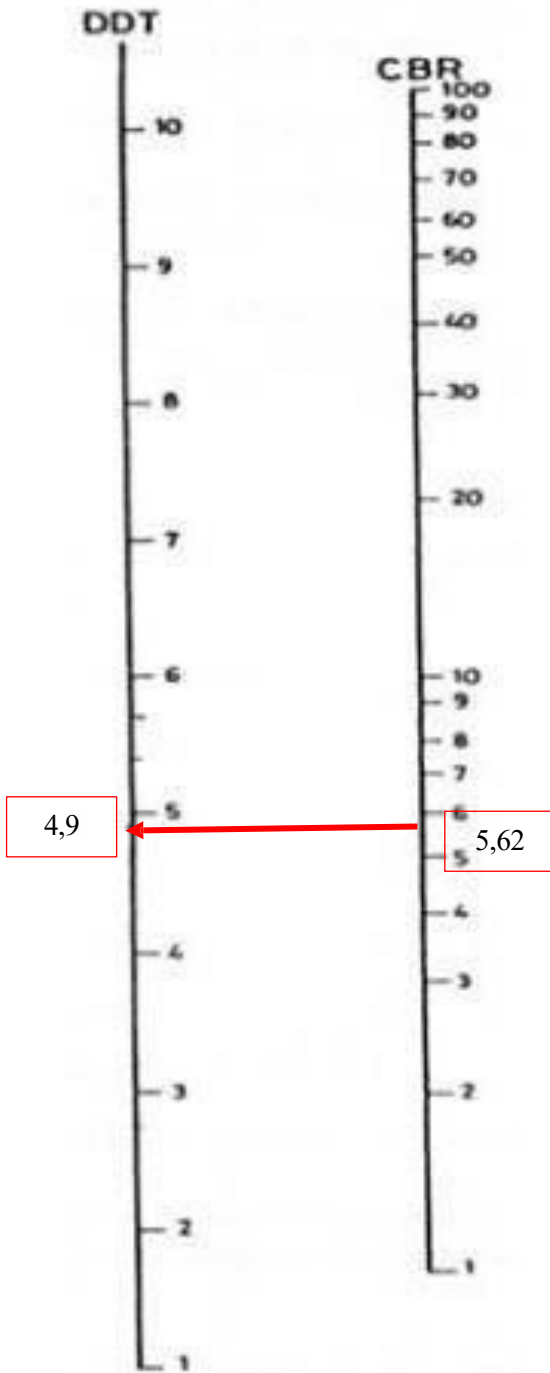


NILAI DDT

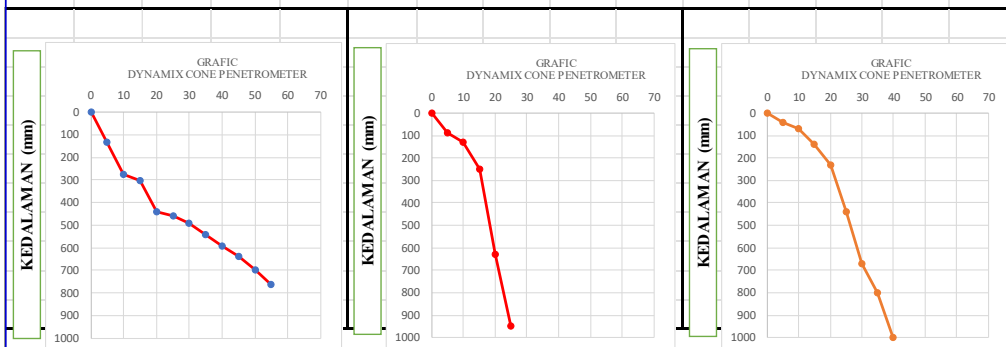


DYNAMIC CONE PENETROMETER TEST (DCP)



Tanggal : 13 Februari 2018
 Lokasi : Ruas Jalan Nasional III Wanareja - Majenang

STA : 0+000 PCP					STA : 0+200 KA					STA : 0+400 KI																																																																														
Σn	D (mm)	ΔD (mm)	DCP (%)	CBR (%)	Σn	D (mm)	ΔD (mm)	DCP (%)	CBR (%)	Σn	D (mm)	ΔD (mm)	DCP (%)	CBR (%)																																																																										
0	0	0	16,33	15,77	0	0	0	31,50	7,88	0	0	0	9,33	28,49																																																																										
5	135	135			10	275	275			15	305	305			20	440	440	25	460	460	30	490	490	35	540	540	10,00	26,49	64,00	3,72	25	440	440	35,33	6,98	40	590	590	45	640	640	11,00	23,95	30	670	670	50	700	700	55	760	760	12,00	21,84	35	800	800	33,00	7,50	60	820	820	65	880	880	12,00	21,84	40	1000	1000	70	940	940	Rata-rata CBR				10,45	Rata-rata CBR				2,85	Rata-rata CBR				3,64
10	275	275			15	305	305			20	440	440			25	460	460	30	490	490	35	540	540	10,00	26,49	64,00					3,72	25	440			440	35,33	6,98	40	590	590						45	640	640	11,00	23,95	30								670	670	50	700	700	55						760	760	12,00	21,84	35	800	800	33,00	7,50	60	820	820	65	880	880	12,00	21,84	40
15	305	305			20	440	440			25	460	460			30	490	490	35	540	540	10,00	26,49	64,00				3,72	25	440	440		35,33	6,98	40	590	590			45	640	640	11,00	23,95	30	670	670	50	700	700				55	760	760	12,00	21,84	35	800			800	33,00	7,50	60	820	820	65	880	880	12,00	21,84								40	1000	1000	70	940	940			
20	440	440			25	460	460			30	490	490			35	540	540	10,00	26,49	64,00				3,72	25	440		440	35,33	6,98	40			590	590	45	640	640	11,00	23,95	30						670	670	50	700	700	55	760	760	12,00					21,84	35				800	800	33,00	7,50	60	820			820	65	880	880	12,00	21,84	40				1000	1000	70	940	940	Rata-rata CBR
25	460	460			30	490	490			35	540	540			10,00	26,49	64,00				3,72	25	440		440	35,33	6,98	40			590	590	45	640	640	11,00	23,95	30				670	670	50	700	700			55	760	760	12,00	21,84	35		800	800	33,00	7,50			60	820	820					65	880	880	12,00	21,84	40	1000	1000				70	940	940			Rata-rata CBR			
30	490	490	35	540	540	10,00	26,49	64,00	3,72	25	440	440	35,33	6,98				40	590	590		45	640	640	11,00			23,95	30	670	670	50	700	700	55				760	760	12,00			21,84	35	800	800	33,00	7,50	60	820				820					65	880	880	12,00	21,84	40	1000	1000	70	940	940	Rata-rata CBR						10,45	Rata-rata CBR				2,85	Rata-rata CBR				3,64	
35	540	540	10,00	26,49	64,00					3,72	25	440			440	35,33	6,98																																																																							
40	590	590				45	640	640	11,00		23,95	30	670	670	50			700	700	55	760	760	12,00	21,84	35	800	800	33,00	7,50	60	820	820	65	880	880	12,00	21,84	40	1000	1000	70	940	940	Rata-rata CBR				10,45	Rata-rata CBR				2,85	Rata-rata CBR				3,64																														
45	640	640	11,00	23,95	30	670	670	50		700					700	55	760	760	12,00	21,84	35	800								800	33,00	7,50	60	820	820						65	880	880	12,00	21,84	40	1000	1000	70	940	940	Rata-rata CBR				10,45	Rata-rata CBR				2,85	Rata-rata CBR				3,64																						
50	700	700						55	760	760	12,00	21,84	35	800	800	33,00	7,50	60					820	820	65	880	880	12,00	21,84				40	1000	1000	70	940	940	Rata-rata CBR				10,45						Rata-rata CBR				2,85	Rata-rata CBR				3,64																														
55	760	760	12,00	21,84	35	800	800	33,00	7,50																																																																															
60	820	820								65	880	880	12,00	21,84	40	1000	1000	70	940	940	Rata-rata CBR				10,45	Rata-rata CBR				2,85	Rata-rata CBR				3,64																																																					
65	880	880	12,00	21,84	40	1000	1000	70	940	940	Rata-rata CBR							10,45	Rata-rata CBR				2,85	Rata-rata CBR				3,64																																																												
70	940	940																																																																																						
Rata-rata CBR				10,45	Rata-rata CBR				2,85	Rata-rata CBR				3,64																																																																										



TUMBUKAN

Keterangan :
 A. Nilai DCP = Kedalaman/Tumbukan (mm/Blow)
 B. Nilai CBR Lapisan Dalam Persen $10^{(2.48-1.057 \times \log DCP)}$
 C. Nilai CBR Rata - Rata = $\frac{Kedalaman \text{ Lapisan A} \times (Nilai \text{ CBR Lapisan A}^{(1/3)}) + \dots}{Kedalaman \text{ Lapisan A} + \dots}$

Disetujui oleh :

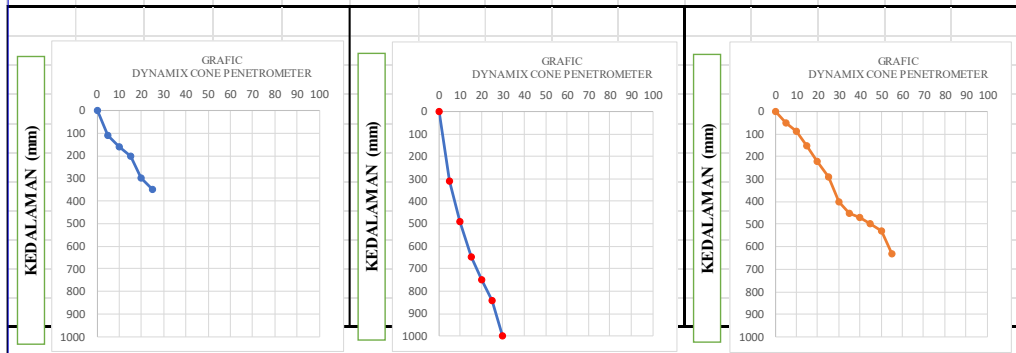
PUPR Bina Marga

DYNAMIC CONE PENETROMETER TEST (DCP)



Tanggal : 13 Februari 2018
 Lokasi : Ruas Jalan Nasional III Wanareja - Majenang

STA : 0+600 KA					STA : 0+800 KI					STA : 1+000 KI																																																																																																																																																																																								
Σn	D (mm)	ΔD (mm)	DCP (%)	CBR (%)	Σn	D (mm)	ΔD (mm)	DCP (%)	CBR (%)	Σn	D (mm)	ΔD (mm)	DCP (%)	CBR (%)																																																																																																																																																																																				
0	0	0	15,00	17,25	0	0	0	43,33	5,62	0	0	0	13,33	19,54																																																																																																																																																																																				
5	110	110			10	160	160			15	200	200			20	300	300	25	350	350	10,00	26,49	25	840	840	23,33	10,82	25	290	290						30	1000	1000			30	400	400											35	450	450	7,00	38,61											40	470	470													45	500	500	6,00	45,45											50	530	530													55	630	630	19,00	13,44											60	720	720													65	800	800	16,00	16,12											70	880	880													75	1000	910	6,00	45,45	Rata-rata CBR				5,14	Rata-rata CBR				3,34	Rata-rata CBR					12,76
10	160	160			15	200	200			20	300	300			25	350	350	10,00	26,49	25	840	840	23,33	10,82	25	290	290						30	1000	1000			30	400	400											35	450	450	7,00	38,61											40	470	470													45	500	500	6,00	45,45											50	530	530													55	630	630	19,00	13,44											60	720	720													65	800	800	16,00	16,12											70	880	880													75	1000	910	6,00	45,45	Rata-rata CBR				5,14	Rata-rata CBR				3,34	Rata-rata CBR					12,76			
15	200	200			20	300	300			25	350	350			10,00	26,49	25	840	840	23,33	10,82	25	290	290						30	1000	1000			30	400	400											35	450	450	7,00	38,61											40	470	470													45	500	500	6,00	45,45											50	530	530													55	630	630	19,00	13,44											60	720	720													65	800	800	16,00	16,12											70	880	880													75	1000	910	6,00	45,45	Rata-rata CBR				5,14	Rata-rata CBR				3,34	Rata-rata CBR					12,76						
20	300	300			25	350	350			10,00	26,49	25			840	840	23,33	10,82	25	290	290						30	1000	1000			30	400	400											35	450	450	7,00	38,61											40	470	470													45	500	500	6,00	45,45											50	530	530													55	630	630	19,00	13,44											60	720	720													65	800	800	16,00	16,12											70	880	880													75	1000	910	6,00	45,45	Rata-rata CBR				5,14	Rata-rata CBR				3,34	Rata-rata CBR					12,76									
25	350	350	10,00	26,49	25	840	840	23,33	10,82	25	290	290						30	1000	1000			30	400	400											35	450	450	7,00	38,61											40	470	470													45	500	500	6,00	45,45											50	530	530													55	630	630	19,00	13,44											60	720	720													65	800	800	16,00	16,12											70	880	880													75	1000	910	6,00	45,45	Rata-rata CBR				5,14	Rata-rata CBR				3,34	Rata-rata CBR					12,76																		
					30	1000	1000			30	400	400											35	450	450	7,00	38,61											40	470	470													45	500	500	6,00	45,45											50	530	530													55	630	630	19,00	13,44											60	720	720													65	800	800	16,00	16,12											70	880	880													75	1000	910	6,00	45,45	Rata-rata CBR				5,14	Rata-rata CBR				3,34	Rata-rata CBR					12,76																															
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Rata-rata CBR				5,14	Rata-rata CBR				3,34	Rata-rata CBR					12,76																																																																																																																																																																																			



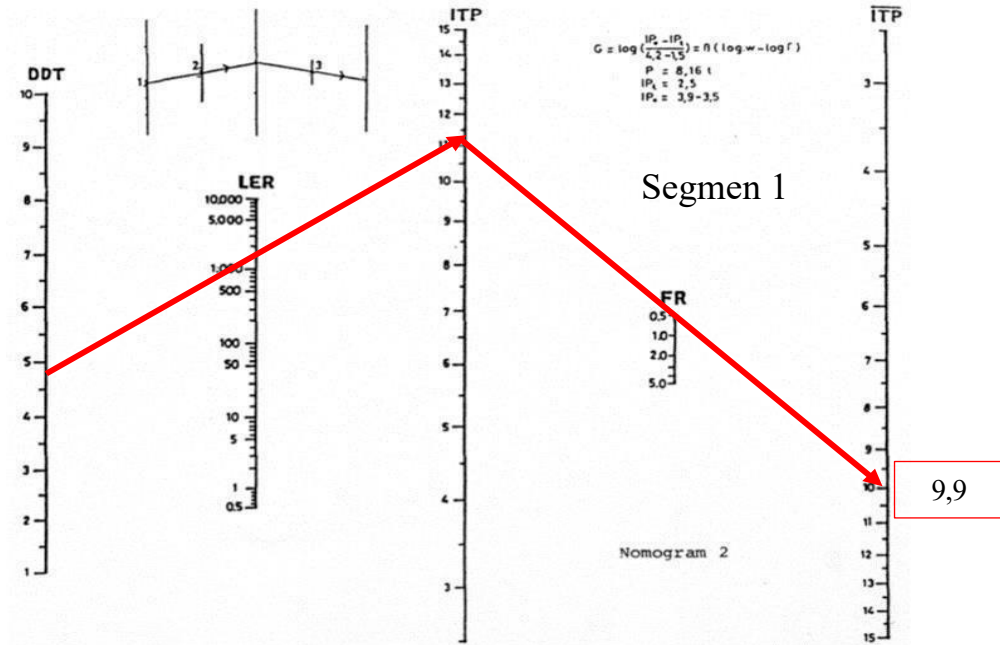
TUMBUKAN

Keterangan :
 A. Nilai DCP = Kedalaman/Tumbukan (mm/Blow)
 B. Nilai CBR Lapisan Dalam Persen $10^{(2.48 - 1.057 \times \log DCP)}$
 C. Nilai CBR Rata - Rata = $(\text{Kedalaman Lapisan A} \times (\text{Nilai CBR Lapisan}^{(1/3)})) + \dots$
 Kedalaman Lapisan A +

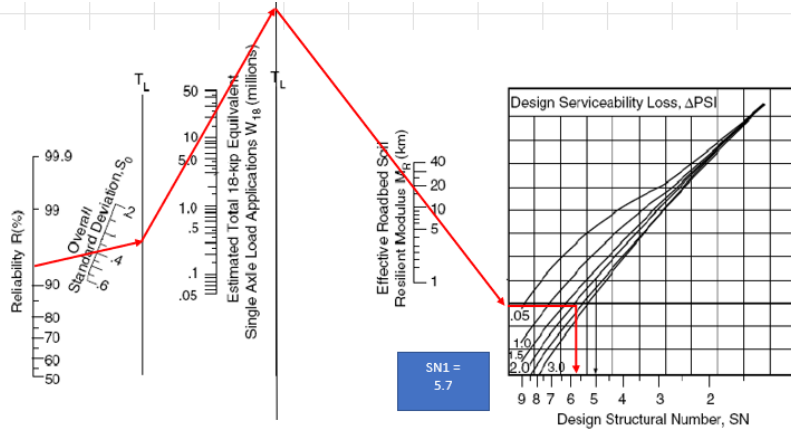
Disetujui oleh :

PUPR Bina Marga

Temperature Perkerasan Rata-Rata tahun (TPRT)



Structural Number SN

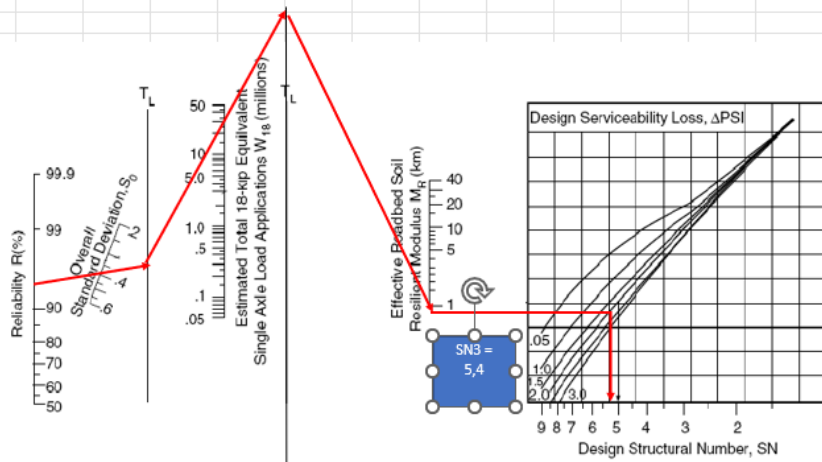


DATA SN 1:

W_{18}	=	360800	ton force	7,95E+05	kips
R	=	95			
Zr	=	-1,645			
S_o	=	0,4			
SN1	=	5,7			
M_R	=	120000			
ΔPSI	=	2			

1 ton force = 2,2046 Kips
1 kg/cm2 = 14,22 Kips

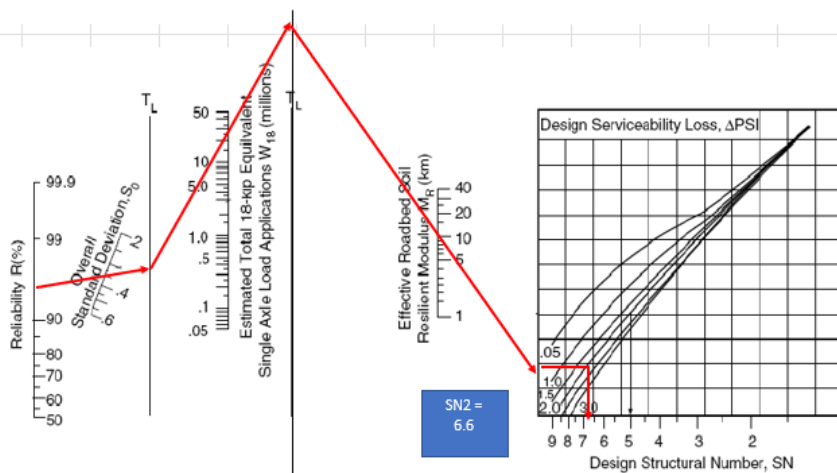
Log10 (W_{18}): 17,3572



DATA SN 2:

W_{18}	=	360800	ton force	7,95E+05	kips
R	=	95			
Zr	=	-1,645			
S_o	=	0,4			
SN3	=	5,4			
M_R	=	9000			
ΔPSI	=	3			

Log10 (W_{18}) 9,18153



DATA SN 2:

W_{18}	=	360800	ton force	7,95E+05	kips
R	=	95			
Zr	=	-1,645			
S_o	=	0,4			
SN2	=	6,6			
M_R	=	75000			
ΔPSI	=	2			

Log10 (W_{18}) 15,5861

