

4. Asphalt Plant



4.1. Introduction

Asphalt plants heat and dry the aggregate and mix it with the appropriate amount of asphalt cement, in accordance with the project mix design. There are two main types of asphalt plants: batch plants and dryer drum plants. These are briefly described below.

Standard Highway Specification 4.01-3.03 requires that the asphalt plant be calibrated as specified in AASHTO M-156. Airport Specification 401-4.2 requires the asphalt plant to conform to ASTM D 995.

The Asphalt Institute's Manuals MS-3 *Asphalt Plant Manual* and MS-22 *Principles of Construction of Hot-Mix Asphalt Pavements* contain much more information on asphalt plants.

Batch Plants

Batch plants make asphalt concrete one batch at a time. This is done by placing measured amounts of

different-sized aggregate and asphalt cement in a "pugnall," where they are mixed. The pugnall is then emptied and the process repeated. The aggregate and asphalt cement are heated before they are placed in the pugnall. The process is shown in the diagram on the page 4-4.

Aggregate at the plant starts at the *cold bins* (see Figure 4-1). There are usually three or four bins for different sizes of aggregate. The aggregate empties through the bottom of the bins through feeders (most operate with a small belt or a vibrator). The feeders are equipped with adjustable *cold feed gates*. Aggregate in different bins is released at different rates to form the proportional combination of material for the mix design. The correct proportions are obtained by calibrating the gates and adjusting the variable speed feeder belt. Aggregate from all the feeders is deposited on a main *cold feed conveyor*.

The *cold elevator* carries the proportioned aggregate from the conveyor to the *dryer*, which heats and

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Table of Contents Principles Of Construction Of Hot Mix Asphalt Pavements Ms

1. Understanding the eBook Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - The Rise of Digital Reading Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Advantages of eBooks Over Traditional Books
2. Identifying Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - User-Friendly Interface
4. Exploring eBook Recommendations from Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Personalized Recommendations
 - Principles Of Construction Of Hot Mix Asphalt Pavements Ms User Reviews and Ratings
 - Principles Of Construction Of Hot Mix Asphalt Pavements Ms and Bestseller Lists
5. Accessing Principles Of Construction Of Hot Mix Asphalt Pavements Ms Free and Paid eBooks
 - Principles Of Construction Of Hot Mix Asphalt Pavements Ms Public Domain eBooks
 - Principles Of Construction Of Hot Mix Asphalt Pavements Ms eBook Subscription Services
 - Principles Of Construction Of Hot Mix Asphalt Pavements Ms Budget-Friendly Options

6. Navigating Principles Of Construction Of Hot Mix Asphalt Pavements Ms eBook Formats
 - ePub, PDF, MOBI, and More
 - Principles Of Construction Of Hot Mix Asphalt Pavements Ms Compatibility with Devices
 - Principles Of Construction Of Hot Mix Asphalt Pavements Ms Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Highlighting and Note-Taking Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Interactive Elements Principles Of Construction Of Hot Mix Asphalt Pavements Ms
8. Staying Engaged with Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Principles Of Construction Of Hot Mix Asphalt Pavements Ms
9. Balancing eBooks and Physical Books Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Principles Of Construction Of Hot Mix Asphalt Pavements Ms
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Setting Reading Goals Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Fact-Checking eBook Content of Principles Of Construction Of Hot Mix Asphalt Pavements Ms
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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