INNOVATIVE DESIGN STRATEGY INCORPORATING TEMPERATURE EFFECT ON THE PENNSYLVANIAN PAVEMENTS

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ABSTRACT

The effect of problematic soils and temperature on the asphalt concrete layers suitable for Pennsylvanian conditions on the design of pavements as applied to the state of the art design procedure have not been studied. Temperature has exponential effect on the asphalt stiffness. Asphalt stiffness has also exponential effect on the layer thickness. This study focuses on these important effects for the specific range of materials and environmental conditions that prevail in the state.

The objective of this research is to develop an innovative design strategy capable of handling the temperature variations in the asphalt concrete layers. This strategy handles weak soils specific to Pennsylvania using a wide variety of variables consisting of standard deviations, traffic, MR, Delta PSI, surface course, base course and subbase materials.

For all designs, the surface course and the base course contain minimum thicknesses as a function of traffic. The efficacy of expansive soil-limestone as subbase material was evaluated by designing and estimating a flexible pavement thicknesses. The modified strength coefficients were used for designing the pavement sections in Pennsylvania. Based on this research, it can be concluded that the subbase thickness has (i) a linear relationship with the structural number, and (ii) a nonlinear relationship with the change in serviceability index and the resilient modulus. In this innovative design strategy, the effect of temperature is built into the structural number. This is achieved by appropriately modifying the strength coefficient for the asphalt concrete layer.

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DEDICATION

To my family, for keeping me focused on the prize, and for giving me the opportunity to better myself. To them I will be forever grateful.

To my father,

That man was a success – who has lived well, laughed often and loved much; who has gained the respect of intelligent men and the love of wife and children; who has filled his niche and accomplished his task; who has never lacked appreciation of earth's beauty or failed to express it; who looked for the best in others and gave the best he had; the loss of my father will always sting. But now, everything that I do is in honor of him and celebrates his life.

In Memory of My Father: Mousa Al-Ayaydah, July 1950 –December 2018

To all, Hope I can give you a better life

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In the beginning I thank God and praise Him in a manner that befits the (infinite) number of His creation, and as it pleases Him, for supporting me in the completion of this work.

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

CHAPTER 1

INTRODUCTION

1.1 General

Expansive soil is one of the difficult soils faced by civil engineers during construction of highways. It expands significantly with increase in its moisture content and shrinks when the moisture content is decreased. Severe damages occur to pavements and roads constructed with expansive soil because of this type of behavior (Sakai 1978). Excessive permanent deformation is one of the worst problems due expansive soils. This in turn causes hydroplaning leading to severe accidents involving causalities and economic losses (Horne, 1963).

The state of Pennsylvania has a diverse geology. As a result, a wide variety of soils are present across the state. These include soils that have low bearing capacities such as soft clays as well as soils with high bearing capacity such as stiff clays. In addition, the state also has expansive soils that are capable of volumetric strains due to moisture fluctuations.

Thorough understanding of the soils is key to designing an appropriate pavement section. Depending on the strength of in-situ soils and project requirements, the properties of the soils may need to be improved using ground improvement techniques such as mechanical compaction, chemical stabilization, geogrid reinforcement, and moisture control barriers (Zornberg, 2008).

1.2 Need for the present study

The effect of problematic soils and temperature on the asphalt concrete layers suitable for Pennsylvanian conditions on the design of pavements have not been studied. Temperature has exponential effect on the asphalt stiffness. Asphalt stiffness has also exponential effect on the layer thickness. This study focuses on these important effects for the specific range of materials and environmental conditions that prevail in the state.

1.3 Objectives

The objective of this research is to develop an innovative design methodology capable of handling the temperature variations coupled with additive working in tandem with the weak soils specific to Pennsylvania (Hamza and Brooks 2018).

More specifically, the following are the objectives:

1) To evaluate the efficacy of an expansive soil stabilized with optimum percentage of limestone dust.
2) To determine the effect of temperature on the asphalt concrete stiffness.
3) To develop an innovative design procedure and design 9600 pavement structures covering a wide variety of variables consisting of 4 standard deviations, 10 traffic values, 5 MR values, 6 Delta PSI values, 2 surface course materials, 2 base course materials and 2 subbase materials.

4) To lift the limitation of the state of the art design procedure, AASHTO by developing an innovative design strategy
5) Compare the innovative design results with those of AASHTO results and critique the differences.

The designs capable of handling the temperature variations coupled with additive working to improve the weak soils performance in Pennsylvania and the critique on the results are new contributions from this research.

CHAPTER 2

LITERATURE REVIEW

2.1 General

Distress caused to the highway structure when constructed on expansive soils is significant and is well recognized by the research community (Brooks and Udoeyo, 2011) (Chen, 1988) (Pedarla, 2011). Stabilization of these problematic soils by employing a suitable additive is one of the ideal techniques of dealing with such soils. Many additives have been evolved over the past few decades, and their usefulness and efficiency have been well demonstrated by the previous researchers (Armani, 1972).

Among several additives, lime is the most extensively being used additive, and expansive soil stabilization with this additive is the common traditional practice being followed (Thompson, 1969). Lime is a product of decomposition of limestone at elevated temperatures. Many researchers have used lime as a stabilizer with appreciable amounts of success (Yoder & Witczak, 1975). Lime stabilization is a widely used means of chemically transforming unstable soils into structurally sound construction materials. Lime stabilization enhances engineering properties in soils, including improved strength; improved resistance to fracture, fatigue, and permanent deformation and also improved resilient. AI-Azzo (2009) had studied the stabilizing effect of crushed limestone on engineering properties of expansive clayey. Different percentages of crushed limestone dusts added were 2, 4, 6, 8 and 10%. It was found that there was reduction in the plasticity of the clay and significant decrease in expansion (Little, 2000).

The structural capacities of flexible pavements are greatly influenced by the stiffness of the asphalt concrete layer. The asphalt layer stiffness is a function of temperature. As the temperature of the asphalt increases, its stiffness decreases, leaving it less able to withstand wheel loads. A decrease in asphalt concrete stiffness results in higher stresses. For the pavement design engineer, temperature-induced fluctuations in structural capacity over time mean that pavement damage does not occur uniformly throughout the design life of the pavement (Inge, 1995). To design more cost-effective flexible pavements, these temperature effects must be considered in the design process (Tayebali, 1994). The latest AASHTO design procedure does not account for this variable. This is one of the highlights of this study.

Bituminous layers have properties which are dependent on time of loading and temperature. Solutions have been given for cases where pavement materials possess simple viscoelastic behavior. (Freudenthal & Lorsh, 1957, Monismith & Secor, 1963).

2.2 Laboratory Tests

2.2.1 Creep Tests

For the design and evaluation of the quality of asphalt concrete mixes it is important, among other considerations, to have a quick and simple method with which, on the basis of certain criteria the resistance to permanent deformation under field conditions can be predicted.

At present several European and Commonwealth countries use the Marshall test as a criterion for judging the mechanical properties of asphalt mixes. The values obtained in the Marshall test cannot be directly used in design calculations for pavements; they are of practical value based on the extensive experience obtained with the Marshall test.

Existence of the following conditions confirmed the worldwide concern that the use of Marshall Test procedure does not provide sufficient safety factor in terms of permanent deformation (Viljoen, 1981):

1. Asphalt temperatures in excess of 105°F.
2. High frequency of heavy traffic
3. Slow moving traffic on steep gradients
4. Slippage of overlay.

For the past thirty years, the possibility of utilizing the creep test as a tool for the design of asphalt pavements has been studied. A number of investigators have proposed methods for conducting the creep test on asphalt mixtures, including the Shell researchers (Hill 1973 and 1974, Van de loo 1978), Study Center for Road Construction of the Netherlands (Bolk 1981), and the NITRR of South Africa (Viljoen 1981), Shell and Monismith, (1987).

Mixture stiffness can be measured in compression by creep test, a sinusoidal load test, or by a repeated load test. Alternatively, this property can be defined by repeated loading in flexure or by diametral loading.

The creep test is useful in defining mixture response at long loading times comparatively simply; if response at short loading times is desired, some form of electronic measurement of deformation is required. With such instrumentation, the creep test is capable of providing a measure of stiffness over a very wide time range. Since the specimens are loaded statically without lateral confinement, the creep test does not accurately represent the real-life pavement conditions.

2.2.2 Fatigue Tests

Extensive studies of laboratory fatigue behavior of asphalt concrete mixtures have been carried out in Europe by the Royal Dutch investigators and in the United States by Monismith et al at the University of California, Berkeley. Shell investigators include Nijboer (1954 and 1959), Heukelom and Klomp (1964), Saal and Pell (1960), and associated investigations performed by Pell et al (1975). Monismith et al (1987) have conducted numerous investigations from 1958 to date. Other investigators who have conducted fatigue tests on asphalt concrete include Epps (1986), Papazian and Baker (1959), Finn (1984), et al. Pell conducted several tests to determine the influence of mix variables like test temperature, aggregate grading, asphalt type, asphalt content, etc. on the fatigue life of asphalt mixtures.

Mode of loading is useful to describe how stress and strain levels are permitted to vary during fatigue testing. In controlled- stress tests, the stress level is maintained constant throughout the service life. Controlled-stain tests maintain the strain level at constant level throughout the fatigue life.

For thick asphalt pavements (more than 6 inches thick), the controlled stress approach and for thin asphalt pavements (less than 3 inches. thick) the controlled strain approach is recommended (Tangela et al. 1990). For asphalt pavements of intermediate thickness, the controlled stress mode is recommended because of its conservative estimate of fatigue life. Mode of loading (controlled stress or controlled strain), load conditions together with environmental variables affect the results of fatigue tests. A brief review of the types of equipment used for fatigue testing will allow grouping of the equipment and thus conclusions may be drawn as to the effects of environmental and mixture variables on the fatigue properties of asphalt pavements for similar types of equipment.

The Shell investigators have used rotating cantilever systems and simple flexural systems similar to those used by Monismith. The point-loaded rotating cantilever system (Nijboer, 1954 and 59 and Heukelom 1964), the constant bending moment rotating cantilever system (Pell 1967) and controlled torsional strain system represent the canti-levered systems used by Shell. Three and four-point bending machines have also been used in some of the Shell investigations.

Papazian and Baker (1959) and Kirk (1967) have used equipment which test beams in flexure while Jimenez and Gallaway (1963) have used circular slab specimens supported on a hydraulic pressured rubber membrane to flex their specimens.

The loading conditions and mode of loading must be considered when comparing results of fatigue studies. Although investigations have been conducted under compound loading, e.g. studies by Deacon (1965), Deacon and Monismith (1969), Saal and Pell (1960), and Pell (1963), the majority of their tests have been conducted using simple loading techniques controlling the stress at a constant magnitude.

2.2.2.1 Fatigue Resistance and its Prediction

Fatigue resistance is the ability of a mix to bend repeatedly without fracture. Response to repetitive loading can be defined by a relationship of the form:

$$N_f = A\,[1/E_t]^{b} * 1/S_{mix}]^{c} \quad \text{…………………………Equ. 2.1}$$

Where:

N_f =number failure of tensile strain, f, applications to failure

S = mixture stiffness

A, b, c = experimentally determined coefficients.

For mixes with continuously (well or dense)-graded aggregates, the two primary factors affecting fatigue response are asphalt content and degree of compaction, e.g., as measured by air void content.

For thick asphalt-bound layers, a mix of high stiffness should be utilized (Monismith, 1969), this being obtained with a more viscous asphalt and a dense gradation of aggregate. For. pavements with thin asphalt-bound layers, the mixture should be made as flexible as possible by using lower viscosity asphalts and more open (less fines) or gap-graded aggregates.

Quantitatively, the effect of asphalt content and void content on fatigue performance can be determined using a correction factor proportional as follows:

$$V_B / V_B + V_V \text{ ……………………………………….Equ. 2.2}$$

Where: V_B = asphalt volume, percent

V_v = air void volume, percent

Since fatigue response is proportional to the tensile strain repeatedly applied, and since the tensile strain in the asphalt layer will vary with pavement temperature and load magnitude, it is necessary that cumulative damage considerations be utilized. A reasonable cumulative damage hypothesis for asphalt mixes is the linear summation of cycle ratios (Deacon 1969):

$$\sum_{i=1}^{n} \frac{n_i}{N_i} = 1 \text{ ……………………………………….Equ. 2.3}$$

Where:

n_i = number of applications at strain level i,

N_i= number of applications to failure in simple loading at strain level i.

Fatigue resistance, as defined by the above equation can be predicted by repeated flexure (Pell 1973, Bazin & Saunier 1967, Monismith 1971), direct tension, or by diametral

(Kennedy 1977) tests. Diametral tests will provide a conservative estimate of fatigue life when compared with the results of controlled-stress flexure tests which are in turn more conservative than controlled-strain flexure tests.

Determination of fatigue response is a time consuming and therefore relatively costly process (requiring a minimum of 42 specimens). Accordingly, this type of testing is not recommended on a routine basis (Monismith 1985).

Since the specimens are loaded without lateral confinement, the laboratory fatigue tests do not accurately represent the real-life pavement conditions.

2.2. 3 Tension Tests

Tests on pure asphalts both in thin films and bulk, and asphalt aggregate mixtures have shown that both the stress and the strain at failure are dependent upon time-of-loading and temperature (Chapman 1965). Many researchers have suggested that an optimum asphalt film thickness exists for maximum tensile strength. Depending upon the properties of the asphalt investigated, maximum tensile strengths of the order of 200 psi were obtained corresponding to film thicknesses in the range 20-50 x 10^{-4} cm.

Eriksson (1954), has reported data obtained from tests that were performed on large sized asphalt samples. This data suggests that bituminous binder have maximum tensile strengths of the same order of magnitude. Van der Poel, Road Research Laboratory (1962) and Heukelom (1966) suggest that it is possible to obtain comparison of the susceptibility of bitumen materials to fracture by measurement of their stiffnesses.

For asphalt mixtures, Van der Poel (1968), and Eriksson (1954), have presented data illustrating the dependence of tensile strength on mixture composition, rate of loading, and temperature. These studies show that at low temperatures tensile strength of asphalt concrete is essentially constant and may even decrease slightly with decreasing temperature.

As the temperature is increased, strength is decreased thus suggesting a peak value of strength whose value is dependent upon the rate of loading. Tons and Krokosky (1963) have also shown that the tensile strength depends upon the asphalt content and type of mineral filler. Eriksson (1954) has presented data for mixtures which illustrate dependence of both tensile stress and elongation at break on filler- bitumen ratio. This data suggests that maximum values of tensile strength and strain are obtained at optimum filler-bitumen ratios. Maximum values of strength and strain may, however, occur at different filler-bitumen values.

Heukelom and Klomp (1962) and Monismith and Secor (1965) have shown that strain at break is also a function of time of loading, temperature, mixture composition and type of asphalt, with the lowest values of the order of 1,000 x 10^{-6} inches per inch at short loading times and cold temperatures. Heukelom (1964) has further suggested that a relationship exists between the tensile strength of an asphalt mix and the tensile strength of the asphalt used therein. Epps conducted several direct tension tests with an idea to predict the fatigue behavior of asphalt concrete mixtures. Since the specimens are loaded without confinement, the laboratory direct tension tests do not accurately represent the real life pavement conditions.

2.3 Full Scale Road Tests

2.3.1 Experimental Pavements in the United States

Existing practices for pavement thickness design and material selection are mainly based on the findings of many full-scale tests conducted the United States which were mostly tests on in-service road sections. However, since the 1950s, the volume and mass of truck traffic has continued to increase rapidly. This has led to demand for more investment in highways. The design procedures of earlier years were typically derived from the in-service experimental pavements such as the WASHO Road test in 1952 and the AASHO Road Test that was conducted between 1958-1960.

2.3.2 The WASHO Road Test

The WASHO Road Test is a study of the behavior of certain flexible pavements under the repeated application of a number' of selected heavy axle loads. For this test, special pavement sections 'were built in the summer of 1952, and controlled test traffic was begun in November of that year. The performance of the pavements was judged mainly in terms of pavement deformation (rutting). The thinnest sections (those without any subbase) deformed rapidly under all axle loads. Increasing the thickness of the subbase in all cases reduced the level of permanent deformation, although the influence of subbase thickness was less under the 100 mm surfacing than under the 500 mm surfacing (WASHO Road Test, 1955).

The WASHO Road Test is sponsored by the Western Association of State Highway Officials. Administration and direction of the project were delegated by that organization to the Highway Research Board, which operates the test with the counsel of an advisory committee appointed by the Board and made up primarily of representatives of the cooperating agencies. This road test, is the second of the full-scale tests of pavement behavior under controlled heavy truck traffic to be administered by the Highway Research Board.

2.3.3 The AASHO Road Test

The Construction of the test facility for the AASHO test began in August 1956, and the test traffic was inaugurated on October 15, 1958. Test traffic was operated until November 30, 1960, at which time $1.114*10^6$ axle loads had been applied to the pavement test sections.

A special studies program was conducted in the spring and early summer of 1961 over some of the remaining test sections. Strains, deflections and pressures were measured in these studies under a wide variety of vehicle types, load suspension, tires and tire pressures. Special military vehicles, included at the request of the army, as well as highway construction equipment, were included in these tests. The field office for the project was closed in January 1962 (AASHO Road Test, 1961; AASHO Road Test, 1962).

The specific objectives of the AASHO Road Test were:

1) To determine the significant relationships between the number of repetitions of specified axle loads of different magnitude and arrangement and the performance

of different thicknesses of uniformly designed and constructed asphalt concrete surface on different thickness of bases and subbases on a basement soil with known characteristics.

2) To make special studies dealing With such subjects as paved shoulders, base types, pavement fatigue, tire size and pressures, and heavy military vehicles, and to correlate the findings of these special studies with the results of the basic research.

3) To provide a record of the type and extent of effort and materials required to keep each of the test sections or portions thereof in a satisfactory condition until discontinued for test purposes.

4) To develop instrumentation, test procedures, data, charts, graphs, end formulas, which will reflect the capabilities of the various test sections, and which will be helpful in future highway design, in the evaluation of the load-carrying capabilities of existing highways and in determining the most promising areas for further highway research.

2.4 Conclusions of Literature Review

1) All laboratory tests such as direct tension test, flexural fatigue tests, diametral tests, creep tests do not represent the complex insitu conditions.

2) Even though numerous full scale road tests have been conducted at many places for a long time, each one is unique to its own environmental conditions and materials characteristics. Thus, there exists tremendous difficulty in transferring this data to

predict the performance of a new real life highway which mostly comprises of significantly different conditions.

3) All the design procedures as of date have serious limitations in terms of using a wide variety of environmental, material, and loading conditions. The latest AASHTO design procedure does not account for the temperature variable which is the most important one in determining the overall pavement performance. This study attempts to eliminate all these serious limitations as explained in the following chapters.

CHAPTER 3

MATERIALS

The scope of this research contains a study of larger selection of pavement materials (than mentioned in the literature review) specifically suitable to Pennsylvanian conditions.

3.1 Soil

The bulk soil samples used were obtained from borrow pits at three separate sites in Pennsylvania. The three soils are classified as lean clay (CL) according to the Unified Soil Classification System (USCS) and as A-7-6 according to the AASHTO system.

3.2 Limestone dust (LSD)

The limestone dust used was the AASHTO #10 LSD, obtained from Rohrers Quarry, Inc., in Lititz, Pennsylvania. The LSD was the hydrated commercial grade. 10 % LSD gave the best performance results from the PI, CBR, and Swell tests.

The three soils have high clay content. The subbase course materials are lime treated clay with a strength coefficient of 0.16 and sandy gravel with a strength coefficient of 0.11. It is important to note that when treated with LSD (strength coefficient 0.16), the weak clay becomes stronger than untreated sandy gravel (strength coefficient 0.11).

3.3 Asphalt Concrete Mix

12.5 mm SUPERPAVE surface mix has been used for its high stability with the PG 64-22 binder. The aggregate gradation is AASHTO dense gradation.

CHAPTER 4

EXPERIMENTAL DESIGN

Three identical control sample (untreated natural) soil were also prepared for comparison purposes. The following are the tests were conducted:

4.1 Atterberg limits

The tests on the liquid limit (LL), plastic limit (PL), and plasticity index (PI) of the soil-additive mixture were conducted according to ASTM D 4318.

4.2 Compaction

The compaction tests to obtain the moisture-density relationship of the soil-additive mixtures were conducted according to ASTM D 1557.

4.3 California bearing ratio (CBR)

The CBR tests were conducted according to ASTM D 1883. A standard CBR mold with a detachable collar was used. The soil-additive mixtures were compacted at the optimum moisture content and soaked in water for 4 days under a surcharge weight of 5.72 kg before testing. The result confirms that this is a weak soil and it will pose several performance problems including high rutting and hydroplaning.

4.4 Unconfined compressive strength (UCS)

Samples for the UCS were prepared by first mixing the dry soil and limestone to homogeneity, then adding a pre-calculated amount of water determined from the moisture-density relationship. The soil-additive mixtures were allowed to cure for 1 day and then compacted at the energy level of modified Proctor. Samples were then cured in sealed airtight polythene sheets and tested after 1, 7, and 28 days. The unconfined compression test was conducted according to ASTM 2166. . The result also reinforces that this is a weak soil and it will pose several performance problems including high rutting and hydroplaning.

4.5 Swell

Free swell tests were performed by compacting the soil-additive mixtures at the optimum moisture content (OMC) in standard 6.35 cm-diameter consolidation molds in five layers with a Harvard miniature compactor by delivering approximately the same energy to each layer as that used for modified Proctor tests. Tests were performed after approximately 4 days of curing. The soil specimens were allowed to swell for 2 to 4 days or until the daily measured displacement was less than 5% of the total displacement measured at which time the soil swell was measured. . The result indicates that pavement performance problems including high rutting and hydroplaning will be present.

4.6 Measurement of Pavement Temperatures

Initially 20 sites were selected based on population. The list is provided in Appendix B. Out of these cities 3 were randomly selected for the measurement of temperatures. Noninvasive measurements of the temperature are being done in the cracks of SEPTA parking lots. These are in addition to the studies done in Philadelphia.

CHAPTER 5

METHODOLOGY

5.1 General

In this research 95% liability is selected. This is suitable for the design of interstate highways. The variations in the design parameters are accounted by 4 standard deviations of 0.2, 0.35, 0.5 and 0.6. In order to handle the busy highways of the commonwealth of Pennsylvania 10 traffic values are chosen: 0.05, 0.1, 0.3, 0.5, 1, 3, 5, 10, 30, and 50 million standard axels. The following 5 resilient modulus values determined by the laboratory tests represent the stiffness characteristics of soils in Pennsylvania: 4.5, 6, 8.3, 10.5, and 14.5 Ksi. The loss of serviceability index due to the usage of pavement is represented by the following 6 values: (0.05, 1, 1.5, 2, 2.5, and 3). Two surface course and two base course materials were used. The surface course materials are hot mix asphalt and recycled in place asphalt. The base course materials are crushed stone and lime treated base.

The surface course materials are Hot Mix Asphalt with a strength coefficient of 0.44 and in place-recycled mixture with a strength coefficient of 0.2

The base course materials are crushed stone with a strength coefficient of 0.14 and lime treated base with strength coefficient of 0.22.

The subbase course materials are lime treated clay with a strength coefficient of 0.16 and sandy gravel with a strength coefficient of 0.11.

The AASHTO design procedure is based on fulfilling the following structural number equation.

$$SN = a_1D_1 + a_2D_2 + a_3D_3 \quad \text{...Equ. 5.1}$$

Where:

- a_1, a_2, a_3 = structural-layer coefficients of the wearing surface, base, and subbase layers, respectively.
- D_1, D_2, D_3 = thickness of the wearing surface, base, and subbase layers in inches, respectively.

Using the AASHTO design procedure for these combinations of materials and environmental conditions 9600 designs will be developed.

The design started with determining the effect of the LSD as an additive to the subbase material. Subsequently, the effect of the temperature variation on the surface course and its effect on changing the stiffness coefficient for HMA and recycled mix in place were determined.

The following method is used to determine the effect of temperature on the surface course stiffness.

5.2 Experimental Data for MAT and MPT

Three pits of asphalt concrete layer of 2 inches deep and 1.5-inch diameter were selected in Philadelphia. The pavement temperatures at 2 inches deep were recorded for a selected 9 values of air temperatures.

Repeatability

For the known air temperature (Independent variable) three pavement temperatures (dependent variable) were measured. It is confirmed that the repeatability of the dependent variable is within the acceptable limits of accuracy of 1%.

Table 5.1 shows the averaged experimental data for 20 cities. Each site contains 27 values for the pair of air and pavement temperatures measured at the three pits. Air temperature less than 70 F causes negligible damage to the pavement life.

Table 5.1: Air and Pavement Temperature at Pits 1, 2 and 3.

Air Temp. °F	Pit 1	Pit 2	Pit 3
	Pavement Temp. °F @2" depth	Pavement Temp. °F @2" depth	Pavement Temp. °F @2" depth
84.2	101.5	100.2	100.6
82.1	99.0	99.7	99.3
81.9	98.8	100.6	101.5
76.2	92.0	92	91.2
75.6	91.3	91.4	90.3
77	93.0	91.8	92.7
73.5	88.8	87.2	87.3
71.3	86.2	86.6	86.1
71.6	86.5	87.6	88

5.3 Development of Regression Equation between MAT and MPT

The following regression equation was developed using the experimental data shown in Table 5.1.

Mean Pavement Temperature = 1.19 *MAT + 1.32 ……………….Equ. 5.2

5.4 Calculations

Room Temp. = 68 F = AASHTO design-based temperature.

The corresponding Mean Pavement Temperature = 1.19 *68 + 1.32 =82.2 = 27.9 C

A loading time of 0.1 sec. is selected. Using the graph, Figure 5.1 (Shell International, 1978) showing the relationship between loading time and stiffness, stiffness values are determined for the selected pavement temperatures shown in step1 and Table 5.1.

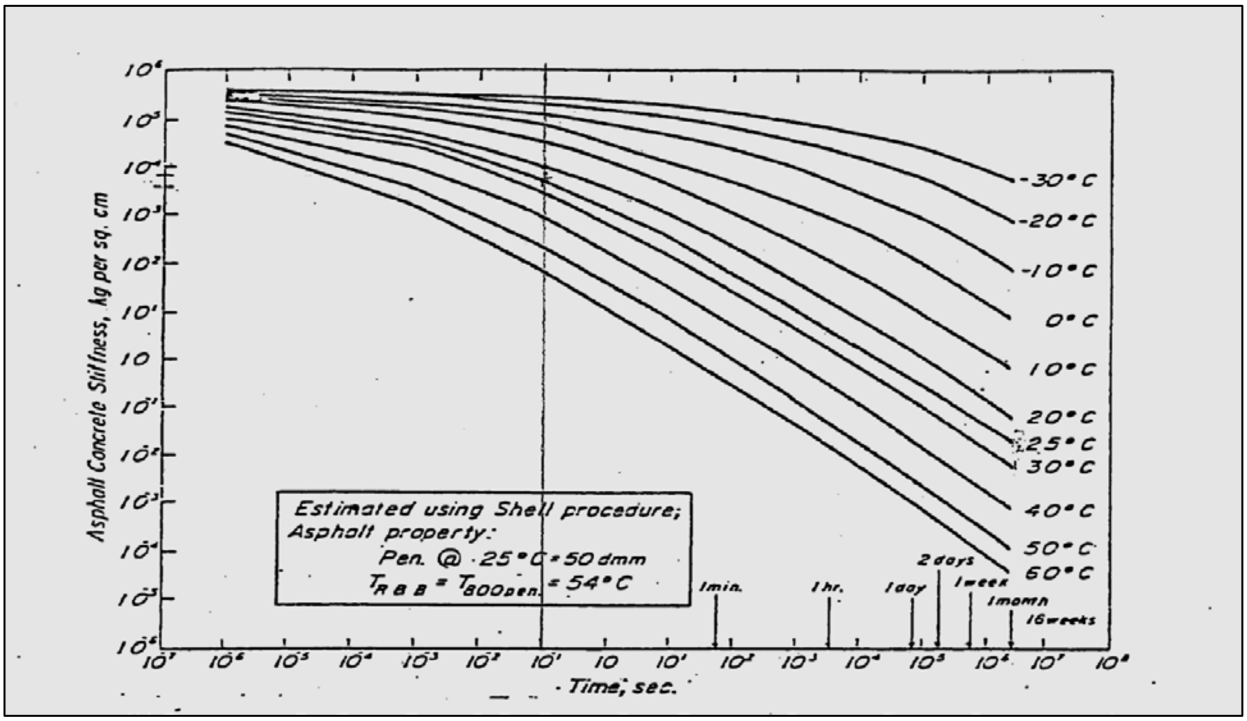

Fig. 5.1 Variation of asphalt stiffness with time and temperature (Shell International, 1978)

From the graph Stiffness is equal to 4,700 Kg/cm^2 = 66,850 Psi.

5.5 Correction of AASHTO strength coefficients for asphalt concrete

Table 5.2 shows the average air temperature for the hottest three months in Pennsylvania (NOAA - National Weather Service). This contains the worst-case scenario representing the temperature effect of entire year on the pavement.

Table 5.2: Mean Monthly Air Temperature in the study area for June, July and August 2018.

Temp. in F / Month	June	July	August	Average
High Temp.	83	87	85	85
Low Temp.	69	69	68	68.7
Average	76.0	78	76.5	76.8

The Mean hottest 3 months (June, July, August) Air Temperate MAT for Pennsylvania State in 2018 = 76.8 F. the corresponding mean pavement temperature:

The corresponding Mean Pavement Temperature = 1.19*MAT + 1.32

MPT in Pennsylvania = 1.19*76.8 + 1.32 = 92.7 F = 33.7 C

From graph 5.1, Stiffness is equal to 1,900 Kg/cm2 = 27,025 Psi

Change in stiffness = (4,700 – 1,900)/4700 = 2,800 / 4,700 = 59.57 % Reduction

The corrected AASHTO strength coefficient for HMA = 0.44 *(1 – 0.5957) = 0.178

The corrected AASHTO strength coefficient for Recycled Mix=0.20*(1 - 0.5957) = 0.081

The corrected strength coefficients were used for designing the 9600 pavement sections in. Pennsylvania representing a wide variety of conditions described in the Methodology section.

The following are the detailed steps for designing the pavement sections. The results are shown in Appendix A.

To affirm the validity of the procedure for the determination of asphalt concrete stiffnesses, 9 diametral tests were conducted at room temperature following the ASTM standard D- 6931. The lab stiffnesses changes confirmed the stiffnesses changes obtained in this procedure within the accuracy of 2%.

5.6 Design Details

The following is the explanations of 32 columns covering the 9600 designs.

Column 1

Column 1 contains Reliability in %. 95% reliability.

Column 2

Column 2 is standard deviation. This variable ranges from 0.2 to 0.6. The four values are 0.2, 0.35, 0.5 and 0.6.

Column 3

Column 3 contains traffic in million standard axles. The 10 values are 0.05, 0.1, 0.3, 0.5, 1, 3, 5, 10, 30, and 50.

Column 4

Column 4 contains Resilient Modulus in Ksi. The 5 values are 4.5, 6, 8.3, 10.5, and 14.5.

Column 5

Delta PSI is the difference between the initial design serviceability index, po, and the design terminal serviceability index, pt. 6 values (0.05, 1, 1.5, 2, 2.5, and 3) of Delta psi were used.

Column 6

This column contains the Structural Number. This ranges from 1 through 13. This is derived by following design procedure of AASHTO for the flexible pavements.

Column 7

This column contains the minimum thickness in inches of surface course for design 1. The values range from 1 through 4. The actual values are 1, 2, 2.5, 3, 3.5 and 4.

Column 8

This column contains the minimum thickness in inches of base course for design 1. The values range from 4 to 6. There are only two values for this variable.

Column 9

This column contains the design thickness in inches for the subbase course for design 1. The strength coefficients are: 0.178, 0.14, 0.16. The excel equation for the design is given at the heading of the column 9. [(F5-AE5*G5-0.14*H5)/0.16]. The same equation is used for columns 9, 15, 21, 27.

<u>Column 10</u>

This column contains the minimum thickness in inches of surface course for design 2. The values range from 1 through 4. The actual values are 1, 2, 2.5, 3, 3.5 and 4.

<u>Column 11</u>

This column contains the minimum thickness in inches of base course for design 2. The values range from 4 to 6. There are only two values for this variable.

<u>Column 12</u>

This column contains the design thickness in inches for the subbase course for design 2. The strength coefficients are: 0.178, 0.14, 0.11. [(F5-AE5*J5-0.14*K5)/0.11]. the same equation is used for columns 12, 18,24, 30.

<u>Column 13</u>

This column contains the minimum thickness in inches of surface course for design 3. The values range from 1 through 4. The actual values are 1, 2, 2.5, 3, 3.5 and 4.

<u>Column 14</u>

This column contains the minimum thickness in inches of base course for design 3. The values range from 4 to 6. There are only two values for this variable.

Column 15

This column contains the design thickness in inches for the subbase course for design 3. The strength coefficients are: 0.178, 0.22, 0.16.

Column 16

This column contains the minimum thickness in inches of surface course for design 4. The values range from 1 through 4. The actual values are 1, 2, 2.5, 3, 3.5 and 4.

Column 17

This column contains the minimum thickness in inches of base course for design 4. The values range from 4 to 6. There are only two values for this variable.

Column 18

This column contains the design thickness in inches for the subbase course for design 4. The strength coefficients are: 0.178, 0.22, 0.11.

Column 19

This column contains the minimum thickness in inches of surface course for design 5. The values range from 1 through 4. The actual values are 1, 2, 2.5, 3, 3.5 and 4.

Column 20

This column contains the minimum thickness in inches of base course for design 5. The values range from 4 to 6. There are only two values for this variable.

Column 21

This column contains the design thickness in inches for the subbase course for design 5. The strength coefficients are: 0.081, 0.14, 0.16.

Column 22

This column contains the minimum thickness in inches of surface course for design 6. The values range from 1 through 4. The actual values are 1, 2, 2.5, 3, 3.5 and 4.

Column 23

This column contains the minimum thickness in inches of base course for design 6. The values range from 4 to 6. There are only two values for this variable.

Column 24

This column contains the design thickness in inches for the subbase course for design 6. The strength coefficients are: 0.081, 0.14, 0.11.

Column 25

This column contains the minimum thickness in inches of surface course for design 7. The values range from 1 through 4. The actual values are 1, 2, 2.5, 3, 3.5 and 4.

Column 26

This column contains the minimum thickness in inches of base course for design 7. The values range from 4 to 6. There are only two values for this variable.

Column 27

This column contains the design thickness in inches for the subbase course for design 7. The strength coefficients are: 0.081, 0.22, 0.16.

Column 28

This column contains the minimum thickness in inches of surface course for design 8. The values range from 1 through 4. The actual values are 1, 2, 2.5, 3, 3.5 and 4.

Column 29

This column contains the minimum thickness in inches of base course for design 8. The values range from 4 to 6. There are only two values for this variable.

Column 30

This column contains the design thickness in inches for the subbase course for design 8. The strength coefficients are 0.081, 0.22, and 0.11.

Column 31

This column contains the Asphalt Concrete corrected strength coefficient (0.262).

Column 32

This column contains the Recycled Mix corrected strength coefficient (0.119).

CHAPTER 6

RESULTS AND DISCUSSION

6.1 Results and Discussion on Design

All the 9600 designs are tailor-made for the construction of highways on the in-situ weak soils of PA covering a wide variety of traffic, weather, and material conditions. 100% has been completed.

A total of 9600 designs (Reliability %: 95%) are completed following the AASHTO pavement design standards. These designs cover 4 standard deviations * 10 traffic values * 5 MR values * 6 Delta PSI values * 2 surface course materials * 2 base course materials * 2 subbase materials.

For all the eight designs, the surface course and the base course contain minimum thicknesses as a function of traffic. The eight designs are designed minimizing the cost of construction.

The efficacy of expansive soil-limestone as subbase material was evaluated by designing and estimating a flexible pavement thicknesses as per the excel sheets (See Appendix A).

Figure 6.1 below shows the influence of structural number on subbase thickness. A linear relationship is given with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2, traffic 0.05 million standard axles, Subbase MR 4.5 Ksi, Delta PSI 0.05, HMA surface course 1.0 inch, crushed stone base course 4.0 inches.

$$y = 6.25x - 5.10 \qquad [6.1]$$

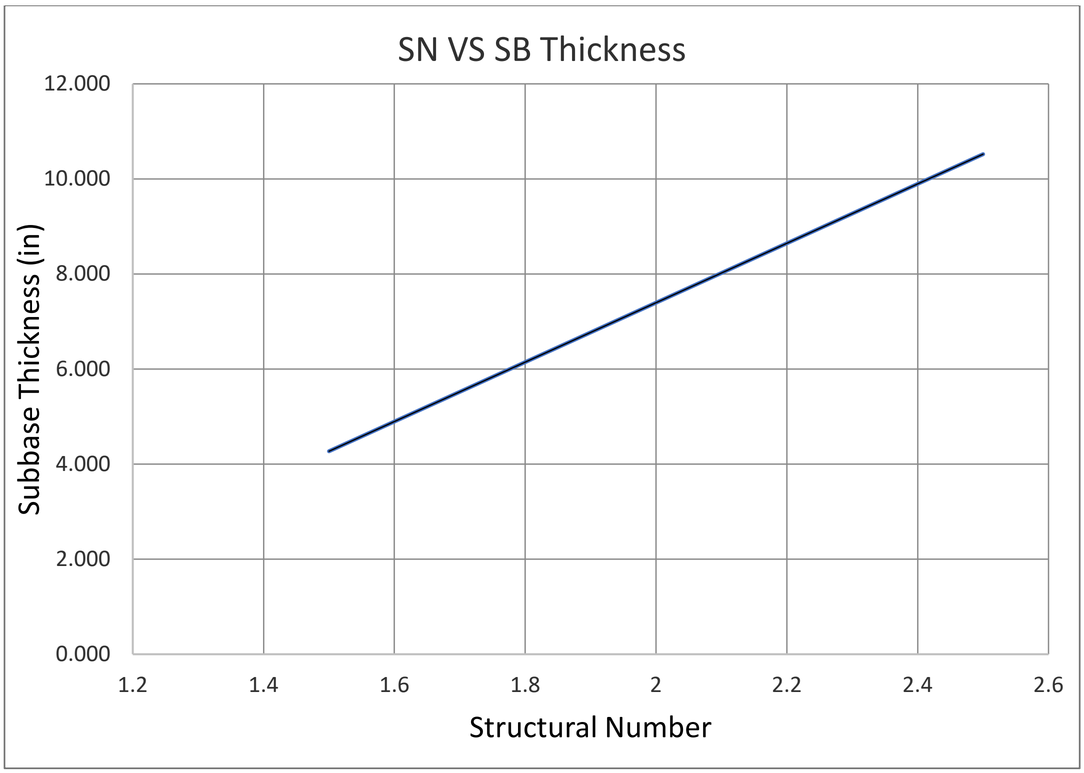

Fig. 6.1: Influence of Structural Number on the Subbase Thickness

Figure 6.2 below shows the influence of change in the serviceability index on subbase thickness. A nonlinear relationship is given with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2 traffic 1.0 million standard axles, MR 4.5 Ksi, HMA surface course 3.0 inches, crushed stone base course 6.0 inches.

$$y = 22.77\ e^{-0.0298x} \qquad [6.2]$$

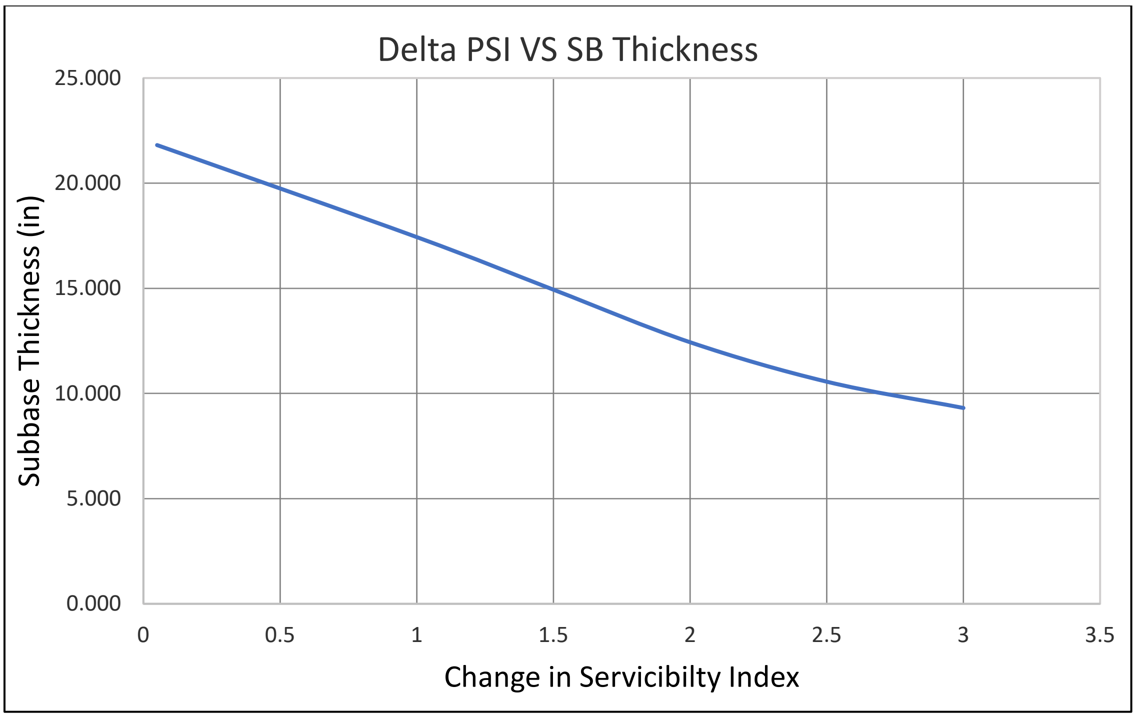

Fig. 6.2: Influence of Serviceability Index change on the Subbase Thickness

Figure 6.3 below shows the influence of resilient modulus of subbase on subbase thickness. A nonlinear relationship is given with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.5 traffic 5.0 million standard axles, Delta PSI 0.05, HMA surface course 3.5 inches, crushed stone base course 6.0 inches.

$$y = 36.313\, e^{-0.068x} \qquad [6.3]$$

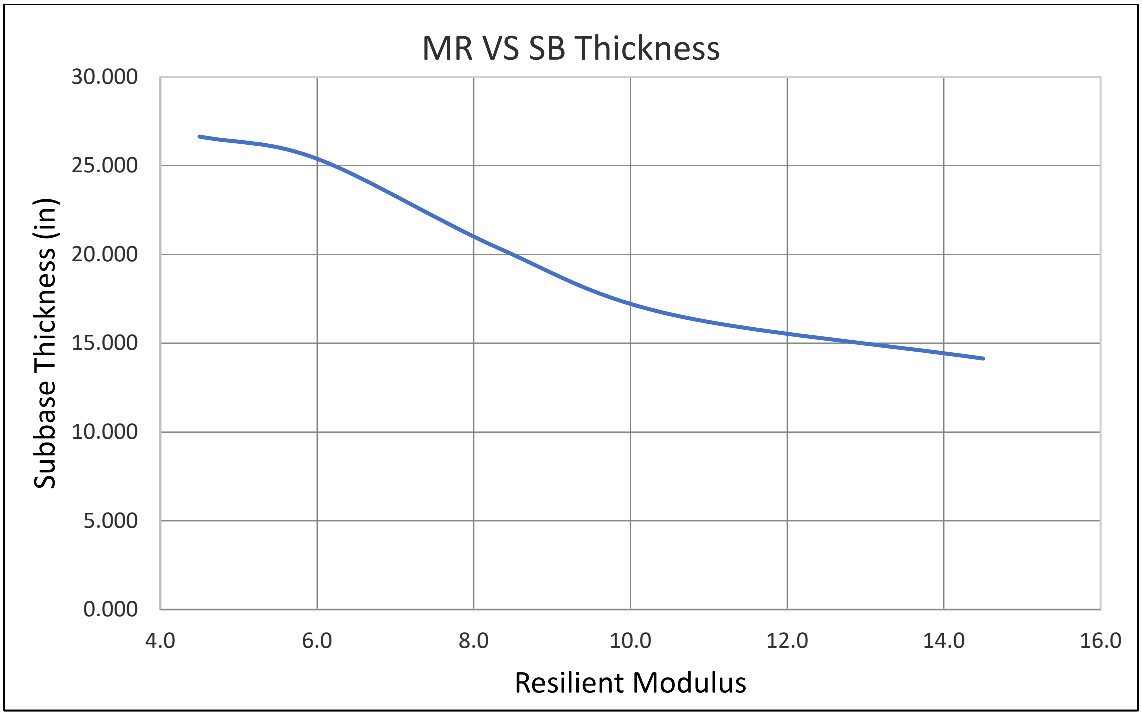

Fig. 6.3: Influence of Resilient Modulus on the Subbase Thickness

Figure 6.4. below shows the influence of change in the serviceability index on subbase thickness. A nonlinear relationship is show with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2 traffic 1.0 million standard axles, MR 4.5 Ksi, HMA surface course 1.0 inches, crushed stone base course 4.0 inches.

$$y = 10.679\, e^{-0.056x} \qquad [6.4]$$

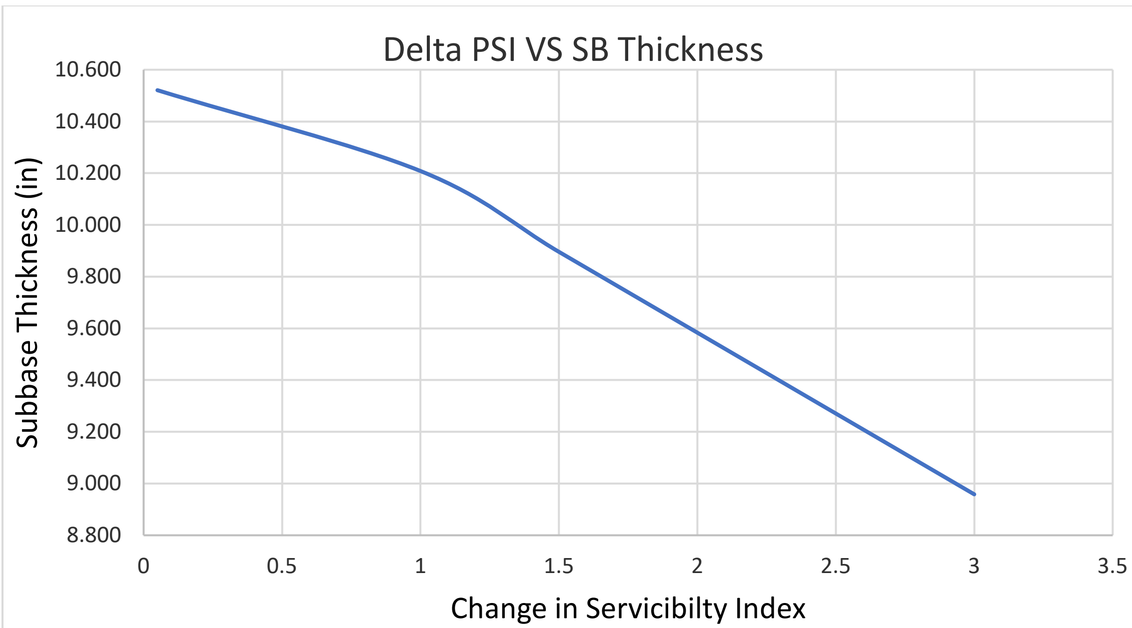

Fig. 6.4: Influence of Serviceability Index change on the Subbase Thickness

Figure 6.5. below shows the influence of resilient modulus of subbase on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2 traffic 1.0 million standard axles, Delta PSI 0.05, HMA surface course 3.0 inches, crushed stone base course 6.0 inches.

$$y = 33.715\, e^{-0.094x} \qquad [6.5]$$

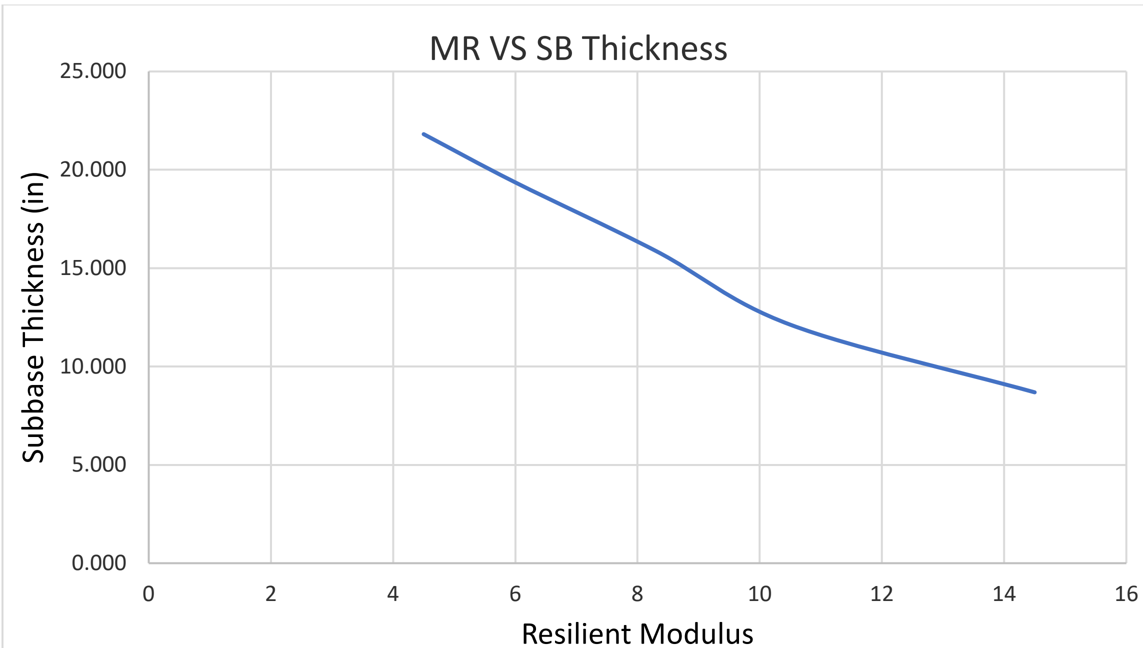

Fig. 6.5: Influence of Resilient Modulus on the Subbase Thickness

Figure 6.6. below shows the influence of change in the serviceability index on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2 traffic 3.0 million standard axles, MR 4.5 Ksi, HMA surface course 3.5 inches, crushed stone base course 6.0 inches.

$$y = 27.72\ e^{-0.289x} \qquad [6.6]$$

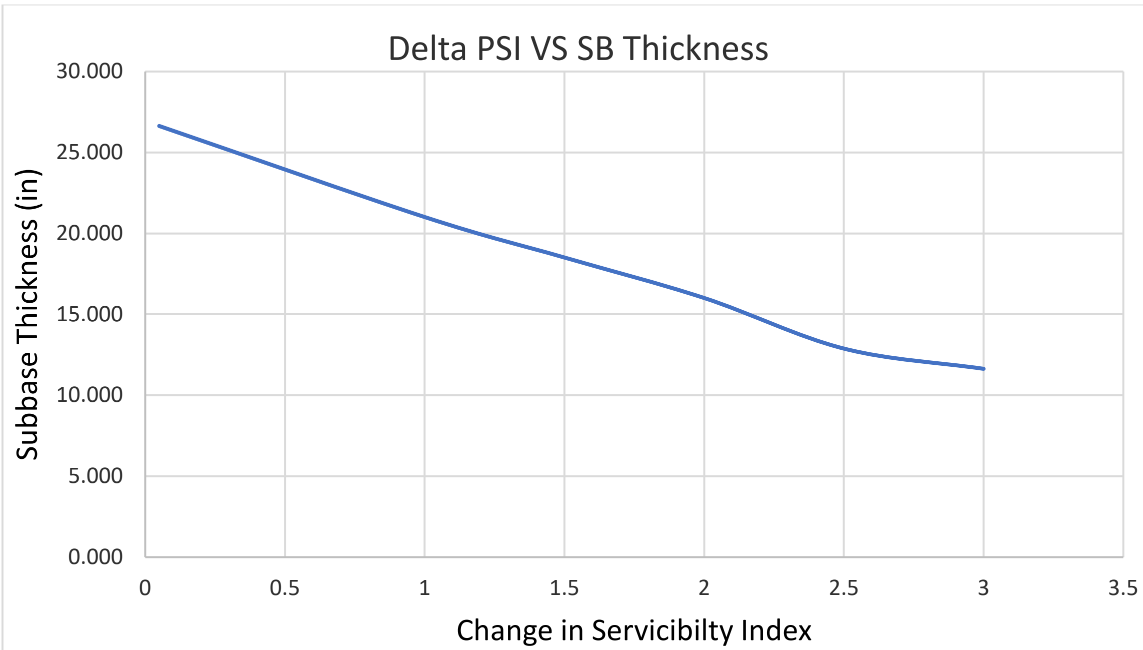

Fig. 6.6: Influence of Serviceability Index change on the Subbase Thickness

Figure 6.7. below shows the influence of resilient modulus of subbase on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2 traffic 0.5 million standard axles, Delta PSI 0.05, HMA surface course 2.5 inches, crushed stone base course 4.0 inches.

$$y = 35.541\ e^{-0.111x} \qquad [6.7]$$

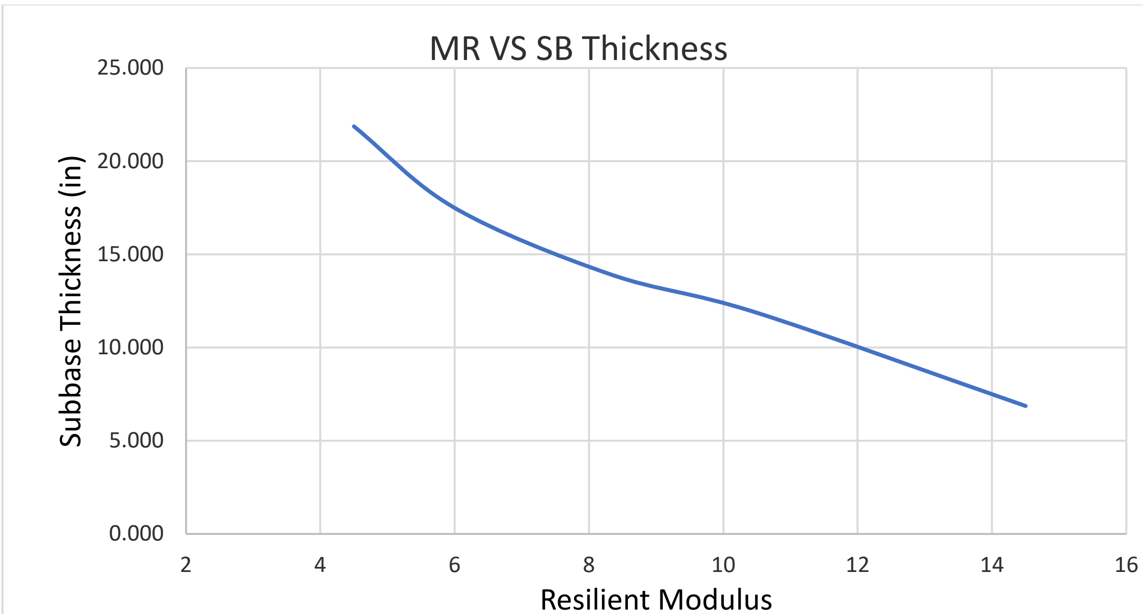

Fig. 6.7: Influence of Resilient Modulus on the Subbase Thickness

Figure 6.8. below shows the influence of structural number on subbase thickness. A linear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2, traffic 0.5 million standard axles, Subbase MR 4.5 Ksi, Delta PSI 0.05, HMA surface course 2.5 inches, crushed stone base course 4.0 inches.

$$y = 6.25x - 7.51 \qquad [6.8]$$

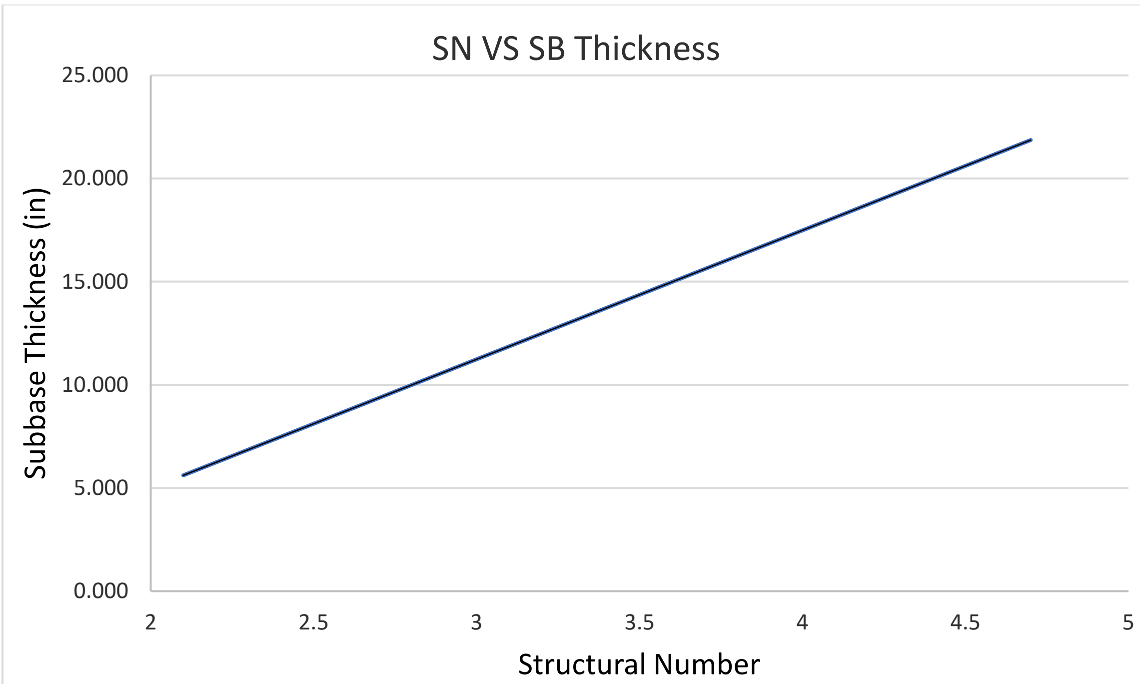

Fig. 6.8: Influence of Structural Number on the Subbase Thickness

Figure 6.9 below shows the influence of resilient modulus of subbase on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 1.0 million standard axles, Delta PSI 0.05, HMA surface course 3.0 inches, crushed stone base course 6.0 inches.

$$y = 39.364\, e^{-0.084x} \qquad [6.9]$$

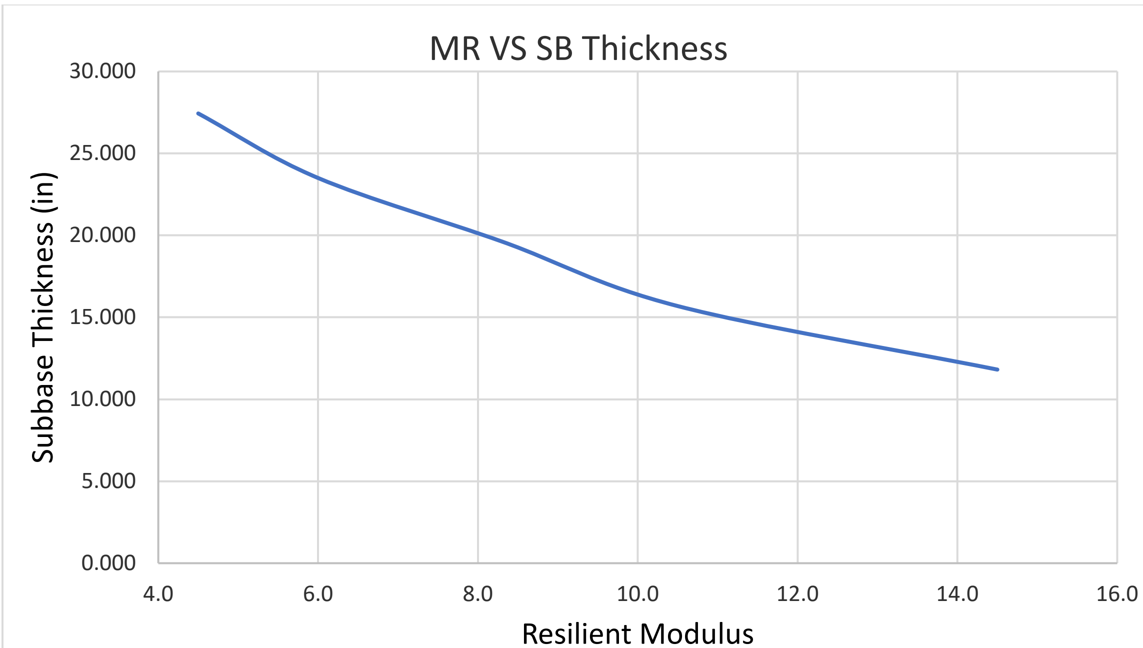

Fig. 6.9: Influence of Resilient Modulus on the Subbase Thickness

Figure 6.10 below shows the influence of change in the serviceability index on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 1.0 million standard axles, MR 4.5 Ksi, HMA surface course 3.0 inches, crushed stone base course 6.0 inches.

$$y = 26.972\, e^{-0.251x} \qquad [6.10]$$

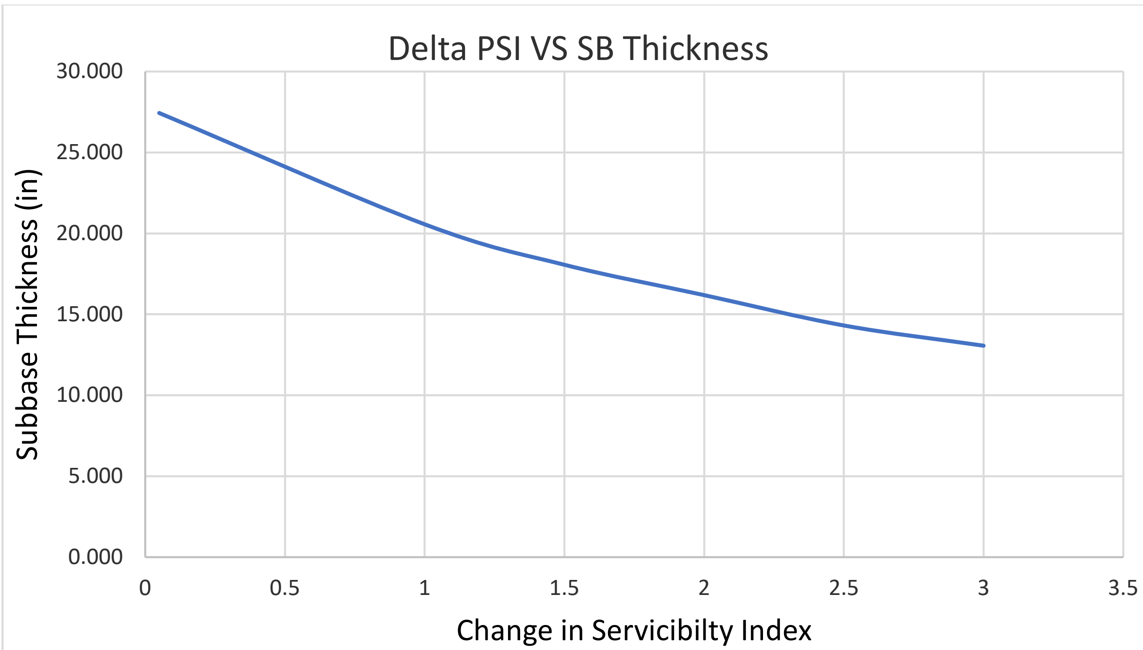

Fig. 6.10: Influence of Serviceability Index change on the Subbase Thickness

Figure 6.11 below shows the influence of resilient modulus of subbase on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 3.0 million standard axles, Delta PSI 0.05, HMA surface course 3.5 inches, crushed stone base course 6.0 inches.

$$y = 30.356\ e^{-0.065x} \qquad [6.11]$$

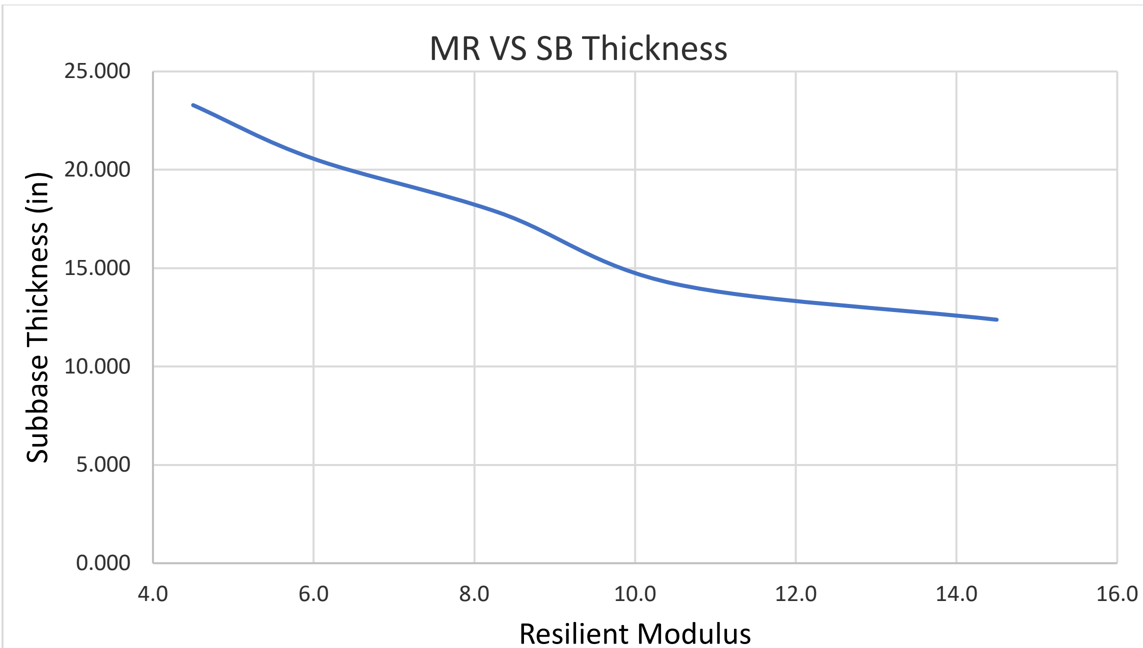

Fig. 6.11: Influence of Resilient Modulus on the Subbase Thickness

Figure 6.12 below shows the influence of change in the serviceability index on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 3.0 million standard axles, MR 4.5 Ksi, HMA surface course 3.5 inches, crushed stone base course 6.0 inches.

$$y = 45.609\ e^{-0.269x} \qquad [6.12]$$

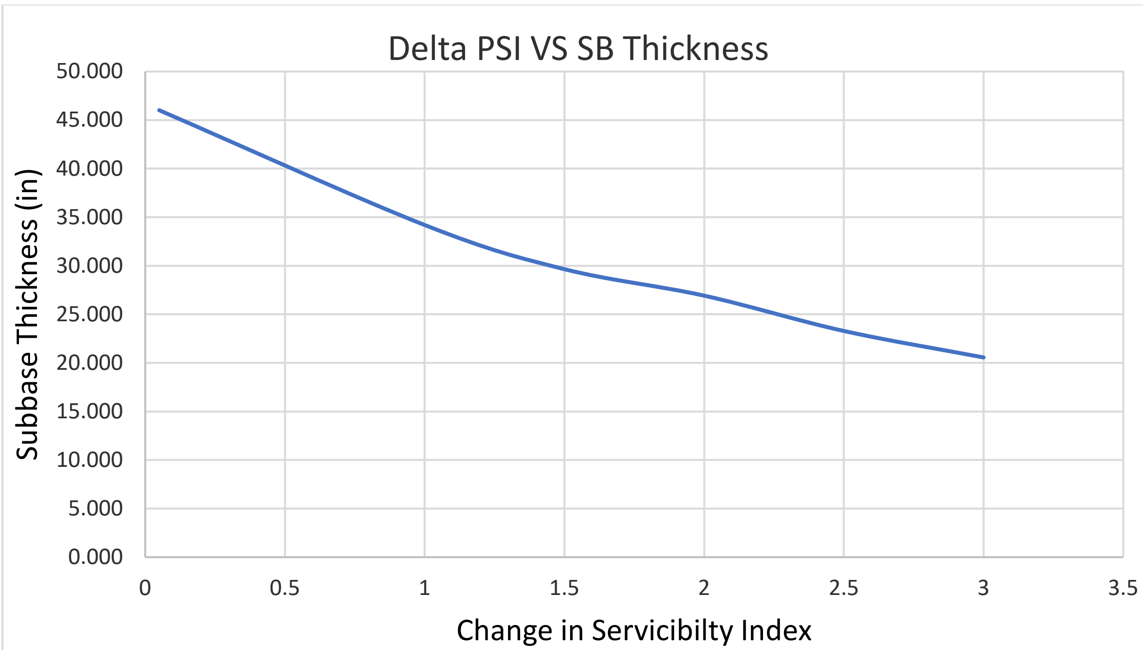

Fig. 6.12: Influence of Serviceability Index change on the Subbase Thickness

Figure 6.13 below shows the influence of resilient modulus of subbase on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 5.0 million standard axles, Delta PSI 1.5, HMA surface course 3.5 inches, lime treated base course 6.0 inches.

$$y = 23.325\, e^{-0.053x} \quad [6.13]$$

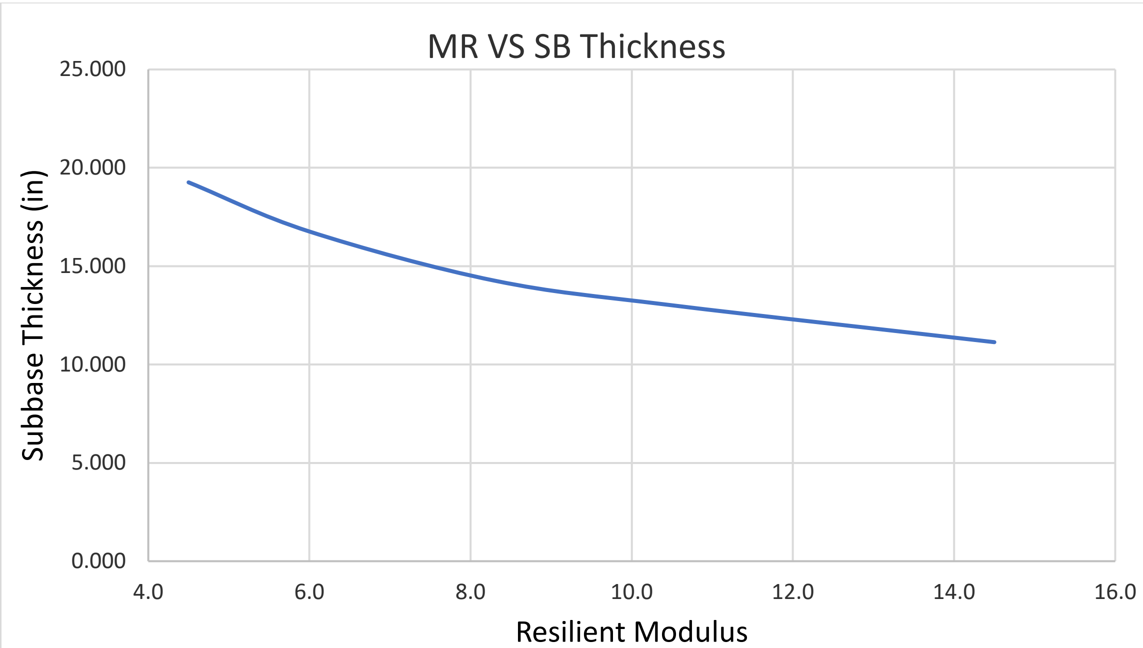

Fig. 6.13: Influence of Resilient Modulus on the Subbase Thickness

Figure 6.14 below shows the influence of change in the serviceability index on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 5.0 million standard axles, MR 4.5 Ksi, HMA surface course 3.5 inches, crushed stone base course 6.0 inches.

$$y = 32.873\ e^{-0.308x} \quad [6.14]$$

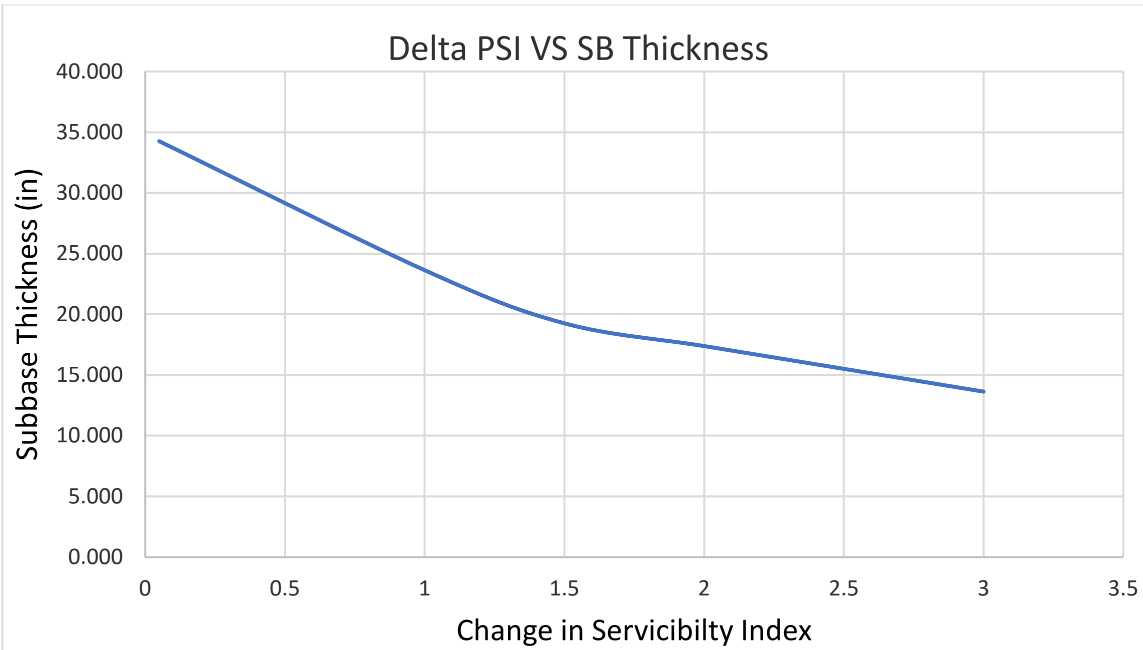

Fig. 6.14: Influence of Serviceability Index change on the Subbase Thickness

Figure 6.15 below shows the influence of resilient modulus of subbase on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 10.0 million standard axles, Delta PSI 2.0, HMA surface course 4.0 inches, lime treated base course 6.0 inches.

$$y = 39.517\, e^{-0.056x} \qquad [6.15]$$

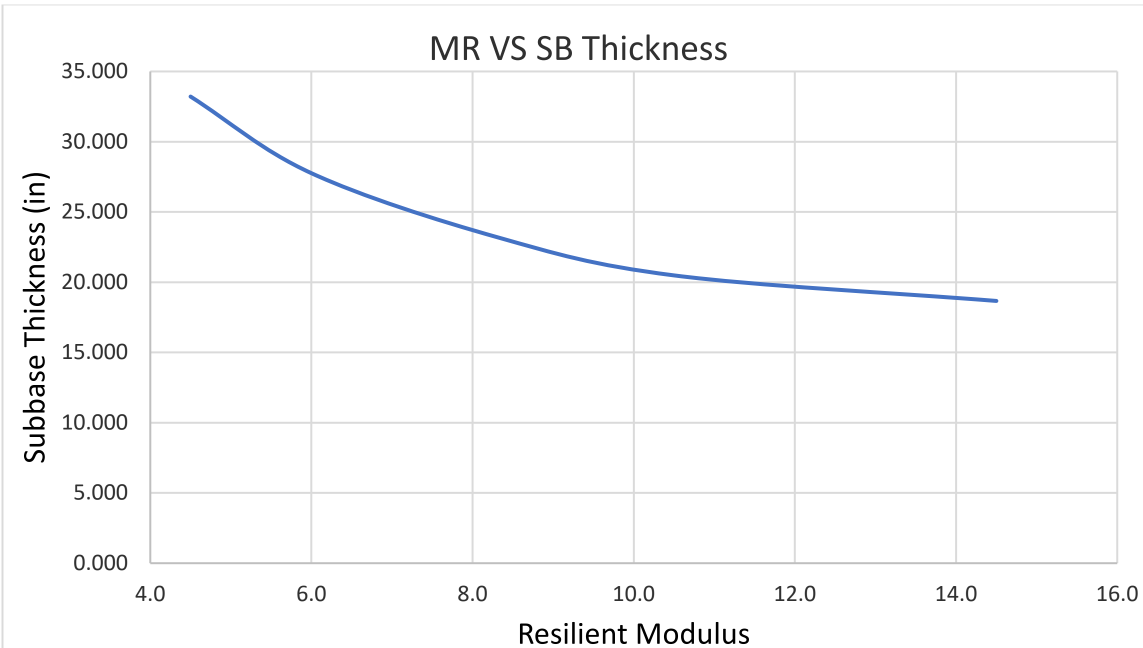

Fig. 6.15: Influence of Resilient Modulus on the Subbase Thickness

Figure 6.16 below shows the influence of change in the serviceability index on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 10.0 million standard axles, MR 4.5 Ksi, HMA surface course 4.0 inches, lime treated base course 6.0 inches.

$$y = 59.771\, e^{-0.301x} \quad [6.16]$$

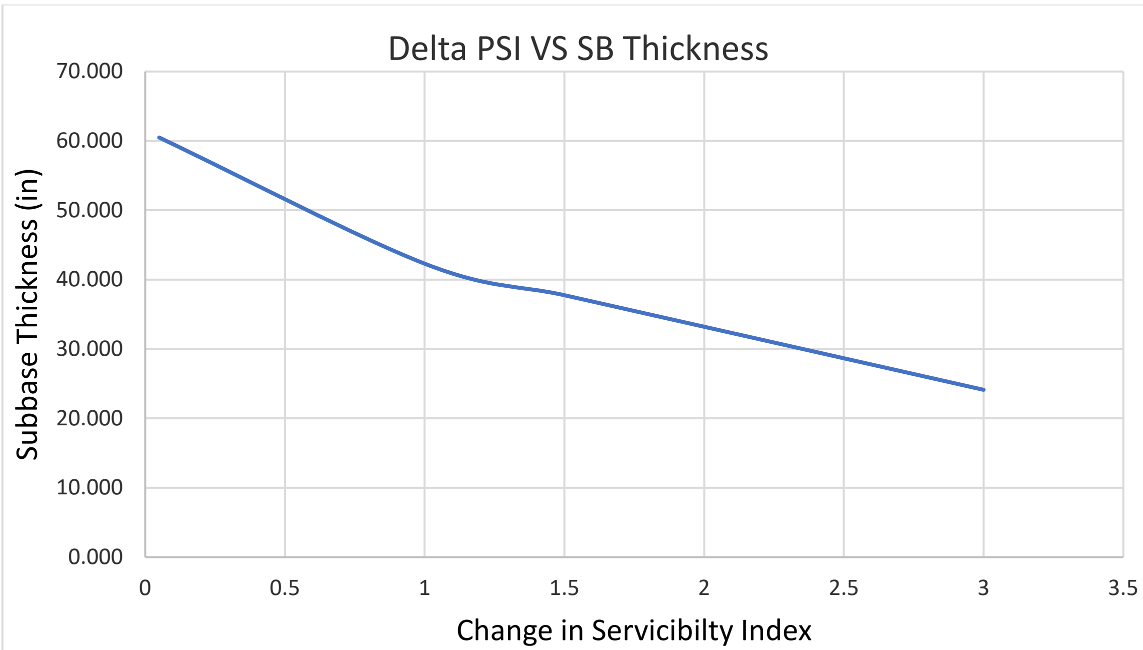

Fig. 6.16: Influence of Serviceability Index change on the Subbase Thickness

Figure 6.17 below shows the influence of resilient modulus of subbase on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.5 traffic 30.0 million standard axles, Delta PSI 2.5, HMA surface course 4.0 inches, lime treated base course 6.0 inches.

$$y = 27.922\ e^{-0.043x} \qquad [6.17]$$

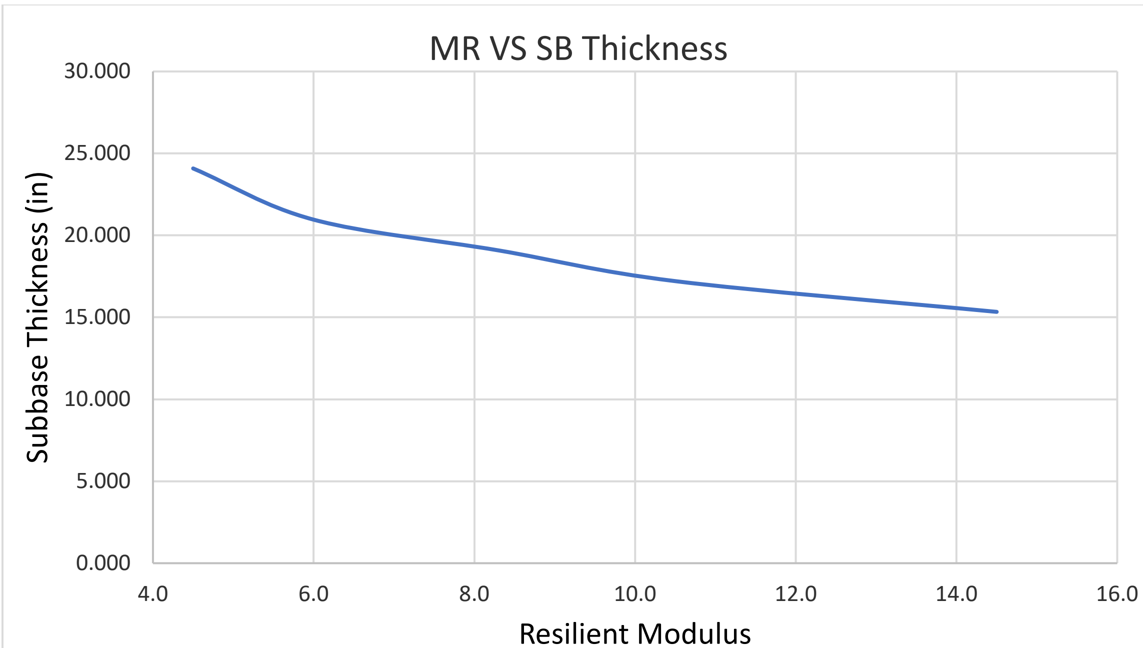

Fig. 6.17: Influence of Resilient Modulus on the Subbase Thickness

Figure 6.18 below shows the influence of change in the serviceability index on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.5 traffic 30.0 million standard axles, MR 4.5 Ksi, HMA surface course 4.0 inches, lime treated base course 6.0 inches.

$$y = 47.194\, e^{-0.283x} \qquad [6.18]$$

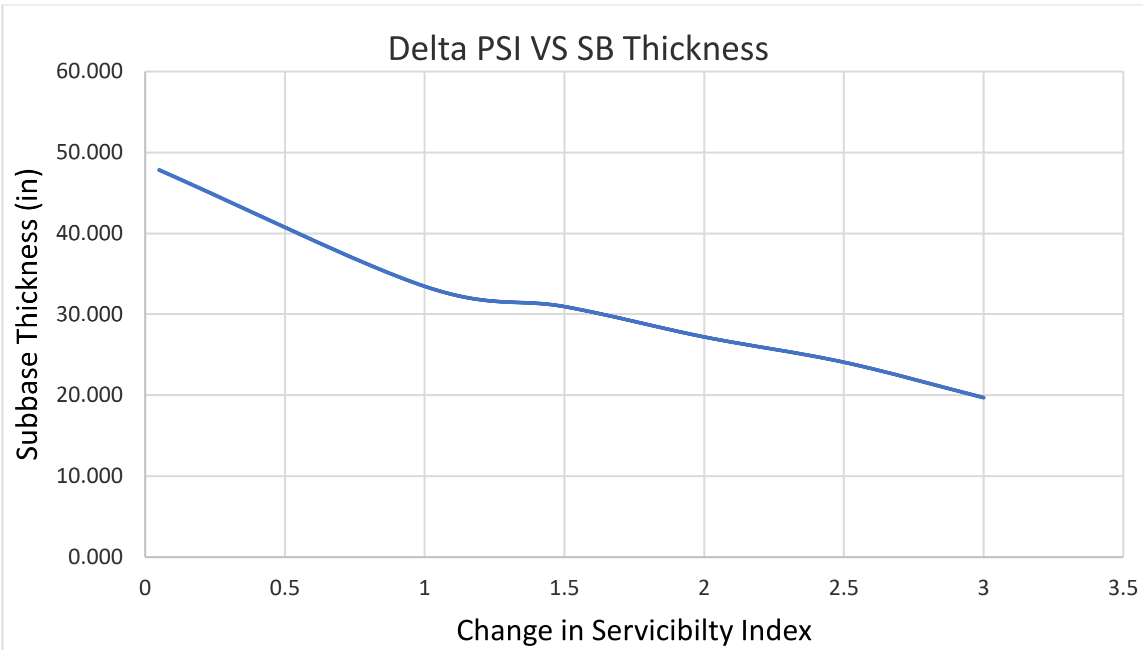

Fig. 6.18: Influence of Serviceability Index change on the Subbase Thickness

Figure 6.19 below shows the influence of resilient modulus of subbase on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.6 traffic 1.0 million standard axles, Delta PSI 1.5, place-recycled mix surface course 3.0 inches, lime treated base course 6.0 inches.

$$y = 26.806\, e^{-0.049x} \qquad [6.19]$$

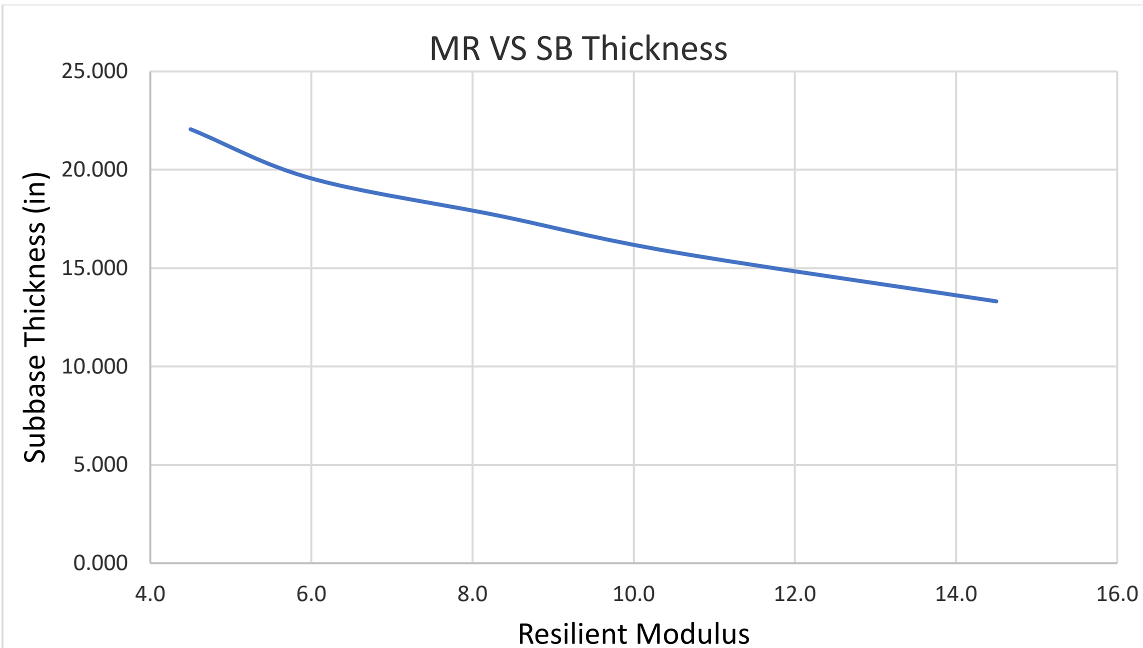

Fig. 6.19: Influence of Resilient Modulus on the Subbase Thickness

Figure 6.20 below shows the influence of change in the serviceability index on subbase thickness. A nonlinear relationship is shown with the equation below. The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.6 traffic 1.0 million standard axles, MR 4.5 Ksi, place-recycled mix surface course 3.0 inches, lime treated base course 6.0 inches.

$$y = 43.439\ e^{-0.262x} \qquad [6.20]$$

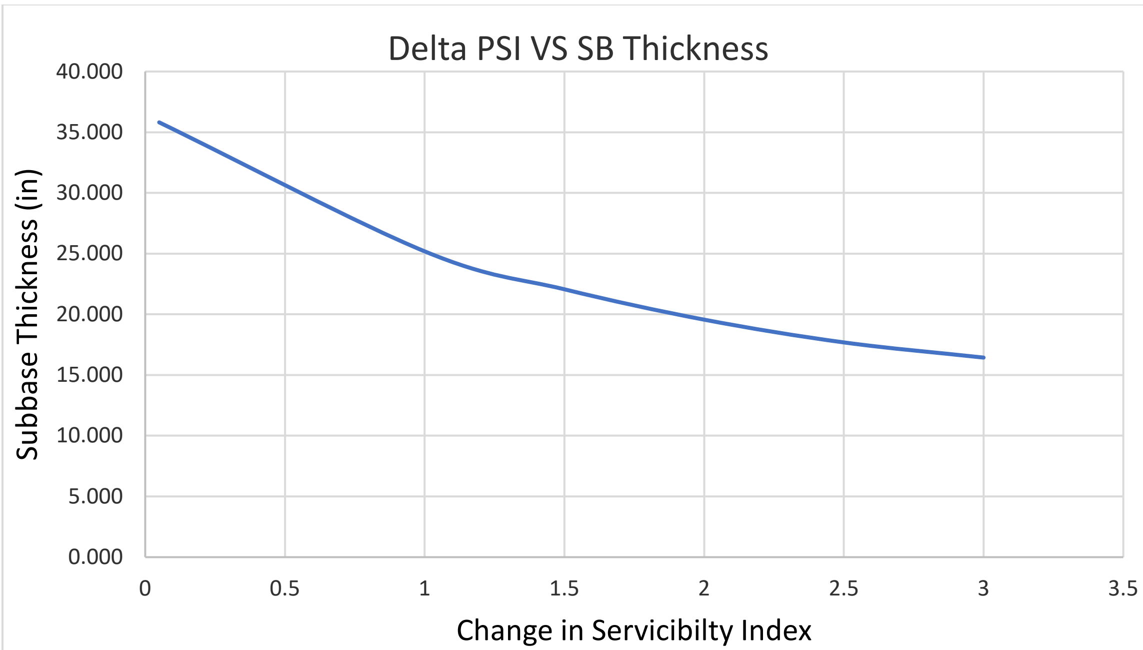

Fig. 6.20: Influence of Serviceability Index change on the Subbase Thickness

6.2 Results and Discussion on Subgrade Admixtures

There are many engineering parameters that characterize the performance of soils. A significant way of influencing their performance is by swelling and shrinking. Clay content has direct negative effect on this important property of soils. Using admixtures such as Flyash and Wheat Husk Ash is a doable for obtaining Improvements in Engineering Characteristics.

6.2.1 Materials

Flyash, Wheat Husk Ash, and soil were used in this study. A CH soil of the USCS classification was utilized for the research. In this investigation, Wheat Husk Ash passing through No. 100 sieve (150 micrometers) was used. The Wheat Husk Ash had 56% silica content. This amount provides good pozzolanic action. The details of the materials are given elsewhere (Brooks, Al-Ayaydah, 2019).

6.2.2 Experiments

Several simple but valuable tests were conducted to support the importance of this study. These include the following tests:

a. Compaction

The tests were performed in accordance with ASTM D 1557. The specimens were of 102mm diameter and 116mm height.

b. UCS

The UCS tests were performed in accordance with ASTM D 2166. The sample sizes were of 40mm diameter and 80mm length.

c. CBR

The CBR test is an important one used for determining the strength of various layers of pavements. The layers include sub grade soil, sub base, and base course material. The CBR test results can play an instrumental role for the comparison of designed thickness for highways and airfield pavements. The CBR tests were conducted in accordance with ASTM D 1883. The sample sizes were of 152mm diameter and 126mm length.

d. Swelling

Consolidation test (ASTM D 2435) setup was used for determining the cyclic swell-shrink behavior of the soil. The sample sizes were 76mm and 50mm in diameter and height respectively. The samples were prepared at Proctor's dry densities. The compacted admixture was cured for 14 days and placed over the expansive soil. The efficacy of Wheat Husk Ash as a cushioning layer between the foundation and subgrade was also tested using the consolidation test.

The Influence of flyash content on the UCS of WHA is presented in Figure 6.21.

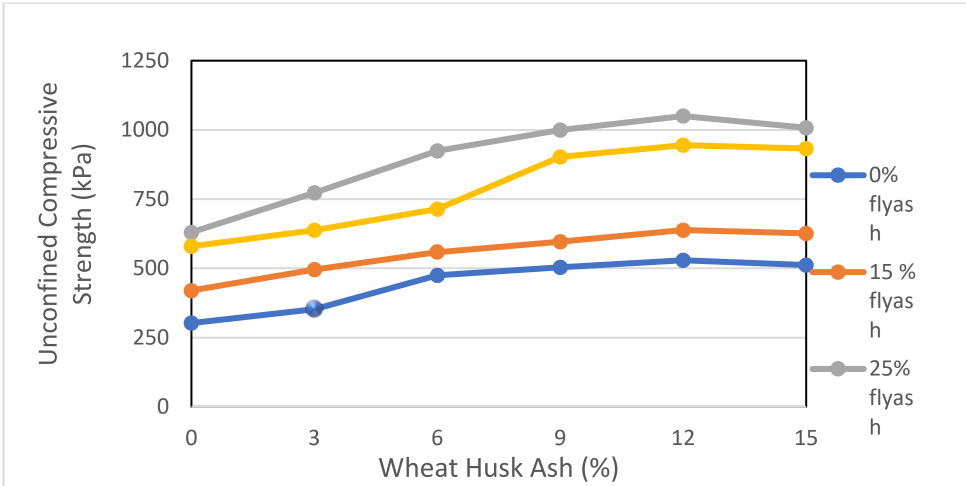

Fig. 6.21 Influence of Wheat Husk Ash on UCS for clay-flyash mixture.

The influence of flyash on the stress strain behavior of the clay specimens in UCS test is shown in Figure 6.22. The flyash content varied from 0 to 30%. When flyash was increased from 0 % to 25 %, the compressive strength increased from 286 to 462 kPa at a strain of 6%. When flyash was increased from 0 % to 25 %, the compressive strength increased from 227 to 580 kPa at a strain of 9% as shown in Figure 6.22.

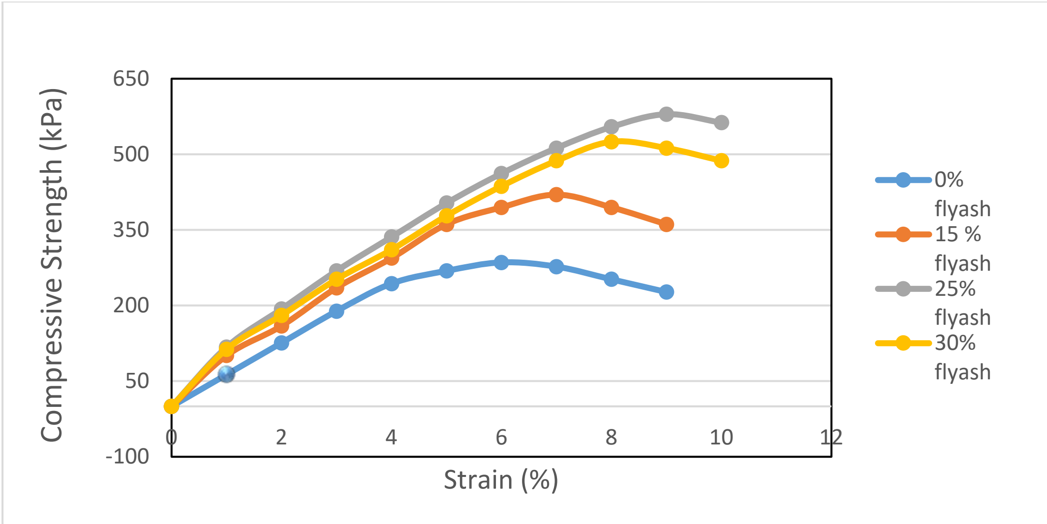

Fig. 6.22 Influence of flyash on the stress-strain behavior of the soil.

The influence of Wheat Husk Ash on CBR of clay-flyash mix is shown in Figure 6.23. At any flyash content, addition of Wheat Husk Ash up to 12% led to increases in CBR. Further increase in Wheat Husk Ash decreased CBR, indicating that 12% is the optimum value of Wheat Husk Ash. When the Wheat Husk Ash content was increased from 0 to 12%, CBR improved from 1.4 to 5.2 for 0% flyash. When the Wheat Husk Ash content was increased from 0 to 12%, CBR improved from 2.4 to 7.1 % for 25% flyash as shown in Figure 6.23. Low cohesion makes the Wheat Husk ash a poor cushioning and construction material. However, after stabilizing with flyash and curing for 28 days, Wheat Husk ash acquires better cushioning properties and hence it can be used as a construction material between the subgrade and foundations.

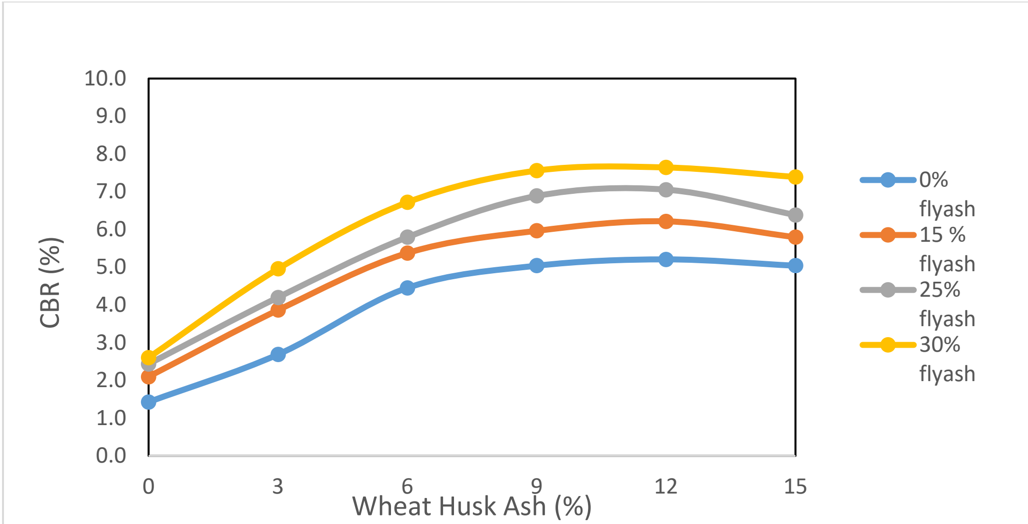

Fig. 6.23 Influence of Wheat Husk Ash on CBR for clay-flyash mixture.

Figure 6.24 shows the influence of number of cycles on swell percent. Figure 6.25 shows the influence of swell reduction layer thickness ratio on percent swell for various surcharges.

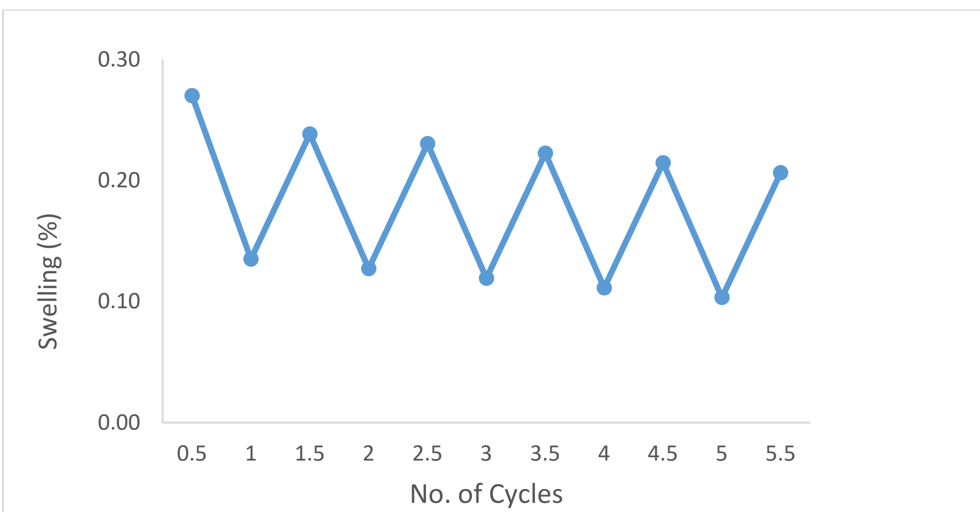

Fig. 6.24 Influence of number of cycles on swelling of 15% flyash and Wheat Husk Ash blend under surcharge of 5kPa.

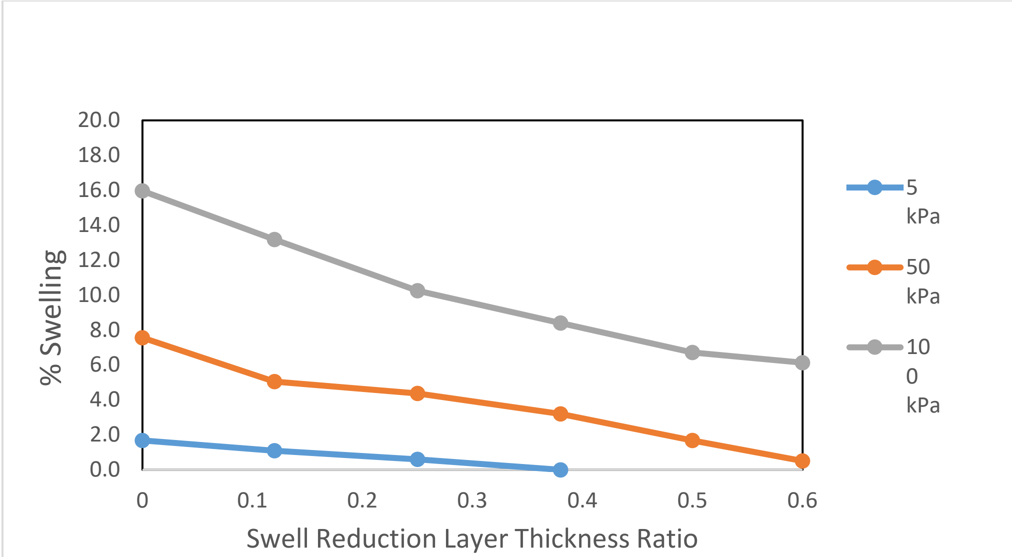

Fig. 6.25 Influence of Swell reduction layer thickness ratio on swell percentage of soil for various surcharges.

At 15% flyash and 12% Wheat Husk Ash, for a 28-day curing period, the UCS is 638 kPa as shown in Figure 6.21. As per Kate and Katti, this qualifies as a cushioning material at 15% flyash. Similar results were found by Sivapulliah et al. for a Wheat Husk Ash-lime mixture.

6.3 Discussion on the LSD, clay reactions and formation of equations for the engineering improvements using Chemical Science

Adding lime to expansive soil leads to cation exchange (Bell 1996; Prusinski and Bhattacharja 1999; Boardman et al. 2001). As per Zhao, et al. (Zhao, 2015) the cation exchange, ions crowding, formation of Ca(OH)2·nH2OCa(OH)2·nH2O, agglomeration, and breaking of clay particles in a high pH environment are the dominant reactions in the early stage of treating expansive clay with lime; and the pozzolanic reaction and carbonation occurs at a late stage after lime treatment.

Cementation enhances the long-term performance of the stabilized soils. This is achieved by pozzolanic reactions (Rogers et al. 2000; Khattab et al. 2007). The long-term performance include improvements in the immediate reduction in plasticity (Bell and Coulthard 1990), increase in the unconfined compressive strength (Thyagaraj et al. 2012), and reduction in swell (Mateos 1964; Bhasin et al. 1978; Akbulut and Arasan 2010).

Zhao, et al. (Zhao, 2015) state that a large amount of Ca2+Ca2+ generated by lime dissolved in water can exchange other cations absorbed by smectite clay. This can reduce the swelling of the smectite clay. Diamond and other researchers proved that pozzolanic reaction is another significant cause for the lime reacting with soils of high clay content. The ions Ca2+Ca2+, SiO2−3SiO32−, and Al2O2−3Al2O32− from dissolved clay particles in a high pH environment form calcium silicate hydrate (CSH) and calcium aluminum silicate hydrate (CAH) (Diamond and Kinter 1965; Boardman et al. 2001). As the time increases the reaction adds to the later increase in strength of the expansive clay (Bell 1996; Prakash et al. 1989, Rao and Shivananda 2005).

The microstructure of the clay can be improved by Flocculation. Flocculation leads to agglomeration by making the soil particles stick to each other forming larger clusters (Bell 1996; Boardman et al. 2001; Cuisinier et al. 2011; Al-Mukhtar et al. 2012). As per Mitchell and Soga large ion concentration in a high pH environment decreases the thickness of the electrical double layer. This leads to the flocculation of the clay particles (Mitchell and Soga 2005). As per Zhao et al (Zhao, 2015) the compounds Ca(OH)2Ca(OH)2 and Mg(OH)2Mg(OH)2 react with CO2CO2 in the air and form solid particles. These particles contain high strength compounds including CaCO3CaCO3 and MgCO3MgCO3.

As per Udoeyo et al. Limestone dust combines with the native silica and alumina in the clay soil to form the cementitious compounds that bind inert particles, thus improving some of the soil’s characteristics. The pozzolanic reactions can be described as follows (Udoeyo et al, 2011):

CaO+H2O→Ca(OH)2Ca(OH)2→Ca2++2[OH]−Ca2++2[OH]−+SiO2 (silica)→CSH (gel)Ca2++2[OH]−+Al2O3 (alumina)→CAH (gel)

CaO+H2O→Ca(OH)2Ca(OH)2→Ca2++2[OH]−Ca2++2[OH]−+SiO2 (silica)→CSH (gel)Ca2++2[OH]−+Al2O3 (alumina)→CAH (gel)CaO+H2O→Ca(OH)2Ca(OH)2→Ca2++2[OH]-Ca2++2[OH]-+SiO2 (silica)→CSH (gel)Ca2++2[OH]-+Al2O3 (alumina)→CAH (gel)

LIMITATIONS OF THIS STUDY

The results of this study are limited to the materials tested in this research. More materials need to be tested to increase the scope of this study. The designs are limited for educational purpose only. For real life designs, the concerned parties must get an approval of a licensed professional engineer.

CHAPTER 7

CONCLUSIONS

The following are the conclusions.

1. The influence of the structural number on subbase thickness is given in a linear relationship as shown in the following equation ($y = 6.25x – 5.10$). The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2, traffic 0.05 million standard axles, Subbase MR 4.5 Ksi, Delta PSI 0.05, HMA surface course 1.0 inch, crushed stone base course 4.0 inches.
2. The influence of change in the serviceability index on subbase thickness is given in a nonlinear relationship as shown in the following equation ($y = 22.77\ e\text{-}0.0298x$). The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2 traffic 1.0 million standard axles, MR 4.5 Ksi, HMA surface course 3.0 inches, crushed stone base course 6.0 inches.
3. The influence of resilient modulus of subbase on subbase thickness is given in a nonlinear relationship as shown in the following equation ($y = 36.313\ e\text{-}0.068x$). The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.5 traffic 5.0 million standard axles, Delta PSI 0.05, HMA surface course 3.5 inches, crushed stone base course 6.0 inches.

4. The influence of resilient modulus of subbase on subbase thickness is given in a nonlinear relationship as shown in the following equation (y = 35.541 e-0.111x). The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.2 traffic 0.5 million standard axles, Delta PSI 0.05, HMA surface course 2.5 inches, crushed stone base course 4.0 inches.
5. The influence of change in the serviceability index on subbase thickness is given in a nonlinear relationship as shown in the following equation (y = 32.873 e-0.308x). The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 5.0 million standard axles, MR 4.5 Ksi, HMA surface course 3.5 inches, crushed stone base course 6.0 inches.
6. The influence of change in the serviceability index on subbase thickness is given in a nonlinear relationship as shown in the following equation (y = 59.771 e-0.301x). The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.35 traffic 10.0 million standard axles, MR 4.5 Ksi, HMA surface course 4.0 inches, lime treated base course 6.0 inches.
7. The influence of resilient modulus of subbase on subbase thickness is given in a nonlinear relationship as shown in the following equation (y = 26.806 e-0.049x). The relationship is based on the following values: Reliability 0.95, Standard Deviation 0.6 traffic 1.0 million standard axles, Delta PSI 1.5, place-recycled mix surface course 3.0 inches, lime treated base course 6.0 inches.

8. Table 7.1 shows the effect of temperature on the subbase course design thickness for 1, 5, and 30 million standard axle traffic. The data in this table is based on using Design 1 parameters, for 3 inches hot mix asphalt surface course and 6 inches crushed stone base course. The subbase course thicknesses depend on the following values: Reliability 0.95, Standard Deviation 0.5, MR 8.3 Ksi, and Delta PSI 2.5.

Traffic, Standard Axles, Millions	Subbase course Design Thickness, inches				
	AASHTO	Present Study			
	Mean Air Temperature, F				
	68	76.8	83	87	90
1.0	9.625	14.538	15.066	15.944	16.295
5.0	15.250	20.163	20.691	21.569	21.920
30.0	20.250	25.163	25.691	26.569	26.920

Table 7.1 Effect of temperature on the subbase course design thickness.

The above table demonstrates the dissertation major concept. However, the fifteen design thicknesses of this table constitute a small part of the 9600 designs system. The AASHTO design thickness are insensitive to temperature changes. The above table testifies that the limitation of the American Association of State Highway and Transportation Officials, the national design procedure was broken. This is a valuable contribution to the knowledge base.

Expansive soils can be stabilized with optimum percentage of limestone dust. The effect of temperature on the asphalt concrete stiffness was determined. An innovative design procedure was developed and 9600 pavement structures covering a wide variety of variables consisting of 4 standard deviations, 10 traffic values, 5 MR values, 6 Delta PSI values, 2 surface course materials, 2 base course materials and 2 subbase materials were designed.

The limitation of the state-of-the-art design procedure, AASHTO was lifted by developing an innovative design strategy.

The innovative design results with those of AASHTO results were compared and the differences were critiqued.

The designs capable of handling the temperature variations coupled with additive working to improve the weak soils performance in Pennsylvania and the critique on the results are new contributions from this research.

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APPENDIX A

PAVEMENT SECTIONS DESIGN

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.2	0.05	4.5	0.05	2.5	1	4	11.013	1	4	16.018	1	4	9.013	1	4	13.109	0.178	0.081
95	0.2	0.05	4.5	1	2.45	1	4	10.700	1	4	15.564	1	4	8.700	1	4	12.655	0.178	0.081
95	0.2	0.05	4.5	1.5	2.4	1	4	10.388	1	4	15.109	1	4	8.388	1	4	12.200	0.178	0.081
95	0.2	0.05	4.5	2	2.35	1	4	10.075	1	4	14.655	1	4	8.075	1	4	11.745	0.178	0.081
95	0.2	0.05	4.5	2.5	2.3	1	4	9.763	1	4	14.200	1	4	7.763	1	4	11.291	0.178	0.081
95	0.2	0.05	4.5	3	2.25	1	4	9.450	1	4	13.745	1	4	7.450	1	4	10.836	0.178	0.081
95	0.2	0.05	6	0.05	2.05	1	4	8.200	1	4	11.927	1	4	6.200	1	4	9.018	0.178	0.081
95	0.2	0.05	6	1	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.2	0.05	6	1.5	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.2	0.05	6	2	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.2	0.05	6	2.5	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.2	0.05	6	3	1.95	1	4	7.575	1	4	11.018	1	4	5.575	1	4	8.109	0.178	0.081
95	0.2	0.05	8.3	0.05	1.85	1	4	6.950	1	4	10.109	1	4	4.950	1	4	7.200	0.178	0.081
95	0.2	0.05	8.3	1	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.2	0.05	8.3	1.5	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.2	0.05	8.3	2	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.2	0.05	8.3	2.5	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.2	0.05	8.3	3	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.2	0.05	10.5	0.05	1.7	1	4	6.013	1	4	8.745	1	4	4.013	1	4	5.836	0.178	0.081
95	0.2	0.05	10.5	1	1.7	1	4	6.013	1	4	8.745	1	4	4.013	1	4	5.836	0.178	0.081
95	0.2	0.05	10.5	1.5	1.7	1	4	6.013	1	4	8.745	1	4	4.013	1	4	5.836	0.178	0.081
95	0.2	0.05	10.5	2	1.7	1	4	6.013	1	4	8.745	1	4	4.013	1	4	5.836	0.178	0.081
95	0.2	0.05	10.5	2.5	1.7	1	4	6.013	1	4	8.745	1	4	4.013	1	4	5.836	0.178	0.081
95	0.2	0.05	10.5	3	1.7	1	4	6.013	1	4	8.745	1	4	4.013	1	4	5.836	0.178	0.081
95	0.2	0.05	14.5	0.05	1.5	1	4	4.763	1	4	6.927	1	4	2.763	1	4	4.018	0.178	0.081
95	0.2	0.05	14.5	1	1.5	1	4	4.763	1	4	6.927	1	4	2.763	1	4	4.018	0.178	0.081
95	0.2	0.05	14.5	1.5	1.5	1	4	4.763	1	4	6.927	1	4	2.763	1	4	4.018	0.178	0.081
95	0.2	0.05	14.5	2	1.5	1	4	4.763	1	4	6.927	1	4	2.763	1	4	4.018	0.178	0.081
95	0.2	0.05	14.5	2.5	1.5	1	4	4.763	1	4	6.927	1	4	2.763	1	4	4.018	0.178	0.081
95	0.2	0.05	14.5	3	1.5	1	4	4.763	1	4	6.927	1	4	2.763	1	4	4.018	0.178	0.081
95	0.2	0.1	4.5	0.05	3.45	2	4	15.838	2	4	23.036	2	4	13.838	2	4	20.127	0.178	0.081
95	0.2	0.1	4.5	1	3.2	2	4	14.275	2	4	20.764	2	4	12.275	2	4	17.855	0.178	0.081
95	0.2	0.1	4.5	1.5	2.9	2	4	12.400	2	4	18.036	2	4	10.400	2	4	15.127	0.178	0.081
95	0.2	0.1	4.5	2	2.8	2	4	11.775	2	4	17.127	2	4	9.775	2	4	14.218	0.178	0.081
95	0.2	0.1	4.5	2.5	2.7	2	4	11.150	2	4	16.218	2	4	9.150	2	4	13.309	0.178	0.081
95	0.2	0.1	4.5	3	2.6	2	4	10.525	2	4	15.309	2	4	8.525	2	4	12.400	0.178	0.081
95	0.2	0.1	6	0.05	2.55	2	4	10.213	2	4	14.855	2	4	8.213	2	4	11.945	0.178	0.081
95	0.2	0.1	6	1	2.4	2	4	9.275	2	4	13.491	2	4	7.275	2	4	10.582	0.178	0.081
95	0.2	0.1	6	1.5	2.4	2	4	9.275	2	4	13.491	2	4	7.275	2	4	10.582	0.178	0.081
95	0.2	0.1	6	2	2.3	2	4	8.650	2	4	12.582	2	4	6.650	2	4	9.673	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.2	0.1	6	2.5	2.2	2	4	8.025	2	4	11.673	2	4	6.025	2	4	8.764	0.178	0.081
95	0.2	0.1	6	3	2.15	2	4	7.713	2	4	11.218	2	4	5.713	2	4	8.309	0.178	0.081
95	0.2	0.1	8.3	0.05	2.1	2	4	7.400	2	4	10.764	2	4	5.400	2	4	7.855	0.178	0.081
95	0.2	0.1	8.3	1	2.1	2	4	7.400	2	4	10.764	2	4	5.400	2	4	7.855	0.178	0.081
95	0.2	0.1	8.3	1.5	2.1	2	4	7.400	2	4	10.764	2	4	5.400	2	4	7.855	0.178	0.081
95	0.2	0.1	8.3	2	2.1	2	4	7.400	2	4	10.764	2	4	5.400	2	4	7.855	0.178	0.081
95	0.2	0.1	8.3	2.5	2.1	2	4	7.400	2	4	10.764	2	4	5.400	2	4	7.855	0.178	0.081
95	0.2	0.1	8.3	3	2.05	2	4	7.088	2	4	10.309	2	4	5.088	2	4	7.400	0.178	0.081
95	0.2	0.1	10.5	0.05	2.05	2	4	7.088	2	4	10.309	2	4	5.088	2	4	7.400	0.178	0.081
95	0.2	0.1	10.5	1	2	2	4	6.775	2	4	9.855	2	4	4.775	2	4	6.945	0.178	0.081
95	0.2	0.1	10.5	1.5	2	2	4	6.775	2	4	9.855	2	4	4.775	2	4	6.945	0.178	0.081
95	0.2	0.1	10.5	2	2	2	4	6.775	2	4	9.855	2	4	4.775	2	4	6.945	0.178	0.081
95	0.2	0.1	10.5	2.5	2	2	4	6.775	2	4	9.855	2	4	4.775	2	4	6.945	0.178	0.081
95	0.2	0.1	10.5	3	2	2	4	6.775	2	4	9.855	2	4	4.775	2	4	6.945	0.178	0.081
95	0.2	0.1	14.5	0.05	1.7	2	4	4.900	2	4	7.127	2	4	2.900	2	4	4.218	0.178	0.081
95	0.2	0.1	14.5	1	1.7	2	4	4.900	2	4	7.127	2	4	2.900	2	4	4.218	0.178	0.081
95	0.2	0.1	14.5	1.5	1.7	2	4	4.900	2	4	7.127	2	4	2.900	2	4	4.218	0.178	0.081
95	0.2	0.1	14.5	2	1.7	2	4	4.900	2	4	7.127	2	4	2.900	2	4	4.218	0.178	0.081
95	0.2	0.1	14.5	2.5	1.7	2	4	4.900	2	4	7.127	2	4	2.900	2	4	4.218	0.178	0.081
95	0.2	0.1	14.5	3	1.7	2	4	4.900	2	4	7.127	2	4	2.900	2	4	4.218	0.178	0.081
95	0.2	0.3	4.5	0.05	4.5	2.5	4	21.844	2.5	4	31.773	2.5	4	19.844	2.5	4	28.864	0.178	0.081
95	0.2	0.3	4.5	1	3.9	2.5	4	18.094	2.5	4	26.318	2.5	4	16.094	2.5	4	23.409	0.178	0.081
95	0.2	0.3	4.5	1.5	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.2	0.3	4.5	2	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.2	0.3	4.5	2.5	3.1	2.5	4	13.094	2.5	4	19.045	2.5	4	11.094	2.5	4	16.136	0.178	0.081
95	0.2	0.3	4.5	3	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.2	0.3	6	0.05	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.2	0.3	6	1	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.2	0.3	6	1.5	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.2	0.3	6	2	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.2	0.3	6	2.5	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.2	0.3	6	3	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.2	0.3	8.3	0.05	2.75	2.5	4	10.906	2.5	4	15.864	2.5	4	8.906	2.5	4	12.955	0.178	0.081
95	0.2	0.3	8.3	1	2.7	2.5	4	10.594	2.5	4	15.409	2.5	4	8.594	2.5	4	12.500	0.178	0.081
95	0.2	0.3	8.3	1.5	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.2	0.3	8.3	2	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.2	0.3	8.3	2.5	2.5	2.5	4	9.344	2.5	4	13.591	2.5	4	7.344	2.5	4	10.682	0.178	0.081
95	0.2	0.3	8.3	3	2.4	2.5	4	8.719	2.5	4	12.682	2.5	4	6.719	2.5	4	9.773	0.178	0.081
95	0.2	0.3	10.5	0.05	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.2	0.3	10.5	1	2.5	2.5	4	9.344	2.5	4	13.591	2.5	4	7.344	2.5	4	10.682	0.178	0.081
95	0.2	0.3	10.5	1.5	2.5	2.5	4	9.344	2.5	4	13.591	2.5	4	7.344	2.5	4	10.682	0.178	0.081
95	0.2	0.3	10.5	2	2.4	2.5	4	8.719	2.5	4	12.682	2.5	4	6.719	2.5	4	9.773	0.178	0.081
95	0.2	0.3	10.5	2.5	2.3	2.5	4	8.094	2.5	4	11.773	2.5	4	6.094	2.5	4	8.864	0.178	0.081
95	0.2	0.3	10.5	3	2.25	2.5	4	7.781	2.5	4	11.318	2.5	4	5.781	2.5	4	8.409	0.178	0.081
95	0.2	0.3	14.5	0.05	2.05	2.5	4	6.531	2.5	4	9.500	2.5	4	4.531	2.5	4	6.591	0.178	0.081
95	0.2	0.3	14.5	1	2	2.5	4	6.219	2.5	4	9.045	2.5	4	4.219	2.5	4	6.136	0.178	0.081
95	0.2	0.3	14.5	1.5	2	2.5	4	6.219	2.5	4	9.045	2.5	4	4.219	2.5	4	6.136	0.178	0.081
95	0.2	0.3	14.5	2	2	2.5	4	6.219	2.5	4	9.045	2.5	4	4.219	2.5	4	6.136	0.178	0.081
95	0.2	0.3	14.5	2.5	2	2.5	4	6.219	2.5	4	9.045	2.5	4	4.219	2.5	4	6.136	0.178	0.081
95	0.2	0.3	14.5	3	1.95	2.5	4	5.906	2.5	4	8.591	2.5	4	3.906	2.5	4	5.682	0.178	0.081
95	0.2	0.5	4.5	0.05	4.7	2.5	4	23.094	2.5	4	33.591	2.5	4	21.094	2.5	4	30.682	0.178	0.081
95	0.2	0.5	4.5	1	4.1	2.5	4	19.344	2.5	4	28.136	2.5	4	17.344	2.5	4	25.227	0.178	0.081
95	0.2	0.5	4.5	1.5	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.2	0.5	4.5	2	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.2	0.5	4.5	2.5	3.15	2.5	4	13.406	2.5	4	19.500	2.5	4	11.406	2.5	4	16.591	0.178	0.081
95	0.2	0.5	4.5	3	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.2	0.5	6	0.05	4	2.5	4	18.719	2.5	4	27.227	2.5	4	16.719	2.5	4	24.318	0.178	0.081
95	0.2	0.5	6	1	3.9	2.5	4	18.094	2.5	4	26.318	2.5	4	16.094	2.5	4	23.409	0.178	0.081
95	0.2	0.5	6	1.5	3.8	2.5	4	17.469	2.5	4	25.409	2.5	4	15.469	2.5	4	22.500	0.178	0.081
95	0.2	0.5	6	2	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.2	0.5	6	2.5	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.2	0.5	6	3	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.2	0.5	8.3	0.05	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.2	0.5	8.3	1	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.2	0.5	8.3	1.5	2.9	2.5	4	11.844	2.5	4	17.227	2.5	4	9.844	2.5	4	14.318	0.178	0.081
95	0.2	0.5	8.3	2	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.2	0.5	8.3	2.5	2.7	2.5	4	10.594	2.5	4	15.409	2.5	4	8.594	2.5	4	12.500	0.178	0.081
95	0.2	0.5	8.3	3	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.2	0.5	10.5	0.05	3.1	2.5	4	13.094	2.5	4	19.045	2.5	4	11.094	2.5	4	16.136	0.178	0.081
95	0.2	0.5	10.5	1	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.2	0.5	10.5	1.5	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.2	0.5	10.5	2	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.2	0.5	10.5	2.5	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.2	0.5	10.5	3	2.5	2.5	4	9.344	2.5	4	13.591	2.5	4	7.344	2.5	4	10.682	0.178	0.081
95	0.2	0.5	14.5	0.05	2.3	2.5	4	8.094	2.5	4	11.773	2.5	4	6.094	2.5	4	8.864	0.178	0.081
95	0.2	0.5	14.5	1	2.3	2.5	4	8.094	2.5	4	11.773	2.5	4	6.094	2.5	4	8.864	0.178	0.081
95	0.2	0.5	14.5	1.5	2.2	2.5	4	7.469	2.5	4	10.864	2.5	4	5.469	2.5	4	7.955	0.178	0.081
95	0.2	0.5	14.5	2	2.2	2.5	4	7.469	2.5	4	10.864	2.5	4	5.469	2.5	4	7.955	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.2	0.5	14.5	2.5	2.1	2.5	4	6.844	2.5	4	9.955	2.5	4	4.844	2.5	4	7.045	0.178	0.081
95	0.2	0.5	14.5	3	2.1	2.5	4	6.844	2.5	4	9.955	2.5	4	4.844	2.5	4	7.045	0.178	0.081
95	0.2	1	4.5	0.05	5.1	3	6	23.288	3	6	33.873	3	6	20.288	3	6	29.509	0.178	0.081
95	0.2	1	4.5	1	4.4	3	6	18.913	3	6	27.509	3	6	15.913	3	6	23.145	0.178	0.081
95	0.2	1	4.5	1.5	4	3	6	16.413	3	6	23.873	3	6	13.413	3	6	19.509	0.178	0.081
95	0.2	1	4.5	2	3.6	3	6	13.913	3	6	20.236	3	6	10.913	3	6	15.873	0.178	0.081
95	0.2	1	4.5	2.5	3.3	3	6	12.038	3	6	17.509	3	6	9.038	3	6	13.145	0.178	0.081
95	0.2	1	4.5	3	3.1	3	6	10.788	3	6	15.691	3	6	7.788	3	6	11.327	0.178	0.081
95	0.2	1	6	0.05	5.1	3	6	23.288	3	6	33.873	3	6	20.288	3	6	29.509	0.178	0.081
95	0.2	1	6	1	5	3	6	22.663	3	6	32.964	3	6	19.663	3	6	28.600	0.178	0.081
95	0.2	1	6	1.5	4.9	3	6	22.038	3	6	32.055	3	6	19.038	3	6	27.691	0.178	0.081
95	0.2	1	6	2	4.7	3	6	20.788	3	6	30.236	3	6	17.788	3	6	25.873	0.178	0.081
95	0.2	1	6	2.5	4.5	3	6	19.538	3	6	28.418	3	6	16.538	3	6	24.055	0.178	0.081
95	0.2	1	6	3	4.3	3	6	18.288	3	6	26.600	3	6	15.288	3	6	22.236	0.178	0.081
95	0.2	1	8.3	0.05	4.15	3	6	17.350	3	6	25.236	3	6	14.350	3	6	20.873	0.178	0.081
95	0.2	1	8.3	1	3.8	3	6	15.163	3	6	22.055	3	6	12.163	3	6	17.691	0.178	0.081
95	0.2	1	8.3	1.5	3.5	3	6	13.288	3	6	19.327	3	6	10.288	3	6	14.964	0.178	0.081
95	0.2	1	8.3	2	3.3	3	6	12.038	3	6	17.509	3	6	9.038	3	6	13.145	0.178	0.081
95	0.2	1	8.3	2.5	3.1	3	6	10.788	3	6	15.691	3	6	7.788	3	6	11.327	0.178	0.081
95	0.2	1	8.3	3	2.9	3	6	9.538	3	6	13.873	3	6	6.538	3	6	9.509	0.178	0.081
95	0.2	1	10.5	0.05	3.95	3	6	16.100	3	6	23.418	3	6	13.100	3	6	19.055	0.178	0.081
95	0.2	1	10.5	1	3.7	3	6	14.538	3	6	21.145	3	6	11.538	3	6	16.782	0.178	0.081
95	0.2	1	10.5	1.5	3.5	3	6	13.288	3	6	19.327	3	6	10.288	3	6	14.964	0.178	0.081
95	0.2	1	10.5	2	3.3	3	6	12.038	3	6	17.509	3	6	9.038	3	6	13.145	0.178	0.081
95	0.2	1	10.5	2.5	3.1	3	6	10.788	3	6	15.691	3	6	7.788	3	6	11.327	0.178	0.081
95	0.2	1	10.5	3	2.8	3	6	8.913	3	6	12.964	3	6	5.913	3	6	8.600	0.178	0.081
95	0.2	1	14.5	0.05	3	3	6	10.163	3	6	14.782	3	6	7.163	3	6	10.418	0.178	0.081
95	0.2	1	14.5	1	2.8	3	6	8.913	3	6	12.964	3	6	5.913	3	6	8.600	0.178	0.081
95	0.2	1	14.5	1.5	2.7	3	6	8.288	3	6	12.055	3	6	5.288	3	6	7.691	0.178	0.081
95	0.2	1	14.5	2	2.6	3	6	7.663	3	6	11.145	3	6	4.663	3	6	6.782	0.178	0.081
95	0.2	1	14.5	2.5	2.5	3	6	7.038	3	6	10.236	3	6	4.038	3	6	5.873	0.178	0.081
95	0.2	1	14.5	3	2.5	3	6	7.038	3	6	10.236	3	6	4.038	3	6	5.873	0.178	0.081
95	0.2	3	4.5	0.05	6	3.5	6	28.356	3.5	6	41.245	3.5	6	25.356	3.5	6	36.882	0.178	0.081
95	0.2	3	4.5	1	5.1	3.5	6	22.731	3.5	6	33.064	3.5	6	19.731	3.5	6	28.700	0.178	0.081
95	0.2	3	4.5	1.5	4.7	3.5	6	20.231	3.5	6	29.427	3.5	6	17.231	3.5	6	25.064	0.178	0.081
95	0.2	3	4.5	2	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.2	3	4.5	2.5	3.8	3.5	6	14.606	3.5	6	21.245	3.5	6	11.606	3.5	6	16.882	0.178	0.081
95	0.2	3	4.5	3	3.6	3.5	6	13.356	3.5	6	19.427	3.5	6	10.356	3.5	6	15.064	0.178	0.081
95	0.2	3	6	0.05	5.8	3.5	6	27.106	3.5	6	39.427	3.5	6	24.106	3.5	6	35.064	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.2	3	6	1	4.9	3.5	6	21.481	3.5	6	31.245	3.5	6	18.481	3.5	6	26.882	0.178	0.081
95	0.2	3	6	1.5	4.5	3.5	6	18.981	3.5	6	27.609	3.5	6	15.981	3.5	6	23.245	0.178	0.081
95	0.2	3	6	2	4.2	3.5	6	17.106	3.5	6	24.882	3.5	6	14.106	3.5	6	20.518	0.178	0.081
95	0.2	3	6	2.5	3.8	3.5	6	14.606	3.5	6	21.245	3.5	6	11.606	3.5	6	16.882	0.178	0.081
95	0.2	3	6	3	3.9	3.5	6	15.231	3.5	6	22.155	3.5	6	12.231	3.5	6	17.791	0.178	0.081
95	0.2	3	8.3	0.05	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.2	3	8.3	1	4.4	3.5	6	18.356	3.5	6	26.700	3.5	6	15.356	3.5	6	22.336	0.178	0.081
95	0.2	3	8.3	1.5	3.9	3.5	6	15.231	3.5	6	22.155	3.5	6	12.231	3.5	6	17.791	0.178	0.081
95	0.2	3	8.3	2	3.6	3.5	6	13.356	3.5	6	19.427	3.5	6	10.356	3.5	6	15.064	0.178	0.081
95	0.2	3	8.3	2.5	3.4	3.5	6	12.106	3.5	6	17.609	3.5	6	9.106	3.5	6	13.245	0.178	0.081
95	0.2	3	8.3	3	3.3	3.5	6	11.481	3.5	6	16.700	3.5	6	8.481	3.5	6	12.336	0.178	0.081
95	0.2	3	10.5	0.05	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.2	3	10.5	1	4.4	3.5	6	18.356	3.5	6	26.700	3.5	6	15.356	3.5	6	22.336	0.178	0.081
95	0.2	3	10.5	1.5	3.9	3.5	6	15.231	3.5	6	22.155	3.5	6	12.231	3.5	6	17.791	0.178	0.081
95	0.2	3	10.5	2	3.6	3.5	6	13.356	3.5	6	19.427	3.5	6	10.356	3.5	6	15.064	0.178	0.081
95	0.2	3	10.5	2.5	3.4	3.5	6	12.106	3.5	6	17.609	3.5	6	9.106	3.5	6	13.245	0.178	0.081
95	0.2	3	10.5	3	3.1	3.5	6	10.231	3.5	6	14.882	3.5	6	7.231	3.5	6	10.518	0.178	0.081
95	0.2	3	14.5	0.05	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.2	3	14.5	1	3.7	3.5	6	13.981	3.5	6	20.336	3.5	6	10.981	3.5	6	15.973	0.178	0.081
95	0.2	3	14.5	1.5	3.3	3.5	6	11.481	3.5	6	16.700	3.5	6	8.481	3.5	6	12.336	0.178	0.081
95	0.2	3	14.5	2	3.1	3.5	6	10.231	3.5	6	14.882	3.5	6	7.231	3.5	6	10.518	0.178	0.081
95	0.2	3	14.5	2.5	2.9	3.5	6	8.981	3.5	6	13.064	3.5	6	5.981	3.5	6	8.700	0.178	0.081
95	0.2	3	14.5	3	2.8	3.5	6	8.356	3.5	6	12.155	3.5	6	5.356	3.5	6	7.791	0.178	0.081
95	0.2	5	4.5	0.05	7	3.5	6	34.606	3.5	6	50.336	3.5	6	31.606	3.5	6	45.973	0.178	0.081
95	0.2	5	4.5	1	6	3.5	6	28.356	3.5	6	41.245	3.5	6	25.356	3.5	6	36.882	0.178	0.081
95	0.2	5	4.5	1.5	5.5	3.5	6	25.231	3.5	6	36.700	3.5	6	22.231	3.5	6	32.336	0.178	0.081
95	0.2	5	4.5	2	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.2	5	4.5	2.5	4.4	3.5	6	18.356	3.5	6	26.700	3.5	6	15.356	3.5	6	22.336	0.178	0.081
95	0.2	5	4.5	3	4.1	3.5	6	16.481	3.5	6	23.973	3.5	6	13.481	3.5	6	19.609	0.178	0.081
95	0.2	5	6	0.05	6.5	3.5	6	31.481	3.5	6	45.791	3.5	6	28.481	3.5	6	41.427	0.178	0.081
95	0.2	5	6	1	4.8	3.5	6	20.856	3.5	6	30.336	3.5	6	17.856	3.5	6	25.973	0.178	0.081
95	0.2	5	6	1.5	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.2	5	6	2	3.6	3.5	6	13.356	3.5	6	19.427	3.5	6	10.356	3.5	6	15.064	0.178	0.081
95	0.2	5	6	2.5	3.3	3.5	6	11.481	3.5	6	16.700	3.5	6	8.481	3.5	6	12.336	0.178	0.081
95	0.2	5	6	3	3.95	3.5	6	15.544	3.5	6	22.609	3.5	6	12.544	3.5	6	18.245	0.178	0.081
95	0.2	5	8.3	0.05	6	3.5	6	28.356	3.5	6	41.245	3.5	6	25.356	3.5	6	36.882	0.178	0.081
95	0.2	5	8.3	1	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.2	5	8.3	1.5	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.2	5	8.3	2	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.2	5	8.3	2.5	3.8	3.5	6	14.606	3.5	6	21.245	3.5	6	11.606	3.5	6	16.882	0.178	0.081
95	0.2	5	8.3	3	3.55	3.5	6	13.044	3.5	6	18.973	3.5	6	10.044	3.5	6	14.609	0.178	0.081
95	0.2	5	10.5	0.05	5.9	3.5	6	27.731	3.5	6	40.336	3.5	6	24.731	3.5	6	35.973	0.178	0.081
95	0.2	5	10.5	1	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.2	5	10.5	1.5	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.2	5	10.5	2	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.2	5	10.5	2.5	3.7	3.5	6	13.981	3.5	6	20.336	3.5	6	10.981	3.5	6	15.973	0.178	0.081
95	0.2	5	10.5	3	3.45	3.5	6	12.419	3.5	6	18.064	3.5	6	9.419	3.5	6	13.700	0.178	0.081
95	0.2	5	14.5	0.05	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.2	5	14.5	1	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.2	5	14.5	1.5	3.8	3.5	6	14.606	3.5	6	21.245	3.5	6	11.606	3.5	6	16.882	0.178	0.081
95	0.2	5	14.5	2	3.5	3.5	6	12.731	3.5	6	18.518	3.5	6	9.731	3.5	6	14.155	0.178	0.081
95	0.2	5	14.5	2.5	3.3	3.5	6	11.481	3.5	6	16.700	3.5	6	8.481	3.5	6	12.336	0.178	0.081
95	0.2	5	14.5	3	3.05	3.5	6	9.919	3.5	6	14.427	3.5	6	6.919	3.5	6	10.064	0.178	0.081
95	0.2	10	4.5	0.05	7.4	4	6	36.550	4	6	53.164	4	6	33.550	4	6	48.800	0.178	0.081
95	0.2	10	4.5	1	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.2	10	4.5	1.5	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.2	10	4.5	2	5.1	4	6	22.175	4	6	32.255	4	6	19.175	4	6	27.891	0.178	0.081
95	0.2	10	4.5	2.5	4.6	4	6	19.050	4	6	27.709	4	6	16.050	4	6	23.345	0.178	0.081
95	0.2	10	4.5	3	4.3	4	6	17.175	4	6	24.982	4	6	14.175	4	6	20.618	0.178	0.081
95	0.2	10	6	0.05	6.9	4	6	33.425	4	6	48.618	4	6	30.425	4	6	44.255	0.178	0.081
95	0.2	10	6	1	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081
95	0.2	10	6	1.5	4.8	4	6	20.300	4	6	29.527	4	6	17.300	4	6	25.164	0.178	0.081
95	0.2	10	6	2	4.6	4	6	19.050	4	6	27.709	4	6	16.050	4	6	23.345	0.178	0.081
95	0.2	10	6	2.5	4.4	4	6	17.800	4	6	25.891	4	6	14.800	4	6	21.527	0.178	0.081
95	0.2	10	6	3	4.2	4	6	16.550	4	6	24.073	4	6	13.550	4	6	19.709	0.178	0.081
95	0.2	10	8.3	0.05	6.4	4	6	30.300	4	6	44.073	4	6	27.300	4	6	39.709	0.178	0.081
95	0.2	10	8.3	1	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.2	10	8.3	1.5	4.6	4	6	19.050	4	6	27.709	4	6	16.050	4	6	23.345	0.178	0.081
95	0.2	10	8.3	2	4.2	4	6	16.550	4	6	24.073	4	6	13.550	4	6	19.709	0.178	0.081
95	0.2	10	8.3	2.5	4	4	6	15.300	4	6	22.255	4	6	12.300	4	6	17.891	0.178	0.081
95	0.2	10	8.3	3	3.8	4	6	14.050	4	6	20.436	4	6	11.050	4	6	16.073	0.178	0.081
95	0.2	10	10.5	0.05	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.2	10	10.5	1	4.8	4	6	20.300	4	6	29.527	4	6	17.300	4	6	25.164	0.178	0.081
95	0.2	10	10.5	1.5	4.3	4	6	17.175	4	6	24.982	4	6	14.175	4	6	20.618	0.178	0.081
95	0.2	10	10.5	2	4	4	6	15.300	4	6	22.255	4	6	12.300	4	6	17.891	0.178	0.081
95	0.2	10	10.5	2.5	3.8	4	6	14.050	4	6	20.436	4	6	11.050	4	6	16.073	0.178	0.081
95	0.2	10	10.5	3	3.6	4	6	12.800	4	6	18.618	4	6	9.800	4	6	14.255	0.178	0.081
95	0.2	10	14.5	0.05	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.2	10	14.5	1	4.5	4	6	18.425	4	6	26.800	4	6	15.425	4	6	22.436	0.178	0.081
95	0.2	10	14.5	1.5	4	4	6	15.300	4	6	22.255	4	6	12.300	4	6	17.891	0.178	0.081
95	0.2	10	14.5	2	3.6	4	6	12.800	4	6	18.618	4	6	9.800	4	6	14.255	0.178	0.081
95	0.2	10	14.5	2.5	3.4	4	6	11.550	4	6	16.800	4	6	8.550	4	6	12.436	0.178	0.081
95	0.2	10	14.5	3	3.2	4	6	10.300	4	6	14.982	4	6	7.300	4	6	10.618	0.178	0.081
95	0.2	30	4.5	0.05	9	4	6	46.550	4	6	67.709	4	6	43.550	4	6	63.345	0.178	0.081
95	0.2	30	4.5	1	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.2	30	4.5	1.5	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.2	30	4.5	2	5.8	4	6	26.550	4	6	38.618	4	6	23.550	4	6	34.255	0.178	0.081
95	0.2	30	4.5	2.5	5.4	4	6	24.050	4	6	34.982	4	6	21.050	4	6	30.618	0.178	0.081
95	0.2	30	4.5	3	5.1	4	6	22.175	4	6	32.255	4	6	19.175	4	6	27.891	0.178	0.081
95	0.2	30	6	0.05	8.4	4	6	42.800	4	6	62.255	4	6	39.800	4	6	57.891	0.178	0.081
95	0.2	30	6	1	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.2	30	6	1.5	6.3	4	6	29.675	4	6	43.164	4	6	26.675	4	6	38.800	0.178	0.081
95	0.2	30	6	2	5.8	4	6	26.550	4	6	38.618	4	6	23.550	4	6	34.255	0.178	0.081
95	0.2	30	6	2.5	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081
95	0.2	30	6	3	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.2	30	8.3	0.05	8	4	6	40.300	4	6	58.618	4	6	37.300	4	6	54.255	0.178	0.081
95	0.2	30	8.3	1	6.3	4	6	29.675	4	6	43.164	4	6	26.675	4	6	38.800	0.178	0.081
95	0.2	30	8.3	1.5	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.2	30	8.3	2	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.2	30	8.3	2.5	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.2	30	8.3	3	4.6	4	6	19.050	4	6	27.709	4	6	16.050	4	6	23.345	0.178	0.081
95	0.2	30	10.5	0.05	7.05	4	6	34.363	4	6	49.982	4	6	31.363	4	6	45.618	0.178	0.081
95	0.2	30	10.5	1	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.2	30	10.5	1.5	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.2	30	10.5	2	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.2	30	10.5	2.5	4.5	4	6	18.425	4	6	26.800	4	6	15.425	4	6	22.436	0.178	0.081
95	0.2	30	10.5	3	4.2	4	6	16.550	4	6	24.073	4	6	13.550	4	6	19.709	0.178	0.081
95	0.2	30	14.5	0.05	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.2	30	14.5	1	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.2	30	14.5	1.5	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.2	30	14.5	2	4.6	4	6	19.050	4	6	27.709	4	6	16.050	4	6	23.345	0.178	0.081
95	0.2	30	14.5	2.5	4.3	4	6	17.175	4	6	24.982	4	6	14.175	4	6	20.618	0.178	0.081
95	0.2	30	14.5	3	3.9	4	6	14.675	4	6	21.345	4	6	11.675	4	6	16.982	0.178	0.081
95	0.2	50	4.5	0.05	10	4	6	52.800	4	6	76.800	4	6	49.800	4	6	72.436	0.178	0.081
95	0.2	50	4.5	1	8.2	4	6	41.550	4	6	60.436	4	6	38.550	4	6	56.073	0.178	0.081
95	0.2	50	4.5	1.5	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.2	50	4.5	2	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.2	50	4.5	2.5	6.4	4	6	30.300	4	6	44.073	4	6	27.300	4	6	39.709	0.178	0.081
95	0.2	50	4.5	3	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.2	50	6	0.05	9.1	4	6	47.175	4	6	68.618	4	6	44.175	4	6	64.255	0.178	0.081
95	0.2	50	6	1	7.3	4	6	35.925	4	6	52.255	4	6	32.925	4	6	47.891	0.178	0.081
95	0.2	50	6	1.5	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.2	50	6	2	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.2	50	6	2.5	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.2	50	6	3	5.1	4	6	22.175	4	6	32.255	4	6	19.175	4	6	27.891	0.178	0.081
95	0.2	50	8.3	0.05	8	4	6	40.300	4	6	58.618	4	6	37.300	4	6	54.255	0.178	0.081
95	0.2	50	8.3	1	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.2	50	8.3	1.5	6.3	4	6	29.675	4	6	43.164	4	6	26.675	4	6	38.800	0.178	0.081
95	0.2	50	8.3	2	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.2	50	8.3	2.5	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.2	50	8.3	3	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.2	50	10.5	0.05	7.9	4	6	39.675	4	6	57.709	4	6	36.675	4	6	53.345	0.178	0.081
95	0.2	50	10.5	1	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.2	50	10.5	1.5	5.4	4	6	24.050	4	6	34.982	4	6	21.050	4	6	30.618	0.178	0.081
95	0.2	50	10.5	2	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.2	50	10.5	2.5	4.7	4	6	19.675	4	6	28.618	4	6	16.675	4	6	24.255	0.178	0.081
95	0.2	50	10.5	3	4.4	4	6	17.800	4	6	25.891	4	6	14.800	4	6	21.527	0.178	0.081
95	0.2	50	14.5	0.05	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.2	50	14.5	1	5.4	4	6	24.050	4	6	34.982	4	6	21.050	4	6	30.618	0.178	0.081
95	0.2	50	14.5	1.5	4.7	4	6	19.675	4	6	28.618	4	6	16.675	4	6	24.255	0.178	0.081
95	0.2	50	14.5	2	4.4	4	6	17.800	4	6	25.891	4	6	14.800	4	6	21.527	0.178	0.081
95	0.2	50	14.5	2.5	4.2	4	6	16.550	4	6	24.073	4	6	13.550	4	6	19.709	0.178	0.081
95	0.2	50	14.5	3	4.05	4	6	15.613	4	6	22.709	4	6	12.613	4	6	18.345	0.178	0.081
95	0.35	0.05	4.5	0.05	2.65	1	4	11.950	1	4	17.382	1	4	9.950	1	4	14.473	0.178	0.081
95	0.35	0.05	4.5	1	2.6	1	4	11.638	1	4	16.927	1	4	9.638	1	4	14.018	0.178	0.081
95	0.35	0.05	4.5	1.5	2.55	1	4	11.325	1	4	16.473	1	4	9.325	1	4	13.564	0.178	0.081
95	0.35	0.05	4.5	2	2.45	1	4	10.700	1	4	15.564	1	4	8.700	1	4	12.655	0.178	0.081
95	0.35	0.05	4.5	2.5	2.35	1	4	10.075	1	4	14.655	1	4	8.075	1	4	11.745	0.178	0.081
95	0.35	0.05	4.5	3	2.25	1	4	9.450	1	4	13.745	1	4	7.450	1	4	10.836	0.178	0.081
95	0.35	0.05	6	0.05	2.43	1	4	10.575	1	4	15.382	1	4	8.575	1	4	12.473	0.178	0.081
95	0.35	0.05	6	1	2.35	1	4	10.075	1	4	14.655	1	4	8.075	1	4	11.745	0.178	0.081
95	0.35	0.05	6	1.5	2.3	1	4	9.763	1	4	14.200	1	4	7.763	1	4	11.291	0.178	0.081
95	0.35	0.05	6	2	2.25	1	4	9.450	1	4	13.745	1	4	7.450	1	4	10.836	0.178	0.081
95	0.35	0.05	6	2.5	2.2	1	4	9.138	1	4	13.291	1	4	7.138	1	4	10.382	0.178	0.081
95	0.35	0.05	6	3	2.13	1	4	8.700	1	4	12.655	1	4	6.700	1	4	9.745	0.178	0.081
95	0.35	0.05	8.3	0.05	2.22	1	4	9.263	1	4	13.473	1	4	7.263	1	4	10.564	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.35	0.05	8.3	1	2.1	1	4	8.513	1	4	12.382	1	4	6.513	1	4	9.473	0.178	0.081
95	0.35	0.05	8.3	1.5	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.35	0.05	8.3	2	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.35	0.05	8.3	2.5	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.35	0.05	8.3	3	2.02	1	4	8.013	1	4	11.655	1	4	6.013	1	4	8.745	0.178	0.081
95	0.35	0.05	10.5	0.05	2.01	1	4	7.950	1	4	11.564	1	4	5.950	1	4	8.655	0.178	0.081
95	0.35	0.05	10.5	1	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.35	0.05	10.5	1.5	1.9	1	4	7.263	1	4	10.564	1	4	5.263	1	4	7.655	0.178	0.081
95	0.35	0.05	10.5	2	1.9	1	4	7.263	1	4	10.564	1	4	5.263	1	4	7.655	0.178	0.081
95	0.35	0.05	10.5	2.5	1.9	1	4	7.263	1	4	10.564	1	4	5.263	1	4	7.655	0.178	0.081
95	0.35	0.05	10.5	3	1.91	1	4	7.325	1	4	10.655	1	4	5.325	1	4	7.745	0.178	0.081
95	0.35	0.05	14.5	0.05	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.35	0.05	14.5	1	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.35	0.05	14.5	1.5	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.35	0.05	14.5	2	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.35	0.05	14.5	2.5	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.35	0.05	14.5	3	1.8	1	4	6.638	1	4	9.655	1	4	4.638	1	4	6.745	0.178	0.081
95	0.35	0.1	4.5	0.05	4	2	4	19.275	2	4	28.036	2	4	17.275	2	4	25.127	0.178	0.081
95	0.35	0.1	4.5	1	3.6	2	4	16.775	2	4	24.400	2	4	14.775	2	4	21.491	0.178	0.081
95	0.35	0.1	4.5	1.5	3.3	2	4	14.900	2	4	21.673	2	4	12.900	2	4	18.764	0.178	0.081
95	0.35	0.1	4.5	2	3.2	2	4	14.275	2	4	20.764	2	4	12.275	2	4	17.855	0.178	0.081
95	0.35	0.1	4.5	2.5	2.9	2	4	12.400	2	4	18.036	2	4	10.400	2	4	15.127	0.178	0.081
95	0.35	0.1	4.5	3	2.7	2	4	11.150	2	4	16.218	2	4	9.150	2	4	13.309	0.178	0.081
95	0.35	0.1	6	0.05	3.46	2	4	15.900	2	4	23.127	2	4	13.900	2	4	20.218	0.178	0.081
95	0.35	0.1	6	1	3	2	4	13.025	2	4	18.945	2	4	11.025	2	4	16.036	0.178	0.081
95	0.35	0.1	6	1.5	2.8	2	4	11.775	2	4	17.127	2	4	9.775	2	4	14.218	0.178	0.081
95	0.35	0.1	6	2	2.7	2	4	11.150	2	4	16.218	2	4	9.150	2	4	13.309	0.178	0.081
95	0.35	0.1	6	2.5	2.6	2	4	10.525	2	4	15.309	2	4	8.525	2	4	12.400	0.178	0.081
95	0.35	0.1	6	3	2.46	2	4	9.650	2	4	14.036	2	4	7.650	2	4	11.127	0.178	0.081
95	0.35	0.1	8.3	0.05	2.94	2	4	12.650	2	4	18.400	2	4	10.650	2	4	15.491	0.178	0.081
95	0.35	0.1	8.3	1	2.8	2	4	11.775	2	4	17.127	2	4	9.775	2	4	14.218	0.178	0.081
95	0.35	0.1	8.3	1.5	2.7	2	4	11.150	2	4	16.218	2	4	9.150	2	4	13.309	0.178	0.081
95	0.35	0.1	8.3	2	2.6	2	4	10.525	2	4	15.309	2	4	8.525	2	4	12.400	0.178	0.081
95	0.35	0.1	8.3	2.5	2.5	2	4	9.900	2	4	14.400	2	4	7.900	2	4	11.491	0.178	0.081
95	0.35	0.1	8.3	3	2.4	2	4	9.275	2	4	13.491	2	4	7.275	2	4	10.582	0.178	0.081
95	0.35	0.1	10.5	0.05	2.42	2	4	9.400	2	4	13.673	2	4	7.400	2	4	10.764	0.178	0.081
95	0.35	0.1	10.5	1	2.35	2	4	8.963	2	4	13.036	2	4	6.963	2	4	10.127	0.178	0.081
95	0.35	0.1	10.5	1.5	2.3	2	4	8.650	2	4	12.582	2	4	6.650	2	4	9.673	0.178	0.081
95	0.35	0.1	10.5	2	2.2	2	4	8.025	2	4	11.673	2	4	6.025	2	4	8.764	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.35	0.1	10.5	2.5	2.1	2	4	7.400	2	4	10.764	2	4	5.400	2	4	7.855	0.178	0.081
95	0.35	0.1	10.5	3	2.02	2	4	6.900	2	4	10.036	2	4	4.900	2	4	7.127	0.178	0.081
95	0.35	0.1	14.5	0.05	1.9	2	4	6.150	2	4	8.945	2	4	4.150	2	4	6.036	0.178	0.081
95	0.35	0.1	14.5	1	1.8	2	4	5.525	2	4	8.036	2	4	3.525	2	4	5.127	0.178	0.081
95	0.35	0.1	14.5	1.5	1.8	2	4	5.525	2	4	8.036	2	4	3.525	2	4	5.127	0.178	0.081
95	0.35	0.1	14.5	2	1.8	2	4	5.525	2	4	8.036	2	4	3.525	2	4	5.127	0.178	0.081
95	0.35	0.1	14.5	2.5	1.8	2	4	5.525	2	4	8.036	2	4	3.525	2	4	5.127	0.178	0.081
95	0.35	0.1	14.5	3	1.8	2	4	5.525	2	4	8.036	2	4	3.525	2	4	5.127	0.178	0.081
95	0.35	0.3	4.5	0.05	5	2.5	4	24.969	2.5	4	36.318	2.5	4	22.969	2.5	4	33.409	0.178	0.081
95	0.35	0.3	4.5	1	4.4	2.5	4	21.219	2.5	4	30.864	2.5	4	19.219	2.5	4	27.955	0.178	0.081
95	0.35	0.3	4.5	1.5	4	2.5	4	18.719	2.5	4	27.227	2.5	4	16.719	2.5	4	24.318	0.178	0.081
95	0.35	0.3	4.5	2	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.35	0.3	4.5	2.5	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.35	0.3	4.5	3	3.1	2.5	4	13.094	2.5	4	19.045	2.5	4	11.094	2.5	4	16.136	0.178	0.081
95	0.35	0.3	6	0.05	4.35	2.5	4	20.906	2.5	4	30.409	2.5	4	18.906	2.5	4	27.500	0.178	0.081
95	0.35	0.3	6	1	3.8	2.5	4	17.469	2.5	4	25.409	2.5	4	15.469	2.5	4	22.500	0.178	0.081
95	0.35	0.3	6	1.5	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.35	0.3	6	2	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.35	0.3	6	2.5	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.35	0.3	6	3	2.84	2.5	4	11.469	2.5	4	16.682	2.5	4	9.469	2.5	4	13.773	0.178	0.081
95	0.35	0.3	8.3	0.05	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.35	0.3	8.3	1	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.35	0.3	8.3	1.5	2.9	2.5	4	11.844	2.5	4	17.227	2.5	4	9.844	2.5	4	14.318	0.178	0.081
95	0.35	0.3	8.3	2	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.35	0.3	8.3	2.5	2.7	2.5	4	10.594	2.5	4	15.409	2.5	4	8.594	2.5	4	12.500	0.178	0.081
95	0.35	0.3	8.3	3	2.61	2.5	4	10.031	2.5	4	14.591	2.5	4	8.031	2.5	4	11.682	0.178	0.081
95	0.35	0.3	10.5	0.05	3.05	2.5	4	12.781	2.5	4	18.591	2.5	4	10.781	2.5	4	15.682	0.178	0.081
95	0.35	0.3	10.5	1	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.35	0.3	10.5	1.5	2.7	2.5	4	10.594	2.5	4	15.409	2.5	4	8.594	2.5	4	12.500	0.178	0.081
95	0.35	0.3	10.5	2	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.35	0.3	10.5	2.5	2.5	2.5	4	9.344	2.5	4	13.591	2.5	4	7.344	2.5	4	10.682	0.178	0.081
95	0.35	0.3	10.5	3	2.38	2.5	4	8.594	2.5	4	12.500	2.5	4	6.594	2.5	4	9.591	0.178	0.081
95	0.35	0.3	14.5	0.05	2.4	2.5	4	8.719	2.5	4	12.682	2.5	4	6.719	2.5	4	9.773	0.178	0.081
95	0.35	0.3	14.5	1	2.3	2.5	4	8.094	2.5	4	11.773	2.5	4	6.094	2.5	4	8.864	0.178	0.081
95	0.35	0.3	14.5	1.5	2.3	2.5	4	8.094	2.5	4	11.773	2.5	4	6.094	2.5	4	8.864	0.178	0.081
95	0.35	0.3	14.5	2	2.2	2.5	4	7.469	2.5	4	10.864	2.5	4	5.469	2.5	4	7.955	0.178	0.081
95	0.35	0.3	14.5	2.5	2.2	2.5	4	7.469	2.5	4	10.864	2.5	4	5.469	2.5	4	7.955	0.178	0.081
95	0.35	0.3	14.5	3	2.15	2.5	4	7.156	2.5	4	10.409	2.5	4	5.156	2.5	4	7.500	0.178	0.081
95	0.35	0.5	4.5	0.05	5.5	2.5	4	28.094	2.5	4	40.864	2.5	4	26.094	2.5	4	37.955	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.35	0.5	4.5	1	4.7	2.5	4	23.094	2.5	4	33.591	2.5	4	21.094	2.5	4	30.682	0.178	0.081
95	0.35	0.5	4.5	1.5	4.3	2.5	4	20.594	2.5	4	29.955	2.5	4	18.594	2.5	4	27.045	0.178	0.081
95	0.35	0.5	4.5	2	4	2.5	4	18.719	2.5	4	27.227	2.5	4	16.719	2.5	4	24.318	0.178	0.081
95	0.35	0.5	4.5	2.5	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.35	0.5	4.5	3	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.35	0.5	6	0.05	4.65	2.5	4	22.781	2.5	4	33.136	2.5	4	20.781	2.5	4	30.227	0.178	0.081
95	0.35	0.5	6	1	4	2.5	4	18.719	2.5	4	27.227	2.5	4	16.719	2.5	4	24.318	0.178	0.081
95	0.35	0.5	6	1.5	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.35	0.5	6	2	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.35	0.5	6	2.5	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.35	0.5	6	3	3.12	2.5	4	13.219	2.5	4	19.227	2.5	4	11.219	2.5	4	16.318	0.178	0.081
95	0.35	0.5	8.3	0.05	3.8	2.5	4	17.469	2.5	4	25.409	2.5	4	15.469	2.5	4	22.500	0.178	0.081
95	0.35	0.5	8.3	1	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.35	0.5	8.3	1.5	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.35	0.5	8.3	2	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.35	0.5	8.3	2.5	2.9	2.5	4	11.844	2.5	4	17.227	2.5	4	9.844	2.5	4	14.318	0.178	0.081
95	0.35	0.5	8.3	3	2.75	2.5	4	10.906	2.5	4	15.864	2.5	4	8.906	2.5	4	12.955	0.178	0.081
95	0.35	0.5	10.5	0.05	2.95	2.5	4	12.156	2.5	4	17.682	2.5	4	10.156	2.5	4	14.773	0.178	0.081
95	0.35	0.5	10.5	1	2.7	2.5	4	10.594	2.5	4	15.409	2.5	4	8.594	2.5	4	12.500	0.178	0.081
95	0.35	0.5	10.5	1.5	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.35	0.5	10.5	2	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.35	0.5	10.5	2.5	2.5	2.5	4	9.344	2.5	4	13.591	2.5	4	7.344	2.5	4	10.682	0.178	0.081
95	0.35	0.5	10.5	3	2.37	2.5	4	8.531	2.5	4	12.409	2.5	4	6.531	2.5	4	9.500	0.178	0.081
95	0.35	0.5	14.5	0.05	2.1	2.5	4	6.844	2.5	4	9.955	2.5	4	4.844	2.5	4	7.045	0.178	0.081
95	0.35	0.5	14.5	1	2	2.5	4	6.219	2.5	4	9.045	2.5	4	4.219	2.5	4	6.136	0.178	0.081
95	0.35	0.5	14.5	1.5	2	2.5	4	6.219	2.5	4	9.045	2.5	4	4.219	2.5	4	6.136	0.178	0.081
95	0.35	0.5	14.5	2	2	2.5	4	6.219	2.5	4	9.045	2.5	4	4.219	2.5	4	6.136	0.178	0.081
95	0.35	0.5	14.5	2.5	2	2.5	4	6.219	2.5	4	9.045	2.5	4	4.219	2.5	4	6.136	0.178	0.081
95	0.35	0.5	14.5	3	2	2.5	4	6.219	2.5	4	9.045	2.5	4	4.219	2.5	4	6.136	0.178	0.081
95	0.35	1	4.5	0.05	6	3	6	28.913	3	6	42.055	3	6	25.913	3	6	37.691	0.178	0.081
95	0.35	1	4.5	1	4.9	3	6	22.038	3	6	32.055	3	6	19.038	3	6	27.691	0.178	0.081
95	0.35	1	4.5	1.5	4.5	3	6	19.538	3	6	28.418	3	6	16.538	3	6	24.055	0.178	0.081
95	0.35	1	4.5	2	4.2	3	6	17.663	3	6	25.691	3	6	14.663	3	6	21.327	0.178	0.081
95	0.35	1	4.5	2.5	4.9	3	6	22.038	3	6	32.055	3	6	19.038	3	6	27.691	0.178	0.081
95	0.35	1	4.5	3	3.7	3	6	14.538	3	6	21.145	3	6	11.538	3	6	16.782	0.178	0.081
95	0.35	1	6	0.05	5.37	3	6	24.975	3	6	36.327	3	6	21.975	3	6	31.964	0.178	0.081
95	0.35	1	6	1	4.4	3	6	18.913	3	6	27.509	3	6	15.913	3	6	23.145	0.178	0.081
95	0.35	1	6	1.5	3.9	3	6	15.788	3	6	22.964	3	6	12.788	3	6	18.600	0.178	0.081
95	0.35	1	6	2	3.8	3	6	15.163	3	6	22.055	3	6	12.163	3	6	17.691	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.35	1	6	2.5	3.6	3	6	13.913	3	6	20.236	3	6	10.913	3	6	15.873	0.178	0.081
95	0.35	1	6	3	3.42	3	6	12.788	3	6	18.600	3	6	9.788	3	6	14.236	0.178	0.081
95	0.35	1	8.3	0.05	4.75	3	6	21.100	3	6	30.691	3	6	18.100	3	6	26.327	0.178	0.081
95	0.35	1	8.3	1	4	3	6	16.413	3	6	23.873	3	6	13.413	3	6	19.509	0.178	0.081
95	0.35	1	8.3	1.5	3.7	3	6	14.538	3	6	21.145	3	6	11.538	3	6	16.782	0.178	0.081
95	0.35	1	8.3	2	3.5	3	6	13.288	3	6	19.327	3	6	10.288	3	6	14.964	0.178	0.081
95	0.35	1	8.3	2.5	3.3	3	6	12.038	3	6	17.509	3	6	9.038	3	6	13.145	0.178	0.081
95	0.35	1	8.3	3	3.15	3	6	11.100	3	6	16.145	3	6	8.100	3	6	11.782	0.178	0.081
95	0.35	1	10.5	0.05	4.12	3	6	17.163	3	6	24.964	3	6	14.163	3	6	20.600	0.178	0.081
95	0.35	1	10.5	1	3.8	3	6	15.163	3	6	22.055	3	6	12.163	3	6	17.691	0.178	0.081
95	0.35	1	10.5	1.5	3.6	3	6	13.913	3	6	20.236	3	6	10.913	3	6	15.873	0.178	0.081
95	0.35	1	10.5	2	3.4	3	6	12.663	3	6	18.418	3	6	9.663	3	6	14.055	0.178	0.081
95	0.35	1	10.5	2.5	3.2	3	6	11.413	3	6	16.600	3	6	8.413	3	6	12.236	0.178	0.081
95	0.35	1	10.5	3	2.87	3	6	9.350	3	6	13.600	3	6	6.350	3	6	9.236	0.178	0.081
95	0.35	1	14.5	0.05	3.5	3	6	13.288	3	6	19.327	3	6	10.288	3	6	14.964	0.178	0.081
95	0.35	1	14.5	1	3.1	3	6	10.788	3	6	15.691	3	6	7.788	3	6	11.327	0.178	0.081
95	0.35	1	14.5	1.5	2.9	3	6	9.538	3	6	13.873	3	6	6.538	3	6	9.509	0.178	0.081
95	0.35	1	14.5	2	2.8	3	6	8.913	3	6	12.964	3	6	5.913	3	6	8.600	0.178	0.081
95	0.35	1	14.5	2.5	2.7	3	6	8.288	3	6	12.055	3	6	5.288	3	6	7.691	0.178	0.081
95	0.35	1	14.5	3	2.6	3	6	7.663	3	6	11.145	3	6	4.663	3	6	6.782	0.178	0.081
95	0.35	3	4.5	0.05	6.8	3.5	6	33.356	3.5	6	48.518	3.5	6	30.356	3.5	6	44.155	0.178	0.081
95	0.35	3	4.5	1	5.5	3.5	6	25.231	3.5	6	36.700	3.5	6	22.231	3.5	6	32.336	0.178	0.081
95	0.35	3	4.5	1.5	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.35	3	4.5	2	4.7	3.5	6	20.231	3.5	6	29.427	3.5	6	17.231	3.5	6	25.064	0.178	0.081
95	0.35	3	4.5	2.5	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.35	3	4.5	3	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.35	3	6	0.05	6.17	3.5	6	29.419	3.5	6	42.791	3.5	6	26.419	3.5	6	38.427	0.178	0.081
95	0.35	3	6	1	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.35	3	6	1.5	4.7	3.5	6	20.231	3.5	6	29.427	3.5	6	17.231	3.5	6	25.064	0.178	0.081
95	0.35	3	6	2	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.35	3	6	2.5	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.35	3	6	3	3.72	3.5	6	14.106	3.5	6	20.518	3.5	6	11.106	3.5	6	16.155	0.178	0.081
95	0.35	3	8.3	0.05	5.55	3.5	6	25.544	3.5	6	37.155	3.5	6	22.544	3.5	6	32.791	0.178	0.081
95	0.35	3	8.3	1	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.35	3	8.3	1.5	4.4	3.5	6	18.356	3.5	6	26.700	3.5	6	15.356	3.5	6	22.336	0.178	0.081
95	0.35	3	8.3	2	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.35	3	8.3	2.5	3.7	3.5	6	13.981	3.5	6	20.336	3.5	6	10.981	3.5	6	15.973	0.178	0.081
95	0.35	3	8.3	3	3.45	3.5	6	12.419	3.5	6	18.064	3.5	6	9.419	3.5	6	13.700	0.178	0.081
95	0.35	3	10.5	0.05	4.92	3.5	6	21.606	3.5	6	31.427	3.5	6	18.606	3.5	6	27.064	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.35	3	10.5	1	4.2	3.5	6	17.106	3.5	6	24.882	3.5	6	14.106	3.5	6	20.518	0.178	0.081
95	0.35	3	10.5	1.5	3.7	3.5	6	13.981	3.5	6	20.336	3.5	6	10.981	3.5	6	15.973	0.178	0.081
95	0.35	3	10.5	2	3.5	3.5	6	12.731	3.5	6	18.518	3.5	6	9.731	3.5	6	14.155	0.178	0.081
95	0.35	3	10.5	2.5	3.3	3.5	6	11.481	3.5	6	16.700	3.5	6	8.481	3.5	6	12.336	0.178	0.081
95	0.35	3	10.5	3	3.17	3.5	6	10.669	3.5	6	15.518	3.5	6	7.669	3.5	6	11.155	0.178	0.081
95	0.35	3	14.5	0.05	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.35	3	14.5	1	3.7	3.5	6	13.981	3.5	6	20.336	3.5	6	10.981	3.5	6	15.973	0.178	0.081
95	0.35	3	14.5	1.5	3.5	3.5	6	12.731	3.5	6	18.518	3.5	6	9.731	3.5	6	14.155	0.178	0.081
95	0.35	3	14.5	2	3.3	3.5	6	11.481	3.5	6	16.700	3.5	6	8.481	3.5	6	12.336	0.178	0.081
95	0.35	3	14.5	2.5	3.1	3.5	6	10.231	3.5	6	14.882	3.5	6	7.231	3.5	6	10.518	0.178	0.081
95	0.35	3	14.5	3	2.9	3.5	6	8.981	3.5	6	13.064	3.5	6	5.981	3.5	6	8.700	0.178	0.081
95	0.35	5	4.5	0.05	7.7	3.5	6	38.981	3.5	6	56.700	3.5	6	35.981	3.5	6	52.336	0.178	0.081
95	0.35	5	4.5	1	6	3.5	6	28.356	3.5	6	41.245	3.5	6	25.356	3.5	6	36.882	0.178	0.081
95	0.35	5	4.5	1.5	5.3	3.5	6	23.981	3.5	6	34.882	3.5	6	20.981	3.5	6	30.518	0.178	0.081
95	0.35	5	4.5	2	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.35	5	4.5	2.5	4.7	3.5	6	20.231	3.5	6	29.427	3.5	6	17.231	3.5	6	25.064	0.178	0.081
95	0.35	5	4.5	3	4.4	3.5	6	18.356	3.5	6	26.700	3.5	6	15.356	3.5	6	22.336	0.178	0.081
95	0.35	5	6	0.05	7.07	3.5	6	35.044	3.5	6	50.973	3.5	6	32.044	3.5	6	46.609	0.178	0.081
95	0.35	5	6	1	5.6	3.5	6	25.856	3.5	6	37.609	3.5	6	22.856	3.5	6	33.245	0.178	0.081
95	0.35	5	6	1.5	4.9	3.5	6	21.481	3.5	6	31.245	3.5	6	18.481	3.5	6	26.882	0.178	0.081
95	0.35	5	6	2	4.6	3.5	6	19.606	3.5	6	28.518	3.5	6	16.606	3.5	6	24.155	0.178	0.081
95	0.35	5	6	2.5	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.35	5	6	3	4.07	3.5	6	16.294	3.5	6	23.700	3.5	6	13.294	3.5	6	19.336	0.178	0.081
95	0.35	5	8.3	0.05	6.45	3.5	6	31.169	3.5	6	45.336	3.5	6	28.169	3.5	6	40.973	0.178	0.081
95	0.35	5	8.3	1	5.4	3.5	6	24.606	3.5	6	35.791	3.5	6	21.606	3.5	6	31.427	0.178	0.081
95	0.35	5	8.3	1.5	4.8	3.5	6	20.856	3.5	6	30.336	3.5	6	17.856	3.5	6	25.973	0.178	0.081
95	0.35	5	8.3	2	4.5	3.5	6	18.981	3.5	6	27.609	3.5	6	15.981	3.5	6	23.245	0.178	0.081
95	0.35	5	8.3	2.5	4.2	3.5	6	17.106	3.5	6	24.882	3.5	6	14.106	3.5	6	20.518	0.178	0.081
95	0.35	5	8.3	3	3.75	3.5	6	14.294	3.5	6	20.791	3.5	6	11.294	3.5	6	16.427	0.178	0.081
95	0.35	5	10.5	0.05	5.82	3.5	6	27.231	3.5	6	39.609	3.5	6	24.231	3.5	6	35.245	0.178	0.081
95	0.35	5	10.5	1	4.8	3.5	6	20.856	3.5	6	30.336	3.5	6	17.856	3.5	6	25.973	0.178	0.081
95	0.35	5	10.5	1.5	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.35	5	10.5	2	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.35	5	10.5	2.5	3.7	3.5	6	13.981	3.5	6	20.336	3.5	6	10.981	3.5	6	15.973	0.178	0.081
95	0.35	5	10.5	3	3.42	3.5	6	12.231	3.5	6	17.791	3.5	6	9.231	3.5	6	13.427	0.178	0.081
95	0.35	5	14.5	0.05	5.2	3.5	6	23.356	3.5	6	33.973	3.5	6	20.356	3.5	6	29.609	0.178	0.081
95	0.35	5	14.5	1	4.5	3.5	6	18.981	3.5	6	27.609	3.5	6	15.981	3.5	6	23.245	0.178	0.081
95	0.35	5	14.5	1.5	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.35	5	14.5	2	3.7	3.5	6	13.981	3.5	6	20.336	3.5	6	10.981	3.5	6	15.973	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.35	5	14.5	2.5	3.4	3.5	6	12.106	3.5	6	17.609	3.5	6	9.106	3.5	6	13.245	0.178	0.081
95	0.35	5	14.5	3	3.1	3.5	6	10.231	3.5	6	14.882	3.5	6	7.231	3.5	6	10.518	0.178	0.081
95	0.35	10	4.5	0.05	9	4	6	46.550	4	6	67.709	4	6	43.550	4	6	63.345	0.178	0.081
95	0.35	10	4.5	1	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.35	10	4.5	1.5	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.35	10	4.5	2	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.35	10	4.5	2.5	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.35	10	4.5	3	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.35	10	6	0.05	8.25	4	6	41.863	4	6	60.891	4	6	38.863	4	6	56.527	0.178	0.081
95	0.35	10	6	1	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.35	10	6	1.5	5.8	4	6	26.550	4	6	38.618	4	6	23.550	4	6	34.255	0.178	0.081
95	0.35	10	6	2	5.4	4	6	24.050	4	6	34.982	4	6	21.050	4	6	30.618	0.178	0.081
95	0.35	10	6	2.5	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.35	10	6	3	4.67	4	6	19.488	4	6	28.345	4	6	16.488	4	6	23.982	0.178	0.081
95	0.35	10	8.3	0.05	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.35	10	8.3	1	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.35	10	8.3	1.5	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.35	10	8.3	2	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.35	10	8.3	2.5	4.6	4	6	19.050	4	6	27.709	4	6	16.050	4	6	23.345	0.178	0.081
95	0.35	10	8.3	3	4.35	4	6	17.488	4	6	25.436	4	6	14.488	4	6	21.073	0.178	0.081
95	0.35	10	10.5	0.05	6.75	4	6	32.488	4	6	47.255	4	6	29.488	4	6	42.891	0.178	0.081
95	0.35	10	10.5	1	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.35	10	10.5	1.5	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.35	10	10.5	2	4.6	4	6	19.050	4	6	27.709	4	6	16.050	4	6	23.345	0.178	0.081
95	0.35	10	10.5	2.5	4.3	4	6	17.175	4	6	24.982	4	6	14.175	4	6	20.618	0.178	0.081
95	0.35	10	10.5	3	4.02	4	6	15.425	4	6	22.436	4	6	12.425	4	6	18.073	0.178	0.081
95	0.35	10	14.5	0.05	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.35	10	14.5	1	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.35	10	14.5	1.5	4.8	4	6	20.300	4	6	29.527	4	6	17.300	4	6	25.164	0.178	0.081
95	0.35	10	14.5	2	4.4	4	6	17.800	4	6	25.891	4	6	14.800	4	6	21.527	0.178	0.081
95	0.35	10	14.5	2.5	4	4	6	15.300	4	6	22.255	4	6	12.300	4	6	17.891	0.178	0.081
95	0.35	10	14.5	3	3.7	4	6	13.425	4	6	19.527	4	6	10.425	4	6	15.164	0.178	0.081
95	0.35	30	4.5	0.05	9.7	4	6	50.925	4	6	74.073	4	6	47.925	4	6	69.709	0.178	0.081
95	0.35	30	4.5	1	7.3	4	6	35.925	4	6	52.255	4	6	32.925	4	6	47.891	0.178	0.081
95	0.35	30	4.5	1.5	6.6	4	6	31.550	4	6	45.891	4	6	28.550	4	6	41.527	0.178	0.081
95	0.35	30	4.5	2	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.35	30	4.5	2.5	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.35	30	4.5	3	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081
95	0.35	30	6	0.05	9	4	6	46.550	4	6	67.709	4	6	43.550	4	6	63.345	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.35	30	6	1	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.35	30	6	1.5	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.35	30	6	2	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.35	30	6	2.5	5.4	4	6	24.050	4	6	34.982	4	6	21.050	4	6	30.618	0.178	0.081
95	0.35	30	6	3	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.35	30	8.3	0.05	8.3	4	6	42.175	4	6	61.345	4	6	39.175	4	6	56.982	0.178	0.081
95	0.35	30	8.3	1	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.35	30	8.3	1.5	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.35	30	8.3	2	5.4	4	6	24.050	4	6	34.982	4	6	21.050	4	6	30.618	0.178	0.081
95	0.35	30	8.3	2.5	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.35	30	8.3	3	4.65	4	6	19.363	4	6	28.164	4	6	16.363	4	6	23.800	0.178	0.081
95	0.35	30	10.5	0.05	7.6	4	6	37.800	4	6	54.982	4	6	34.800	4	6	50.618	0.178	0.081
95	0.35	30	10.5	1	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.35	30	10.5	1.5	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.35	30	10.5	2	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.35	30	10.5	2.5	4.5	4	6	18.425	4	6	26.800	4	6	15.425	4	6	22.436	0.178	0.081
95	0.35	30	10.5	3	4.32	4	6	17.300	4	6	25.164	4	6	14.300	4	6	20.800	0.178	0.081
95	0.35	30	14.5	0.05	6.9	4	6	33.425	4	6	48.618	4	6	30.425	4	6	44.255	0.178	0.081
95	0.35	30	14.5	1	5.8	4	6	26.550	4	6	38.618	4	6	23.550	4	6	34.255	0.178	0.081
95	0.35	30	14.5	1.5	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.35	30	14.5	2	4.8	4	6	20.300	4	6	29.527	4	6	17.300	4	6	25.164	0.178	0.081
95	0.35	30	14.5	2.5	4.4	4	6	17.800	4	6	25.891	4	6	14.800	4	6	21.527	0.178	0.081
95	0.35	30	14.5	3	4	4	6	15.300	4	6	22.255	4	6	12.300	4	6	17.891	0.178	0.081
95	0.35	50	4.5	0.05	10	4	6	52.800	4	6	76.800	4	6	49.800	4	6	72.436	0.178	0.081
95	0.35	50	4.5	1	8	4	6	40.300	4	6	58.618	4	6	37.300	4	6	54.255	0.178	0.081
95	0.35	50	4.5	1.5	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.35	50	4.5	2	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.35	50	4.5	2.5	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.35	50	4.5	3	6.1	4	6	28.425	4	6	41.345	4	6	25.425	4	6	36.982	0.178	0.081
95	0.35	50	6	0.05	9.47	4	6	49.488	4	6	71.982	4	6	46.488	4	6	67.618	0.178	0.081
95	0.35	50	6	1	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.35	50	6	1.5	6.8	4	6	32.800	4	6	47.709	4	6	29.800	4	6	43.345	0.178	0.081
95	0.35	50	6	2	6.4	4	6	30.300	4	6	44.073	4	6	27.300	4	6	39.709	0.178	0.081
95	0.35	50	6	2.5	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.35	50	6	3	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.35	50	8.3	0.05	8.95	4	6	46.238	4	6	67.255	4	6	43.238	4	6	62.891	0.178	0.081
95	0.35	50	8.3	1	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.35	50	8.3	1.5	6.4	4	6	30.300	4	6	44.073	4	6	27.300	4	6	39.709	0.178	0.081
95	0.35	50	8.3	2	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.35	50	8.3	2.5	5.6	4	6	25.300	4	6	36.800	4	6	22.300	4	6	32.436	0.178	0.081
95	0.35	50	8.3	3	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081
95	0.35	50	10.5	0.05	8.42	4	6	42.925	4	6	62.436	4	6	39.925	4	6	58.073	0.178	0.081
95	0.35	50	10.5	1	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.35	50	10.5	1.5	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.35	50	10.5	2	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.35	50	10.5	2.5	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.35	50	10.5	3	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.35	50	14.5	0.05	7.9	4	6	39.675	4	6	57.709	4	6	36.675	4	6	53.345	0.178	0.081
95	0.35	50	14.5	1	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.35	50	14.5	1.5	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081
95	0.35	50	14.5	2	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.35	50	14.5	2.5	4.7	4	6	19.675	4	6	28.618	4	6	16.675	4	6	24.255	0.178	0.081
95	0.35	50	14.5	3	4.5	4	6	18.425	4	6	26.800	4	6	15.425	4	6	22.436	0.178	0.081
95	0.5	0.05	4.5	0.05	4.2	1	4	21.638	1	4	31.473	1	4	19.638	1	4	28.564	0.178	0.081
95	0.5	0.05	4.5	1	3.8	1	4	19.138	1	4	27.836	1	4	17.138	1	4	24.927	0.178	0.081
95	0.5	0.05	4.5	1.5	3.6	1	4	17.888	1	4	26.018	1	4	15.888	1	4	23.109	0.178	0.081
95	0.5	0.05	4.5	2	3.4	1	4	16.638	1	4	24.200	1	4	14.638	1	4	21.291	0.178	0.081
95	0.5	0.05	4.5	2.5	3.2	1	4	15.388	1	4	22.382	1	4	13.388	1	4	19.473	0.178	0.081
95	0.5	0.05	4.5	3	3	1	4	14.138	1	4	20.564	1	4	12.138	1	4	17.655	0.178	0.081
95	0.5	0.05	6	0.05	3.66	1	4	18.263	1	4	26.564	1	4	16.263	1	4	23.655	0.178	0.081
95	0.5	0.05	6	1	3.1	1	4	14.763	1	4	21.473	1	4	12.763	1	4	18.564	0.178	0.081
95	0.5	0.05	6	1.5	3	1	4	14.138	1	4	20.564	1	4	12.138	1	4	17.655	0.178	0.081
95	0.5	0.05	6	2	2.9	1	4	13.513	1	4	19.655	1	4	11.513	1	4	16.745	0.178	0.081
95	0.5	0.05	6	2.5	2.8	1	4	12.888	1	4	18.745	1	4	10.888	1	4	15.836	0.178	0.081
95	0.5	0.05	6	3	2.73	1	4	12.450	1	4	18.109	1	4	10.450	1	4	15.200	0.178	0.081
95	0.5	0.05	8.3	0.05	3.12	1	4	14.888	1	4	21.655	1	4	12.888	1	4	18.745	0.178	0.081
95	0.5	0.05	8.3	1	2.9	1	4	13.513	1	4	19.655	1	4	11.513	1	4	16.745	0.178	0.081
95	0.5	0.05	8.3	1.5	2.9	1	4	13.513	1	4	19.655	1	4	11.513	1	4	16.745	0.178	0.081
95	0.5	0.05	8.3	2	2.7	1	4	12.263	1	4	17.836	1	4	10.263	1	4	14.927	0.178	0.081
95	0.5	0.05	8.3	2.5	2.6	1	4	11.638	1	4	16.927	1	4	9.638	1	4	14.018	0.178	0.081
95	0.5	0.05	8.3	3	2.47	1	4	10.825	1	4	15.745	1	4	8.825	1	4	12.836	0.178	0.081
95	0.5	0.05	10.5	0.05	2.58	1	4	11.513	1	4	16.745	1	4	9.513	1	4	13.836	0.178	0.081
95	0.5	0.05	10.5	1	2.4	1	4	10.388	1	4	15.109	1	4	8.388	1	4	12.200	0.178	0.081
95	0.5	0.05	10.5	1.5	2.4	1	4	10.388	1	4	15.109	1	4	8.388	1	4	12.200	0.178	0.081
95	0.5	0.05	10.5	2	2.35	1	4	10.075	1	4	14.655	1	4	8.075	1	4	11.745	0.178	0.081
95	0.5	0.05	10.5	2.5	2.3	1	4	9.763	1	4	14.200	1	4	7.763	1	4	11.291	0.178	0.081
95	0.5	0.05	10.5	3	2.21	1	4	9.200	1	4	13.382	1	4	7.200	1	4	10.473	0.178	0.081
95	0.5	0.05	14.5	0.05	2.05	1	4	8.200	1	4	11.927	1	4	6.200	1	4	9.018	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.5	0.05	14.5	1	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.5	0.05	14.5	1.5	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.5	0.05	14.5	2	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.5	0.05	14.5	2.5	2	1	4	7.888	1	4	11.473	1	4	5.888	1	4	8.564	0.178	0.081
95	0.5	0.05	14.5	3	1.95	1	4	7.575	1	4	11.018	1	4	5.575	1	4	8.109	0.178	0.081
95	0.5	0.1	4.5	0.05	4.7	2	4	23.650	2	4	34.400	2	4	21.650	2	4	31.491	0.178	0.081
95	0.5	0.1	4.5	1	3.9	2	4	18.650	2	4	27.127	2	4	16.650	2	4	24.218	0.178	0.081
95	0.5	0.1	4.5	1.5	3.5	2	4	16.150	2	4	23.491	2	4	14.150	2	4	20.582	0.178	0.081
95	0.5	0.1	4.5	2	3.3	2	4	14.900	2	4	21.673	2	4	12.900	2	4	18.764	0.178	0.081
95	0.5	0.1	4.5	2.5	3.1	2	4	13.650	2	4	19.855	2	4	11.650	2	4	16.945	0.178	0.081
95	0.5	0.1	4.5	3	2.9	2	4	12.400	2	4	18.036	2	4	10.400	2	4	15.127	0.178	0.081
95	0.5	0.1	6	0.05	4.05	2	4	19.588	2	4	28.491	2	4	17.588	2	4	25.582	0.178	0.081
95	0.5	0.1	6	1	3.3	2	4	14.900	2	4	21.673	2	4	12.900	2	4	18.764	0.178	0.081
95	0.5	0.1	6	1.5	3	2	4	13.025	2	4	18.945	2	4	11.025	2	4	16.036	0.178	0.081
95	0.5	0.1	6	2	2.9	2	4	12.400	2	4	18.036	2	4	10.400	2	4	15.127	0.178	0.081
95	0.5	0.1	6	2.5	2.8	2	4	11.775	2	4	17.127	2	4	9.775	2	4	14.218	0.178	0.081
95	0.5	0.1	6	3	2.65	2	4	10.838	2	4	15.764	2	4	8.838	2	4	12.855	0.178	0.081
95	0.5	0.1	8.3	0.05	3.4	2	4	15.525	2	4	22.582	2	4	13.525	2	4	19.673	0.178	0.081
95	0.5	0.1	8.3	1	2.9	2	4	12.400	2	4	18.036	2	4	10.400	2	4	15.127	0.178	0.081
95	0.5	0.1	8.3	1.5	2.7	2	4	11.150	2	4	16.218	2	4	9.150	2	4	13.309	0.178	0.081
95	0.5	0.1	8.3	2	2.6	2	4	10.525	2	4	15.309	2	4	8.525	2	4	12.400	0.178	0.081
95	0.5	0.1	8.3	2.5	2.5	2	4	9.900	2	4	14.400	2	4	7.900	2	4	11.491	0.178	0.081
95	0.5	0.1	8.3	3	2.4	2	4	9.275	2	4	13.491	2	4	7.275	2	4	10.582	0.178	0.081
95	0.5	0.1	10.5	0.05	2.75	2	4	11.463	2	4	16.673	2	4	9.463	2	4	13.764	0.178	0.081
95	0.5	0.1	10.5	1	2.4	2	4	9.275	2	4	13.491	2	4	7.275	2	4	10.582	0.178	0.081
95	0.5	0.1	10.5	1.5	2.3	2	4	8.650	2	4	12.582	2	4	6.650	2	4	9.673	0.178	0.081
95	0.5	0.1	10.5	2	2.2	2	4	8.025	2	4	11.673	2	4	6.025	2	4	8.764	0.178	0.081
95	0.5	0.1	10.5	2.5	2.2	2	4	8.025	2	4	11.673	2	4	6.025	2	4	8.764	0.178	0.081
95	0.5	0.1	10.5	3	2.15	2	4	7.713	2	4	11.218	2	4	5.713	2	4	8.309	0.178	0.081
95	0.5	0.1	14.5	0.05	2.1	2	4	7.400	2	4	10.764	2	4	5.400	2	4	7.855	0.178	0.081
95	0.5	0.1	14.5	1	2	2	4	6.775	2	4	9.855	2	4	4.775	2	4	6.945	0.178	0.081
95	0.5	0.1	14.5	1.5	1.9	2	4	6.150	2	4	8.945	2	4	4.150	2	4	6.036	0.178	0.081
95	0.5	0.1	14.5	2	1.9	2	4	6.150	2	4	8.945	2	4	4.150	2	4	6.036	0.178	0.081
95	0.5	0.1	14.5	2.5	1.9	2	4	6.150	2	4	8.945	2	4	4.150	2	4	6.036	0.178	0.081
95	0.5	0.1	14.5	3	1.9	2	4	6.150	2	4	8.945	2	4	4.150	2	4	6.036	0.178	0.081
95	0.5	0.3	4.5	0.05	6	2.5	4	31.219	2.5	4	45.409	2.5	4	29.219	2.5	4	42.500	0.178	0.081
95	0.5	0.3	4.5	1	4.6	2.5	4	22.469	2.5	4	32.682	2.5	4	20.469	2.5	4	29.773	0.178	0.081
95	0.5	0.3	4.5	1.5	4.2	2.5	4	19.969	2.5	4	29.045	2.5	4	17.969	2.5	4	26.136	0.178	0.081
95	0.5	0.3	4.5	2	3.9	2.5	4	18.094	2.5	4	26.318	2.5	4	16.094	2.5	4	23.409	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.5	0.3	4.5	2.5	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.5	0.3	4.5	3	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.5	0.3	6	0.05	5.2	2.5	4	26.219	2.5	4	38.136	2.5	4	24.219	2.5	4	35.227	0.178	0.081
95	0.5	0.3	6	1	4	2.5	4	18.719	2.5	4	27.227	2.5	4	16.719	2.5	4	24.318	0.178	0.081
95	0.5	0.3	6	1.5	3.8	2.5	4	17.469	2.5	4	25.409	2.5	4	15.469	2.5	4	22.500	0.178	0.081
95	0.5	0.3	6	2	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.5	0.3	6	2.5	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.5	0.3	6	3	3.22	2.5	4	13.844	2.5	4	20.136	2.5	4	11.844	2.5	4	17.227	0.178	0.081
95	0.5	0.3	8.3	0.05	4.4	2.5	4	21.219	2.5	4	30.864	2.5	4	19.219	2.5	4	27.955	0.178	0.081
95	0.5	0.3	8.3	1	3.8	2.5	4	17.469	2.5	4	25.409	2.5	4	15.469	2.5	4	22.500	0.178	0.081
95	0.5	0.3	8.3	1.5	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.5	0.3	8.3	2	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.5	0.3	8.3	2.5	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.5	0.3	8.3	3	2.95	2.5	4	12.156	2.5	4	17.682	2.5	4	10.156	2.5	4	14.773	0.178	0.081
95	0.5	0.3	10.5	0.05	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.5	0.3	10.5	1	3.1	2.5	4	13.094	2.5	4	19.045	2.5	4	11.094	2.5	4	16.136	0.178	0.081
95	0.5	0.3	10.5	1.5	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.5	0.3	10.5	2	2.9	2.5	4	11.844	2.5	4	17.227	2.5	4	9.844	2.5	4	14.318	0.178	0.081
95	0.5	0.3	10.5	2.5	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.5	0.3	10.5	3	2.67	2.5	4	10.406	2.5	4	15.136	2.5	4	8.406	2.5	4	12.227	0.178	0.081
95	0.5	0.3	14.5	0.05	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.5	0.3	14.5	1	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.5	0.3	14.5	1.5	2.5	2.5	4	9.344	2.5	4	13.591	2.5	4	7.344	2.5	4	10.682	0.178	0.081
95	0.5	0.3	14.5	2	2.5	2.5	4	9.344	2.5	4	13.591	2.5	4	7.344	2.5	4	10.682	0.178	0.081
95	0.5	0.3	14.5	2.5	2.4	2.5	4	8.719	2.5	4	12.682	2.5	4	6.719	2.5	4	9.773	0.178	0.081
95	0.5	0.3	14.5	3	2.4	2.5	4	8.719	2.5	4	12.682	2.5	4	6.719	2.5	4	9.773	0.178	0.081
95	0.5	0.5	4.5	0.05	6.1	2.5	4	31.844	2.5	4	46.318	2.5	4	29.844	2.5	4	43.409	0.178	0.081
95	0.5	0.5	4.5	1	4.8	2.5	4	23.719	2.5	4	34.500	2.5	4	21.719	2.5	4	31.591	0.178	0.081
95	0.5	0.5	4.5	1.5	4.5	2.5	4	21.844	2.5	4	31.773	2.5	4	19.844	2.5	4	28.864	0.178	0.081
95	0.5	0.5	4.5	2	4.2	2.5	4	19.969	2.5	4	29.045	2.5	4	17.969	2.5	4	26.136	0.178	0.081
95	0.5	0.5	4.5	2.5	3.9	2.5	4	18.094	2.5	4	26.318	2.5	4	16.094	2.5	4	23.409	0.178	0.081
95	0.5	0.5	4.5	3	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.5	0.5	6	0.05	5.37	2.5	4	27.281	2.5	4	39.682	2.5	4	25.281	2.5	4	36.773	0.178	0.081
95	0.5	0.5	6	1	4.3	2.5	4	20.594	2.5	4	29.955	2.5	4	18.594	2.5	4	27.045	0.178	0.081
95	0.5	0.5	6	1.5	3.9	2.5	4	18.094	2.5	4	26.318	2.5	4	16.094	2.5	4	23.409	0.178	0.081
95	0.5	0.5	6	2	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.5	0.5	6	2.5	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.5	0.5	6	3	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.5	0.5	8.3	0.05	4.65	2.5	4	22.781	2.5	4	33.136	2.5	4	20.781	2.5	4	30.227	0.178	0.081
95	0.5	0.5	8.3	1	4	2.5	4	18.719	2.5	4	27.227	2.5	4	16.719	2.5	4	24.318	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.5	0.5	8.3	1.5	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.5	0.5	8.3	2	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.5	0.5	8.3	2.5	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.5	0.5	8.3	3	3.1	2.5	4	13.094	2.5	4	19.045	2.5	4	11.094	2.5	4	16.136	0.178	0.081
95	0.5	0.5	10.5	0.05	3.92	2.5	4	18.219	2.5	4	26.500	2.5	4	16.219	2.5	4	23.591	0.178	0.081
95	0.5	0.5	10.5	1	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.5	0.5	10.5	1.5	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.5	0.5	10.5	2	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.5	0.5	10.5	2.5	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.5	0.5	10.5	3	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.5	0.5	14.5	0.05	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.5	0.5	14.5	1	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.5	0.5	14.5	1.5	2.9	2.5	4	11.844	2.5	4	17.227	2.5	4	9.844	2.5	4	14.318	0.178	0.081
95	0.5	0.5	14.5	2	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.5	0.5	14.5	2.5	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.5	0.5	14.5	3	2.5	2.5	4	9.344	2.5	4	13.591	2.5	4	7.344	2.5	4	10.682	0.178	0.081
95	0.5	1	4.5	0.05	6.9	3	6	34.538	3	6	50.236	3	6	31.538	3	6	45.873	0.178	0.081
95	0.5	1	4.5	1	5	3	6	22.663	3	6	32.964	3	6	19.663	3	6	28.600	0.178	0.081
95	0.5	1	4.5	1.5	4.6	3	6	20.163	3	6	29.327	3	6	17.163	3	6	24.964	0.178	0.081
95	0.5	1	4.5	2	4.4	3	6	18.913	3	6	27.509	3	6	15.913	3	6	23.145	0.178	0.081
95	0.5	1	4.5	2.5	4.2	3	6	17.663	3	6	25.691	3	6	14.663	3	6	21.327	0.178	0.081
95	0.5	1	4.5	3	4	3	6	16.413	3	6	23.873	3	6	13.413	3	6	19.509	0.178	0.081
95	0.5	1	6	0.05	6.3	3	6	30.788	3	6	44.782	3	6	27.788	3	6	40.418	0.178	0.081
95	0.5	1	6	1	4.8	3	6	21.413	3	6	31.145	3	6	18.413	3	6	26.782	0.178	0.081
95	0.5	1	6	1.5	4.4	3	6	18.913	3	6	27.509	3	6	15.913	3	6	23.145	0.178	0.081
95	0.5	1	6	2	4.2	3	6	17.663	3	6	25.691	3	6	14.663	3	6	21.327	0.178	0.081
95	0.5	1	6	2.5	4	3	6	16.413	3	6	23.873	3	6	13.413	3	6	19.509	0.178	0.081
95	0.5	1	6	3	3.75	3	6	14.850	3	6	21.600	3	6	11.850	3	6	17.236	0.178	0.081
95	0.5	1	8.3	0.05	5.7	3	6	27.038	3	6	39.327	3	6	24.038	3	6	34.964	0.178	0.081
95	0.5	1	8.3	1	4.3	3	6	18.288	3	6	26.600	3	6	15.288	3	6	22.236	0.178	0.081
95	0.5	1	8.3	1.5	4.1	3	6	17.038	3	6	24.782	3	6	14.038	3	6	20.418	0.178	0.081
95	0.5	1	8.3	2	3.9	3	6	15.788	3	6	22.964	3	6	12.788	3	6	18.600	0.178	0.081
95	0.5	1	8.3	2.5	3.7	3	6	14.538	3	6	21.145	3	6	11.538	3	6	16.782	0.178	0.081
95	0.5	1	8.3	3	3.5	3	6	13.288	3	6	19.327	3	6	10.288	3	6	14.964	0.178	0.081
95	0.5	1	10.5	0.05	5.1	3	6	23.288	3	6	33.873	3	6	20.288	3	6	29.509	0.178	0.081
95	0.5	1	10.5	1	4.1	3	6	17.038	3	6	24.782	3	6	14.038	3	6	20.418	0.178	0.081
95	0.5	1	10.5	1.5	3.9	3	6	15.788	3	6	22.964	3	6	12.788	3	6	18.600	0.178	0.081
95	0.5	1	10.5	2	3.7	3	6	14.538	3	6	21.145	3	6	11.538	3	6	16.782	0.178	0.081
95	0.5	1	10.5	2.5	3.5	3	6	13.288	3	6	19.327	3	6	10.288	3	6	14.964	0.178	0.081
95	0.5	1	10.5	3	3.25	3	6	11.725	3	6	17.055	3	6	8.725	3	6	12.691	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.5	1	14.5	0.05	4.5	3	6	19.538	3	6	28.418	3	6	16.538	3	6	24.055	0.178	0.081
95	0.5	1	14.5	1	3.9	3	6	15.788	3	6	22.964	3	6	12.788	3	6	18.600	0.178	0.081
95	0.5	1	14.5	1.5	3.6	3	6	13.913	3	6	20.236	3	6	10.913	3	6	15.873	0.178	0.081
95	0.5	1	14.5	2	3.4	3	6	12.663	3	6	18.418	3	6	9.663	3	6	14.055	0.178	0.081
95	0.5	1	14.5	2.5	3.2	3	6	11.413	3	6	16.600	3	6	8.413	3	6	12.236	0.178	0.081
95	0.5	1	14.5	3	3	3	6	10.163	3	6	14.782	3	6	7.163	3	6	10.418	0.178	0.081
95	0.5	3	4.5	0.05	7.9	3.5	6	40.231	3.5	6	58.518	3.5	6	37.231	3.5	6	54.155	0.178	0.081
95	0.5	3	4.5	1	6	3.5	6	28.356	3.5	6	41.245	3.5	6	25.356	3.5	6	36.882	0.178	0.081
95	0.5	3	4.5	1.5	5.6	3.5	6	25.856	3.5	6	37.609	3.5	6	22.856	3.5	6	33.245	0.178	0.081
95	0.5	3	4.5	2	5.3	3.5	6	23.981	3.5	6	34.882	3.5	6	20.981	3.5	6	30.518	0.178	0.081
95	0.5	3	4.5	2.5	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.5	3	4.5	3	4.7	3.5	6	20.231	3.5	6	29.427	3.5	6	17.231	3.5	6	25.064	0.178	0.081
95	0.5	3	6	0.05	7.22	3.5	6	35.981	3.5	6	52.336	3.5	6	32.981	3.5	6	47.973	0.178	0.081
95	0.5	3	6	1	5.5	3.5	6	25.231	3.5	6	36.700	3.5	6	22.231	3.5	6	32.336	0.178	0.081
95	0.5	3	6	1.5	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.5	3	6	2	4.7	3.5	6	20.231	3.5	6	29.427	3.5	6	17.231	3.5	6	25.064	0.178	0.081
95	0.5	3	6	2.5	4.5	3.5	6	18.981	3.5	6	27.609	3.5	6	15.981	3.5	6	23.245	0.178	0.081
95	0.5	3	6	3	4.32	3.5	6	17.856	3.5	6	25.973	3.5	6	14.856	3.5	6	21.609	0.178	0.081
95	0.5	3	8.3	0.05	6.55	3.5	6	31.794	3.5	6	46.245	3.5	6	28.794	3.5	6	41.882	0.178	0.081
95	0.5	3	8.3	1	5.6	3.5	6	25.856	3.5	6	37.609	3.5	6	22.856	3.5	6	33.245	0.178	0.081
95	0.5	3	8.3	1.5	5.3	3.5	6	23.981	3.5	6	34.882	3.5	6	20.981	3.5	6	30.518	0.178	0.081
95	0.5	3	8.3	2	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.5	3	8.3	2.5	4.2	3.5	6	17.106	3.5	6	24.882	3.5	6	14.106	3.5	6	20.518	0.178	0.081
95	0.5	3	8.3	3	3.95	3.5	6	15.544	3.5	6	22.609	3.5	6	12.544	3.5	6	18.245	0.178	0.081
95	0.5	3	10.5	0.05	5.87	3.5	6	27.544	3.5	6	40.064	3.5	6	24.544	3.5	6	35.700	0.178	0.081
95	0.5	3	10.5	1	5.2	3.5	6	23.356	3.5	6	33.973	3.5	6	20.356	3.5	6	29.609	0.178	0.081
95	0.5	3	10.5	1.5	4.4	3.5	6	18.356	3.5	6	26.700	3.5	6	15.356	3.5	6	22.336	0.178	0.081
95	0.5	3	10.5	2	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.5	3	10.5	2.5	3.8	3.5	6	14.606	3.5	6	21.245	3.5	6	11.606	3.5	6	16.882	0.178	0.081
95	0.5	3	10.5	3	3.57	3.5	6	13.169	3.5	6	19.155	3.5	6	10.169	3.5	6	14.791	0.178	0.081
95	0.5	3	14.5	0.05	5.2	3.5	6	23.356	3.5	6	33.973	3.5	6	20.356	3.5	6	29.609	0.178	0.081
95	0.5	3	14.5	1	4.5	3.5	6	18.981	3.5	6	27.609	3.5	6	15.981	3.5	6	23.245	0.178	0.081
95	0.5	3	14.5	1.5	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.5	3	14.5	2	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.5	3	14.5	2.5	3.7	3.5	6	13.981	3.5	6	20.336	3.5	6	10.981	3.5	6	15.973	0.178	0.081
95	0.5	3	14.5	3	3.2	3.5	6	10.856	3.5	6	15.791	3.5	6	7.856	3.5	6	11.427	0.178	0.081
95	0.5	5	4.5	0.05	9.4	3.5	6	49.606	3.5	6	72.155	3.5	6	46.606	3.5	6	67.791	0.178	0.081
95	0.5	5	4.5	1	7	3.5	6	34.606	3.5	6	50.336	3.5	6	31.606	3.5	6	45.973	0.178	0.081
95	0.5	5	4.5	1.5	6.4	3.5	6	30.856	3.5	6	44.882	3.5	6	27.856	3.5	6	40.518	0.178	0.081
95	0.5	5	4.5	2	6	3.5	6	28.356	3.5	6	41.245	3.5	6	25.356	3.5	6	36.882	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.5	5	4.5	2.5	5.6	3.5	6	25.856	3.5	6	37.609	3.5	6	22.856	3.5	6	33.245	0.178	0.081
95	0.5	5	4.5	3	5.2	3.5	6	23.356	3.5	6	33.973	3.5	6	20.356	3.5	6	29.609	0.178	0.081
95	0.5	5	6	0.05	8.57	3.5	6	44.419	3.5	6	64.609	3.5	6	41.419	3.5	6	60.245	0.178	0.081
95	0.5	5	6	1	6.6	3.5	6	32.106	3.5	6	46.700	3.5	6	29.106	3.5	6	42.336	0.178	0.081
95	0.5	5	6	1.5	5.9	3.5	6	27.731	3.5	6	40.336	3.5	6	24.731	3.5	6	35.973	0.178	0.081
95	0.5	5	6	2	5.4	3.5	6	24.606	3.5	6	35.791	3.5	6	21.606	3.5	6	31.427	0.178	0.081
95	0.5	5	6	2.5	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.5	5	6	3	4.82	3.5	6	20.981	3.5	6	30.518	3.5	6	17.981	3.5	6	26.155	0.178	0.081
95	0.5	5	8.3	0.05	7.75	3.5	6	39.294	3.5	6	57.155	3.5	6	36.294	3.5	6	52.791	0.178	0.081
95	0.5	5	8.3	1	5.2	3.5	6	23.356	3.5	6	33.973	3.5	6	20.356	3.5	6	29.609	0.178	0.081
95	0.5	5	8.3	1.5	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.5	5	8.3	2	4.8	3.5	6	20.856	3.5	6	30.336	3.5	6	17.856	3.5	6	25.973	0.178	0.081
95	0.5	5	8.3	2.5	4.6	3.5	6	19.606	3.5	6	28.518	3.5	6	16.606	3.5	6	24.155	0.178	0.081
95	0.5	5	8.3	3	4.45	3.5	6	18.669	3.5	6	27.155	3.5	6	15.669	3.5	6	22.791	0.178	0.081
95	0.5	5	10.5	0.05	6.92	3.5	6	34.106	3.5	6	49.609	3.5	6	31.106	3.5	6	45.245	0.178	0.081
95	0.5	5	10.5	1	4.8	3.5	6	20.856	3.5	6	30.336	3.5	6	17.856	3.5	6	25.973	0.178	0.081
95	0.5	5	10.5	1.5	4.6	3.5	6	19.606	3.5	6	28.518	3.5	6	16.606	3.5	6	24.155	0.178	0.081
95	0.5	5	10.5	2	4.4	3.5	6	18.356	3.5	6	26.700	3.5	6	15.356	3.5	6	22.336	0.178	0.081
95	0.5	5	10.5	2.5	4.2	3.5	6	17.106	3.5	6	24.882	3.5	6	14.106	3.5	6	20.518	0.178	0.081
95	0.5	5	10.5	3	4.07	3.5	6	16.294	3.5	6	23.700	3.5	6	13.294	3.5	6	19.336	0.178	0.081
95	0.5	5	14.5	0.05	6.1	3.5	6	28.981	3.5	6	42.155	3.5	6	25.981	3.5	6	37.791	0.178	0.081
95	0.5	5	14.5	1	4.5	3.5	6	18.981	3.5	6	27.609	3.5	6	15.981	3.5	6	23.245	0.178	0.081
95	0.5	5	14.5	1.5	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.5	5	14.5	2	4.1	3.5	6	16.481	3.5	6	23.973	3.5	6	13.481	3.5	6	19.609	0.178	0.081
95	0.5	5	14.5	2.5	3.9	3.5	6	15.231	3.5	6	22.155	3.5	6	12.231	3.5	6	17.791	0.178	0.081
95	0.5	5	14.5	3	3.7	3.5	6	13.981	3.5	6	20.336	3.5	6	10.981	3.5	6	15.973	0.178	0.081
95	0.5	10	4.5	0.05	9	4	6	46.550	4	6	67.709	4	6	43.550	4	6	63.345	0.178	0.081
95	0.5	10	4.5	1	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.5	10	4.5	1.5	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.5	10	4.5	2	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.5	10	4.5	2.5	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.5	10	4.5	3	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.5	10	6	0.05	8.3	4	6	42.175	4	6	61.345	4	6	39.175	4	6	56.982	0.178	0.081
95	0.5	10	6	1	7.6	4	6	37.800	4	6	54.982	4	6	34.800	4	6	50.618	0.178	0.081
95	0.5	10	6	1.5	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.5	10	6	2	5.8	4	6	26.550	4	6	38.618	4	6	23.550	4	6	34.255	0.178	0.081
95	0.5	10	6	2.5	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.5	10	6	3	4.7	4	6	19.675	4	6	28.618	4	6	16.675	4	6	24.255	0.178	0.081
95	0.5	10	8.3	0.05	7.8	4	6	39.050	4	6	56.800	4	6	36.050	4	6	52.436	0.178	0.081
95	0.5	10	8.3	1	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.5	10	8.3	1.5	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.5	10	8.3	2	5.1	4	6	22.175	4	6	32.255	4	6	19.175	4	6	27.891	0.178	0.081
95	0.5	10	8.3	2.5	4.7	4	6	19.675	4	6	28.618	4	6	16.675	4	6	24.255	0.178	0.081
95	0.5	10	8.3	3	4.4	4	6	17.800	4	6	25.891	4	6	14.800	4	6	21.527	0.178	0.081
95	0.5	10	10.5	0.05	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.5	10	10.5	1	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.5	10	10.5	1.5	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.5	10	10.5	2	4.7	4	6	19.675	4	6	28.618	4	6	16.675	4	6	24.255	0.178	0.081
95	0.5	10	10.5	2.5	4.5	4	6	18.425	4	6	26.800	4	6	15.425	4	6	22.436	0.178	0.081
95	0.5	10	10.5	3	4.1	4	6	15.925	4	6	23.164	4	6	12.925	4	6	18.800	0.178	0.081
95	0.5	10	14.5	0.05	6.1	4	6	28.425	4	6	41.345	4	6	25.425	4	6	36.982	0.178	0.081
95	0.5	10	14.5	1	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081
95	0.5	10	14.5	1.5	4.7	4	6	19.675	4	6	28.618	4	6	16.675	4	6	24.255	0.178	0.081
95	0.5	10	14.5	2	4.4	4	6	17.800	4	6	25.891	4	6	14.800	4	6	21.527	0.178	0.081
95	0.5	10	14.5	2.5	4.1	4	6	15.925	4	6	23.164	4	6	12.925	4	6	18.800	0.178	0.081
95	0.5	10	14.5	3	3.8	4	6	14.050	4	6	20.436	4	6	11.050	4	6	16.073	0.178	0.081
95	0.5	30	4.5	0.05	10	4	6	52.800	4	6	76.800	4	6	49.800	4	6	72.436	0.178	0.081
95	0.5	30	4.5	1	7.7	4	6	38.425	4	6	55.891	4	6	35.425	4	6	51.527	0.178	0.081
95	0.5	30	4.5	1.5	7.3	4	6	35.925	4	6	52.255	4	6	32.925	4	6	47.891	0.178	0.081
95	0.5	30	4.5	2	6.7	4	6	32.175	4	6	46.800	4	6	29.175	4	6	42.436	0.178	0.081
95	0.5	30	4.5	2.5	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.5	30	4.5	3	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.5	30	6	0.05	9.5	4	6	49.675	4	6	72.255	4	6	46.675	4	6	67.891	0.178	0.081
95	0.5	30	6	1	8.1	4	6	40.925	4	6	59.527	4	6	37.925	4	6	55.164	0.178	0.081
95	0.5	30	6	1.5	7.3	4	6	35.925	4	6	52.255	4	6	32.925	4	6	47.891	0.178	0.081
95	0.5	30	6	2	6.6	4	6	31.550	4	6	45.891	4	6	28.550	4	6	41.527	0.178	0.081
95	0.5	30	6	2.5	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.5	30	6	3	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.5	30	8.3	0.05	8.9	4	6	45.925	4	6	66.800	4	6	42.925	4	6	62.436	0.178	0.081
95	0.5	30	8.3	1	6.9	4	6	33.425	4	6	48.618	4	6	30.425	4	6	44.255	0.178	0.081
95	0.5	30	8.3	1.5	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.5	30	8.3	2	5.8	4	6	26.550	4	6	38.618	4	6	23.550	4	6	34.255	0.178	0.081
95	0.5	30	8.3	2.5	5.4	4	6	24.050	4	6	34.982	4	6	21.050	4	6	30.618	0.178	0.081
95	0.5	30	8.3	3	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.5	30	10.5	0.05	8.2	4	6	41.550	4	6	60.436	4	6	38.550	4	6	56.073	0.178	0.081
95	0.5	30	10.5	1	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.5	30	10.5	1.5	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.5	30	10.5	2	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.5	30	10.5	2.5	5.1	4	6	22.175	4	6	32.255	4	6	19.175	4	6	27.891	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.5	30	10.5	3	4.6	4	6	19.050	4	6	27.709	4	6	16.050	4	6	23.345	0.178	0.081
95	0.5	30	14.5	0.05	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.5	30	14.5	1	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.5	30	14.5	1.5	5.6	4	6	25.300	4	6	36.800	4	6	22.300	4	6	32.436	0.178	0.081
95	0.5	30	14.5	2	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.5	30	14.5	2.5	4.8	4	6	20.300	4	6	29.527	4	6	17.300	4	6	25.164	0.178	0.081
95	0.5	30	14.5	3	4.4	4	6	17.800	4	6	25.891	4	6	14.800	4	6	21.527	0.178	0.081
95	0.5	50	4.5	0.05	11	4	6	59.050	4	6	85.891	4	6	56.050	4	6	81.527	0.178	0.081
95	0.5	50	4.5	1	8.5	4	6	43.425	4	6	63.164	4	6	40.425	4	6	58.800	0.178	0.081
95	0.5	50	4.5	1.5	8	4	6	40.300	4	6	58.618	4	6	37.300	4	6	54.255	0.178	0.081
95	0.5	50	4.5	2	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.5	50	4.5	2.5	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.5	50	4.5	3	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.5	50	6	0.05	10.5	4	6	55.925	4	6	81.345	4	6	52.925	4	6	76.982	0.178	0.081
95	0.5	50	6	1	8.5	4	6	43.425	4	6	63.164	4	6	40.425	4	6	58.800	0.178	0.081
95	0.5	50	6	1.5	8	4	6	40.300	4	6	58.618	4	6	37.300	4	6	54.255	0.178	0.081
95	0.5	50	6	2	7.2	4	6	35.300	4	6	51.345	4	6	32.300	4	6	46.982	0.178	0.081
95	0.5	50	6	2.5	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.5	50	6	3	5.75	4	6	26.238	4	6	38.164	4	6	23.238	4	6	33.800	0.178	0.081
95	0.5	50	8.3	0.05	10	4	6	52.800	4	6	76.800	4	6	49.800	4	6	72.436	0.178	0.081
95	0.5	50	8.3	1	7.8	4	6	39.050	4	6	56.800	4	6	36.050	4	6	52.436	0.178	0.081
95	0.5	50	8.3	1.5	6.9	4	6	33.425	4	6	48.618	4	6	30.425	4	6	44.255	0.178	0.081
95	0.5	50	8.3	2	6.3	4	6	29.675	4	6	43.164	4	6	26.675	4	6	38.800	0.178	0.081
95	0.5	50	8.3	2.5	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.5	50	8.3	3	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.5	50	10.5	0.05	9.5	4	6	49.675	4	6	72.255	4	6	46.675	4	6	67.891	0.178	0.081
95	0.5	50	10.5	1	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.5	50	10.5	1.5	6.9	4	6	33.425	4	6	48.618	4	6	30.425	4	6	44.255	0.178	0.081
95	0.5	50	10.5	2	6.3	4	6	29.675	4	6	43.164	4	6	26.675	4	6	38.800	0.178	0.081
95	0.5	50	10.5	2.5	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.5	50	10.5	3	5.25	4	6	23.113	4	6	33.618	4	6	20.113	4	6	29.255	0.178	0.081
95	0.5	50	14.5	0.05	9	4	6	46.550	4	6	67.709	4	6	43.550	4	6	63.345	0.178	0.081
95	0.5	50	14.5	1	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.5	50	14.5	1.5	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.5	50	14.5	2	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.5	50	14.5	2.5	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.5	50	14.5	3	5	4	6	21.550	4	6	31.345	4	6	18.550	4	6	26.982	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.6	0.05	4.5	0.05	4.2	1	4	21.638	1	4	31.473	1	4	19.638	1	4	28.564	0.178	0.081
95	0.6	0.05	4.5	1	3.4	1	4	16.638	1	4	24.200	1	4	14.638	1	4	21.291	0.178	0.081
95	0.6	0.05	4.5	1.5	3.3	1	4	16.013	1	4	23.291	1	4	14.013	1	4	20.382	0.178	0.081
95	0.6	0.05	4.5	2	3.1	1	4	14.763	1	4	21.473	1	4	12.763	1	4	18.564	0.178	0.081
95	0.6	0.05	4.5	2.5	3	1	4	14.138	1	4	20.564	1	4	12.138	1	4	17.655	0.178	0.081
95	0.6	0.05	4.5	3	2.9	1	4	13.513	1	4	19.655	1	4	11.513	1	4	16.745	0.178	0.081
95	0.6	0.05	6	0.05	3.7	1	4	18.513	1	4	26.927	1	4	16.513	1	4	24.018	0.178	0.081
95	0.6	0.05	6	1	3	1	4	14.138	1	4	20.564	1	4	12.138	1	4	17.655	0.178	0.081
95	0.6	0.05	6	1.5	2.9	1	4	13.513	1	4	19.655	1	4	11.513	1	4	16.745	0.178	0.081
95	0.6	0.05	6	2	2.8	1	4	12.888	1	4	18.745	1	4	10.888	1	4	15.836	0.178	0.081
95	0.6	0.05	6	2.5	2.7	1	4	12.263	1	4	17.836	1	4	10.263	1	4	14.927	0.178	0.081
95	0.6	0.05	6	3	2.7	1	4	12.263	1	4	17.836	1	4	10.263	1	4	14.927	0.178	0.081
95	0.6	0.05	8.3	0.05	3.2	1	4	15.388	1	4	22.382	1	4	13.388	1	4	19.473	0.178	0.081
95	0.6	0.05	8.3	1	2.7	1	4	12.263	1	4	17.836	1	4	10.263	1	4	14.927	0.178	0.081
95	0.6	0.05	8.3	1.5	2.6	1	4	11.638	1	4	16.927	1	4	9.638	1	4	14.018	0.178	0.081
95	0.6	0.05	8.3	2	2.6	1	4	11.638	1	4	16.927	1	4	9.638	1	4	14.018	0.178	0.081
95	0.6	0.05	8.3	2.5	2.5	1	4	11.013	1	4	16.018	1	4	9.013	1	4	13.109	0.178	0.081
95	0.6	0.05	8.3	3	2.5	1	4	11.013	1	4	16.018	1	4	9.013	1	4	13.109	0.178	0.081
95	0.6	0.05	10.5	0.05	2.7	1	4	12.263	1	4	17.836	1	4	10.263	1	4	14.927	0.178	0.081
95	0.6	0.05	10.5	1	2.4	1	4	10.388	1	4	15.109	1	4	8.388	1	4	12.200	0.178	0.081
95	0.6	0.05	10.5	1.5	2.4	1	4	10.388	1	4	15.109	1	4	8.388	1	4	12.200	0.178	0.081
95	0.6	0.05	10.5	2	2.3	1	4	9.763	1	4	14.200	1	4	7.763	1	4	11.291	0.178	0.081
95	0.6	0.05	10.5	2.5	2.3	1	4	9.763	1	4	14.200	1	4	7.763	1	4	11.291	0.178	0.081
95	0.6	0.05	10.5	3	2.3	1	4	9.763	1	4	14.200	1	4	7.763	1	4	11.291	0.178	0.081
95	0.6	0.05	14.5	0.05	2.2	1	4	9.138	1	4	13.291	1	4	7.138	1	4	10.382	0.178	0.081
95	0.6	0.05	14.5	1	2.1	1	4	8.513	1	4	12.382	1	4	6.513	1	4	9.473	0.178	0.081
95	0.6	0.05	14.5	1.5	2.1	1	4	8.513	1	4	12.382	1	4	6.513	1	4	9.473	0.178	0.081
95	0.6	0.05	14.5	2	2.1	1	4	8.513	1	4	12.382	1	4	6.513	1	4	9.473	0.178	0.081
95	0.6	0.05	14.5	2.5	2.1	1	4	8.513	1	4	12.382	1	4	6.513	1	4	9.473	0.178	0.081
95	0.6	0.05	14.5	3	2.1	1	4	8.513	1	4	12.382	1	4	6.513	1	4	9.473	0.178	0.081
95	0.6	0.1	4.5	0.05	5.2	2	4	26.775	2	4	38.945	2	4	24.775	2	4	36.036	0.178	0.081
95	0.6	0.1	4.5	1	4.2	2	4	20.525	2	4	29.855	2	4	18.525	2	4	26.945	0.178	0.081
95	0.6	0.1	4.5	1.5	3.9	2	4	18.650	2	4	27.127	2	4	16.650	2	4	24.218	0.178	0.081
95	0.6	0.1	4.5	2	3.6	2	4	16.775	2	4	24.400	2	4	14.775	2	4	21.491	0.178	0.081
95	0.6	0.1	4.5	2.5	3.4	2	4	15.525	2	4	22.582	2	4	13.525	2	4	19.673	0.178	0.081
95	0.6	0.1	4.5	3	3.2	2	4	14.275	2	4	20.764	2	4	12.275	2	4	17.855	0.178	0.081
95	0.6	0.1	6	0.05	4.7	2	4	23.650	2	4	34.400	2	4	21.650	2	4	31.491	0.178	0.081
95	0.6	0.1	6	1	3.6	2	4	16.775	2	4	24.400	2	4	14.775	2	4	21.491	0.178	0.081
95	0.6	0.1	6	1.5	3.4	2	4	15.525	2	4	22.582	2	4	13.525	2	4	19.673	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.6	0.1	6	2	3.2	2	4	14.275	2	4	20.764	2	4	12.275	2	4	17.855	0.178	0.081
95	0.6	0.1	6	2.5	3	2	4	13.025	2	4	18.945	2	4	11.025	2	4	16.036	0.178	0.081
95	0.6	0.1	6	3	2.9	2	4	12.400	2	4	18.036	2	4	10.400	2	4	15.127	0.178	0.081
95	0.6	0.1	8.3	0.05	4.1	2	4	19.900	2	4	28.945	2	4	17.900	2	4	26.036	0.178	0.081
95	0.6	0.1	8.3	1	3.3	2	4	14.900	2	4	21.673	2	4	12.900	2	4	18.764	0.178	0.081
95	0.6	0.1	8.3	1.5	3	2	4	13.025	2	4	18.945	2	4	11.025	2	4	16.036	0.178	0.081
95	0.6	0.1	8.3	2	2.9	2	4	12.400	2	4	18.036	2	4	10.400	2	4	15.127	0.178	0.081
95	0.6	0.1	8.3	2.5	2.8	2	4	11.775	2	4	17.127	2	4	9.775	2	4	14.218	0.178	0.081
95	0.6	0.1	8.3	3	2.7	2	4	11.150	2	4	16.218	2	4	9.150	2	4	13.309	0.178	0.081
95	0.6	0.1	10.5	0.05	3.5	2	4	16.150	2	4	23.491	2	4	14.150	2	4	20.582	0.178	0.081
95	0.6	0.1	10.5	1	2.8	2	4	11.775	2	4	17.127	2	4	9.775	2	4	14.218	0.178	0.081
95	0.6	0.1	10.5	1.5	2.7	2	4	11.150	2	4	16.218	2	4	9.150	2	4	13.309	0.178	0.081
95	0.6	0.1	10.5	2	2.6	2	4	10.525	2	4	15.309	2	4	8.525	2	4	12.400	0.178	0.081
95	0.6	0.1	10.5	2.5	2.5	2	4	9.900	2	4	14.400	2	4	7.900	2	4	11.491	0.178	0.081
95	0.6	0.1	10.5	3	2.4	2	4	9.275	2	4	13.491	2	4	7.275	2	4	10.582	0.178	0.081
95	0.6	0.1	14.5	0.05	2.9	2	4	12.400	2	4	18.036	2	4	10.400	2	4	15.127	0.178	0.081
95	0.6	0.1	14.5	1	2.6	2	4	10.525	2	4	15.309	2	4	8.525	2	4	12.400	0.178	0.081
95	0.6	0.1	14.5	1.5	2.5	2	4	9.900	2	4	14.400	2	4	7.900	2	4	11.491	0.178	0.081
95	0.6	0.1	14.5	2	2.4	2	4	9.275	2	4	13.491	2	4	7.275	2	4	10.582	0.178	0.081
95	0.6	0.1	14.5	2.5	2.3	2	4	8.650	2	4	12.582	2	4	6.650	2	4	9.673	0.178	0.081
95	0.6	0.1	14.5	3	2.2	2	4	8.025	2	4	11.673	2	4	6.025	2	4	8.764	0.178	0.081
95	0.6	0.3	4.5	0.05	6	2.5	4	31.219	2.5	4	45.409	2.5	4	29.219	2.5	4	42.500	0.178	0.081
95	0.6	0.3	4.5	1	4.4	2.5	4	21.219	2.5	4	30.864	2.5	4	19.219	2.5	4	27.955	0.178	0.081
95	0.6	0.3	4.5	1.5	4.2	2.5	4	19.969	2.5	4	29.045	2.5	4	17.969	2.5	4	26.136	0.178	0.081
95	0.6	0.3	4.5	2	4	2.5	4	18.719	2.5	4	27.227	2.5	4	16.719	2.5	4	24.318	0.178	0.081
95	0.6	0.3	4.5	2.5	3.8	2.5	4	17.469	2.5	4	25.409	2.5	4	15.469	2.5	4	22.500	0.178	0.081
95	0.6	0.3	4.5	3	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.6	0.3	6	0.05	5.4	2.5	4	27.469	2.5	4	39.955	2.5	4	25.469	2.5	4	37.045	0.178	0.081
95	0.6	0.3	6	1	4	2.5	4	18.719	2.5	4	27.227	2.5	4	16.719	2.5	4	24.318	0.178	0.081
95	0.6	0.3	6	1.5	3.8	2.5	4	17.469	2.5	4	25.409	2.5	4	15.469	2.5	4	22.500	0.178	0.081
95	0.6	0.3	6	2	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.6	0.3	6	2.5	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.6	0.3	6	3	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.6	0.3	8.3	0.05	4.8	2.5	4	23.719	2.5	4	34.500	2.5	4	21.719	2.5	4	31.591	0.178	0.081
95	0.6	0.3	8.3	1	3.8	2.5	4	17.469	2.5	4	25.409	2.5	4	15.469	2.5	4	22.500	0.178	0.081
95	0.6	0.3	8.3	1.5	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.6	0.3	8.3	2	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.6	0.3	8.3	2.5	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.6	0.3	8.3	3	3.1	2.5	4	13.094	2.5	4	19.045	2.5	4	11.094	2.5	4	16.136	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.6	0.3	10.5	0.05	4.2	2.5	4	19.969	2.5	4	29.045	2.5	4	17.969	2.5	4	26.136	0.178	0.081
95	0.6	0.3	10.5	1	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.6	0.3	10.5	1.5	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.6	0.3	10.5	2	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.6	0.3	10.5	2.5	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.6	0.3	10.5	3	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.6	0.3	14.5	0.05	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081
95	0.6	0.3	14.5	1	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.6	0.3	14.5	1.5	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.6	0.3	14.5	2	2.8	2.5	4	11.219	2.5	4	16.318	2.5	4	9.219	2.5	4	13.409	0.178	0.081
95	0.6	0.3	14.5	2.5	2.7	2.5	4	10.594	2.5	4	15.409	2.5	4	8.594	2.5	4	12.500	0.178	0.081
95	0.6	0.3	14.5	3	2.6	2.5	4	9.969	2.5	4	14.500	2.5	4	7.969	2.5	4	11.591	0.178	0.081
95	0.6	0.5	4.5	0.05	6.8	2.5	4	36.219	2.5	4	52.682	2.5	4	34.219	2.5	4	49.773	0.178	0.081
95	0.6	0.5	4.5	1	5	2.5	4	24.969	2.5	4	36.318	2.5	4	22.969	2.5	4	33.409	0.178	0.081
95	0.6	0.5	4.5	1.5	4.7	2.5	4	23.094	2.5	4	33.591	2.5	4	21.094	2.5	4	30.682	0.178	0.081
95	0.6	0.5	4.5	2	4.4	2.5	4	21.219	2.5	4	30.864	2.5	4	19.219	2.5	4	27.955	0.178	0.081
95	0.6	0.5	4.5	2.5	4.2	2.5	4	19.969	2.5	4	29.045	2.5	4	17.969	2.5	4	26.136	0.178	0.081
95	0.6	0.5	4.5	3	4	2.5	4	18.719	2.5	4	27.227	2.5	4	16.719	2.5	4	24.318	0.178	0.081
95	0.6	0.5	6	0.05	6.1	2.5	4	31.844	2.5	4	46.318	2.5	4	29.844	2.5	4	43.409	0.178	0.081
95	0.6	0.5	6	1	5.2	2.5	4	26.219	2.5	4	38.136	2.5	4	24.219	2.5	4	35.227	0.178	0.081
95	0.6	0.5	6	1.5	7	2.5	4	37.469	2.5	4	54.500	2.5	4	35.469	2.5	4	51.591	0.178	0.081
95	0.6	0.5	6	2	4.4	2.5	4	21.219	2.5	4	30.864	2.5	4	19.219	2.5	4	27.955	0.178	0.081
95	0.6	0.5	6	2.5	3.9	2.5	4	18.094	2.5	4	26.318	2.5	4	16.094	2.5	4	23.409	0.178	0.081
95	0.6	0.5	6	3	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.6	0.5	8.3	0.05	5.5	2.5	4	28.094	2.5	4	40.864	2.5	4	26.094	2.5	4	37.955	0.178	0.081
95	0.6	0.5	8.3	1	4.4	2.5	4	21.219	2.5	4	30.864	2.5	4	19.219	2.5	4	27.955	0.178	0.081
95	0.6	0.5	8.3	1.5	4.1	2.5	4	19.344	2.5	4	28.136	2.5	4	17.344	2.5	4	25.227	0.178	0.081
95	0.6	0.5	8.3	2	3.9	2.5	4	18.094	2.5	4	26.318	2.5	4	16.094	2.5	4	23.409	0.178	0.081
95	0.6	0.5	8.3	2.5	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.6	0.5	8.3	3	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.6	0.5	10.5	0.05	4.9	2.5	4	24.344	2.5	4	35.409	2.5	4	22.344	2.5	4	32.500	0.178	0.081
95	0.6	0.5	10.5	1	4.1	2.5	4	19.344	2.5	4	28.136	2.5	4	17.344	2.5	4	25.227	0.178	0.081
95	0.6	0.5	10.5	1.5	3.9	2.5	4	18.094	2.5	4	26.318	2.5	4	16.094	2.5	4	23.409	0.178	0.081
95	0.6	0.5	10.5	2	3.7	2.5	4	16.844	2.5	4	24.500	2.5	4	14.844	2.5	4	21.591	0.178	0.081
95	0.6	0.5	10.5	2.5	3.5	2.5	4	15.594	2.5	4	22.682	2.5	4	13.594	2.5	4	19.773	0.178	0.081
95	0.6	0.5	10.5	3	3.3	2.5	4	14.344	2.5	4	20.864	2.5	4	12.344	2.5	4	17.955	0.178	0.081
95	0.6	0.5	14.5	0.05	4.3	2.5	4	20.594	2.5	4	29.955	2.5	4	18.594	2.5	4	27.045	0.178	0.081
95	0.6	0.5	14.5	1	3.8	2.5	4	17.469	2.5	4	25.409	2.5	4	15.469	2.5	4	22.500	0.178	0.081
95	0.6	0.5	14.5	1.5	3.6	2.5	4	16.219	2.5	4	23.591	2.5	4	14.219	2.5	4	20.682	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.6	0.5	14.5	2	3.4	2.5	4	14.969	2.5	4	21.773	2.5	4	12.969	2.5	4	18.864	0.178	0.081
95	0.6	0.5	14.5	2.5	3.2	2.5	4	13.719	2.5	4	19.955	2.5	4	11.719	2.5	4	17.045	0.178	0.081
95	0.6	0.5	14.5	3	3	2.5	4	12.469	2.5	4	18.136	2.5	4	10.469	2.5	4	15.227	0.178	0.081
95	0.6	1	4.5	0.05	7.4	3	6	37.663	3	6	54.782	3	6	34.663	3	6	50.418	0.178	0.081
95	0.6	1	4.5	1	5.7	3	6	27.038	3	6	39.327	3	6	24.038	3	6	34.964	0.178	0.081
95	0.6	1	4.5	1.5	5.2	3	6	23.913	3	6	34.782	3	6	20.913	3	6	30.418	0.178	0.081
95	0.6	1	4.5	2	4.8	3	6	21.413	3	6	31.145	3	6	18.413	3	6	26.782	0.178	0.081
95	0.6	1	4.5	2.5	4.5	3	6	19.538	3	6	28.418	3	6	16.538	3	6	24.055	0.178	0.081
95	0.6	1	4.5	3	4.3	3	6	18.288	3	6	26.600	3	6	15.288	3	6	22.236	0.178	0.081
95	0.6	1	6	0.05	6.9	3	6	34.538	3	6	50.236	3	6	31.538	3	6	45.873	0.178	0.081
95	0.6	1	6	1	5.2	3	6	23.913	3	6	34.782	3	6	20.913	3	6	30.418	0.178	0.081
95	0.6	1	6	1.5	4.8	3	6	21.413	3	6	31.145	3	6	18.413	3	6	26.782	0.178	0.081
95	0.6	1	6	2	4.5	3	6	19.538	3	6	28.418	3	6	16.538	3	6	24.055	0.178	0.081
95	0.6	1	6	2.5	4.2	3	6	17.663	3	6	25.691	3	6	14.663	3	6	21.327	0.178	0.081
95	0.6	1	6	3	4	3	6	16.413	3	6	23.873	3	6	13.413	3	6	19.509	0.178	0.081
95	0.6	1	8.3	0.05	6.3	3	6	30.788	3	6	44.782	3	6	27.788	3	6	40.418	0.178	0.081
95	0.6	1	8.3	1	4.8	3	6	21.413	3	6	31.145	3	6	18.413	3	6	26.782	0.178	0.081
95	0.6	1	8.3	1.5	4.5	3	6	19.538	3	6	28.418	3	6	16.538	3	6	24.055	0.178	0.081
95	0.6	1	8.3	2	4.2	3	6	17.663	3	6	25.691	3	6	14.663	3	6	21.327	0.178	0.081
95	0.6	1	8.3	2.5	3.9	3	6	15.788	3	6	22.964	3	6	12.788	3	6	18.600	0.178	0.081
95	0.6	1	8.3	3	3.7	3	6	14.538	3	6	21.145	3	6	11.538	3	6	16.782	0.178	0.081
95	0.6	1	10.5	0.05	5.7	3	6	27.038	3	6	39.327	3	6	24.038	3	6	34.964	0.178	0.081
95	0.6	1	10.5	1	4.5	3	6	19.538	3	6	28.418	3	6	16.538	3	6	24.055	0.178	0.081
95	0.6	1	10.5	1.5	4.2	3	6	17.663	3	6	25.691	3	6	14.663	3	6	21.327	0.178	0.081
95	0.6	1	10.5	2	3.9	3	6	15.788	3	6	22.964	3	6	12.788	3	6	18.600	0.178	0.081
95	0.6	1	10.5	2.5	3.6	3	6	13.913	3	6	20.236	3	6	10.913	3	6	15.873	0.178	0.081
95	0.6	1	10.5	3	3.4	3	6	12.663	3	6	18.418	3	6	9.663	3	6	14.055	0.178	0.081
95	0.6	1	14.5	0.05	5.1	3	6	23.288	3	6	33.873	3	6	20.288	3	6	29.509	0.178	0.081
95	0.6	1	14.5	1	4.1	3	6	17.038	3	6	24.782	3	6	14.038	3	6	20.418	0.178	0.081
95	0.6	1	14.5	1.5	3.8	3	6	15.163	3	6	22.055	3	6	12.163	3	6	17.691	0.178	0.081
95	0.6	1	14.5	2	3.5	3	6	13.288	3	6	19.327	3	6	10.288	3	6	14.964	0.178	0.081
95	0.6	1	14.5	2.5	3.3	3	6	12.038	3	6	17.509	3	6	9.038	3	6	13.145	0.178	0.081
95	0.6	1	14.5	3	3.1	3	6	10.788	3	6	15.691	3	6	7.788	3	6	11.327	0.178	0.081
95	0.6	3	4.5	0.05	8.2	3.5	6	42.106	3.5	6	61.245	3.5	6	39.106	3.5	6	56.882	0.178	0.081
95	0.6	3	4.5	1	6.2	3.5	6	29.606	3.5	6	43.064	3.5	6	26.606	3.5	6	38.700	0.178	0.081
95	0.6	3	4.5	1.5	5.8	3.5	6	27.106	3.5	6	39.427	3.5	6	24.106	3.5	6	35.064	0.178	0.081
95	0.6	3	4.5	2	5.5	3.5	6	25.231	3.5	6	36.700	3.5	6	22.231	3.5	6	32.336	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.6	3	4.5	2.5	5.1	3.5	6	22.731	3.5	6	33.064	3.5	6	19.731	3.5	6	28.700	0.178	0.081
95	0.6	3	4.5	3	4.8	3.5	6	20.856	3.5	6	30.336	3.5	6	17.856	3.5	6	25.973	0.178	0.081
95	0.6	3	6	0.05	7.6	3.5	6	38.356	3.5	6	55.791	3.5	6	35.356	3.5	6	51.427	0.178	0.081
95	0.6	3	6	1	6	3.5	6	28.356	3.5	6	41.245	3.5	6	25.356	3.5	6	36.882	0.178	0.081
95	0.6	3	6	1.5	5.6	3.5	6	25.856	3.5	6	37.609	3.5	6	22.856	3.5	6	33.245	0.178	0.081
95	0.6	3	6	2	5.3	3.5	6	23.981	3.5	6	34.882	3.5	6	20.981	3.5	6	30.518	0.178	0.081
95	0.6	3	6	2.5	4.9	3.5	6	21.481	3.5	6	31.245	3.5	6	18.481	3.5	6	26.882	0.178	0.081
95	0.6	3	6	3	4.5	3.5	6	18.981	3.5	6	27.609	3.5	6	15.981	3.5	6	23.245	0.178	0.081
95	0.6	3	8.3	0.05	7	3.5	6	34.606	3.5	6	50.336	3.5	6	31.606	3.5	6	45.973	0.178	0.081
95	0.6	3	8.3	1	5.5	3.5	6	25.231	3.5	6	36.700	3.5	6	22.231	3.5	6	32.336	0.178	0.081
95	0.6	3	8.3	1.5	5.2	3.5	6	23.356	3.5	6	33.973	3.5	6	20.356	3.5	6	29.609	0.178	0.081
95	0.6	3	8.3	2	4.8	3.5	6	20.856	3.5	6	30.336	3.5	6	17.856	3.5	6	25.973	0.178	0.081
95	0.6	3	8.3	2.5	4.5	3.5	6	18.981	3.5	6	27.609	3.5	6	15.981	3.5	6	23.245	0.178	0.081
95	0.6	3	8.3	3	4.2	3.5	6	17.106	3.5	6	24.882	3.5	6	14.106	3.5	6	20.518	0.178	0.081
95	0.6	3	10.5	0.05	6.4	3.5	6	30.856	3.5	6	44.882	3.5	6	27.856	3.5	6	40.518	0.178	0.081
95	0.6	3	10.5	1	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.6	3	10.5	1.5	4.6	3.5	6	19.606	3.5	6	28.518	3.5	6	16.606	3.5	6	24.155	0.178	0.081
95	0.6	3	10.5	2	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.6	3	10.5	2.5	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.6	3	10.5	3	3.8	3.5	6	14.606	3.5	6	21.245	3.5	6	11.606	3.5	6	16.882	0.178	0.081
95	0.6	3	14.5	0.05	5.8	3.5	6	27.106	3.5	6	39.427	3.5	6	24.106	3.5	6	35.064	0.178	0.081
95	0.6	3	14.5	1	4.8	3.5	6	20.856	3.5	6	30.336	3.5	6	17.856	3.5	6	25.973	0.178	0.081
95	0.6	3	14.5	1.5	4.5	3.5	6	18.981	3.5	6	27.609	3.5	6	15.981	3.5	6	23.245	0.178	0.081
95	0.6	3	14.5	2	4.2	3.5	6	17.106	3.5	6	24.882	3.5	6	14.106	3.5	6	20.518	0.178	0.081
95	0.6	3	14.5	2.5	3.8	3.5	6	14.606	3.5	6	21.245	3.5	6	11.606	3.5	6	16.882	0.178	0.081
95	0.6	3	14.5	3	3.5	3.5	6	12.731	3.5	6	18.518	3.5	6	9.731	3.5	6	14.155	0.178	0.081
95	0.6	5	4.5	0.05	9	3.5	6	47.106	3.5	6	68.518	3.5	6	44.106	3.5	6	64.155	0.178	0.081
95	0.6	5	4.5	1	6.8	3.5	6	33.356	3.5	6	48.518	3.5	6	30.356	3.5	6	44.155	0.178	0.081
95	0.6	5	4.5	1.5	6.4	3.5	6	30.856	3.5	6	44.882	3.5	6	27.856	3.5	6	40.518	0.178	0.081
95	0.6	5	4.5	2	6	3.5	6	28.356	3.5	6	41.245	3.5	6	25.356	3.5	6	36.882	0.178	0.081
95	0.6	5	4.5	2.5	5.6	3.5	6	25.856	3.5	6	37.609	3.5	6	22.856	3.5	6	33.245	0.178	0.081
95	0.6	5	4.5	3	5.2	3.5	6	23.356	3.5	6	33.973	3.5	6	20.356	3.5	6	29.609	0.178	0.081
95	0.6	5	6	0.05	8.4	3.5	6	43.356	3.5	6	63.064	3.5	6	40.356	3.5	6	58.700	0.178	0.081
95	0.6	5	6	1	6.5	3.5	6	31.481	3.5	6	45.791	3.5	6	28.481	3.5	6	41.427	0.178	0.081
95	0.6	5	6	1.5	6.1	3.5	6	28.981	3.5	6	42.155	3.5	6	25.981	3.5	6	37.791	0.178	0.081
95	0.6	5	6	2	5.7	3.5	6	26.481	3.5	6	38.518	3.5	6	23.481	3.5	6	34.155	0.178	0.081
95	0.6	5	6	2.5	5.3	3.5	6	23.981	3.5	6	34.882	3.5	6	20.981	3.5	6	30.518	0.178	0.081
95	0.6	5	6	3	4.9	3.5	6	21.481	3.5	6	31.245	3.5	6	18.481	3.5	6	26.882	0.178	0.081
95	0.6	5	8.3	0.05	7.7	3.5	6	38.981	3.5	6	56.700	3.5	6	35.981	3.5	6	52.336	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.6	5	8.3	1	6.2	3.5	6	29.606	3.5	6	43.064	3.5	6	26.606	3.5	6	38.700	0.178	0.081
95	0.6	5	8.3	1.5	5.8	3.5	6	27.106	3.5	6	39.427	3.5	6	24.106	3.5	6	35.064	0.178	0.081
95	0.6	5	8.3	2	5.4	3.5	6	24.606	3.5	6	35.791	3.5	6	21.606	3.5	6	31.427	0.178	0.081
95	0.6	5	8.3	2.5	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.6	5	8.3	3	4.6	3.5	6	19.606	3.5	6	28.518	3.5	6	16.606	3.5	6	24.155	0.178	0.081
95	0.6	5	10.5	0.05	7.1	3.5	6	35.231	3.5	6	51.245	3.5	6	32.231	3.5	6	46.882	0.178	0.081
95	0.6	5	10.5	1	5.8	3.5	6	27.106	3.5	6	39.427	3.5	6	24.106	3.5	6	35.064	0.178	0.081
95	0.6	5	10.5	1.5	5.4	3.5	6	24.606	3.5	6	35.791	3.5	6	21.606	3.5	6	31.427	0.178	0.081
95	0.6	5	10.5	2	5	3.5	6	22.106	3.5	6	32.155	3.5	6	19.106	3.5	6	27.791	0.178	0.081
95	0.6	5	10.5	2.5	4.7	3.5	6	20.231	3.5	6	29.427	3.5	6	17.231	3.5	6	25.064	0.178	0.081
95	0.6	5	10.5	3	4.3	3.5	6	17.731	3.5	6	25.791	3.5	6	14.731	3.5	6	21.427	0.178	0.081
95	0.6	5	14.5	0.05	6.5	3.5	6	31.481	3.5	6	45.791	3.5	6	28.481	3.5	6	41.427	0.178	0.081
95	0.6	5	14.5	1	5.7	3.5	6	26.481	3.5	6	38.518	3.5	6	23.481	3.5	6	34.155	0.178	0.081
95	0.6	5	14.5	1.5	5.2	3.5	6	23.356	3.5	6	33.973	3.5	6	20.356	3.5	6	29.609	0.178	0.081
95	0.6	5	14.5	2	4.8	3.5	6	20.856	3.5	6	30.336	3.5	6	17.856	3.5	6	25.973	0.178	0.081
95	0.6	5	14.5	2.5	4.4	3.5	6	18.356	3.5	6	26.700	3.5	6	15.356	3.5	6	22.336	0.178	0.081
95	0.6	5	14.5	3	4	3.5	6	15.856	3.5	6	23.064	3.5	6	12.856	3.5	6	18.700	0.178	0.081
95	0.6	10	4.5	0.05	9.8	4	6	51.550	4	6	74.982	4	6	48.550	4	6	70.618	0.178	0.081
95	0.6	10	4.5	1	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.6	10	4.5	1.5	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.6	10	4.5	2	6.6	4	6	31.550	4	6	45.891	4	6	28.550	4	6	41.527	0.178	0.081
95	0.6	10	4.5	2.5	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.6	10	4.5	3	5.8	4	6	26.550	4	6	38.618	4	6	23.550	4	6	34.255	0.178	0.081
95	0.6	10	6	0.05	9.3	4	6	48.425	4	6	70.436	4	6	45.425	4	6	66.073	0.178	0.081
95	0.6	10	6	1	7.2	4	6	35.300	4	6	51.345	4	6	32.300	4	6	46.982	0.178	0.081
95	0.6	10	6	1.5	6.7	4	6	32.175	4	6	46.800	4	6	29.175	4	6	42.436	0.178	0.081
95	0.6	10	6	2	6.3	4	6	29.675	4	6	43.164	4	6	26.675	4	6	38.800	0.178	0.081
95	0.6	10	6	2.5	5.9	4	6	27.175	4	6	39.527	4	6	24.175	4	6	35.164	0.178	0.081
95	0.6	10	6	3	5.5	4	6	24.675	4	6	35.891	4	6	21.675	4	6	31.527	0.178	0.081
95	0.6	10	8.3	0.05	8.7	4	6	44.675	4	6	64.982	4	6	41.675	4	6	60.618	0.178	0.081
95	0.6	10	8.3	1	6.8	4	6	32.800	4	6	47.709	4	6	29.800	4	6	43.345	0.178	0.081
95	0.6	10	8.3	1.5	6.4	4	6	30.300	4	6	44.073	4	6	27.300	4	6	39.709	0.178	0.081
95	0.6	10	8.3	2	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.6	10	8.3	2.5	5.6	4	6	25.300	4	6	36.800	4	6	22.300	4	6	32.436	0.178	0.081
95	0.6	10	8.3	3	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.6	10	10.5	0.05	8.1	4	6	40.925	4	6	59.527	4	6	37.925	4	6	55.164	0.178	0.081
95	0.6	10	10.5	1	6.4	4	6	30.300	4	6	44.073	4	6	27.300	4	6	39.709	0.178	0.081
95	0.6	10	10.5	1.5	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.6	10	10.5	2	5.6	4	6	25.300	4	6	36.800	4	6	22.300	4	6	32.436	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.6	10	10.5	2.5	5.2	4	6	22.800	4	6	33.164	4	6	19.800	4	6	28.800	0.178	0.081
95	0.6	10	10.5	3	4.8	4	6	20.300	4	6	29.527	4	6	17.300	4	6	25.164	0.178	0.081
95	0.6	10	14.5	0.05	7.6	4	6	37.800	4	6	54.982	4	6	34.800	4	6	50.618	0.178	0.081
95	0.6	10	14.5	1	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.6	10	14.5	1.5	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.6	10	14.5	2	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081
95	0.6	10	14.5	2.5	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.6	10	14.5	3	4.5	4	6	18.425	4	6	26.800	4	6	15.425	4	6	22.436	0.178	0.081
95	0.6	30	4.5	0.05	10.4	4	6	55.300	4	6	80.436	4	6	52.300	4	6	76.073	0.178	0.081
95	0.6	30	4.5	1	8.2	4	6	41.550	4	6	60.436	4	6	38.550	4	6	56.073	0.178	0.081
95	0.6	30	4.5	1.5	7.8	4	6	39.050	4	6	56.800	4	6	36.050	4	6	52.436	0.178	0.081
95	0.6	30	4.5	2	7.4	4	6	36.550	4	6	53.164	4	6	33.550	4	6	48.800	0.178	0.081
95	0.6	30	4.5	2.5	7	4	6	34.050	4	6	49.527	4	6	31.050	4	6	45.164	0.178	0.081
95	0.6	30	4.5	3	6.4	4	6	30.300	4	6	44.073	4	6	27.300	4	6	39.709	0.178	0.081
95	0.6	30	6	0.05	10	4	6	52.800	4	6	76.800	4	6	49.800	4	6	72.436	0.178	0.081
95	0.6	30	6	1	7.6	4	6	37.800	4	6	54.982	4	6	34.800	4	6	50.618	0.178	0.081
95	0.6	30	6	1.5	7.2	4	6	35.300	4	6	51.345	4	6	32.300	4	6	46.982	0.178	0.081
95	0.6	30	6	2	6.8	4	6	32.800	4	6	47.709	4	6	29.800	4	6	43.345	0.178	0.081
95	0.6	30	6	2.5	6.4	4	6	30.300	4	6	44.073	4	6	27.300	4	6	39.709	0.178	0.081
95	0.6	30	6	3	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.6	30	8.3	0.05	9.6	4	6	50.300	4	6	73.164	4	6	47.300	4	6	68.800	0.178	0.081
95	0.6	30	8.3	1	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.6	30	8.3	1.5	6.9	4	6	33.425	4	6	48.618	4	6	30.425	4	6	44.255	0.178	0.081
95	0.6	30	8.3	2	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.6	30	8.3	2.5	6	4	6	27.800	4	6	40.436	4	6	24.800	4	6	36.073	0.178	0.081
95	0.6	30	8.3	3	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.6	30	10.5	0.05	9.1	4	6	47.175	4	6	68.618	4	6	44.175	4	6	64.255	0.178	0.081
95	0.6	30	10.5	1	6.9	4	6	33.425	4	6	48.618	4	6	30.425	4	6	44.255	0.178	0.081
95	0.6	30	10.5	1.5	6.5	4	6	30.925	4	6	44.982	4	6	27.925	4	6	40.618	0.178	0.081
95	0.6	30	10.5	2	6.1	4	6	28.425	4	6	41.345	4	6	25.425	4	6	36.982	0.178	0.081
95	0.6	30	10.5	2.5	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.6	30	10.5	3	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081
95	0.6	30	14.5	0.05	8.7	4	6	44.675	4	6	64.982	4	6	41.675	4	6	60.618	0.178	0.081
95	0.6	30	14.5	1	6.6	4	6	31.550	4	6	45.891	4	6	28.550	4	6	41.527	0.178	0.081
95	0.6	30	14.5	1.5	6.1	4	6	28.425	4	6	41.345	4	6	25.425	4	6	36.982	0.178	0.081
95	0.6	30	14.5	2	5.7	4	6	25.925	4	6	37.709	4	6	22.925	4	6	33.345	0.178	0.081
95	0.6	30	14.5	2.5	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081
95	0.6	30	14.5	3	4.9	4	6	20.925	4	6	30.436	4	6	17.925	4	6	26.073	0.178	0.081
95	0.6	50	4.5	0.05	11	4	6	59.050	4	6	85.891	4	6	56.050	4	6	81.527	0.178	0.081
95	0.6	50	4.5	1	8.7	4	6	44.675	4	6	64.982	4	6	41.675	4	6	60.618	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 1			DESIGN 2			DESIGN 3			DESIGN 4			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d11	d12	d13 (Tsb)	d21	d22	d23(Tsb)	d31	d32	d33(Tsb)	d41	d42	d43(Tsb)		
95	0.6	50	4.5	1.5	8.3	4	6	42.175	4	6	61.345	4	6	39.175	4	6	56.982	0.178	0.081
95	0.6	50	4.5	2	7.9	4	6	39.675	4	6	57.709	4	6	36.675	4	6	53.345	0.178	0.081
95	0.6	50	4.5	2.5	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.6	50	4.5	3	7.1	4	6	34.675	4	6	50.436	4	6	31.675	4	6	46.073	0.178	0.081
95	0.6	50	6	0.05	10.7	4	6	57.175	4	6	83.164	4	6	54.175	4	6	78.800	0.178	0.081
95	0.6	50	6	1	8.5	4	6	43.425	4	6	63.164	4	6	40.425	4	6	58.800	0.178	0.081
95	0.6	50	6	1.5	8	4	6	40.300	4	6	58.618	4	6	37.300	4	6	54.255	0.178	0.081
95	0.6	50	6	2	7.5	4	6	37.175	4	6	54.073	4	6	34.175	4	6	49.709	0.178	0.081
95	0.6	50	6	2.5	7.1	4	6	34.675	4	6	50.436	4	6	31.675	4	6	46.073	0.178	0.081
95	0.6	50	6	3	6.7	4	6	32.175	4	6	46.800	4	6	29.175	4	6	42.436	0.178	0.081
95	0.6	50	8.3	0.05	10.4	4	6	55.300	4	6	80.436	4	6	52.300	4	6	76.073	0.178	0.081
95	0.6	50	8.3	1	8.3	4	6	42.175	4	6	61.345	4	6	39.175	4	6	56.982	0.178	0.081
95	0.6	50	8.3	1.5	7.6	4	6	37.800	4	6	54.982	4	6	34.800	4	6	50.618	0.178	0.081
95	0.6	50	8.3	2	7.2	4	6	35.300	4	6	51.345	4	6	32.300	4	6	46.982	0.178	0.081
95	0.6	50	8.3	2.5	6.6	4	6	31.550	4	6	45.891	4	6	28.550	4	6	41.527	0.178	0.081
95	0.6	50	8.3	3	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.6	50	10.5	0.05	10.1	4	6	53.425	4	6	77.709	4	6	50.425	4	6	73.345	0.178	0.081
95	0.6	50	10.5	1	7.7	4	6	38.425	4	6	55.891	4	6	35.425	4	6	51.527	0.178	0.081
95	0.6	50	10.5	1.5	7.2	4	6	35.300	4	6	51.345	4	6	32.300	4	6	46.982	0.178	0.081
95	0.6	50	10.5	2	6.6	4	6	31.550	4	6	45.891	4	6	28.550	4	6	41.527	0.178	0.081
95	0.6	50	10.5	2.5	6.2	4	6	29.050	4	6	42.255	4	6	26.050	4	6	37.891	0.178	0.081
95	0.6	50	10.5	3	5.8	4	6	26.550	4	6	38.618	4	6	23.550	4	6	34.255	0.178	0.081
95	0.6	50	14.5	0.05	9.8	4	6	51.550	4	6	74.982	4	6	48.550	4	6	70.618	0.178	0.081
95	0.6	50	14.5	1	7.3	4	6	35.925	4	6	52.255	4	6	32.925	4	6	47.891	0.178	0.081
95	0.6	50	14.5	1.5	6.8	4	6	32.800	4	6	47.709	4	6	29.800	4	6	43.345	0.178	0.081
95	0.6	50	14.5	2	6.3	4	6	29.675	4	6	43.164	4	6	26.675	4	6	38.800	0.178	0.081
95	0.6	50	14.5	2.5	5.8	4	6	26.550	4	6	38.618	4	6	23.550	4	6	34.255	0.178	0.081
95	0.6	50	14.5	3	5.3	4	6	23.425	4	6	34.073	4	6	20.425	4	6	29.709	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.2	0.05	4.5	0.05	2.5	1	4	11.619	1	4	16.900	1	4	9.619	1	4	13.991	0.178	0.081
95	0.2	0.05	4.5	1	2.45	1	4	11.306	1	4	16.445	1	4	9.306	1	4	13.536	0.178	0.081
95	0.2	0.05	4.5	1.5	2.4	1	4	10.994	1	4	15.991	1	4	8.994	1	4	13.082	0.178	0.081
95	0.2	0.05	4.5	2	2.35	1	4	10.681	1	4	15.536	1	4	8.681	1	4	12.627	0.178	0.081
95	0.2	0.05	4.5	2.5	2.3	1	4	10.369	1	4	15.082	1	4	8.369	1	4	12.173	0.178	0.081
95	0.2	0.05	4.5	3	2.25	1	4	10.056	1	4	14.627	1	4	8.056	1	4	11.718	0.178	0.081
95	0.2	0.05	6	0.05	2.05	1	4	8.806	1	4	12.809	1	4	6.806	1	4	9.900	0.178	0.081
95	0.2	0.05	6	1	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.2	0.05	6	1.5	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.2	0.05	6	2	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.2	0.05	6	2.5	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.2	0.05	6	3	1.95	1	4	8.181	1	4	11.900	1	4	6.181	1	4	8.991	0.178	0.081
95	0.2	0.05	8.3	0.05	1.85	1	4	7.556	1	4	10.991	1	4	5.556	1	4	8.082	0.178	0.081
95	0.2	0.05	8.3	1	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.2	0.05	8.3	1.5	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.2	0.05	8.3	2	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.2	0.05	8.3	2.5	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.2	0.05	8.3	3	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.2	0.05	10.5	0.05	1.7	1	4	6.619	1	4	9.627	1	4	4.619	1	4	6.718	0.178	0.081
95	0.2	0.05	10.5	1	1.7	1	4	6.619	1	4	9.627	1	4	4.619	1	4	6.718	0.178	0.081
95	0.2	0.05	10.5	1.5	1.7	1	4	6.619	1	4	9.627	1	4	4.619	1	4	6.718	0.178	0.081
95	0.2	0.05	10.5	2	1.7	1	4	6.619	1	4	9.627	1	4	4.619	1	4	6.718	0.178	0.081
95	0.2	0.05	10.5	2.5	1.7	1	4	6.619	1	4	9.627	1	4	4.619	1	4	6.718	0.178	0.081
95	0.2	0.05	10.5	3	1.7	1	4	6.619	1	4	9.627	1	4	4.619	1	4	6.718	0.178	0.081
95	0.2	0.05	14.5	0.05	1.5	1	4	5.369	1	4	7.809	1	4	3.369	1	4	4.900	0.178	0.081
95	0.2	0.05	14.5	1	1.5	1	4	5.369	1	4	7.809	1	4	3.369	1	4	4.900	0.178	0.081
95	0.2	0.05	14.5	1.5	1.5	1	4	5.369	1	4	7.809	1	4	3.369	1	4	4.900	0.178	0.081
95	0.2	0.05	14.5	2	1.5	1	4	5.369	1	4	7.809	1	4	3.369	1	4	4.900	0.178	0.081
95	0.2	0.05	14.5	2.5	1.5	1	4	5.369	1	4	7.809	1	4	3.369	1	4	4.900	0.178	0.081
95	0.2	0.05	14.5	3	1.5	1	4	5.369	1	4	7.809	1	4	3.369	1	4	4.900	0.178	0.081
95	0.2	0.1	4.5	0.05	3.45	2	4	17.050	2	4	24.800	2	4	15.050	2	4	21.891	0.178	0.081
95	0.2	0.1	4.5	1	3.2	2	4	15.488	2	4	22.527	2	4	13.488	2	4	19.618	0.178	0.081
95	0.2	0.1	4.5	1.5	2.9	2	4	13.613	2	4	19.800	2	4	11.613	2	4	16.891	0.178	0.081
95	0.2	0.1	4.5	2	2.8	2	4	12.988	2	4	18.891	2	4	10.988	2	4	15.982	0.178	0.081
95	0.2	0.1	4.5	2.5	2.7	2	4	12.363	2	4	17.982	2	4	10.363	2	4	15.073	0.178	0.081
95	0.2	0.1	4.5	3	2.6	2	4	11.738	2	4	17.073	2	4	9.738	2	4	14.164	0.178	0.081
95	0.2	0.1	6	0.05	2.55	2	4	11.425	2	4	16.618	2	4	9.425	2	4	13.709	0.178	0.081
95	0.2	0.1	6	1	2.4	2	4	10.488	2	4	15.255	2	4	8.488	2	4	12.345	0.178	0.081
95	0.2	0.1	6	1.5	2.4	2	4	10.488	2	4	15.255	2	4	8.488	2	4	12.345	0.178	0.081
95	0.2	0.1	6	2	2.3	2	4	9.863	2	4	14.345	2	4	7.863	2	4	11.436	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.2	0.1	6	2.5	2.2	2	4	9.238	2	4	13.436	2	4	7.238	2	4	10.527	0.178	0.081
95	0.2	0.1	6	3	2.15	2	4	8.925	2	4	12.982	2	4	6.925	2	4	10.073	0.178	0.081
95	0.2	0.1	8.3	0.05	2.1	2	4	8.613	2	4	12.527	2	4	6.613	2	4	9.618	0.178	0.081
95	0.2	0.1	8.3	1	2.1	2	4	8.613	2	4	12.527	2	4	6.613	2	4	9.618	0.178	0.081
95	0.2	0.1	8.3	1.5	2.1	2	4	8.613	2	4	12.527	2	4	6.613	2	4	9.618	0.178	0.081
95	0.2	0.1	8.3	2	2.1	2	4	8.613	2	4	12.527	2	4	6.613	2	4	9.618	0.178	0.081
95	0.2	0.1	8.3	2.5	2.1	2	4	8.613	2	4	12.527	2	4	6.613	2	4	9.618	0.178	0.081
95	0.2	0.1	8.3	3	2.05	2	4	8.300	2	4	12.073	2	4	6.300	2	4	9.164	0.178	0.081
95	0.2	0.1	10.5	0.05	2.05	2	4	8.300	2	4	12.073	2	4	6.300	2	4	9.164	0.178	0.081
95	0.2	0.1	10.5	1	2	2	4	7.988	2	4	11.618	2	4	5.988	2	4	8.709	0.178	0.081
95	0.2	0.1	10.5	1.5	2	2	4	7.988	2	4	11.618	2	4	5.988	2	4	8.709	0.178	0.081
95	0.2	0.1	10.5	2	2	2	4	7.988	2	4	11.618	2	4	5.988	2	4	8.709	0.178	0.081
95	0.2	0.1	10.5	2.5	2	2	4	7.988	2	4	11.618	2	4	5.988	2	4	8.709	0.178	0.081
95	0.2	0.1	10.5	3	2	2	4	7.988	2	4	11.618	2	4	5.988	2	4	8.709	0.178	0.081
95	0.2	0.1	14.5	0.05	1.7	2	4	6.113	2	4	8.891	2	4	4.113	2	4	5.982	0.178	0.081
95	0.2	0.1	14.5	1	1.7	2	4	6.113	2	4	8.891	2	4	4.113	2	4	5.982	0.178	0.081
95	0.2	0.1	14.5	1.5	1.7	2	4	6.113	2	4	8.891	2	4	4.113	2	4	5.982	0.178	0.081
95	0.2	0.1	14.5	2	1.7	2	4	6.113	2	4	8.891	2	4	4.113	2	4	5.982	0.178	0.081
95	0.2	0.1	14.5	2.5	1.7	2	4	6.113	2	4	8.891	2	4	4.113	2	4	5.982	0.178	0.081
95	0.2	0.1	14.5	3	1.7	2	4	6.113	2	4	8.891	2	4	4.113	2	4	5.982	0.178	0.081
95	0.2	0.3	4.5	0.05	4.5	2.5	4	23.359	2.5	4	33.977	2.5	4	21.359	2.5	4	31.068	0.178	0.081
95	0.2	0.3	4.5	1	3.9	2.5	4	19.609	2.5	4	28.523	2.5	4	17.609	2.5	4	25.614	0.178	0.081
95	0.2	0.3	4.5	1.5	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.2	0.3	4.5	2	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.2	0.3	4.5	2.5	3.1	2.5	4	14.609	2.5	4	21.250	2.5	4	12.609	2.5	4	18.341	0.178	0.081
95	0.2	0.3	4.5	3	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.2	0.3	6	0.05	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081
95	0.2	0.3	6	1	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.2	0.3	6	1.5	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.2	0.3	6	2	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.2	0.3	6	2.5	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.2	0.3	6	3	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.2	0.3	8.3	0.05	2.75	2.5	4	12.422	2.5	4	18.068	2.5	4	10.422	2.5	4	15.159	0.178	0.081
95	0.2	0.3	8.3	1	2.7	2.5	4	12.109	2.5	4	17.614	2.5	4	10.109	2.5	4	14.705	0.178	0.081
95	0.2	0.3	8.3	1.5	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.2	0.3	8.3	2	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.2	0.3	8.3	2.5	2.5	2.5	4	10.859	2.5	4	15.795	2.5	4	8.859	2.5	4	12.886	0.178	0.081
95	0.2	0.3	8.3	3	2.4	2.5	4	10.234	2.5	4	14.886	2.5	4	8.234	2.5	4	11.977	0.178	0.081
95	0.2	0.3	10.5	0.05	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.2	0.3	10.5	1	2.5	2.5	4	10.859	2.5	4	15.795	2.5	4	8.859	2.5	4	12.886	0.178	0.081
95	0.2	0.3	10.5	1.5	2.5	2.5	4	10.859	2.5	4	15.795	2.5	4	8.859	2.5	4	12.886	0.178	0.081
95	0.2	0.3	10.5	2	2.4	2.5	4	10.234	2.5	4	14.886	2.5	4	8.234	2.5	4	11.977	0.178	0.081
95	0.2	0.3	10.5	2.5	2.3	2.5	4	9.609	2.5	4	13.977	2.5	4	7.609	2.5	4	11.068	0.178	0.081
95	0.2	0.3	10.5	3	2.25	2.5	4	9.297	2.5	4	13.523	2.5	4	7.297	2.5	4	10.614	0.178	0.081
95	0.2	0.3	14.5	0.05	2.05	2.5	4	8.047	2.5	4	11.705	2.5	4	6.047	2.5	4	8.795	0.178	0.081
95	0.2	0.3	14.5	1	2	2.5	4	7.734	2.5	4	11.250	2.5	4	5.734	2.5	4	8.341	0.178	0.081
95	0.2	0.3	14.5	1.5	2	2.5	4	7.734	2.5	4	11.250	2.5	4	5.734	2.5	4	8.341	0.178	0.081
95	0.2	0.3	14.5	2	2	2.5	4	7.734	2.5	4	11.250	2.5	4	5.734	2.5	4	8.341	0.178	0.081
95	0.2	0.3	14.5	2.5	2	2.5	4	7.734	2.5	4	11.250	2.5	4	5.734	2.5	4	8.341	0.178	0.081
95	0.2	0.3	14.5	3	1.95	2.5	4	7.422	2.5	4	10.795	2.5	4	5.422	2.5	4	7.886	0.178	0.081
95	0.2	0.5	4.5	0.05	4.7	2.5	4	24.609	2.5	4	35.795	2.5	4	22.609	2.5	4	32.886	0.178	0.081
95	0.2	0.5	4.5	1	4.1	2.5	4	20.859	2.5	4	30.341	2.5	4	18.859	2.5	4	27.432	0.178	0.081
95	0.2	0.5	4.5	1.5	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.2	0.5	4.5	2	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.2	0.5	4.5	2.5	3.15	2.5	4	14.922	2.5	4	21.705	2.5	4	12.922	2.5	4	18.795	0.178	0.081
95	0.2	0.5	4.5	3	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.2	0.5	6	0.05	4	2.5	4	20.234	2.5	4	29.432	2.5	4	18.234	2.5	4	26.523	0.178	0.081
95	0.2	0.5	6	1	3.9	2.5	4	19.609	2.5	4	28.523	2.5	4	17.609	2.5	4	25.614	0.178	0.081
95	0.2	0.5	6	1.5	3.8	2.5	4	18.984	2.5	4	27.614	2.5	4	16.984	2.5	4	24.705	0.178	0.081
95	0.2	0.5	6	2	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.2	0.5	6	2.5	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.2	0.5	6	3	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081
95	0.2	0.5	8.3	0.05	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.2	0.5	8.3	1	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.2	0.5	8.3	1.5	2.9	2.5	4	13.359	2.5	4	19.432	2.5	4	11.359	2.5	4	16.523	0.178	0.081
95	0.2	0.5	8.3	2	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.2	0.5	8.3	2.5	2.7	2.5	4	12.109	2.5	4	17.614	2.5	4	10.109	2.5	4	14.705	0.178	0.081
95	0.2	0.5	8.3	3	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.2	0.5	10.5	0.05	3.1	2.5	4	14.609	2.5	4	21.250	2.5	4	12.609	2.5	4	18.341	0.178	0.081
95	0.2	0.5	10.5	1	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.2	0.5	10.5	1.5	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.2	0.5	10.5	2	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.2	0.5	10.5	2.5	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.2	0.5	10.5	3	2.5	2.5	4	10.859	2.5	4	15.795	2.5	4	8.859	2.5	4	12.886	0.178	0.081
95	0.2	0.5	14.5	0.05	2.3	2.5	4	9.609	2.5	4	13.977	2.5	4	7.609	2.5	4	11.068	0.178	0.081
95	0.2	0.5	14.5	1	2.3	2.5	4	9.609	2.5	4	13.977	2.5	4	7.609	2.5	4	11.068	0.178	0.081
95	0.2	0.5	14.5	1.5	2.2	2.5	4	8.984	2.5	4	13.068	2.5	4	6.984	2.5	4	10.159	0.178	0.081
95	0.2	0.5	14.5	2	2.2	2.5	4	8.984	2.5	4	13.068	2.5	4	6.984	2.5	4	10.159	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.2	0.5	14.5	2.5	2.1	2.5	4	8.359	2.5	4	12.159	2.5	4	6.359	2.5	4	9.250	0.178	0.081
95	0.2	0.5	14.5	3	2.1	2.5	4	8.359	2.5	4	12.159	2.5	4	6.359	2.5	4	9.250	0.178	0.081
95	0.2	1	4.5	0.05	5.1	3	6	25.106	3	6	36.518	3	6	22.106	3	6	32.155	0.178	0.081
95	0.2	1	4.5	1	4.4	3	6	20.731	3	6	30.155	3	6	17.731	3	6	25.791	0.178	0.081
95	0.2	1	4.5	1.5	4	3	6	18.231	3	6	26.518	3	6	15.231	3	6	22.155	0.178	0.081
95	0.2	1	4.5	2	3.6	3	6	15.731	3	6	22.882	3	6	12.731	3	6	18.518	0.178	0.081
95	0.2	1	4.5	2.5	3.3	3	6	13.856	3	6	20.155	3	6	10.856	3	6	15.791	0.178	0.081
95	0.2	1	4.5	3	3.1	3	6	12.606	3	6	18.336	3	6	9.606	3	6	13.973	0.178	0.081
95	0.2	1	6	0.05	5.1	3	6	25.106	3	6	36.518	3	6	22.106	3	6	32.155	0.178	0.081
95	0.2	1	6	1	5	3	6	24.481	3	6	35.609	3	6	21.481	3	6	31.245	0.178	0.081
95	0.2	1	6	1.5	4.9	3	6	23.856	3	6	34.700	3	6	20.856	3	6	30.336	0.178	0.081
95	0.2	1	6	2	4.7	3	6	22.606	3	6	32.882	3	6	19.606	3	6	28.518	0.178	0.081
95	0.2	1	6	2.5	4.5	3	6	21.356	3	6	31.064	3	6	18.356	3	6	26.700	0.178	0.081
95	0.2	1	6	3	4.3	3	6	20.106	3	6	29.245	3	6	17.106	3	6	24.882	0.178	0.081
95	0.2	1	8.3	0.05	4.15	3	6	19.169	3	6	27.882	3	6	16.169	3	6	23.518	0.178	0.081
95	0.2	1	8.3	1	3.8	3	6	16.981	3	6	24.700	3	6	13.981	3	6	20.336	0.178	0.081
95	0.2	1	8.3	1.5	3.5	3	6	15.106	3	6	21.973	3	6	12.106	3	6	17.609	0.178	0.081
95	0.2	1	8.3	2	3.3	3	6	13.856	3	6	20.155	3	6	10.856	3	6	15.791	0.178	0.081
95	0.2	1	8.3	2.5	3.1	3	6	12.606	3	6	18.336	3	6	9.606	3	6	13.973	0.178	0.081
95	0.2	1	8.3	3	2.9	3	6	11.356	3	6	16.518	3	6	8.356	3	6	12.155	0.178	0.081
95	0.2	1	10.5	0.05	3.95	3	6	17.919	3	6	26.064	3	6	14.919	3	6	21.700	0.178	0.081
95	0.2	1	10.5	1	3.7	3	6	16.356	3	6	23.791	3	6	13.356	3	6	19.427	0.178	0.081
95	0.2	1	10.5	1.5	3.5	3	6	15.106	3	6	21.973	3	6	12.106	3	6	17.609	0.178	0.081
95	0.2	1	10.5	2	3.3	3	6	13.856	3	6	20.155	3	6	10.856	3	6	15.791	0.178	0.081
95	0.2	1	10.5	2.5	3.1	3	6	12.606	3	6	18.336	3	6	9.606	3	6	13.973	0.178	0.081
95	0.2	1	10.5	3	2.8	3	6	10.731	3	6	15.609	3	6	7.731	3	6	11.245	0.178	0.081
95	0.2	1	14.5	0.05	3	3	6	11.981	3	6	17.427	3	6	8.981	3	6	13.064	0.178	0.081
95	0.2	1	14.5	1	2.8	3	6	10.731	3	6	15.609	3	6	7.731	3	6	11.245	0.178	0.081
95	0.2	1	14.5	1.5	2.7	3	6	10.106	3	6	14.700	3	6	7.106	3	6	10.336	0.178	0.081
95	0.2	1	14.5	2	2.6	3	6	9.481	3	6	13.791	3	6	6.481	3	6	9.427	0.178	0.081
95	0.2	1	14.5	2.5	2.5	3	6	8.856	3	6	12.882	3	6	5.856	3	6	8.518	0.178	0.081
95	0.2	1	14.5	3	2.5	3	6	8.856	3	6	12.882	3	6	5.856	3	6	8.518	0.178	0.081
95	0.2	3	4.5	0.05	6	3.5	6	30.478	3.5	6	44.332	3.5	6	27.478	3.5	6	39.968	0.178	0.081
95	0.2	3	4.5	1	5.1	3.5	6	24.853	3.5	6	36.150	3.5	6	21.853	3.5	6	31.786	0.178	0.081
95	0.2	3	4.5	1.5	4.7	3.5	6	22.353	3.5	6	32.514	3.5	6	19.353	3.5	6	28.150	0.178	0.081
95	0.2	3	4.5	2	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.2	3	4.5	2.5	3.8	3.5	6	16.728	3.5	6	24.332	3.5	6	13.728	3.5	6	19.968	0.178	0.081
95	0.2	3	4.5	3	3.6	3.5	6	15.478	3.5	6	22.514	3.5	6	12.478	3.5	6	18.150	0.178	0.081
95	0.2	3	6	0.05	5.8	3.5	6	29.228	3.5	6	42.514	3.5	6	26.228	3.5	6	38.150	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.2	3	6	1	4.9	3.5	6	23.603	3.5	6	34.332	3.5	6	20.603	3.5	6	29.968	0.178	0.081
95	0.2	3	6	1.5	4.5	3.5	6	21.103	3.5	6	30.695	3.5	6	18.103	3.5	6	26.332	0.178	0.081
95	0.2	3	6	2	4.2	3.5	6	19.228	3.5	6	27.968	3.5	6	16.228	3.5	6	23.605	0.178	0.081
95	0.2	3	6	2.5	3.8	3.5	6	16.728	3.5	6	24.332	3.5	6	13.728	3.5	6	19.968	0.178	0.081
95	0.2	3	6	3	3.9	3.5	6	17.353	3.5	6	25.241	3.5	6	14.353	3.5	6	20.877	0.178	0.081
95	0.2	3	8.3	0.05	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.2	3	8.3	1	4.4	3.5	6	20.478	3.5	6	29.786	3.5	6	17.478	3.5	6	25.423	0.178	0.081
95	0.2	3	8.3	1.5	3.9	3.5	6	17.353	3.5	6	25.241	3.5	6	14.353	3.5	6	20.877	0.178	0.081
95	0.2	3	8.3	2	3.6	3.5	6	15.478	3.5	6	22.514	3.5	6	12.478	3.5	6	18.150	0.178	0.081
95	0.2	3	8.3	2.5	3.4	3.5	6	14.228	3.5	6	20.695	3.5	6	11.228	3.5	6	16.332	0.178	0.081
95	0.2	3	8.3	3	3.3	3.5	6	13.603	3.5	6	19.786	3.5	6	10.603	3.5	6	15.423	0.178	0.081
95	0.2	3	10.5	0.05	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.2	3	10.5	1	4.4	3.5	6	20.478	3.5	6	29.786	3.5	6	17.478	3.5	6	25.423	0.178	0.081
95	0.2	3	10.5	1.5	3.9	3.5	6	17.353	3.5	6	25.241	3.5	6	14.353	3.5	6	20.877	0.178	0.081
95	0.2	3	10.5	2	3.6	3.5	6	15.478	3.5	6	22.514	3.5	6	12.478	3.5	6	18.150	0.178	0.081
95	0.2	3	10.5	2.5	3.4	3.5	6	14.228	3.5	6	20.695	3.5	6	11.228	3.5	6	16.332	0.178	0.081
95	0.2	3	10.5	3	3.1	3.5	6	12.353	3.5	6	17.968	3.5	6	9.353	3.5	6	13.605	0.178	0.081
95	0.2	3	14.5	0.05	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.2	3	14.5	1	3.7	3.5	6	16.103	3.5	6	23.423	3.5	6	13.103	3.5	6	19.059	0.178	0.081
95	0.2	3	14.5	1.5	3.3	3.5	6	13.603	3.5	6	19.786	3.5	6	10.603	3.5	6	15.423	0.178	0.081
95	0.2	3	14.5	2	3.1	3.5	6	12.353	3.5	6	17.968	3.5	6	9.353	3.5	6	13.605	0.178	0.081
95	0.2	3	14.5	2.5	2.9	3.5	6	11.103	3.5	6	16.150	3.5	6	8.103	3.5	6	11.786	0.178	0.081
95	0.2	3	14.5	3	2.8	3.5	6	10.478	3.5	6	15.241	3.5	6	7.478	3.5	6	10.877	0.178	0.081
95	0.2	5	4.5	0.05	7	3.5	6	36.728	3.5	6	53.423	3.5	6	33.728	3.5	6	49.059	0.178	0.081
95	0.2	5	4.5	1	6	3.5	6	30.478	3.5	6	44.332	3.5	6	27.478	3.5	6	39.968	0.178	0.081
95	0.2	5	4.5	1.5	5.5	3.5	6	27.353	3.5	6	39.786	3.5	6	24.353	3.5	6	35.423	0.178	0.081
95	0.2	5	4.5	2	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.2	5	4.5	2.5	4.4	3.5	6	20.478	3.5	6	29.786	3.5	6	17.478	3.5	6	25.423	0.178	0.081
95	0.2	5	4.5	3	4.1	3.5	6	18.603	3.5	6	27.059	3.5	6	15.603	3.5	6	22.695	0.178	0.081
95	0.2	5	6	0.05	6.5	3.5	6	33.603	3.5	6	48.877	3.5	6	30.603	3.5	6	44.514	0.178	0.081
95	0.2	5	6	1	4.8	3.5	6	22.978	3.5	6	33.423	3.5	6	19.978	3.5	6	29.059	0.178	0.081
95	0.2	5	6	1.5	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.2	5	6	2	3.6	3.5	6	15.478	3.5	6	22.514	3.5	6	12.478	3.5	6	18.150	0.178	0.081
95	0.2	5	6	2.5	3.3	3.5	6	13.603	3.5	6	19.786	3.5	6	10.603	3.5	6	15.423	0.178	0.081
95	0.2	5	6	3	3.95	3.5	6	17.666	3.5	6	25.695	3.5	6	14.666	3.5	6	21.332	0.178	0.081
95	0.2	5	8.3	0.05	6	3.5	6	30.478	3.5	6	44.332	3.5	6	27.478	3.5	6	39.968	0.178	0.081
95	0.2	5	8.3	1	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.2	5	8.3	1.5	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.2	5	8.3	2	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.2	5	8.3	2.5	3.8	3.5	6	16.728	3.5	6	24.332	3.5	6	13.728	3.5	6	19.968	0.178	0.081
95	0.2	5	8.3	3	3.55	3.5	6	15.166	3.5	6	22.059	3.5	6	12.166	3.5	6	17.695	0.178	0.081
95	0.2	5	10.5	0.05	5.9	3.5	6	29.853	3.5	6	43.423	3.5	6	26.853	3.5	6	39.059	0.178	0.081
95	0.2	5	10.5	1	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.2	5	10.5	1.5	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.2	5	10.5	2	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.2	5	10.5	2.5	3.7	3.5	6	16.103	3.5	6	23.423	3.5	6	13.103	3.5	6	19.059	0.178	0.081
95	0.2	5	10.5	3	3.45	3.5	6	14.541	3.5	6	21.150	3.5	6	11.541	3.5	6	16.786	0.178	0.081
95	0.2	5	14.5	0.05	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.2	5	14.5	1	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.2	5	14.5	1.5	3.8	3.5	6	16.728	3.5	6	24.332	3.5	6	13.728	3.5	6	19.968	0.178	0.081
95	0.2	5	14.5	2	3.5	3.5	6	14.853	3.5	6	21.605	3.5	6	11.853	3.5	6	17.241	0.178	0.081
95	0.2	5	14.5	2.5	3.3	3.5	6	13.603	3.5	6	19.786	3.5	6	10.603	3.5	6	15.423	0.178	0.081
95	0.2	5	14.5	3	3.05	3.5	6	12.041	3.5	6	17.514	3.5	6	9.041	3.5	6	13.150	0.178	0.081
95	0.2	10	4.5	0.05	7.4	4	6	38.975	4	6	56.691	4	6	35.975	4	6	52.327	0.178	0.081
95	0.2	10	4.5	1	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.2	10	4.5	1.5	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.2	10	4.5	2	5.1	4	6	24.600	4	6	35.782	4	6	21.600	4	6	31.418	0.178	0.081
95	0.2	10	4.5	2.5	4.6	4	6	21.475	4	6	31.236	4	6	18.475	4	6	26.873	0.178	0.081
95	0.2	10	4.5	3	4.3	4	6	19.600	4	6	28.509	4	6	16.600	4	6	24.145	0.178	0.081
95	0.2	10	6	0.05	6.9	4	6	35.850	4	6	52.145	4	6	32.850	4	6	47.782	0.178	0.081
95	0.2	10	6	1	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081
95	0.2	10	6	1.5	4.8	4	6	22.725	4	6	33.055	4	6	19.725	4	6	28.691	0.178	0.081
95	0.2	10	6	2	4.6	4	6	21.475	4	6	31.236	4	6	18.475	4	6	26.873	0.178	0.081
95	0.2	10	6	2.5	4.4	4	6	20.225	4	6	29.418	4	6	17.225	4	6	25.055	0.178	0.081
95	0.2	10	6	3	4.2	4	6	18.975	4	6	27.600	4	6	15.975	4	6	23.236	0.178	0.081
95	0.2	10	8.3	0.05	6.4	4	6	32.725	4	6	47.600	4	6	29.725	4	6	43.236	0.178	0.081
95	0.2	10	8.3	1	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.2	10	8.3	1.5	4.6	4	6	21.475	4	6	31.236	4	6	18.475	4	6	26.873	0.178	0.081
95	0.2	10	8.3	2	4.2	4	6	18.975	4	6	27.600	4	6	15.975	4	6	23.236	0.178	0.081
95	0.2	10	8.3	2.5	4	4	6	17.725	4	6	25.782	4	6	14.725	4	6	21.418	0.178	0.081
95	0.2	10	8.3	3	3.8	4	6	16.475	4	6	23.964	4	6	13.475	4	6	19.600	0.178	0.081
95	0.2	10	10.5	0.05	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.2	10	10.5	1	4.8	4	6	22.725	4	6	33.055	4	6	19.725	4	6	28.691	0.178	0.081
95	0.2	10	10.5	1.5	4.3	4	6	19.600	4	6	28.509	4	6	16.600	4	6	24.145	0.178	0.081
95	0.2	10	10.5	2	4	4	6	17.725	4	6	25.782	4	6	14.725	4	6	21.418	0.178	0.081
95	0.2	10	10.5	2.5	3.8	4	6	16.475	4	6	23.964	4	6	13.475	4	6	19.600	0.178	0.081
95	0.2	10	10.5	3	3.6	4	6	15.225	4	6	22.145	4	6	12.225	4	6	17.782	0.178	0.081
95	0.2	10	14.5	0.05	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.2	10	14.5	1	4.5	4	6	20.850	4	6	30.327	4	6	17.850	4	6	25.964	0.178	0.081
95	0.2	10	14.5	1.5	4	4	6	17.725	4	6	25.782	4	6	14.725	4	6	21.418	0.178	0.081
95	0.2	10	14.5	2	3.6	4	6	15.225	4	6	22.145	4	6	12.225	4	6	17.782	0.178	0.081
95	0.2	10	14.5	2.5	3.4	4	6	13.975	4	6	20.327	4	6	10.975	4	6	15.964	0.178	0.081
95	0.2	10	14.5	3	3.2	4	6	12.725	4	6	18.509	4	6	9.725	4	6	14.145	0.178	0.081
95	0.2	30	4.5	0.05	9	4	6	48.975	4	6	71.236	4	6	45.975	4	6	66.873	0.178	0.081
95	0.2	30	4.5	1	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.2	30	4.5	1.5	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.2	30	4.5	2	5.8	4	6	28.975	4	6	42.145	4	6	25.975	4	6	37.782	0.178	0.081
95	0.2	30	4.5	2.5	5.4	4	6	26.475	4	6	38.509	4	6	23.475	4	6	34.145	0.178	0.081
95	0.2	30	4.5	3	5.1	4	6	24.600	4	6	35.782	4	6	21.600	4	6	31.418	0.178	0.081
95	0.2	30	6	0.05	8.4	4	6	45.225	4	6	65.782	4	6	42.225	4	6	61.418	0.178	0.081
95	0.2	30	6	1	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.2	30	6	1.5	6.3	4	6	32.100	4	6	46.691	4	6	29.100	4	6	42.327	0.178	0.081
95	0.2	30	6	2	5.8	4	6	28.975	4	6	42.145	4	6	25.975	4	6	37.782	0.178	0.081
95	0.2	30	6	2.5	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081
95	0.2	30	6	3	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.2	30	8.3	0.05	8	4	6	42.725	4	6	62.145	4	6	39.725	4	6	57.782	0.178	0.081
95	0.2	30	8.3	1	6.3	4	6	32.100	4	6	46.691	4	6	29.100	4	6	42.327	0.178	0.081
95	0.2	30	8.3	1.5	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.2	30	8.3	2	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.2	30	8.3	2.5	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.2	30	8.3	3	4.6	4	6	21.475	4	6	31.236	4	6	18.475	4	6	26.873	0.178	0.081
95	0.2	30	10.5	0.05	7.05	4	6	36.788	4	6	53.509	4	6	33.788	4	6	49.145	0.178	0.081
95	0.2	30	10.5	1	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.2	30	10.5	1.5	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.2	30	10.5	2	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.2	30	10.5	2.5	4.5	4	6	20.850	4	6	30.327	4	6	17.850	4	6	25.964	0.178	0.081
95	0.2	30	10.5	3	4.2	4	6	18.975	4	6	27.600	4	6	15.975	4	6	23.236	0.178	0.081
95	0.2	30	14.5	0.05	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.2	30	14.5	1	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.2	30	14.5	1.5	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.2	30	14.5	2	4.6	4	6	21.475	4	6	31.236	4	6	18.475	4	6	26.873	0.178	0.081
95	0.2	30	14.5	2.5	4.3	4	6	19.600	4	6	28.509	4	6	16.600	4	6	24.145	0.178	0.081
95	0.2	30	14.5	3	3.9	4	6	17.100	4	6	24.873	4	6	14.100	4	6	20.509	0.178	0.081
95	0.2	50	4.5	0.05	10	4	6	55.225	4	6	80.327	4	6	52.225	4	6	75.964	0.178	0.081
95	0.2	50	4.5	1	8.2	4	6	43.975	4	6	63.964	4	6	40.975	4	6	59.600	0.178	0.081
95	0.2	50	4.5	1.5	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.2	50	4.5	2	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.2	50	4.5	2.5	6.4	4	6	32.725	4	6	47.600	4	6	29.725	4	6	43.236	0.178	0.081
95	0.2	50	4.5	3	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.2	50	6	0.05	9.1	4	6	49.600	4	6	72.145	4	6	46.600	4	6	67.782	0.178	0.081
95	0.2	50	6	1	7.3	4	6	38.350	4	6	55.782	4	6	35.350	4	6	51.418	0.178	0.081
95	0.2	50	6	1.5	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.2	50	6	2	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.2	50	6	2.5	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.2	50	6	3	5.1	4	6	24.600	4	6	35.782	4	6	21.600	4	6	31.418	0.178	0.081
95	0.2	50	8.3	0.05	8	4	6	42.725	4	6	62.145	4	6	39.725	4	6	57.782	0.178	0.081
95	0.2	50	8.3	1	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.2	50	8.3	1.5	6.3	4	6	32.100	4	6	46.691	4	6	29.100	4	6	42.327	0.178	0.081
95	0.2	50	8.3	2	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.2	50	8.3	2.5	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.2	50	8.3	3	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.2	50	10.5	0.05	7.9	4	6	42.100	4	6	61.236	4	6	39.100	4	6	56.873	0.178	0.081
95	0.2	50	10.5	1	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.2	50	10.5	1.5	5.4	4	6	26.475	4	6	38.509	4	6	23.475	4	6	34.145	0.178	0.081
95	0.2	50	10.5	2	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.2	50	10.5	2.5	4.7	4	6	22.100	4	6	32.145	4	6	19.100	4	6	27.782	0.178	0.081
95	0.2	50	10.5	3	4.4	4	6	20.225	4	6	29.418	4	6	17.225	4	6	25.055	0.178	0.081
95	0.2	50	14.5	0.05	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.2	50	14.5	1	5.4	4	6	26.475	4	6	38.509	4	6	23.475	4	6	34.145	0.178	0.081
95	0.2	50	14.5	1.5	4.7	4	6	22.100	4	6	32.145	4	6	19.100	4	6	27.782	0.178	0.081
95	0.2	50	14.5	2	4.4	4	6	20.225	4	6	29.418	4	6	17.225	4	6	25.055	0.178	0.081
95	0.2	50	14.5	2.5	4.2	4	6	18.975	4	6	27.600	4	6	15.975	4	6	23.236	0.178	0.081
95	0.2	50	14.5	3	4.05	4	6	18.038	4	6	26.236	4	6	15.038	4	6	21.873	0.178	0.081
95	0.35	0.05	4.5	0.05	2.65	1	4	12.556	1	4	18.264	1	4	10.556	1	4	15.355	0.178	0.081
95	0.35	0.05	4.5	1	2.6	1	4	12.244	1	4	17.809	1	4	10.244	1	4	14.900	0.178	0.081
95	0.35	0.05	4.5	1.5	2.55	1	4	11.931	1	4	17.355	1	4	9.931	1	4	14.445	0.178	0.081
95	0.35	0.05	4.5	2	2.45	1	4	11.306	1	4	16.445	1	4	9.306	1	4	13.536	0.178	0.081
95	0.35	0.05	4.5	2.5	2.35	1	4	10.681	1	4	15.536	1	4	8.681	1	4	12.627	0.178	0.081
95	0.35	0.05	4.5	3	2.25	1	4	10.056	1	4	14.627	1	4	8.056	1	4	11.718	0.178	0.081
95	0.35	0.05	6	0.05	2.43	1	4	11.181	1	4	16.264	1	4	9.181	1	4	13.355	0.178	0.081
95	0.35	0.05	6	1	2.35	1	4	10.681	1	4	15.536	1	4	8.681	1	4	12.627	0.178	0.081
95	0.35	0.05	6	1.5	2.3	1	4	10.369	1	4	15.082	1	4	8.369	1	4	12.173	0.178	0.081
95	0.35	0.05	6	2	2.25	1	4	10.056	1	4	14.627	1	4	8.056	1	4	11.718	0.178	0.081
95	0.35	0.05	6	2.5	2.2	1	4	9.744	1	4	14.173	1	4	7.744	1	4	11.264	0.178	0.081
95	0.35	0.05	6	3	2.13	1	4	9.306	1	4	13.536	1	4	7.306	1	4	10.627	0.178	0.081
95	0.35	0.05	8.3	0.05	2.22	1	4	9.869	1	4	14.355	1	4	7.869	1	4	11.445	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.35	0.05	8.3	1	2.1	1	4	9.119	1	4	13.264	1	4	7.119	1	4	10.355	0.178	0.081
95	0.35	0.05	8.3	1.5	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.35	0.05	8.3	2	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.35	0.05	8.3	2.5	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.35	0.05	8.3	3	2.02	1	4	8.619	1	4	12.536	1	4	6.619	1	4	9.627	0.178	0.081
95	0.35	0.05	10.5	0.05	2.01	1	4	8.556	1	4	12.445	1	4	6.556	1	4	9.536	0.178	0.081
95	0.35	0.05	10.5	1	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.35	0.05	10.5	1.5	1.9	1	4	7.869	1	4	11.445	1	4	5.869	1	4	8.536	0.178	0.081
95	0.35	0.05	10.5	2	1.9	1	4	7.869	1	4	11.445	1	4	5.869	1	4	8.536	0.178	0.081
95	0.35	0.05	10.5	2.5	1.9	1	4	7.869	1	4	11.445	1	4	5.869	1	4	8.536	0.178	0.081
95	0.35	0.05	10.5	3	1.91	1	4	7.931	1	4	11.536	1	4	5.931	1	4	8.627	0.178	0.081
95	0.35	0.05	14.5	0.05	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.35	0.05	14.5	1	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.35	0.05	14.5	1.5	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.35	0.05	14.5	2	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.35	0.05	14.5	2.5	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.35	0.05	14.5	3	1.8	1	4	7.244	1	4	10.536	1	4	5.244	1	4	7.627	0.178	0.081
95	0.35	0.1	4.5	0.05	4	2	4	20.488	2	4	29.800	2	4	18.488	2	4	26.891	0.178	0.081
95	0.35	0.1	4.5	1	3.6	2	4	17.988	2	4	26.164	2	4	15.988	2	4	23.255	0.178	0.081
95	0.35	0.1	4.5	1.5	3.3	2	4	16.113	2	4	23.436	2	4	14.113	2	4	20.527	0.178	0.081
95	0.35	0.1	4.5	2	3.2	2	4	15.488	2	4	22.527	2	4	13.488	2	4	19.618	0.178	0.081
95	0.35	0.1	4.5	2.5	2.9	2	4	13.613	2	4	19.800	2	4	11.613	2	4	16.891	0.178	0.081
95	0.35	0.1	4.5	3	2.7	2	4	12.363	2	4	17.982	2	4	10.363	2	4	15.073	0.178	0.081
95	0.35	0.1	6	0.05	3.46	2	4	17.113	2	4	24.891	2	4	15.113	2	4	21.982	0.178	0.081
95	0.35	0.1	6	1	3	2	4	14.238	2	4	20.709	2	4	12.238	2	4	17.800	0.178	0.081
95	0.35	0.1	6	1.5	2.8	2	4	12.988	2	4	18.891	2	4	10.988	2	4	15.982	0.178	0.081
95	0.35	0.1	6	2	2.7	2	4	12.363	2	4	17.982	2	4	10.363	2	4	15.073	0.178	0.081
95	0.35	0.1	6	2.5	2.6	2	4	11.738	2	4	17.073	2	4	9.738	2	4	14.164	0.178	0.081
95	0.35	0.1	6	3	2.46	2	4	10.863	2	4	15.800	2	4	8.863	2	4	12.891	0.178	0.081
95	0.35	0.1	8.3	0.05	2.94	2	4	13.863	2	4	20.164	2	4	11.863	2	4	17.255	0.178	0.081
95	0.35	0.1	8.3	1	2.8	2	4	12.988	2	4	18.891	2	4	10.988	2	4	15.982	0.178	0.081
95	0.35	0.1	8.3	1.5	2.7	2	4	12.363	2	4	17.982	2	4	10.363	2	4	15.073	0.178	0.081
95	0.35	0.1	8.3	2	2.6	2	4	11.738	2	4	17.073	2	4	9.738	2	4	14.164	0.178	0.081
95	0.35	0.1	8.3	2.5	2.5	2	4	11.113	2	4	16.164	2	4	9.113	2	4	13.255	0.178	0.081
95	0.35	0.1	8.3	3	2.4	2	4	10.488	2	4	15.255	2	4	8.488	2	4	12.345	0.178	0.081
95	0.35	0.1	10.5	0.05	2.42	2	4	10.613	2	4	15.436	2	4	8.613	2	4	12.527	0.178	0.081
95	0.35	0.1	10.5	1	2.35	2	4	10.175	2	4	14.800	2	4	8.175	2	4	11.891	0.178	0.081
95	0.35	0.1	10.5	1.5	2.3	2	4	9.863	2	4	14.345	2	4	7.863	2	4	11.436	0.178	0.081
95	0.35	0.1	10.5	2	2.2	2	4	9.238	2	4	13.436	2	4	7.238	2	4	10.527	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.35	0.1	10.5	2.5	2.1	2	4	8.613	2	4	12.527	2	4	6.613	2	4	9.618	0.178	0.081
95	0.35	0.1	10.5	3	2.02	2	4	8.113	2	4	11.800	2	4	6.113	2	4	8.891	0.178	0.081
95	0.35	0.1	14.5	0.05	1.9	2	4	7.363	2	4	10.709	2	4	5.363	2	4	7.800	0.178	0.081
95	0.35	0.1	14.5	1	1.8	2	4	6.738	2	4	9.800	2	4	4.738	2	4	6.891	0.178	0.081
95	0.35	0.1	14.5	1.5	1.8	2	4	6.738	2	4	9.800	2	4	4.738	2	4	6.891	0.178	0.081
95	0.35	0.1	14.5	2	1.8	2	4	6.738	2	4	9.800	2	4	4.738	2	4	6.891	0.178	0.081
95	0.35	0.1	14.5	2.5	1.8	2	4	6.738	2	4	9.800	2	4	4.738	2	4	6.891	0.178	0.081
95	0.35	0.1	14.5	3	1.8	2	4	6.738	2	4	9.800	2	4	4.738	2	4	6.891	0.178	0.081
95	0.35	0.3	4.5	0.05	5	2.5	4	26.484	2.5	4	38.523	2.5	4	24.484	2.5	4	35.614	0.178	0.081
95	0.35	0.3	4.5	1	4.4	2.5	4	22.734	2.5	4	33.068	2.5	4	20.734	2.5	4	30.159	0.178	0.081
95	0.35	0.3	4.5	1.5	4	2.5	4	20.234	2.5	4	29.432	2.5	4	18.234	2.5	4	26.523	0.178	0.081
95	0.35	0.3	4.5	2	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.35	0.3	4.5	2.5	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.35	0.3	4.5	3	3.1	2.5	4	14.609	2.5	4	21.250	2.5	4	12.609	2.5	4	18.341	0.178	0.081
95	0.35	0.3	6	0.05	4.35	2.5	4	22.422	2.5	4	32.614	2.5	4	20.422	2.5	4	29.705	0.178	0.081
95	0.35	0.3	6	1	3.8	2.5	4	18.984	2.5	4	27.614	2.5	4	16.984	2.5	4	24.705	0.178	0.081
95	0.35	0.3	6	1.5	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.35	0.3	6	2	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.35	0.3	6	2.5	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.35	0.3	6	3	2.84	2.5	4	12.984	2.5	4	18.886	2.5	4	10.984	2.5	4	15.977	0.178	0.081
95	0.35	0.3	8.3	0.05	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.35	0.3	8.3	1	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.35	0.3	8.3	1.5	2.9	2.5	4	13.359	2.5	4	19.432	2.5	4	11.359	2.5	4	16.523	0.178	0.081
95	0.35	0.3	8.3	2	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.35	0.3	8.3	2.5	2.7	2.5	4	12.109	2.5	4	17.614	2.5	4	10.109	2.5	4	14.705	0.178	0.081
95	0.35	0.3	8.3	3	2.61	2.5	4	11.547	2.5	4	16.795	2.5	4	9.547	2.5	4	13.886	0.178	0.081
95	0.35	0.3	10.5	0.05	3.05	2.5	4	14.297	2.5	4	20.795	2.5	4	12.297	2.5	4	17.886	0.178	0.081
95	0.35	0.3	10.5	1	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.35	0.3	10.5	1.5	2.7	2.5	4	12.109	2.5	4	17.614	2.5	4	10.109	2.5	4	14.705	0.178	0.081
95	0.35	0.3	10.5	2	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.35	0.3	10.5	2.5	2.5	2.5	4	10.859	2.5	4	15.795	2.5	4	8.859	2.5	4	12.886	0.178	0.081
95	0.35	0.3	10.5	3	2.38	2.5	4	10.109	2.5	4	14.705	2.5	4	8.109	2.5	4	11.795	0.178	0.081
95	0.35	0.3	14.5	0.05	2.4	2.5	4	10.234	2.5	4	14.886	2.5	4	8.234	2.5	4	11.977	0.178	0.081
95	0.35	0.3	14.5	1	2.3	2.5	4	9.609	2.5	4	13.977	2.5	4	7.609	2.5	4	11.068	0.178	0.081
95	0.35	0.3	14.5	1.5	2.3	2.5	4	9.609	2.5	4	13.977	2.5	4	7.609	2.5	4	11.068	0.178	0.081
95	0.35	0.3	14.5	2	2.2	2.5	4	8.984	2.5	4	13.068	2.5	4	6.984	2.5	4	10.159	0.178	0.081
95	0.35	0.3	14.5	2.5	2.2	2.5	4	8.984	2.5	4	13.068	2.5	4	6.984	2.5	4	10.159	0.178	0.081
95	0.35	0.3	14.5	3	2.15	2.5	4	8.672	2.5	4	12.614	2.5	4	6.672	2.5	4	9.705	0.178	0.081
95	0.35	0.5	4.5	0.05	5.5	2.5	4	29.609	2.5	4	43.068	2.5	4	27.609	2.5	4	40.159	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.35	0.5	4.5	1	4.7	2.5	4	24.609	2.5	4	35.795	2.5	4	22.609	2.5	4	32.886	0.178	0.081
95	0.35	0.5	4.5	1.5	4.3	2.5	4	22.109	2.5	4	32.159	2.5	4	20.109	2.5	4	29.250	0.178	0.081
95	0.35	0.5	4.5	2	4	2.5	4	20.234	2.5	4	29.432	2.5	4	18.234	2.5	4	26.523	0.178	0.081
95	0.35	0.5	4.5	2.5	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.35	0.5	4.5	3	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.35	0.5	6	0.05	4.65	2.5	4	24.297	2.5	4	35.341	2.5	4	22.297	2.5	4	32.432	0.178	0.081
95	0.35	0.5	6	1	4	2.5	4	20.234	2.5	4	29.432	2.5	4	18.234	2.5	4	26.523	0.178	0.081
95	0.35	0.5	6	1.5	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.35	0.5	6	2	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.35	0.5	6	2.5	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.35	0.5	6	3	3.12	2.5	4	14.734	2.5	4	21.432	2.5	4	12.734	2.5	4	18.523	0.178	0.081
95	0.35	0.5	8.3	0.05	3.8	2.5	4	18.984	2.5	4	27.614	2.5	4	16.984	2.5	4	24.705	0.178	0.081
95	0.35	0.5	8.3	1	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.35	0.5	8.3	1.5	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.35	0.5	8.3	2	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.35	0.5	8.3	2.5	2.9	2.5	4	13.359	2.5	4	19.432	2.5	4	11.359	2.5	4	16.523	0.178	0.081
95	0.35	0.5	8.3	3	2.75	2.5	4	12.422	2.5	4	18.068	2.5	4	10.422	2.5	4	15.159	0.178	0.081
95	0.35	0.5	10.5	0.05	2.95	2.5	4	13.672	2.5	4	19.886	2.5	4	11.672	2.5	4	16.977	0.178	0.081
95	0.35	0.5	10.5	1	2.7	2.5	4	12.109	2.5	4	17.614	2.5	4	10.109	2.5	4	14.705	0.178	0.081
95	0.35	0.5	10.5	1.5	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.35	0.5	10.5	2	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.35	0.5	10.5	2.5	2.5	2.5	4	10.859	2.5	4	15.795	2.5	4	8.859	2.5	4	12.886	0.178	0.081
95	0.35	0.5	10.5	3	2.37	2.5	4	10.047	2.5	4	14.614	2.5	4	8.047	2.5	4	11.705	0.178	0.081
95	0.35	0.5	14.5	0.05	2.1	2.5	4	8.359	2.5	4	12.159	2.5	4	6.359	2.5	4	9.250	0.178	0.081
95	0.35	0.5	14.5	1	2	2.5	4	7.734	2.5	4	11.250	2.5	4	5.734	2.5	4	8.341	0.178	0.081
95	0.35	0.5	14.5	1.5	2	2.5	4	7.734	2.5	4	11.250	2.5	4	5.734	2.5	4	8.341	0.178	0.081
95	0.35	0.5	14.5	2	2	2.5	4	7.734	2.5	4	11.250	2.5	4	5.734	2.5	4	8.341	0.178	0.081
95	0.35	0.5	14.5	2.5	2	2.5	4	7.734	2.5	4	11.250	2.5	4	5.734	2.5	4	8.341	0.178	0.081
95	0.35	0.5	14.5	3	2	2.5	4	7.734	2.5	4	11.250	2.5	4	5.734	2.5	4	8.341	0.178	0.081
95	0.35	1	4.5	0.05	6	3	6	30.731	3	6	44.700	3	6	27.731	3	6	40.336	0.178	0.081
95	0.35	1	4.5	1	4.9	3	6	23.856	3	6	34.700	3	6	20.856	3	6	30.336	0.178	0.081
95	0.35	1	4.5	1.5	4.5	3	6	21.356	3	6	31.064	3	6	18.356	3	6	26.700	0.178	0.081
95	0.35	1	4.5	2	4.2	3	6	19.481	3	6	28.336	3	6	16.481	3	6	23.973	0.178	0.081
95	0.35	1	4.5	2.5	4.9	3	6	23.856	3	6	34.700	3	6	20.856	3	6	30.336	0.178	0.081
95	0.35	1	4.5	3	3.7	3	6	16.356	3	6	23.791	3	6	13.356	3	6	19.427	0.178	0.081
95	0.35	1	6	0.05	5.37	3	6	26.794	3	6	38.973	3	6	23.794	3	6	34.609	0.178	0.081
95	0.35	1	6	1	4.4	3	6	20.731	3	6	30.155	3	6	17.731	3	6	25.791	0.178	0.081
95	0.35	1	6	1.5	3.9	3	6	17.606	3	6	25.609	3	6	14.606	3	6	21.245	0.178	0.081
95	0.35	1	6	2	3.8	3	6	16.981	3	6	24.700	3	6	13.981	3	6	20.336	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.35	1	6	2.5	3.6	3	6	15.731	3	6	22.882	3	6	12.731	3	6	18.518	0.178	0.081
95	0.35	1	6	3	3.42	3	6	14.606	3	6	21.245	3	6	11.606	3	6	16.882	0.178	0.081
95	0.35	1	8.3	0.05	4.75	3	6	22.919	3	6	33.336	3	6	19.919	3	6	28.973	0.178	0.081
95	0.35	1	8.3	1	4	3	6	18.231	3	6	26.518	3	6	15.231	3	6	22.155	0.178	0.081
95	0.35	1	8.3	1.5	3.7	3	6	16.356	3	6	23.791	3	6	13.356	3	6	19.427	0.178	0.081
95	0.35	1	8.3	2	3.5	3	6	15.106	3	6	21.973	3	6	12.106	3	6	17.609	0.178	0.081
95	0.35	1	8.3	2.5	3.3	3	6	13.856	3	6	20.155	3	6	10.856	3	6	15.791	0.178	0.081
95	0.35	1	8.3	3	3.15	3	6	12.919	3	6	18.791	3	6	9.919	3	6	14.427	0.178	0.081
95	0.35	1	10.5	0.05	4.12	3	6	18.981	3	6	27.609	3	6	15.981	3	6	23.245	0.178	0.081
95	0.35	1	10.5	1	3.8	3	6	16.981	3	6	24.700	3	6	13.981	3	6	20.336	0.178	0.081
95	0.35	1	10.5	1.5	3.6	3	6	15.731	3	6	22.882	3	6	12.731	3	6	18.518	0.178	0.081
95	0.35	1	10.5	2	3.4	3	6	14.481	3	6	21.064	3	6	11.481	3	6	16.700	0.178	0.081
95	0.35	1	10.5	2.5	3.2	3	6	13.231	3	6	19.245	3	6	10.231	3	6	14.882	0.178	0.081
95	0.35	1	10.5	3	2.87	3	6	11.169	3	6	16.245	3	6	8.169	3	6	11.882	0.178	0.081
95	0.35	1	14.5	0.05	3.5	3	6	15.106	3	6	21.973	3	6	12.106	3	6	17.609	0.178	0.081
95	0.35	1	14.5	1	3.1	3	6	12.606	3	6	18.336	3	6	9.606	3	6	13.973	0.178	0.081
95	0.35	1	14.5	1.5	2.9	3	6	11.356	3	6	16.518	3	6	8.356	3	6	12.155	0.178	0.081
95	0.35	1	14.5	2	2.8	3	6	10.731	3	6	15.609	3	6	7.731	3	6	11.245	0.178	0.081
95	0.35	1	14.5	2.5	2.7	3	6	10.106	3	6	14.700	3	6	7.106	3	6	10.336	0.178	0.081
95	0.35	1	14.5	3	2.6	3	6	9.481	3	6	13.791	3	6	6.481	3	6	9.427	0.178	0.081
95	0.35	3	4.5	0.05	6.8	3.5	6	35.478	3.5	6	51.605	3.5	6	32.478	3.5	6	47.241	0.178	0.081
95	0.35	3	4.5	1	5.5	3.5	6	27.353	3.5	6	39.786	3.5	6	24.353	3.5	6	35.423	0.178	0.081
95	0.35	3	4.5	1.5	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.35	3	4.5	2	4.7	3.5	6	22.353	3.5	6	32.514	3.5	6	19.353	3.5	6	28.150	0.178	0.081
95	0.35	3	4.5	2.5	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.35	3	4.5	3	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.35	3	6	0.05	6.17	3.5	6	31.541	3.5	6	45.877	3.5	6	28.541	3.5	6	41.514	0.178	0.081
95	0.35	3	6	1	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.35	3	6	1.5	4.7	3.5	6	22.353	3.5	6	32.514	3.5	6	19.353	3.5	6	28.150	0.178	0.081
95	0.35	3	6	2	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.35	3	6	2.5	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.35	3	6	3	3.72	3.5	6	16.228	3.5	6	23.605	3.5	6	13.228	3.5	6	19.241	0.178	0.081
95	0.35	3	8.3	0.05	5.55	3.5	6	27.666	3.5	6	40.241	3.5	6	24.666	3.5	6	35.877	0.178	0.081
95	0.35	3	8.3	1	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.35	3	8.3	1.5	4.4	3.5	6	20.478	3.5	6	29.786	3.5	6	17.478	3.5	6	25.423	0.178	0.081
95	0.35	3	8.3	2	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.35	3	8.3	2.5	3.7	3.5	6	16.103	3.5	6	23.423	3.5	6	13.103	3.5	6	19.059	0.178	0.081
95	0.35	3	8.3	3	3.45	3.5	6	14.541	3.5	6	21.150	3.5	6	11.541	3.5	6	16.786	0.178	0.081
95	0.35	3	10.5	0.05	4.92	3.5	6	23.728	3.5	6	34.514	3.5	6	20.728	3.5	6	30.150	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.35	3	10.5	1	4.2	3.5	6	19.228	3.5	6	27.968	3.5	6	16.228	3.5	6	23.605	0.178	0.081
95	0.35	3	10.5	1.5	3.7	3.5	6	16.103	3.5	6	23.423	3.5	6	13.103	3.5	6	19.059	0.178	0.081
95	0.35	3	10.5	2	3.5	3.5	6	14.853	3.5	6	21.605	3.5	6	11.853	3.5	6	17.241	0.178	0.081
95	0.35	3	10.5	2.5	3.3	3.5	6	13.603	3.5	6	19.786	3.5	6	10.603	3.5	6	15.423	0.178	0.081
95	0.35	3	10.5	3	3.17	3.5	6	12.791	3.5	6	18.605	3.5	6	9.791	3.5	6	14.241	0.178	0.081
95	0.35	3	14.5	0.05	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.35	3	14.5	1	3.7	3.5	6	16.103	3.5	6	23.423	3.5	6	13.103	3.5	6	19.059	0.178	0.081
95	0.35	3	14.5	1.5	3.5	3.5	6	14.853	3.5	6	21.605	3.5	6	11.853	3.5	6	17.241	0.178	0.081
95	0.35	3	14.5	2	3.3	3.5	6	13.603	3.5	6	19.786	3.5	6	10.603	3.5	6	15.423	0.178	0.081
95	0.35	3	14.5	2.5	3.1	3.5	6	12.353	3.5	6	17.968	3.5	6	9.353	3.5	6	13.605	0.178	0.081
95	0.35	3	14.5	3	2.9	3.5	6	11.103	3.5	6	16.150	3.5	6	8.103	3.5	6	11.786	0.178	0.081
95	0.35	5	4.5	0.05	7.7	3.5	6	41.103	3.5	6	59.786	3.5	6	38.103	3.5	6	55.423	0.178	0.081
95	0.35	5	4.5	1	6	3.5	6	30.478	3.5	6	44.332	3.5	6	27.478	3.5	6	39.968	0.178	0.081
95	0.35	5	4.5	1.5	5.3	3.5	6	26.103	3.5	6	37.968	3.5	6	23.103	3.5	6	33.605	0.178	0.081
95	0.35	5	4.5	2	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.35	5	4.5	2.5	4.7	3.5	6	22.353	3.5	6	32.514	3.5	6	19.353	3.5	6	28.150	0.178	0.081
95	0.35	5	4.5	3	4.4	3.5	6	20.478	3.5	6	29.786	3.5	6	17.478	3.5	6	25.423	0.178	0.081
95	0.35	5	6	0.05	7.07	3.5	6	37.166	3.5	6	54.059	3.5	6	34.166	3.5	6	49.695	0.178	0.081
95	0.35	5	6	1	5.6	3.5	6	27.978	3.5	6	40.695	3.5	6	24.978	3.5	6	36.332	0.178	0.081
95	0.35	5	6	1.5	4.9	3.5	6	23.603	3.5	6	34.332	3.5	6	20.603	3.5	6	29.968	0.178	0.081
95	0.35	5	6	2	4.6	3.5	6	21.728	3.5	6	31.605	3.5	6	18.728	3.5	6	27.241	0.178	0.081
95	0.35	5	6	2.5	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.35	5	6	3	4.07	3.5	6	18.416	3.5	6	26.786	3.5	6	15.416	3.5	6	22.423	0.178	0.081
95	0.35	5	8.3	0.05	6.45	3.5	6	33.291	3.5	6	48.423	3.5	6	30.291	3.5	6	44.059	0.178	0.081
95	0.35	5	8.3	1	5.4	3.5	6	26.728	3.5	6	38.877	3.5	6	23.728	3.5	6	34.514	0.178	0.081
95	0.35	5	8.3	1.5	4.8	3.5	6	22.978	3.5	6	33.423	3.5	6	19.978	3.5	6	29.059	0.178	0.081
95	0.35	5	8.3	2	4.5	3.5	6	21.103	3.5	6	30.695	3.5	6	18.103	3.5	6	26.332	0.178	0.081
95	0.35	5	8.3	2.5	4.2	3.5	6	19.228	3.5	6	27.968	3.5	6	16.228	3.5	6	23.605	0.178	0.081
95	0.35	5	8.3	3	3.75	3.5	6	16.416	3.5	6	23.877	3.5	6	13.416	3.5	6	19.514	0.178	0.081
95	0.35	5	10.5	0.05	5.82	3.5	6	29.353	3.5	6	42.695	3.5	6	26.353	3.5	6	38.332	0.178	0.081
95	0.35	5	10.5	1	4.8	3.5	6	22.978	3.5	6	33.423	3.5	6	19.978	3.5	6	29.059	0.178	0.081
95	0.35	5	10.5	1.5	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.35	5	10.5	2	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.35	5	10.5	2.5	3.7	3.5	6	16.103	3.5	6	23.423	3.5	6	13.103	3.5	6	19.059	0.178	0.081
95	0.35	5	10.5	3	3.42	3.5	6	14.353	3.5	6	20.877	3.5	6	11.353	3.5	6	16.514	0.178	0.081
95	0.35	5	14.5	0.05	5.2	3.5	6	25.478	3.5	6	37.059	3.5	6	22.478	3.5	6	32.695	0.178	0.081
95	0.35	5	14.5	1	4.5	3.5	6	21.103	3.5	6	30.695	3.5	6	18.103	3.5	6	26.332	0.178	0.081
95	0.35	5	14.5	1.5	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.35	5	14.5	2	3.7	3.5	6	16.103	3.5	6	23.423	3.5	6	13.103	3.5	6	19.059	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.35	5	14.5	2.5	3.4	3.5	6	14.228	3.5	6	20.695	3.5	6	11.228	3.5	6	16.332	0.178	0.081
95	0.35	5	14.5	3	3.1	3.5	6	12.353	3.5	6	17.968	3.5	6	9.353	3.5	6	13.605	0.178	0.081
95	0.35	10	4.5	0.05	9	4	6	48.975	4	6	71.236	4	6	45.975	4	6	66.873	0.178	0.081
95	0.35	10	4.5	1	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.35	10	4.5	1.5	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.35	10	4.5	2	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.35	10	4.5	2.5	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.35	10	4.5	3	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.35	10	6	0.05	8.25	4	6	44.288	4	6	64.418	4	6	41.288	4	6	60.055	0.178	0.081
95	0.35	10	6	1	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.35	10	6	1.5	5.8	4	6	28.975	4	6	42.145	4	6	25.975	4	6	37.782	0.178	0.081
95	0.35	10	6	2	5.4	4	6	26.475	4	6	38.509	4	6	23.475	4	6	34.145	0.178	0.081
95	0.35	10	6	2.5	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.35	10	6	3	4.67	4	6	21.913	4	6	31.873	4	6	18.913	4	6	27.509	0.178	0.081
95	0.35	10	8.3	0.05	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.35	10	8.3	1	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.35	10	8.3	1.5	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.35	10	8.3	2	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.35	10	8.3	2.5	4.6	4	6	21.475	4	6	31.236	4	6	18.475	4	6	26.873	0.178	0.081
95	0.35	10	8.3	3	4.35	4	6	19.913	4	6	28.964	4	6	16.913	4	6	24.600	0.178	0.081
95	0.35	10	10.5	0.05	6.75	4	6	34.913	4	6	50.782	4	6	31.913	4	6	46.418	0.178	0.081
95	0.35	10	10.5	1	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.35	10	10.5	1.5	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.35	10	10.5	2	4.6	4	6	21.475	4	6	31.236	4	6	18.475	4	6	26.873	0.178	0.081
95	0.35	10	10.5	2.5	4.3	4	6	19.600	4	6	28.509	4	6	16.600	4	6	24.145	0.178	0.081
95	0.35	10	10.5	3	4.02	4	6	17.850	4	6	25.964	4	6	14.850	4	6	21.600	0.178	0.081
95	0.35	10	14.5	0.05	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.35	10	14.5	1	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.35	10	14.5	1.5	4.8	4	6	22.725	4	6	33.055	4	6	19.725	4	6	28.691	0.178	0.081
95	0.35	10	14.5	2	4.4	4	6	20.225	4	6	29.418	4	6	17.225	4	6	25.055	0.178	0.081
95	0.35	10	14.5	2.5	4	4	6	17.725	4	6	25.782	4	6	14.725	4	6	21.418	0.178	0.081
95	0.35	10	14.5	3	3.7	4	6	15.850	4	6	23.055	4	6	12.850	4	6	18.691	0.178	0.081
95	0.35	30	4.5	0.05	9.7	4	6	53.350	4	6	77.600	4	6	50.350	4	6	73.236	0.178	0.081
95	0.35	30	4.5	1	7.3	4	6	38.350	4	6	55.782	4	6	35.350	4	6	51.418	0.178	0.081
95	0.35	30	4.5	1.5	6.6	4	6	33.975	4	6	49.418	4	6	30.975	4	6	45.055	0.178	0.081
95	0.35	30	4.5	2	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.35	30	4.5	2.5	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.35	30	4.5	3	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081
95	0.35	30	6	0.05	9	4	6	48.975	4	6	71.236	4	6	45.975	4	6	66.873	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.35	30	6	1	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.35	30	6	1.5	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.35	30	6	2	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.35	30	6	2.5	5.4	4	6	26.475	4	6	38.509	4	6	23.475	4	6	34.145	0.178	0.081
95	0.35	30	6	3	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.35	30	8.3	0.05	8.3	4	6	44.600	4	6	64.873	4	6	41.600	4	6	60.509	0.178	0.081
95	0.35	30	8.3	1	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.35	30	8.3	1.5	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.35	30	8.3	2	5.4	4	6	26.475	4	6	38.509	4	6	23.475	4	6	34.145	0.178	0.081
95	0.35	30	8.3	2.5	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.35	30	8.3	3	4.65	4	6	21.788	4	6	31.691	4	6	18.788	4	6	27.327	0.178	0.081
95	0.35	30	10.5	0.05	7.6	4	6	40.225	4	6	58.509	4	6	37.225	4	6	54.145	0.178	0.081
95	0.35	30	10.5	1	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.35	30	10.5	1.5	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.35	30	10.5	2	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.35	30	10.5	2.5	4.5	4	6	20.850	4	6	30.327	4	6	17.850	4	6	25.964	0.178	0.081
95	0.35	30	10.5	3	4.32	4	6	19.725	4	6	28.691	4	6	16.725	4	6	24.327	0.178	0.081
95	0.35	30	14.5	0.05	6.9	4	6	35.850	4	6	52.145	4	6	32.850	4	6	47.782	0.178	0.081
95	0.35	30	14.5	1	5.8	4	6	28.975	4	6	42.145	4	6	25.975	4	6	37.782	0.178	0.081
95	0.35	30	14.5	1.5	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.35	30	14.5	2	4.8	4	6	22.725	4	6	33.055	4	6	19.725	4	6	28.691	0.178	0.081
95	0.35	30	14.5	2.5	4.4	4	6	20.225	4	6	29.418	4	6	17.225	4	6	25.055	0.178	0.081
95	0.35	30	14.5	3	4	4	6	17.725	4	6	25.782	4	6	14.725	4	6	21.418	0.178	0.081
95	0.35	50	4.5	0.05	10	4	6	55.225	4	6	80.327	4	6	52.225	4	6	75.964	0.178	0.081
95	0.35	50	4.5	1	8	4	6	42.725	4	6	62.145	4	6	39.725	4	6	57.782	0.178	0.081
95	0.35	50	4.5	1.5	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.35	50	4.5	2	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.35	50	4.5	2.5	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.35	50	4.5	3	6.1	4	6	30.850	4	6	44.873	4	6	27.850	4	6	40.509	0.178	0.081
95	0.35	50	6	0.05	9.47	4	6	51.913	4	6	75.509	4	6	48.913	4	6	71.145	0.178	0.081
95	0.35	50	6	1	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.35	50	6	1.5	6.8	4	6	35.225	4	6	51.236	4	6	32.225	4	6	46.873	0.178	0.081
95	0.35	50	6	2	6.4	4	6	32.725	4	6	47.600	4	6	29.725	4	6	43.236	0.178	0.081
95	0.35	50	6	2.5	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.35	50	6	3	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.35	50	8.3	0.05	8.95	4	6	48.663	4	6	70.782	4	6	45.663	4	6	66.418	0.178	0.081
95	0.35	50	8.3	1	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.35	50	8.3	1.5	6.4	4	6	32.725	4	6	47.600	4	6	29.725	4	6	43.236	0.178	0.081
95	0.35	50	8.3	2	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.35	50	8.3	2.5	5.6	4	6	27.725	4	6	40.327	4	6	24.725	4	6	35.964	0.178	0.081
95	0.35	50	8.3	3	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081
95	0.35	50	10.5	0.05	8.42	4	6	45.350	4	6	65.964	4	6	42.350	4	6	61.600	0.178	0.081
95	0.35	50	10.5	1	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.35	50	10.5	1.5	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.35	50	10.5	2	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.35	50	10.5	2.5	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.35	50	10.5	3	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.35	50	14.5	0.05	7.9	4	6	42.100	4	6	61.236	4	6	39.100	4	6	56.873	0.178	0.081
95	0.35	50	14.5	1	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.35	50	14.5	1.5	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081
95	0.35	50	14.5	2	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.35	50	14.5	2.5	4.7	4	6	22.100	4	6	32.145	4	6	19.100	4	6	27.782	0.178	0.081
95	0.35	50	14.5	3	4.5	4	6	20.850	4	6	30.327	4	6	17.850	4	6	25.964	0.178	0.081
95	0.5	0.05	4.5	0.05	4.2	1	4	22.244	1	4	32.355	1	4	20.244	1	4	29.445	0.178	0.081
95	0.5	0.05	4.5	1	3.8	1	4	19.744	1	4	28.718	1	4	17.744	1	4	25.809	0.178	0.081
95	0.5	0.05	4.5	1.5	3.6	1	4	18.494	1	4	26.900	1	4	16.494	1	4	23.991	0.178	0.081
95	0.5	0.05	4.5	2	3.4	1	4	17.244	1	4	25.082	1	4	15.244	1	4	22.173	0.178	0.081
95	0.5	0.05	4.5	2.5	3.2	1	4	15.994	1	4	23.264	1	4	13.994	1	4	20.355	0.178	0.081
95	0.5	0.05	4.5	3	3	1	4	14.744	1	4	21.445	1	4	12.744	1	4	18.536	0.178	0.081
95	0.5	0.05	6	0.05	3.66	1	4	18.869	1	4	27.445	1	4	16.869	1	4	24.536	0.178	0.081
95	0.5	0.05	6	1	3.1	1	4	15.369	1	4	22.355	1	4	13.369	1	4	19.445	0.178	0.081
95	0.5	0.05	6	1.5	3	1	4	14.744	1	4	21.445	1	4	12.744	1	4	18.536	0.178	0.081
95	0.5	0.05	6	2	2.9	1	4	14.119	1	4	20.536	1	4	12.119	1	4	17.627	0.178	0.081
95	0.5	0.05	6	2.5	2.8	1	4	13.494	1	4	19.627	1	4	11.494	1	4	16.718	0.178	0.081
95	0.5	0.05	6	3	2.73	1	4	13.056	1	4	18.991	1	4	11.056	1	4	16.082	0.178	0.081
95	0.5	0.05	8.3	0.05	3.12	1	4	15.494	1	4	22.536	1	4	13.494	1	4	19.627	0.178	0.081
95	0.5	0.05	8.3	1	2.9	1	4	14.119	1	4	20.536	1	4	12.119	1	4	17.627	0.178	0.081
95	0.5	0.05	8.3	1.5	2.9	1	4	14.119	1	4	20.536	1	4	12.119	1	4	17.627	0.178	0.081
95	0.5	0.05	8.3	2	2.7	1	4	12.869	1	4	18.718	1	4	10.869	1	4	15.809	0.178	0.081
95	0.5	0.05	8.3	2.5	2.6	1	4	12.244	1	4	17.809	1	4	10.244	1	4	14.900	0.178	0.081
95	0.5	0.05	8.3	3	2.47	1	4	11.431	1	4	16.627	1	4	9.431	1	4	13.718	0.178	0.081
95	0.5	0.05	10.5	0.05	2.58	1	4	12.119	1	4	17.627	1	4	10.119	1	4	14.718	0.178	0.081
95	0.5	0.05	10.5	1	2.4	1	4	10.994	1	4	15.991	1	4	8.994	1	4	13.082	0.178	0.081
95	0.5	0.05	10.5	1.5	2.4	1	4	10.994	1	4	15.991	1	4	8.994	1	4	13.082	0.178	0.081
95	0.5	0.05	10.5	2	2.35	1	4	10.681	1	4	15.536	1	4	8.681	1	4	12.627	0.178	0.081
95	0.5	0.05	10.5	2.5	2.3	1	4	10.369	1	4	15.082	1	4	8.369	1	4	12.173	0.178	0.081
95	0.5	0.05	10.5	3	2.21	1	4	9.806	1	4	14.264	1	4	7.806	1	4	11.355	0.178	0.081
95	0.5	0.05	14.5	0.05	2.05	1	4	8.806	1	4	12.809	1	4	6.806	1	4	9.900	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.5	0.05	14.5	1	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.5	0.05	14.5	1.5	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.5	0.05	14.5	2	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.5	0.05	14.5	2.5	2	1	4	8.494	1	4	12.355	1	4	6.494	1	4	9.445	0.178	0.081
95	0.5	0.05	14.5	3	1.95	1	4	8.181	1	4	11.900	1	4	6.181	1	4	8.991	0.178	0.081
95	0.5	0.1	4.5	0.05	4.7	2	4	24.863	2	4	36.164	2	4	22.863	2	4	33.255	0.178	0.081
95	0.5	0.1	4.5	1	3.9	2	4	19.863	2	4	28.891	2	4	17.863	2	4	25.982	0.178	0.081
95	0.5	0.1	4.5	1.5	3.5	2	4	17.363	2	4	25.255	2	4	15.363	2	4	22.345	0.178	0.081
95	0.5	0.1	4.5	2	3.3	2	4	16.113	2	4	23.436	2	4	14.113	2	4	20.527	0.178	0.081
95	0.5	0.1	4.5	2.5	3.1	2	4	14.863	2	4	21.618	2	4	12.863	2	4	18.709	0.178	0.081
95	0.5	0.1	4.5	3	2.9	2	4	13.613	2	4	19.800	2	4	11.613	2	4	16.891	0.178	0.081
95	0.5	0.1	6	0.05	4.05	2	4	20.800	2	4	30.255	2	4	18.800	2	4	27.345	0.178	0.081
95	0.5	0.1	6	1	3.3	2	4	16.113	2	4	23.436	2	4	14.113	2	4	20.527	0.178	0.081
95	0.5	0.1	6	1.5	3	2	4	14.238	2	4	20.709	2	4	12.238	2	4	17.800	0.178	0.081
95	0.5	0.1	6	2	2.9	2	4	13.613	2	4	19.800	2	4	11.613	2	4	16.891	0.178	0.081
95	0.5	0.1	6	2.5	2.8	2	4	12.988	2	4	18.891	2	4	10.988	2	4	15.982	0.178	0.081
95	0.5	0.1	6	3	2.65	2	4	12.050	2	4	17.527	2	4	10.050	2	4	14.618	0.178	0.081
95	0.5	0.1	8.3	0.05	3.4	2	4	16.738	2	4	24.345	2	4	14.738	2	4	21.436	0.178	0.081
95	0.5	0.1	8.3	1	2.9	2	4	13.613	2	4	19.800	2	4	11.613	2	4	16.891	0.178	0.081
95	0.5	0.1	8.3	1.5	2.7	2	4	12.363	2	4	17.982	2	4	10.363	2	4	15.073	0.178	0.081
95	0.5	0.1	8.3	2	2.6	2	4	11.738	2	4	17.073	2	4	9.738	2	4	14.164	0.178	0.081
95	0.5	0.1	8.3	2.5	2.5	2	4	11.113	2	4	16.164	2	4	9.113	2	4	13.255	0.178	0.081
95	0.5	0.1	8.3	3	2.4	2	4	10.488	2	4	15.255	2	4	8.488	2	4	12.345	0.178	0.081
95	0.5	0.1	10.5	0.05	2.75	2	4	12.675	2	4	18.436	2	4	10.675	2	4	15.527	0.178	0.081
95	0.5	0.1	10.5	1	2.4	2	4	10.488	2	4	15.255	2	4	8.488	2	4	12.345	0.178	0.081
95	0.5	0.1	10.5	1.5	2.3	2	4	9.863	2	4	14.345	2	4	7.863	2	4	11.436	0.178	0.081
95	0.5	0.1	10.5	2	2.2	2	4	9.238	2	4	13.436	2	4	7.238	2	4	10.527	0.178	0.081
95	0.5	0.1	10.5	2.5	2.2	2	4	9.238	2	4	13.436	2	4	7.238	2	4	10.527	0.178	0.081
95	0.5	0.1	10.5	3	2.15	2	4	8.925	2	4	12.982	2	4	6.925	2	4	10.073	0.178	0.081
95	0.5	0.1	14.5	0.05	2.1	2	4	8.613	2	4	12.527	2	4	6.613	2	4	9.618	0.178	0.081
95	0.5	0.1	14.5	1	2	2	4	7.988	2	4	11.618	2	4	5.988	2	4	8.709	0.178	0.081
95	0.5	0.1	14.5	1.5	1.9	2	4	7.363	2	4	10.709	2	4	5.363	2	4	7.800	0.178	0.081
95	0.5	0.1	14.5	2	1.9	2	4	7.363	2	4	10.709	2	4	5.363	2	4	7.800	0.178	0.081
95	0.5	0.1	14.5	2.5	1.9	2	4	7.363	2	4	10.709	2	4	5.363	2	4	7.800	0.178	0.081
95	0.5	0.1	14.5	3	1.9	2	4	7.363	2	4	10.709	2	4	5.363	2	4	7.800	0.178	0.081
95	0.5	0.3	4.5	0.05	6	2.5	4	32.734	2.5	4	47.614	2.5	4	30.734	2.5	4	44.705	0.178	0.081
95	0.5	0.3	4.5	1	4.6	2.5	4	23.984	2.5	4	34.886	2.5	4	21.984	2.5	4	31.977	0.178	0.081
95	0.5	0.3	4.5	1.5	4.2	2.5	4	21.484	2.5	4	31.250	2.5	4	19.484	2.5	4	28.341	0.178	0.081
95	0.5	0.3	4.5	2	3.9	2.5	4	19.609	2.5	4	28.523	2.5	4	17.609	2.5	4	25.614	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.5	0.3	4.5	2.5	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.5	0.3	4.5	3	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.5	0.3	6	0.05	5.2	2.5	4	27.734	2.5	4	40.341	2.5	4	25.734	2.5	4	37.432	0.178	0.081
95	0.5	0.3	6	1	4	2.5	4	20.234	2.5	4	29.432	2.5	4	18.234	2.5	4	26.523	0.178	0.081
95	0.5	0.3	6	1.5	3.8	2.5	4	18.984	2.5	4	27.614	2.5	4	16.984	2.5	4	24.705	0.178	0.081
95	0.5	0.3	6	2	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.5	0.3	6	2.5	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081
95	0.5	0.3	6	3	3.22	2.5	4	15.359	2.5	4	22.341	2.5	4	13.359	2.5	4	19.432	0.178	0.081
95	0.5	0.3	8.3	0.05	4.4	2.5	4	22.734	2.5	4	33.068	2.5	4	20.734	2.5	4	30.159	0.178	0.081
95	0.5	0.3	8.3	1	3.8	2.5	4	18.984	2.5	4	27.614	2.5	4	16.984	2.5	4	24.705	0.178	0.081
95	0.5	0.3	8.3	1.5	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.5	0.3	8.3	2	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081
95	0.5	0.3	8.3	2.5	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.5	0.3	8.3	3	2.95	2.5	4	13.672	2.5	4	19.886	2.5	4	11.672	2.5	4	16.977	0.178	0.081
95	0.5	0.3	10.5	0.05	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.5	0.3	10.5	1	3.1	2.5	4	14.609	2.5	4	21.250	2.5	4	12.609	2.5	4	18.341	0.178	0.081
95	0.5	0.3	10.5	1.5	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.5	0.3	10.5	2	2.9	2.5	4	13.359	2.5	4	19.432	2.5	4	11.359	2.5	4	16.523	0.178	0.081
95	0.5	0.3	10.5	2.5	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.5	0.3	10.5	3	2.67	2.5	4	11.922	2.5	4	17.341	2.5	4	9.922	2.5	4	14.432	0.178	0.081
95	0.5	0.3	14.5	0.05	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.5	0.3	14.5	1	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.5	0.3	14.5	1.5	2.5	2.5	4	10.859	2.5	4	15.795	2.5	4	8.859	2.5	4	12.886	0.178	0.081
95	0.5	0.3	14.5	2	2.5	2.5	4	10.859	2.5	4	15.795	2.5	4	8.859	2.5	4	12.886	0.178	0.081
95	0.5	0.3	14.5	2.5	2.4	2.5	4	10.234	2.5	4	14.886	2.5	4	8.234	2.5	4	11.977	0.178	0.081
95	0.5	0.3	14.5	3	2.4	2.5	4	10.234	2.5	4	14.886	2.5	4	8.234	2.5	4	11.977	0.178	0.081
95	0.5	0.5	4.5	0.05	6.1	2.5	4	33.359	2.5	4	48.523	2.5	4	31.359	2.5	4	45.614	0.178	0.081
95	0.5	0.5	4.5	1	4.8	2.5	4	25.234	2.5	4	36.705	2.5	4	23.234	2.5	4	33.795	0.178	0.081
95	0.5	0.5	4.5	1.5	4.5	2.5	4	23.359	2.5	4	33.977	2.5	4	21.359	2.5	4	31.068	0.178	0.081
95	0.5	0.5	4.5	2	4.2	2.5	4	21.484	2.5	4	31.250	2.5	4	19.484	2.5	4	28.341	0.178	0.081
95	0.5	0.5	4.5	2.5	3.9	2.5	4	19.609	2.5	4	28.523	2.5	4	17.609	2.5	4	25.614	0.178	0.081
95	0.5	0.5	4.5	3	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.5	0.5	6	0.05	5.37	2.5	4	28.797	2.5	4	41.886	2.5	4	26.797	2.5	4	38.977	0.178	0.081
95	0.5	0.5	6	1	4.3	2.5	4	22.109	2.5	4	32.159	2.5	4	20.109	2.5	4	29.250	0.178	0.081
95	0.5	0.5	6	1.5	3.9	2.5	4	19.609	2.5	4	28.523	2.5	4	17.609	2.5	4	25.614	0.178	0.081
95	0.5	0.5	6	2	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.5	0.5	6	2.5	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.5	0.5	6	3	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081
95	0.5	0.5	8.3	0.05	4.65	2.5	4	24.297	2.5	4	35.341	2.5	4	22.297	2.5	4	32.432	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.5	0.5	8.3	1	4	2.5	4	20.234	2.5	4	29.432	2.5	4	18.234	2.5	4	26.523	0.178	0.081
95	0.5	0.5	8.3	1.5	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.5	0.5	8.3	2	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081
95	0.5	0.5	8.3	2.5	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.5	0.5	8.3	3	3.1	2.5	4	14.609	2.5	4	21.250	2.5	4	12.609	2.5	4	18.341	0.178	0.081
95	0.5	0.5	10.5	0.05	3.92	2.5	4	19.734	2.5	4	28.705	2.5	4	17.734	2.5	4	25.795	0.178	0.081
95	0.5	0.5	10.5	1	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.5	0.5	10.5	1.5	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.5	0.5	10.5	2	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.5	0.5	10.5	2.5	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.5	0.5	10.5	3	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.5	0.5	14.5	0.05	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.5	0.5	14.5	1	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.5	0.5	14.5	1.5	2.9	2.5	4	13.359	2.5	4	19.432	2.5	4	11.359	2.5	4	16.523	0.178	0.081
95	0.5	0.5	14.5	2	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.5	0.5	14.5	2.5	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.5	0.5	14.5	3	2.5	2.5	4	10.859	2.5	4	15.795	2.5	4	8.859	2.5	4	12.886	0.178	0.081
95	0.5	1	4.5	0.05	6.9	3	6	36.356	3	6	52.882	3	6	33.356	3	6	48.518	0.178	0.081
95	0.5	1	4.5	1	5	3	6	24.481	3	6	35.609	3	6	21.481	3	6	31.245	0.178	0.081
95	0.5	1	4.5	1.5	4.6	3	6	21.981	3	6	31.973	3	6	18.981	3	6	27.609	0.178	0.081
95	0.5	1	4.5	2	4.4	3	6	20.731	3	6	30.155	3	6	17.731	3	6	25.791	0.178	0.081
95	0.5	1	4.5	2.5	4.2	3	6	19.481	3	6	28.336	3	6	16.481	3	6	23.973	0.178	0.081
95	0.5	1	4.5	3	4	3	6	18.231	3	6	26.518	3	6	15.231	3	6	22.155	0.178	0.081
95	0.5	1	6	0.05	6.3	3	6	32.606	3	6	47.427	3	6	29.606	3	6	43.064	0.178	0.081
95	0.5	1	6	1	4.8	3	6	23.231	3	6	33.791	3	6	20.231	3	6	29.427	0.178	0.081
95	0.5	1	6	1.5	4.4	3	6	20.731	3	6	30.155	3	6	17.731	3	6	25.791	0.178	0.081
95	0.5	1	6	2	4.2	3	6	19.481	3	6	28.336	3	6	16.481	3	6	23.973	0.178	0.081
95	0.5	1	6	2.5	4	3	6	18.231	3	6	26.518	3	6	15.231	3	6	22.155	0.178	0.081
95	0.5	1	6	3	3.75	3	6	16.669	3	6	24.245	3	6	13.669	3	6	19.882	0.178	0.081
95	0.5	1	8.3	0.05	5.7	3	6	28.856	3	6	41.973	3	6	25.856	3	6	37.609	0.178	0.081
95	0.5	1	8.3	1	4.3	3	6	20.106	3	6	29.245	3	6	17.106	3	6	24.882	0.178	0.081
95	0.5	1	8.3	1.5	4.1	3	6	18.856	3	6	27.427	3	6	15.856	3	6	23.064	0.178	0.081
95	0.5	1	8.3	2	3.9	3	6	17.606	3	6	25.609	3	6	14.606	3	6	21.245	0.178	0.081
95	0.5	1	8.3	2.5	3.7	3	6	16.356	3	6	23.791	3	6	13.356	3	6	19.427	0.178	0.081
95	0.5	1	8.3	3	3.5	3	6	15.106	3	6	21.973	3	6	12.106	3	6	17.609	0.178	0.081
95	0.5	1	10.5	0.05	5.1	3	6	25.106	3	6	36.518	3	6	22.106	3	6	32.155	0.178	0.081
95	0.5	1	10.5	1	4.1	3	6	18.856	3	6	27.427	3	6	15.856	3	6	23.064	0.178	0.081
95	0.5	1	10.5	1.5	3.9	3	6	17.606	3	6	25.609	3	6	14.606	3	6	21.245	0.178	0.081
95	0.5	1	10.5	2	3.7	3	6	16.356	3	6	23.791	3	6	13.356	3	6	19.427	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.5	1	10.5	2.5	3.5	3	6	15.106	3	6	21.973	3	6	12.106	3	6	17.609	0.178	0.081
95	0.5	1	10.5	3	3.25	3	6	13.544	3	6	19.700	3	6	10.544	3	6	15.336	0.178	0.081
95	0.5	1	14.5	0.05	4.5	3	6	21.356	3	6	31.064	3	6	18.356	3	6	26.700	0.178	0.081
95	0.5	1	14.5	1	3.9	3	6	17.606	3	6	25.609	3	6	14.606	3	6	21.245	0.178	0.081
95	0.5	1	14.5	1.5	3.6	3	6	15.731	3	6	22.882	3	6	12.731	3	6	18.518	0.178	0.081
95	0.5	1	14.5	2	3.4	3	6	14.481	3	6	21.064	3	6	11.481	3	6	16.700	0.178	0.081
95	0.5	1	14.5	2.5	3.2	3	6	13.231	3	6	19.245	3	6	10.231	3	6	14.882	0.178	0.081
95	0.5	1	14.5	3	3	3	6	11.981	3	6	17.427	3	6	8.981	3	6	13.064	0.178	0.081
95	0.5	3	4.5	0.05	7.9	3.5	6	42.353	3.5	6	61.605	3.5	6	39.353	3.5	6	57.241	0.178	0.081
95	0.5	3	4.5	1	6	3.5	6	30.478	3.5	6	44.332	3.5	6	27.478	3.5	6	39.968	0.178	0.081
95	0.5	3	4.5	1.5	5.6	3.5	6	27.978	3.5	6	40.695	3.5	6	24.978	3.5	6	36.332	0.178	0.081
95	0.5	3	4.5	2	5.3	3.5	6	26.103	3.5	6	37.968	3.5	6	23.103	3.5	6	33.605	0.178	0.081
95	0.5	3	4.5	2.5	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.5	3	4.5	3	4.7	3.5	6	22.353	3.5	6	32.514	3.5	6	19.353	3.5	6	28.150	0.178	0.081
95	0.5	3	6	0.05	7.22	3.5	6	38.103	3.5	6	55.423	3.5	6	35.103	3.5	6	51.059	0.178	0.081
95	0.5	3	6	1	5.5	3.5	6	27.353	3.5	6	39.786	3.5	6	24.353	3.5	6	35.423	0.178	0.081
95	0.5	3	6	1.5	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.5	3	6	2	4.7	3.5	6	22.353	3.5	6	32.514	3.5	6	19.353	3.5	6	28.150	0.178	0.081
95	0.5	3	6	2.5	4.5	3.5	6	21.103	3.5	6	30.695	3.5	6	18.103	3.5	6	26.332	0.178	0.081
95	0.5	3	6	3	4.32	3.5	6	19.978	3.5	6	29.059	3.5	6	16.978	3.5	6	24.695	0.178	0.081
95	0.5	3	8.3	0.05	6.55	3.5	6	33.916	3.5	6	49.332	3.5	6	30.916	3.5	6	44.968	0.178	0.081
95	0.5	3	8.3	1	5.6	3.5	6	27.978	3.5	6	40.695	3.5	6	24.978	3.5	6	36.332	0.178	0.081
95	0.5	3	8.3	1.5	5.3	3.5	6	26.103	3.5	6	37.968	3.5	6	23.103	3.5	6	33.605	0.178	0.081
95	0.5	3	8.3	2	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.5	3	8.3	2.5	4.2	3.5	6	19.228	3.5	6	27.968	3.5	6	16.228	3.5	6	23.605	0.178	0.081
95	0.5	3	8.3	3	3.95	3.5	6	17.666	3.5	6	25.695	3.5	6	14.666	3.5	6	21.332	0.178	0.081
95	0.5	3	10.5	0.05	5.87	3.5	6	29.666	3.5	6	43.150	3.5	6	26.666	3.5	6	38.786	0.178	0.081
95	0.5	3	10.5	1	5.2	3.5	6	25.478	3.5	6	37.059	3.5	6	22.478	3.5	6	32.695	0.178	0.081
95	0.5	3	10.5	1.5	4.4	3.5	6	20.478	3.5	6	29.786	3.5	6	17.478	3.5	6	25.423	0.178	0.081
95	0.5	3	10.5	2	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.5	3	10.5	2.5	3.8	3.5	6	16.728	3.5	6	24.332	3.5	6	13.728	3.5	6	19.968	0.178	0.081
95	0.5	3	10.5	3	3.57	3.5	6	15.291	3.5	6	22.241	3.5	6	12.291	3.5	6	17.877	0.178	0.081
95	0.5	3	14.5	0.05	5.2	3.5	6	25.478	3.5	6	37.059	3.5	6	22.478	3.5	6	32.695	0.178	0.081
95	0.5	3	14.5	1	4.5	3.5	6	21.103	3.5	6	30.695	3.5	6	18.103	3.5	6	26.332	0.178	0.081
95	0.5	3	14.5	1.5	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.5	3	14.5	2	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.5	3	14.5	2.5	3.7	3.5	6	16.103	3.5	6	23.423	3.5	6	13.103	3.5	6	19.059	0.178	0.081
95	0.5	3	14.5	3	3.2	3.5	6	12.978	3.5	6	18.877	3.5	6	9.978	3.5	6	14.514	0.178	0.081
95	0.5	5	4.5	0.05	9.4	3.5	6	51.728	3.5	6	75.241	3.5	6	48.728	3.5	6	70.877	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.5	5	4.5	1	7	3.5	6	36.728	3.5	6	53.423	3.5	6	33.728	3.5	6	49.059	0.178	0.081
95	0.5	5	4.5	1.5	6.4	3.5	6	32.978	3.5	6	47.968	3.5	6	29.978	3.5	6	43.605	0.178	0.081
95	0.5	5	4.5	2	6	3.5	6	30.478	3.5	6	44.332	3.5	6	27.478	3.5	6	39.968	0.178	0.081
95	0.5	5	4.5	2.5	5.6	3.5	6	27.978	3.5	6	40.695	3.5	6	24.978	3.5	6	36.332	0.178	0.081
95	0.5	5	4.5	3	5.2	3.5	6	25.478	3.5	6	37.059	3.5	6	22.478	3.5	6	32.695	0.178	0.081
95	0.5	5	6	0.05	8.57	3.5	6	46.541	3.5	6	67.695	3.5	6	43.541	3.5	6	63.332	0.178	0.081
95	0.5	5	6	1	6.6	3.5	6	34.228	3.5	6	49.786	3.5	6	31.228	3.5	6	45.423	0.178	0.081
95	0.5	5	6	1.5	5.9	3.5	6	29.853	3.5	6	43.423	3.5	6	26.853	3.5	6	39.059	0.178	0.081
95	0.5	5	6	2	5.4	3.5	6	26.728	3.5	6	38.877	3.5	6	23.728	3.5	6	34.514	0.178	0.081
95	0.5	5	6	2.5	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.5	5	6	3	4.82	3.5	6	23.103	3.5	6	33.605	3.5	6	20.103	3.5	6	29.241	0.178	0.081
95	0.5	5	8.3	0.05	7.75	3.5	6	41.416	3.5	6	60.241	3.5	6	38.416	3.5	6	55.877	0.178	0.081
95	0.5	5	8.3	1	5.2	3.5	6	25.478	3.5	6	37.059	3.5	6	22.478	3.5	6	32.695	0.178	0.081
95	0.5	5	8.3	1.5	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.5	5	8.3	2	4.8	3.5	6	22.978	3.5	6	33.423	3.5	6	19.978	3.5	6	29.059	0.178	0.081
95	0.5	5	8.3	2.5	4.6	3.5	6	21.728	3.5	6	31.605	3.5	6	18.728	3.5	6	27.241	0.178	0.081
95	0.5	5	8.3	3	4.45	3.5	6	20.791	3.5	6	30.241	3.5	6	17.791	3.5	6	25.877	0.178	0.081
95	0.5	5	10.5	0.05	6.92	3.5	6	36.228	3.5	6	52.695	3.5	6	33.228	3.5	6	48.332	0.178	0.081
95	0.5	5	10.5	1	4.8	3.5	6	22.978	3.5	6	33.423	3.5	6	19.978	3.5	6	29.059	0.178	0.081
95	0.5	5	10.5	1.5	4.6	3.5	6	21.728	3.5	6	31.605	3.5	6	18.728	3.5	6	27.241	0.178	0.081
95	0.5	5	10.5	2	4.4	3.5	6	20.478	3.5	6	29.786	3.5	6	17.478	3.5	6	25.423	0.178	0.081
95	0.5	5	10.5	2.5	4.2	3.5	6	19.228	3.5	6	27.968	3.5	6	16.228	3.5	6	23.605	0.178	0.081
95	0.5	5	10.5	3	4.07	3.5	6	18.416	3.5	6	26.786	3.5	6	15.416	3.5	6	22.423	0.178	0.081
95	0.5	5	14.5	0.05	6.1	3.5	6	31.103	3.5	6	45.241	3.5	6	28.103	3.5	6	40.877	0.178	0.081
95	0.5	5	14.5	1	4.5	3.5	6	21.103	3.5	6	30.695	3.5	6	18.103	3.5	6	26.332	0.178	0.081
95	0.5	5	14.5	1.5	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.5	5	14.5	2	4.1	3.5	6	18.603	3.5	6	27.059	3.5	6	15.603	3.5	6	22.695	0.178	0.081
95	0.5	5	14.5	2.5	3.9	3.5	6	17.353	3.5	6	25.241	3.5	6	14.353	3.5	6	20.877	0.178	0.081
95	0.5	5	14.5	3	3.7	3.5	6	16.103	3.5	6	23.423	3.5	6	13.103	3.5	6	19.059	0.178	0.081
95	0.5	10	4.5	0.05	9	4	6	48.975	4	6	71.236	4	6	45.975	4	6	66.873	0.178	0.081
95	0.5	10	4.5	1	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.5	10	4.5	1.5	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.5	10	4.5	2	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.5	10	4.5	2.5	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.5	10	4.5	3	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.5	10	6	0.05	8.3	4	6	44.600	4	6	64.873	4	6	41.600	4	6	60.509	0.178	0.081
95	0.5	10	6	1	7.6	4	6	40.225	4	6	58.509	4	6	37.225	4	6	54.145	0.178	0.081
95	0.5	10	6	1.5	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.5	10	6	2	5.8	4	6	28.975	4	6	42.145	4	6	25.975	4	6	37.782	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.5	10	6	2.5	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.5	10	6	3	4.7	4	6	22.100	4	6	32.145	4	6	19.100	4	6	27.782	0.178	0.081
95	0.5	10	8.3	0.05	7.8	4	6	41.475	4	6	60.327	4	6	38.475	4	6	55.964	0.178	0.081
95	0.5	10	8.3	1	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.5	10	8.3	1.5	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.5	10	8.3	2	5.1	4	6	24.600	4	6	35.782	4	6	21.600	4	6	31.418	0.178	0.081
95	0.5	10	8.3	2.5	4.7	4	6	22.100	4	6	32.145	4	6	19.100	4	6	27.782	0.178	0.081
95	0.5	10	8.3	3	4.4	4	6	20.225	4	6	29.418	4	6	17.225	4	6	25.055	0.178	0.081
95	0.5	10	10.5	0.05	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.5	10	10.5	1	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.5	10	10.5	1.5	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.5	10	10.5	2	4.7	4	6	22.100	4	6	32.145	4	6	19.100	4	6	27.782	0.178	0.081
95	0.5	10	10.5	2.5	4.5	4	6	20.850	4	6	30.327	4	6	17.850	4	6	25.964	0.178	0.081
95	0.5	10	10.5	3	4.1	4	6	18.350	4	6	26.691	4	6	15.350	4	6	22.327	0.178	0.081
95	0.5	10	14.5	0.05	6.1	4	6	30.850	4	6	44.873	4	6	27.850	4	6	40.509	0.178	0.081
95	0.5	10	14.5	1	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.5	10	14.5	1.5	4.7	4	6	22.100	4	6	32.145	4	6	19.100	4	6	27.782	0.178	0.081
95	0.5	10	14.5	2	4.4	4	6	20.225	4	6	29.418	4	6	17.225	4	6	25.055	0.178	0.081
95	0.5	10	14.5	2.5	4.1	4	6	18.350	4	6	26.691	4	6	15.350	4	6	22.327	0.178	0.081
95	0.5	10	14.5	3	3.8	4	6	16.475	4	6	23.964	4	6	13.475	4	6	19.600	0.178	0.081
95	0.5	30	4.5	0.05	10	4	6	55.225	4	6	80.327	4	6	52.225	4	6	75.964	0.178	0.081
95	0.5	30	4.5	1	7.7	4	6	40.850	4	6	59.418	4	6	37.850	4	6	55.055	0.178	0.081
95	0.5	30	4.5	1.5	7.3	4	6	38.350	4	6	55.782	4	6	35.350	4	6	51.418	0.178	0.081
95	0.5	30	4.5	2	6.7	4	6	34.600	4	6	50.327	4	6	31.600	4	6	45.964	0.178	0.081
95	0.5	30	4.5	2.5	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.5	30	4.5	3	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.5	30	6	0.05	9.5	4	6	52.100	4	6	75.782	4	6	49.100	4	6	71.418	0.178	0.081
95	0.5	30	6	1	8.1	4	6	43.350	4	6	63.055	4	6	40.350	4	6	58.691	0.178	0.081
95	0.5	30	6	1.5	7.3	4	6	38.350	4	6	55.782	4	6	35.350	4	6	51.418	0.178	0.081
95	0.5	30	6	2	6.6	4	6	33.975	4	6	49.418	4	6	30.975	4	6	45.055	0.178	0.081
95	0.5	30	6	2.5	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.5	30	6	3	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.5	30	8.3	0.05	8.9	4	6	48.350	4	6	70.327	4	6	45.350	4	6	65.964	0.178	0.081
95	0.5	30	8.3	1	6.9	4	6	35.850	4	6	52.145	4	6	32.850	4	6	47.782	0.178	0.081
95	0.5	30	8.3	1.5	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.5	30	8.3	2	5.8	4	6	28.975	4	6	42.145	4	6	25.975	4	6	37.782	0.178	0.081
95	0.5	30	8.3	2.5	5.4	4	6	26.475	4	6	38.509	4	6	23.475	4	6	34.145	0.178	0.081
95	0.5	30	8.3	3	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.5	30	10.5	0.05	8.2	4	6	43.975	4	6	63.964	4	6	40.975	4	6	59.600	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.5	30	10.5	1	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.5	30	10.5	1.5	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.5	30	10.5	2	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.5	30	10.5	2.5	5.1	4	6	24.600	4	6	35.782	4	6	21.600	4	6	31.418	0.178	0.081
95	0.5	30	10.5	3	4.6	4	6	21.475	4	6	31.236	4	6	18.475	4	6	26.873	0.178	0.081
95	0.5	30	14.5	0.05	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.5	30	14.5	1	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.5	30	14.5	1.5	5.6	4	6	27.725	4	6	40.327	4	6	24.725	4	6	35.964	0.178	0.081
95	0.5	30	14.5	2	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.5	30	14.5	2.5	4.8	4	6	22.725	4	6	33.055	4	6	19.725	4	6	28.691	0.178	0.081
95	0.5	30	14.5	3	4.4	4	6	20.225	4	6	29.418	4	6	17.225	4	6	25.055	0.178	0.081
95	0.5	50	4.5	0.05	11	4	6	61.475	4	6	89.418	4	6	58.475	4	6	85.055	0.178	0.081
95	0.5	50	4.5	1	8.5	4	6	45.850	4	6	66.691	4	6	42.850	4	6	62.327	0.178	0.081
95	0.5	50	4.5	1.5	8	4	6	42.725	4	6	62.145	4	6	39.725	4	6	57.782	0.178	0.081
95	0.5	50	4.5	2	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.5	50	4.5	2.5	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.5	50	4.5	3	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.5	50	6	0.05	10.5	4	6	58.350	4	6	84.873	4	6	55.350	4	6	80.509	0.178	0.081
95	0.5	50	6	1	8.5	4	6	45.850	4	6	66.691	4	6	42.850	4	6	62.327	0.178	0.081
95	0.5	50	6	1.5	8	4	6	42.725	4	6	62.145	4	6	39.725	4	6	57.782	0.178	0.081
95	0.5	50	6	2	7.2	4	6	37.725	4	6	54.873	4	6	34.725	4	6	50.509	0.178	0.081
95	0.5	50	6	2.5	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.5	50	6	3	5.75	4	6	28.663	4	6	41.691	4	6	25.663	4	6	37.327	0.178	0.081
95	0.5	50	8.3	0.05	10	4	6	55.225	4	6	80.327	4	6	52.225	4	6	75.964	0.178	0.081
95	0.5	50	8.3	1	7.8	4	6	41.475	4	6	60.327	4	6	38.475	4	6	55.964	0.178	0.081
95	0.5	50	8.3	1.5	6.9	4	6	35.850	4	6	52.145	4	6	32.850	4	6	47.782	0.178	0.081
95	0.5	50	8.3	2	6.3	4	6	32.100	4	6	46.691	4	6	29.100	4	6	42.327	0.178	0.081
95	0.5	50	8.3	2.5	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.5	50	8.3	3	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.5	50	10.5	0.05	9.5	4	6	52.100	4	6	75.782	4	6	49.100	4	6	71.418	0.178	0.081
95	0.5	50	10.5	1	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.5	50	10.5	1.5	6.9	4	6	35.850	4	6	52.145	4	6	32.850	4	6	47.782	0.178	0.081
95	0.5	50	10.5	2	6.3	4	6	32.100	4	6	46.691	4	6	29.100	4	6	42.327	0.178	0.081
95	0.5	50	10.5	2.5	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.5	50	10.5	3	5.25	4	6	25.538	4	6	37.145	4	6	22.538	4	6	32.782	0.178	0.081
95	0.5	50	14.5	0.05	9	4	6	48.975	4	6	71.236	4	6	45.975	4	6	66.873	0.178	0.081
95	0.5	50	14.5	1	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.5	50	14.5	1.5	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.5	50	14.5	2	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.5	50	14.5	2.5	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.5	50	14.5	3	5	4	6	23.975	4	6	34.873	4	6	20.975	4	6	30.509	0.178	0.081
95	0.6	0.05	4.5	0.05	4.2	1	4	22.244	1	4	32.355	1	4	20.244	1	4	29.445	0.178	0.081
95	0.6	0.05	4.5	1	3.4	1	4	17.244	1	4	25.082	1	4	15.244	1	4	22.173	0.178	0.081
95	0.6	0.05	4.5	1.5	3.3	1	4	16.619	1	4	24.173	1	4	14.619	1	4	21.264	0.178	0.081
95	0.6	0.05	4.5	2	3.1	1	4	15.369	1	4	22.355	1	4	13.369	1	4	19.445	0.178	0.081
95	0.6	0.05	4.5	2.5	3	1	4	14.744	1	4	21.445	1	4	12.744	1	4	18.536	0.178	0.081
95	0.6	0.05	4.5	3	2.9	1	4	14.119	1	4	20.536	1	4	12.119	1	4	17.627	0.178	0.081
95	0.6	0.05	6	0.05	3.7	1	4	19.119	1	4	27.809	1	4	17.119	1	4	24.900	0.178	0.081
95	0.6	0.05	6	1	3	1	4	14.744	1	4	21.445	1	4	12.744	1	4	18.536	0.178	0.081
95	0.6	0.05	6	1.5	2.9	1	4	14.119	1	4	20.536	1	4	12.119	1	4	17.627	0.178	0.081
95	0.6	0.05	6	2	2.8	1	4	13.494	1	4	19.627	1	4	11.494	1	4	16.718	0.178	0.081
95	0.6	0.05	6	2.5	2.7	1	4	12.869	1	4	18.718	1	4	10.869	1	4	15.809	0.178	0.081
95	0.6	0.05	6	3	2.7	1	4	12.869	1	4	18.718	1	4	10.869	1	4	15.809	0.178	0.081
95	0.6	0.05	8.3	0.05	3.2	1	4	15.994	1	4	23.264	1	4	13.994	1	4	20.355	0.178	0.081
95	0.6	0.05	8.3	1	2.7	1	4	12.869	1	4	18.718	1	4	10.869	1	4	15.809	0.178	0.081
95	0.6	0.05	8.3	1.5	2.6	1	4	12.244	1	4	17.809	1	4	10.244	1	4	14.900	0.178	0.081
95	0.6	0.05	8.3	2	2.6	1	4	12.244	1	4	17.809	1	4	10.244	1	4	14.900	0.178	0.081
95	0.6	0.05	8.3	2.5	2.5	1	4	11.619	1	4	16.900	1	4	9.619	1	4	13.991	0.178	0.081
95	0.6	0.05	8.3	3	2.5	1	4	11.619	1	4	16.900	1	4	9.619	1	4	13.991	0.178	0.081
95	0.6	0.05	10.5	0.05	2.7	1	4	12.869	1	4	18.718	1	4	10.869	1	4	15.809	0.178	0.081
95	0.6	0.05	10.5	1	2.4	1	4	10.994	1	4	15.991	1	4	8.994	1	4	13.082	0.178	0.081
95	0.6	0.05	10.5	1.5	2.4	1	4	10.994	1	4	15.991	1	4	8.994	1	4	13.082	0.178	0.081
95	0.6	0.05	10.5	2	2.3	1	4	10.369	1	4	15.082	1	4	8.369	1	4	12.173	0.178	0.081
95	0.6	0.05	10.5	2.5	2.3	1	4	10.369	1	4	15.082	1	4	8.369	1	4	12.173	0.178	0.081
95	0.6	0.05	10.5	3	2.3	1	4	10.369	1	4	15.082	1	4	8.369	1	4	12.173	0.178	0.081
95	0.6	0.05	14.5	0.05	2.2	1	4	9.744	1	4	14.173	1	4	7.744	1	4	11.264	0.178	0.081
95	0.6	0.05	14.5	1	2.1	1	4	9.119	1	4	13.264	1	4	7.119	1	4	10.355	0.178	0.081
95	0.6	0.05	14.5	1.5	2.1	1	4	9.119	1	4	13.264	1	4	7.119	1	4	10.355	0.178	0.081
95	0.6	0.05	14.5	2	2.1	1	4	9.119	1	4	13.264	1	4	7.119	1	4	10.355	0.178	0.081
95	0.6	0.05	14.5	2.5	2.1	1	4	9.119	1	4	13.264	1	4	7.119	1	4	10.355	0.178	0.081
95	0.6	0.05	14.5	3	2.1	1	4	9.119	1	4	13.264	1	4	7.119	1	4	10.355	0.178	0.081
95	0.6	0.1	4.5	0.05	5.2	2	4	27.988	2	4	40.709	2	4	25.988	2	4	37.800	0.178	0.081
95	0.6	0.1	4.5	1	4.2	2	4	21.738	2	4	31.618	2	4	19.738	2	4	28.709	0.178	0.081
95	0.6	0.1	4.5	1.5	3.9	2	4	19.863	2	4	28.891	2	4	17.863	2	4	25.982	0.178	0.081
95	0.6	0.1	4.5	2	3.6	2	4	17.988	2	4	26.164	2	4	15.988	2	4	23.255	0.178	0.081
95	0.6	0.1	4.5	2.5	3.4	2	4	16.738	2	4	24.345	2	4	14.738	2	4	21.436	0.178	0.081
95	0.6	0.1	4.5	3	3.2	2	4	15.488	2	4	22.527	2	4	13.488	2	4	19.618	0.178	0.081
95	0.6	0.1	6	0.05	4.7	2	4	24.863	2	4	36.164	2	4	22.863	2	4	33.255	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)	0.178	0.081
95	0.6	0.1	6	1	3.6	2	4	17.988	2	4	26.164	2	4	15.988	2	4	23.255	0.178	0.081
95	0.6	0.1	6	1.5	3.4	2	4	16.738	2	4	24.345	2	4	14.738	2	4	21.436	0.178	0.081
95	0.6	0.1	6	2	3.2	2	4	15.488	2	4	22.527	2	4	13.488	2	4	19.618	0.178	0.081
95	0.6	0.1	6	2.5	3	2	4	14.238	2	4	20.709	2	4	12.238	2	4	17.800	0.178	0.081
95	0.6	0.1	6	3	2.9	2	4	13.613	2	4	19.800	2	4	11.613	2	4	16.891	0.178	0.081
95	0.6	0.1	8.3	0.05	4.1	2	4	21.113	2	4	30.709	2	4	19.113	2	4	27.800	0.178	0.081
95	0.6	0.1	8.3	1	3.3	2	4	16.113	2	4	23.436	2	4	14.113	2	4	20.527	0.178	0.081
95	0.6	0.1	8.3	1.5	3	2	4	14.238	2	4	20.709	2	4	12.238	2	4	17.800	0.178	0.081
95	0.6	0.1	8.3	2	2.9	2	4	13.613	2	4	19.800	2	4	11.613	2	4	16.891	0.178	0.081
95	0.6	0.1	8.3	2.5	2.8	2	4	12.988	2	4	18.891	2	4	10.988	2	4	15.982	0.178	0.081
95	0.6	0.1	8.3	3	2.7	2	4	12.363	2	4	17.982	2	4	10.363	2	4	15.073	0.178	0.081
95	0.6	0.1	10.5	0.05	3.5	2	4	17.363	2	4	25.255	2	4	15.363	2	4	22.345	0.178	0.081
95	0.6	0.1	10.5	1	2.8	2	4	12.988	2	4	18.891	2	4	10.988	2	4	15.982	0.178	0.081
95	0.6	0.1	10.5	1.5	2.7	2	4	12.363	2	4	17.982	2	4	10.363	2	4	15.073	0.178	0.081
95	0.6	0.1	10.5	2	2.6	2	4	11.738	2	4	17.073	2	4	9.738	2	4	14.164	0.178	0.081
95	0.6	0.1	10.5	2.5	2.5	2	4	11.113	2	4	16.164	2	4	9.113	2	4	13.255	0.178	0.081
95	0.6	0.1	10.5	3	2.4	2	4	10.488	2	4	15.255	2	4	8.488	2	4	12.345	0.178	0.081
95	0.6	0.1	14.5	0.05	2.9	2	4	13.613	2	4	19.800	2	4	11.613	2	4	16.891	0.178	0.081
95	0.6	0.1	14.5	1	2.6	2	4	11.738	2	4	17.073	2	4	9.738	2	4	14.164	0.178	0.081
95	0.6	0.1	14.5	1.5	2.5	2	4	11.113	2	4	16.164	2	4	9.113	2	4	13.255	0.178	0.081
95	0.6	0.1	14.5	2	2.4	2	4	10.488	2	4	15.255	2	4	8.488	2	4	12.345	0.178	0.081
95	0.6	0.1	14.5	2.5	2.3	2	4	9.863	2	4	14.345	2	4	7.863	2	4	11.436	0.178	0.081
95	0.6	0.1	14.5	3	2.2	2	4	9.238	2	4	13.436	2	4	7.238	2	4	10.527	0.178	0.081
95	0.6	0.3	4.5	0.05	6	2.5	4	32.734	2.5	4	47.614	2.5	4	30.734	2.5	4	44.705	0.178	0.081
95	0.6	0.3	4.5	1	4.4	2.5	4	22.734	2.5	4	33.068	2.5	4	20.734	2.5	4	30.159	0.178	0.081
95	0.6	0.3	4.5	1.5	4.2	2.5	4	21.484	2.5	4	31.250	2.5	4	19.484	2.5	4	28.341	0.178	0.081
95	0.6	0.3	4.5	2	4	2.5	4	20.234	2.5	4	29.432	2.5	4	18.234	2.5	4	26.523	0.178	0.081
95	0.6	0.3	4.5	2.5	3.8	2.5	4	18.984	2.5	4	27.614	2.5	4	16.984	2.5	4	24.705	0.178	0.081
95	0.6	0.3	4.5	3	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.6	0.3	6	0.05	5.4	2.5	4	28.984	2.5	4	42.159	2.5	4	26.984	2.5	4	39.250	0.178	0.081
95	0.6	0.3	6	1	4	2.5	4	20.234	2.5	4	29.432	2.5	4	18.234	2.5	4	26.523	0.178	0.081
95	0.6	0.3	6	1.5	3.8	2.5	4	18.984	2.5	4	27.614	2.5	4	16.984	2.5	4	24.705	0.178	0.081
95	0.6	0.3	6	2	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.6	0.3	6	2.5	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081
95	0.6	0.3	6	3	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.6	0.3	8.3	0.05	4.8	2.5	4	25.234	2.5	4	36.705	2.5	4	23.234	2.5	4	33.795	0.178	0.081
95	0.6	0.3	8.3	1	3.8	2.5	4	18.984	2.5	4	27.614	2.5	4	16.984	2.5	4	24.705	0.178	0.081
95	0.6	0.3	8.3	1.5	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.6	0.3	8.3	2	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.6	0.3	8.3	2.5	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.6	0.3	8.3	3	3.1	2.5	4	14.609	2.5	4	21.250	2.5	4	12.609	2.5	4	18.341	0.178	0.081
95	0.6	0.3	10.5	0.05	4.2	2.5	4	21.484	2.5	4	31.250	2.5	4	19.484	2.5	4	28.341	0.178	0.081
95	0.6	0.3	10.5	1	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.6	0.3	10.5	1.5	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081
95	0.6	0.3	10.5	2	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.6	0.3	10.5	2.5	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.6	0.3	10.5	3	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.6	0.3	14.5	0.05	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.6	0.3	14.5	1	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.6	0.3	14.5	1.5	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.6	0.3	14.5	2	2.8	2.5	4	12.734	2.5	4	18.523	2.5	4	10.734	2.5	4	15.614	0.178	0.081
95	0.6	0.3	14.5	2.5	2.7	2.5	4	12.109	2.5	4	17.614	2.5	4	10.109	2.5	4	14.705	0.178	0.081
95	0.6	0.3	14.5	3	2.6	2.5	4	11.484	2.5	4	16.705	2.5	4	9.484	2.5	4	13.795	0.178	0.081
95	0.6	0.5	4.5	0.05	6.8	2.5	4	37.734	2.5	4	54.886	2.5	4	35.734	2.5	4	51.977	0.178	0.081
95	0.6	0.5	4.5	1	5	2.5	4	26.484	2.5	4	38.523	2.5	4	24.484	2.5	4	35.614	0.178	0.081
95	0.6	0.5	4.5	1.5	4.7	2.5	4	24.609	2.5	4	35.795	2.5	4	22.609	2.5	4	32.886	0.178	0.081
95	0.6	0.5	4.5	2	4.4	2.5	4	22.734	2.5	4	33.068	2.5	4	20.734	2.5	4	30.159	0.178	0.081
95	0.6	0.5	4.5	2.5	4.2	2.5	4	21.484	2.5	4	31.250	2.5	4	19.484	2.5	4	28.341	0.178	0.081
95	0.6	0.5	4.5	3	4	2.5	4	20.234	2.5	4	29.432	2.5	4	18.234	2.5	4	26.523	0.178	0.081
95	0.6	0.5	6	0.05	6.1	2.5	4	33.359	2.5	4	48.523	2.5	4	31.359	2.5	4	45.614	0.178	0.081
95	0.6	0.5	6	1	5.2	2.5	4	27.734	2.5	4	40.341	2.5	4	25.734	2.5	4	37.432	0.178	0.081
95	0.6	0.5	6	1.5	7	2.5	4	38.984	2.5	4	56.705	2.5	4	36.984	2.5	4	53.795	0.178	0.081
95	0.6	0.5	6	2	4.4	2.5	4	22.734	2.5	4	33.068	2.5	4	20.734	2.5	4	30.159	0.178	0.081
95	0.6	0.5	6	2.5	3.9	2.5	4	19.609	2.5	4	28.523	2.5	4	17.609	2.5	4	25.614	0.178	0.081
95	0.6	0.5	6	3	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.6	0.5	8.3	0.05	5.5	2.5	4	29.609	2.5	4	43.068	2.5	4	27.609	2.5	4	40.159	0.178	0.081
95	0.6	0.5	8.3	1	4.4	2.5	4	22.734	2.5	4	33.068	2.5	4	20.734	2.5	4	30.159	0.178	0.081
95	0.6	0.5	8.3	1.5	4.1	2.5	4	20.859	2.5	4	30.341	2.5	4	18.859	2.5	4	27.432	0.178	0.081
95	0.6	0.5	8.3	2	3.9	2.5	4	19.609	2.5	4	28.523	2.5	4	17.609	2.5	4	25.614	0.178	0.081
95	0.6	0.5	8.3	2.5	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.6	0.5	8.3	3	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.6	0.5	10.5	0.05	4.9	2.5	4	25.859	2.5	4	37.614	2.5	4	23.859	2.5	4	34.705	0.178	0.081
95	0.6	0.5	10.5	1	4.1	2.5	4	20.859	2.5	4	30.341	2.5	4	18.859	2.5	4	27.432	0.178	0.081
95	0.6	0.5	10.5	1.5	3.9	2.5	4	19.609	2.5	4	28.523	2.5	4	17.609	2.5	4	25.614	0.178	0.081
95	0.6	0.5	10.5	2	3.7	2.5	4	18.359	2.5	4	26.705	2.5	4	16.359	2.5	4	23.795	0.178	0.081
95	0.6	0.5	10.5	2.5	3.5	2.5	4	17.109	2.5	4	24.886	2.5	4	15.109	2.5	4	21.977	0.178	0.081
95	0.6	0.5	10.5	3	3.3	2.5	4	15.859	2.5	4	23.068	2.5	4	13.859	2.5	4	20.159	0.178	0.081
95	0.6	0.5	14.5	0.05	4.3	2.5	4	22.109	2.5	4	32.159	2.5	4	20.109	2.5	4	29.250	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.6	0.5	14.5	1	3.8	2.5	4	18.984	2.5	4	27.614	2.5	4	16.984	2.5	4	24.705	0.178	0.081
95	0.6	0.5	14.5	1.5	3.6	2.5	4	17.734	2.5	4	25.795	2.5	4	15.734	2.5	4	22.886	0.178	0.081
95	0.6	0.5	14.5	2	3.4	2.5	4	16.484	2.5	4	23.977	2.5	4	14.484	2.5	4	21.068	0.178	0.081
95	0.6	0.5	14.5	2.5	3.2	2.5	4	15.234	2.5	4	22.159	2.5	4	13.234	2.5	4	19.250	0.178	0.081
95	0.6	0.5	14.5	3	3	2.5	4	13.984	2.5	4	20.341	2.5	4	11.984	2.5	4	17.432	0.178	0.081
95	0.6	1	4.5	0.05	7.4	3	6	39.481	3	6	57.427	3	6	36.481	3	6	53.064	0.178	0.081
95	0.6	1	4.5	1	5.7	3	6	28.856	3	6	41.973	3	6	25.856	3	6	37.609	0.178	0.081
95	0.6	1	4.5	1.5	5.2	3	6	25.731	3	6	37.427	3	6	22.731	3	6	33.064	0.178	0.081
95	0.6	1	4.5	2	4.8	3	6	23.231	3	6	33.791	3	6	20.231	3	6	29.427	0.178	0.081
95	0.6	1	4.5	2.5	4.5	3	6	21.356	3	6	31.064	3	6	18.356	3	6	26.700	0.178	0.081
95	0.6	1	4.5	3	4.3	3	6	20.106	3	6	29.245	3	6	17.106	3	6	24.882	0.178	0.081
95	0.6	1	6	0.05	6.9	3	6	36.356	3	6	52.882	3	6	33.356	3	6	48.518	0.178	0.081
95	0.6	1	6	1	5.2	3	6	25.731	3	6	37.427	3	6	22.731	3	6	33.064	0.178	0.081
95	0.6	1	6	1.5	4.8	3	6	23.231	3	6	33.791	3	6	20.231	3	6	29.427	0.178	0.081
95	0.6	1	6	2	4.5	3	6	21.356	3	6	31.064	3	6	18.356	3	6	26.700	0.178	0.081
95	0.6	1	6	2.5	4.2	3	6	19.481	3	6	28.336	3	6	16.481	3	6	23.973	0.178	0.081
95	0.6	1	6	3	4	3	6	18.231	3	6	26.518	3	6	15.231	3	6	22.155	0.178	0.081
95	0.6	1	8.3	0.05	6.3	3	6	32.606	3	6	47.427	3	6	29.606	3	6	43.064	0.178	0.081
95	0.6	1	8.3	1	4.8	3	6	23.231	3	6	33.791	3	6	20.231	3	6	29.427	0.178	0.081
95	0.6	1	8.3	1.5	4.5	3	6	21.356	3	6	31.064	3	6	18.356	3	6	26.700	0.178	0.081
95	0.6	1	8.3	2	4.2	3	6	19.481	3	6	28.336	3	6	16.481	3	6	23.973	0.178	0.081
95	0.6	1	8.3	2.5	3.9	3	6	17.606	3	6	25.609	3	6	14.606	3	6	21.245	0.178	0.081
95	0.6	1	8.3	3	3.7	3	6	16.356	3	6	23.791	3	6	13.356	3	6	19.427	0.178	0.081
95	0.6	1	10.5	0.05	5.7	3	6	28.856	3	6	41.973	3	6	25.856	3	6	37.609	0.178	0.081
95	0.6	1	10.5	1	4.5	3	6	21.356	3	6	31.064	3	6	18.356	3	6	26.700	0.178	0.081
95	0.6	1	10.5	1.5	4.2	3	6	19.481	3	6	28.336	3	6	16.481	3	6	23.973	0.178	0.081
95	0.6	1	10.5	2	3.9	3	6	17.606	3	6	25.609	3	6	14.606	3	6	21.245	0.178	0.081
95	0.6	1	10.5	2.5	3.6	3	6	15.731	3	6	22.882	3	6	12.731	3	6	18.518	0.178	0.081
95	0.6	1	10.5	3	3.4	3	6	14.481	3	6	21.064	3	6	11.481	3	6	16.700	0.178	0.081
95	0.6	1	14.5	0.05	5.1	3	6	25.106	3	6	36.518	3	6	22.106	3	6	32.155	0.178	0.081
95	0.6	1	14.5	1	4.1	3	6	18.856	3	6	27.427	3	6	15.856	3	6	23.064	0.178	0.081
95	0.6	1	14.5	1.5	3.8	3	6	16.981	3	6	24.700	3	6	13.981	3	6	20.336	0.178	0.081
95	0.6	1	14.5	2	3.5	3	6	15.106	3	6	21.973	3	6	12.106	3	6	17.609	0.178	0.081
95	0.6	1	14.5	2.5	3.3	3	6	13.856	3	6	20.155	3	6	10.856	3	6	15.791	0.178	0.081
95	0.6	1	14.5	3	3.1	3	6	12.606	3	6	18.336	3	6	9.606	3	6	13.973	0.178	0.081
95	0.6	3	4.5	0.05	8.2	3.5	6	44.228	3.5	6	64.332	3.5	6	41.228	3.5	6	59.968	0.178	0.081
95	0.6	3	4.5	1	6.2	3.5	6	31.728	3.5	6	46.150	3.5	6	28.728	3.5	6	41.786	0.178	0.081
95	0.6	3	4.5	1.5	5.8	3.5	6	29.228	3.5	6	42.514	3.5	6	26.228	3.5	6	38.150	0.178	0.081
95	0.6	3	4.5	2	5.5	3.5	6	27.353	3.5	6	39.786	3.5	6	24.353	3.5	6	35.423	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.6	3	4.5	2.5	5.1	3.5	6	24.853	3.5	6	36.150	3.5	6	21.853	3.5	6	31.786	0.178	0.081
95	0.6	3	4.5	3	4.8	3.5	6	22.978	3.5	6	33.423	3.5	6	19.978	3.5	6	29.059	0.178	0.081
95	0.6	3	6	0.05	7.6	3.5	6	40.478	3.5	6	58.877	3.5	6	37.478	3.5	6	54.514	0.178	0.081
95	0.6	3	6	1	6	3.5	6	30.478	3.5	6	44.332	3.5	6	27.478	3.5	6	39.968	0.178	0.081
95	0.6	3	6	1.5	5.6	3.5	6	27.978	3.5	6	40.695	3.5	6	24.978	3.5	6	36.332	0.178	0.081
95	0.6	3	6	2	5.3	3.5	6	26.103	3.5	6	37.968	3.5	6	23.103	3.5	6	33.605	0.178	0.081
95	0.6	3	6	2.5	4.9	3.5	6	23.603	3.5	6	34.332	3.5	6	20.603	3.5	6	29.968	0.178	0.081
95	0.6	3	6	3	4.5	3.5	6	21.103	3.5	6	30.695	3.5	6	18.103	3.5	6	26.332	0.178	0.081
95	0.6	3	8.3	0.05	7	3.5	6	36.728	3.5	6	53.423	3.5	6	33.728	3.5	6	49.059	0.178	0.081
95	0.6	3	8.3	1	5.5	3.5	6	27.353	3.5	6	39.786	3.5	6	24.353	3.5	6	35.423	0.178	0.081
95	0.6	3	8.3	1.5	5.2	3.5	6	25.478	3.5	6	37.059	3.5	6	22.478	3.5	6	32.695	0.178	0.081
95	0.6	3	8.3	2	4.8	3.5	6	22.978	3.5	6	33.423	3.5	6	19.978	3.5	6	29.059	0.178	0.081
95	0.6	3	8.3	2.5	4.5	3.5	6	21.103	3.5	6	30.695	3.5	6	18.103	3.5	6	26.332	0.178	0.081
95	0.6	3	8.3	3	4.2	3.5	6	19.228	3.5	6	27.968	3.5	6	16.228	3.5	6	23.605	0.178	0.081
95	0.6	3	10.5	0.05	6.4	3.5	6	32.978	3.5	6	47.968	3.5	6	29.978	3.5	6	43.605	0.178	0.081
95	0.6	3	10.5	1	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.6	3	10.5	1.5	4.6	3.5	6	21.728	3.5	6	31.605	3.5	6	18.728	3.5	6	27.241	0.178	0.081
95	0.6	3	10.5	2	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.6	3	10.5	2.5	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.6	3	10.5	3	3.8	3.5	6	16.728	3.5	6	24.332	3.5	6	13.728	3.5	6	19.968	0.178	0.081
95	0.6	3	14.5	0.05	5.8	3.5	6	29.228	3.5	6	42.514	3.5	6	26.228	3.5	6	38.150	0.178	0.081
95	0.6	3	14.5	1	4.8	3.5	6	22.978	3.5	6	33.423	3.5	6	19.978	3.5	6	29.059	0.178	0.081
95	0.6	3	14.5	1.5	4.5	3.5	6	21.103	3.5	6	30.695	3.5	6	18.103	3.5	6	26.332	0.178	0.081
95	0.6	3	14.5	2	4.2	3.5	6	19.228	3.5	6	27.968	3.5	6	16.228	3.5	6	23.605	0.178	0.081
95	0.6	3	14.5	2.5	3.8	3.5	6	16.728	3.5	6	24.332	3.5	6	13.728	3.5	6	19.968	0.178	0.081
95	0.6	3	14.5	3	3.5	3.5	6	14.853	3.5	6	21.605	3.5	6	11.853	3.5	6	17.241	0.178	0.081
95	0.6	5	4.5	0.05	9	3.5	6	49.228	3.5	6	71.605	3.5	6	46.228	3.5	6	67.241	0.178	0.081
95	0.6	5	4.5	1	6.8	3.5	6	35.478	3.5	6	51.605	3.5	6	32.478	3.5	6	47.241	0.178	0.081
95	0.6	5	4.5	1.5	6.4	3.5	6	32.978	3.5	6	47.968	3.5	6	29.978	3.5	6	43.605	0.178	0.081
95	0.6	5	4.5	2	6	3.5	6	30.478	3.5	6	44.332	3.5	6	27.478	3.5	6	39.968	0.178	0.081
95	0.6	5	4.5	2.5	5.6	3.5	6	27.978	3.5	6	40.695	3.5	6	24.978	3.5	6	36.332	0.178	0.081
95	0.6	5	4.5	3	5.2	3.5	6	25.478	3.5	6	37.059	3.5	6	22.478	3.5	6	32.695	0.178	0.081
95	0.6	5	6	0.05	8.4	3.5	6	45.478	3.5	6	66.150	3.5	6	42.478	3.5	6	61.786	0.178	0.081
95	0.6	5	6	1	6.5	3.5	6	33.603	3.5	6	48.877	3.5	6	30.603	3.5	6	44.514	0.178	0.081
95	0.6	5	6	1.5	6.1	3.5	6	31.103	3.5	6	45.241	3.5	6	28.103	3.5	6	40.877	0.178	0.081
95	0.6	5	6	2	5.7	3.5	6	28.603	3.5	6	41.605	3.5	6	25.603	3.5	6	37.241	0.178	0.081
95	0.6	5	6	2.5	5.3	3.5	6	26.103	3.5	6	37.968	3.5	6	23.103	3.5	6	33.605	0.178	0.081
95	0.6	5	6	3	4.9	3.5	6	23.603	3.5	6	34.332	3.5	6	20.603	3.5	6	29.968	0.178	0.081
95	0.6	5	8.3	0.05	7.7	3.5	6	41.103	3.5	6	59.786	3.5	6	38.103	3.5	6	55.423	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.6	5	8.3	1	6.2	3.5	6	31.728	3.5	6	46.150	3.5	6	28.728	3.5	6	41.786	0.178	0.081
95	0.6	5	8.3	1.5	5.8	3.5	6	29.228	3.5	6	42.514	3.5	6	26.228	3.5	6	38.150	0.178	0.081
95	0.6	5	8.3	2	5.4	3.5	6	26.728	3.5	6	38.877	3.5	6	23.728	3.5	6	34.514	0.178	0.081
95	0.6	5	8.3	2.5	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.6	5	8.3	3	4.6	3.5	6	21.728	3.5	6	31.605	3.5	6	18.728	3.5	6	27.241	0.178	0.081
95	0.6	5	10.5	0.05	7.1	3.5	6	37.353	3.5	6	54.332	3.5	6	34.353	3.5	6	49.968	0.178	0.081
95	0.6	5	10.5	1	5.8	3.5	6	29.228	3.5	6	42.514	3.5	6	26.228	3.5	6	38.150	0.178	0.081
95	0.6	5	10.5	1.5	5.4	3.5	6	26.728	3.5	6	38.877	3.5	6	23.728	3.5	6	34.514	0.178	0.081
95	0.6	5	10.5	2	5	3.5	6	24.228	3.5	6	35.241	3.5	6	21.228	3.5	6	30.877	0.178	0.081
95	0.6	5	10.5	2.5	4.7	3.5	6	22.353	3.5	6	32.514	3.5	6	19.353	3.5	6	28.150	0.178	0.081
95	0.6	5	10.5	3	4.3	3.5	6	19.853	3.5	6	28.877	3.5	6	16.853	3.5	6	24.514	0.178	0.081
95	0.6	5	14.5	0.05	6.5	3.5	6	33.603	3.5	6	48.877	3.5	6	30.603	3.5	6	44.514	0.178	0.081
95	0.6	5	14.5	1	5.7	3.5	6	28.603	3.5	6	41.605	3.5	6	25.603	3.5	6	37.241	0.178	0.081
95	0.6	5	14.5	1.5	5.2	3.5	6	25.478	3.5	6	37.059	3.5	6	22.478	3.5	6	32.695	0.178	0.081
95	0.6	5	14.5	2	4.8	3.5	6	22.978	3.5	6	33.423	3.5	6	19.978	3.5	6	29.059	0.178	0.081
95	0.6	5	14.5	2.5	4.4	3.5	6	20.478	3.5	6	29.786	3.5	6	17.478	3.5	6	25.423	0.178	0.081
95	0.6	5	14.5	3	4	3.5	6	17.978	3.5	6	26.150	3.5	6	14.978	3.5	6	21.786	0.178	0.081
95	0.6	10	4.5	0.05	9.8	4	6	53.975	4	6	78.509	4	6	50.975	4	6	74.145	0.178	0.081
95	0.6	10	4.5	1	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.6	10	4.5	1.5	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.6	10	4.5	2	6.6	4	6	33.975	4	6	49.418	4	6	30.975	4	6	45.055	0.178	0.081
95	0.6	10	4.5	2.5	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.6	10	4.5	3	5.8	4	6	28.975	4	6	42.145	4	6	25.975	4	6	37.782	0.178	0.081
95	0.6	10	6	0.05	9.3	4	6	50.850	4	6	73.964	4	6	47.850	4	6	69.600	0.178	0.081
95	0.6	10	6	1	7.2	4	6	37.725	4	6	54.873	4	6	34.725	4	6	50.509	0.178	0.081
95	0.6	10	6	1.5	6.7	4	6	34.600	4	6	50.327	4	6	31.600	4	6	45.964	0.178	0.081
95	0.6	10	6	2	6.3	4	6	32.100	4	6	46.691	4	6	29.100	4	6	42.327	0.178	0.081
95	0.6	10	6	2.5	5.9	4	6	29.600	4	6	43.055	4	6	26.600	4	6	38.691	0.178	0.081
95	0.6	10	6	3	5.5	4	6	27.100	4	6	39.418	4	6	24.100	4	6	35.055	0.178	0.081
95	0.6	10	8.3	0.05	8.7	4	6	47.100	4	6	68.509	4	6	44.100	4	6	64.145	0.178	0.081
95	0.6	10	8.3	1	6.8	4	6	35.225	4	6	51.236	4	6	32.225	4	6	46.873	0.178	0.081
95	0.6	10	8.3	1.5	6.4	4	6	32.725	4	6	47.600	4	6	29.725	4	6	43.236	0.178	0.081
95	0.6	10	8.3	2	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.6	10	8.3	2.5	5.6	4	6	27.725	4	6	40.327	4	6	24.725	4	6	35.964	0.178	0.081
95	0.6	10	8.3	3	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.6	10	10.5	0.05	8.1	4	6	43.350	4	6	63.055	4	6	40.350	4	6	58.691	0.178	0.081
95	0.6	10	10.5	1	6.4	4	6	32.725	4	6	47.600	4	6	29.725	4	6	43.236	0.178	0.081
95	0.6	10	10.5	1.5	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.6	10	10.5	2	5.6	4	6	27.725	4	6	40.327	4	6	24.725	4	6	35.964	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.6	10	10.5	2.5	5.2	4	6	25.225	4	6	36.691	4	6	22.225	4	6	32.327	0.178	0.081
95	0.6	10	10.5	3	4.8	4	6	22.725	4	6	33.055	4	6	19.725	4	6	28.691	0.178	0.081
95	0.6	10	14.5	0.05	7.6	4	6	40.225	4	6	58.509	4	6	37.225	4	6	54.145	0.178	0.081
95	0.6	10	14.5	1	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.6	10	14.5	1.5	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.6	10	14.5	2	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081
95	0.6	10	14.5	2.5	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.6	10	14.5	3	4.5	4	6	20.850	4	6	30.327	4	6	17.850	4	6	25.964	0.178	0.081
95	0.6	30	4.5	0.05	10.4	4	6	57.725	4	6	83.964	4	6	54.725	4	6	79.600	0.178	0.081
95	0.6	30	4.5	1	8.2	4	6	43.975	4	6	63.964	4	6	40.975	4	6	59.600	0.178	0.081
95	0.6	30	4.5	1.5	7.8	4	6	41.475	4	6	60.327	4	6	38.475	4	6	55.964	0.178	0.081
95	0.6	30	4.5	2	7.4	4	6	38.975	4	6	56.691	4	6	35.975	4	6	52.327	0.178	0.081
95	0.6	30	4.5	2.5	7	4	6	36.475	4	6	53.055	4	6	33.475	4	6	48.691	0.178	0.081
95	0.6	30	4.5	3	6.4	4	6	32.725	4	6	47.600	4	6	29.725	4	6	43.236	0.178	0.081
95	0.6	30	6	0.05	10	4	6	55.225	4	6	80.327	4	6	52.225	4	6	75.964	0.178	0.081
95	0.6	30	6	1	7.6	4	6	40.225	4	6	58.509	4	6	37.225	4	6	54.145	0.178	0.081
95	0.6	30	6	1.5	7.2	4	6	37.725	4	6	54.873	4	6	34.725	4	6	50.509	0.178	0.081
95	0.6	30	6	2	6.8	4	6	35.225	4	6	51.236	4	6	32.225	4	6	46.873	0.178	0.081
95	0.6	30	6	2.5	6.4	4	6	32.725	4	6	47.600	4	6	29.725	4	6	43.236	0.178	0.081
95	0.6	30	6	3	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.6	30	8.3	0.05	9.6	4	6	52.725	4	6	76.691	4	6	49.725	4	6	72.327	0.178	0.081
95	0.6	30	8.3	1	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.6	30	8.3	1.5	6.9	4	6	35.850	4	6	52.145	4	6	32.850	4	6	47.782	0.178	0.081
95	0.6	30	8.3	2	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.6	30	8.3	2.5	6	4	6	30.225	4	6	43.964	4	6	27.225	4	6	39.600	0.178	0.081
95	0.6	30	8.3	3	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.6	30	10.5	0.05	9.1	4	6	49.600	4	6	72.145	4	6	46.600	4	6	67.782	0.178	0.081
95	0.6	30	10.5	1	6.9	4	6	35.850	4	6	52.145	4	6	32.850	4	6	47.782	0.178	0.081
95	0.6	30	10.5	1.5	6.5	4	6	33.350	4	6	48.509	4	6	30.350	4	6	44.145	0.178	0.081
95	0.6	30	10.5	2	6.1	4	6	30.850	4	6	44.873	4	6	27.850	4	6	40.509	0.178	0.081
95	0.6	30	10.5	2.5	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.6	30	10.5	3	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081
95	0.6	30	14.5	0.05	8.7	4	6	47.100	4	6	68.509	4	6	44.100	4	6	64.145	0.178	0.081
95	0.6	30	14.5	1	6.6	4	6	33.975	4	6	49.418	4	6	30.975	4	6	45.055	0.178	0.081
95	0.6	30	14.5	1.5	6.1	4	6	30.850	4	6	44.873	4	6	27.850	4	6	40.509	0.178	0.081
95	0.6	30	14.5	2	5.7	4	6	28.350	4	6	41.236	4	6	25.350	4	6	36.873	0.178	0.081
95	0.6	30	14.5	2.5	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081
95	0.6	30	14.5	3	4.9	4	6	23.350	4	6	33.964	4	6	20.350	4	6	29.600	0.178	0.081
95	0.6	50	4.5	0.05	11	4	6	61.475	4	6	89.418	4	6	58.475	4	6	85.055	0.178	0.081

I-95% Reliability - Base 0.44						DESIGN 5			DESIGN 6			DESIGN 7			DESIGN 8			Asphalt Concrete corrected strength coefficient (AAPT)	Recycled Mix corrected strength coefficient (AAPT)
1	2	3	4	5	6	19	20	21	22	23	24	25	26	27	28	29	30		
RELIABILITY	std .div	traffic	MR	Delta PSI	SN-.44*	d51	d52	d53(Tsb)	d61	d62	d63(Tsb)	d71	d72	d73(Tsb)	d81	d82	d83(Tsb)		
95	0.6	50	4.5	1	8.7	4	6	47.100	4	6	68.509	4	6	44.100	4	6	64.145	0.178	0.081
95	0.6	50	4.5	1.5	8.3	4	6	44.600	4	6	64.873	4	6	41.600	4	6	60.509	0.178	0.081
95	0.6	50	4.5	2	7.9	4	6	42.100	4	6	61.236	4	6	39.100	4	6	56.873	0.178	0.081
95	0.6	50	4.5	2.5	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.6	50	4.5	3	7.1	4	6	37.100	4	6	53.964	4	6	34.100	4	6	49.600	0.178	0.081
95	0.6	50	6	0.05	10.7	4	6	59.600	4	6	86.691	4	6	56.600	4	6	82.327	0.178	0.081
95	0.6	50	6	1	8.5	4	6	45.850	4	6	66.691	4	6	42.850	4	6	62.327	0.178	0.081
95	0.6	50	6	1.5	8	4	6	42.725	4	6	62.145	4	6	39.725	4	6	57.782	0.178	0.081
95	0.6	50	6	2	7.5	4	6	39.600	4	6	57.600	4	6	36.600	4	6	53.236	0.178	0.081
95	0.6	50	6	2.5	7.1	4	6	37.100	4	6	53.964	4	6	34.100	4	6	49.600	0.178	0.081
95	0.6	50	6	3	6.7	4	6	34.600	4	6	50.327	4	6	31.600	4	6	45.964	0.178	0.081
95	0.6	50	8.3	0.05	10.4	4	6	57.725	4	6	83.964	4	6	54.725	4	6	79.600	0.178	0.081
95	0.6	50	8.3	1	8.3	4	6	44.600	4	6	64.873	4	6	41.600	4	6	60.509	0.178	0.081
95	0.6	50	8.3	1.5	7.6	4	6	40.225	4	6	58.509	4	6	37.225	4	6	54.145	0.178	0.081
95	0.6	50	8.3	2	7.2	4	6	37.725	4	6	54.873	4	6	34.725	4	6	50.509	0.178	0.081
95	0.6	50	8.3	2.5	6.6	4	6	33.975	4	6	49.418	4	6	30.975	4	6	45.055	0.178	0.081
95	0.6	50	8.3	3	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.6	50	10.5	0.05	10.1	4	6	55.850	4	6	81.236	4	6	52.850	4	6	76.873	0.178	0.081
95	0.6	50	10.5	1	7.7	4	6	40.850	4	6	59.418	4	6	37.850	4	6	55.055	0.178	0.081
95	0.6	50	10.5	1.5	7.2	4	6	37.725	4	6	54.873	4	6	34.725	4	6	50.509	0.178	0.081
95	0.6	50	10.5	2	6.6	4	6	33.975	4	6	49.418	4	6	30.975	4	6	45.055	0.178	0.081
95	0.6	50	10.5	2.5	6.2	4	6	31.475	4	6	45.782	4	6	28.475	4	6	41.418	0.178	0.081
95	0.6	50	10.5	3	5.8	4	6	28.975	4	6	42.145	4	6	25.975	4	6	37.782	0.178	0.081
95	0.6	50	14.5	0.05	9.8	4	6	53.975	4	6	78.509	4	6	50.975	4	6	74.145	0.178	0.081
95	0.6	50	14.5	1	7.3	4	6	38.350	4	6	55.782	4	6	35.350	4	6	51.418	0.178	0.081
95	0.6	50	14.5	1.5	6.8	4	6	35.225	4	6	51.236	4	6	32.225	4	6	46.873	0.178	0.081
95	0.6	50	14.5	2	6.3	4	6	32.100	4	6	46.691	4	6	29.100	4	6	42.327	0.178	0.081
95	0.6	50	14.5	2.5	5.8	4	6	28.975	4	6	42.145	4	6	25.975	4	6	37.782	0.178	0.081
95	0.6	50	14.5	3	5.3	4	6	25.850	4	6	37.600	4	6	22.850	4	6	33.236	0.178	0.081

APPENDIX B

LIST OF CITIES

List of cities in Pennsylvania by population:

1. Philadelphia
2. Allentown
3. Reading
4. Upper Darby
5. Bethlehem
6. Bensalem
7. Lancaster
8. Lower Merion
9. Abington
10. Bristol
11. Millcreek
12. University City, Philadelphia
13. Haverford
14. Northampton township
15. Trenton
16. Eddington
17. Levittown
18. Croydon
19. Eddy stone
20. Wilmington