

STATE**OF****TENNESSEE**

(REV. 02-25-25)

January 1, 2021

SPECIAL PROVISION**REGARDING****TUNNEL CLEANING****Description**

This work shall consist of the monthly cleaning of the specified tunnels, including collecting of the surface runoff generated by the cleaning operation, and all traffic control measures.

The Contractor shall furnish the labor, materials, and equipment necessary for the cleaning of the walls, ceilings, handrails, barrier walls, walkways, curbs, gutters, roadway surfaces and outside surfaces of all light fixtures from portal to portal of the specified tunnels, including all traffic control.

Control of Work

The Engineer, or appointed representative, will decide all questions that may arise as to the quality and acceptability of the work performed; and the decision shall be binding on the involved parties.

Work Schedule

All work shall be accomplished between the hours of 8 PM and 6 AM Monday evening through Saturday morning.

The Contractor shall submit a proposed work schedule, indicating the dates and times of the work within the tunnels to the Engineer for approval prior to beginning any work. The tunnel cleaning operations shall be expedited to keep closures to a minimum. This information shall be submitted to the city of Chattanooga, Knoxville and Nashville for coordination of emergency vehicles.

Cleaning Procedures

The Contractor shall submit a detailed cleaning procedure to the Engineer that shall include the labor, materials and equipment to be used on the project. Procedures shall include safety precautions that will be taken.

Cleaning materials must be acceptable to the Engineer. These materials must be capable of producing the desired results without damage to the tunnel, vehicles, the motoring public, and the environment in general.

A cleaning vehicle, minimum 31,000 GVWR truck chassis equipped with driver/operator cab, drive train, water tank, cleaning material tank, spray bars, and cleaning brushes, shall be required to perform the work in this contract. Spray bars shall be capable of dispensing cleaning materials and rinse water onto the tunnel surface. Mechanical rotary cleaning brushes, on a boom arm assembly capable of reaching all surfaces, shall rotate by mechanical means on the surface being cleaned, at a pressure sufficient to clean the tiled and painted surfaces, but without damaging these surfaces. The brushes shall be capable of applying uniform pressure when cleaning by a

hydraulic system that automatically adjusts when the vehicle changes horizontal position, and the brush boom arm moves vertically. The only manual cleaning allowed will be when the cleaning vehicle does not thoroughly clean the surface due to an irregular surface, handrail or other obstruction or the cleaning vehicle does not provide thorough cleaning on hard-to-reach surfaces.

All equipment shall be inspected and approved by the Engineer prior to the work order being issued.

The Contractor shall be held responsible for any damage caused by their operation, including runoff control, associated with the tunnel cleaning.

Traffic Control

The Contractor shall establish and maintain traffic control work zones and all traffic control devices according to these notes, the State of Tennessee currently adopted edition of the Manual on Uniform Traffic Control Devices (MUTCD) and the TDOT Standard Specifications for Road and Bridge Construction.

Method of Measurement

The Department will measure Tunnel cleaning by the unit Each, which will be measured by the number of cleaning cycles performed on each tunnel.

The Department will measure Maintenance of Traffic by the unit Each, which will be measured by the number of cleaning cycles performed on each tunnel.

Basis of Payment

The accepted quantities of cleaning cycles will be paid for at the contract unit price per tunnel.

Lane closures, traffic control, and traffic control devices required for the cleaning operations shall be included in the unit price bid for the appropriate Maintenance of Traffic items found in this contract.