



Trade Partner Scope of Work

Exhibit A

BP- 05A Structural and Misc. Steel

North Brunswick High School Addition and Renovations

A. The subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, services, rigging, craning and hoisting of all materials and equipment and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

Supplemental Instructions to Bidders dated April 17, 2020

S&ME Geotechnical Exploration Report dated August 21, 2019

Associated Specifications

Division 00 Procurement and Contracting Requirement

Division 01 General Requirements

05 12 00 STRUCTURAL STEEL FRAMING
05 21 00 STEEL JOIST FRAMING
05 31 00 STEEL DECKING
05 50 00 METAL FABRICATIONS
05 51 13 METAL PAN STAIRS
10 53 01 PREFABRICATED HANGER ROD CANOPIES
07 21 00 Thermal Insulation (For Own Work)

B. Subcontractor's work specifically includes:

1. All bidders to note project includes all plans and specifications for the Two-Story Classroom Addition, ROTC Building, Cafeteria Expansion, and Classroom 413 Renovations.
2. In general, this package is for the furnishing and installation of the all Structural Steel, Stairs, Pipe and Tube handrails and Misc. Steel. This includes but is not limited to:
 - a. All column anchor bolts provided by this sub, installed by BP-03A.
 - b. All Structural Steel, metal deck, misc. angles.
 - c. All columns, beams, girders, Nelson studs, lintels, loose lintels and misc. metal
 - d. All elevator pit ladders, ship ladder and roof top ladders
 - e. All bent plate pour stop
 - f. All elevator sump pit grates and frames.
 - g. All steel stairs.
 - h. All building railings.
 - i. ADA Survey of Stairs for building closeout, prior to pouring



- j. Any miscellaneous metal/steel as shown on architectural, structural, mechanical, plumbing and electric drawings. Including but not limited to roof access ladder, elevator ladders, grates, misc. wall supports/brackets, imbeds, etc.
- 3. Provide all loose lintels, embeds, anchor bolts and shims. Installed by BP-04A.
- 4. Prime paint touch up of field welds will be performed by steel erection subcontractor.
- 5. Steel erector is responsible for cleaning off any dirt and debris from the structural and misc. steel.
- 6. All steel and aluminum rails as shown on contract documents and alternates.
- 7. Provide and install roof openings frames for roof drains, equipment, as shown on roof plan, decking inside of frame will be removed by others.
- 8. Engineer's stamp on any delegated design items. I.E. Stairs, Railings etc.
- 9. Includes unloading of anchor bolts, loose lintels. Dunage for storage of steel is included as part of subcontractor's scope.
- 10. Pay close attention to steel that gets primed versus non-primed for fire proofing application
- 11. Furnish all bollards as indicated on architectural and civil drawings.
- 12. Field Measurement for stair fabrication.
- 13. Provide temporary stairs (to meet OSHA requirements) from time of steel erection until permanent stairs are installed complete.
- 14. Subcontractor will only provide benchmarks and control lines including establishing building plumb. CM will review and confirm.
- 15. Subcontractor is responsible for transferring grade to all anchor bolts from benchmark, and adjusting with nuts, washers, etc. to maintain a plumb and level installation.
- 16. Subcontractor is also responsible for maintaining and certifying building 'plumb' prior to placement of elevated concrete slabs, roofing, grouting of base plates, etc.
- 17. Subcontractor shall provide a final "field" survey of completed steel erection to certify that building is plumb and true.
- 18. Coordination of shop drawings and changes to shop drawings for coordination to be included and shall not constitute change orders unless design team is directing to add steel.
- 19. Provide signed shop drawings by a registered and licensed Engineer in State of North Carolina as indicated in Contract Documents.
- 20. Subcontractor shall provide shop drawings indicating member size, camber, location, etc. as well as indicating anchorage details, etc.
- 21. Also indicate all required connections to each different building condition as indicated by the Contract Drawings and manufacturer's recommendations.
- 22. Subcontractor shall clearly identify assumed design loads on the shop drawings, and their appropriate locations, for the Engineer of Record's approval
- 23. Furnish and install 2 rows of cable for fall protection at second floor level. To be removed by others as exterior walls are constructed.
- 24. Tie-ins to existing 2 story building and cafeteria will require close coordination with other subcontractors, multiple mobilizations will be required for the phased demo of existing masonry and the support of the existing block/brick. Mason required to cut grout and install of Lintel and C-Channel detail. Demo subcontractor to remove existing



block and brick after detail approval/inspection. Steel Lintel, channel and bolts to be provided by Steel subcontractor (BP-05A).

25. Loose lintels required for new larger ductwork size openings to be provided by BP-05A and installed by others.
26. 3D model of steel shop drawings to be provided to CM@R for the use in 3D/BIM coordination. Design of Structure has been completed in Revit by EOR and can be used as reference by steel detailer. Model should include all structural steel, bar joists, decking and steel bracing.

C. Subcontractor Specific Requirements:

- The following is a general outline of items specifically included, but not limited to, under this agreement:

- A. Submittals must be uploaded onto WMJ Sharepoint site for review. To gain access to Sharepoint site please contact the Construction Manager within 5 days of receiving the contract. All submittals are expected to be received no later than 20 days of receiving the contract unless discussed and approved by the Construction Manager.
- B. Delivery Requirements: As coordinated by Subcontractor with WMJ on site Superintendent. Subcontractor is responsible to coordinate deliveries with vendors. The construction manager will not provide equipment to unload subcontractor materials. Please keep in mind the school will be in session during normal school hours and all deliveries must be scheduled. NO DELIVERIES WILL BE ACCEPTED BETWEEN THE HOURS OF 7:00AM AND 8:00AM and 2:00 and 3:30PM MONDAY THROUGH FRIDAY (this excludes deliveries on small company pickup trucks and/or small box trucks as approved by project superintendent). Saturday deliveries will be accepted only on the approval of the project Superintendent.
- C. Subcontractor is responsible for scheduling, coordinating, preparing and documenting all testing, inspections, and punch-list with the Owner, Architect, Engineer, Owner's Commissioning Agent, inspection agencies, and required local authority(s) having jurisdiction. All pre-testing and testing requirements needed to achieve temporary and permanent certificate of occupancy and the construction schedule is included.
- D. It is the responsibility of this Subcontractor to anticipate inspection delays in the installation durations and sequence such work ahead of others as not to impose delays in the schedule.
- E. Any and all requirements for mockups for approval of assemblies on this project are fully included.
- F. In addition to the requirements of the specifications, Subcontractor will supply Shop Drawings that include all dimensions, mounting details, and/or pad layout, weight, color, power requirements, ventilation requirements, and all special attachments and mounting details as applicable to their own scope.
- G. This Subcontractor should provide protection for ANY new and existing installations as part of this Project. If protection provided by others is not sufficient to support/protect the work as part of this scope, this Subcontractor shall provide additional protection as may be required to fully protect that equipment or installation.
- H. All damage to paint primers or applied factory finishes damaged during install shall be repaired by this Subcontractor.



- I. Final cleaning of all equipment prior to Final Project Completion including removal of shipping stickers, etc. This shall apply to all existing installations as well as new installations

D. Allowances:

- a. The Subcontractor is to include the following allowances in their base bid amount. These allowances will include all overhead and profit and will be identified on a separate line item in the payment application schedule of values. The Construction Manager is solely responsible for determining what work will be charged against these allowances and all said work must be authorized in writing by the Project Manager or Superintendent prior to commencing. Subcontractor will submit daily work slips for verification and actual costs against this allowance will be reconciled at the completion of the project. Any work performed by Subcontractor that was not previously authorized by the CM will not be reimbursed.

E. Unit Prices

- a. Unit prices quoted and accepted shall apply throughout the duration of the contract and are inclusive of all overhead costs, insurance, bonding and profit. If necessary, Subcontractor agrees to provide labor and/or materials and/or equipment to perform the following work on a unit price basis for the unit prices stated below. Should additional Unit Prices be necessary, these will be agreed upon and included here after the completion of the post-bid scope review meeting

F. Alternates:

- a. The subcontractor is directed to reference the big form for applicable project alternate prices to be included with the Subcontractor's Bid. Alternate Prices shall include all cost associated with the changes, omissions, additions or other adjustments to the work of the Bid Package as described in the alternate, or are reasonably inferable therefrom. Alternate Prices shall include all cost of overhead, profit, and bond premiums associated with the work of the Alternate whether additive or deductive. Claims for extras resulting from changes caused by the acceptance or rejection of any alternate will not be allowed. The Drawings, Specifications, Project Manual, Addendum(s), and other Contract Documents shall be considered appropriately modified by either the acceptance or rejection of the various Alternatives. The Construction Manager and Owner expressly reserve the right to accept or reject any, or all, Alternate Prices and in any sequence. Acceptance or rejection of any alternate does not relieve the Bidder of timely completion of the Work within the time periods indicated.