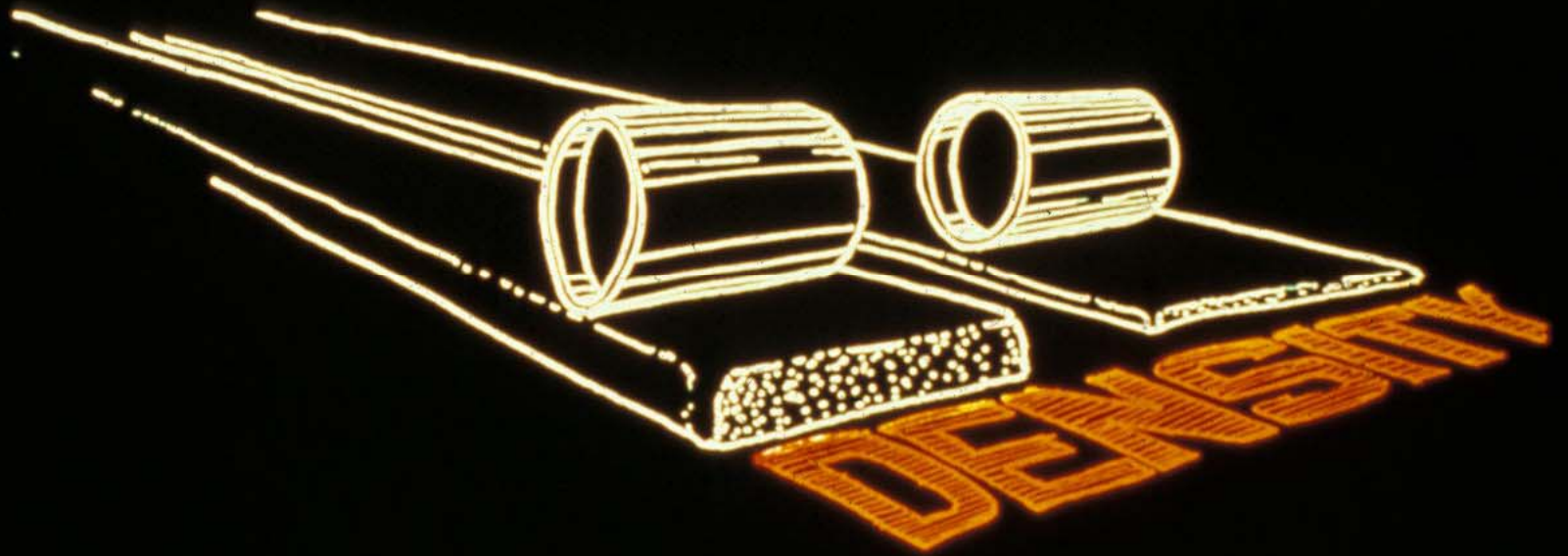




COMPACTION

OF ASPHALT

PAVEMENTS



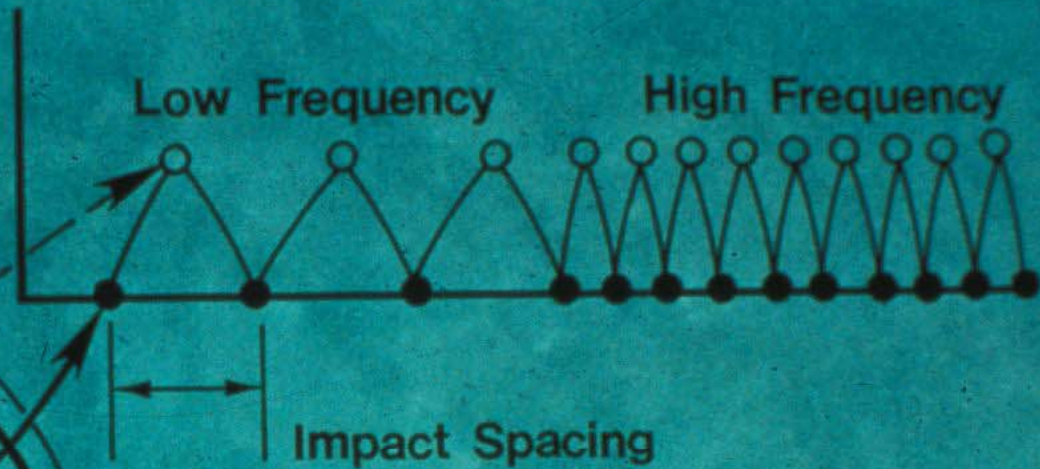
TYPES OF ROLLERS

Steel Wheel

Pneumatic

Vibratory

- **VIBRATION ON-OFF**
- **FREQUENCY**
- **AMPLITUDE**
- **NUMBER OF PASSES**
- **SPEED**
- **ROLLING ZONE**
- **PATTERN**

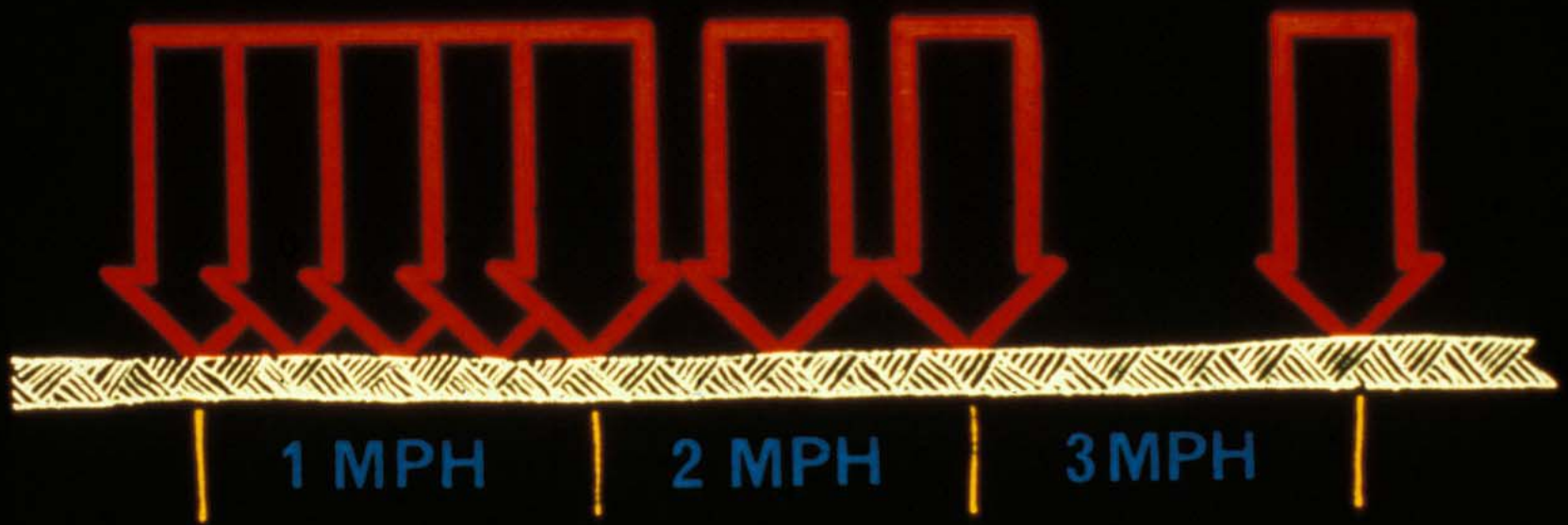


FREQUENCY



DIRECTION OF TRAVEL

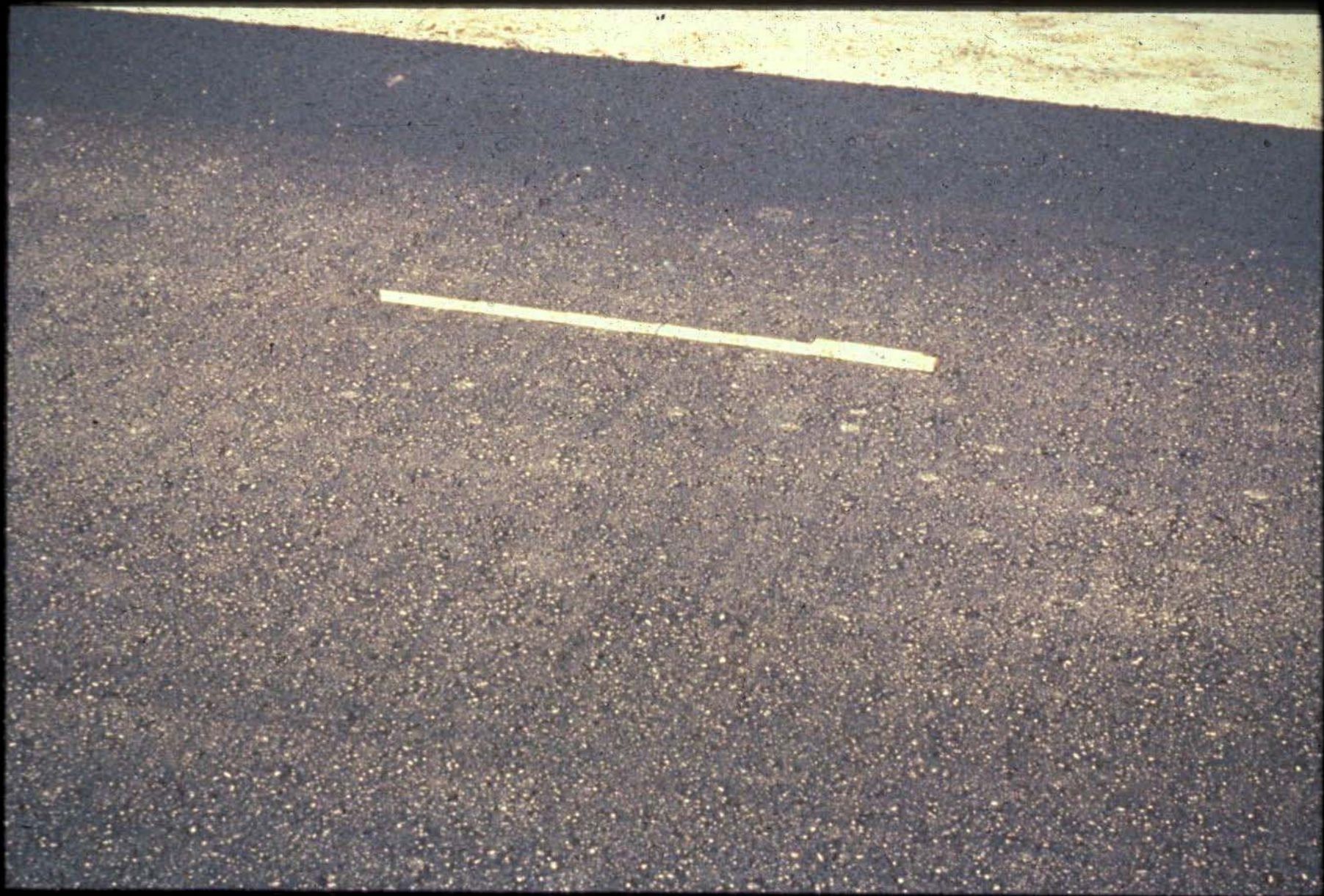




Spacing between impacts

(based on average rolling speed)

Frequency	2mph	3mph	4mph	5mph
2000 vpm	1.06	1.58	2.11	2.64
2200 vpm	0.96	1.44	1.92	2.40
2400 vpm	0.88	1.32	1.76	2.20
2600 vpm	0.81	1.22	1.63	2.03
2800 vpm	0.75	1.13	1.51	1.89
3000 vpm	0.70	1.06	1.41	1.76
3200 vpm	0.66	0.99	1.32	1.65
3400 vpm	0.62	0.93	1.24	1.55
3600 vpm	0.59	0.88	1.17	1.47
3800 vpm	0.56	0.83	1.11	1.39

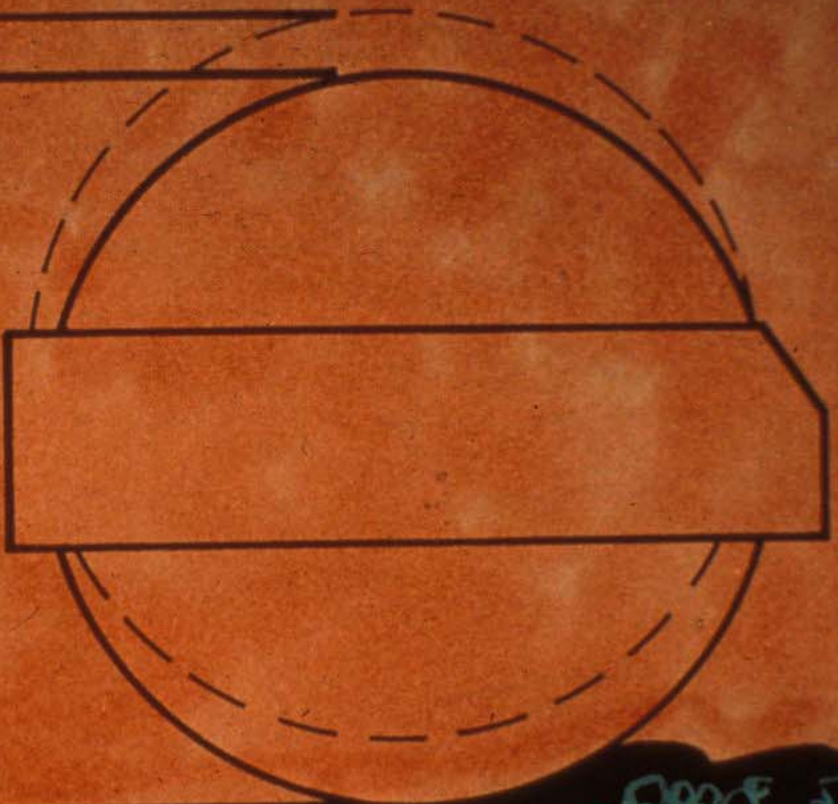


EASY DOES IT!





AMPLITUDE

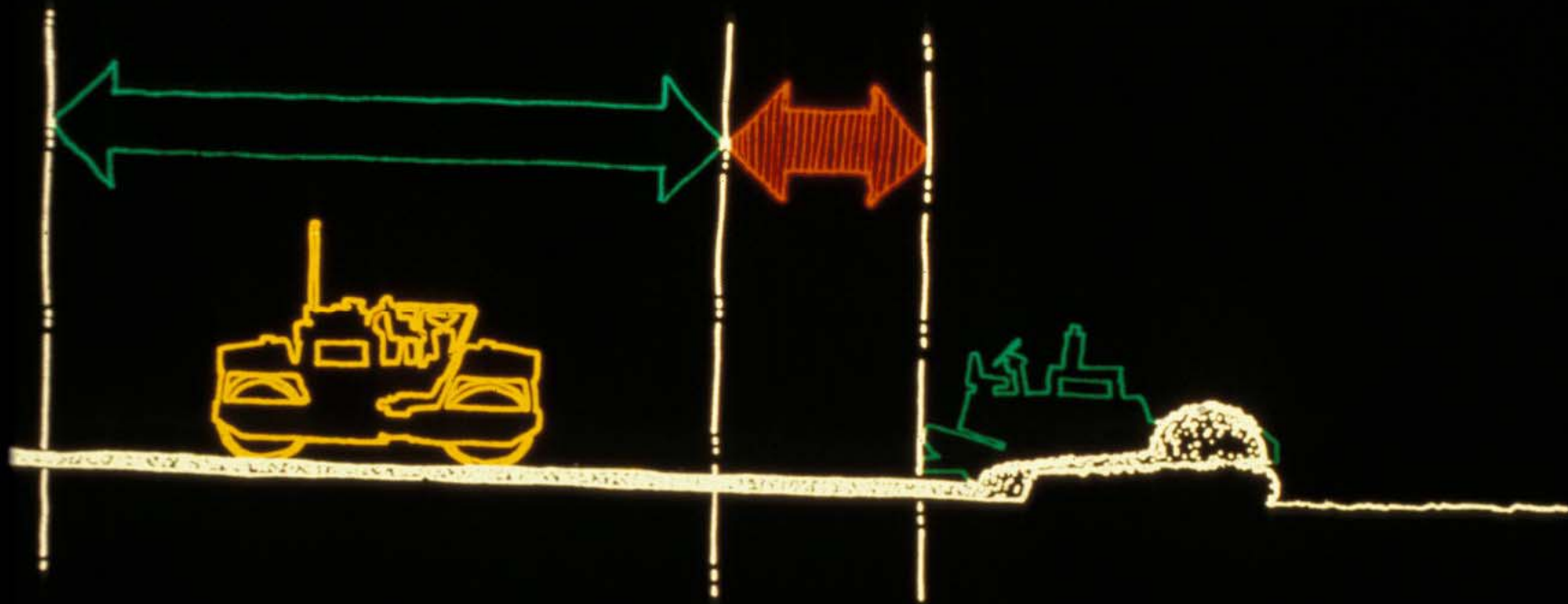


USE LO AMPLITUDE

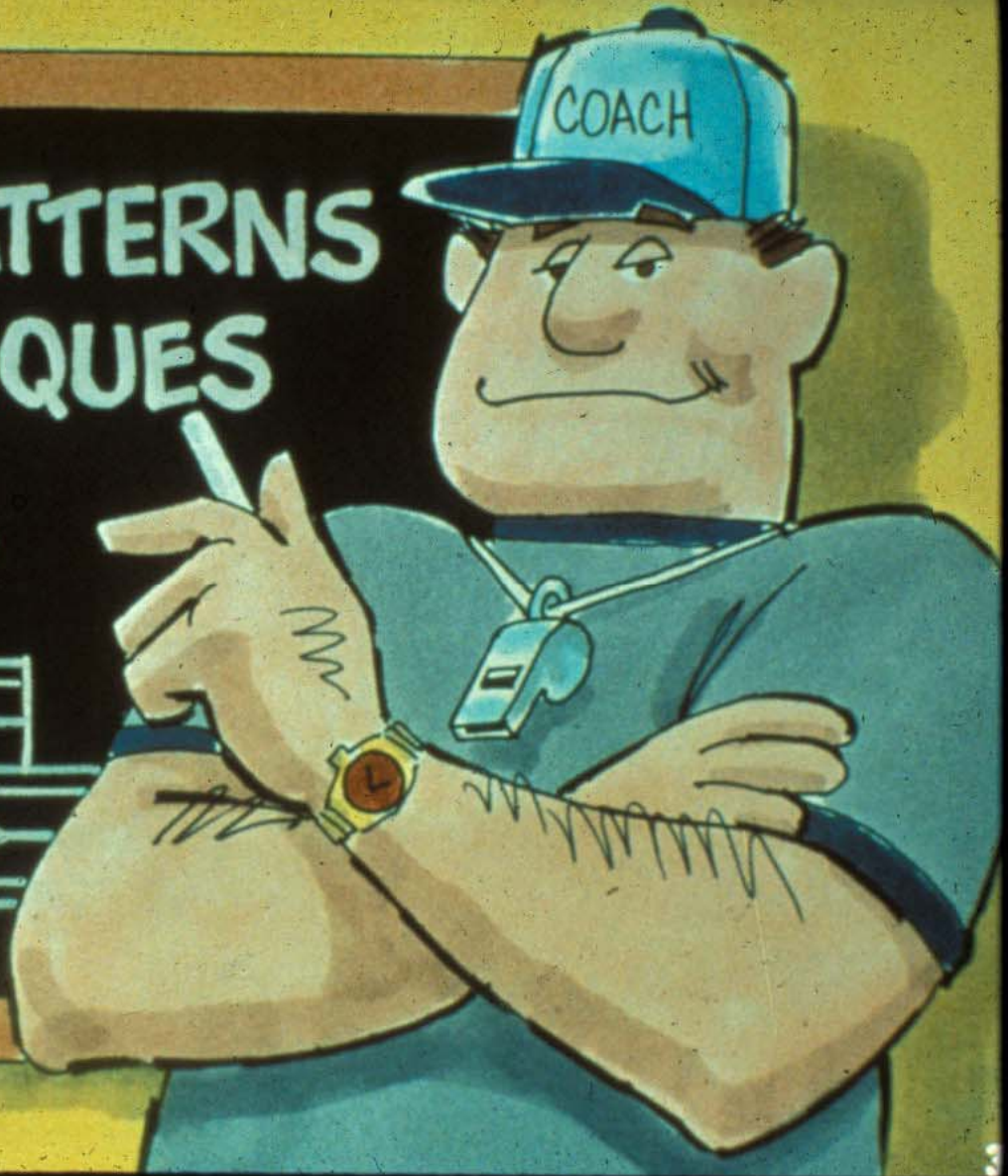
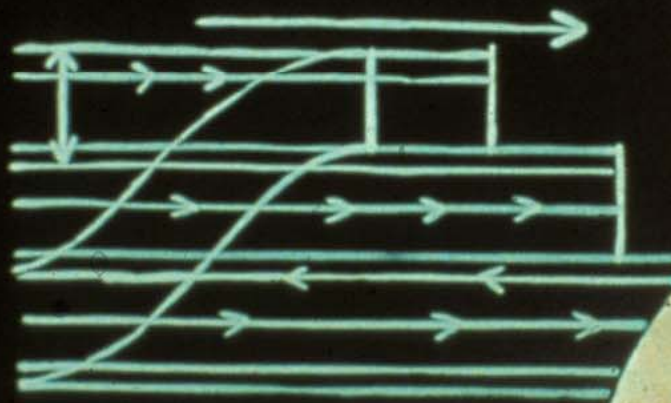


USE HI AMPLITUDE





ROLLING PATTERNS AND TECHNIQUES

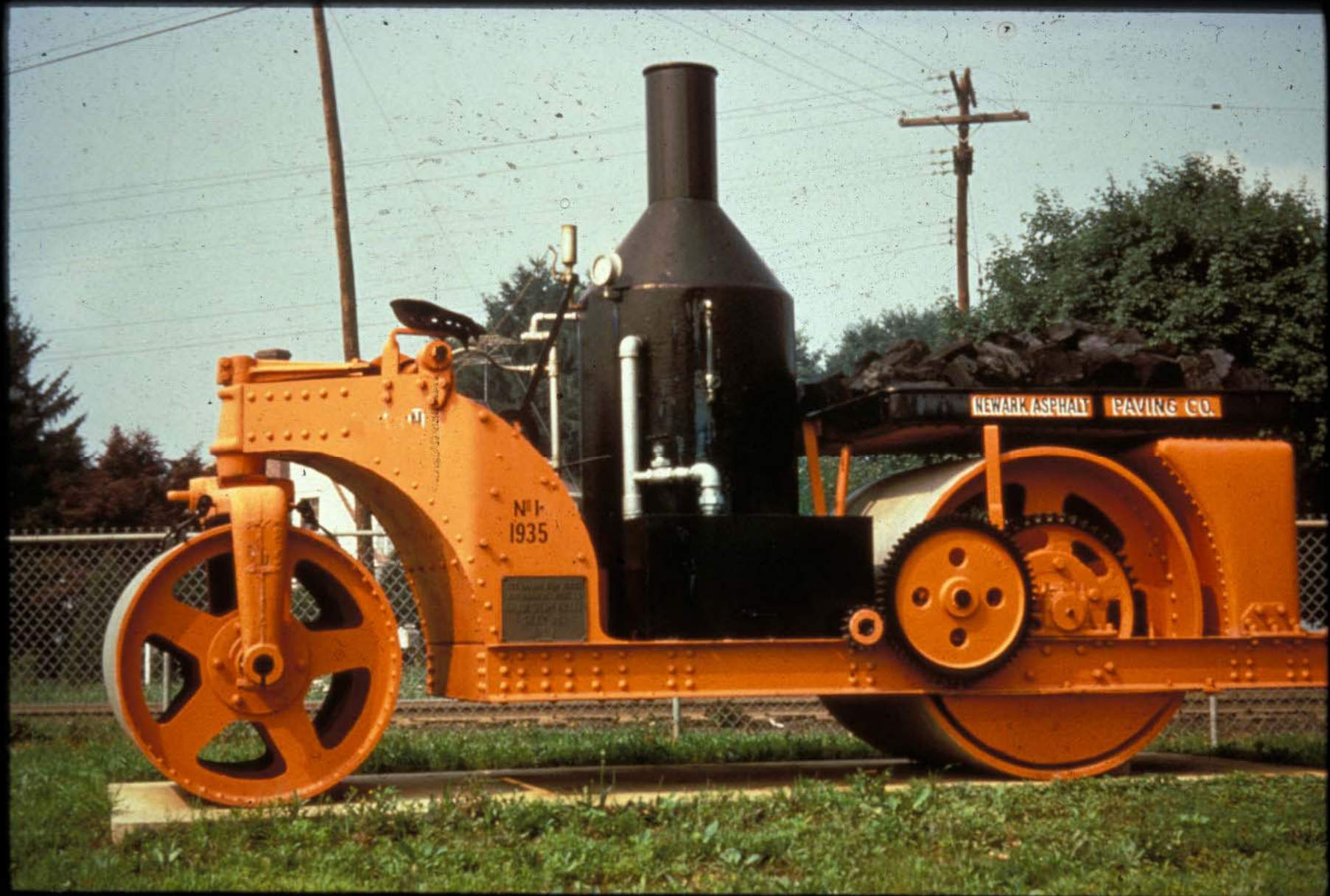


COMPACTION by STATIC WEIGHT







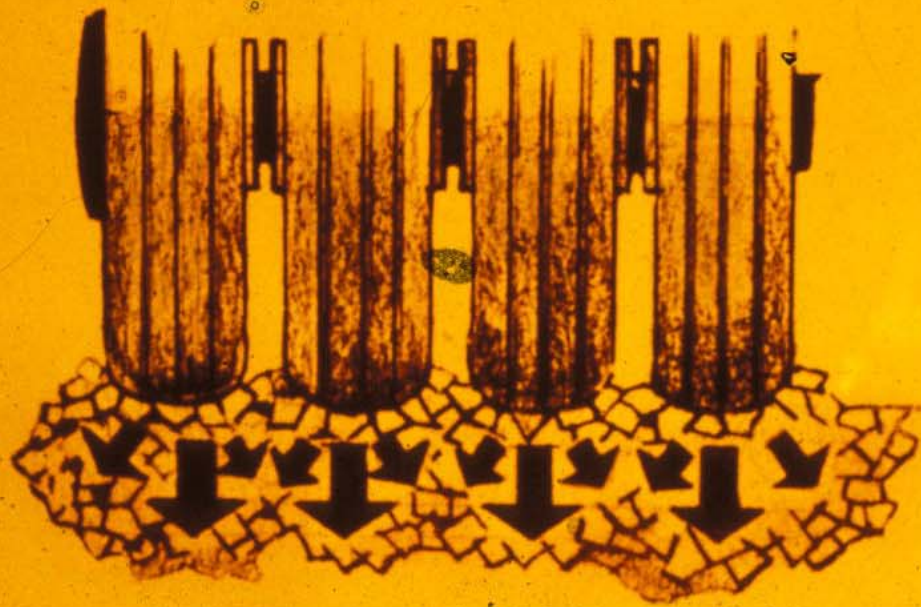


NEWARK ASPHALT PAVING CO.

N-1
1935



COMPACTION by KNEADING ACTION







238

SP-6000B



ROLL-O-FACTOR

A PRODUCT OF LUNDA



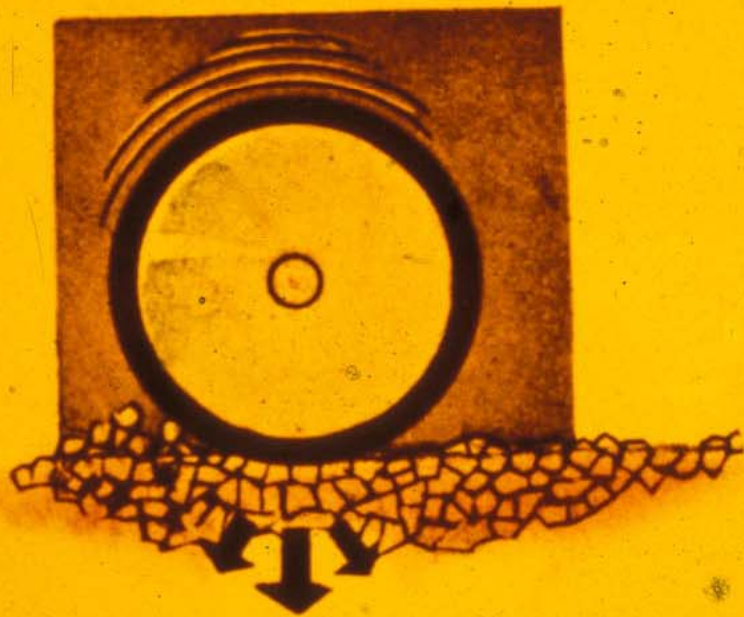
OVERSIZE
LOAD







COMPACTION by VIBRATING ROLLERS











COMPACTION OF STIFF MIXES



















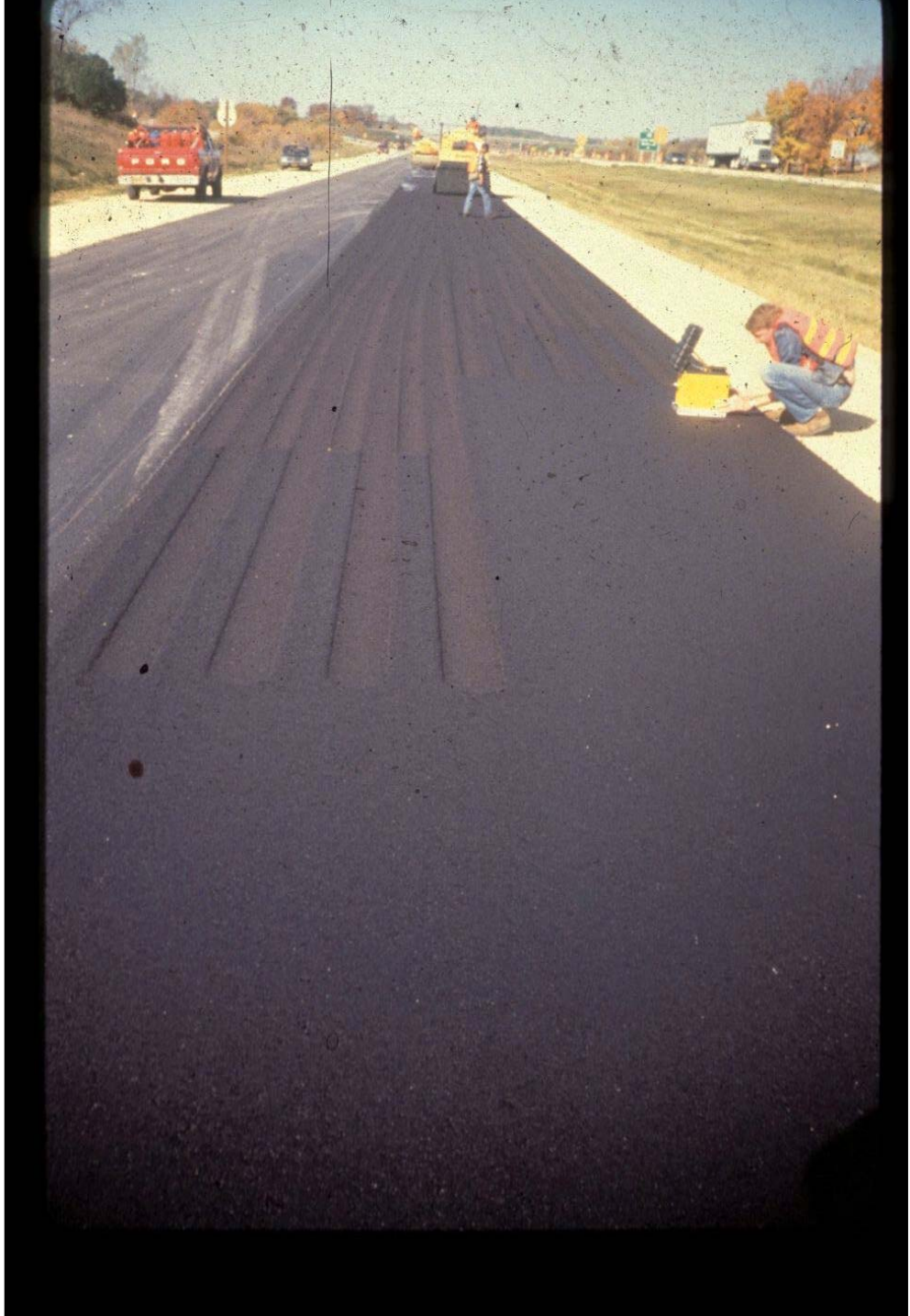
























COMPACTION OF TENDER MIXES

Compaction of Superpave Mixes

Compactive Force

Pressure
Vibration

Pressure
Manipulation

Pressure

**TENDER
ZONE**

Temperature
Zones

300° - 285°

240° - 200°

170 - 150°



Compaction of Superpave Mixes

Approximate
Density Measurement

91% - 92%
of M.T.D.

92%
of M.T.D.

94% - 97%
of M.T.D.



**TENDER
ZONE**



Temperature
Zones

300° - 285°

240° - 200°

170 - 150°

Distance

200 feet

200 feet

150 feet





































































