

ENVIRONMENTAL NOTES

NOISE

CONTRACTOR MUST MAKE REASONABLE EFFORTS TO MINIMIZE CONSTRUCTION NOISE.

CONTRACTOR MUST MAINTAIN EQUIPMENT IN GOOD WORKING ORDER IN SUCH A WAY AS TO MINIMIZE UNNECESSARY NOISE. USE OF PROPERLY SIZED AND MAINTAINED MUFFLERS WILL BE REQUIRED ON MACHINERY SO EQUIPPED. ENGINE ENCLOSURES MUST BE CLOSED ON MACHINERY SO EQUIPPED. CONTRACTOR MUST LIMIT UNNECESSARY IDLING OF CONSTRUCTION VEHICLES AND EQUIPMENT DURING PERFORMANCE OF THE CONTRACT.

EQUIPMENT OPERATORS MUST BE INSTRUCTED TO DRIVE FORWARD INSTEAD OF BACKWARD WHEN POSSIBLE TO MINIMIZE BACKUP ALARMS. TO LIFT INSTEAD OF DRAG MATERIALS WHEN POSSIBLE, AND TO AVOID SCRAPING OR BANGING ACTIVITIES THAT CAN BE ACCOMPLISHED BY QUIETTER METHODS WHEN POSSIBLE.

UNLESS APPROVED BY THE ENGINEER, WORK HOURS WILL BE DURING DAYTIME HOURS - NORMALLY DEFINED AS 7AM TO 10 PM - TO MINIMIZE NOISE DISTURBANCES TO ADJACENT PROPERTIES.

STATIONARY NOISE SOURCES UTILIZED BY THE CONTRACTOR SHOULD BE PLACED AS FAR FROM RESIDENTIAL RECEPTORS AS POSSIBLE AND PRACTICAL.

AIR QUALITY / DUST CONTROL NOTES

THE CONTRACTOR WILL BE RESPONSIBLE FOR USING REASONABLE DUST CONTROL MEASURES. THE CONTRACTOR MUST BE FAMILIAR WITH ANY FEDERAL, STATE OR LOCAL LAWS THAT AFFECT THE CONDUCT OF WORK WITH REGARDS TO FUGITIVE DUST AND EMISSION CONTROL.

BECAUSE OF THE URBANIZED SETTING OF THIS PROJECT, SPRINKLING OF THE GRADE AND HAUL ROADS WITH WATER WILL BE UTILIZED TO ASSIST IN CONTROLLING FUGITIVE DUST. CONTRACTOR MUST PERIODICALLY SPRINKLE THE GRADE AND ANY HAUL ROADS TO MINIMIZE DUST AS REQUIRED BY THE ENGINEER. ALL LABOR, MATERIALS AND INCIDENTALS NECESSARY FOR SPRINKLING THE GRADE AND HAUL ROADS ARE CONSIDERED INCIDENTAL AND WILL NOT BE MEASURED FOR PAYMENT. PAYMENT FOR THIS ITEM MUST BE INCLUDED IN OTHER ITEMS OF WORK.

TRUCKS TRANSPORTING MATERIAL MUST BE COVERED WITH A TARP OR OTHER COVERING IN ORDER TO PREVENT ADDITIONAL FUGITIVE DUST.

TO MINIMIZE EXHAUST EMISSIONS, CONTRACTORS MUST UTILIZE EMISSION CONTROL DEVICES ON MACHINERY SO EQUIPPED. CONTRACTOR MUST LIMIT UNNECESSARY IDLING OF CONSTRUCTION VEHICLES DURING THE PERFORMANCE OF THE CONTRACT.

ARCHAEOLOGICAL NOTES:

AS REQUIRED BY SECTION 202.02(aX1) OF THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, IF ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED DURING EXCAVATION ACTIVITIES, THE CONTRACTOR SHALL IMMEDIATELY CEASE THE EXCAVATION OPERATION AND NOTIFY THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL CONTACT THE ODOT CULTURAL RESOURCES PROGRAM (405-325-7201) FOR AN EVALUATION. FOR PURPOSES OF THIS NOTE, "ARCHAEOLOGICAL REMAINS" INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING ITEMS:

1. HUMAN SKELETAL REMAINS
2. FOSSILIZED REMAINS OF LARGE ANIMALS
3. CHIPPED STONE FLAKES, SPEAR POINTS, ARROWHEADS, AND ANY OTHER STONE TOOLS
4. PREHISTORIC POTTERY AND POTTERY FRAGMENTS
5. LARGE DUMPS OR CONCENTRATIONS OF EARLY HISTORIC (1880 - 1920) HOUSEHOLD DEBRIS (BOTTLES, GLASSWARE, CROCKERY, CHINA, BRICKS, HARDWARE, STRUCTURAL REMAINS, ETC.)
6. UNEXPECTED BURIED STRUCTURES (CELLARS, BASEMENTS, FOUNDATIONS, UNDERGROUND PASSAGES, ETC.) DATING TO THE 1880 - 1920 PERIODS.

CONSTRUCTION PERSONNEL SHALL NOT COVER, DISCARD, OR PRIVATELY COLLECT ANY ITEMS OF ARCHAEOLOGICAL SIGNIFICANCE DISCOVERED DURING THE COURSE OF EXCAVATION WORK. ALL SUCH DISCOVERIES MUST BE REPORTED TO PROPER AUTHORITIES AS DETAILED ABOVE.

ENCOUNTERING HAZARDOUS MATERIALS

GENERAL:
HAZARDOUS SUBSTANCES SHALL MEAN THOSE SUBSTANCES OR MATERIALS AS DEFINED IN APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. CONTAMINATED SUBSTANCE SHALL MEAN MATERIALS INCLUDING BUT NOT LIMITED TO SOIL, GROUNDWATER, SURFACE WATER, AND OTHER MATERIALS THAT CAN ONLY BE LEGALLY DISPOSED IN A REGULATED AND PERMITTED DISPOSAL FACILITY.

ALL WORK INVOLVING THE SCREENING, REMOVAL, REMEDIATION, HANDLING, TRANSPORTATION, TREATMENT OR DISPOSAL OF HAZARDOUS AND / OR CONTAMINATED SUBSTANCES SHALL BE PERFORMED BY ODOT'S ENVIRONMENTAL CONSULTANT / CONTRACTOR, UNLESS OTHERWISE STATED HEREIN.

KNOWN CONDITIONS:
PETROLEUM HYDROCARBONS WERE DETECTED IN SOIL BELOW APPLICABLE WORKER PROTECTION CRITERIA IN THE AREA DESIGNATED AS AEC-WP1.5-01, AS SUCH, THE CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO COORDINATE WITH ODOT'S ENVIRONMENTAL PROGRAMS DIVISION AND / OR THEIR DESIGNATED CONSULTANT / CONTRACTOR TO SCREEN SOIL EXCAVATED FOR CONSTRUCTION PURPOSES. DEPENDING UPON FIELD SCREENING RESULTS, POTENTIALLY CONTAMINATED SOIL MAY NEED TO BE SEGREGATED AND STAGED ON -SITE FOR FURTHER TESTING TO DETERMINE PROPER MANAGEMENT.

NEW DISCOVERY OF UNKNOWN HAZARDOUS AND / OR CONTAMINATED SUBSTANCES:
THE CONTRACTOR SHALL IMMEDIATELY CEASE WORKING IN ANY PARTICULAR AREA OF THE PROJECT WHERE AN UNANTICIPATED OR UNKNOWN HAZARDOUS OR CONTAMINATED SUBSTANCE OR MATERIAL HAS BEEN DISCOVERED OR ENCOUNTERED AND SHALL IMMEDIATELY NOTIFY, NO LATER THAN ONE HOUR AFTER DISCOVERY OF SUCH ABNORMAL CONDITION OR POTENTIAL INDICATOR, ODOT OF ANY SUCH DISCOVERY OR ENCOUNTER. UNLESS THE REMOVAL OR REMEDIATION OF SUCH SUBSTANCE OR MATERIAL IS SPECIFICALLY PART OF THE WORK DEFINED WITHIN THE SCOPE OF THE PROJECT.

ENVIRONMENTAL NOTES (CONT.)

ABNORMAL CONDITIONS OR POTENTIAL INDICATORS OF HAZARDOUS OR CONTAMINATED SUBSTANCE INCLUDE, BUT MUST NOT BE LIMITED TO THE FOLLOWING:

- EXISTENCE OF UNDERGROUND STORAGE TANKS OR DRUMS
 - DISCOLORED EARTH, METAL, WOOD, OR OTHER DEBRIS
 - VISIBLE FUMES / VAPORS
 - STRONG OR UNUSUAL ODORS
 - EXCESSIVELY HOT EARTH
 - SMOKE
- SUCH CONDITIONS MUST BE TREATED WITH EXTRAORDINARY CAUTION.

UPON NOTIFICATION BY THE CONTRACTOR OF THE PRESENCE OF UNANTICIPATED OR UNKNOWN HAZARDOUS OR CONTAMINATED SUBSTANCE(S) ON THE PROJECT SITE, ODOT SHALL INVESTIGATE THE CONDITIONS AND PROVIDE FURTHER DIRECTION TO THE CONTRACTOR WITH RESPECT TO THE HAZARDOUS OR CONTAMINATED SUBSTANCE(S).

UNLESS OTHERWISE DIRECTED BY ODOT, THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES, IF FEASIBLE, CONSISTENT WITH PROTECTING THE HEALTH AND SAFETY OF CONTRACTOR'S EMPLOYEES. TO STOP OR MINIMIZE THE IMMEDIATE SPREAD OF ANY HAZARDOUS SUBSTANCE(S) ENCOUNTERED, CONTRACTOR SHALL SECURE THE AREA AS NEEDED TO RESTRICT ACCESS TO THE AREA.

THE CONTRACTOR'S OPERATION MUST PROCEED ON ITEMS OF WORK NOT RELATED TO, OR IN THE VICINITY OF THE HAZARDOUS OR CONTAMINATED SUBSTANCE(S). THE CONTRACTOR'S OPERATION ON THE SITE OF THE HAZARDOUS OR CONTAMINATED SUBSTANCE(S) MUST NOT RESUME UNTIL SO DIRECTED BY ODOT.

CRUDE OIL RELATED

THIS PROJECT IS IN CLOSE PROXIMITY TO AREAS THAT HAVE HISTORICALLY BEEN USED FOR THE EXPLORATION AND EXTRACTION OF CRUDE OIL. ASA RESULT THERE IS A POTENTIAL TO ENCOUNTER CRUDE OIL PRODUCTS AND RELATED WASTES. IF CONTAMINANTS ARE ENCOUNTERED, THE CONTRACTOR WILL IMMEDIATELY CONTACT THE RESIDENT ENGINEER.

IN ADDITION THERE IS A POTENTIAL TO ENCOUNTER GATHERING LINES AND OTHER PIPING, AND ABANDONED (PLUGGED AND UNPLUGGED) OIL / GAS OR SALT WATER DISPOSAL WELLS. ANY OIL OR GAS WELLS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES MUST BE PLUGGED BY PROPERLY LICENSED PERSONNEL. IN ACCORDANCE WITH ALL APPLICABLE OKLAHOMA CORPORATION AND OKLAHOMA WATER RESOURCES BOARD RULES AND REGULATIONS, IF ANY WELLS OR LINES ARE ENCOUNTERED THE CONTRACTOR WILL IMMEDIATELY CONTACT THE RESIDENT ENGINEER.

OIL / GAS WELL PLUGGING - THE GENERAL CONTRACTOR IS ADVISED OF DUE TO THE HISTORICAL OIL AND GAS ACTIVITY IN THE PROJECT AREA, IMPROPERLY ABANDONED OIL / GAS WELLS MAY BE ENCOUNTERED. IF ENCOUNTERED, SUSPECTED OIL / GAS WELLS SHALL BE REPORTED TO THE RESIDENT ENGINEER, WHO IN TURN WILL NOTIFY THE ENVIRONMENTAL PROGRAMS DIVISION. THE OKLAHOMA CORPORATION COMMISSION (OCC) WILL IN TURN BE CALLED UPON FOR FIELD VERIFICATION.

CONTAMINATED GROUNDWATER

THIS PROJECT HAS BEEN DESIGNED TO MINIMIZE GROUNDWATER CONCERNS, AND AS SUCH, EFFORTS SHOULD BE MADE BY THE CONTRACTOR TO MINIMIZE THE NEED FOR DEWATERING DURING CONSTRUCTION. ANY DEWATERING DEEMED NECESSARY FOR CONSTRUCTION IN AREAS OF KNOWN OR SUSPECTED GROUNDWATER CONTAMINATION, INCLUDING BUT NOT LIMITED TO THE AREA DESIGNATED AT 1.5-AEC-01, WILL BE SUBJECT TO PRIOR APPROVAL FROM ODOT.

THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH ODOT ENVIRONMENTAL PROGRAMS DIVISION SHOULD DEWATERING BE NEEDED.

CONTRACT TIME EXTENSIONS

ON PROJECTS WITH INCENTIVE / DISINCENTIVE PROVISIONS, CONTRACT TIME SHALL NOT BE ADJUSTED. CONTRACTOR SHALL OVERCOME ANY DELAYS DUE TO THE CONDITIONS DESCRIBED ABOVE. NORMAL CONTRACT TIME SHALL BE EXTENDED BY OTHER DAYS FOR ANY DELAYS BEYOND THE CONTROL OF THE CONTRACTOR DUE TO THE CONDITIONS DESCRIBED ABOVE ON CRITICAL PATH ITEMS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DOCUMENT TO THE SATISFACTION OF THE ENGINEER THAT CRITICAL PATH ITEMS WERE IN FACT DELAYED.

OKLAHOMA CITY BOULEVARD

OKLAHOMA CO.

DESIGN	KBA	MMPC	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	ISFM	RWH	
CHECKED	KBA		
APPROVED			
SQUAD	MacArthur		
			ENVIRONMENTAL NOTES
			STATE JOB NO. 17428(88) SHEET NO. 8A