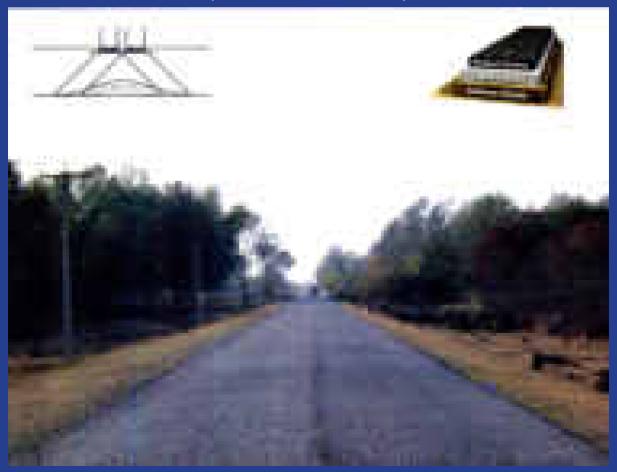


Government of Nepal Ministry of Physical Infrastructure and Transport Departments of Roads Babarmahal, Kathmandu

Pavement Design Guidelines (Flexible Pavement)



2014, Kathmandu

Planing and Design BranchDepartment of Roads

Department of Roads Babarmahal, Kathmandu Telephone: 977-01-4262981



Government of Nepal Ministry of Physical Insfrastructure and Transport **Department of Roads** Babarmahal, Kathmandu

Pavement Design Guidlines (Flexible Pavement)

2014, Kathmandu

Published by Empartment of Buruh, Financing and Design Streech, Baltan Mahananah.

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Message from Director General



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Abbreviation

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ANGELETA Description Association of Visco Highway and Transportation Officials

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mer Reprintment Manager Andrew

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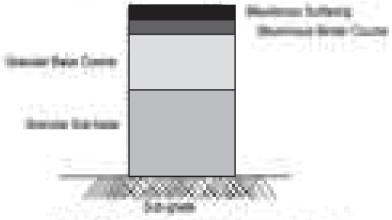
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8. Typical Section of Paymonts Layer

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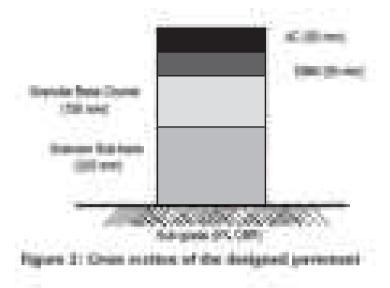
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10. Glassory of Percennent Terms

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Street Jones

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The rate-lines require in Setyment (to Steen course and the unit grade, in Sentence printerly as interested apppoint but it can also so moreover that provides of Sente Steen Steen that unit grade Steen Sentenced parameter that provides to improve distinger, to retaining free action distraction, in provides to working printless. For construction

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Such creat is applied on intertredy impervenes layer feet example existing biderprises of county transfers personner or a personne layer feet the tree weeks for price case.

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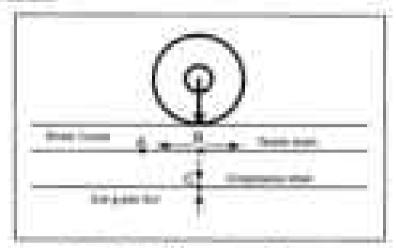
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- Guidelines for the design of frontile possesses. Second edition. Inches Road Gregories. 2001.
- Strendard Spreithurmen for Board and Bellige Writte, Unit, Department of Branch, Ada, 2003
- A Guade to the Structural slongs of bitestations multicel youls in trapical and subsympton countries. Documen Board Stone Th. Transport Superacti Laboratory 17943, 1988.
- A parents no acts then there and really country for determining matter bracking on promision. Overland Real State 49. Transport through Subscience (1981).
- 6 WAYKMEN'S SALIACAS MARKSOM, Supplement to Part 3: Personnel Structural Sength, of the Assemble South to Develope Submitting Quarterinal Engineering of Main Blanks Physicsecus B. Marcellate, Structure, Supplement
- Personner Stronge Guick: For Louis and Guliketur Anadi, Small Department, Read Promising Section, Guider 1998
- F : Addition Guide by the Design of parentees sentences, 1993.
- GOVERNMENT OF DIDER, Green's Public Works Department, CPWD Specificariosa Molecula, 2000
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- Huddelbast for fire reliable social Roads, building Africas Swinkepower. Georgeoidy (SASC), SASC (burn, Private Bay 0005, Georgia, BOTTOMONA, 2003
- Diameteral Specificacione des Privat una Patrige Marin, DPUSAGRES DECTECRE NOS, 6480-1743 NAS-ATES, ASPECTA DE DECTES DES AGOS NASAS DECTES DE TRAIS Revision), Ministry of Secol Transport and Nightween, hadin, 2000.
- 14 Design Housed for See volume maked road Molecel, Mindery of Transport and Petros Works, 2011
- Guiddines for Staffs Prediction on Rarel Highways; RC 1996

Armes 1: Fulture Orienta

FERNA CITED IS, reformably between qualities of installative materiard abbs, strong release and charte motion of materials.

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Papers It Owned Locations on Fernance

A read it age that critical forcession for remains into the critical (e.g.). This is because on a short for smalle strain is selepted for dangers (E_g). It is the critical location for the vertical safe goods began (E_g) where the munitimests relies of the E_g, vercory months at point C.

Discourses reflecting of prevenues displace fleatural beinges creating if the traction which as the become of the limitations been is beyond revenue into . The relation between the fangue life of the personnel and the remain street in the bosons of the Minimizen byer can be obtained:

When, by in the injustice of summission mutabald, asses to privilent SII premissage copied surback some (4a) is the mouth much at the bettern of the lateratum concern later. It is the Electric modulus of himselsoms and own.

The values of the objects product of Apphale Commen (AC), Texas Riverspanis Manadam (1998), and Spicerspanis Abandam (1997) morning the requirements of the Standard specifications of State are given below.

Station in Education Minute-Street, EMPAC and Representations of Assessment Control of the Contr

Miy Tyma	Temperature, 0C					
Mix Type	20	25	30	35	40	
AC and DBM 80:100 Revenue	23(0)	1996	3488	979	797	
AC and DAM No 79 Bissayo	368	3126	2079	1.045	1279	
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914 30:106 Rossey	-		100	yes:	-	
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The above fargue regulation was californial at 20°C. For brownesses common coefficient funding RO-100 hitsament and the requestion was granted and by terresholding the term constraining the classes mustaken (E) of the literature in layer so that prevenue can be deadgreed for temperatures from 20°C, so 100°C money and grant of bitumens.

The Subsects spin of International Paper may be taken as 8.5 for parameter temperature at 50°C and 40°C. For resuperature from 30°C is 30°C, a value of 6.30 may be adopted. Respectively equation as stop parameters interpretative from 20°C in 40°C into be instituted by sylventering the electric modulate of parameter temperature. Catalogue of things has been worked for emperature of 30°C.

het Routebook verbenebe.

The receipt contents an executioned to 160, 27 (2001 is the planette per deprit at 10 mm, No revine agentine was obsessed as:

Hithers. No in the wateries of conscious establish sales to produce seeing of 28 mm to the recent of sale grown.

e) Machalus of Electricity of Sub-grade, Sub-Suse and Sass Supers

Salt-grade 8 = 30*138 to CBB c5

8 = 176*(CME)⁽¹⁻⁶⁴⁾ he CME > 3.

Distractor Bath-hose B1 = 0111 E111 E111

When, by is the emispoine figure: Madains of greenine relations and from (MFq): \$4.6 Election Mediates of Integrade (MFs), it to the finite on of pressuler insers (man), Printer's verte. for both the greeniles became as well as sub-green input into the patern on it. 6.

Calculation of equivalent modulus of discrete.

The their Expressed represented processes streams, exprinciples smallesture of absolute cups for Stream setting responsible refusionalisms.

$$\begin{bmatrix} 1/22 - 1/2 + \frac{1}{2} \Omega - \frac{3}{2} X_1 + X_2 + \frac{1}{2} X_2 \\ - 1/2 + \frac{3}{2} Z_1 + 2 Z_2 + 2 Z_2 + \frac{1}{2} Z_2 +$$

Williams.

F1: Making of chemical of signs been

12 - Middate of Hamilton of Least laser

t - Thickness of agrees fayer

 Dependent of thicklike ages, let contain the second parametering wheel limits to the parameter.

\$50° 10° \$1/40° or a separatory increases of inspectals of lower laws with his

er Substitution of Treese Hitueritains Missailles (1988):

Pairs of DMM case by authorizated for SMI on the Swale of regard financial edificate gives sec

Where, E.L. Wo. 14.7 and E.L. PER, 142 are the parentnines (Bluetic multitus, Thickness and Pointnine ratio) of 120th and 20th respectively. Second on the above agencies, believing musiculess thickness may be pand.

Colorovalue Suctions for the Shithman of previously layers (Le diffrate) constituent successful raid to dispert to service of modulus of fluorisms. Colorademy the squal raids of the Property raids raids (at both the both the beyon, the equivalent (blobs-or [24]) of layer 2 is equal to:



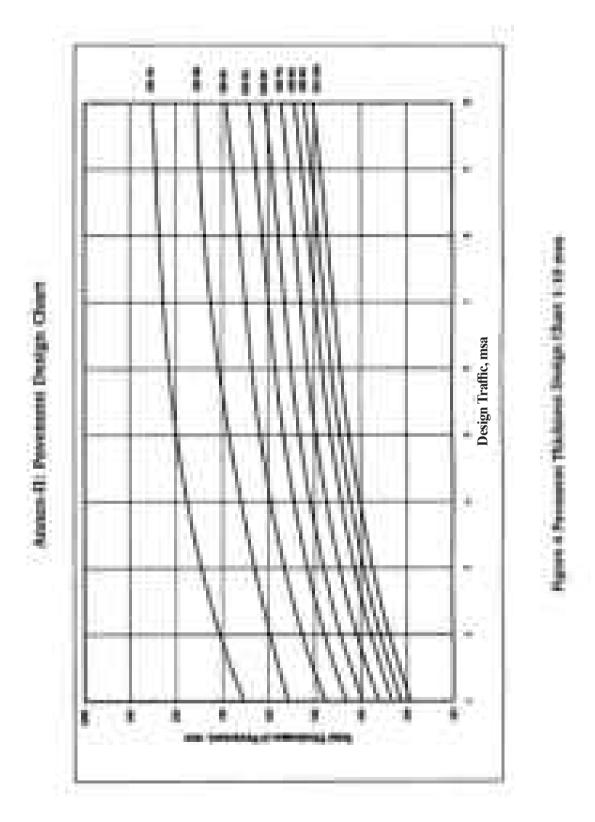
Where: H₂ is the Strineses of layer 3 : B₁ and B₂ are Multidus of elements of ispern.

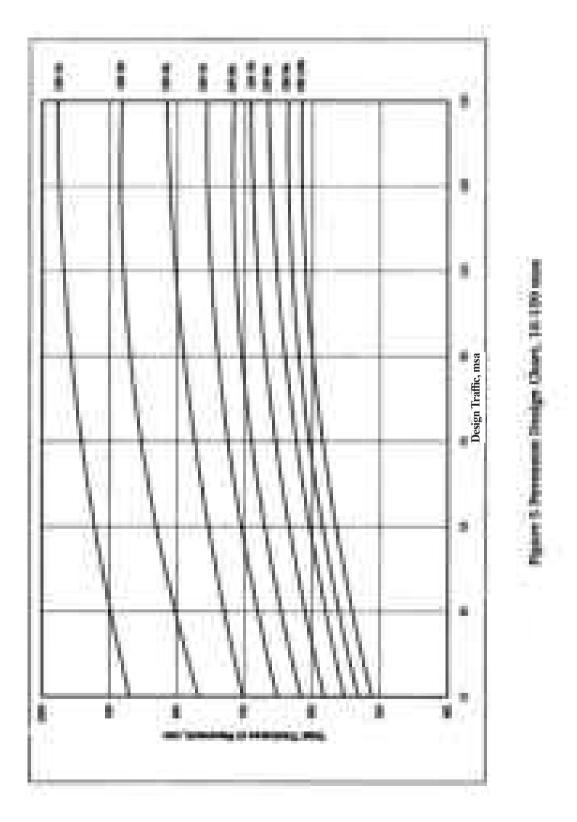
Enemphos

The value of epoticing of electrons of Decor Strongmout Stack-law (DSM) and Strongwood Miscalton (DM) see 1979 and 705 MPs respectively.

The marketer of 160 age 2000 rain be agin time 150 me 2000 o 76 me 886.

The DI man distance of DBM can be converted from 75 inch of 8M using whose schemosky.

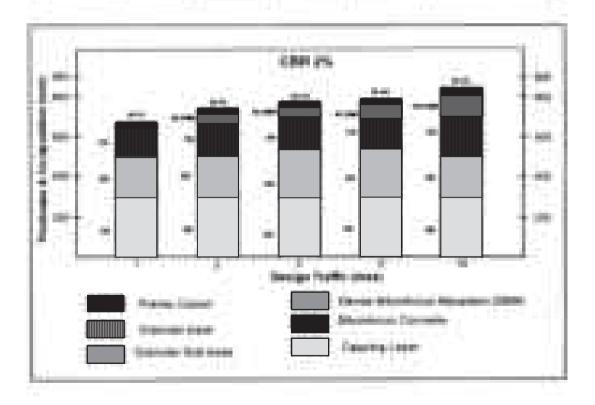




Auster III: Pavement Design Catalogies

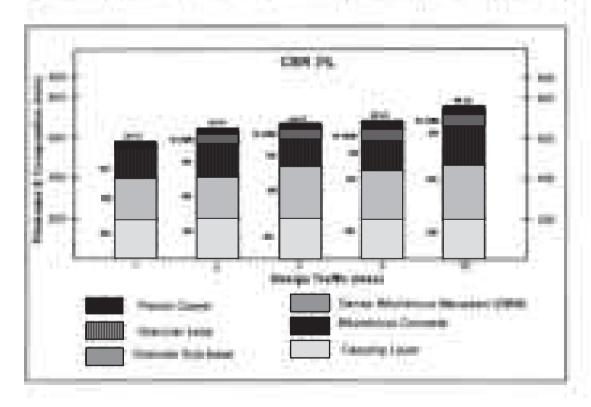
Provinces Setting Catalogue Flats 1 - Reconnected de Design for Touffy Barge 1 - 10 mas

CBR 2%									
		Pavement Composition							
Cumulative	Total Pavement	Bituminous	Surfacing		C	Canning			
Traffic, msa	Thickness, mm	Wearing Course, mm	Binder Course, mm	Granular Base, mm	Granular Sub-base, mm	Capping, Layer, mm			
17.4	100	排榜:		150	200	566			
	719	BE	30.080	966	206	569			
. 1	794	SERI:	SUDSM	100	190	001			
1	296	10.60	311 11904	198	246	294			
100	. 860	HAC	110 1944	200	269	281			



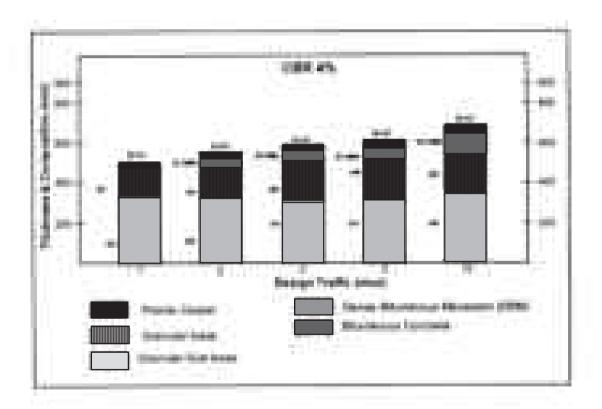
Processent Design Catalogue Phase 1 - Bassenmanaded Unidge for Traffic Sunge 1 - 10 mas

CBR 3%								
Pavement Composition								
Cumulative	Total Pavement	Bituminous	Surfacing		C 1	Capping, Layer, mm		
Traffic, msa	Thickness, mm	Wearing Course, mm	Binder Course, mm	Granular Base, mm	Granular Sub-base, mm			
1.0	840	38 (40	Torend	100	200	300		
. 2	110	20.70	20.0011	100	200	200		
1.0	646	2015	59.0864	130	149	290		
	400	36.60	14.0664	196	340	399		
3.10	766	10.60	MIDM	281	200	.200		



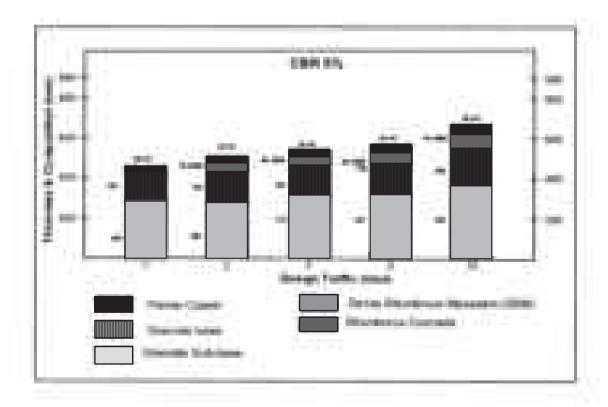
Parennest Design Catalogue Plant I - Burnsumended Design for Truffle Bunge 1 - 10 una

CBR 4%							
	Total		Pavement Co	omposition			
Cumulative Traffic,	Pavement	Bituminous	Surfacing				
msa	Thickness, mm	Wearing Course, mm	Binder Course, mm	Granular Base, mm	Granular Sub- base, mm		
100	475	36.90	1	TW	120		
1.4	626	26.9%	SHOW	190	134		
14	940	20/90	DO DRM	300	300		
1.1	500	18.60	No beau	200	200		
.10	499	36.9C	1010004	230	545		



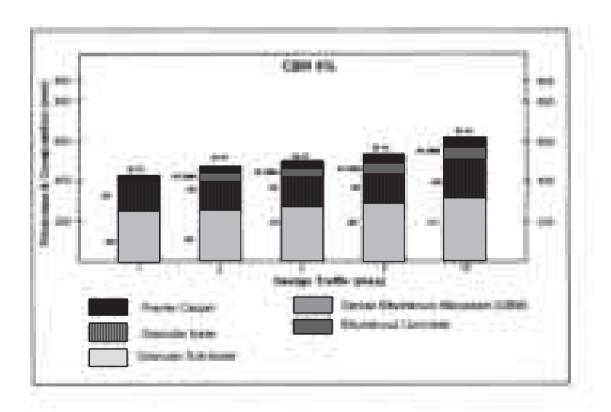
Processes Design Catalogue Plate I - Bonnessended (motion for Traffic Range 1 - 10 mas

CBR 5%								
	Total		Pavement Co	omposition				
Cumulative	Pavement	Bituminous	Surfacing					
Traffic, msa	Thickness, mm	Wearing Course, mm	Binder Course, mm	Granular Base, mm	Granular Sub- base, mm			
11-14	436	30.00		138	188			
1.4	Alka	20 PC	50 trans	LIM:	289			
	596	38.90	00 URM	394	310			
1.58	580	90.AC	20 0484	150	750			
- 84	460	ROAC	Sty Chebal	8.66	586			



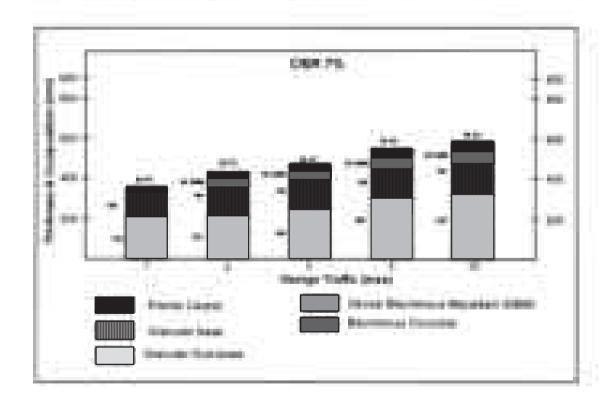
Personnel Design Catalogue Place 1 - Resonancestaded Design for Traffic Anager 1 - 10 man

CBR 6%								
	Total		Pavement Co	omposition				
Cumulative Traffic,	Pavement	Bituminous	Surfacing	Caralan	G L . G . L			
msa	Thickness, mm	Wearing Course, mm	Binder Course, mm	Granular Base, mm	Granular Sub- base, mm			
	600	TH AC	Carlina-	210	256			
. 2	490	30 FC	. PO DOM	230	290			
12	4/5	20.90	30 DBM	110	275			
	390	30 AC	30 ERM	3.50	280			
	709	93.AC	50 SMM	200	- Itsel			



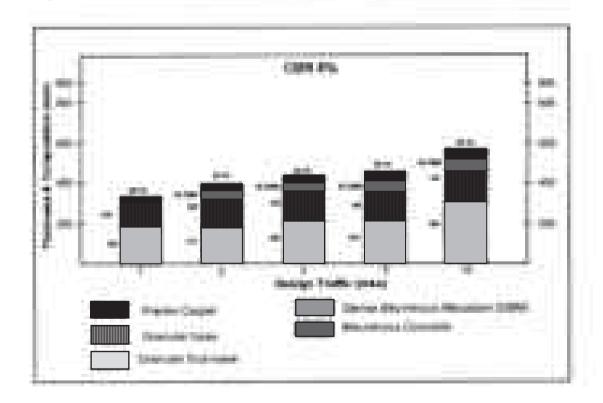
Powerest Design Catalogue Plant 1 - Reseasemental Design for Yorkin Funge 1 - 10 saus

CBR 7%							
	Total		Pavement Co	omposition			
Cumulative Traffic,	Pavement	Bituminous	Surfacing				
msa msa	Thickness, mm	Wearing Course, mm	Binder Course, mm	Granular Base, mm	Granular Sub- base, mm		
1522A 1	100	IN PC		190	1017		
	418	38 PC -	36 000	190	1197		
	+00	DO PE	201006	.100	200		
1.0	3.00	18 AZ	16 1894	100	300		
.16	176	58 AC	30.1894	186	303		



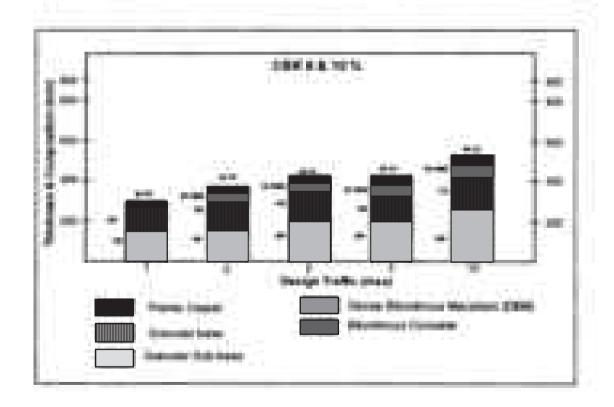
Paretteen Design Country on Paret 1 - Recommended Design for Treffix Range 1 - 10 ones

	CBR 8%						
	Total		Pavement Co	Pavement Composition			
Cumulative Traffic,	Pavement	Bituminous	Surfacing		Clan Ck		
msa	1 I nickness.	Wearing Course, mm	Binder Course, mm	Granular Base, mm	Granular Sub- base, mm		
7.7	340	38.90	L market E	199	100		
	319	18.40	10.084	296	H/h		
	409	316	10.0844	330	.500		
- 4-	460	36.40	34 SWA	330	220		
10	lite	38.80	he sem	130	300		



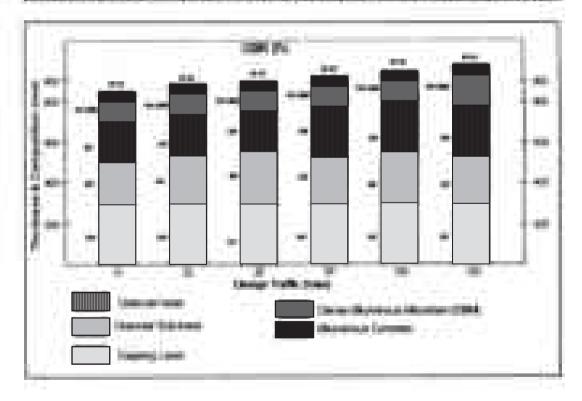
Place 1 - Processore ded Design for YouTis Surge 1 - 22 case

	CBR 9&10%						
	Total		Pavement Co	Pavement Composition			
Cumulative Traffic,	Pavement	Bituminous	Surfacing	C	Carranalan Sark		
msa T	Thickness, mm	Wearing Course, mm	Binder Course, mm	Granular Base, mm	Granular Sub- base, mm		
1.5	3.9	20 DC		130	1.00		
1.0	316	an hc	THE DRIVE	136	3,04		
	***	\$80.000	HI CHIM	196	380		
1	4le	SAAC	HI TRIM	1463	300		
III III	340	38.88	30.1894	181	266		



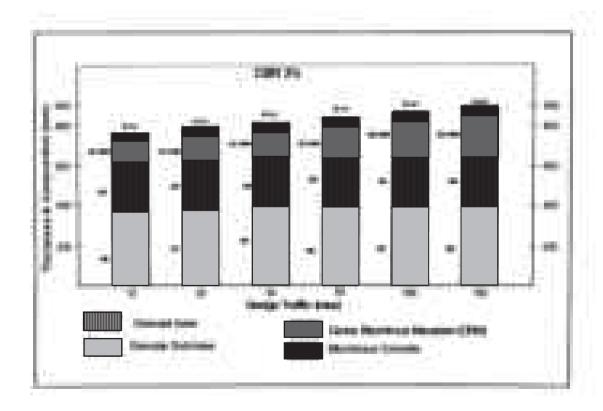
Floresment Designs Catalogue Plate II - Recommended Design for Truffic Range 10 - 101 man

	CBR 2%							
	Total		Paven	nent Compos	ent Composition			
Cumulative Traffic,	Pavement	Bituminous	Surfacing	Granular	Granular	Capping		
msa	Thickness, mm	Asphalt Concrete	Asphalt DRM		Sub-base, mm	Layer, mm		
3.0	100	30	100	289	389	300		
10	100	30	100	396	330	300		
- 10	800	30	100	386	310-	1000		
- 10	100	80	100	200	100	100		
900	994	30	100	280	310	300		
199	. 475	10	196	298	310	100.		



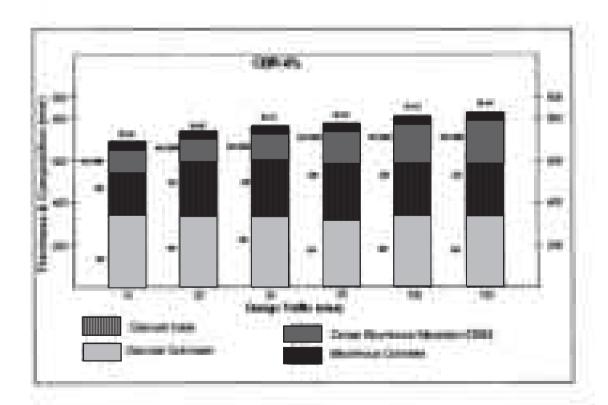
Forement Dongs Catalogue Flats II - Successmoded Design for Truffic Range 10 - 100 save

CBR 3%						
	Total		Pavement (Composition		
Cumulative Traffic,	Pavement	Bituminous	Surfacing			
msa	Thickness, mm	Asphalt Concrete	D B M	Granular Base, mm	Granular Sub- base, mm	
-0.0	798	- 86	198	394		
26	Pet		130	310	100	
- 20	533	80	136	309	396	
39	800	50	190	204	100	
199	- 100	80	100	314	386	
1331	1966	Bill .	360	310	300	



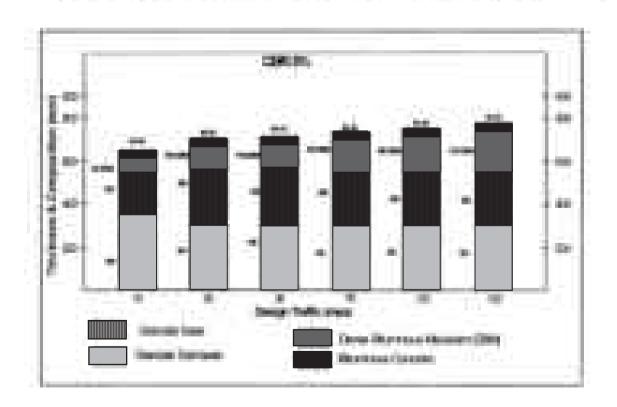
Percenter Design Catalogue Plate II - Recommended Design for Truffic Range 10 - 110 mas.

CBR 4%							
	Total _		Pavement (Composition			
Cumulative Traffic,	Pavement	Bituminous	Surfacing				
msa	Thickness, mm	Asphalt Concrete	D B M	Granular Base, mm	Granular Sub- base, mm		
- 14	100	340	100	390	346		
38	736	.59	100	100	100		
34	790	- 10	1.00	.00	106		
. 10	791	- 10	140	216	100		
300	100	701	179	218	100		
110	11.000	100	190	250	300		



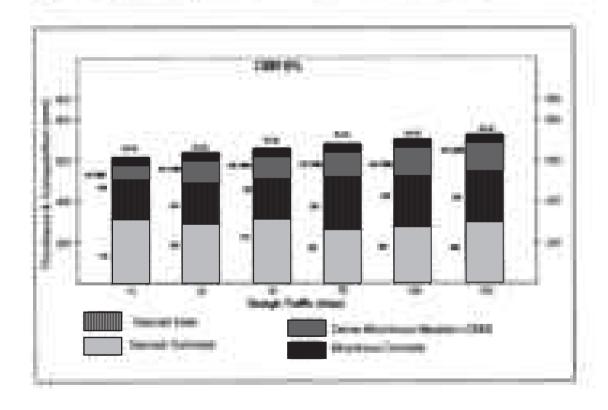
Peterson Dealgn Catalogue Plane II - Businessenhol Deepgn for Tredic Bange 10 - 150 man

	CBR 5%					
	Total	Pavement Composition				
Cumulative Traffic,	Pavement	Bituminous	Surfacing		G I G . I	
msa msa	Thickness, mm	Asphalt Concrete	D B M	Granular Base, mm	Granular Sub- base, mm	
17.79	160	160	50	300	346	
36	700	90	Imi	286	300	
30	716	10	198	214	306	
- 90	738		1.01	356	980	
500	250	.50	150	.036	300	
	270	160	179	374	300	



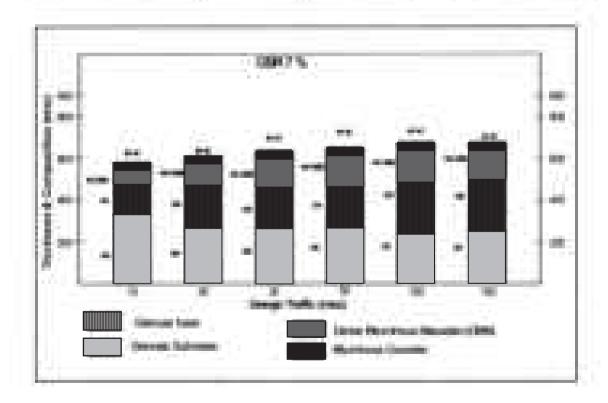
... Prevenuest Deeign Catalogue. Plate II - Reconnecteded Deeign for Traffic Sunge 16 - 100 max.

	CBR 6%						
	Total		Pavement (Composition			
Cumulative Traffic,	Pavement	Bituminou	s Surfacing				
msa	Thickness, mm	Asphalt Concrete	D B M	Granular Base, mm	Granular Sub- base, mm		
39	448	1000	96	246	800		
20	940	. 94	100	200	290		
30	600	.01	281	200	300		
30	199	31	7.10	100	265		
300	736		139	299	200		
Dist	796	101	. 198	290	280		



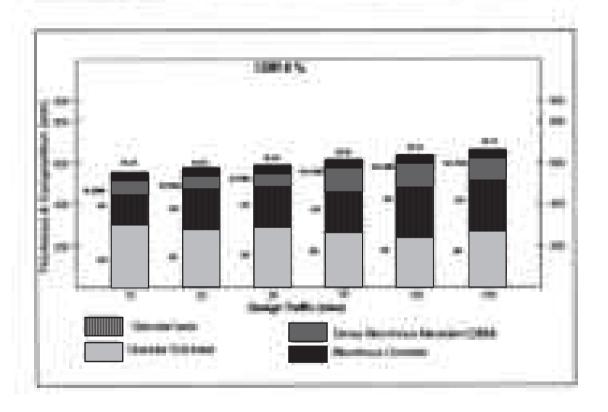
Percount Design Catalogue Place II - Recommended Design for Truffix Range 29 - 130 was

	CBR 7%						
	Total	Pavement Composition					
Cumulative Traffic,	Pavement	Bituminous	Surfacing		C. L. C.		
msa	Thickness, mm	Asphalt Concrete	D B M	Granular Base, mm	Granular Sub- base, mm		
- 34	125		. 19	188	235		
20	600	79	100	200	266		
.84	600	79	120	2000	200		
.80	660	36	140	300	366		
199	175	30	340	290	208		
139	Met :-	5.6	186	200	241		



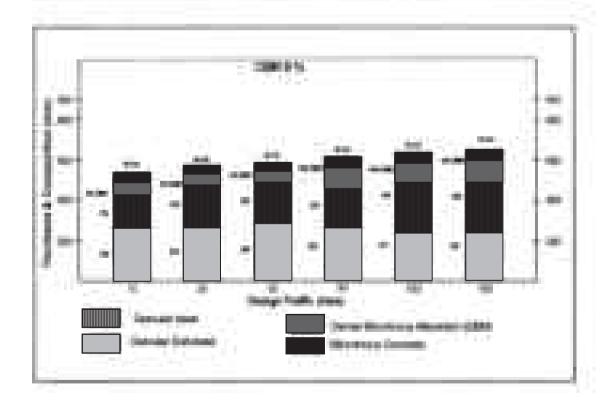
Forement Dougn Catalogue Flore II - Foremented Heign for Traffic Runge 28 : 150 man

	CBR 8 %						
	Total		Pavement (Composition			
Cumulative Traffic,	Pavement	Bituminous	Surfacing				
msa	Thickness, mm	Asphalt Concrete	D B M	Granular Base, mm	Granular Sub- base, mm		
- W	199	36	.94	110	.28		
30	379	900	. 34	281	200		
30	310	100	36-	000	299		
39	910	99	106	291	200		
100	340	36	100	100	240		
199	660	50	1.00	386	348		



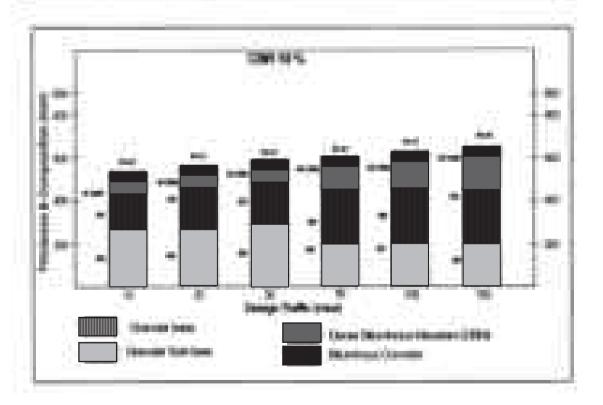
Forement Deeign Catalogue. Flate E - Recommended Deeign for Truffic Bunge 10 - 150 tous

	CBR 9%					
	Total		Pavement Composition			
Cumulative Traffic,	Pavement	Bituminous	Surfacing		C L. C 1	
msa	Thickness, mm	Asphalt Concrete	alt DRM Base, mm b		Granular Sub- base, mm	
. 10-	146	- 30	. 19	199	2.00	
- B	179	200	99	380	179	
100	946	30	96	286	284	
30	144	300	198	200	386	
100	400		198	291	286	
1.00	166	84	134	250	384	



Parenness Design Catalogue Here II - Reconstrangled Design for Traffic Harper 18 : 150 was

CBR 10%						
	Total		Pavement (Composition		
Cumulative Traffic,	Pavement	Bituminous	Surfacing		G 1 C 1	
msa	i i nickness.	Asphalt Concrete	D B M	Granular Base, mm	Granular Sub- base, mm	
- 11	341	19	1.00	175	365	
	391	- 14	100	300	384	
38	584	16	# / ·	300	284	
30	666	84	160	339	26	
1000	684	11	130	256	280	
100	000	100	1,000	100	386	



Admes IV. Numberd Specification for Extendence Layers

1. Respire/source for fruit-ground Labor

(This specification is rated from blandard Specification for Book and Borge World, Section 1900)

SAUL Mapper, This section thrain with the ninaments of the appet hunts of earthwester including preparation; and under ensemble of the from another. He addition of layers of selected moments, the segmenterms of layers required in the oblidion and relating of selected moments or in addition and relating of selected moments or in addition and relating of large.

3. Causeled Labors

S. Brass Courses

A. Dromer Granded Minuscinesis Margadian

A.J. Bridge

This closure specifies the compressions of Decree Standard Microstopical Marcelott, 200851, first was exalising, in least Standard resources. LEMI is when presented for our set could been monormal. This work shall consume of commencements in a reagle or marinale layers of LEMI on a provincity prepared from or soft base. The distincts of a single layer shall be Ribert to LEMI.

4.2 Westerhöhr

A.A.J. Physician

Alternative shall be RD 1300 or 100 770 percentagous greate an apropriate by the course that

4.1.3 Chierry appropries

The country appropriate ideal's sciences of transferd rock, crimbed general an advantance transfer of transfer in the second sec

4.2.3 Plan: supreprise

Hise-aggregator thalf country of returned on executally uncertaing enterior transcent, in a continuous of the teen, passing the 3.76 two store and returned on the 75 decrees interes. They about his obtain, busine, disconting stry yout free ferror man; and not no brakks materia, augment on entire distance materia.

Sales 1. Physical Recomments for course aggregates for Swiss Unaded Sticuminus Manufaces (1988).

Propert	Test	Specification
(Despitement/Res)	Comb that worklish	Max 5% peoply 0.075ms down
Paralle shape	Plateore and charge inn holes (systemed)	Max 30%
Prompt.	See Attacks Abtenior milital	PORT 20%
HILL THE	Approprie tropics foliar.	diver 37%
Polishing	Polisiberi annui salne:	min 15
Dunitin	Institute highers September Telebers	Max 50% Max 10%
Press (Meeterson)	Wilson change but	Max 2%
the gaping	Crusting and origining of thickness. Appropriate debates	Distingt Ferrenii County Wite
Makes Bassalinska	vetational tensols strength.	Refer Admin.

电电子图像

Wiley what insures of Sorty divided national waters used as such that, Spitzerel bear to reserve approved by the Engineers. The Ether shall be guided within the Entire series a to Fabra L.

Table 3. Harding improvement for minutel 6/2++

IS Sieve	Cumulative percent passing by weight of total aggregate	
44	180	
. 11	F5 + 200	
6/876	-81-340	

The liber shall be few from organic impactives and four a Plant to links one grown than 4. The Planticty higher requirement clief not apply if liber is somet so time. When the circum aggregate to general, I put over by reciple of evel aggregate, dual in Particul common or by house lines and the presentage of the aggregate outland secondingly historic to had seed like a not required school that aggregate outland secondingly.

N.X.S Aggregate grading and bracket connect:

The constraint grading of the reserve and this negatigates and added little for the particular statement that fill within the limits shown in Talks 3, for these becomes much because grading 1 or 2. The copy and quantity of because, and appropriate the boson, are able todayand for each mixture copy.

Talido S. Composition of Dense Graded Minaminus Wassilan Personne Latern

Grading	Type 1	Type 2	
Themsell oggregate ties	All area	25.664	
Laper Thicknes	165 - 3.00 years	10 - 75 mm	
16 Seine (rate)	Compliants N to weight o	conf. statutes bening	
45	166	A DOLLAR OF THE PARTY OF THE PA	
17.6	95-105	100	
26.5	46-98	90-100	
19		21-45	
193	95-75	56 - 80	
9.9	1.720		
4.70	38 - 84	36 - 36	
2.26	28-42	29-42	
LB.			
0.6		-67	
6.6	f1:21-	. 120	
6.16			
6475	2.6	2.4	
Distances instance to by meet of actual over	000.4.5	HIL43	
hitumen glock (pen)	96 × 99	69 or 90	

4.3 Missour Bergs

4.3.7 Regulerenses for the existence . .

Agent from the combinency with the grading and quality requirements for individual ingredients, the opposite did need the requirements for the Balle A.

Table 4. Parameteristic for Drone Graded Discretions Manadam

Material redship (Miscolinity)	
Madeurs Rev. ren	1.4
Comparison level Investion of Novey	75.00mm;
Percent on made	1.6
Petros yeads White will believes	66-75

A.S.J. Mindred assessment

The Randon contrast chall be notifed as splants the requirements of the assistant set our in Table 6. The Mandail medical for Assumining the options backs contain that the subspend as described in the Aughob function Manual MS-1, replacing the appropriate remined so the 34.8 constant and telebook on the 52.4 constant, when suppressed in the 52.4 constants.

4.4 Gesettsettsk Operations

4.4.1 Weather and engaged September:

Laying shall be appropried white free-manaling wave is propose up the parties, so be revered, or that ing some, this such that become After each, the free-minimum technic, prime or inch touch study by blaces off both a high processes as jor or receive excess minimum, or the parties. After by dry before toping shall stark. Laying of behaves moreover and some by continue when the section is obtained as interest and one by the whole the set toping shall stark. Laying of behaves moreover and an increase of the tradition on which is trade and in before BTC or when the wind spread as my respective as sometimes in the layer to the laying the behave the layer to the l

4.4.2 (Deserting of southern

The configures seriods the binatologue work is to be 'said shall be magazil of all boom and national sources or any other approved southposent of medical de specified in the continue. The use of a high provious air improved in a component of serious and the summan. The use of a high provious air improved in a component to sentence that or buse author shall be evaluable full time or the use, parties other states or the component to be a the continue of the component to be a state of the component to the component to be a state of the component to be a s

6.6.3 Presumetton of South

The found on which (from Grades) bloomstown Material to so include and the thoroughts swept often by a needbasical brown, and the stan rescuent by conspressed at its limpings where exchanged limens unique more, other approved perdum shed be used up discount by the Engineer.

4.4.4 Frium Your

inthere the supported on which the down linearization states in to be fall to other than a follower bound beyon, a prime and about the applical, as specified, as surreyborne rath, the provisions of Chase, 15th and Cheer (200 (4), beneficed Specification for Board and Stridge, World, or as dismand by the Registers.

4.4.2 North river

lethers the motorful or which the dones binaminenes equipment to or be glassed to a lettermen belond surface, a rack treat dual by applied as specified, in accomplator with the provinces of 1395 and Union 1300 (4) florestand Specifications for Sould and Bushes Works, or as discount for the Engineers

4.4.6 Mintag and transportation of the substance

Fine-missed hierarchisque manuscripte, including denses becommon manuscript, and between transcripte, about the properties to a fore-state place of schopinks contactly need majoritie of problems of problems and confidence quality with blue-mapping contact opposits.

The intermed shall be beneat so that is one to discriminal embosing Core shall be taken not at evertions in. The mosposition shall some possess 27% if for 66/1000 or 68/1000 miles.

The aggregate shall be diried and brunist to that they are moved at the following respectations common attentions agreement to Cleaner 1288 to 12911.

- L35" | 166" C wheel Mix 200 Missages in Land.
- TSO* TSO* C whose NO TS between he should

he series to execute conflicts quality of the non-seal besses counting of leggregates, the lost size place shall be unlike and from time to time:

Himminum instrumes plaid be improperted to pines analyzed whicks, and prints advantaged witholds, and prints solven as proved by the Popularies, that he removed with its proved to making thems. The himminum and shall be begat from of combinitionalists and engregation during proceparations. Such food shall be improved with natural or similar consisting to proved a free class can be also as a process to be a proved to be a p

4.4.7 Spiroding:

Assept in piece where a inclinative juried current accura, bitogratures resentals that he speaked, benefits and recognit by an approved with propolled paring markites; At autor or possible after arrived as one, the numerous shall be engaled markitesmily on the power and latel without obline:

The same of distinctly of securitid in the power shall be regulated to studyle the power to operate continuously. The travel cont of the power, and its studyled of operations, shall be adjusted to studyled as process as joint and uniform flow of bisometrical material across the reveal, from from Stagging, busing and argumentary of the suscensis, he are a material study or extension of the suscensist dead has operate, related and supposed apare where a match material power c parameter has union, the suscensist and compacted approach, related and invelop until materials has made by represented and invelop until materials.

The metroscie discharge of manerial, held in both percer jour shall be in providence with the minimum ration given in the retrieval parts of these hyperdicators. When lesting binder counts or twenting course approaching an explanation point of a statutum, marrians laping that stay (10) was short of the journ. The temporate of the provident of the point or the provident of the stand, and the point or joint curvey shall be been about of starbaining manerial.

Thread placing of per-mound blauminus marries that only be permitted to the following objects proposed.

- But leping segulating innums of invegular chape and nainting findamin.
- It condition spaces where it is impracticable for a point to execute.
- ill. Her business
- in. As the tapementum or expension prints at healther, whether or other personant.
- Ro kning mastic ugitals.
- Its Elits of pocholo.
- tit. Where Steered he the Regimen

Planted providing of per introductioning research necessaries or the addition of such necessal by hand specialing to the period arm, he adjacement of livel, stuff only to permissed to the following chargements:

- As the edges of the ispers of secondal and as policy and searcheds:
- At the appearables to especiate means at bridges, visitants or other enumeres.
- II. As Executed, by the Engineer

A. S. S. Buddeng:

Elitaridectus musicitale phalifies faid and conquerted in ligeric which mades the specified thickness, audion level, regularita requestions and entopartities to be achieved.

Comprehens of himenimum deuterials what comprehen as seven as possible when juying. Comprehens shall be substantially comprehed before the comprehens talks locker the minimum reliting transporter over instead in the relevant part of these flyestifusions. Building of the longitudinal prints shall be duty immediately festional the percent research. After this, suiting shall comprehens at the select program towards the money broughedings to steep that an argue obvious and another money destined persons, it shall progress from the freeze to the sugars edge possible to the recent from if the presences. Build progress from the recent of the presences. Build progress that such suchs the persons to the recent of the persons before the persons that the recent of the recent of the recent of the persons before another recent recent or the recent of the persons. But the persons dead recent recipies around be recent or the such persons that the persons of the transfer of the persons of the persons dead recent recipies around the persons of the persons of the persons of the persons of the persons recipied to refer the statement of the persons of the persons of the persons recipied to refer to the persons of the pers

between the power. The rather shall be reduct in a longitudinal describes, with the driver only nearest the power. The rather shall first continued meant there in places to potent and then weak from the lower or the upper side of the best restrictinging on recreasing peace by as tract one chard of the motive of the mass out on, to the case of a journment -turns rather, at least the mountain worlds of the mass out on partition with super-element and out-districtions of a property described and out-districtions of the super-element and out-districtions of the motive case of a progress from the laster on the super-element.

timber should income at a special of not make those II ken per famo. The ratios shoul our for participated in second an personnel orbits has not been fide interpreted, and second precounts shad be ration to proven idealy has not been fide present, and second precounts of the province of interpreted satisfy refuse the orders are oppositing of intending. The velocity of rations and the province provided spath the machine shall be in poor working rethin, to prevent the missioner from advantage or indicate state the province of province adjusted between the velocity of archere and the mission shall be accounted to provide adjusted between the velocity of archere and the mission shall be accounted to provide adjusted between the velocity of archere and the mission shall be accounted to the partially continuously becomes:

6.4.7 Physiking, Jules and Eligan

Any minimum that becomes how and better, moved with dex or harrye major to is in any may defective, that he replaced with levels his obstairs, which shall be replaced with levels his obstairs, which shall be required by continue that he are continued to continue to provide. Transmiss joints that he better he continue that he are continued to provide. Transmiss joints that he better he continue manify in a straight his account the previous out to improve the full depth of the reserve. The vertical line on furnish that he previous type is improve the full depth of the reserve grade his provide his strains for before the military to the provide his provide his strains.

ioniginalized priori shall be called directly behind the parting operation. The first law shall be pipered true to literated level on approximately versing free. The number placed in the abuning laws shall does be tightly rewrited against the face of the assessed primed laws. The power shall be pushessed to igneed massing overlapping rise jumps there by 20 - 30 minus. Bulency relling, the exemps stratume chall be valued off and discharded. Where the objecting takes in our placed in the name day, or the point in discharged by traffic, the seign of the lane shall be out took took as unrecovery, remained to line and paramet lightly with two the limit promounts grade interested, but before the absence, here is placed.

Any fittall informer special authorizedly on the entering work as a joint shall be excelled represented by incoming it back on an encounage of took, as as in a joint shall be excelled represented as a poster shall energity with the conflue requirements and shall present the number requirements and shall present the number sufficiently of think, testing and founds to other sattement of the treath. The edges of the course plott be infect superserved; with as tomorrows after the language of the course plott be infect superserved; with as tomorrows after the language of the edges. In retaining the edges, retain wheels said removed by or that man beyond the edge.

4.5 Obweeing by Studfiel

The needy juid audien; shod out he open to traffic the at hand 24 his offer laying and completion of parametries, without the express approved of the franceses in vertice.

6.6 Sortion Pinish and Shaskry Comput of Work

The markets Retailed of the pureplaned interespectual deall conform to the requirements of Chance (SAF (11)), (C2), (U3).

4.7 Strengements for Traffic

Electriq the paritied of revolution three, severgenerate the multi-studi he reads its accordance each the previously of Chause 1832 transitied Epochizations for Novel and Bridge Works.

A.B. Ministration and Size Physicians

Dinner Dreaked Melowishawa Maderials shall be reconsered as foculent each either in radio meson, along in by the opinio meres as a specified thickness on breaked on the European discovering, or discovering, or as discovered by the Responses.

S. Egure-Graded Pretotic Barthering (Private Carpetti

Olyan-posted Pennsk Kerberry salny Pennsystian Binature or Califork J.

S.T. Streiger,

This work that course of the preparation, laying and prespection of an open greekel present surfacing moveral of 30 years the transcription of salarite even appropriate configuration of salarite even appropriate formation and the preparation of the experiment of t

R.D. Makeriski

SERVISION

The felicities shall for a perpensiving hitegeom of a notable grade as appetited to the European, or as discound to the Euginees, and satisfying the populationness as per the Clause full basished beautifulation at Board and Brings Works.

T.I.I. Napripore

The yearing appropriate shall promise of arached rank, coulded gravel on editor limit accepted received for the 2.1% and short. They shall be river, hard, and shareful; of collision shape, but then due and salt or fealint paying, equally to other shinesettics existing. Where the Commences and salt of search of stagespace have given affinity for bisomers, as a condition for the approval of that except, the bisomers shall be arranged with approval matching approximated for the acceptance of the against absolute with approval matching approximated for the acceptance of the against about the payment about he many for a payment.

Percinal regulations are apprepared are given to the subtle 1.

Table 9. Mayereal frequerements for course aggregates for open graded pressumediates

Propert	Test	Specification	
Chambras .	Comm. ever smally en-	Mile 1% pecting 6-075 ed permi	
Politicile olivaçõe	Plainteen and elementaries below translated?	Mw 30%	
Sings	Fore Adoptive Advenues voltar Aggregate coquact nature	1011 40% 1000 30%	
Parking	Nortebute Smilton Sniphata Magnetien: Sulphate	May 1079- May 1076	
Perm Manageme	Waste placeping	Mu.im	
palation	Examing and stropping of letterers higherpric tribitation.	Michigan, Resolved Country VDA	
matri missmily.	terresed sensile screpti	Mia.80%	

1.3.3 Physiolog of manifolis

The materials that he assess the solutions with halds in

5.5 Except verbins Elgerations:

E.S.S Weedfor and engennel binstumon

Laying shall be respectively while their equalities between to present us the northern to be revered, or dering rate, the peak dury secrets. After each, the behaviours surface, present or techniques as the lateral secret extensional section, as their substances of the lateral section socializes, or the substance left to sky better laying that start. Laying of telepastes expensional start and test to the contest one where the six resuperposition at the restaur of shorts in it is to be taken to the restaurance of the social section.

Sales is. Quantities of contentals required for \$11 mg in of road conface for \$25 mm. Stack agent product present corpet colony patternation bittories on antibody

Appropriates (44)	Number from the 102 year passing 50.4 sees	XXIII cult. Im-
ė.	Nontral concruies (1.2 min passing 11.2 min stree and returned up 5 to min over	NOT ON TH
	Total	WIT rish m
Binderi	(Quantities in recent of seconds can binution)	600 PM
Sid	or 15 by bringing per title at	99.0 Mg
.00	from 6.69 code as of 13.3; some assessed date attention of the first field by bitting per craft. In:	1114
	Panal	1

5.3.2 Proposation of technol.

The underlying equies on which the intensions sufficient is so be less that he prepared, stupped and conditioned in the specified lines, grade and recursorsion. The notions to which the becommon work is in he had shall be obtained of all home and recommon matter by matter by mount of a surplustry format in the effect approved equipment fraction is provided in the topoper. The use of a high provide it provides a topoper or remove flat or become matter that he invalidate had time on the size or design and the high provides on the size or bear examples.

It present and velocity assessed shall be applied in an profile Clause 1301 and 1000 franched Specification of Real and Bitting Weeks.

B. R. D. Black street.

A suck cost completes with Great 1511 and 1512 Standard Specification for Bind and Statis Modes shall be updied lover the fear proposessor to being of the swifteng.

5.5.4 Progravation of promis-

Has min plant the Machinesia powers of appropriate reports and type shall be used for the preparation of the min removal. The loss use plant shall have requests depresent for the preparation of the braids at the stant of mining shall be in the range of 150°C to 150°C to 150°C out that the organization is the range of 150°C to 150°C to 150°C provided that the 050°C to 150°C and 150°C to 150°C provided that the 050°C to 150°C and 150°C to 150°C and 150°C to 150°C and 150°C to 1

The new which he immediately transported from the inter in the point of parcin annually establish or board for repetition or board for their related annual for the board for the board for the board of the second for the board for the board of the board of the board for the board of the boar

\$ 2.6 Spreading and rolling

The payment possessial shalf by sprayed by samples to each to the desired philistener, probe and even list (someth) residing the allowance for sty price quantity required to \$11 up representate. If my The close full should be closeled by constant by source of unider boards and Spraydistrom leveled out. Executive our of blacker or releas drawed by constant his cost as cofficient implies of interestant consents business law into appears at the conjunction with \$1.00 mass or cofficient implies at the origin and progress based the store length of progress facilities shall progress at the origin and progress based the store length admits the law or payment that is not progress from the law or my progress from the law or my the while area and, and high spect or impression, which instant appoints, that is previously along the relief of the province of the province of the province of the province of the store that the relief of the store that the province of the store of the relief of the store of the province of t

Except you of water the this purpose shad also be evoluted. Rodoux shall not resed on nanely half minutest. Reducy operations shall be probjected to every mignet includtus nonjectures of the rest half-father CEST E...

1 1 4 Note (cont.)

A stick visus continuously to Clause 1946 or 1966 franched Specifications of Roads and Bridge Works of the opper specified in the Conteast Mod by upplied to the oscillar bosonicitation offer Serving the surfactors:

8.4 Observes to Traffic

the position about the adiabased on the road position and countries been back. After the east man in back, the most may be appeared to positio according to the type of seed man and so discovered by the Engineers.

3.1 Surface Fields and Obulty Casted of West.

The bothers thinked of the compliced communities shall continue to the improvement of Clause 1997 (CO), (1921-CO).

5.4 Actor/growers for Troffs:

Starting Clier personal of universal times, introngeneeted of totalfor shall be inselfe to advantage with the previous of Classes 100 hostal and based personal total based personal times.

S.T. Marangermont the Pagement

Open gataball promise surfacing about he research so Distribut weak, his the more moregraph to be overmed, to square motors: The pure will be the not man compand, and all alternates for receivage and curring of pours shall be deemed to be included to the com-

Planing and Design Branch

Department of Roads Babarmahal, Kathmandu Telephone: 977-01-4262981