

Standard Electric and Communications Bid Item Descriptions

THESE BID ITEM DESCRIPTIONS SHALL SUPERCEDE ANY BID ITEM DESCRIPTIONS CONTAINED WITHIN UTILITY OWNER SUPPLIED SPECIFICATIONS ELSEWHERE IN THIS PROPOSAL.

EC ADJUST CONDUIT This item shall include all labor, equipment, and material to excavate, adjust, lower, and backfill the specified conduit at locations shown in the plans, in accordance with the specifications and standard drawings, complete and operational. These bid items shall include all necessary labor, equipment, and appurtenances, granular or concrete encasement, compacted earth or flowable fill backfill, etc. If a communication line is present within the conduit, the contractor shall use care in handling of the infrastructure, line and conduit. The line shall be lowered with the conduit. Any damage to the line shall be repaired at the contractor's expense. Flowable fill, if specified on the plans and specifications, shall be considered incidental to the items. No separate payment will be made for flowable fill, unless directed to be used contrary to plans and specifications. All excavation shall be unclassified. No additional payment will be made for rock excavation. Conduit shall be measured as the horizontal distance from outside face of structure to outside face of structure; or, to the point of conduit adjustment termination. No separate bid items will be provided due to varying conduit sizes. Any and all conduit sizes and configurations shall be paid under these items. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid LINEAR FEET (LF).

BOLLARDS This item is for payment for furnishing and installing protective guard posts at above-ground utility installations. A bollard may consist of, but is not limited to, a steel post set in concrete, or any other substantial post material. This item shall include all labor, equipment, and materials needed for complete installation of the bollard, as specified by the utility owner specifications and plans. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item paid EACH (EA) when complete.

NOTE: A bid code for this item has been established in standard roadway bid items and shall be used for payment of this item. The bid code is 21341ND.

EC CONCRETE PAD This item is for payment for the installation of a concrete pad for the mounting of electrical or communications equipment. The pad may be prefabricated or cast-in-place as the specifications, standard drawings, or plans allow. This item shall include all labor, equipment, excavation, materials, and backfill to install the specified concrete pad at the locations shown on the plans, in accordance with the specifications, standard drawings, and plans, complete and ready-for-use. If specifications, standard drawings, or plans require a granular base or reinforcement steel, such base or steel and their placement shall be considered incidental to this bid item. Any duct that is to be placed to the pad shall be installed prior to pad construction. Duct will be paid under separate bid items. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be measured and paid SQUARE YARD (SY) when complete.

EC DIRECTIONAL BORE Payment under this item is made whenever the plans or specifications specifically show directional boring is to be utilized to minimize the impact of open-cut for the installation of conduit under streets, creeks, etc. Payment under this item shall include the specified encasement pipe, conduit(s), void filler material (including grout, aggregate, bentonite, or other material

as specified), casing spacers (as specified), labor, and equipment. No separate payment will be made for encasement pipe and/or conduits used within the limits of the directional bore. Payment under this item shall not be size specific and no separate bid items will be established for size or number of conduit variations to be installed. The encasement pipe, conduit sizes, and conduit numbers to be included under this item shall be as shown on the plans and/or in the specifications. Any and all directional bores in each contract shall be paid under one directional bore bid item included in the contract, regardless of bore size, encasement size, conduit size, or number of conduits. Some bores may not require the use of an encasement, but may only require pulling the conduit directly into the bore. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid LINEAR FEET (LF).

EC DUCT These items shall include all labor, equipment, and material to excavate, install, and backfill the specified bank of duct at locations shown in the plans, in accordance with the specifications and standard drawings, complete and ready-for-use. These bid items shall include all necessary

appurtenances, connections, fittings, plugs, tees, bends, collars, racks or spacers, pull string, granular or concrete encasement, compacted earth or flowable fill backfill, etc. Flowable fill, where specified on the plans and specifications, shall be considered incidental to the duct items. No separate payment will be made for flowable fill, unless directed to be used contrary to plans and specifications. All excavation shall be unclassified. No additional payment will be made for rock excavation. Duct shall be measured as the horizontal distance from outside face of structure to outside face of structure; or, to the point of duct termination at dead ends or poles. No additional payment will be made for vertical conduit. No separate bid items will be provided due to varying duct sizes. Any and all duct sizes and configurations shall be paid under these items. The only variations in bid items shall be in the number of ducts in a bank and if the duct is or is not to be concrete encased. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid LINEAR FEET (LF).

EC ELECTRIC MANHOLE, ELECTRIC PIT, ELECTRIC PULL BOX, ELECTRIC VAULT, COMMUNICATIONS MANHOLE, COMMUNICATIONS PULL BOX These items shall include all labor, equipment, excavation, materials, and backfill to install the specified manhole, pit, vault or pull box at the locations as shown on the plans, in accordance with the specifications and standard drawings, complete and ready-for-use. No separate bid items will be provided for varying sizes of these structures. All structures shall be paid under the appropriate bid items regardless of size. Where the specifications, plans, or standard drawings specify a granular base be placed under these structures, these bid items shall include the materials and construction of the granular base. Where structures are specified to be backfilled with flowable fill, the cost of the flowable fill shall be considered incidental to the bid item. Payment under these items shall be made regardless of whether the structure is precast or cast-in-place as the plans, specifications, or standard drawings may require. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. These items shall be paid EACH (EA) when complete.

EC LINE MARKER This item is for payment for furnishing and installing an electric or communications utility line marker, as specified by the utility owner specifications and plans. A line marker may consist of a post or monument of whatever materials specified and shall include markings and/or signage on same, as specified by plans or specifications. This item shall include all labor, equipment, and materials needed for complete installation of the marker. This item shall be paid EACH (EA) when complete.

EC POLE REMOVE This item shall include all labor and equipment required for the removal of a wood, steel, or other type utility pole, regardless of material or size. No separate pole removal bid items will be provided for variations of pole material, type, or size. This item also includes removal of any associated attachments to the pole including, but not limited to, cross-arms, hangers, brackets, insulators, downguys, in-ground anchors, etc. All removed materials shall be disposed of by the contractor. This item shall be paid EACH (EA) when complete.

EC POLE REMOVE AND STOCKPILE This item shall include all labor and equipment required for the removal of a wood, steel, or other type utility pole, regardless of material or size. No separate pole removal bid items will be provided for variations of pole material, type, or size. This item also includes removal of any associated attachments to the pole including, but not limited to, cross-arms, hangers, brackets, insulators, downguys, etc. All removed materials shall be stockpiled on-site at a location or locations previously agreed to between the utility owner and contractor, for pickup and disposal by the

utility owner. Stockpile locations shall be accessible to the utility owner's road vehicles. Any pole removed that still has cross-arms, protruding insulators, and/or protruding brackets attached shall have such items removed by the contractor so poles can be stacked neatly for pickup. Removed cross-arms, insulators, and brackets shall be stacked separately for pickup. This item shall be paid EACH (EA) when the poles and attachments are stockpiled and ready for pickup.

EC STRUCTURE ABANDON/REMOVE This item is to be used to pay for abandonment, removal, or partial removal and disposal of larger concrete or steel above or below ground electrical or communications structures, such as, but not limited to, manholes, vaults, pits, concrete pull boxes, huts, sheds, small buildings, etc. Payment under this item shall not be limited by size or scope. Payment under this item shall include all labor, equipment, and compacted backfill or flowable fill for abandonment or removal of the underground or above-ground structure and complete restoration. Underground structures to be abandoned or partially removed shall be safeloaded with flowable fill. An underground structure may be abandoned and/or partially removed if the structure is removed to at least 12 inches below final grade or 12 inches below subgrade if under pavement, and the remainder of the structure is not in conflict with other road construction or utility installations. The engineer shall determine if an underground structure requires partial or total removal, or if it can remain partial or whole and safeloaded. Above ground structures shall be removed in total, including any associated base. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

Removal of small underground composite or plastic structures, such as pull boxes, shall not be paid under this item. Due to the ease of removal and disposal of small composite or plastic structures, their removal and disposal shall be considered incidental to road construction.