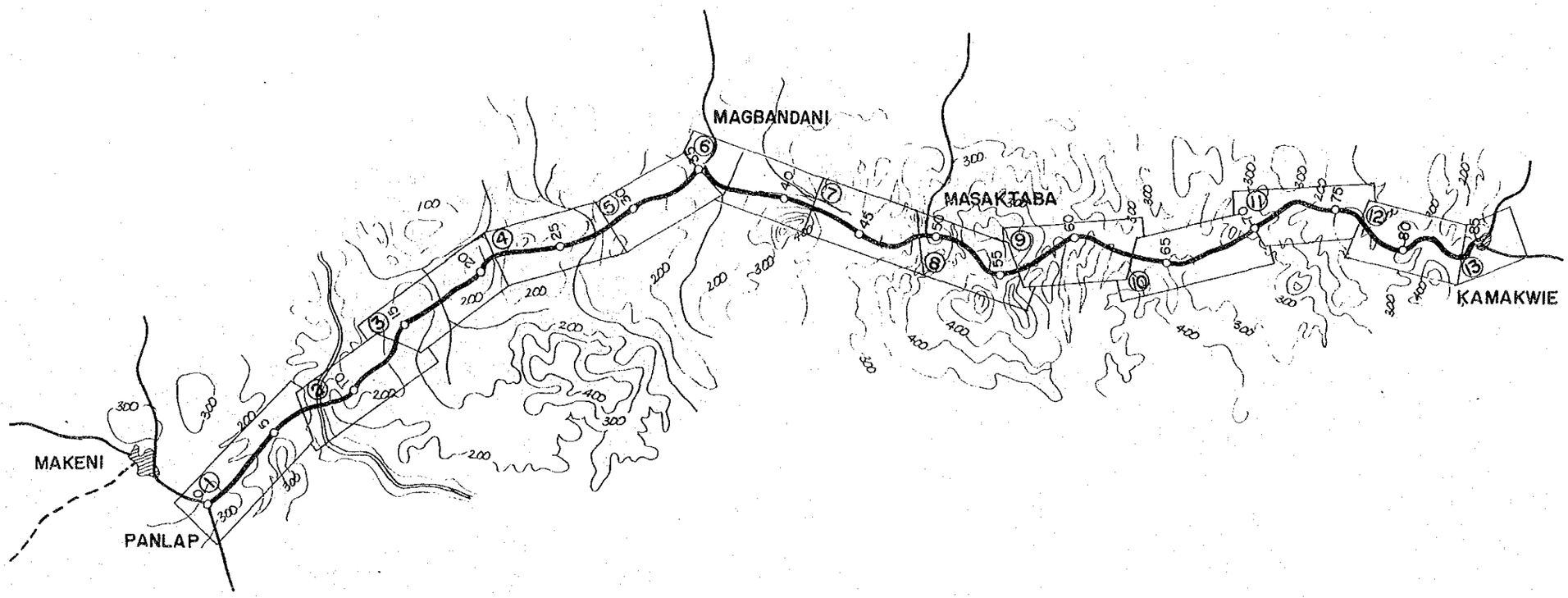
MAKENI - KAMAKWIE ROAD PROJECT FEASIBILITY STUDY	
COVER SHEET (A)	DWG-
SHEET NO.	

APPENDIX S－I　代替案Ａの平面図と縦断図



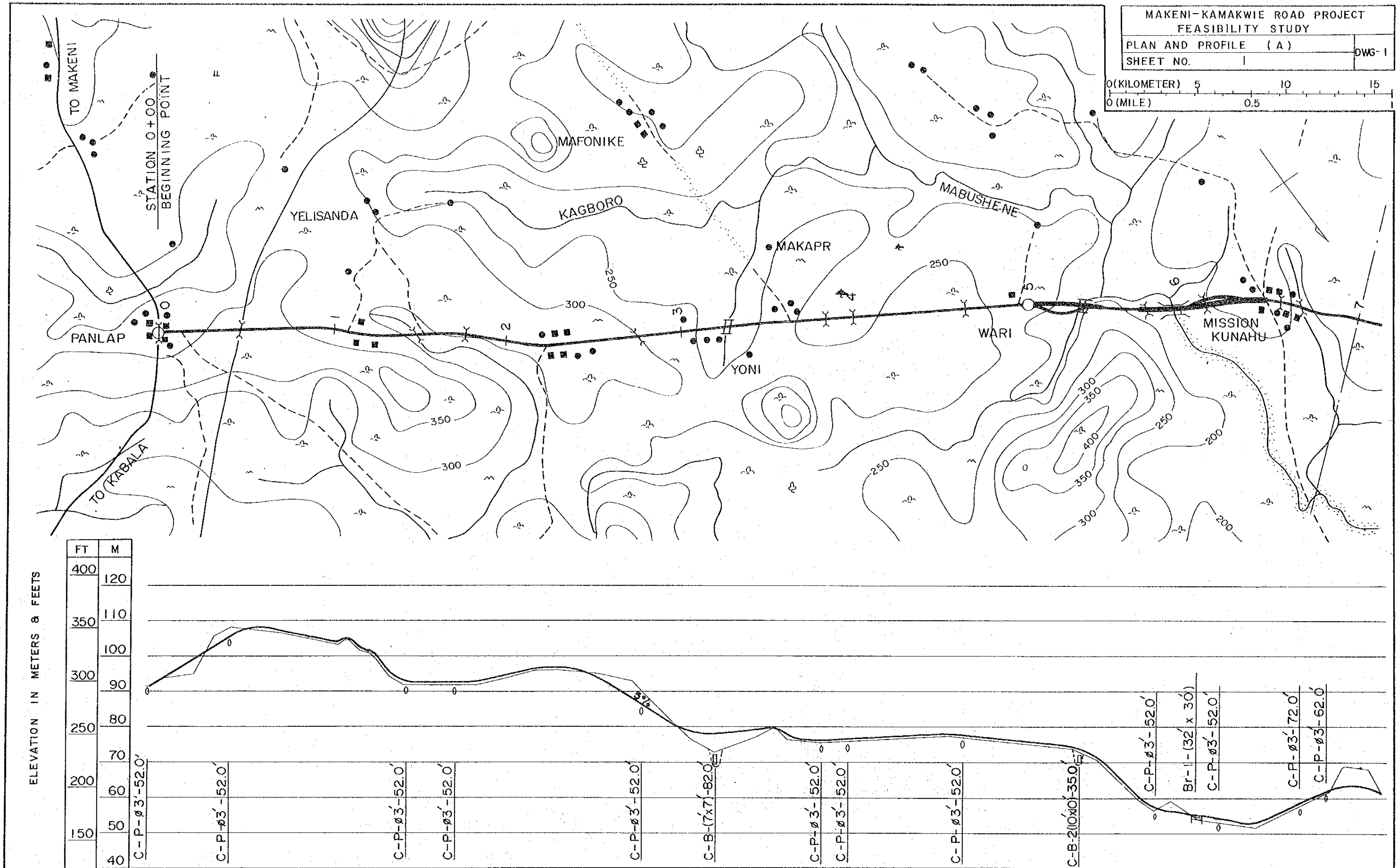
ABBREVIATIONS

H	RE-ALIGNMENT, HORIZONTAL FOR ROAD IMPROVEMENT
V	RE-ALIGNMENT, VERTICAL FOR ROAD IMPROVEMENT
W	WIDENING OF ROAD WIDTH FOR ROAD IMPROVEMENT
C - P - ϕa - ℓ	PROPOSED PIPE CULVERT, ϕa (DIAMETER, FOOT), ℓ (LENGTH, FOOT)
C - B (a x b) - ℓ	PROPOSED BOX CULVERT, a x b (WIDTH x LENGTH ALONG THE ROAD), ℓ (CULVERT LENGTH)
C - B - n(a x b) - ℓ	PROPOSED BOX CULVERT, n (ROW), a x b (WIDTH x LENGTH ALONG THE ROAD), ℓ (CULVERT LENGTH)
Br - n - (a x b)	PROPOSED PRESTRESSED CONCRETE BRIDGE, n (NOS. OF SPAN), a x b (WIDTH x SPAN LENGTH)

MAKENI–KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (A) — DWG-1

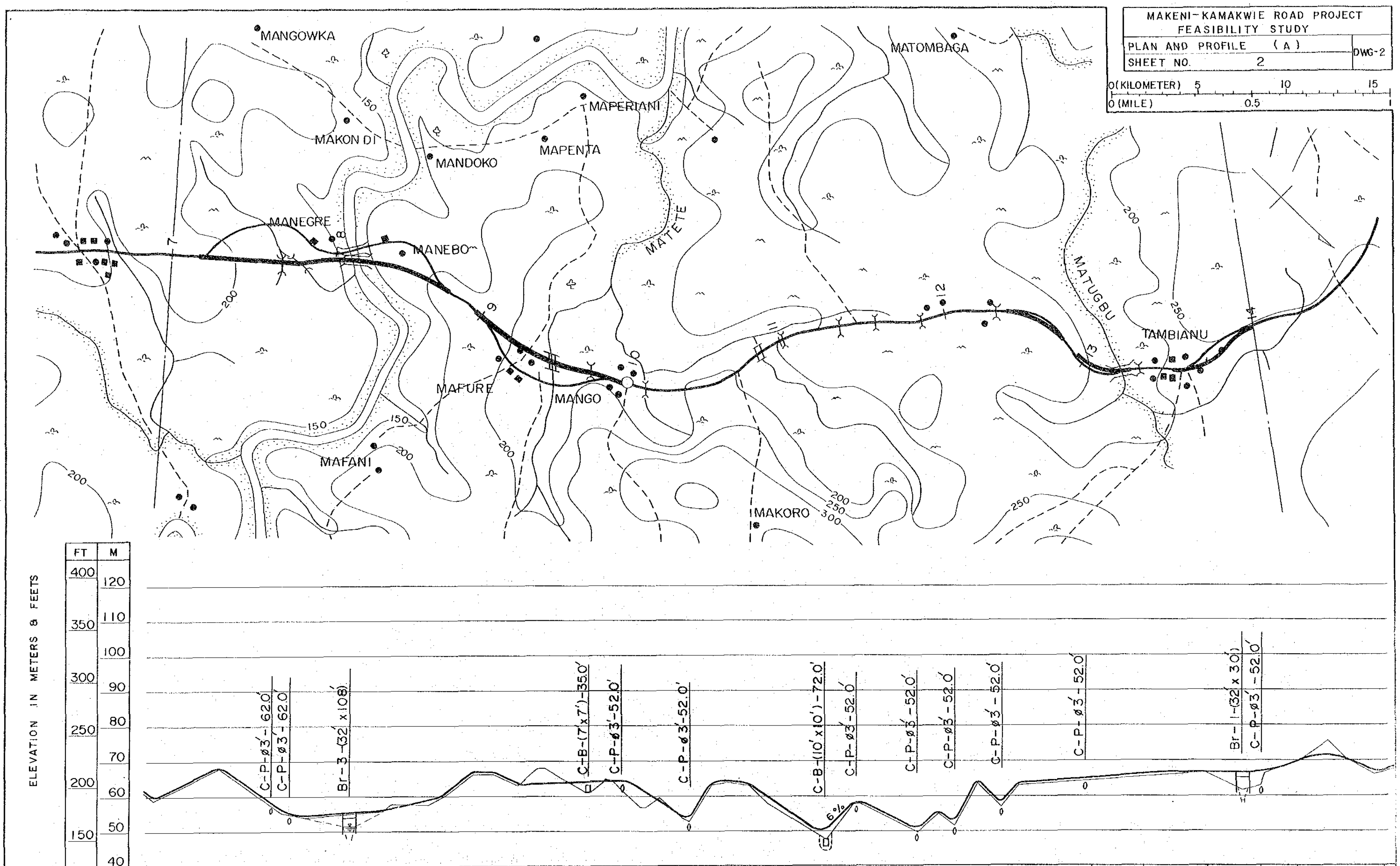
SHEET NO. 1



IMPROVEMENT	W	V	W	V	W	H	W	H	V
ROAD SURFACE KIND	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING		
C B R OF SUBGRADE	C. B. R. > 25								
DISTANCE — MILES	0	1	2	3	4				
DISTANCE — KILOMETERS	0	1	2	3	4	5	6	7	

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (A)	DWG-2
SHEET NO. 2	

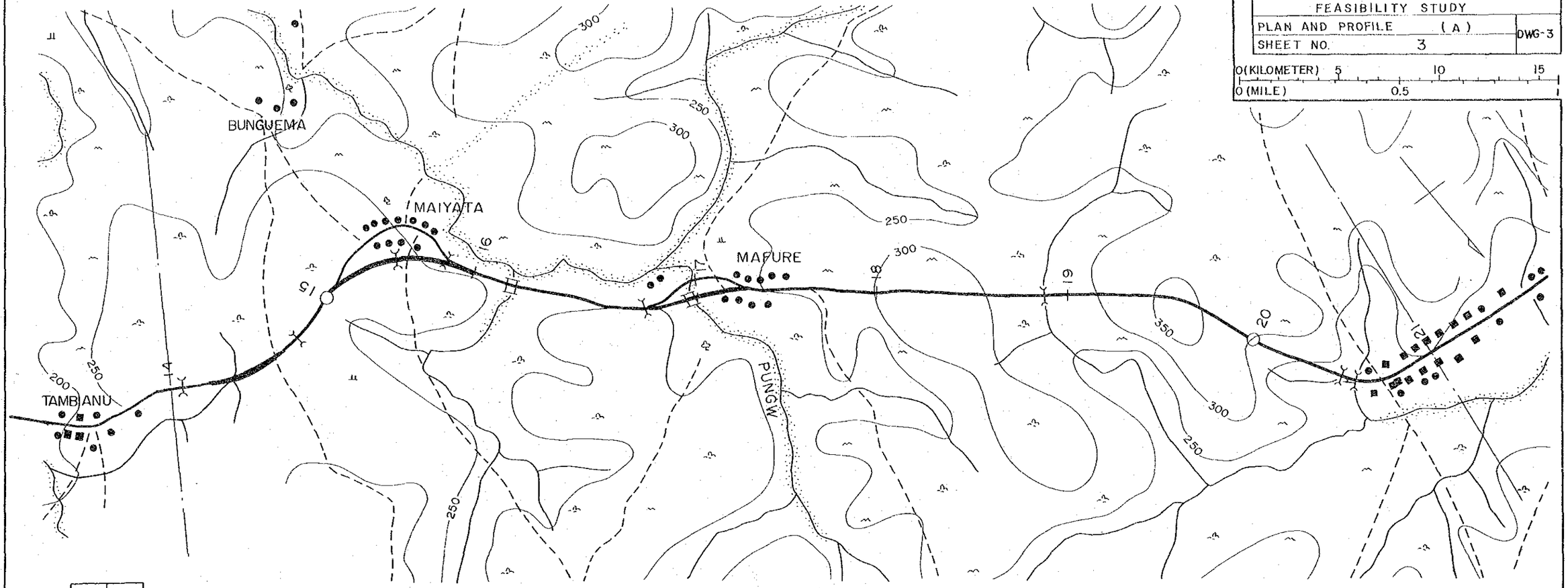


IMPROVEMENT	W	H		W	H	W	V	W	H	W	H	W	H
ROAD SURFACE KIND	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING		SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT		SURFACE DRESSING					
C B R OF SUBGRADE	C. B. R > 25												
DISTANCE MILES		5			6		7		8				
DISTANCE KILOMETERS	7	8		9	10		11	12		13			14

MAKENI - KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(A)	DWG-3
SHEET NO.	3	

0(KILOMETER) 5 10 15
0 (MILE) 0.5



ELEVATION IN METERS & FEETS

FT	M
400	120
350	110
300	100
250	90
200	80
150	70
	60
	50
	40

IMPROVEMENT		W	H	W	H			W	H		W	V	W			V	W							
ROAD SURFACE KIND		SURFACE DRESSING			SURFACE DRESSING WITH SAND MAT			SURFACE DRESSING					SURFACE DRESSING WITH SAND MAT		SURFACE DRESSING		SURFACE DRESSING WITH SAND MAT		SURFACE DRESSING					
C B R OF SUBGRADE		C.B.R > 25																						
DISTANCE	MILES				9				10				11				12				13			
	KILOMETERS	14			15				16				17				18				19			

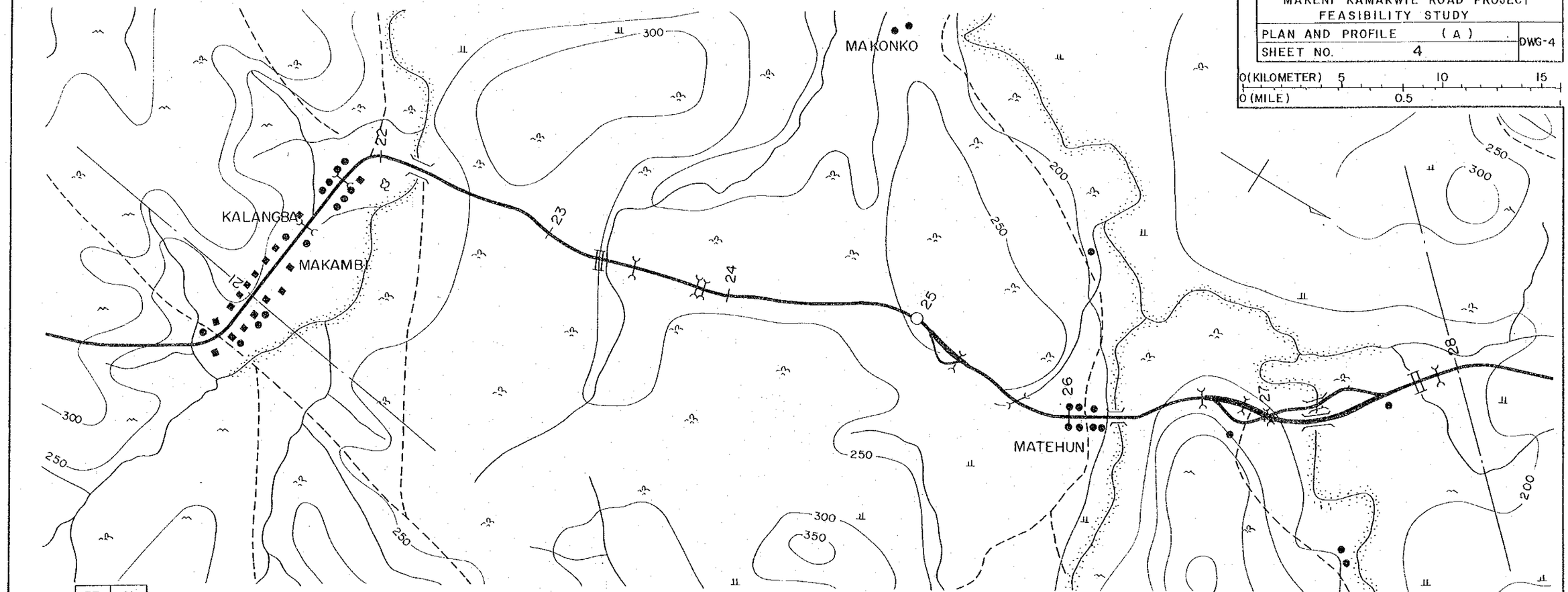
MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (A) DWG-4

SHEET NO. 4

0(KILOMETER) 5 10 15

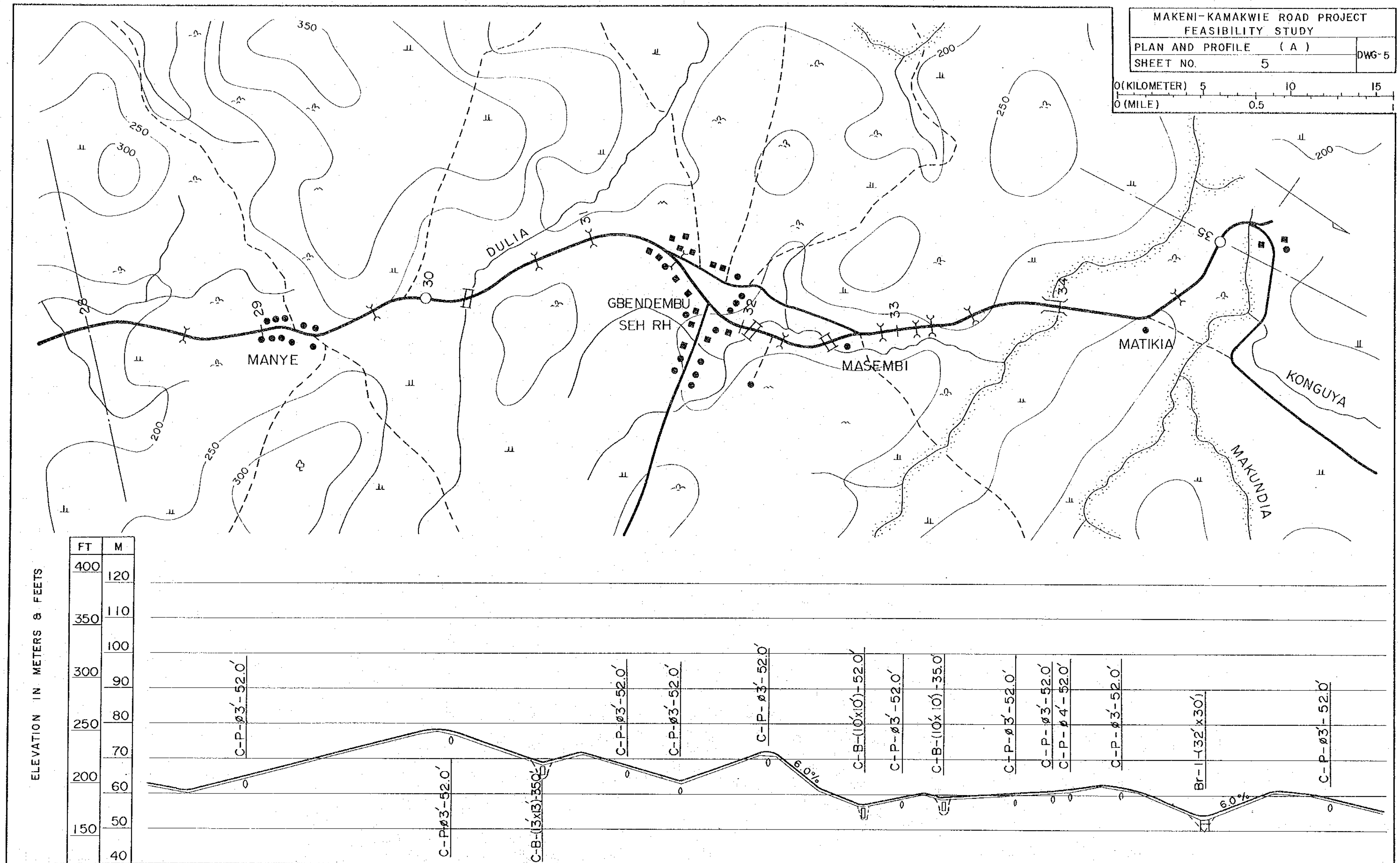
0 (MILE) 0.5



IMPROVEMENT		W		V	W		H	W	V	H		W
ROAD SURFACE KIND		SURFCE DRESSING	SAFACE DRESSING WITH SAND MAT		SURFACE DRESSING			SURFACE DRESSING WITH SAND MAT		SURFACE DRESSING		
C B R OF SUBGRADE		C.B.R > 25										
DISTANCE	MILES	14			15			16		17		
	KILOMETERS	21	22	23	24	25	26	27	28			

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (A)	DWG-5
SHEET NO. 5	



IMPROVEMENT	W						H
ROAD SURFACE KIND	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING
C B R OF SUBGRADE	C.B.R > 25						
DISTANCE MILES	18	19	20	21			
DISTANCE KILOMETERS	28	29	30	31	32	33	34 35

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (A) DWG-6

SHEET NO. 6

0(KILOMETER) 5 10 15

0 (MILE) 0.5

BOBO

BOINDIA

MAGBANDANI

MATIKIA

KONGUYA

BOM

MAKUNDIA

200

300

400

500

600

700

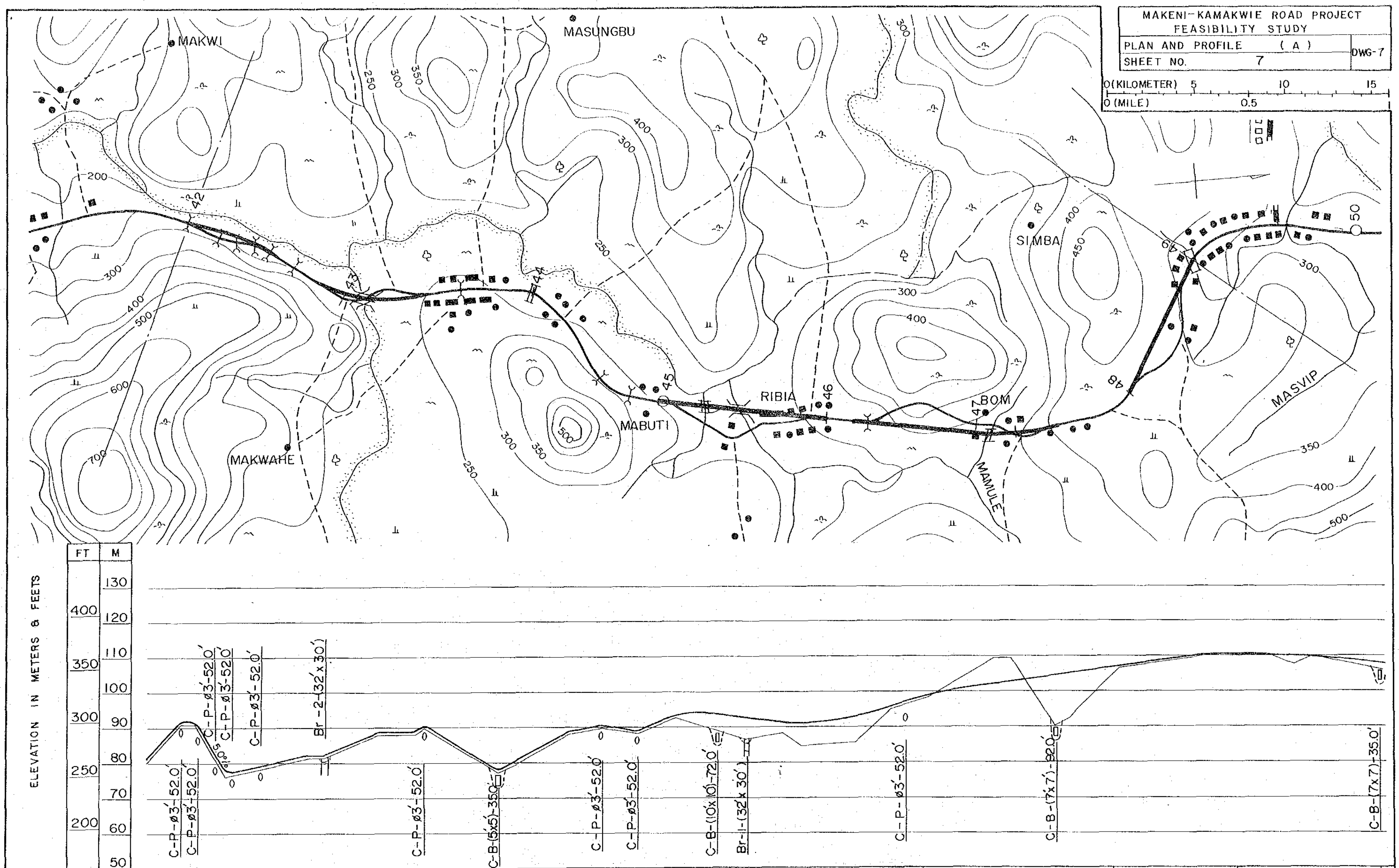
35 36 37 38 39 40 41 42

ELEVATION IN METERS & FEETS

FT	M
400	120
350	110
	100
300	90
	80
250	70
	60
200	50
150	40

Br - 1 - (32' x 30')
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-B-(10'x10')-35.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-B(10'x10')-35.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-40.0'
C-P-Ø3'-40.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-H-Ø3'-52.0'
C-P-Ø3'-40.0'
4.0%

IMPROVEMENT	H	W	H	W		H	W	
ROAD SURFACE KIND	SURFACE DRESSING			SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING		SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING
C B R OF SUBGRADE	C.B.R > 25							
DISTANCE MILES	22		23		24		25	26
DISTANCE KILOMETERS	35	36	37	38	39	40	41	42



IMPROVEMENT: H | W | H | W | H | W | H | W | H

ROAD SURFACE KIND: SURFACE DRESSING | SURFACE DRESSING WITH SAND MAT | SURFACE DRESSING | SURFACE DRESSING WITH SAND MAT | SURFACE DRESSING

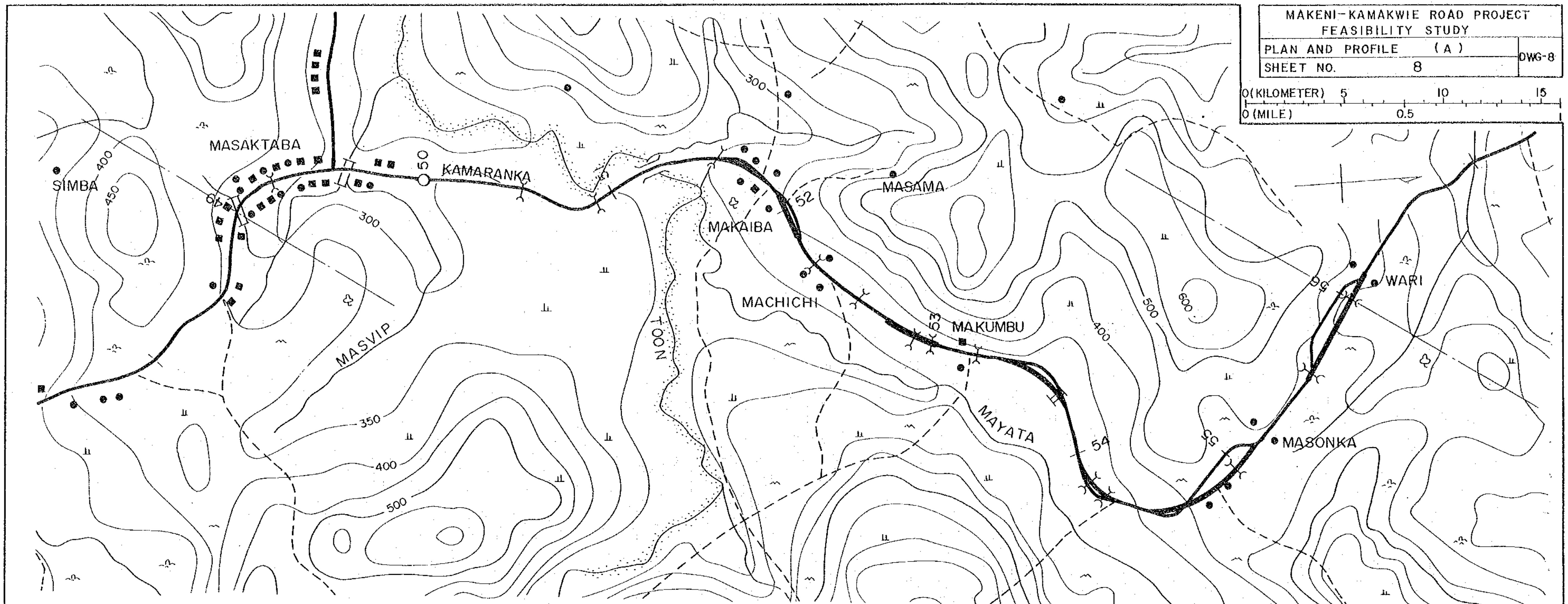
C B R OF SUBGRADE: C . B . R > 25

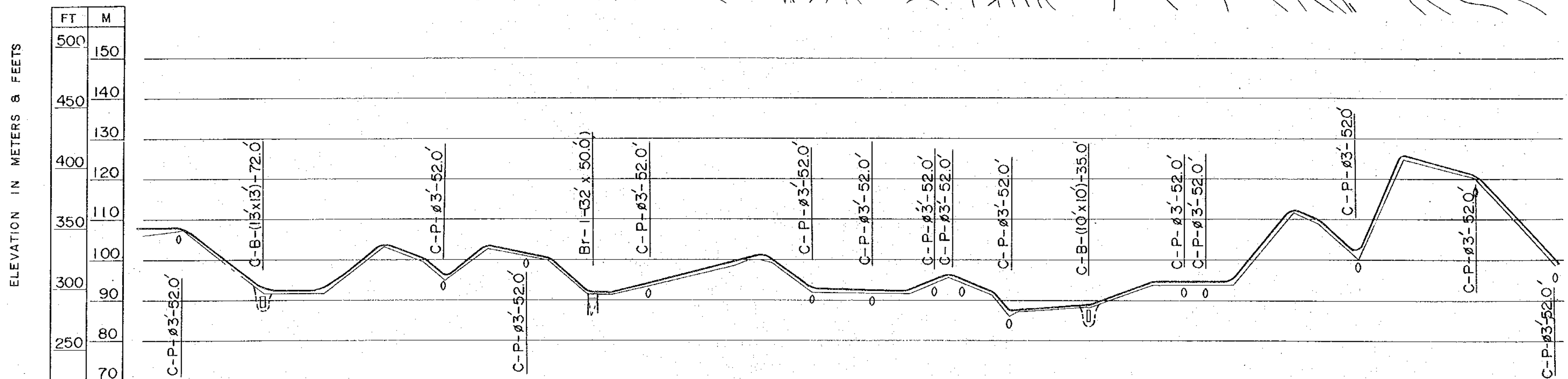
DISTANCE MILES: 27 | 28 | 29 | 30

DISTANCE KILOMETERS: 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49

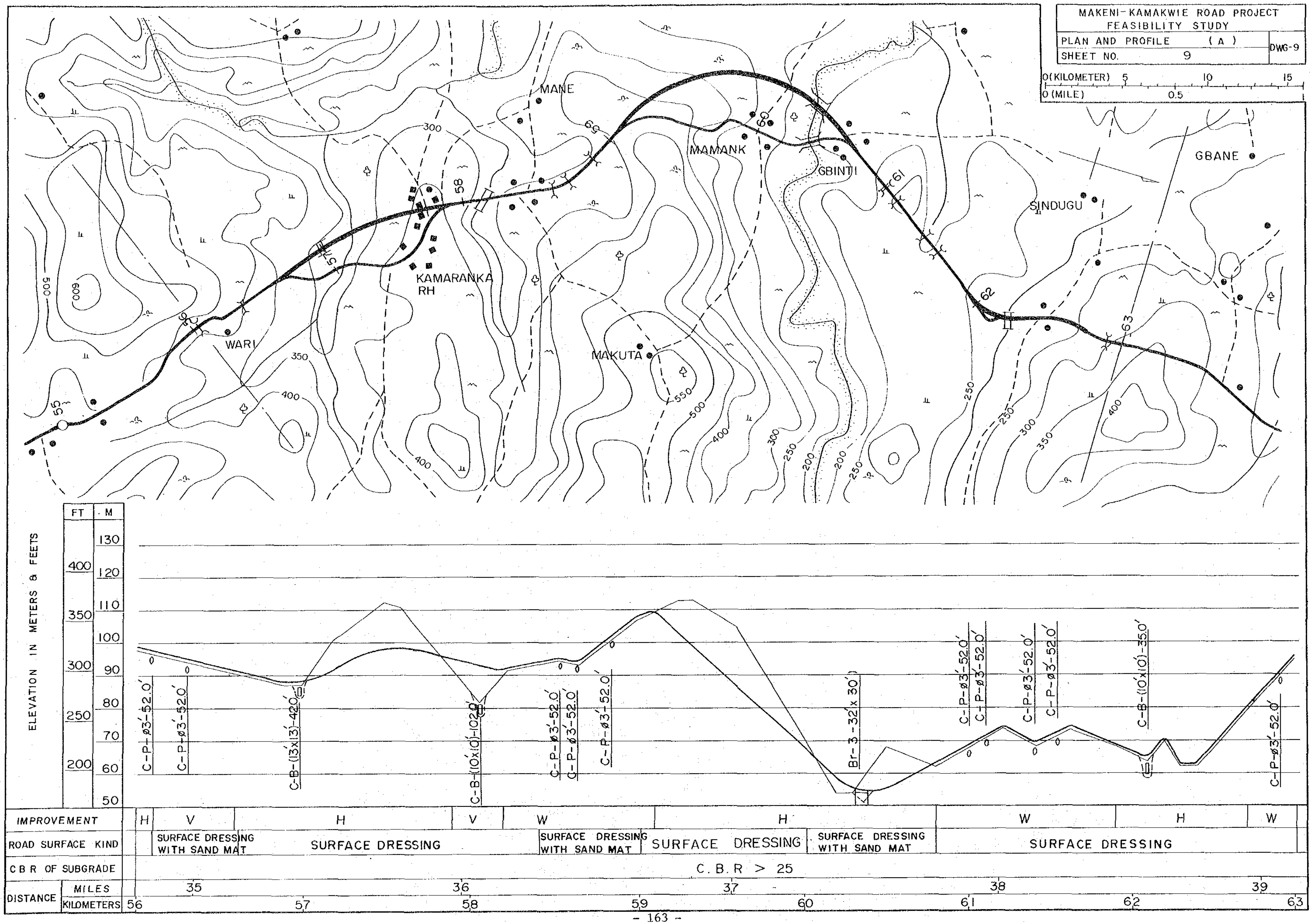
MAKENI–KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(A)	DWG-8
SHEET NO.	8	



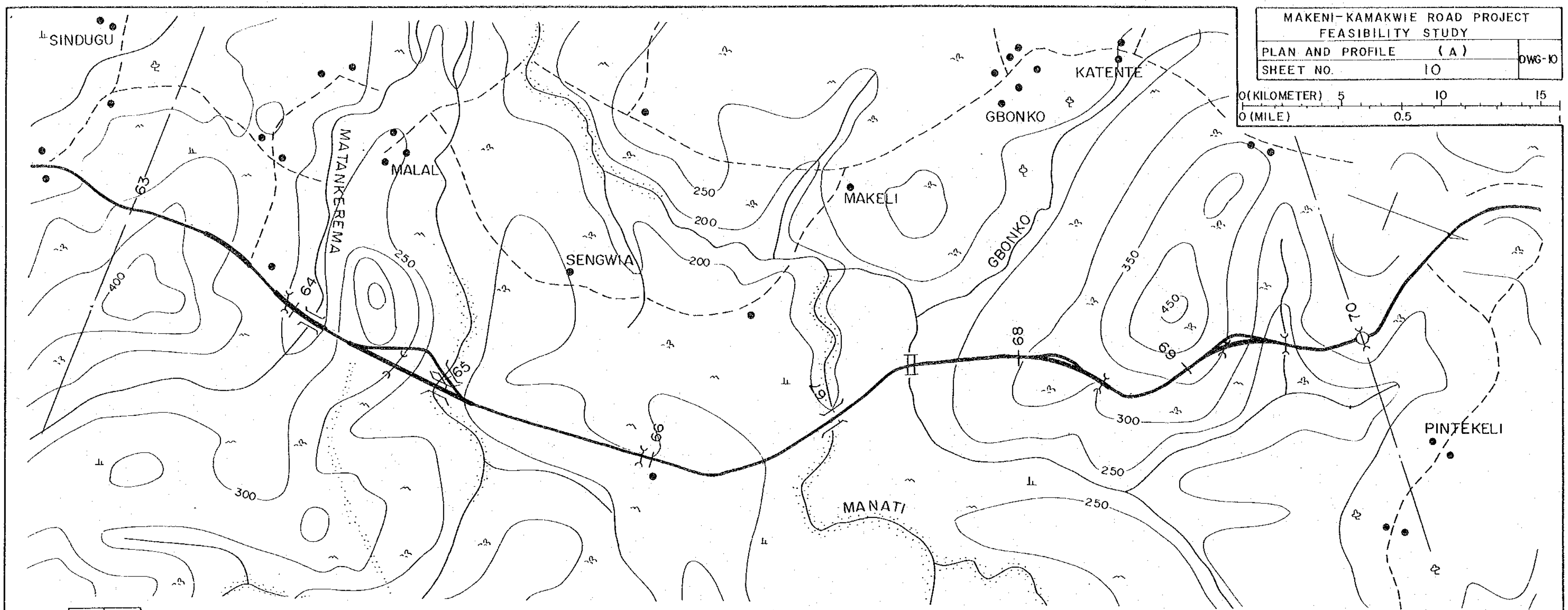


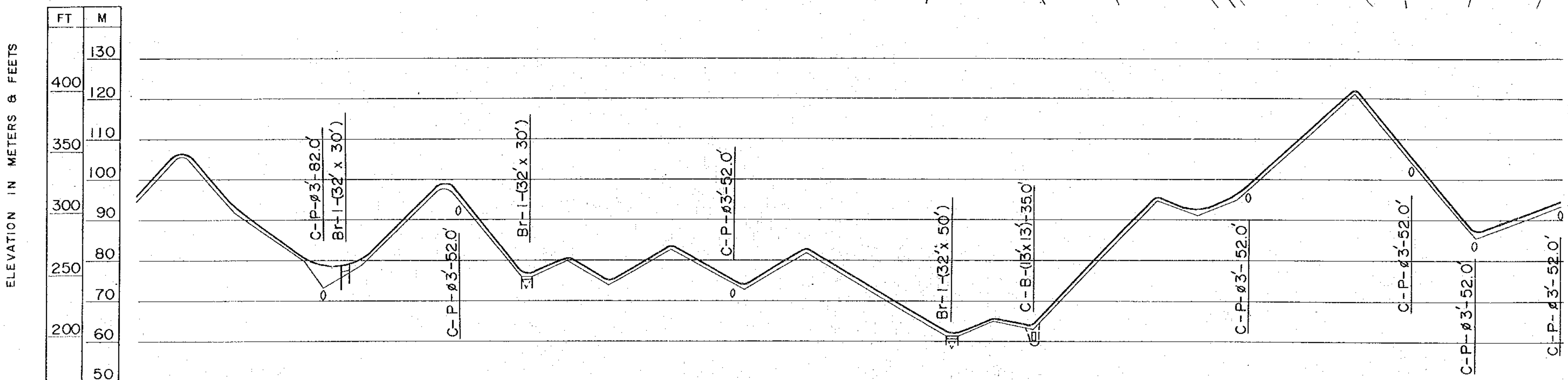
IMPROVEMENT	W · H · W · H · W · H · W · H · W · H · W · H · W · H · W · H
ROAD SURFACE KIND	SURFACE DRESSING · SURFACE DRESSING WITH SAND MAT · SURFACE DRESSING · SURFACE DRESSING WITH SAND MAT · SURFACE DRESSING
C B R OF SUBGRADE	C.B.R > 25
DISTANCE MILES	31 · 32 · 33 · 34
DISTANCE KILOMETERS	49 · 50 · 51 · 52 · 53 · 54 · 55 · 56


MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY
PLAN AND PROFILE (A)
SHEET NO. 9
DWG-9
0 (KILOMETER) 5 10 15
0 (MILE) 0.5
MANE
MAMANK
GBINTI
GBANE
SINDUGU
KAMARANKA RH
WARI
MAKUTA
55
56
57
58
59
60
61
62
63
300
350
400
500
550
600
250
200
ELEVATION IN METERS & FEETS
FT
M
130
400
120
110
350
100
300
90
80
250
70
200
60
50
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-B-(13'x13')-42.0'
C-B-(10'x10')-102.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
Br-3-32'x 30'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-B-(10'x10')-35.0'
C-P-ø3'-52.0'
IMPROVEMENT
H
V
H
V
W
H
W
H
W
ROAD SURFACE KIND
SURFACE DRESSING WITH SAND MAT
SURFACE DRESSING
SURFACE DRESSING WITH SAND MAT
SURFACE DRESSING
SURFACE DRESSING WITH SAND MAT
SURFACE DRESSING
CBR OF SUBGRADE
C.B.R > 25
DISTANCE
MILES
35
36
37
38
39
KILOMETERS
56
57
58
59
60
61
62
63

MAKENI–KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(A)	DWG-10
SHEET NO.	10	

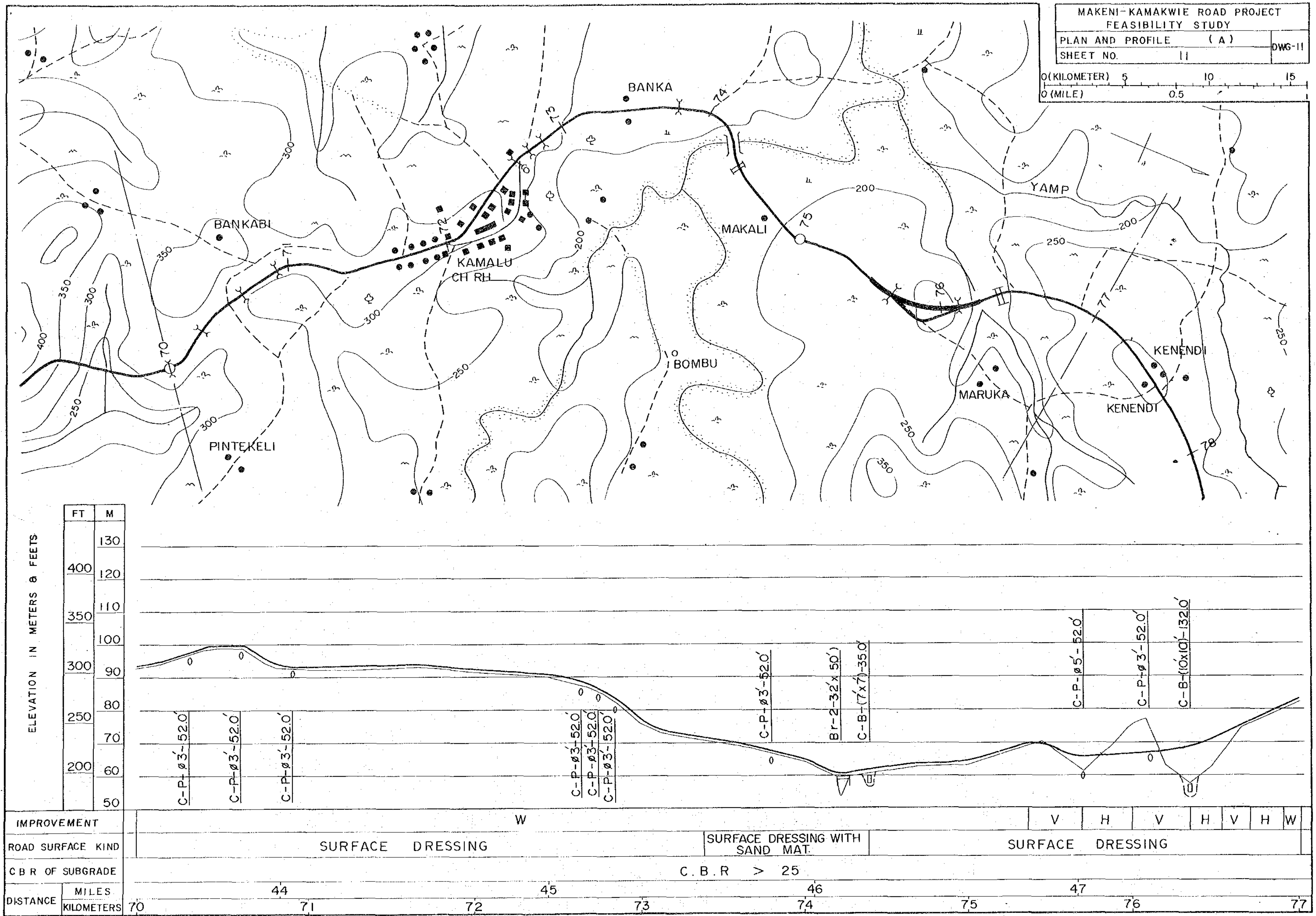




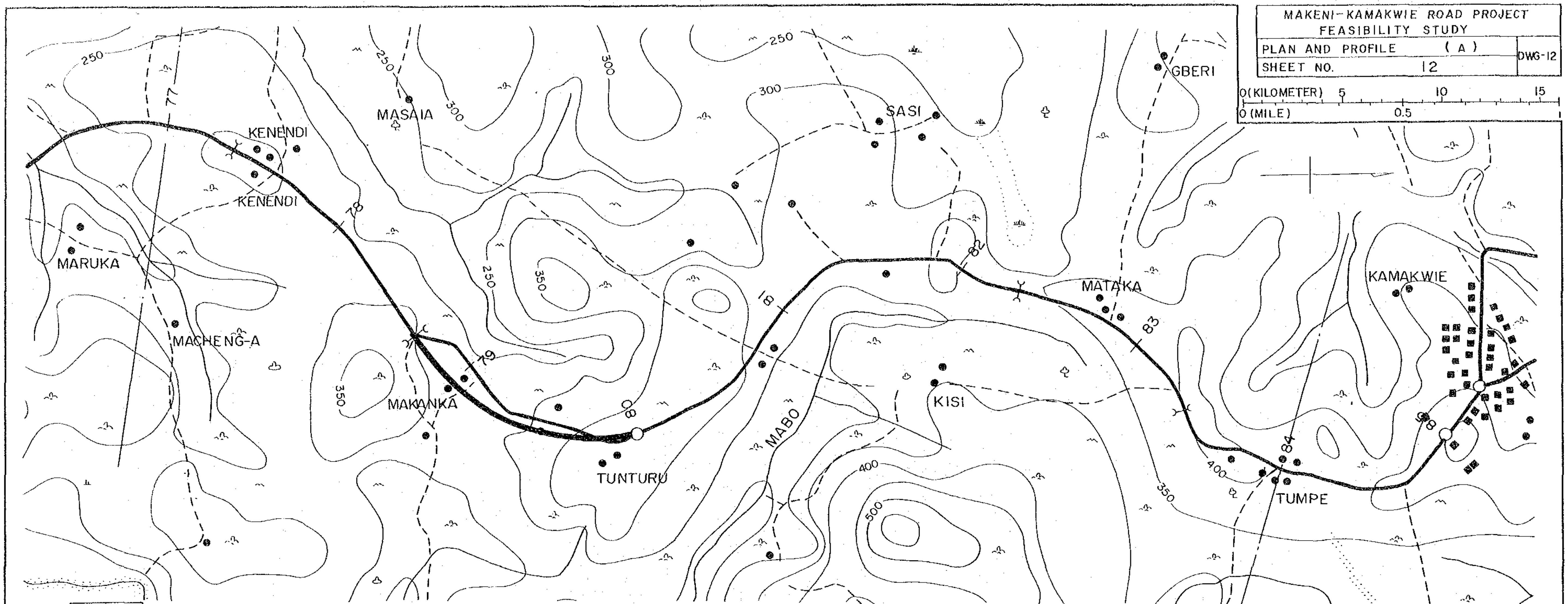
IMPROVEMENT	W, H, W, H, W, H, W, H, W, H, W
ROAD SURFACE KIND	SURFACE DRESSING / SURFACE DRESSING WITH SAND MAT / SURFACE DRESSING / SURFACE DRESSING WITH SAND MAT / SURFACE DRESSING
C B R OF SUBGRADE	C.B.R > 25
DISTANCE — MILES	40, 41, 42, 43
DISTANCE — KILOMETERS	63, 64, 65, 66, 67, 68, 69, 70

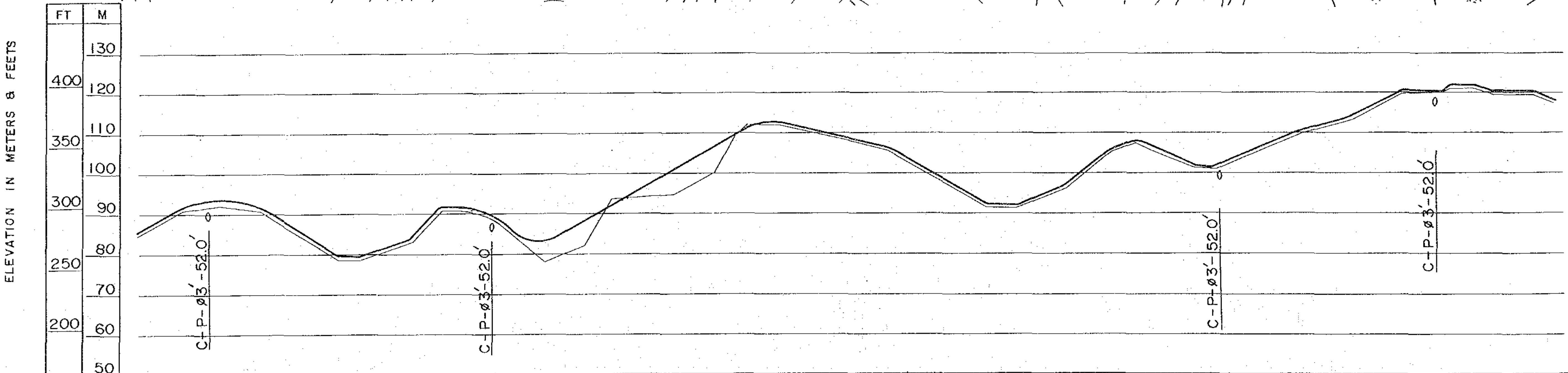
MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(A)	DWG-11
SHEET NO.	11	



MAKENI-KAMAKWIE ROAD PROJECT FEASIBILITY STUDY	
PLAN AND PROFILE (A)	DWG-12
SHEET NO. 12	



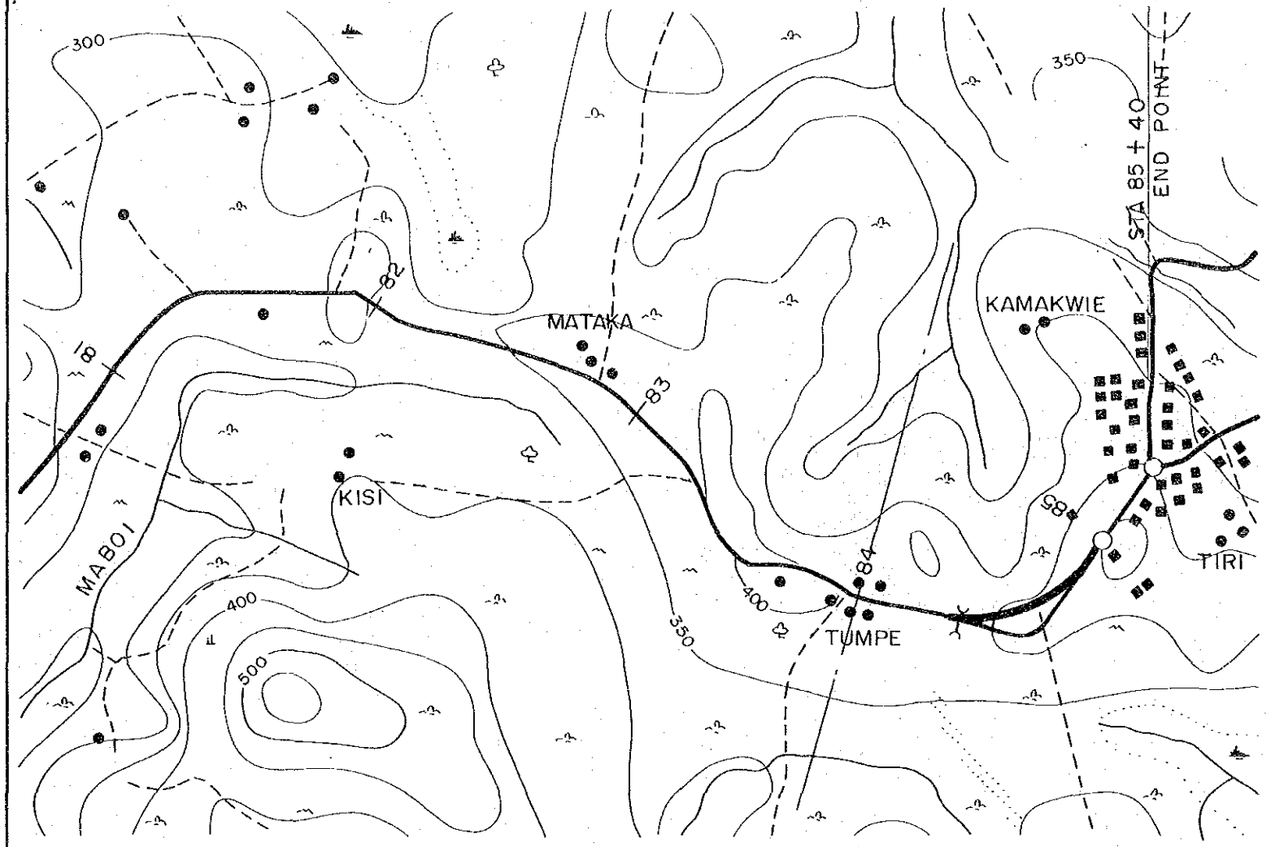


IMPROVEMENT	W	H	W	H	W
ROAD SURFACE KIND	SURFACE DRESSING		SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	
C B R OF SUBGRADE	C.B.R > 25				
DISTANCE MILES	48	49	50	51	52
DISTANCE KILOMETERS	77	78	79	80	81	82	83	84

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

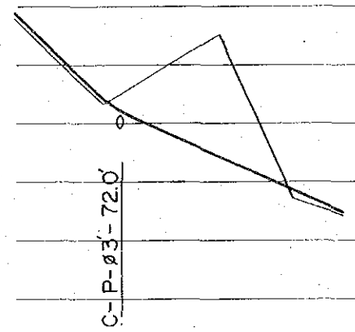
PLAN AND PROFILE	(A)	DWG-13
SHEET NO.	13	

0(KILOMETER) 5 10 15
0 (MILE) 0.5 1



ELEVATION IN METERS & FEETS

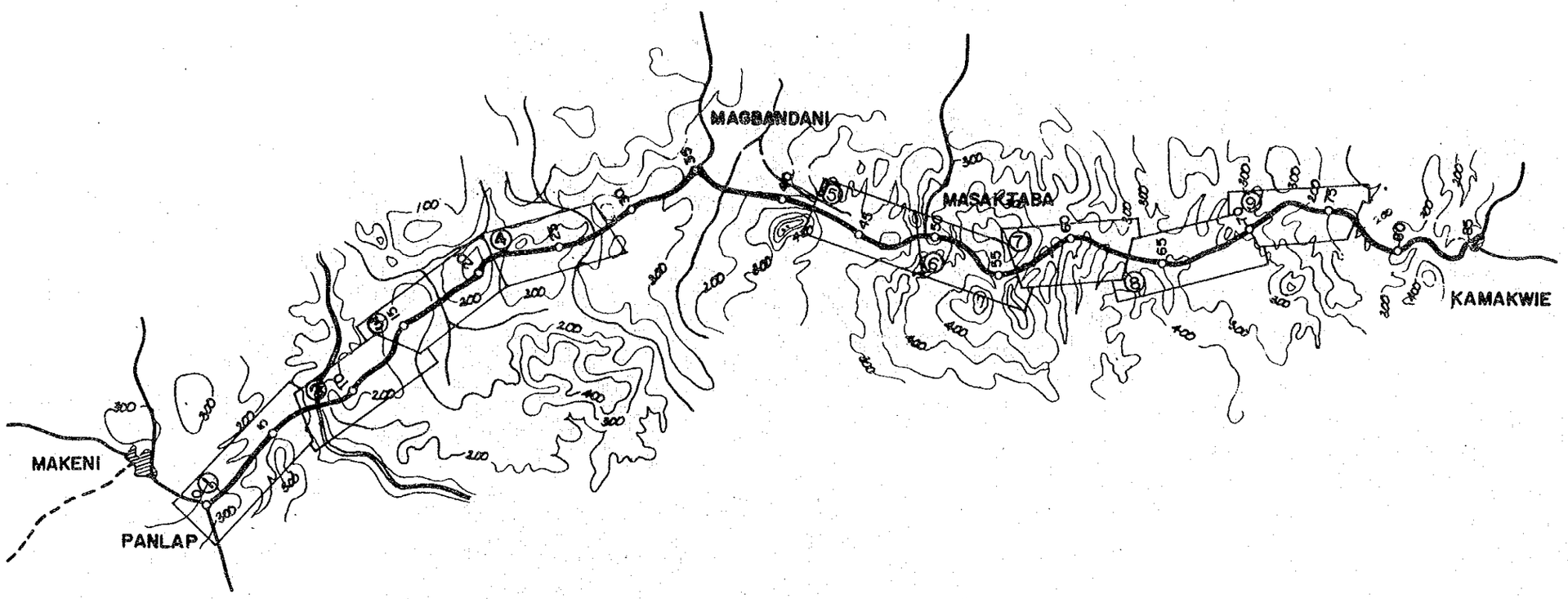
FT	M
	130
400	120
	110
350	100
	90
300	80
	70
250	60
	50
200	



IMPROVEMENT		W	H	W
ROAD SURFACE KIND		SURFACE DRESSING		
C B R OF SUBGRADE		C.B.R > 25		
DISTANCE	MILES			
	KILOMETERS	84	85	

APPENDIX S－2　代替案Ｂの平面図と縦断図

MAKENI - KAMAKWIE ROAD PROJECT FEASIBILITY STUDY	
COVER SHEET (B)	DWG-
SHEET NO.	



ABBREVIATIONS

H	RE-ALIGNMENT, HORIZONTAL FOR ROAD IMPROVEMENT
V	RE-ALIGNMENT, VERTICAL FOR ROAD IMPROVEMENT
W	WIDENING OF ROAD WIDTH FOR ROAD IMPROVEMENT
C - P - ϕa - ℓ	PROPOSED PIPE CULVERT, ϕa (DIAMETER, FOOT), ℓ (LENGTH,FOOT)
C - B (a x b) - ℓ	PROPOSED BOX CULVERT, a x b (WIDTH x LENGTH ALONG THE ROAD), ℓ (CULVERT LENGTH)
C - B - n(a x b) - ℓ	PROPOSED BOX CULVERT, n (ROW), a x b (WIDTH x LENGTH ALONG THE ROAD), ℓ (CULVERT LENGTH)
Br - n - (a x b)	PROPOSED PRESTRESSED CONCRETE BRIDGE, n (NOS. OF SPAN), a x b (WIDTH x SPAN LENGTH)

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (B) DWG-14

SHEET NO. 1

0(KILOMETER) 5 10 15

0 (MILE) 0.5

TO MAKENI

STATION 0+00 BEGINNING POINT

STAGE 2

PANLAP

TO KABALA

YELISANDA

MAFONIKE

KAGBORO

MAKAPR

YONI

MABUSHE-NE

WARI

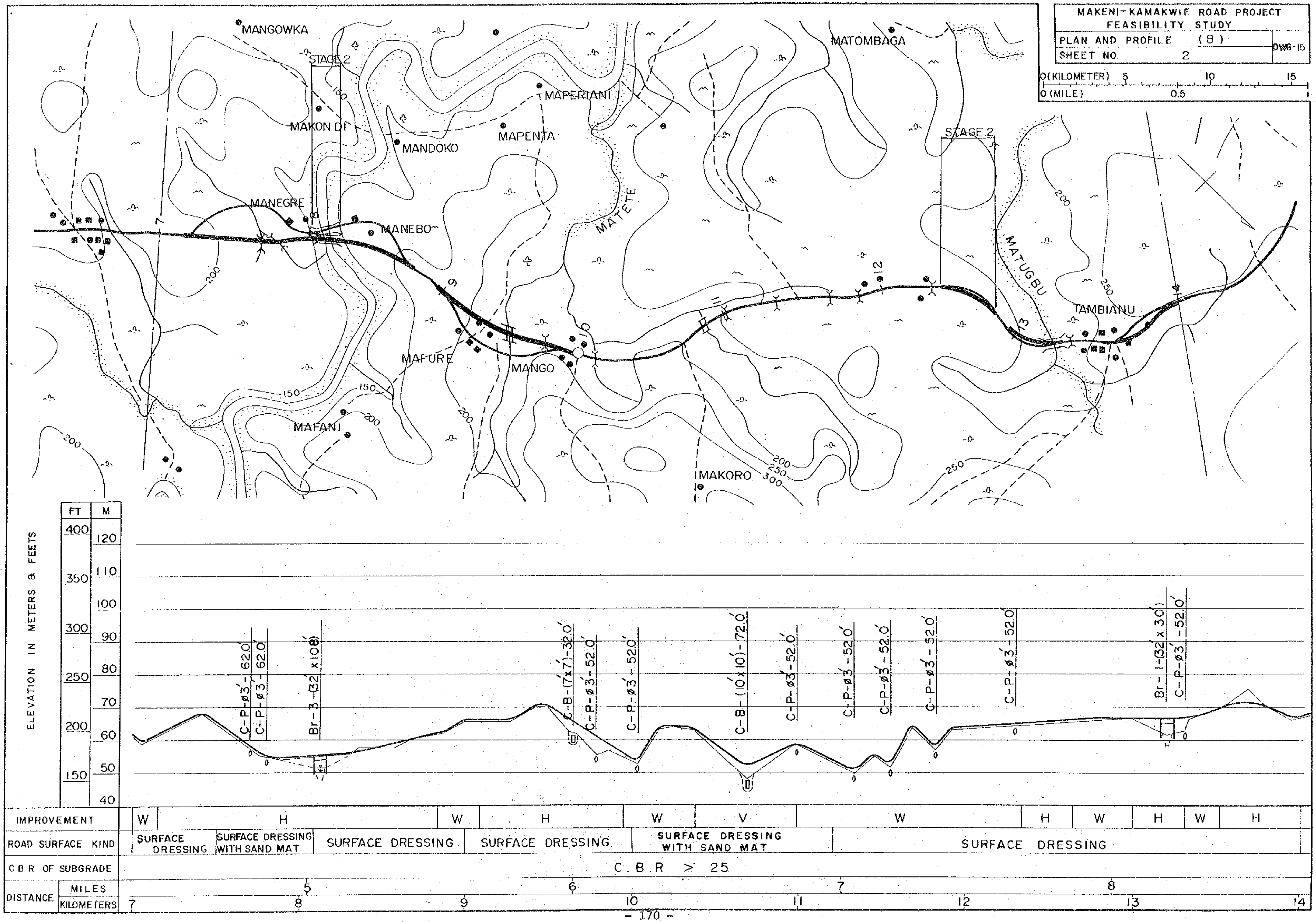
MISSION KUNAHU

ELEVATION IN METERS & FEETS

FT	M
400	120
350	110
300	90
250	80
200	60
150	50
	40

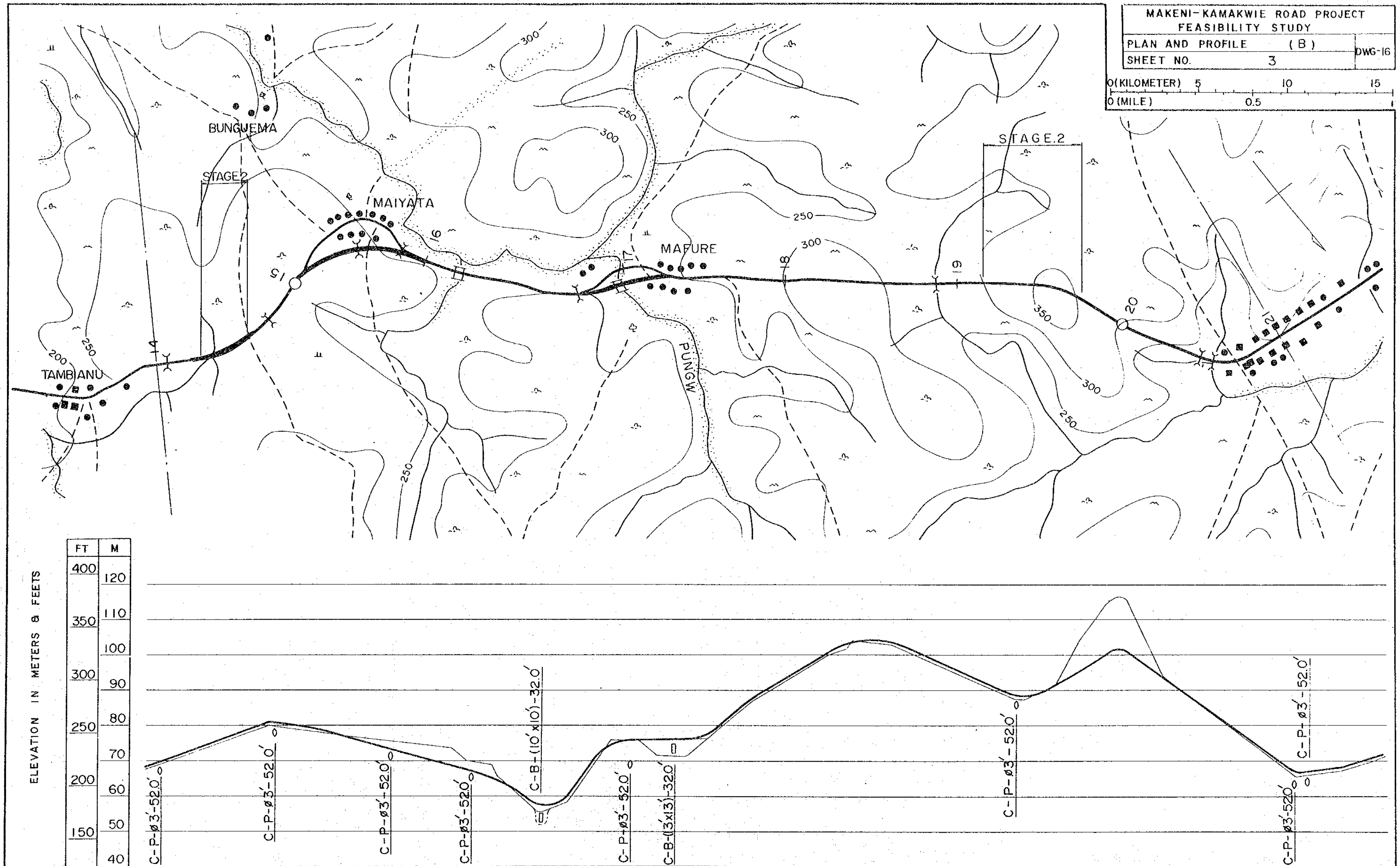
C-P-ø3'-52.0' | C-P-ø3'-52.0' | C-P-ø3'-52.0' | C-P-ø3'-52.0' | C-P-ø3'-52.0' | C-B-(7x7')-82.0' | C-P-ø3'-52.0' | C-P-ø3'-52.0' | C-P-ø3'-52.0' | C-B-2(10x10')-32.0' | C-P-ø3'-52.0' | Br-II-(32' x 30') | C-P-ø3'-52.0' | C-P-ø3'-72.0' | C-P-ø3'-62.0'

IMPROVEMENT	W	V	W	V	W	H	W	H	V						
ROAD SURFACE KIND	SURFACE DRESSING		SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING		SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING		SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING					
C B R OF SUBGRADE	C . B . R > 25														
DISTANCE MILES	0				2			3			4				
DISTANCE KILOMETERS	0	1	2	3	4	5	6	7							


MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY
PLAN AND PROFILE (B)
SHEET NO. 2
DWG-15
0 (KILOMETER) 5 10 15
0 (MILE) 0.5
MANGOWKA
STAGE 2
MAKON DI
MANDOKO
MAPERIANI
MAPENTA
MATOMBAGA
MANEGRE
MANEBO
MATETE
MATUGBU
MAFURE
MANGO
TAMBIANU
MAFANI
MAKORO
150
200
250
300
ELEVATION IN METERS & FEETS
FT
M
400
350
300
250
200
150
120
110
100
90
80
70
60
50
40
C-P-ø3'-62.0'
C-P-ø3'-62.0'
Br-3-(32' x108')
C-B-(7'x7')-32.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-B-(10'x10')-72.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
Br-1-(32' x 30')
C-P-ø3'-52.0'
IMPROVEMENT
W
H
W
H
W
V
W
H
W
H
W
H
ROAD SURFACE KIND
SURFACE DRESSING
SURFACE DRESSING WITH SAND MAT
SURFACE DRESSING
SURFACE DRESSING
SURFACE DRESSING WITH SAND MAT
SURFACE DRESSING
C B R OF SUBGRADE
C.B.R > 25
DISTANCE
MILES
5
6
7
8
KILOMETERS
7
8
9
10
11
12
13
14

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (B)	DWG-16
SHEET NO. 3	



IMPROVEMENT	W	H	W	H	W	H	W	V	W	V	W

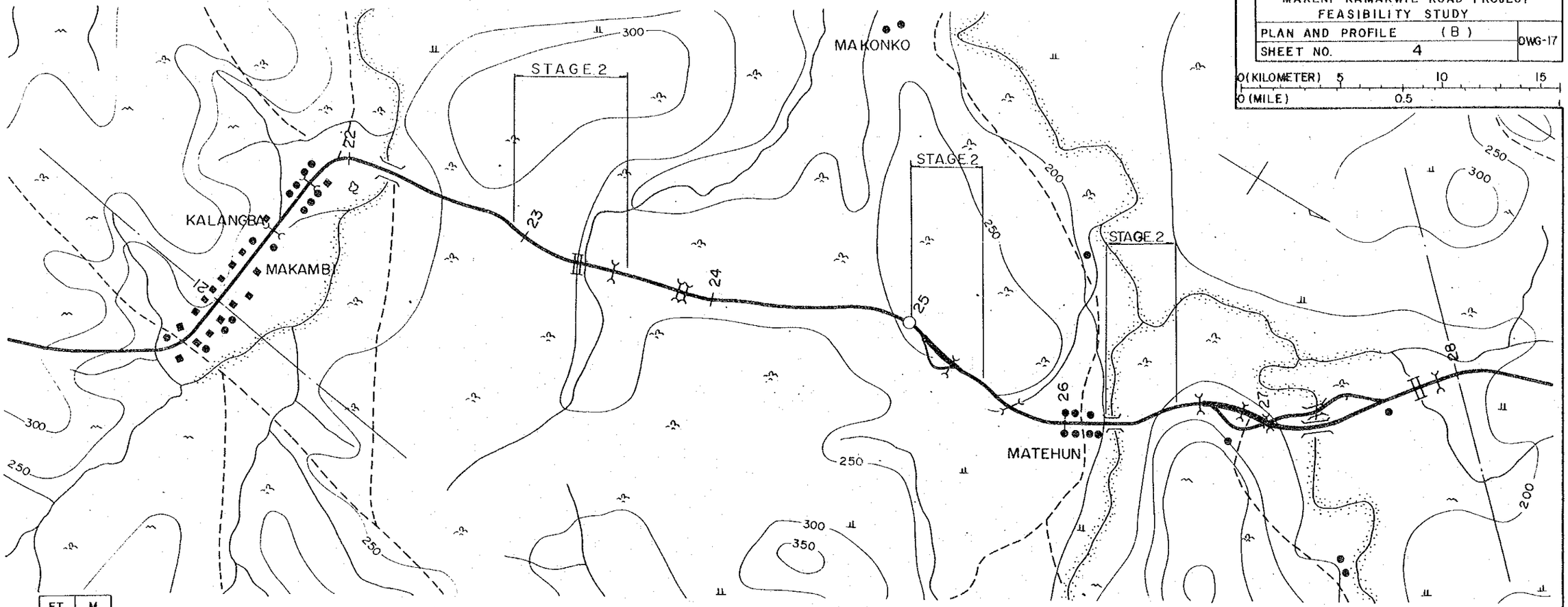
ROAD SURFACE KIND	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING

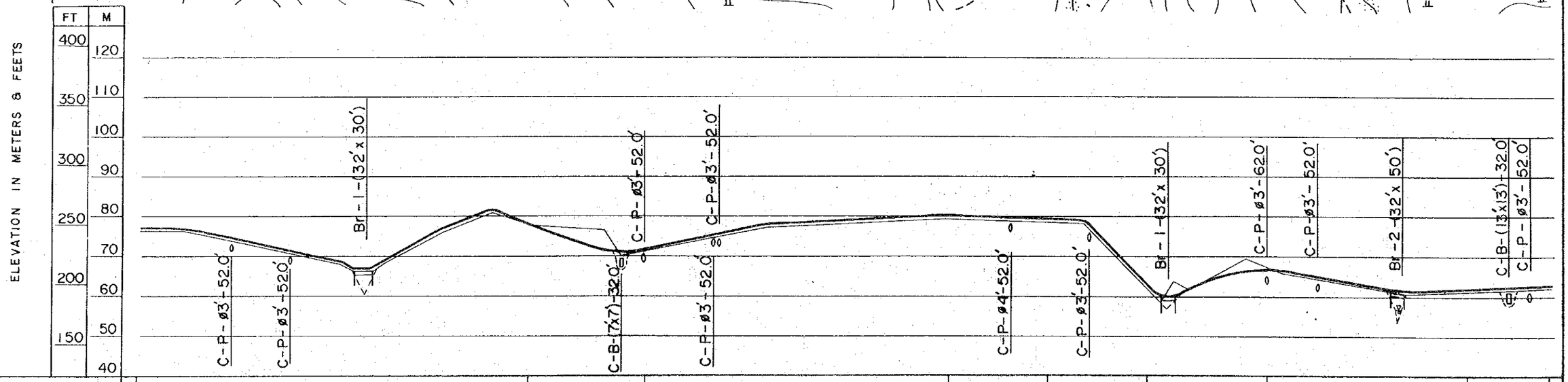
C B R OF SUBGRADE	C.B.R > 25
DISTANCE — MILES	9 · 10 · 11 · 12 · 13
DISTANCE — KILOMETERS	14 · 15 · 16 · 17 · 18 · 19 · 20 · 21

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(B)	DWG-17
SHEET NO.	4	

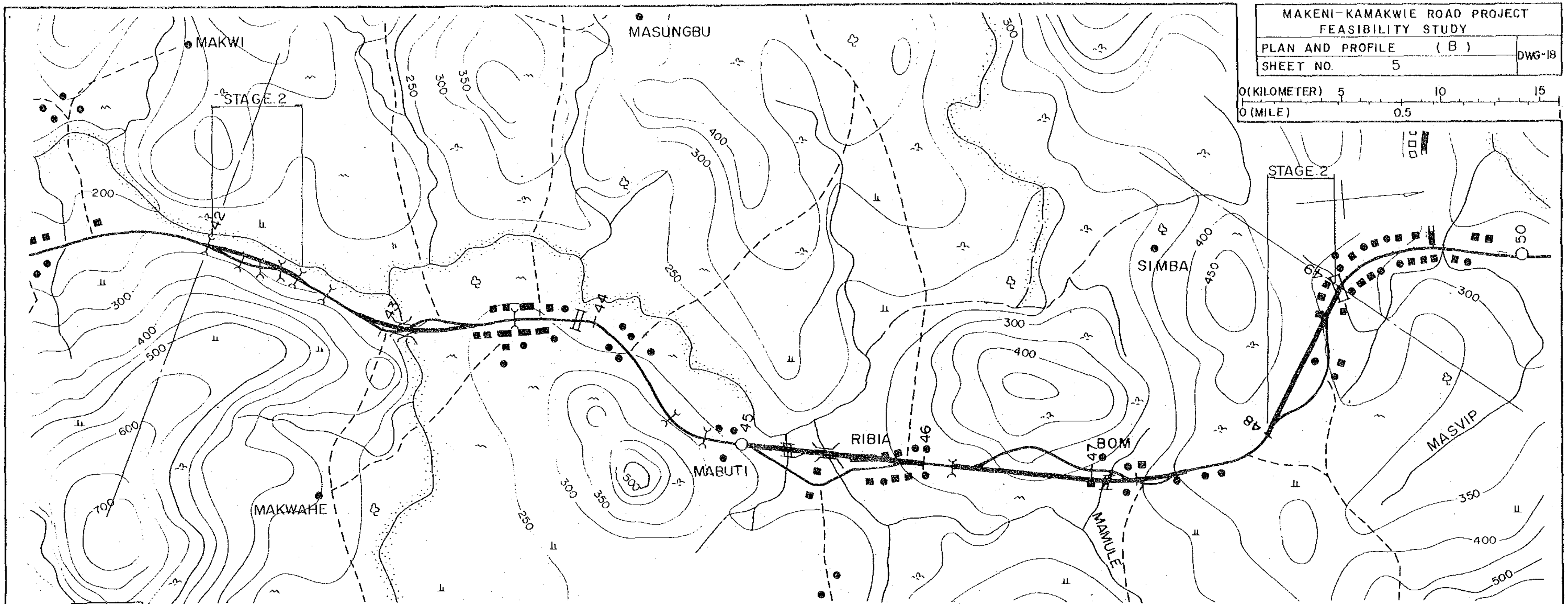
0 (KILOMETER) 5 10 15
0 (MILE) 0.5

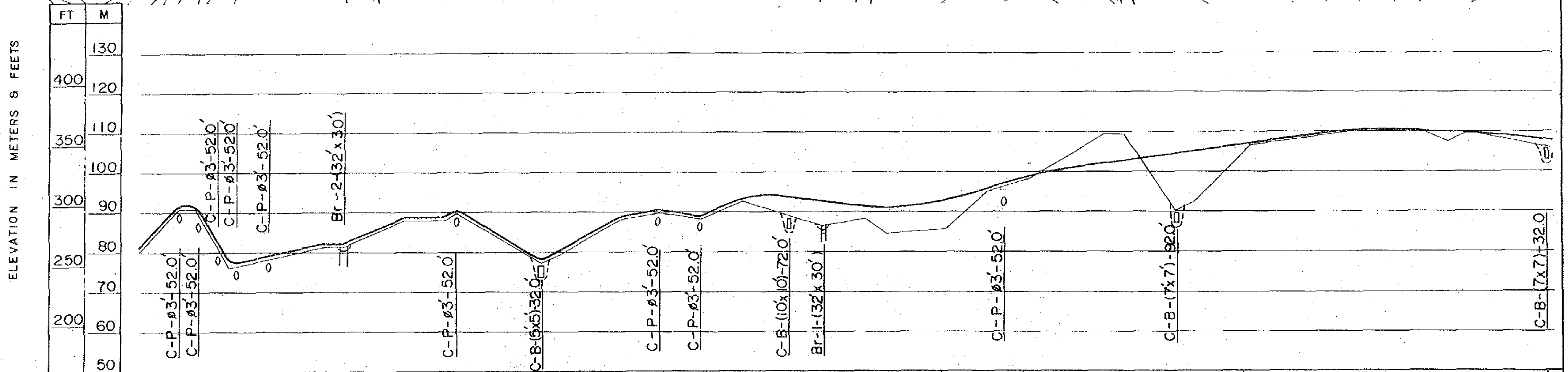




IMPROVEMENT		W		V	W		H	W		V	H		W					
ROAD SURFACE KIND		SURFCE DRESSING		SAFACE DRESSING WITH SAND MAT	SURFACE DRESSING			SURFACE DRESSING WITH SAND MAT		SURFACE DRESSING								
C B R OF SUBGRADE		C.B.R > 25																
DISTANCE	MILES	14			15			16			17							
	KILOMETERS	21	22	23	24	25	26	27	28									

MAKENI-KAMAKWIE ROAD PROJECT FEASIBILITY STUDY	
PLAN AND PROFILE (B)	DWG-18
SHEET NO. 5	





IMPROVEMENT	H	W	H	W	H	W	H	W	H
ROAD SURFACE KIND	SURFACE DRESSING					SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING
C B R OF SUBGRADE	C. B. R > 25								
DISTANCE MILES	27	28	29	30					
DISTANCE KILOMETERS	42	43	44	45	46	47	48	49	

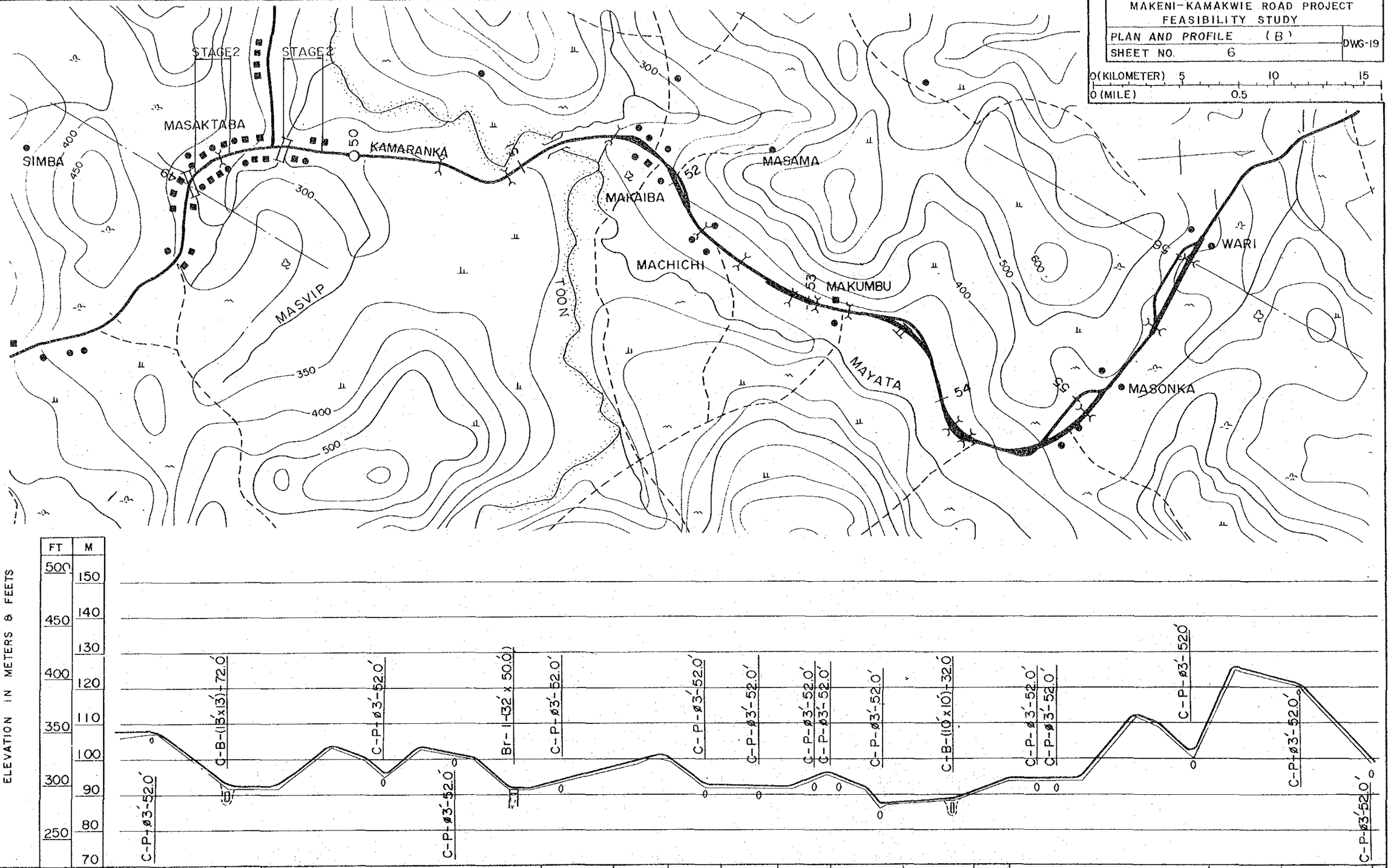
MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (B') DWG-19

SHEET NO. 6

0(KILOMETER) 5 10 15

0 (MILE) 0.5



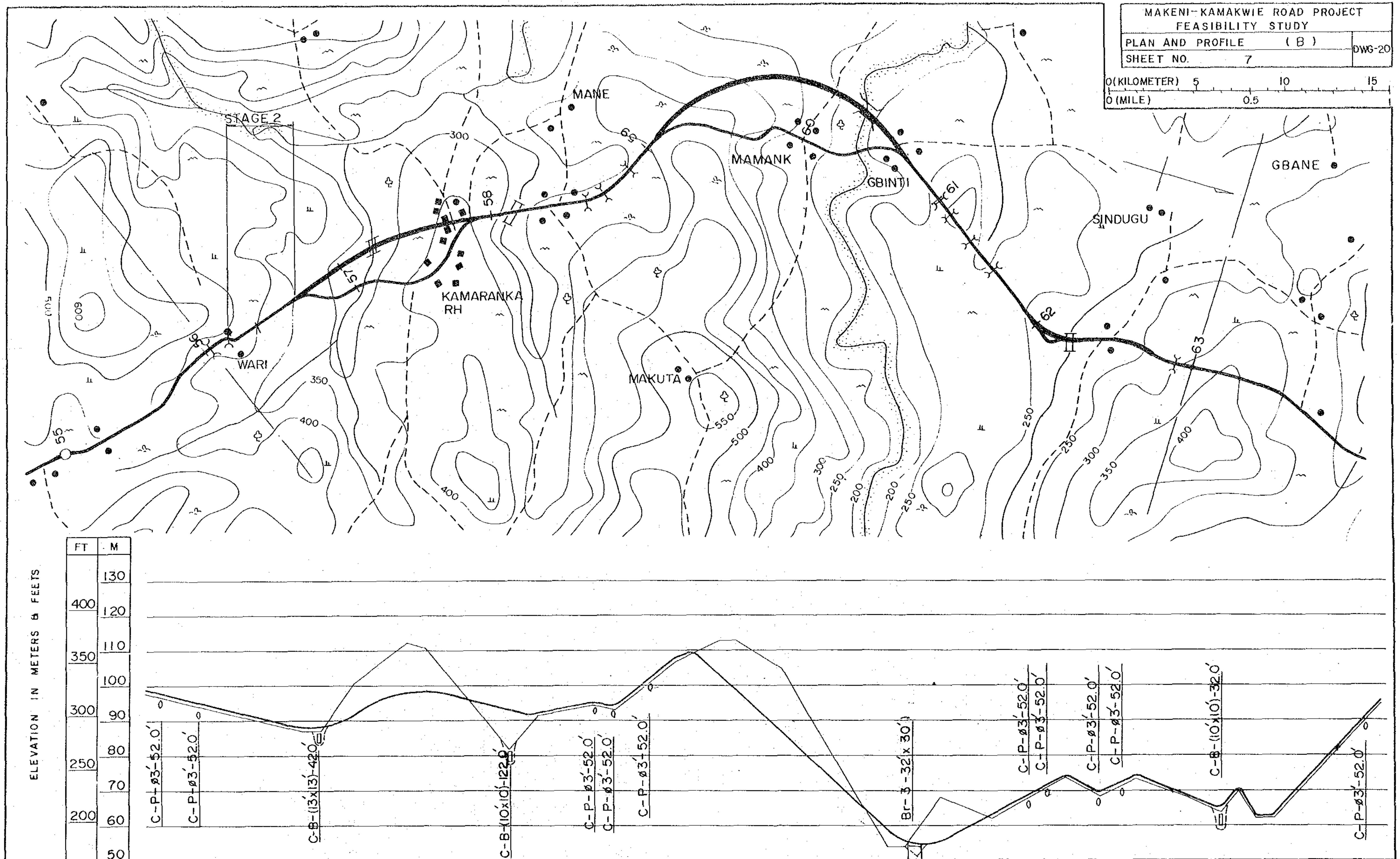
ELEVATION IN METERS & FEETS

FT	M
500	150
450	140
	130
400	120
	110
350	100
	90
300	80
250	70

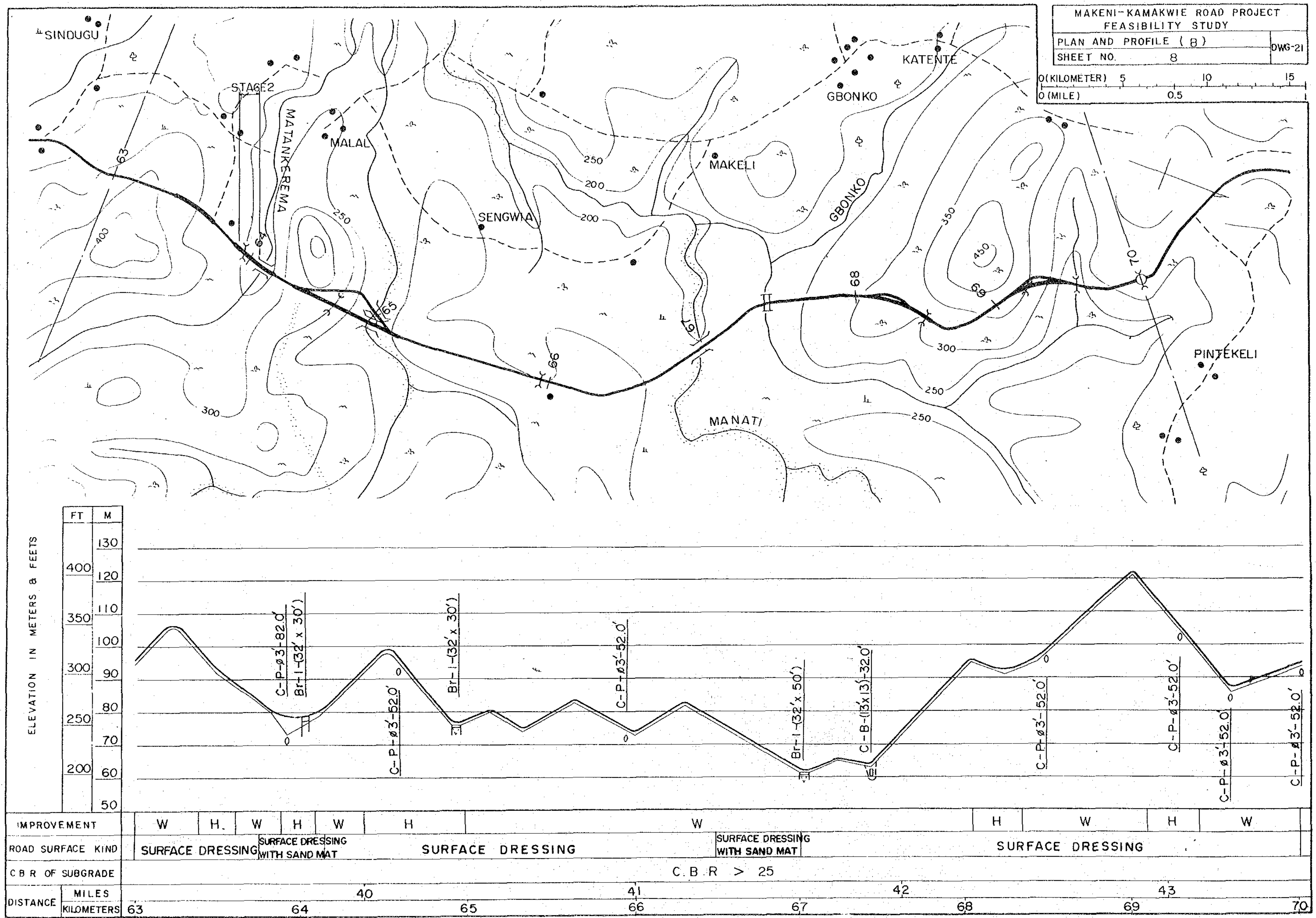
C-P-Ø3'-52.0'
C-B-(13'x13')-72.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
Br-1-32' x 50.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-B-(10'x10')-32.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'
C-P-Ø3'-52.0'

IMPROVEMENT		W	H	W	H	W			H	W	H	W	H	W	H	W	H		W	H			
ROAD SURFACE KIND		SURFACE DRESSING				SURFACE DRESSING WITH SAND MAT			SURFACE DRESSING			SURFACE DRESSING WITH SAND MAT			SURFACE DRESSING								
C B R OF SUBGRADE		C.B.R > 25																					
DISTANCE	MILES					31				32				33				34					
	KILOMETERS	49				50				51				52				53				54	55	56

MAKENI–KAMAKWIE ROAD PROJECT FEASIBILITY STUDY	
PLAN AND PROFILE (B)	DWG-20
SHEET NO. 7	

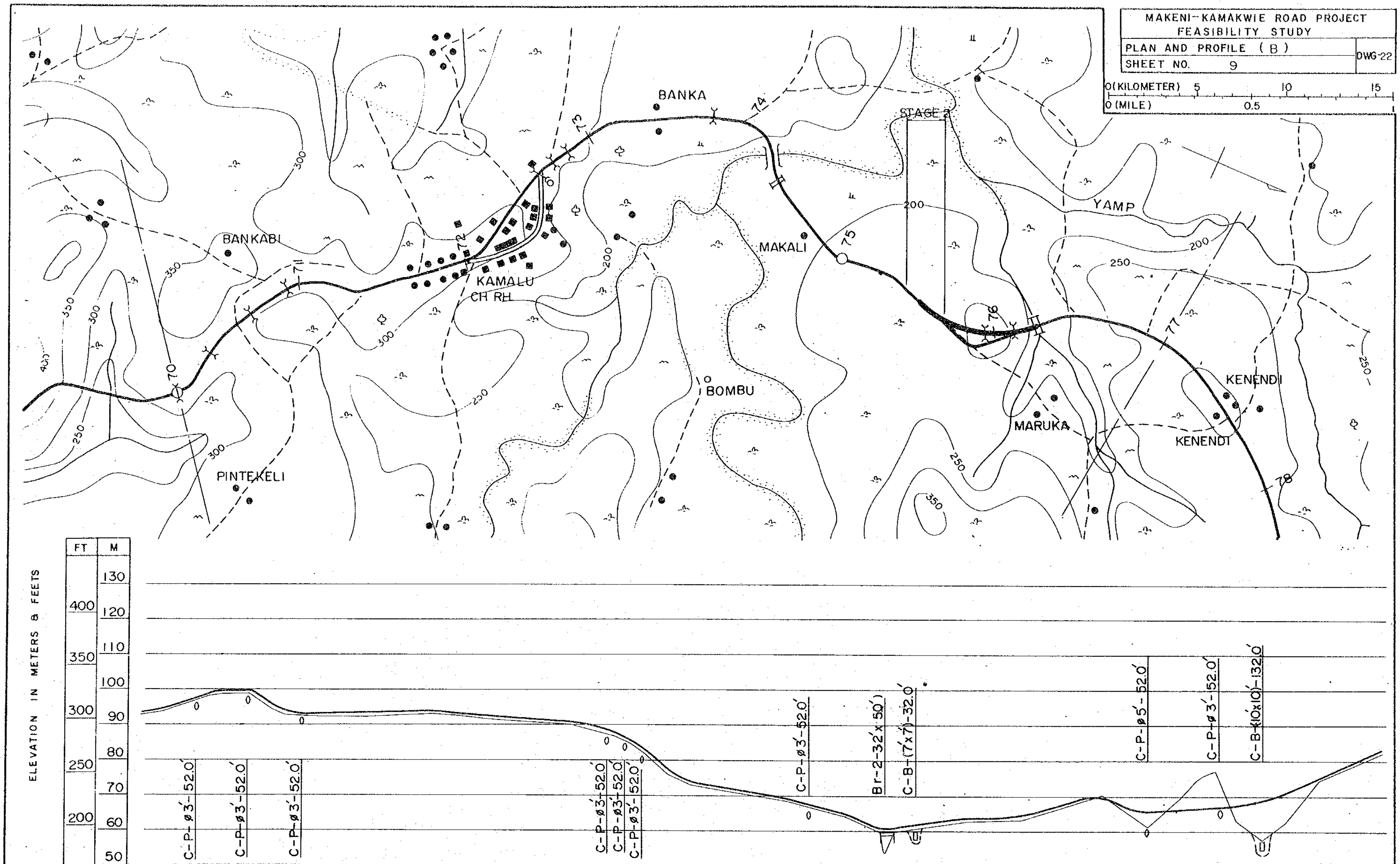


IMPROVEMENT		H	V	H	V	W	H	W	H	W
ROAD SURFACE KIND			SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING		SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	SURFACE DRESSING WITH SAND MAT	SURFACE DRESSING	
C B R OF SUBGRADE		C. B. R > 25								
DISTANCE	MILES	35	36	37	38	39				
	KILOMETERS	56	57	58	59	60	61	62	63	


MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY
PLAN AND PROFILE (8)
SHEET NO. 8
DWG-21
0 (KILOMETER) 5 10 15
0 (MILE) 0.5
SINDUGU
STAGE2
MATANKEREMA
MALAL
SENGWIA
MAKELI
GBONKO
KATENTE
MANATI
PINTEKELI
63
64
65
66
67
68
69
70
400
300
250
200
350
450
ELEVATION IN METERS & FEETS
FT
M
130
400
120
350
110
100
300
90
80
250
70
200
60
50
C-P-ø3'-82.0'
Br-1-(32' x 30')
C-P-ø3'-52.0'
Br-1-(32' x 30')
C-P-ø3'-52.0'
Br-1-(32' x 50')
C-B-(13'x13')-32.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
C-P-ø3'-52.0'
IMPROVEMENT
W
H.
W
H
W
H
W
H
W
H
W
ROAD SURFACE KIND
SURFACE DRESSING
SURFACE DRESSING WITH SAND MAT
SURFACE DRESSING
SURFACE DRESSING WITH SAND MAT
SURFACE DRESSING
C B R OF SUBGRADE
C.B.R > 25
DISTANCE
MILES
40
41
42
43
KILOMETERS
63
64
65
66
67
68
69
70

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

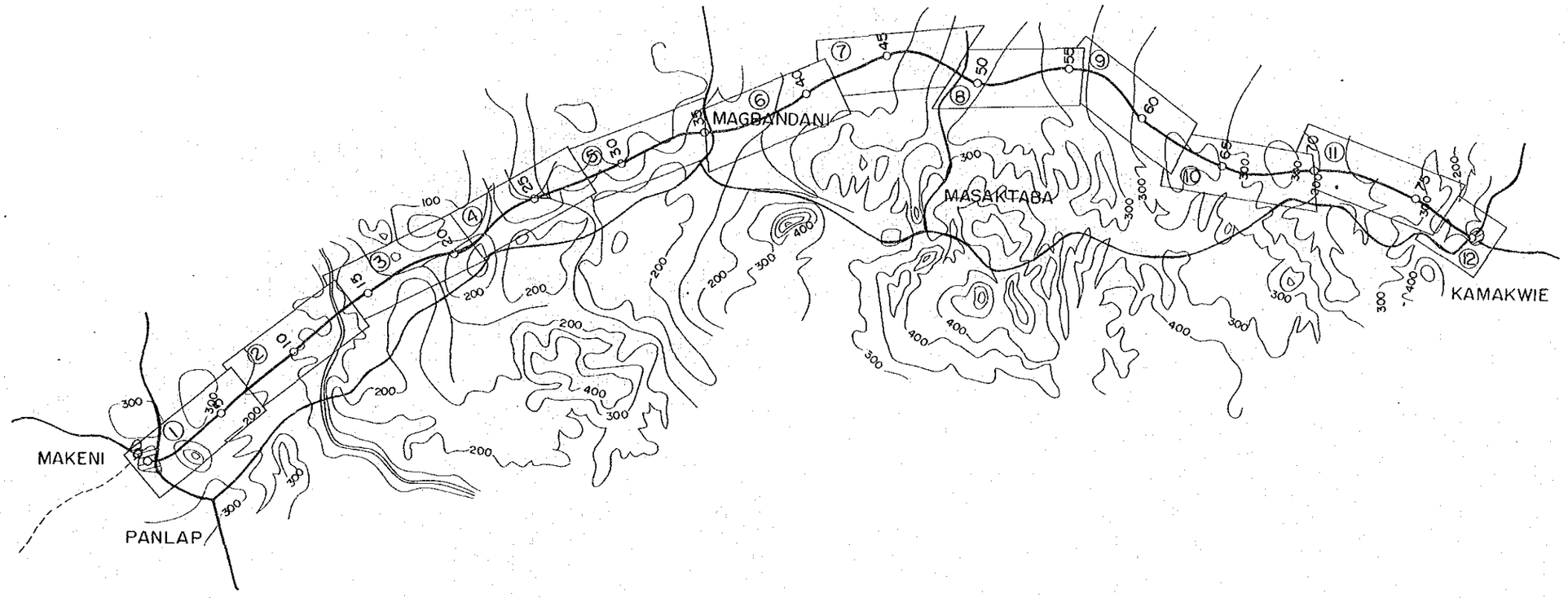
PLAN AND PROFILE (B)	DWG-22
SHEET NO. 9	



IMPROVEMENT		W / V / H / V / H / V / H / W
ROAD SURFACE KIND		SURFACE DRESSING / SURFACE DRESSING WITH SAND MAT / SURFACE DRESSING
C B R OF SUBGRADE		C.B.R > 25
DISTANCE	MILES	44 / 45 / 46 / 47
	KILOMETERS	70 / 71 / 72 / 73 / 74 / 75 / 76 / 77

APPENDIX S-3　代替案Cの平面図と縦断図

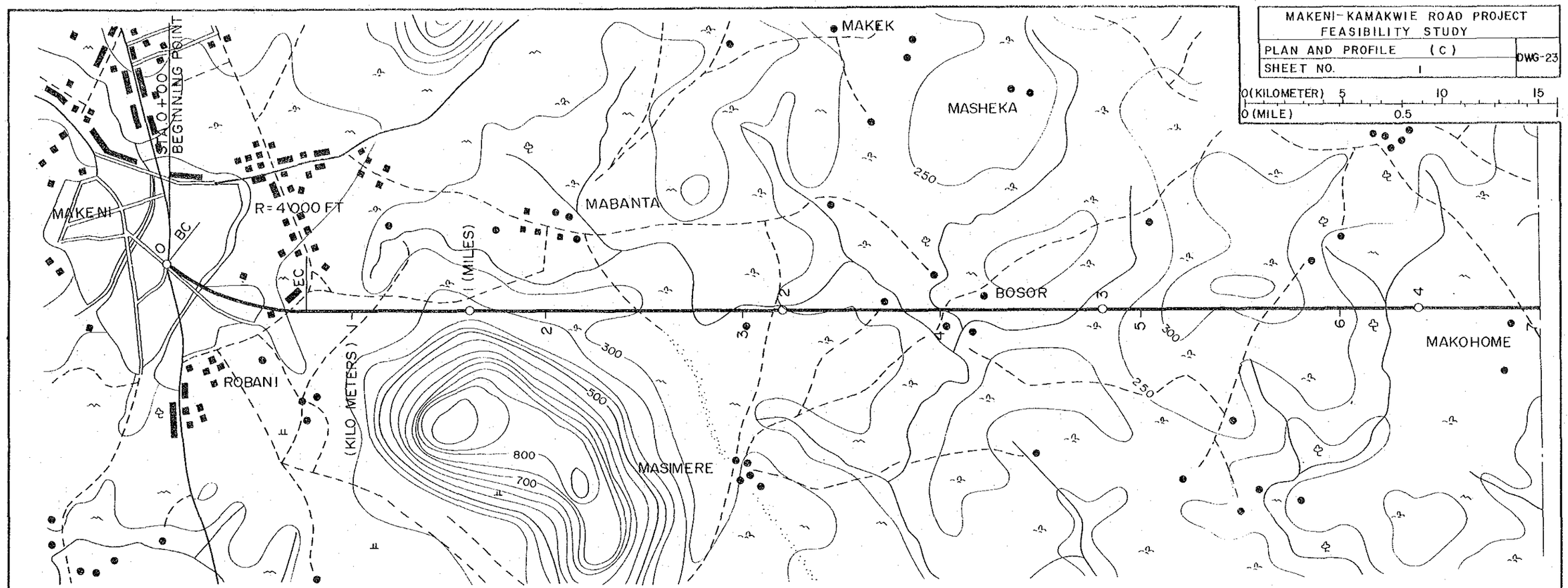
MAKENI-KAMAKWIE ROAD PROJECT FEASIBILITY STUDY	
COVER SHEET (C)	DWG-
SHEET NO.	

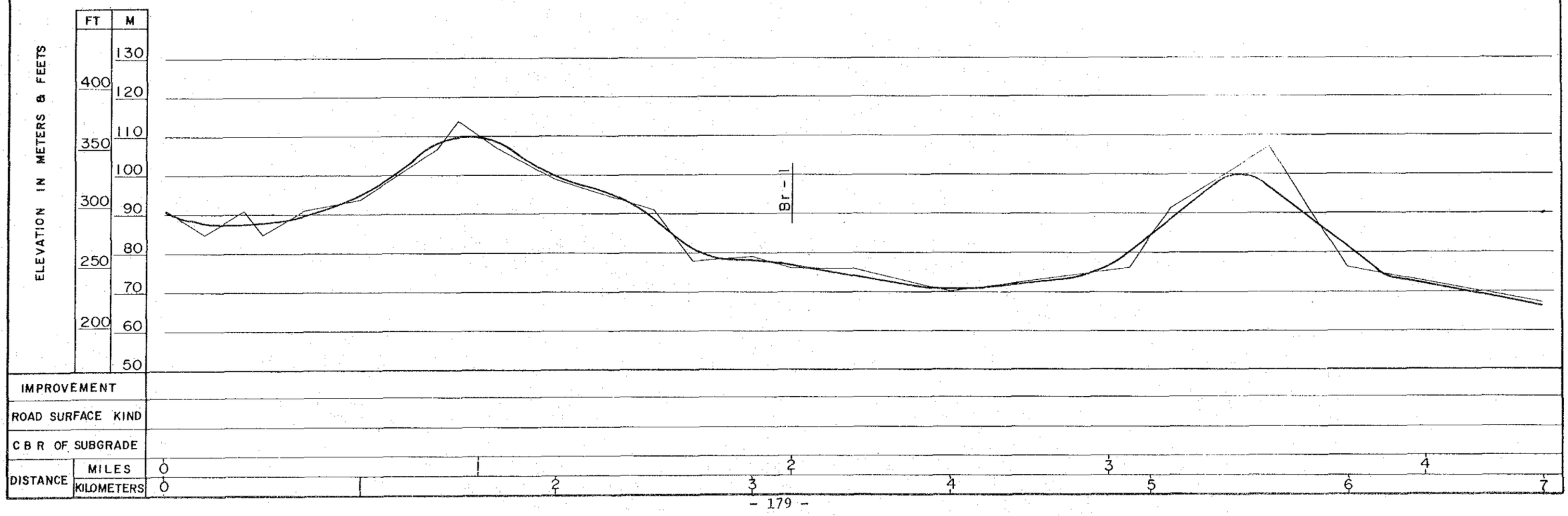


MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (C)	DWG-23
SHEET NO. 1	

0 (KILOMETER) 5 10 15
0 (MILE) 0.5



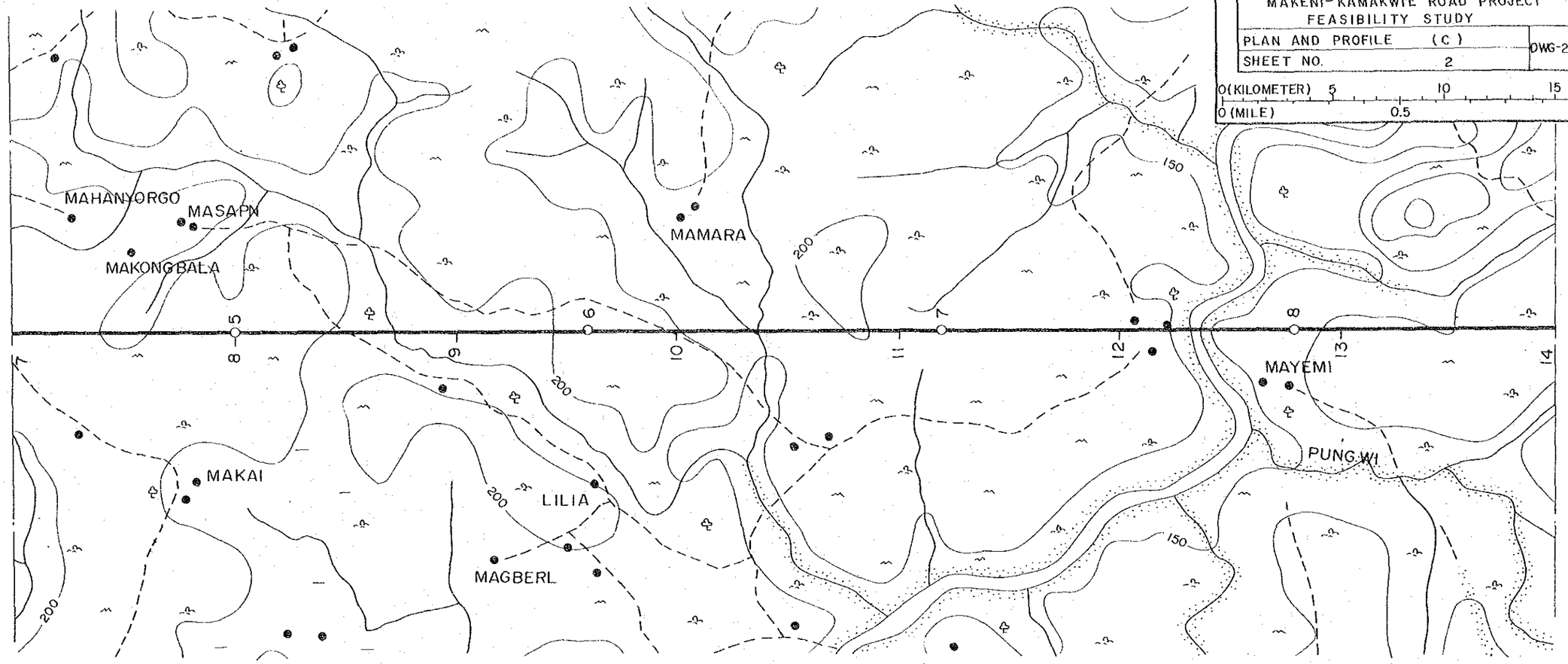


IMPROVEMENT		
ROAD SURFACE KIND		
C B R OF SUBGRADE		
DISTANCE	MILES	0 1 2 3 4
	KILOMETERS	0 2 3 4 5 6 7

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(C)	DWG-24
SHEET NO.	2	

0(KILOMETER) 5 10 15
0 (MILE) 0.5



ELEVATION IN METERS & FEETS

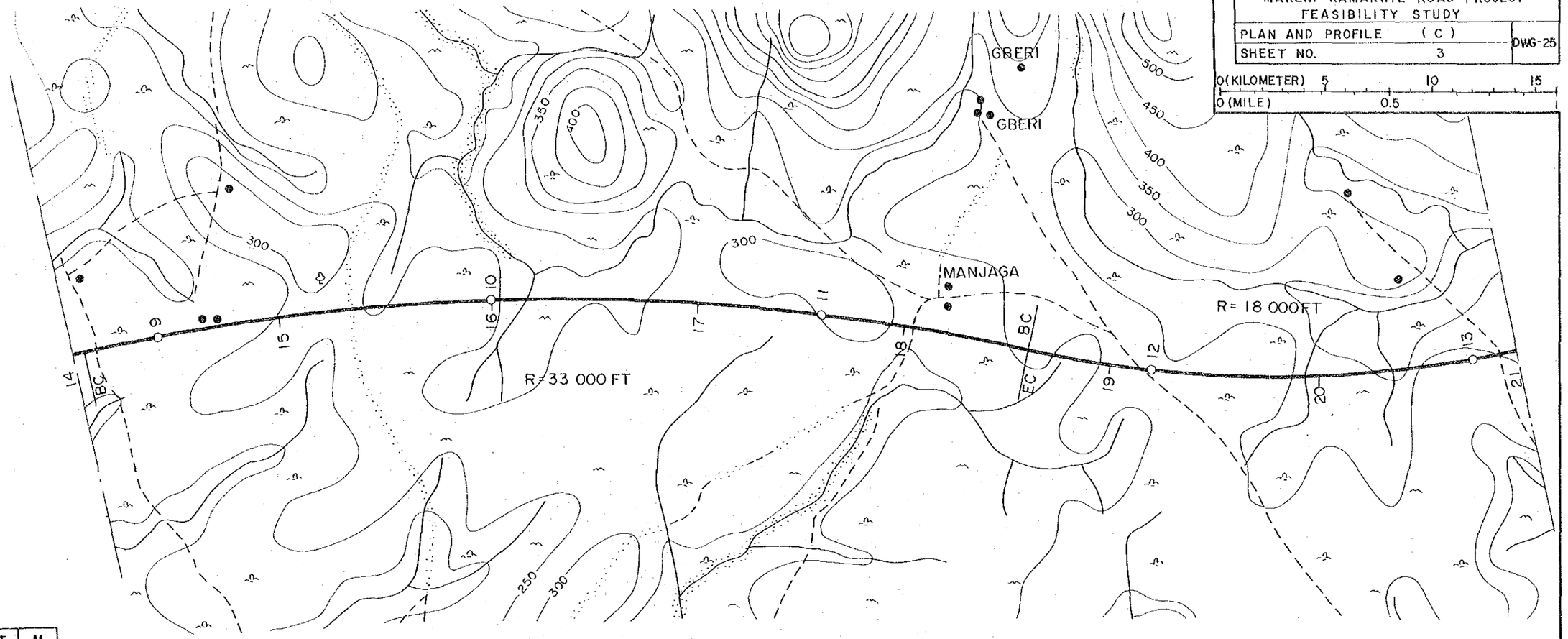
FT	M
300	100
	90
	80
250	
	70
200	60
	50
150	
	40
100	30
	20

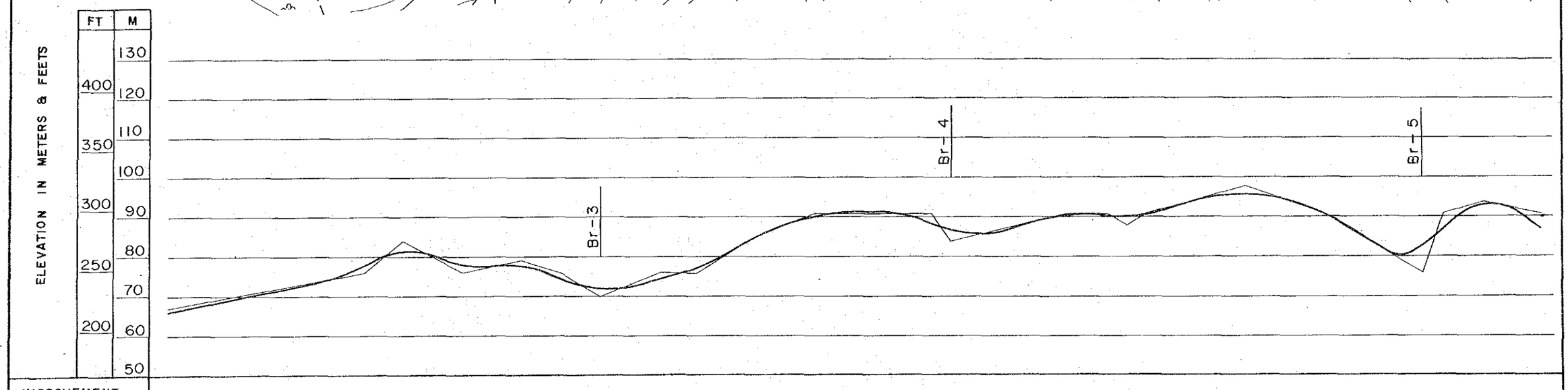
IMPROVEMENT		
ROAD SURFACE KIND		
C B R OF SUBGRADE		
DISTANCE	MILES	5 6 7 8
	KILOMETERS	7 8 9 10 11 12 13 14

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(C)	DWG-25
SHEET NO.	3	

0(KILOMETER) 5 10 15
0 (MILE) 0.5

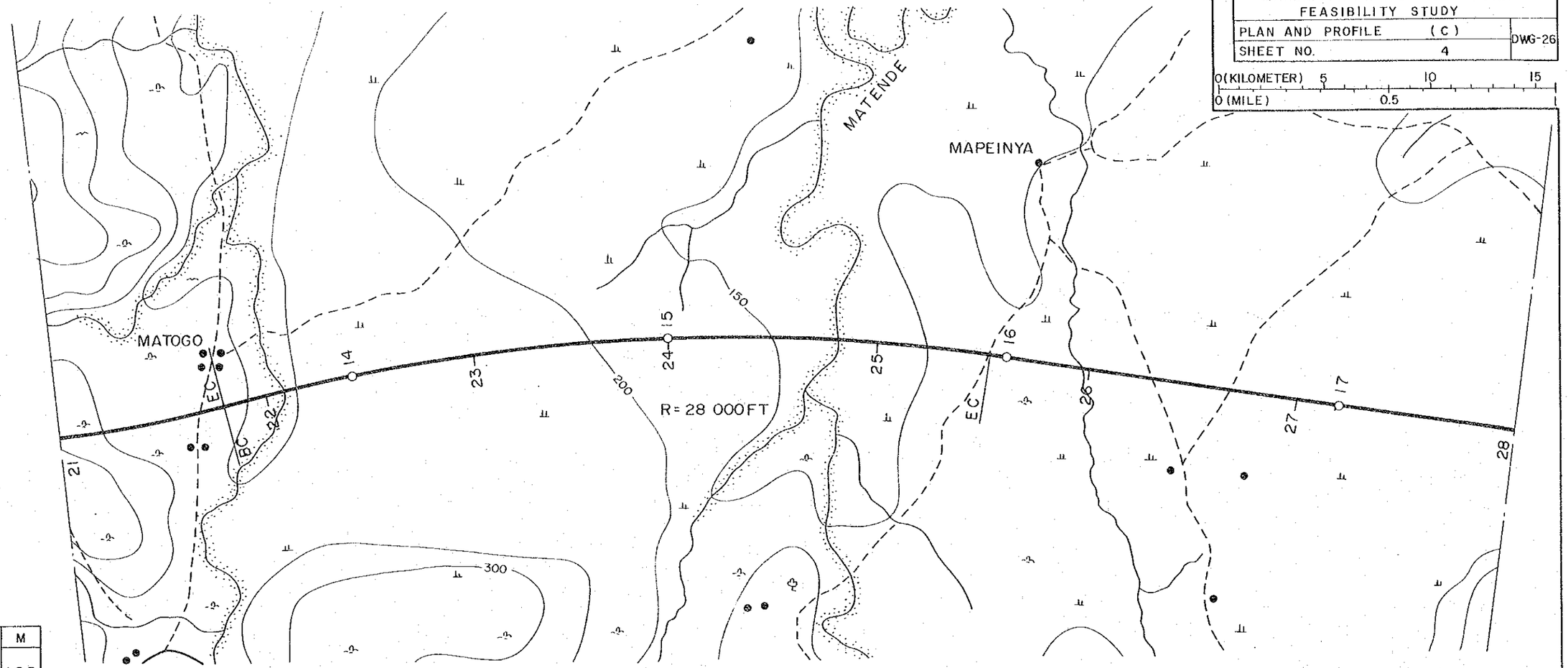


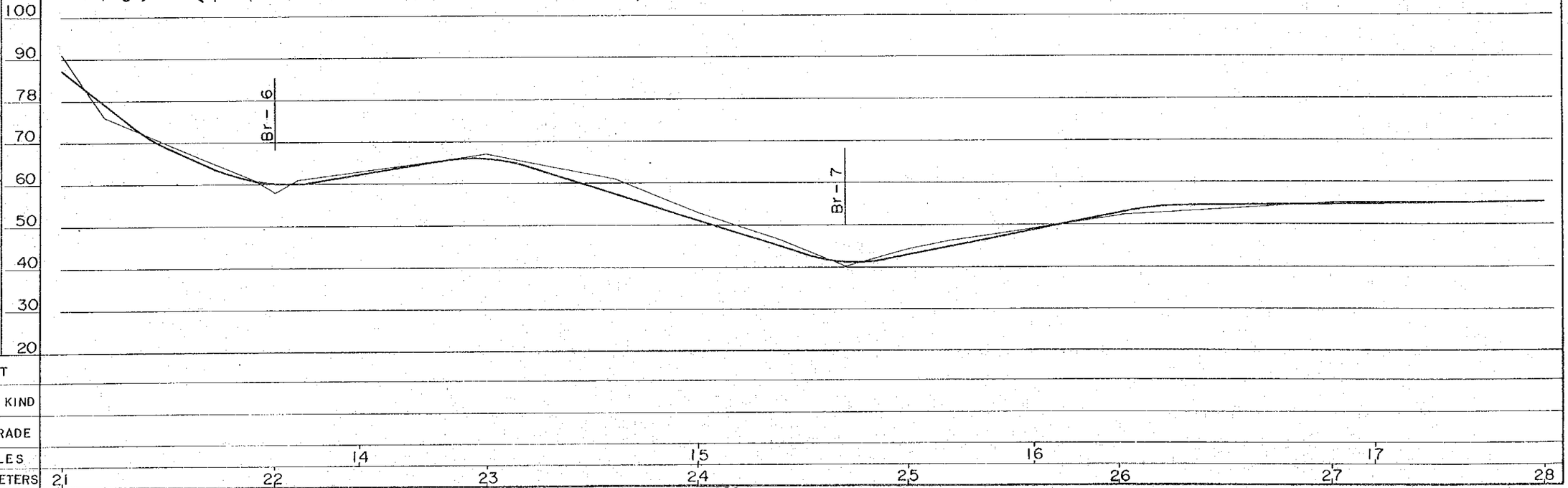


MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(C)	DWG-26
SHEET NO.	4	

0(KILOMETER) 5 10 15
0 (MILE) 0.5



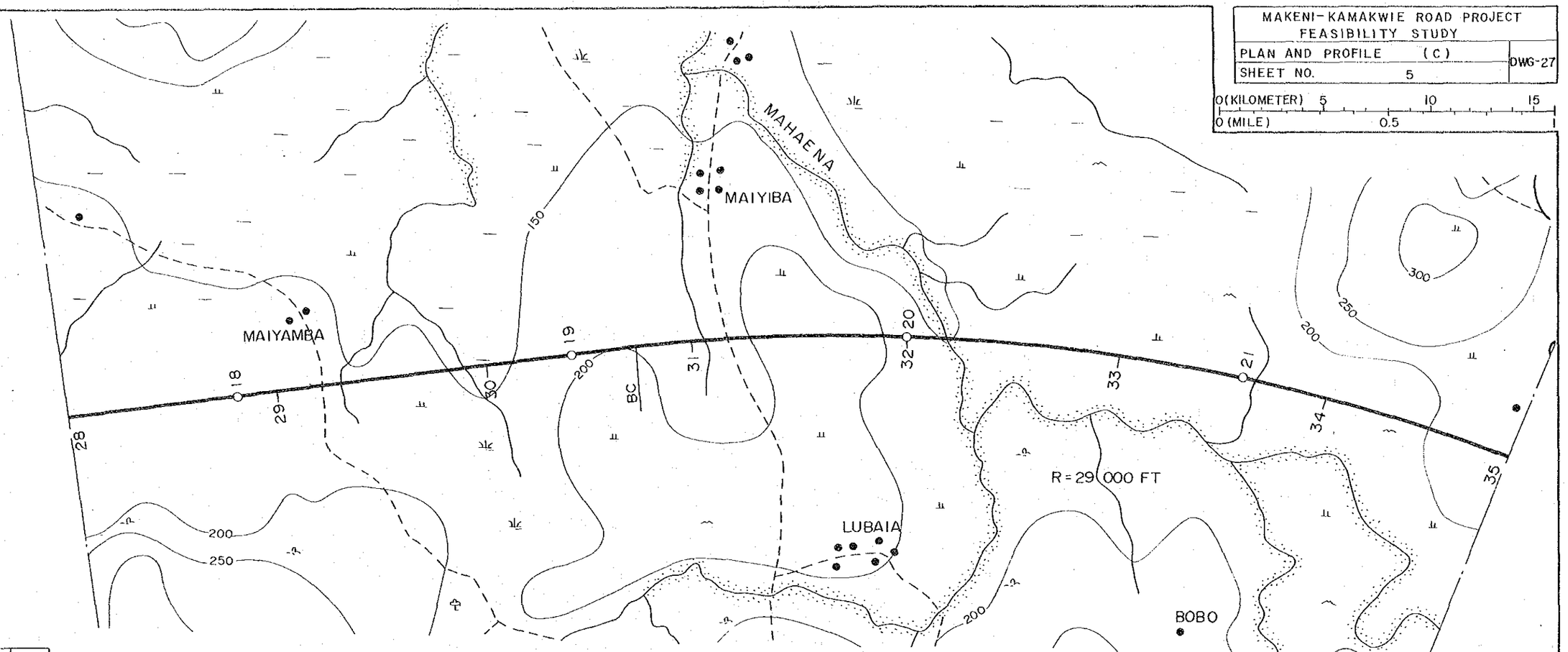


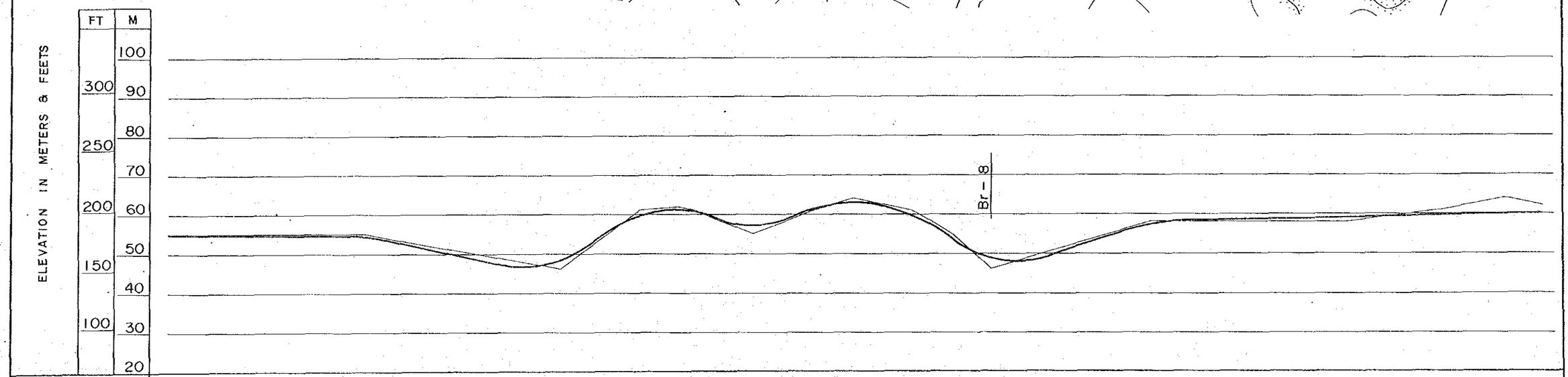
IMPROVEMENT																
ROAD SURFACE KIND																
C B R OF SUBGRADE																
DISTANCE	MILES			14			15			16			17			
	KILOMETERS	21	22		23		24		25		26		27		28	

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE (C)	DWG-27
SHEET NO. 5	

0(KILOMETER) 5 10 15
0 (MILE) 0.5



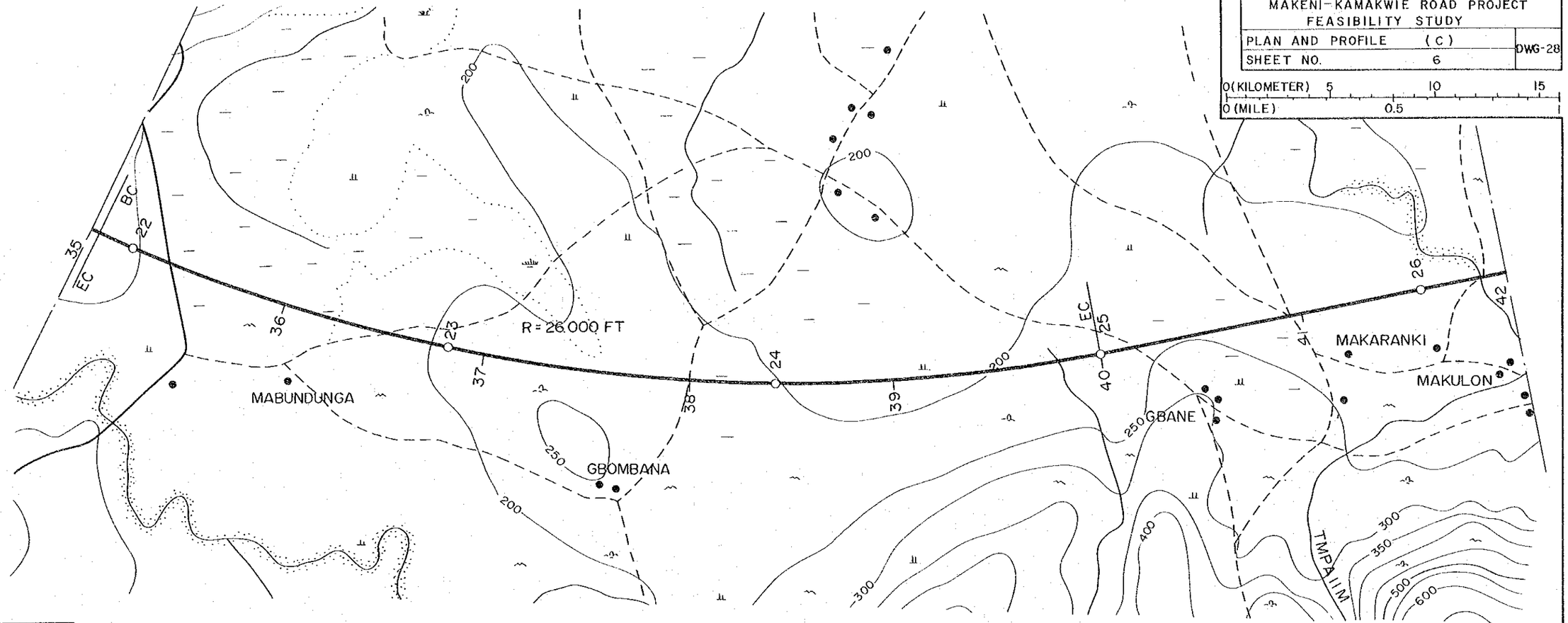


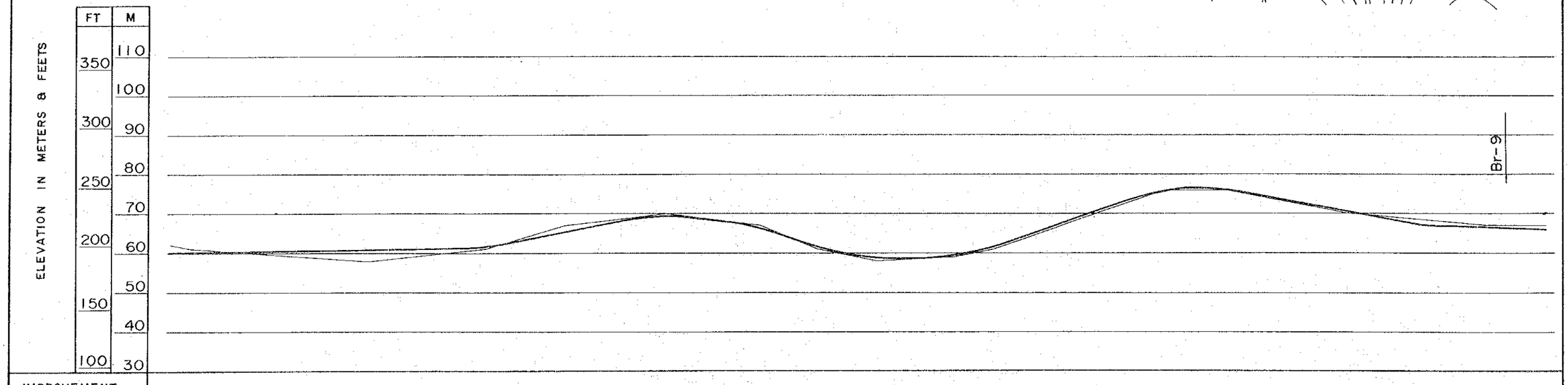
IMPROVEMENT																
ROAD SURFACE KIND																
C B R OF SUBGRADE																
DISTANCE	MILES			18			19			20			21			
	KILOMETERS	28	29		30		31		32		33		34		35	

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(C)	DWG-28
SHEET NO.	6	

0 (KILOMETER) 5 10 15
0 (MILE) 0.5

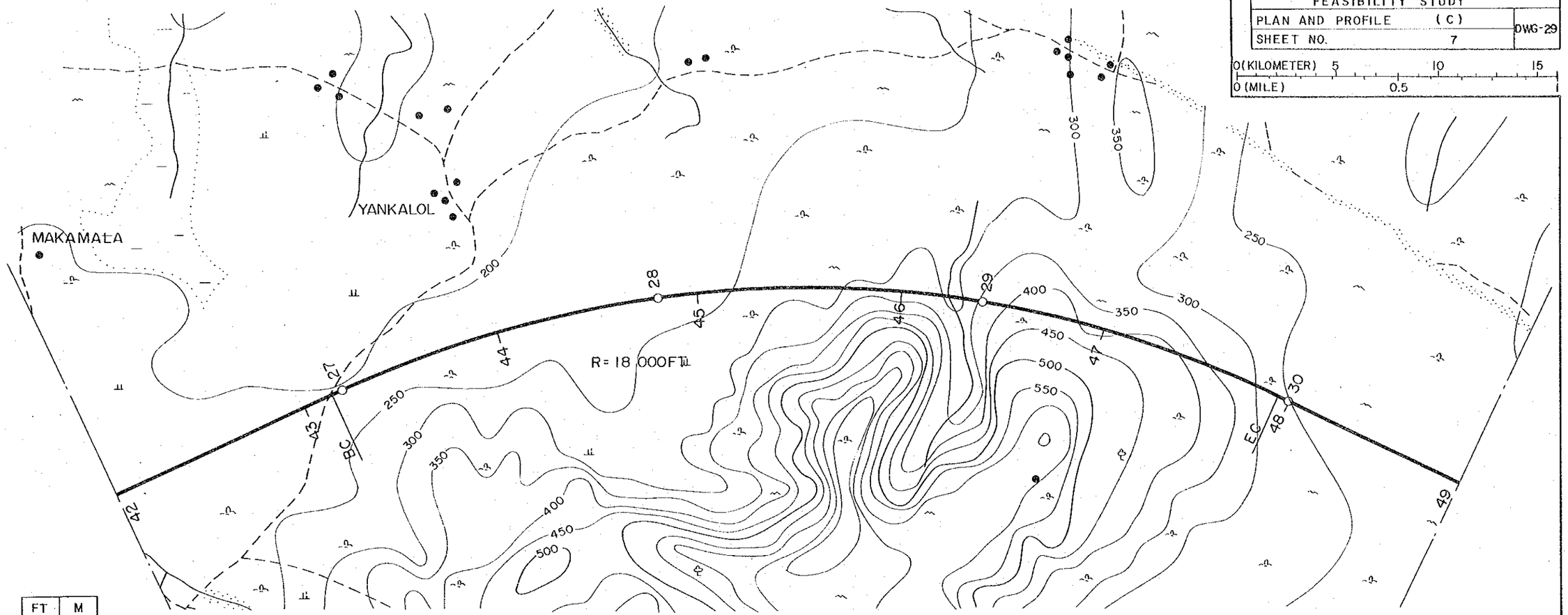


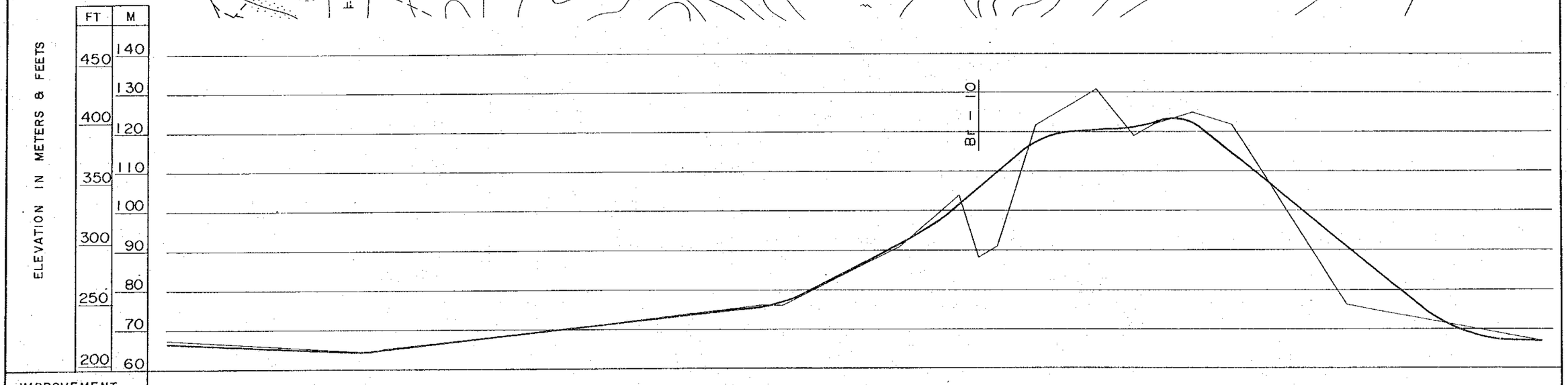


MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(C)	DWG-29
SHEET NO.	7	

0(KILOMETER) 5 10 15
0 (MILE) 0.5

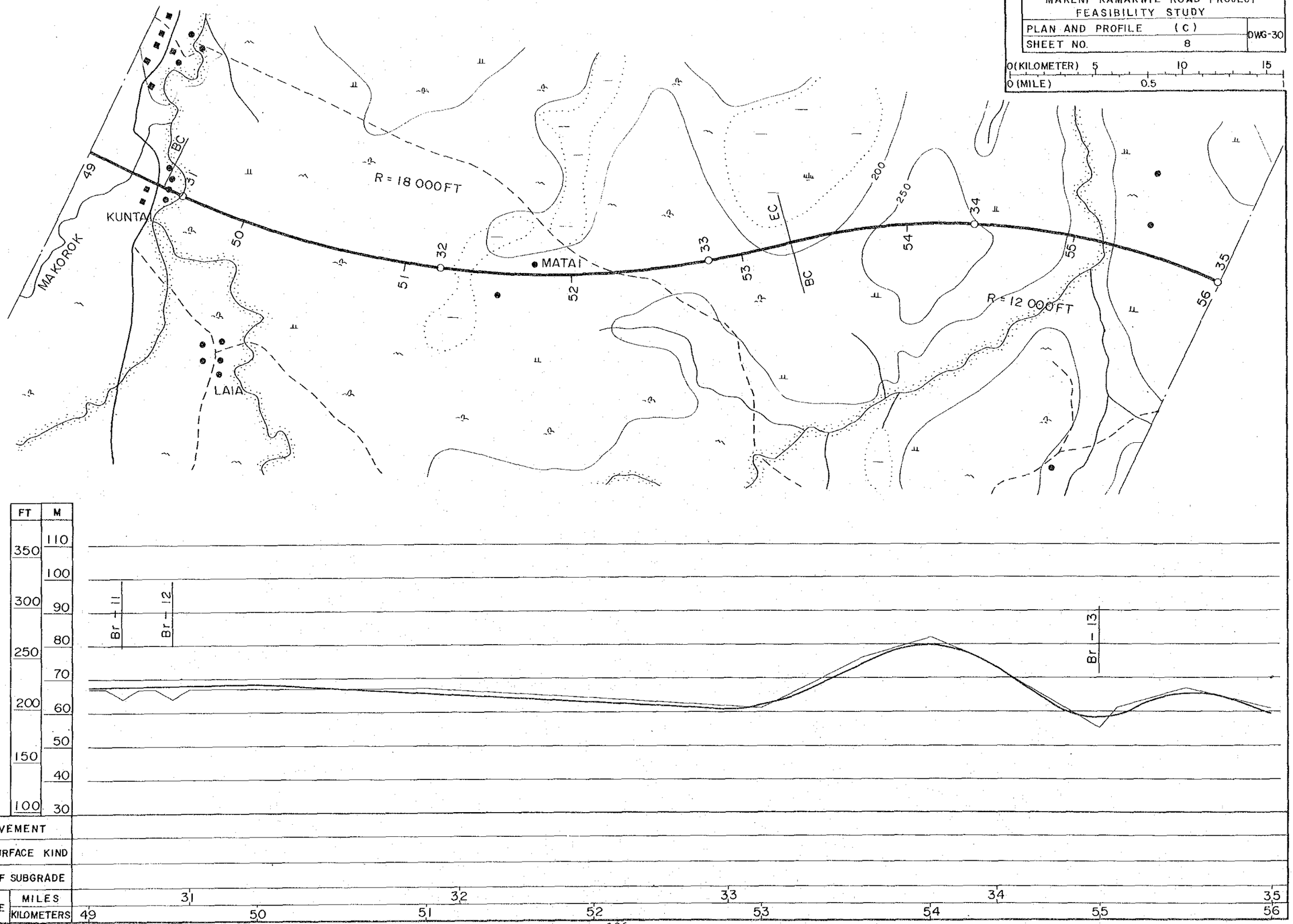




IMPROVEMENT		
ROAD SURFACE KIND		
C B R OF SUBGRADE		
DISTANCE	MILES	27 28 29 30
	KILOMETERS	42 43 44 45 46 47 48 49

MAKENI–KAMAKWIE ROAD PROJECT FEASIBILITY STUDY		
PLAN AND PROFILE	(C)	DWG-30
SHEET NO.	8	

0(KILOMETER) 5 10 15
0 (MILE) 0.5



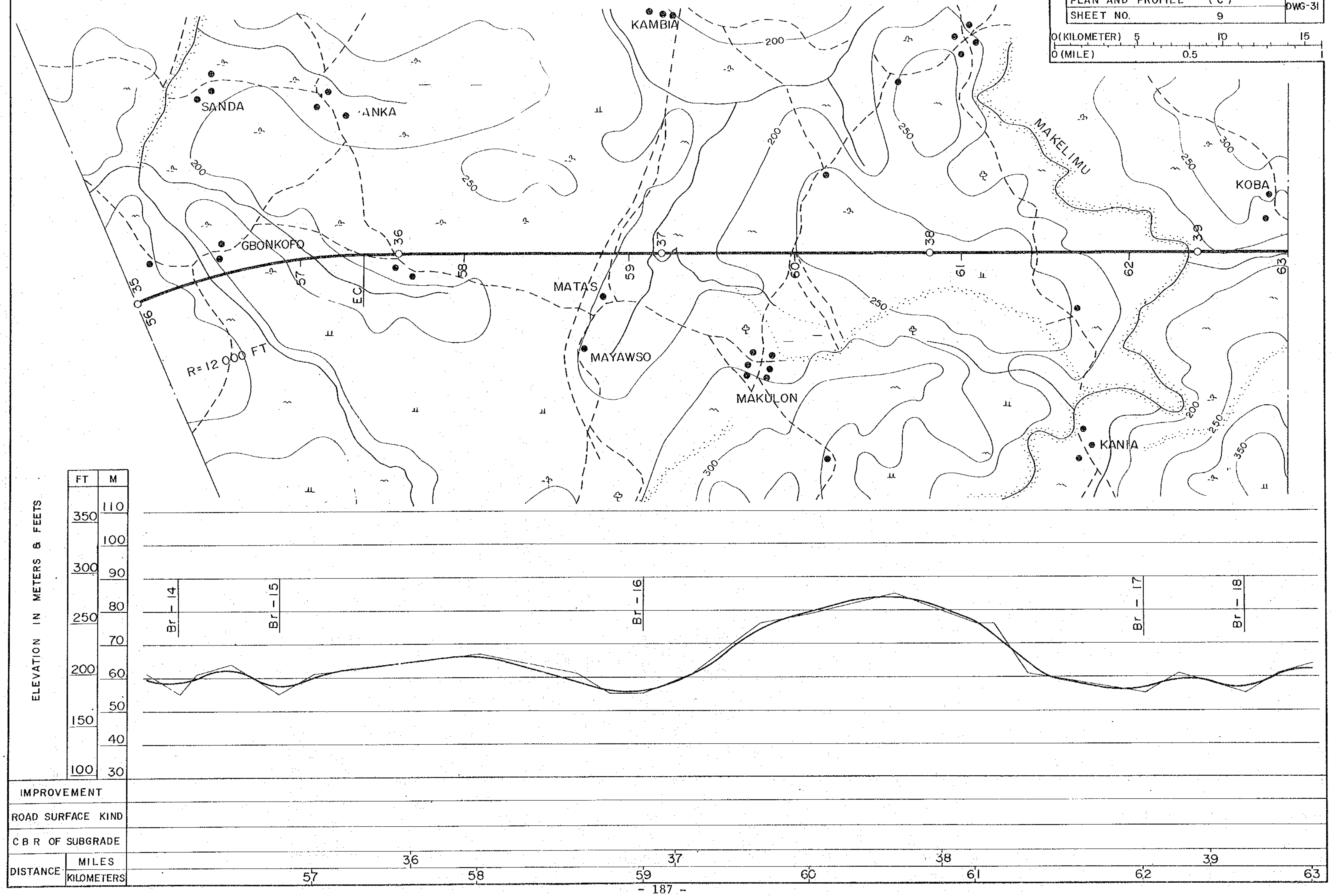
ELEVATION IN METERS & FEETS

FT	M
350	110
	100
300	90
	80
250	70
	60
200	50
150	40
100	30

IMPROVEMENT										
ROAD SURFACE KIND										
C B R OF SUBGRADE										
DISTANCE	MILES		31		32		33		34	35
	KILOMETERS	49	50	51	52	53	54	55		56

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

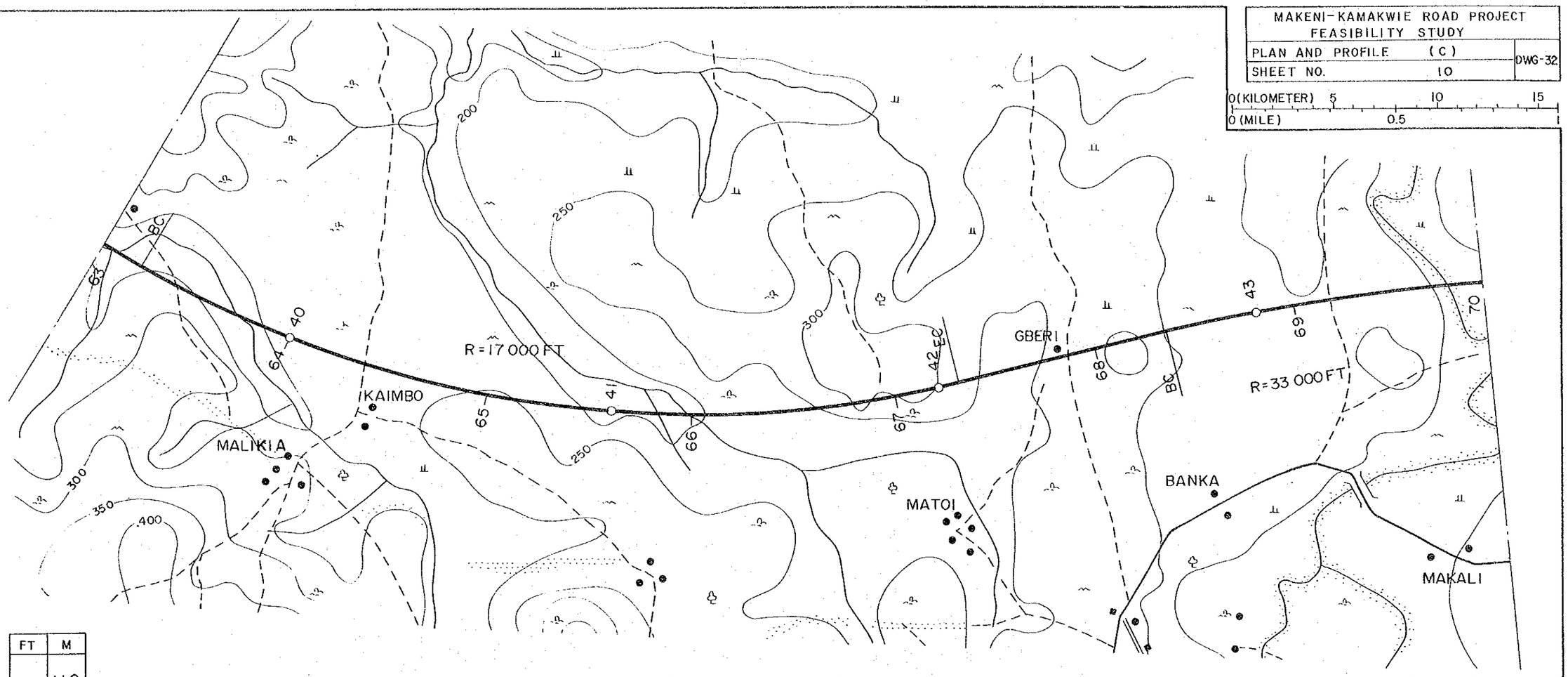
PLAN AND PROFILE	(C)	DWG-31
SHEET NO.	9	



MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

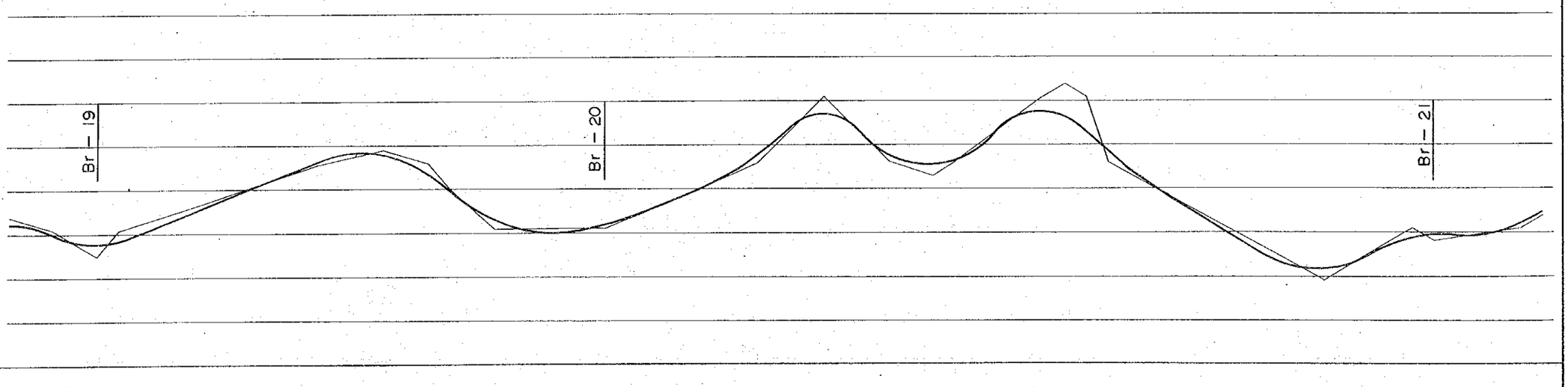
PLAN AND PROFILE	(C)	DWG-32
SHEET NO.	10	

0(KILOMETER) 5 10 15
0 (MILE) 0.5



ELEVATION IN METERS & FEETS

FT	M
350	110
	100
300	90
	80
250	70
	60
200	50
150	40
100	30

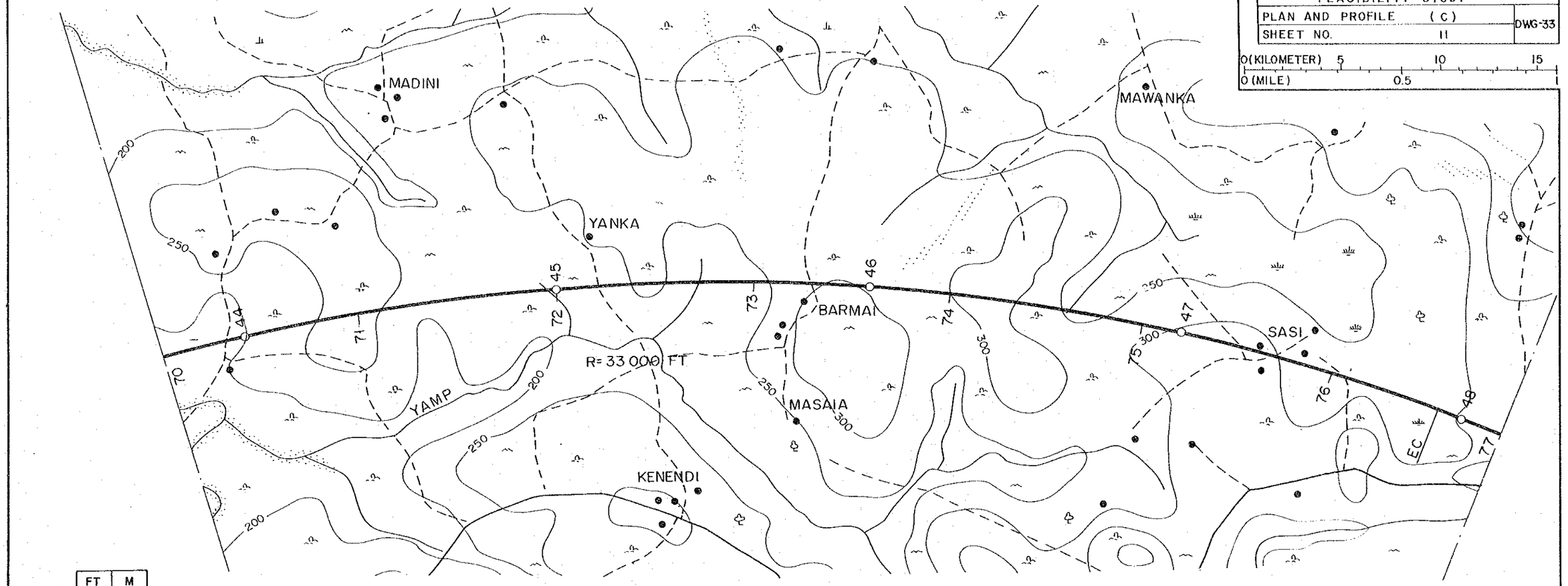


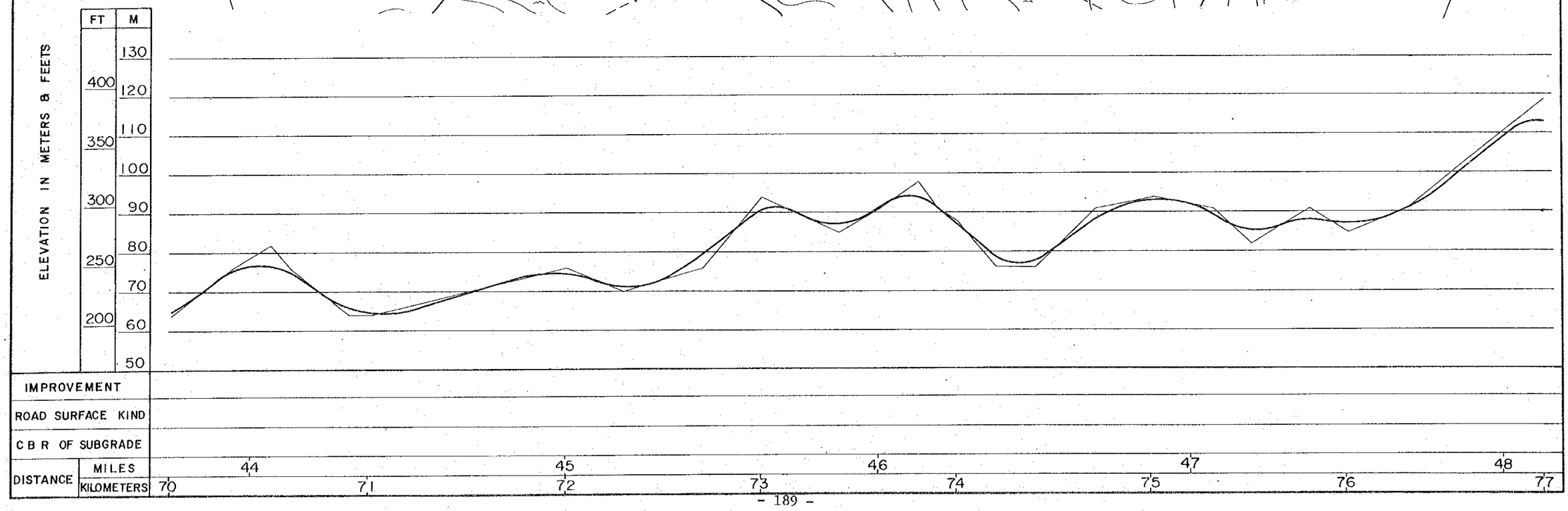
IMPROVEMENT										
ROAD SURFACE KIND										
CBR OF SUBGRADE										
DISTANCE	MILES		40		41		42		43	
	KILOMETERS	63	64	65	66	67	68	69	70	

MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

PLAN AND PROFILE	(C)	DWG-33
SHEET NO.	11	

0(KILOMETER) 5 10 15
0 (MILE) 0.5

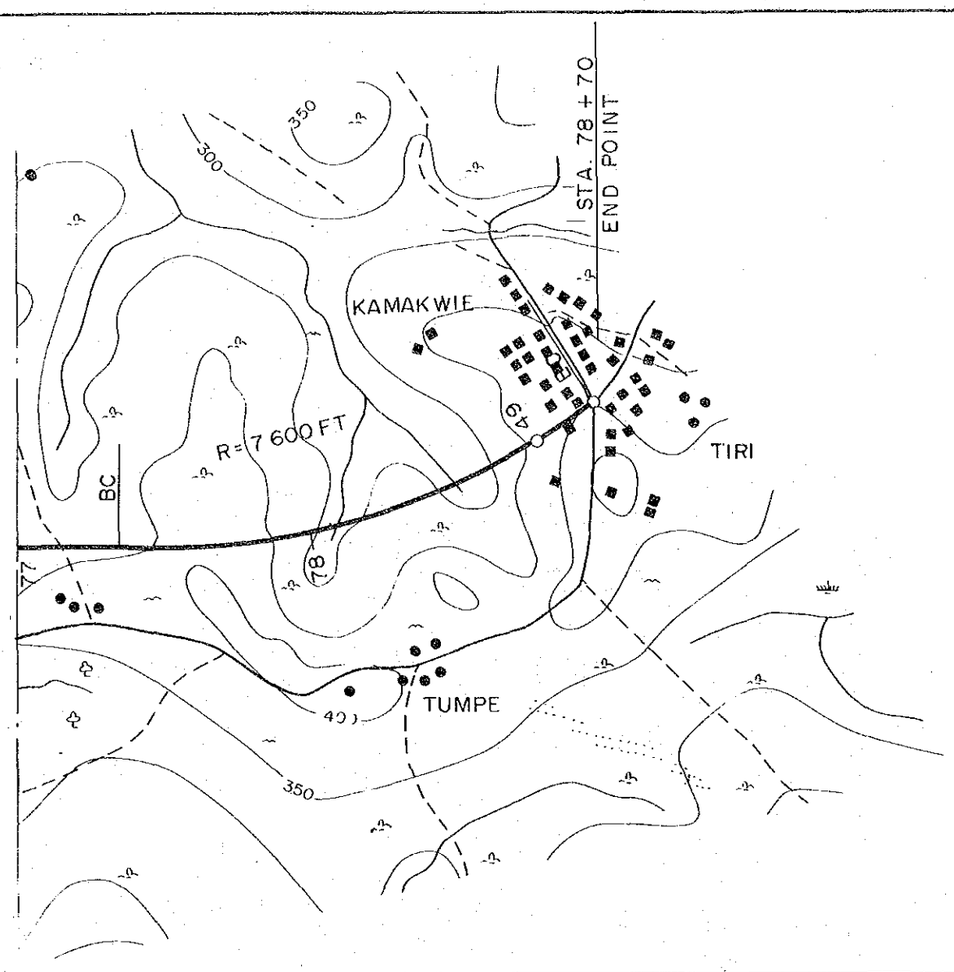




MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

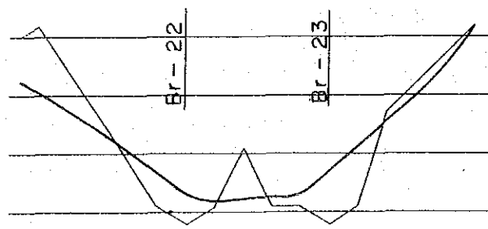
PLAN AND PROFILE (C)	DWG-34
SHEET NO. 12	

0(KILOMETER) 5 10 15
0 (MILE) 0.5



ELEVATION IN METERS & FEETS

FT	M
	130
400	120
	110
350	100
	90
300	80
	70
250	60
	50
200	



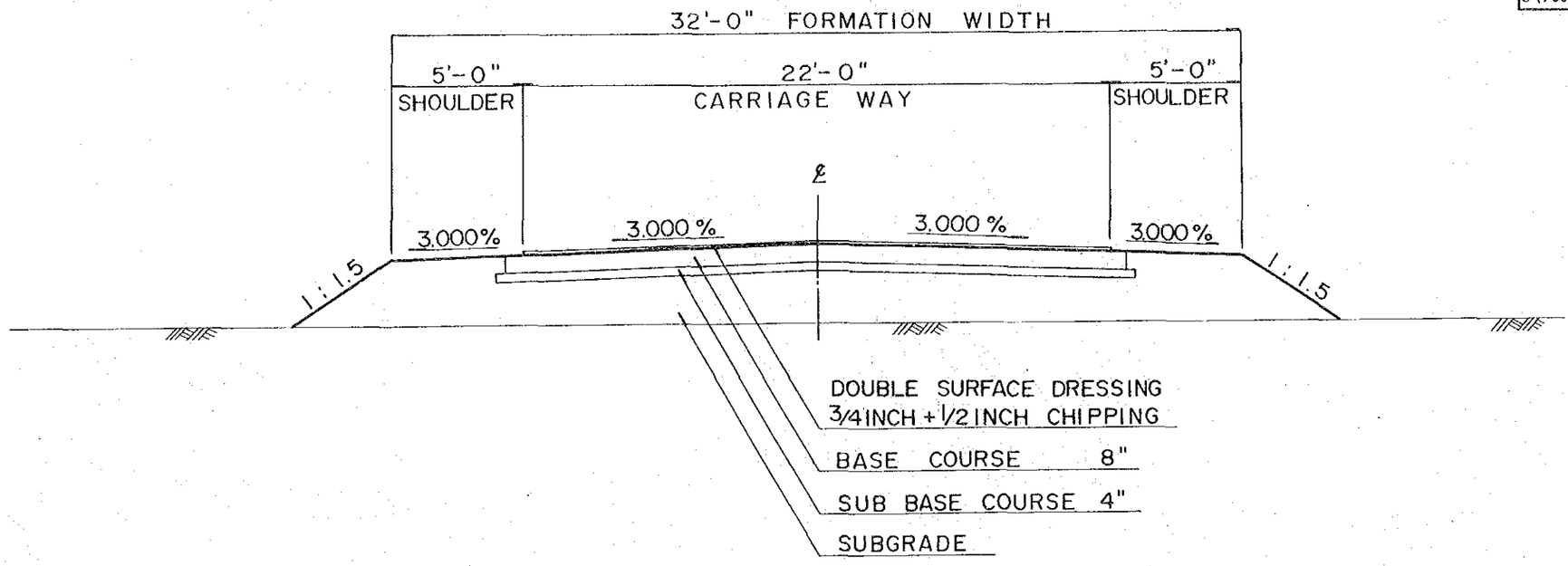
IMPROVEMENT					
ROAD SURFACE KIND					
C B R OF SUBGRADE					
DISTANCE	MILES			49	49.1
	KILOMETERS	77	78	78.6	

APPENDIX S－4 標 準 横 断 図

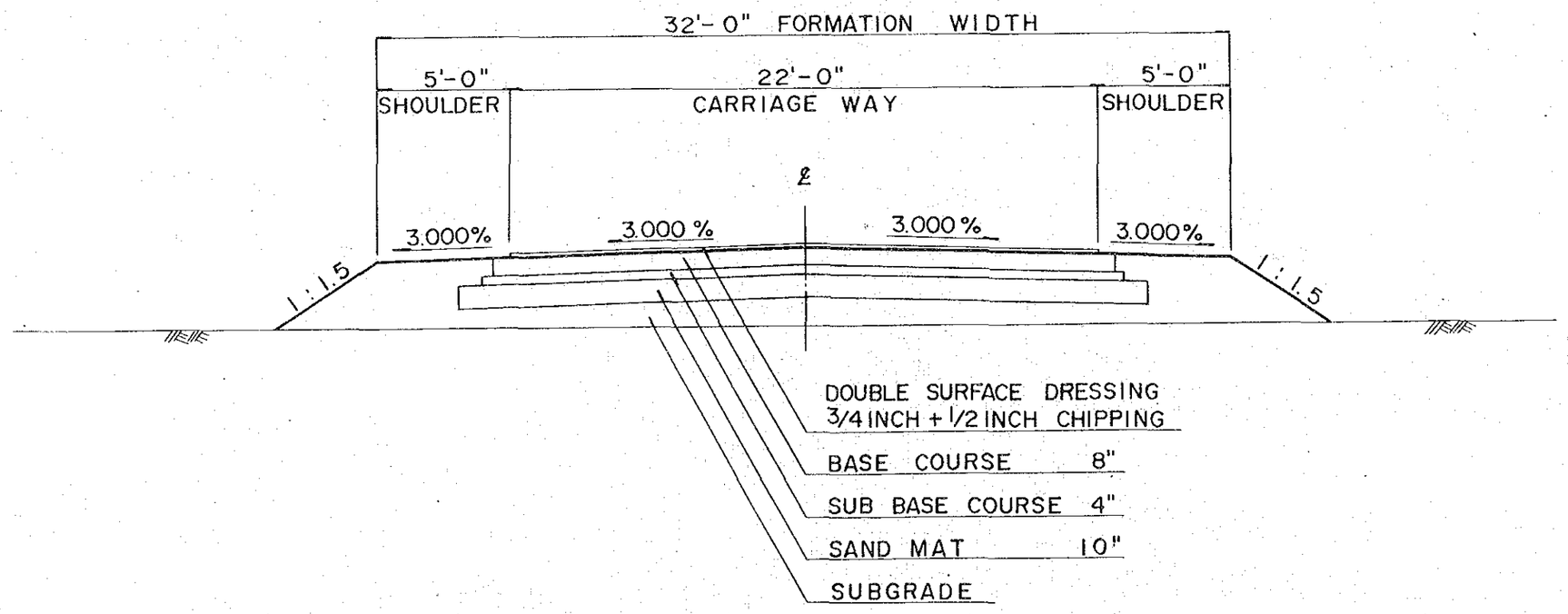
MAKENI－KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY
TYPICAL CROSS SECTION
TYPICAL PAVEMENT STRUCTURE
DWG-35

0(Meters) 2 3 4
0 (Feet) 5 10 15

TYPE A



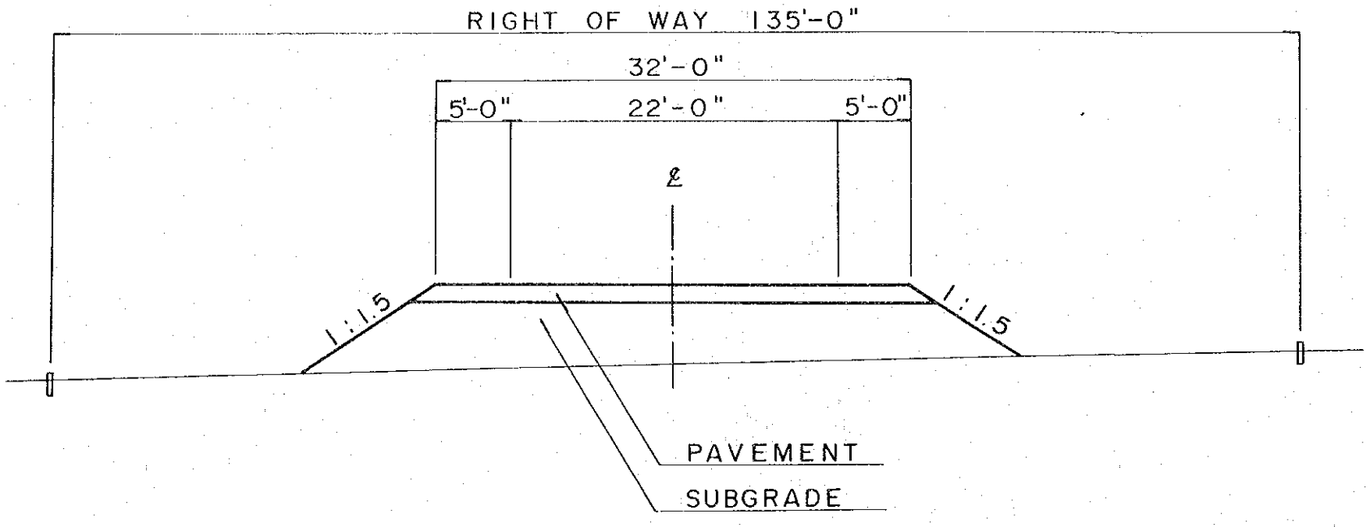
TYPE B



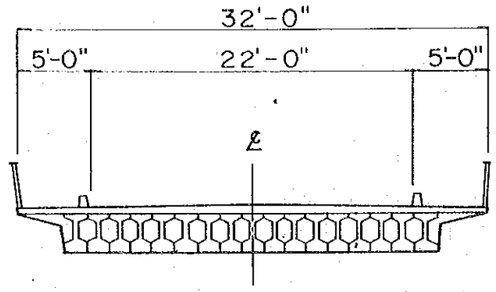
MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY
TYPICAL CROSS SECTION
NEW CONSTRUCTION SECTION
DWG-36

0 (Meters) 3 4 5 6 7 8 9
0 (Feet) 5 10 15 20 25 30

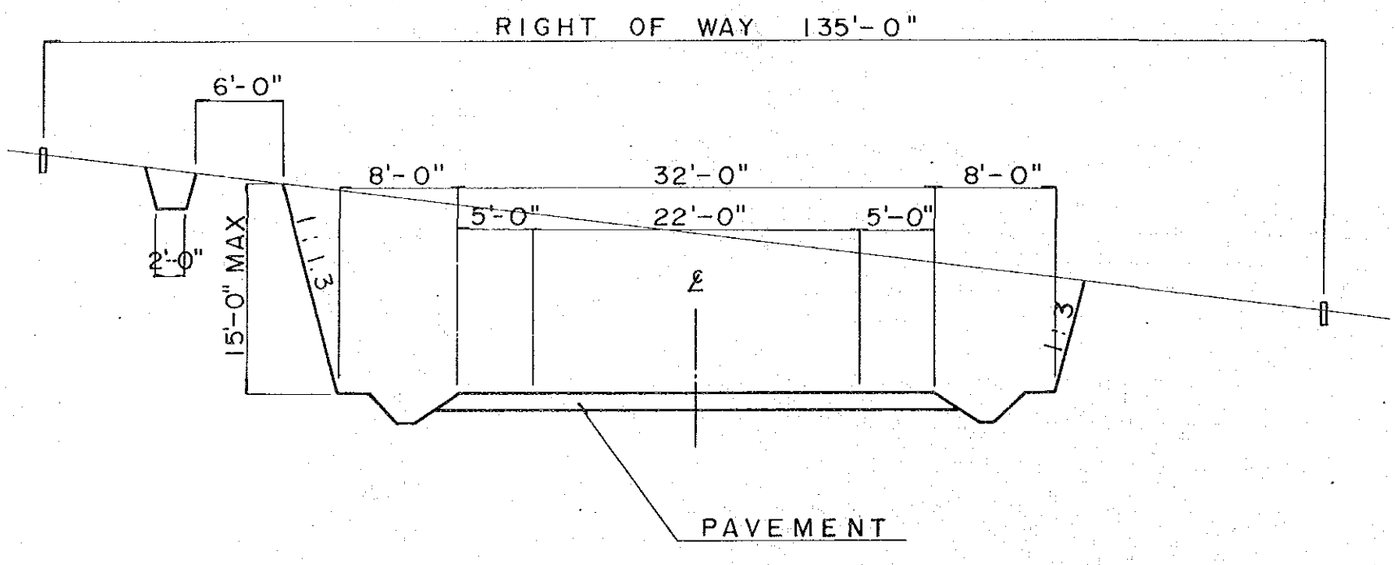
FILL SECTION



BRIDGE SECTION



CUT SECTION



MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

TYPICAL CROSS SECTION

EXISTING ROAD SECTION

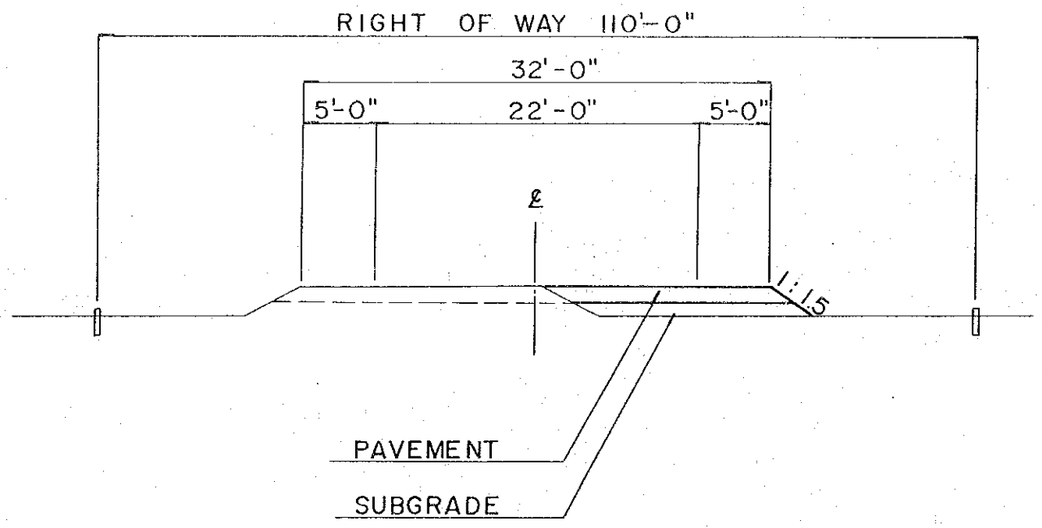
DWG-37

0(Meters) 3 4 5 6 7 8 9

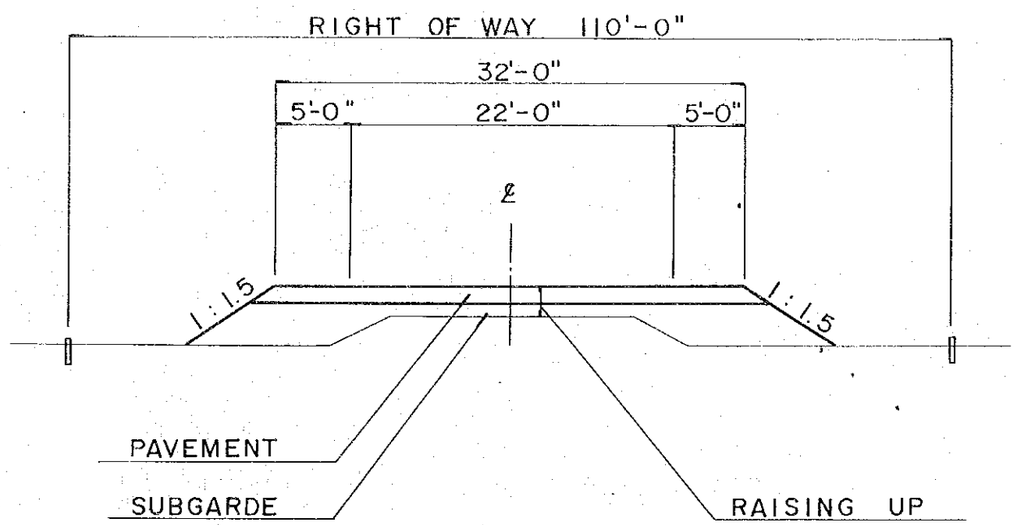
0 (Feet)5 10 15 20 25 30

FILL SECTION

WIDENING

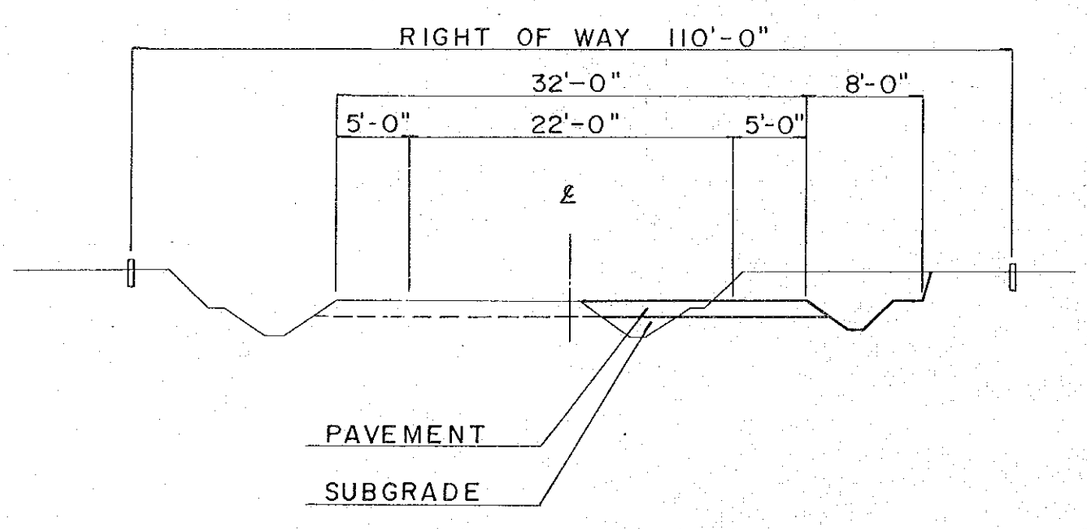


RAISING UP AND WIDENING



OUT SECTION

WIDENING



DIGGING DOWN AND WIDENING