents per section 014000*
4. *Testing shall be performed on mockups according to requirements in "Field Quality Control" Article.*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*

**Section D: Project Alternates:**

**Fire Station Alternate No. 01 – Patio Canopy**

**Alternate Bid:** *Provide patio canopy as shown throughout the construction document set. Reference architecture and structural drawings.*

**Section E: Unit Pricing:**

1. Unit Price 1.

**END OF BID PACKAGE**

## 08.0 Doors and Hardware Installed

### **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 1 – General Requirements
- Section 081113 – Hollow Metal Doors and Frames
- Section 081416 – Flush Wood Doors
- Section 087100 – Door Hardware

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

#### ***Door Installation***

1. Include all off loading, storage, and shakedown of materials.
2. Immediately upon discovery, bring any damage to the wood doors incurred during to the attention of Project Superintendent.
3. Immediately upon discovery, bring any discrepancy between the hollow metal, hardware and wood door schedule to the attention of the Project Superintendent.
4. Install all hollow metal and solid core wood doors.
5. Install all rated doors according to the appropriate underwriter's label.
6. Install all commercial door and electromechanical hardware.
7. Install all door cylinders except cylinders for aluminum or glass doors.
8. Install temporary cores for use during construction. Permanent cores and keys are installed by Owner.
9. Subcontractor is responsible for all required field measurements.

#### ***Materials***

1. This is an all-inclusive bid package. Supplier agrees to furnish ALL items covered by the Sections referenced above and described herein.
2. Coordinate with superintended 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. All materials must be individually wrapped and protected, and clearly labeled and tagged.
8. All frames and doors must be rated as required and carry the appropriate underwriters label.
9. All doors must be pre-machined for finish hardware, undercut (as required), and pre-finished (if required by construction documents).
10. Include door cutouts, view lite kits, grilles, and stops.
11. Include all transoms and side panels as required.
12. Furnish and deliver all finish hardware, including cylinders for aluminum or glass doors.
13. Furnish and deliver temporary construction cores.
14. Include provisions for final keying. Include cost for coordination meeting with Owner Representative(s).
15. Provide low voltage transformers and wiring required for mag locks, hold opens, etc.

***Section B: Project Specific Requirements:***

1. Supply all aluminum door hardware as specified for others to install.

***Section C: Project-Specific Exclusions:***

1. All federal, state, and local taxes.
2. Installation of Aluminum door hardware.

***Section D: Project Alternates:***

**Fire Training Alternate No. 01 – Interior Finish**

*Alternate Bid: Provide the full scope as shown on the construction documents.*

***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**



## 08.1 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 1 – General Requirements
- Section 083613 – Sectional 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 supports that may be required for this work that is not shown on drawings.

### ***Section B: Project Specific Requirements:***

1. Provide all labor, material, and equipment for a complete package including operators.

### ***Section C: Project-Specific Exclusions:***

1. Final power connections.

### ***Section D: Project Alternates:***

1. N/A

### ***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 08.2 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 1 – General Requirements
- Section 084113 – Aluminum-Framed Entrances and Storefronts
- Section 088000 – Glazing
- Section 088300 – Mirrors
- Section 087113 – Automatic Door Operators

***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 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 shims required for the installations associated with this package that may not be shown on the drawings.
7. Provide all aluminum and glass storefront systems, curtainwall 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 or entrance systems.
10. Include steel reinforcement within aluminum framing if required.
11. Provide all related hardware not specifically provided by others.
12. 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.
13. Provide all glass products according to glass type schedules in the documents and as required by Code.
14. Furnish and install glass at hollow metal window frames and doors, wood frames and doors, plastic laminate doors. Include all sealants and gaskets.
15. Provide all non-framed glass mirrors.

16. Include final adjusting per contract documents.
17. Remove all labels and stickers from all components after installation.
18. Include final cleaning and install security tape across windows immediately after installation.
19. 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 finish carpentry and millwork assemblies.*
2. *Build integrated mockups as indicated in specifications to include scope(s) included in this bid package.*
3. *Testing shall be performed on mockups according to requirements in "Field Quality Control" Article.*
4. *Provide transom windows to match storefront mullion.*
5. *Include delegated design for aluminum-framed storefronts, entrances, and glazing.*
6. *Install all door hardware supplied by bid package 08.0.*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*

**Section D: Project Alternates:**

1. N/A

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 09.0 Light Gauge Framing, Drywall, Acoustical

### 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 1 – General Requirements
- Section 054000 – Cold-Formed Metal Framing
- Section 072100 – Thermal Insulation
- Section 078443 – Joint Firestopping
- Section 078413 – Penetration Firestopping
- Section 092216 – Non-Structural Metal Framing
- Section 092900 – Gypsum Board
- Section 095123 – Acoustical Ceilings
- Section 097723 – Fabric Wrapped Panels

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

1. Except where found to be in 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. Include taping and finishing of drywall surfaces.
7. Provide UL listed fire rated assemblies as shown.
8. Furnish and install all firestopping, sealant or caulking except for MEPP penetrations in fire rated walls, fire rated enclosures above light fixtures, fire safe insulation if required and fire stop between floors.
9. Furnish only weather barrier material at brick ties.
10. Inspect all penetrations through the weather barriers system for proper sealing and bring all non-conforming penetrations to the attention of the superintendent.

11. Provide expansion joints in walls and ceiling joint systems as shown.
12. Furnish and install all batt, blanket type and acoustical insulation per construction documents.
13. Insulate at steel beams where shown on construction documents.
14. Furnish and install board insulation (except where installed by concrete and masonry bid packages).
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 all blocking (plywood, lumber, or metal strap) for millwork, doors, windows, frames, louvers, toilet accessories, aluminum storefront systems, toilet partitions, fire extinguishers, roof blocking, 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. *All wall blocking associated with Section 054000 – Cold-Formed Metal Framing and Section 092216 – Non-Structural Metal Framing referenced in item 22 above.*
2. *Furnish and install all fire treated plywood in construction documents. (Bowling Alley)*
3. *Furnish and install Altro WhiteRock as indicated in construction documents. (Bowling Alley)*
4. *At acoustical tile ceilings, center tile/grid withing the room unless otherwise noted.*
5. *At acoustical tile ceilings, center light fixtures, speakers, smoke detectors, other ceiling mounted items in the ceiling tile unless noted otherwise.*
6. *Furnish and install fry reglets as shown in construction documents. Reference C6/A-601 (Bowling Alley)*
7. *Review overbuild E1/A-502.*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*

**Section D: Project Alternates:**

**Fire Training Alternate No. 01 – Interior Finish**

**Alternate Bid:** *Provide the full scope as shown on the construction documents.*

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 09.1 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 1 – General Requirements
- Section 093013 – Ceramic Tiling flooring
- Section 096500 – Resilient Flooring
- Section 096513 – Resilient Base and Accessories
- Section 096816 – 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 floorstone per 30SF of flooring. Floorstone not used in one area may be added to another area. Prime surfaces per mfg.'s directions if required.
6. Furnish and install all modular carpet tile.
7. Furnish and install porcelain and ceramic tile.
8. Furnish and install all athletic flooring.
9. Furnish and install all LVT.
10. Furnish and install all resilient flooring, base, and transition strips.
11. Furnish and install all expansion and construction joints including keyways, dowels and saw cutting as required.
12. Provide and install all floor-to-floor expansion joint covers as required.
13. Include waterproofing at showers or shower pans.
14. Provide initial cleaning of resilient materials, carpet, and tile upon completion of installation in strict accordance with the manufacturer's recommendations.
15. Remove visible adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer. Remove protruding yarns from carpet surface.
16. Protect flooring against mars, marks, indentations, and other damage from construction. Use protection methods indicated or recommended by tile manufacturer.
17. Provide "extra stock" materials as identified in the construction documents.

**Section B: Project Specific Requirements:**

1. *Provide transition as shown on A5/A 501 for transition from athletic flooring to resilient flooring.*
2. *Build integrated mockups as indicated in specifications to include scope(s) included in this bid package.*
3. *Testing shall be performed on mockups according to requirements in "Field Quality Control" Article.*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*

**Section D: Project Alternates:**

**Fire Training Alternate No. 01 – Interior Finish**

**Alternate Bid:** *Provide the full scope as shown on the construction documents.*

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 09.2 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 1 – General Requirements
- Section 096723 – Resinous Flooring

***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.
7. Provide moisture testing before starting work.

### ***Section B: Project Specific Requirements:***

1. *Provide mfg. approved cove filler and zinc strip and all other components necessary for this application.*
2. *Provide metal termination strip as shown on A 11/A-501.*

### ***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*

### ***Section D: Project Alternates:***

#### **Fire Training Alternate No. 01 – Interior Finish**

***Alternate Bid:*** *Provide the full scope as shown on the construction documents.*

### ***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**



## 09.3 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 1 – General Requirements
- Section 097200 – Wall Coverings
- Section 099113 – Exterior Painting
- Section 099123 – Interior Painting

***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. Protect all adjacent surfaces against painting.
4. 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.
5. Include painting of open structure ceilings as noted on finish schedule.
6. Paint mechanical and electrical equipment, ductwork, conduit and piping as required.
7. Include painting of open structure ceilings as noted on finish schedule.
8. Includes touch up of walls, ceilings, and all other painted surfaces as required by industry standards.
9. Include interior caulking at hollow metal frames, window frames, storefront frames, sills and other beauty caulking as needed.
10. Furnish and install wall fabrics coverings.
11. Include painted graphics.
12. Include stenciling of fire and smoke walls as required.
13. 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.

**Section B: Project Specific Requirements:**

1. *Paint all equipment and piping with the exception of aluminum and stainless steel surfaces.*
2. *Build integrated mockups as indicated in specifications to include scope(s) included in this bid package.*
3. *Testing shall be performed on mockups according to requirements in "Field Quality Control" Article.*
4. *Furnish and install all vinyl wall coverings as indicated in construction documents.*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*

**Section D: Project Alternates:**

**Fire Training Alternate No. 01 – Interior Finish**

*Alternate Bid: Provide the full scope as shown on the construction documents.*

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 10.0 Building Specialties Installed

### **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 1 – General Requirements
- Section 107615 – Ground-Set Flagpoles
- Section 101419 – Dimensional Letter Signage
- Section 102113 – Toilet Compartments
- Section 102800 – Toilet, Bath and Laundry Accessories
- Section 102600 – Wall Protection
- Section 104413 – Fire Extinguisher Cabinets
- Section 104416 – Fire Extinguishers

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

#### ***Specialty Installation***

1. Install 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.
2. Install fire extinguishers and cabinets. Coordinate type and capacity of fire extinguishers with fire protection cabinets to ensure fit and function.
3. Coordinate layout and installation of projection screens with adjacent construction, including ceiling suspension systems, light fixtures, HVAC equipment, fire-suppression system, and partitions.

#### ***Materials***

1. This is an all-inclusive bid package. 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.

#### ***Signage***

1. Furnish and deliver signage in compliance with the ADA-ABA Accessibility Guidelines.
2. Provide dimensional characters from specified manufacturer.

3. All material will be handled, inventoried, and protected by Construction Manager. Construction Manager will provide a secure lockup for storage.

#### ***Toilet Partitions & Hand Dryers***

1. Furnish all toilet compartments, screens, accessories, and hardware as indicated and specified.
2. Furnish all toilet and bath accessories and hardware as indicated and specified.
3. Ensure electrical requirements for hand dryers are coordinated with construction documents.

#### ***Wall Protection***

1. Supply all material, equipment, and associated hardware to provide a complete installation of wall protection, end wall guards, and corner guards.

#### ***Fire Extinguishers***

1. Supply all portable fire extinguishers and fire extinguisher cabinets as indicated and specified.
2. Provide maintenance data of fire protection cabinets and fire extinguishers to be included in maintenance manuals.
3. Coordinate type and capacity of fire extinguishers with fire protection cabinets to ensure fit and function.

#### ***Section B: Project Specific Requirements:***

1. *Include delegated design for ground set flagpole.*
2. *Include signage for Dedication Plaque, Fire Seal and Room Signage.*
3. *Include Exterior "Memory Lanes" sign per detail F8.*
4. *Provide and Install Gear Soap Shelf, Utility Shelf*
5. *Install all owner furnished equipment shown on schedule on sheet AF101.*
6. *Provide and install bike rack per detail 8 on sheet L101.*

#### ***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*

#### ***Section D: Project Alternates:***

##### **Fire Training Alternate No. 01 – Interior Finish**

***Alternate Bid:*** *Provide the full scope as shown on the construction documents.*

#### ***Section E: Unit Pricing:***

2. N/A

**END OF BID PACKAGE**

## 10.1 Lockers (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 1 – General Requirements
- Section – 105100 Lockers

***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.

### ***Section B: Project Specific Requirements:***

1. *Supply and Install all lockers in the bowling alley.*
2. *Install all owner furnished lockers in fire station.*

### ***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*

### ***Section D: Project Alternates:***

1. N/A

### ***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 11.0 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 1 – General Requirements
- Section 113013 – Residential Appliances
- Section 114000 – 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 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 serving line equipment.
5. Coordinate with 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, so as 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. Provide and Install Ice Maker, Convection Oven, Dishwasher, and gas cooktop per Sheet AF101.

### ***Section C: Project-Specific Exclusions:***

1. All federal, state, and local taxes.

### ***Section D: Project Alternates:***

1. N/A

***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 11.1 Bowling 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 1 – General Requirements

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

1. Installer is an employer trained and approved by manufacturer.
2. Provide and install all bowling equipment as indicated and specified per the manufacturer's recommendations.
3. Installer must coordinate Division 03 "Cast-in-Place Concrete" for installations 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 bowling equipment.
4. 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. Brunswick Bowling Basis of design – Sheet A101.

### ***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*

### ***Section D: Project Alternates:***

1. N/A

### ***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**



## 12.0 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 1 – General Requirements
- Section 122413 – Roller Window Shades

***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.

### ***Section B: Project Specific Requirements:***

1. *Build integrated mockups as indicated in specifications to include scope(s) included in this bid package.*
2. *Provide shop drawings for mockup(s) required per construction documents per section 014000*

### ***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*

### ***Section D: Project Alternates:***

1. N/A

### ***Section E: Unit Pricing:***

2. N/A

**END OF BID PACKAGE**

## 13.0 Pre-Engineered Metal Building (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 1 – General Requirements
- Section 133419 – Metal Building Systems

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

#### ***Fabrication***

1. All steel work shall be fabricated 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 misc. steel items, catwalks, stairs, flag poles, sprinklers, scoreboards, and any other items attached to the building.
3. Fabricate and deliver all pre-engineered primary steel framing members, secondary framing members, bracing, bridging, joists, decking, edge and other angles, bent plates, connectors, studs, and fasteners as indicated in the construction documents and as required for a complete, sound structural system.
4. Furnish miscellaneous framing/support for mechanical, plumbing, and electrical equipment.
5. Fabricate and deliver all rough hardware, bearing and leveling plates, miscellaneous steel trim, shelf and relief angle, tread plate and supports, railings and handrails.
6. Fabricate and supply anchor bolts as indicated in the construction documents.
7. Grout anchor bolts and bearing conditions “Non-Shrink Grout”.
8. Provide all sleeve anchors and any anchors that connect steel to other materials.
9. Furnish wall and roof insulation as noted in the Construction Documents. Include thermal block if required.
10. Provide template and project superintendent for layout prior to pouring concrete.
11. Provide roof curbs for HVAC equipment.
12. Furnish rigid insulation at beam voids if required.
13. Furnish soffit insulation if required.
14. Furnish metal wall, roof, and soffit panels as noted in the Construction Documents. Include all flashing, trims and gutters and downspouts necessary for a complete, fit, finished product.
15. Furnish flashing and boots at all roof penetrations. Include prefinished metal flashing around wood blocking at louvers if required.
16. Anchor bolt layout and bolts will require early approval and delivery to accommodate concrete phase of work.
17. Furnish snow guards as required by contract documents.
18. All steel exposed to view shall be oil free, have welds ground smooth, and be of sufficient quality for an exposed and finished surface.

19. Include prime painting (galvanized where required by the bid documents) and touch-up (where required) as indicated in the construction documents.
20. 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.
21. 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.
22. Include the roof warranty per construction documents when it exceeds the manufacturer's standard warranty.

#### ***Installation***

1. All steel work shall be erected and installed from approved shop drawings furnished by the PEMB fabricator. Confirm that you are working from the latest approved "field use" drawings prior to start of your work.
2. 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.
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. Erect and install all materials furnished in Bid Package 13.01.
5. All steel exposed to view shall be oil free, have welds ground smooth, and be of sufficient quality for an exposed and finished surface.

#### ***Section B: Project Specific Requirements:***

1. *Furnish and install canopy as noted on F1/A-201 (Bowling Alley). Provide necessary blocking per MFG for install while erecting PEMB.*
2. *Furnish and install fabric liner per construction documents.*
3. *Include delegated design as required for PEMB referenced in specifications.*

#### ***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*

#### ***Section D: Project Alternates:***

***N/A***

#### ***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 21.0 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 1 – General Requirements
- Section 078413 – Penetration Firestopping
- Section 083113 – Access Doors and Frames
- Section 210000 – Complete

***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 difference 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. Perform flow test as required.
9. Provide cut-in of heads in acoustical ceiling tile if applicable
10. Coordinate with electrical, HVAC, and plumbing trades to avoid all layout conflicts.
11. Furnish to other trades any access doors needed for access to fire protection installation.
12. Provide hose valves, backflow devices, cabinets, and hoses per plans and specifications.
13. Provide all connections and attachments to existing fire suppression sprinkler system as required.
14. Provide fire-stopping assemblies where necessary for penetrations created by this scope of work.
15. Provide all compliance reports and certificates as required by specifications.
16. Include training of Owner's staff.

### ***Section B: Project Specific Requirements:***

1. *Adhere to allowable holes/notches in wall studs as shown on 2/S-500*
2. *Provide stud guards at locations where penetrations have been made in walls/plates to protect installed materials.*

3. *Building is wood framed therefore any locations with suspended ceilings create light hazard for combustibile spaces between ceilings & roof deck. FPC shall provide sprinkler protection of combustibile concealed spaces in accordance with NFPA 13.*
4. *At acoustical tile ceilings, center light fixtures, speakers, smoke detectors, other ceiling mounted items in the ceiling tile unless noted otherwise.*
5. *Delegated engineered design and local Fire Marshall approval.*
6. *Start work at flange located at 1' above finished floor.*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*
2. *Fire water utilities.*

**Section D: Project Alternates:**

1. N/A

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 22.0 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 1 – General Requirements
- Section 078413 – Penetration Firestopping
- Section 083113 – Access Doors and Frames
- Section 220000 – Complete

***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 is 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 selective demolition required to install work in existing building. Remove plumbing items per plumbing plans shown to be removed and legally dispose of off site. Cap existing lines.
26. Include all associated blocking, anchors, stenciling and tagging for this scope of work.
27. 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.
28. Coordinate with other trades to locate sleeves and to ensure plumbing does not interfere with any other items.
29. Include all plumbing identification including color coding, stencil, labels tags, etc. per construction documents.
30. Include cutting, coring and patching required for plumbing installations.
31. Supply any access doors (10" x 10" min.) required by contract documents for access to plumbing equipment.
32. Install flashing or sealant at each exterior weather barrier penetration per weather barrier manufacturer's recommendation.
33. Include all final connections to Owner-furnished equipment.
34. 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.
35. Furnish and install all appliance related plumbing as required.
36. Supply roof drains to be installed by roofing contractor. Include roof drain piping and connection to roof drains.
37. Furnish and install solid and/or grease intercepts per construction documents.
38. Furnish and install oil/sand separator.
39. Include fire-stopping for penetrations created by this scope of work.
40. Include sealants (color selected by Architect) around all plumbing fixtures, sinks and lavatories.
41. 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.
42. Include cleaning, purging and flushing of all lines when complete as related to this scope of work.
43. Ensure all equipment has adequate maintenance access when in place.
44. Clean up waste and debris generated by this scope of work and dispose on a daily basis and as directed by the construction manager.
45. Include documented instructional training to the owner's representative regarding the operation and maintenance of the plumbing systems.
46. All warranties for fixtures, devices, and equipment begin at date of Substantial Completion of Project.

***Section B: Project Specific Requirements:***

1. Adhere to allowable holes/notches in wall studs as shown on 2/S-500
2. Provide stud guards at locations where penetrations have been made in walls/plates to protect installed materials.
3. Provide necessary chase piping to accommodate beverage dispenser allow for chase 10' AFF.
4. Provide all piping and components shown in drawings for compressed air.
5. Include all plumbing piping to within 5' of the outside of the building. Connection to be provided by last contractor installing.
6. Provide and install trench drains shown on sheet P111.

***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*
2. *All utility work 5' outside the building.*

***Section D: Project Alternates:***

**Fire Station Alternate No. 02 – App Bay Radiant Flooring**

***Alternate Bid:*** *No radiant heaters. Provide radiant flooring as shown throughout the construction document set. Reference architecture, structural, plumbing, mechanical, and electrical drawings.*

**Fire Training Alternate No. 01 – Interior Finish**

***Alternate Bid:*** *Provide the full scope as shown on the construction documents.*

***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**



## 23.0 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.

### **APPLICABLE SPECIFICATIONS**

- Division 1 – General Requirements
- Section 078413 – Penetration Firestopping
- Section 083113 – Access Doors and Frames
- Section 230000 – Complete

***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, 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 (10" X 10" min.) required by contract document for access mechanical 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. Include fire-stopping, fire sealing and caulking for penetrations created by this scope of work.
20. 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.
21. 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.
22. Coordinate with food service or laboratory contractor for tie-in locations of mechanical items relating to their equipment.
23. Furnish and install supports for return air boots as necessary.
24. Include all final connections to Owner-furnished equipment.
25. HVAC contractor shall provide the kitchen hood fire suppression system per plans and specifications.
26. Include testing, adjusting and balancing per contract documents.
27. Include Commissioning per construction documents as required.
28. Include documented instructional training to the owner's representative regarding the operation and maintenance of the plumbing systems.
29. All warranties for fixtures, devices, and equipment begin at date of Substantial Completion of Project.
30. Include warranty per construction documents on all equipment regardless if used temporarily during construction for climatization.

**Section B: Project Specific Requirements:**

1. *Adhere to allowable holes/notches in wall studs as shown on 2/S-500*
2. *Provide stud guards at locations where penetrations have been made in walls/plates to protect installed materials.*
3. *Coordinate penetrations in building façade, coordinate and cast stone sill with masonry contractor as indicated on H 1/A-201.*
4. *At acoustical tile ceilings, center light fixtures, speakers, smoke detectors, other ceiling mounted items in the ceiling tile unless noted otherwise.*
5. *Provide and install louver as shown on sheet A-201.*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*

**Section D: Project Alternates:**

**Fire Station Alternate No. 02 – App Bay Radiant Flooring**

**Alternate Bid:** *No radiant heaters. Provide radiant flooring as shown throughout the construction document set. Reference architecture, structural, plumbing, mechanical, and electrical drawings.*

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 26.0 Electrical, Communication and Electronic Safety

### 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 1 – General Requirements
- Section 078413 – Penetration Firestopping
- Section 260000 – Complete
- Section 270000 – Complete
- Section 280000 - Complete

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

1. This package includes all electrical, communication, and electronic safety and security scopes. Bidders wishing to bid only electrical, communications, or electronic safety and security are advised to bid the respective package as described in the Construction Management Manual.
2. Provide all temporary lighting and power distribution in buildings as required for construction activities.
3. Provide all site power and/or lighting electrical work.
4. Provide all site trenching and duct banks needed for electrical and communication underground raceways and/or cables.
5. Deposit dirt spoils in area on site designated by the Project Superintendent.
6. Provide any conduit, pull strings, j-boxes etc. for any Division 26, 27, or 28 empty raceway systems as required per plans and specifications.
7. Provide any building primary/secondary electrical switchgear, panels, emergency power and/or generator systems as per plans and specifications.
8. Provide all raceway, wiring and terminations of VFD and/or starters that are furnished and installed by HVAC Subcontractor.
9. Provide any grounding systems, lightning protection systems, and certifications as required per plans and specifications.
10. Provide fire stopping for all penetrations created by this scope.
11. Provide all final connections and terminations for Owner Furnished Equipment.
12. Provide all final electrical connections and terminations as required to equipment furnished and installed by other bid packages.
13. Provide equipment and device testing, checkout and/or load studies as required per plans and specifications.
14. Provide control wiring for automatic doors.
15. Provide rough in for owner door access (card readers)
16. Provide training of Owner's staff on electrical equipment.
17. Provide all raceway, wire, termination, poles, light fixtures, and grounding for site lighting.

18. In the case of difference between drawings, specification, codes local & state laws, ordinances or contract documents, the most stringent governs.
19. All warranties for fixtures, devices, equipment and gear begin at the date of the Project's Substantial Completion.

**Section B: Project Specific Requirements:**

1. *Provide stud guards at locations where penetrations have been made in walls/plates to protect installed materials.*
2. *At acoustical tile ceilings, center light fixtures, speakers, smoke detectors, other ceiling mounted items in the ceiling tile unless noted otherwise.*
3. *Provide low voltage connection to alerting system. Coordinate with alerting system vendor.*
4. *Include delegated design as required for hanger and support per specifications as well as concrete light pole foundation and pole power system.*
5. *Include delegated design as required for fire alarm and detection systems.*

**Section C: Project-Specific Exclusions:**

1. *All federal, state, and local taxes.*

**Section D: Project Alternates:**

**Fire Station Alternate No. 02 – App Bay Radiant Flooring**

*Alternate Bid: No radiant heaters. Provide radiant flooring as shown throughout the construction document set. Reference architecture, structural, plumbing, mechanical, and electrical drawings.*

**Fire Training Alternate No. 01 – Interior Finish**

*Alternate Bid: Provide the full scope as shown on the construction documents.*

**Section E: Unit Pricing:**

1. N/A

**END OF BID PACKAGE**

## 31.0 Earthwork, Storm Drainage and Site Utilities

### 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 1 – General Requirements
- Section 311000 – Site Clearing
- Section 312000 – Earth Moving
- Section 333300 – Sanitary Sewers
- Section 334100 – Storm Utility Drainage Piping

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

#### *Earthwork and Storm Drainage*

1. Coordinate the procurement of all paperwork, permits, fees, and bonds necessary for the work covered under this agreement, bearing all cost associated.
2. Professional surveyor to establish benchmarks, set lines and levels to layout building(s) and parking under this scope of work. Provide all site layout and engineering required including maintenance of such.
3. Maintain storm water prevention plan in accordance with requirements of the local jurisdiction(s).
4. Provide erosion control, maintenance of positive site drainage, and dewatering as it relates to the work. Maintain positive site drainage.
5. Provide all barricades, excavation protection, traffic control, and flagmen as necessary for the work.
6. Include all applicable taxes for this scope of work.
7. Locate existing utilities and structures prior to commencement of work. Damage to existing utilities and structures as a result of this work will be paid for by the sitework contractor.
8. 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.
9. Provide all site demolition (including saw cutting) and removal from site. Demolition includes, but is not limited to asphalt paving, base, concrete paving, curbs, walks, poles bases, stairs, ramps, retaining walls, and foundations. Provide demolition of all abandoned or terminated underground utility lines and structures.
10. Provide, maintain, and remove protection around all trees to be saved using orange safety netting.
11. Provide all site clearing, grubbing, tree and stump removal, hauling, and dumping.
12. Strip, store, and protect topsoil. Replace and grade to within (±) .10 feet. Remove excess topsoil from site or stockpile in a location as directed by Construction Manager.
13. Provide watering/water trucks as required to provide compaction and to control dust.
14. All grading, cut, fill, disk and or processing, compaction to 95% standard optimum density (or as otherwise specified). Grades to be provided to (+/-) .10 feet of specified subgrade. Provide import of

necessary fill or hauling of excess cut if necessary. Excessive slopes shall be laid back at a 2:1 slope as required.

15. Final grading and topsoil replacement to be done after all trades are finished. Fill all ruts, back of curbs, sidewalk edges, paving edges and against buildings. Provide suitable topsoils to specified topsoil depth. Topsoil shall be equivalent to clean sandy loam if site topsoil is insufficient or unsuitable. Seed as required by construction documents. All areas disturbed by construction activities shall be re-graded and backfilled.
16. Coordinate soils testing with Project Superintendent and testing agency.
17. Pay for any retesting in the event of failed compaction test.
18. Provide test certificates for offsite fill if used.
19. Provide and install all storm sewer including related concrete structures.
20. Provide a complete storm drainage piping system. Curb inlet tops will be provided by others.
21. Grated inlets to be completed as part of this package.
22. At future storm drain inlet locations, temporary enclosures may be necessary to maintain water flow and to avoid debris in piping.
23. Provide as-built site drawings documented by professional surveyor.

#### ***Site Utilities***

24. All permits, fees, and right of way bonds required to form this work.
25. Field engineering and site layout required to perform this scope of work.
26. Verify locations of existing utilities and services prior to commencement of work.
27. Include necessary traffic and dust control including signage and barricades required.
28. Provide complete underground system from utility service main to location at building or as noted.
29. Provide all excavation and backfill required for underground utilities.
30. Clean up site and adjoining streets while working onsite. Power wash all paving, drives and walks at the end of project. Remove and legally dispose off site of all debris associated with this trade package. Do not use dumpsters.
31. Sewer line complete – Furnish and install all materials including structures and sleeves required, tie in to building sewer.
32. Water main complete – Furnish and install all materials including connection to city service, hydrants, thrust blocks, etc.
33. Furnish and Install concrete structures as required.
34. Furnish and Install backflow preventers and testing.
35. Repair paving and sidewalks including re-striping where needed.
36. All cutting, patching, excavation, backfill and boring as required to construct utility lines.
37. Dewatering of the excavations associated with this scope of work as required. Preserve structural integrity and workability.
38. Clean and flush all lines when complete.
39. Dispose of all spoils offsite.

#### ***Section B: Project Specific Requirements:***

1. Include lime stabilization per the geotechnical report in the specifications.
2. All grades to slope away from the building at 5% for the first 10 feet.
3. Include all utility work for fire water lines to inside the building stopping at a flange 1' above finished floor.
4. Include all sanitary sewer lines, domestic water lines, and storm sewer lines to within 5' of the buildings. Connection to be provided by last contractor installing.

**Section C: Project-Specific Exclusions:**

1. Natural Gas Utilities and Meters

**Section D: Project Alternates:**

1. N/A

**Section E: Unit Pricing:**

Unit Price 1 - Mass rock excavation and removal from site. Cost per cubic yard \$ \_\_\_\_\_

Unit Price 2 – Trench Rock excavation and removal from site. Cost per cubic yard \$ \_\_\_\_\_

Unit Price 3 – General excavation and removal from site (spoils removal). \$ \_\_\_\_\_

Unit Price 4 – Unsuitable soils remove & replace from onsite materials. \$ \_\_\_\_\_

Unit Price 5 – Unsuitable soils remove & replace with granular fill (Dirty Base) \$ \_\_\_\_\_

Unit Price 6 – Unsuitable soils remove & replace with ¾" clean rock. \$ \_\_\_\_\_

Unit Price 7 – Unsuitable soils remove & replace with structural fill (LVC Material) \$ \_\_\_\_\_

Unit Price 8 – Over excavation and replacement with lean concrete. \$ \_\_\_\_\_

Unit Price 9 – Footing Excavation \$ \_\_\_\_\_

Unit Price 10 – Import and Placement of Topsoil \$ \_\_\_\_\_

**END OF BID PACKAGE**



## 32.0 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 1 – General Requirements
- Sections 321216 – 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.
7. Provide all striping, bumper blocks, and traffic signage and ADA signage.

### ***Section B: Project Specific Requirements:***

1. Provide all base rock needed for asphalt paving.
2. Provide and Install ADA Signage and Pavement markings (bowling alley only) on sheet C601.

### ***Section C: Project-Specific Exclusions:***

1. All federal, state, and local taxes.
2. Pavement markings, signage, and bumper blocks for fire station and fire training buildings.

### ***Section D: Project Alternates:***

1. N/A

### ***Section E: Unit Pricing:***

1. N/A

## END OF BID PACKAGE

### 32.1 Fencing

#### 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 1 – General Requirements
- Section 323113 – Chain Link Fences and Gates

***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 fencing system as shown in the construction documents.
4. Coordinate elevations/grade prior to setting posts (galvanized & wood) with site superintendent.
5. Provide any concrete necessary to complete this work.
6. Furnish all hardware necessary to complete this work.

#### ***Section B: Project Specific Requirements:***

1. *Furnish and install all posts associated with fencing and trash enclosures.*
2. *Furnish and install all chain link fence and rolling gates.*
3. *Furnish and install Trash Enclosure Fence, Wood Pickets, Wood Framing, Wood Posts, Excavation and Concrete. Detail 3 & 4 on sheet S-210*

#### ***Section C: Project-Specific Exclusions:***

1. *All federal, state, and local taxes.*

#### ***Section D: Project Alternates:***

1. N/A

#### ***Section E: Unit Pricing:***

1. N/A

## END OF BID PACKAGE

### 32.2 Site Concrete

#### 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 1 – General Requirements
- Section 321313 - Concrete Paving

***All General Scope Requirements as outlined in Section 3.01.***

#### ***Section A: Trade- Specific Requirements***

1. Provide all layout and field measurements, including layout and installation of embedded items.
2. Coordinate equipment mobilization and productivity with overall Project Schedule. Provide concrete conveyance as necessary.
3. Provide barricades, traffic control, and flagmen as necessary for this work.
4. Provide generator power if electric is not readily available.
5. Repair, fine grade, and proof-roll subgrade to accept base course.
6. Provide compaction as required by the specifications.
7. Pay for any retesting in the event of failed compaction test.
8. Perform all associated excavation, backfill, and compaction required for site concrete assemblies. Haul excavation spoils to designated area on site for backfill. Remove excess spoils from site.
9. Furnish and install complete site concrete assemblies as noted below.
10. Provide all formwork and formwork accessories, bedding and leveling materials, reinforcing steel and reinforcing accessories, concrete ready-mix, admixtures, curing and hardening compounds, concrete accessories, joints and weeps, sleeves, finishing and rubbing, and installation of any and all embedded items furnished by others (including bollards, sleeves, bolts, etc.).
11. Provide sidewalks with gravel base.
12. Provide concrete paving with gravel base.
13. Provide concrete curb and gutter.
14. Provide cast-in-place curb inlets. Storm drain boxes provided under separate bid package.
15. Provide handicap ramps at sidewalk transitions with embedded detectable warning devices.
16. Provide foundations for all site walls.
17. Provide cast-in-place site walls.
18. Provide all mechanical housekeeping pads and transformer pads
19. Provide and utilize designated concrete wash area(s).
20. Clean up and remove concrete spillage.
21. Provide all cold weather and/or hot weather protection required to maintain Project Schedule.
22. Replace grades to original condition in affected areas adjacent to work performed.

23. 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 or removed and replaced at no additional cost to the Owner.
24. Provide all road cleanup required by activities of this work.

***Section B: Project Specific Requirements:***

1. *All sidewalks shall slope ¼" per foot away from buildings.*
2. *Include trash enclosure concrete pads.*

***Section C: Project-Specific Exclusions:***

1. Exclude storm drain structures. Storm drain structures provided under separate bid package.
2. All federal, state, and local taxes.

***Section D: Project Alternates:***

1. N/A

***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 32.3 Landscaping

### **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 1 – General Requirements
- Section 321813 – Artificial Turf
- Section 321813 – Rubberized Surfacing
- Section 323300 – Site Furnishings
- Section 329113 – Soil Preparation
- Section 329200 – Turf and Grasses
- Section 329300 – 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. Furnish and install sleeves.
7. Furnish and install hardscape materials as shown.
8. Provide initial maintenance as required by construction documents.
9. Kill existing vegetation prior to the installation of sod.
10. Roll sod as required to provided uniformity and proper contact with soil.
11. Provide all plantings and ground treatments (grass seed and/or sod) as outlined in the documents.
12. Provide watering/water trucks as required to provide compaction and to control dust.
13. Provide all road clean-up required by activities of this work.

### ***Section B: Project Specific Requirements:***

1. *Build integrated mockups as indicated in specifications to include scope(s) included in this bid package.*
2. *Provide and install all site furnishings shown in documents.*
3. *Provide shop drawings for mockup(s) required per construction documents per section 014000*

4. *Supply and install, Rubberized Surfacing and Artificial Turf, Decorative Gravel, Mulch, Seeding, Aggregate Mow strip , Gravel Pathway, Perforated pipe, geofabric, Bowling/Beach Ball Sculptures, Turf Mound, Limestone Seating, per sheet L104.*
5. *Supply and install amended topsoil as needed.*

***Section C: Project-Specific Exclusions:***

1. Earthwork.
2. Landscape irrigation.

***Section D: Project Alternates:***

1. N/A

***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 32.4 Rammed Aggregate Pier Foundation System

### **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 1 – General Requirements
- Section 336613 – Rammed Aggregate Pier Foundation System

***All General Scope Requirements as outlined in Section 3.01.***

### ***Section A: Trade- Specific Requirements***

1. Layout will be provided by Construction Manager to the extent of building corners and column lines. Subcontractor will be responsible for layout beyond these points.
2. Provide complete rammed aggregate pier soil reinforcement package to include (but not necessarily limited to): all equipment, material, labor, and supervision to design and install rammed aggregate pier elements.
3. Provide drilling activity for all foundations. Include removal of spoils from site.
4. Provide all road clean-up required by activities of this work.
5. Provide all barricades, traffic control, and flagmen as necessary for this work.
6. Repair or replace any fencing removed for access.

### ***Section B: Project Specific Requirements:***

1. Delegated engineering for a complete foundation system.
2. Include spoils removal for all excavations.

### ***Section C: Project-Specific Exclusions:***

1. Earthwork & lime stabilization.

### ***Section D: Project Alternates:***

1. N/A

### ***Section E: Unit Pricing:***

1. N/A

**END OF BID PACKAGE**

## 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 September 2025 thru September 2026.
2. A Construction Schedule is enclosed and will be provided to all Subcontractors and Suppliers with Project Contracts as commitments to the maximum durations and milestones to achieve. 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 further coordinate the Project Construction Schedule for better efficiencies of all parties.
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 10 days after award of contract.
4. Weather Days - The schedule durations will not be modified due to normal weather conditions. The subcontractor is required to plan/account for normal monthly weather conditions as related to schedule activity durations. The following is a list of inclement weather days for each month for the proposed job site that the Contractor shall account for in the schedule:

- |                     |                   |                      |
|---------------------|-------------------|----------------------|
| a. January- 5 days  | e. May- 3 days    | i. September- 3 days |
| b. February- 5 days | f. June- 3 days   | j. October- 4 days   |
| c. March- 4 days    | g. July- 2 days   | k. November- 4 days  |
| d. April- 4 days    | h. August- 2 days | l. December- 5 days  |

In the event of inclement weather, subcontractor shall work overtime and/or weekends to make up for the lost day and avoid impact to overall schedule. Additionally, subcontractor is responsible for any required dewatering, scarification, proof-rolling or other measures that may be needed to meet project schedule. Time extension will only be granted for days beyond allowable in which additional measures still did not allow work to occur.



## 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 Project-Specific Plan for Lean Practices

Subcontractor will actively participate in the lean construction practices employed by Nabholz. ***Lean construction is a management philosophy to improve flow and efficiency by reducing waste, adding value, and continuously improving.***

### DEFINITIONS

1. Goals of lean construction practices
  - a. Reduce waste to add value
  - b. Create reliable workflow
  - c. Continuously improve
2. Waste – any effort that does not add value
  - a. Defects – work not installed correctly, causing rework
  - b. Overproduction – building too much or out of sequence, making downstream work difficult
  - c. Waiting – unable to work due to missing information, materials, or prerequisite work
  - d. Non-Utilized (or under-utilized) Talent – failure to take full advantage of the best knowledge, experience, and ideas from all members of the team
  - e. Transportation – excess movement of materials or equipment before final installation
  - f. Inventory – excess materials delivered before needed, causing congestion in the workplace
  - g. Motion – excess movement by workers to complete tasks
  - h. Extra Processing – unnecessary steps to complete work, often the result of other wastes
3. 5S – a methodology to optimize productivity, organization, and efficiency
  - a. Sort – eliminate what's not needed
  - b. Straighten – organize what remains and prioritize for maximum efficiency
  - c. Shine – improve cleanliness and ensure good working order
  - d. Standardize – develop system to replicate and maintain improvements
  - e. Sustain – maintain improvements and seek to do better

### PROJECT-SPECIFIC PLAN

The following lean practices will be utilized on the project if checked in the matrix.

<input type="checkbox"/>	Nothing Hits the Floor	Materials, tools, and equipment on wheels or palettes
<input type="checkbox"/>	Phase Planning (pull planning)	Collaborative planning to establish workflow to intermediate milestones
<input type="checkbox"/>	6-Week Look-Ahead Planning	Detailed plan of activities for upcoming work
<input type="checkbox"/>	Percent Planned Complete	Measurement of activities completed according to plan
<input type="checkbox"/>	Daily Huddle	Short daily review of activities and constraints
<input type="checkbox"/>	Right Time Material Delivery	Minimize duration of material storage on site
<input type="checkbox"/>	Prefabrication	Assemble building elements away from the work area

## LEAN PRACTICES

Subcontractor agrees to actively participate in the following lean practices, which include but are not limited to the activities described.

### 1. Nothing Hits the Floor

- a. Definition – Keep materials, tools, and equipment on wheels or palettes to the greatest extent possible.
- b. Goals
  - i. Improve housekeeping by eliminating accumulated debris piles
  - ii. Reduce trip hazards
  - iii. Improve efficiency of work areas by eliminating obstacles
- c. Execution
  - i. All materials shall be loaded onto wheeled carts, dollies, or palettes to allow easy movement and facilitate organization within the work areas.
  - ii. Plan work activities to minimize or eliminate off-cuts, debris, and excess materials from piling up on the floor. Debris containers shall be wheeled to facilitate efficient placement and ease of debris transport.
  - iii. All work areas shall be kept clean, organized, and broom swept, with no materials left on the floor at the end of the workday.
  - iv. All materials and small tools are to be neatly stored and organized and work areas kept free of debris, surplus equipment, and surplus materials.
  - v. Whenever feasible, assembly of components and preparation of materials shall be accomplished at tabletop height to encourage healthy posture for workers.
  - vi. Wherever feasible, Subcontractors shall unpackage materials and dispose of packaging waste at their own shops rather than the job site.
  - vii. Wherever feasible, Subcontractors shall endeavor to utilize cordless tools to eliminate the trip hazards associated with electrical extension cords.

### 2. Phase Planning (pull planning)

- a. Definition – Collaborative work session in which activities are pulled forward from identified intermediate milestones to establish workflow and sequence.
- b. Goals
  - i. Develop reliable workflow
  - ii. Commit as a team and as individuals to the dates and work sequence agreed upon
  - iii. Identify potential constraints early in order to manage and mitigate them
- c. Execution
  - i. Nabholz will identify intermediate project milestones within the Master Project Schedule. Milestones shall not typically extend past 4 months.

- ii. When invited, Subcontractor shall actively participate in planning meeting, represented by a foreman or superintendent with knowledge of the work and authority to commit to dates and crew sizes.
  - iii. If requested by Nabholz, Subcontractor shall prepare for meeting ahead of time and submit activities and durations to be sequenced in planning session.
  - iv. Following the meeting, Nabholz shall import the activities, durations, and sequence into the Master Project Schedule.
  - v. Nabholz shall maintain visual communication tools such as constraint boards to manage and mitigate potential issues that arise in pull planning work sessions.
- 3. 6-Week Look-Ahead Planning
  - a. Definition – Detailed plan of activities scheduled to occur in the next six weeks.
  - b. Goals
    - i. Identify and prepare for specific upcoming tasks
    - ii. Ensure that all materials, tools, equipment, or information are secured for upcoming tasks
    - iii. Identify and mitigate constraints that may prohibit tasks from being completed
    - iv. Consistently make work ready in order to maintain project flow
  - c. Execution
    - i. Nabholz will develop the 6-week look-ahead plan based on the Phase Plan (pull plan) and Master Project Schedule.
    - ii. When invited, Subcontractor shall actively participate in weekly planning meeting with Nabholz superintendent, represented by a foreman, superintendent, or project manager with knowledge of the work and authority to commit to dates and crew sizes.
    - iii. Nabholz shall distribute completed 6-week look-ahead plan to all subcontractors.
    - iv. Nabholz shall maintain visual communication tools such as constraint boards to manage and mitigate potential issues that arise in look-ahead planning meetings.
- 4. Percent Planned Complete
  - a. Definition – Measurement of completion of the tasks to which the team committed, and analysis of the root causes for missed dates.
  - b. Goals
    - i. Analyze root causes of missed dates to eliminate constraints and improve performance
    - ii. Keep the team accountable to their commitments
  - c. Execution
    - i. At the 6-week look-ahead planning meeting, Nabholz will lead a review of the previous week's plan and record whether or not each task was completed on time.
    - ii. If a task was not completed as planned, the team will briefly discuss why and select a root cause to categorize the missed commitment.
    - iii. Nabholz will maintain records of weekly performance and overall project to date.
- 5. Daily Huddle
  - a. Definition – A short coordination meeting to review daily planned activities and constraints.

- b. Goals
    - i. Collaborate among crew leaders
    - ii. Ensure reliable workflow
  - c. Execution
    - i. If Subcontractor is working on site that day, Subcontractor's foreman shall join the Nabholz superintendent for a 20-minute coordination meeting to review planned activities and to discuss constraints.
    - ii. Nabholz superintendent will determine time and location of huddle.
    - iii. Discussion typically reviews planned tasks, crew sizes, material deliveries, and constraints.
    - iv. Nabholz shall maintain visual communication tools such as constraint boards to manage and mitigate potential issues that arise in daily huddles.
6. Right Time Material Delivery
- a. Definition – Deliver to the job site only the quantity of materials that may be consumed within a defined timeframe, typically two weeks.
  - b. Goals
    - i. Eliminate long-duration stored materials in the work area
    - ii. Decrease congestion in the work area, improving efficiency and productivity
    - iii. Reduce the chances for material damage while materials await installation
  - c. Execution
    - i. Materials stored on site shall be labeled with Subcontractor's name, phone number for Subcontractor's foreman or superintendent, and the date of material delivery.
    - ii. Materials delivered shall be incorporated into the work within 10 working days of delivery.
    - iii. Exceptions may be approved by Nabholz.
7. Prefabrication
- a. Definition – Assemble elements of construction away from the work area, typically off-site in a warehouse or shop, and deliver complete assemblies to jobsite ready for installation.
  - b. Goals
    - i. Reduce man-hours on the job site
    - ii. Reduce the overall on-site duration
    - iii. Improve the quality of constructed elements
    - iv. Improve worker safety away from jobsite hazards
  - c. Execution
    - i. Wherever feasible, and with prior Nabholz approval, Subcontractor shall plan to prefabricate components off-site in a shop or other controlled environment.
    - ii. Prefabricated assemblies should be carefully coordinated with the adjacent work of other trades, preferably within a virtual model.
1. When testing is required of a completed system, such as air testing in a plumbing assembly, testing may be completed off-site as part of the prefabrication process. Requirements for testing documentation do not change.