

TINJAUAN PERENCANAAN TEBAL PERKERASAN LENTUR DAN KAKU DENGAN METODE MANUAL DESAIN PERKERASAN (MDP) 2017

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INFORMASI ARTIKEL

Kata Kunci:

DCP, Daya dukung tanah, Pondasi

Keywords:

DCP, Soil bearing capacity, Foundation

ABSTRAK

Metode yang digunakan dalam penelitian ini adalah metode MDP 2017 dengan melakukan penelitian lapangan menggunakan alat DCP untuk mengetahui daya dukung tanah (CBR), data survey lalu lintas, dan data geometri jalan. Hasil perhitungan nilai ESA5 sebesar 0,59E+06 didapatkan tebal lapis perkerasan HRS WC 5 cm, lapis pondasi bawah kelas A 15 cm, lapis pondasi bawah kelas B atau kerikil alami 15 cm, untuk alternatif AC WC 4cm, AC BC 6 cm, LFA Kelas A 40 cm, untuk nilai kelompok sumbu sebesar 0,59E+06 didapatkan tebal lapis perkerasan, tebal pelat beton 26,5 cm, lapis pondasi bawah LMC 10 cm, dan lapis drainase 15 cm.

ABSTRACT

The method used in this study is the MDP 2017 method by conducting field research using the DCP tool to determine soil carrying capacity (CBR), traffic survey data, and road geometry data.

The result of the calculation of the ESA5 value of 0.59E + 06 obtained the thickness of the HRS WC pavement layer 5 cm, class A foundation layer 15 cm, class B foundation layer or natural gravel 15 cm, for alternative AC WC 4cm, AC BC 6 cm, LFA Class A 40 cm, for the axis group value of 0.59E+06, the thickness of the pavement layer, the thickness of the concrete plate is 26.5 cm, the LMC foundation layer is 10 cm, and the drainage layer is 15 cm.

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1. Pendahuluan

Dalam rangka meningkatkan dan mengembangkan kinerja jalan untuk pelaksanaan kegiatan pekerjaan konstruksi jalan untuk menjamin kualitas perkerasan jalan, perlu dilakukan pendekatan perencanaan dan perancangan perkerasan jalan. Manual desain perkerasan 2017 ini merupakan revisi dari manual desain perkerasan 2013 yang mencakup perubahan struktur presentasi untuk memudahkan pemahaman pengguna dan penambahan serta peningkatan konten manual. Manual Desain Perkerasan Jalan 2017 ini untuk mengakomodasi tantangan dan hambatan dalam kinerja aset jalan di Indonesia.

Beberapa jurnal tentang perhitungan ketebalan perkerasan jalan berdasarkan metode pavement design manual (MDP) 2013, dan analisis ketebalan perkerasan lentur jalan baru menggunakan manual desain perkerasan jalan (MDP) 2013, dan juga tentang penanganan kerusakan perkerasan jalan menggunakan manual desain perkerasan jalan MDP 2017. Ruas jalan yang akan ditinjau tidak menggunakan perkerasan lentur sehingga kami ingin menghitung seberapa tebal perkerasan lentur tersebut untuk perencanaan ketebalan perkerasan lentur terdapat beberapa jurnal seperti metode analisis komponen berdasarkan manual perencanaan dan No. SNI 1732-1989-f, dan metode pd t -01-2002-b.

Versi awal dari Manual Desain Perkerasan (MDP 2013) dikembangkan dengan bantuan Pemerintah Australia (AusAID), sebagai bagian dari kegiatan India 2009/01. Selanjutnya, versi bahasa Indonesia dikembangkan melalui pertanyaan ekstensif oleh Direktorat Jenderal Bina Marga dan para ahli. Sejumlah bab

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Table of Contents Judul Tinjauan Perkerasan Kaku

1. Understanding the eBook Judul Tinjauan Perkerasan Kaku
 - The Rise of Digital Reading Judul Tinjauan Perkerasan Kaku
 - Advantages of eBooks Over Traditional Books
2. Identifying Judul Tinjauan Perkerasan Kaku
 - 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 Judul Tinjauan Perkerasan Kaku
 - User-Friendly Interface
4. Exploring eBook Recommendations from Judul Tinjauan Perkerasan Kaku
 - Personalized Recommendations
 - Judul Tinjauan Perkerasan Kaku User Reviews and Ratings
 - Judul Tinjauan Perkerasan Kaku and Bestseller Lists

5. Accessing Judul Tinjauan Perkerasan Kaku Free and Paid eBooks
 - Judul Tinjauan Perkerasan Kaku Public Domain eBooks
 - Judul Tinjauan Perkerasan Kaku eBook Subscription Services
 - Judul Tinjauan Perkerasan Kaku Budget-Friendly Options
6. Navigating Judul Tinjauan Perkerasan Kaku eBook Formats
 - ePub, PDF, MOBI, and More
 - Judul Tinjauan Perkerasan Kaku Compatibility with Devices
 - Judul Tinjauan Perkerasan Kaku Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Judul Tinjauan Perkerasan Kaku
 - Highlighting and Note-Taking Judul Tinjauan Perkerasan Kaku
 - Interactive Elements Judul Tinjauan Perkerasan Kaku
8. Staying Engaged with Judul Tinjauan Perkerasan Kaku
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Judul Tinjauan Perkerasan Kaku
9. Balancing eBooks and Physical Books Judul Tinjauan Perkerasan Kaku
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Judul Tinjauan Perkerasan Kaku
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Judul Tinjauan Perkerasan Kaku
 - Setting Reading Goals Judul Tinjauan Perkerasan Kaku
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Judul Tinjauan Perkerasan Kaku
 - Fact-Checking eBook Content of Judul Tinjauan Perkerasan Kaku
 - 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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