

Hickory Hills Elementary School Renovations and Modifications Detailed Work Package Descriptions

Prepared by: R.K. Redding Construction, Inc.
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Subcontractors & Vendors:

Please carefully review the following detailed work package description as pertaining to your selected bid package.

The work package descriptions are provided to assist subcontractors and vendors in the preparation of their bid by outlining the scope of work required under a particular package.

Your bid submittal will be expected to include the items described in your package as related to the project drawings, specifications and addenda.

Any exceptions, substitutions, qualifications or clarifications contrary to the bid documents may subject the bidder to disqualification.

After bids are received, these package descriptions will be used by RKR for scope review and bid confirmation to determine the level of bid responsiveness.

Subcontractors submitting work package base bids in excess of \$50,000.00 are required to provide a bid bond in the amount of 5% of the bid amount and are also to include the costs associated with providing a 100% Performance and Payment Bonds in the space provided on the Bid Form. Failure to provide this information may subject the bid to disqualification.

Please call me at 770-537-1845 should you have any questions regarding your package description, bid procedures or to notify us of any discrepancies.

Geoff Smith
Senior Project Manager, Vice President of Construction
R. K. Redding Construction, Inc.

Selective Site Demolition, Grading Modifications, and Storm & Downspout Modifications – Package 2-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: engineer's staking and lay-out work, BMP methods and practices as required, daily project clean-up, unloading and material handling, provisions for material storage and protection, cold/hot weather protection measures, shoring and trench excavation protection per OSHA compliance, product data and submittals, perform field measurements as required for approval and fabrication process, ensure proper fitting of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project documents including Selective Demolition section 024119(as pertains to the project site/exterior) – Trenching and Backfilling – Erosion and Sedimentation Control as shown on contract drawings, site selective demolition of site existing hardscapes including but not limited to trees, sidewalks, asphalt paving at the kitchen addition only, old flag poles, old drainage as indicated on the contract documents, planter boxes, benches, etc., tree save fencing as required, excavation and backfilling of existing grade to indicated finish grades, cut and fill with materials imported and/or exported to/from on-site, site modular retaining wall installation, mass grading, fill compaction, excavation for walks and pavements, fine grading walk sub-grades, walk backfilling and shaping, and maintenance as required, type C silt fencing and maintenance as required, dust control measures, temporary sediment basins and diversion channels and dikes, inlet sediment traps, check dams as required, erosion control matting and blankets, hay bales as required, disturbed area stabilization, respread topsoils prior to permanent grassing, temporary grassing and mulching and seeding, storm drain outlet protection, retrofit at outlet structure, rip-rap stone, cleaning and/or de-mucking of storm sewage systems and erosion control measures of any accumulated silt and debris until project completion, removal of erosion control measures at project completion and after establishment of permanent grasses, repair of defective or unacceptable materials as required, remove and replace work not in compliance with project specifications.

Related work provided and installed under other work packages include: asphalt paving demolition at parking lots and drives other than the kitchen area, asphalt paving & base stone, fine grading stone for asphalt paving, concrete paving and sidewalks, landscaping and irrigation systems, permanent grassing, sodding and mulching.

Related work provided and installed under this work package in condition for other work package: (none)

Selective Structure Demolition – Package 2-B

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project clean-up, materials and provisions for protection of existing finishes to remain, provide removal of all structures and building elements indicated to be demolished as outlined in the project drawings including Selective Demolition section 024116 and, at a minimum, the following existing building elements: removal of select building structure and structural components, exterior to the building only, walls etc., doors and frames, removal of existing exterior walls/partial walls as shown on the contract drawings, cooler and freezer existing exterior structures, removal of demolition debris from site, environmental fees, demolition permits, temporary dust and environmental partitions as required to separate work phase areas, repair of damaged adjacent materials to remain in place.

Related work demolished and removed under other work packages include: Any site demolitions specified to the site, any existing or old HVAC or Plumbing equipment/fixtures shall be demolished or removed under another work package.

Selective Interior Demolition – Package 2-C

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project clean-up, materials and provisions for protection of existing finishes to remain, provide removal of all structures and building elements indicated to be demolished as outlined in the project drawings including Selective Demolition section 024119 and, at a minimum, the following existing building elements: removal of select building structure and structural components interior to the buildings, walls etc., doors and frames. removal of existing interior wall finishes, floor tile, carpet, rubber base and glue, acoustical ceiling tile and grid framing, old insulation above ceilings, removal of light fixtures along with the ceiling grid after electrician disconnects lighting, removal of any obsolete low voltage wiring or devices per instruction of the contract documents and/or Owner, proper disposal of light fixtures and ballasts after electrician disconnects lights, removal of existing interior and exterior walls/partial walls as shown on the contract drawings, demolition of existing low voltage or electrical cabling on roof as directed by the Owner and/or contract documents, demolition of existing decorative high hat parapets, removal of demolition debris from site, environmental fees, demolition permits, temporary dust and environmental partitions as required to separate work phase areas, repair of damaged adjacent materials to remain in place.

Related work demolished and removed under other work packages include: Any site demolitions specified to the site, structure demolition to the exterior perimeter walls to the building, exterior cooler and freezer units, any existing or old HVAC or Plumbing equipment/fixtures shall be demolished or removed under another work package.

ALTERNATES FOR THIS PACKAGE:

- 1.) Alternate #2: BUILDING 2060, STORAGE ROOM FLOOR LVT REPLACEMENT AND PAINTING: For Storage Rooms E301C, E302C, E302D, and E304C, provide a price to demolish existing VCT, install new LVT and new paint for the rooms noted above.
Add \$ _____

Asphalt Paving Patchwork and Striping – Package 2-D

Supply and install materials and provide labor, equipment and supervision as required to complete the following: staking and lay-out work, BMP methods and practices as required, daily project clean-up, unloading and material handling, provisions for material storage and protection, cold/hot weather protection measures, product data and submittals, perform field measurements as required for approval and fabrication process, ensure proper fitting of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Base Courses section 321100 – Aggregate Base Courses section 321123 – Flexible Paving section 321200 – Pavement Markings section 321723, saw-cut existing pavement as required to install new work, provide traffic control signage and barrels and flagmen as required, fine grade and prepare subgrade soils for GAB stone base materials, place and compact GAB stone base course materials, provide loaded trucks for proof-rolling of prepared sub-base surfaces per testing agency and D.O.T. requirements, spray-apply a prime coat of cut-back asphalt over stone base course, place and compact type “B” asphalt binder course over prepared stone base, spray apply a tack coat of emulsified asphalt over binder courses, place and compact type “E” or “F” asphalt top course over binder courses, compact asphalt according to specifications satisfactory to testing agency, provide precast concrete curb stops and stake rods, line marking painting, fire lane markings and curb painting, handicapped symbols and related markings, stop bars, thermoplastic traffic paint within right-of-ways as required, traffic signage and posts, coring and concrete post set as required, repair of defective or unacceptable materials as required, ensure positive water drainage, clean adjacent concrete curb and sidewalks subsequent to paving operations, remove and replace work not in compliance with project specifications.

Related work provided and installed under other work packages include: storm system drop inlet frames and grates, concrete curb and gutter, concrete paving and sidewalks mountable concrete islands, backfilling edges of new paving.

Concrete Curbs & Gutters – Package 2-E

Supply and install materials and provide labor, equipment and supervision as required to complete the following: engineer's staking and lay-out work, BMP methods and practices as required, daily project clean-up, unloading and material handling, provisions for material storage and protection, cold/hot weather protection measures, product data and submittals, perform field measurements as required for approval and fabrication process, ensure proper fitting of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Curbs, Gutters, Sidewalks, and Driveways section 321600(As pertains to curb and gutter work), provide engineer's staking and layout of curbs and gutters related to control and finish elevations, fine grade and prepare subgrade for curb form placement, install cast-in-place or mechanically placed concrete curbs and gutters and drainage flumes, install mountable curb islands in right-of-ways, provide form materials and form release agents, provide all required materials including: ready-mixed concrete, pumping and conveyance, moisture-retaining covers, evaporation control, bonding agents, bituminous fiber joint fillers, expansion and isolation joints, repair of defective or unacceptable materials as required, ensure positive water drainage, remove and replace work not in compliance with project specifications.

Related work provided and installed under other work packages include: hooded frames and grates (if applicable), asphalt paving and stone base, concrete paving and sidewalks, dumpster pads.

Concrete Paving and Sidewalks – Package 2-F

Supply and install materials and provide labor, equipment and supervision as required to complete the following: staking and lay-out work, BMP methods and practices as required, daily project clean-up, unloading and material handling, provisions for material storage and protection, cold/hot weather protection measures, product data and submittals, perform field measurements as required for approval and fabrication process, ensure proper fitting of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including the Geotechnical Report section 003132 – Base Courses section 321100 – Rigid Paving section 321300 –Curbs, Gutters, Sidewalks, and Driveways (as pertains to sidewalks and concrete paving), provide engineer’s staking and layout of walks and paving related to control and finish elevations, fine grade and prepare subgrade for formwork and concrete placement, provide and place stone base under concrete paving and walks as required, install concrete paving and sidewalks, install concrete patios and courts, install poured concrete steps and formwork, install handicap ramps with ADA pavers (if required), install door pads at exterior of buildings, install concrete ramps and kitchen dock slabs, install cooling tower and dumpster pads, install transformer and generator set pads, provide all required materials including: form materials and form release agents, ready-mixed concrete, pumping and conveyance, moisture-retaining covers, evaporation control, bonding agents, bituminous fiber joint fillers, expansion and isolation joints, welded wire mesh and reinforcing steel, repair of defective or unacceptable materials as required, ensure positive water drainage, clean adjacent concrete curb and sidewalks subsequent to finishing operations, remove and replace work not in compliance with project specifications.

Related work provided and installed under other work packages include: concrete curb and gutter, building foundations and floor slabs, setting of steel pipe bollards, covered canopy foundations and piers, cooling tower foundations and piers(if applicable), mountable curb islands.

Cast-in-Place Building Concrete Work – for Kitchen Addition and Kitchen Remodel – Package 3-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: foundation and building lay-out work, surveyor's building corner hubs for control, daily project clean-up, debris removal and related dump fees, unloading and material handling, provisions for material storage and protection, cold/hot weather protection measures, scaffolding and temporary platforms per OSHA compliance, product data and submittals, reinforcing steel approval and fabrication drawings, perform field measurements as required for approval and fabrication process, ensure proper fitting of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Cast-In-Place Concrete section 033000 – Vapor Retarders section 072600 (as applicable to concrete foundation work), building related concrete work, exterior canopy footings, excavation of foundations and spoil disposal as directed on-site, backfilling and compaction of foundation at interior building areas, temporary shoring and underpinning, welded wire mesh sheets, concrete related reinforcing steel including masonry wall dowels, chairs and supports and rebar positioners, epoxy grout at inserts and dowels as required, metal keyway at construction joints, polyolefin and/or polyethylene vapor barriers with seal at joints, waterstops, bonding agents, pre-molded expansion and isolation joint filler strips at masonry walls, perimeter slab insulation board (if applicable), fine grade soil sub-grade, pre-treat slabs and foundations for termite control, provide and compact stone granular sub-base over sub-grade, fine-grade sub-base stone subsequent to slab rough-in as required, recessed slabs as indicated, formwork of foundations and piers as required, rubbing exposed concrete surfaces, ready-mixed concrete, admixtures and plasticizers as required (if allowed), pumps and conveyance of concrete, placing/consolidating and finishing of poured in place concrete foundations and floor slabs and elevated slabs, sloped floor slabs at drains as indicated, absorptive and moisture-retaining covers, spray curing compound on slabs, saw-cutting control joints in floor slabs, grout base plates at structural steel columns, pour and finish diamond-outs at columns and piers, waterproofing and toe drains for concrete retaining walls (as applicable), bituminous dampproofing on interior side of masonry foundation walls as indicated prior to backfill, excavate and set steel pipe bollards, provide and install cast stone round parking bollards over steel pipe bollards, aluminum bus and covered walk canopy foundations, concrete housekeeping pads for electrical gear and mechanical equipment as required, concrete locker bases, repair of defective or unacceptable surfaces as required, remove and replace defective concrete or work not in compliance with project specifications.

Materials provided under separate work packages and installed under this work package include: structural steel column anchor bolts, fabricated steel embed angles, drain grate frames, steel pipe bollards, canopy block-outs.

Related work provided and installed under other work packages include: material testing, foundation unit masonry, concrete curb and gutter, concrete sidewalks, concrete paving, mountable curb islands, cooling tower pads, transformer pads, generator set pads.

Unit Masonry Package – Package 4-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: foundation masonry and building wall lay-out work, daily project cleanup, debris removal and related dump fees, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture protection measures, stain prevention measures, scaffolding and temporary platforms per OSHA compliance, product data and color selection samples, reinforcing steel approval and fabrication drawings, perform field measurements as required for approval and fabrication process, ensure proper fitting of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Unit Masonry section 042000 – Metal Fabrications section 055000(as pertains to steel lintels for new bard unit installation(if applicable)) – Bituminous Dampproofing section 071113 – Thermal Insulation section 072100(as pertains to extruded rigid board insulation for masonry construction) – Weather Barriers section 072500(as pertains to weather barriers at masonry wall applications), all new CMU and brick, all exterior and interior block patchwork and new walls as indicated, patchwork at bard unit holes cut by mechanical subcontractor, patching of all exterior vents(field verify), patching of sills as shown on contract drawings, temporary shoring and bracing of walls and lintels, masonry related reinforcing steel, supports and rebar positioners, set plumb and brace hollow metal door and view window frames located in masonry partitions, wood carpentry related to providing temporary opening templates for exterior windows and other openings, clay unit masonry (brick) and special shapes as required, concrete unit masonry (block) and special shapes as required, bull-nose sills/jambes and corner shapes, fire-rated masonry units as required, masonry grout fill, brick and block mortar, masonry sand, mill-galvanized horizontal joint reinforcing at interior walls, hot-dipped horizontal joint and cavity wall reinforcing with hook and eye pintles at exterior cavity walls, hardware cloth and special tees, adjustable screw-on brick anchors over metal stud framing (if applicable), adjustable two-piece weld-on column/beam anchors and straps, anchor welding, channel slots and anchors, bituminous dampproofing exterior masonry foundation and building cavity walls and over metal stud/drywall parapets as indicated to achieve required thickness, rigid extruded polystyrene board insulation and mastic in wall cavities and over metal stud walls, foamed-in-place masonry core fill insulation (if applicable), rubberized-asphalt through-wall masonry flashing embedded in masonry work, stainless sheet metal flashing where indicated over exterior window and door lintels, flashing termination bars, metal expansion joints, premolded control/expansion joints, mortar net/cavity drainage, weeps and vents, sash, brick cleaning and acidic agents, rubbing and pointing block for painting, monumental school sign unit masonry and precast concrete copings (if applicable), screen walls at mechanical yards, mock wall construction for approval per specifications, repair of defective or unacceptable surfaces as required, remove and replace defective masonry or work not in compliance with project specifications, remedy hollow metal door frames found to be out of square or plumb due to improper bracing or negligence during masonry work.

Structural Steel, Steel Joists, Steel Deck, Metal Fabrications Erection & Installation - Package 5-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather protection and stain prevention measures, scaffolding and temporary platforms per OSHA compliance, temporary bracing and guying during erection operation as required, develop fall protection plan per OSHA requirements and provide safety equipment as required, provide welding certification and mill reports per specifications, detailed shop drawings and product data and material samples with engineer's certification and connection design for approval of fabrication and erection of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of work, provide materials and field erection of all required materials as detailed in the project drawings and as described in the project specifications including Structural Steel Framing section 051200 – Steel Joist Framing section 052100 – Steel Decking section 053100 – Metal Fabrications section 055000, galvanized zinc coating for loose bearing plates and masonry lintels and metal at exterior of building or non-conditioned spaces as indicated on the drawings or specified, ladders, miscellaneous framing and supports for equipment, field welding of connections as required for erection and installation of metal fabrications and stairs and pipe/tube railings, coring of concrete and installation of pipe and tube rails, removable handrails, grinding and filling and dressing of exposed fillet welds to smooth profile, touch-up of steel primer subsequent to field welding and grinding, bolts and fasteners and accessories, anchor rods, bridging and bracing, anchors and inserts and sleeves to attach steel or metal fabrications to concrete and masonry construction as required, remove and replace defective metals or work not in compliance with project specifications.

Materials provided under this work package for installation by others include: structural steel column anchor bolts, pipe bollards and embed steel for concrete package work.

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: material testing, setting of steel column anchor bolts, grouting of steel column base plates, field welding of masonry anchors to columns and beams, installation of loose steel masonry lintels and pipe bollards and embed steel, metal roof and covered canopy panels, sheet metal flashing and trim, gutters and downspouts.

Rough Carpentry & Miscellaneous Installs – Package 6-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture protection measures, scaffolding and temporary platforms per OSHA compliance, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Miscellaneous Rough Carpentry section 061000 – Sheathing section 061600, product data and material samples, wood furring, wood blocking to support any roof parapet extension/modifications, blocking for new roof assemblies, blocking for new roof-mounted HVAC equipment curbs, sheathing for new roofing systems at front canopy, treated lumber with zinc coated fasteners where required, equipment boards and miscellaneous panels, nails, brads, wood screws, lag bolts, expansion anchors, power driven fasteners, provide and install all running trim and nosings at stage, remove and replace defective carpentry or work not in compliance with project specifications.

Related work provided under other work packages and installed in this one include: Signage, plaques, and dimensional letters, flag pole, and any fire extinguishers added for project.

Related work provided, installed and performed under other work packages include: non-permanent wood carpentry related to accomplish masonry work, wood formwork related to concrete work.

Solid Surface Fabrications – Countertops and Window Sills – Package 6-B

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Solid Surface Fabrications section 066116, all new solid surface countertops on existing casework as indicated, ready for final one point mechanical, plumbing, and electrical connections, hardware, accessories, solid surface sills for windows as indicated in the contract documents, manufacturer's and installer's warranties, special finishes warranties, clean installed materials at completion of work, check and readjust systems to ensure proper installation and operation, remove and replace defective materials or work not in compliance with project specifications.

Materials provided under this work package for installation by others include: (none)

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: final one-point utility service termination to fixtures provided and installed under this package.

Roofing Demo, PVC Roofing, Roof Accessories, Associated Sheet Metal, Flashing, and Trim – Package 7-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture protection measures, scaffolding and temporary platforms per OSHA compliance, develop fall protection plan per OSHA requirements and provide safety equipment as required, detailed shop drawings and product data and material samples with engineer's certification and connection design for approval of fabrication and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Thermal Insulation section 072100(as pertains to roofing insulation) – Weather Barriers section 072500 (as pertains to roofing underlayment) – Preparation for Re-Roofing section 070150.19 - Polyvinyl Chloride (PVC) Roofing section 075419 – Sheet Metal Flashing and Trim section 076200 – Roof Accessories section 077200 – Joint Sealants section 079200 (as applicable), faults and defects warranty, manufacturer's and roofer's warranties, special finish warranty, underlayment materials, bituminous coatings, removal of old gutters, downspouts, flashing , and trim, new pre-finished sheet metal flashing and trim, pre-finished metal copings and fascias, ridge closures and caps with weatherseals, seam covers, battens, scuppers, gutters and downspouts, downspout boots and adapters, PVC membrane roofing systems complete per the plans and specifications, base flashing, cant strips, board roof insulation (tapered where indicated and required), saddles and crickets, tapered edge strips, reglets, install lead flashing at penetrations and roof drains (provided by plumbing subcontractor), expansion joint systems, counterflashings, cap flashings, prefinished roof edge and rake trim, equipment supports, meet FM/UL listing requirements, quality control requirement per specifications, walkway protection membranes, aluminum roof access hatches with insulated roof curb and cover, mock-ups, concrete splash blocks at all downspouts discharging on roof surface, final sweeping and clean-up of roof areas at completion of roof work, removal of debris from gutters and valleys, remove and replace defective roofing or work not in compliance with project specifications.

Materials provided under separate work packages and installed under this work package include: None

Related work provided, installed and performed under other work packages include: wood carpentry roof blocking and sheathing, installation of mechanical equipment curbs, roof drain hubs.

Intumescent Fireproofing – Package 7-B

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Intumescent Fireproofing section 078123, all intumescent fire-proofing complete per the project specifications, remove and replace defective expansion control work not in compliance with project specifications.

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: (none)

Joint Firestopping – Package 7-C

Install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture protection measures, installation of materials per specifications, perform field measurements as required for installation process, ensure proper fitting of and appearance of work, provide field installation of all required materials as detailed in the project drawings and as described in the project specifications including Joint Firestopping Section 078443, all joint firestopping complete per plans and specifications, replace materials not in compliance with project specifications or approval submittals.

Joint Sealants – Package 7-D

Install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture protection measures, installation of materials per specifications, perform field measurements as required for installation process, ensure proper fitting of and appearance of work, provide field installation of all required materials as detailed in the project drawings and as described in the project specifications including Joint Sealants Section 079200, all joint sealants complete per plans and specifications, replace materials not in compliance with project specifications or approval submittals.

Aluminum Entrances and Storefronts, and Glass and Glazing – Package 8-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Aluminum - Framed Entrances and Storefronts section 084113 – Door Hardware section 087100 (ass applies to installation of hardware supplied by others) – Glazing section 088000 – Joint Sealants section 079200 (as applicable), faults and defects warranty, manufacturer's and installer's warranties (including glass breakage per specifications), custom color to match existing storefront, special finish warranty, engage services of an engineer to design storefront entrances and curtain wall construction and related connections to buildings per specifications, exterior storefront door entrances framing systems as specified and detailed, glazed aluminum exterior curtain wall framing systems with internal steel reinforcement (if applicable), glazed aluminum exterior window framing systems, high performance coatings, same manufacturers for all materials under this package, aluminum extrusions and sheets, structural pipe and tubes, steel plates, brackets and reinforcements, fasteners and anchors, sealants and gaskets, door hardware by entrance manufacturer, pivots and hinges, locksets and latches, exit devices, push/pulls and closers, low energy operators, stops and holders, thresholds, power supply, weatherstripping and seals, flashing and weeps, integral full depth guttering system at head and spandrel conditions, thermal expansion, coping and covers, glazing of aluminum storefront entrances/doors and curtain wall systems, glazing of interior/exterior aluminum windows, glazing of interior/exterior hollow metal steel doors/transoms/sidelights and borrowed lites, polycarbonate glazing pertaining to gymnasium area (if applicable), fire-rated and safety glass as required, insulated glass as required, primary float glass, heat-treated glass, coated monolithic glass, laminated glass, glazing gaskets/tapes and elastomeric sealants, setting blocks and spacers, butt joint conditions, and j-channel framing for float glass, styles and rails and shelving units at display casework, display casework doors, and hardware, water leakage tests, mock-ups and tests of, cleaning of aluminum materials and glazing at completion of work, check and readjust doors and operating hardware items to ensure proper installation and operation, remove and replace defective aluminum/hardware and glazing materials or work not in compliance with project specifications.

Materials provided under separate work packages and installed under this work package include: steel hollow metal and wood glazing stops and moulding for hollow metal doors and borrowed light frames and wood doors, hardware for aluminum storefront doors, permanent door cylinders and key cores.

Related work provided, installed and performed under other work packages include: framed restroom lavatory mirrors.

Gypsum Board Assemblies, Metal Framing, Insulation, & Acoustical Panel Ceilings – Package 9-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Cold-Formed Metal Framing section 054000 – Cold-Formed Metal Trusses section 054400 – Gypsum Board Assemblies section 092900 – Acoustical Panel Ceilings section 095113 – Thermal Insulation section 072100 – Joint Sealants section 079200 (as applicable), designing and detailing of cold-formed metal framing and support systems for exterior steel stud walls, metal framed trusses, engineered, for entrance canopy, steel framing members for gypsum board, steel framing members for non-load-bearing interior gypsum partitions, steel framing members for smoke and fire rated partitions, steel beams and top of cmu walls to roof deck at smoke and fire rated plenum assemblies, steel framing of gypsum ceilings and bulkheads and soffits, anchors, clips, fasteners, ties and hangers, channels, furring channels, furring, sound attenuation blankets, mineral fiber blanket and batt insulation, exterior glass mat gypsum sheathing board, interior regular and fire-rated gypsum board, water resistant gypsum board, corner beads and miscellaneous accessories, joint treatment and finishing, stencil markings at rated partitions, acoustical joint sealant at tops of interior walls and at floor, standard acoustic ceiling tiles, mold resistant ceiling tiles, vinyl-clad ceiling tiles, stainless steel ceiling tiles (if applicable), high absorption ceiling tiles, acoustic diffuser ceiling tiles, all access panels for drywall work, drywall patchwork at gym louvers and fans as shown on the contract documents, portland cement plaster (if applicable), expanded metal lath and accessories (if applicable), acrylic-based finishes (if applicable), manufacturer's and installer's warranties, special finishes warranties, mock-ups, clean installed materials at completion of work, readjust installed materials to ensure proper installation and operation, extra materials, remove and replace defective materials or work not in compliance with project specifications.

Materials provided under this work package for installation by others include: (none)

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: (none)

Ceramic Tile – Package 9-B

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Ceramic Tiling section 093013 – Joint Sealants section 079200 (as applicable), all hard tile, setting and grouting materials, uncoupling membrane through-out, stone thresholds, latex-portland cement grout, epoxy grout, miscellaneous materials, accessories and trim pieces, metal edge strips, expansion joints and sealants, crack suppression membranes, trowelable underlayments and patching compounds, temporary protective coatings, tile cleaners, grout sealers, manufacturer's and installer's warranties, special finishes warranties, clean installed materials at completion of work, check and readjust installed materials to ensure proper installation, extra materials, remove and replace defective materials or work not in compliance with project specifications.

Materials provided under this work package for installation by others include: (none)

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include:
concrete sub-floor.

Tile Carpeting, Resilient Tile Flooring, Base & Accessories – Package 9-C

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Resilient Base and Accessories section 096513 – Resilient Tile Flooring section 096519 – Carpet Tile section 096813, vinyl composition floor tile, carpet tile installation, resilient wall base and flooring accessories, concrete slab primers, trowelable underlayments and patching compounds, adhesives and cements, transition strips, non-metallic carpet edge guards, resilient carpet edge guards, seaming and rolling of flooring, sanding and leveling of concrete sub-floors prior to installation, calcium chloride moisture and alkalinity tests, manufacturer’s and installer’s warranties, special carpet warranties, clean installed materials at completion of work, check and readjust installed materials to ensure proper installation and operation, extra materials, remove and replace defective materials or work not in compliance with project specifications.

Materials provided under this work package for installation by others include: (none)

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: (none)

ALTERNATES FOR THIS PACKAGE:

- 1.) Alternate #1: LUXURY VINYL TILE FLOORING: Provide ONLY basis of design, Armstrong World Industries, Diamond 10, Coalesce, Exchange, Biome (Wood), and Duo Collections, for all LVT as indicated in the construction documents.
Add \$ _____

- 2.) Alternate #2: BUILDING 2060, STORAGE ROOM FLOOR LVT REPLACEMENT AND PAINTING: For Storage Rooms E301C, E302C, E302D, and E304C, provide a price to demolish existing VCT, install new LVT and new paint for the rooms noted above.
Add \$ _____

- 3.) Alternate # 3: CARPET TILE: Provide ONLY basis of design, Shaw Contract, Diffuse Collection, for all new carpet tile. Final color as selected by the architect.
Add \$ _____

Interior and Exterior Painting – Package 9-D

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Joint Sealants section 079200 (as applicable and adjacent to all field painted surfaces) – Exterior Painting section 099113 – Interior Painting section 099123, painting of all exterior gas piping, caulking and joint sealants related to the interior and exterior side of hollow metal steel door and window frames, interior caulking and joint sealants related to surfaces adjacent to painted masonry or hollow metal frame assemblies, interior side of horizontal and vertical joints of aluminum storefront and windows to masonry, interior masonry control and expansion joints, interior masonry-to-alternate material joints, clean and prepare substrate surfaces prior to priming or block filling and between paint coats as required, surface preparation and priming and field painting of exposed interior and exterior surfaces and items according to project drawings and specifications and paint schedules, painting of all exterior exposed gas piping outside of the building, primers, fillers and sealers, prepare surfaces to receive coatings, alkalinity tests per manufacturer’s requirements for elastomeric coatings, faults and defects warranty, manufacturer’s and installer’s warranties, special finishes warranties, clean installed materials at completion of work, mock-ups, check and readjust installed materials to ensure proper appearance, remove and replace defective materials or work not in compliance with project specifications.

Materials provided under this work package for installation by others include: (none)

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: caulking and joint sealants other than related to interior joints for painting.

ALTERNATES FOR THIS PACKAGE:

- 1.) Alternate #2: BUILDING 2060, STORAGE ROOM FLOOR LVT REPLACEMENT AND PAINTING: For Storage Rooms E301C, E302C, E302D, and E304C, provide a price to demolish existing VCT, install new LVT and new paint for the rooms noted above.
Add \$ _____

- 2.) Alternate # 4: PAINT: Provide a price to furnish ONLY PPG Paint Systems, as specified for interior and exterior paint.
Add \$ _____

Visual Display Boards – Package 10-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Visual Display Units section 101100, porcelain enamel markerboards, plastic-impregnated cork tackboards, surface-mounted non-illuminated bulletin boards with plastic-impregnated cork tack surfaces and tempered glass doors and operating hardware, provide music staffs where required, extruded aluminum alloy trim and accessories, additional support where required, field-applied trim, trays, dry marker pen sets as specified, map rails and tack strips, end stops, map hooks, flag holders, display rails, class II clear anodized aluminum frame and trim finish for markerboards and tackboards, baked enamel organic coating finish for bulletin board frames, fasteners and hardware, hinges and locks for bulletin boards, preparation of wall surface to receive clips and adhesives, install boards straight and plumb and level, manufacturer's and installer's warranties, special finishes warranties, clean installed materials at completion of work, check and readjust installed materials to ensure proper installation and operation, remove and replace defective materials or work not in compliance with project specifications.

Materials provided under this work package for installation by others include: (none)

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: (none)

Signage and Plaque– Package 10-B

Supply materials as required to provide the following: detailed shop drawings and product data and material samples for approval and installation of materials per specifications, freight expenses to project site, provide all required materials as detailed in the project drawings and as described in the project specifications including Panel Signs section 101423 – Plaques 101416, framed panel signs for rooms and classrooms and restrooms/toilets(if applicable), cast bronze metal plaques, fasteners and anchors and adhesives required for installation, manufacturer’s warranty, remediate materials damaged in shipping and replace materials not in compliance with project specifications or approval submittals.

Toilet Partitions and Bath Accessories – Package 10-C

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, provide dumpster for debris generated by this package work, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Plastic Toilet Compartments section 102113.19 – Toilet, Bath, and Laundry Accessories section 102800, all toilet and bath accessories per the project drawings and specifications, standard and custom grab bars, framed and ADA mirrors, folding shower seats, shower rods, plastic toilet partitions or dividers or screens as specified and shown and the contract documents, manufacturer’s and installer’s warranties, special finishes warranties, clean installed materials at completion of work, check and readjust installed materials to ensure proper installation and operation, remove and replace defective materials or work not in compliance with project specifications.

Materials provided under this work package for installation by others include: (none)

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: masonry, rough carpentry nailers and acoustical ceilings, non-framed, float glass mirrors.

ALTERNATES FOR THIS PACKAGE:

- 1.) Alternate # 4: HAND DRYERS: Provide ONLY new had dryers by Pinnacle Dryer Corp, Model # P3-12S: 20 gauge stainless steel.
Add \$ _____

Metal Lockers – For Kitchen Remodel - Package 10-D

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, provide dumpster for debris generated by this package work, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Metal Lockers section 105113, kitchen lockers, hooks and coat rods, number plates, continuously sloping tops, recess trim and filler panels, boxed end panels, powder-coat applied finish with primer and topcoat, all-welded construction with no bolts or screws or rivets used in assembly, built-in bases(if applicable according to specifications), fasteners and anchors required for installation, manufacturer's and installer's warranties, clean installed materials at completion of work, check and readjust systems to ensure proper installation and operation, remove and replace defective materials or work not in compliance with project specifications.

Materials provided under this work package for installation by others include:

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: cast-concrete locker bases(if applicable).

Aluminum Canopies – Package 10-E

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather protection and stain prevention measures, scaffolding and temporary platforms per OSHA compliance, temporary bracing and guying during erection operation as required, develop fall protection plan per OSHA requirements and provide safety equipment as required, provide welding certification and mill reports per specifications, detailed shop drawings and product data and material samples with engineer's certification and connection design for approval of fabrication and erection of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of work, provide materials and field erection of all required materials as detailed in the project drawings and as described in the project specifications including Aluminum Canopy section 107316 - Joint Sealants section 079200(as required), wall supported aluminum door canopies, self-supporting aluminum bus and covered walkway covers, field welding and or fastening of connections as required for erection and installation of aluminum canopies, filling and dressing of exposed fillet welds to smooth profile, bolts and fasteners and accessories, supply imbeds, anchor rods, and/or block-out materials as required, bridging and bracing, internal or external gutter systems or wiring chases(as required), anchors and inserts and sleeves to attach canopies to concrete and masonry construction as required, remove and replace defective metals or work not in compliance with project specifications

Materials provided under this work package for installation by others include: imbed items, block-outs or anchors.

Materials provided under separate work packages and installed under this work package include: (none)

Related work provided, installed and performed under other work packages include: cast-in-place concrete, material testing, setting of steel column anchor bolts or block-outs, grouting of steel column base plates, masonry, structural steel, landscaping, sidewalks, and electrical.

Flag Pole - Package 10-F (Material Only)

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, provide dumpster for debris generated by this package work, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including Ground-Set Flagpoles section 107516, flagpole, accessories, fasteners and anchors required for installation, manufacturer's and installer's warranties, clean installed materials at completion of work, check and readjust systems to ensure proper installation and operation, remove and replace defective materials or work not in compliance with project specifications.

Materials provided under this work package for installation by others include: flagpole sleeve

Materials provided under separate work packages and installed under this work package include: (none)

HVAC & Controls – Package 15-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including, but not limited to, the following: Mechanical General section 230010 – Supports and Foundations section 230520 – Testing and Balancing section 230595 – Insulation section 230700 – HVAC Automatic Controls section 230900 – Ductwork section 233000 – HVAC – Major Equipment section 238000 – Penetration Firestopping section 078413(as applicable)– Sheet Metal Flashing and Trim section 076200 (as applicable) – Joint Sealants section 079200 (as applicable) – Metal Wall Louvers (as applicable), demolition of mechanical equipment, piping, hangers, etc. as shown on contract documents, cutting of all new mechanical unit holes in walls as required for all wall-hung and through- wall units, sleeves associated with equipment, seismic restraints, fire/smoke dampers and grilles, roof curbs and equipment supports for roof mounted equipment and fans, low voltage control wiring and actuators, paint-grip duct in exposed finished areas, kitchen exhaust hood system complete with automatic fire suppression system, kitchen dishwasher exhaust ductwork from above ceiling through roof, gas exhaust duct for boilers and water heaters, roof penetration boots and collars, coordinate equipment requirements and work installation with Plumbing and Electrical and Fire Sprinkler Piping subcontractors, faults and defects warranty, manufacturer’s and installer’s warranties, special finishes warranties, clean installed materials at completion of work, check and readjust systems to ensure proper installation and operation, remove and replace defective materials or work not in compliance with project specifications.

Plumbing and Gas Piping – Package 15-B

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including, but not limited to, the following: Piping and Accessories section 221000 – Plumbing – Major Equipment section 223000 – Plumbing – Fixtures section 224000, disconnect old HVAC equipment as scheduled and re-connect new HVAC equipment, all gas piping, new gas piping and plumbing as shown on the contract documents, plumbing fixtures ,trim, etc., all outside site water and sewer as shown on the contract documents, coordinate equipment requirements and work installation with Mechanical and Electrical subs, faults and defects warranty, manufacturer’s and installer’s warranties, special finishes warranties, clean installed materials at completion of work, check and readjust systems to ensure proper installation and operation, remove and replace defective materials or work not in compliance with project specifications.

ALTERNATES FOR THIS PACKAGE:

- 1.) Alternate # 5: PLUMBING FIXTURES: Provide ONLY basis of design Zurn flush valves and faucets for the project.
Add \$ _____

Generator Installation, Electrical Systems, and Low Voltage Systems – Package 16-A

Supply and install materials and provide labor, equipment and supervision as required to complete the following: daily project cleanup, unloading and material handling, provisions for material storage and protection, cold/hot weather and moisture/dust protection measures, detailed shop drawings and product data and material samples for approval and installation of materials per specifications, perform field measurements as required for approval and fabrication process, ensure proper fitting of and appearance of work, provide materials and field installation of all required materials as detailed in the project drawings and as described in the project specifications including, but not limited to, the following: Common Work Results section 260500 – Low Voltage Conductors section 260519 – Grounding section 260526 – Raceway and Boxes section 260533 – Identification section 260553 – Panelboards section 262400 – Wiring Devices section 262726 – Fuses section 262813 – Disconnect Switches section 262816 – Emergency Generator section 263213(Generator Supplied by Others) – Lighting section 265100 – Fire Alarm section 283111 – Penetration Firestopping section 078413(as applicable) – Joint Sealants section 079200 (as applicable), electrical demolition as shown in contract documents, generator install and prep work complete to generator to be supplied by others, connect equipment power, provide required line voltage and starters to HVAC equipment, whips to HVAC units, GFI outlets and breakers for water coolers, complete fire alarm system, complete intercom systems, coordinate equipment requirements and work installation with Plumbing and HVAC and Plumbing subcontractors, faults and defects warranty, manufacturer’s and installer’s warranties, special finishes warranties, clean installed materials at completion of work, check and readjust systems to ensure proper installation and operation, remove and replace defective materials or work not in compliance with project specifications.

Additional Fire Alarm Devices and Labor:

Contractor shall include in base bid and alternate bid the following extra equipment and an allowance for installation. If equipment listed is not used, turn over to the Owner.

- 1.) (3) Three Pull Stations with Covers
- 2.) (5) Five Ceiling Mounted Strobes
- 3.) (3) Three Ceiling Mounted Horn/Strobes
- 4.) (5) Fire Smoke Detectors
- 5.) (1) One Heat Detector

Note to Package: The 125 KVA generator will be supplied under a separate Purchase Order from this package in a means to expedite the long lead time of the procurement of the generator. All supporting equipment including the wiring, transfer switch, and the installation is to be supplied and installed by the electrical contractor.

ALTERNATES FOR THIS PACKAGE:

- 1.) Alternate # 6: LED LIGHTING, BUILDING 2060 and 2013: In lieu of the base bid, include LED lighting, as specified for building 2060 and 2013. Add \$ _____

Generator Installation, Electrical Systems, and Low Voltage Systems – Package 16-A, CONTINUED

- 2.) Alternate # 6: FIRE ALARM SYSTEM: Provide complete fire alarm system as manufactured by FireLite. System to include MS-9600UDLS microprocessor controlled, intelligent reporting fire alarm equipment required to form a complete, operative, coordination system. Complete system shall also include, but not limited to, alarm initiating devices, alarm notification appliances, Fire Alarm Control Panel (FACP), Voice Evacuation System Control Panel (VCP) auxiliary control devices, annunciators, Ethernet and wiring as shown on the drawings and specified herein. Refer to specification section 283111 – Fire Alarm.
Add \$ _____