TRAFFIC (T1 - T7)
T.1: ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COST SPECIFICATION 125.0 REMOVAL OF TRAFFIC ITEMS.
T.2: MANHOLE RIMMERS REMOVED ON BURNS AND MANHOLE RIMMERS SHALL BE OF A CURVE PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D-4956 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON CURBS AND PIPE TERMINALS SHALL BE OF HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D-4956 TYPE IIX RETROREFLECTIVE SHEETING.
T.3: ALL PLASTIC PAVEMENT MARKINGS SHALL BE EITHER:
- DIRECTIONS APPLIED THROUGH USE ON SURFACE AND CONCRETE PAVEMENTS.
- THERMOPLASTIC PAINT MARKINGS SHALL ONLY BE APPLIED WHERE THE SURFACE TEMPERATURE EXCEEDS 60°F FOR ALL WILLING SOURCES PRIOR TO INSTALLATION AND WARMING LIPS STICKS AND BELOW 50°F AT THE TIME OF APPLICATION. PRICE DUE TO INCLUDE FLEX TAPS OR IRON FOR DRAIN PAVEMENT MARKING AND INTERMITTENT MARKING. APPLIED MELT MELT PAVEMENT TAPE (FINDING TAPE) WILL NOT BE ACCEPTED.
T.4: PAINTING SHALL BE MADE ON DRAINAGE BASINS ONLY FOR TRAFFIC CO-ORDINATES DEVICES THAT ARE PROPERTY INSTALLED AND IN GOOD WORKING ORDER. COSTS FOR DELIVERY, INSTALLATION, RELOCATION, MAINTENANCE, REMOVAL, AND REPLACEMENT, AS NEEDED, AT THE DISCRETION OF THE ENGINEER, INCLUDED IN UNIT PRICE.
T.5: WARNING SIGNS MAY BE USED ON TRAFFIC CONTROLS DEVICES. TYPE "I" WARNING SIGNS SHALL NOT BE USED ON DANGER MARKING AND WARNING DEVICE IDENTIFIED AS NOT LISTED. AND SHALL NOT BE USED FOREROSION OF THE TRAFFIC WAVES. ONLY TYPE "C" WARNING SIGNS SHALL BE USED FOR DIVERSION OF THE TRAFFIC WAVES, AND TYPE "C" WARNING SIGNS MAY BE USED FOR OTHER PURPOSE.
T.6: THE PAY ITEM FOR STAIRS SHALL BE PAID FOR ON A FIRM DAY/T DAILY BASIS. ONE DAILY IS ONE COMPLETE WORKDAY AS PERFORMED BY THE CONTRACTOR, BID FIRM IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
T.7: PRICE FOR THIS ITEM INCLUDES INSTALLATION, MAINTENANCE, AND SUBSEQUENT REMOVAL OF PROJECT SITES.

REMOVAL / ADJUSTMENT (R1 - R6)
R.1: WASTE MATERIALS TO BE LEFT THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AT A RISK APPRAISED BY THE ENGINEER.
R.2: ALL GUTTERS AND WATER COUPLING, COMPLETE, IN THE COST OF THE ITEM TO BE ADJUSTED, REMOVED, REPAIRED, OR REPLACED.
R.3: NOT USED.
R.4: NOT USED.
R.5: NOT USED.
R.6: ITEMS TO BE REMOVED MAY OR MAY NOT BE PRESENT IN ANY UNIVERSITY CONTRACT.
R.7: SHALL INCLUDE ALL COSTS ASSOCIATED WITH PAVING PATIOING.

GENERAL (G1 - G10)
G.1: LOCATIONS TO BE DETERMINED IN THE FIELD. WORK TO BE PERFORMED AT THE DIRECTION OF THE FIELD ENGINEER. QUANTITY IS ESTIMATED AND MAY BE DETERMINED IN ITS ENTIRELY.
G.2: MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE SECTION 13H OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. CURRENT EDITION. EXCLUDES REPLEMENTATION FOR WATERLINE WORK.
G.4: THE COST TO REPLACE REMOVED OR DAMAGED SECTION CORRIDORS AND ALL OTHER PERMANENT RIGHT OF WAY MARKINGS SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NO ADDITIONAL PAYMENT WILL BE MADE.
G.5: CONTRACTOR SHALL REPAIR ALL IRRIGATION SYSTEMS DAMAGED ON REQUESTING RELATION TO THE CONSTRUCTION OF THIS PROJECT TO THE SATISFACTION OF THE PROPERTY OWNER AND CITY AMBROSE. COST SHALL BE INCLUDED IN THE PRICE BID.
G.6: ALL GUTTERS AND WATER COUPLING, COMPLETE, IN THE COST TO BE INCLUDED IN THE PRICING AS PART OF THE PROJECT BID. COST SHALL BE INCLUDED IN THE PRICE BID.
G.7: AN INTERNATIONAL SOCIETY OF ARBORICULURE (ISA) CERTIFIED ARBORIST SHALL OVERSIGHT ALL PLANTING AND OR REMOVAL OF TREE. CONTRACTOR AMBROSE TO ACCEPT FINAL PLANTING CONTACT # (918) 619-5428.
G.8: TREE SPACES ARE NOT ACCEPTABLE PER CITY AMBROSE. ALL PLANTING ARE TO BE USED AS NEEDED WITHOUT ADDITIONAL TIES.
G.9: CONTRACTOR SHALL COORDINATE WITH HOMEBUYERS TO REMOVE ALL PACER, LANDSCAPE STICKS, PRIVACY SCREENS AND FENCES THAT ARE DESTROYED DURING CONSTRUCTION OPERATIONS.
G.10: ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR REPLACING SUCH ITEMS TO BE INCLUDED IN PRICE BID FOR UPRIGHT RIGHT OF WAY RESTORATION.

DRAINAGE (D1 - D15)
D.1: NOT USED.
D.2: NOT USED.
D.3: NOT USED.
D.4: NOT USED.
D.5: NOT USED.
D.6: NOT USED.
D.7: NOT USED.
D.8: NOT USED.
D.9: NOT USED.
D.10: NOT USED.
STORMWATER MANAGEMENT PLAN

SITE DESCRIPTION

PROJECT LIMITS:
S. Mingo Road between Admiral Blvd & E 11th St S

PROJECT DESCRIPTION:
Pavement rehabilitation and water line replacement

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:
1) Place temporary sediment control devices at off site drainage locations, where runoff may leave the work site

SOIL TYPE:
lean to flat clay loam

AREA TO BE DISTURBED:
2 Acres, paved

OFFSITE AREA TO BE DISTURBED:
3) Offsite construction

NAME OF RECEIVINGWATERS:
Mingo Creek

SENSITIVE WATERS OR WATERSHEDS:
YES: X NO

303(d) IMPAIRED WATERS:
YES: X

NOTE:
This sheet should be used in conjunction with a drainage map that illustrates the drainage patterns/pathways and receiving waters for this project. This sheet should also be used with the erosion control summaries, pay items, & notes.

REVISED: 04/24/2016

STORMWATER MANAGEMENT PLAN

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

TEMPORARY SEEDING

PERMANENT SODDING, SPRIGGING OR SEEDING

VEGETATIVE MULCHING

SOIL RETENTION BLANKET

PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES:

STABILIZED CONSTRUCTION ENTRANCE

TEMPORARY SILT FENCE

TEMPORARY SILT DIKES

TEMPORARY FIBER LOG

DIVERSION, INTERCEPTOR OR PERIMETER DIKES

DIVERSION, INTERCEPTOR OR PERIMETER SWALES

ROCK FILTER DAMS

TEMPORARY SLOPE DRAIN

PAVED DITCH W/ DITCH LINER PROTECTION

TEMPORARY DIVERSION CHANNELS

TEMPORARY SEDIMENT BASINS

TEMPORARY SEDIMENT TRAPS

TEMPORARY SEDIMENT FILTERS

TEMPORARY SEDIMENT REMOVAL

INLET SEDIMENT FILTER

TEMPORARY BRUSH SEDIMENT FILTERS

SANDBAG BARRIERS

TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

HAUL ROADS DAMPENED FOR DUST CONTROL

LOADED HAUL TRUCKS TO BE COVERED WITH TARPALIN

EXCESS DIRT ON ROAD REMOVED DAILY

NOTE:

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 UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 IN AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY EROSIONIBLE AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

WASTE MATERIALS:
PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR. MATERIALS INCLUDE STOCKPILES, SURPLUSES, DEBRIS AND ALL OTHER PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

HAZARDOUS MATERIALS:
PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

GENERAL NOTES:
A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH A COPY OF THE NOTICE OF INTENT (NOI) FORMS THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESS OF THE PROJECT. ALL CONTRACTOR OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, IE, BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORMWATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORMWATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAMINATION OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORMWATER POLLUTION.

THE FOLLOWING SECTIONS OF THE 2009 CODT STANDARD SPECIFICATIONS SHOULD BE NOTED:

103.05 Bonding Requirements
104.10 Final Cleaning Up
104.12 Contractor's Responsibility for Work
104.13 Environmental Protection
106.08 Storage and Handling of Materials
107.01 Laws, Rules and Regulations to be Observed
107.15 Stormwater Management
220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORMWATER POLLUTION PREVENTION AND CONTROL
221 TEMPORARY SEDIMENT CONTROL

IN ADDITION:
"ODQ GENERAL PERMIT (OKR10) FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ, WATER QUALITY DIVISION, SEPTEMBER 18, 2017.
GENERAL DEMOLITION NOTES
1. ALL CONCRETE AND ASPHALT SHALL BE REMOVED FULL DEPTH AND REMOVED OFF SITE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS.
3. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS OFF SITE.
4. ON-SITE ASBESTOS SHALL BE PROTECTED AS NOTED. IN DESIGNATED PROTECTION AREAS WHERE THE CONTRACTOR DOES NOT PROTECT VEGETATION AS NOTED. CONTRACTOR SHALL RESTORE VEGETATION TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
5. ALL EXISTING POWER POLES, POWER LINES AND GUY LINES TO REMAIN.
6. ALL REVEALED NEW HYDROMETERS, WATER METERING AND ANTI-VALVES TO REMAIN, UNLESS NOTED OTHERWISE.
7. REPLACE BURIED CULVERTS PER PIPE AS NOTED.
8. EROSION CONTROL TO BE INSTALLED AND MAINTAINED PER CITY OF TULSA SPECIFICATIONS AND THE STORMWATER MANAGEMENT PLAN.

DEMO LINES/EROSION CONTROL PLAN
SHT 1
AR TERIAL PROJECT: MINGO ROAD
COT PROJECT 144017-P
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

 REMOVAL DRAWINGS AS NOTED, TO THE LIMITS SHOWN BY COORDINATES.

COST TO REMOVE, REPAIR OR REPLACE DAMAGES IS INCLUDED IN PRICE BD FOR "URBAN ROW RESTORATION"

COST TO REMOVE OTHER ITEMS NOTED OR OTHERWISE, WHEN NOT ARRESTED SHALL BE INCLUDED IN PRICE BD FOR "REMOVAL OF STRUCTURES AND OBSTRUCTIONS"

MILL TO CONCRETE, APPROX 4"

REMOVE ASPHALT DRIVE

TEMPORARY Silt FENCE

REMOVE ASPHALT PAVEMENT, FULL DEPTH

TYPE A PCC PAVEMENT, ARTERIAL (COT STD 126)