

03 Building Concrete Footings. The work includes but is not limited to the following:

I. Mobilization

- a. The work includes mobilization of trucks machinery, equipment and tools to construct building concrete footing work
- b. If onsite storage or parking is required this sub will work with the superintendent for accommodations

II. Material Handling

- a. The work includes ordering and receiving of materials and supplies that the sub or the General Contractor purchases for the work.
- b. The sub will provide all machinery for lifting and unloading materials and equipment
- c. The sub will order the materials and supplies it needs for a given module and avoid over-ordering and stockpile on site.

III. Material

- a. The sub will provide all “L” block and sand and mortar for its work when trench footings and slab on grade construction is used
- b. The sub will provide all reinforcing steel for it’s work
- c. The sub will provide all concrete redi-mix for its work
- d. The sub will provide all misc. expendable materials such as nails, chalk, saw blades, finishing trowel blades
- e. The sub will provide all fuel and oil for equipment

IV. Concrete work

- a. This sub will work with the surveyor of record to survey and pin building corners and lines in a way to accommodate the trenching process
- b. The sub will inspect the building pad sub grade to ensure that it is wide and flat enough for the performance of the trenching work or the digging of the basement as required
- c. The work includes trenching, crumming, and compacting building earth-formed foundation trenches and digging for wall construction in basement situations and for backfilling and site grading after trenches or walls are poured.
- d. The work includes the placement of reinforcing bar as per approved detail
- e. The work includes pouring the trench footing, or railed footing and finishing it’s surface flat to receive the slab or wall forms
- f. The work includes the installation of the floor-to-wall “hair pins” and dowel pins as shown or required
- g. The work includes installing open web ”L” shaped concrete “construction block forming” at the building perimeter when slab on grade work is required
- h. The work includes anchor bolt layout and bolt or strap installation
- i. The work includes damp proofing and wall and floor insulation that may be required
- j. The work includes cleaning up left over concrete spillage and wash out concrete residue

- k. The work includes gathering left over rebar, mesh, forming lumber etc, and moving useable material to the next module of work and discarding dunnage to waste containers at the site
- l. The work includes the installation of rebar caps on all exposed reinforcement bars per osha

V. Cleaning

- a. The work area will be cleaned up daily; materials will be stacked in an organized manner to ensure that there are no trip hazards.
- b. At the conclusion of work at a given module, all form lumber and any debris generated by the concrete work will be discarded or salvaged and moved away from the work area to enable the next trade to mobilize and work.

VI. Protection of the work

- a. The installed work will be protected by placing barricades or caution ribbon to prevent intrusion
- b. The materials will be protected from heat and rains and wintry conditions. On hot days concrete-curing agents should be used in order to prevent expansion cracking or surface sprawling. In adversely wet or cold weather covering the work is a part of this scope.
- c. The GC will not be responsible for the care of concrete work in place.

VII. Winter Protection

- a. The cost for winter protection is not known with any degree of certainty. It is the GC's policy for this subcontractor to furnish heaters and blankets and visquene as required to ensure that work in place is protected from damage and to also cover building sub-grades at modules where sub grades are not protected from freeze.
- b. GC will provide all power and fuel for winter protection, the sub is to provide the heaters and blankets needed to maintain thaw.

VIII. Safety

- a. The work includes workmen on site who have been trained in OSHA safety requirements and who have the ability to recognize and unsafe act or condition and has the authority to stop work and make recommendations for improvements.

IX. Closeout

- a. There are no close out requirements for this subcontractor

X. Submittals

- a. As a part of the work this sub will make submittals on the following materials
 - i. Reinforcing steel
 - ii. Concrete mix designs

XI. Project schedule

- a. The schedule is comprised of the number of workdays required to complete work at a given building module. The superintendent will inform this subcontractor well in advance that he is ready for this scope to begin. After-which time this subcontractor will perform work to completion within the time constraints contractually agreed to. In other

words and as an example this Subcontractor agrees to complete scope in building number one in 10 days, he will be given notice to begin work and expected to be completed with that work within the given time constraint.

- b. The schedule shall be based on the enclosed duration schedule:

XII. Value Engineering

- a. Value-engineering is welcome and should be submitted as voluntary alternates in the bid