

- b. The General Construction Work Contract shall perform all necessary trenching and excavation, backfilling, and compaction and field required concrete for all other primes.
 - c. Provide ALL wiring to ALL HVAC equipment. (Install motor controllers/disconnects supplied by HVAC Contract)
 - d. Provide power to all ADA hardware and electric hardware shown in door hardware schedule. Provide control wiring and connection for electrified door hardware
 - e. Provide all interior and exterior lighting including lighting control.
 - f. Provide all fire alarms, CATV, and networking systems.
 - g. Provide public address systems, including full installation and training.
 - h. Provide all cutting and patching required installing all electrical fixtures, devices, wire and conduit.
 - i. Provide all fees required for inspections and permits.
 - j. Provide support framing for Electrical equipment and conduits.
 - k. Furnish access doors for electrical access (to be installed by GC)
 - l. Provide firestopping and sealing of all electrical penetrations
 - m. Provide owner training
 - n. Provide telecommunications
 - o. Provide and maintain a temporary electric service, including lighting and power, for the site office trailers off the temporary service being provided above. Maximum of 1 trailer per Prime Contractor. Each trailer to have a 100 amp, 240 Volt single-phase connections. Assume a diversified peak connected load factor of 12KW per trailer. For the Construction Manager's Office Trailer see Section 01 5213.
- 6. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
 - 7. Provide multiple shift work as needed to complete work as shown on milestone schedule. Schedule shows a significant amount of work to be performed second shift. ***"Two Work Shifts" will be required to perform the scheduled work.***

B. The Work of the Electrical Work Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:

- 1. Division 0 –Procurement and Contracting Requirement, all Sections.
- 2. Division 1 –General Requirements all Sections, including Temporary Facilities indicated
- 3. Division 7- Thermal and Moisture Protection, Section 07 84 00, Firestopping Systems, and Section 07 90 05, Joint Sealers, as required for the Work of this Contract
- 4. Division 11 - All sections as relates to this contract for power connections to equipment.
- 5. Division 12 – All sections as relates to this contract for power connections to equipment.
- 6. Division 14- All sections as relates to this contract for power connections to equipment.
- 7. Division 21 - All sections as relates to this contract for power connections to equipment.
- 8. Division 22 - All sections as relates to this contract for power connections to equipment.
- 9. Division 23 - All sections as relates to this contract for power connections to equipment.
- 10. Division 26 - Electrical - All Sections.
- 11. Division 27 - Communications - All Sections.
- 12. Division 28 – Electronic Safety and Security - All Sections.

1.12 CONTRACT 5 - PLUMBING WORK CONTRACT

- A. The Work of the Plumbing Work Contract includes but is not limited to, the following descriptions:
1. Drawings:
 - a. All "P & PD" series Drawings (General)
 - b. All "L" series Drawings (as it relates to plumbing work)
 - c. All "AS, AR, AD, A, " series Drawings (as it relates to plumbing work)
 - d. All "FSE" series Drawings (as it relates to plumbing work)
 2. Coordination:
 - a. Coordination with the work of all the other contractors.
 3. Demolition:
 - a. Removal of items as shown and/or required. Remove items to the point of attachment to the plaster walls, cut straps or other carriers and remove items, leave attachment in place. Coordinate shutoffs with General Contractor during demolition.
 - b. All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, sawcuts, lintels (furnish and install), drywall work, plaster work, grouting, painting, ceiling removal and replacement, etc. All excavation work required for this contract is by this contract, except in the new addition footprint.
 4. Temporary Facilities
 - a. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 50 00, "Temporary Facilities and Controls" including temporary toilet facilities.
 - b. Provide temporary portable chemical toilets for all construction personnel, as per OSHA standards. Provide toilet facilities at the construction manager's office as per Section 01 5213 Field Offices.
 5. Construction:
 - a. **In existing construction**, each Prime Contractor is to provide their own rough opening in walls, and floors, including lintels and any required structural framing for penetrations as part of their own Prime Contract. All lintels and / or framing are to be sized in accordance with the lintel schedules and standard details within the contract documents unless specifically shown to be under the General Construction Contract. Installation is to be performed by a mechanic qualified and experienced with the materials and finishes being altered or installed. Submit to the Construction Manager the name and qualification of the subcontractor performing the installation prior to starting the work.
 - b. The General Construction Work Contract shall perform all necessary trenching and excavation, backfilling, and compaction and field required concrete for all other primes.
 - c. Provide water, gas, vacuum, and acid waste lines and connect to all fixtures provided under the Casework and Lab Equipment contract at the science classrooms.
 - d. Provide water distribution pumps, meters and gauges as needed.
 - e. Provide all insulation, painting and labeling of new plumbing piping.
 - f. Provide all hot and cold-water piping to other Contractor provided sinks, faucets and appliances. Make all final connections.
 - g. Provide all testing, balancing and disinfection of all new and modified plumbing systems.
 - h. All fees required for inspections and permits.
 - i. Provide support framing for plumbing equipment.
 - j. Furnish access doors for plumbing access (to be installed by GC)
 - k. Provide firestopping and sealing at all plumbing penetrations.

6. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
 7. Provide multiple shift work as needed to complete work as shown on milestone schedule. Schedule shows a significant amount of work to be performed second shift. ***“Two Work Shifts” will be required to perform the scheduled work.***
- B. The Work of the Plumbing Work Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:
1. Division 0 – Procurement and Contracting Requirement, all Sections.
 2. Division 1 –General Requirements all Sections, including Temporary Facilities indicated
 3. Division 7- Thermal and Moisture Protection, Section 07 84 00, Firestopping Systems, Section 07 90 05, Joint Sealers, as required for the Work of this Contract
 4. Division 22 -All sections

1.13 CONTRACT 6 - HAZARDOUS MATERIAL ABATEMENT CONTRACT

- A. Work of this Contract includes, but is not limited to, the following descriptions:
1. Includes Hazardous Materials abatement/removal plus other construction operations traditionally recognized as Hazardous Materials Construction. This includes, but is not limited to, *all work shown* on the “AA” Drawings, and any applicable information shown on all other drawings. It also includes administrative and coordination responsibilities.
 2. Drawings:
 - a. All “AA” series Drawings (Hazardous Materials)
 3. Coordination:
 - a. Coordination with the work of all the other contractors.
 - b. Coordinate with Electrical Contractor to hook-up and remove temporary panels.
 4. Demolition:
 - a. Asbestos containing material removal as shown in the contract documents and disposal per Code Rule 56.
 - b. Remove windows indicated on the drawings as asbestos abatement.
 - c. Remove all plaster, adhesive, caulk, VAT, TSI, blackboards, mirrors, gaskets and membranes as shown in the documents. Remove interior wythe of brick and mastic at all new exterior wall openings.
 - d. Remove interior wythe of brick at new openings, as asbestos containing material.
 - e. Provide abatement of all identified Lead Based Paint as shown in the contract documents.
 5. Temporary Facilities
 - a. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 50 00, “Temporary Facilities and Controls”
 - b. Provide temporary shoring at new openings.
 - c. Construction of all hard barriers separating abatement area from other areas.
 6. Construction:
 - a. Provide temporary weather tight and secure closure panels at building openings.
 7. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
 8. Provide multiple shift work to complete work as shown on milestone schedule. Schedule shows a significant amount of work to be performed second shift. No Hazardous Materials Work will be performed during the school year. ***“Two Work Shifts” are required to perform the scheduled work.***