

**OKLAHOMA DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISIONS  
FOR  
GENERAL PROVISIONS FOR USE OF ELECTRONIC DATA**

These Special Provisions revise, amend, and where in conflict, supersede applicable Sections of the 2009 Standard Specifications for Highway Construction, English and Metric.

*(Add the following:)*

**110.01 ELECTRONIC DATA**

The Department will provide access to electronic data for the purposes of bidding ODOT work and performing highway construction using automated machine guidance systems. The Contractor will be responsible for manipulating the provided file formats to make them compatible with the respective equipment and systems being used.

Electronic data for ODOT highway construction projects may be downloaded from the Department's website: <https://www.ok.gov/odot>. Files will be available for download in dgn format.

Table 110:1 Available Electronic Data	
File Type and Description	Description
Cross Sections	Includes superelevation data and special ditch information
Design Drainage	Includes drainage structure and channel change information)
Design Horizontal and Vertical Alignment w/ 3D Design Line Work	Includes design features such as edge of pavement, shoulders, street returns, and plan and profile sheet information)
Original Digital Terrain Model (DTM)	Original ground survey including topographic data
Design Digital Terrain Model (DTM)	Proposed final surface (includes separate terrain models for phasing if available)
Right-of-Way	Displayed as linework for proposed right-of-way on the project plan and profile sheets
Traffic Control	Proposed layout of traffic control devices
Lighting and Signals	Proposed layout of traffic lighting and signals
Bridge and Retaining Wall Drawings	Plan detail sheets

Although the Department has established a standardized format for electronic data and the transmission of such, it is possible that the electronic data provided was not originally created or transmitted in an approved format and has been consequently converted. Therefore, the Department does not assume responsibility for inaccuracies or omissions contained within the data, or for any losses caused by such errors.

The Plans indicate the areas of the project where the Department is providing electronic surface models within the project right-of-way. Areas outside of this may be constructed using conventional construction survey techniques. The additional surface models may be generated to facilitate automated machine guidance in those areas at no additional cost to the Department.

### **110.02 USE OF ELECTRONIC DATA FOR BIDDING**

As a service to bidders, prior to letting the Department may supply electronic files containing point station, offset, and elevations for the data shown in the cross sections. The files depict the original ground, subgrade, and final grade. No representation is made that the electronic information provided is complete or accurate. All bids should be prepared from the plans. If any discrepancies are noted between the plans and this electronic information, the information in the plans supersedes the electronic file(s). The Department will not consider claims related to the use of the electronic information.

### **110.03 USE OF ELECTRONIC DATA FOR CONSTRUCTION**

As a service to the Contractor, the Department may supply electronic files containing point station, offset, and elevations for the data shown in the Plans. The electronic data may be used to perform highway construction using automated machine guidance systems. Automated machine guidance (AMG) is defined as the utilization of positioning technologies such as global positioning systems (GPS), Robotic Total Stations, laser systems, etc. to automatically guide and adjust construction equipment according to the intended design requirements.

Automated machine guidance is not a mandatory requirement. Automated machine guidance, conventional staking, or a combination of both may be used at the Contractor's option for staking on this project.

The Department believes the electronic data provided to be accurate, but provides no guarantee. The documents originally provided in the Contract remain the basis of the Contract, and the electronic data provided is intended for informational purposes in order to assist the Contractor with the use of survey and automated machine control. Therefore, no compensation will be considered for expenses incurred by the Contractor due to the use of the electronic data.

The electronic information is not to be considered a representation of actual conditions to be encountered during construction. The Contractor assumes full responsibility for any assumptions made from the electronic information. The Contractor is expected to perform an investigation of conditions to be encountered, including but not limited to site visits.