### PAY ITEM NOTES

1. **The Cost of Grading and Mounding Shall Be Included in the Price of this Item.**

2. **All Items Shall Be Constructed in Accordance with State Highway Department Specifications.**

3. **Contractor shall return all materials to their proper places and shall restore property in a substantially similar condition to the extent of the work involved.**

4. **Includes the Cost of All Surveying and Staking Necessary to Complete the Entire Project and Shall Be Performed by an Oklahoma Registered Land Surveyor.**

5. **Fences, Retaining Walls, and Drainage Structures Destroyed Due to Sanitary Sewer Construction shall be restored with new materials and paid for under this item.**

6. **Contractor shall excavate the utility crossings ahead of five layers to avoid utility crossings and report any utilities disturbed.**

7. **Contractor shall repair any irrigation systems, landscaping, plants, and/or electrical systems damaged during the course of construction and restoring water to the property owner. No additional payment shall be made.**

8. **Compensation for adjustments to the proposed sewer line. Cost for excavating utility crossings shall be included in the cost of excavation and backfill.**

9. ** SHALL INCLUDE THE COST OF RESTORING GRAVEL GRAVEL COVERED BY CONSTRUCTION AT THE 2300 S. COLUMBIA RD. TO PHYSICAL SPECIFICATIONS.**

10. **Electrocution of signs and barriades shall be a subcon of the above and shall not exceed 80% of the work budgeted for the project.**

11. **All warnings lights are to be used on traffic control devices. Type "C" lights shall only be used in lieu of street signs, warning devices or suspended traffic control devices.**

12. **Price is included in the total cost for installation and maintenance of the warning lights necessary for traffic control.**

13. **Price includes the installation of new manhole and three connections of existing manholes to new manholes.**

14. **Price includes the installation of new manhole and three connections of existing manholes to new manholes.**

### SUMMARY OF PAY ITEMS & NOTES

**NOTE:** CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.
STORM WATER MANAGEMENT PLAN

SITE DESCRIPTION

PROJECT LIMITS
BEGINNING AT THE INTERSECTION OF E 26TH PL AND S BIRMINGHAM
PL., 600 FT SOUTH 419 FT TO THE POINT OF BEGINNING. THE PROJECT EXTENDS EAST 668 FT.
TO S COLUMBIA PL.

PROJECT DESCRIPTION
EXTENDING SANITARY SEWER TO CONNECT TWO EXISTING
SANITARY SEWER LINES.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:
1. INSTALLATION OF TEMPORARY EROSION CONTROL.
2. INSTALLATION OF SANITARY SEWER EXTENSION.
3. INSTALLATION OF PERMANENT EROSION CONTROL.

SOIL STABILIZATION PRACCTICE:

- PERMANENT SEEDING, SPRINGING OR SEEDING
- VEGETATIVE COVERING
- SOIL RETENTION BARRIER
- PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS. MIDDLE CONSTRUCTION ACTIVITIES HAVE CAUSED TEMPORARY SEEDING, SPRINGING OR SEEDING WILL BE AS SHOWN OR LAYED,
OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PROTECTION:

- STABILIZED CONSTRUCTION SITES
- TEMPORARY TIE-OFFS
- TEMPORARY SLOPE STABILIZATION
- TEMPORARY EROSION CHAIN
- DIVERSION DITCH OR PERIMETER DRAINS
- DIVERSION DITCH OR PERIMETER SLIDES
- ROCK FILTER BARRIER
- SEDIMENT CONVEYOR
- TANKS OR VESSELS
- PUMPED DREDGING
- TEMPORARY BUFFER BARRIER

GENERAL NOTES:
A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE
OKLAHOMA POLLUTION CONTROL AND INVENTORY SYSTEM REGULATIONS. ANY EROSION
CONTROL METHODS MUST BE COMPLIMENTARY TO THE PROJECT DESIGN AND
THE PROPER CONTROL MEASURES MUST BE OUTERRED TO PREVENT
MATERIALS FROM ENTERING STORM WATER DISCHARGES. PERMITS
MUST BE OBTAINED AS REQUIRED BY THE OKLAHOMA DEPARTMENT OF
ENVIRONMENTAL QUALITY. THE SWPPP MUST BE UP TO DATE AND
APPROVED DURING THE CONSTRUCTION OF THE PROJECT. ALL CONSTRUCTION
WORKER(S) ASSOCIATED WITH THE PROJECT MUST BE FAMILIAR WITH
THE SWPPP AND THE EROSION CONTROL MEASURES.

WASTE MATERIALS:

- PROPER CONTROL AND DISPOSAL OF HAZARDOUS MATERIALS ARE REQUIRED. THE
CONTRACTOR Must FURNISH ALL CLOSED, LEGALLY IMMEDIATELY DUMPING, OR
SPREADING UNIT(S) AND A CHEMICAL ADSORPTION, OR A CHEMICAL ADSORPTION
CONTAINER. THE CONTRACTOR Must FURNISH ALL CLOSED, LEGALLY IMMEDIATELY
DUMPING, OR SPREADING UNIT(S) AND A CHEMICAL ADSORPTION, OR A CHEMICAL ADSORPTION
CONTAINER.

EROSION AND SEDIMENT CONTROLS

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

- MAINTENANCE AND INSPECTION

- ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM
THE BEGINNING OF CONSTRUCTION SITE. AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISH
INSPECTION OF THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED AT EVERY
FOUR (4) CALENDAR DAYS AND WITHIN (2) HOURS OF ANY STORM EVENT GREATER THAN 0.1 INCH AS
RECEIVED BY A NON-FILTERED SENSOR AT OR NEAR THE LOCATION OF THE PROJECT. ALL CONSTRUCTION
WORKER(S) ASSOCIATED WITH THE PROJECT MUST BE FAMILIAR WITH
THE PROPER CONTROL MEASURES AND THE SWPPP.

- CONSTRUCTION ACTIVITIES ARE TO BE CONDUCTED AT ALL TIMES WITH EROSION AND SEDIMENT
CONTROL. LOCATIONS ARE EXAMPLES OF SITES THAT NEED TEMPORARY

NOTE: CONTRACTORS SHALL NOT STORE EQUIPMENT OR MATERIALS IN THIS FLOODPLAIN.

STORM WATER MANAGEMENT PLAN

PROJECT NO. ES 2017-06
WOODYCREST UNSEWERED AREA SANITARY SEWER LINE EXTENSION
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

MCE ENGINEERING SERVICES DEPARTMENT

PROJECT NO. ES 2017-06
WOODYCREST UNSEWERED AREA SANITARY SEWER LINE EXTENSION
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