

## **II. PROJECT SPECIFICATIONS:**

### **ITEM NO. 1 – Preparing ROW**

The provisions of City of Midland “Preparation of Right of Way” shall apply except as modified or clarified below:

- A. All removed material shall become the property of the contractor. The contractor shall be responsible for disposing of said material, off site, in a safe and lawful manner.
- B. Removal of miscellaneous gravel pavement, concrete, wood, metal, other structures and/or trash not specifically identified for removal on the demolition plans or scheduled for payment in the proposal shall be considered incidental to this bid item and shall not be a basis for additional payment.
- C. All culverts within the project limits shall be cleaned prior to final project acceptance. The cost for this work shall be considered incidental to this bid item.
- D. Measurement for this bid item shall be per station.
- E. Payment for this bid item shall be paid for at the unit price bid for “Preparing ROW”.

### **ITEM NO. 2 – Excavation**

The provisions of City of Midland “Excavation, Embankment, and Preparation of Subgrade” shall apply except as modified or clarified below:

- A. No extra payment shall be made for the excavation beyond the lines and grades shown on the plans unless the lines and grades are changed by the Engineer.
- B. The Contractor shall be satisfied as to the scope and quantity of work relating to earthwork involved prior to submitting the bid.
- C. Calculation of quantities was made by a triangulated irregular network (tin) to tin comparison between the existing surface generated from topographic survey conducted by the Engineer between March and April of 2022 and the proposed surface with appropriate adjustments for variance resulting from hardscape improvements only. No adjustment factors for expansion/contraction were considered and the quantities associated with this item shall be considered a plans quantity. Payment shall be only for the lines and grades shown on the plans and there will be no pay for any excavation the Contractor conducts outside the lines and grades shown on the plans. Additional excavation or fill that the Contractor deems necessary to complete the project is subsidiary to the work.
- D. “Excavation” shall be considered unclassified excavation. It shall be understood that no geotechnical boring information was obtained and any other information contained in the plans regarding the subsurface conditions are for contractor information only and all excavation shall be in accordance with the lines, grades, and typical sections as shown on the plans without regard to materials encountered which includes but is not limited to rock, trash, and/or debris.
- E. Excess material suitable for use as fill material or topsoil shall be placed within the areas where fill material is required for this project. On-site material is suitable for use on the project provided it is free roots, rocks, and debris. Surplus material and material unsuitable for use as fill shall be disposed off-site by the Contractor incidental to this

- bid item.
- F. The Contractor shall submit a Stockpile Plan that designates locations for temporary storage of excavated and fill material. This plan is subject to approval of the County. If stockpile(s) are located on private property, the Contractor must supply the County with a written letter of permission from the property owner to include the final state of the land to be used.
  - G. Any dewatering, ground or surface water management measures necessary for excavation activities to construct the lines and grades shown in the plans shall be considered incidental to these various bid items.
  - H. Measurement for this bid item shall be per cubic yard.
  - I. Payment for this bid item shall be paid for at the unit price bid for “Excavation”.

**ITEM NO. 3 – Embankment**

The provisions of City of Midland “Excavation, Embankment, and Preparation of Subgrade” shall apply except as modified or clarified below:

- A. No extra payment shall be made for embankment beyond the lines and grades shown on the plans unless the lines and grades are changed by the Engineer.
- B. The Contactor shall be satisfied as to the scope and quantity of work relating to earthwork involved prior to submitting the bid.
- C. Calculation of quantities was made by a triangulated irregular network (tin) to tin comparison between the existing surface generated from topographic survey conducted by the Engineer between March and April of 2022 and the proposed surface with appropriate adjustments for variance resulting from hardscape improvements only. No adjustment factors for expansion/contraction were considered and the quantities associated with this item shall be considered a plans quantity. Payment shall be only for the lines and grades shown on the plans and there will be no pay for any excavation the Contractor conducts outside the lines and grades shown on the plans. Additional excavation or fill that the Contractor deems necessary to complete the project is subsidiary to the work.
- D. Excess material suitable for use as fill material or topsoil shall be placed within the areas where fill material is required for this project. On-site material is suitable for use on the project provided it is free roots, rocks, and debris. Surplus material and material unsuitable for use as fill shall be disposed off-site by the Contractor.
- E. The Contractor shall submit a Stockpile Plan that designates locations for temporary storage of excavated and fill material. This plan is subject to approval of the County. If stockpile(s) are located on private property, the Contractor must supply the County with a written letter of permission from the property owner to include the final state of the land to be used.
- F. Measurement for this bid item shall be per cubic yard.
- G. Payment for this bid item shall be paid for at the unit price bid for “Embankment”.

**ITEM NO. 4 – Removing Stab Base and Asph Pave (12”-18”)**

The provisions of City of Midland “Preparing Right of Way” shall apply except as modified or clarified below:

- A. All removed material shall become the property of the contractor. The contractor shall be responsible for disposing of said material, off site, in a safe and lawful manner.
- B. The Contractor shall submit a Stockpile Plan that designates locations for temporary storage of removed concrete. This plan is subject to approval of the City. If stockpile(s) are located on private property, the Contractor must supply the City with a written letter of permission from the property owner to include the final state of the land to be used.
- C. Asphalt and stabilized base depths are for contractor information only. Depths are based upon Lonestar Trails Phase 5 plans dated March 25, 2020.
- D. Measurement for this bid item shall be per square yard.
- E. Payment for this bid item shall be paid for at the unit price bid for “Removing Stab Base and Asph Pave (12”-18”)”.

**ITEM NO. 5 – Removing Treated Base (8”)**

The provisions of City of Midland “Preparing Right of Way” shall apply except as modified or clarified below:

- A. For the purposes of the plans this material is labeled as “gravel”.
- B. The Contractor shall submit a Stockpile Plan that designates locations for temporary storage of removed concrete. This plan is subject to approval of the City. If stockpile(s) are located on private property, the Contractor must supply the City with a written letter of permission from the property owner to include the final state of the land to be used.
- C. All removed material shall become the property of the contractor. The contractor shall be responsible for disposing of said material, off site, in a safe and lawful manner.
- D. Measurement for this bid item shall be per square yard.
- E. Payment for this bid item shall be paid for at the unit price bid for “Removing Treated Base (8”)”.

**ITEM NOS. 6 & 7 – Caliche Flexible Base**

The provisions of City of Midland “Flexible Base, Caliche” shall apply except as modified or clarified below:

- A. Payment shall be only for the lines and grades shown on the typical sections and there will be no pay for any flex base the Contractor places outside the lines and grades shown on the plans. Additional flex base that the Contractor deems necessary to complete the project is subsidiary to the work.
- B. Gravel driveways shown in the plans are to be 8-Inch Thick Caliche Flexible Base.
- C. Measurement for this bid item shall be per square yard.
- D. Payment for this bid item shall be paid for at the unit price bid for “12-Inch Thick

Caliche Flexible Base” and “8-Inch Thick Caliche Flexible Base”.

**ITEM NO. 8 – 8-Inch Prepared Subgrade**

The provisions of City of Midland “Excavation, Embankment, and Preparation of Subgrade” shall apply except as modified or clarified below:

- A. Reworked base material may only be utilized for subgrade if it meets the requirements of the specifications listed above. Any material not conforming to these standards shall be removed and replaced with select fill material meeting the requirements of the aforementioned specifications. Remediation of non-conforming subgrade material shall be considered incidental to this bid item.
- B. Proof rolling shall be required for all areas at a cost incidental to this bid item.
- C. Measurement for this bid item shall be per square yard.
- D. Payment for this bid item shall be paid for at the unit price bid for “8-Inch Prepared Subgrade”

**ITEM NO. 9 – Prime Coat (MC-30)**

The provisions of City of Midland “Bituminous Prime” shall apply except as modified or clarified below:

- A. An application rate of 0.20 gallons per square yard has been utilized for the purposes of this project. Meeting this application rate shall be part of the contractors means and methods. Application rates in excess of this utilized rate shall not be a basis for additional compensation.
- B. Measurement for this bid item shall be per gallon.
- C. Payment for this bid item shall be paid for at the unit price bid for “Prime Coat (MC-30)”.

**ITEM NO. 10 – Type C HMA**

The provisions of City of Midland “Hot Mix Asphalt Concrete” shall apply except as modified or clarified below:

- A. A minimum of two sets of cores per day or per 400 tons, whichever is greater, will be taken to determine thickness and density of HMA surfaces.
- B. Cores will be taken in pairs and average to determine the percent air voids based on the theoretical maximum gravity. Results shall be returned to the Engineer within 24 hours, and before covering any subsequent lifts.
- C. Inform the Engineer of job mix formula changes as they occur.
- D. For the purposes of this project a density of 145 pounds per cubic foot was utilized for quantity determinations.
- E. Measurement for this bid item shall be per ton.
- F. Payment for this bid item shall be paid for at the unit price bid for “Type C HMA”.

**ITEM NO. 11 – Fog Seal**

The provisions of TxDOT Item 315 – “Fog Seal” shall apply except as modified or clarified below:

- A. An application rate of 0.12 gallons per square yard has been utilized for the purposes of this project. Meeting this application rate shall be part of the contractors means and methods. Application rates in excess of this utilized rate shall not be a basis for additional compensation.
- B. Measurement for this bid item shall be per gallon.
- C. Payment for this bid item shall be paid for at the unit price bid for “Fog Seal”.

**ITEM NO. 12 – 6-Inch Fiber Reinforced Concrete Pavement**

The provisions of TxDOT Item 360 – “Concrete” shall apply except as modified or clarified below:

- A. Concrete pavement shall be constructed in accordance with the Midland standard details for concrete pavement.
- B. Fiber reinforcement shall conform the requirements contained in the City of Midland “Concrete” specifications.
- C. Measurement for this bid item shall be per square yard.
- D. Payment for this bid item shall be paid for at the unit price bid for “6” Fiber Reinforced Concrete Pavement”.

**ITEM NO. 13 – Concrete Header**

The provisions of TxDOT Item 360 – “Concrete” shall apply except as modified or clarified below:

- A. Concrete headers shall be installed at rigid to flexible pavement connections subsidiary to this bid item.
- B. Concrete headers shall be installed in accordance with the standard details contained in the plans.
- C. Measurement for this bid item shall be per linear foot.
- D. Payment for this bid item shall be paid for at the unit price bid for “Concrete Header”.

**ITEM NO. 14 – Riprap (Mow Strip) (4 In)**

The provisions of TxDOT Item 432 – “Riprap” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per cubic yard.
- B. Payment for this bid item shall be paid for at the unit price bid for “Riprap (Mow Strip) (4 In)”.

**ITEM NO. 15 – Remove Str (Small Fence)**

The provisions of TxDOT Item 496 – “Removing Structures” shall apply except as

modified or clarified below:

- A. All removed material shall become the property of the contractor. The contractor shall be responsible for disposing of said material, off site, in a safe and lawful manner.
- B. Contractor shall be required to provide temporary security fencing for all properties prior to removing fences unless otherwise directed by the respective owner. Cost for the installation and maintenance of said fencing shall be considered incidental to this bid item until the permanent fencing is fully constructed.
- C. The Contractor shall notify the property owner at least 72 hours in advance of fence removal. The bid quantity was established for bidding purposes only. Exact locations for fence removal and replacement shall be determined in the field by City Inspectors during construction. No fences shall be removed without express approval from City Inspectors and proper notification of property owner. Quantities for payment will be based on the length of fence removal actually performed.
- D. Measurement for this bid item shall be per linear foot.
- E. Payment for this bid item shall be paid for at the unit price bid for “Remove Str (Small Fence)”.

**ITEM NO. 16 – Mobilization**

The provisions of TxDOT Item 500 – “Mobilization” shall apply except as modified or clarified below:

- A. The lump sum price bid shall be full compensation for all costs associated with mobilization and demobilization, complete in place and paid 50% for mobilization and 50% for demobilization. This item shall be the total compensation for furnishing material, total, labor, equipment, and incidentals necessary for complete and operable systems.
- B. Locating and marking all utilities, both franchise and public, in the field prior to the start of construction shall be considered incidental to this bid item.
- C. Measurement for this bid item shall be lump sum.
- D. Payment for this bid item shall be paid for at the unit price bid for “Mobilization”.

**ITEM NO. 17 – Barricades, Signs, and Traffic Handling**

The provisions of TxDOT Item 502 – “Barricades, Signs, and Traffic Handling” shall apply except as modified or clarified below:

- A. All permanent signage and striping shall be installed upon completion of each major phase and prior to beginning work on subsequent phases. If contractor elects to install all striping and signage improvements at the end of the project, then temporary signage and markings shall be provided in accordance with MUTCD at their own expense.
- B. Traffic control devices shown on the plans are to be considered an established minimum. Contractor shall be responsible for providing additional traffic control devices in accordance with the TXMUTCD in order to provide for the safe passage of vehicular and pedestrian traffic around construction activities.
- C. Barricades around the Oncor transmission poles are included in this bid item and no

- separate pay shall be considered.
- D. Contractor shall submit a traffic control plan to the County prior to beginning work.
  - E. The contractor shall ensure that access to private residences is maintained along the corridor unless a detour plan is contained in the plans.
  - F. Temporary flex base, whether shown on the traffic control plans or not, required for the safe movement of traffic through the corridor during construction operations shall be considered incidental to this bid item.
  - G. ANY CHANGES TO THE PROPOSED TCP MUST BE APPROVED BY THE ENGINEER.
  - H. This item shall cover barricades, signs, and traffic handling for the entire duration of the project.
  - I. Measurement for this bid item shall be lump sum.
  - J. Payment for this bid item shall be paid for at the unit price bid for “Barricades, Signs, and Traffic Handling”.

**ITEM NO. 18 – Storm Water Pollution Prevention Plan**

The provisions of TxDOT Item 506 – “Temporary Erosion, Sedimentation, and Environmental Controls” shall apply except as modified or clarified below:

- A. The contractor shall be responsible for preparing, implementing, and maintaining a project Storm Water Pollution Prevention Plan (SWPPP) in accordance with the TCEQ Texas Pollutant Discharge Elimination System (TPDES) Permit No. TXR150000. A copy of the SWPPP will be provided to the County and Engineer one (1) week prior to the start of construction. A copy of the SWPPP will be kept on site. The “Construction Site Notice” shall be posted on a sign at the construction site. The construction activities for this project are greater than 5 acres. Therefore, the Contractor shall follow the Construction Activities Permit (TXR150000) for “Large Construction Activities”. Additional information regarding the TCEQ storm water permit program may be found at the internet at:  
[https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15\\_5\\_plus\\_step\\_s.html](https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_5_plus_step_s.html)
- B. A Notice of Intent (NOI) and Notice of Termination (NOT) are required.
- C. This pay item is intended to include all materials, labor, and maintenance necessary to prepare, complete and file with the Texas Commission for Environmental Quality (TCEQ) a Storm Water Pollution Prevention Plan (SWPPP), inspect the project in accordance with the SWPPP and TCEQ General Permit and maintain the SWPPP document and stabilization measures current during the construction until the site is stabilized, and the project accepted.
- D. No work shall be allowed to commence until the storm water pollution prevention plan has been approved by the County.
- E. Contractor shall conform activities to the SWPPP and to the approved erosion control plan included in the plans, including installing and maintaining pollution controls, conducting and documenting inspections, sprinkling for dust control, maintaining spill response equipment on site, and "good housekeeping". Pollution controls include silt

- fences (or erosion control mats), stabilized construction entrance, establishing grass, sprinkling for dust control.
- F. Contractor shall be solely responsible for any and all damage which might be occasioned by the Contractor's failure to follow the SWPPP and "good housekeeping" practices.
  - G. The quantities and configurations contained within the plans for temporary erosion control devices are a minimum and for contractor information only. Temporary erosion control devices shown in the plans include but are not limited to silt fence, rock check dams, and erosion control logs.
  - H. Measurement for this bid item shall be lump sum.
  - I. Payment for this bid item shall be paid for at the unit price bid for "Storm Water Pollution Prevention Plan".

**ITEM NO. 19 – Rock Filter Dams (Install) (Ty 2)**

The provisions of TxDOT Item 506 – "Temporary Erosion, Sedimentation, and Environmental Controls" apply except as modified or clarified below:

- A. Rock filter dams shall be installed in accordance with the Midland Standard Details contained in the plans.
- B. Measurement for this bid item shall be per linear foot.
- C. Payment for this bid item shall be paid for at the unit price bid for "Rock Filter Dams (Install) (Ty 2)".

**ITEM NO. 20 – Rock Filter Dams (Remove)**

The provisions of TxDOT Item 506 – "Temporary Erosion, Sedimentation, and Environmental Controls" apply except as modified or clarified below:

- A. Measurement for this bid item shall be per linear foot.
- B. Payment for this bid item shall be paid for at the unit price bid for "Rock Filter Dams (Remove)".

**ITEM NO. 21 – Biodeg Erosn Cont Log (Install) (8")**

The provisions of TxDOT Item 506 – "Temporary Erosion, Sedimentation, and Environmental Controls" apply except as modified or clarified below:

- A. Erosion control logs shall be installed in accordance with the Midland Standard Details contained in the plans.
- B. Measurement for this bid item shall be per linear foot.
- C. Payment for this bid item shall be paid for at the unit price bid for "Biodeg Erosn Cont Log (Install)".

**ITEM NO. 22 – Biodeg Erosn Cont Log (Remove)**

The provisions of TxDOT Item 506 – "Temporary Erosion, Sedimentation, and

Environmental Controls” apply except as modified or clarified below:

- A. Measurement for this bid item shall be per linear foot.
- B. Payment for this bid item shall be paid for at the unit price bid for “Biodeg Erosn Cont Log (Remove)”.

**ITEM NO. 23 – Temp Sedmt Cont Fence (Install)**

The provisions of TxDOT Item 506 – “Temporary Erosion, Sedimentation, and Environmental Controls” apply except as modified or clarified below:

- A. Silt fence shall be installed in accordance with the Midland Standard Details contained in the plans.
- B. Measurement for this bid item shall be per linear foot.
- C. Payment for this bid item shall be paid for at the unit price bid for “Temp Sedmt Cont Fence (Install)”.

**ITEM NO. 24 – Temp Sedmt Cont Fence (Remove)**

The provisions of TxDOT Item 506 – “Temporary Erosion, Sedimentation, and Environmental Controls” apply except as modified or clarified below:

- A. Measurement for this bid item shall be per linear foot.
- B. Payment for this bid item shall be paid for at the unit price bid for “Temp Sedmt Cont Fence (Remove)”.

**ITEM NO. 25 – Conc Curb and Gutter**

The provisions of City of Midland “Concrete Curb and Gutter” shall apply except as modified or clarified below:

- A. The cost of all expansion, construction and dummy joints shall be subsidiary to this item.
- B. Measurement for this bid item shall be per linear foot.
- C. Payment for this bid item shall be paid for at the unit price bid for “Conc Curb and Gutter”.

**ITEM NO. 26 – MTL-W-Beam GD FEN (TIM Post)**

The provisions of TxDOT Item 540 – “Metal Beam Guard Fence” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per linear foot.
- B. Payment for this bid item shall be paid for at the unit price bid for “MTL-W-Beam GD FEN (TIM Post)”.

**ITEM NO. 27 – MTL-W-Beam GD FEN (Low Fill Culvert)**

The provisions of TxDOT Item 540 – “Metal Beam Guard Fence” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per linear foot.
- B. Payment for this bid item shall be paid for at the unit price bid for “MTL-W-Beam GD FEN (Low Fill Culvert)”.

**ITEM NO. 28 – Downstream Anchor Terminal**

The provisions of TxDOT Item 540 – “Metal Beam Guard Fence” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “Downstream Anchor Terminal”.

**ITEM NO. 29 – MTL BM GD FEN (Long Span System)**

The provisions of TxDOT Item 540 – “Metal Beam Guard Fence” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “MTL BM GD FEN (Long Span System)”.

**ITEM NO. 30 – Guardrail End Treatment (Install)**

The provisions of TxDOT Item 544 – “Guardrail End Treatments” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “Guardrail End Treatment (Install)”.

**ITEM NO. 31 – Install New Wire Fence (Ty C)**

The provisions of TxDOT Item 552 – “Chain Link Fence” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per linear foot.
- B. Payment for this bid item shall be paid for at the unit price bid for “Install New Wire Fence (Ty C)”.

**ITEM NO. 32 – Aluminum Signs (Ty A)**

The provisions of TxDOT Item 636 – “Signs” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per square foot.
- B. Payment for this bid item shall be paid for at the unit price bid for “Aluminum Signs (TY A)”.

**ITEM NO. 33 – In Sm Rd Sn Sup&Am Ty 10BWG(1)SA(P)**

The provisions of TxDOT Item 644 – “Small Roadside Sign Assemblies” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “In Sm Rd Sn Sup&Am Ty 10BWG(1)SA(P)”.

**ITEM NO. 34 – Remove Sm Rd Sn Sup&Am**

The provisions of TxDOT Item 644 – “Small Roadside Sign Assemblies” shall apply except as modified or clarified below:

- A. Contractor shall salvage sign blades from removed signs for installation on related sign poles. Damaged sign blades shall be replaced at contractor’s expense.
- B. Measurement for this bid item shall be per each.
- C. Payment for this bid item shall be paid for at the unit price bid for “Remove Sm Rd Sn Sup&Am”.

**ITEM NO. 35 – Instl Om Assm (OM-3)(Twt)(Was)(R)**

The provisions of TxDOT Item 644 – “Small Roadside Sign Assemblies” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “Instl Om Assm (OM-3)(Twt)(Was)(R)”.

**ITEM NO. 36 – Refl Pav Mrk Ty I (W) 4" (Sld) (090Mil)**

The provisions of TxDOT Item 666 – “Retroreflectorized Pavement Markings” shall apply except as modified or clarified below:

- A. Pavement marking sealers shall be considered incidental to this bid item and shall not be a basis for additional payment.
- B. Measurement for this bid item shall be per linear foot.
- C. Payment for this bid item shall be paid for at the unit price bid for “Refl Pav Mrk Ty I (W) 4" (Sld) (090 Mil)”.

**ITEM NO. 37 – Refl Pav Mrk Ty I (W) 24" (Sld) (090Mil)**

The provisions of TxDOT Item 666 – “Retroreflectorized Pavement Markings” shall apply except as modified or clarified below:

- A. Pavement marking sealers shall be considered incidental to this bid item and shall not be a basis for additional payment.
- B. Measurement for this bid item shall be per linear foot.
- C. Payment for this bid item shall be paid for at the unit price bid for “Refl Pav Mrk Ty I

(W) 24” (Sld) (090Mil)”.

**ITEM NO. 38 – Refl Pav Mrk Ty I (Y) 4” (Sld) (090Mil)**

The provisions of TxDOT Item 666 – “Retroreflectorized Pavement Markings” shall apply except as modified or clarified below:

- A. Pavement marking sealers shall be considered incidental to this bid item and shall not be a basis for additional payment.
- B. Measurement for this bid item shall be per linear foot.
- C. Payment for this bid item shall be paid for at the unit price bid for “Refl Pav Mrk Ty I (y) 4” (Sld) (090Mil)”.

**ITEM NO. 39 – Refl Pav Mrkr TY II-AA**

The provisions of TxDOT Item 672 – “Raised Pavement Markers” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “Refl Pav Mrkr Ty II- AA”.

**ITEM NO. 40 – Pav Surf Prep For Mark (4”)**

The provisions of TxDOT Item 678 – “Pavement Surface Preparation for Markings” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per linear foot.
- B. Payment for this bid item shall be paid for at the unit price bid for “Pav Surf Prep For Mark (4”)”.

**ITEM NO. 41 – Pav Surf Prep For Mark (24”)**

The provisions of TxDOT Item 678 – “Pavement Surface Preparation for Markings” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per linear foot.
- B. Payment for this bid item shall be paid for at the unit price bid for “Pav Surf Prep For Mark (24”)”.

**ITEM NO. 42 – Water Valve Adjustment to Grade**

The provisions of City of Midland “Valves and Valve Boxes” and “Setting Valves, Valve Boxes, Fire Hydrants and Fittings” shall apply except as modified or clarified below:

- A. This item shall govern for adjusting existing gate valves such that cover of the valve box is 2-inches above proposed grade. Adjustment of riser, concrete collar, and extension, if needed, shall be considered incidental to this bid item.
- B. Measurement for this bid item shall be per each.
- C. Payment for this bid item shall be paid for at the unit price bid for “Water Valve

Adjustment to Grade”

**ITEM NO. 43 – Concrete Cap Protection**

The provisions of City of Midland “Concrete Riprap” shall apply except as modified or clarified below:

- A. Caps shall be constructed in accordance with the details contained in the plans.
- B. All concrete for caps shall be 4,000 PSI minimum.
- C. Contractor shall be responsible for locating all utilities on site prior to construction. Any damage to gas and/or petroleum transport utilities occasioned by construction activities shall be repaired at the Contractors expense and the City, County, nor Engineer shall be responsible for any damages material or loss of use resulting from damaged facilities.
- D. Measurement for this bid item shall be per square yard.
- E. Payment for this bid item shall be paid for at the unit price bid for “Concrete Cap Protection”

**ITEM NO. 44 – Concrete Flume**

The provisions of City of Midland Item “Concrete Riprap” shall apply except as modified or clarified below:

- A. Flumes shall be constructed in accordance with the details contained in the plans.
- B. Surfaces adjacent to flume shall be graded to provided positive drainage.
- C. Measurement for this bid item shall be per each.
- D. Payment for this bid item shall be paid for at the unit price bid for “Concrete Flume”

**ITEM NO. 45 – Riprap (Stone Protection) (12 In)**

The provisions of TxDOT Item 432 – “Riprap” shall apply except as modified or clarified below:

- A. 12 inches is to be used for gradation requirements of TxDOT 432.
- B. Area of placement shall be over excavated at a cost incidental to this bid item so that the average top of riprap, after placement and settlement, is at the lines and grades how in the plans. In no circumstance shall the placement of the riprap result in ponding at the interface of the adjacent grades or outfall structures.
- C. Geotextile filter fabric and bedding material meeting the requirements of TxDOT 432 shall be placed below the stone riprap at a cost incidental to this bid item.
- D. Measurement for this bid item shall be per cubic yard.
- E. Payment for this bid item shall be paid for at the unit price bid for “Riprap (Stone Protection)(12 In)”.

**ITEM NO. 46 – Conc Box Culv (5 Ft x 2 Ft)**

The provisions of TxDOT Item 462 – “Concrete Box Culverts and Drains” shall apply

except as modified or clarified below:

- A. Trench excavation protection, if required, shall be considered incidental to this bid item.
- B. Measurement for this bid item shall be per linear foot.
- C. Payment for this bid item shall be paid for at the unit price bid for “Conc Box Culv (5 Ft x 2 Ft)”.

**ITEM NO. 47 – Conc Box Culv (6 Ft x 2 Ft)**

The provisions of TxDOT Item 462 – “Concrete Box Culverts and Drains” shall apply except as modified or clarified below:

- A. Trench excavation protection, if required, shall be considered incidental to this bid item.
- B. Measurement for this bid item shall be per linear foot.
- C. Payment for this bid item shall be paid for at the unit price bid for “Conc Box Culv (6 Ft x 2 Ft)”.

**ITEM NO. 48 – Wingwall (Pw-1) (Hw=4 Ft)**

The provisions of TxDOT Item 466 – “Headwalls and Wingwalls” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “Wingwall (Pw-1) (Hw=4 Ft)”.

**ITEM NO. 49 – SET (Pipe Runner Assembly)**

The provisions of TxDOT Item 467 – “Safety End Treatment” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “Pipe Runner Assembly”.

**ITEM NO. 50 – SET (Ty I) (S=5 Ft) (Hw=3 Ft) (2:1) (C)**

The provisions of TxDOT Item 467 – “Safety End Treatment” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “SET (Ty I) (S=5 Ft) (Hw=3 Ft) (2:1) (C)”.

**ITEM NO. 51 – SET (Ty I) (S=5 Ft) (Hw=4 Ft) (2:1) (C)**

The provisions of TxDOT Item 467 – “Safety End Treatment” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “SET (Ty I) (S=5 Ft) (Hw=4 Ft) (2:1) (C)”.

**ITEM NO. 52 – SET (Ty I) (S=5 Ft) (Hw=3 Ft) (3:1) (C)**

The provisions of TxDOT Item 467 – “Safety End Treatment” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “SET (Ty I) (S=5 Ft) (Hw=3 Ft) (3:1) (C)”.

**ITEM NO. 53 – SET (Ty I) (S=5 Ft) (Hw=4 Ft) (3:1) (C)**

The provisions of TxDOT Item 467 – “Safety End Treatment” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “SET (Ty I) (S=5 Ft) (Hw=4 Ft) (3:1) (C)”.

**ITEM NO. 54 – SET (Ty I) (S=5 Ft) (Hw=3 Ft) (4:1) (C)**

The provisions of TxDOT Item 467 – “Safety End Treatment” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “SET (Ty I) (S=5 Ft) (Hw=3 Ft) (4:1) (C)”.

**ITEM NO. 55 – SET (Ty I) (S=5 Ft) (Hw=4 Ft) (4:1) (C)**

The provisions of TxDOT Item 467 – “Safety End Treatment” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “SET (Ty I) (S=5 Ft) (Hw=4 Ft) (4:1) (C)”.

**ITEM NO. 56 – SET (Ty I) (S=6 Ft) (Hw=3 Ft) (2:1) (C)**

The provisions of TxDOT Item 467 – “Safety End Treatment” shall apply except as modified or clarified below:

- A. Measurement for this bid item shall be per each.
- B. Payment for this bid item shall be paid for at the unit price bid for “SET (Ty I) (S=6 Ft) (Hw=3 Ft) (2:1) (C)”.

**ITEM NOS. 57 & 58 – Abandoned Gas Line Removal**

- A. The purpose of this bid item is to establish a unit price for the removal of 3” and 4” West Texas Gas (G7 gas lines in plans) lines if encountered throughout the execution of the work. Only upon verification of conflicts with these lines and an approved change order shall this work be executable and payable. Any removals conducted without an approved change order shall be at the Contractors expense and no additional compensation shall be granted.
- B. Gas lines are anticipated to be located within the work area between approximately station 50+00 to Elkins Road.
- C. Per discussions and field meetings on May 10th West Texas Gas indicated that the lines in question are abandoned. As part of this work, if necessitated, the Contractor shall be required to coordinate with West Texas Gas representative Travis Placke, 469-540-3304, tplacke@wtggas.com, prior to removal of any lines. Unless otherwise indicated by West Texas Gas at the time of removal the removed material shall become the property of the Contractor and shall be disposed of in a legal manner at a cost incidental to this bid item.
- D. Any capping at removal limits shall be the responsibility of the Contractor and shall not be a basis for additional compensation.
- E. Measurement for this bid item shall be per linear foot.
- F. Payment for this bid item shall be paid for at the unit price bid for “Abandoned Gas Line Removal 3” (In ROW)” & “Abandoned Gas Line Removal 4” (In ROW)”