

Specifications & Inspector's Role  
Module 2

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- Specifications & Inspector's Role
- Review specifications to be covered
  - How specs are laid out
  - Inspector's Role

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- Specs to be Covered
- Section 00150 Control of Work
  - Section 00190 Measurement of Pay Quantities
  - Section 00620 Cold Plane Pavement Removal
  - Section 00730 Asphalt Tack Coat
  - Section 00745 Hot Mix Asphalt Concrete

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**Specification Format**

**Subsection Divisions** - Each section of ODOT's Standard Specifications is divided into up to 10 divisions. Each section may not have all subsections.

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**Specification Format**

All sections require the following subsections:

- Description
- Materials
- Construction
- Measurement
- Payment

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**Specification Format**

- .00-.09 Description
- .10-.19 Materials
- .20-.29 Equipment
- .30-.39 Labor
- .40-.49 Construction
- .50-.59 Temporary
- .60-.69 Maintenance
- .70-.79 Finishing and Cleaning Up
- .80-.89 Measurement
- .90-.99 Payment

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**Inspector's Role**

**00150.01** The Project Manager shall have the authority to appoint Inspectors and other personnel as required to assist in the administration of the Contract.

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**Inspector's Role**

**00150.02 Inspectors' Authority and Duties** - To the extent delegated under 00150.01, Inspectors are authorized to represent the Engineer and Project Manager to perform the following:

- Inspect Work performed and Materials furnished, including without limitation, the preparation, fabrication, or manufacture of Materials to be used;
- Orally reject defective Materials and to confirm such rejection in writing;
- By oral order, temporarily suspend the Work for improper prosecution pending the Engineer's decision; and
- Exercise additional delegated authority.

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**Inspector's Role**

**Inspectors are not authorized to:**

- Accept Work or Materials.
- Alter or waive provisions of the Contract.
- Give instructions or advice inconsistent with the Contract Documents.

**Make sure you:**

- Confirm what authority your PM delegates to you
- Contractor is aware of your delegated authority

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### ODOT Inspector's Manual

- Provides guidelines to the Inspector for inspecting and documenting work on ODOT contracts.
- Sections specific to HMAC are:
  - Section 730
  - Section 735
  - Section 744
  - Section 745
  - Section 749

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### ODOT Inspector's Manual

Each Section has the following topics:

- Quality
- Safety
- Construction
- Measurement

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### ODOT Inspector's Manual

- The following slides provide examples from Section 700 of the the Inspector's manual.
- The entire Section 700 is included as an attachment to this chapter.

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- For delivery of the mixture to the paving machine:
  - Mixture is delivered to the paving machine with no detrimental change in its characteristics
  - Haul vehicle beds are clean and treated with an approved release agent
  - Mixture is loaded into the haul vehicles such that segregation is minimized
  - Loads are covered, as required, or otherwise protected to maintain acceptable temperature of the mixture
  - Temperature of the delivered mixture is appropriate for proper placement
  - Adequate traffic control, according to the Traffic Control Plan, and routing of the haul vehicles allows the work to be accomplished with minimum impact to traffic
  - The number of haul vehicles is sufficient to allow mixture placement to be performed as continuously as possible. If the number of vehicles is not sufficient, suspend operations until sufficient vehicles are provided or sufficient mixture is supplied to resume normal operation.
  - Mixture is unloaded without segregation or bumping or moving the paving machine
  - The pick-up machine, if used, picks up substantially all mixture from roadway

Adequate traffic control is implemented and maintained, according to the Traffic Control Plan.

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- For placement and compaction of the EAC mixture:
  - Paving limits are clearly and properly marked, including location and
- For delivery of the mixture to the paving machine:
  - Mixture is delivered to the paving machine with no detrimental change in its characteristics
  - Haul vehicle beds prevent leakage of hauled EAC or any liquids
  - Haul vehicle beds are clean and treated with an approved release agent
  - Mixture is loaded into the haul vehicles such that segregation is minimized
  - The number of haul vehicles is sufficient to allow EAC placement to be performed as continuously as possible. If the number of vehicles is not sufficient, suspend operations until sufficient vehicles are provided or sufficient mixture is supplied to resume normal operation.
  - Mixture is unloaded without segregation or bumping or moving the paving machine
  - Adequate traffic control, according to the Traffic Control Plan, and routing of the haul vehicles allows the work to be accomplished with minimum impact to traffic
  - The pick-up machine, if used, picks up substantially all mixture from the roadway

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QAC or the Pavement Quality Engineer, if this or other problems

→ If measurement is by mass, assure that the Contractor has an acceptable scale to measure the mass of each load. Assure that overweight loads are not allowed on the roadway. Refer to Section 00190.20 of the contract and the Weigh Memos and Scale Diary subsection of the Quantities section (12-D) of the Construction Manual for scale certification, scale diary, and check weights.

→ Establish a procedure to safely gather the Weigh Memo and Material Receipt, or similar format, for each load incorporated. When possible, use the procedure in the Quantities section (12-D) of the Construction Manual to avoid having the material receiver in the work area. Calculate the sum of all loads delivered each day and submit that calculation, with the Weigh Memo and Material Receipts or similar format, as a Source Document to justify payment.

→ If measurement is by volume in the haul vehicle, measure each haul vehicle. Record those measurements and calculate the volume of each vehicle on a Source Document. As work is performed, record the placement of each load and prepare and submit a Source Document to justify payment.

Quality  
Quality requirements are specified in the contract and in the Standard-Tested Materials Association Guide.  
Assure that the Contractor is aware of those requirements and provides acceptable quality documentation before the material is incorporated.

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Expectations of Paving Inspectors

- Clean Surface
- Uniform Tack
- Continuous Paving
- Uniform Surface Texture
- Tight, Even, Straight Longitudinal Joints
- Proper Compacted Thickness

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Expectations of Paving Inspectors

- Compaction
  - Spec Equipment
  - Proper Temperature
  - Adequate Compactive Effort
  - Achieve Density
  - Monitor Rolling Pattern
- Smoothness

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Expectations of Paving Inspectors

- Lay out quality and workmanship expectations at pre-paving meeting
- Point out problems to the Contractor while they are occurring, not after the fact
- Work with Contractors to resolve problems
- Apply good common sense

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**QUESTIONS/COMMENTS**



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