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## Section 8.12

# VALUE ADDED FEATURES

### 8.12.1 Purpose

To establish a standard administrative procedure for tracking and monitoring Value Added Features (VAF) with regard to compliance with the specifications and for inspecting and accepting remedial work required to restore these features to full compliance with the specifications, when not in compliance. A feature is designated as "VAF" if the Responsible Party, as designated herein and in the construction contract, is responsible for the performance of that feature for the period of time as defined by the contract, after final acceptance of the project in accordance with Article 5-11. The Responsible Party will remain contractually obligated to ensure the feature performs in compliance with the specifications for the specified period of time. Remedial work shall be completed in accordance with the contract. This procedure is primarily for the use of District Construction and Maintenance personnel responsible for monitoring and tracking value added warranty features. In order to maximize the use of Department resources, the Department's routine Maintenance inspection program(s) should be utilized as much as possible for warranty related inspections to evaluate projects with Value Added Features.

### 8.12.2 Authority

Section 334.048(3), Section 20.23(4)(a) Florida Statutes (FS)

### 8.12.3 References

The following contract specifications deal with Value Added Features (VAF):

- (1) Specification Section 338, Value Added Asphalt Pavement
- (2) Specification Section 355, Value Added Portland Cement Concrete Pavement
- (3) Specification Section 475, Value Added Bridge Components
- (4) Specification Section 570, Performance Turf
- (5) Specification Section 580, Landscape Installation
- (6) Specification Section 645, Value Added Signal Installation
- (7) Specification Section 701, 702, 709, 711 and 713, Traffic Stripes and Markings
- (8) Specification Section 725, Value Added Highway Lighting Systems
- (9) Other Warranty Items

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### 8.12.4 Definitions

The following definitions are for use with this procedure:

**Contract Information & Monitoring (CIM):** The Department's project database used to monitor and track the performance dates of a VAF during the warranty period.

**District Warranty Coordinator (DWC):** Department employee designated by the District Construction Engineer or District Operations Engineer, responsible for the administration of VAWF under the warranty provisions of a contract.

**Other Warranty Items (OW):** An item or segment of work, which by agreement of the contracting parties, will be warranted or guaranteed for a specific period of time.

**Pavement Condition Survey:** A LOT-by-LOT in-depth evaluation of the pavement for the ride quality, rutting, and other performance thresholds associated with Value Added pavements. The evaluation is conducted by the Pavement Section of the District Materials office (DMO) or the State Materials Office (SMO) in Gainesville.

**Remedial Work (RW):** Corrective measures performed by the Responsible Party on a VAWF feature to restore the feature to compliance with the specification.

**Responsible Party (RP):** The party contractually obligated to ensure that a VAF performs in full compliance with the contract requirements for the designated period of time following final acceptance.

**Value Added Feature (VAF):** A feature designated by the specifications that requires a Responsible Party to be contractually obligated for and warrant the performance of the feature as described by the contract.

**Warranty Period:** The period of time designated in the contract or by agreement for which the Responsible Party is contractually obligated for the performance of the VAF.

### 8.12.5 General

This procedure covers all VAF listed above. The VAF have certain procedural steps that are common to all as well as steps that are unique to each. Therefore, the following includes one subsection for common procedural steps as well as individual subsections for each of the unique steps pertaining to the VAF.

Districts may designate an individual or individuals as the District Warranty Coordinator (DWC). This individual administers the warranty program for the District. The common

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procedural steps primarily cover duties of the District Warranty Coordinator (DWC) that must take place prior to the steps unique to each feature.

### 8.12.6 Common Procedure Steps

- (1) The DWC shall develop and maintain a list of projects that have VAFs. The list should be updated by adding projects after award and execution of a project with value added features. The information gathered for each project should include at a minimum, the identification of each VAF to be incorporated into the project and contact information for all individuals responsible for administration and performance of the feature. Once a VAWF has been identified based on the contract, it can be selected from the pre-defined drop down menu in the CIM system. The durations for the warranty period for a VAF are pre-loaded by the CIM system based on the warranty duration designated by the specifications.
- (2) Project personnel responsible for the administration of the project should identify and enter the required warranty data into the CIM system prior to or at final acceptance of the project. Information pertaining to the VAF is identified in the applicable specifications for the contract. The appropriate contact information for each VAF should include the RP for the feature as well as the maintenance and construction personnel involved in the administration of the project. Project personnel responsible for entering the warranty information shall notify the appropriate DWC once the information has been entered into the system.
- (3) The DWC shall review the VAF data entered into CIM by the project personnel for accuracy and completeness. The DWC shall ensure that any revisions are addressed correctly. The DWC will be responsible for the administration of the warranty throughout the warranty period.
- (5) The DWC will be responsible for coordinating with District and SMO personnel responsible for performing inspections or evaluations of the VAFs. Warranty inspections for the VAF shall, at a minimum, be done at intervals as assigned by the CIM system. The CIM tracking system will automatically notify the DWC of upcoming warranty inspection needs.
- (6) The inspections results, for the interim and final inspections shall be input into the CIM tracking system. All comments, reports and inspection documentation generated during the inspection may be input in the CIM using the General tabs located in the upper right corner of the Value Added Feature page. Additional guidance on use of the CIM Tracking system is provided by the "VAF User Guide" located in the upper left corner of the Value Added Feature page. Upon completion of the interim or final inspection of the feature, the status of the inspection shall be entered into the system as "COMPLETED" or "ONGOING". The warranty

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inspections status will be designated as “COMPLETED” when no deficiencies are found and “ONGOING” when deficiencies detected. The “ONGOING” inspection status will remain until such time as all deficiencies have been corrected.

- (7) The DWC will be responsible for coordinating the required remedial work performed by the RP and District personnel responsible for oversight and acceptance of the remedial work.
- (8) The DWC will coordinate a final inspection of the VAF to ensure that the final inspection occurs prior to the end of the warranty period. The Final inspection is defined in the contract and is to occur in advance of the warranty end date to allow for any administrative actions required under the warranty provisions for the feature. All notifications for required remedial actions shall be provided to the RP prior to the end date of the warranty period. If corrections are needed for the project, the DWC will manage and coordinate the RW for the feature in accordance with the specifications and this procedure.

### **8.12.7 Dispute Resolution**

The Statewide Disputes Review Board (SDRB), as provided in the appropriate specification, shall be used to resolve disputes that arise on contracts which contain Value Added Features. A SDRB will be used to resolve any and all disputes that may develop involving the administration and enforcement of the specifications. The determinations of a SDRB shall be binding on both the RP and the Department, with no right of appeal by either party. The RP party will be responsible for requesting and scheduling the disputes review board hearing. The DWC will coordinate all aspects of the hearing on behalf of the Department. SDRB decisions shall be sent to the State Construction Office for review.

All correspondence and documentation pertaining to the SDRB proceedings shall be input into the CIM tracking system.

### **8.12.8 Failure To Perform**

Should the RP fail to timely submit and schedule a hearing before the SDRB, fail to satisfactorily perform the remedial work, or fail to compensate the Department for any remedial work performed by the Department which is determined to be the responsibility of the Responsible Party, the DWC, with concurrence from the DCE, shall provide notification to the Statewide Warranty Coordinator in the State Construction Office (SCO) to initiate the appropriate action in accordance with the specifications.

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Upon notification by the District, the SCO will review and initiate the appropriate action pursuant to the terms of the contract. The SCO will review contract, the information provided by the DWC and make a determination as to the appropriate action(s) to be taken in accordance with the terms of the contract.

The SCO will initiate available administrative or contractual actions as a result of a RPs failure to perform the contract requirements for VAF.

For Design Build Projects, the Contractor or the designated RP shall be responsible for the RW for the duration specified in the Value Added Feature specifications. The project staff and the DWC should review the Request For Proposal (RFP) and the Contractors Technical proposal to determine the actual items and durations covered by the warranty provisions of the contract.

### **8.12.9 VALUE ADDED ASPHALT PAVEMENT (Spec. Section 338)**

#### **8.12.9.1 Pavement Performance Monitoring Operations**

(1) The DWC will be responsible for coordinating inspections of the value added asphalt pavement at intervals as prescribed by the specifications. The CIM tracking system will automatically notify DWC of need for inspections at pre-determined intervals. The CIM system allows additional interim inspections to be scheduled on an as needed basis. Any comments or notations pertaining to observations made during the inspections should be entered into the system using the notes tab on the VAF page. All pertinent documentation pertaining to the inspection/evaluation of VAF shall be entered into the system under the "File" tab as attachments for the inspection.

(2) District inspection personnel should perform periodic inspections by driving through the project and randomly stopping at locations to visually inspect the pavement for any distresses. Pavement deficiencies shall be classified and documented in accordance with the "Category of Pavement" as defined by the Valued Added Asphalt Pavement specifications. The frequency of inspections, as determined by the CIM tracking system will be annually (as a minimum). Inspection personnel shall document the inspection results with sufficient detail to allow the DWC to make a determination whether further evaluation is required. The inspection results shall be sent to the DWC for review and disposition to the appropriate parties. The DWC will coordinate with the appropriate District Materials Office personnel and other Department personnel as required. All pertinent information and documentation shall be input into the tracking system.

#### **8.12.9.2 Assessment of Pavement Distresses**

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(1) The Department's Pavement Condition Survey (PCS) Program, along with observations and inspections by Department personnel, will be used as the basis for determining the extent and magnitude of the pavement distresses that exceed the threshold values defined by the specification. The Department, as a function of Pavement Management Program, annually surveys all highways on the State Highway System. The survey is conducted normally in the outside lane only. The Pavement Management Office analyzes the Pavement Condition Survey information and develops a report annually providing information for all asphalt warranty projects exceeding the rut threshold. The report is available at the following link:

<http://infonet.dot.state.fl.us/PavementManagement/OnlineReports/performanceInfo.htm>

The Department will perform annual inspections (as a minimum) to monitor the pavement performance throughout the warranty period. If deficiencies are observed during the inspections, the observations shall be documented with sufficient supporting documentation to enable the DWC to determine if further evaluation is required. The District may, based on the visual observations during the interim inspections or the analysis of the annual Pavement Condition Surveys, request a more in depth PCS by contacting the SMO or use the online request form at the following link:

<http://www.dot.state.fl.us/statematerialsoffice/pavement>

The DWC will be responsible coordinating inspections during the warranty period. The DWC will notify the RP in writing if the Department determines that a PCS will be conducted.

(2) If the survey is conducted at or near the end of the warranty period, the SMO or DMO should be contacted sufficiently in advance of the expiration date to allow the survey to be conducted and notification (if required) to the RP within the timeframes established in the contract that remedial work will be required. The RP must receive written notification of "Required Remedial Action" prior to the expiration of the warranty period. If no deficiencies are observed during the inspections (interim or final) the inspection result will be entered into the CIM tracking system as "COMPLETE" and no further action is required. All documentation produced as a result of the inspections shall be entered into the CIM tracking system. If the inspection reveals pavement deficiencies, the DWC will send a copy of the inspection report and all other documentation to the DMO for review. The DWC shall request the District Materials & Research Engineer (DMRE) to provide an assessment of the pavement distresses and provide recommendations as to whether remedial work is required and whether the remedial work is the responsibility of the RP.

(3) The DWC will consult with the DMO and review the inspection information and the PCS (if performed) to determine whether immediate corrective work is required based on the type and severity of the pavement deficiencies. If the pavement distresses do not

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require immediate RW, the DWC will provide the RP with a copy of the results of the inspections (including the PCS if performed) for their review. The RP will be advised that the Department will monitor the pavement performance for the remainder of the warranty period and that RW will be required prior to the end date of the warranty period.

Note: The DWC should review the contract specifications carefully and adhere to the specified timeframes within the specifications.

### **8.12.9.3 Remedial Work Required**

After review of the documentation and the recommendations of the DBE and DMRE, the DWC determines that RW is required, the DWC will immediately provide verbal or electronic notification (email) to the RP that remedial work will be required under the warranty provisions of the contract. The verbal or electronic notification shall be followed with written "Notice of Required Remedial Action" (Notice) to the Responsible Party by certified mail with the appropriate backup documentation. The Notice shall be signed by the District Construction Engineer. The Statewide Warranty Coordinator in the SCO shall be copied on all correspondence pertaining to the remedial work.

The Notice of Required Remedial Action shall request the RP to provide the Department with its plan detailing how the RW will be accomplished and that repairs must begin within 45 calendar days of notification in accordance with the Value Added specifications. The RP will also be advised that if they dispute the Departments findings they are to provide written notification to the Department within 30 calendar days of receipt of the notification and to request a hearing before the SDRB. It will be the obligation of the RP to schedule and coordinate the hearing. A copy of the letter and accompanying documentation will be sent to the District Construction Office and the DWC will be responsible for coordination of the SDRB hearing or the RP's performance of the required RW.

### **8.12.9.4 Responsible Party Not Responsible for Remedial Work**

(1) If the RW is determined not to be the responsibility of the RP, the DWC will coordinate the construction operations of the Remedial Work by the District Maintenance Office or an outside contractor in accordance with the Departments procedures.

(2) When the Remedial Work is completed, the DWC will update the CIM tracking system with all appropriate information.

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(3) The DWC will send a copy of the updated records from the tracking system to the RP for information if requested.

### **8.12.9.5 Performance of the Remedial Work by the Responsible Party**

(1) The DWC (or designee) will be responsible for coordinating the inspection and oversight on behalf of the Department to ensure that the construction operations of the RW are in compliance with all provisions of the contract specifications. The DWC (or designee) will arrange for a qualified inspector to monitor the construction activities of the RP for acceptance of the RW.

(2) If any Remedial Work is unacceptable, the RP shall be required to correct the deficiency to the satisfaction of the Engineer in accordance with the specifications.

(3) When the Remedial Work is completed and accepted, the DWC shall notify the Responsible Party in writing of acceptance of the work and update the information in the CIM tracking system for the project.

## **8.12.10 VALUE ADDED PORTLAND CEMENT CONCRETE PAVEMENT (Spec. Section 355)**

### **8.12.10.1 Pavement Performance Monitoring Operations**

(1) District inspection personnel should perform periodic inspections by driving through the project and randomly stopping at locations to visually inspect the pavement for any distresses. Concrete Pavement deficiencies shall be classified and documented in accordance with the threshold values established in the specification. RW of deficient concrete pavement areas shall be accomplished as defined in the specification. The frequency of inspections, as determined by the CIM tracking system will be annually (as a minimum). The DWC has the option to schedule intermediate inspections as deemed necessary. The length of pavement to be visually inspected at each stop should be at least 200 linear feet in each lane. Inspection personnel shall document the inspection results with sufficient detail to allow the DWC to make a determination whether further evaluation is required. The inspection results shall be sent to the DWC for review and disposition to the appropriate parties. The DWC will coordinate with the appropriate DMO personnel and other Department personnel as required.

### **8.12.10.2 Assessment of Pavement Distresses**

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(1) The Department's Pavement Condition Survey (PCS) Program along with observations and inspections by Department inspection personnel will be used as the basis for determining the extent and magnitude of the pavement distresses occurring on a project. The Department will perform annual inspections (as a minimum) to monitor the pavement performance throughout the warranty period. If deficiencies are observed during the inspections, the observations shall be documented with sufficient supporting documentation to enable the DWC to determine if further evaluation is required. The District may, based on the visual observations during the interim inspections request a PCS by contacting the SMO or use the online request form at the following link:

<http://www.dot.state.fl.us/statematerialsoffice/pavement>

The DWC will be responsible coordinating inspections during the warranty period. The DWC will notify the RP in writing if the Department determines that a PCS will be conducted.

(2) If the survey is conducted at or near the end of the warranty period, the SMO or DMO should be contacted sufficiently in advance of the expiration date (not less than 45 days) to allow the survey to be conducted and notification (if required) to the RP that remedial work will be required. The RP must receive written notification of "Required Remedial Action" prior to the expiration of the warranty period. If no deficiencies are observed during the inspections (interim or final) the inspection result will be entered into the CIM tracking system as "COMPLETE" and no further action is required. All documentation produced as a result of the inspections shall be entered into the CIM.

(3) The DWC will consult with the DMO and review the inspection information and the PCS (if performed) to determine whether immediate corrective work is required based on the type and severity of the pavement deficiencies. If the pavement distresses do not require immediate RW, the DWC will provide the RP with a copy of the results of the inspections (including the PCS if performed) for their review. The RP will be advised that the Department will monitor the pavement performance for the remainder of the warranty period and that RW will be required prior to the end date of the warranty period.

Note: The DWC should review the contract specifications carefully and adhere to the specified timeframes within the specifications.

### **8.12.11 VALUE ADDED BRIDGE COMPONENTS (Spec. Section 475) DESIGN BUILD PROJECTS ONLY**

#### **8.12.11.1 Bridge Components Covered By the VABC Specifications**

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The Value Added Bridge Components (VABC) specification provides a materials and workmanship warranty. For the purpose of this procedure, the prime contractor shall be the Responsible Party in accordance with the specifications. The components covered under the specifications are as follows:

- (1) Bridge Deck Expansion Joints Devices and Hardware
- (2) Coatings
- (3) Bearing Devices
- (4) Bridge Lighting/Electrical System
- (5) Drainage Systems

#### **8.12.11.2 Determining the Category of Deficiency**

- (1) The District Structures Maintenance Office (DSMO) is responsible for inspection of bridges on the State Highway System (SHS). Conventional bridges are required to be inspected at a minimum of every two years and bascule (movable) bridges are required to be inspected once per year. Bridge inspections shall be done in accordance with approved Departmental procedures. The bridge inspection report will identify deficiencies discovered during the routine inspections. The DWC will coordinate with the DSMO to identify bridges which contain VABC. The DWC will coordinate with the DSMO to assure the features covered by the Value Added specifications are given the appropriate attention and documentation during the inspection process. The DWC shall coordinate with the DSMO to ensure that all inspection reports and supporting documentation are input into the CIM tracking system.
- (2) The DWC will review the inspection report in conjunction with the DSMO and determine if RW is required. If the DWC/DSMO determines that RW is required, the DWC shall provide written notification to the Contractor that RW is required under the materials and workmanship warranty provisions of the contract. A copy of the inspection report with supporting documentation shall be provided with the notification. When deficiencies are identified, but immediate RW is not required, the "Element Inspection Notes" of the DSMO inspection report must be transmitted to the Contractor for information. The Element Inspection Notes provide the Contractor with information for making an informed decision about whether or not to perform preventive maintenance on a deficiency before it requires more expensive RW. On occasion, a deficiency will be reported by non-DSMO maintenance personnel, a local government or from the general public. The DSMO must be notified of the deficiency as soon as possible.

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Once the deficiencies are determined which require RW based on the Element Inspection Notes. The DSMO will notify the DWC of the RW with a priority indicated by email, and provide a description of the signing and traffic control that will be required for the repairs. Emergency remedial work requires immediate verbal notification by the DSMO to the RP and the DWC. The verbal notification shall be followed-up with a DSMO Priority 1 Work Order; Non-emergency remedial work requires a priority 2 or 3 (routine priority) DSMO Work Order; and for deficiencies that do not require remedial work, Element Inspection Notes are required in lieu of a work order and these will be sent to the DWC with a copy to the SCO and the Resident Construction Office (RCO).

### **8.12.11.3 Arranging for Emergency Remedial Work-DSMO Work Order**

- (1) When the DWC receives verbal notification from the DSMO, the DWC will immediately provide verbal notification to the RP and to the RCO that will be performing inspection and acceptance of the RW. The DWC shall document the notification in the CIM Tracking System. The RCO shall follow-up verbal notification in writing and shall document the RW operations in the CIM Tracking System. RW shall be accomplished in accordance with the timeframes established in the specifications and in accordance with the contract specifications. RW required under the materials and workmanship warranty provisions of the contract shall be done at no additional cost to the Department.
- (2) During the notification conversation with the RP, the DWC must provide the RP with details of the required RW as well as the location of the required work, the requirements for signing and traffic that will be required. If, during the notification conversation or shortly thereafter, the RP is unable to perform or refuses to perform the RW then the DSMO and the DCE must be notified immediately. The DCE and The DSMO will determine the corrective action to be performed by the Department. If the RW requires immediate traffic control and the RP is unable to provide it then the Department will arrange for traffic control and the RP will be required to reimburse the Department for the expenses.

### **8.12.11.4 Responsible Party Unable To Perform**

- (1) If the RP is unable to perform the RW, but acknowledges the responsibility, then the cost of performing the work with an alternative contractor will be documented and reimbursed by the RP.
- (2) If the RW is determined to be urgent, the Department will provide traffic control as required, at the time of discovery. The RP shall assume the responsibility of the traffic control as soon as possible. The RP shall provide a verbal description of the

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traffic control plan and must be approved by the RCO. The RP shall follow-up the verbal request with a written Traffic Control Plan for approval as soon as possible.

- (3) If the RW is of an immediate concern and the RP is unable or unwilling to perform the RW, the Department will provide the traffic control as necessary based on the severity of the deficiency. The DWC will coordinate with the RCO and the DSMO to develop a work plan to accomplish the RW. The Department shall document all cost associated with the RW with intent to recover from the RP.

#### **8.12.11.5 Performing and accepting remedial work**

- (1) Once the RP has an approved Work Plan and if applicable, a Traffic Control Plan, work may begin. The RCO in conjunction with the DSMO will inspect and document the RW for compliance with the contract specifications.
- (2) The RCO and DSMO will perform a joint final acceptance inspection and any unacceptable work will be corrected by the RP before final acceptance is issued.

#### **8.12.12 PERFORMANCE TURF (Spec. Section 570)**

##### **8.12.12.1 Performance Monitoring**

This section Performance Turf procedure defines the administrative process for monitoring and tracking the establishment of a growing, healthy turf in accordance with the specification. The project personnel responsible for the administration of the contract shall be responsible for monitoring the turf installation and establishment at intervals established in the specification. The project personnel shall document all inspection results into the CIM tracking system.

If the turf areas designated in the contract have not met the requirements as set forth in the contract for establishment at the time that all other work is completed, the RP shall continuously maintain all turf areas until the requirements for established turf set forth in Section 570-4 of the specifications are met. Project personnel shall notify and coordinate with the DWC that the establishment period for a contract will continue after Final Acceptance of a contract. Upon notification by the contractor the DWC will schedule and coordinate inspections required by the contract.

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### **8.12.13 LANDSCAPE INSTALLATION (Spec. Section 580)**

#### **8.12.13.1 Performance Monitoring**

The Landscape Installation section defines the administrative process for monitoring and tracking the establishment of landscape installations during the establishment period in accordance with the specification. The contract specifications defines the duration and acceptance criteria for the establishment period. The project personnel responsible for the administration of the contract shall be responsible for monitoring the installation and establishment of the landscaping during construction. Project personnel shall document all inspection results into the CIM tracking system. Project personnel shall notify the DWC upon final acceptance of a project containing landscape installation and the Warranty/Maintenance Bond provisions. The Warranty/Maintenance Bond must be received prior to or at Final acceptance. All documentation required by the specifications shall be scanned into the CIM tracking system.

In accordance with the specifications, the contractor is responsible providing all materials and labor required for proper maintenance, survival and condition of all plants during the establishment period. The Contractors Quality Control Representative shall oversee the entire establishment period. The Quality Control Representative shall provide certified quarterly inspection reports in accordance with the specifications to ensure that the landscape installation meets the requirements of the contract. The DWC shall coordinate with the District Landscape Architect for review and approval of the quarterly reports. All documentation from the inspections shall be input into the CIM tracking system.

#### **8.12.13.2 Warranty/Maintenance Requirement**

The contractor shall provide a Warranty/Maintenance Bond (Attachment ??) to the Department in the amount of the total sums bid for all landscape items as evidence of warranty during the plant establishment period. The term of the bond shall be for the duration of the establishment period (one year) unless agreed to otherwise in writing by the Department.

The CIM tracking system will automatically schedule interim inspections at the pre-determined durations (quarterly). The DWC will coordinate and review the interim inspections of all landscape items for verification to ensure quality of the plants and correctness of the certified landscape inspection reports.

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The Department will provide written notification at the conclusion of the Warranty/Maintenance period to release the Contractor from further warranty work and maintenance responsibilities, provided all landscaping items are in accordance the contract specifications.

Project personnel shall notify and coordinate with the DWC that the establishment period for the landscape installation will continue for one year after Final Acceptance of the contract.

Should any administrative actions become necessary under the Warranty/Maintenance Bond provisions of the contract, the DWC shall contact the Statewide Warranty Coordinator in the SCO prior to notification of the RP.

### **8.12.14 VALUE ADDED SIGNAL INSTALLATION (Spec. Section 645) DESIGN BUILD PROJECTS ONLY**

#### **8.12.14.1 Performance Monitoring**

The Value Added Signal Installation procedure defines the administrative process for monitoring and tracking the performance of signal installations in accordance with the specification. The specifications define the performance and acceptance criteria for the VAF.

Components covered under the warranty period are defined in the Value Added Signal Installation specification.

The Contractor (or the designated Responsible Party) shall assume responsibility for all RW or reimbursing the costs to the Department or the Maintaining Agency (as appropriate) for restoring the component(s) of the Value Added Signal Installation specified, to the fully functional state it existed at final acceptance of the project for duration of the Warranty period. The DWC will coordinate all RW activities with the RP and the Maintaining Agency.

**Note:** The Value Added Signal Installation specifications provide exceptions to the warranty period for specific components of the signal installation. Additionally, specific components of the Value Added Signal Installation are covered by a manufacturer guarantee which is transferable to the Department. The Contractors responsibility for warranty and remedial work for those designated components with time periods less than the three (3) warranty period will terminate at the end of the time period stated in the specification. The contractor will remain responsible for the materials and workmanship of the overall installation of the signal system.

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Project personnel responsible for the administration of the project shall notify (by email correspondence) the DWC upon final acceptance of a project containing the Value Added Signal Installation provisions. All documentation required by the specifications shall be scanned into the CIM tracking system.

The DWC shall be responsible for the administration of the Value Added feature after final acceptance of the contract. The DWC will coordinate with the Maintaining Agency and the Responsible Party for all requests for remedial repairs or reimbursements necessary under the warranty provisions of the contract.

## **8.12.15 VALUE ADDED HIGHWAY LIGHTING SYSTEM (Spec. Section 725) DESIGN BUILD PROJECTS ONLY**

### **8.12.15.1 Performance Monitoring**

The Value Added Highway Lighting System procedure defines the administrative process for monitoring and tracking the performance of highway lighting installations in accordance with the specification. The performance and acceptance criteria for the VAF are defined by the contract specifications. Components covered under the warranty period are defined in the Value Added Highway Lighting System specification.

Note: The Value Added Highway Lighting System specifications provide exceptions to the warranty period for specific components of the lighting system. Additionally, specific components of the Value Added Lighting System are covered by a manufacturer guarantee which is transferable to the Department. The Contractor's responsibility for warranty and remedial work for those designated components with time periods less than the three (3) warranty period will terminate at the end of the time period stated in the specification. The contractor will remain responsible for the materials and workmanship of the overall installation of the lighting system.

Project personnel responsible for the administration of the project shall notify (by email correspondence) the DWC upon final acceptance of a project containing the Value Added Signal Installation provisions. All documentation required by the specifications shall be scanned into the CIM tracking system.

The DWC shall be responsible for the administration of the Value Added feature after final acceptance of the contract. The DWC will coordinate with the Maintaining Agency and the Responsible Party for all request for remedial repairs necessary under the warranty provisions of the contract. The DWC will be responsible for coordinating with the Maintaining Agency for participation in the DRB process (if required).

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### **8.12.16 TRAFFIC STRIPES AND MARKINGS**

This section defines the administrative process for monitoring and tracking the performance of traffic stripes and marking installations in accordance with the contract specifications. The specifications provides for a 180 day Observation Period after Final Acceptance of the contract. The following sections contain this requirement: Sections 701, 702 709, 711 and 713. The DWC shall coordinate the Inspection with the appropriate RCO or OCO. The results of the inspection shall be documented in CIM.

### **8.12.17 OTHER WARRANTY ITEMS**

This section is provided to allow warranty tracking for items of the work, which by agreement of the contracting parties, will be warranted for a specific period of time. The documentation which formalizes the agreement will be provided by the State Construction Office or District Construction Office. All documentation pertaining to the warranty shall be scanned into the CIM Tracking System. The DWC will be responsible for the administration of the warranty during the warranty period.