

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_ PAGES

2. AMENDMENT/MODIFICATION NO. \_\_\_\_\_ 3. EFFECTIVE DATE \_\_\_\_\_ 4. REQUISITION/PURCHASE REQ. NO. \_\_\_\_\_ 5. PROJECT NO. *(If applicable)* \_\_\_\_\_

6. ISSUED BY \_\_\_\_\_ CODE \_\_\_\_\_ 7. ADMINISTERED BY *(If other than Item 6)* \_\_\_\_\_ CODE \_\_\_\_\_

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)* \_\_\_\_\_ (X) 9A. AMENDMENT OF SOLICIATION NO. \_\_\_\_\_  
 9B. DATED *(SEE ITEM 11)* \_\_\_\_\_  
 10A. MODIFICATION OF CONTRACT/ORDER NO. \_\_\_\_\_  
 10B. DATED *(SEE ITEM 11)* \_\_\_\_\_  
 CODE \_\_\_\_\_ FACILITY CODE \_\_\_\_\_

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
 (a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)* \_\_\_\_\_

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

|           |  |
|-----------|--|
| CHECK ONE | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: <i>(Specify authority)</i> THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.  |
|           | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES <i>(such as changes in paying office, appropriation date, etc.)</i> SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
|           | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:   |
|           | D. OTHER <i>(Specify type of modification and authority)</i>   |

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

|  |                  |   |                  |
|--|------------------|---|------------------|
| 15A. NAME AND TITLE OF SIGNER <i>(Type or print)</i> |                  | 16A. NAME AND TITLE OF CONTRACTING OFFICER <i>(Type or print)</i> |                  |
| 15B. CONTRACTOR/OFFEROR                              | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA                                     | 16C. DATE SIGNED |
| <i>(Signature of person authorized to sign)</i>      |                  | <i>(Signature of Contracting Officer)</i>                         |                  |

Item 14. Continued.

**CHANGES TO THE SPECIFICATIONS**

Replacement Sections - Replace the following section with the accompanying new section of the same number and title, bearing the notation "ACCOMPANYING AMENDMENT NO. 0002 TO SOLICITATION NO. DACA63-03-B-0015:"

SECTION 01020 DESCRIPTIONS OF BID ITEMS AND DRAWING DETAILS

END OF AMENDMENT

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**SECTION 01020**  
**DESCRIPTIONS OF BID ITEMS AND DRAWING DETAILS**

General Requirements

It is anticipated that costs for all general requirements of the proposed construction contract are included in each bid item. The Contractor's costs for each bid item are expected to include furnishing all labor, materials, equipment, insurance, bond, administrative, supervisory, scheduling, quality control, incidental services, support operations, temporary facilities and controls, temporary utilities, safety measures, control of ground water and surface water, site preparation, removal and off post disposal of materials and debris, clean up and site restoration as required by the contract documents to perform all work for the full completion of each bid item incorporated into the contract for this project.

Further, the costs are expected to include, but are not limited to, furnishing off post facilities for offices; for delivery, storage, laydown, and staging areas for construction materials and equipment; and parking space for employees, subcontractors, and vendors. It also includes all requirements for the necessary safeguards and protection of persons from danger within and near the work areas.

Bid Items

The following is a brief description of the proposed construction bid items to assist in making clear the actual scope of the work within each one, including specific work elements that are part of the item, identification of other related work, and the method of payment.

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BID ITEM 1

Drawing: none

STORM WATER POLLUTION PREVENTION PLAN (DO NOT INCLUDE PRICE IN BID SCHEDULE)

This Bid Item consists of labor, materials, equipment and incidentals necessary to provide erosion and sediment control for the duration of the construction period including furnishing, installing and maintaining erosion and sediment control structures and procedures along with the proper removal when no longer required. This Bid Item consists of all costs associated with adhering to all State, Federal and Local requirements associated with necessary Storm Water Pollution Plan. Payment for this Bid Item will be Lump Sum and negotiated for each delivery order.

BID ITEM 2

Drawing: None

EARTH BERMS

This bid item is for the construction and temporary turbing of earthen berms used as erosion control devices. Payment for this Bid Item will be per (linear meter) linear feet of earthen berm.

BID ITEM 3

Drawing: None

INSTALL AND REMOVE HAY BALES

This bid item consists of providing and staking down square hay bales used as erosion control devices. This item also includes the removal after use. Payment for this Bid Item will be per bale of hay.

BID ITEM 4

Drawing: None

SEDIMENT BASINS

This bid item consists of excavation of pits. The excavated material will be used to construct an earthen berm on two sides of the pit. Two to three hay bales will be staked at the back side. These will be used at the end of the turn-out and ditches as erosion control devices. Payment for this Bid item will be per sediment basin.

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BID ITEM 5

Drawing: None

DUST CONTROL

This bid item will consist of the watering of the site. This watering will be done by way of a water truck. The water is to be furnished by the government. Payment for this Bid Item will be per hour.

BID ITEM 6

Drawing: None

TEMPORARY MULCH

This bid item will be used for the temporary stabilization of soil for erosion control. It will include the blowing and crimping of hay. Payment for this Bid Item will be by the (hectare) acre.

BID ITEM 7

Drawing: None

SURVEY CREW

This bid item will consist of the services of a three-man survey crew. It will include all equipment and material necessary to do surveys in the field. Payment for this Bid item will be per hour.

BID ITEMS 8

Drawing: none

REMOVE CONCRETE CURB

This Bid Item consists of removing existing doweled on curb on pavement or other simple concrete curbs that need to be replaced because of damage due to erosion or because of access for other work. Two saw cuts and disposal of the broken concrete debris are incidental and included in this item. Payment will be by (linear meter) linear feet.

BID ITEM 9

Drawing: none

REMOVE CONCRETE CURB AND GUTTER

This Bid Item consists of removing existing integral concrete curb and gutter sections, typical for asphaltic pavements, that need to be replaced because of damage due to erosion or because of access for other work to be done. Any damage to the adjacent asphaltic pavement, vegetation, or other elements will be repaired or replaced as a part of this bid item. Disposal of the broken concrete debris is incidental and included in this item. Payment will be by (linear meter) linear feet.

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BID ITEM 10

Drawing: none

MISCELLANEOUS CONCRETE SAW CUT

This Bid Item consists of saw cuts in existing concrete pavements for streets, driveways, walkways, and other slabs where portions need to be removed because of damage due to erosion or because of access for other work to be done. The actual demolition and removal of the concrete is included in another bid item. Payment will be by (linear meter) linear feet.

BID ITEM 11

Drawing: none

MISCELLANEOUS ASPHALTIC SAW CUT

This Bid Item consists of sawcuts in existing asphaltic pavements for streets, driveways, walkways, and other slabs where portions need to be removed because of damage due to erosion or because of access for other work to be done. The actual demolition and removal of the asphaltic pavement is included in another bid item. Payment will be by (linear meter) linear feet.

BID ITEM 12

Drawing: none

REMOVE CONCRETE PAVEMENT (25-254mm) (1-10 inches)

This Bid Item consists of removing existing concrete pavements for streets and other slabs where portions need to be removed because of damage due to erosion or because of access for other work to be done. Disposal of the broken concrete and other debris is incidental and included in this item. Payment will be by the (square meter) square yard.

BID ITEM 13

Drawing: none

REMOVE ASPHALTIC PAVEMENT (25-254mm) (1-10 inches)

This Bid Item consists of removing existing asphaltic pavements for streets, driveways, walkways, and other locations where portions need to be removed because of damage due to erosion or because of access for other work to be done. Disposal of the broken asphaltic pavement and other debris is incidental and included in this item. Payment will be by the (square meter) square yard.

BID ITEM 14

Drawing: none

REMOVE CONCRETE / MASONRY STRUCTURES

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This Bid Item consists of removing existing concrete structures, including but not limited to concrete swales, slope pavement, inlets, headwalls and aprons, rubble, and any other broken concrete and structures not specifically identified, but need to be removed because of damage due to erosion or because of access for other work to be done. Disposal of the broken concrete and other debris is incidental and included in this item. Payment will be by the (cubic meter) cubic feet of concrete in place.

BID ITEM 15

Drawing: none

BUSH HOGGING

This Bid Item consists of mowing and clearing of brush and vegetative growth within an area of work, generally within road right-of-ways. Trees larger than (25mm) 1 inch caliper will be removed under separate bid items. Also, individual trees may be selected within the area to be saved and will be protected. Payment for bush hogging will be by the (hectare) acre.

BID ITEM 16

Drawing: none

REMOVE CONCRETE SIDEWALK

This Bid Item consists of removing existing concrete sidewalks where portions need to be removed because of damage due to erosion or because of access for other work to be done. Disposal of the broken concrete and other debris is incidental and included in this item. Payment will be by the (square meter) square feet.

BID ITEM 17

Drawing: none

REMOVE CONCRETE DRIVEWAY

This Bid Item consists of removing existing concrete driveways where portions need to be removed because of damage due to erosion, grades are incorrect and causing drainage problems, or because of access for other work to be done. Disposal of the broken concrete and other debris is incidental and included in this item. Payment will be by the (square meter) square feet.

BID ITEM 18 AND 19

Drawing: none

REMOVE STORM SEWER (305-457mm) (12-18 inches) and (610-914mm) (24-36 inches)

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These Bid Items consist of removing existing storm sewers of different sizes where portions need to be removed because of damage due to erosion, grades are incorrect and causing drainage problems, because of access for other work to be done, or because of needing replacement by larger pipes. Storm sewers to be removed may be reinforced concrete pipe or corrugated metal pipe. Disposal of the pipe and other debris is incidental and included in this item. Payment will be by the (linear meter) linear feet.

BID ITEM 20

Drawing: none

REMOVE EXISTING TREE STUMP

This Bid Item consists of removal and disposal of any existing tree stump and all roots that are in the area of work. Backfilling of any holes is included in this item as incidental to this work. Payment will be by each location for any size.

BID ITEMS 21 - 38

Drawing: none

REMOVE TREES

These Bid Items consist of removal and disposal of various size trees within the calipers indicated. Removal and off site disposal of each tree, stump, all roots larger than (100mm) 4 inches in diameter, and backfilling of any holes are all included in this item as incidental to this work. Payment will be by each tree within the caliper range indicated.

BID ITEMS 39 - 41

Drawing: none

CLEARING AND GRUBBING

These Bid Items are for three different situations; 1) burning allowed, 2) offsite removal with no burning allowed, and 3) new road construction on US Forest Service land. Cleared vegetation on US Forest Service land is to be laid outside the right of way limits as specified. Payment will be per (hectare) acre.

BID ITEM 42

Drawing: none

REMOVE SHRUB

This Bid Item consists of removal and off post disposal of any shrub as indicated on the drawings. These shrubs. Payment will be for each shrub removed.

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BID ITEM 43

Drawing: none

PROVIDE GENERAL EXCAVATION (CUT/FILL BALANCE)

This Bid Item consists of all common site excavation that is not incidental and included in other bid items. Excavation will be unclassified regardless of the nature of material encountered. It may include either a small amount or possibly a large amount of earth material removal. Payment will be by the (cubic meter) cubic yard of material in place. The extent of excavation will be shown on the detailed site drawings as required for the existing conditions and proposed drainage improvements and erosion control.

BID ITEM 44

Drawing: none

CONSTRUCT SELECT BACKFILL

This Bid Item consists of specified and approved select fill material from an offsite borrow site or pit and placed in loose lifts not to exceed (200mm) 8 inches and compacted as specified. Payment will be by the (cubic meter) cubic yard of material in place.

BID ITEM 45

DISPOSE EXCESS EXCAVATED MATERIAL

This Bid Item consists of the offsite hauling and disposal of excess unclassified material from general site excavation projects. Payment will be by the (cubic meter) cubic yard of material.

BID ITEM 46

Drawing: none

DESILT EXISTING STORM SEWER STRUCTURES

This Bid Item consists of removal and disposal of silt, vegetation, and debris out of existing earthen or concrete lined drainage channel or structure. Payment will be by the (square meter) square yard of material up to (150mm) 6 inches deep, as determined to be present within the structure and indicated on the drawings.

BID ITEM 47

Drawing: none

INSTALL GEOTEXTILES FOR EROSION CONTROL

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This Bid Item consists of the installation of geotextiles in accordance with Technical Specification 02274 used for separation and filter applications beneath erosion control structures, such as riprap and precast concrete block systems in open channels or other locations. Payment will be by (square meter) square yard.

BID ITEM 48

Drawing: none

INSTALL SOIL RETENTION BLANKET

This Bid Item consists of the installation of soil retention blankets in accordance with Texas Department of Transportation Specification Item 169. Payment will be by (square meter) square yard.

BID ITEM 49 - 54

Drawing: none

INSTALL GEOGRID FOR SOIL STABILIZATION

This Bid Item consists of the installation of geogrids for soil stabilization purposes in conjunction with roadways and parking areas and in soft ground stabilization techniques for embankment construction in accordance with Technical Specification 02265. Payment will be by the (square meter) square yard.

BID ITEM 55

Sequence No. 1

CONSTRUCT TYPE "A" INLET

This Bid Item consists of the complete installation of a new Type A drainage inlet. It may be a new location or the replacement of an existing one. This item includes all excavation, form work, reinforcing steel, concrete, mortar fill, cast iron frame and grate, specified backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The item does not include removal of an existing drainage inlet which is provided under another bid item. There may be a need for this type of area inlet in some locations where other inlets are not appropriate or practical. The depth of each inlet may vary depending upon the size of the largest pipe. Payment will be for each location.

BID ITEM 56

Sequence No. 2

CONSTRUCT TYPE "B" INLET

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This Bid Item consists of the complete installation of a new Type B drainage inlet. It may be a new location or the replacement of an existing one. This item includes all excavation, form work, reinforcing steel, concrete, mortar fill, cast iron frame and grate, specified backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The item does not include removal of an existing drainage inlet which is provided under another bid item, nor does it include cutting and removal of pavement and curbs for a new location. The depth of each inlet may vary depending upon the size of the largest pipe. Payment will be for each location.

BID ITEM 57

Sequence No. 3

CONSTRUCT TYPE "BB" INLET

This Bid Item consists of the complete installation of a new Type B-B drainage inlet that is similar to the Type B, but is a double inlet and twice the size. It may be a new location or the replacement of an existing one. This item includes all excavation, form work, reinforcing steel, concrete, mortar fill, cast iron frame and grate, specified backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The item does not include removal of an existing drainage inlet which is provided under another bid item, nor does it include cutting and removal of pavement and curbs for a new location. The depth of each inlet may vary depending upon the size of the largest pipe. Payment will be for each location.

BID ITEMS 58 - 63

Sequence No. 4 and Sequence No. 5

CONSTRUCT TYPE "C-1", "C-2", "C-3", "C-4", "C-5", "C-6" INLET

These Bid Items consist of the complete installation of new Type C-1, C-2, C-3, C-4, C-5, or C-6 drainage inlets. The variations are the size and number of openings in the curb. It may be a new location or the replacement of an existing one. The Contractor has the option of installing cast-in-place concrete or precast units. This item includes all excavation, prefabrication, form work, reinforcing steel, concrete, mortar fill, cast iron manhole frame and cover, specified backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The item does not include removal of an existing drainage inlet which is provided under another bid item, nor does it include cutting and removal of pavement and curbs for a new location. The depth of each inlet may vary depending upon the size of the largest pipe. Payment will be for each location for each type.

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BID ITEM 64

Sequence No. 6

CONSTRUCT TYPE "D" INLET

This Bid Item consists of the complete installation of a new Type D drainage inlet. It may be a new location or the replacement of an existing one. This item includes all excavation, form work, reinforcing steel, concrete, mortar fill, cast iron manhole frame and cover, specified backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The item does not include removal of an existing drainage inlet which is provided under another bid item. The depth of each inlet may vary depending upon the size of the largest pipe. Payment will be for each location.

BID ITEMS 65 - 67

Sequence No. 7

CONSTRUCT TYPE "A", "B", "C" BEEHIVE INLET

These Bid Items consist of the complete installation of a new beehive Type A, B, or C drainage inlet. The variations are the sizes of the cast iron inlet grate. It may be a new location or the replacement of an existing one. This item includes all excavation, form work, reinforcing steel, concrete, mortar fill, cast iron inlet frame and gate, specified backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The item does not include removal of an existing drainage inlet which is provided under another bid item, nor does it include cutting and removal of pavement and curbs for a new location. The depth of each inlet may vary depending upon the size of the largest pipe. Payment will be for each location for each type.

BID ITEMS 68 - 70

Sequence No. 8

CONSTRUCT CONCRETE HEADWALL (305-457mm PIPE) (12-18 inches PIPE)  
(610-762mm PIPE) (24-30 inches PIPE) (914-1219mm PIPE) (36-48 inches PIPE)

These Bid Items consist of cast-in-place reinforced concrete headwalls for storm drainage piping in two size groups as indicated. It includes all excavation, stabilizing subgrade, forms, reinforcing steel, concrete, finishing, curing, and testing. Payment will be by each location complete for each size pipe.

BID ITEM 71

Sequence No. 9

CONSTRUCT DITCH / SWALE INLET STRUCTURE

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This Bid Item consists of a concrete inlet structure located at the end of a ditch or swale to transfer water into an underground pipe or to transfer water from an upper level to a lower level. Payment will be for each complete structure.

BID ITEM 72

Sequence No. 10

CONSTRUCT BACKSLOPE INTERCEPTOR STRUCTURE

This Bid Item consists of a concrete inlet structure similar to the ditch/swale interceptor structure except it will be located within a ditch/swale. Payment will be for each complete structure.

BID ITEM 73

Sequence No. 11

CONSTRUCT CONCRETE MANHOLE (0-1.5M DEPTH) (0-5 feet DEPTH)

This Bid Item consists of shallow depth concrete manholes up to (1.5 meters) five feet deep. The Contractor has the option of installing cast-in-place concrete or precast units. Each manhole will be for any size of pipes within the pipe groups indicated. The bid item includes all excavation, prefabrication and shipping, forming, reinforcement, concrete, accessories, manhole frame and cover, cement stabilized and other backfill materials, mortar, and all incidentals necessary to complete the installation. Payment will be for each one installed complete.

BID ITEM 74

Sequence No. 12

CONSTRUCT CONCRETE MANHOLE (<1.5-2.4M DEPTH) (< 5-8 feet DEPTH)

This Bid Item consists of deep concrete manholes greater than (1.5 and up to 2.4 meters) 5 and up to 8 feet deep. The Contractor has the option of installing cast-in-place concrete or precast units. Each manhole will be for any size of pipes. The bid item includes all excavation, prefabrication and shipping, forming, reinforcement, concrete, accessories, manhole frame and cover, cement stabilized and other backfill materials, mortar, and all incidentals necessary to complete the installation. Payment will be for each one installed complete.

BID ITEM 75

Drawing: none

CONSTRUCT MANHOLE EXTRA DEPTH

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This Bid Item consists of extra depth of concrete manholes greater than (2.4 meters) 8 feet deep. Payment will be a unit price for each additional (meter) foot of depth greater than (2.4 meters) 8 feet.

BID ITEM 76

Sequence No. 13

INSTALL MANHOLE FRAME & COVER

This Bid Item consists of a standard manhole frame and cover that may be needed for a special structure not included in other bid items. Payment will be for each one used.

BID ITEM 77

Drawing: No. 14

INSTALL INLET FRAME & COVER

This Bid Item consists of a standard drainage inlet frame and grate, similar to the one used for Drainage Inlet - Type A, that may be needed for a special structure not included in other bid items. Payment will be for each one used.

BID ITEM 78

Drawing: none

ADJUST INLET RING & GRATE TO NEW GRADE

This Bid Item consists of removing the top of an existing drainage inlet and a section of the inlet in order to lower or raise it to a new grade. Payment will be by each location.

BID ITEM 79

Drawing: none

ADJUST MANHOLE RING & LID TO NEW GRADE

This Bid Item consists of removing the top of an existing manhole and a section of the manhole in order to lower or raise to a new grade. Payment will be by each location.

BID ITEMS 80 - 92

Sequence No. 15

INSTALL RCP (0 – 1.8M CUT IN SATISFACTORY SOIL) (0 – 6 ft CUT IN SATISFACTORY SOIL)

These Bid Items consist of several different sizes of RCP installed in satisfactory soil conditions up to (1.8 meters) 6 feet deep as indicated on the drawings. It includes all excavation, backfill, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

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BID ITEMS 93 - 105

Sequence No. 15

INSTALL RCP IN SATISFACTORY SOIL (BETWEEN 1.8-3.7M CUT)(BETWEEN 6-12 ft CUT)

These Bid Items consist of several different sizes of RCP installed in satisfactory soil conditions, as indicated on the drawings, for depths (over 1.8 and up to 3.7 meters) over 6 and up to 12 feet deep. It includes all excavation and backfill, additional precautions because of trench depths, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEMS 106 - 118

Sequence No. 15

INSTALL RCP IN SATISFACTORY SOIL (BETWEEN 3.7-6.1M CUT) (BETWEEN 12-20 ft CUT)

These Bid Items consist of several different sizes of RCP installed in satisfactory soil conditions as indicated on the drawings for depths (over 3.7 and up to 6.1 meters) over 12 and up to 20 feet deep. It includes all excavation and backfill, additional precautions because of trench depths, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEMS 119 - 131

Sequence No. 16

INSTALL RCP IN UNSATISFACTORY SOIL (0 – 1.8M CUT) (0 – 6 ft CUT)

These Bid Items consist of several different sizes of RCP installed in unsatisfactory soil conditions as indicated on the drawings. It includes all excavation and backfill, reinforced concrete seal slab, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEMS 132 - 144

Sequence No. 16

INSTALL RCP IN UNSATISFACTORY SOIL (1.8-3.7M CUT) (6-12 feet CUT)

These Bid Items consist of several different sizes of RCP installed in unsatisfactory soil conditions as indicated on the drawings. It includes all excavation and backfill, reinforced concrete seal slab, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEMS 145 - 157

Sequence No. 16

INSTALL RCP IN UNSATISFACTORY SOIL (3.7-6.1M CUT) (12-20 ft CUT)

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These Bid Items consist of several different sizes of RCP installed in unsatisfactory soil conditions as indicated on the drawings. It includes all excavation and backfill, reinforced concrete seal slab, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEMS 158 - 160

Similar to Sequence No. 15

INSTALL PVC PIPE (0 – 1.8M CUT) (0 – 6 ft CUT)

These Bid Items consist of several different sizes of PVC pipe installed in satisfactory soil conditions up to 1.8 meters deep as indicated on the drawings. It includes all excavation and backfill, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEMS 161 - 163

Similar to Sequence No. 15

INSTALL PVC PIPE (OVER 1.8-3.7M CUT) (OVER 6-12 ft CUT)

These Bid Items consist of several different sizes of RCP installed in satisfactory soil conditions as indicated on the drawings. It includes all excavation and backfill, additional precautions because of trench depths, reinforced concrete seal slab, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEM 164

Sequence No. 17

AUGER (102-254mm) 4-10 inches PVC PIPE (0-3.7M AUGER PIT DEPTH)  
(0-12 feet AUGER PIT DEPTH)

This Bid Item consists of (102 to 254mm) 4 to 10 inches PVC pipe installed under pavements by the auger method to maintain streets open for traffic, emergencies, and fire protection. It includes all excavation, backfill, additional precautions because of trench depths, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEM 165

Sequence No. 17

AUGER (305-457mm) 12-18 inches PVC PIPE (0-3.7M AUGER PIT DEPTH)  
(0-12 ft AUGER PIT DEPTH)

This Bid Item consists of (305-457mm) 12 to 18 inches PVC pipe installed under pavements by the auger method to maintain streets open for traffic, emergencies, and fire protection. It includes all excavation,

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backfill, additional precautions because of trench depths, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEM 166

Sequence No. 17

AUGER (610mm) 24 inches PVC PIPE (0-3.7M AUGER PIT DEPTH) (0-12 ft AUGER PIT DEPTH)

This Bid Item consists of (610mm) 24 inches PVC pipe installed under pavements by the auger method to maintain streets open for traffic, emergencies, and fire protection. It includes all excavation, backfill, additional precautions because of trench depths, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEM 167

Similar to Sequence No. 17

BORE & JACK (305mm) 12 inches RCP PIPE (0-3.7M PIT DEPTH) (0-12 ft PIT DEPTH)

This Bid Item consists of (305mm) 12 inches Reinforced Concrete Pipe installed under pavements by the bore & jack method to maintain streets open for traffic, emergencies, and fire protection. It includes all excavation, backfill, additional precautions because of trench depths, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEM 168

Similar to Sequence No. 17

BORE & JACK (457mm) 18 inches RCP PIPE (0-3.7M PIT DEPTH)(0-12 ft PIT DEPTH)

This Bid Item consists of (457mm) 18 inches Reinforced Concrete Pipe installed under pavements by the bore & jack method to maintain streets open for traffic, emergencies, and fire protection. It includes all excavation, backfill, additional precautions because of trench depths, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

BID ITEM 169

Similar to Sequence No. 17

BORE & JACK (610mm) 24 inches RCP PIPE (0-3.7M PIT DEPTH) (0-12 ft PIT DEPTH)

This Bid Item consists of (610mm) 24 inches Reinforced Concrete Pipe installed under pavements by the bore & jack method to maintain streets open for traffic, emergencies, and fire protection. It includes all excavation, backfill, additional precautions because of trench depths, and pipe. Payment will be by (linear meter) linear feet for each size of pipe indicated.

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BID ITEM 170

Sequence No. 18

REPAIR ASPHALTIC PAVEMENT

This Bid Item consists of asphaltic pavement repair where there is an open cut for a pipe crossing, or other location. The installation of pipe under the pavement is a separate bid item. Payment for asphaltic pavement repair is on the (square meter) square yard basis.

BID ITEMS 171 - 173

Sequence No. 19

PLACE ASPHALTIC PAVEMENT

Thess Bid Items consist of prime coat, tack coat, and pavement surface course of a compacted mixture of graded coarse and fine aggregates and asphaltic material as specified. Payment is on the (square meter) square yard basis.

BID ITEM 174

Sequence No. 20

INSTALL REINFORCED CONCRETE CURB & GUTTER

This Bid Item includes either the reinforced concrete monolithic curb and gutter and the mountable curb type. It includes preparation of subgrade, forms, reinforcing steel, expansion joint materials, concrete, finishing, and curing. Payment will be by (linear meter) linear feet.

BID ITEM 175

Sequence No. 21

REPAIR REINFORCED CONCRETE PAVEMENT

This Bid Item consists of concrete pavement repair where there is an open cut for a pipe crossing, or other location. This item includes saw cutting, concrete removal, new concrete, reinforcing steel, and joint sealant. The installation of pipe under the pavement is a separate bid item. Payment for concrete pavement repair is on the (square meter) square yard basis.

BID ITEMS 176 - 178

Sequence No. 22

CONSTRUCT REINFORCED CONCRETE PAVEMENT (152, 203, and 254mm) 6, 8, and 10 inches depth

These Bid Items consist of portland cement concrete pavements (excluding turning pads and low water crossings covered in other Bid Items) in several thicknesses as indicated on the drawing and as specified.

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Included are all side forms, reinforcing steel and supports, dowels for curbs, expansion joint materials, control joints, finishing, curing, and testing. Payment is on the (square meter) square yard basis for each thickness indicated.

BID ITEM 179

Sequence No. 23

CONSTRUCT REINFORCED CONCRETE SIDEWALK

This Bid Item consists of reinforced portland cement concrete walks along streets and in other locations. It includes preparation of the graded and compacted subgrade, cement stabilized sand base, all side forms, reinforcing steel and supports, expansion and contraction joints, control joints, finishing, curing, and testing. Payment is on the (square meter) square yard basis.

BID ITEM 180

Sequence No. 24

CONSTRUCT SIDEWALK UNDERDRAIN & COVER

This Bid Item consists of the construction of a special section of cast-in-place reinforced concrete with a steel plate cover for drainage under a sidewalk. Payment will be for each location.

BID ITEM 181

Sequence No. 25

CONSTRUCT CONCRETE SWALE - Type "A"

This Bid Item consists of a cast-in-place reinforced concrete swale as shown on the drawings. Payment will be by (linear meter) linear feet.

BID ITEM 182

Sequence No. 26

CONSTRUCT CONCRETE SWALE - TYPE "B"

This Bid Item consists of a cast-in-place reinforced concrete swale that varies in width. Payment will be by the (square meter) square feet.

BID ITEM 183

Sequence No. 27

CONSTRUCT GRASS SWALE

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This Bid Item consists of grading of a drainage swale within the housing area as located on the detailed site drawings. Payment will be by the (linear meter) linear feet. Solid sod grass is included in this pay item.

BID ITEM 184

Sequence No. 28

CONSTRUCT CONCRETE TRAPEZOIDAL DITCH

This bid item consist of grading and constructing the drainage ditch in accordance with the drawings. Payment is by the (square meter) square feet.

BID ITEM 185

Sequence No. 29

CONSTRUCT GRASS TRAPEZOIDAL DITCH

This bid item consist of grading and constructing the drainage ditch in accordance with the drawings. Payment is by the (square meter) square feet.

BID ITEMS 186 - 188

Drawing: none

PLACE TOPSOIL

These Bid Items consist of furnishing and spreading topsoil in all areas designated by the drawings for separate bid items and the detailed site drawing. Payment will be by the (square meter) square yard for the placed and compacted into place.

BID ITEMS 189 - 191

Drawing: none

PLACE HYDROMULCH SEEDING

These Bid Items consist of seeding, fertilizing, mulching, and maintaining of areas as specified and as indicated on the detailed site drawings. It includes verification of placement and raking for preparation of topsoil before applying the hydromulch seeding. Payment will be on a (square meter) square yard basis.

BID ITEMS 192 - 194

Drawing: None

ESTABLISHMENT OF TURF

These Bid Items consist of seeding, fertilizing, mulching, and maintaining of areas as specified and as indicated on the detailed site drawings. It includes verification of placement and raking for preparation of topsoil before establishment of turf. Payment will be on a (square meter) square yard basis.

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BID ITEMS 195 - 196

Drawing: none

PLACE SOLID SODDING

These Bid Items consist of furnishing and installing solid sod grass in areas that are disturbed by other work or designated on the drawings to receive solid sod. It includes verification of placement and raking for preparation of topsoil, furnishing and applying bank sand, fertilizer, tamping and rolling, watering and mowing as specified. Payment will be on a (square meter) square yard basis.

BID ITEM 197

Drawing: none

POINT REPAIR STORM SEWER (305-610mm) (12-24 inches)

This Bid Item consists of excavation and repair of broken or open joints in (305-610mm) 12-24 inches RCP, and backfill in accordance with section 02763 of the specifications. Payment will be for each location.

BID ITEM 198

Drawing: none

POINT REPAIR STORM SEWER (762-1372mm) (30-54 inches)

This Bid Item consists of excavation and repair of broken or open joints in (762-1372mm) 30-54 inches RCP, and backfill in accordance with section 02763 of the specifications. Payment will be for each location.

BID ITEM 199

Drawing: none

REMOVE CHAIN-LINK FENCE

This Bid Item consists of the removal of existing chain-link fences in order to prepare for new grading elevations for proper drainage of yard areas. Payment for removal and disposal of existing chain-link fencing will be done by (linear meter) linear feet of fence. Replacement of the fence will be done by a separate bid item listed elsewhere.

BID ITEM 200

Sequence No. 30

INSTALL CHAIN LINK FENCE

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This Bid Item consists of the installation of chain-link fencing, including new posts set into concrete footings, diamond mesh, gate, and all other work adjacent and incidental that is required for a complete and finished installation. This detail will be used where a limited amount of fence is to be replaced. Payment will be by (linear meter) linear feet of fence.

BID ITEM 201

Sequence No. 31

INSTALL CHAIN LINK FENCE & CONCRETE CURB

This Bid Item consists of the installation of chain-link fencing, including new posts set into concrete footings, a continuous reinforced concrete curb set flush with the ground, diamond mesh, gate, and all other work adjacent and incidental that is required for a complete and finished installation. Payment will be by (linear meter) linear feet of fence.

BID ITEM 202

Drawing: none

REMOVE WOODEN FENCE

This Bid Item consists of the removal of existing wood fencing and posts, including any concrete supports, to allow for other work to be done for the drainage and erosion control. Off post disposal of all materials is the responsibility of the Contractor. Replacement of the fence will be done by a separate bid item listed elsewhere. Payment for removal and disposal of the entire existing wood fencing system will be done by (linear meter) linear feet of fence.

BID ITEM 203

Sequence No. 32

INSTALL WOODEN FENCE

This Bid Item consists of the installation of new wood fencing, including new steel posts set into concrete footings, gate, and all other work adjacent and incidental that is required for a complete and finished installation. This item detail is similar to the bid item for chain link fencing. While the steel posts are identical, the only difference is the wood shadow box instead of diamond mesh. Payment will be by (linear meter) linear feet of fence.

BID ITEM 204

Sequence No. 33

INSTALL WOODEN FENCE WITH CONCRETE CURB

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This Bid Item consists of the installation of new wood fencing, including new steel posts set into concrete footings, a continuous reinforced concrete curb, gate, and all other work adjacent and incidental that is required for a complete and finished installation. This item detail is similar to the bid item for chain link fencing. While the concrete curb and the steel posts are identical, the only difference is the wood shadow box instead of diamond mesh. Payment will be by (linear meter) linear feet.

BID ITEM 205

Sequence No. 34

CONSTRUCT TYPE "A" CONCRETE RETAINING WALL

This Bid Item consists of the installation of a low concrete retaining walls. The item includes all excavation, form work, reinforcing steel, concrete, filter fabric and drainage fill or prefabricated geotechnical foundation drainage system, weep holes, select backfill, as indicated on the drawings, and all other work adjacent and incidental that is required for a complete and finished installation. Payment will be by (linear meter) linear feet.

BID ITEM 206

Sequence No. 35

CONSTRUCT CONCRETE TYPE "A" RETAINING WALL & CHAIN LINK FENCE

This Bid Item is identical to the Type "A" Concrete Retaining Wall, except that a chain link fence is included consisting of new steel posts and new diamond mesh. Payment will be by (linear meter) linear feet.

BID ITEM 207

Sequence No. 36

CONSTRUCT TYPE "A" CONCRETE RETAINING WALL & WOOD FENCE

This Bid Item includes a wood fence. Payment will be by (linear meter) linear feet.

BID ITEM 208

Sequence No. 37

CONSTRUCT TYPE "B" CONCRETE RETAINING WALL & CHAIN LINK FENCE

This Bid Item is similar except that the concrete retaining wall is higher where it may be needed. The chain link fence is only 0.9 meters high and primarily functions as a safety barrier. Payment will be by (linear meter) linear feet.

BID ITEM 209

Sequence No. 38

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CONSTRUCT TYPE "B" CONCRETE RETAINING WALL & WOOD FENCE

This Bid Item includes a wood fence. Payment will be by (linear meter) linear feet.

BID ITEM 210

Sequence No. 39

CONSTRUCT TYPE "C" CONCRETE RETAINING WALL & CHAIN LINK FENCE

This Bid Item consists of a cast-in-place reinforced concrete retaining wall that incorporates a drainage channel at the top to intercept water flowing from the hillside above. It includes all excavation, form work, reinforcing steel, concrete, filter fabric and drainage fill or prefabricated geotechnical foundation drainage system, weep holes, select backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The height of the wall may vary between (1.2 and 1.8 meters) 4 and 6 feet high. Payment will be by (linear meter) linear feet of wall.

BID ITEM 211

Sequence No. 40

CONSTRUCT TYPE "D1" RETAINING WALL

This Bid Item consists of a system of prefabricated concrete masonry units interlocked together to form low retaining walls of different heights. At least six manufacturers are known to be available and furnish competitive systems that are similar but vary according to proprietary designs. The bid item includes all excavation, reinforced concrete foundation, precast concrete masonry units and all accessories, cap stone, drainage fill, select backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The height of the wall may vary where it is used for tree root protection to avoid erosion on steep slopes and other locations. Payment will be by (linear meter) linear feet of wall.

BID ITEM 212

Sequence No. 41

CONSTRUCT TYPE "D2" RETAINING WALL

This Bid Item consists of a system of prefabricated concrete masonry units interlocked together to form retaining walls of different heights from four to six feet that include structural synthetic, or geotechnical fabric, reinforcement within a coherent mass of select structural fill material and ground water drainage. At least six manufacturers are known to be available and furnish competitive systems that are similar but vary according to proprietary designs. This bid item includes all excavation, reinforced concrete

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foundation, precast concrete masonry units and all accessories, cap stone, drainage fill, structural synthetic fabric reinforcement, select backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The height of the wall may vary where it is used for tree root protection on steep slopes and other locations. Payment will be by (linear meter) linear feet of wall.

BID ITEM 213

Sequence No. 42

CONSTRUCT TYPE "D3" RETAINING WALL

This Bid Item consists of a system of prefabricated concrete masonry units interlocked together to form retaining walls of different heights from seven to nine feet that include structural synthetic, or geotechnical fabric, reinforcement within a coherent mass of select structural fill material and ground water drainage. At least six manufacturers are known to be available and furnish competitive systems that are similar but vary according to proprietary designs. This bid item includes all excavation, reinforced concrete foundation, precast concrete masonry units and all accessories, cap stone, drainage fill, structural synthetic fabric reinforcement, select backfill, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. The height of the wall may vary where it is used for tree root protection on steep slopes and other locations. Payment will be by (linear meter) linear feet of wall.

BID ITEM 214

Sequence No. 43

CONSTRUCT TYPE "E" RETAINING WALL AT OFFSET FLOOR SLABS

This Bid Item consists of a retaining wall and drainage. Payment will be by (linear meter) linear feet of wall.

BID ITEMS 215 - 217

Sequence No. 44

CONSTRUCT DRILLED SHAFTS (305mm DIAMETER)(12 inches DIAMETER), (457mm DIAMETER)(18 inches DIAMETER) (610mm DIAMETER)(24 inches DIAMETER)

These Bid Items consist of drilled and reinforced concrete shafts in several different diameters, as may be needed, for foundations under structures because of certain subsurface soils conditions. Payment will be by (vertical meter) vertical feet for each of the diameters as indicated.

BID ITEM 218

Drawing: none

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CONSTRUCT RIPRAP

This Bid Item consists of broken concrete or stone blocks, generally in cubic form. It includes any excavation required and preparation of the subgrade for placing the riprap to slopes, lines, and grades as shown on the drawings. Payment will be by the (cubic meter) cubic yard.

BID ITEM 219

Sequence No. 45

CONSTRUCT FLEXIBLE CONCRETE REVETMENT

This Bid Item consists of a flexible erosion control system comprised of precast, three directional interlocking concrete components overlaying a geotextile. The bid item includes subgrade preparation, geotextile, precast concrete components, infilling the spaces with topsoil to cover the exposed geotextile and to facilitate the growth of grass, and seeding. Payment for the flexible concrete revetment and all related work will be by the (square meter) square yard.

BID ITEM 220

Sequence No. 46

CONSTRUCT REINFORCED CONCRETE SLOPE PAVEMENT (101mm) (4 inches)

This Bid Item consists of cast-in-place reinforced concrete paving on slopes to prevent erosion. It includes slope preparation and compaction, reinforcement, joints, weep holes and portland cement concrete in accordance with the drawings and specifications. Excavation will be under a separate bid item. Payment will be by (square meter) square yard.

BID ITEM 221

Drawing: none

SEAL CRACKS/JOINTS IN REINFORCED CONCRETE STRUCTURES

This Bid Item consists of sealing of cracks/joints in existing reinforced concrete structures such as existing headwalls, aprons, slope paving, swales, etc., in accordance with section 02523 of the specifications. Payment will be by (linear meter) linear feet.

BID ITEM 222

Sequence No. 47

INSTALL WELDED STEEL HANDRAIL

This Bid Item consists of a welded steel handrail. Payment will be by (linear meter) linear feet.

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BID ITEM 223

Drawing: none

CONSTRUCT STEEL REINFORCING FOR CONCRETE STRUCTURES

This Bid Item consists of reinforcing steel for any concrete structures not included in other bid items and must be designed for special conditions. Payment will be by the (kilogram) pounds of reinforcing steel.

BID ITEM 224

Drawing: none

CONSTRUCT STRUCTURAL CONCRETE

This Bid Item consists of concrete and all form work for any cast-in-place structures not included in other bid items that must be designed for special conditions. Payment will be by the (cubic meter) cubic yard of concrete. Reinforcing steel, excavation, and any other items are included in separate bid items.

BID ITEM 225

Sequence No. 48

ADJUST SANITARY SEWER CLEAN-OUT TO GRADE

This Bid Item consists of removal of an existing sanitary sewer clean-out and the installation of a new clean-out at an elevation consistent with the new drainage grades. It includes all excavation, cutting the existing pipe, replacement with all new fittings and new sanitary sewer pipe vertical adjustment. It also includes compacted backfill, topsoil and solid sodding, and all other work adjacent and incidental that may not already be included in general conditions to provide for a complete and finished installation. Payment will be for each location.

BID ITEM 226

Sequence No. 49

INSTALL SANITARY SEWER SERVICE LINE

This Bid Item consists of replacement of sanitary sewer pipes that need to be relocated because of development of plans for storm drainage or erosion control. Payment will be by (linear meter) linear feet.

BID ITEMS 227 - 228

Drawing: none

INSTALL WATER SERVICE LINE (19-38mm) (3/4 – 1 ½ inch) and (51-101mm) (2 – 4 inches)

These Bid Items consist of replacement of underground water pipes to be relocated because of development of plans for drainage or erosion control. The bid item will be for copper, iron, or PVC pipe,

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because the new pipe will be the same as the pipe being replaced. It includes all excavation, backfill, pipe and fittings. Payment will be by (linear meter) linear feet.

BID ITEMS 229 - 230

Drawing: none

INSTALL GAS SERVICE LINE (13-25mm) (1/2 - 1 inch) and (31-51mm) (1 1/4 - 2 inches)

These Bid Items consist of replacement of underground gas pipes to be relocated because of development of plans for drainage or erosion control. The bid item will be for black iron or polyethylene pipe because the new pipe will be the same as the pipe being replaced. It includes all excavation, backfill, pipe and fittings. Payment will be by (linear meter) linear feet.

BID ITEM 231

Sequence No. 50

INSTALL SPLASH BLOCK

This Bid Item consists of precast concrete splash blocks to be placed at roof drainage downspouts in locations to control erosion and prevent damage to new work. Payment will be for each splash block in place.

BID ITEMS 232 - 234

Sequence No. 51

PROVIDE & PLANT TREE - TYPE "A", "B", and "C"

These Bid Items consist of providing and planting several different types of trees according to the schedule in locations as shown on the detailed site drawings. Payment will be for each tree of each type planted.

BID ITEMS 235 - 237

Sequence No. 52

PROVIDE & PLANT TREE - TYPE "D", "E", and "F"

These Bid Items consist of providing and planting several different types of trees according to the schedule in locations as shown on the detailed site drawings. Payment will be for each tree of each type planted.

BID ITEMS 238 - 240

Similar to Sequence No. 52

REMOVE AND TRANSPLANT TREE

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These Bid Items consist of removing and transplanting several different sizes of trees using the appropriate mechanized tree spade. The method for relocating and planting an existing tree is similar to that for new trees. Payment will be for each tree of each size that is transplanted to a new location.

BID ITEMS 241 - 244

Sequence No. 53

PROVIDE & PLANT SHRUB - TYPE "A", "B", "C", and "D"

These Bid Items consist of providing and planting the several different types of shrubs according to the schedule and detailed site drawings. Payment will be by each shrub of each type planted.

The Bid Item for Type A consists of removing an existing shrub and transplanting it to another location, including "healing in", maintenance, and protection if the shrub is not immediately planted in the new location. The method for planting an existing shrub is similar to that for new shrubs. Payment will be for each shrub transplanted to a new location.

BID ITEM 245

Drawing: none

REMOVE AND REPLACE PLAYGROUND EQUIPMENT

This Bid Item consists of the removal, salvage, and protection of any contiguous unit of playground equipment, including but not limited to swing sets, slide sets, merry-go-round, climber, sandbox, or other playground unit that needs to be removed for work on drainage and erosion control. The bid item also includes the complete reinstallation of the unit of playground equipment in the original location or a location nearby as indicated on the site detailed drawings. Payment will be for each unit.

BID ITEM 246

Sequence No. 54

GRAVEL ROAD SURFACE COURSE

This Bid Item consists of providing the material and construction of (150mm) 6 inches depth gravel road surface course in accordance with Technical Specification 02544. Payment will be per (square meter) square yard.

BID ITEM 247

Sequence No. 54

GLAUCONITE ROAD SURFACE COURSE

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This Bid Item consists of providing the material and construction of (150mm) 6 inches depth glauconite road surface course in accordance with Technical Specification 02545. Payment will be per (square meter) square yard.

BID ITEM 248

Sequence No. 54

AGGREGATE ROAD SURFACE COURSE

This Bid Item consists of providing the material and construction of (150mm) 6 inches depth aggregate road surface course in accordance with Technical Specification 02546. Payment will be per (square meter) square yard.

BID ITEM 249

Sequence No. 54

SEPARATION/FILTRATION GEOTEXTILE MATERIAL

This Bid Item consists of providing and installing geotextile material in accordance with Technical Specification 02272. Payment will be per (square meter) square yard.

BID ITEM 250

Sequence No. 54

PROCESS FINE GRAIN SUBGRADE MATERIAL

This Bid Item consists of processing (250mm) 10 inches depth of fine grain subgrade in accordance with Technical Specification 02226 "EARTHWORK FOR ROADWAYS". Payment will be per (square meter) square yard.

BID ITEM 251

Sequence No. 54

PROCESS COURSE GRAINED SUBGRADE MATERIAL

This Bid Item consists of processing (450mm) 18 inches depth of course grain subgrade in accordance with Technical Specification 02226. Payment will be per (square meter) square yard.

BID ITEMS 252 - 253

Sequence No. 54

PROCESS SUBRADE MATERIAL WITH LIME

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These Bid Items consist of processing various depths of subgrade with 3-percent lime by weight in accordance with Technical Specification 02240. Payment will be per (square meter) square yard.

BID ITEMS 254 - 256

Sequence No. 54

PROCESS SUBGRADE MATERIAL WITH CEMENT

These Bid Items consist of processing various depths of subgrade with 6-percent cement in accordance with Technical Specification 02239. Payment will be per (square meter) square yard.

BID ITEM 257

Sequence No. 54

PROOF ROLLING

This Bid Item consists of proof rolling in accordance with Technical Specification 02226. Payment will be by the (hectare) acre.

BID ITEM 258

Sequence No. 54

EARTHWORK FOR TYPICAL ROADWAYS

This Bid Item consists of unclassified excavation, hauling, filling and compaction within an average right-of-way width of (15 meters) 50 feet to the typical cut and/or fill section shown on Sequence No. 54. This Bid Item assumes a cut/fill balance on the roadway project. Payment will be per (kilometer) mile of roadway work

BID ITEM 259

Sequence No. 54

EARTHWORK FOR OVERTOPPING ROADWAY SECTION

This Bid Item consists of unclassified excavation, hauling, filling and compaction within an average right-of-way width of (15 meters) 50 feet to the overtopping road section shown on Sequence No. 54. This Bid Item assumes a cut/fill balance on the roadway project. Payment will be per (kilometer) mile of roadway work

BID ITEMS 260 - 262

Drawing: none

FILL MATERIAL FOR ROADWAYS

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These Bid Items consist of providing fill material from onsite borrow areas within the distances specified and includes hauling and compaction. Payment will be per (cubic meter) cubic yard of material.

BID ITEM 263 Sequence No. 54  
OVEREXCAVATE SOFT MATERIAL AND BACKFILL WITH CRUSHED ROCK

This Bid Item consists of excavation of soft material and backfilling with (600mm) 24 inches depth crushed rock in accordance with Technical Specification 02233. Payment will be per (square meter) square yard.

BID ITEM 264 Sequence Nos. 55, 56, 57, 58 and 59  
CONCRETE TURNING PAD OR HARDENED BOTTOM

This Bid Item consists of (300mm) 12 inches depth reinforced concrete pavement for turning pads and hardened bottoms. Payment will be per (square meter) square yard.

BID ITEM 265 Sequence No. 57  
TOE FOR HARDENED BOTTOM SECTION

This Bid Item is for the construction of the (450mm) 18 inches concrete toe along the edge of the hardened bottom section. Payment will be per (linear meter) linear feet.

BID ITEM 266 Sequence No. 57 & 58  
CRUSHED ROCK BASE FOR CONCRETE PAVEMENT

This Bid Item is for the construction of the (150mm) 6 inches depth crushed rock base for concrete pavement in accordance with Technical Specification 02233. Payment will be per (square meter) square yard.

BID ITEM 267 Sequence No. 62  
GUARD POSTS

This Bid Item is for the construction of guard posts in accordance with Technical Specification 02845. Payment will be per each.

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BID ITEM 268

Sequence No. 63

STREAM GAGE

This Bid Item is for the construction of stream gages. Payment will be per each.

BID ITEM 269

Sequence No. 64

SILT FENCE

This Bid Item is for the construction of additional silt fences required for a project other than erosion control related to construction activities. Payment for silt fences and other erosion control devices for construction related activities shall not be a separate pay item but shall be incidental to the applicable pay item. Payment will be per (linear meter) linear feet.

BID ITEM 270

Sequence No. 65

TRAFFIC SIGNS

This Bid Item is for the construction of traffic signs. Payment of traffic signs will be per each.

BID ITEMS 271 - 275

Sequence No. 66

CULVERT HEADWALLS FOR DOUBLE PIPE

This Bid Item is for the excavation, material, construction and backfill of double pipe culverts. Payment will be per each.

BID ITEMS 276 - 278

Sequence Nos.61 and 75-78

CAST IN PLACE REINFORCED CONCRETE BOX CULVERTS

These Bid Items are for the excavation, material, construction and backfill of various size and spans of reinforced concrete box culverts. Payment for this Bid Item will be per (cubic meter) cubic yard of concrete.

BID ITEM 279

Sequence Nos. 67-74

CAST IN PLACE REINFORCED CONCRETE FLARED WINGS FOR BOX CULVERTS

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This Bid Item is for the excavation, material, construction and backfill of various sizes of reinforced concrete flared wings for box culverts. Payment for this Bid Item will be per (cubic meter) cubic yard of concrete.

BID ITEM 280

Sequence No. 61

CRUSHED ROCK BEDDING FOR BOX CULVERTS

This Bid Item is for the excavation, material and construction of (450mm) 18 inches depth crushed rock bedding for box culverts. Payment for this Bid Item will be per (square meter) square feet.

BID ITEMS 281 - 286

Sequence Nos. 61 & 79, 80

PRECAST BOX CULVERT

These Bid Items are for the excavation, material, construction and backfill of various sizes of precast box culverts. Payment for this Bid Item will be per (linear meter) linear feet.

BID ITEM 287

Drawing: none

GRADING OF EXISTING ROADS

This Bid Item is for the grading of existing gravel surface on the Installation varying in width from (5.5 to 7.3 meters) 18 to 24 feet in width in accordance with Texas Department of Highways and Public Transportation Standard Specification Item 152 "Road Grader Work (Ordinary Compaction)". Payment for this Bid Item will be per (kilometer) mile of road.

BID ITEM 288

Drawing: none

GRADING OF ROAD DITCHES

This Bid Item is for the grading and cleaning out of existing ditches up to (5 meters) 16 feet wide on the installation in accordance with Texas Department of Highways and Public Transportation Standard Specification Item 152 "Road Grader Work (Ordinary Compaction)". Payment for this Bid Item will be per (kilometer) mile of ditch.

BID ITEMS 289 - 315

Sequence No. 66

CORRUGATED METAL CULVERT PIPE

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These Bid Items are for the installation of (0.25mm) 0.01 inches polymeric coated culvert pipe to the lengths specified without joints. Payment for this Bid Item will be per each joint.

BID ITEMS 316 - 318

Sequence No. 66

CORRUGATED POLYETHYLENE CULVERT PIPE

These Bid Items are for the installation of Type C corrugated polyethylene culvert pipe of various diameters. Payment for this Bid Item will be per (linear meter) linear feet.

BID ITEM 319

FOUR STRAND BARBED WIRE FENCE

This Bid Item is for the installation of 4-strand barb wire fence in accordance with Texas Department of Transportation Specification Item 552. Metal posts shall be (64 x 64 x 6mm) 2.5 x 2.5 x ¼ inch minimum galvanized steel angle. Line posts shall be “studded tees” and weigh at least 1.33 pounds per foot. Rails and braces shall be (50 x 50 x 5mm) 2 x 2 x ¼ inch minimum galvanized steel angle. Braces shall be (50 x 50 x 5mm) 2 x 2 x ¼ inch minimum galvanized steel angle or No. 9 A.S.W. Gage smooth wire. Staples shall be No. 9 galvanized steel wire, (25mm) 1 inch long. Barbed wire shall consist of No. 12-1/2 gage wire, twisted with two-point No. 14 gage barbs spaced not more than (127mm) 5 inches apart. Payment will be by (linear meter) linear feet of fence installed.

BID ITEM 320 - 321

Sequence 81

CHAIN LINK SECURITY FENCE W/3 STRANDS BARBED WIRE

This bid item is for the installation of (1.8 or 2.1M) 6' or 7' chain link security fence with three strands of barbed wire. Payment will be by (linear meter) linear feet of fence installed.

BID ITEM 322 - 327

Sequence 82

GATES (4' TO 8' LONG)(8' TO 12' LONG)(>12' TO 20' LONG)

This bid item is for the installation of gates for the lengths indicated. Payment will be per each gate.

BID ITEM 328

ADDITIONAL GROUNDING

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This bid item is for the installation of additional grounding. Payment will be per each grounding.

BID ITEM 329 Sequence 82  
GATE KEEPER

This bid item is for the installation of gate keepers. Payment will be per each gate keeper.

BID ITEM 330 Sequence 82  
ROD AND LOCK KEEPER

This bid item is for the installation of rod and lock keepers. Payment will be per each rod and lock keeper.

BID ITEM 331 Sequence 82  
DOUBLE ARM W/6 STRANDS OF BARBED WIRE

This bid item is for the installation of double arms with six strands of barbed wire. Payment will be by (linear meter) linear feet of double arms installed.

BID ITEM 332 - 333  
CONCRETE CORES

Provide concrete cores in existing pavement for various diameters and depths. Payment will be made per each core.

BID ITEM 334 Drawing: None  
TACK WELD SUPPORT ARMS TO FENCE POST

This bid item consists of tack welding the single support arms for three strands of barbed wire to the fence posts. Replace deteriorated single support arms when required. Restraining the barbed wire where removal was required to complete the welding. Payment for this Bid Item will be per (linear meter) linear feet of fence.

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BID ITEM 335

Drawing: None

CONCRETE WHEEL STOPS

This bid item is for the furnishing and installation of concrete wheel stops. Payment for this Bid Item will be per wheel stop.

-- End of Section --