

# THE WHITING-TURNER CONTRACTING COMPANY

300 EAST JOPPA ROAD | TOWSON, MD 21286

## C. SPECIFIC SCOPE OF WORK

### Unit 26A – Electrical/ Fire Alarm

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

<u>Specific Scope of Work: Electrical/ Fire Alarm</u>	Included	Excluded
1. This subcontractor is fully responsible for all drawings and specifications provided during and after the bid phase of this project. This subcontractor is also responsible for any additional/revised drawings & documents formally issued by Whiting-Turner throughout the bid phase via addendum. This includes drawings and specifications directly related to their respective scope, as well as all other drawings and specifications, regardless of their association with this respective scope of work. A complete listing of all drawings and specifications is attached hereto as Exhibit D.		
2. Subcontractor is responsible for all notes in the contract documents related to this scope of work.		
3. Provide all submittals, certifications, reports, source of supply, samples, shop drawings, mock-ups, product data, as-builts, O&Ms and warranties, as required by specifications.		
4. Attend pre-installation meeting		
5. Furnish and install a complete power distribution system.		
6. Furnish & install all material, equipment, labor, etc. as indicated on the contract documents and as necessary to provide a complete scope of work. This includes but is not limited to wiring, devices, cabinets, cable trays, panels, breakers, transformers, generators, switchboards, EPO's, grounding, conduit, fittings, lights, controls, sensors, switches, labeling, fire alarm, etc.		
7. Furnish & install new circuit breakers/fuses/switches in existing equipment as indicated.		
8. Furnish & install raceways and sleeves for IT cables as indicated. Furnish & install all sleeves, empty conduits, junction boxes, pull boxes, back boxes etc. as required for AV and Low Voltage. All empty raceways are to be provided with a pull string and ring.		
9. Furnish & install disconnects and wiring for all mechanical/plumbing equipment. This subcontractor shall make all single-point connections to mechanical/plumbing equipment furnished and installed by others.		
10. Furnish & install EMT and wiring where contract documents indicate MC-cable is not permitted. Conduit installed on rooftop or exposed/wet areas shall be galvanized rigid.		
11. Relabel all existing electrical panels as indicated. Trace all feeders as required.		
12. Furnish & install receptacles, switches, and cover plates as indicated.		
13. Furnish & install power connections to systems furniture (furniture provided by others).		
14. Door operators will be furnished & mounted by others. This subcontractor shall provide power to operator and control wiring from actuator to operator motor. Programming will be by others.		
15. Subcontractor shall furnish & install all material necessary to accomplish electrical connections to new kitchen and laundry equipment as indicated on the electrical plans and kitchen/laundry plans. Furnish & install new connections as indicated.		
16. Furnish & install all back boxes, single gang mud rings, conduits, sleeves, fire		

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	stopping, pull string, and misc. components indicated for low voltage installer. This includes but is not limited to door security infrastructure, data outlet infrastructure, homerun conduit as indicated on the plans, ground for satellite dish, TV infrastructure, ground bus bars, grounding cables/risers, twist-lock receptacles, etc.		
17.	Concrete housekeeping pads required for electrical equipment shall be by others. Coordinate with other trades.		
18.	Cut, cap, and make safe electrical items scheduled for demolition at the Scandrett House. Label items and systems to remain and to be demolished before demolition contractor starts work.		
19.	Contractor will be responsible for all coordination of electrical outages with the Construction Manager. Off hour coverage for all required outages.		
20.	Coordinate location of all materials/equipment above ceilings and under floors with all other trades. Participate in all coordination meetings. Any conflicts must be resolved prior to the start of work.		
21.	Rough-in/hook-up for equipment and fixtures furnished and installed by others as indicated in the Documents.		
22.	Electrical Contractor is responsible for any and all work listed under Division 26.		
23.	All empty conduit raceways will require pull strings. Conduits that are to remain empty are to have pull strings and shall be labeled as such on both ends.		
24.	Provide and install connections to the elevator as necessary.		
25.	All building utilities under this scope for work shall be installed to extend 5' from the exterior building wall, unless otherwise specified, and shall be tested and capped; Obtain WT signoff on this work.		
26.	Include all excavation and backfill for underground utilities located within 5' of the building exterior wall.		
27.	Furnish and install all surge protection devices as required.		
28.	Provide electrical connections for all sprinkler taper switches, floor switches, and valve monitor switches furnish and installed by others.		
29.	Provide all rooftop conduit supports as required. Coordinate installation with #07A Roofing subcontractor.		
30.	Subcontractor shall install/remove circuit breakers and pigtails for subcontractors including but not limited to misc. metals, structural steel, concrete, subcontractor (whip supplied by others). Provide labor to perform electrical outages to tie in and remove whips if required.		
31.	Furnish, install, and later remove temporary lighting throughout the area of work. Temporary lighting to be installed in accordance with anticipated partition layout to provide per OSHA requirements, but not less than 2 foot-candles at any location in the building. Fixtures shall be LED.		
32.	Furnish, install, and later remove temporary power stands throughout the area of work: minimum eight outlets (two quad boxes) at the north and south end of each floor. All temporary wiring is to be MC cable or hard/extra hard rated cable. The use of Romex is not permitted.		
33.	Subcontractor shall provide a temporary power connection to the Whiting-Turner conference trailer and field office trailer (located at CFM Building, north of the parking entrance). Feeder shall be suspended safely above sidewalks or installed in a manner that does not impede pedestrian traffic. Remove temporary wiring at the project completion. Additionally, furnish & install CAT5 wiring from a central location in the Whiting-Turner trailer to each office location.		
34.	Temporary power for elevator installation.		
35.	Furnish & install all new interior and exterior light fixtures and associated lighting controls for a complete and fully functioning system. Connect existing lights to new controls as indicated/required at the Scandrett House.		
36.	Interior and exterior lighting, including all hangers, brackets, supports, wiring, ballasts, drivers, lamps, etc. for a fully functioning system as required.		
37.	Furnish and install all vacancy/occupancy sensors and reply power packs as		

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	specified.		
38.	Aiming/spotting of directional lighting as instructed by Architect if required.		
39.	Furnish and install a complete fire alarm system including, but not limited to, all conduit wiring, backboxes, booster panels, control panels, annunciator panels, smoke detectors, heat detectors, pull stations, strobes, audible alarms, audio/visual alarms, and cover plates as required. Perform all testing required by governing agencies. Coordinate tie-in to existing Scandrett House.		
40.	Final fire alarm testing should include the existing system and all devices, whether new or existing.		
41.	Connect sprinkler system to fire alarm system. Include all flow switches, tamper switches, etc. and associated wiring.		
42.	Furnish all duct-mounted smoke detectors to be installed by the mechanical subcontractor. Connect smoke detectors to the fire alarm system. Furnish & install all required relays, modules, etc.		
43.	Mark all fire alarm wiring/conduit as required by code.		
44.	Furnish & install all fire stopping / fire caulking as indicated on the contract documents and as required per code for this contractor's work.		
45.	Subcontractor shall include GPR and/or X-Raying of all concrete slabs prior to sawcutting, core drilling, or creating any other penetration. Coordinate core drill locations with engineer of record. Provide sleeves where required in new concrete slabs, walls and CMU.		
46.	Subcontractor shall take extreme care when working around the finish work of other trades. The cost of repairing and/or replacing work of others damaged by this subcontractor to the finish work of others shall be backcharged to this subcontractor.		
47.	Subcontractor shall be responsible for all owner training pertaining to this scope of work as indicated in the contract documents.		
48.	Contractor will have inspections by local jurisdictions and authorities and 3rd party inspectors scheduled as to meet the CM's schedule. The contractor will notify the CM of inspection date and time.		
49.	Provide all cutting, patching and sealing of openings required for the proper installation of this Contractor's Work.		
50.	Furnish access panels required for this scope of work for installation by others.		
51.	Provide all labor, standby mechanics, and equipment for all testing and startup.		
52.	Participate in commissioning coordination, documentation, testing, etc. as required per the specifications and Contract Documents.		
53.	Identification devices (labels and tags).		
54.	Review equipment suppliers "recommended installation procedures" to ensure that the design complies with manufacturer's space clearances and clearances established by local authorities for maintenance and service.		
55.	Obtain and pay for any permits required by local jurisdiction or other governing authority to complete the work. This shall include all permits not covered under the general building permit.		
56.	Touch-up all damages to factory applied finishes.		
57.	Subcontractor shall be responsible for all hoisting, scaffolding, lifting, temporary bracing, etc. as needed to complete this scope of work.		
58.	Subcontractor has included all mobilizations necessary to accomplish this scope of work in accordance with the project schedule.		
59.	All layout is included.		
60.	Haul offsite all surplus materials. Place all debris and waste materials in dumpsters provided by WT.		
61.	Provide all specified warranties. Warranties are to begin from date of project substantial completion and last for one (1) year. This includes all labor performed and all materials provided and/ or installed in conjunction with this project.		
62.	Coordinate with other trades as required.		

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## *Pricing Breakdown as Follows:*

- Administration Power \$ \_\_\_\_\_
- Administration Lighting \$ \_\_\_\_\_
- C.F.M Power \$ \_\_\_\_\_
- C.F.M Lighting \$ \_\_\_\_\_
- Site Lighting \$ \_\_\_\_\_
- Pond Pavilion Power \$ \_\_\_\_\_
- Pond Pavilion Lighting \$ \_\_\_\_\_
- Restroom Pavilion Lighting \$ \_\_\_\_\_
- Restroom Pavilion Power \$ \_\_\_\_\_
- Ticketing Power \$ \_\_\_\_\_
- Ticketing Lighting \$ \_\_\_\_\_
- Scandrett House Disconnect/Make Safe \$ \_\_\_\_\_
- Canopy/Group Shelter Power \$ \_\_\_\_\_
- Canopy/Group Shelter Lighting \$ \_\_\_\_\_

***Total (Include Bond Over \$100k) = \$ \_\_\_\_\_***