



Pavement Management GroupSM

PAVEMENT PROGRAM

StructureTec civil engineers have experience in conducting pavement distress surveys, auditing existing pavement inventory for accuracy and consistency, and developing technical plans, specifications and budgets for pavement rehabilitation and replacement projects.

As part of StructureTec's Asset Management Programs, we provide condition assessments for pavement on parking lots. Following is a description of how the program works:

Pavement Evaluation Process

Parking lots are surveyed and evaluated to assess their conditions and identify defects. This process facilitates the development of a Long Range Pavement Program which includes a budget forecast and planning schedule.

Pavement Evaluation Scope:

1. REVIEW OF EXISTING PAVEMENT DATA: Perform a review of plans (drawings), specifications and other historical information available relative to the pavement, adjacent walks and curbing.
2. VISUAL SURVEY to assess observable conditions of the pavement, adjacent walks and curbing in an effort to incorporate proper overall maintenance procedures. This will help identify pavement distresses to understand the causes of



Improper drainage causing ponding water



Restored corporate parking lot

failure and determine the appropriate remediation procedures. Collection of topography and geotechnical information is also performed as necessary to assess causes of failure and remedial action.

3. FIELD MEASURE all areas to identify and locate significant pavement features on detailed drawings and specifications.

4. INVENTORY DATABASE delineates construction types, and a Pavement Condition Index (PCI) will be developed to establish priorities.

5. DRAWINGS will show deteriorated and distressed areas.

6. CONDITION PHOTOGRAPHS depicting visible restoration problems are provided for management personnel who are unable to make a personal inspection.

7. REPORTS describe observations, findings, and recommendations for corrective action (repair, replacement).

8. BUDGET ESTIMATE PREPARATION based on the recommendations given. The estimates will be set up in a long-term schedule based on the Owner's strategic plan.

9. REVIEW TRAFFIC VOLUMES anticipated is an important consideration in the design of the pavement structural cross sections.

10. COMPUTATION OF TRAFFIC VOLUME, EQUIVALENT TO SINGLE AXLE LOADS involve an estimate of total numbers of vehicles during the design life of every pavement cross-section. Proper design can impact cost of ownership dramatically. ■



PAVEMENT CONDITION INDEX (PCI) RATING SYSTEM

Parking lot pavement will be evaluated and a Pavement Conditions Index (PCI) determined for existing pavement. The PCI index is to provide information not only on the condition, but on the recommendations for maintenance and/or replacement of the pavement.

The system is based on a 0 to 100 scale, with 0 indicating pavement failure and 100 indicating relatively new pavement with no major distress.

All parking lot pavement, adjacent walks and curbing will be evaluated under the above criteria.

Parking lots will be broken up into reasonable areas that serve different purposes, such as parking and delivery/truck routes.

BENEFITS

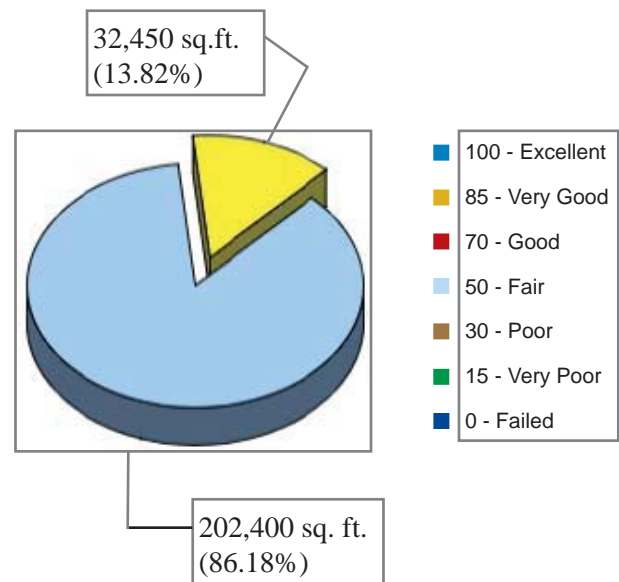
Predictive pavement maintenance

Develops a permanent record of data

Forecasts pavement maintenance budgets

Locates problems in their earlier stages in order to solve them before major capital expenditures are required

Provides an accurate foundation for future pavement asset management



This chart describes the PCI system in detail, and provides a description of all the rating levels from 0 to 100 and what can be expected for each rating level.

Total Building Envelope Management SolutionSM

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