SECTION 012700 – DEFINITION OF CONTRACT LINE ITEMS

PART 1 - GENERAL

1.1 SUMMARY

A. The intent of this section is to explain, in general, what is and what is not included in a contract line item, and the limits or cut-off points where one item ends and another begins.

B. If no contract line item exists for a portion of the work, include the costs in a related item.

C. Contractor shall assume mobilization and demobilization by way of vehicle access along paved and unpaved roads approximately 60 miles from the nearest population center.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 LIST OF CONTRACT LINE ITEMS

A. CONTRACT BASE BID LINE ITEM NO. 1 – ADIT BACKFILL

1. This item consists of all work associated with backfilling mine adits of an approximate size of 5 feet wide and 7 feet in height. Work includes, but is not limited to: mobilization and demobilization, preparation of site, earthwork, and all other work required for a complete installation. For bidding purposes, Contractor shall assume that suitable backfill material is available for use from dump piles in the general area of the work site.

B. CONTRACT BASE BID LINE ITEM NO. 2 – SHAFT BACKFILL

1. This item consists of all work associated with backfill mine shafts of an approximate size of 6 feet wide and 8 feet long. Work includes, but is not limited to: mobilization and demobilization, preparation of site, earthwork, and all other work required for a complete installation. For bidding purposes, Contractor shall assume that suitable backfill material is available for use from dump piles in the general area of the work site.

C. CONTRACT BASE BID LINE ITEM NO. 3 – ADIT DRY LAID STONE WALL WITH BACKFILL

1. This item consists of all work associated with constructing a dry laid stone wall and backfilling mine adits of an approximate size of 5 feet wide and 7 feet in height. Work includes, but is not limited to: mobilization and demobilization, preparation of site, construction of dry laid stone wall, earthwork, and all other work required for a complete installation. For bidding purposes, Contractor shall assume that suitable stone and backfill material is available for use from dump piles in the general area of the work site.

D. CONTRACT BASE BID LINE ITEM NO. 4 – ADIT MORTARED STONE WALL

1. This item consists of all work associated with constructing a mortared stone wall in mine adits of an approximate size of 5 feet wide and 7 feet in height. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, construction of a native stone mortared wall, and all other work required for a complete installation. For bidding purposes, Contractor shall assume that suitable native stone is available for use from dump piles in the general area of the work site. Contractor shall include optional rebar in the lump sum price for this bid item.

E. CONTRACT BASE BID LINE ITEM NO. 5 – ADIT CONCRETE BLOCK WALL

1. This item consists of all work associated with constructing a concrete block wall in mine adits of an approximate size of 5 feet wide and 7 feet in height. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, construction of a concrete block wall, and all other work required for a complete installation. Contractor shall include optional rebar in the lump sum price for this bid item.

F. CONTRACT BASE BID LINE ITEM NO. 6 – ADIT ANGLE IRON BAT GATE

1. This item consists of all work associated with constructing an angle iron bat gate in mine adits of an approximate size of 5 feet wide and 7 feet in height. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, welding of gate materials, installation of gate, and all other work required for a complete installation.

G. CONTRACT BASE BID LINE ITEM NO. 7 – SHAFT ANGLE IRON BAT CUPOLA

1. This item consists of all work associated with installing an angle iron bat cupola over mine shafts of an approximate size of 6 feet wide and 8 feet long. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, welding of cupola materials, installation of cupola, and all other work required for a complete installation.

H. CONTRACT BASE BID LINE ITEM NO. 8 – ADIT ROUND BAR GATE

1. This item consists of all work associated with constructing a round bar gate in mine adits of an approximate size of 5 feet wide and 7 feet in height. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, welding of gate materials, installation of gate, and all other work required for a complete installation. Contractor shall include optional concrete footer in the lump sum price for this bid item.

I. CONTRACT BASE BID LINE ITEM NO. 9 – SHAFT REBAR CLOSURE

1. This item consists of all work associated with installing a rebar mat closure over mine shafts of an approximate size of 6 feet wide and 8 feet long. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, construction of concrete grade beams, installation of support beam, welding of materials, installation of rebar mat, and all other work required for a complete installation. Contractor shall include optional bat flyway option in the lump sum price for this item.

J. CONTRACT BASE BID LINE ITEM NO. 10 – SHAFT STEEL GRATE WITH I-BEAM SUPPORT CLOSURE

1. This item consists of all work associated with installing a welded steel grating closure over mine shafts of an approximate size of 6 feet wide and 8 feet long. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, installation of support beams, welding of materials, installation of grating, and all other work required for a complete installation. Contractor shall include optional bat flyway option in the lump sum price for this item.

K. CONTRACT BASE BID LINE ITEM NO. 11 – ADIT SQUARE BAR BAT GATE

1. This item consists of all work associated with constructing a square tubing bat gate in mine adits of an approximate size of 5 feet wide and 7 feet in height. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, welding of gate materials, installation of gate, and all other work required for a complete installation.

L. CONTRACT BASE BID LINE ITEM NO. 12 – SHAFT SQUARE TUBING BAT CUPOLA

1. This item consists of all work associated with installing a square tubing bat cupola over mine shafts of an approximate size of 6 feet wide and 8 feet long. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, welding of cupola materials, installation of cupola, and all other work required for a complete installation.

M. CONTRACT BASE BID LINE ITEM NO. 13 – ADIT POLYURETHANE FOAM (PUF) CLOSURE WITH BACKFILL

1. This item consists of all work associated with constructing a polyurethane foam plug in mine adits of an approximate size of 5 feet wide and 7 feet in height and then backfilling the adit on the exterior side of the plug. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, construction of a temporary form, mixing and placing PUF plug, earthwork, and all other work required for a complete installation. For bidding purposes, Contractor shall assume that suitable backfill material is available for use from dump piles in the general area of the work site.

N. CONTRACT BASE BID LINE ITEM NO. 14 – SHAFT POLYURETHANE FOAM (PUF) CLOSURE WITH BACKFILL

1. This item consists of all work associated with constructing a polyurethane foam plug in mine shafts of an approximate size of 6 feet wide and 8 feet long and then backfilling the shaft on the exterior side of the plug. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, construction of a temporary form, mixing and placing PUF plug, earthwork, and all other work required for a complete installation. For bidding purposes, Contractor shall assume that suitable backfill material is available for use from dump piles in the general area of the work site. Contractor shall include the vent pipe depicted on the contract drawings in the lump sum price.

O. CONTRACT BASE BID LINE ITEM NO. 15 – ADIT CORRUGATED METAL PIPE IN POLYURETHANE FOAM (PUF) WITH BAT GATE

1. This item consists of all work associated with installing a corrugated metal pipe and bate gate in mine adits of an approximate size of 5 feet wide and 7 feet in height. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, installation of corrugated metal pipe, welding of gate materials, installation of gate, mixing and placing PUF, earthwork, and all other work required for a complete installation. For bidding purposes, Contractor shall assume that suitable backfill material is available for use from dump piles in the general area of the work site.

P. CONTRACT BASE BID LINE ITEM NO. 16 – SHAFT CORRUGATED METAL PIPE IN POLYURETHANE FOAM (PUF) WITH CUPOLA

1. This item consists of all work associated with installing a corrugated metal pipe in and constructing an angle iron bat cupola over mine shafts of an approximate size of 6 feet wide and 8 feet long. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, installation of corrugated metal pipe, mixing and placing PUF plug, earthwork, welding of cupola materials, and all other work required

for a complete installation. For bidding purposes, Contractor shall assume that suitable backfill material is available for use from dump piles in the general area of the work site.

Q. CONTRACT BASE BID LINE ITEM NO. 17 – WIRE NETTING CLOSURE

1. This item consists of all work associated with installing wire netting closures over mine shafts or stopes. For bidding purposes, Contractor shall assume that wire netting will be sized 15 foot square. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, installation of wire net, earthwork, and all other work required for a complete installation. For bidding purposes, Contractor shall include concrete cover for netting anchors in lump sum price.

R. CONTRACT BASE BID LINE ITEM NO. 18 – CHAINLINK BARB WIRE PERIMETER FENCE CLOSURE

1. This item consists of all work associated with installing chainlink fence with barb wire around mine openings. For bidding purposes, Contractor shall assume that the fence will be 6 feet in height and length will be 80 linear feet. Work includes, but is not limited to: mobilization and demobilization, preparation of the site, installation of fence and barb wire, earthwork, and all other work required for a complete installation.

S. CONTRACT BASE BID LINE ITEM NO. 19 – GENERAL CONDITIONS

1. This item consists of Contractor costs related to contract general conditions.

T. CONTRACT BASE BID LINE ITEM NO. 20 – OVERHEAD

1. This item consists of Contractor overhead costs.

U. CONTRACT BASE BID LINE ITEM NO. 21 – PROFIT

1. This item consists of Contractor profit costs.

V. CONTRACT BASE BID LINE ITEM NO. 22 – HELICOPTER TRANSPORT

1. This item consists of the hourly rates for helicopter transport of work crews and materials to remote sites. Helicopter shall have a minimum capacity of 1000 lbs and be capable of transporting an external sling load. This bid item includes all costs associated with helicopter transport including, but not limited to: mobilization, fuel, de-mobilization, sling assembly, and any other costs associated with helicopter transport to remote areas.

W. CONTRACT OPTION ITEM NO. 1 – CONCRETE GRADE BEAMS FOR SHAFT ANGLE IRON CUPOLAS, SHAFT REBAR CLOSURE, OR SHAFT STEEL GRATE CLOSURE.

1. This item consists of all work associated with installing a concrete grade beam around the perimeter of shaft closures as depicted on the contract drawings. Contractor shall assume a shaft opening size of approximately 6 feet wide by 8 feet long.

END OF SECTION 012700