

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REPUBLIC OF THE PHILIPPINES

DETAILED ENGINEERING DESIGN STUDY

ON

PAN-PHILIPPINE HIGHWAY IMPROVEMENT PROJECT
(MINDANAO SECTION)

FINAL REPORT

APPENDIX (2/2)

PAVEMENT DISTRESS SURVEY RESULT

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MARCH 1997

KATAHIRA & ENGINEERS INTERNATIONAL
NIPPON ENGINEERING CONSULTANTS CO., LTD.

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PAVEMENT DISTRESS SURVEY RESULT

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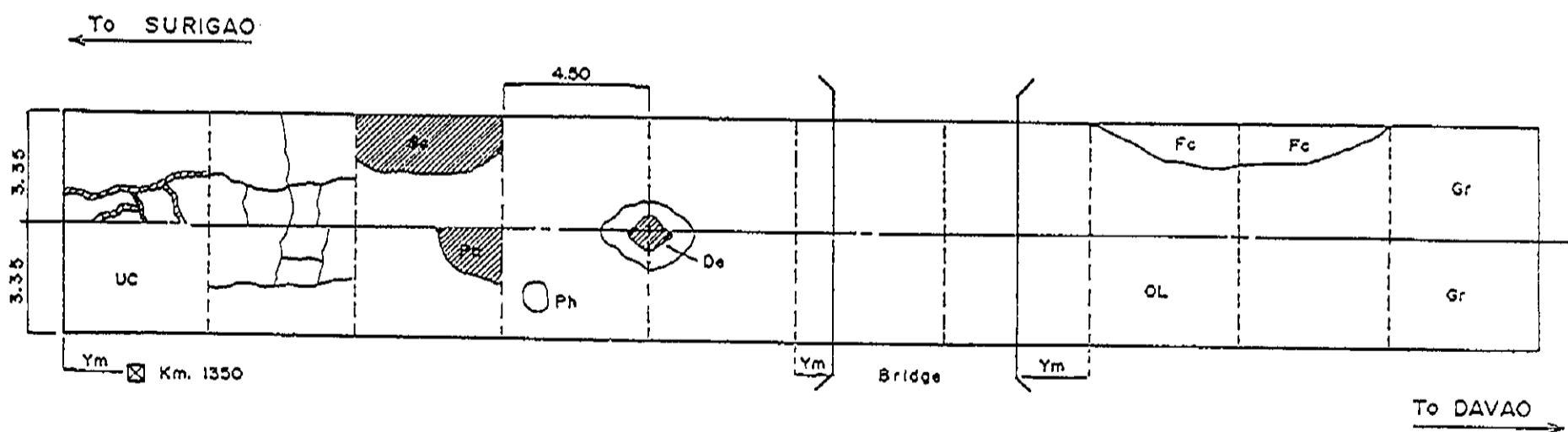


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PAN-PHILIPPINE HIGHWAY IMPROVEMENT PROJECT
(MINDANAO SECTION)

PAVEMENT DISTRESS SURVEY
PACKAGE 10
Km.1324+000 - Km.1349+000

DECEMBER , 1996



LEGENDS :

- | | | | |
|-------------------------|---------------|-------|--|
| 1. Cracks | Open Cracks | — | 8. Overlay - OL |
| | Sealed Cracks | ~~~~~ | (Sketch area of pavement with overlay) |
| 2. Potholes | - Ph | | 9. Under Construction - UC |
| 3. Patching | - Pa | | 10. Gravel - Gr |
| 4. Cracks with Faulting | - Fc | | (Except Under Construction) |
| 5. Scaling | - Sc | | 11. Other Information |
| 6. Depression | - De | | • Kilometer Post |
| 7. Pop out | - Po | | • Bridge |

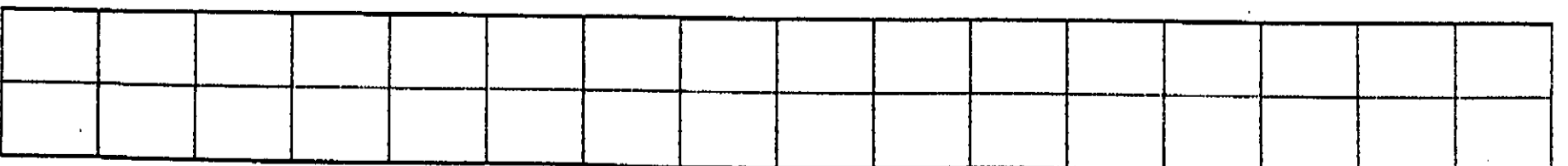
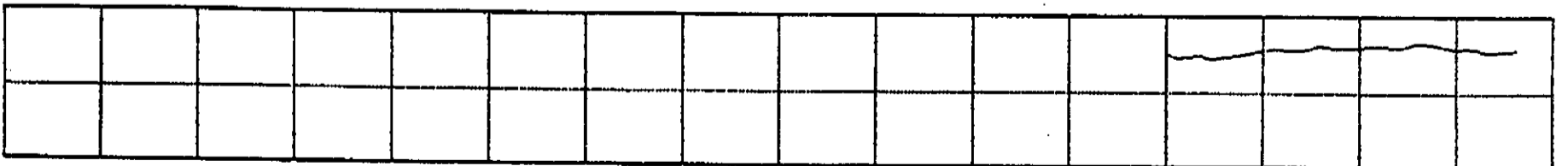
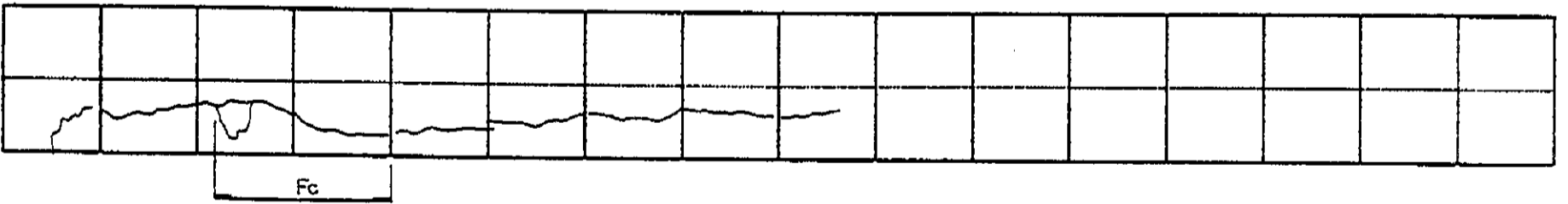
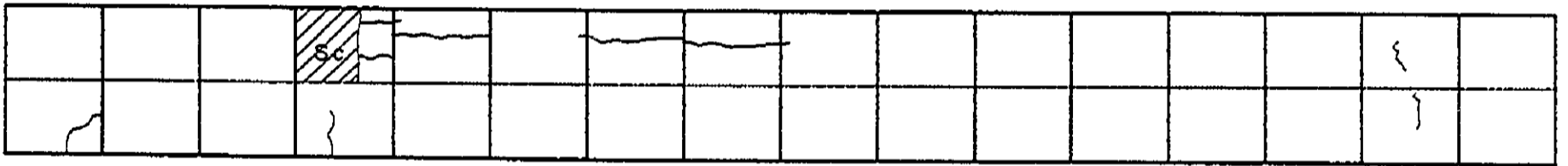
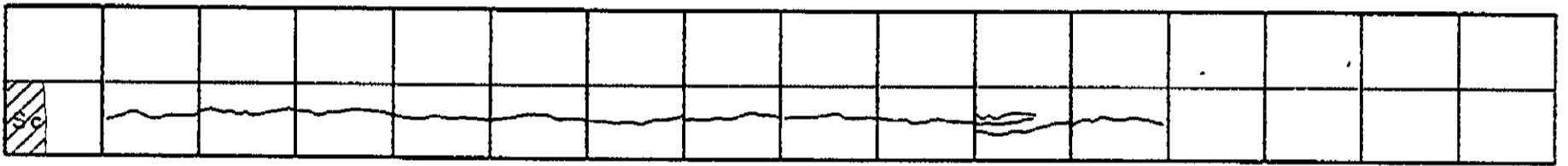
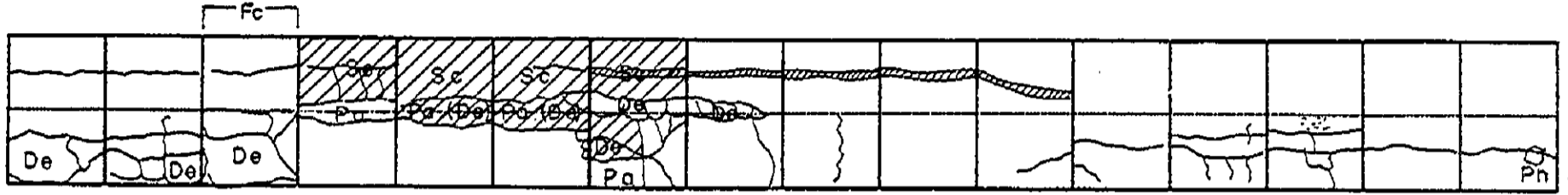
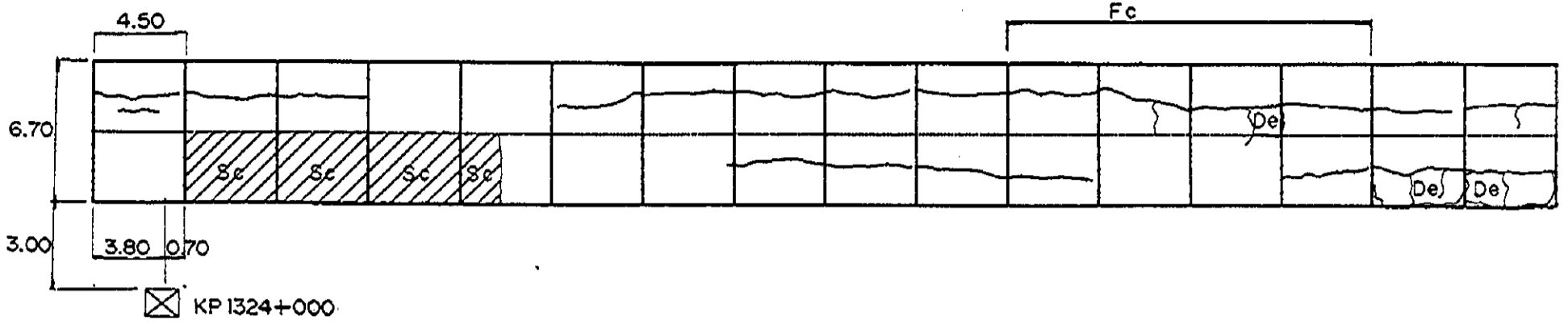
FIGURE 2.1-1 LEGENDS USED FOR SKETCHING PAVEMENT DISTRESS

INVENTORY OF PAVEMENT SURFACE CONDITION

Date: 10-22-95

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Km. 1324 + 000

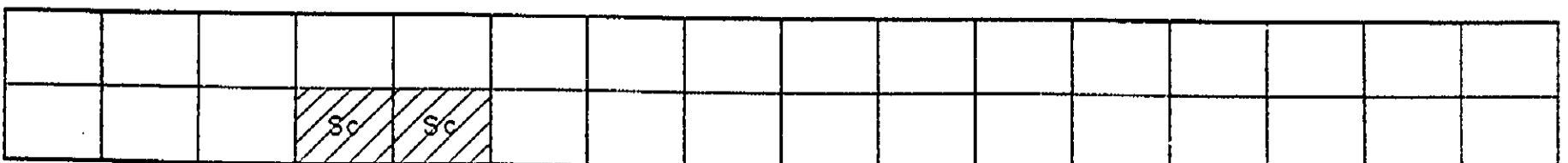
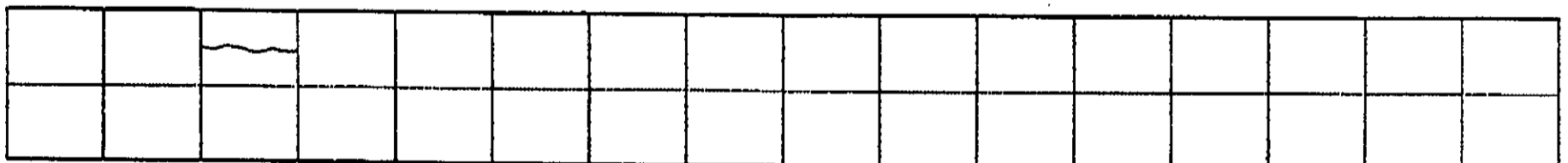
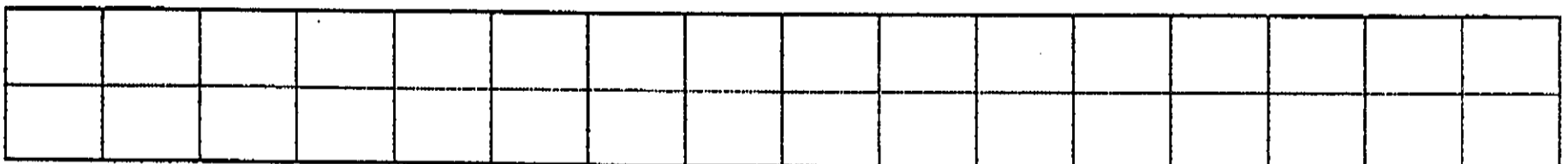
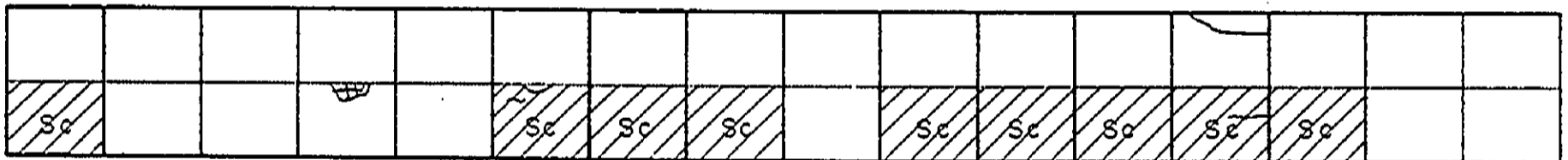
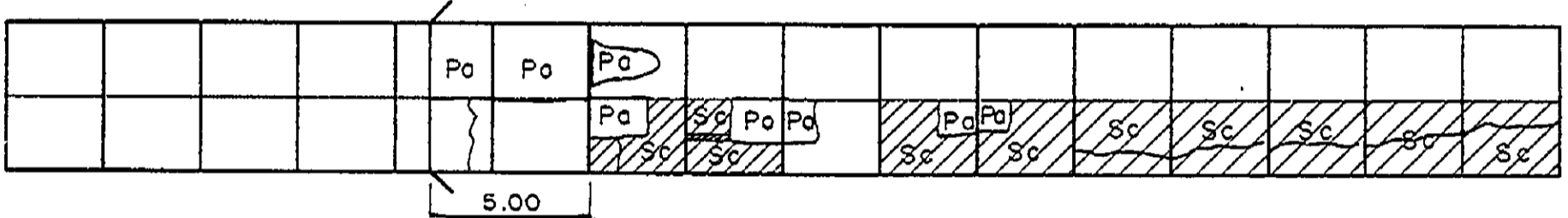
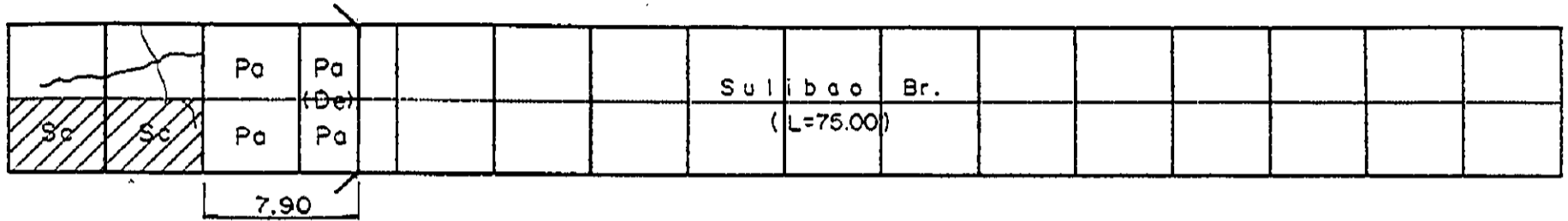
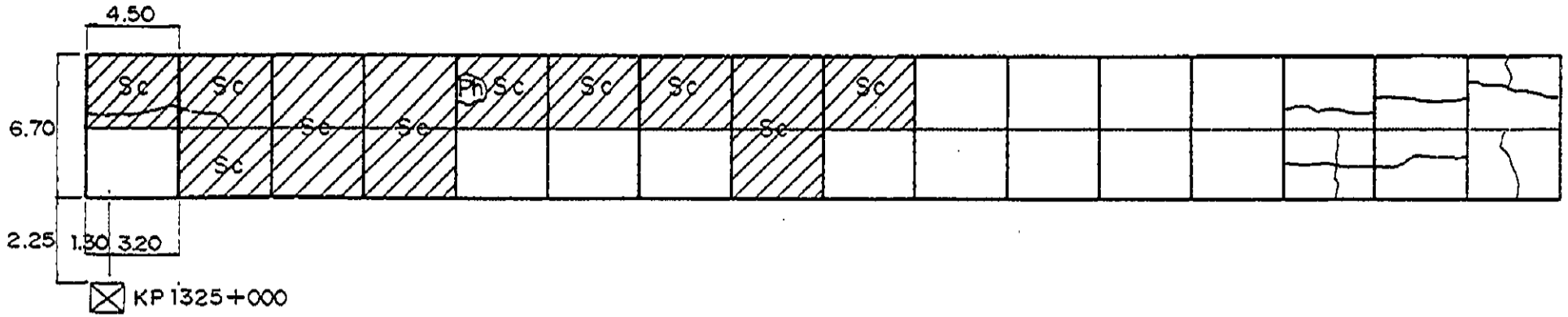


INVENTORY OF PAVEMENT SURFACE CONDITION

Date: 10-23-95

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Km. 1325 + 000



INVENTORY OF PAVEMENT SURFACE CONDITION

Km.1325 + 000

Date : 10- 22- 95

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				A	UC										

										Sc					

Water (Stagnant)

Sc										Sc	Sc	Sc	Sc	Sc	Sc	Sc

Sc	Sc	Sc	Sc	Sc	Sc	Sc										

2.00 2.50 3.50

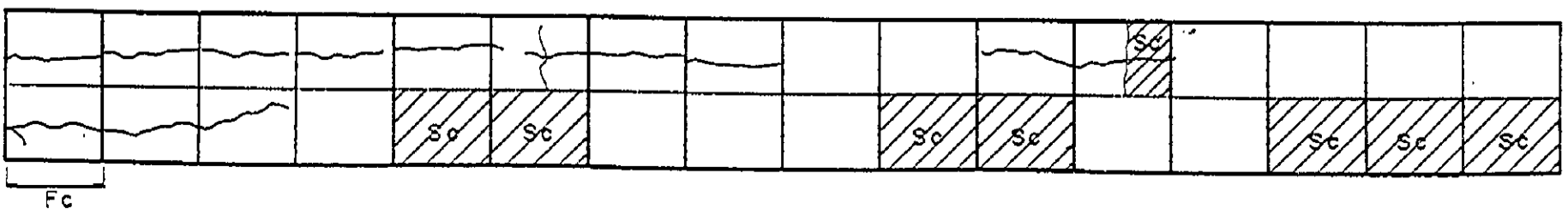
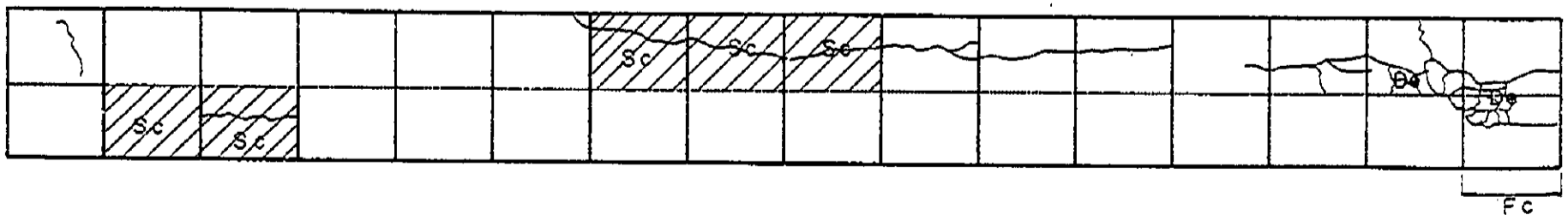
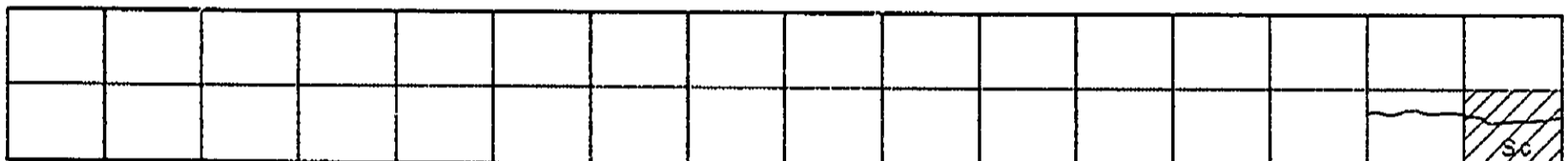
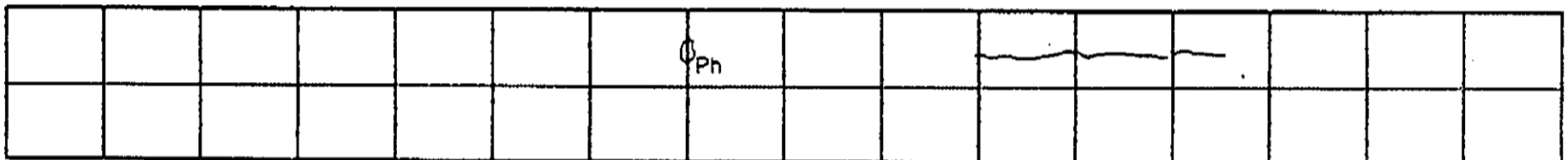
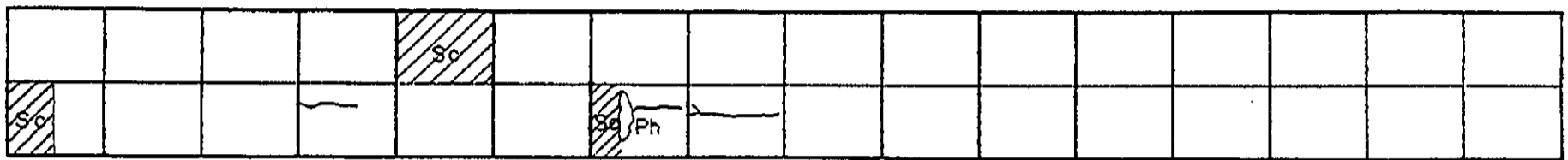
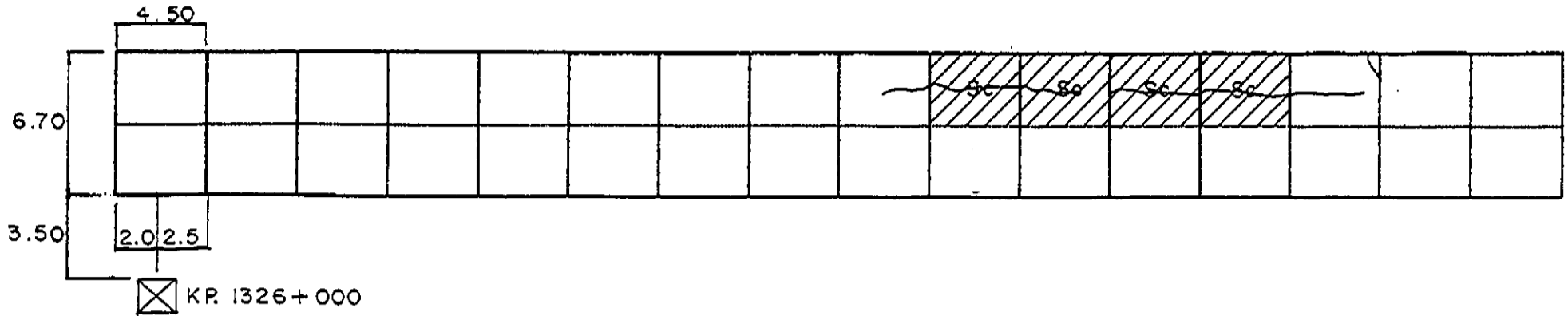
☒ KP 1326+000

INVENTORY OF PAVEMENT SURFACE CONDITION

Date: 10-23-95

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Km. 1326 + 000



INVENTORY OF PAVEMENT SURFACE CONDITION

Km. 1326 + 000

Date: 10 - 23 - 95

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						Sc	Sc	Sc	Sc						
Sc	Sc	Sc													

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				Sc									Sc	Sc	Sc

Sc	Sc	Sc	Sc	Sc	Sc							Sc	Sc		

			Sc	Sc	Sc	Sc	Sc	Sc	Sc	Sc	Sc	Sc	Sc	Sc	Sc

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2.85

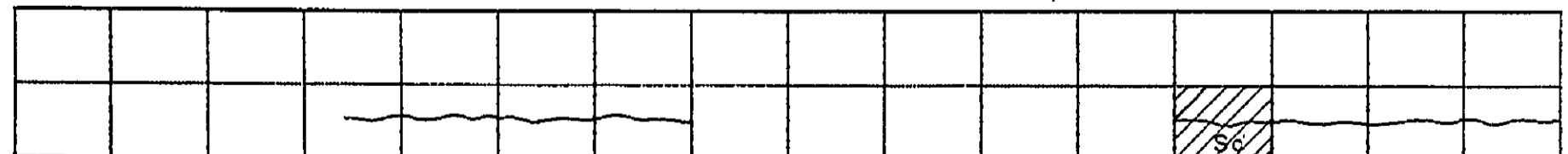
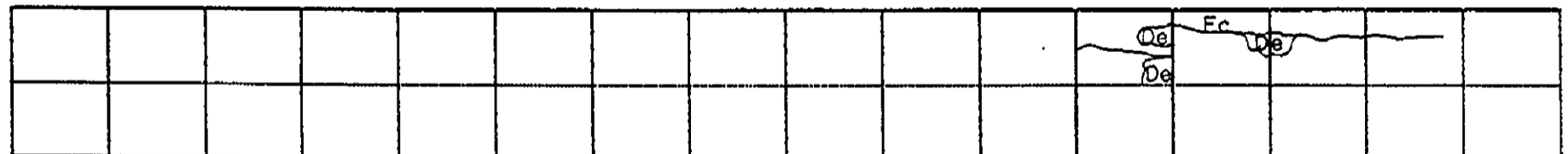
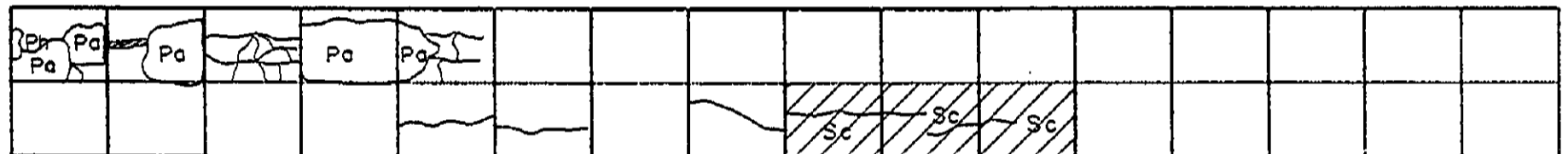
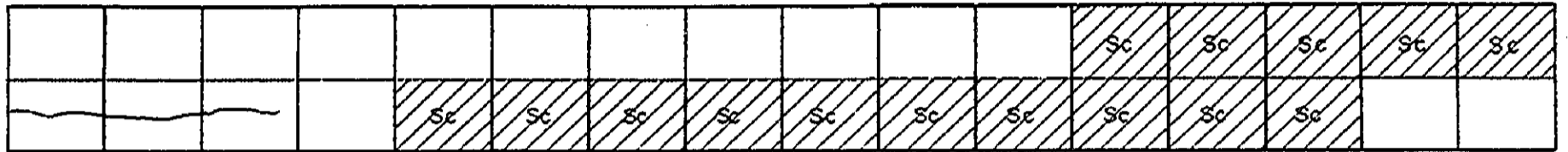
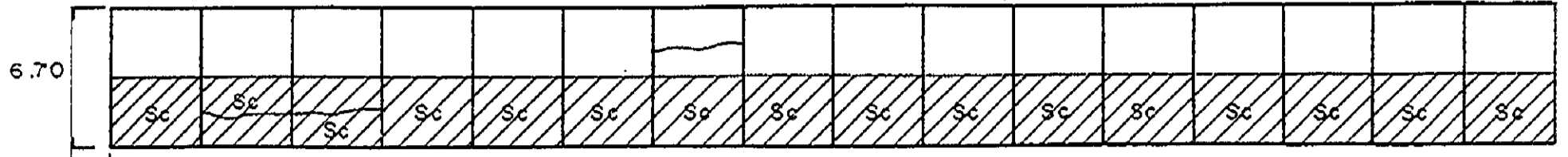
☒ KP. 1327 + 000

INVENTORY OF PAVEMENT SURFACE CONDITION

Date : 10-23-95

Km. 1327+000

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INVENTORY OF PAVEMENT SURFACE CONDITION

Km. 1327 + 000

Date: 10-23-95

Sheet No: 2/3

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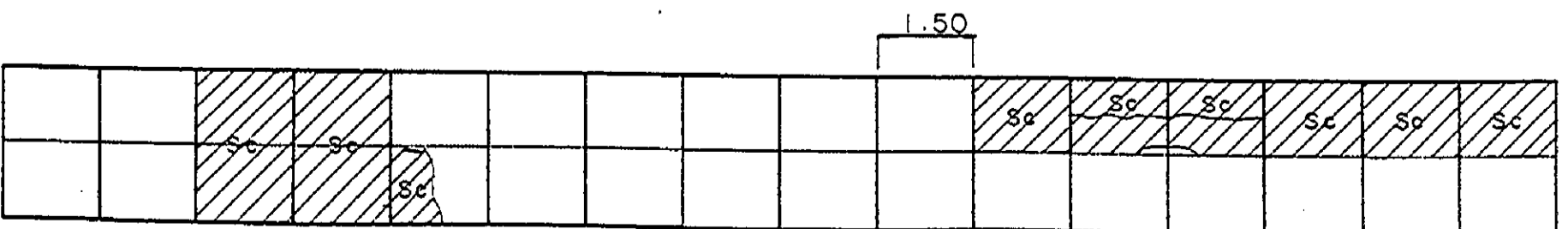
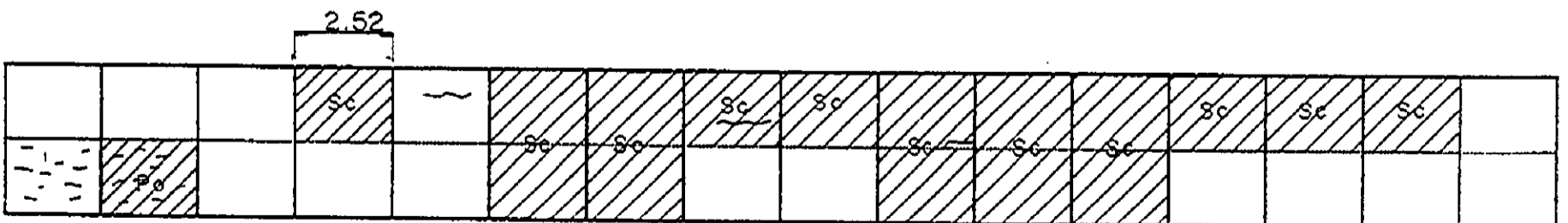
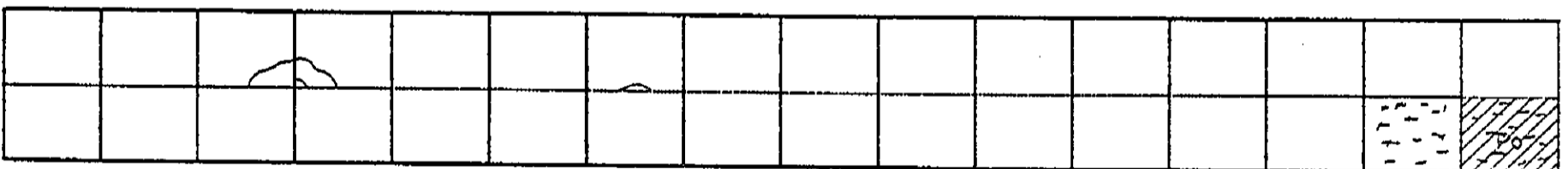
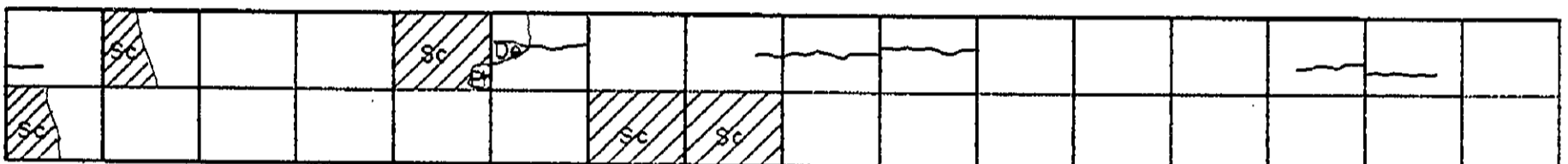
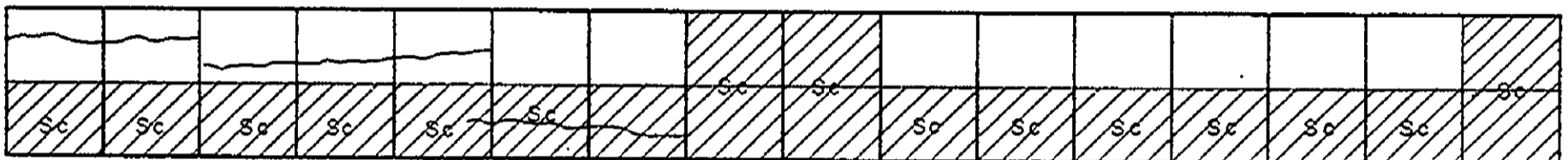
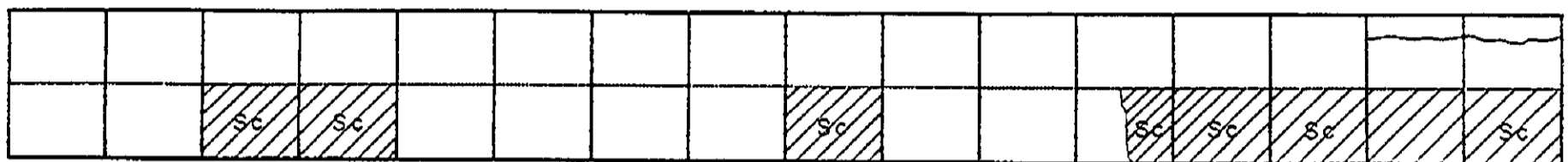
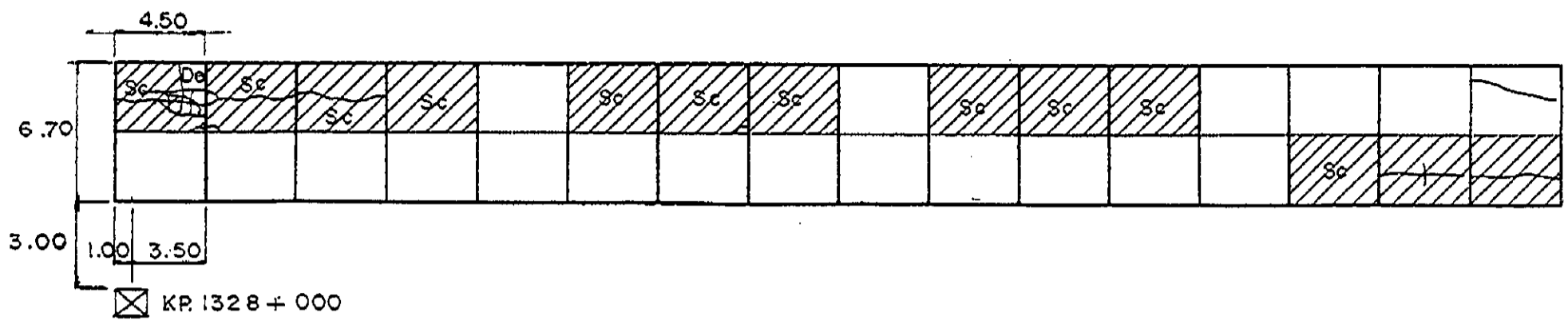
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INVENTORY OF PAVEMENT SURFACE CONDITION

Date : 10-23-95

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Km.1328+000

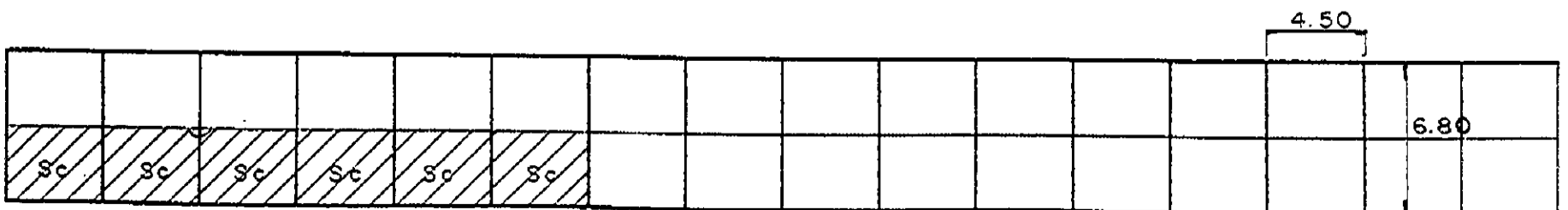
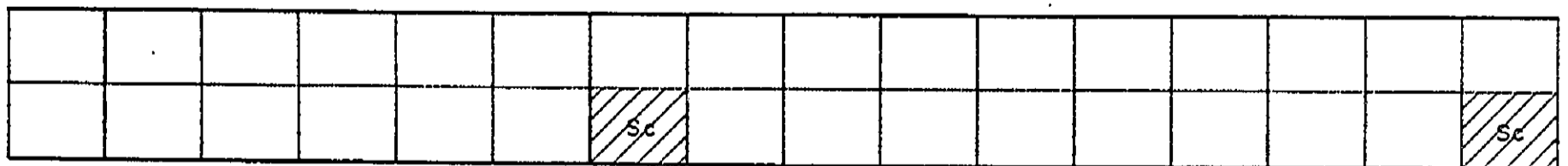
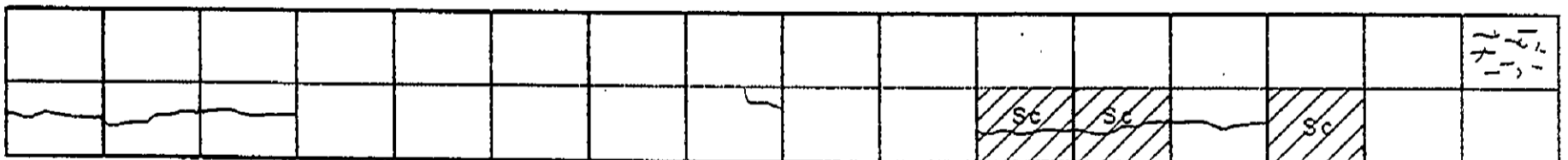
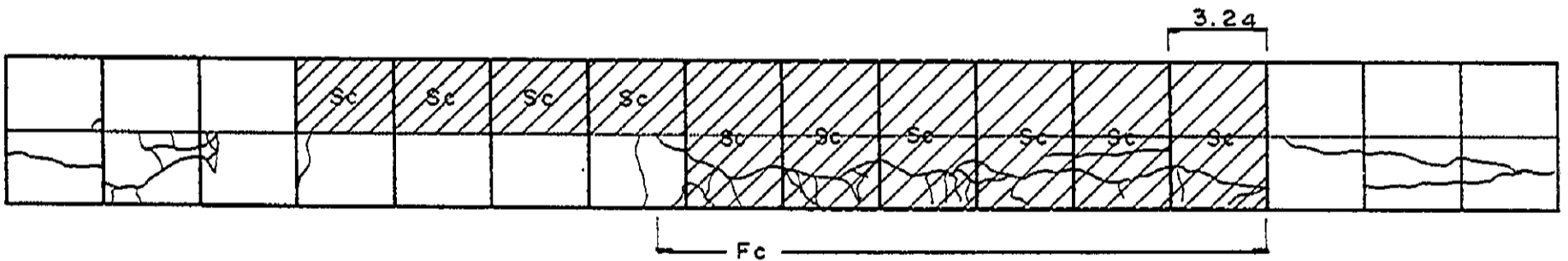
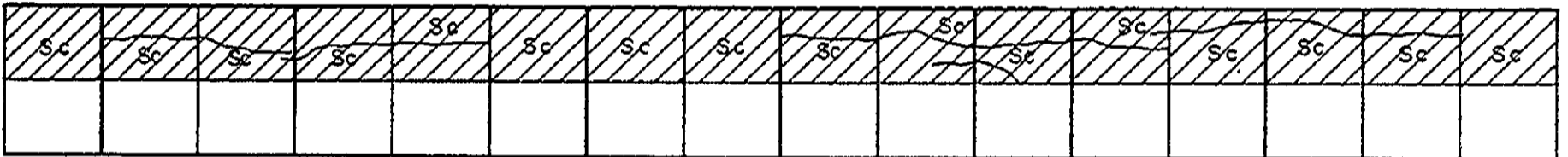
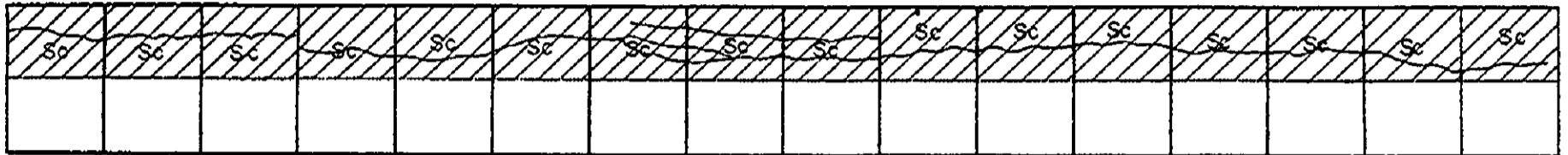
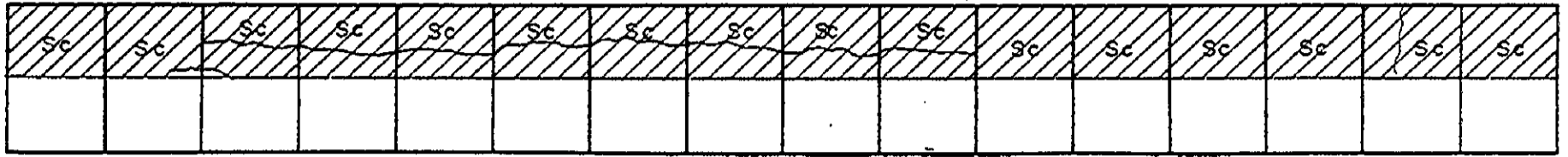


INVENTORY OF PAVEMENT SURFACE CONDITION

Km.1328+000

Date: 10-23-95

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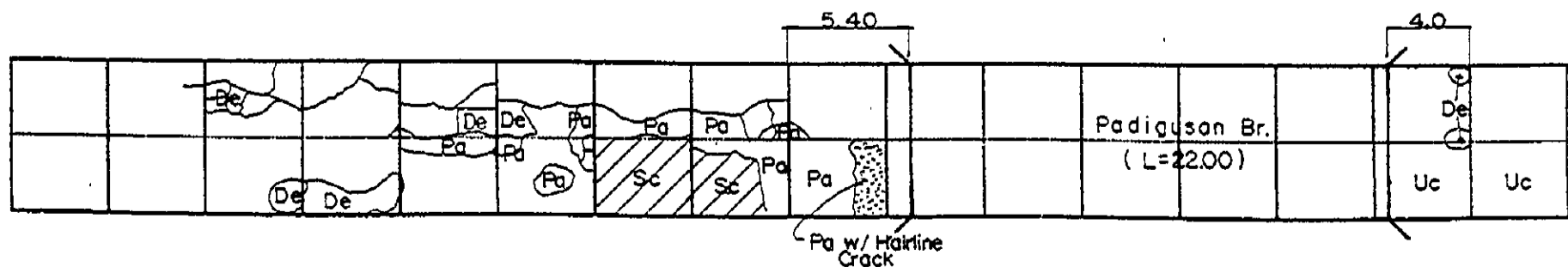
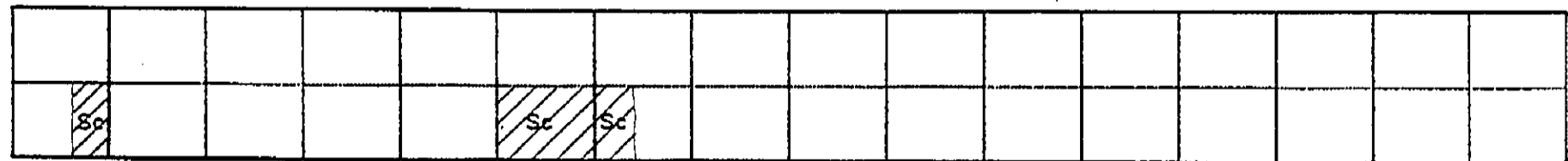
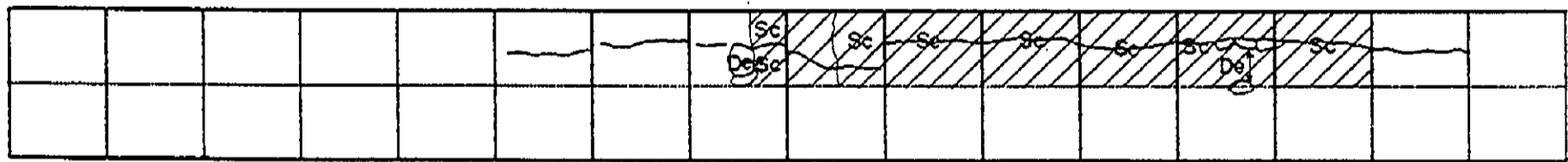
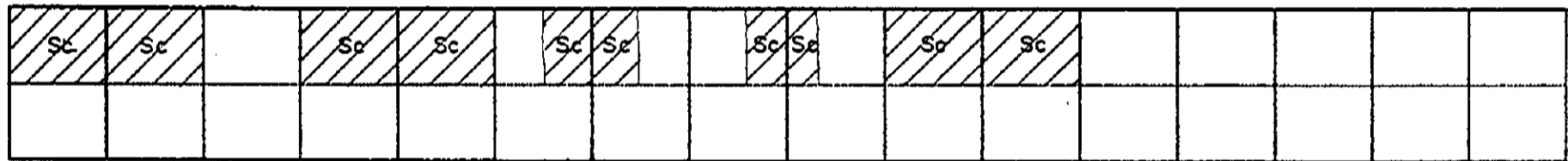
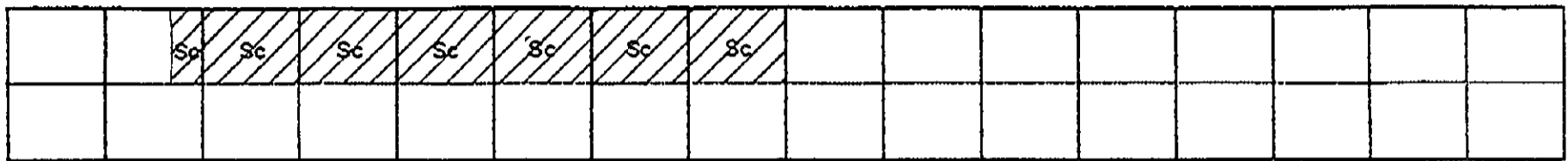
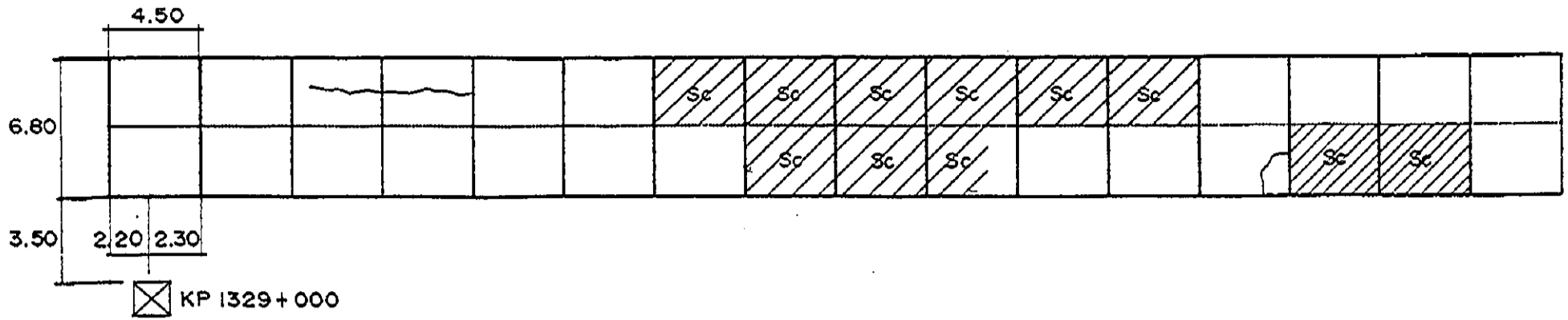
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 ⊠ KP, 1329+000

INVENTORY OF PAVEMENT SURFACE CONDITION

Date : 10-23-95

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Km. 1329+000

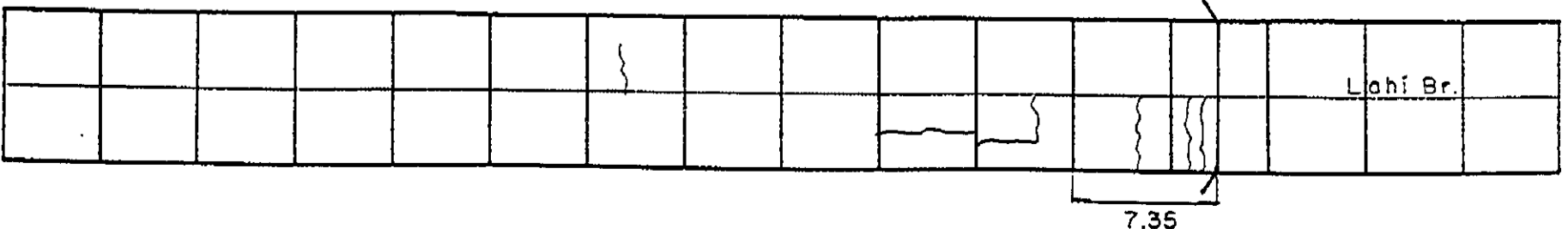
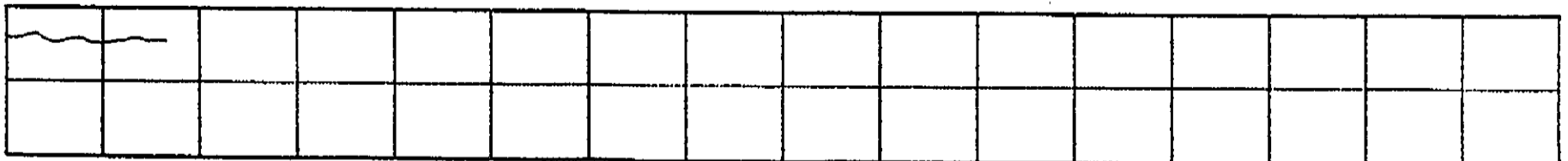
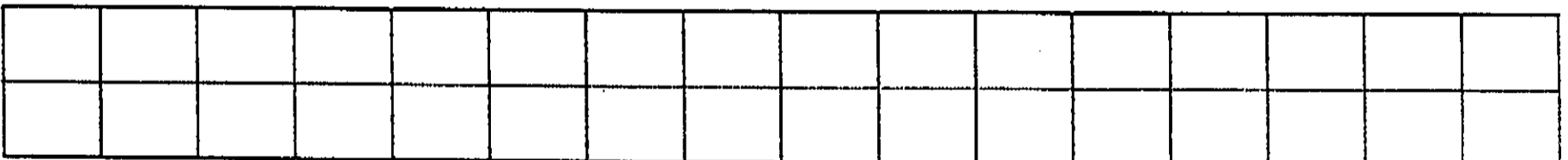
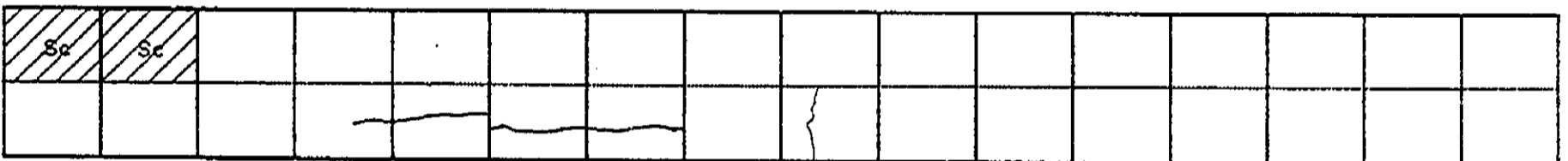
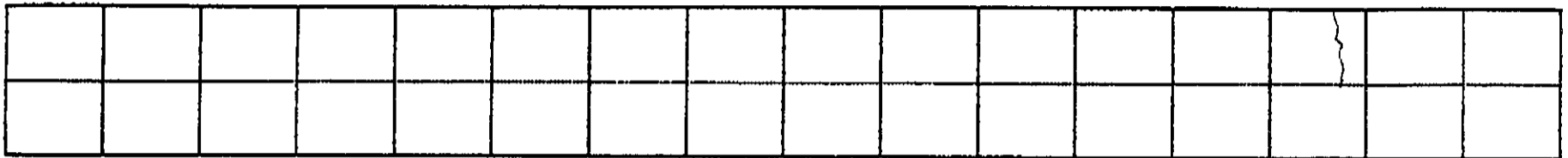
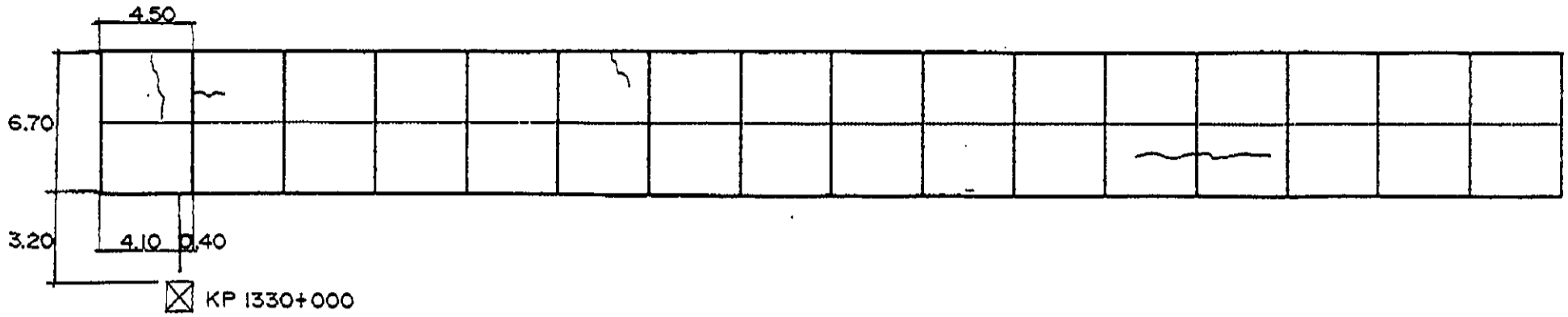


INVENTORY OF PAVEMENT SURFACE CONDITION

Date : 10-23-95

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Km. 1330 + 000



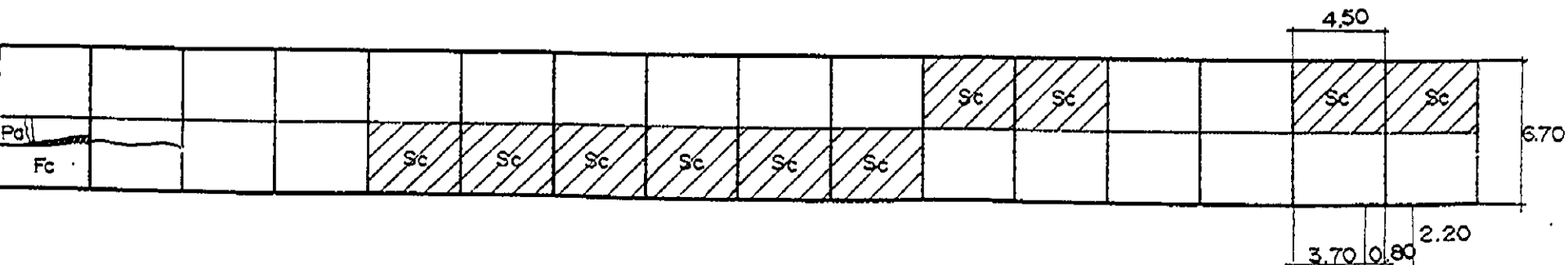
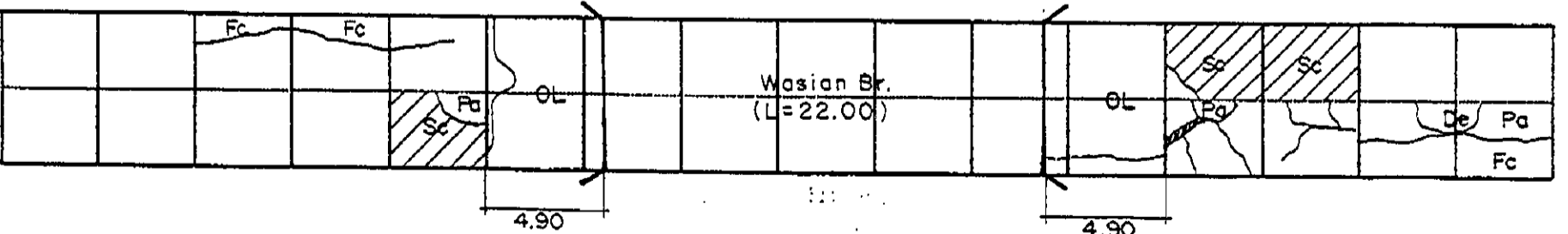
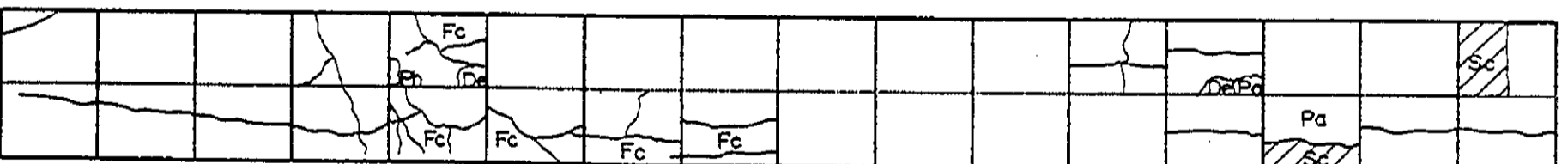
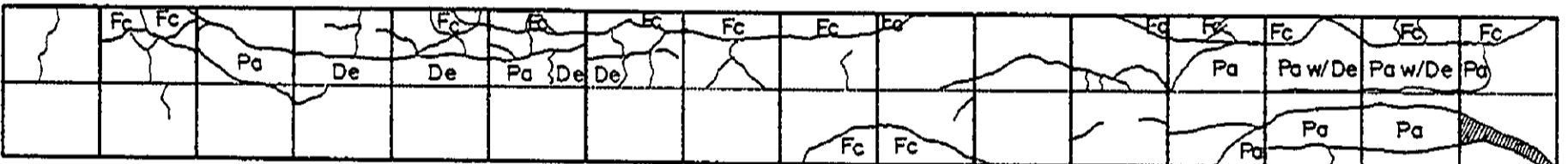
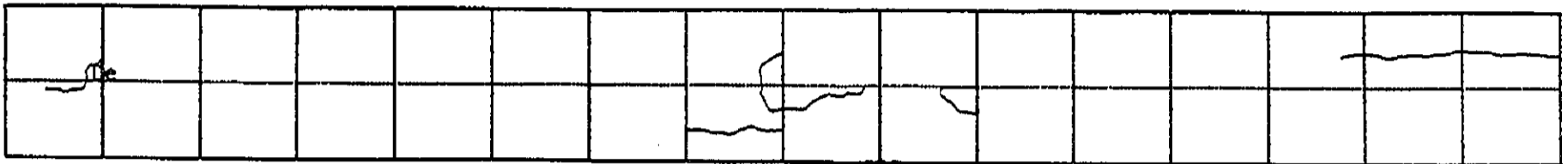
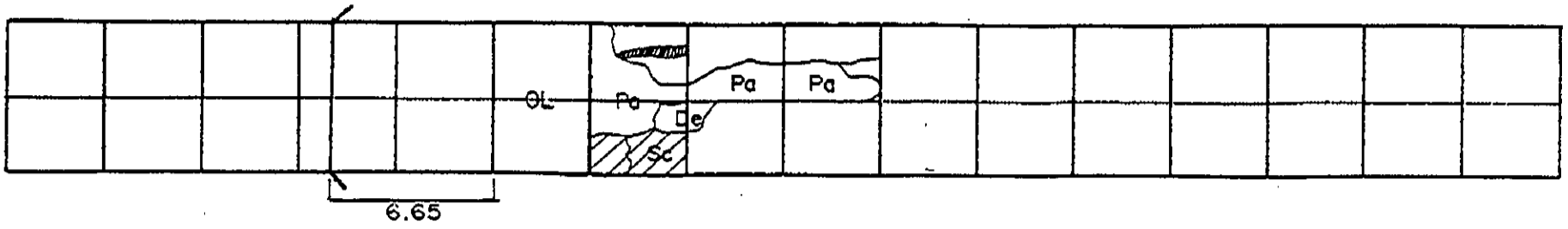
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INVENTORY OF PAVEMENT SURFACE CONDITION

Date : 10-23-95

Km. 1330+000

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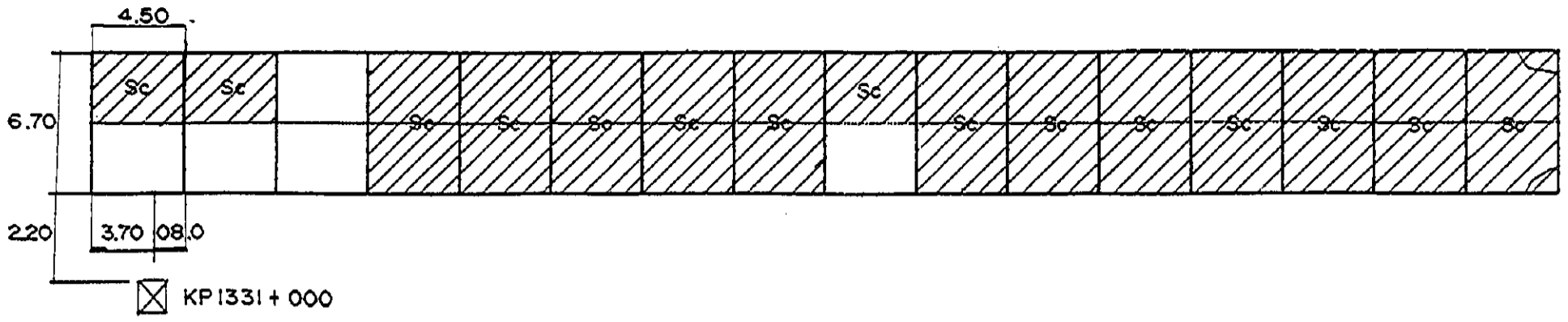
KP1331+000

INVENTORY OF PAVEMENT SURFACE CONDITION

Date: 10-23-95

Km. 1331 + 000 & 1332 + 000

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						Sc	Sc	Sc	Sc							

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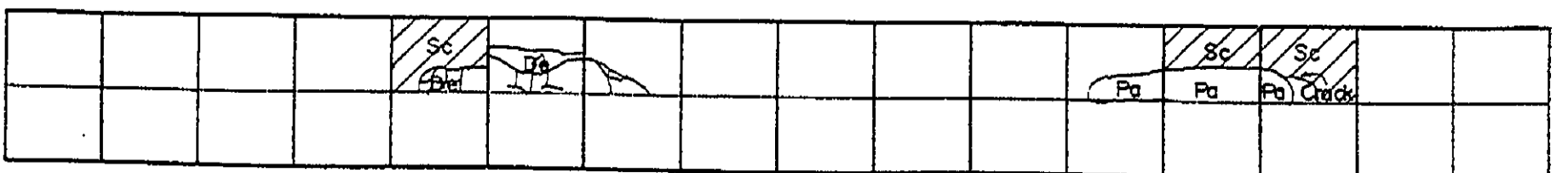
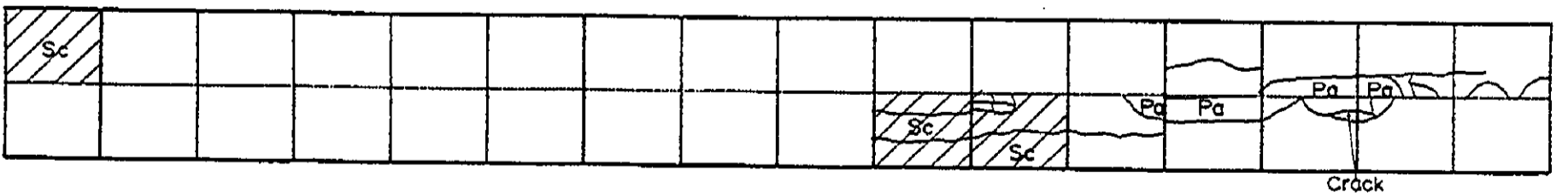
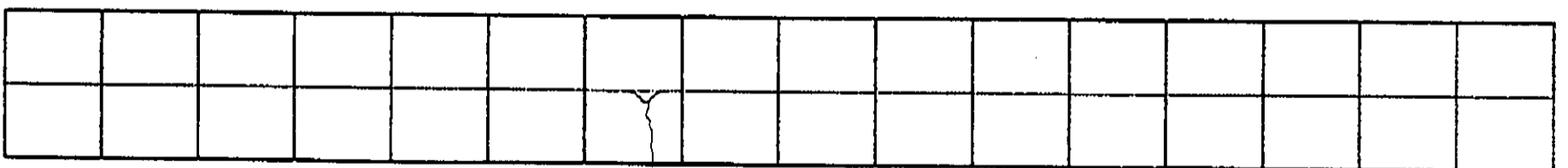
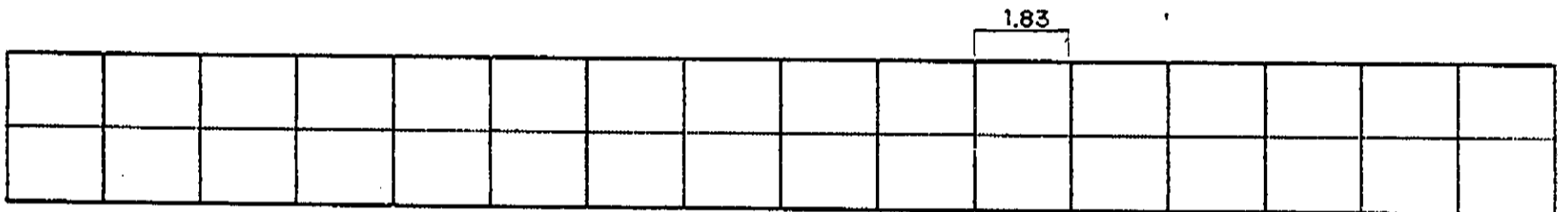
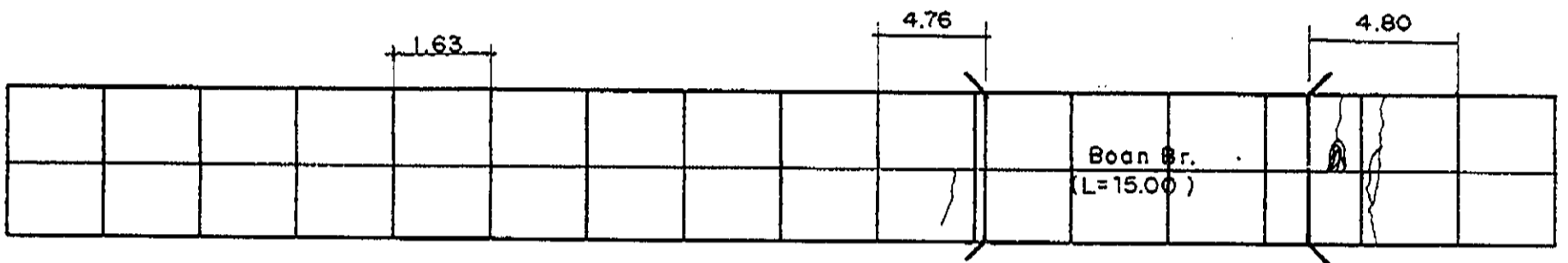
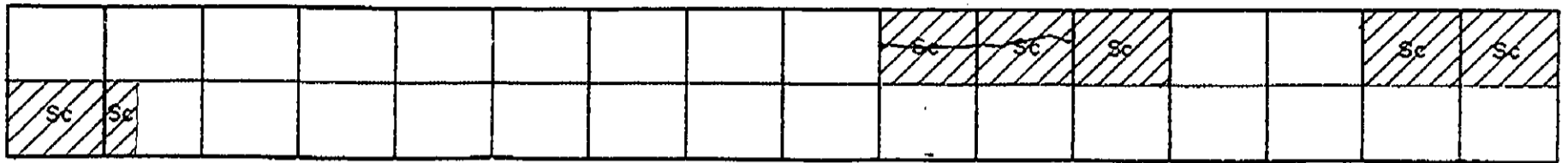
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INVENTORY OF PAVEMENT SURFACE CONDITION

Date : 10-23-95

Km. 1331 + 000 & 1332+000

Sheet No : 2/5





INVENTORY OF PAVEMENT SURFACE CONDITION


Date : 10-23-95

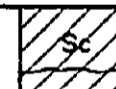
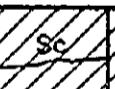
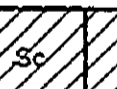
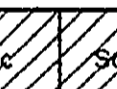
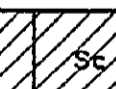
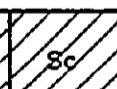
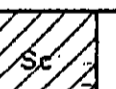

Km. 1331+000 & 1332+000

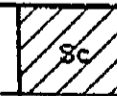
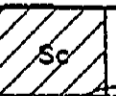
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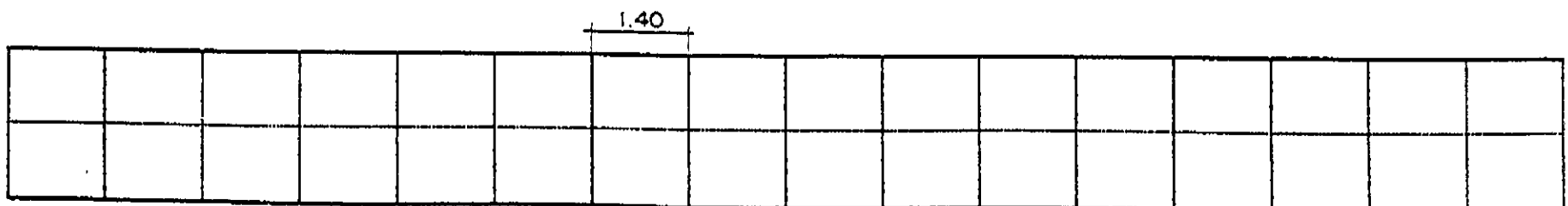
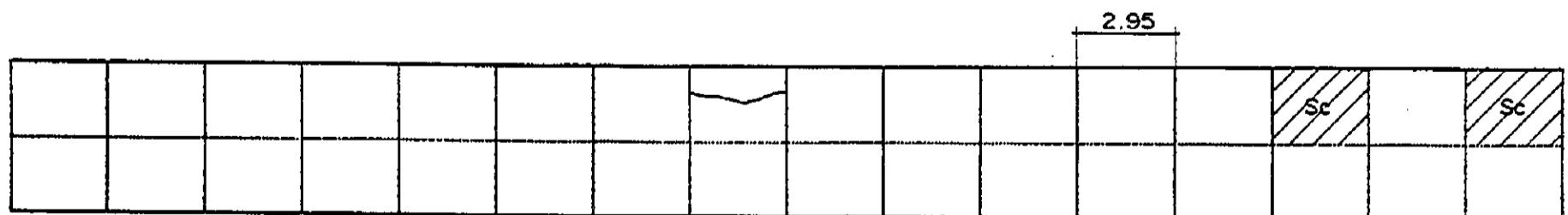
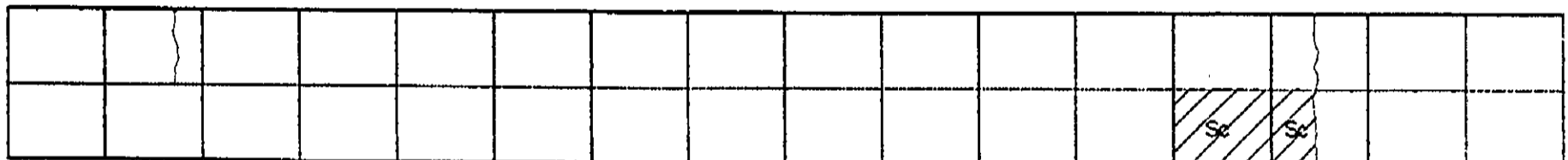
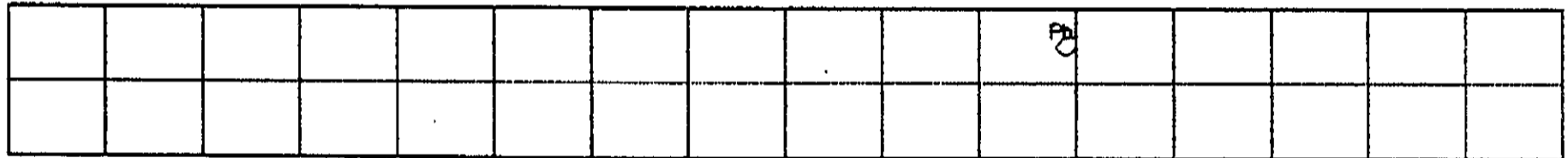
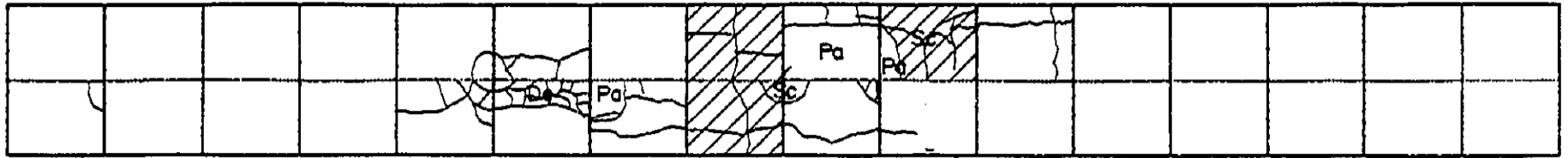
															

INVENTORY OF PAVEMENT SURFACE CONDITION

Km. 1331+000 & 1332+000

Date: 10-23-95

Sheet No: 4/5

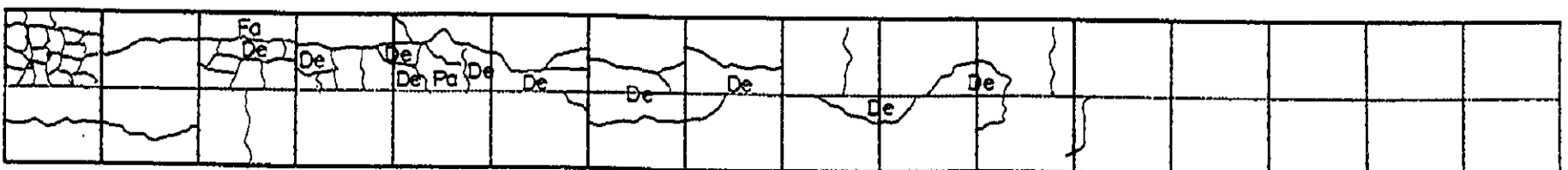
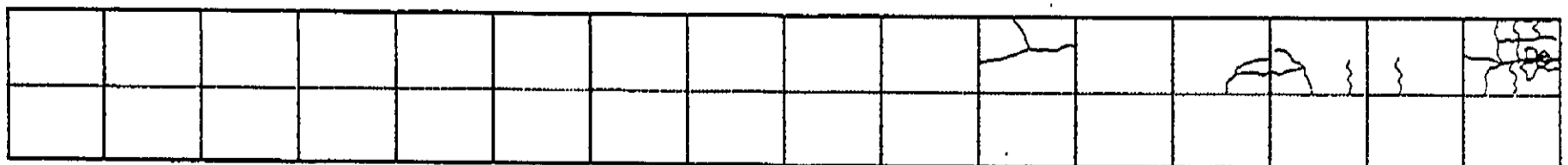
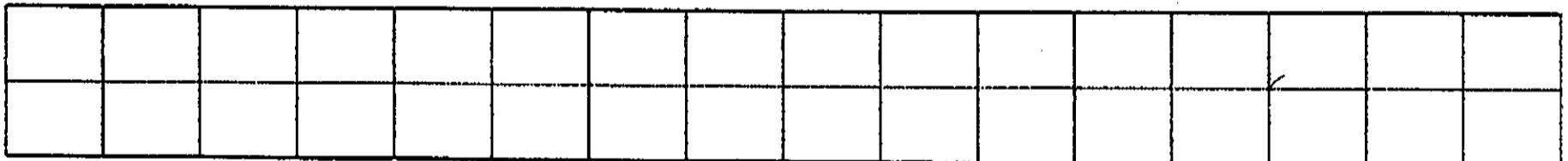
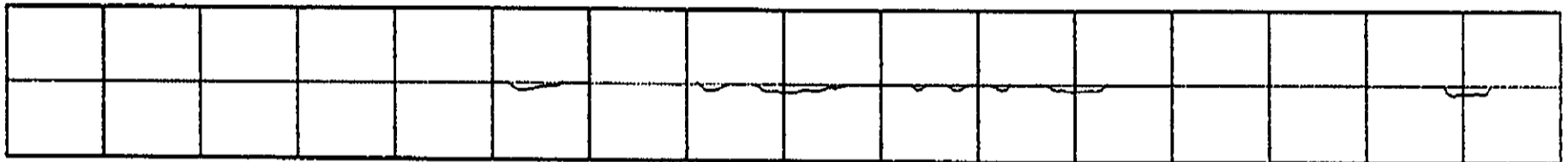
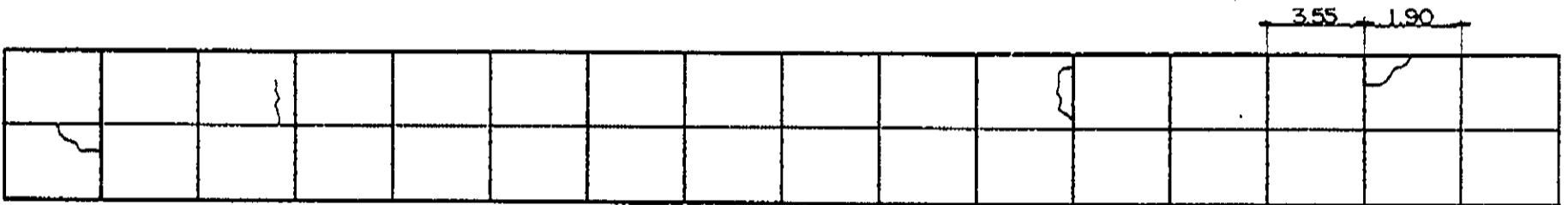
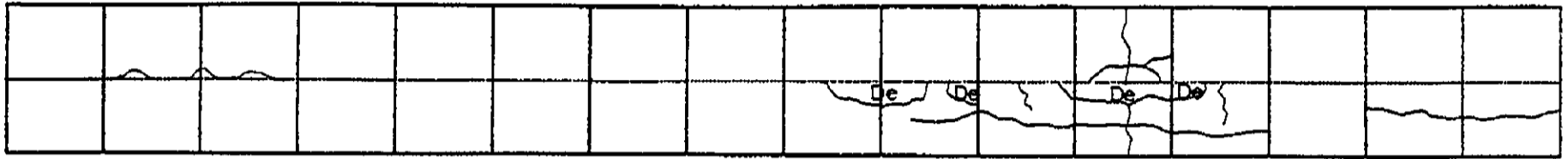
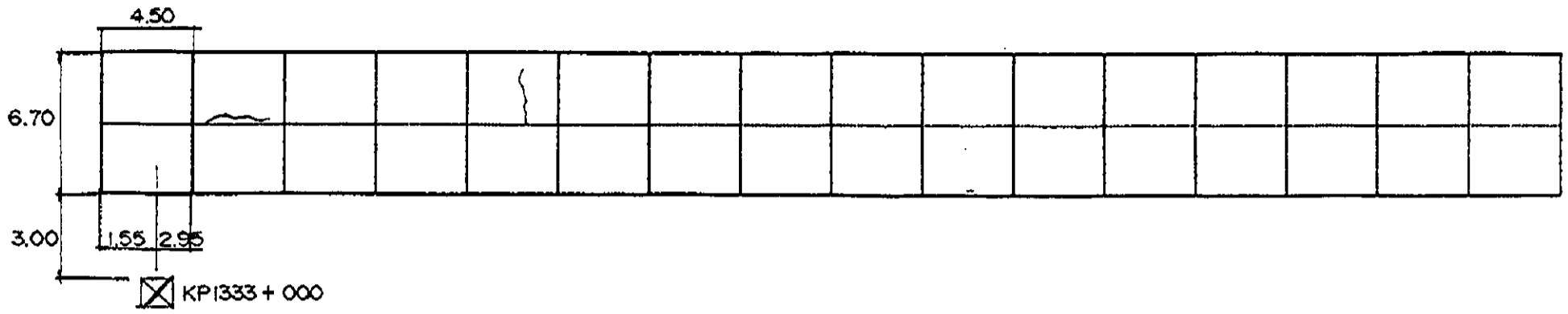


INVENTORY OF PAVEMENT SURFACE CONDITION

Date: 10-23-95

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Km. 1333+000

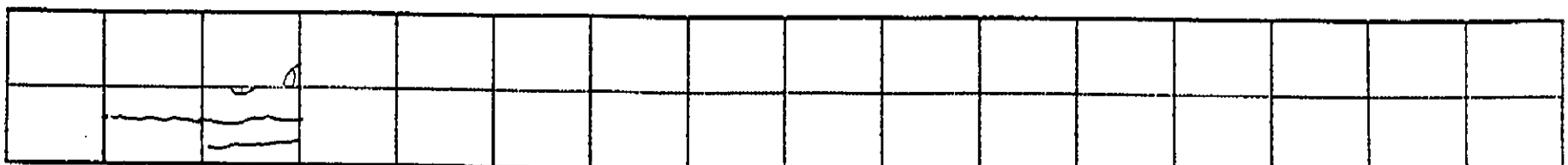
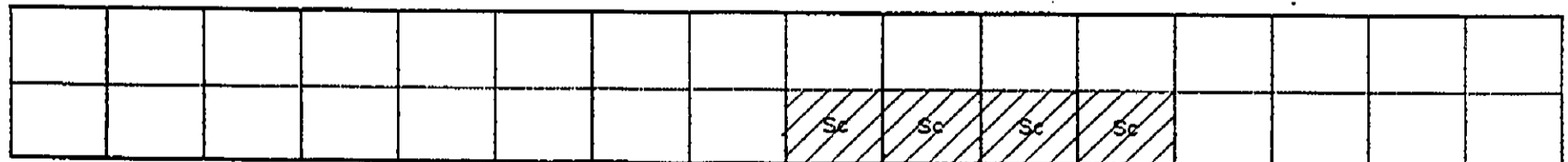
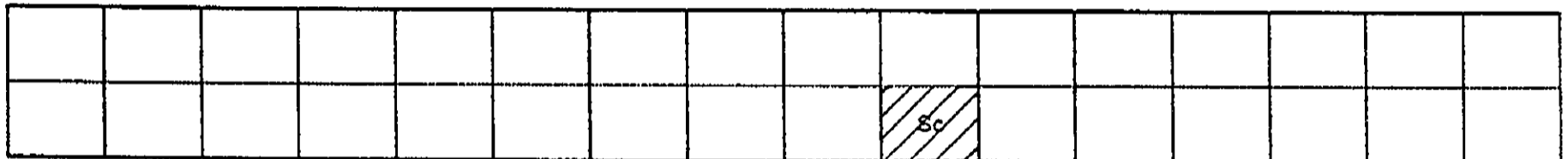
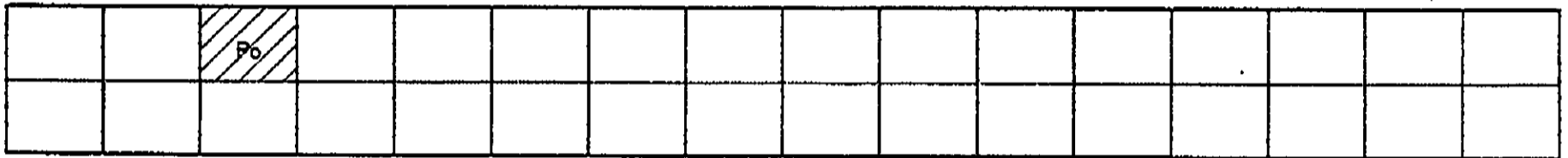
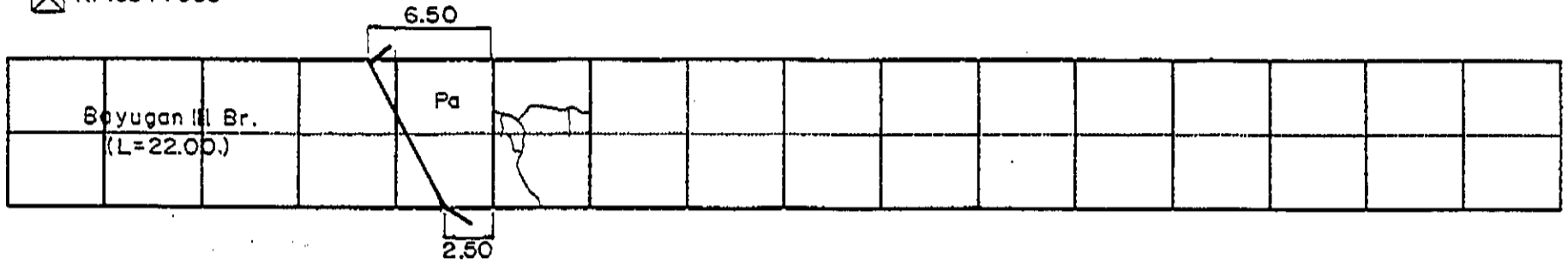
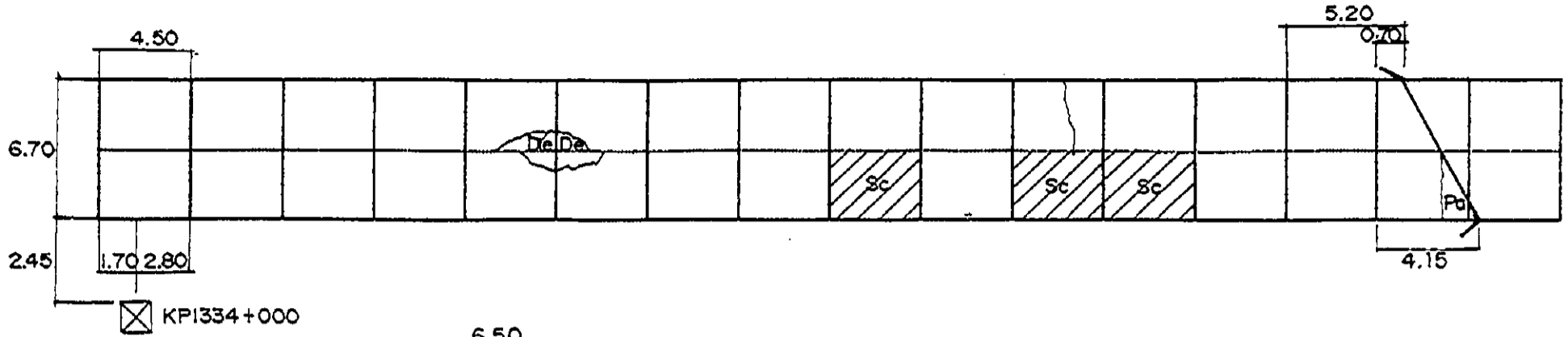


INVENTORY OF PAVEMENT SURFACE CONDITION

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Km. 1334+000

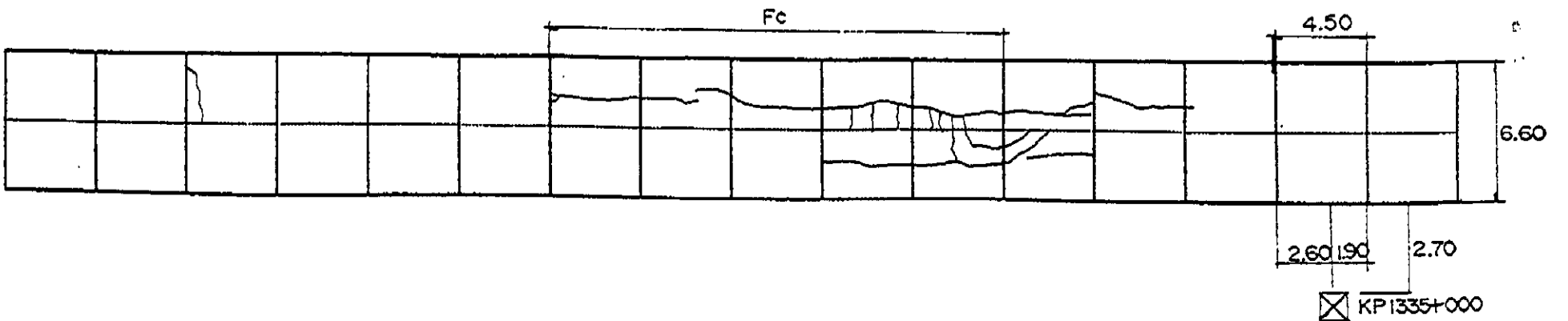
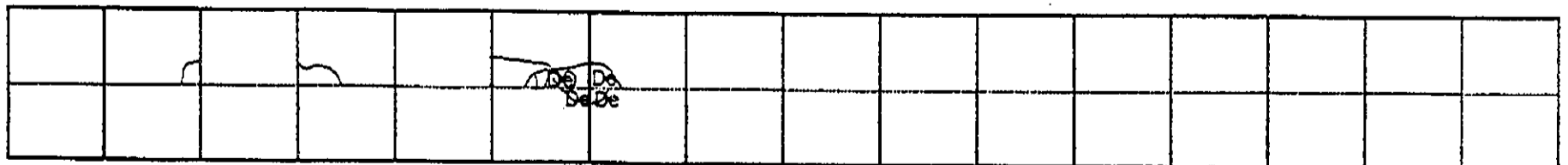
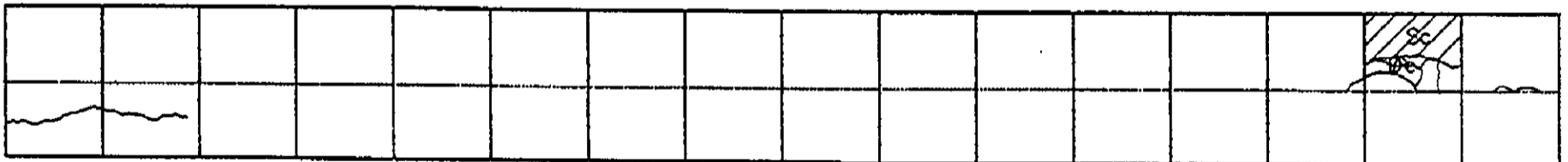
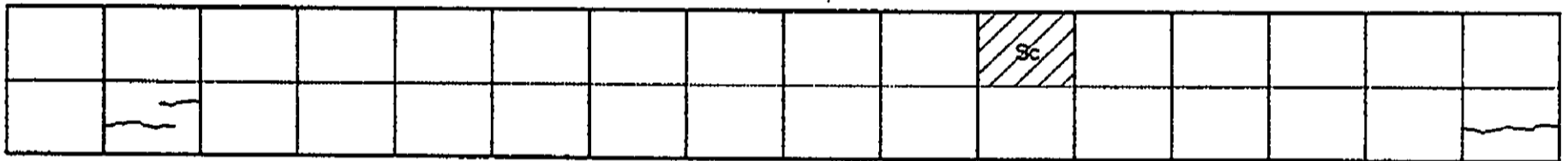
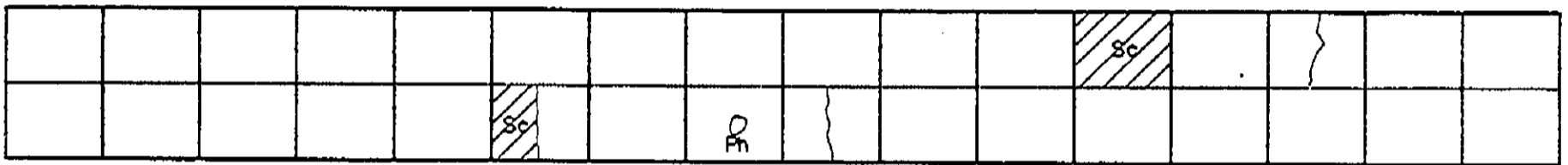
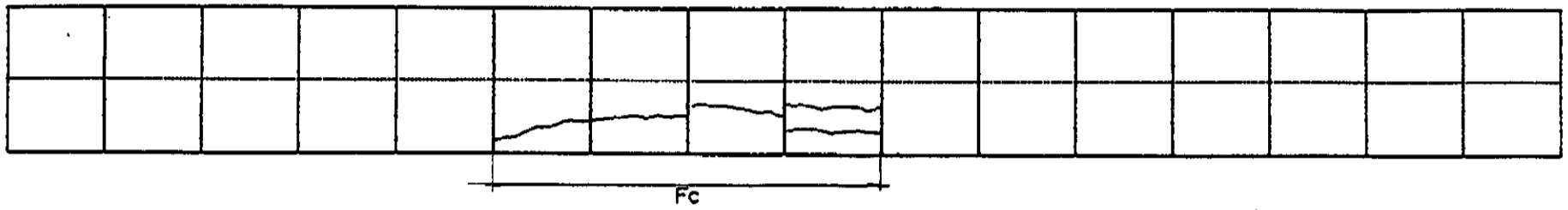
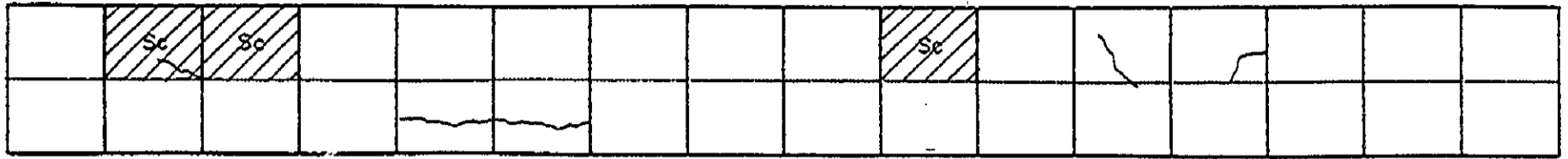


INVENTORY OF PAVEMENT SURFACE CONDITION

Km. 1334+000

Date: 10-23-95

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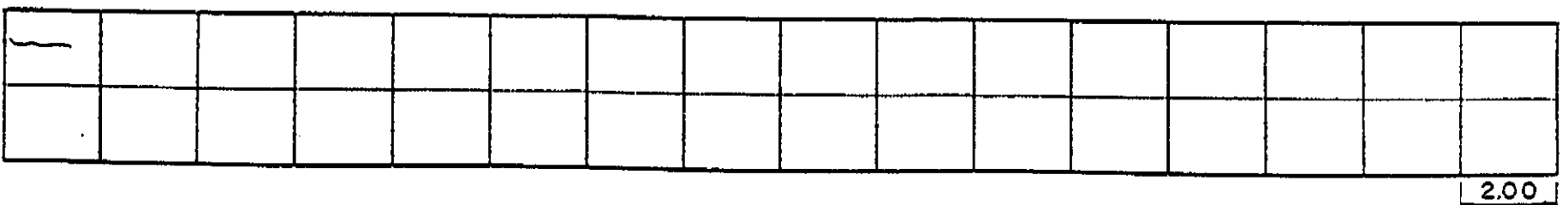
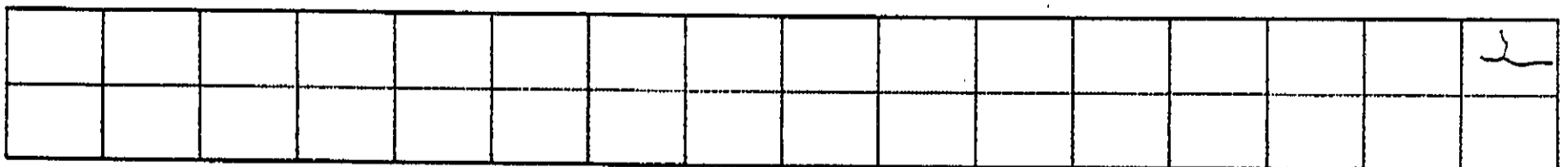
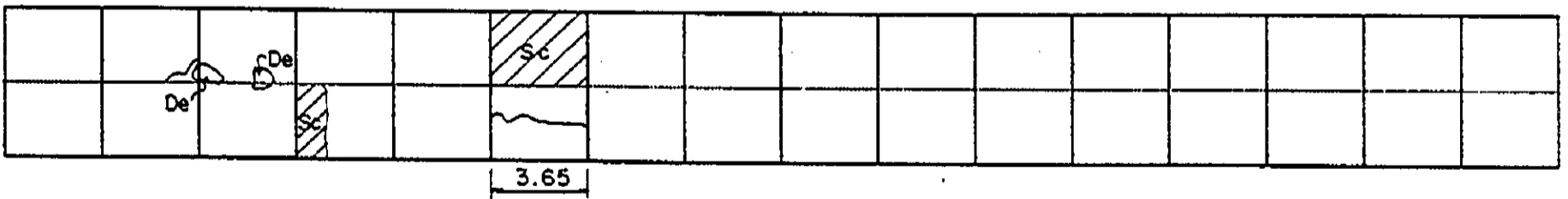
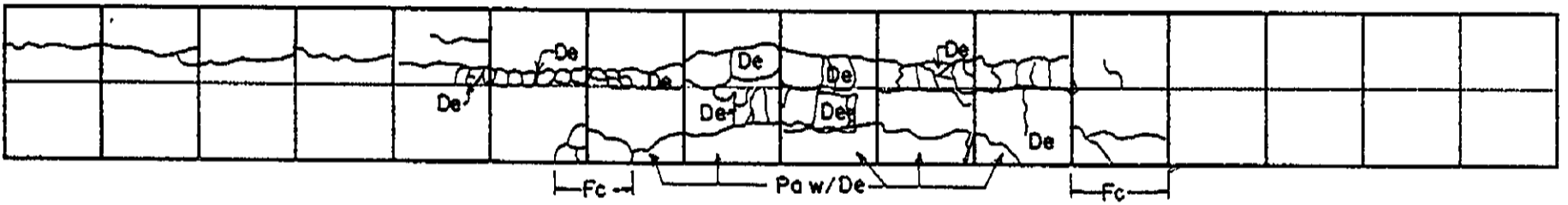
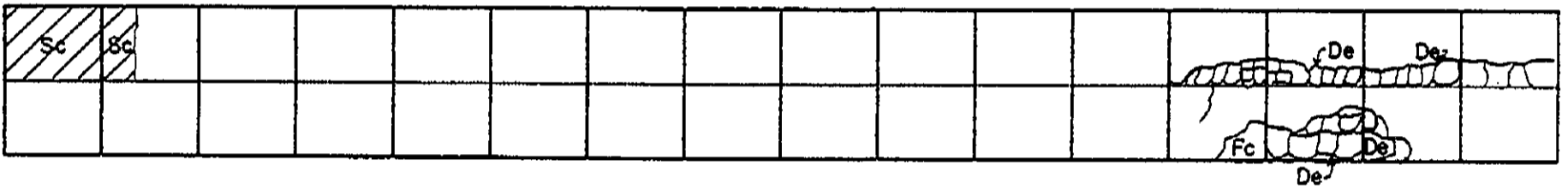
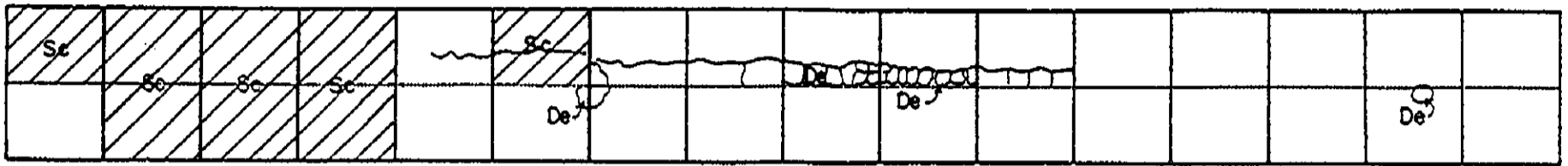
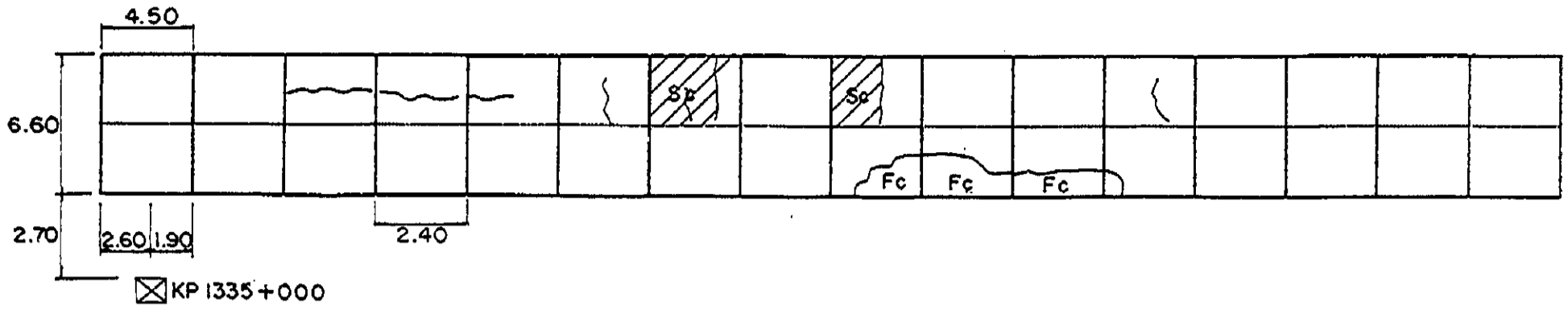


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Km. 1335+000

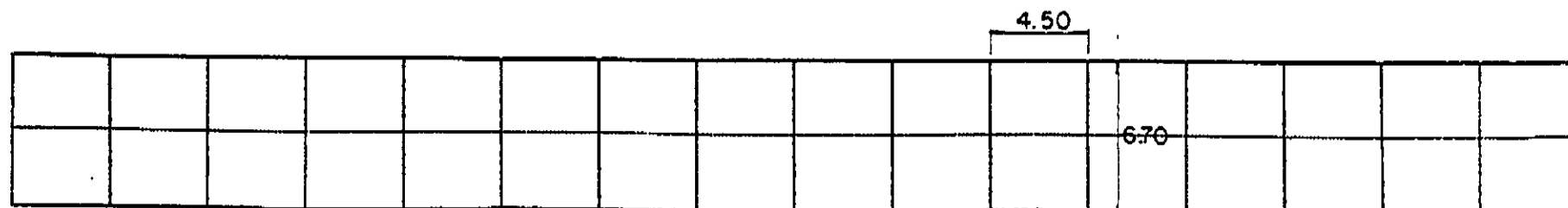
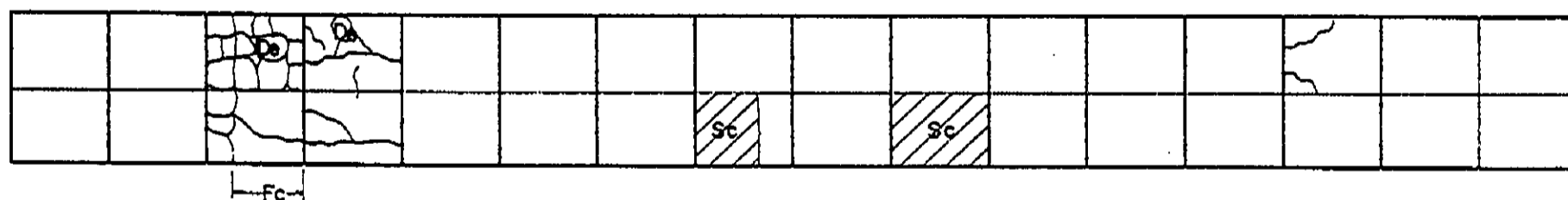
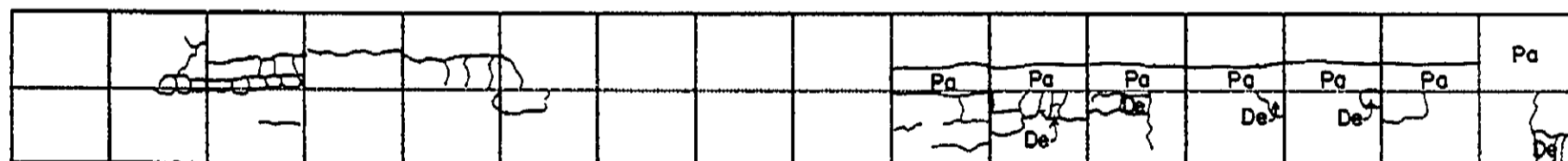
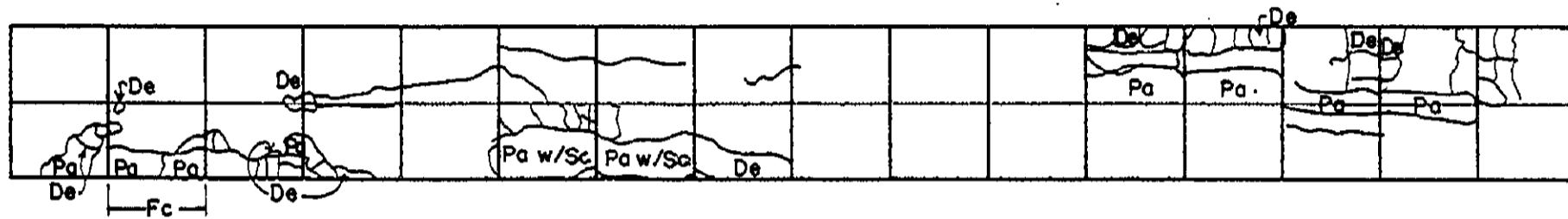
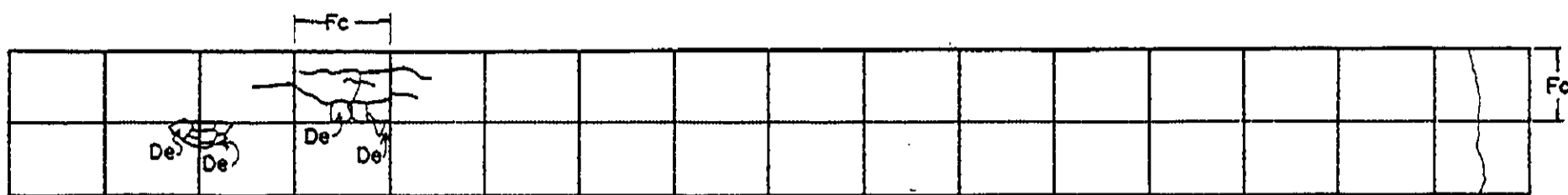


INVENTORY OF PAVEMENT SURFACE CONDITION

Date: 10-23-95

Km. 1335+000

Sheet No: 2/2



2.35 2.15 3.30

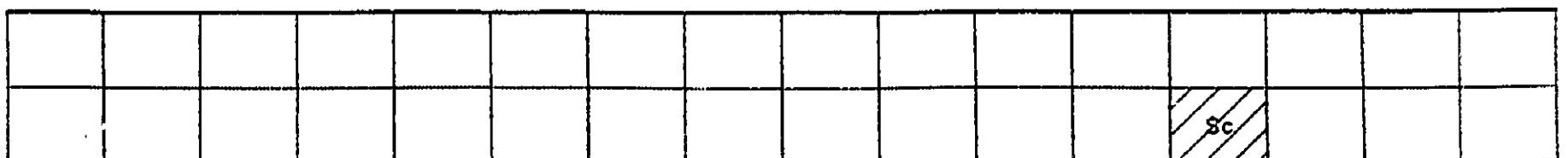
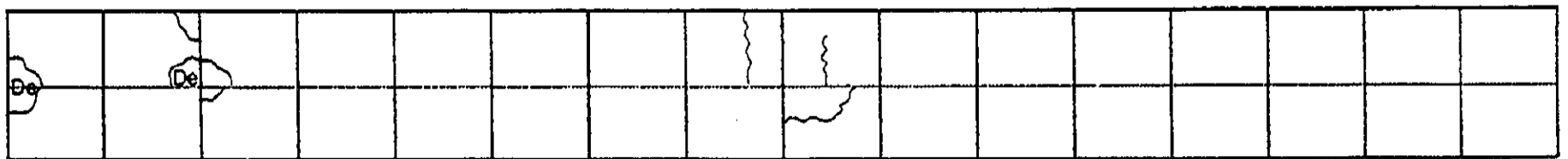
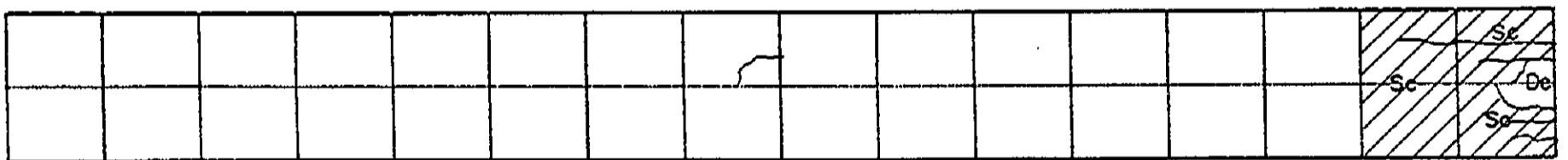
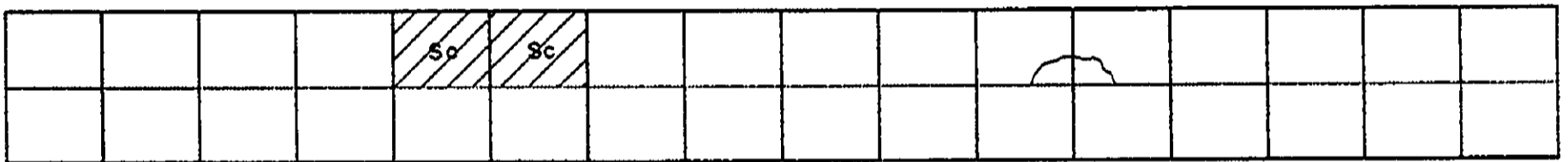
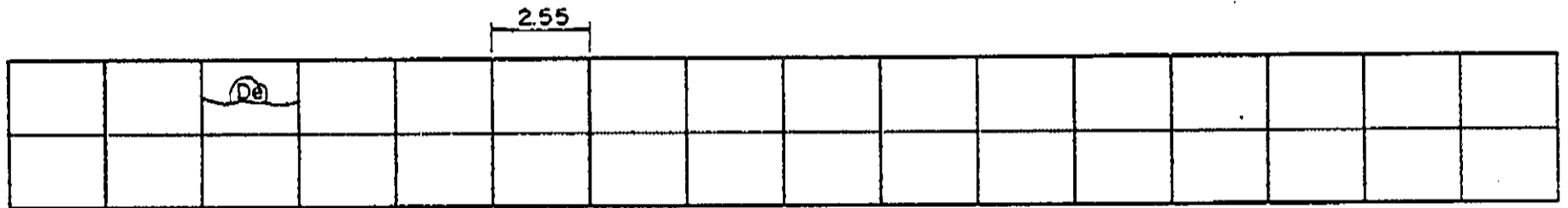
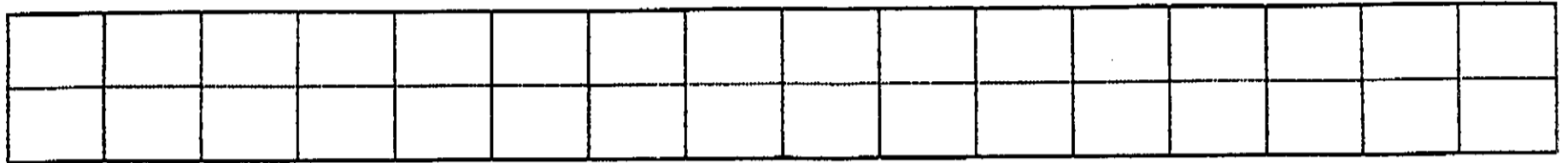
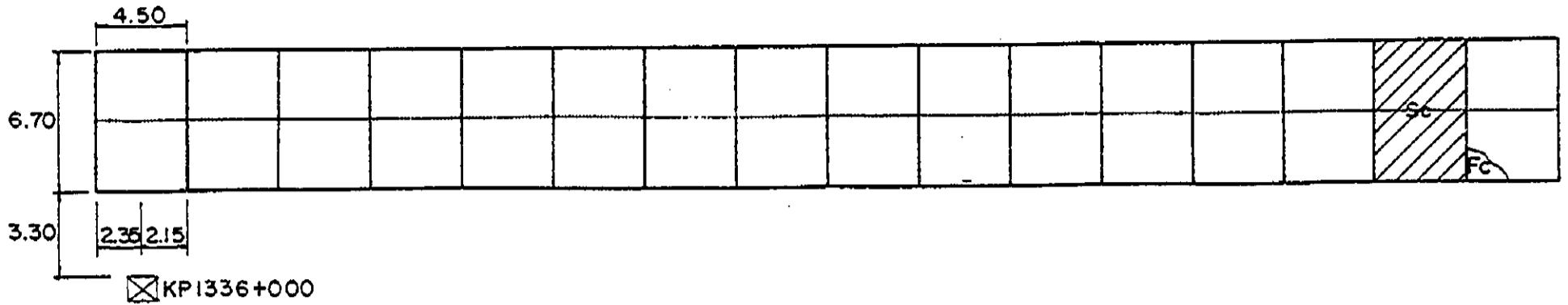
☒ KP1336+000

INVENTORY OF PAVEMENT SURFACE CONDITION

Date : 10-23-95

Sheet No : 1 / 3

Km. 1336 + 000



INVENTORY OF PAVEMENT SURFACE CONDITION

Km. 1336+000

Date: 10-23-95

Sheet No: 2/3

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							2.35							

													3.30	
			De			Fc		Sc						

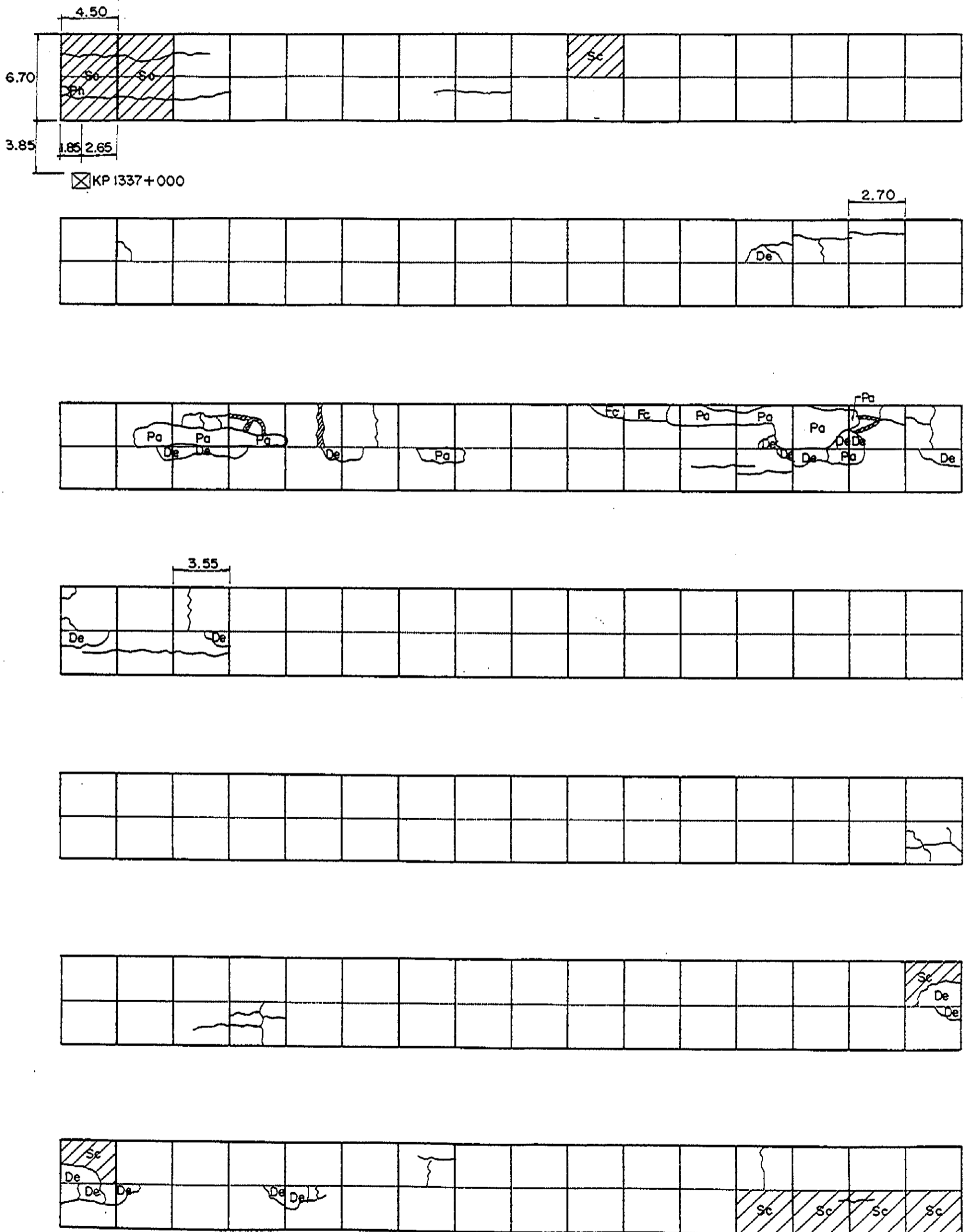
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INVENTORY OF PAVEMENT SURFACE CONDITION

Date: 10 23 95

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Km. 1337 + 000

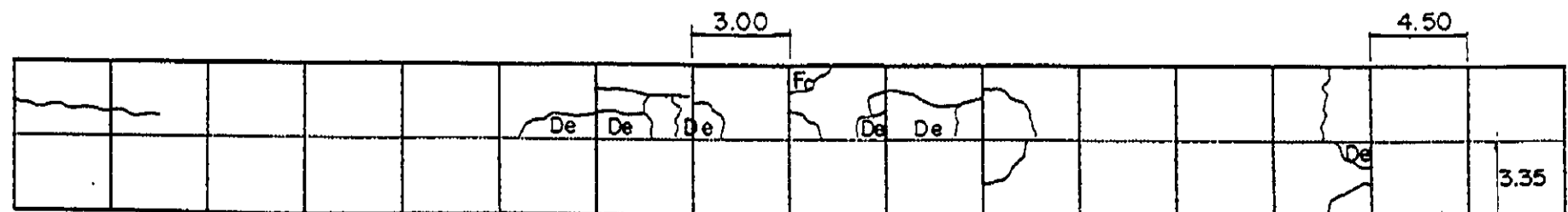
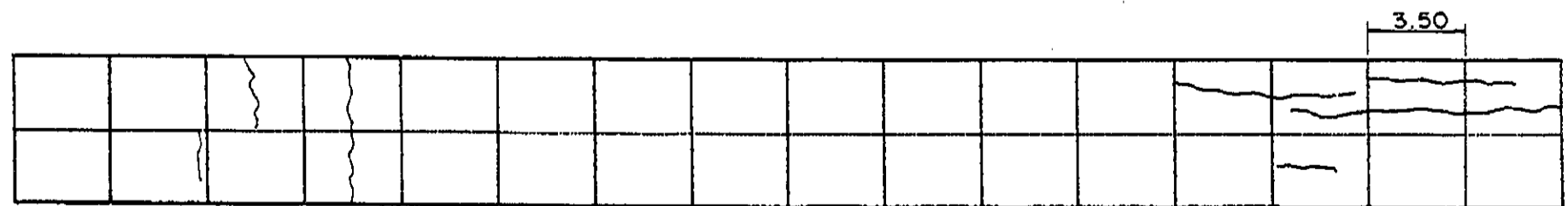
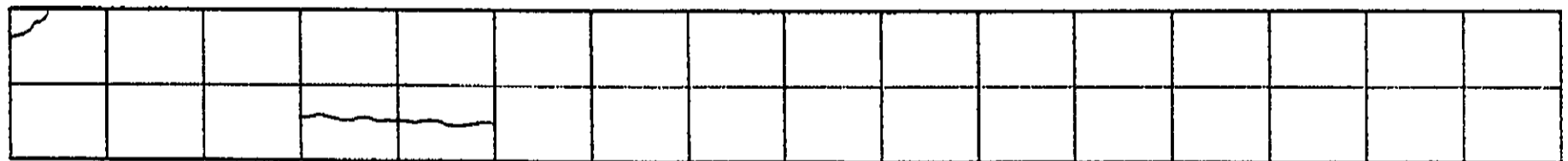
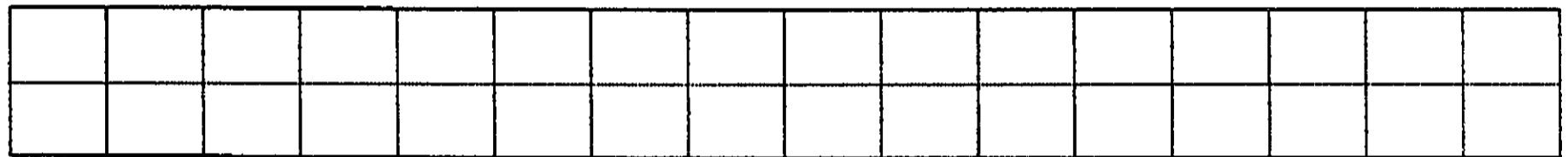
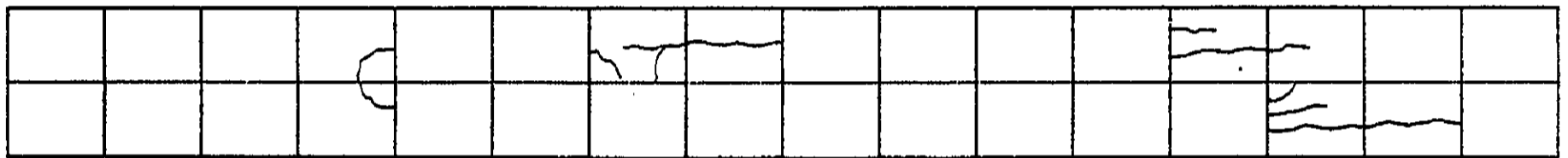
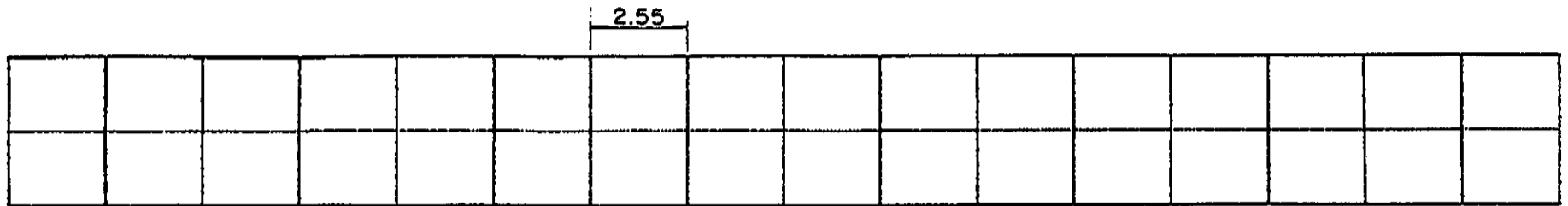


INVENTORY OF PAVEMENT SURFACE CONDITION

Date : 10-23-95

Km. 1337 + 000

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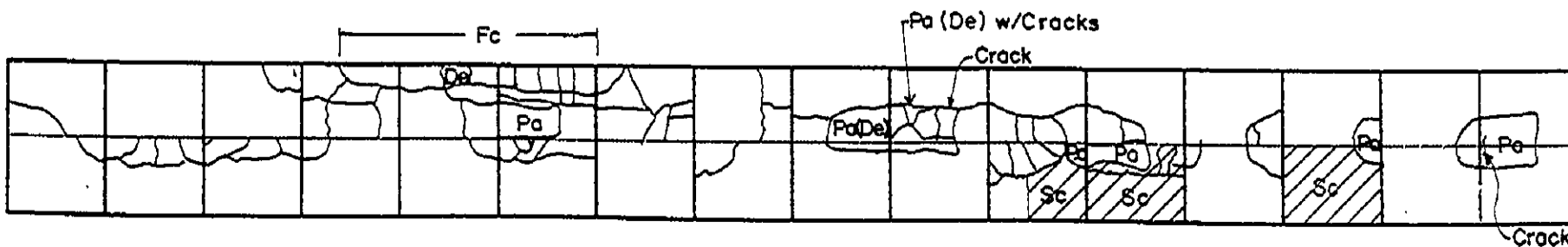
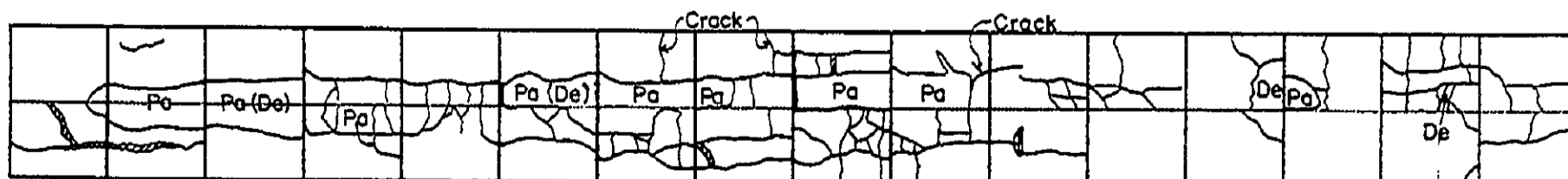
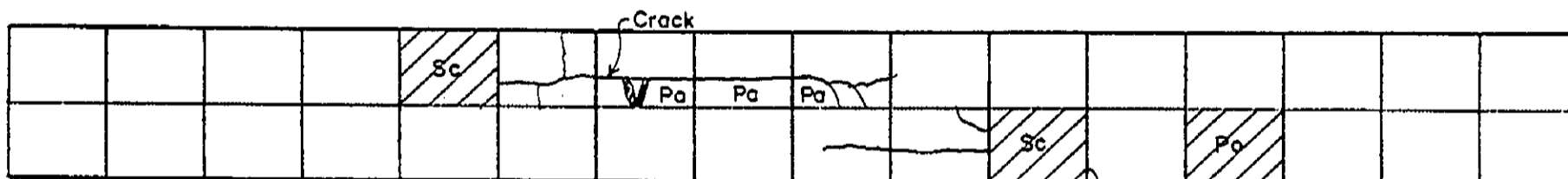
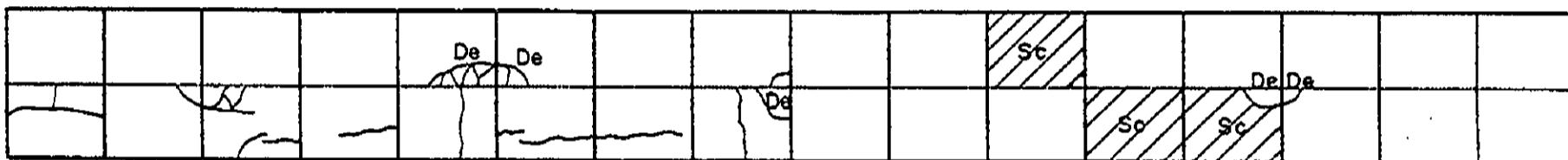
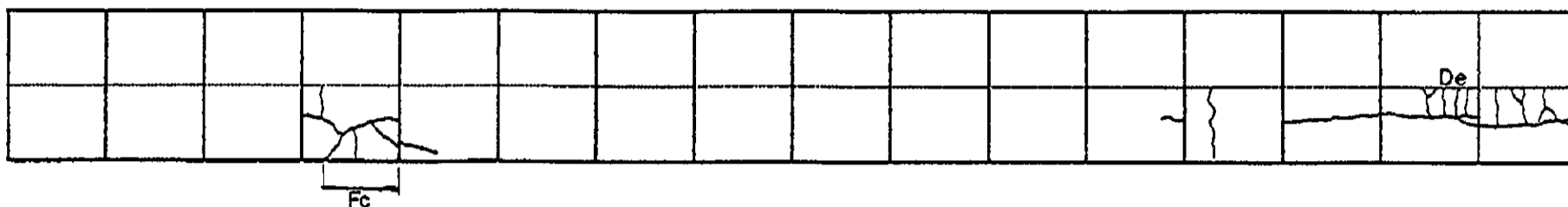
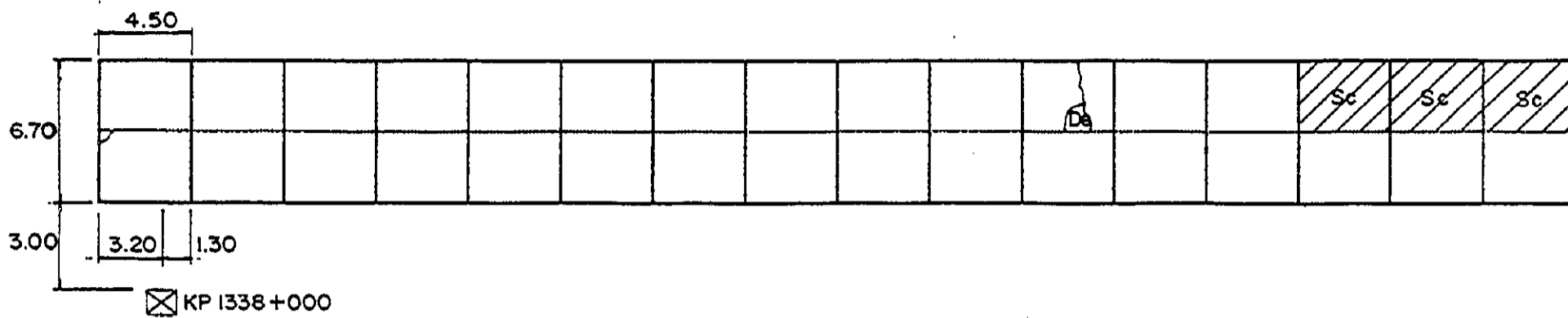
3.35
3.20 | 1.30 | 3.00

INVENTORY OF PAVEMENT SURFACE CONDITION

Date : 10-23-95

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Km. 1338 + 000

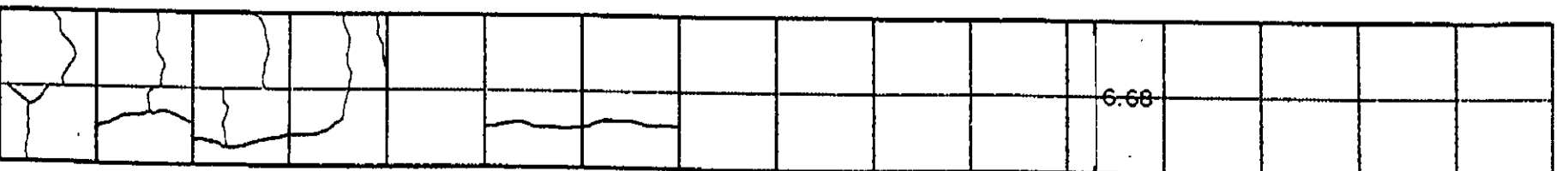
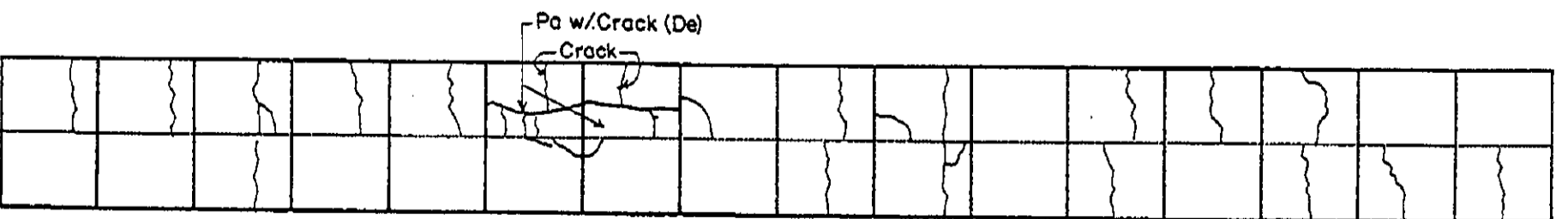
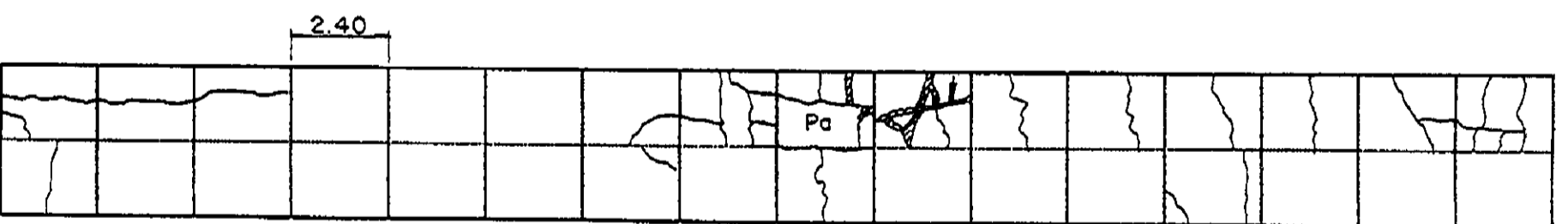
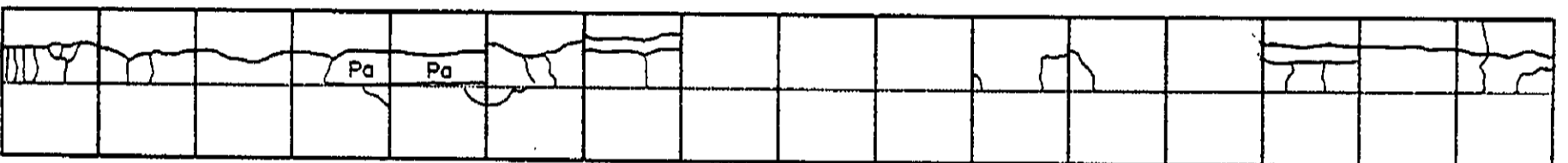
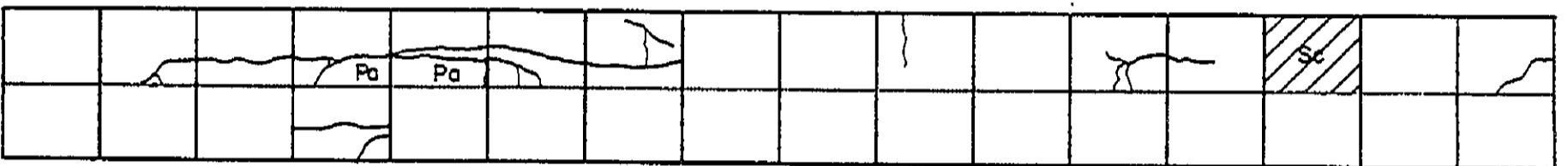
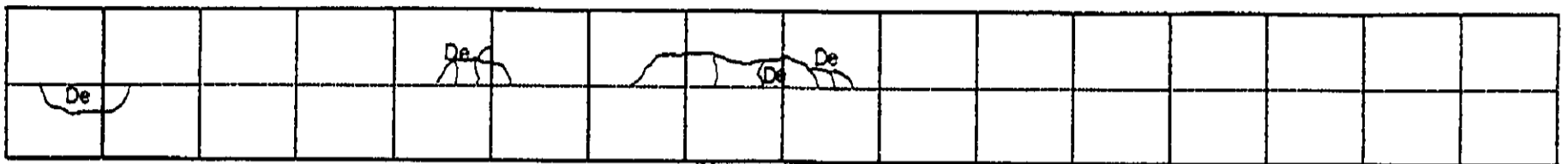
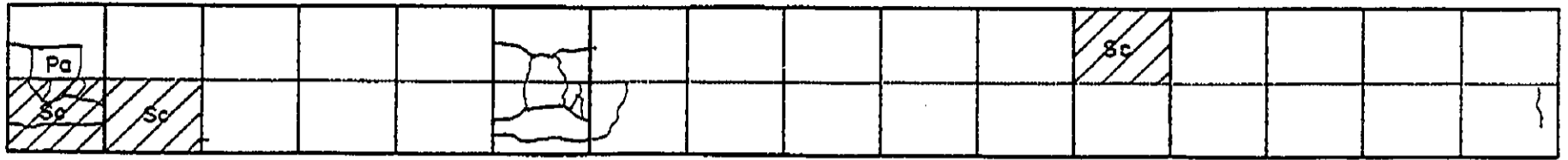


INVENTORY OF PAVEMENT SURFACE CONDITION

Km. 1338 + 000

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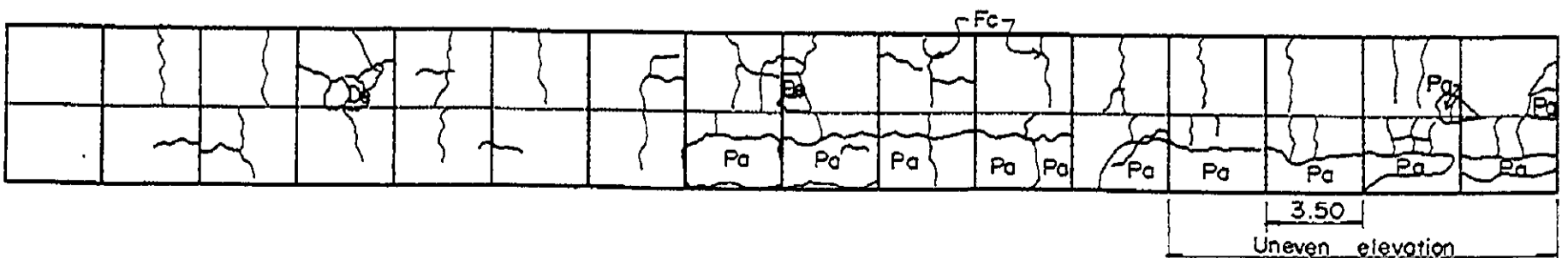
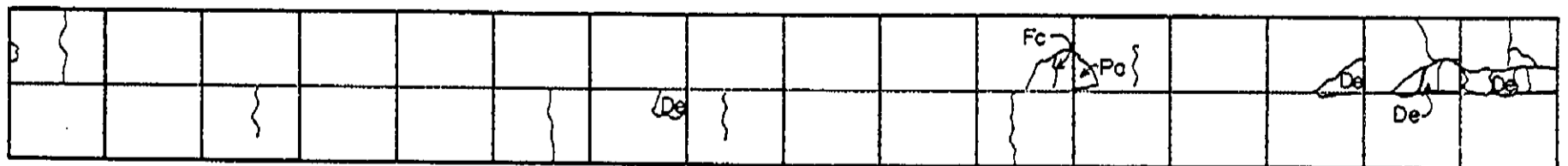
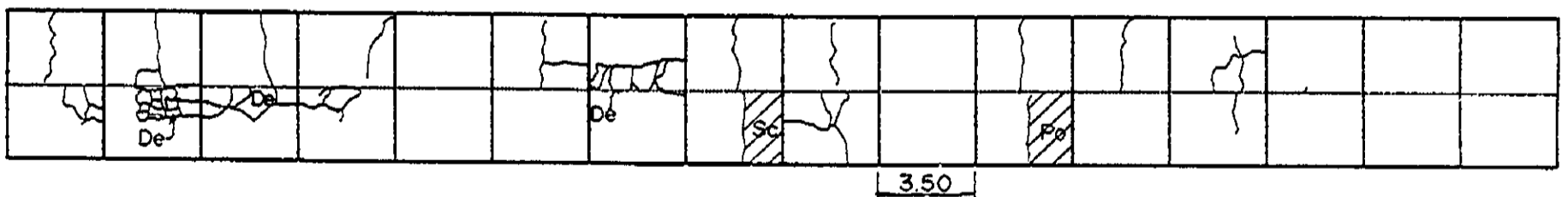
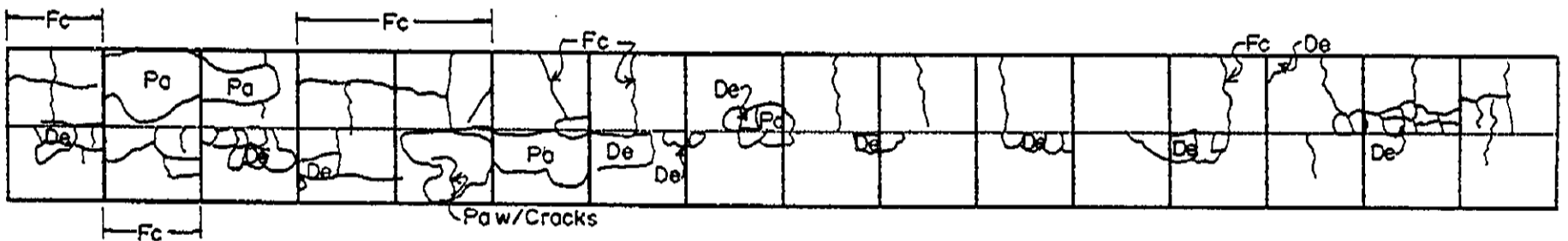
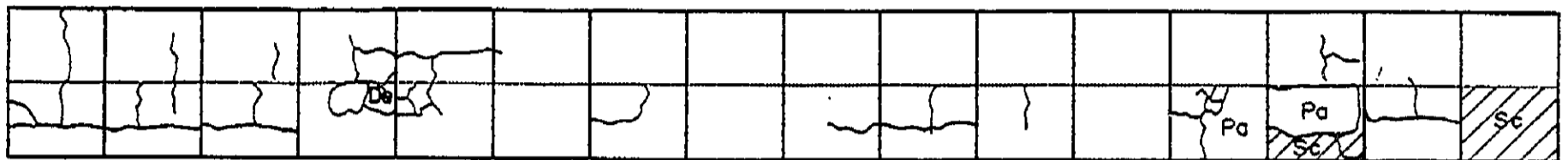
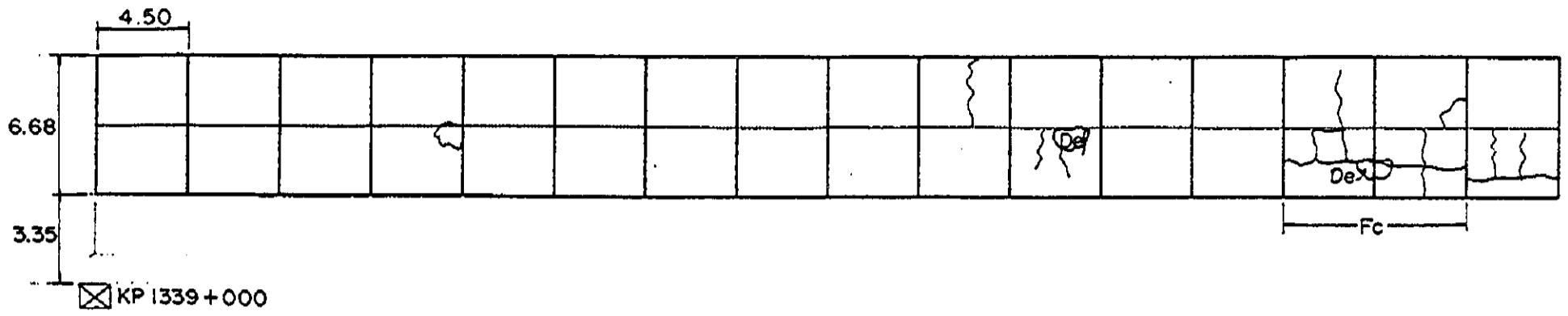
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 ⊠ KP 1339 + 000

INVENTORY OF PAVEMENT SURFACE CONDITION

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Km. 1339 + 000

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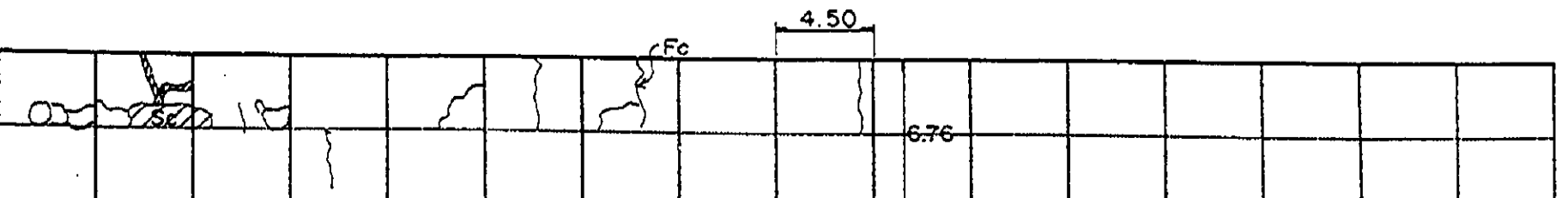
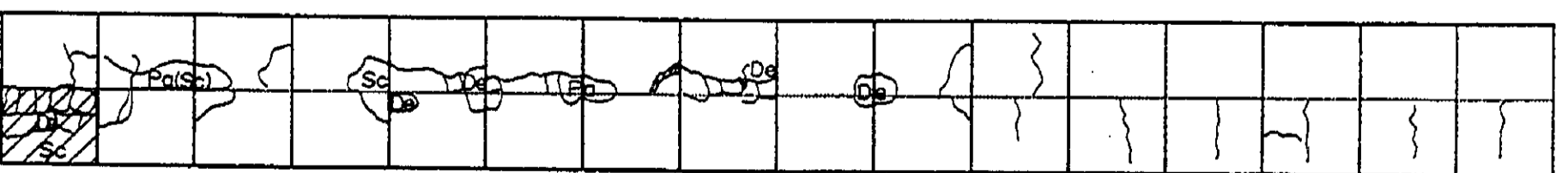
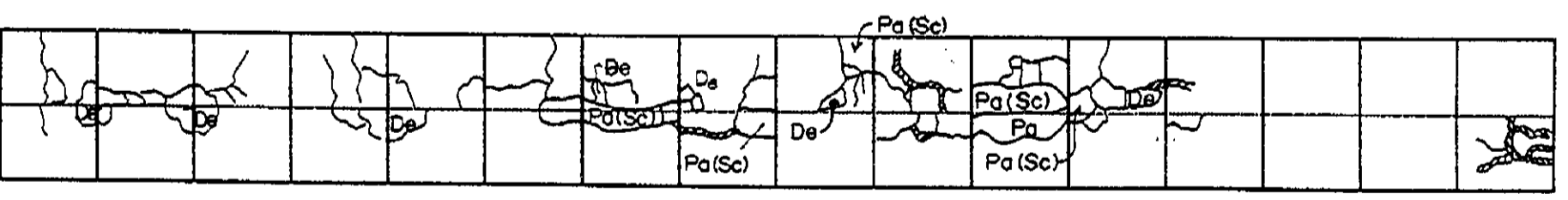
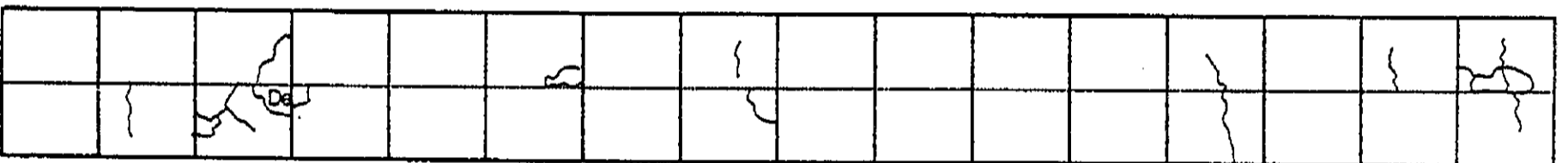
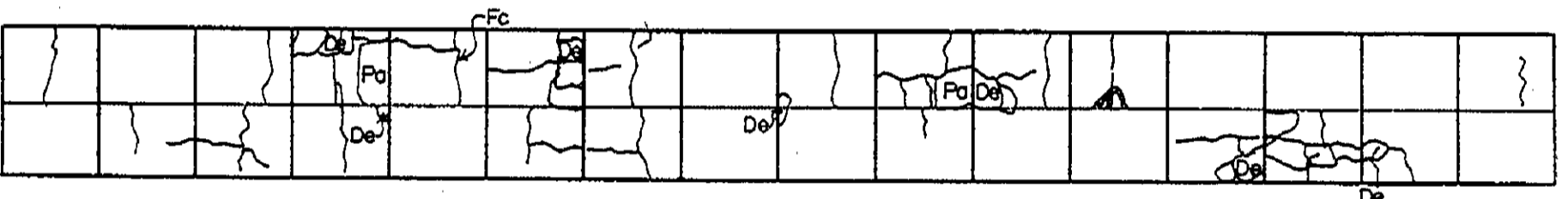
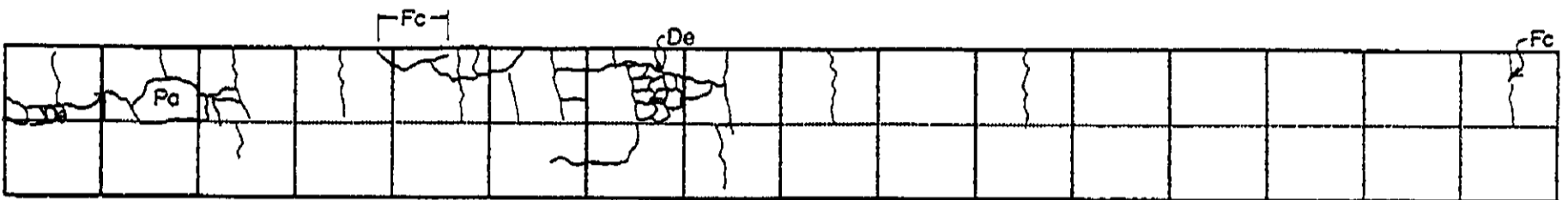
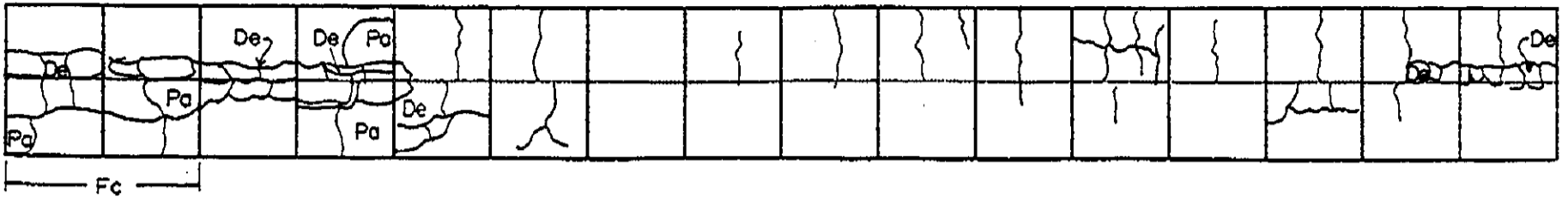


INVENTORY OF PAVEMENT SURFACE CONDITION

Km. 1339 + 000

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1.00 3.50 3.05

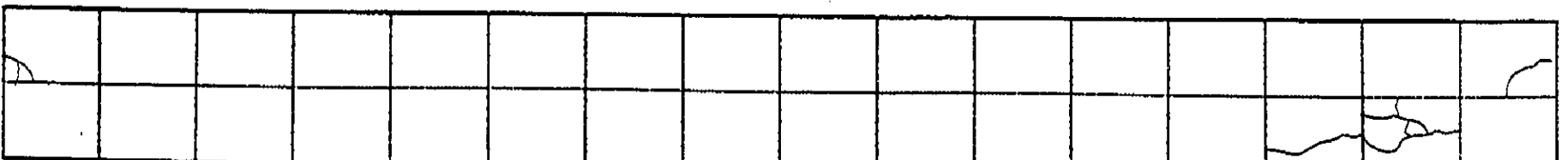
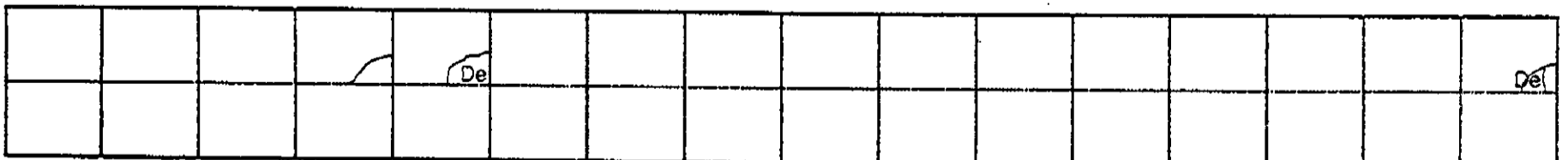
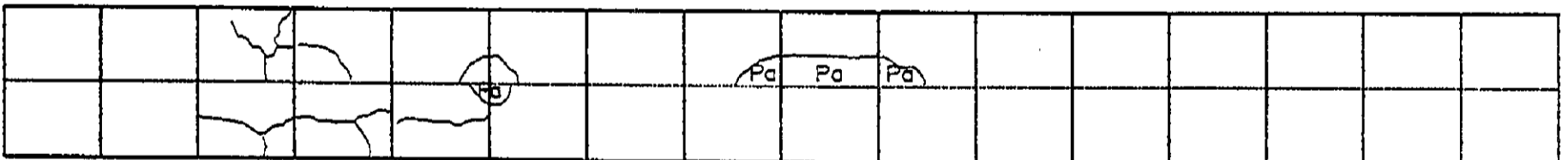
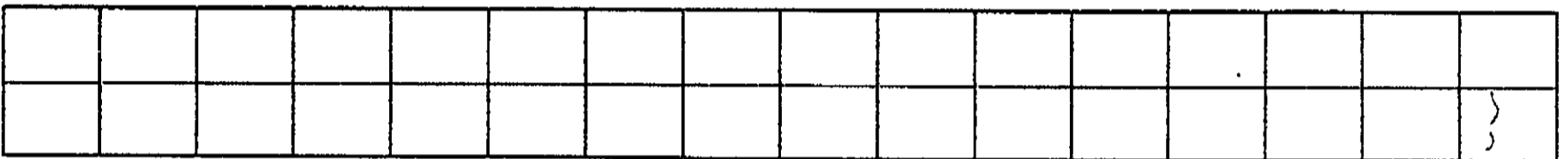
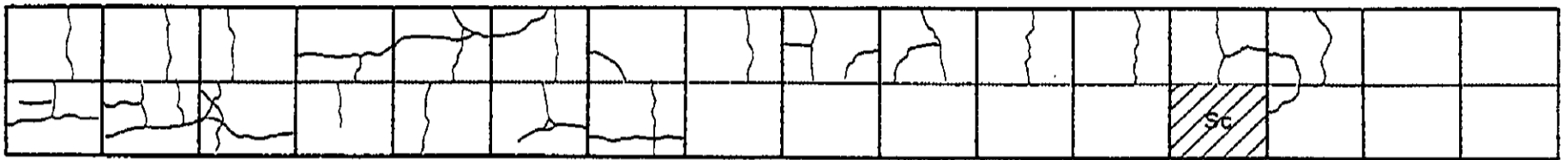
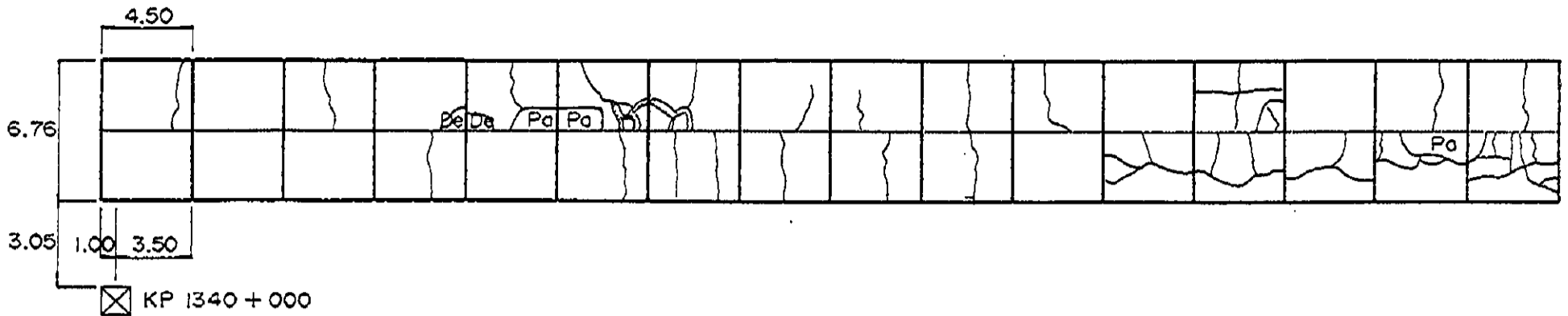
☒ KP1340 + 000

INVENTORY OF PAVEMENT SURFACE CONDITION

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Km. 1340 + 000

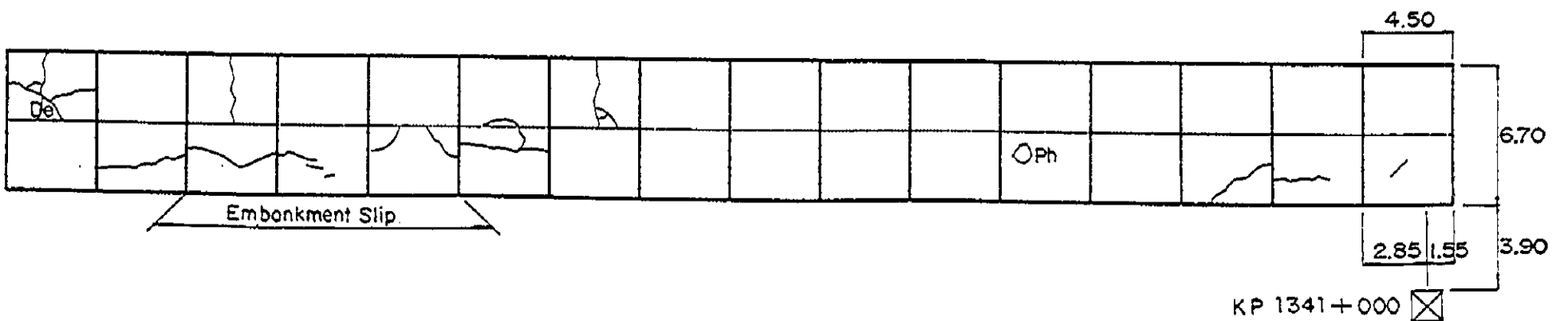
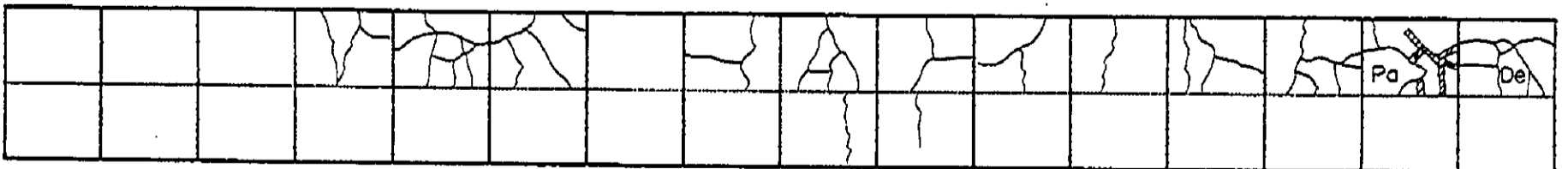
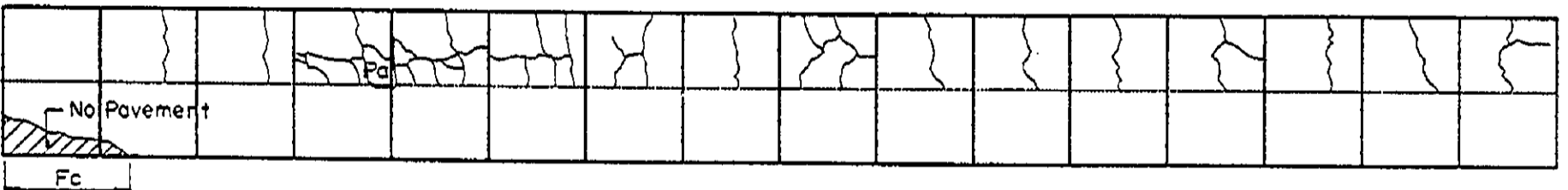
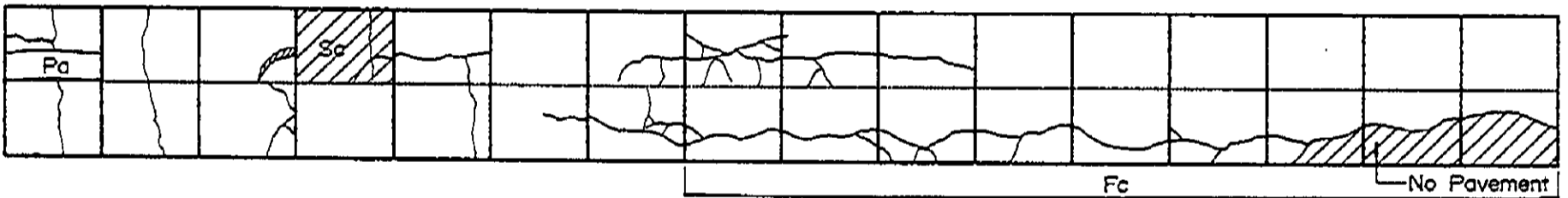
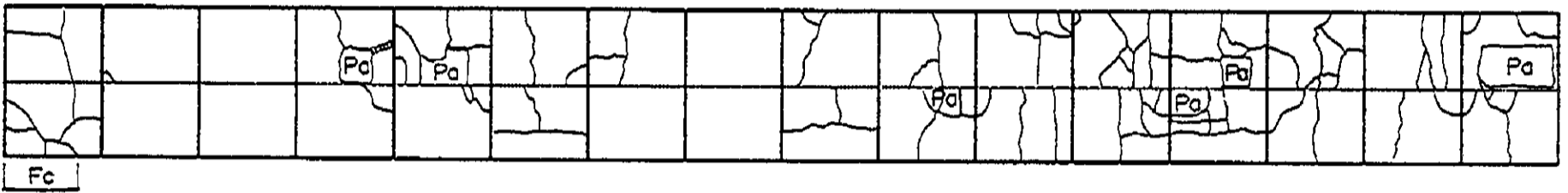
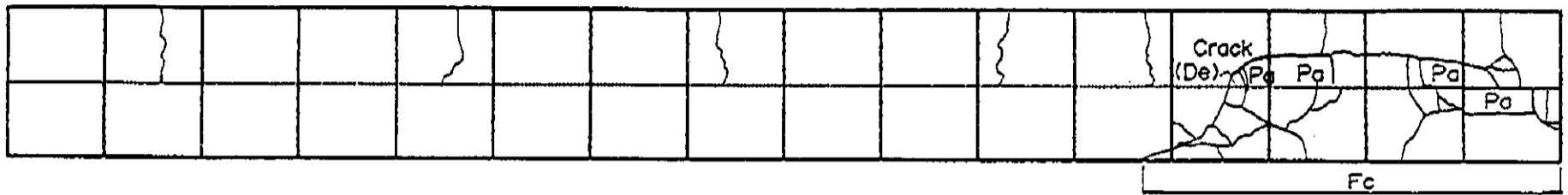
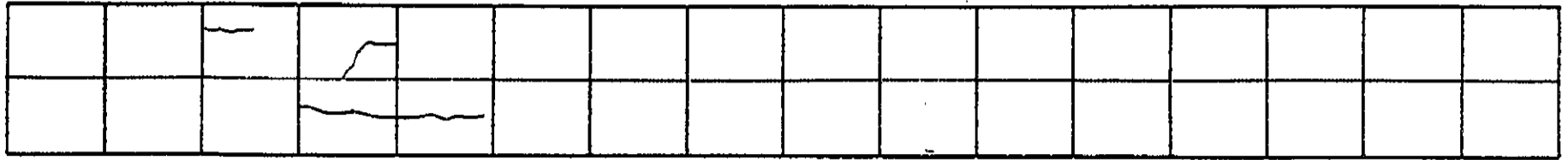


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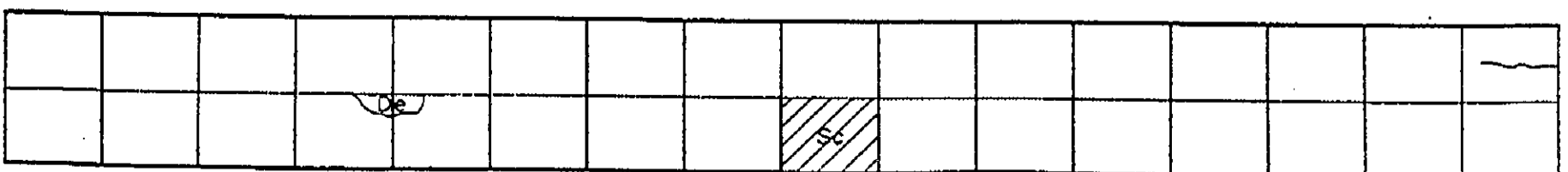
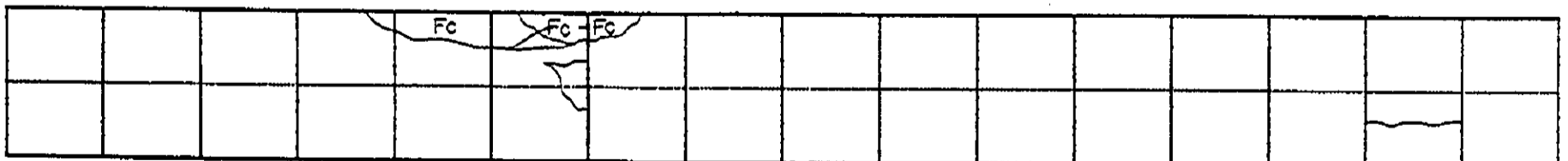
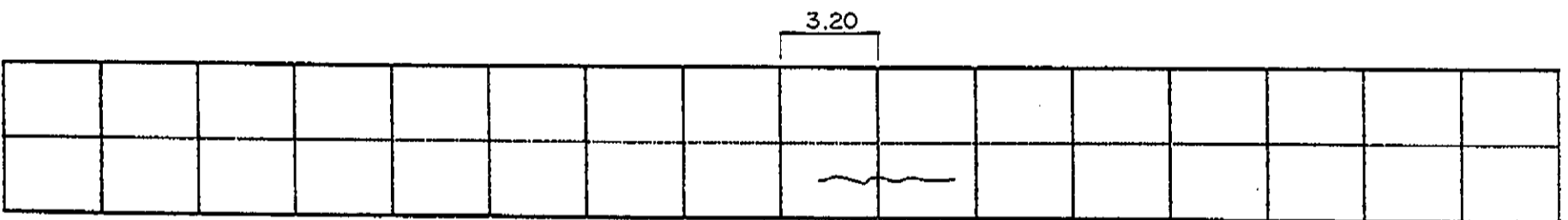
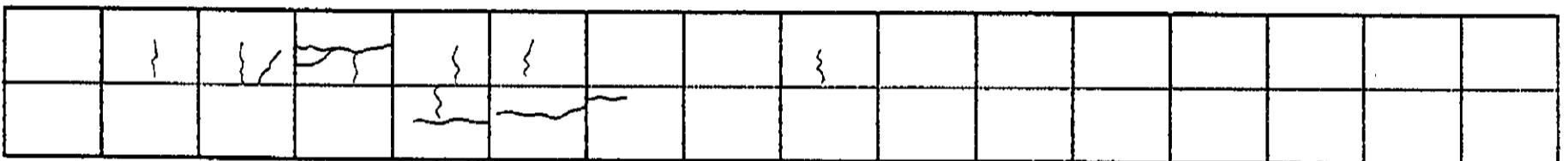
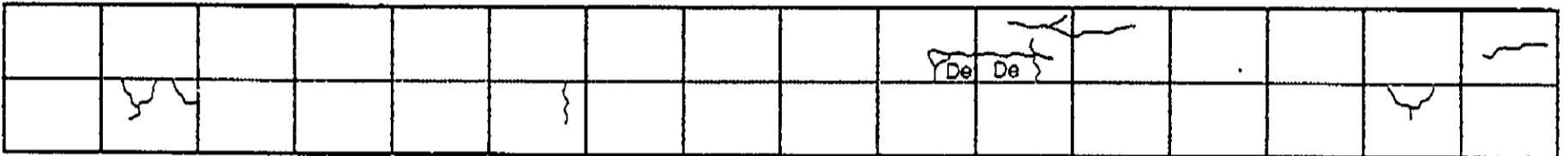
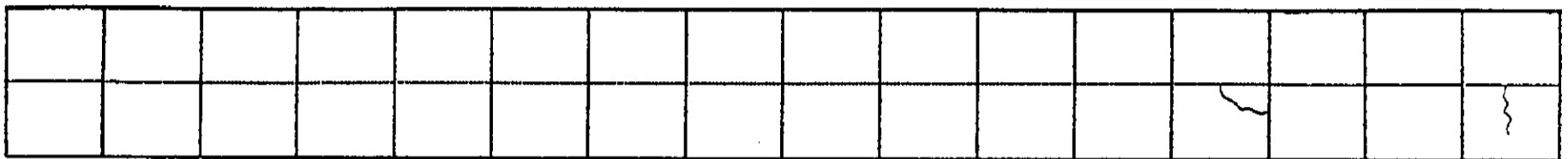
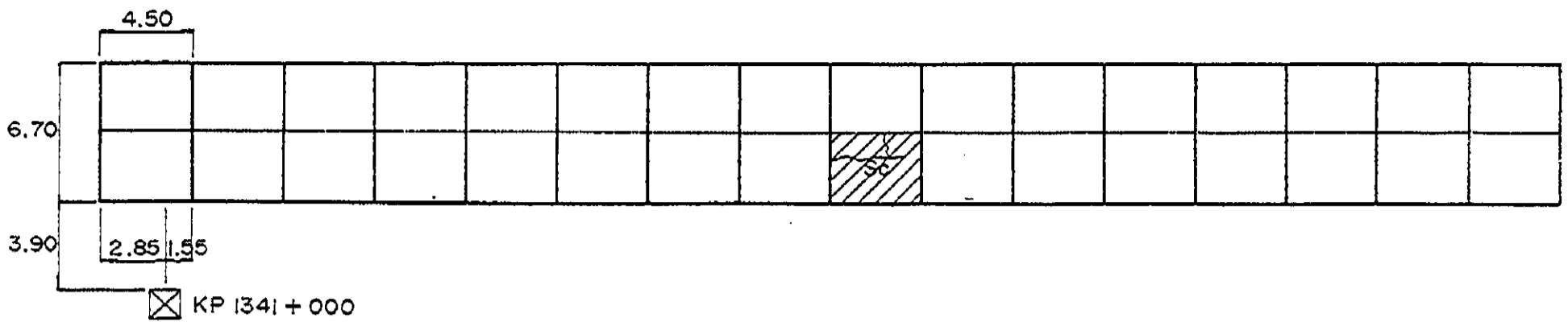


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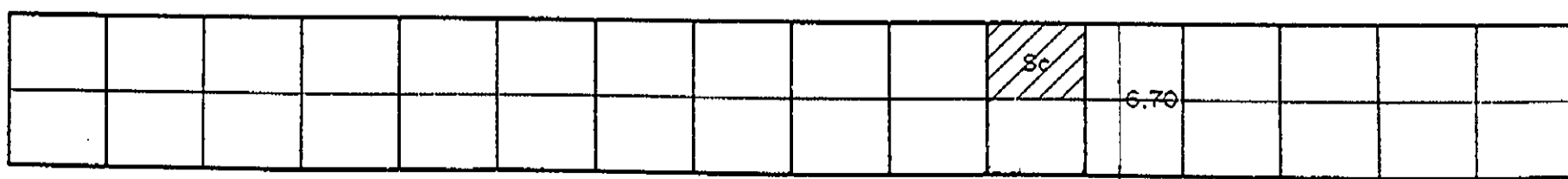
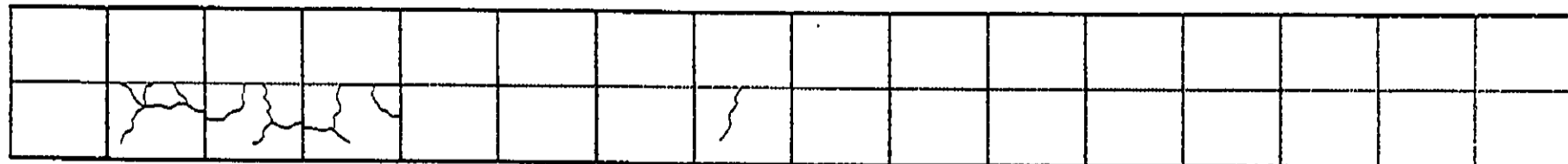
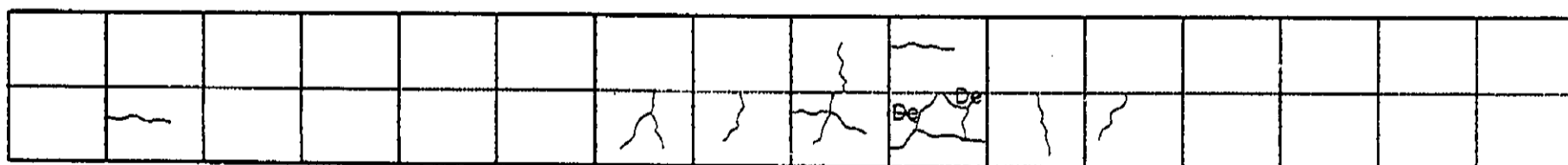
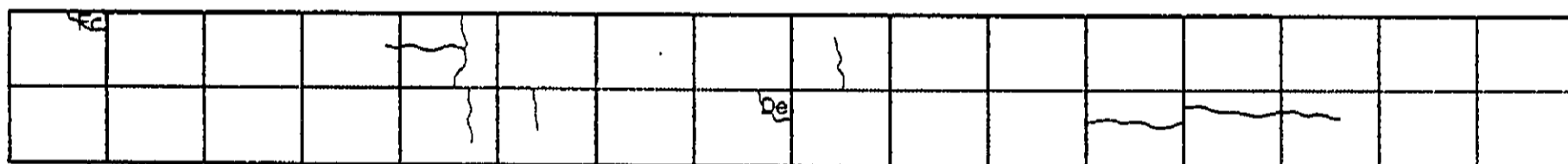
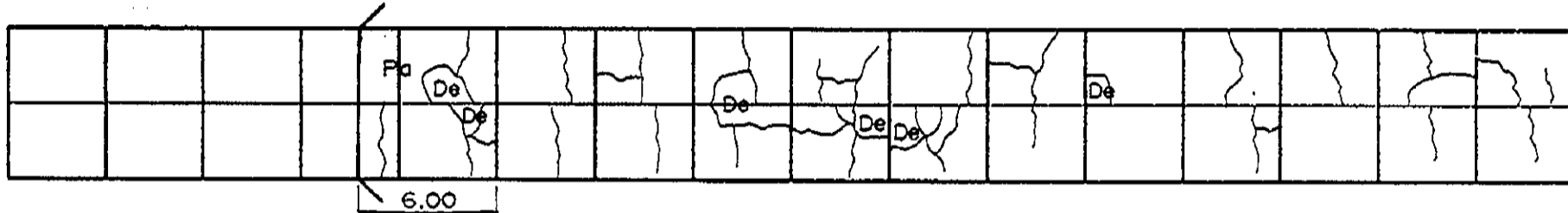
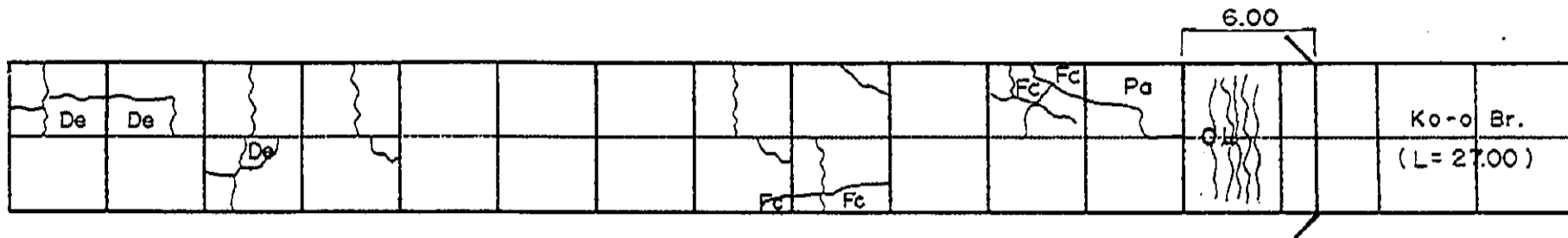
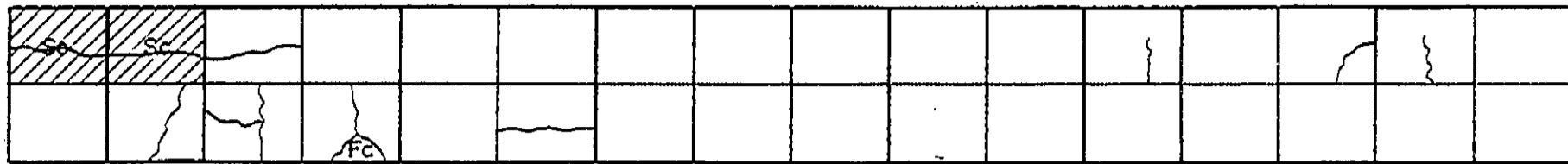


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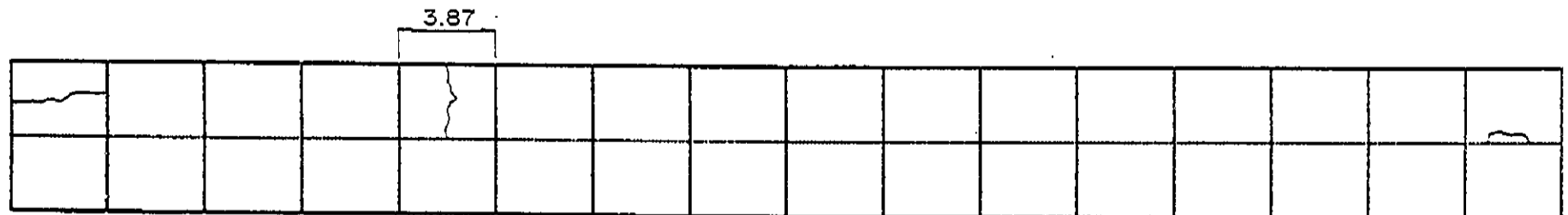
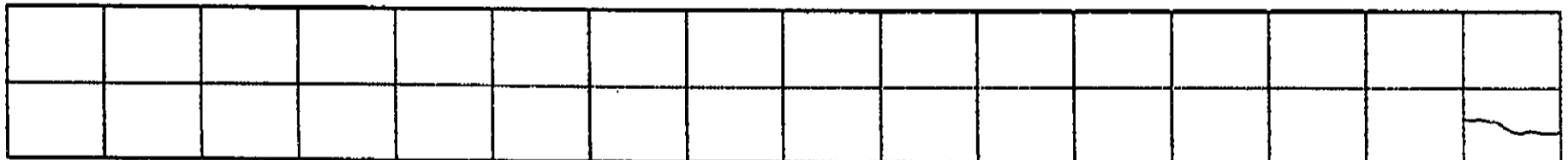
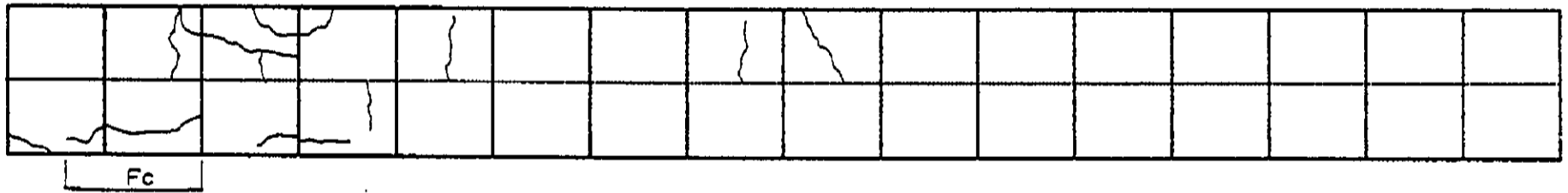
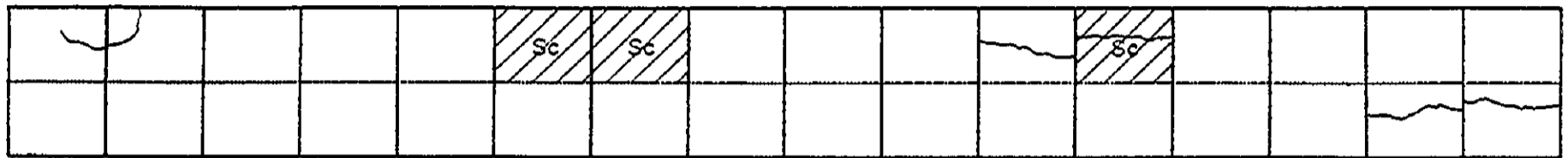
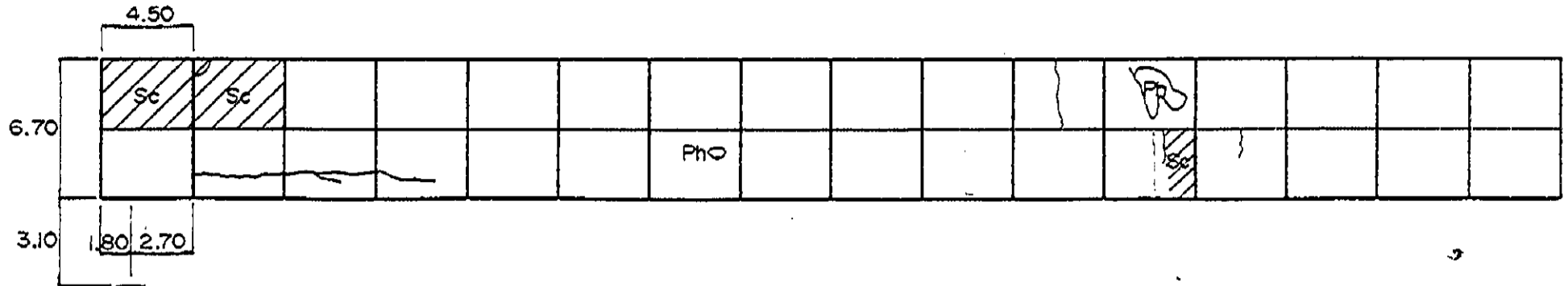
1.80 2.70 3.10
 ☒ KP 1342 + 000

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											Sc									

				De De																	

Fc Through Centerline Joint

Gravel Section (86.30m.)

								10.90	Gr	Gr	Gr	Gr	Gr	Gr	Gr	Gr	Gr	Gr	Gr	Gr

Gravel Section

Gr	Gr	Gr	Gr	Gr	Gr	Gr	Gr	Gr	Gr	Gr	12.00									

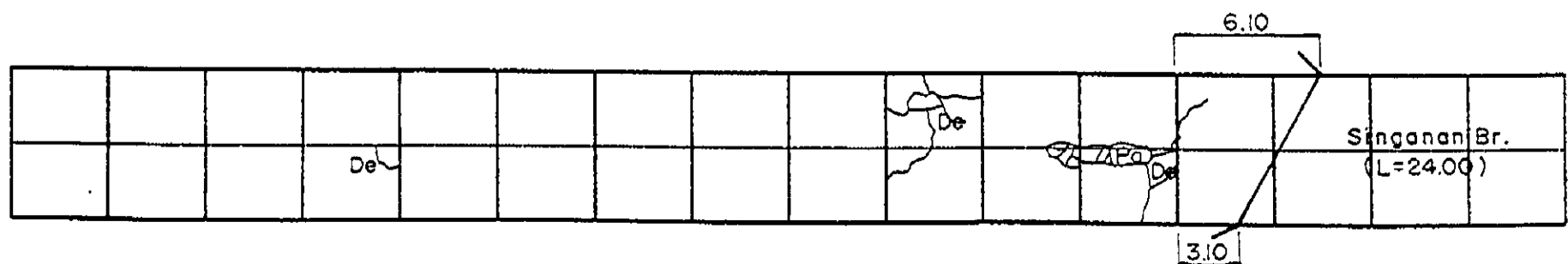
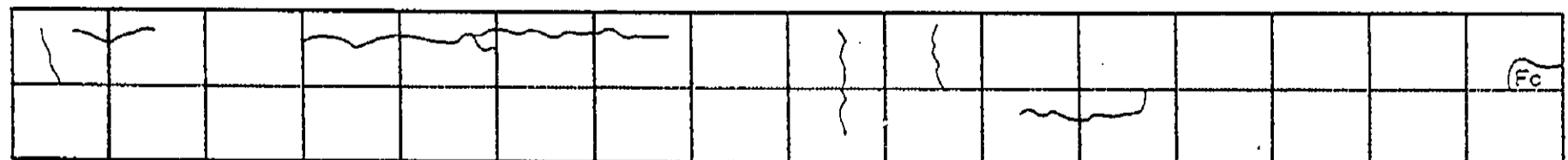
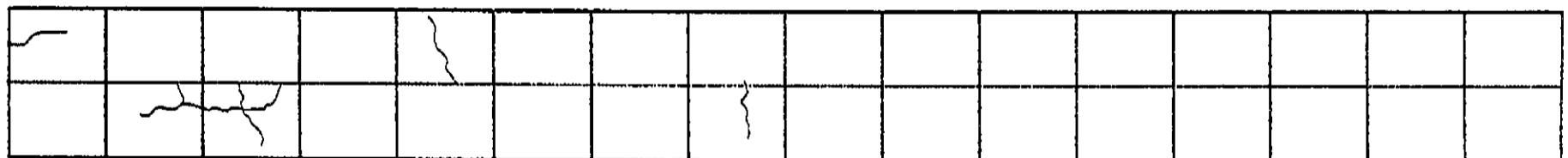
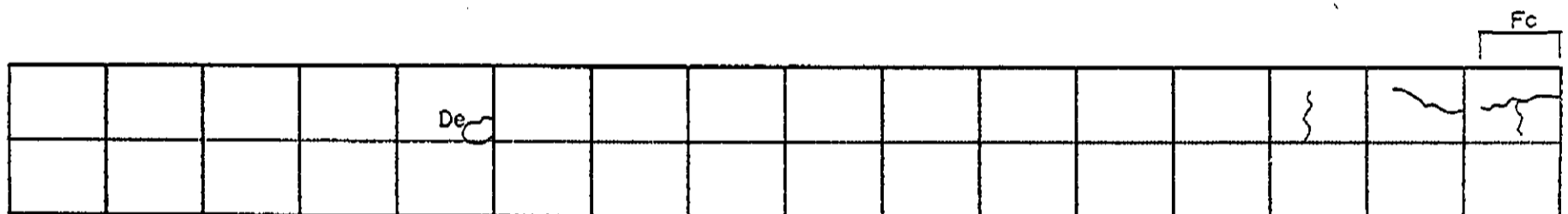
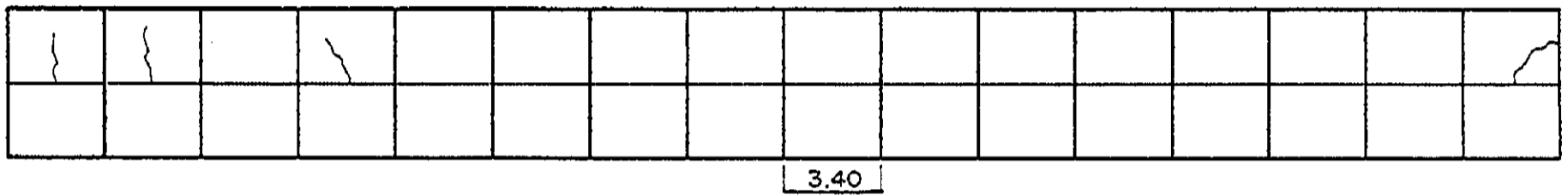
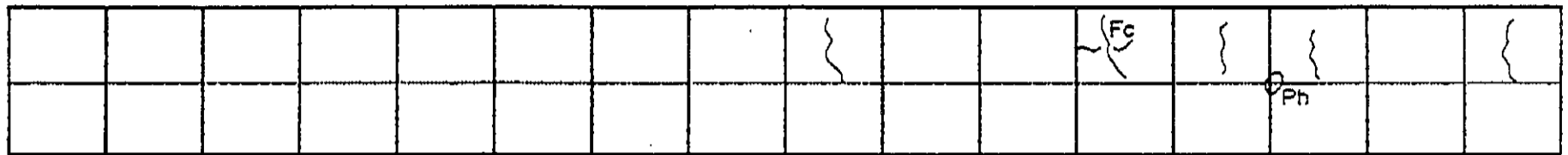
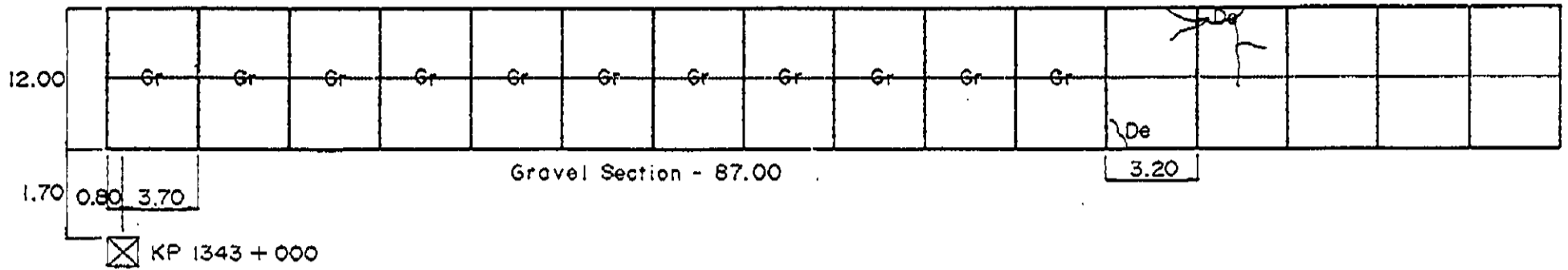
0.80 3.70 1.70
 KP 1343 + 000

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Km. 1343 + 000

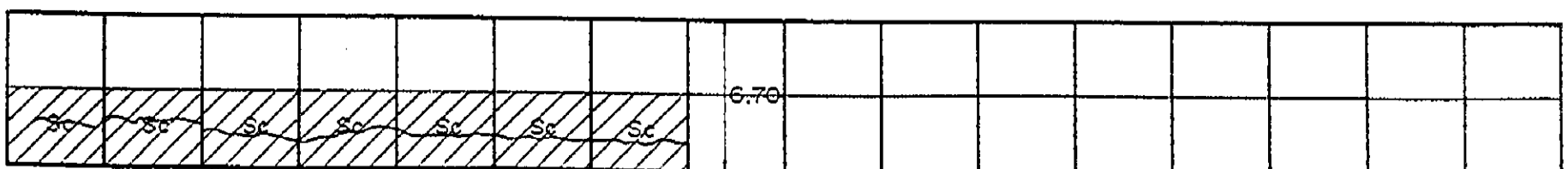
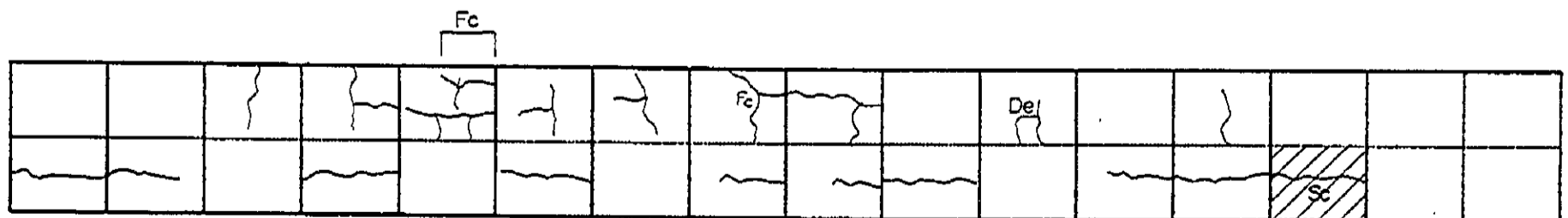
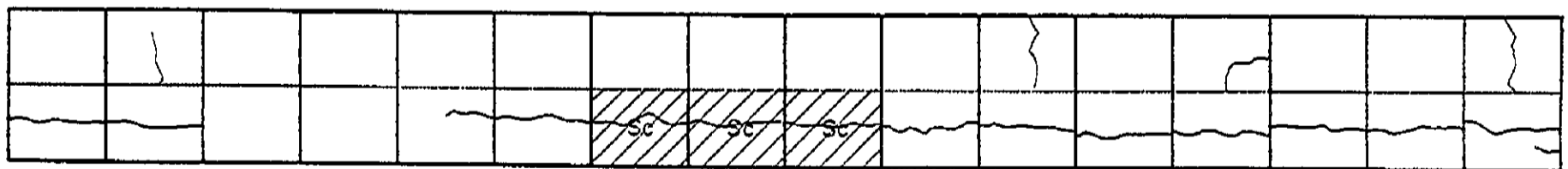
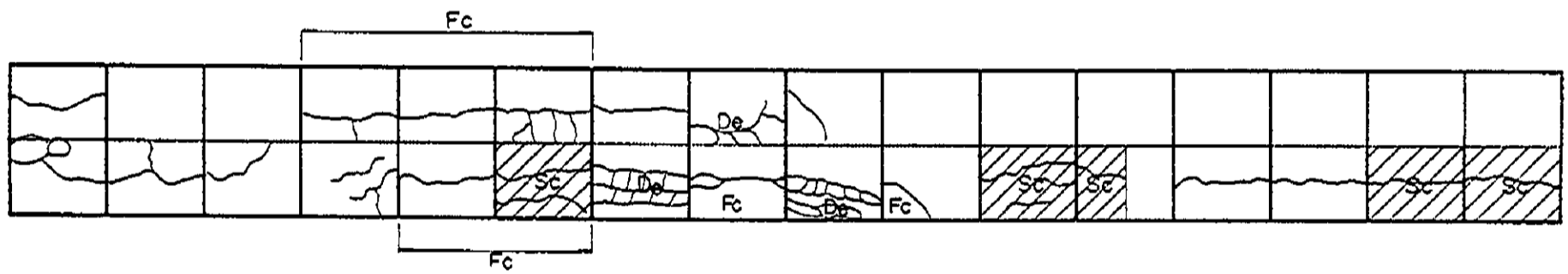
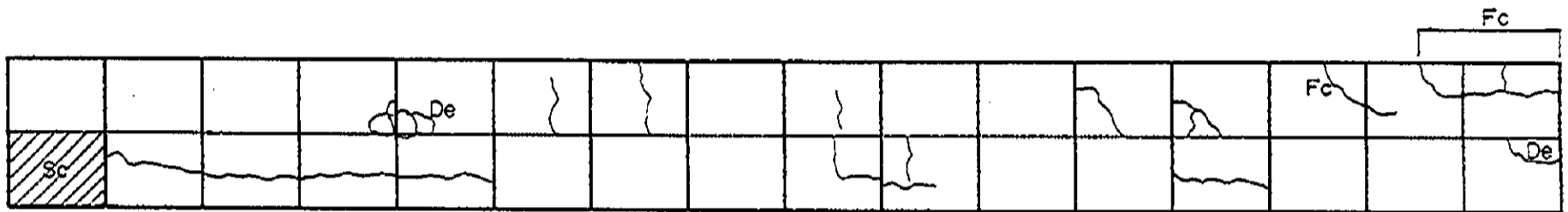
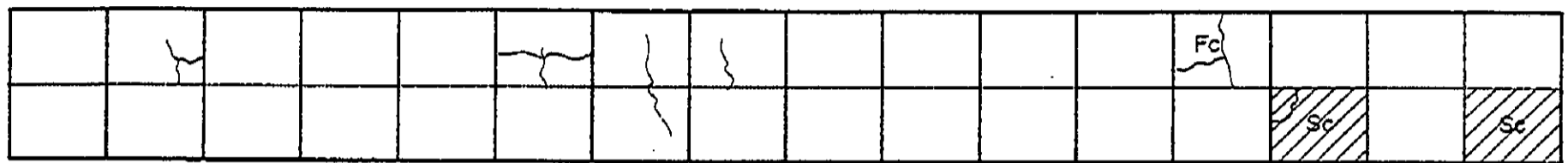
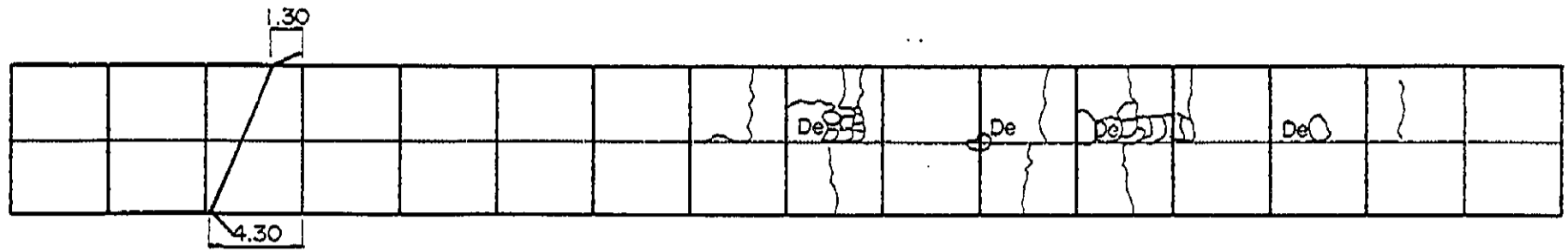


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Km. 1343 + 000

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1.90 2.60 1.90

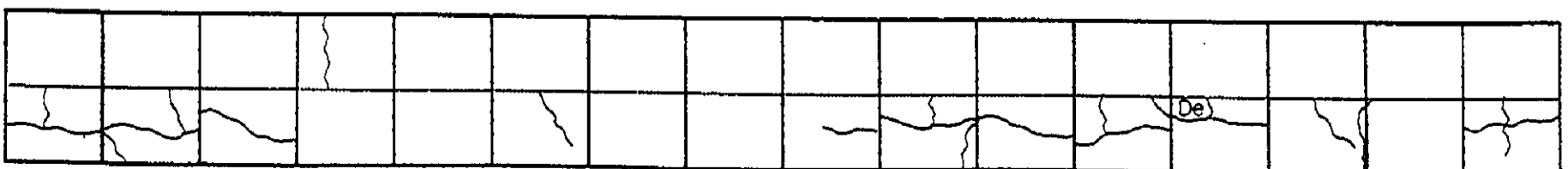
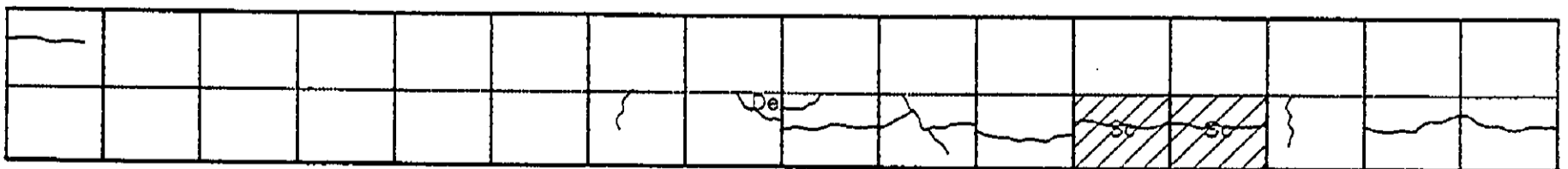
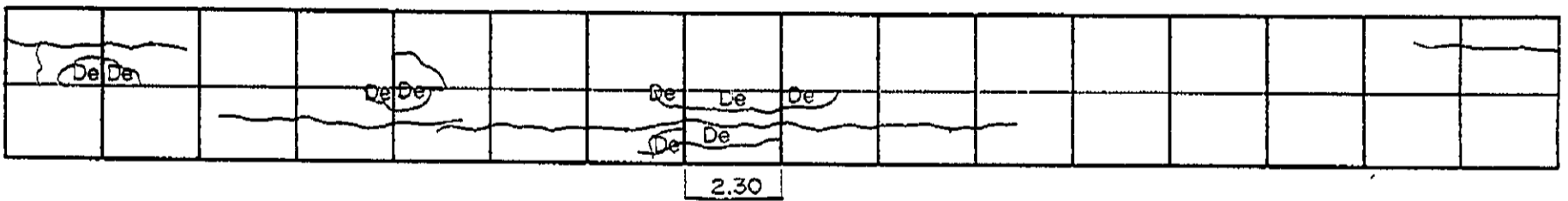
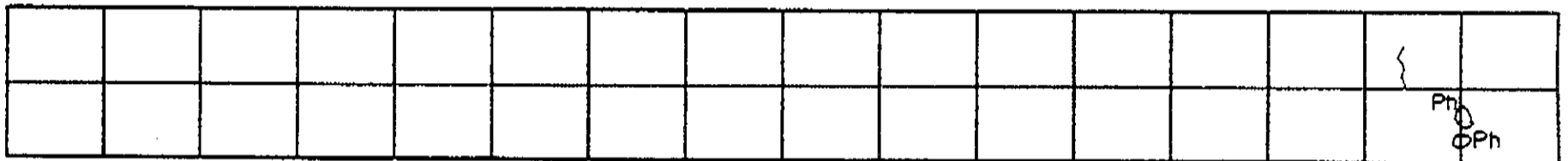
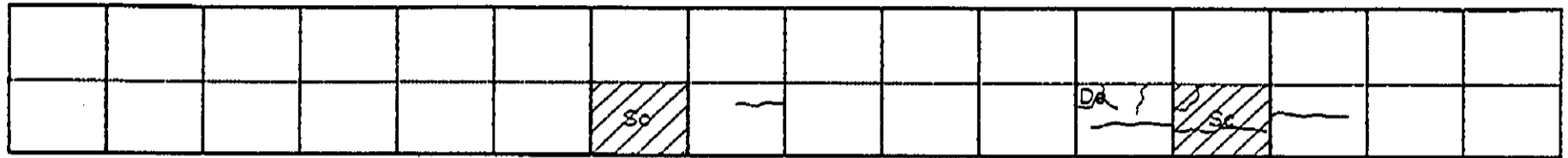
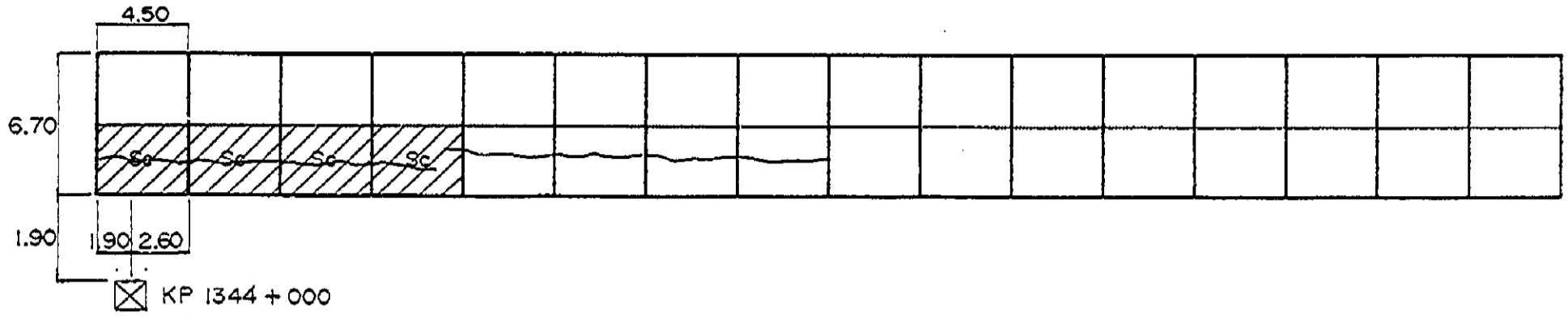
⊠ KP 1344 + 000

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Km. 1344 + 000

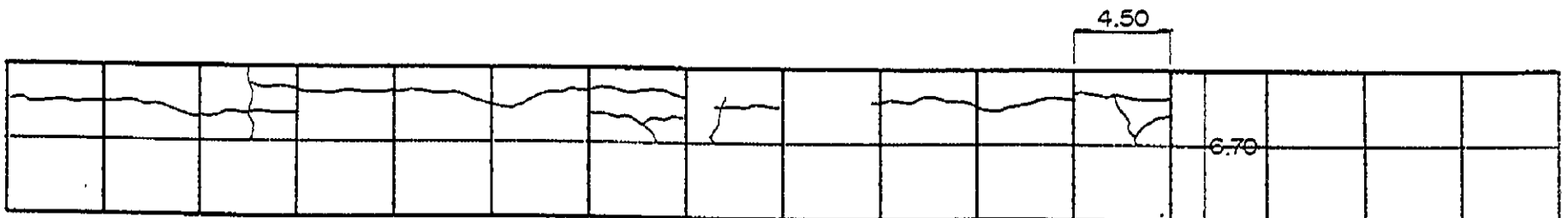
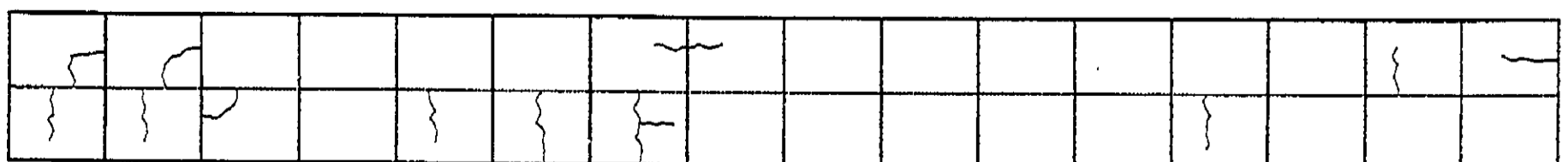
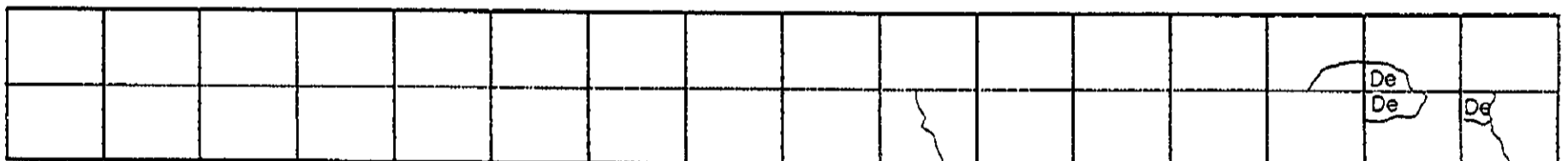
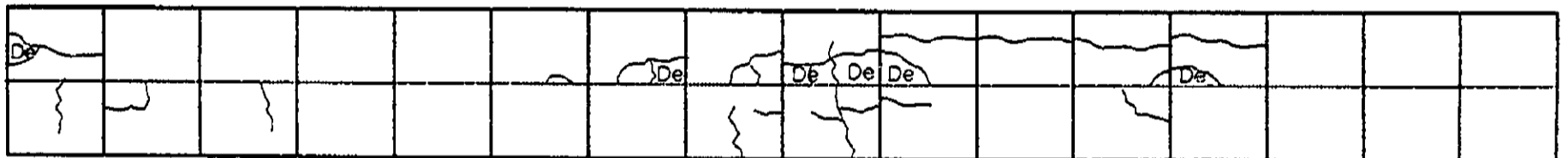
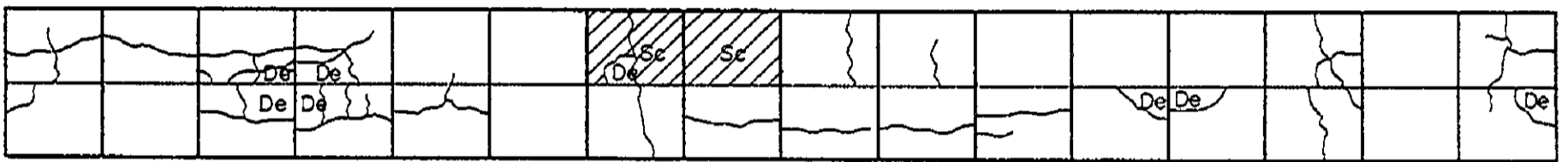
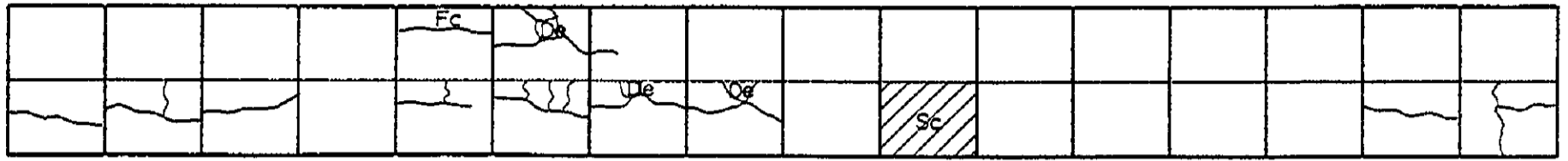


INVENTORY OF PAVEMENT SURFACE CONDITION

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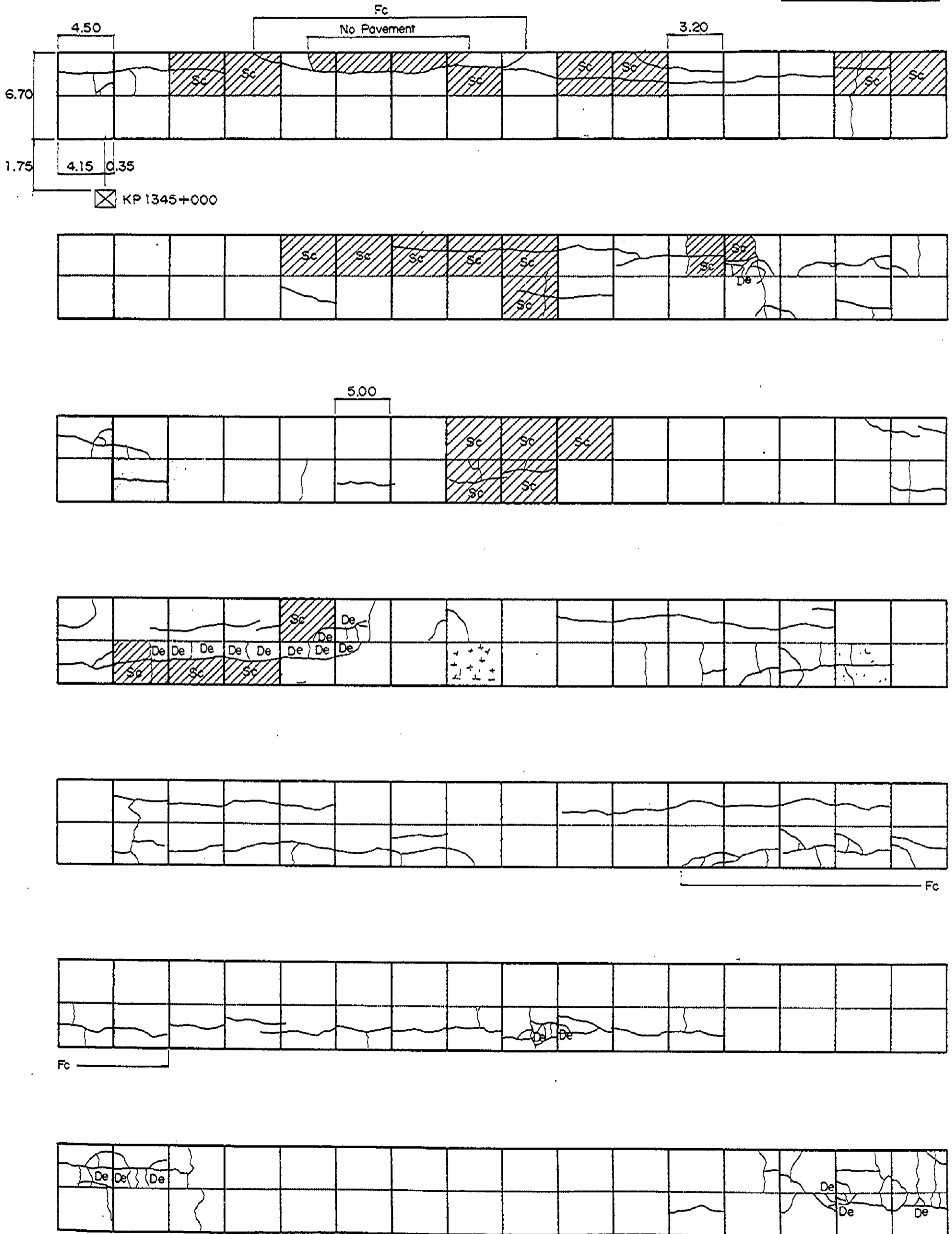


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Km. 1345+000



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Km. 1346+000

