SECTION 011200-01A – GENERAL SCOPE OF WORK

All work is to be done in accordance with the Contract Documents, including the drawings and the specifications, this scope of work, and all addenda if any. Each trade must comply fully with all sections of the Division 1 general requirements.

This scope is intended as a reference to assist in the bidding process. The Contractor is responsible for all labor, material, tools, equipment, hoisting, storage, layout, incidental work, and associated services necessary to fully complete all of the work described and shown in the Contract Documents. This contractor is responsible to review and include all items in their attached specific scope of work and to also review the work of other trades.

This work includes but is not limited to:

1. All bidders are required to provide 10% bid bond for each bid package submitted.
2. All contractors are required to provide 100% payment and performance bonds for their contract.
3. All contractor employees will be required to sign-in each day on the jobsite.
4. Work hours are 7:00 am to 3:30 pm. All contractors are required to work minimum 5 days per week, 8 hours per day. If day(s) are lost during the work week, all contractors are required to work Saturdays to make up for all lost days at no added cost.
5. Each contractor, upon award, is to forward budget costs for each individual item of work, in s.f. or l.f. costs for accounting only. A list will be forwarded to each sub from Whiting-Turner.
6. Each foreman is required to complete daily field reports and turn them into WT daily. This report states where and what work was performed. Failure to submit reports on a daily basis may delay contractor payment.
7. All deliveries must be scheduled in advance with Whiting-Turner. Major deliveries, those that may impact or disrupt the work of other trades, require seven (7) days notice to WT. Minor deliveries require two (2) days notice to WT. WT shall coordinate storage locations for all deliveries.
8. This contractor will execute an AIA contract with no changes.
9. All contractor employees will meet with the WT Superintendent for a short safety orientation upon starting their work on site. All contractor employees are required to attend this orientation.
10. The foreman and project manager will need to meet with the superintendent for a “pre-start” job meeting.
11. This contractor is responsible for all existing site conditions in existence as of the bid due date. These conditions may not be identified on the drawings or in this scope of work. Examine prior to the bid.
12. All contractors are required to perform all layout required for their work.
13. No gasoline-powered equipment can be used at any time within buildings. All equipment you plan to use must be reviewed with the Superintendent for safety concerns.
14. MSDS must be forwarded prior to starting work. No chemicals can be used at any time without properly reviewing them with WT first.
15. All contractors are required to perform any necessary dewatering in order to complete their work.
16. All subcontractors are responsible for daily cleanup of their debris to the jobsite dumpster. This means that no trash or excess construction materials can be left on site or in buildings at the end of the day.
17. The Construction Manager will supply a dumpster for the work, the contractor is responsible for placing debris in the dumpster.
18. Storage space will be limited. Materials and gang boxes cannot be in the way of other trades, traffic, fire lanes, access, etc. Review location and requirements with WT. Provide storage trailers or off site storage when necessary.
19. Furnish attic stock as required by the drawings, specifications, or the scope of work.

20. Jobsite security and security of materials, equipment, tools, etc. is the responsibility of each contractor.
21. Contractors are required to coordinate with other trades and with Whiting-Turner.
22. Contractors are required to comply with all safety regulations as required by OSHA, State of Delaware, Red Clay Consolidated School District, Whiting-Turner, and as noted in the specifications. Provide all safety devices necessary for your work.
23. All change order pricing must be accompanied by a labor and material breakdown and with subcontractor quotes.
24. Care must be taken to not mark or damage finished surfaces. Contractors will be backcharged or will need to pay for repairs to the work of others. Protect the owner's property.
25. Roof protection must be provided by any contractor working on top of the completed roof systems. Minimum protection required is 2" rigid insulation and ¾" plywood.
26. All safety, barricades, floor opening protection, etc., installed by this contractor or by others is the responsibility of this contractor if moved or damaged by this contractor.
27. Provide all testing, guarantees, warranties, as-built drawings, O&M manuals, commissioning tests, close-out documentation, and start-up services necessary to put all work into first class operating condition per the contract documents including any final cleanup required.
28. As-built drawings must be maintained on the job-site and updated on a daily basis for review by Whiting-Turner. At contract completion, contractor must submit as-built drawings and O&M Manuals as required by specifications.
29. Owner training required by specifications. Training must be videotaped.
30. Where furnishing and installation of work is indicated by separate parties include:
    - Furnishing Party – delivery to jobsite including freight and taxes
    - Installing Party – receiving, unloading, inventory, storage, handling, and installation.
31. Core drilling, cutting & patching as required to perform work. Include restoration of surfaces to original condition if required. Cutting to be performed as to minimize patching.
32. Sealants, caulking, and firestopping integral with work.
33. Permit fees and licenses required for work, other than the building permit, shall be furnished by the contractor whose work requires such permits.
34. General temporary lighting, 120V power & water will be provided. Any contractor requiring temporary services above and beyond those noted shall provide the necessary temporary service required for their work. Refer to specific scopes of work for contractors that will be required to provide all temporary power and lighting for the duration of their work.
35. Each contractor shall provide scaffolding, hoists, lifts, cranes, and other means of access for own work.
36. Premium cost for shutdowns or any other off-hour work. All shutdowns must be scheduled at least two (2) weeks in advance.
37. Phasing and remobilization per the project schedule and as required to properly coordinate and complete the work.
38. Field measurements and verification of existing conditions.
39. Temporary weather and dust protection for own work.
40. Perform any snow removal for access to your work, beyond road areas normally maintained by State.
41. Compliance with local noise restrictions.
42. Temporary sheeting, shoring & bracing as required to perform this work. Engineering calculations/PE certifications if specified.
43. Submittals and mock-ups as specified.
44. Warrantees as specified commencing on date of substantial completion.
45. Insurance as required by specifications. Maintain throughout project. Professional liability insurance for any design/engineering work.
46. All applicable sales, use & excise taxes.

47. Surface preparation and inspection for proper installation of the work. Include clean-up, etching, flash patching, moisture testing, etc. as required per specification and manufacturers instructions. Commencement of work shall constitute acceptance of the substrate as suitable for this work.
48. Sleeves, inserts, and anchors for this work.
49. Additional reinforcement/supports for this work which is not detailed on the architectural and structural drawings.
50. Comply with all Whiting-Turner and Owner Quality Control Program requirements for this work.
51. The contractor must have on site at all times during own work a supervisor or foreman responsible to coordinate the work with all other trades to meet the project schedule, to perform the work to meet the contract documents and to effectively communicate with the construction manager and other trades. The decision of that individual shall be binding upon the contractor.
52. Attendance at foreman meetings by the supervisor or foreman is mandatory.
53. Attendance at progress meetings by your project manager is mandatory. Meetings may be tape recorded.
54. After bids are received, contractors will need to attend a scope review meeting with Whiting-Turner, the Owner, and the Architect.
55. The successful contractor must forward Whiting-Turner a copy of their safety program.
56. During this project, hot work permits will need to be obtained from Whiting-Turner prior to proceeding with any such work on a daily basis.
57. All contractors are responsible for their work as shown on any and all drawings.
58. Each contractor must have a line item on their invoice schedule of values that allows 3% of the total contract amount for close-out documents (as-builts, warranties, operations and maintenance manuals, punchlists, etc.) in addition to 5% retention.
59. Building or site commissioning is to be performed separately from owner training.
60. All subcontractor foremen and project manager are required to remain as such throughout the duration of the project unless otherwise approved by WT and RCCSD.
61. The following documents will be required at project start-up and need to be submitted with-in two weeks of the notice to proceed:
    A. Fully executed Contract.
    B. Copy of State of DE Business License
    C. Insurance Certificate indicating coverage and limits, as specified in Contract Documents.
    D. Permits or permit filing receipts as required by the contract documents, New Castle County, State of Delaware or any other regulatory agencies having jurisdiction. (Building permit is by CM)
    E. Payment Bond and Performance Bond
    F. Emergency Telephone Numbers for project manager and foremen
    G. MSDS Information
    H. Attendance of Onsite Safety Orientation
    I. Copy of Written Safety program and policy
    J. List of all applicable labor rates
    K. Detailed Schedule for the work
    L. Schedule of Values for invoicing
    M. Subcontractor List
    N. Supplier List
62. The following documents (other than submittals) will be required prior to billing for the close-out documents.
    A. Signed-off copy of the punchlist.
    B. Attic stock delivery confirmation (if required by the specifications)
    C. As-built Drawings
    D. Testing Reports and/or Equipment Start-up reports
    E. Operation and Maintenance Manuals

F. Owner Training Sessions & video tapes as specified.
G. Standard Guarantee/Warranty for this Trade Contractor and subcontractors (attached)
H. Specific Warranties from individual suppliers or manufacturers
I. Affidavit that all taxes have been paid
J. AIA Document G706 – Affidavit of Payment of Debts and Claims (Original available from AIA)
K. AIA Document G706A – Affidavit of Release of Liens (Original available from AIA)
    - Complete and attach the 'Trade Contractor's Final Release and Affidavit'
    - Complete and attach the 'Final Waiver and Release for Second Tier subcontractors and suppliers' (1 needed from each subcontractor / supplier utilized.)
L. AIA Document G707, Consent of Surety of Final Payment (Original available from AIA)

END OF SECTION 011200-01A

SECTION 011200-03A – SPECIFIC SCOPE OF WORK – CONCRETE

SPECIFIC SCOPE – CONCRETE:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Include the cost of performance and payment bonds in the base bid.
2. This contractor is required to review all drawings including Structural, Architectural Mechanical, Electrical, Plumbing, Fire Protection, and Food service prior to mobilization to site to identify all items that need to be embedded-in, penetrate, or generally coordinated with concrete work. This contractor will be responsible to cut in items that were overlooked.
3. Daily Cleanup of debris. If this contractor does not clean the site to the satisfaction of Whiting Turner, Whiting Turner reserves the right to clean the site with their own forces at the expense of this contractor. Site must be maintained and cleaned daily.
4. All trucks are required to clean their tires prior to leaving the project site.
5. Furnish and install stone base, expansion joints, sealants, and reinforcement for this work.
6. All concrete forms required for this work.
7. Perform all necessary excavation and backfill associated with the footing work.
8. All excess soil is to be removed from the project site.
9. Provide all formwork necessary for all concrete work including the depressed slabs.
10. All concrete slab pours shall be scheduled by the construction manager. The construction manager shall dictate the size and extent of each individual concrete slab pour based on areas that are available to be poured upon completion of work by other trades (i.e. masonry foundation walls, under-slab plumbing, under-slab electric, etc.). Consideration will be given to attempt to maximize the size and extent of individual concrete slab pours. Assume M/E/P underground work may dictate earlier or later slab pours than indicated on construction schedule.
11. This contractor to layout and install and set in concrete the sleeves for volleyball/badminton nets in the gymnasium.
12. Provide and pay for any engineering and shop drawings for formwork, shoring, shoring removal and reshoring. All engineering and shop drawings must be signed and sealed by a registered engineer in the State of Delaware if required by the specifications.
13. Provide all concrete accessories, including but not limited to: expansion joint fillers, waterstops, concrete inserts, reinforcing steel and mesh, vapor retarder, etc. required to accomplish the work described herein.

14. Provide all cast-in-place concrete associated with the building including but not limited to: footings, piers, slab on deck, slab-on-grade, retaining walls, etc.
15. Provide weather protection, curing measures, and hot and cold concreting procedures including but not limited to, blankets, visqueen, etc. per ACI Standards.
16. The Construction Manager will provide two datum points, one grid line in the north-south direction and one grid line in the east-west direction. Provide all other engineering and layout the work described herein.
17. This contractor is responsible to provide all power required for the work within this contract. No power will be provided. If and when a temporary power source is provided, it will be the responsibility of this contractor to have a backup power source in case the temporary service goes out.
18. This contractor is responsible to furnish and install all rebar that is located in concrete, including all masonry dowels located in footings, and all slab rebar.
19. Any rebar that is shown embedded in footings and extending into masonry, is the responsibility of this contractor. Extend rebar to height shown and provide safety caps.
20. Provide all reinforcing and reinforcing accessories including but not limited to, welded wire mesh, tie wire, splicing requirements, chairs or other approved support methods, etc. Include all fiber reinforcement noted on detail 1/S-501. Welded wire fabric must be properly supported and will be inspected prior to slab pour.
21. Provide column diamond concrete infills at all new columns.
22. Install anchor bolts provided by others. Provide an anchor bolt survey plan prepared by an independent registered surveyor. This must occur within 5 days of completing the footing work. Clean, oil and protect anchor bolts once placed in concrete.
23. Provide grouting of column base / leveling plates. Plates will be provided by the Structural Steel Contractor, 05A.
24. Provide and pay for all lifting and hoisting as required by this contract.
25. Furnish and install all architectural expansion joint systems in concrete work. Refer to spec section 05811.
26. This contractor is responsible for following detail 5 / S-416 for the control joints in the Auditorium.
27. Furnish and install joint fillers between concrete and concrete, concrete and masonry, and concrete and any other dissimilar material. All Fiber expansion joints are to be “zip strip” so that they can be pulled back and caulked. (Joint sealants, i.e. caulk, is by others.)
28. Install all items that are to be embedded in concrete. Install sleeves where required.
29. Slab finish must meet the flatness tolerances that are in the specifications, any areas out of spec will need to be re-worked. If there are flatness discrepancies within the contract documents, the more stringent criteria should be followed and installed. If a discrepancy arises during the project, the concrete contractor is required to hire an independent third party to perform an analysis of the slabs to ensure that they meet the specification.
30. The concrete floor tolerance for the Gym flooring must be 1/8” in 10’. Review specification section 09642 for further detail.
31. Floor slabs are to be properly sloped to floor drains to allow for positive drainage.
32. Maintain, and repair temporary soil erosion and sediment controls, including the stabilized entrance(s), disturbed as a result of the work described herein, including but not limited to repair of temporary seeding, silt fencing, inlet protection, stabilized entrance, etc. Provide for the cleaning of streets and sidewalks if dirtied by the operations described herein.
33. Install all any brick ties located in or to be embedded in concrete.
34. The building pad will be prepared to an elevation of finish floor (81.5’) minus slab thickness, and minus stone sub-base thickness, with a margin of error of +/- 0.2’. The concrete contractor will be responsible for all excavation needed for footing installation, all backfill within the building pad, any additional import to sub grade, fine grading, and haul off site of excess material required to accomplish the work described herein. The concrete contractor will be required to excavate for all depressed slab areas as shown. The concrete contractor will be required to excavate and fill as

required for changes in elevation within the auditorium seating area. The concrete contractor will be required to excavate to finish floor elevation in the mechanical rooms.

35. This contractor will be responsible to remove soils found to be saturated and or unsuitable due to excessive rain if and only if: the building pads are not stoned to sub grade by the required dates and a weather event after the required date damages soil.
36. This contractor is aware that there are overlapping activities in this project schedule and that it will be required to work in more than one area at a time.
37. This contractor is responsible to furnish and install all foundation wall perimeter insulation adjacent to below grade masonry and concrete walls, and also beneath the concrete slab.
38. Furnish and install fall protection including handrail, mid-rail, and toe board at any fall projection hazards created by this work. Including but not limited to: holes, pits, etc.
39. Furnish and install two sets of temporary ramps from the existing grade outside of the building perimeter up to the slab.
40. Create and maintain a wash out area during construction. This contractor is responsible to provide a dumpster for removal of all spoils from the site at the conclusion of concrete work.
41. Provide for all dewatering of the building pad including but not limited to mucking, hoses, pumps, power, sediment control, hoses, fuel, etc. required to accomplish the work described herein.
42. This contractor is required to provide and maintain all material and operations for temporary protection and heat during cold weather installations.
43. Saw-cut interior slabs within 24 hours of concrete pour. Sealants by others.
44. Align sawed or expansion joints with architectural features in the floors where required.
45. Provide all concrete locker bases as detailed (19/S-501). Refer to architectural floor plans for locker locations.
46. Provide structural concrete pads for boilers and chillers only. Assume (2) boiler pads at 14’x5’ each. Assume (2) chiller pads at 13’x6’ each. Pad construction to be per detail 18/S-501.
47. ***Provide structural concrete pads for generator and transformer only. Assume (1) generator pad at 6’x4’, and (1) transformer pad at 6’x6’. Pad construction to be per detail 6/S-501.***
48. Furnish and install the loading dock foundations, concrete walls, slab and associated ramp.
49. Provide concrete column encasement per detail 22/S-501.
50. Upon stripping forms from each pier, thoroughly clean each anchor bolt, coat with grease, cover with plastic, and secure with re-bar caps.
51. Provide ¾” plywood covers w/2x cleats at all column block-outs (“diamonds”) after slab pours. To be removed by the steel contractor.
52. Coordinate column in-fills with floor finishes. At VCT locations, recess top of infill ¼”.
53. Include labor/material required to box-out for all floor sinks, floor troughs, drains, walk-in boxes, etc. prior to slab pours. Fill in at no additional cost during a later pour.
54. Coordinate all depressions/box-outs with shop drawings for associated equipment/systems.
55. Provide all step-footings – coordinate final locations w/MEP contractors. Adjust locations w/MEP contractor at no cost if approved by structural engineer
56. Provide six (6) additional step footings (typical depth), locations to be coordinated by CM.
57. Furnish & install any dowels required from slab-on-grade to exterior walks/pads. Grease as req’d.
58. Install only anchor rods for shear wall stud/post conditions (see 9/S504 for example) in footings. Rods to be provided by others. Layout per structural stud drawings/requirements. Grease exposed threads, wrap in plastic, and protect with impalement protection as directed by CM.
59. Assume kitchen slab to be poured after steel erection as dictated by CM.
60. This contractor to furnish and install protection of concrete steps and risers in auditorium seating area upon completion of concrete steps and risers installation. Protection to consist of 2’x4’ dimensional wood framing and ¾” plywood. Protection to be installed prior to other trades beginning work in this area.

61. Provide vapor barrier, sand bed and insulation below slab at areas of radiant floor heating, per detail 23/S-501. Assume areas with radiant floor heat will be poured after the walls are constructed. Refer to MEP drawings for additional information. – REFER TO ALTERNATE #8 BELOW.

SECTION 011200-04A – SPECIFIC SCOPE OF WORK – MASONRY

SPECIFIC SCOPE – MASONRY:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Include the cost of performance and payment bonds in the base bid.
2. Provide the following masonry items including but not limited to:
   - 2.1. Brick
   - 2.2. Accent brick
   - 2.3. CMU – above grade
   - 2.4. CMU – below grade
   - 2.5. Rebar or anchor bolts embedded in masonry walls
   - 2.6. Bond beams, pre-cast lintels, pre-cast coping/sills
   - 2.7. Grouting of CMU
   - 2.8. Insulation between brick and CMU
   - 2.9. Thru wall flashing at CMU and brick conditions – supply & install
   - 2.10. Install of in-wall portion of 2-piece flashing at roof to wall transitions (supplied by roofer)
   - 2.11. Damproofing as specified
3. All Submittals including but not limited to all mortar mix designs, CMU, brick, and split face samples
4. All CMU grouting as required.
5. All CMU concrete bond beams and lintels as required at architectural wall or door openings and mechanical penetrations. See Drawing S-503. Grout all cmu as shown.
6. Install only all loose steel angle lintels.
7. The CMU walls will be installed as the footings become available and not all at one time. Equipment and material can be stockpiled onsite through the duration of this contract.
8. Include labor and material to clean the footing off before installing cmu work. Assume that they will be covered in mud.
9. All interior CMU walls are to be constructed and grouted tight to the underside of the deck as required by the wall details. Furnish and install the specified firesafing material and lateral supports as indicated at all locations where new masonry work abuts the structure or work by others.
10. Furnish and install all damproofing, waterproofing or parging on CMU walls and foundations as detailed. See Details on the 300 series of Drawings in the Architectural set for parging and wash where CMU meets footing.
11. Furnish and install all interior brick and seal as specified.
12. Meet all fire ratings for masonry walls as called out in the drawings and specifications, the more stringent requirement shall be followed.

13. All scaffolding required to do this work.
14. This contractor is aware that there are overlapping activities in this project schedule and that it will be required to work in more than one area at a time.
15. This contractor is required to review all drawings including Structural, Architectural Mechanical, Electrical, Plumbing, Fire Protection, Theater, and Food service prior to mobilization to site to identify all items that need to be embedded-in, go thru, or generally coordinated with masonry. This contractor will be responsible to cut in items that were overlooked.
16. This contractor is responsible to furnish and install all masonry rebar in walls including but not limited to any rebar that ties a masonry foundation wall to a building slab, rebar within concrete bond beams and all other associated masonry wall rebar. Rebar dowels set in concrete footings will be provided by the concrete contractor. All exposed rebar must be capped.
17. Furnish all brick ties for both metal stud and CMU walls. This contractor will install brick ties in CMU walls but will furnish only brick ties at metal stud walls to be installed by others. This contractor shall assist the brick tie installer with layout and placement
18. Furnish and Install horizontal joint reinforcement where required.
19. Furnish and install architectural joints and/or expansion joint systems in masonry walls as required.
20. Construct the interior or exterior control joints. Control joint sealants are by others.
21. Daily Cleanup of debris. If this contractor does not clean the site to the satisfaction of Whiting Turner, Whiting Turner reserves the right to clean the site with their own forces at the expense of this contractor. Site must be maintained and cleaned daily.
22. This contractor will provide its own dumpster for removal of debris. At no point will a dumpster be provided by the CM for the mason to use. Include the necessary costs in your bid.
23. Maintain and repair temporary soil erosion and sediment controls, including the stabilized entrance(s), disturbed as a result of the work described herein, including but not limited to repair of temporary seeding, silt fencing, inlet protection, stabilized entrance, etc. Provide for the cleaning of streets and sidewalks if dirtied by the operations distributed herein.
24. Clean and protect unit masonry before completion according to the specifications. Install plastic and plywood beneath all work areas to protect mortar from attaching to floor surfaces. Clean all mortar splatter, drippings, etc. from adjacent surfaces.
25. All saw cutting for masonry work is to be wet cut.
26. Do not install any finish masonry that is stained or discolored. It will be the responsibility of this contractor to clean any discolored or stained masonry units after installation.
27. Remove all excess material from site, clean and restore lay down and/or work areas after completion of work.
28. Provide washing down of brick including the protection of adjacent construction. Wash down is to be phased so areas are completed as the work progresses. Wash down is to be completed prior to window installation.
29. This contractor is responsible to cut in overflow scuppers into masonry.
30. This contractor is responsible to furnish and install all mortar nets.
31. This contractor is responsible to grout all HM door frames (Furnished and installed by others)
32. This contractor is responsible to provide a smooth, level grout finish over masonry foundation walls so that drywall track can be attached. Any portion found unsatisfactory by Whiting Turner will need to be refinished by this contractor.
33. Install anchor bolts and bearing plates embedded in masonry.
34. This contractor is responsible to install all required masonry bracing.
35. The Construction Manager will provide two datum points, one grid line in the north-south direction and one grid line in the east-west direction. Provide all other engineering and layout the work described herein. Benchmarks are shown on the drawings
36. Furnish, install, maintain and remove any additional supplemental water, power and lighting needed over and above that which is described therein.
37. Furnish, install, maintain, and remove temporary cold weather protection as required to complete the work within the construction schedule.
38. Furnish, install, maintain and remove temporary heating as required to complete the work within the construction schedule. Provide heat continuous, for the necessary cure without fear of frost or freezing. Provide all associated safety measures.

39. Furnish and install mock-up(s) as required by the specifications. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked.
40. Install steel lintels, shelf angles and continuous 3x3 angle at parapets (typical of detail A2 on A-500) provided by the 05A metals package.
41. Install all anchor bolts as shown on details 8 & 9 on S-504. Anchor bolts will be furnished by Drywall Contractor, 09A.
42. Furnish masonry anchors for connecting to structural frame, installed under Div 05A metals or 09A partition contractor.
43. Furnish and install all weeps, wicks, cavity drains, and vents. Maintain weeps in a clear, clean state during construction.
44. This contractor is responsible to install all flashing at corrugated metal panels to masonry transitions.
45. "Toothing" of masonry as necessary to accommodate other trades or drawing details. Include remobilization to complete this work if necessary.
46. Set in place the metal scupper sleeves provided by the roofing contractor. Coordinate layout with the roofing contractor.
47. Set in place sleeves in the exterior masonry walls for pipe penetrations. Sleeves provided by others.
48. Furnish and install the rigid insulation below thru-wall flashings, refer to detail C1/A-501
49. Furnish and install any special brick shapes.
50. Furnish and install all masonry screening wall on the east side of the Main School Building.
51. Install all masonry walls within the specified tolerances, plumb and straight.
52. This contractor will be responsible for scaffolding the interior of both the Gym and Auditorium for CMU installation. To complete the brick façade for both venues, it will be necessary to scaffold the roof. The Masonry Contractor will be responsible to shore the roof deck as necessary to support the weight of the scaffolding, materials and bricklayers.
53. This contractor is responsible for the bent plate shown in detail 4 / S-504.
54. This contractor to furnish and install all weep holes as specified and as indicated on drawings. Upon completion of wall sections this contractor to remove roping from weep holes and perform water tests in cavity wall construction to ensure water flow through weep holes.
55. Provide all top of wall fire-safing and fire caulking as shown.
56. Provide all acoustical sealants at tops of walls as shown.
57. This contractor to provide layout for all cmu foundation walls and all interior masonry partitions. This contractor to assist hollow metal frame installer with layout of door openings in masonry partitions. Hollow metal frames to be set prior to cmu wall installation.
58. This contractor is responsible to review the mechanical and electrical drawings to account for duct penetrations, pipe penetrations and conduit penetrations through new CMU walls. This contractor shall be responsible to install sleeves for all pipe and conduit penetration. Sleeves shall be furnished by others. This contractor shall be responsible to construct openings for ductwork in CMU walls. Sheet metal contractor will provide layout drawings for duct penetrations in CMU prior to wall installation. This contractor shall furnish and install all concrete lintels at duct penetrations. Sizing of lintels to be as per lintel schedule on drawings.
59. Provide (6) additional step-footing foundation walls (typical size & depth) to be coordinated by CM as needed.
60. Provide building date stone. Installation to occur at project completion.

SECTION 011200-05A – SPECIFIC SCOPE OF WORK – STEEL

SPECIFIC SCOPE – STEEL:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Include the costs for 100% performance and payment bonds in the base bid.
2. This contractor is required to review all drawings including Structural, Architectural, Mechanical, Electrical, Plumbing, Fire Protection, Food Service, and Theater prior to mobilization to site to identify all items that need to be embedded-in, penetrate, or generally coordinated with structural steel.
3. Furnish and install all structural steel including, but not limited to: columns, beams, steel plates, steel decking, shear studs, shim packs, double angle slip connections, moment connections, bolted connections, shear connections, clip angles, continuous slab edge angles, distribution angles, tube steel framing members, long angle, bent plates, stiffener plates, miscellaneous angles, hot-rolled shapes, pipe, nuts, bolts, washers, welding electrodes, galvanizing, primer paint, masonry anchor ties, etc.
4. This contractor is aware that they must take whatever means necessary to meet the project schedule including but not limited to overtime hours, increased manpower, shift work, etc., at no cost to the owner.
5. Perform all work in accordance with OSHA and WT requirements.
6. Shop prime all materials as indicated. It is the responsibility of this contractor to ensure that structural steel, decking and all other materials supplied under this scope is compatible with specified finish (i.e. – Sprayed fireproofing, concrete slab, special coatings, etc.).
7. In the field, provide field touch up of finishes provided under this contract.
8. Scope includes delivery of all materials to the jobsite. Coordinate with the Construction Manager for phasing and staging.
9. Furnish anchors and shim packs.
10. The Contractor shall be responsible for all shop drawings. Field measurements and associated surveying shall be the responsibility of this contract. The CM will supply control points. This contractor shall submit steel stair shop drawings so that they may be installed directly upon the erection of the structure
11. Supply five (5) full sets of preliminary erection drawings to the CM upon initial submission of shop drawings.
12. Install and provide all pour stops, angles, etc., as needed to perform slab pours. Install any temporary deck closures that may be necessary where the CMU walls are not yet constructed such as at elevator or stair shafts, etc. This contractor shall furnish and install continuous pour stop around the entire perimeter of all elevated concrete slabs, whether indicated or not.

13. Provide framing for all roof and mechanical openings. Coordinate with mechanical and electrical drawings
14. Provide two (2) Type 1A, Extra Heavy Duty Industrial 32" fiberglass extendable ladders. These ladders become the property of the CM/Owner at the end of the project.
15. Provide anchor bolts and anchor bolt layout. Installation of bolts is by the Concrete contractor.
16. Furnish, along with layout drawings, all embedded weld plates.
17. Furnish all anchor bolts in grouted masonry, typical of details 6, 7, 8 on S-417.
18. Provide equipment, power, and fuel for welding.
19. Provide welding screens to protect other workers from welding operations.
20. Any masonry anchor tie-off points that are shown on the steel are to be furnished and installed by the steel contractor.
21. Furnish and Install all bridging
22. Furnish and install all roof decking, including all acoustic decking. Insulation for the acoustic decking must be integral!
23. Provide all cross bracing typical of detail 1/S-502
24. Furnish and install all metal ladders and ships ladders with required anchors and fasteners.
25. Provide and install industrial roof stairs and spiral staircase. All components of the spiral staircase are to be included in this package including, but not limited to, handrails and pickets.
26. Provide all handrails, interior and exterior, including ornamental handrails with all required woven wire balustrade panels, sleeves, anchors and fasteners required. Prime handrails as specified. All exterior applications are to be galvanized.
27. Interior handrails receiving wood railing tops (typical of the Auditorium) are to be coordinated with the Casework & Millwork Contractor 06B for a smooth and continuous installation.
28. Provide drawings indicating all required in-wall blocking locations. These drawings will need to be submitted prior to wall framing on site. If drawings are not provided, any layout errors will be the responsibility of this contractor.
29. Furnish and install all catwalk steel, caged ladder, supports, fixed and removable rails, hangers, handrails, bracing, steel flooring, stairs, channels and all other steel related to the complete installation of the auditorium catwalk system. Information regarding the auditorium catwalk is located on the structural AND architectural drawings. This contractor is responsible for reviewing all drawings.
30. Furnish and install all temporary diagonal joist bridging at catwalk. Remove once roof deck and catwalk framing is completely installed.
31. Furnish and install all rigging beams and bracing above the stage and Auditorium for the Theater Rigging.
32. Provide a lintel schedule and corresponding piece marks on lintels when they are delivered to the site. Lintel shop drawings are to be submitted to the CM no later than 14 calendar days after 'Notice to Proceed'.
33. Furnish and install all equipment support steel. Refer to detail 9 on S-502.
34. Furnish and install all duct support assemblies on the roof as detailed. Refer to note 13/S-111. Coordinate with the mechanical contractor for final layout.
35. For all items embedded in other work such as masonry or concrete, this contractor will furnish the embeds with layout drawings. Either the masonry or concrete contractor will perform the installation.
36. Provide all required galvanizing, for all materials furnished and/or installed.
37. Grind welds smooth, remove grease, and leave surface ready for painting, for all materials furnished and/or installed.
38. All items to be set in concrete to have holes for attachment to formwork.
39. Provide gripstay channel and anchor as detailed on 1/S-405
40. Furnish and install all angle clips at the bottom and top of joists for attachment to masonry wall. These angles will be welded to the bar joists and bolted to the masonry wall after the wall is completed.
41. ***Furnish and install steel framing for all mechanical equipment enclosures including, but not limited to, all steel posts, steel tubing, angles, ~~screens~~, gates, supports, fasteners, etc. to provide a complete installation. All steel components to be galvanized. Architectural roof screen panels are to be furnished and installed by others. This contractor shall be***

responsible for the structural framing elements only. Structural framing and dimensions to be coordinated with roof screen panel shop drawings.

42. This contractor is responsible to install all steel angles.
43. Perform all expansion bolting of steel members in to CMU walls.
44. This contractor is responsible for providing all lateral support for the masonry walls, typical of detail 13 on S-502.
45. Provide all miscellaneous or loose steel angles as called out on contract documents.
46. Furnish, install, and bolt the channels into the tops of the partition walls as in 1/S-402. This will have to occur after the walls are built.
47. Furnish and install all miscellaneous steel or metal items, including, but not necessarily limited to the following items:
    a) Head supports at interior aluminum wall systems
    b) Handrails
    c) Spiral Staircase(s)
    d) Provide and install support framing for the gym equipment and gym divider. This contract is responsible for drilling the mounting holes per the equipment shop drawings.
    e) Furnish and install all steel plates and bent angles shown in contract documents.
    f) Support for Overhead Coiling grilles or other doors
    g) Furnish and install all steel frames as required for Rooftop equipment and roof penetrations. Include joist reinforcement as detailed.
48. Furnish the following items for installation by others.
49. Furnish all loose steel angle lintels (galvanize as required) for installation by others.
50. Furnish all brick shelf angles and continuous 3x3 angles at CMU parapets (typical of A2 / A-500) for install by the Masonry Contractor, 04A. The Steel & Metals Contractor shall furnish all required fasteners in addition to the brick shelf angles and continuous 3x3 angles at CMU parapets.
51. Install only, any masonry anchors (supplied by the Masonry Contractor, 04A) for connecting to the structural frame constructed by this contractor. Anchors connected to structural studs are by others (09A).
52. Include the required mobilizations for the structural and miscellaneous work.
53. Provide installation equipment of sufficient size and quantity to coordinate to the overall needs of the project and the project schedule.
54. This contractor is responsible to provide all power required for the work within this contract. No power will be provided. If and when a temporary power source is provided, it will be the responsibility of this contractor to have a backup power source in case the temporary service goes out. Temporary power will only consist of 110V service. If a larger service is necessary, it will be the responsibility of this contractor.
55. If required by the specifications, provide submittals that are prepared under this supervision and sealed by a professional engineer registered in the State of Delaware.
56. This contractor owns all C-channels on top of continuous tube steel, i.e detail 1 / S-402. The Steel and Metals Contractor shall furnish AND install all C-channels indicated on top of the continuous tube steel along. Reference detail 1/S-402, 2/S-402, 4/S-402 and all similar occurrences. This contractor shall also coordinate the installation of the required channels with the 09A – Metal Stud Contractor.
57. The Structural Steel Contractor, 05A is responsible to supply ALL lintels unless made of cold-formed metal.
58. The Structural Steel Contractor, 05A shall install all lintels that connect to structural steel. This includes all lintels that connect to structural steel on one end and structural stud or masonry on the opposite end.
59. This contractor shall furnish and install all WF lintels that bear on masonry.
60. The Stud & Drywall Contractor, 09A owns installation of all lintels that connect to cold-formed stud system (supplied by 05A).
61. The Stud & Drywall Contractor owns all headers typical of details 3 & 4 / S-402. The Stud and Drywall Contractor, 09A shall coordinate and install all beam headers as supplied by the Steel and Metals Contractor, 05A, typical of details 3/S-402 and 4/S-402. The Channel indicated above the beam header shall be furnished and installed as referenced in narrative item #56.
62. The Structural Steel Contractor is responsible for the deck reinforcing shown on detail 3 / S-502. The Steel & Metals Contractor, 05A shall furnish and install all deck reinforcing as indicated on detail 3/S-

502, typical of ALL roof drains and overflow drains in the metal deck. Reference to drawing A-106 for roof drain and overflow drain locations.

63. This contractor is responsible for the Nelson Deformed Bar Anchors shown on detail 5 / S-401.
64. This contractor shall base their bid on installing all rooftop unit support steel after the rooftop unit curbs are installed, and/or after metal roof deck is installed.
65. Provide shop drawings for structural steel, steel joists and steel deck in (3) phases as required by CM for scheduling purposes at no additional cost. Include separate fabrication times, deliveries, etc. in base bid.
66. This contractor shall provide all steel elements shown in the following architectural details:
    a. A2/A500
    b. B4/A500
    c. B3/A500 (steel tube NOT included)
    d. C6/A500
67. Provide shop drawings per the following schedule. Durations listed are to be from date of Notice to Proceed:
    a. Anchor bolt layout drawings – 4 weeks
    b. Erection/fabrication drawings – 6 weeks
    c. Joist & deck drawings – 6 weeks
68. Provide fabrication & delivery of following material per the following schedule. Durations listed are to be from date of approved shop drawings:
    a. Structural steel Area 1 – 6 weeks
    b. Structural steel Area 2 – 4 weeks
    c. Structural steel Area 3 – 4 weeks
    d. Joists/Deck Area 1 – 6 weeks
    e. Joists/Deck Area 2 – 6 weeks
    f. Joists/Deck Area 3 – 6 weeks

SECTION 011200-06A – SPECIFIC SCOPE OF WORK – CARPENTRY

SPECIFIC SCOPE – CARPENTRY:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Furnish and install mock-up(s) as required by the specifications. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work. An exterior wall mock-up will be needed, review specifications for all mock-ups required.
2. Furnish and install all Roof Blocking including but not limited to all top and bottom of the parapet, roof edge, and rooftop equipment curb blocking for all AHU's, fans, condensers, etc. Include wood blocking necessary to make the mechanical equipment level. (The roof steel is sloped.)
3. Furnish and install any blocking necessary for all roof accessories such as ladders, skylights and roof hatches.
4. This contractor is responsible for all fall protection and safety requirements associated with the roof work. When working from either lifts & harnesses, or tie-offs provided by this contractor, OSHA standards must be met and followed at all times.
5. Furnish and install all interior and exterior plywood sheathing as shown.
6. All exterior wood blocking (roof edge blocking, roof curb blocking) is to be fire-treated, pressure treated lumber as per the specifications.
7. Furnish and install all wood nailers above door jambs. This contractor is responsible for all window and aluminum storefront blocking also.
8. All in-wall blocking is by the Drywall Contractor, 09A.
9. Furnish and install all wood blocking and plywood associated with the parapet walls and fascias, etc.
10. Furnish and install all fire rated plywood at the telephone and equipment backer boards as required. This work may be shown on the Mechanical / Electrical / Plumbing drawings.
11. Furnish and Install all hollow metal doors & frames, wood frames, wood doors, and all door hardware for the hollow metal and wood doors. Install louvers or grates in doors or in frames. Furnish and install any necessary anchoring devices. Installation of wood blocking in drywall wall as necessary to support door hardware must be coordinated with the Drywall Contractor, 09A.
12. Furnish all hardware for storefront door systems.
13. Furnish and install all hollow metal borrow lites and vision panels assemblies per the door schedule, the details, and the notes.
14. Furnish and install a complete stage wood flooring system, including, but not limited to, resilient pads, insulation, sealant, stains, molding, mounts, sleepers, plywood, felt, and masonite. This contractor is responsible for coordinating the floor transition to the stage apron with the Casework & Millwork Contractor,

06B that will be installed after the floor installation. The floor will be installed first and the nosing and apron will be last.

15. Provide all cement fiber decking. (Refer to A1, A4, A6 / A305)
16. For the installation of the doorframes, anchor and set them in place, plumb and level. Then the mason or partition contractor will build their walls to the doorframe. Coordinate this work with the other trades. This contractor shall assist the drywall and masonry contractors with door frame layout in partitions. The 06A carpentry contractor is responsible to verify that the frames have not been disturbed by the wall construction. Allow time to re-check the doorframes after the wall contractor. Realign frames as necessary. Leave spreaders in place until removal is approved. Remove spreaders in such a way as to create no damage and lave a clean, finished product. Verify that air and surface temperature, moisture, & humidity conditions are suitable for installation of the work in this bid package.
17. Furnish and install all sealants integral to the work associated with this bid package.
18. Assist the Masonry and Partition Contractors' layout of all recessed items provided in this bid package.
19. Furnish attic stock per specifications.
20. A temporary power source will be provided, but it will be the responsibility of this contractor to have a backup power source in case the temporary service goes out. Temporary power will only consist of 110V service. If a larger service is necessary, it will be the responsibility of this contractor.
21. Provide in the Carpentry base bid proposal the cost to furnish, install and remove floor protection at all ceramic flooring systems, after the work is complete and the floors are completely cured. The protection is to consist of sweeping and vacuuming the floor, one layer 6 mil poly with all joints taped with duct tape, and one layer of ¼" hardboard / masonite cut and fitted to the general shape of each room with the joints sealed with duct tape.
22. Provide in the Carpentry base bid proposal the cost to furnish, install and remove floor protection for gym flooring system after work is complete and floors are cured. The protection is to consist of one layer of 6 mil poly to cover the entire surface, and ¼" hardboard or masonite equal to 50% of floor square footage. Hardboard will be laid in a walkway pattern coordinated by WT.
23. Furnish and install sound control rooms as described in section 13081. Quantity as indicated on drawings.
24. All insulated overhead doors, hoods, jambs, door operators and accessories required to install a complete, operational system. This includes all sills, weatherseals, push/pull handles, lock cylinders, brackets smoke seals, counterbalancing systems and all other necessary parts
25. Electric door operator assemblies consisting of electric motors, pre-wired motor controls, control devices, starters and all other accessories required for proper operation. Power to the operators will be by others.
26. Furnish and Install all angles as shown on drawing A604 – J-14, J-15, J-16, S-14, S-15, S-16.
27. Furnish and install motorized open curtain grille(s) located in the Servery area. This includes all hood enclosures, framing, bolting, anchoring, locks, cylinders, hardware and electric door operator assemblies with key control switches. Power to motor will be by others.
28. All necessary attachments to existing structures
29. Assist the electrical contractor in the wiring of all electronic operators. Provide detailed wiring diagrams and onsite support as necessary. Commission the operation of the doors to verify that they are working according to the manufacturer's specifications.
30. All hollow metal doors are to be factory primed and finished.
31. A temporary power source will be provided, but it will be the responsibility of this contractor to have a backup power source in case the temporary service goes out. Temporary power will only consist of 110V service. If a larger service is necessary, it will be the responsibility of this contractor.
32. Provide all new acoustical doors, frames, and hardware as specified. (See spec section 08341)
33. Provide all new key cabinets with key-holding hooks, labels key tags, envelopes, etc. As specified.
34. Include in this bid package any labor and material necessary to prepare the frames and doors to receive all hardware as listed in the hardware specification sets and in the door schedule notes. (Installation of hardware by others).
35. ***Provide Protection of interior finished wood doors upon installation. Protection to consist of cardboard on both faces adhered with non-marking tape. Provide labor and material to replace all protection one time upon CM direction (Per Addendum #4)***
36. Provide 1 gallon of factory stain or sealers for field touch-up by the painter.
37. Doors and frames should be fully prepped to receive new hardware, glass, and security devices.
38. Provide field measuring, shop drawings, hardware schedule, labels on doors, labels on hardware, etc. Properly label all finish hardware by set number and number all doors to align with the corresponding door number on the contract drawings.

39. Coordinate fabrication of doors and frames with preparations for all finish hardware and openings.
40. Furnish installation instructions for proper installation of all materials and products. Furnish all applicable product data.
41. Provide fire ratings per contract documents and provide UL labels on all rated components
42. Provide raceways within doors/ frames for wiring to electrical hardware.
43. Furnish louvers or grilles mounted in doors & frames.
44. Furnish clips, temporary space bars, angles, fasteners and special tools as required for installation and maintenance.
45. Provide temporary construction cylinders/cores for all new door hardware.
46. Furnish permanent cylinders/cores keyed to owner requirements for all new doors including aluminum storefront doors supplied by others.
47. Provide twenty-five (25) construction cores to be used at Whiting-Turner's discretion.
48. Fill out the manufacturer / installer listing in the specifications.
49. Furnish and Install all loading dock equipment, including but not limiting to: Dock Bumbers,
50. Furnish and Set in place – all Residential appliances.
51. Coordinate with electrical contractor to insure that provisions are compatible with electrically operated hardware components.
52. Provide all miscellaneous specialties listed in division 10 and division 11.

SECTION 011200-07A – SPECIFIC SCOPE OF WORK – ROOFING

SPECIFIC SCOPE – ROOFING:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Include the cost of payment and performance bonds in the base bid.
2. This Contractor is required to review all drawings including Structural, Architectural Mechanical, Electrical, Plumbing, Fire Protection, and Food service prior to mobilization to site to identify all items that need to be embedded-in, go thru, or generally coordinated with roofing.
3. Furnish and install, complete, entire roofing system, including all accessories, but not limited to: insulation, cover board, flashing, termination bars, battens, misc. fasteners, copings, gravel stops, walkpads, etc. The system is to be installed to meet the requirements of the Contract Documents and/or a manufacturer details whichever is more stringent. Assume all steel for roof top equipment screens shall be installed prior to this work.
4. This Contractor is responsible for all fall protection and safety requirements associated with the roof work. When working from either lifts & harnesses, or tie-offs provided by this Contractor, OSHA and Whiting-Turner standards must be met and followed at all times.
5. This Contractor to provide all roofing cant strips – including wood cant strips and any necessary brackets or installation hardware. Other roof blocking shown on the contract drawings is included in the Rough Carpentry Package (06A).
6. Furnish and install all flat and tapered insulation.
7. Furnish and install all metal fascias, including aluminum fascia.
8. Furnish and install the Thermoplastic Membrane roof system complete. Obtain manufacturer's warranty.
9. Furnish and install metal drip edges, including those located at the corrugated metal siding on the roof.
10. Furnish and install pipe enclosure details including all flashing, sealants, fasteners, sheet metal enclosures, etc.
11. Flash, seal, etc all steel / mechanical / plumbing / electrical penetrations in the roof. Provide boots and pitch pockets as necessary for the penetrations.
12. Furnish and install the roof expansion joint systems including, but not limited to, angles, plates, tension bars, flashing, caps, fasteners, etc.
13. Furnish and install all gutters, downspouts, and scuppers, complete (downspout boots by others). ***This Contractor is responsible for the scupper and spout as shown on details A4 and A5 on A-500.***
14. Furnish and install all required splash blocks.

15. Furnish and install all sealants, mastics and splicing cement, associated with the work installed herein.
16. Provide all sealants, caulking, etc. between the roof system and all adjacent building materials. Install as per manufacturers specifications and directions.
17. Provide all required inspections and warranties.
18. Furnish and install all flashing, both metal and membrane, associated with the roof installation. This will include, but not limited to, parapet coping and flashing, reglets, roof edge, counter-flashing (including those on curbs provided by others), gravel stops, etc. This Contractor required to perform all required caulking of copings and flashings where called out in the Contract Documents.
19. The thru-wall, single piece flashings, such as at the base of walls or windows, is the responsibility of the Masonry Contractor to furnish and install. Two piece flashings located at locations such as roof to wall transitions will be furnished and delivered to the mason by this Contractor for installation. This Contractor is responsible to furnish and install the 2nd piece. At metal panels, the flashing is generally installed on the wall surface. This Contractor is to furnish and install the flashing and counter flashing at all of the metal panels.
20. Furnish and install mock-up(s) as required by the Contract Documents. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work. An exterior wall mock-up will be needed; review Contract Documents for all mock-ups required.
21. Coordinate with all architectural, mechanical and electrical drawings and related Contractors to determine the amount of roof penetrations and provide proper flashing. This includes all screen support penetrations.
22. Coordinate with the electrical Contractor for the installation of the lightning protection system (See electrical drawings). Seal all penetrations associated with this system.
23. Furnish and install any required vapor barriers as required within the roof system.
24. Furnish and install roof hatches and smoke/fire vents.
25. Furnish and install all skylights as shown. Include all flashings and sealants required for water tight installation.
26. Furnish and install all required roof treads and walkway pads, including any required ‘slip sheeting’ or other type of wear pad between the roof and roof treads, per manufacturers’ requirements.
27. Prepare all required materials and attend the required Pre-installation conference, as per the Contract Documents.
28. Furnish and install complete all required pre-molded pipe seals.
29. Furnish and install all required pitch pockets at roof penetrations.
30. This Contractor shall provide, complete, the entire prefinished wall/roof coping, with associated trim.
31. Field verify steel framing, curbs, and other conditions effecting this work and notify WT of any conflicts at least 2 weeks prior to the start of this work. Commencement of this work will constitute acceptance of the condition by this Contractor.
32. Water test the roof system as required by the Contract Documents and manufacturer’s requirements.
33. Insure that material and equipment loading do not exceed allowable capacity. Verify limits with WT and the Contract Documents.
34. This Contractor is responsible to protect all work in progress from rain or moisture on a daily basis. This Contractor is responsible to provide daily roof cleanup to provided dumpsters. Pay close attention to roofing screws. This Contractor will be responsible to repair any roof leaks at no cost to the owner if there is found to be loose roofing materials laying on the roof.
35. Assume at least 5 mobilizations total for this project.
36. Parapets may not be complete at time of roofing installation. This Contractor is required to lap roofing over any incomplete parapets and edges until construction is complete. Once the parapets and edges are constructed, the Roofing Contractor must finish the roof installation.
37. Provide all warranties as per the specification.
38. Provide all design, engineering, and certifications as required for this work.

SECTION 011200-07B – SPECIFIC SCOPE OF WORK – CAULKING

SPECIFIC SCOPE – CAULKING:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
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NARRATIVE:

1. Furnish and install caulking or sealants at the following locations, both interior and exterior when applicable:
    A. Door frames, exterior, to adjoining material.
    B. Overhead coiling doors, exterior, to adjoining material
    C. Plumbing fixtures to adjoining material
    D. Bathroom accessories to adjoining material (only if shown on drawings)
    E. Windows / Aluminum to masonry
    F. Windows / Aluminum to interior finish (drywall / masonry / etc.)
    G. Interior / exterior masonry to masonry
    H. Masonry to concrete
    I. Metal panel (including corrugated metal panel) to masonry or adjoining material
    J. Wall construction joints, interior or exterior
    K. Louvers
    L. Casework and trim to adjoining materials
    M. In general, all sealants between dissimilar materials unless noted below.
    N. In general, all exterior sealants unless noted below.
    O. In general, all interior sealants unless noted below.
2. The following sealants are furnished and installed by others:
    A. Window to window
    B. Aluminum to aluminum
    C. Internal to the roofing system
    D. Metal panel to metal panel
    E. Kitchen equipment
    F. Fire and acoustical sealants associated with the partitions
    G. Fire caulking at mechanical and electrical penetrations.
3. Furnish and install mock-up(s) as required by the Contract Documents. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work.
4. Provide daily clean up of the debris to the dumpster as a result of the work described herein.
5. Provide warranty for this work per the Contract Documents.

6. All backer rods or other embeds associated with this work.
7. Submit shop drawings, instructions, certificates, and reports for all joint systems as specified.
8. Furnish and install all fill materials necessary to complete work. Materials include but are not limited to firestop devices, sealants, composite sheets, putties, wrap strips, mortars, pillows/bags, and silicone foams.

SECTION 011200-07C – SPECIFIC SCOPE OF WORK – METAL PANELS

SPECIFIC SCOPE – METAL PANELS:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Shop drawings/submittals are to include design data for specified wind loads, indicate required structural support locations/gages/thicknesses, etc. as required by the Contract Documents. This Contractor is to verify structure is adequate and installed properly for this work well in advance of the start of installation of this work.
2. Furnish and install mock-up(s) as required by the Contract Documents, including but necessarily limited to all associated panels, trim, hardware and accessories. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work.
3. Furnish, install, maintain and remove all temporary roof protection during the course of this work. Any damage to the roof caused by this Contractor will be the responsibility of this Contractor to repair or replace. If it cannot be determined that this Contractor caused the damage, all Contractors working in the area will split the responsibility of the repairs or replacement costs.
4. Furnish and install complete all aluminum/metal/composite panel systems, aluminum/metal/composite canopies, projected window roof overhangs and fascias, pre-finished corrugated metal panel systems, corrugated metal panel mechanical screens, fascias and accessories as required. ***This Contractor is responsible for the prefinished aluminum roofing panels as noted in detail B1 on A-501.***
5. This Contractor is responsible for field verification of dimensions at all aluminum panel and metal siding locations. Opening sizes will need to be coordinated closely with the Masonry and Drywall partitions Contractor. If necessary, this Contractor will be required to provide the necessary layout and rough opening dimensions prior to work starting by the other trades. These Contractors will build the openings based on “hold-to” dimensions provided by the metal panel and siding systems Contractor.
6. This Contractor is responsible to install all flashing at corrugated metal panel and aluminum systems to masonry transitions ***including all flashing between ACM panel system to ACM panel system as shown in details A1, A4, and A5 on drawing A-314, typical.***
7. Furnish and install any necessary steel angles or clips required to attach the panel or siding systems to the building steel.

8. This Contractor is responsible for all caulking or sealants integral to the aluminum/metal/composite panel or siding systems. Caulking to adjacent dissimilar materials (ie aluminum to masonry) is by others.
9. Provide all pre-finished aluminum materials as specified. Any field cutting that may be required must be sealed and/or painted the same day.
10. Furnish and install all aluminum drip edges as indicated.
11. Furnish and install the aluminum finish trim for all systems furnished under this package.
12. Furnish and install all shims, brackets, angles, fasteners, and clips, associated with the above systems to provide a complete and uniform installation of all units. Refer to drawing details.
13. Provide all air and water testing as required by the Contract Documents.
14. Provide and pay for all hoisting, rigging, scaffolding, shoring, equipment, etc. required to accomplish the work described herein.
15. Furnish all adjusting, plumbing or shimming as required after roof is loaded with roof top units and steel and concrete work is complete. Check and adjust plumbness of panels to within required tolerances as specified in the Contract Documents.
16. This Contractor is responsible for all storage of materials while on site. Materials must be stored in a dry container and be protected from excessive heat, cold, direct sunlight, surface contamination, corrosion, construction traffic and any moisture.

SECTION 011200-07D – SPECIFIC SCOPE OF WORK – SPRAY FOAM INSULATION

SPECIFIC SCOPE – SPRAY FOAM INSULATION:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
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Volume 4: Divisions 26 – 33

NARRATIVE:

1. Include the cost of payment and performance bonds in the base bid.
2. Provide all design, engineering, and certifications as required for this work.
3. Furnish and install primer on all surfaces to receive air/vapor barrier system as specified prior to installation.
4. Furnish and install a complete air/vapor barrier system to perform a continuous air/vapor barrier including but not limited to spray foam air barrier system, sheet rubberized asphalt barrier, liquid applied air/vapor barrier, membrane wall flashing, jamb closure membrane, cap sheet/expansion joint flashing, primer, mastic, transition strips, sealants and related accessories as indicated on the Contract Documents.
5. Install sheet membrane air barrier perimeter seal to all building openings including but not limited to windows, doors, storefront, louvers, etc. Coordinate this work with other trades.
6. All penetrations of the air barrier and paths of air infiltration/exfiltration shall be made airtight as recommended by the manufacturer.
7. Furnish and install all flashings and transition materials across all dissimilar materials, expansion/control joints, etc. as required for this work. Include compressible material as necessary to ensure proper substrate and support for this work.
8. Furnish and install mock-up(s) as required by the Contract Documents. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work. Additional inspections will be performed as specified in the Contract Documents. Test mock-up(s) for air and water infiltration as specified. Submittals to be submitted within three (3) weeks of contract award.
9. Provide all specified joint, special warranties and inspections required for this work.
10. Prepare all required materials and attend the required Pre-installation conference, as required by the Contract Documents.
11. This Contractor is responsible for all storage of materials while on site. Materials must be stored in a dry container and be protected from excessive heat, cold, direct sunlight, surface contamination, corrosion, construction traffic and any moisture.
12. Contractor must follow all installation procedures as outlined by the manufacturer and the Contract Documents.

13. Furnish, install, maintain and remove any fans, ducting, block off panels/sheets, etc required to adequately ventilate enclosed areas and prevent unacceptable levels of vapors (as defined by OSHA) to other workers and trades.
14. Perform inspections on all substrates to receive this work. Coordinate with other trades to ensure their scope of work is complete prior to the start of this work. Follow all procedures as specified in the Contract Documents for notification of non-conforming work/substrates well in advance of the start of this work.
15. Furnish, install, maintain and remove protection of all surfaces not receiving insulation. Be careful around and protect all flashings that have been installed prior to this work. Protection from splatter, dripping, spillage, overspray, etc. generated from this work. If overspray occurs this Contractor will be responsible for cleaning materials using agents per manufacturer recommendations to original condition or replacement if necessary.
16. Include onsite supervision of manufacturer representation as required to perform this work.
17. Include supervision and/or manufacturer supervision to observe work by other trades after this work included in this scope including but not limited to masonry, stone, windows and other glazing systems, carpentry, miscellaneous metals and roofing, etc. to ensure that work following this work is done in a manner to not damage this Contractor's work or jeopardize the warranty of this work. Report any non-conforming work to WT well in advance to allow ample time for corrective measures.
18. Assist WT in developing a customized quality control checklist on each air/vapor barrier system and insulation system included in this scope to ensure every element is installed per manufacturer's recommendation and meets the Contract Documents. Include a walk-through quality control inspection procedure of each system for the WT jobsite team. Assist WT in creating checklists and sign-off procedures to be coordinated with other scopes of work.
19. Includes costs for ABAA inspections as required. Provide all reports documenting results of inspections, etc. Notify WT of non-conforming work.
20. This Contractor shall pay special attention to the specified tolerances. This work must be completed within these tolerances and cannot impact trades that follow this work. Work that does not conform to the tolerances shall be corrected at this Contractor's cost.
21. Assist WT in developing a cold weather installation program and checklist for installation of items included in this scope constrained by cold weather conditions. Also, include the same for any other weather conditions affecting the quality of this work (ex.: rain, etc.).
22. This Contractor shall coordinate with the waterproofing contractor to ensure that work in this scope is compatible with work in their scope and that a continuous air/vapor barrier system is established without gaps, etc. Coordinate with final grading plans. This Contractor shall do the same with the roofing contractor and their scope.
23. Coordinate with WT and the mason to develop a procedure to tie-in patches to the air vapor barrier system at penetrations required for scaffolding supports, etc. Sequence this work in a fashion that allows proper patchwork to take place and is approved by the manufacturer. Include all costs for multiple mobilizations to come back after scaffolding is removed to patch penetrations.
24. Furnish all required certifications, registrations and licenses as required by the Contract Documents. (ABAA, NECA, etc.).
25. Furnish, install, maintain and remove protection of this work until properly cured as required by the Contract Documents.
26. Clean, prepare, and treat substrates according to the manufacturer's written instructions. Provide clean, dust-free and dry substrates for this work.
27. This contractor is responsible for all fall protection and safety requirements associated with the spray foam work. When working from either lifts & harnesses, or tie-offs provided by this contractor, OSHA and Whiting-Turner standards must be met and followed at all times.
28. All lifting, hoisting, cranes, etc. for this work to be provided by this Contractor. This Contractor shall coordinate with the mason for use of its scaffolding and participate in any training and/or sign any liability waivers required to obtain access to the scaffolding. When mason scaffold is not available or when work under this scope occurs in the areas the mason's scaffold does not access, this Contractor will be responsible for providing its own scaffolding or swing stage system to perform this work.
29. Provide maintenance of traffic and pedestrian protection as required for this work.

30. Ensure that work under this scope is not exposed to the elements in a manner or for a timeframe that is not acceptable under the Contract Documents or to the manufacturer. Notify WT well in advance if a certain area or portion of this scope is in jeopardy of being exposed to a level that exceeds the manufacturer's recommendation in order to not negatively impact the project schedule.
    This contractor is responsible to provide daily cleanup to provided dumpsters

SECTION 011200-08A – SPECIFIC SCOPE OF WORK – GLASS & ALUMINUM

SPECIFIC SCOPE – GLASS & ALUMINUM:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Furnish and install mock-up(s) as required by the Contract Documents, including but necessarily limited to all associated glazing, trim, hardware and accessories. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work.
2. Furnish and install complete all aluminum storefront systems ***(including front set curtain wall type systems)***, windows, integral aluminum/metal panel systems for doors/storefronts/windows, aluminum doors or other aluminum products, including, all interior aluminum frame window units, ***louvers***, window trim, ***break metal***, hardware, shims, fasteners, clips and accessories as required for a complete installation.
3. All aluminum windows and doors are to be furnished with glazing as specified within the Contract Documents.
4. Furnish and install screens on all operable windows as detailed on the Contract Documents.
5. Window opening sizes will need to be coordinated closely with the Masonry and Drywall Partitions Contractors. This Contractor will be required to provide the necessary layout and rough opening dimensions prior to work starting by the other trades. These Contractors will build the openings based on “hold-to” dimensions provided by this Contractor. Field measuring the openings prior to ordering material for or constructing windows will NOT be permitted.
6. This Contractor is responsible for furnishing and installing ALL glass in aluminum AND hollow metal doorframes, hollow metal windows, hollow metal doors, and wood doors. Including glass for all doors, doorframes, borrow lite frame, etc. Include specialty glazing types such as obscure glass.
7. Furnish and install any necessary steel angles or clips required to attach the curtain wall or storefront systems to the building steel.
8. ***Furnish and install all steel required within storefront openings or within aluminum extrusions that might be necessary to support the storefront system and that meets the designed wind loading criteria.***
9. Furnish and install all frameless mirrors as noted on the Contract Documents. Refer to detail B5 on A-413.
10. Furnish and install all flashing, drip edges stop beads, jamb extensions, sills, stools, in frame insulation, weather stripping, etc. to ensure a watertight system. ~~***This Contractor is responsible for the prefinished aluminum roofing panels as noted in detail B1 on A-501.***~~

11. This Contractor is responsible for all caulking or sealants integral to the aluminum storefront and/or window systems and exterior caulking to adjacent dissimilar materials (i.e aluminum to masonry). Interior caulking shall be by the Caulking Contractor.
12. Provide all pre-finished aluminum materials as specified.
13. Furnish and install the aluminum finish trim for all systems furnished under this package.
14. All wood nailers, window and door blocking will be the responsibility of the Rough Carpentry Contractor, 06A. This Contractor is responsible for verifying that all required blocking for this package is installed.
15. Provide and pay for all hoisting, rigging, scaffolding, shoring, equipment, etc. required to accomplish the work described herein.
16. This Contractor is responsible for all fall protection and safety requirements associated with this work. When working from either lifts & harnesses, or tie-offs provided by this Contractor, OSHA standards must be met and followed at all times.
17. Furnish and install all aluminum entrance doors (interior and exterior), including support structure and any integral aluminum wall panel systems.
18. All aluminum door hardware to be furnished by others. Any aluminum door hardware that is integral to the aluminum doors (recessed pulls, etc.) shall be furnished and installed by this Contractor. Furnish and install any automatic door operators. Wiring of powered door hardware to the door is by the electrical Contractor, wiring within the frames is by this Contractor.
19. Provide any supplemental framing that is required to properly support the work described herein but not shown on the drawings or specifically assigned to another trade Contractor.
20. Include the necessary multiple mobilizations to the jobsite to facilitate the work per the project schedule
21. Furnish and pay for all engineering, testing, certifications, site visits by manufacturer representatives, etc. if required by the Contract Documents.
22. Coordinate with and make provisions for a security system to be installed by others such as but not limited to reinforcement, raceways, cutouts, etc.
23. Water test windows as required by the Contract Documents

SECTION 011200-09A – SPECIFIC SCOPE OF WORK – STUS & DRYWALL

SPECIFIC SCOPE – STUD & DRYWALL:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
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Volume 4: Divisions 26 – 33

NARRATIVE:

1. Include the cost of payment and performance bonds in the base bid.
2. This contractor is required to review all drawings including Structural, Architectural Mechanical, Electrical, Plumbing, Fire Protection, and Food service prior to mobilization to site to identify all items that need to be embedded-in, penetrate, or generally coordinated with this package.
3. This contract will be responsible for all exterior structural stud walls, interior metal stud walls and ceilings, soffits, bulkheads, shaftwalls, sheathing, drywall, ~~vapor~~ air barriers, batt insulation, ~~spray foam insulation~~ and sound batt material. (per Addendum #3)
4. For the cold-formed metal framing, have the shop drawings signed and sealed by a professional engineer.
5. This contractor owns all continuous tube steel along the top of all shear, interior and exterior stud framed walls. It is the responsibility of this contractor to install all horizontal steel integral to the stud-framed wall system. The Structural Steel Contractor owns all other tube steel and lintels. Coordinate with the Structural Steel Contractor, 05A, during installation of this work.
6. This contractor is responsible to have a dedicated layout crew (either in-house or independent) to perform layout of all walls, all doors, and window openings in walls. This crew must be onsite at the request of the construction manager when areas become available for layout. Layout will consist of marking lines on the floor with permanent marker and applying a sealer over the markings to keep them from fading.
7. Furnish only all anchors bolts as shown on details 8 & 9 on S-504 to the masonry contractor, 04A, for installation.
8. ~~This contractor to furnish and install all FRP (Wall Liner Panels) where shown on the contract documents. Installation methods are to follow the contract documents and/or the manufacturer's installation instructions whichever is more stringent.~~ (Delete per Addendum #3)
9. This contractor is required to F/I all metal framing (interior and exterior). Include all diagonal bracing and straps as called out.
10. This contractor is responsible to furnish and install all exterior sheathing. (Except Plywood).
11. Light gauge metal manufacturers must submit literature stating that the light gauge metal meets strength and stiffness standards.
12. This contractor is responsible to furnish and install any light gauge metal lintels, angles or clips.
13. This contractor is responsible to perform all required welding of light gauge metals by certified welders.
14. At the exterior canopies and projected window roofs, furnish and install the necessary hangers, stud systems, insulation and sheathing.
15. Provide fire treated and pressure treated lumber per the specifications. (Refer to spec section 06100)

16. Furnish and install any black iron support framing.
17. Furnish / Install all batt insulation, ~~spray foam insulation~~ and sound isolation blankets. Including areas that are sheathed by other trades. (Per Addendum #3)
18. This contractor responsible to install all required sealants, both fire rated and acoustical as required at tops, bottoms, and sides of walls.
19. Furnish and install any architectural or control joint systems in stud walls as required.
20. Furnish and install mock-up(s) as required by the specifications. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work. An exterior wall mock-up will be needed, review specifications for all mock-ups required.
21. A State of Delaware engineer, if required by the specifications, must stamp all light gauge structural steel material submittals.
22. Door frames and windows are to be installed by others. Upon completion of these installations, this contractor will be required to verify that the wall framing is plumb and true. This includes verifying that the doorframes and window frames are plumb and true.
23. Furnish and install all dens glass sheathing or other sheathing on the building. Tape or seal joints as required.
24. Furnish and install all exterior building wrap such as Asphalt paper or Tyvek (as per the specifications) on the building, including on top of plywood and gypsum sheathing.
25. Furnish and install all interior and exterior wall sheathing including, but not limited to, all drywall, dens glass, cement board, etc.
26. Contractor is responsible to verify that substrates installed under this contract requiring finishes other than paint (i.e ceramic tile) are within tolerances allowed for installation of those finishes.
27. Furnish and Install all access doors and panels for valves and junction boxes that are shown in all of the wall types, and on all of the drawings including the mechanical and electrical drawings. Include an additional ten (10), 18”x18” access doors in your base bid above and beyond what is shown on the drawings. All access doors on the project must be purchased from the same source.
28. Furnish and install the necessary stud framing to install gyp. board. (Refer to detail B1/A501)
29. This contractor is responsible to clear all expansion gaps of material and debris prior to close-up. WT must be given at least 24 hours notice in order to perform a proper inspection.
30. This contractor is responsible for all fall protection and safety requirements associated with the roof work. When working from either lifts & harnesses, or tie-offs provided by this contractor, OSHA standards must be met and followed at all times.
31. All interior metal stud framing is to be fastened top and bottom to the track, both sides. Walls are not to be closed up until this has been inspected. (Unless the wall is detailed as a slip-track connection.)
32. Provide all light gauge metal furring, framing, grids, straps, studs, resilient channels, box beams, and accessories.
33. Provide all cold-formed wall and floor metal framing systems.
34. Furnish and install gypsum wallboard at all locations where required. Cement board at Tile walls as specified. Moisture resistant gypsum board at wet areas as specified. Sealant at both sides of all rated partitions, and at tops of partitions.
35. Provide gypsum wallboard ceilings as indicated.
36. Furnish and install all structural cement fiber units as shown. (Typical of entry vestibules)
37. Furnish and install all expansion and control joints in wall construction integral with this work.
38. Coordinate with the Painting / VWC contractor related to patching and prep for finishes as follows:
    a. Drywall subcontractor will complete final sanding of drywall.
    b. Painter to spray / roll the prime coat.
    c. Whiting-Turner, drywall, and painting contractor to walk entire area and review drywall quality. Imperfections will be identified by circling with pencil.
    d. Drywall contractor will repair all circled imperfections.
    e. Painter will proceed with spraying / rolling of 1st coat.
    f. Items c and d will be repeated, correcting any remaining imperfections.
    g. Balance of work completed, i.e., millwork, flooring, hardware, etc.
    h. Painter will complete final coat by means of rolling/brushing.
39. All drywall column enclosures. Coordinate size of enclosure with MEP drawings to allow for additional space required for chases.

40. Verify that air and surface temperature, moisture, & humidity conditions are suitable for installation of this work.
41. Furnish and install all in-wall kiln dried fire rated wood blocking (minimum size of 2”x6”) for the products being furnished and installed under this contract as well as for any items on the drawings noted to be wall mounted or noted to be Owner Furnished Owner Installed. The blocking is to be installed as required by the contract documents or the manufacturer requirements whichever is more stringent. Items included but not limited to: handrails, casework, art work, signs, toilet accessories, toilet partitions, door bumpers, curtain tracks, kitchen equipment, draperies, equipment, accessories, projection screens, TV brackets, etc. This contractor is responsible to coordinate locations with other trades.
42. ***Furnish and install all interior Architectural Joint Systems. (ceiling expansion systems will be by the Ceiling Contractor, 09B. Furnish and Install all interior Architectural Joint Systems that interface. Example: Masonry to drywall, aluminum storefront to drywall, etc…) (Addendum #4)***
43. Provide all thermal, fire-safing, and sound attenuation insulation in walls.
44. All Exterior wall insulation is this contract’s responsibility. Even the material that is not accessible once the exterior structural studs and sheathing is installed is by this contractor. Install the insulation that is located behind sheathing and on top of stud walls as in 13/A30-02.
45. Furnish and install all metal stud framing that is located on top of CMU walls.
46. Provide supplemental lighting for gypsum board finishing.
47. Provide angles, neoprene filler, caulking, and fire safing where partitions abut adjacent construction.
48. Provide shaft wall assemblies complete.
49. Corner bead is to be mechanically fastened by screws at all locations.
50. This contractor will furnish the brick tie fasteners. This contractor will install the brick tie fasteners and the brick ties.
51. This contractor is responsible to provide all power required for the work within this contract. No power will be provided. If and when a temporary power source is provided, it will be the responsibility of this contractor to have a backup power source in case the temporary service goes out. Temporary power will only consist of 110V service. If a larger service is necessary, it will be the responsibility of this contractor.
52. This contractor owns all headers typical of details 3 & 4 / S-402.
53. This contractor will provide all top of drywall fire caulking per the contract drawings or fire code, which ever deems more stringent.
54. The Structural Steel Contractor owns all C-channels on top of continuous tube steel, i.e detail 1 / S-402.
55. The Structural Steel Contractor, 05A is responsible to supply ALL lintels unless made of cold-formed metal.
56. The Structural Steel Contractor, 05A owns installation of all lintels that connect to structural steel.
57. The Stud & Drywall Contractor, 09A owns installation of all lintels that connect to cold-formed stud system (supplied by 05A).
58. This includes the installation of all lintels that connect to structural stud on one end and masonry on the opposite end.

SECTION 011200-09B – SPECIFIC SCOPE OF WORK – ACOUSTICAL CEILINGS

SPECIFIC SCOPE – ACOUSTICAL CEILINGS:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
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Volume 4: Divisions 26 – 33

NARRATIVE:

1. Furnish and install all acoustical ceiling systems per the contract drawings and specifications, including but not limited to, grid hanger wire, fasteners, tile, and accessories.
2. Include caulking of the ceiling grid angle to the drywall smoke partition walls where detailed. (Similar to detail A6 / A-507)
3. Temporary lighting will be by others, but provide supplemental lighting for this trades work as necessary.
4. Furnish and deliver attic stock as per contract documents.
5. Coordinate ceiling grid and wall angle systems with the wall types. All work must be coordinated with other trades.
6. Allow a separate mobilization for and cut all ceiling tiles for electrical, sprinkler, and HVAC and other trades.
7. Allow time to layout the ceiling grid in each room so that the 15B – Sprinkler Contractor can install their systems and piping. The sprinkler contractor will install their work after your layout, but before the installation of the grid.
8. Assume that the installations of the ceiling grid, cutting in of the perimeter tiles, and dropping in of full tiles are three separate activities that may not happen at the same time. Assume some of the tiles will be cut earlier in the schedule and turned over to the MEP trades.
9. Furnish and install expansion and control joints in ceiling or wall construction integral with this work. (Typical of detail A5 / A-507)
10. Complete touch-up painting of cut ceiling tile edges where exposed.
11. Verify that air and surface temperature, moisture, & humidity conditions are suitable for installation of this work. Provide documentation stating this with daily reports.
12. Temporary heating will be by others. This contractor is to provide any supplemental heating, if required, to properly install this scope of work.
13. Furnish and install any custom metal break shapes as required or as noted on the drawings that are integral to the ceiling system.
14. Acoustical panels are included within this package.
15. This contractor is responsible for surveying all existing conditions related to installed above-ceiling MEP Items to ensure that minimum clearances for lights / ceiling tile installation exist. Notify CM of any discrepancies prior to installation of grid/accessories. Any rework resulting from failure to properly survey existing conditions will be at this contractor's cost. (Addendum #4)
16. Each room's tile completion will require a W-T sign-off the day of the installation.

SECTION 011200-09C – SPECIFIC SCOPE OF WORK – FLOORING

SPECIFIC SCOPE – FLOORING:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Furnish and install all acoustical ceiling systems per the contract drawings and specifications, including but not limited to, grid hanger wire, fasteners, tile, and accessories.
2. Include caulking of the ceiling grid angle to the drywall smoke partition walls where detailed. (Similar to detail A6 / A-507)
3. Temporary lighting will be by others, but provide supplemental lighting for this trades work as necessary.
4. Furnish and deliver attic stock as per contract documents.
5. Coordinate ceiling grid and wall angle systems with the wall types. All work must be coordinated with other trades.
6. Allow a separate mobilization for and cut all ceiling tiles for electrical, sprinkler, and HVAC and other trades.
7. Allow time to layout the ceiling grid in each room so that the 15B – Sprinkler Contractor can install their systems and piping. The sprinkler contractor will install their work after your layout, but before the installation of the grid.
8. Assume that the installations of the ceiling grid, cutting in of the perimeter tiles, and dropping in of full tiles are three separate activities that may not happen at the same time. Assume some of the tiles will be cut earlier in the schedule and turned over to the MEP trades.
9. Furnish and install expansion and control joints in ceiling or wall construction integral with this work. (Typical of detail A5 / A-507)
10. Complete touch-up painting of cut ceiling tile edges where exposed.
11. Verify that air and surface temperature, moisture, & humidity conditions are suitable for installation of this work. Provide documentation stating this with daily reports.
12. Temporary heating will be by others. This contractor is to provide any supplemental heating, if required, to properly install this scope of work.
13. Furnish and install any custom metal break shapes as required or as noted on the drawings that are integral to the ceiling system.
14. Acoustical panels are included within this package.
15. This contractor is responsible for surveying all existing conditions related to installed above-ceiling MEP Items to ensure that minimum clearances for lights / ceiling tile installation exist. Notify CM of any discrepancies prior to installation of grid/accessories. Any rework resulting from failure to properly survey existing conditions will be at this contractor's cost. (Addendum #4)

1. Each room's tile completion will require a W-T sign-off the day of the installation. Furnish and install all flooring including but not limited to: VCT, vinyl, rubber, carpet, rubber base, vinyl base, entrance and walk-off mats.
2. Ceramic and wood product flooring products are by others. All other flooring & base is by this contractor.
3. Flash patching: Assume in the base bid that 15% of all carpet and 25% of all VCT areas installed will need to be flash patched. In addition, include in the base bid the treatment of all sawcut joints in the existing slabs. Review structural drawings for extent. Any amount exceeding this will be considered extra work and will be deducted from the allowance. This contractor is required to document and track the amount of flash patching and have it signed-off daily by the Whiting-Turner Superintendent. Any amount unused will be deducted from the contract.
4. Provide all preparation work for all flooring in accordance with the manufacturer's recommendations.
5. All embeds or straps to be cast in concrete for the walk of mats are to be provided to the concrete contractor for installation. This contractor will be responsible for any core drilling and anchoring necessary if materials are not furnished to the Concrete Contractor 03A, prior to the concrete pour.
6. Furnish and install all resilient tile and sheet flooring, base, stair treads and accessories.
7. Furnish and install all resilient molding for carpet and vinyl flooring.
8. Furnish and install all rubber/vinyl base on the exposed sides and toe kicks of all casework.
9. Furnish and install the rubber / athletic floor in the Weight Room and Physical Therapy areas. Run the flooring product up the lower portion of the wall as indicated.
10. Furnish and Install Stainless Steel angle for walk off mats. (Refer to spec C2/A502)
11. Provide all required transition strips and miscellaneous trim pieces as required.
12. Scrape, broom and vacuum substrate to be covered by flooring immediately before installation.
13. Clean all cracks and sawcut control joints.
14. Provide minor floor cleaning at the completion of the flooring installation as required in the specification sections. Others will accomplish final (occupancy) cleaning.
15. Provide all required and manufacturer approved adhesives and setting bed materials
16. Provide all required expansion joints, thresholds, sealants, control joints, etc. as required to provide a complete finished product.
17. Furnish and deliver all required attic stock as per specification requirements.
18. Provide all caulking and sealants as required, including but not limited to expansion and control joints. Furnish and install any expansion joints in the flooring products.
19. Coordinate with Mechanical/Plumbing and Electrical contractors to insure a neat and flush interface with devices installed in this work.
20. Prepare a mock-up of flooring per specification, including standard pattern to be approved by the Owner prior to commencement of work. (Mock-up to be completed at least on month prior to commencement of scheduled tile installation.) Mock-up shall represent the standard of workmanship for the tile work and shall remain in place unless Owner/Architect rejects mock-up based on workmanship, in which case removal is included in this scope.
21. Verify that air and surface temperature, moisture, & humidity conditions are suitable for installation of this work.
22. This contractor is responsible for hauling of all materials to jobsite and work area. WT will not provide any laborers for assistance.
23. Conduct moisture / bond tests on surfaces to receive new materials. Notify WT of any related problems/issues 2 weeks prior to installation.
24. Temporary water will be provided by others, but the location may not be near your work area.
25. The beginning of this contractors' installation constitutes acceptance of the floor surface. Notify WT of any problems two weeks prior to starting work.
26. Base building temporary heat is by others, but this contractor is responsible to supply a portable heater in the area they are working if temperature conditions are not adequate.
27. All VCT, seamless flooring, and base seams must be inconspicuous, tight, flat, unpuckered edges, and free from adhesive. Prepare the sub floor accordingly.
28. Provide Caulking to match at all flooring to doorframes as required.
29. Furnish and Install caulking of VCT to adjacent surfaces where no base is specified (ie: curtainwall, brick etc…)
30. Assume concrete at all column infills (diamonds) to receive finished flooring will be held down ¼" – include flash patching at these locations as required.

31. Furnish and Install Caulking at VCT to door frames/accessories (mullions, flush bolt plates, etc…) Color to be selected by Owner/Architect.
32. This contractor is responsible for the SS walkway mat framing and grating per detail C2 / A-502.

SECTION 011200-09D – SPECIFIC SCOPE OF WORK – PAINTING

SPECIFIC SCOPE – PAINTING:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Protect all surfaces from overspray. This includes finished and non-finished surfaces including steel and concrete.
2. Promptly clean / remove any overspray from adjacent factory finished materials or glass. Cover any new or existing glass prior to painting.
3. Temporary building heating will be by others. This contractor is to provide any supplemental heating, if required, to properly install this scope of work within the project schedule and continue uninterrupted until complete.
4. Provide supplemental lighting for surface preparation and painting as required to accomplish the work described herein.
5. Furnish and install all painting including but not limited to, at a minimum, one prime coat, touch up of all GWB point up and patching prior to the final coat of paint, and two final coats at the specified thickness.
6. Furnish and install all paint / special paint / textured paint coatings and accessory materials where indicated. Review wall sections & elevations for the extent of the work.
7. This contractor is responsible for the painted graphic of the high school mascot in the Gymnasium.
8. Provide the painting of all interior and exterior surfaces required by the drawings and specifications as shown including, but not limited to all concrete, masonry, gypsum wallboard, plaster, wood and metal surfaces, all hollow metal doors and doorframes, reveals, access panels, stairs, exterior materials not pre-finished, exposed steel (including classrooms), exposed metal deck, handrails, exterior lintels, bollards, any exposed exterior gas piping, and any exposed incoming utilities and piping as required.
9. Perform painting of all exposed ceilings, duct, plumbing pipe, sprinkler pipe, conduit, and ceilings in areas that are scheduled to receive paint, such as gymnasium, auditorium, mechanical spaces, etc.
10. Perform painting of any exterior or rooftop piping, steel, or mechanical devices noted to be painted.
11. Cover and protect all sprinkler heads prior to painting ceilings. Remove at end of project.
12. Provide the painting preparation of all surfaces as required by the paint manufacture or specification, whichever is more stringent, including but not limited to all items listed in this scope of work
13. Perform exterior painting of wood, masonry, and metal items scheduled to receive paint.
14. Finish all millwork and casework not scheduled to receive a factory finish.
15. Furnish and install painting of all roof access ladders or other miscellaneous metals items.
16. Furnish and install concrete floor sealers and required primer at all locations noted in the finish schedule.
17. Furnish and install all high performance coatings for floors as noted on the contract drawings
18. Coordinate with the GWB Partitions contractor to patch and prep for finishes as follows:

a. Drywall subcontractor will complete final sanding of drywall.
b. Painter to apply the prime coat. (spray and backroll is exceptable)
c. Whiting-Turner, drywall, and painting contractor to walk entire area and review drywall quality. Imperfections will be identified by circling with pencil.
d. Drywall contractor will repair all circled imperfections.
e. Painter will proceed with application of the 1st coat.
f. Items c and d will be repeated, correcting any remaining imperfections.
g. Balance of work completed, i.e., millwork, flooring, hardware, etc.
h. Painter will complete final coat by means of rolling/brushing.

19. This contractor shall participate in a sign-off procedure, as established by Whiting-Turner, on a room-by-room basis after priming and point up and prior to the room being released to receive final coats of paint.
20. Include cost to paint any galvanized steel that is specified to receive paint. Perform all necessary preparation and utilize the correct products to ensure proper paint adhesion.
21. Provide all elastomeric coatings for cementitious surfaces and associated surface preparation, as per specifications.
22. Furnish and install all caulking and sealants required for this work including caulking of all interior doorframes and windows to neighboring surfaces.
23. Provide attic stock at a minimum of one labeled and unopened one gallon container of each paint color, type and surface texture used on the project that will be turned over to the Owner at the completion of the project. Provide additional quantities of attic stock if required by the specifications.
24. Verify that air and surface temperatures, moisture, and humidity conditions are suitable for installation of this work.
25. The beginning of this contractors' installation constitutes acceptance of the ceiling, floor or the wall surface. Notify WT of any problems two weeks prior to starting work.
26. Cover all floor surfaces while painting – This includes finished and unfinished floors. Flooring materials need to bond to bare concrete in order for their warranty to be accepted. This contractor will be responsible to remove any overspray from floors.
27. Include in your price masking of finish products that may be installed prior your painting.
28. Include in your price cost to perform normal punch-list touch-ups at the end of the project prior to move-in.
29. Include priming of all surfaces prior to application of final coats of paint.
30. Provide a deep base, 3 coat, high traffic, low sheen, water based coating system for the masonite stage flooring system.
31. All exposed non-insulated piping will have to be color code painted. Gas piping will be painted yellow, and sprinkler pipe will be painted red. Any other pipe – color will be determined at later date.
32. Fire rating labels and any other pipe labels shall not be be painted over!
33. Provide minor prep work to hollow metal and wood trim and gypsum walls prior to installation including but not limited to sanding, scraping, puttying minor dents, minor cleaning and/or dusting, etc.
34. Cleaning of overspray as required. Carefully scrape paint off all glass surfaces and any finished product. Pay the cost to replace any item that cannot be cleaned back to its original condition.
35. All spray coatings must be backrolled, with the exception of exposed metal decking.
36. Gym floor striping and exterior pavement markings are by others.

SECTION 011200-09E – SPECIFIC SCOPE OF WORK – EPOXY FLOORING

SPECIFIC SCOPE – EPOXY FLOORING:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Furnish and install all resinous floor and integral base including but not limited to, floor preparation, floor leveling, accessories, caulking, protection, etc. required to provide a complete installation.
2. Provide all required expansion joints, thresholds, caulking and sealants, control joints, etc. as required to provide a complete finished product. (Expansion and control joints to follow existing joints in concrete deck or floor, not necessarily indicated on the contract documents)
3. Furnish and install any caulking integral to the resinous flooring system as required by the contract documents.
4. Furnish and install dust barriers at points between phases to prevent dust contamination in adjacent areas.
5. Contractor is required to attend a mandatory pre-installation conference to review and advise on existing conditions at the site.
6. This contractor is required to prepare the substrate prior to the resinous flooring installation per the specifications, i.e. vacuum blasting, removal of any contaminants that may affect bond strength
7. Clean and fill cracks and non-expansion joints with the materials as per specifications prior to flooring installation.
8. Coordinate with Mechanical/Plumbing and Electrical contractors to insure a neat and flush interface with all fixtures and devices installed in this scope of work. Verify that floor drains are at the proper elevation prior to starting work.
9. Conduct moisture / bond tests on surfaces to receive new materials. Notify WT of any related problems/issues 2 weeks prior to installation.
10. The beginning of this contractors' installation constitutes acceptance of either the floor and/or wall surface. Contractor to notify WT of any problems or if substrate is not acceptable at least two weeks prior installation.
11. This contractor is responsible for hauling of all materials to jobsite and work area. WT will not provide any laborers for assistance.
12. Furnish and install a 10' x 10' mock-up(s). (Floor and integral base) Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work.
13. Mock-up procedure: Will include a manufacturer's time recommendation of each coat's installation. The time parameter must be met in order for mock-up acceptance. The quality will be reviewed for acceptance by the Construction and Design Team. The Contract will not be awarded until mock-up is completed.

14. Verify that air and surface temperature, moisture, & humidity conditions are suitable for installation of this work.
15. Temporary water will be provided by others, but the location may not be near your work area.
16. Temporary building heating will be by others. This contractor is to provide any supplemental heating, if required, to properly install this scope of work within the project schedule and continue uninterrupted until complete.
17. Core samples may be requested by the Architect, Owner, or Whiting-Turner.
18. A temporary power source will be provided, but it will be the responsibility of this contractor to have a backup power source in case the temporary service goes out. Temporary power will only consist of 110V service. If a larger service is necessary, it will be the responsibility of this contractor.
19. This contract is responsible for repairs / replacement of any materials installed by others that are damaged or stained during the preparation and installation of this work.

SECTION 011200-11A – SPECIFIC SCOPE OF WORK – KITCHEN EQUIPMENT

SPECIFIC SCOPE –KITCEN EQUIPMENT:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. This contractor is required to review all drawings including Structural, Architectural Mechanical, Electrical, Plumbing, Fire Protection, and Food service prior to mobilization to site to identify all items that need to be embedded-in, go thru, or generally coordinated with this package.
2. Provide all new kitchen equipment per drawings and specifications. Refer to FS drawings for equipment schedules and details.
3. Engage factory trained engineers / technicians to oversee the installation of the specified equipment as required per the equipment manufacturer. Arrange for the factory representatives to inspect the installation when complete. Note, a sales representative does not constitute a factory trained engineer / technician.
4. Furnish and install necessary racks or curbs for the condensing units for kitchen equipment.
5. Coordinate the installation of the new kitchen equipment items with items supplied by the CM, other trades, or owner.
6. Provide all new incidental materials / equipment including fasteners, shims, faucets, strainers, lever-wastes, and appurtenances necessary to complete this scope of work.
7. This contractor is responsible for the delivery, unloading, unpacking, erection, and assembly of all equipment supplied under this package. Haul all packing materials to the dumpster.
8. This subcontractor shall prepare a detailed and dimensioned IN-WALL wood blocking drawing for use by other trades. Any blocking or fastening devices required ON THE WALLS are by this contractor.
9. Supply submittals, product data, shop drawings, samples, etc. for all equipment and casework supplied, minimum of eight (8) copies or per the specifications, whichever quantity is greater.
10. Provide coordination drawings for all underslab and in-wall plumbing and electrical rough-in to be installed by others. Include details and dimensions for all sleeves, penetrations, block

outs, stub-ups and rough-ins, etc required. This work is critical path shop drawings must be completed 3 weeks after award. Expedite the delivery of all items to be cast into to slab.

11. This contractor shall prepare all equipment for the final plumbing and electrical connections by other trades. Furnish and install all electrical cords where specified.
12. Furnish and install the exhaust hoods and hood suppression systems as indicated on the contract documents. Wiring to the building fire alarm system is by the electrical contractor. Connection to exhaust duct by the mechanical contractor.
13. Furnish and install all refrigeration piping for the kitchen equipment, including the piping required for the walk-in boxes. Furnish, install, and test any heat tracing required in the walk-in boxes. Furnish and install any insulation required on piping within the walk-ins or on the heat traced lines. This includes refrigeration and condensate lines.
14. Furnish and install all panic alarms for all equipment as noted.
15. This contractor shall coordinate with the local health department and include all requirements for obtaining final certification.
16. Furnish and install all caulking and sealants as required by the drawings, specifications and in order to meet all State and local health requirements.
17. All layout of this work is the responsibility of this contractor.
18. This contractor must have a person on site to verify the locations of all plumbing, electrical, and in-wall blocking rough-in locations prior to wall or floor close-up.
19. Test the operation of all of the equipment. Provide a start-up report that lists the equipment and that it has been verified to be operational. Start-up and testing operations should be witnessed by WT and Owner's representative.
20. Obtain all necessary permits, inspections and pay for all fees associated with this work.
21. Test the fire protection system for the CM prior to the Fire Marshall inspection.
22. Install any owner furnished items. Perform re-caulking, cleaning, and testing as necessary for these items.
23. Instruct the owner's personnel on the operation and use of the all of the equipment.
24. Review all notes that pertain to this trade on all specifications and drawings.
25. Furnish only all drain troughs with grating and floor troughs with grating for installation and connection to drain piping by others. Delivery of these items must be expedited so as not to delay pouring of the concrete slab in the kitchen.
26. Furnish and install all stainless steel corner guards, wall panels, caps, trims, counters, column covers and wall chases.
27. Furnish and install walk-in refrigerator and freezer with associated piping and insulation. Provide urethane insulation below flooring at walk-in refrigerators and freezers. Provide any required closure panels between top of walk-in box to finished ceiling to provide a complete finished assembly.
28. Provide all cashier counters and condiment counter.
29. Coordinate with mechanical / electrical equipment layout and connections.
30. This contractor is required to have a representative visit the site at a minimum of twice per week to check the progress and dimensions of in-wall blocking and plumbing and electrical rough-ins. The representative shall be knowledgeable enough to be able to answer questions regarding the equipment and coordinate with the CM and the other trades. Additional visits may be required for coordination at no additional cost to the project.
31. Provide sufficient, insured warehouse space and equipment store the equipment prior to required delivery dates.

32. The contractor shall make all collars, sealants, etc. for ventilation exhaust hoods, etc. complete and ready for final connection to the HVAC system by the mechanical contractor.
33. Subcontractor shall verify that food service equipment delivery and installation sequencing is coordinated with the work and sequencing of other trades and that equipment will fit through doors and other finished access ways. Equipment that will not fit through doors and other access ways shall be set in place prior to completion of doors and access ways.
34. Finish Paint/ Materials: This contractor will protect all finish painted surfaces and floors adjacent to work areas. Any touch-up of damaged areas will be the responsibility of this contractor.
35. Provide drain lines for refrigeration systems and within walk-in coolers and freezers.
36. Provide all counter tops for equipment furnished under this scope unless noted otherwise.
37. Extra costs associated with the relocation of electrical and mechanical rough-in that is installed per approved rough-in drawings shall be by this contractor.
38. Provide a procurement log of each equipment item provided under this scope on a weekly basis. Procurement log shall be completely up to date with current status and anticipated delivery and installation dates. Digital and hard copies of the log shall be submitted weekly to WT 24 hours prior to progress meetings. Digital copies may be transmitted on CD or via e-mail.
39. This contractor must take field dimensions prior to fabrication of custom equipment. When schedule does not allow for field dimensioning, produce redlined architectural drawings indicating actual dimensions to build to. Tolerances of each dimension shall be noted. This contractor shall be responsible for extra costs associated with any field modifications that may be necessary for areas that were constructed per the redlined drawings.
40. Perform final cleaning of kitchen equipment. Remove all labels, plastic, etc. Assemble all paperwork and manuals that come with the equipment for the owner and turn over to CM.
41. Supply warranties and operations and maintenance manuals for all equipment and casework supplied, minimum of five (5) copies or per the specifications, whichever quantity is greater.
42. All items turned over to other trades for installation shall include a transmittal sheet listing all items being transmitted. Copies of transmittals shall be provided to Whiting-Turner for record purposes.
43. Unless specifically noted to be by others, all items mentioned in the Kitchen Equipment specification shall be the responsibility of this contractor to furnish and install.

44. MEP COORDINATION:

Each MEP Contractor shall be responsible to take part in the MEP coordination process. This coordination process will be done using two dimensional drawings. The Mechanical Contractor shall be responsible to take the lead in this process, overlay all other MEP trade coordination drawings and create a totally coordinated set of MEP shop drawings that the MEP systems can be installed to. In addition as-built modifications shall also be the responsibility of the Mechanical Contractor at the completion of the project. Once all as-built modifications are made the Mechanical Contractor shall provide drawings in both hard copy and electronic format as part of the O&M documentation.

The process will be as follows: Before any coordination drawings are started a coordination meeting will be held. All MEP contractors will be required to attend. At the initial meeting the items to be discussed will be as follows.

#1 – Electronic software to be used
#2 – Scale to be used
#3 – Assignments of layers to each MEP Contractor
#4 – Sequence of design based on construction sequence through the building

After the initial meeting all MEP Contractors will be given a copy of the project backgrounds. It will be the Mechanical Contractors responsibility to make sure these backgrounds are imported onto the coordination drawings. In addition steel shop drawings will also be distributed for use in the coordination process. Each MEP Contractor will create their coordination drawings based on the layer or elevation given to then in the initial coordination meeting. If any part of their work extends out of the designated layer they are to notify both the Construction Manager and the Mechanical Contractor of this potential interference. Once notified the Mechanical Contractor will research if the potential interference impacts other systems and will present possible solutions at bi weekly coordination meeting. At the bi weekly coordination meetings these potential interferences and solutions will be discussed and the least cost solution will be utilized. All MEP Contractors are responsible to attend these bi weekly meetings and send at least 3 days in advanced updated files of their coordination drawings to the Mechanical Contractor so the coordination drawings at the meeting are current. These meeting will continue until the coordination process is complete. If a MEP Contractor does not see fit to attend these meetings or if electronic updates of their coordination drawings are not sent to the mechanical contractor in a timely fashion a $500.00 penalty may be assessed and a credit change order issued to their contract. Please note that the coordination process is part of building the project. No additional compensation will be due for relocation of any MEP systems as part of this coordination process.

SECTION 011200-11B – SPECIFIC SCOPE OF WORK – GYM EQUIPMENT

SPECIFIC SCOPE – GYM EQUIPMENT:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Furnish and install all gymnasium equipment, including but not limited to: wall padding, motorized court divider curtains, retractable and fixed backboards, volleyball inserts and volleyball equipment as shown on the Contract Documents.
2. Install the electronic scoreboard.
3. Furnish and install gym divider curtain in its entirety. Support steel for the gym divider curtain is by others to the extent shown on the contract drawings. Additional support steel not shown on the drawings is by this Contractor. The Gym Equipment Contractor is responsible to verify layout, this will require a separate site visit. Submittals for the gym curtain must be expedited upon acceptance of alternate / contract award.
4. Furnish and install outdoor basketball backstops. Order inserts upon submittal approval and deliver to the jobsite for installation by the Sitework Contractor.
5. Provide all samples, certificates, warranties, shop drawings, etc. as specified.
6. Prior to commencement of work, this Contractor shall inspect the walls, ceilings, and/or structure to verify critical dimensions and supporting structures. The Contractor shall notify the Construction Manager in writing of any discrepancies 8 weeks prior to starting work. Failure to notify the Construction Manager shall constitute acceptance of existing conditions.
7. Provide all miscellaneous structures/supports or uni-strut as required for support of this work.
8. Any miscellaneous steel or new steel beams are by others as shown on the Contract Documents.
9. Provide all necessary equipment and layout for the installation for this work.
10. Forward the submittals for the volleyball inserts immediately upon award of the contract. Order the inserts upon approval and deliver to the project immediately.
11. Provide video taped training of all operable equipment. Demonstrate the operation of the equipment to the Owner.
12. Engage factory representatives when required to oversee the installation of equipment provided in this bid package. Arrange for the factory representatives to inspect the installation when complete.
13. Coordinate with electrical Contractor for electric requirements for the equipment provided in this bid package. Internal wiring within the equipment is required is by this trade. Electrical connection to building power by others. Furnish operating switches for all equipment to the electrical Contractor.

The installation and wiring of the operating switches is by the electrical Contractor if remote from the equipment itself.

14. Furnish and install all associated brackets, anchors, hardware, and accessories. Provide all submittals, shop drawings, and samples as required. Furnish and install transition pieces integral to this work, i.e. thresholds or trim, etc. Furnish and install all fastening materials.
15. Provide all layout and drilling of any holes required in the structural steel for the installation of the work required in this bid package upon receipt of approved submittals.
16. Coordinate with finishing trades associated with this trade, prior to beginning work.
17. A temporary power source will be provided, but it will be the responsibility of this Contractor to have a backup power source in case the temporary service goes out. Temporary power will only consist of 110V service. If a larger service is necessary, it will be the responsibility of this Contractor.

SECTION 011200-12A – SPECIFIC SCOPE OF WORK – CASEWORK

SPECIFIC SCOPE – CASEWORK:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. This contractor is responsible for the supply and installation of all casework and tops and associated storage cabinets, shelves, cubbies, computer stations, window seats, etc. This is generally all casework in the classrooms, multipurpose rooms, library, offices, breakrooms, bathrooms, etc.
2. Furnish and install all custom millwork including, but not limited to, railing tops, wall caps, stage apron, etc. Interior handrails receiving wood railing tops (typical of the Auditorium) are to be coordinated with the Miscellaneous Metals Contractor, 05B for a smooth and continuous installation.
3. Include in the bid the cost to supply and install 6 mil. poly with hardboard masonite over all horizontal surfaces and provide cardboard at the vertical surfaces to protect final installed materials and associated finishes. Securely fasten in place. Protection must be installed as soon as the work is complete to minimize damages. Removal of protection is to be included.
4. Verify that air and surface temperatures, moisture and humidity conditions are suitable for installation of this work. This contract shall provide air and surface temperature documentation, including relative humidity.
5. Temporary building heating will be by others. This contractor is to provide any supplemental heating, if required, to properly install this scope of work.
6. Furnish and Install wood aprons and nosings at the stage and the raised platform shown on D4/A-411. The nosing must be installed after the flooring has been completed.
7. This contractor is responsible for hauling of all materials to jobsite and work area. WT will not provide any laborers for assistance.
8. Furnish and install all plastic laminate casework, wood casework, corian and laminate tops, corian sinks, wall cabinets, base cabinets, glazing, associated hardware, etc. Including all backsplashes, side-splashes, toe-kicks, filler panels, sink enclosure panels, as shown in drawings or required to create a finished product.
9. Furnish and install all shelves, shelf supports, drawer guides, and drawer pulls.
10. Furnish and install mailbox assemblies complete in Room 337.
11. Furnish and install all book cases and/or storage cubbies as shown on contract documents.
12. Furnish and install the custom casework reception desk in Room 154, including all blocking, laminate tops, and walls, solid surface, supports, blocking, maple, aluminum reveal channels, black reveals, etc.
13. Furnish and install the custom casework desk in Library including all blocking, laminate tops, and walls, solid surface, supports, blocking, maple, aluminum reveal channels, black reveals, etc.
14. Furnish and install complete all custom trash receptacles as detail on C6/A-506.
15. Furnish and install complete window seating.
16. Furnish and install all wood blocking, etc that is internal to the structure of all casework.

17. Coordinate all concealed in-wall blocking with the Partitions Contractor, 09A, with layout and location information provided by this contractor.
18. All products supplied must meet the required certifications listed in the specifications. Drawings and specifications must be strictly adhered to for materials used, cabinet, drawer and countertop construction, and installation.
19. Install and sand wood filler or putty at all joints and nail holes. If finish is other than paint, the finish is the responsibility of this contract.
20. Prepare and prime any product scheduled to receive paint, for painting by others.
21. Furnish and install all surface mounted blocking required to install the work described herein.
22. Furnish and install all metal support brackets beneath countertops.
23. Provide filler panels as needed. Filler panels are to be neatly scribed to conform to the profile of the adjacent construction.
24. Coordinate with and provide cutouts in casework materials, for work/equipment provided by other trades. (i.e. Plumbing, Electrical, Security equipment ,etc).
25. Provide all hardware associated with this work.
26. Provide caulking of all work installed under the contract and as required by the contract documents. Caulk all millwork, trim and cabinetry to adjoining building elements
27. This contractor is responsible to verify wall dimensions and/or provide hold-to dimensions to the 09A partitions contractor. Shop drawings and casework fabrication may need to precede wall construction.
28. Furnish and install all grommets required.
29. Furnish and install all locks and keys, as indicated on drawings.
30. Furnish and install all supports for the bathroom counters.
31. Furnish and install keyboard trays or any other accessories attached to the casework.
32. Furnish and install any finished stain of the casework or cabinetry.
33. A temporary power source will be provided, but it will be the responsibility of this contractor to have a backup power source in case the temporary service goes out. Temporary power will only consist of 110V service. If a larger service is necessary, it will be the responsibility of this contractor.

SECTION 011200-12B – SPECIFIC SCOPE OF WORK – WINDOW TREATMENTS

SPECIFIC SCOPE – WINDOW TREATMENTS:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Provide all window treatments as shown on drawings and as specified
2. Verify that air and surface temperatures, moisture and humidity conditions are suitable for installation of this work. This contract shall provide air and surface temperature documentation, including relative humidity.
3. Temporary building heating will be by others. This contractor is to provide any supplemental heating, if required, to properly install this scope of work.
4. This contractor is responsible for hauling of all materials to jobsite and work area. WT will not provide any laborers for assistance.
5. Coordinate all concealed in-wall blocking with the Partitions Contractor, 09A, with layout and location information provided by this contractor.
6. All products supplied must meet the required certifications listed in the specifications. Drawings and specifications must be strictly adhered to for materials used, cabinet, drawer and countertop construction, and installation.
7. Furnish and install all surface mounted blocking required to install the work described herein.
8. Provide all hardware associated with this work.
9. Provide caulking of all work installed under the contract and as required by the contract documents. Caulk all millwork, trim and cabinetry to adjoining building elements
10. This contractor is responsible to verify wall dimensions and/or provide hold-to dimensions to the 09A partitions contractor.
11. A temporary power source will be provided, but it will be the responsibility of this contractor to have a backup power source in case the temporary service goes out. Temporary power will only consist of 110V service. If a larger service is necessary, it will be the responsibility of this contractor.

SECTION 011200-14A – SPECIFIC SCOPE OF WORK – ELEVATOR

SPECIFIC SCOPE – ELEVATOR:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. The following scope of work pertains to the Residence Hall only.
2. Include the cost of performance and payment bonds in the base bid.
3. Provide full-time onsite foreman to monitor and supervise work described herein.
4. The Construction Manager will provide temporary power and lighting to the extent indicated in the section 00540 “Construction Facilities and Temporary Controls”. It is this Trade Contractors responsibility to furnish, install, maintain and remove any additional supplemental power and lighting needed over and above that which is described therein.
5. Provide, maintain and remove in accordance of all applicable codes all work platforms, such as ladders, scaffolding, motorized platforms, etc., required to accomplish the work described herein. If scaffolding must be erected on an elevated floor slab and/or roof provide supplement shoring of the existing structure that is design by a structural engineer licensed in the State of Delaware.
6. Furnish and install mock-up(s) as required by the specifications. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work.
7. Provide daily clean up of the debris to the dumpster as a result of the work described herein.
8. Provide video taped training of all operable systems as per the specifications.
9. Provide hydraulic elevators complete, including but not limited to, rails, jack hole, piston cabs, equipment, frames and doors, signage, lantern, hall buttons, sills, controls, toe guard, piping, inter-equipment control and power wiring, etc…
10. Provide and install elevator door sill angles.
11. Provide grouting of sills.
12. Coordinate the installation of the work described herein with the Electrical and Fire Protection Contractors.
13. Provide the elevator guide rail support detailed in contract drawings if your rails cannot span the floor to floor dimension on the contract drawings provide supplemental bracing as required.
14. Prior to commencement of work, the Elevator Contractor shall inspect the hoistway, hoistway openings, pits and machine room to verify critical dimensions and supporting structures. The contractor shall notify the Construction Manager in writing of any discrepancies. Failure to notify the Construction Manager shall constitute acceptance of existing conditions and corrective measures will be the responsibility of the Elevator Contractor.

15. Safety barricades and/or cables shall be provided by this Contractor, in and around the hoistways.
16. The Contractor shall be responsible for obtaining and coordinating the necessary licenses, permits and inspections required to put the elevators in service. In writing, advise the Construction Manager, Owner, Architect, and Government Inspection Department in advance of dates and times of inspections and tests that are to be performed on the elevators. Provide copies of all reports to the Construction Manager.
17. Provide all elevator signage.
18. Demonstrate the operation of the elevators to the Owner.
19. Coordinate and pay for all final inspection and licensing.
20. Provide and pay for all electrical revisions if the equipment electrical requirements are different than those on the contract documents.
21. Provide hoistway access on top of the cab for inspections, and fire protection and electrical work installation.
22. Allow at least 2 additional site visits after elevator is installed.
23. Provide three days of operator time, per cab to allow the sprinkler, electrical and other coordinated contractors into hoistway to install their work.
24. Install elevator pit ladder per drawings and per code. Ladder will be furnished by others.
25. Provide warranty and maintenance service as specified.

SECTION 011200-21A – SPECIFIC SCOPE OF WORK – FIRE PROTECTION

SPECIFIC SCOPE – FIRE PROTECTION:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
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Volume 4: Divisions 26 – 33

NARRATIVE:

1. Include the cost of performance and payment bonds in the base bid.
2. The use of on site materials for backfilling will not be permitted. Backfill for all underground trenching work by the mechanical, plumbing, electrical and sprinkler contractors must be select fill.
3. Provide fire-stopping sealant at all penetrations in fire rated walls, floors, and ceilings.
4. Submit on all fire-stopping material.
5. Submit on all access doors.
6. Low pressure air testing must be performed on off hours. Obtain manufacturer's written approval of test procedure. Perform a hydraulic pre-test of all systems prior to the Fire Marshall inspection. This test will be witnessed by Whiting-Turner.
7. Responsible for field verifying all clearances.
8. Maintain and submit five copies of as builts at closeout.
9. Ref. 15050-2.10.C.4 for Identification Color Chart.
10. Provide UL Listed supports as required by drawings and/or specifications.
11. Provide all cutting, patching, core drilling, sleeves, and penetrations as required. Sleeve all penetrations at all walls and floors. Provide sleeves to the masonry contractor as required. Any penetrations through finished walls will be the responsibility of this contractor to repair.
12. Provide and set a sleeve in the foundation wall for the incoming water service. Coordinate the size of the sleeve to accommodate a link seal. The site contractor owns installing, flushing and testing the incoming water service to a point five feet from the outside of the building. The sprinkler contractor owns all below slab piping. Coordinate and work with the site contractor to install the incoming service to a point that is above the slab and terminates with a blind flange fitted with a flush valve.
13. Provide chrome escutcheons at all exposed pipe penetrations.
14. Ref. 15050 for sprinkler material specification.
15. Provide all piping, hangers, anchors, valves, back flow preventer, dry system valve assemblies, air compressors, heads, supports, fittings, hose cabinets, hose connection valve, identification devices, penetrations, drains, labels, tags, alarm devices, flow switches, tamper flow switches, flow indicating devices, fire department connection, signage, etc. for a complete fire protection system.

16. Furnish and install a sprinkler head in every closet. Coordinate location with the electrician to avoid interference with the lighting.
17. Furnish and install all wet and dry systems as required to meet codes and satisfy the requirements of the inspecting agencies. This is a performance based specification. Perform all head relocations and additions required by the local Fire Marshall and or Factory Mutual. Include installing sprinkler heads beneath all 1st floor stair landings and any insulated duct wider than 48".
18. Provide all permitting and fees other than the Building Permit.
19. Forward all leak and pressure testing certification and documentation to W-T & the Fire Marshall. Have tests witnessed as required.
20. Install proper sprinkler head types for high heat locations such as skylights, attic, etc.
21. Install proper sprinkler head types where required for freeze protection.
22. Furnish and install hose valve cabinets and valves as shown.
23. Furnish and install guards or screens on sprinkler heads where required by code or indicated on the drawings, such as mechanical rooms, storage rooms, stairwells, gymnasiums, etc.
24. Furnish and install concrete splash blocks at test drains.
25. All wiring is by the electrical contractor.
26. Provide site flow test to determine current water supply available at project site. Refer to FP-100, note 13.
27. Provide range hood fire extinguishing systems. Rang hoods provided by others
28. This contractor responsible for coordinating hanger method with truss manufacturer.
29. Furnish and install mock-up(s) as required by the specifications. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work.
30. This contractor is solely responsible for his own scaffold, rigging, ladders, hoists, security and storage.
31. In wall or above ceiling insulation must be reinstalled and/or replaced by this subcontractor when disturbed during the installation of work associated with this contract.
32. Provide 5 days notice prior to shutdown of any system on site or within the building.
33. Plywood covered floor penetrations must be fastened to the slab.
34. Coordinate with carpenter and CM for any in-wall blocking required for support.
35. Coordinate all power requirements with the electrician.
36. Furnish single point of electrical connection for all new equipment.
37. All of the building's equipment will be utilized during construction. All guarantees and warranties must be extended as needed so as not to diminish those required by the construction documents for the Owner at final acceptance.
38. Coordinate with the electrician to ensure that all breakers and switches associated with the air compressors are locked in the on position.
39. Supply and install one wall mounted sprinkler head cabinet to store two of each type of head used including wrench.
40. Provide sufficient information in the submittal shop drawing to indicate the physical size and elevation of the inspector's test stations.
41. Temporary Fire Protection – Furnish, Install, Maintain, and remove the following designed to county, state, city, OSHA and NFPA standards: Provide and maintain (6) 20# ABC fire extinguishers in the building. They are to be mounted on columns with hangers and labeled with signage. These extinguishers are to remain onsite throughout the project.
42. Electrical contractor to wire all tamper switches, flow switches, gong and air compressor as supplied and installed by the fire protection contractor.
43. **MEP COORDINATION:**

    Each MEP Contractor shall be responsible to take part in the MEP coordination process. This coordination process will be done using two dimensional drawings. The Mechanical Contractor

shall be responsible to take the lead in this process, overlay all other MEP trade coordination drawings and create a totally coordinated set of MEP shop drawings that the MEP systems can be installed to. In addition as-built modifications shall also be the responsibility of the Mechanical Contractor at the completion of the project. Once all as built modifications are made the Mechanical Contractor shall provide drawings in both hard copy and electronic format as part of the O&M documentation.

The process will be as follows: Before any coordination drawings are started a coordination meeting will be held. All MEP contractors will be required to attend. At the initial meeting the items to be discussed will be as follows.

#1 – Electronic software to be used
#2 – Scale to be used
#3 – Assignments of layers to each MEP Contractor
#4 – Sequence of design based on construction sequence through the building

After the initial meeting all MEP Contractors will be given a copy of the project backgrounds. It will be the Mechanical Contractors responsibility to make sure these backgrounds are imported onto the coordination drawings. In addition steel shop drawings will also be distributed for use in the coordination process. Each MEP Contractor will create their coordination drawings based on the layer or elevation given to then in the initial coordination meeting. If any part of their work extends out of the designated layer they are to notify both the Construction Manager and the Mechanical Contractor of this potential interference. Once notified the Mechanical Contractor will research if the potential interference impacts other systems and will present possible solutions at bi weekly coordination meeting. At the bi weekly coordination meetings these potential interferences and solutions will be discussed and the least cost solution will be utilized. All MEP Contractors are responsible to attend these bi weekly meetings and send at lease 3 days in advanced updated files of their coordination drawings to the Mechanical Contractor so the coordination drawings at the meeting are current. These meeting will routine until the coordination process is complete. If a MEP Contractor does not see fit to attend these meetings or if electronic updates of their coordination drawings are not sent to the mechanical contractor in a timely fashion a $500.00 penalty may be assessed and a credit change order issued to their contract. Please note that the coordination process is part of building the project. No additional compensation will be due for relocation of any MEP systems as part of this coordination process.

SECTION 011200-23A – SPECIFIC SCOPE OF WORK – MECHANICAL

SPECIFIC SCOPE – MECHANICAL:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE:

1. Include the cost of performance and payment bonds in the base bid.
2. This contractor is responsible for all fall protection and safety requirements associated with the roof work. When working from either lifts & harnesses, or tie-offs provided by this contractor, OSHA standards must be met and followed at all times.
3. Furnish and install mock-up(s) as required by the specifications. Mock-up will not only be used to approve material but to establish the quality for the entire project. Any area not conforming to the mock-up will be reworked. In addition, the architect will inspect the first sections of completed work to develop a standard for the rest of the work.
4. Provide one-year warranty all material and installation. Also provide all supplier and/or manufacturer warranties as specified.
5. Provide fire-stopping sealant at all penetrations in fire rated walls, floors, and ceilings.
6. Furnish access panels necessary for all concealed valves or devices. Access doors to be installed by the drywall contractor. Avoid locating access doors in ceilings.
7. Furnish and install all architectural and HVAC louvers and vents. Refer to mechanical and architectural drawings for all louver locations. Louvers in doors are by others. Furnish and install blank off plates on unused louver areas if required by the architect.
8. Provide exhaust ductwork for spray booths.
9. Provide final utility connections to food service equipment. This contractor is responsible for all plumbing and HVAC connections including water, gas, sanitary, vent, exhaust, duct, drainage, condensate, traps, hoses, isolation valves, insulation, tags, hangers, supports, stands, escutcheons, etc. and including the final assembly of plumbing and HVAC related utility connections such as strainers, traps, floats, pans, collars, sensors, regulators, hoses, etc. Include installation only of floor trough and drain troughs furnished by others.
10. Reference 12345-2.1 and 2.8 Laboratory casework and fume hoods. Furnished and delivered, packed in boxes for installation by the mechanical contractor, laboratory sinks, cup sinks or drains, drain troughs, overflows and sink outlets with integral tailpieces, which occur above the floor, and where these items are part of the equipment listed in the specifications, equipment schedules or shown on the drawings. Integral tailpieces when required shall be in accordance with

the manufacturer's standards. All tailpieces be furnished less the couplings required to connect them to the drain piping system.

11. Provide all permitting and fees other than the Building Permit.
12. Perform a hydraulic test of all systems. The tests will be witnessed by Whiting-Turner. Forward all leak and pressure testing certification and documentation to W-T. Have tests witnessed as required.
13. Responsible for field verifying all clearances.
14. **MEP COORDINATION:**

    Each MEP Contractor shall be responsible to take part in the MEP coordination process. This coordination process will be done using two dimensional drawings. The Mechanical Contractor shall be responsible to take the lead in this process, overlay all other MEP trade coordination drawings and create a totally coordinated set of MEP shop drawings that the MEP systems can be installed to. In addition as-built modifications shall also be the responsibility of the Mechanical Contractor at the completion of the project. Once all as-built modifications are made the Mechanical Contractor shall provide drawings in both hard copy and electronic format as part of the O&M documentation.

    The process will be as follows: Before any coordination drawings are started a coordination meeting will be held. All MEP contractors will be required to attend. At the initial meeting the items to be discussed will be as follows.

    #1 – Electronic software to be used
    #2 – Scale to be used
    #3 – Assignments of layers to each MEP Contractor
    #4 – Sequence of design based on construction sequence through the building

    After the initial meeting all MEP Contractors will be given a copy of the project backgrounds. It will be the Mechanical Contractors responsibility to make sure these backgrounds are imported onto the coordination drawings. In addition steel shop drawings will also be distributed for use in the coordination process. Each MEP Contractor will create their coordination drawings based on the layer or elevation given to then in the initial coordination meeting. If any part of their work extends out of the designated layer they are to notify both the Construction Manager and the Mechanical Contractor of this potential interference. Once notified the Mechanical Contractor will research if the potential interference impacts other systems and will present possible solutions at bi weekly coordination meeting. At the bi weekly coordination meetings these potential interferences and solutions will be discussed and the least cost solution will be utilized. All MEP Contractors are responsible to attend these bi weekly meetings and send at least 3 days in advanced updated files of their coordination drawings to the Mechanical Contractor so the coordination drawings at the meeting are current. These meeting will continue until the coordination process is complete. If a MEP Contractor does not see fit to attend these meetings or if electronic updates of their coordination drawings are not sent to the mechanical contractor in a timely fashion a $500.00 penalty may be assessed and a credit change order issued to their contract. Please note that the coordination process is part of building the project. No additional compensation will be due for relocation of any MEP systems as part of this coordination process.
15. Provide vibration isolation devices and thrust restraints for all equipment as required.
16. All 120 volt wiring is by the electrical contractor. Specifically, this includes 120 volt duct mounted dampers, 120 volt VAV actuators, transformers, condensate pumps, residential appliances, VFD's, ATC control panel and kitchen hood extinguishers. All mechanically specific low voltage control, control transformers and interlocks is by this contractor. Specifically, this includes smoke detector interlock at AHU's, split system control wires, 24 volt actuators, cooling tower vibration switches, building automation system, flow meters and electronic metering devices. If there is any discrepancy

in the division of scope as it pertains to starters, disconnects, fuses, shunt trips, starter heaters, etc., bidders must submit pre-bid requests for information in order to clarify the division of scope.

17. Provide all cutting, patching, core drilling, sleeves, and penetrations as required. Sleeve all penetrations at all walls and floors. Provide sleeves to the masonry contractor as required. Any penetrations through finished walls will be the responsibility of this contractor to repair.
18. Provide and set sleeves in the foundation wall for the incoming utilities. Coordinate the size of the sleeves to accommodate link seals. The site contractor owns installing, flushing and testing the incoming services to a point five feet from the outside of the building. This contractor owns all below slab piping to a point 5' outside the building wall. Final connections of utilities shall be by this contractor.
19. Provide chrome escutcheons at all exposed pipe penetrations.
20. Provide all mechanical and plumbing pipe insulation and all duct insulation per specifications. Include all insulation at refrigerant lines. Include all ADA, insulated lavatory traps
21. Furnish and install hot water heaters, expansion tanks, and circulation pumps as shown.
22. Perform flushing, testing and sterilization of the potable water systems. Forward reports to W-T.
23. Provide complete, new plumbing system to include all domestic water piping, valves, storm water piping and fixtures, roof drains, floor drains, interior trench drains, vent piping, gas piping, plumbing fixtures, hot water heaters, expansion tanks, circulator pumps, condensate pumps, mixing valves, acid neutralization tank, gas regulators, etc.
24. Furnish and install all exterior building mounted hose bibs.
25. Coordinate installation of gas piping with the local utility company. Connect to the meter. Sleeve or core drill as necessary for the installation. Furnish and install all supports required for gas piping systems installed under this contract. Gas meter is provided by the gas company. Furnish and install all gas regulator relief valves and vents. Perform all penetrations thru roof for new gas lines. Coordinate with roofer. Furnish and install all pipe curbs, pipe supports, rubber mats, and blocking necessary to support the gas piping.
26. Furnish and install vent and drain valves at high and low points in piping.
27. Furnish and install all drains, drip lines, etc as required from equipment, ductwork, breaching, etc. In some cases, these necessary drain lines may not be shown in full detail on the drawings, but are noted as "run to nearest floor drain".
28. TEMPORARY WATER – Furnish, install, maintain, and remove the following designed to county, state, city, and OSHA requirements:
    A. Install the following temporary items as soon as possible. Assume a separate mobilization.
    B. Provide and maintain four hose bibs and four utility sinks with fixtures. Locations to be determined the field.
    C. Connect water service to temporary water lines installed by the site work contractor on the outside of the building underground or to the permanent service if installed. Assume the connection will be 50 feet outside of the building and below grade.
    D. Furnish and install temporary connections to the roof drains, connect to site storm piping.
29. Furnish and install all new batteries for the automatic flush valves at the end of the project.
30. Reference spec section15400-1.02.B.12 for copper vent tubing. Vent chiller blow out glands as well.
31. Reference drawing P-110 and spec section 15400-2.03.B, all occupied floor drains are type FD. All mechanical room floor drains are type FD-1.
32. Rainwater boots supplied and installed by mechanical contractor. Downspouts by others. Tie-in to storm water on the exterior of the building is by others.
33. Assist with the installation of ranges, range hoods, refrigerators, dishwashers, clothes washers, etc. Provide domestic water and sanitary connections as detailed on mechanical and plumbing drawings. Provide exhaust ducts for clothes dryers as detailed on mechanical and plumbing drawings.
34. Provide layout to other trades for all ductwork passing through masonry walls and floors. Coordinate elevations of lintels with other trades as required.

35. Furnish and install angles, sleeves, and fire caulk as required.
36. Furnish and install access doors in ductwork as required by code and SMACNA to allow access to fire dampers, etc.
37. TEMPORARY HEATING / COOLING – Furnish, install, maintain, and remove the following designed to county, state, city, OSHA standards:
    A. The new HVAC equipment will be used to condition the building only as required for specific needs of various finish trades. Only operate the equipment necessary to keep the building conditioned. This equipment needs to be installed and operational as soon as practical.
    B. The Electrical Contractor will provide and maintain the electrical requirements for this equipment.
    C. Maintain this temporary functioning of equipment until such time when the permanent system is running, controlled and balanced. Maintain minimum temperature and humidity as directed by the CM.
    D. Furnish and install temporary ductwork if necessary to reach remote areas.
    E. Filters are to be changed a minimum of once per month by the mechanical contractor, or more often if deemed necessary by the mechanical contractor to maintain warranties. Utilize appropriate type of filter to maintain the warranty. Utility costs are paid by the owner.
38. All warranties for equipment that is used prior to final completion for construction heating or cooling are to be extended to provide the owner with the full term of the specified warranty from the date of final completion.
39. All equipment that is used prior to final completion for construction heating or cooling are to be serviced, inspected, and cleaned prior to final completion and acceptance by the owner.
40. Furnish and install new filters in the equipment prior to occupancy and prior to FINAL Testing and Balancing.
41. Furnish and install all necessary items to complete the new HVAC systems. Provide ductwork, filters, access doors, dampers, piping, equipment, fans, grilles, registers, diffusers, identification devices, labels and tags, insulation, and any other item necessary to complete the work. Duct offsets required due to structure must be included. Provide aluminum and stainless steel ductwork in areas noted.
42. Furnish and install all return air grilles located in walls, ceilings, etc. Coordinate necessary rough opening framing with the masonry or partitions contractors.
43. All duct is to be delivered to the project clean and remain clean until installed. Immediately after installation or at the end of the day, seal the ends of all ducts. The duct system will be inspected for cleanliness regularly. If the system is found to be dirty it will be the mechanical contractor's responsibility to clean the duct.
44. Furnish and install a complete automatic temperature control system including all wiring. Furnish and install wiring in conduit if specified. Labels and tag all devices. Perform start-up and commissioning labor & equipment. Patch piping or duct insulation or any other product damaged by the controls work. Perform owner training of all new equipment and systems. Videotape this session and turn over to the owner. Furnish and install any computers and associated software. Furnish and install all motor operated dampers control valves, control wiring and thermostats.
45. Coordinate with Testing and Balancing Contractor to conduct a pre-construction review of the sheet metal shop drawings to review the location of balancing dampers.
46. Change sheaves and belts as directed by Testing & Balancing Contractor. Work with TAB to adjust dampers, VAV boxes, etc.
47. Coordinate with the electrical contractor the necessary shutdown of the HVAC units upon activation of the duct smoke detectors. Furnish and install the control wiring from the smoke detector to the starter / control panel. Terminate the wire on the starter and be present for testing with the electrical contractor.

48. Coordinate size, elevation and location of duct support beams with the steel contractor. Reference S-417 Detail 9.
49. Concrete housekeeping pads for mechanical and plumbing equipment are by this contractor.
50. Coordinate size, layout and elevation of cooling tower steel (provided by others).
51. Install all duct smoke and heat detectors (including sampling tubes) provided by the electrical contractor. Coordinate with the electrical contractor.
52. Provide range hoods and exhaust ductwork. Fire protection system by others.
53. Provide emergency gas solenoid valves as shown.
54. The mechanical contractor is to provide all motor starters and disconnects scheduled to be supplied with the new equipment.
55. Verify that the electrical requirements for all mechanical equipment matches the electrical drawings.
56. Furnish and install any power control units and/or disconnect switches and VFD's specified to be built in or pre-wired to the equipment. Refer to mechanical equipment schedules for additional info.
57. Furnish and install all garbage disposals.
58. Individual trade contractors are responsible for coordinating hanger method with truss manufacturer.
59. Furnish mechanical equipment weights for truss manufacturer.
60. This contractor is solely responsible for his own scaffold, rigging, ladders, hoists, security and storage.
61. In wall or above ceiling insulation must be reinstalled and/or replaced by this subcontractor when disturbed during the installation of work associated with this contract.
62. Provide 5 days notice prior to shutdown of any system on site or within the building.
63. Plywood covered floor penetrations must be fastened to the slab.
64. Coordinate all power requirements with the electrician.
65. Furnish single point of electrical connection for all new equipment
66. Remove all stickers from new equipment prior to owner acceptance.
67. Provide all supports (in wall, above ceilings, concealed or exposed, etc.) specified or not for the proper installation for the work described herein. This included equipment supports, metal or wood blocking, miscellaneous steel framed supports, etc. Coordinate with carpenter for any in-wall blocking required for support.
68. Touch-up factory applied finishes at the completion of the project.
69. Provide final cleaning of the interior of all supplied equipment equal to vacuum and wiping with a damp cloth.
70. This contractor is to cut the metal deck as necessary for the installation of the ductwork, equipment, or pipe penetrations thru the roof.
71. Any floor penetration larger than four square inches must be identified, protected and if at all possible, formed in place with a styrofoam block out. Any floor penetration larger than one square foot must be reinforced with wire mesh by the concrete contractor. Any floor penetration larger than two feet per side requires rebar reinforcing by the concrete contractor. Develop a detail matrix of floor openings identifying size, service and an identifying number. Use styrofoam block outs for all cast in place floor openings. Use wood screw to secure them to the plywood form. Witness the pour in order to protect the opening. This includes pours that may be made on Saturday. After the pour, use the matrix to record that every blockout has been removed as soon as possible and is accounted for. Every single opening larger than four square inches is required to have 3/4" plywood cover, fastened to the deck and labeled "Fall Hazard. Do not remove. Opening number XXX". CM is responsible for field quality control that openings remain protected. Protective covers can not be removed without CM initials on the matrix.
72. Jobiste office trailers and storage trailers may be required to be relocated during the course of the project as needed for the progression of the work. Jobsite trailers and offices must be maintained in a neat, orderly, respectful, professional and safe fashion, both inside and out.
73. Provide the grease traps and piping five feet (5') outside of the furthest trap from the building. Work must be coordinated with the Sitework Contractor.

74. Furnish and install steel bollards at gas meter. Painting by others.
75. Furnish and install garbage disposals. Electrical connection by others.
76. Furnish and install clothes washer hook-up boxes.
77. Provide all drain-quenching as detailed, 5/P-100.
78. Furnish and install eye-wash stations as shown.
79. Provide all roof supports for condensate piping.
80. Provide complete acoustical accessory packages for all mechanical equipment as specified and as indicated on the drawings.

SECTION 011200-23B – SPECIFIC SCOPE OF WORK – TESTING & BALANCING

SPECIFIC SCOPE – TESTING & BALANCING:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
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NARRATIVE:

1. Testing, adjusting and balancing as described by Specifications. The scope of work also includes mechanical submittal review, progress inspections, warranty, vibration measurement, smoke control testing, indoor air quality measurement, witnessing of duct leakage tests and reporting.
2. Include the cost of performance and payment bonds in the base bid.
3. Provide a one year warranty, longer when required by specification.
4. If Scope document contradicts Specification, Specification supercedes.
5. This contractor is to perform all work related to specification section 15990, testing, adjusting and balancing (TAB).
6. Perform a pre-construction review of the sheet metal shop drawings to review the location of balancing dampers.
7. Perform all work as designed by the mechanical engineer.
8. Change sheaves and belts as required. Include six sheave changes (labor only) in your base bid. Reference 15A-HVAC Scope of Work.
9. Work with the mechanical contractor to adjust dampers, VAV boxes, leak testing, etc.
10. Submit testing & balancing reports two weeks after completion of the work.
11. This contractor is solely responsible for his own scaffold, rigging, ladders, hoists, security and storage.
12. In wall or above ceiling insulation must be reinstalled and/or replaced by this subcontractor when disturbed during the installation of work associated with this contract.
13. Provide 5 days notice prior to shutdown of any system on site or within the building.
14. Penetrations through walls that have already been constructed and/or finished will be the responsibility of this contractor to repair.
15. Incorporate the HVAC Piping, Equipment and Plumbing Scope of Work and Specification Division 15 as a secondary requirement for general scope, basic materials and coordination.
16. Incorporate the Electrical Scope of Work and Specification Division 16 as a secondary requirement for general scope, basic materials and coordination.

17. All of the building's equipment will be utilized during construction. All guarantees and warranties must be extended as needed so as not to diminish those required by the construction documents for the Owner at final acceptance.

SECTION 011200-26A – SPECIFIC SCOPE OF WORK – ELECTRICAL

SPECIFIC SCOPE – ELECTRICAL:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
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Volume 4: Divisions 26 – 33

TEMPORARY ELECTRIC

1. Furnish, install, maintain, and remove temporary power and lighting service designed to county, state, city, OSHA and NEC standards
2. Assume a separate mobilization to establish temporary service to the building pad site.
3. Existing metered service is currently installed near the building pad site.
4. Extend an underground or aerial power line from the meter to a new 8'x8' wood shed furnished and delivered by this contractor. The shed will be located as close to the building footprint as is practical.
5. In the shed, install all of the necessary transformers, panels, etc. Install 8 gfi receptacles on 4 circuits in the shed.
6. Furnish and install all "nearly new" electrical equipment to accomplish this work.
7. Contractor will be responsible for maintaining, repairing, and installing all temporary lights, panels, and receptacles per CM direction. It is the CM's intent to power permanent panels as quickly as possible to allow temporary power to be demolished and all power to be distributed through the permanent panels. Temporary power will need to be distributed to ensure all trades can work with cords no longer then 100 ft. Lighting will be needed through out the project interior and exterior and will need to be reworked as the job progresses. Temporary lighting outdoors will be of the halogen type and will surround the entire building. Interior lighting will be supported and checked daily for any repairs that are needed. Removal of ALL temporary electrical equipment will be the responsibility of this contractor. All temporary will be no less then OSHA requirements.
8. Provide temporary lighting on to meet OSHA standards. Light circuits are to be separate from power circuits. The lighting is to be controlled by labeled breakers or switches and by north and south portions of the building. Relocate the temporary lights to coordinate with the installation of partitions so that every room including closets or small storage areas have a minimum of one light.
9. When directed by the Construction Manager, remove the existing temporary electrical services that were installed by this contractor.

NARRATIVE:

1. Include cost for 100% payment and performance bond in the base bid.

2. This contractor is required to review all drawings including Structural, Architectural Mechanical, Electrical, Plumbing, Fire Protection, and Food service prior to mobilization to site to identify all items that need to be coordinated with electrical work. This contractor will be responsible to cut in items that were overlooked.
3. A field superintendent is required to be on site at all times.
4. Compliance with local noise restrictions.
5. MSDS sheets for all materials must be submitted prior to start of work.
6. A project manager will be assigned to the DSD and will be required to process all paperwork associated with this project. He will also be required to attend all progress and coordination meetings.
7. Submit shop drawings, submittals, and mock-ups per the specifications.
8. Provide guarantees and warrantees as specified.
9. Perform engineering calculations/PE certifications as specified.
10. This contractor shall test in accordance with the contract documents and will pre-test per CM's requirements for no additional costs.
11. This contractor shall pay particular attention to all acoustical details and will provide all material needed to meet contract documents. This cost will be included in the bid.
12. Furnish and install generator, transformers and switchgear as shown on the contract documents.
13. Furnish and install all underground utilities including, but not limited to, conduit, wire, concrete, rebar, handholes, etc required for a complete system. This contractor is responsible for ALL underground raceways, including those feeding the Residence Hall. Raceways for future Residence Hall to stub-out of manholes 10' as shown on E-101.
14. This contractor is responsible for all excavation and backfill required for installation of the underground utilities. This includes additional haul off and backfill necessary. This contractor is also required to meet all compaction requirements within and outside of the building perimeter.
15. All contractors providing underground utilities will be required to return sub-grade material and compaction to its original state as to when trenching began.
16. Furnish and install select backfill for all utility trenches. On site soils CANNOT be used as backfill.
17. Coordinate incoming service with the electric company. Metering cubicle is by the power company. Install conduits & concrete beneath roadways & drives as shown.
18. Furnish and install all site lighting poles and fixtures including, but not limited to, anchor bolts, grounding, conduit, wire, etc for a complete system. Concrete pole bases for SL1 and SL2 fixutres only are existing. Raceways only between these pole bases are existing. Assume 100' of raceway from the site lighting panel to connect to raceway that is currently installed. All concrete bases, anchor bolts, excavation and raceway for SB fixtures are to be by this contractor.
19. Contractor shall be responsible for any boxes and conduit required in poured walls, floors, or ceilings and will coordinate work appropriately.
20. This Contractor shall hard pipe all electrical wire through exposed ceilings, including but not limited to electrical closets.
21. Provide all interior and exterior concrete pads required for equipment provided by this contractor
22. All empty conduit raceways will require pull strings.
23. Furnish and install all disconnects for the wheel chair lifts.
24. Install only any transformers required for the fixed seating aisle lighting. Transformers will be provided by the Fixed Seating Contractor, 12A.
25. All under floor, underground raceways, concrete encased raceways, handholes, saw cutting, core drilling, patching and coordination with the seating and aisle lighting will be the responsibility of this contractor.
26. Contractor shall coordinate and install all work necessary for required ground ring and associated equipment.
27. Provide complete lightning protection system with all necessary labels, permits and inspections.
28. Contractor will have inspections by local jurisdictions and authorities scheduled as to meet the CM's schedule.

29. Contractor will provide all tele/data, conduit, boxes, cable tray and pull strings. Cabling will be provided by others. Coordinate conduit size and back boxes with tele/data vendor.
30. All personnel will be required to attend a safety orientation held at Whiting-Turner's field office located on site.
31. Provide As-Built drawings, O & M manuals, commissioning tests and all other required closeout documentation. One copy of Record Drawings (As-Builts) must be in reproducible form. As-Built drawings must be kept up-to-date during the course of the project. WT reserves the right to check As-Builts each month as a prerequisite for payment.
32. Additional reinforcements/supports for this work which is not detailed on the architectural and structural drawings where necessary is the responsibility of this contractor.
33. Any circuits needed which may or may not be depicted on the drawings.
34. Cable tray height requirements will be the responsibility of this contractor to coordinate during the coordinated drawing meeting with the HVAC contractor.
35. Provide a complete clock system as specified.
36. Provide complete fire alarm system as specified.
37. Any and all electrical code requirements for fire alarm and electrical systems WHETHER THEY ARE ON THE DRAWINGS OR NOT will be the responsibility of this contractor.
38. Contractor will provide CM with any and all schedules needed on his own work. Detail of the schedule will be that of the CM's discretion.
39. Certain areas of the building may require work to be accomplished in an urgent pace and will be the responsibility of this contractor to provide materials and labor for those areas as needed. Working in multiple areas at the same time will be necessary.
40. Coordinate all conduit sizes and back boxes with tele/data contractor. This contractor is required to furnish and install all tele/data conduits and back boxes. Pull strings are to be installed in empty conduits.
41. Include any electric needed (120 volts or higher) to fire and smoke or combination dampers.
42. Provide all grounding busbars and associated hardware located on the drawings.
43. All exothermic welds required for grounding will be by this contractor.
44. Furnish and install bonding of all conduits containing A/V system wiring to the electrical safety ground.
45. Control panels supplied by other trades will be their responsibility to install. Power for control panels will be the responsibility of **this** contractor. Control wiring will be provided by others.
46. Provide conduit, wire and terminations as needed to the BAS system from the lighting contactors.
47. All conduit, wire and terminations of the kitchen utility distribution by this contractor.
48. Provide final connections to all kitchen equipment. Provide all connections that are scheduled to be hard-wired. For connections that are scheduled to be pug-in, this contractor to provide and connect cords.
49. Power and low-voltage wiring for complete operation of overhead doors and roll-up grilles.
50. Provide empty conduits from cash register locations to food service offices. (1" conduit)
51. All associated wiring required to the walk-in coolers and freezers including, but not limited to, t-stats to solenoid valves, additional lights, receptacles, alarms, etc.
52. All penetrations to be fire and/or acoustical caulked.
53. Provide floor box for forestage A/V equipment.
54. Lightning protection and all pitch boxes for roof penetrations.
55. Provide complete intercom, public address, clock, message board systems.
56. This contractor will be responsible for the security and card access system as indicated in the drawings and specifications.
57. Provide all grounding required at performance lighting and sound equipment.
58. Provide conduit, wire and two (2) flood type light fixtures in the approximate location of the monument sign shown on C1.12.
59. Provide a conduit and wire size matrix to CM/Owner for performance lighting system.

60. Provide complete performance lighting system as specified and shown on the drawings.
61. All custom back boxes and floor boxes will be the responsibility of this contractor.
62. Provide all dimming panels, racks and control accessories for the performance lighting system.
63. This contractor will be responsible for all equipment listed in specification section 11080 and 16580.
64. This contractor will ensure that all deliveries will fit into the CM's schedules. If material needs to be stored off site it will be the responsibility of this contractor.
65. Any testing, which is needed after hours, will be the responsibility of this contractor.
66. All testing will be coordinated with other trades as to not affect their contract requirements.
67. Furnish and Install a complete, engineered, functional, and tested Performance Audio System as outlined in drawings, specifications, contract documents and in compliance with all applicable codes.
68. Provide a conduit and wire size matrix to the CM/Owner for the performance sound systems.
69. Coordination with other trades as required.
70. Miscellaneous equipment not shown on drawings or specifications that is required for a complete performance sound system shall be included.
71. Furnish and install any additional items, including but not limited to, hardware, transformers, line / distribution amplifiers, and all others devices required for a complete installation, interface, isolation or gain structure.
72. Perform all initial adjustments and verification tests and submit a verification test report as indicated and required.
73. Provide all material, equipment, and labor as indicated and required in all acceptance testing.
74. Provide all additional and final adjustments as required from results of acceptance testing.
75. Furnish and install all Performance Audio Systems equipment, wire, devices and cabling, including terminations.
76. This contractor to provide all power and wiring to all motorized projection screens. This contractor to provide 120V power and low voltage wiring to control switches to provide a complete operating screen. Screens and switches shall be provided by others.
77. Provide installation criteria for device boxes, floor boxes, and device conduits.
78. Furnish and install all audio equipment racks and devices.
79. Furnish and install all mounting hardware, support cables, brackets, frames, structures, winch, etc. as indicated and required for a complete and functional performance sound system.
80. Furnish and install all custom fabricated items as indicated and required for a complete and functional system.
81. Furnish and install all rigging of audio equipment as required.
82. Spare wire runs equivalent to 10% of those in use, shall be pulled to each termination point.
83. All labeling, identification plates, tagging, wire markers, etc.
84. All rings, lugs, etc. required to complete all terminations.
85. Provide all spare terminal blocks as required.
86. Furnish and install all audio systems grounding, isolated grounding, shielding, and isolations as indicated and required for a complete and functional system.
87. All after hour testing required will be the responsibility of this contractor and included in their bid. All testing will be coordinated as to not affect other trades.
88. Contractor shall work with the installers of conduit and pull strings to ensure that locations and sizes are coordinated.
89. Work with other trades to ensure that the acoustical requirements are followed closely.
90. Representative of this contractor will be on site at all times to coordinate with other trades.
91. This contractor shall install all panels, racks, projectors, interactive white boards, message boards, electric projection screens, etc. All rigging needed for which shall be by this contractor.
92. This contractor will be responsible for any grounding needed that is not shown on the drawings for this system.
93. Provide any and all fiber terminations and cabling associated with the performance sound and performance lighting systems.

94. This contractor will furnish and install all racks required for installations.
95. This contractor will store any and all equipment off site until areas are ready for installation of which.
96. All work will be coordinated with the CM's schedule.
97. Provide all equipment, wire and terminations associated with the classroom amplification system.
98. Provide all equipment, wire, and terminations associated with intercom/public address clock message boards.
99. All sound testing will take place after hours or on weekend when no other contractors or electrical equipment is affected.
100. **MEP COORDINATION:**

Each MEP Contractor shall be responsible to take part in the MEP coordination process. This coordination process will be done using two dimensional drawings. The Mechanical Contractor shall be responsible to take the lead in this process, overlay all other MEP trade coordination drawings and create a totally coordinated set of MEP shop drawings that the MEP systems can be installed to. In addition as-built modifications shall also be the responsibility of the Mechanical Contractor at the completion of the project. Once all as built modifications are made the Mechanical Contractor shall provide drawings in both hard copy and electronic format as part of the O&M documentation.

The process will be as follows: Before any coordination drawings are started a coordination meeting will be held. All MEP contractors will be required to attend. At the initial meeting the items to be discussed will be as follows.

#1 – Electronic software to be used
#2 – Scale to be used
#3 – Assignments of layers to each MEP Contractor
#4 – Sequence of design based on construction sequence through the building

After the initial meeting all MEP Contractors will be given a copy of the project backgrounds. It will be the Mechanical Contractors responsibility to make sure these backgrounds are imported onto the coordination drawings. In addition steel shop drawings will also be distributed for use in the coordination process. Each MEP Contractor will create their coordination drawings based on the layer or elevation given to then in the initial coordination meeting. If any part of their work extends out of the designated layer they are to notify both the Construction Manager and the Mechanical Contractor of this potential interference. Once notified the Mechanical Contractor will research if the potential interference impacts other systems and will present possible solutions at bi weekly coordination meeting. At the bi weekly coordination meetings these potential interferences and solutions will be discussed and the least cost solution will be utilized. All MEP Contractors are responsible to attend these bi weekly meetings and send at lease 3 days in advanced updated files of their coordination drawings to the Mechanical Contractor so the coordination drawings at the meeting are current. These meeting will routine until the coordination process is complete. If a MEP Contractor does not see fit to attend these meetings or if electronic updates of their coordination drawings are not sent to the mechanical contractor in a timely fashion a $500.00 penalty may be assessed and a credit change order issued to their contract. Please note that the coordination process is part of building the project. No additional compensation will be due for relocation of any MEP systems as part of this coordination process.

SECTION 011200-31A – SPECIFIC SCOPE OF WORK – SITEWORK

SPECIFIC SCOPE – SITEWORK:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
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NARRATIVE

1. Provide a performance and payment bond for this work.
2. Arrange for and coordinate Miss Utility and other applicable entities in the identification and locating of any existing utilities. Test pit by hand digging the locations where new utilities cross over any existing utilities.
3. The Construction Manager will provide two datum points, one grid line in the north-south direction and one grid line in the east-west direction. Provide all other engineering and layout for the work described herein.
4. Furnish, install, maintain and remove all required erosion and sediment control mechanisms and devices as indicated, specified or needed.
5. Provide maintain and remove stabilized entrance(s) as required to accomplish the work described herein.
6. The Sitework Contractor is to begin the installation of all sediment and erosion control measures within 10 business days of 'Notice to Proceed'. This is including but not limited to all silt fence, temporary berms, all temporary and permanent seeding as specified, rip rap, and temporary basins.
7. Perform miscellaneous site demolition activities such as removal of existing curb, storm water systems, utilities, etc. that is required. Include sawcutting where necessary.
8. The Sitework Contractor is responsible to install the site utilities (except gas & electric) including all domestic water systems, fire line systems, storm systems, and sanitary systems to within five feet (5') of the building line unless otherwise noted. Final connections are by the building plumbing contractor if the site laterals are in place prior to building plumbing unless otherwise noted. In any instance where the Sitework Contractor is installing site laterals after the building lateral is already stubbed out of the building – the final connection is by the Sitework Contractor. In either case, the Sitework Contractor is responsible to have all site utility lines tested (pressure / water tested as required), cleaned, sanitized, inspected and approved prior to connection to the building line. Any pressure /water testing required after the building lines are tied in are the responsibility of the Sitework Contractor.

9. Provide sanitary sewer system including but not limited to, excavation, backfill, haul off of excess material, inspection and testing, pipe id tape, manholes, piping, tie-into existing, etc. required to furnish a complete working system to within five feet (5') of the building. Provide new water lines including, but not limited to, all domestic and fire lines, meter pits, pipe, fittings, taps, etc. required to furnish a complete working system to within five feet (5') of the building.
10. Furnish and install new fire hydrants and associated piping and backfill. Tie-in to water lines. Provide test reports. Insure the fire hydrant installation fully complies with all requirements of all authorities having jurisdiction.
11. Review the plumbing drawings for sanitary and storm lines connecting to your piping. Furnish and install the necessary adapters, reducers, fittings, etc. to piping installed by the Sitework Contractor to connect to the piping installed by other trades.
12. Furnish and install select backfill for all utility trenches. On site soils CANNOT be used as backfill.
13. Survey the new detention pond as soon as it is complete and provide all necessary drawings and/or documents.
14. Coordinate a groundbreaking ceremony with the CM and the owner. Allow for Four hours during the workday. Allow for photographs of the owner with your equipment.
15. Forward submittals of all reference standards listing in the specs such as DelDOT or New Castle County requirements.
16. This contractor is responsible to install all Storm water management measures including but not limited to all filter strips, level spreaders, catch basins, trench drains, concrete pipe & concrete cradles, hdpe pipe, underdrains, detention basins, ponds, clay-core trenches, swales, outlet/inlet structures, tie-ins to existing, pipe id tape where detailed, manholes, cleanouts, piping outfall riprap, etc, and roof drainage piping (downspout boots are by others). Include all excavation, backfill, bedding material and haul off of excess material required to furnish and completing working system to within five feet (5') of the building.
17. Furnish and install all Underground Retention System – Storm Tech system including, but not limited to, Storm Tech chambers, inspection ports and accessories, all associated piping, outfall and overflow structures, excavation, geo-textiles and stone. Installation must conform to current StormTech methods. StormTech systems cannot be connected until site is completely stabilized.
18. Cleanout retention system at job completion. Cleaning to be used as training for the Owner
19. This contractor is responsible to construct the new detention basin including, but not limited to, earthwork, underdrain, riprap, outfall structures, skimmers and other materials or temporary measures required. All temporary materials must be removed upon completion of construction.
20. This contractor is responsible for stabilizing the detention basin immediately upon completion. Temporary measures must be used if the weather does not allow for permanent stabilization. DNREC requirements for stabilization must be followed.
21. All finish grades between contract areas and the limits of construction need to be properly blended into to allow smooth transitions.
22. This contractor is responsible to install temporary (driven post) construction fence around the jobsite perimeter as noted on the site drawings. Include an allowance for four (4) twenty foot (20') gates and four (4) four foot (4') man gates.
23. This contractor is responsible to review complete geotechnical report and include all costs associated with the existing site soil conditions including fill requirements and ground water impacts. Management of site water conditions should not adversely impact other site areas and should never impact areas outside the site limits.
24. Provide during the start of the project a temporary drive path from the contract drawing construction entrance to the west entrance/exit for the school. Remove and replace at the end of the project the existing curb, sidewalks, and landscaping disturbed during construction. A 175'x 175' laydown area is to be constructed over the soccer field for the duration of the project. Construct a haul road from the construction entrance to the laydown area and to the building pad.

This area is to be graded, then have a layer of stabilization fabric and 6" of stone to allow other trades access to the building. Curbing and base course of paving to follow to completely stabilize the roadway. The sitework contractor is to allow the necessary cost to maintain, refresh, regrade, and partially reinstall the stone as necessary prior to installation of the base course. It is the responsibility of this contractor to remove and restore the laydown area when it is no longer required.

25. This contractor to perform all site clearing and grubbing and removal of all materials. Investigate the existing site and removal all materials that will impact the successful installation and completion of the new utilities, school building and residence hall.
26. Protect and/or avoid all existing underground utility lines. Any damage to existing utilities must be repaired/replaced by this contractor.
27. The following items are not in this contract: Bicycle rack, flagpole, trash receptacles and monument sign. However, this contractor will be responsible to install any inserts needed for installation of the above items. Inserts to be provided by others.
28. Excess excavated material must be disposed of in a legal manner. Submit copies of disposal receipts to construction manager for record purposes.
29. Provide all site preparation, earthwork, site excavation, filling and grading, including but not limited to, disposal of excess material in a legal manner, borrow materials from offsite location as needed, etc. to complete the work described herein.
30. Provide all site preparation, earthwork, etc. for soccer field on the north side of the project site.
31. This contract shall include preparation of the compacted building pads for the Main School to a sub-grade elevation nine inches (9") below finished floor slab elevation. Provide proof rolling of these areas. Structural fill for both buildings should extend a minimum five feet (5') outside the building face unless otherwise noted on the drawings to meet the required grades. This contractor is responsible to have the building pad accepted by the owner's geotechnical engineer & complete all required work necessary to obtain acceptance.
32. Provide all dewatering necessary for the installation of all work associated with this contract. This includes all possible dewatering due to groundwater or rainwater. Dewatering measures are not to be removed without direct approval of Whiting-Turner Contracting Company.
33. Provide the backfill of the building perimeter after the concrete and masonry foundation work (including any below grade waterproofing) is complete.
34. Furnish, install, maintain and remove at a minimum temporary six (6) mil reinforced polyethylene plastic (or as specified on drawings or as required) cover over stockpiled backfill material. This contractor is responsible for maintaining and keeping dry any soil that they plan to reuse for fill. Extra work will not be accepted for soil that was suitable, but becomes unsuitable due to improper protection or maintenance.
35. The Sitework Contractor shall provide all site concrete from the building line out; including but not limited to grading, proof rolling, sub-base, expansion joints, expansion joint caulking / fillers, any required sawcutting, sidewalks, curb and gutter, parking lot islands, site steps (precast or cast-in-place), landings and stairs and. Install site concrete in strict adherence to ADA code. The Sitework Contractor is responsible to repair all ADA defects caused by faulty workmanship at no cost to the owner.
36. Provide concrete sidewalks including but not limited to layout, grading, proofrolling, gravel sub-base, expansion and construction control joint, formwork, etc. Furnish as specified.
37. The Sitework Contractor is responsible to hire a surveyor for all site layout and to provide furnished survey dimensions as part of the record drawings submission.
38. The Sitework Contractor is responsible for the following site concrete items including, but not limited to:
    - Sidewalks including main entrance concrete plaza and reinforced concrete walks
    - Curbs (standard & depressed)
    - Handicap ramps

- Concrete footings for flagpoles and monument sign.
- Dumpster and transformer pads

39. The masonry dumpster enclosure is by others. The necessary fill to subgrade beneath and around these areas after their installation is part of the sitework contractor's scope of work.
40. Provide basketball court as per the contract drawings. The necessary fill to subgrade beneath and around these areas after their installation is part of the sitework contractor's scope of work. This contractor is also responsible for the installation of any inserts required for the basketball equipment (inserts to be provided by others) and court striping.
41. Furnish and install concrete footings for the flagpoles and monument sign.
42. Furnish and install all truncated domes / detectable warning system at all handicap ramps and wherever else they are called out on the contract documents or required by code.
43. Furnish and install all bituminous concrete paving including, but not limited to, layout, grading, proofrolling, subbase, typar, base and surface course paving, tack coat, surface cleaning between paving operations, and saw cutting. The Sitework Contractor to coordinate and ensure that all transition elevations between paving and sidewalks and curbs are correct and that no ponding occurs, irrelevant to indicated lines and grades. All patch back of existing asphalt sidewalks disturbed by construction is part of this package.
44. Provide paving and base for the fire lane connecting the basketball court to the drive path as per contract details.
45. The Sitework Contractor to provide all parking lot striping including but not limited to Handicapped striping, crosswalks, parking spots, lettering, fire lane marking, etc.
46. The Sitework Contractor to furnish and install all parking bumpers as specified.
47. Provide, maintain, and remove all safety barricades, traffic controls, shoring, flagmen, etc. to comply with all safety practices required by OSHA, State of Delaware, New Castle County, The Whiting-Turner Contracting Company, any agency having jurisdiction, and as noted in the specifications in order to complete the work per this scope of work.
48. Provide and pay for continual cleaning of project and adjacent site streets and sidewalks of debris resulting from work within this contract. Include cost for street sweepers as needed to keep the areas clean <u>at a minimum of 1X per week until paving is complete</u> and <u>1X per month</u> for the duration of the project at the Construction Manager's discretion.
49. Provide full-time onsite superintendent to monitor and supervise work described herein. The project manager assigned to this work is required to visit the site a minimum of once a week. When the individual is onsite he must meet with Whiting-Turner superintendent and project manager.
50. Provide and install all site signage, including but not limited to handicap, fire lane, parking, stop, yield, etc., signs. Monument sign is by others.
51. Furnish and install all pipe bollards and associated footings and sleeves as required. The Sitework Contractor shall also be responsible to concrete fill and paint bollards. This includes both metal and concrete bollards.
52. Furnish and install all permanent chain link fencing, gates and privacy slats as shown on the contract drawings.
53. The Sitework Contractor to provide and pay for any required permits other than the building permit required for this work.
54. The Sitework Contractor is required to coordinate with other trades where required.
55. The Sitework Contractor is required to a provide the building mechanical contractor with site utility as-built drawings no later than two weeks after the completion of new site utility work
56. Topsoil and final grading of site, including swales, sediment basin, berms, filter strips and planters. Rake topsoil and remove all debris and stone. Final grade to be a smooth, mowable surface.

57. Provide temporary watering as required for all newly seeded areas until they are established, including but not limited to 2X per week after planting. Water to be obtained from an existing on site source or the new water service.
58. This contractor is responsible to provide all power required for the work within this contract. No power will be provided. If and when a temporary power source is provided, it will be the responsibility of this contractor to have a backup power source in case the temporary service goes out.

SECTION 011200-31B – SPECIFIC SCOPE OF WORK – LANDSCAPING

SPECIFIC SCOPE – LANDSCAPING:

A. The provisions outlined in the General Scope of Work shall apply to all items of this section. All work shall be in accordance with the schedule.

B. This work shall include all labor, supervision, material, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, and any other items or services necessary for and reasonably incidental to the proper execution and completion of the work, whether temporary or permanent, in accordance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein. All work shall be furnished and installed unless noted otherwise herein. The scope of work shall include but not be limited to the following specific scope of work:

SPECIFICATION SECTIONS
Prepared by Becker Morgan Group,
Volume 1: Divisions 00 – 01
Volume 2: Divisions 02 – 14
Volume 3: Divisions 21 – 23
Volume 4: Divisions 26 – 33

NARRATIVE

1. Provide a performance and payment bond for this work.
2. Plants and shrubs as required by the contract drawings
    a. Provide all planting accessories, including but not limited to plastic strapping, steel wire guys, hosing and stakes
    b. Removal of all stakes after two (2) growing seasons
3. Landscaping backfill and mulch as noted on the contract drawings
4. Straw and seed as required for permanent stabilization
    c. Include rototilling and blending of soil at filter strips prior to the installation of required vegetation
    d. Rake topsoil prior to the installation of straw and seed to provide a smooth, mowable surface
    e. Permanent seeding/vegetation is throughout the site, including but not limited to all swales, basins, planters, etc.
5. Contractor is responsible to restore all existing planters/areas to their original condition after installation of new plantings
6. Sweep and remove all debris and dirt from sidewalks and pavement upon completion of all seeding and planting