



Williams County LEC Infirmary

100% CD

2/6/2026

Owner

WILLIAMS COUNTY ND
PO BOX 2047
WILLISTON, ND 58802-2047

Architect

ENGINEERS-ARCHITECTS PC DBA EAPC
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GRAND FORKS, ND



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SCOPE OF WORK 02.41.00 - SELECTIVE DEMOLITION

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

SELECTIVE DEMOLITION - Including, but not limited to, Specification Section(s):

02 4100	Demolition
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at the end of each work day.
- 1.2. Determine materials to be salvaged, recycled, re-used, or re-installed.
- 1.3. Remove existing Owner FF&E as indicated. Deliver salvaged material(s) to the on-site storage location specified by the Owner.
- 1.4. Convey and remove debris from the Project site to Contractor-provided dumpster, including, but not limited to, carts, chutes, buggies, etc.
- 1.5. Protect adjacent construction and structures.
- 1.6. Sound and dust control.
- 1.7. Perform saw cutting to accomplish neat removals, protect adjacent surfaces and maintain water containment. All saw-cuts shall be completed by the "wet-cut" method.
- 1.8. At locations of transition from areas of the existing structure designated for demolition to areas of the existing structure designated to remain, prepare the existing structure to receive new construction materials (saw cut, grind, other means) in a manner that is straight, plumb, and flush, such that the new construction can be installed without further preparation of the surface by others.
- 1.9. Obtain structural engineer's signed approval for any equipment that will be used on existing floors and roof. Observe maximum loads that may be imposed on floors and do not exceed these loads at any time. Lay down plywood to spread load over high traffic areas.
- 1.10. Notify Contractor of any planned interruption of service to others, including but not limited to Owner, at least fourteen (14) days prior to such interruption, or as otherwise required by the Subcontract Documents.
- 1.11. Comply with Contractor's policy for Floor Holes and Openings at all times. Openings

in floors shall be fully decked and capable to withstand two times (2x) the intended load.

1.12. Combustible fueled equipment shall not be used in interior and/or enclosed areas.

1.13. Lifts, scaffolding, hoisting, and rigging.

2. SELECTIVE DEMOLITION

2.1. Remove debris from the Project site on a continuous basis, and the Project area shall be free from demolition debris at the end of each work day.

2.2. Demolition of all architectural finishes to Contractor-provided dumpsters, including but not limited to, floor and wall finishes, interior partitions, ceilings, millwork, and miscellaneous fixtures / furnishings, and all other demolition required for new build-back.

2.3. Haul-off only of mechanical, electrical, and plumbing (MEP), and fire protection systems. Make-safe, disconnect, and drop-to-floor shall be provided by others.

2.4. Remove finishes to building structure.

2.5. Remove mastics, adhesives, grout, screws, clips, fasteners, and other materials (leveling compounds) as required to create a clean substrate acceptable for new finishes. If chemicals are utilized to remove floor and base adhesives, assure the chemicals are compatible with new flooring adhesives.

2.6. Coordinate the Work to ensure that existing mechanical and electrical systems to remain are not damaged during demolition activities.

3. SELECTIVE STRUCTURAL DEMOLITION

3.1. Structural demolition, including but not limited to, openings and trenching in existing concrete floors, CMU wraps at steel columns, etc.

3.2. Lay out, saw-cut, and remove concrete slab for new underslab mechanical, plumbing, and electrical systems.

3.3. Demolish pockets for new structural lintels at openings.

3.4. Utilize ground-penetrating radar (GPR) at slab areas of concrete demolition to ensure there are not existing utilities within the slab.

The following work is excluded:

1. Temporary partitions and temporary construction access openings through existing walls.

2. Demolition, disconnect, and make-safe of MEP and fire protection systems.

3. Removal of ballasts, capacitors, and transformers that contain Polychlorinated biphenyls (PCBs).

4. Non-Toxicity Characteristic Leaching Procedure (TCLP) fluorescent lamps.

5. Core drilling for MEP piping and/or conduit.

6. Removal of elevator equipment.



7. Removal of MEP equipment (including but not limited to: rooftop packaged units and air handling units).
8. Masonry openings in load bearing walls requiring toothing.
9. MEP equipment salvaging.

Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.

1. Duration for Selective Demolition at Adult Intake/Release: _____ working days.
2. Duration for Selective Demolition at Laundry: _____ working days.
3. Duration for Selective Demolition at Dayroom/Dormitory/Storage Room: _____ working days.

SCOPE OF WORK 03.00.00 - BUILDING CONCRETE

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

BUILDING CONCRETE - Including, but not limited to, Specification Section(s):

03 2000	Concrete Reinforcing
03 3000	Cast-in-Place Concrete
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at the end of each work day.
- 1.2. Protect adjacent finishes prior to placing concrete. Remove protection after placement of concrete and clean adjacent finishes of splatter or slurry.
- 1.3. Protect rebar immediately after placement.
- 1.4. Remove concrete spoils and washouts weekly.
- 1.5. Field cure box for Owner's Testing Agent for curing of concrete cylinders. Assist testing agency in moving cylinders.
- 1.6. Reinforcing steel in concrete Work.
- 1.7. Reveals, drips, form liners, rustification, chamfered corners, and architectural elements and details.
- 1.8. Layout markings that will not permanently mark concrete finishes.
- 1.9. Ensure rebar, embeds, anchor bolts, post tension cables, inserts, and splice sleeves are not displaced during concrete pours.
- 1.10. Concrete conveyance (pumping, buggies, etc.) and placement as required.
- 1.11. Install anchors, bolts, blockouts, sleeves, weeps, plates, and other items embedded in concrete. Embedded items furnished by others. Coordinate location of embedded items with others. After placement of concrete, provide detailed drawing confirming the accuracy of installation for elevation and location within twenty-four (24) hours.

2. BUILDING CONCRETE

- 2.1. Horizontal concrete Work including concrete materials, formwork, placement and finish, expansion joints, bond breakers, control joints, and miscellaneous accessories

required to complete the Work.

- 2.2. Shop Drawings showing suggested saw cut, tool locations, construction joints, and bulkheads for and slab-on-grade.
- 2.3. Submit detailed concrete pour schedule.
- 2.4. Fine grading and hand excavation at thickened slabs. Provide off-site disposal of excess spoils.
- 2.5. Utilize Moisture Mitigating Admixture in concrete slabs to receive finished flooring.
- 2.6. Protect concrete slabs that will be a finished surface. Coordinate proper floor protection with manufacturer's representatives and others installing special flooring systems.
- 2.7. Interior mechanical and appliance pads and curbs as indicated. Layout by others.
- 2.8. Bulkheads as necessary to facilitate Project Schedule.
- 2.9. Rebar splices or form savers either called for or needed for constructability purposes.
- 2.10. Void forms as required. Temporary protection of void forms from weather.
- 2.11. Temporary generators for this Work as required until temporary power is available.
- 2.12. Patching of existing slab-on-grade for new plumbing rough-in. Includes drilling & reinforcing as detailed to connect new slabs into adjacent existing slabs.
- 2.13. Prepare and seal new & existing concrete slab-on-grade at Mechanical Chase 100.

The following work is excluded:

1. Furnishing embeds.
2. Joint sealants.
3. Granular base below concrete.
4. Structural excavation.

SCOPE OF WORK 04.20.00 - MASONRY

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

MASONRY - Including, but not limited to, Specification Section(s):

04 2000	Unit Masonry
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at the end of each work day.
- 1.2. Platforms, scaffolding, lifts, and small tools as required to complete the Work.
- 1.3. Hoisting and lifting required to complete the Work.
- 1.4. Traffic control, barricades, and flagmen both on-site and off-site for the movement of materials and equipment included in this Work.
- 1.5. Submit a detailed scaffolding plan showing the scaffold type anticipated and tie back details. Scaffold plan shall be sealed by an engineer licensed in the state where the Project is located, when required by OSHA regulations. If the scaffold must bear on existing structure, provide reshoring or engineering indicating loads are acceptable. All tie-backs that penetrate the masonry skin either permanently or temporarily shall be stainless steel grade 304. Overhead protection as required for Subcontractor's workforce.
- 1.6. Coordinate unloading, delivery, lay-down area, and masonry batch area with Contractor. Relocation may be required for coordination with the overall construction as directed by Contractor.
- 1.7. Mixing area including a gravel pad under the mixer area. Provide a berm around the mixing area in accordance with storm water runoff requirements. Line basin under the mixing area with impervious liner to prevent groundwater contamination in accordance with EPA requirements.
- 1.8. Layout as required.
- 1.9. Clean masonry per the Subcontract Documents and manufacturer's recommendations.
- 1.10. Temporary protection at top of completed masonry walls, masonry cavities and/or stone cavities. Keep in place and remove when directed by Contractor.
- 1.11. Floor protection. Remove and clean mortar and mortar stains from exposed surfaces.

2. MASONRY

- 2.1. CMU and masonry accessories such as reinforcing, anchors, and other items as required.
- 2.2. Temporary bracing of masonry walls (over eight feet (8') tall) designed by an engineer licensed in the state where the Project is located. The bracing plan should be designed incorporating Project-specific conditions for walls in progress and until final structural connections are made.
- 2.3. Install anchors, bolts, blockouts, sleeves, plates, and other items embedded in masonry. Embedded items furnished by others. Coordinate location of embedded items with others.
- 2.4. Reinforcing steel within masonry walls. Drill and epoxy dowels into substrate where indicated.
- 2.5. Grout hollow metal frames within masonry and concrete assemblies. Frames provided by others.
- 2.6. Masonry patching, salvage, toothing, and in-fills.
- 2.7. Patching, grouting and laying of masonry around wall penetrations.
- 2.8. Control and expansion joints within masonry assemblies. Strike clean caulk joints and expansion joints.
- 2.9. Install access doors within masonry walls. Doors furnished by others.
- 2.10. Install loose steel lintels. Lintels furnished by others.

The following work is excluded:

1. Caulking.
2. Firesafing and firestopping.
3. Expansion joint covers.
4. Furnishing of access doors, loose lintels, and door frames.
5. Surface applied masonry sealers.

Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.

1. Duration for Masonry at Infirmary: _____ working days.

SCOPE OF WORK 06.20.02 - FINISH CARPENTRY (INSTALL)

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

FINISH CARPENTRY (INSTALL) - Including, but not limited to, Specification sections:

07 9200	Joint Sealants (as applicable)
08 1113	Hollow Metal Doors and Frames (as applicable)
08 7100	Door Hardware (as applicable)
10 4416	Fire Extinguishers
11 3010	Appliances (as applicable)
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at end of each work day.
- 1.2. Miscellaneous clips, shims, fasteners, anchors, accessories, expansion anchors, and adhesives as required to complete Scope of Work.
- 1.3. Receive, unload, and distribute materials. Include inventory, quantity verification, and damage inspection.
- 1.4. Receive multiple deliveries, as necessary, per schedule.
- 1.5. Layout as required for the Work of this Scope.
- 1.6. Joint sealants for the Work of this Scope, including sealants to dissimilar materials.
- 1.7. Protect Work with cardboard taped securely during the installation process. Remove when directed by Contractor.

2. FINISH CARPENTRY (INSTALL)

- 2.1. Install standard doors & hardware associated with this Scope of Work. Detention-rated doors, frames, & hardware by Div. 11.
- 2.2. Holes for hardware will be pre-drilled holes by others.
- 2.3. Furnish & install all standard Div. 10 accessories. Detention-rated accessories and FF&E by Div. 11.
- 2.4. All items will be shop-finished before delivering to Project site.
- 2.5. Unload, unbox, and set-in-place new Commercial Washing Machines and new



Commercial Dryers. Hook-ups by Div. 23 Mechanical and Div. 26 Electrical.

The following work is excluded:

1. Joint sealants in other scopes of work.
2. Install wood windows.
3. Rough carpentry.
4. Glass & glazing.
5. Furnish of Doors, Frames, & Hardware.
6. Furnish and install of Casework & Countertops.
7. Furnish & install of fiber reinforced paneling (FRP-1).

Contractor Requested Alternates: The following Contractor Requested Alternates are required for this Scope of Work (in addition to any Alternates defined in the Documents that are recorded on the Bid Form).

1. Provide add cost to furnish & install fiber reinforced paneling (FRP-1): \$ _____
2. Provide add cost to install casework & countertops: \$ _____
3. Provide add cost to install Detention Toilet Accessories and Detention Fire Extinguisher Cabinets: \$ _____.
4. Provide add cost to install Detention Doors, Frames, and Security Hardware: \$ _____.

SCOPE OF WORK 08.10.01 - DOORS, FRAMES AND HARDWARE (SUPPLY)

SCOPE OF WORK

The Supplier shall furnish the following material and equipment:

DOORS, FRAMES AND HARDWARE (SUPPLY) - Including, but not limited to, material and equipment required by Specification Section(s):

08 1113	Hollow Metal Doors and Frames
08 7100	Door Hardware
08 7400	Access Control
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Coordinate rough-in requirements for doors and frames with electrical and security trades.
- 1.2. Include raceways within doors for electrified openings.
- 1.3. Shop Drawings, Submittals, Samples, and hardware schedule within four (4) weeks of fully executed Agreement.
- 1.4. Installation templates for the Work of this Scope.
- 1.5. Multiple deliveries, as necessary, per Schedule.
- 1.6. Label doors, frames, and hardware with the associated opening number.
- 1.7. Host a meeting focused specifically on electrified hardware coordination with door, frame, and hardware installer, Project's hardware consultant, and interfacing trades.

2. DOORS, FRAMES AND HARDWARE

- 2.1. Hollow metal door frames, hollow metal window frames, and sidelights.
- 2.2. Hollow metal doors.
- 2.3. Door hardware and accessories.
- 2.4. Electronic door hardware such as power supplies, power transfers, door contacts, door position switches, transformers, panic/exit devices, mag hold opens, automatic operators, and push buttons at hollow metal doors.
- 2.5. Cores/cylinders at doors, including doors provided by others.
- 2.6. Factory applied concealed or recessed material and smoke/draft control gasketing for fire-rated doors.
- 2.7. Keys and keying as required by the Project Specifications.

- 2.8. Miscellaneous clips, fasteners, anchors, and accessories.
- 2.9. Door hardware at existing or re-used doors and frames. Include machining and repair of existing doors and frames to receive new hardware. Re-certify fire rated openings.
- 2.10. Fabricate doors and frames to accommodate flooring systems.
- 2.11. Minimum of three (3) anchors per jamb to attach door frames to adjoining construction.
- 2.12. Blocking and templates for hardware at hollow metal and wood doors.
- 2.13. Rust inhibiting primer.
- 2.14. Mastic coating at the inside of hollow metal frames to be grouted.
- 2.15. Machine and prepare doors and frames to receive the specified hardware. Provide labeling at fire-rated openings.

The following work is excluded:

- 1. Knox Box.
- 2. Detention-rated doors, frames, & hardware.
- 3. Access panels and doors.
- 4. Aluminum or all-glass doors and associated hardware (except for cylinders).
- 5. Card readers and door position switches.
- 6. Glass and glazing within doors and frames.
- 7. Expansion joint covers.

Contractor Requested Alternates: The following Contractor Requested Alternates are required for this Scope of Work (in addition to any Alternates defined in the Documents that are recorded on the Bid Form).

- 1. Provide add cost to furnish Detention-rated doors, frames, & hardware: \$_____.

SCOPE OF WORK 08.40.00 - GLASS & GLAZING

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

GLASS & GLAZING - Including, but not limited to, Specification Section(s):

08 8853 **Security Glazing**
Div 00 **Procurement and Contracting Requirements**
DIV 01 **General Requirements**

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at end of each work day.
- 1.2. Delegated design Shop Drawings and calculations as required for glass and glazing.
- 1.3. Coordination, assistance, access and equipment necessary for water/air quality testing of window systems.
- 1.4. Miscellaneous clips, shims, fasteners, anchors, and accessories required for a complete installation of the Work of this Scope.
- 1.5. Mock-ups. Mock-ups can be incorporated into the completed construction.
- 1.6. Dimensioned layout drawings for embeds to be installed by others.
- 1.7. Remove labels, stickers, temporary coverings, excessive sealants, dirt, and debris from glass and aluminum surfaces.
- 1.8. Attic stock materials.

2. INTERIOR GLAZING

- 2.1. Replace existing interior glazing with new detention glazing as indicated.
- 2.2. Interior perimeter joint sealants between windows and dissimilar materials.
- 2.3. Glass and glazing within detention hollow metal doors and frames.

The following work is excluded:

1. Final cleaning of glass and glazing.
2. Mirrors specified in Division 10.
3. Hollow metal doors and frames
4. Wiring and final connections of security system contacts.



Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.

1. Lead time for detention glazing (after approved submittals): _____ weeks.

SCOPE OF WORK 09.20.00 - DRYWALL & FRAMING

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

DRYWALL & FRAMING - Including, but not limited to, Specification Section(s):

05 4000	Cold-Formed Metal Framing
06 1000	Rough Carpentry
06 8316	Fiberglass Reinforced Paneling
07 9200	Joint Sealants (as applicable)
09 2116	Gypsum Board Assemblies
09 2216	Non-Structural Metal Framing
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at end of each work day.
- 1.2. Delegated design by an engineer licensed in the state where the Project is located for non-structural metal framing systems. Submit stamped and sealed drawings for approval.
- 1.3. Upon completion of taping work, remove excess taping compound. Sweep floors clean with dust-collecting compound.
- 1.4. Clean floor tracks of debris prior to installing gypsum board.
- 1.5. Coordinate layout of openings through partitions as wall framing progresses, including opening size, elevation, and horizontal dimensioning based on column or wall centerlines.
- 1.6. Coordinate top-out of partitions at priority walls (as determined by Contractor) with others.

2. FRAMING, SHEATHING AND DRYWALL

- 2.1. Patch drywall partitions, soffits, and ceilings to receive new finishes at areas of demolition.
- 2.2. Repair walls where sheetrock was removed by others during selective demolition. Work includes installation of new drywall, removal of existing drywall fasteners, replacement of damaged framing, taping and finishing. Walls shall be left paint ready. Match the drywall finish of the existing walls.

- 2.3. Replace insulation located in the walls and ceilings that was removed by others during selective demolition.
 - 2.4. Cold formed metal framing and miscellaneous clips, shims, fasteners, anchors, and accessories required for a complete installation. Includes areas such as exterior walls, soffits, ceilings, parapets, exterior columns, and other locations indicated.
 - 2.5. Acoustic insulation and acoustical sealant & gaskets in drywall assemblies, including penetrations.
 - 2.6. Gypsum wallboard assemblies, including, but not limited to, light gauge metal framing, furring channels, bracing, slip track, fire track, compressible gaskets, concealed sealants, insulation, gypsum board, expansion joints, control joints, reveals, and taping and sanding.
 - 2.7. Gypsum board ceiling suspension, framing, trim, bracing, hangers, miscellaneous clips, shims, fasteners, anchors, and accessories. Include additional framing for sprinkler heads, diffusers, chilled beams, grilles, and other mechanical and electrical components. Coordinate ceiling framing with others.
 - 2.8. Install hollow metal door and window frames in gypsum board partitions. Frames furnished by others.
 - 2.9. Install access doors. Doors furnished by others. Coordinate quantities with others.
 - 2.10. Non-corrosive fasteners for attachment to treated lumber.
 - 2.11. Tile backer board (cement board) and joint sealant at wall tile locations.
 - 2.12. Shaftwall assemblies, including horizontal enclosures.
 - 2.13. Compressible filler, gaskets, and rigid insulation where drywall meets exterior glass or window mullions.
 - 2.14. Wall and ceiling control and expansion joints and covers in drywall. Coordinate with others.
 - 2.15. Isolation where framing meets structural components.
 - 2.16. Hold drywall one quarter to one half inch ($\frac{1}{4}$ " – $\frac{1}{2}$ ") off floor to prevent water from wicking.
 - 2.17. Plywood sheathing and miscellaneous wood substrate as required within GWB assemblies.
 - 2.18. In-wall wood blocking at GWB assemblies as required for wall-mounted fixtures, furnishings, and equipment. Includes blocking for Owner-furnished items.
 - 2.19. Fiber Reinforced Paneling FRP-1 at locations indicated in Finish Plans.
3. **TAPE AND BED**
- 3.1. Tape, bed, sand, and finish gypsum board systems. Sanding of drywall to be performed mechanically with dust collecting equipment.
 - 3.2. Tape and float behind tile, including glass mat and fibermesh tape.

- 3.3. Tape and float walls to deck, including above ceilings.
- 3.4. Tape and float drywall in mechanical and electrical spaces in levels indicated.
- 3.5. Firetape at rated walls.

The following work is excluded:

- 1. Joint sealants defined in other scopes of work.
- 2. Firestopping of MEP penetrations.
- 3. Expansion joints and covers defined in other scopes of work.
- 4. Temporary heat and enclosures for this Work.
- 5. Installation of doors and hardware.

Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.

- 1. Duration for the Framing at Laundry: _____ working days.
- 2. Duration for the Drywall Hang, Tape, & Finish at Laundry: _____ working days.
- 3. Duration for the Framing at Infirmery: _____ working days.
- 4. Duration for the Drywall Hang, Tape, & Finish at Infirmery: _____ working days.

SCOPE OF WORK 09.30.00 - TILE

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

TILE - Including, but not limited to, Specification sections:

07 9200	Joint Sealants (as applicable)
09 3000	Tiling
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at end of each work day.
- 1.2. Verify substrates are acceptable for installation of material including surface conditions, compatibility with existing finishes, and bonding prior to the start of the Work. Confirm flatness of subsurfaces before beginning the installation of this Scope of Work.
- 1.3. Field mock-up of each type of tile. Review field mock-ups with Contractor.
- 1.4. Joint sealants in expansion, contraction, control, and isolation joints in finished tile surfaces.
- 1.5. Protection of adjacent finishes during the Work. Use non-marking tape and maintain protection until punch-list activities begin. Remove and dispose of protection material as directed by Contractor.
- 1.6. Cut tile materials to fit tightly to vertical surfaces, permanent fixtures, and built-in furniture.
- 1.7. Polished cuts and cores for receptacles, switches, plumbing fixtures, and penetrations.
- 1.8. Finishing and/or sealing of finished product.
- 1.9. Caulk inside corners in lieu of grout.

2. TILE WORK

- 2.1. Wall, base, thresholds, special shapes, and trim for tile, including setting and grouting materials for tile, mortar, sealing of grout joints, transition strips, metal edge strips, and grout release.
- 2.2. Wall preparation, including wall sanding, edge and reducer strips, metal termination strips between wall materials, primers, adhesives, setting mortar, and other

miscellaneous items required. The Work includes any wall fill or leveling compound required at wall joints.

The following work is excluded:

1. Temporary heat and enclosures.
2. Joint sealants defined in other scopes of work.
3. Final cleaning.
4. Cementitious backer board.

SCOPE OF WORK 09.67.00 - FLUID-APPLIED FLOORING

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

FLUID-APPLIED FLOORING - Including, but not limited to, Specification sections:

03 5400	Cast Underlayment
07 9200	Joint Sealants (as applicable)
09 6700	Fluid-Applied Flooring
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at end of each work day.
- 1.2. Verify substrates are acceptable for installation of material including surface conditions, compatibility with existing finishes, and bonding prior to the start of the Work. Confirm flatness of subsurfaces before beginning the installation of this Scope of Work.
- 1.3. Test slab moisture content, pH, and vapor testing per Specification and manufacturer's recommendations (minimum of both calcium chloride and relative humidity test) prior to the start of the Work. Submit documentation to Contractor.
- 1.4. Moisture Vapor Reducing Admixture (MVRA) (by others) will be utilized at new concrete patching at Mechanical Chase 100 and new Isolation Cells. Coordinate requirements with fluid-applied flooring manufacturer.
- 1.5. Clean concrete floor (including, but not limited to, mopping, buffing, sanding, and bead blasting for acceptable substrate) prior to installation of flooring. Scraping of drywall mud by others.
- 1.6. Floor preparation, including, trowelable underlayments and patching compounds as required to meet flooring manufacturer requirements. Floor preparation includes concrete joints, repair of chips or dings, and deviations in elevation outside the specified levels. Work also includes transitions between rooms, doorways, and transitions from new to existing.
- 1.7. Field mock-up of each type and manufacturer of flooring with each manufacturer's technical representative. Review field mock-ups with Contractor.
- 1.8. Joint sealants in expansion, contraction, control, and isolation joints in finished surfaces.



- 1.9. Protection of adjacent finishes during Work. Use non-marking tape and maintain protection until punch-list activities begin. Remove and dispose of protection material as directed by Contractor.
- 1.10. Unless noted otherwise, at doorways, center seams and floor transitions shall be placed under the door when in the closed position.
- 1.11. Confirm slopes to drains before beginning the installation of this Scope of Work.
- 1.12. Dust control and protection of other materials during grinding/bead blasting activities.
- 1.13. Block-outs in flooring system for others.
- 1.14. Provide floor repair & floor leveling for new floor finishes at existing sloped floors, showers, & drains located within existing INMATE TOILET area.

2. FLUID APPLIED FLOORING

- 2.1. Fluid applied, resinous flooring and integral base as well as accessories including edging, transitions, metal termination strips between flooring materials, primers, adhesives, moisture test kits, and other miscellaneous items.

The following work is excluded:

- 1. Floor expansion joint covers.
- 2. Temporary heat and enclosures.
- 3. Joint sealants defined in other scopes of work.
- 4. Concrete vapor sealer.
- 5. Final cleaning.
- 6. Major floor preparation (self-leveling and grinding of subfloor) above and beyond preparation defined in inclusions.

Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.

- 1. Duration for Fluid-Applied Flooring at Adult Intake/Release: _____ working days.
- 2. Duration for Fluid-Applied Flooring at Laundry: _____ working days.
- 3. Duration for Fluid-Applied Flooring at Infirmary: _____ working days.

Contractor Requested Alternates: The following Contractor Requested Alternates are required for this Scope of Work (in addition to any Alternates defined in the Documents that are recorded on the Bid Form).

- 1. Provide add cost to include selective demolition of existing flooring at Adult Intake/Release area, including adjacent Sally Ports, Corridors, and associated areas:
\$ _____
- 2. Provide deduct cost to omit new fluid-applied flooring at Laundry: \$ _____



SCOPE OF WORK 09.90.00 - PAINTING

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

PAINTING - Including, but not limited to, Specification Section(s):

07 9200	Joint Sealants (as applicable)
09 9123	Interior Painting
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at end of each work day.
- 1.2. Surface preparation for the Work of this Scope.
- 1.3. Verify substrates are acceptable for applying coatings over substrate, including surface conditions, compatibility with existing finishes, and bonding prior to the start of the Work.
- 1.4. Moisture test subsurface, with testing method approved by the Contractor, before beginning the installation of wall finishes. Submit results to Contractor before beginning the Work.
- 1.5. Clean paint residue from floor and adjacent surfaces daily. Remove overspray.
- 1.6. Clean-up and disposal of paint and cleaning material including off-site disposal of paint and cleaning agent cans. Disposal of products in site inlet grates is not allowed.
- 1.7. "Wet Paint" signs to protect newly coated surfaces. Remove and dispose temporary protection, including protection provided by others to protect work, after completing the Work of this Scope.
- 1.8. Reasonable touch-up immediately prior to punch-list activities.

2. INTERIOR COATINGS

- 2.1. Interior painting including, but not limited to, surface preparation, block fillers, primers, sealers, paints, coatings, and high performance coatings.
- 2.2. Prepare and paint items identified to receive field applied coatings, including masonry, walls, shop-primed metal items, access doors, etc.
- 2.3. Interior cosmetic caulking including, but not limited to, detention metal frames (interior) and casework items to drywall.

The following work is excluded:

1. Concrete floor sealer.
2. Field painting of pre-finished Security Ceiling Assemblies.
3. Temporary heat and enclosures for this Work.
4. Joint sealants defined in other scopes of work.

SCOPE OF WORK 11.98.00 - DETENTION EQUIPMENT

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

DETENTION EQUIPMENT - Including, but not limited to, Specification sections:

07 9200	Joint Sealants (as applicable)
10 2813.63	Detention Toilet Accessories
10 4413	Detention Fire Extinguisher Cabinets
11 1910	Detention Doors and Frames
11 1920	Detention Security Hardware
11 1940	Detention Security Furniture-Furnishings
11 1970	Security Ceilings Assemblies
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at the end of each work day.
- 1.2. Miscellaneous clips, shims, fasteners, anchors, accessories, expansion anchors, and adhesives as required to complete Scope of Work.
- 1.3. Coordinate Scope of Work with others prior to beginning the Work.
- 1.4. Field measure prior to fabrication and adjust Shop Drawings accordingly.
- 1.5. Shop Drawings within two (2) weeks of receipt of Notice to Proceed.
- 1.6. Multiple deliveries, as necessary, per schedule. Includes early delivery of detention frames at CMU and GWB assemblies, for installation by others.
- 1.7. Blockouts for mechanical, electrical, and plumbing.
- 1.8. Clean detention equipment prior to building turn over.

2. DETENTION EQUIPMENT

- 2.1. Detention doors, detention frames (doors, windows, and borrowed lights), detention hardware, security glazing, crash gate detention enclosure assemblies, crash gate doors, detention/security access doors, and security ceiling assemblies as indicated.
- 2.2. Pre-finished security ceiling assemblies as indicated. Includes cutting as required at MEP/FS/LV fixtures, devices, and equipment.



- 2.3. Cell doors and sleeping frames.
- 2.4. Temporary brace frames to ensure doors and openings are plumb.
- 2.5. Smoke seal gaskets at detention access doors.
- 2.6. Conduit and back boxes for others.
- 2.7. Factory-applied prime painting on steel as specified.
- 2.8. Detention toilet accessories and detention fire extinguishers & cabinets.
- 2.9. Install owner-furnished detention items, including, but not limited to bunks, shelving, metal tables, security tables & seats, benches, tablet charger, communication kiosk, mirrors, robe hooks, shower rods, grab bars, television boxes, etc.
- 2.10. Security fasteners.
- 2.11. Install owner-furnished detention items.

The following work is excluded:

- 1. Installation and grouting of detention frames at CMU and GWB assemblies.
- 2. Signage, unless specifically noted.

Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.

- 1. Lead time for submittals: _____ weeks.
- 2. Lead time for Detention Doors, Frames, & Hardware (after approved submittals): _____ weeks.
- 3. Lead time for Detention Specialties (after approved submittals): _____ weeks.
- 4. Lead time for Detention Security Ceilings (after approved submittals): _____ weeks.
- 5. Duration for Detention DFH & Specialties at Laundry: _____ working days.
- 6. Duration for Detention Security Ceilings at Laundry: _____ working days.
- 7. Duration for Detention DFH & Specialties at Infirmary: _____ working days.
- 8. Duration for Detention Security Ceilings at Infirmary: _____ working days.

SCOPE OF WORK 12.30.00 - CASEWORK

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

CASEWORK - Including, but not limited to, Specification sections:

06 4100	Architectural Wood Casework
07 9200	Joint Sealants (as applicable)
12 3200	Manufactured Wood Casework
12 3661.16	Solid Surfacing Countertops
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at end of each work day.
- 1.2. Shop drawings for Work of this Scope. Include in-wall blocking showing exact locations, elevations, sections, details, and attachments of blocking requirements. Coordinate cut-out sizes for fixtures provided by others.
- 1.3. Develop a coordinated piece mark system for materials to ensure accurate and coordinated installation. Review with Contractor.
- 1.4. Layout, field verification, measurements, and templates.
- 1.5. Protection of Work, including shelves and countertops, with cardboard taped securely during the installation process. Remove when directed by Contractor.
- 1.6. Coordinate drawings and all of manufacturer's cut sheets and Shop Drawings for mechanical, plumbing, electrical, and connections for large equipment.

2. CASEWORK

- 2.1. Casework, including but not limited to, cabinets, countertops and supports, including casework wall structures and miscellaneous hardware, trim, shimming, and anchorage devices for a complete installation.
- 2.2. Solid surface countertops, including side and backsplashes, supports, edge detailing, backing material or subtops, sealers, adhesives, and miscellaneous hardware, trim, shimming, and anchorage devices for a complete installation. Exposed edges shall be polished, unless provided otherwise in the Subcontract Documents.
- 2.3. Finish hardware associated this Scope of Work.



- 2.4. Pre-drilled holes for hardware.
- 2.5. Cutouts in casework, countertops, and any other items included in this Scope of Work. Grommets in countertops as located in the field.
- 2.6. Finish touchup and fillers to complete this Scope of Work.
- 2.7. Joint sealants for the Work of this Scope, including sealants to dissimilar materials.
- 2.8. Align and adjust casework doors, drawers, hardware, and shelves including locking mechanisms prior to turnover to Owner. Provide Contractor with a keyed lock schedule and all keys associated with each piece of millwork specified to receive locks.
- 2.9. Shop finish wood items before delivering to Project site.

The following work is excluded:

- 1. Joint sealants described in other scopes of work.
- 2. Cubicle curtains and tracks.
- 3. Toilet compartments and accessories.
- 4. Mechanical, electrical, or plumbing work for fume hoods.
- 5. In-wall blocking.
- 6. Final mechanical, electrical, and plumbing connections.

Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.

- 1. Lead time for submittals: _____ weeks.
- 2. Lead time for materials (after approved submittals): _____ weeks.

Contractor Requested Alternates: The following Contractor Requested Alternates are required for this Scope of Work (in addition to any Alternates defined in the Documents that are recorded on the Bid Form).

- 1. Provide deduct cost to omit installation: \$ _____

SCOPE OF WORK 21.00.00 - FIRE SUPPRESSION

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

FIRE SUPPRESSION - Including, but not limited to, Specification Section(s):

07 9200	Joint Sealants (as applicable)
20 0500	Demolition (as applicable)
21 0553	Identification for Fire Suppression Piping and Equipment
21 1300	Fire-Suppression Sprinkler Systems
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. **GENERAL**

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at the end of each work day.
- 1.2. Layout for penetrations as required.
- 1.3. Layout of equipment that will require specific backing and framing.
- 1.4. Sealing, flashing, and escutcheons for ceiling, wall, and floor penetrations as required for this Scope of Work.
- 1.5. Firestopping for penetrations as required for this Scope of Work.
- 1.6. Equipment mounting brackets as required.
- 1.7. Coordinate with others as required for full integration and interface of the system(s) included in the Work.
- 1.8. Furnish access doors as required for this Scope of Work. Installation by others.
- 1.9. Core drilling including layout, structural x-rays, and temporary protection as required for this Scope of Work. Obtain written approval from Contractor before any core drilling.
- 1.10. Saw-cutting and patching as required for this Scope of Work.
- 1.11. Supervision at concrete and grout pours involving penetrations and sleeves associated with this Scope of Work.
- 1.12. Expansion joints for piping as required.
- 1.13. Remove existing fireproofing as required to install new hangers. Patch fireproofing disturbed by this Scope of Work.

2. FIRE SPRINKLER SYSTEM

- 2.1. Make safe sprinkler systems prior to selective demolition.
- 2.2. Drain water from piping systems.
- 2.3. Shutdown and cap all necessary existing sprinkler heads before each phase of renovation.
- 2.4. Selective demolition of existing fire suppression system(s) within renovation areas, including, but not limited to, phased shutdown and draining, phased cutting & capping of existing piping, and salvage & storage of any existing piping or devices as required for re-installation. System shutdowns and tie-ins shall occur as permitted by Owner.
- 2.5. Extension of existing fire suppression system within renovation areas. Includes adjustments of existing system as needed to accommodate new architectural, structural, mechanical, electrical, and plumbing work.
- 2.6. Locate sprinkler heads as shown on the reflected ceiling plans.

The following work is excluded:

1. Temporary Fire Protection system(s).
2. Cutting and installation of new Security Ceiling Assemblies at or around relocated sprinkler heads.
3. Fire extinguishers and fire extinguisher cabinets.

SCOPE OF WORK 23.00.00 - MECHANICAL (HVAC & PLUMBING)

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

MECHANICAL (HVAC & PLUMBING) - Including, but not limited to, Specification Section(s):

05 4523	Equipment Support System (as applicable)
07 9200	Joint Sealants (as applicable)
11 3010	Appliances (as applicable)
20 0500	Demolition (as applicable)
20 0513	Common Motor Requirements (as applicable)
22 0516	Expansion Fittings and Loops for Plumbing Piping
22 0517	Sleeves and Sleeve Seals for Plumbing Piping
22 0519	Meters and Gauges for Plumbing Piping
22 0523	General-Duty Valves for Plumbing Piping
22 0529	Hangers and Supports for Plumbing Piping and Equipment
22 0548	Vibration and Seismic Controls for Plumbing Piping and Equipment
22 0553	Identification for Plumbing Piping and Equipment
22 0716	Plumbing Equipment Insulation
22 0719	Plumbing Piping Insulation
22 1005	Plumbing Piping
22 1006	Plumbing Piping Specialties
22 4000	Plumbing Fixtures
22 6000	Gas and Vacuum Systems for Laboratory and Healthcare Facilities
23 0516	Expansion Fittings and Loops for HVAC Piping
23 0529	Hangers and Supports for HVAC Piping and Equipment
23 0548	Vibration Controls
23 0553	Identification for HVAC Piping and Equipment
23 0593	Testing, Adjusting, and Balancing for HVAC
23 0713	Duct Insulation
23 0719	HVAC Piping Insulation
23 0923	Direct Digital Control System for HVAC
23 0923.30	Variable Frequency Controllers
23 0993.11	Sequence of Operation
23 2113	Hydronic Piping
23 2114	Hydronic Specialties
23 2513	Water Treatment for Closed-Loop Hydronic Systems

23 3113	Metal Ducts
23 3300	Air Duct Accessories
23 3501	Dryer-Vent Exhaust Collection Systems
23 3700	Air Outlets and Inlets
23 8146.13	Water-to-Air Heat Pumps
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at the end of each work day.
- 1.2. Furnish access doors as required for this Scope of Work. Installation by others.
- 1.3. Core drilling including layout, structural x-rays, and temporary protection as required for this Scope of Work. Obtain Contractor's written approval before any core drilling.
- 1.4. Layout for equipment pads and penetrations as required.
- 1.5. Saw-cutting and patching as required.
- 1.6. Supervision at concrete pours involving penetrations and sleeves associated with this Scope of Work.
- 1.7. Sealing, flashing, and escutcheons for ceiling, wall, and floor penetrations as required for this Scope of Work.
- 1.8. Firestopping for penetrations as required for this Scope of Work.
- 1.9. Anchorage calculations for equipment, piping, and ductwork as required for this Scope of Work.
- 1.10. Make safe plumbing and HVAC systems prior to selective demolition.
- 1.11. Drain water from piping systems.
- 1.12. Shutdown and cap all necessary existing plumbing and ductwork before each phase of renovation.
- 1.13. Selective demolition of existing plumbing, HVAC, and controls system(s) within renovation areas, including, but not limited to phased shutdown and draining, cutting & capping of existing piping and ductwork, and salvage & storage of any existing piping, ductwork, fixtures, and/or devices as required for re-installation. System shutdowns and tie-ins shall occur as permitted by Owner.
- 1.14. Make-safe, disconnect, and drop-to-floor all plumbing & HVAC materials & equipment scheduled for removal. Haul-off to dumpster provided by Demolition contractor.
- 1.15. Make-safe and disconnect existing Owner appliances. Haul-off by Demolition

subcontractor. Provide new connections to new appliances. Unloading and placement by Finish Carpenter.

- 1.16. Extension of existing plumbing, HVAC, and controls system(s) within renovation areas. Includes adjustments of existing systems as needed to accommodate new architectural, structural, and associated MEPFS work.
 - 1.17. Review Shop Drawings prior to Work being put in place to identify where additional balancing devices will be required to complete Scope of Work.
 - 1.18. Preconstruction site inspection to identify existing (to remain) systems. Identify the extent that existing systems are affected by new Work and provide personnel to successfully test, adjust, and balance existing and new as a single system.
 - 1.19. After testing and balancing are complete, operate each system and randomly check measurements to verify each system is operating according to the final test and balance readings documented in the final report.
 - 1.20. Permanently mark balancing devices to document balanced position.
 - 1.21. Permanently mark location of all new and relocated valves, dampers, shutoffs, etc.
 - 1.22. Seal all insulation and jacketing that has been affected during the TAB process.
2. UNDERGROUND WORK
- 2.1. Excavating, trenching, shoring, bracing, backfilling to grade, compacting, and patching. Includes off-site disposal of spoils.
 - 2.2. Locates of existing utilities on the site prior to the excavation portion of the Work.
 - 2.3. Hand dig in critical utility areas.
3. GENERAL PLUMBING PIPING, EQUIPMENT, AND FIXTURES
- 3.1. Fittings, plugs, caps, tees, and valves for tie-ins to existing systems.
 - 3.2. Thrust blocks, anchors, and guides for underground piping.
 - 3.3. Insulation for plumbing piping and equipment.
 - 3.4. Caulking for plumbing fixtures and shower units.
 - 3.5. Escutcheons sealed to the wall and around piping, including under-counter piping.
 - 3.6. Re-install existing laundry sink.
4. GENERAL SHEETMETAL, MECHANICAL PIPING, AND MECHANICAL EQUIPMENT
- 4.1. Adjust existing rooftop equipment curb as needed for new for roof-mounted equipment.
 - 4.2. Fire, fire-smoke, smoke dampers, and associated actuators.
 - 4.3. Install duct smoke and heat detectors furnished by others.
 - 4.4. Clean all existing ductwork between new equipment and new GRDs & fans.
 - 4.5. Condensate drainage system.

- 4.6. Piping systems shall not be installed above electrical equipment. If alternative routing is not feasible, provide panning and drain piping for systems routed above electrical equipment.
- 4.7. Thrust blocks, anchors, and guides.
- 4.8. Furnish heat trace system and controllers for HVAC piping and equipment. Installation by others.
- 4.9. Disconnect and prepare for relocation of existing kitchen cooler and freezer condensing units and all associated heat pump and refrigerant piping and accessories as indicated. Field verify exact size and location of equipment. Coordinate with Contractor and Owner prior to any system shut-downs. Relocate condensing units to opposite wall, mounted high enough to make clear walk space of Mechanical Chase. Includes all piping adjustments and system re-fill required for with this relocation work.

5. CONTROLS AND MONITORING

- 5.1. Raceway, instrumentation, wiring and terminations for control and monitoring systems.
- 5.2. Programming of variable frequency drives (VFDs) and equipment controllers including communication and operation settings.
- 5.3. Factory mounted controllers, instrumentation, and programming as required to meet the design sequence of operations for all packaged HVAC systems.
- 5.4. Network cards and gateways to integrate packaged systems with control and monitoring system.
- 5.5. Software, hardware, and labor as required for successful completion of test, adjust, and balance (TAB) scope.
- 5.6. Interlock and control wiring and raceways as required by packaged equipment manufacturer to operate equipment independent of the building controls scope of work.
- 5.7. Smoke purge controls system.

6. START-UP AND TESTING

- 6.1. Start-up screens for pumps during construction. Replace with final strainer prior to TAB and commissioning.
- 6.2. Vacuum and wipe clean HVAC equipment interiors prior to startup and again following commissioning.
- 6.3. Temporary material and equipment for pressure testing of piping systems. Pressure testing through equipment coils is not allowed.
- 6.4. Chemicals and temporary material and equipment for flushing and passivation of piping systems. Flushing through equipment coils is not allowed.
- 6.5. Temporary material and equipment required for leakage testing of ductwork systems.

6.6. Quality control documentation for mechanical systems including factory testing and factory certified start-up.

7. TESTING, ADJUSTING, AND BALANCING (TAB).

7.1. Independent testing, adjusting, and balancing.

7.2. Pressure and temperature ports in locations required to facilitate successful TAB.

7.3. Operation of fire-smoke and smoke dampers, in accordance with manufacturer's recommendations, to allow for startup, temporary conditioning, and TAB. Reset fire-smoke and smoke dampers as soon as fire alarm system can control dampers.

7.4. Seal of insulation and jacketing that has been affected during the TAB process.

7.5. Flush coils and strainers as required for successful TAB completion.

7.6. Weekly updates to TAB deficiency list.

8. COMMISSIONING ASSISTANCE

8.1. Coordinate and cooperate with 3rd Party Commissioning Agent(s) and/or consultant(s).

8.2. Qualified personnel, including manufacturer technicians, to attend all commissioning meetings.

8.3. Qualified personnel, including manufacturer technicians, and equipment to complete pre-functional and functional testing and trending as directed by the commissioning agent.

8.4. TAB verification as directed by the Commissioning Agent and Subcontract Documents.

The following work is excluded:

- 1. Temporary HVAC.
- 2. Concrete patching and housekeeping pads.
- 3. 3rd Party Commissioning.

Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.

- 1. Lead time for submittals: _____ weeks.
- 2. Lead time for Plumbing Fixtures (after approved submittals): _____ weeks.
- 3. Lead time for Mechanical Equipment (after approved submittals): _____ weeks.
- 4. Duration for Selective Demolition at Laundry: _____ working days.
- 5. Duration for Selective Demolition at Dayroom/Dormitory/Storage Room: _____ working days.
- 6. Duration for Underground Plumbing at Infirmary: _____ working days.



7. Duration for In-Wall Rough-Ins at Infirmary: _____ working days.

8. Duration for Overhead Rough-Ins at Infirmary: _____ working days.

SCOPE OF WORK 26.00.00 - ELECTRICAL

SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

ELECTRICAL - Including, but not limited to, Specification Section(s):

05 4523	Equipment Support System (as applicable)
07 9200	Joint Sealants (as applicable)
11 3010	Appliances (as applicable)
20 0500	Demolition (as applicable)
20 0513	Common Motor Requirements (as applicable)
26 0000	Electrical General Requirements
26 0100	Basic Materials and Methods
26 0200	Demolition
26 0400	Electric Service
26 0505	Selective Demolition For Electrical
26 0526	Grounding and Bonding for Electrical Systems
26 0529	Hangers and Supports for Electrical Systems
26 0533.13	Conduit for Electrical Systems
26 0533.16	Boxes for Electrical Systems
26 0553	Identification for Electrical Systems
26 0583	Wiring Connections
26 0923	Lighting Control Devices
26 2416	Panelboards
26 2726	Wiring Devices
26 2813	Fuses
26 5100	Interior Lighting
27 0529	Hangers and Supports for Communications Systems
27 0533.13	Conduit for Communications Systems
27 1000	Structured Cabling
27 1100	Communications Equipment Room Fittings
28 3000	Security System
28 4600	Fire Detection and Alarm
Div 00	Procurement and Contracting Requirements
DIV 01	General Requirements

This Work specifically includes, but is not limited to:

1. GENERAL

- 1.1. Daily cleaning of floors, sidewalks, parking lots, roads, etc. from dust, dirt, and debris resulting from this Work. Leave site, access pathways, and material staging areas in clean condition at the end of each work day.
 - 1.2. Furnish access doors as required. Installation by others.
 - 1.3. Core drilling including layout, structural x-rays, and temporary protection as required. Obtain Contractor's written approval before any core drilling.
 - 1.4. Layout for equipment pads and penetrations as required.
 - 1.5. Saw-cutting and patching as required.
 - 1.6. Supervision at concrete pours involving penetrations and sleeves associated with this Scope of Work.
 - 1.7. Sealing, flashing, and escutcheons for ceiling, wall, and floor penetrations as required.
 - 1.8. Firestopping for penetrations as required for this Scope of Work.
 - 1.9. Remove existing fireproofing as required to install new hangers. Patch fireproofing disturbed by this Scope of Work.
 - 1.10. Temporary power and lighting as per Front End Specs.
 - 1.11. Develop and manage a site specific Lock-out Tag-out (LOTO) Plan.
 - 1.12. Clean interior and exterior of equipment furnished and/or installed as part of this Scope of Work prior to first energization and again prior to Substantial Completion.
 - 1.13. Layout of equipment that will require specific backing and framing.
 - 1.14. Equipment mounting brackets as required for this Scope of Work.
 - 1.15. Protect completed cabling terminations with protective debris covering.
 - 1.16. Coordinate with others as required for full integration and interface of the system(s) included in the Work.
 - 1.17. Coordinate with others as required for power, pathway, conduit, sleeve, and backbox needs. Perform inspections to confirm rough-ins prior to closing ceilings and walls.
 - 1.18. Patch panels and patch cables as required to support all system cabling.
2. ELECTRICAL, LIGHTING, FIRE ALARM, AND LOW VOLTAGE
- 2.1. Make-safe, disconnect, and drop-to-floor of electrical, lighting, fire alarm, and low voltage systems prior to selective demolition. Haul-off of materials by Selective Demolition subcontractor. Electrical contractor shall mobilize at the same time (or before) Selective Demolition subcontractor and complete the Work while Selective Demolition subcontractor is on-site. System shutdowns and tie-ins shall occur as permitted by Owner.
 - 2.2. Disconnect all mechanical equipment scheduled to be removed. Coordinate with Mechanical subcontractor.

- 2.3. Make-safe and disconnect existing Owner appliances. Haul-off by Demolition subcontractor. Provide new connections to new appliances. Unloading and placement by Finish Carpenter.
- 2.4. Disconnect Owner materials, equipment, and devices scheduled to be removed. Coordinate with Contractor.
- 2.5. Salvage materials, equipment, and devices scheduled to remain. Haul salvaged items to location determined by Contractor.
- 2.6. Extension of existing electrical, lighting, fire alarm, and low voltage systems within renovation areas. Includes adjustments of existing system(s) as needed to accommodate new architectural, structural, mechanical, electrical, and plumbing work.
- 2.7. Lighting supports as required.
- 2.8. Disconnects, starters, and variable frequency drives (VFDs) that are not identified as provided by others.
- 2.9. Termination of power circuits for building control panels and devices onto switchboards or panelboards provided within this Scope of Work. Conduit, wire, and terminations at the control panel and devices for these circuits provided by others.
- 2.10. Field adjustment of breaker and relay settings. Breaker setting values furnished by others.
- 2.11. Extend existing or provide new power circuits as required for fire alarm equipment and devices in renovation areas. Includes terminations on fire alarm equipment and devices.
- 2.12. Raceways and supports for fire alarm system.
- 2.13. Raceway, wiring, and terminations of power circuits for all fire protection devices and controllers, including pre-action air compressors, nitrogen generators, and solenoid valves.
- 2.14. Control of fire/smoke and smoke dampers. Fire/smoke and smoke dampers provided by others.
- 2.15. Furnish duct detectors to be installed by others.
- 2.16. Fire-rated door hold-open release devices and contacts and wiring.
- 2.17. Power and low voltage shall be installed within new CMU walls. Surface mounted conduit will not be accepted. Coordinate rough-in with CMU subcontractor.
- 2.18. Verify final TV/monitor locations and low voltage device locations with Owner and Contractor prior to rough-in of electrical and low voltage service to devices. Reference Architectural Plans, Elevations, and Keynotes for wall-mounted and ceiling-mounted device locations.
- 2.19. Raceways, boxes, backboxes, rough-in, and termination for all Division 27 & Division 28 items as indicated. Devices to be furnished by Owner for installation by Electrical subcontractor.



3. COMMISSIONING

- 3.1. Commissioning assistance.
- 3.2. Qualified personnel, including manufacturer technicians, to attend all commissioning meetings.
- 3.3. Qualified personnel, including manufacturer technicians, and equipment to complete pre-functional and functional testing and trending as directed by the commissioning agent.
- 3.4. Temporary load banks including temporary control power and labor for monitoring and operating temporary load banks during testing.
- 3.5. Fire watch during all load banking activities.
- 3.6. Flagging, signage, and barriers during all load banking and electrical testing activities.
- 3.7. After-hours work to relocate and connect load banks in preparation for the following days testing.

The following work is excluded:

- 1. Concrete housekeeping pads.
- 2. HVAC control wiring.

Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.

- 1. Lead time for submittals: _____ weeks.
- 2. Lead time for Light Fixtures (after approved submittals): _____ weeks.
- 3. Lead time for Panelboard(s) (after approved submittals): _____ weeks.
- 4. Duration for Selective Demolition at Laundry: _____ working days.
- 5. Duration for Selective Demolition at Dayroom/Dormitory/Storage Room: _____ working days.
- 6. Duration for In-Wall Rough-Ins at Infirmary: _____ working days.
- 7. Duration for Overhead Rough-Ins at Infirmary: _____ working days.