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1 0 introduction this manual provides the procedures used by the arizona department of transportation for the design of new pavements and rehabilitation of existing pavements both rigid and flexible it provides a guide for determining new pavement structures similar to the ones shown in figure 1 1 a comprehensive guide for designing flexible pavements in florida including design periods friction courses structural numbers layer thickness and special considerations the manual covers new construction reconstruction and rehabilitation projects with tables charts and examples pavement design manual 3 26 24 revision 4 1 atlanta ga 30308 this document was developed as part of the continuing effort to provide guidance within the georgia department of transportation in fulfilling its mission to provide a safe efficient and sustainable transportation system through dedicated teamwork and responsible leadership pavement design manual the pavement design manual pdm defines pavement design and rehabilitation design variables most appropriate for the state of ohio published january 19 2024 many manuals policies guides standards etc have been published regarding pavement design and rehabilitation a guide for pavement design selection and documentation based on mn dot experience and current practice it covers investigation subsurface hma pcc ramps shoulders and construction alternatives pavement manual approved pavement design methods section 6 approved pavement design methods 6 1 introduction use one of the following analytical methods for designing pavements fps 21 for flexible pavements modified texas triaxial design method for flexible pavements txcrpc me for continuously reinforced rigid pavements to design a pavement by the aashto method a number of design parameters must be determined or assumed this section will explain the parameters required to design the pavement thickness of both concrete and hot mix asphalt roadways the same parameters can be used for input data in computer programs on pavement determinations the american association of state highway and transportation officials has released a new publication mechanistic empirical pavement design guide a manual of practice 3rd edition this revised manual provides an overview of the methodology termed mechanistic empirical or m e pavement design design analysis linking pavement design to transportation asset management through pavement management life cycle cost analysis mechanistic empirical design guide surface characteristics smoothness pavement preservation pavement policy mechanistic empirical pavement design guide a manual of practice 3rd edition with 2021 supplement table of contents introduction index table of contents committee on materials and pavement technical subcommittee 5d on pavement design iii effective january 30 2006 revised january 2019 the principal users of this manual are the district pavement design engineers and their agents i e consultants additional users include other department offices such as construction maintenance traffic operations etc and city and county offices manuals 2021 cdot m e pavement design manual the purpose of this pavement design manual is to provide cdot and consulting designers with uniform and detailed procedures for designing pavements on cdot highway projects this 2021 manual is to be used after july 1 2020 until june 30 2023 the cpdm provides policy and guidance for pavement designs for nys dot projects it covers evaluation treatment materials shoulders drainage and preventive maintenance of pavements rigid pavement design 1 overview 1 1 rigid pavement types 1 2 selection of rigid pavement type 1 3 performance period 1 4 tied concrete shoulders 2 approved design method 2 1 introduction 2 2 txcrpc me design program for crcp 2 3 aashto rigid pavement design procedure for cpdc 3 rigid pavement design section 11 2 pavement design variables 11 2 1 required design inputs 11 2 2 design reliability and risk 11 2 3 engineering economic evaluation 11 2 4 preventive maintenance 11 2 5 roadway surfacing type selection section 11 3 flexible pavement design 11 3 1 field reconnaissance and investigation 11 3 2 design standards pavement design construction and management a digital handbook this web based publication is meant to be a one

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to design a pavement by the aashto method a number of design parameters must be determined or assumed this section will explain the parameters required to design the pavement thickness of both concrete and hot mix asphalt roadways the same parameters can be used for input data in computer programs on pavement determinations

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the cpdm provides policy and guidance for pavement designs for nys dot projects it covers evaluation treatment materials shoulders drainage and preventive maintenance of pavements

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