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REPORT No. D78



010

DIGHEM SURVEY

RECEIVED OCT 2 8 1977 PROJECTS UNIT

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## SOUTH POPCUPINE AREA, ONTARIO

FOR

## COMINCO LIMITED

BY

DIGHEM LIMITED

TORONTO, UNTARIO SEPTEMBER 26, 1977

D. C. Fraser President

## SUMMARY

A DIGHEM<sup>II</sup> airborne electromagnetic/resistivity/ magnetic survey of 254 line-miles was flown for Cominco Limited in August 1977, in the South Porcupine area of Ontario. A considerable number of conductors were detected, some of which were recognizable only on those channels which have geological noise stripped off. Several discrete targets were identified.



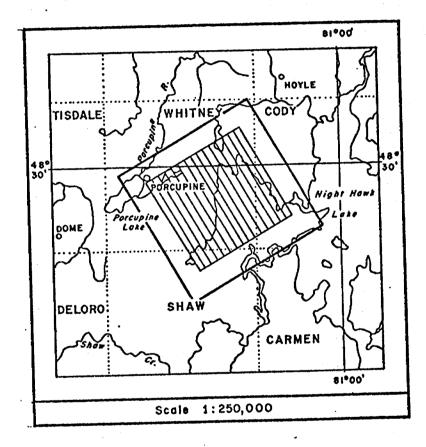


Figure 1. The survey area.

## DIGHEM MAGNETIC SURVEY.

A DIGHEM survey of 254 line-miles was flown with a <u>400-</u> foot line-spacing for Cominco Limited on August 9th, 1977, in the South Porcupine area of Ontario (Figure 1). The Alouette II jet helicopter C-GNQX flew with an average airspeed of 60 mph and EM bird height of 110 feet. Ancillary equipment consisted of a Geometrics 803 magnetometer with its bird at an average height of 160 feet, a Sperry radio altimeter, Geocam sequence camera, 60 hz monitor, Barringer 8-channel hot pen analog recorder, and a Geometrics G-704 digital data acquisition system with a Cipher 70 7-track 200-bpi magnetic tape recorder. The analog equipment recorded six channels of EM data at approximately 900 hz and one of magnetics and radio altitude. The digital equipment recorded the EM data with a sensitivity of 0.2 ppm/bit and the magnetic field to an accuracy of one gamma.

The magnetometer data are digitally recorded in the aircraft to an accuracy of one gamma. The digital tape is processed by computer to yield a standard total field magnetic map contoured at 25 gamma intervals. 47.45 line miles were flown over 61 claims in Whitney Township as outlined on the attached Dighem Magnetics Map.

Two maps accompany this report:

Map #1: Cominco Ltd. - Whitney Twp. Claim Map, 1:25,000
Map #2: Dighem Survey - Magnetics, 1"=1320'

Respectfully submitted,

D.C. Fraser President

V
Ontario

Lands Administration Branch Projects Unit



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Recorded Holder

Township or Area

Rosario Resources (Canada) Limited

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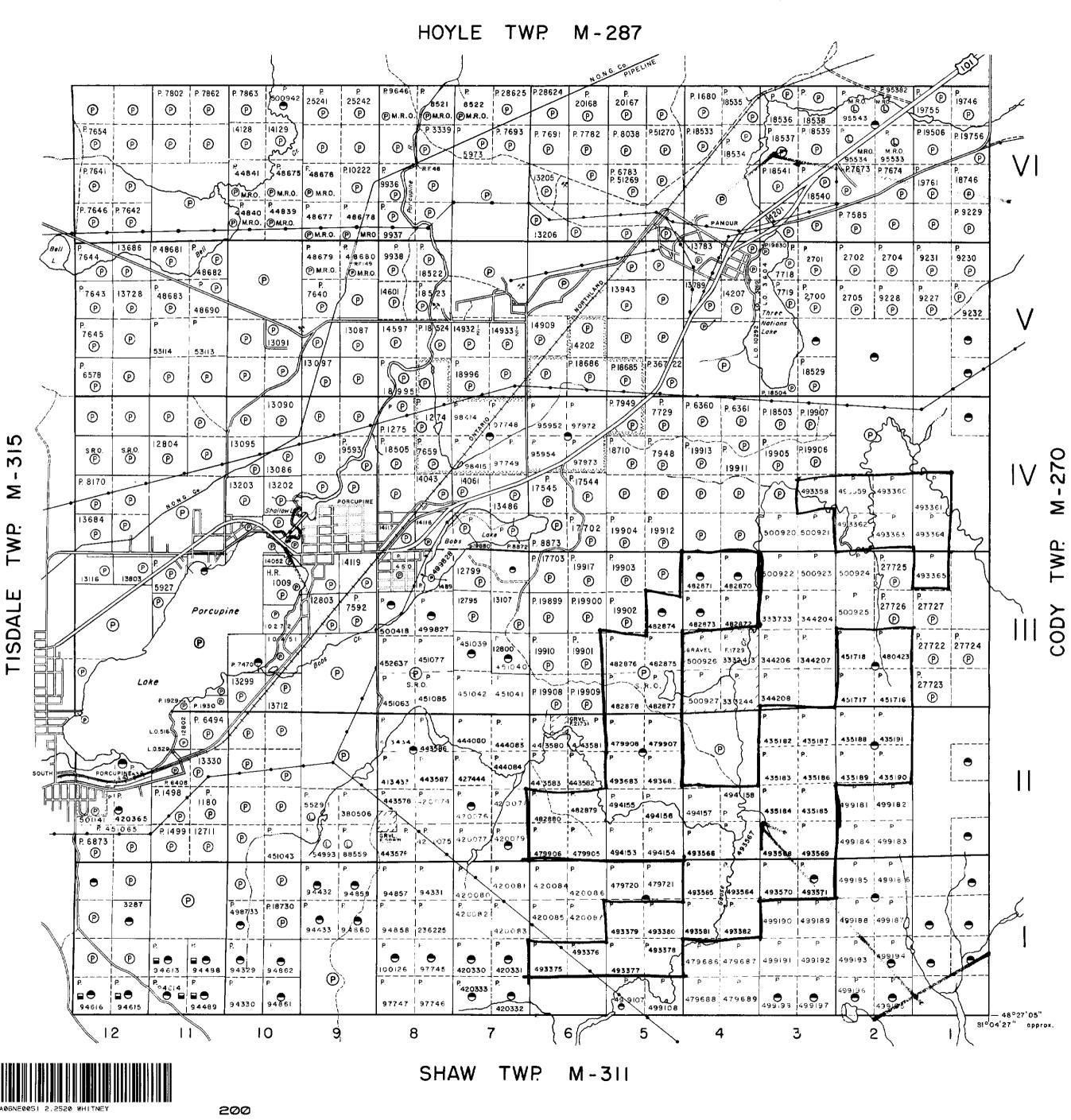
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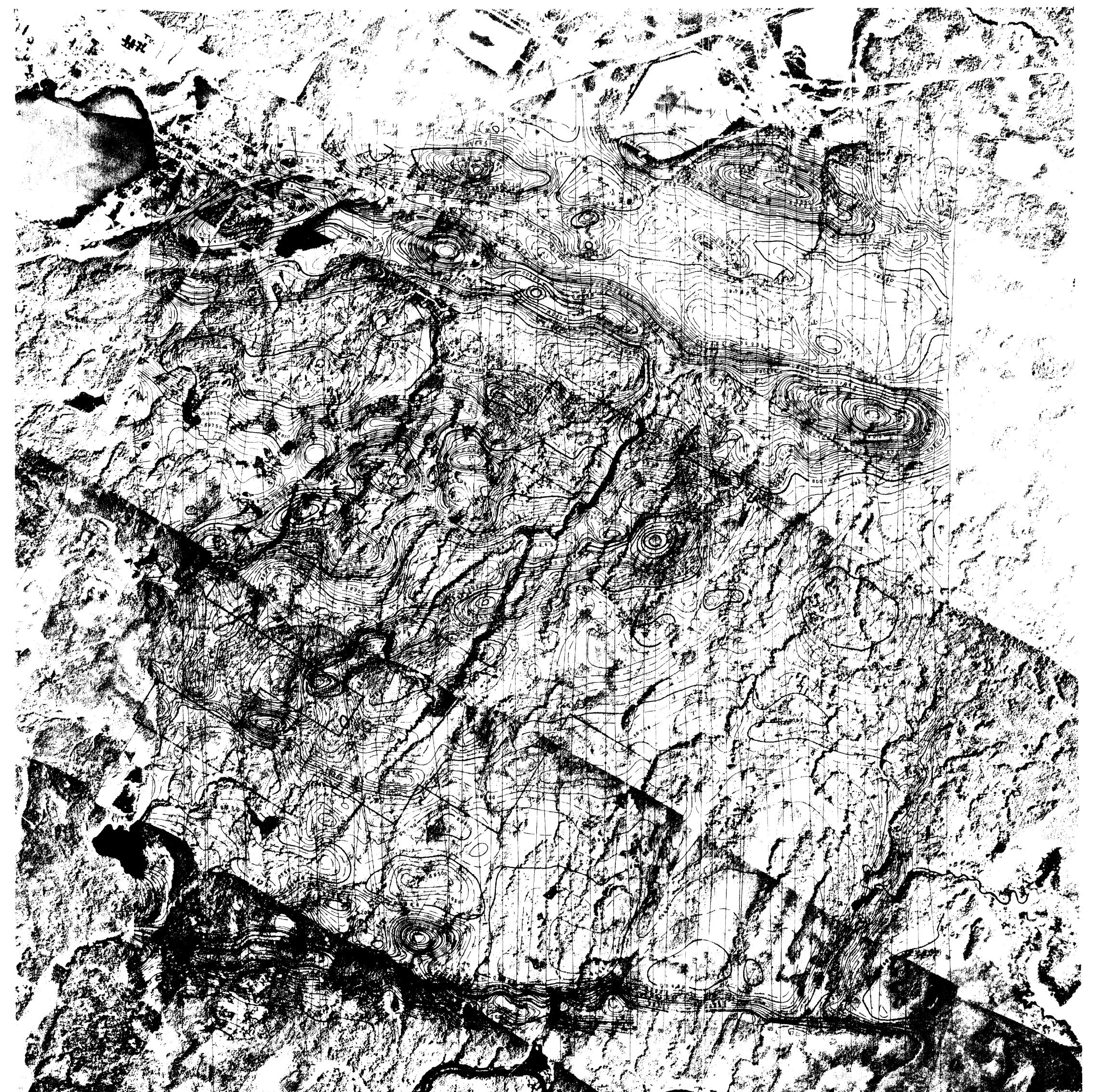
Whitney Township

Type of survey and number of Assessment days credit per claim	Mining Claims
Geophysical	
Electromagnetic days	P. 435182 to 91 inclusive
Magnetometer31days	451716 to 18 "
-	479905 to 08 "
Radiometric days	482870 to 80 "
Induced polarization days	489423
Section 86 (18) days	493358 to 65 inclusive
Geological days	493375 to 82 " 493564 to 71 "
	493682 - 83
Geochemical days	494153 to 58 inclusive
Man days 🗌 🛛 Airborne 🎽	
Special provision Ground	
Notice of Intent to be issued:	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections	
to work dates and figures of applicant.	
No credits have been allowed for the following	
mining claims as they were not sufficiently covered by the survey:	
covered by the survey.	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40;

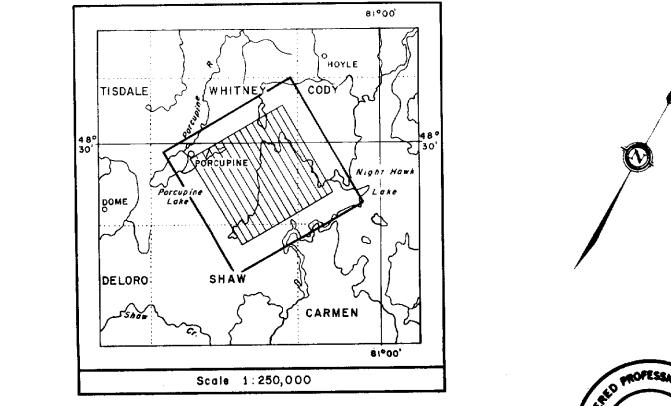


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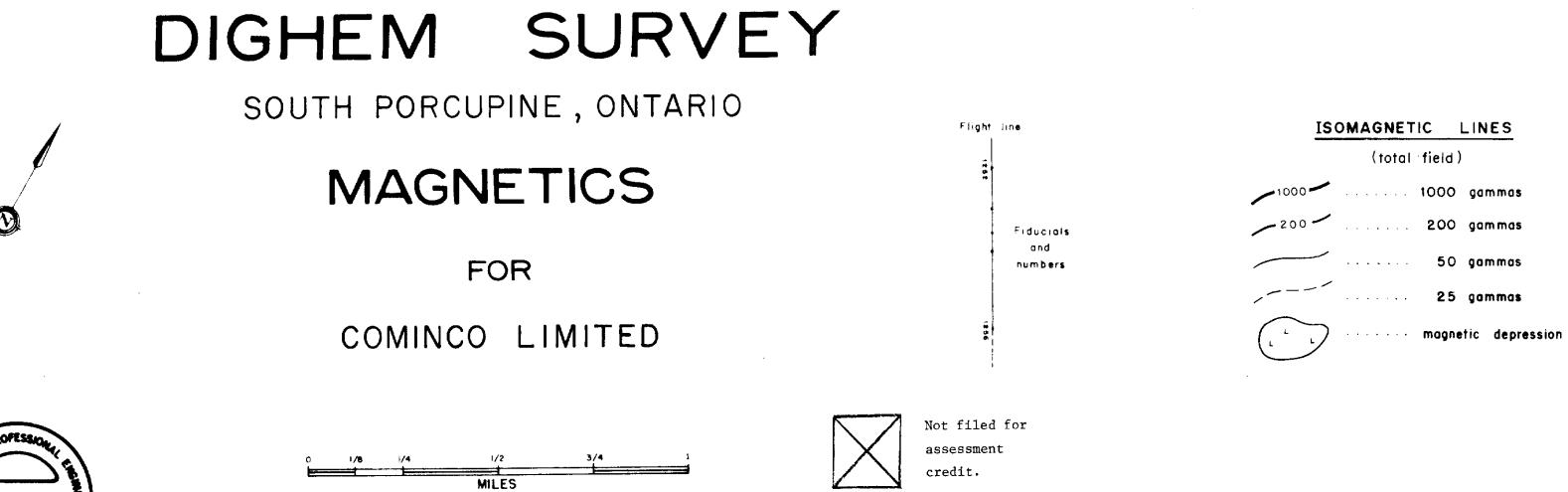




LOCATION MAP





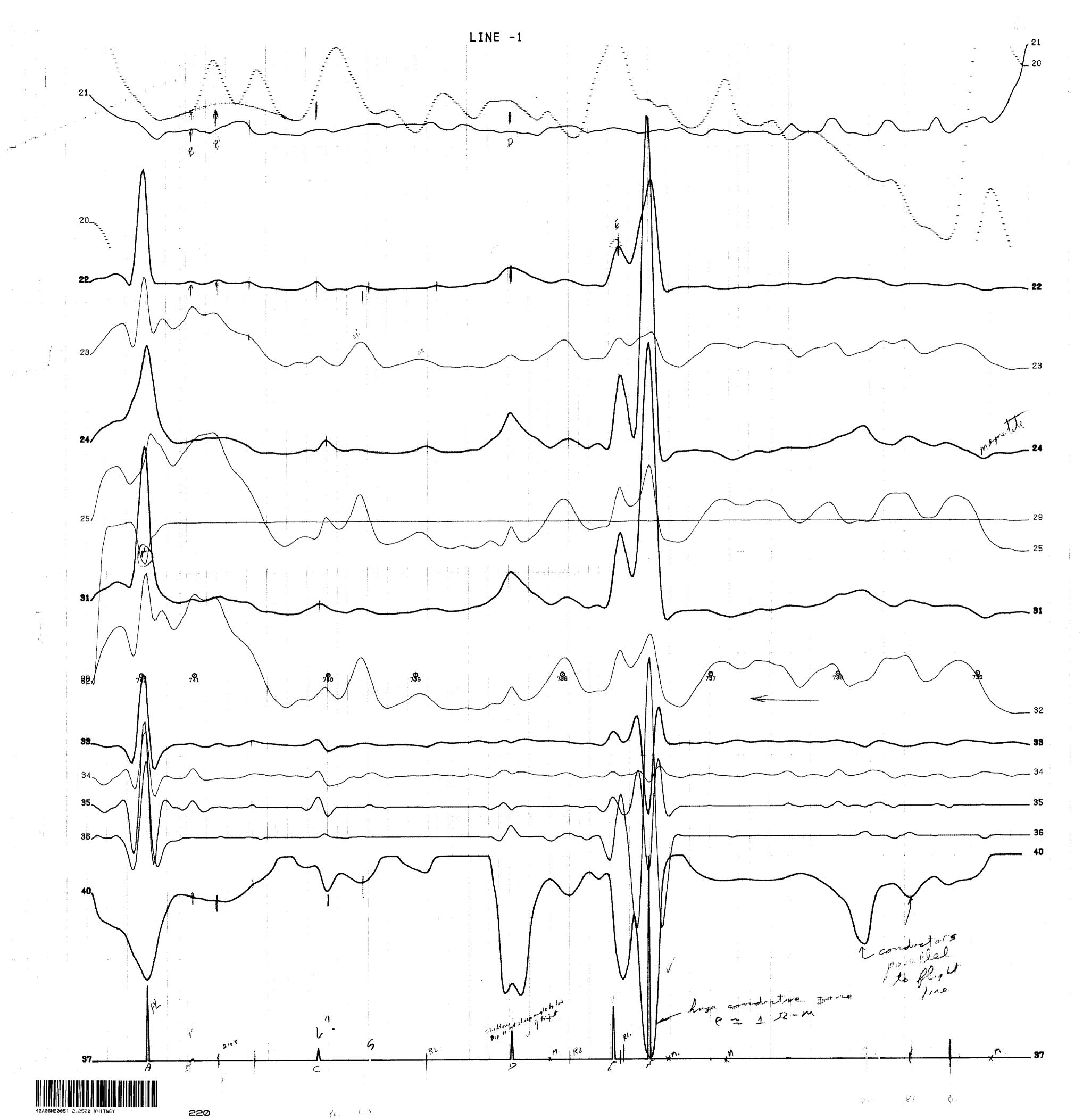


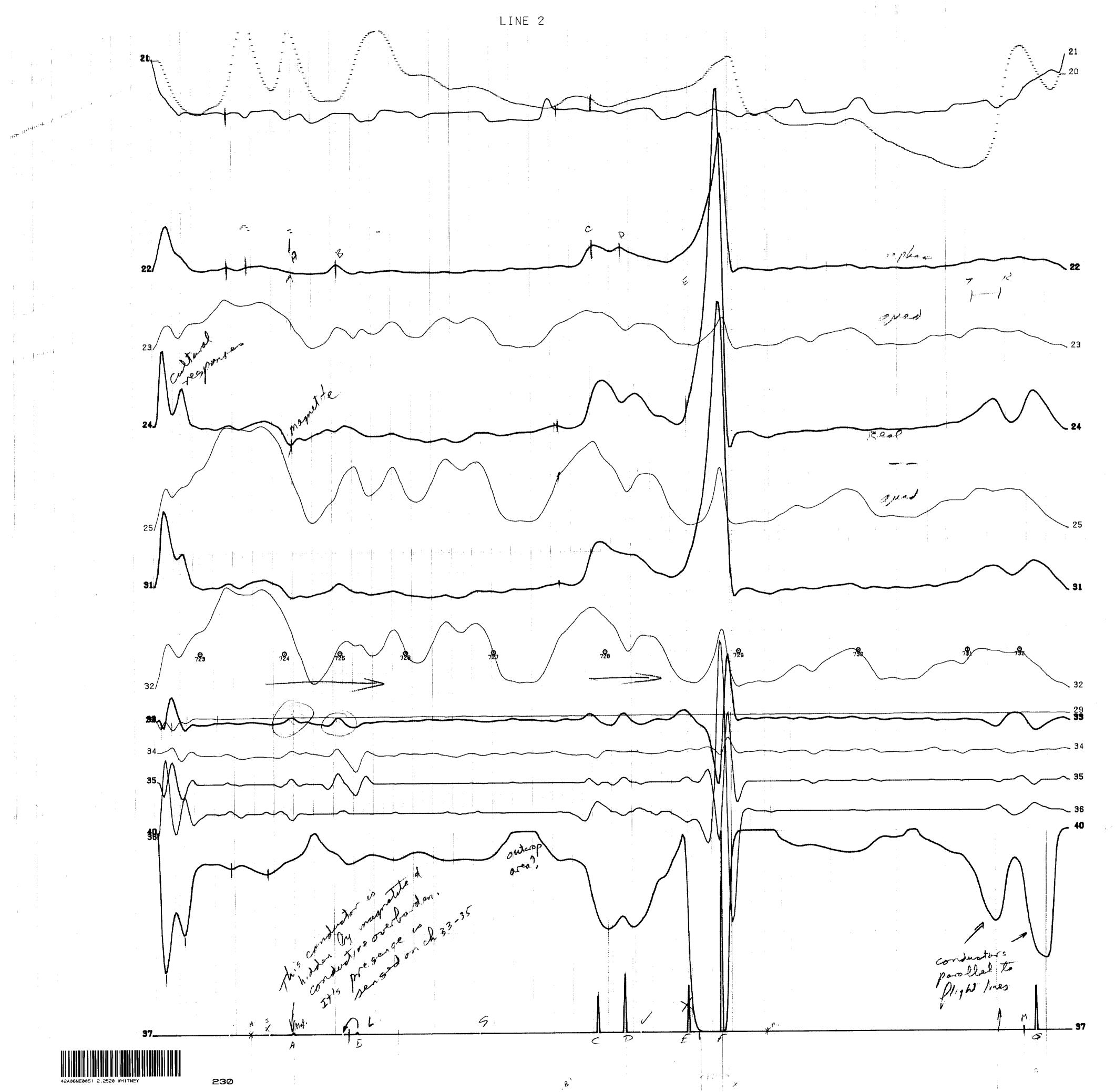
Map #2: Dighem Survey -Magnetics, l"=1320'

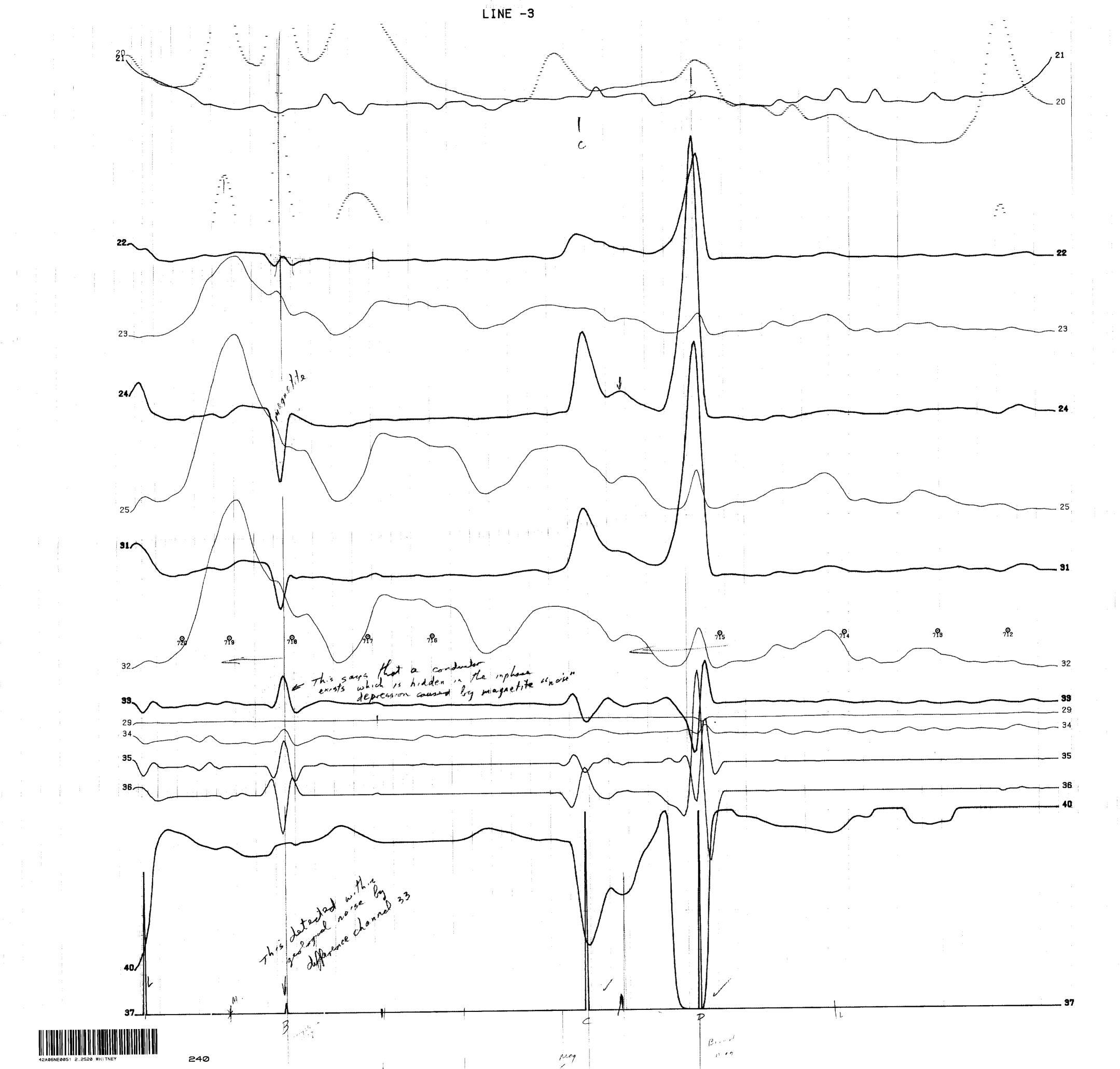
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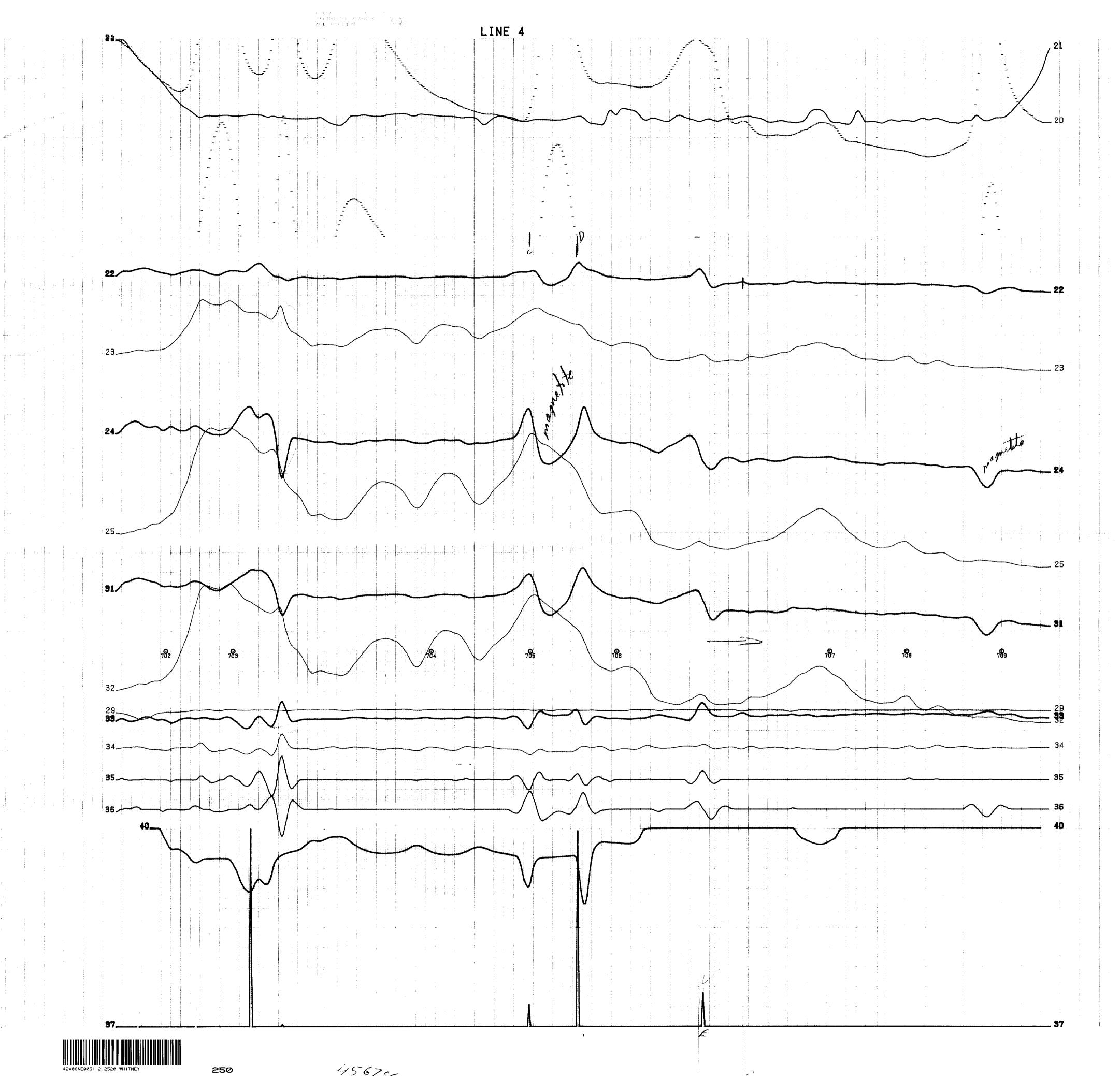
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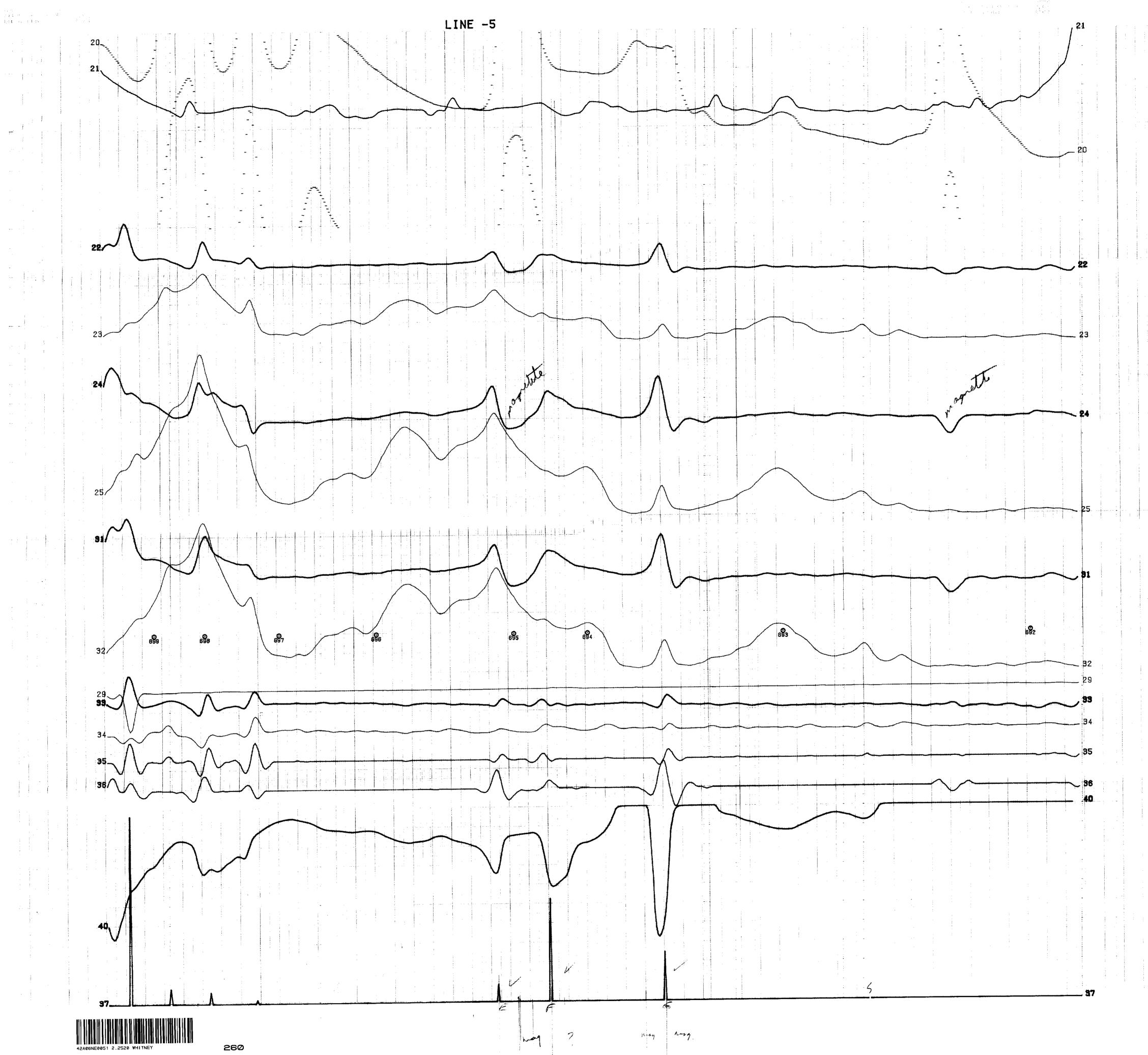


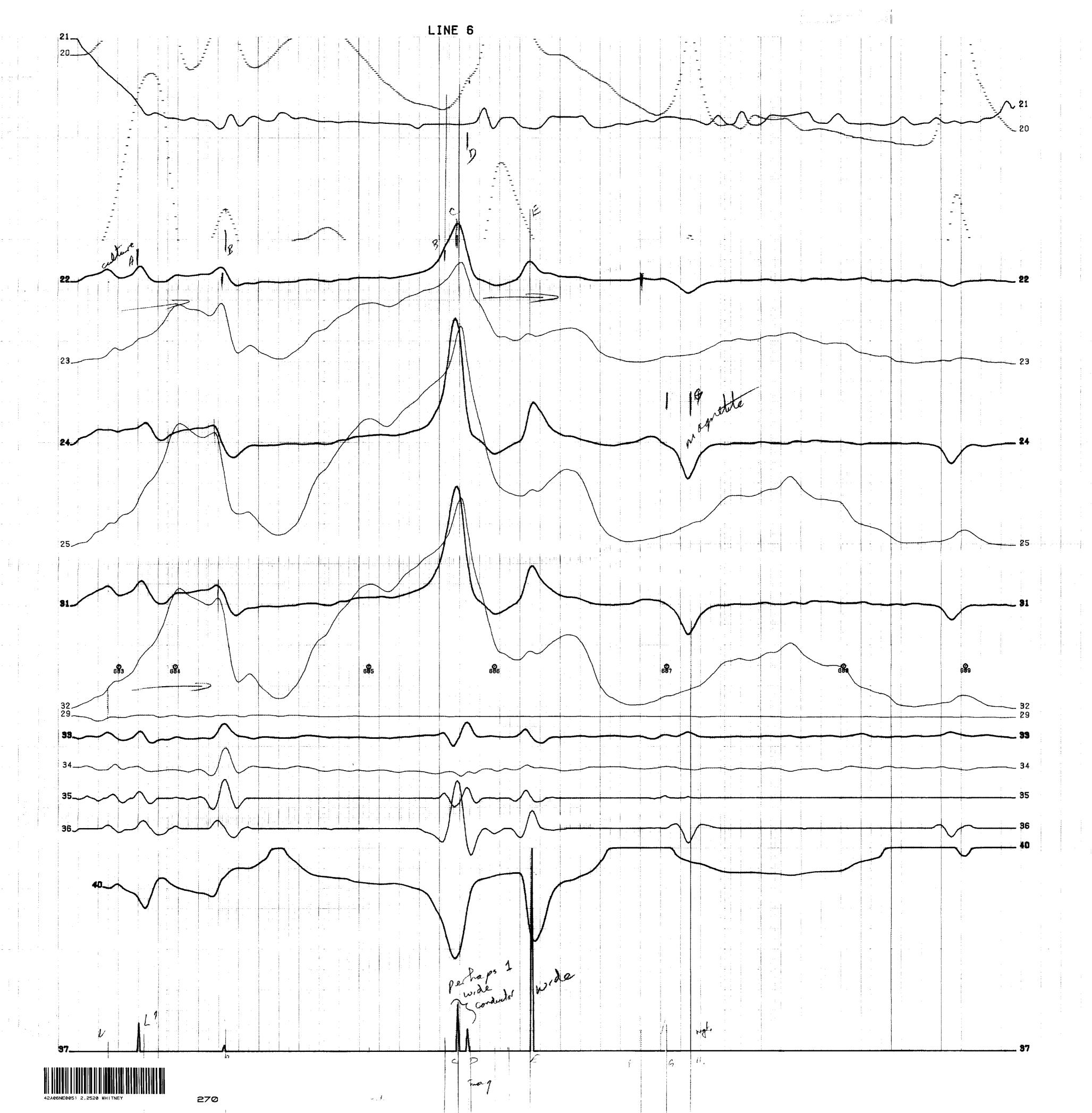


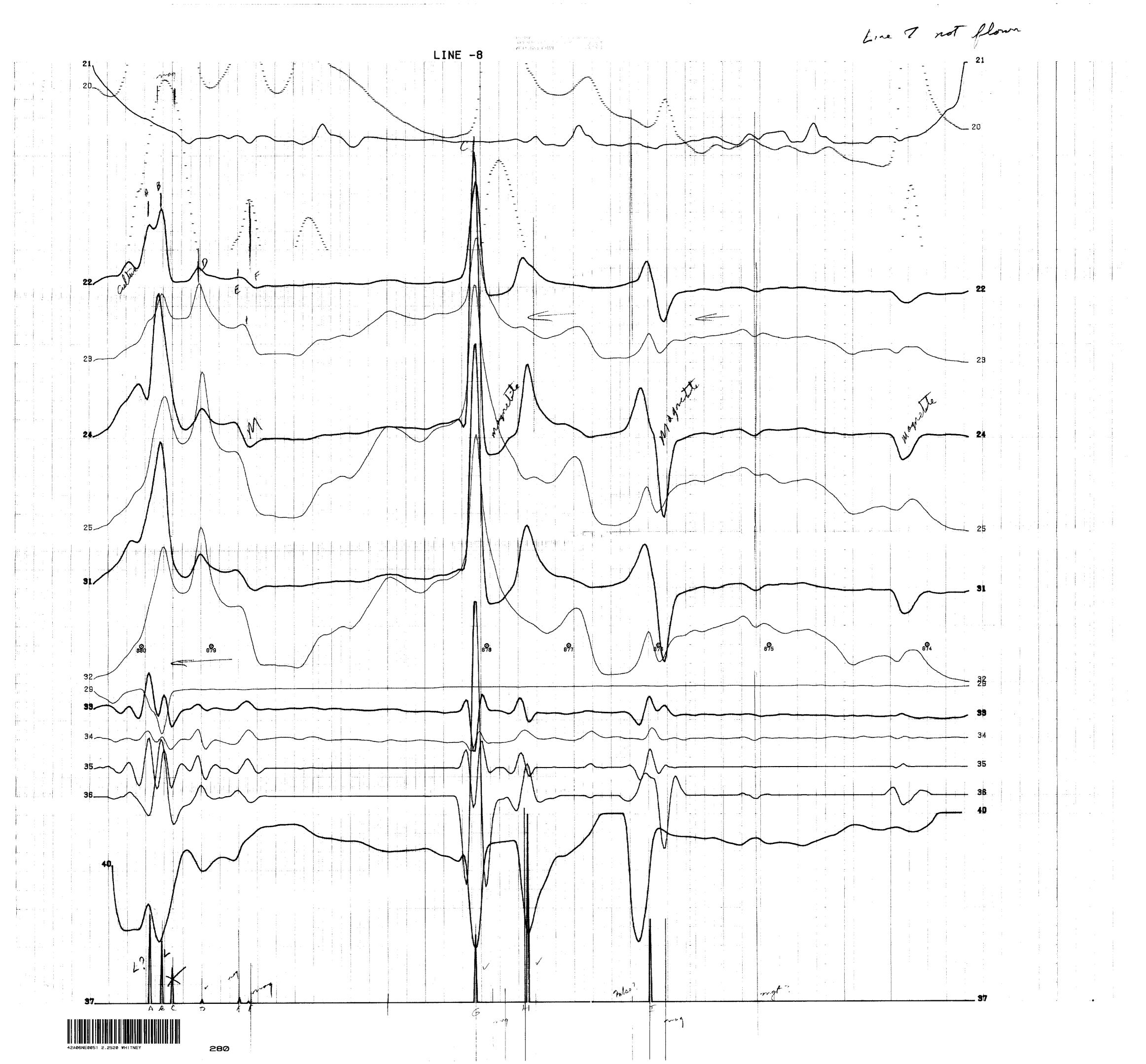


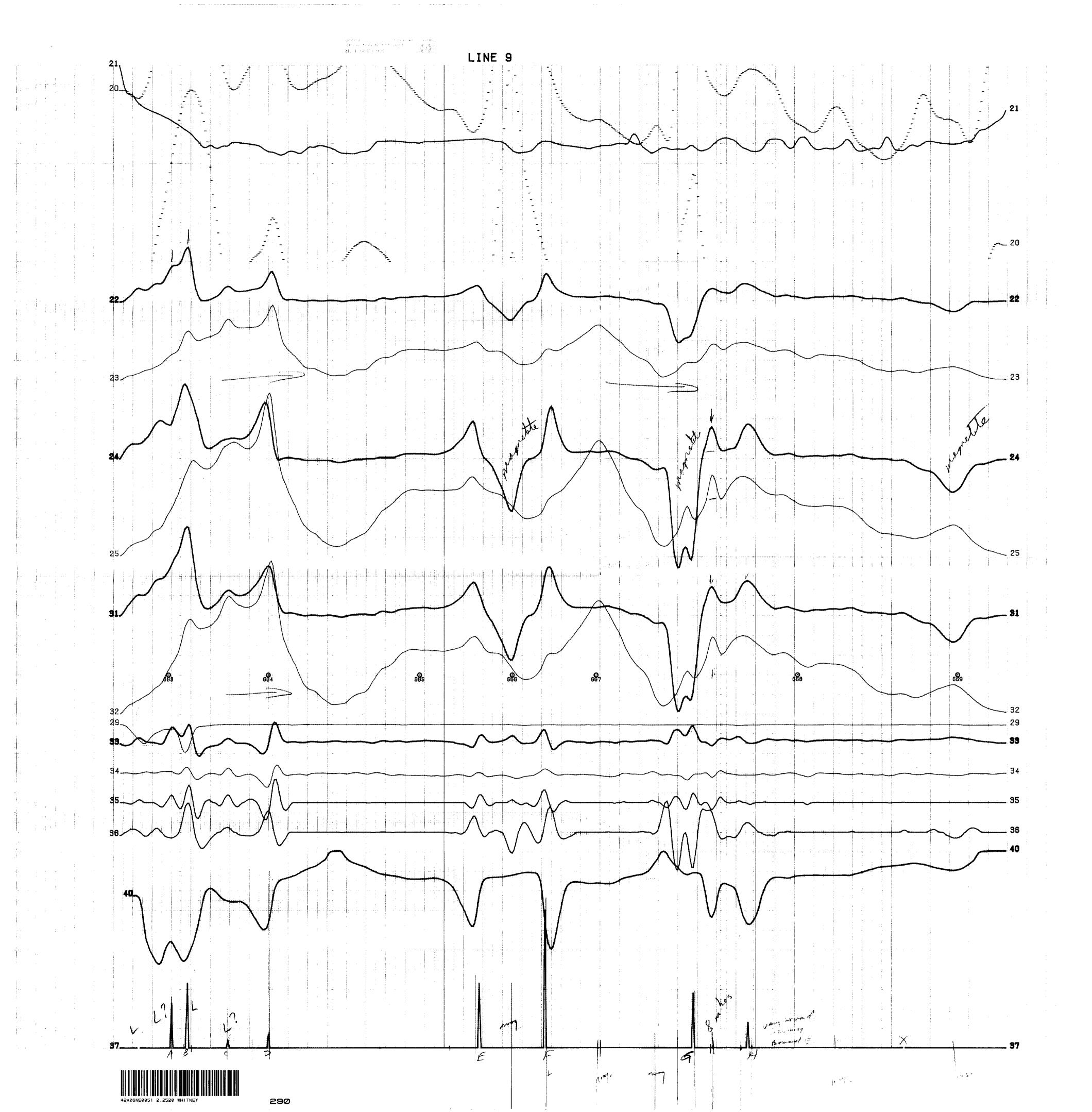


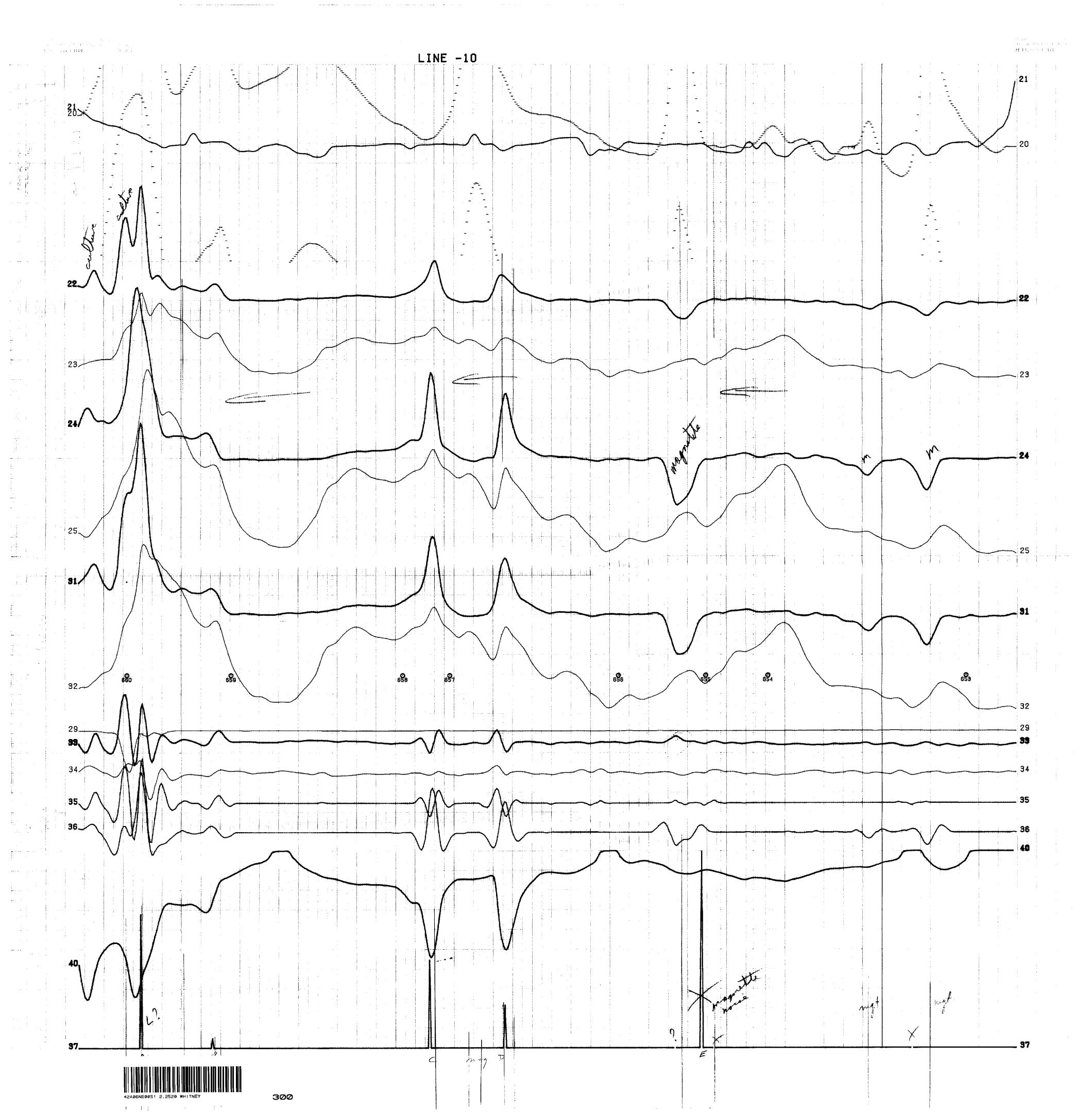
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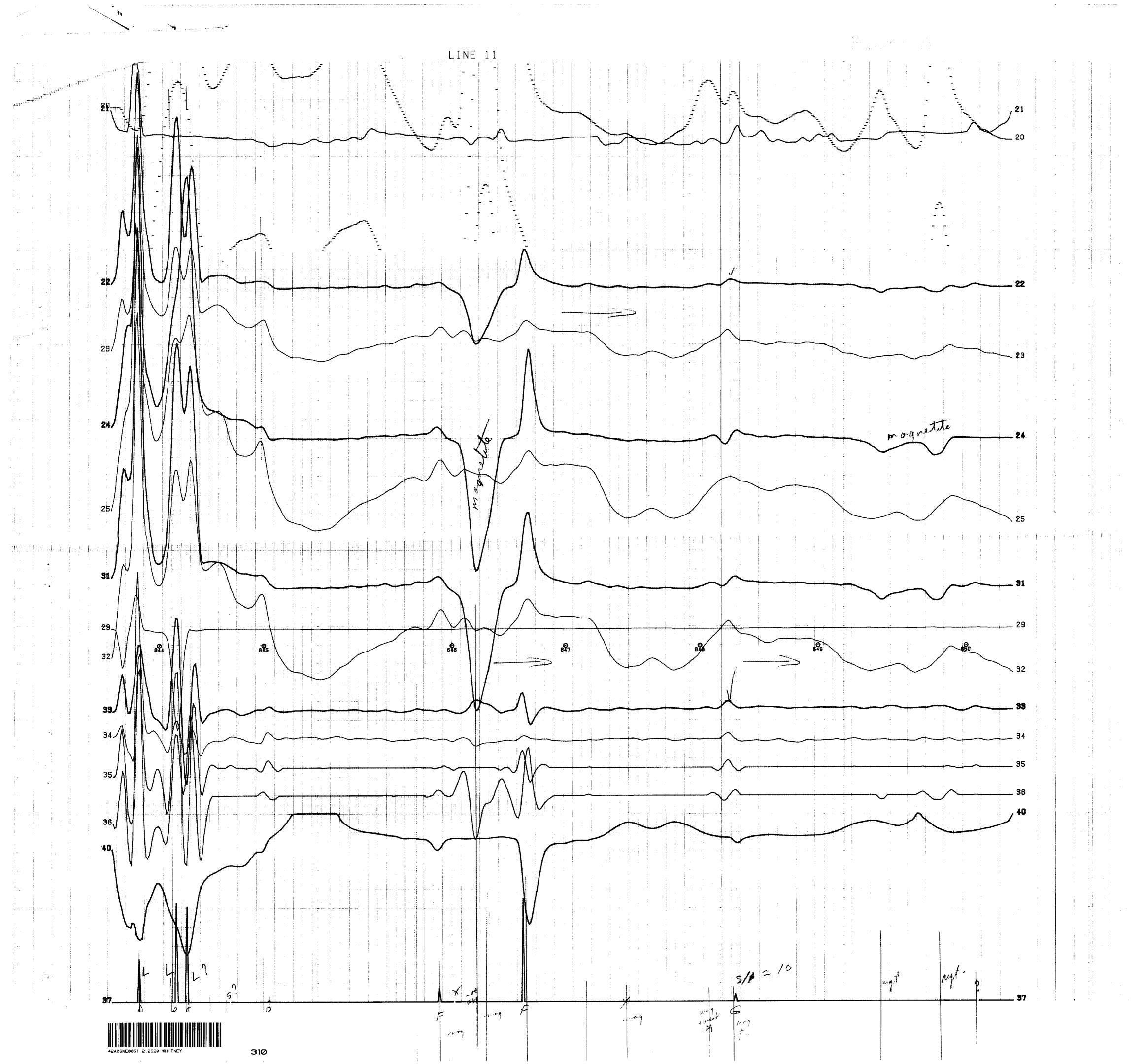


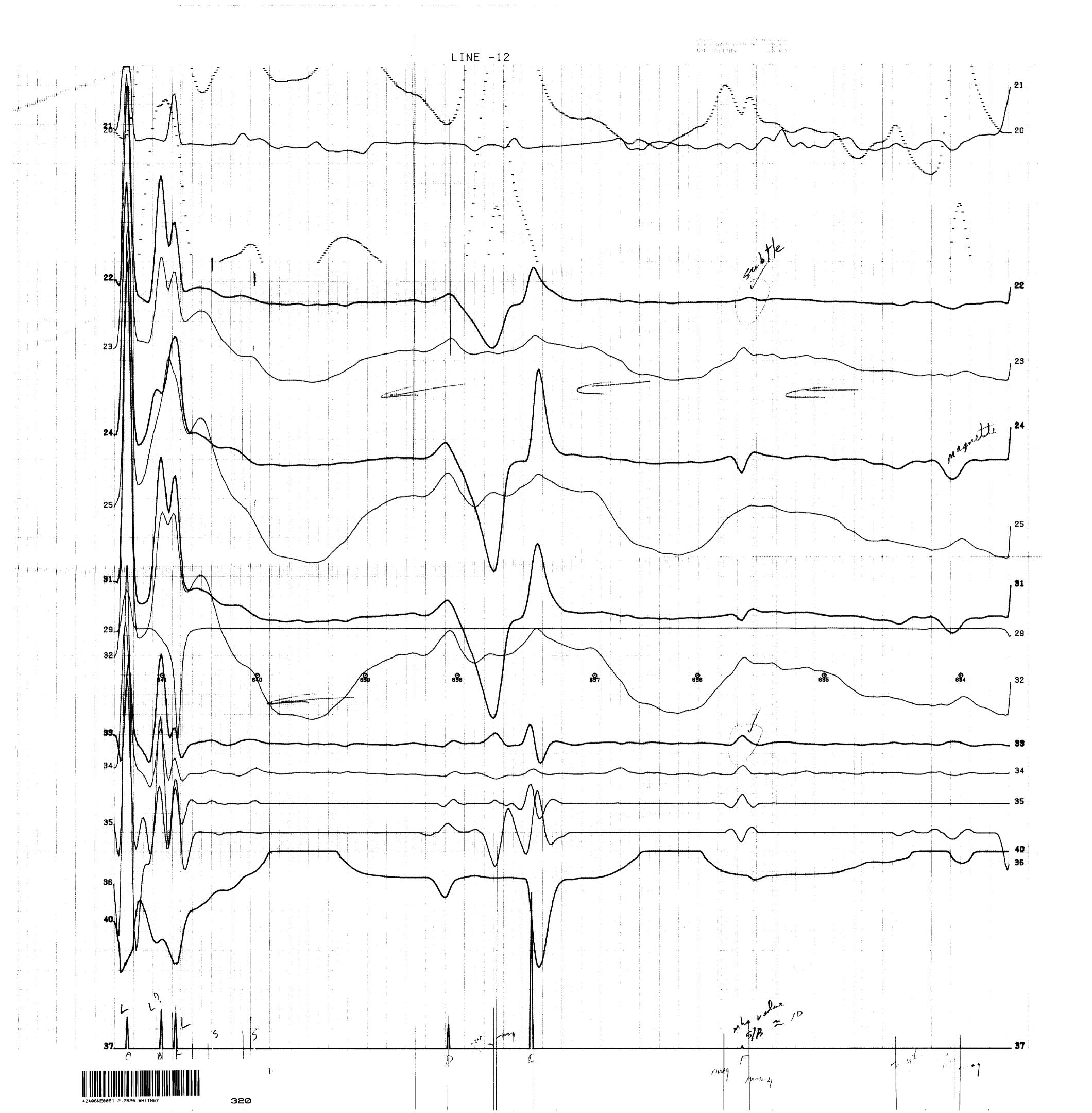


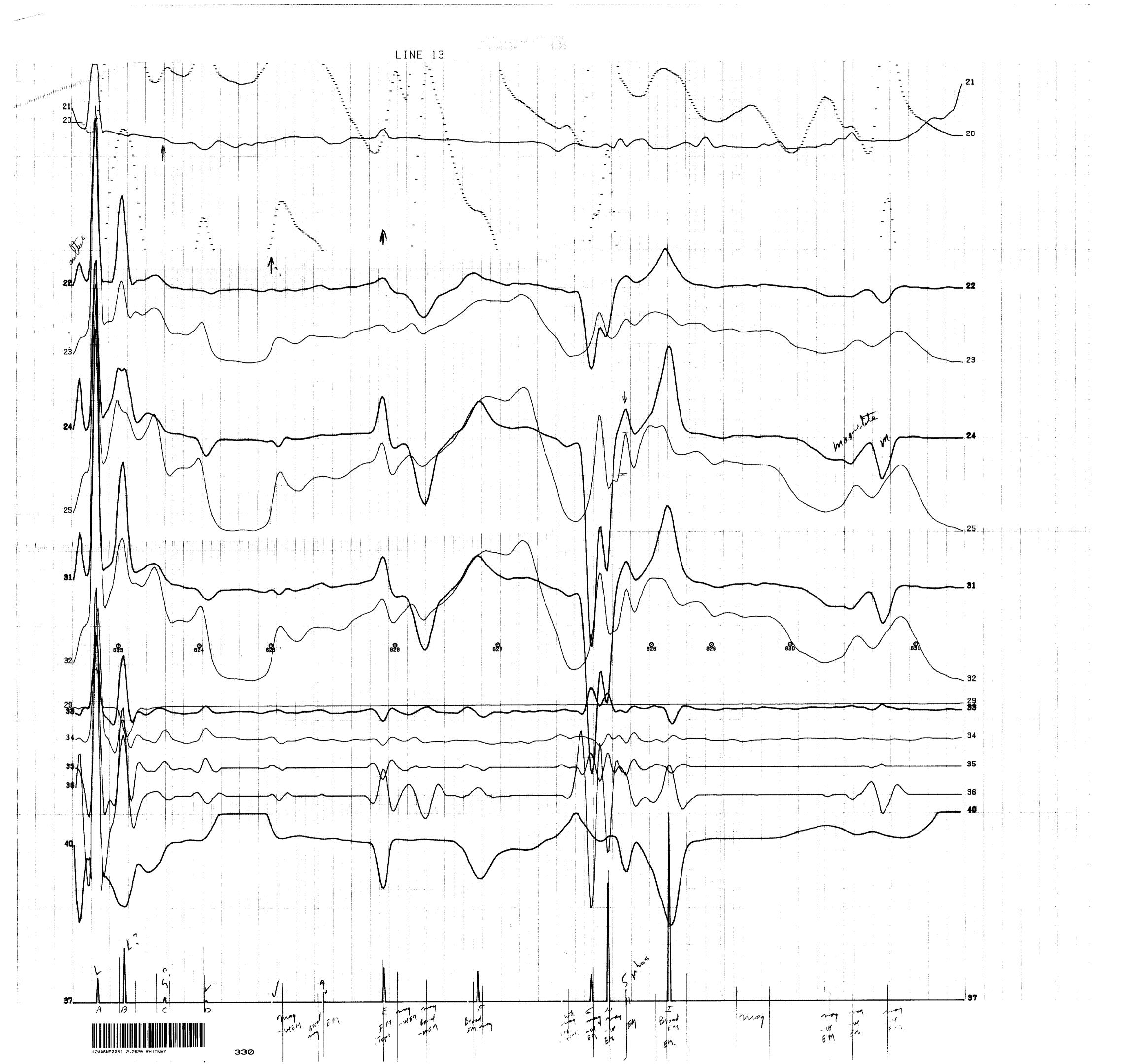


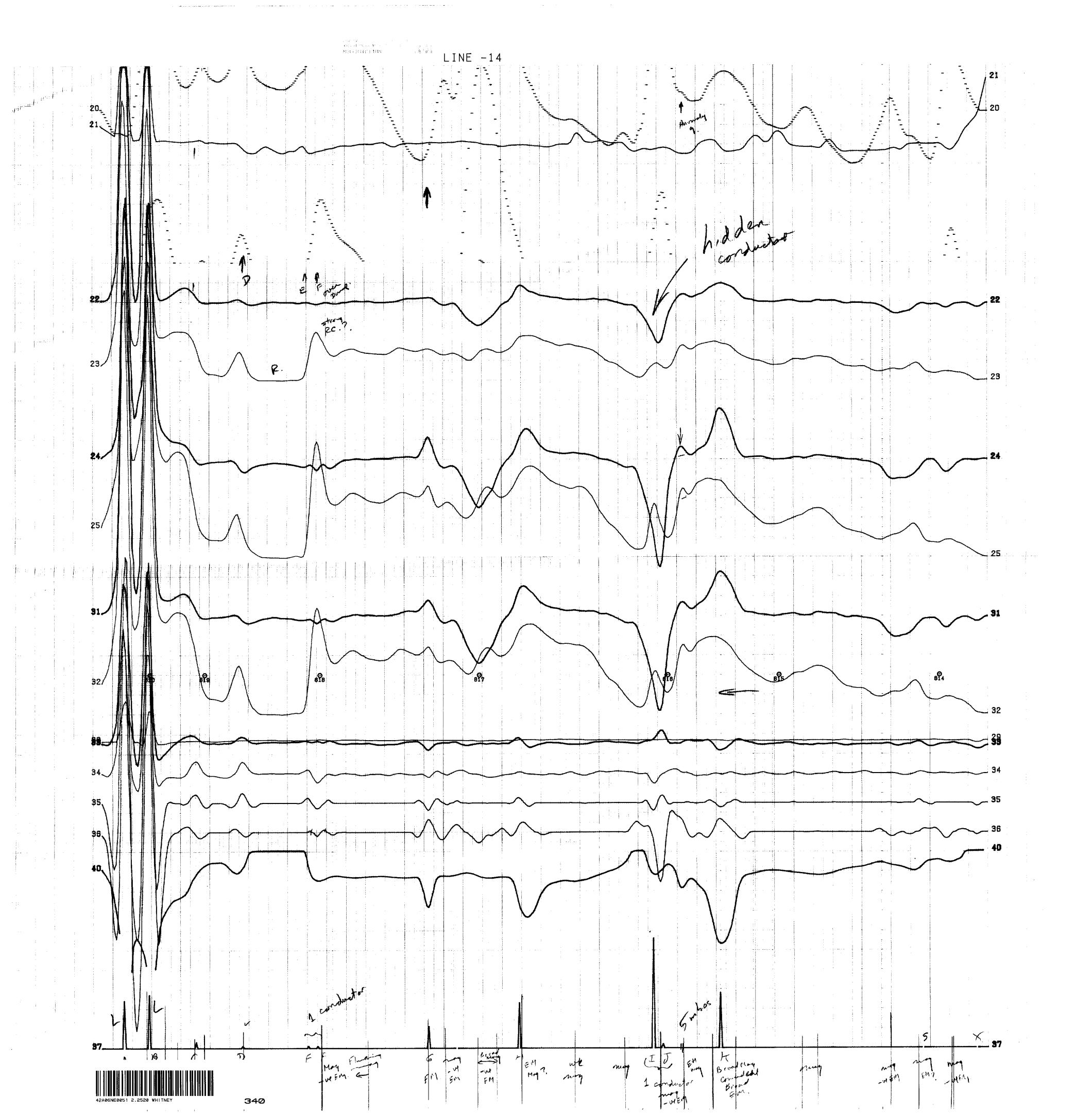


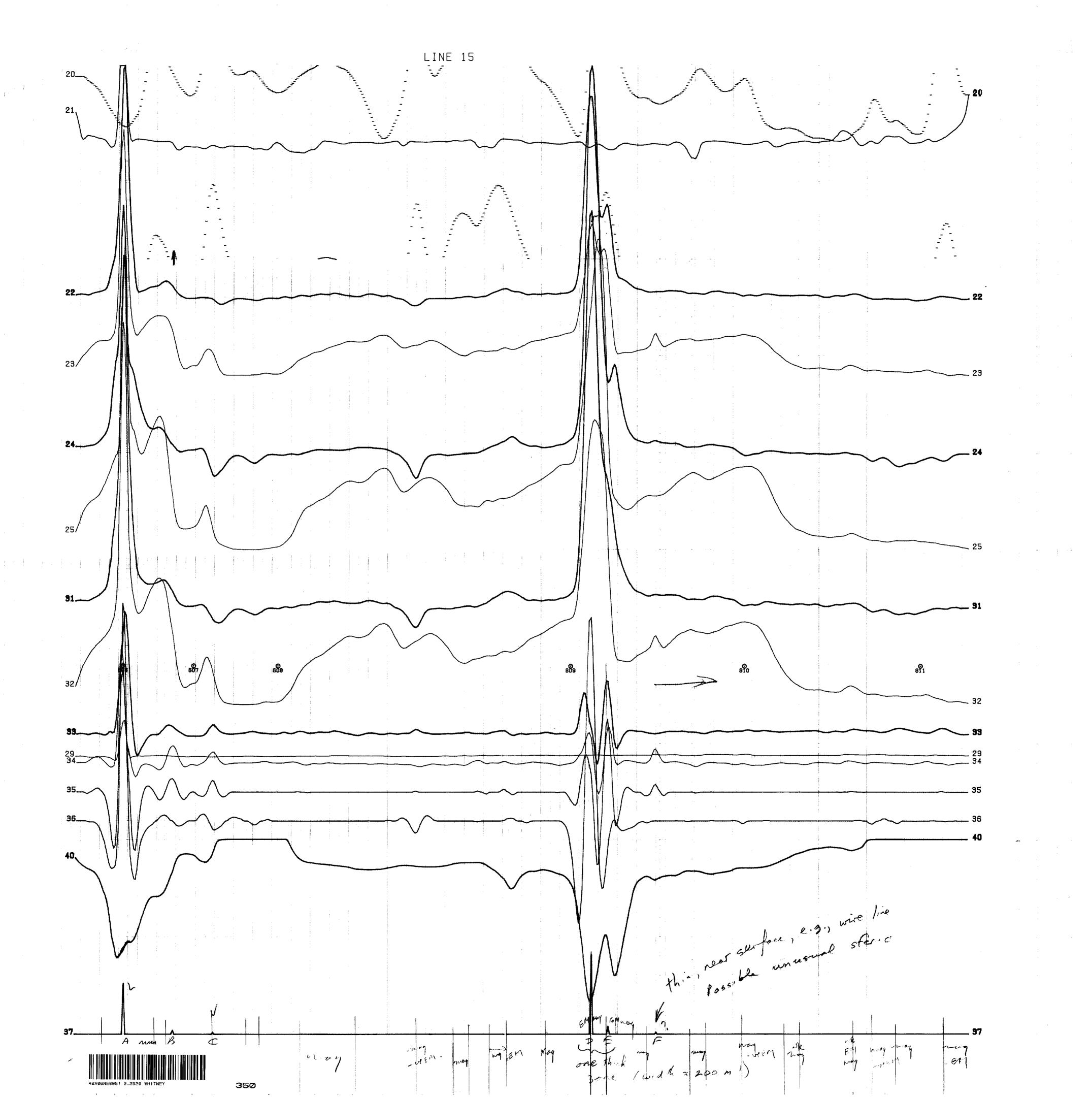


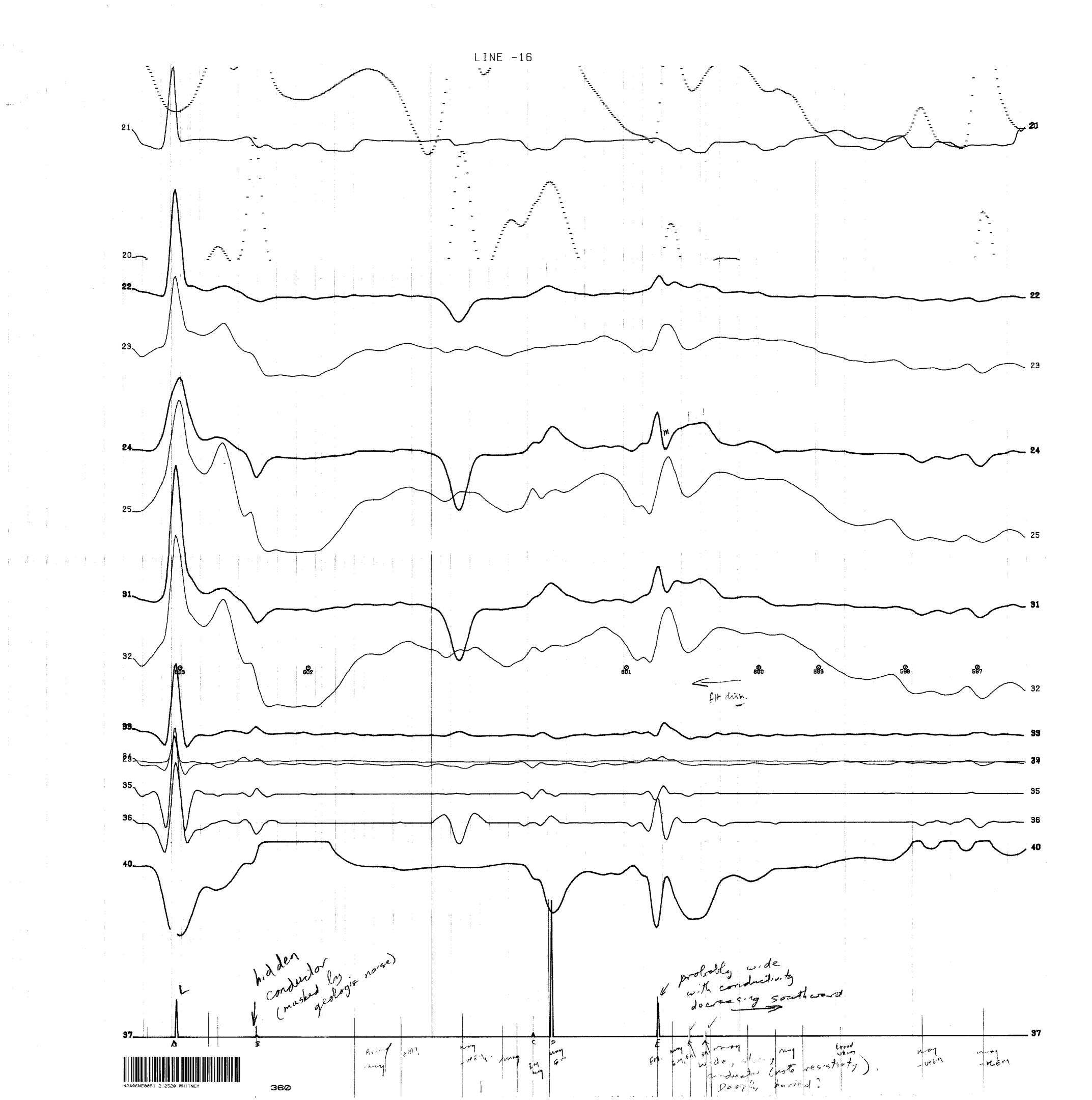


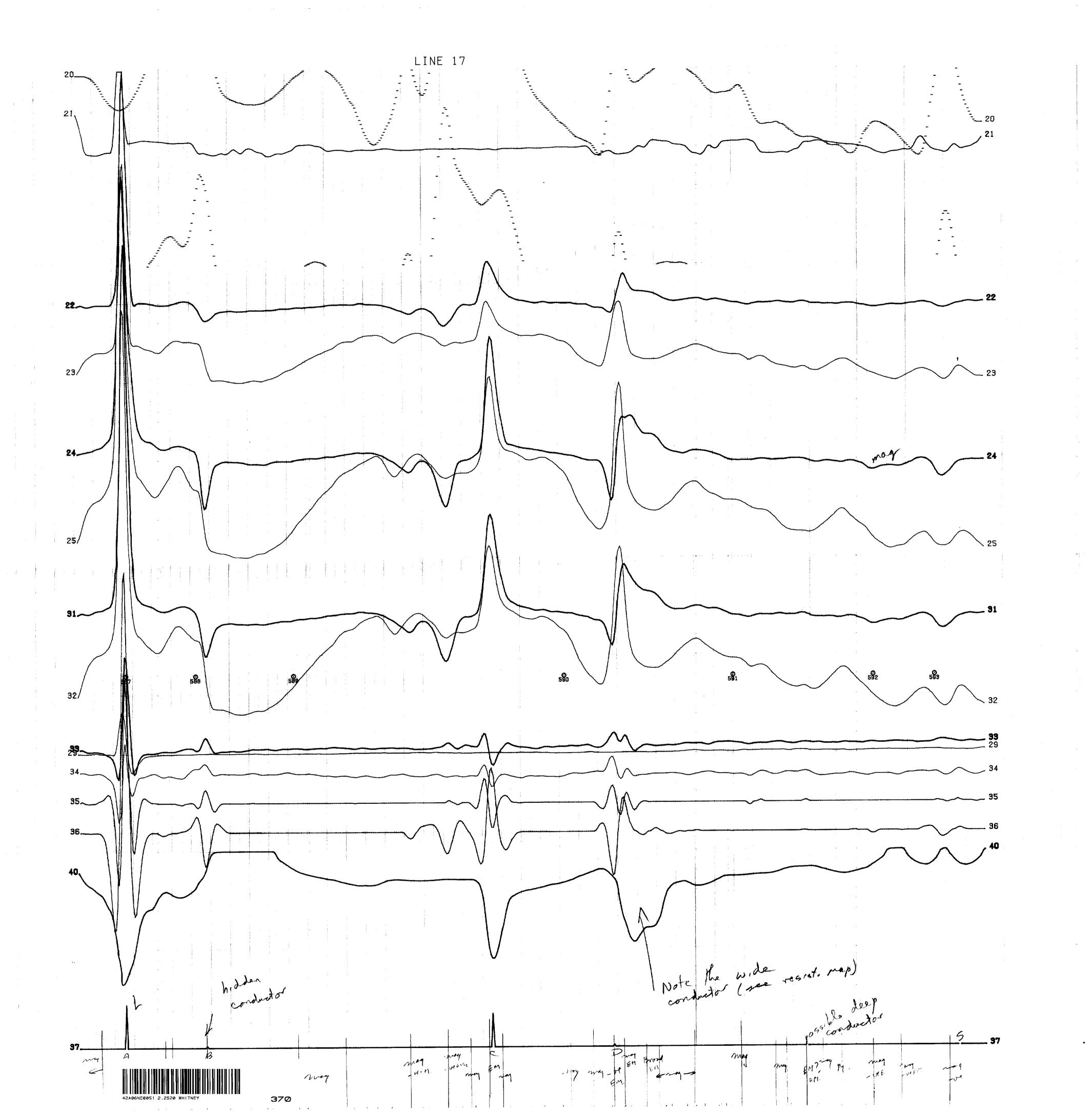


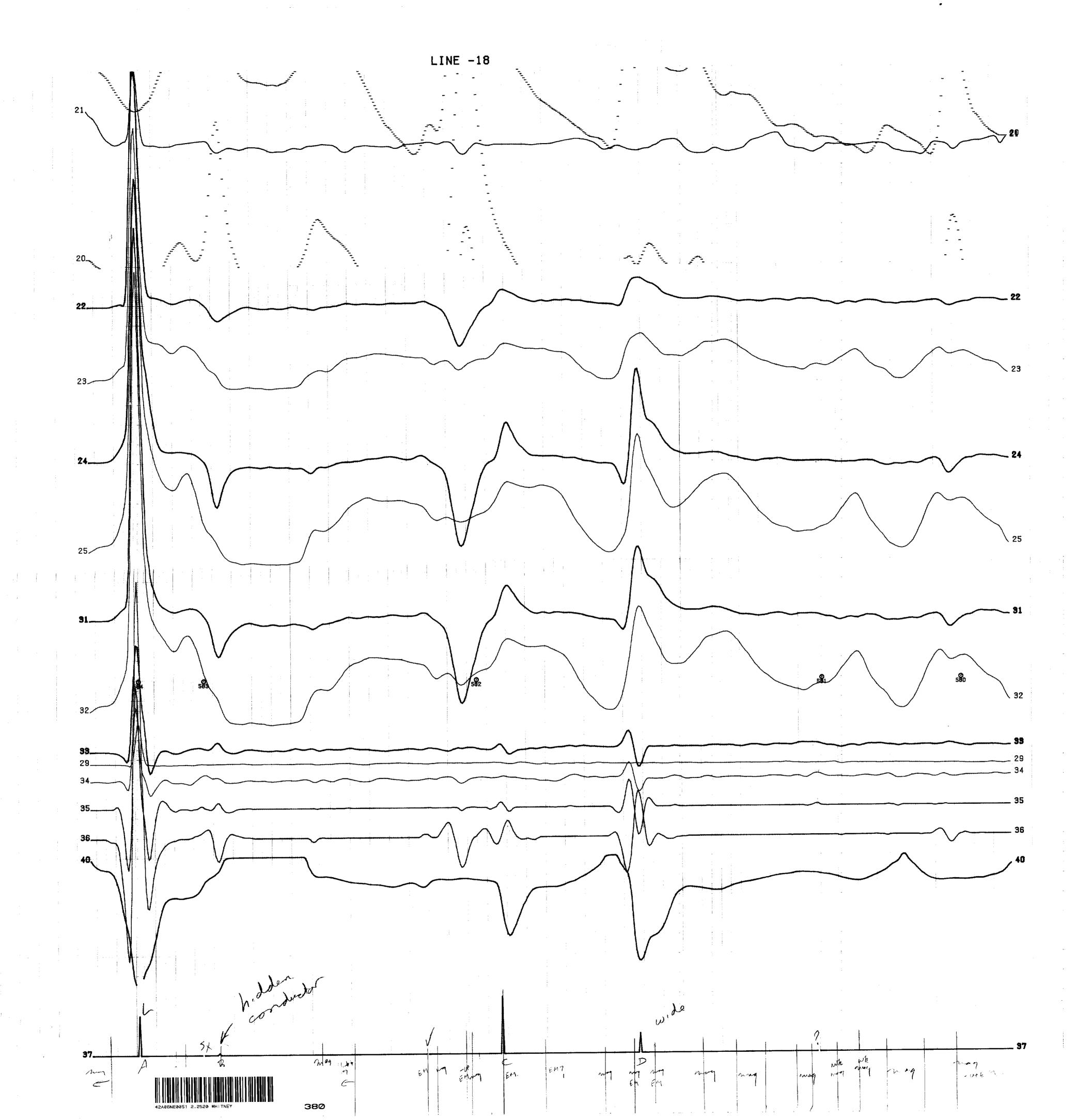




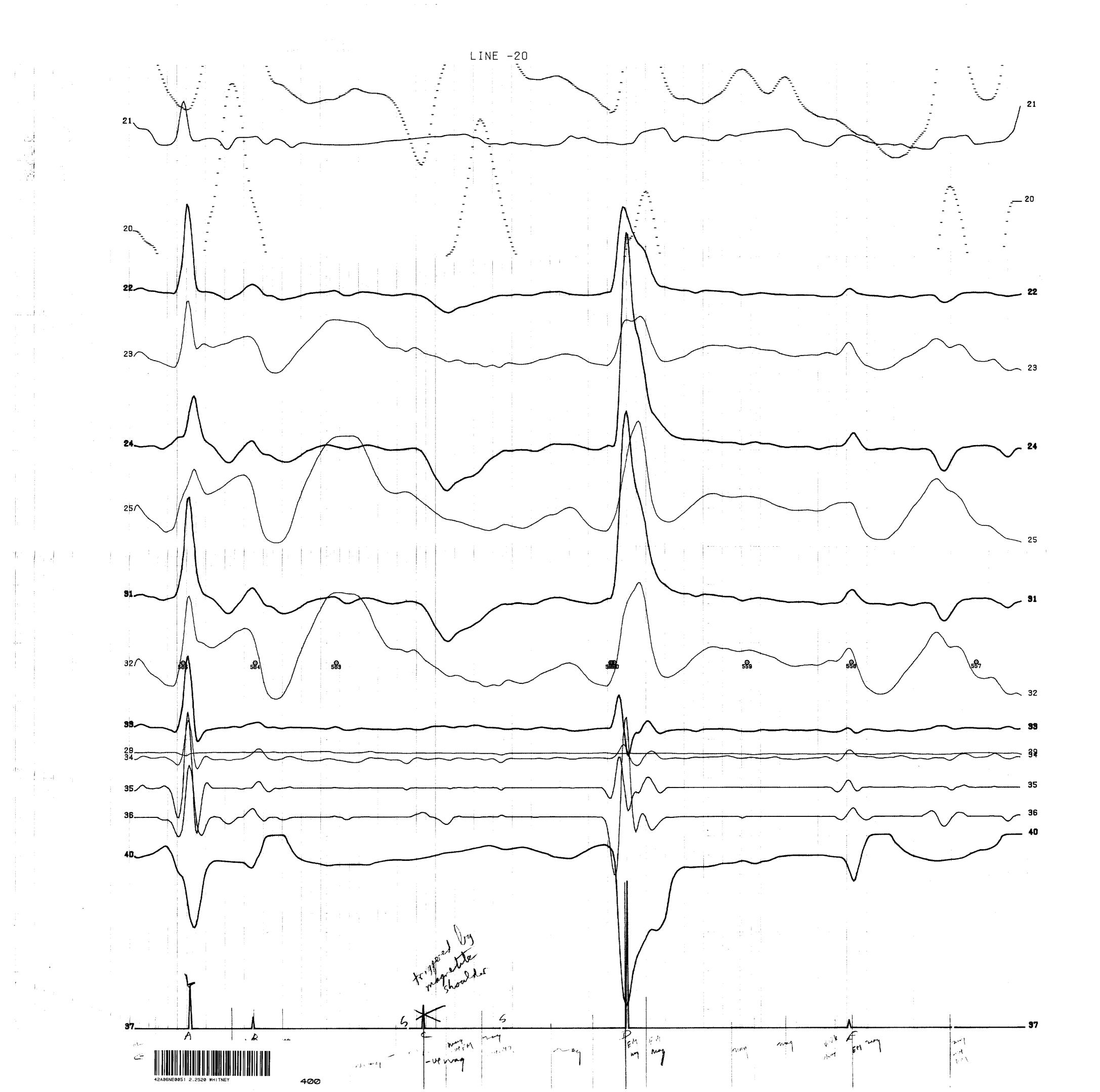


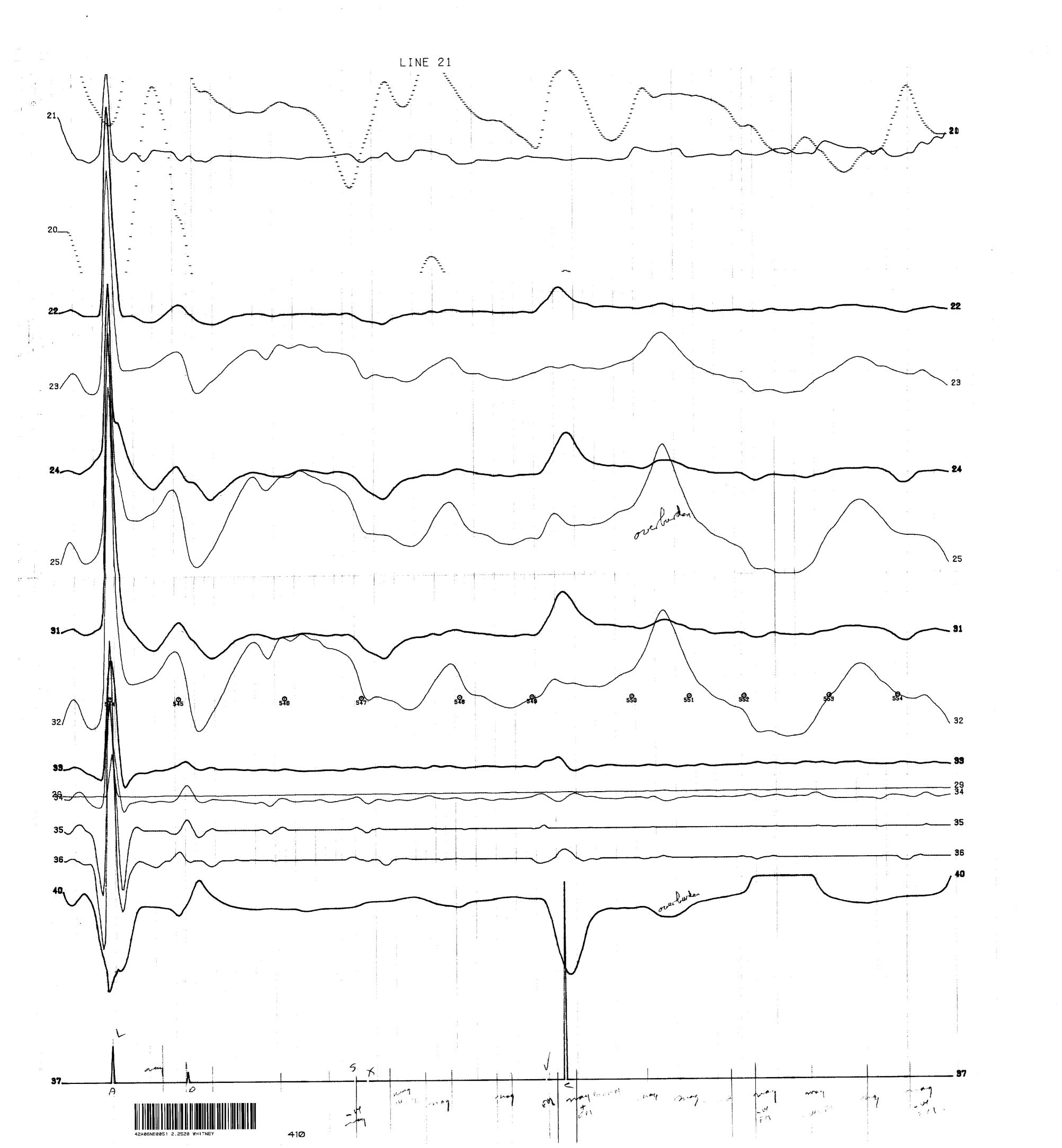


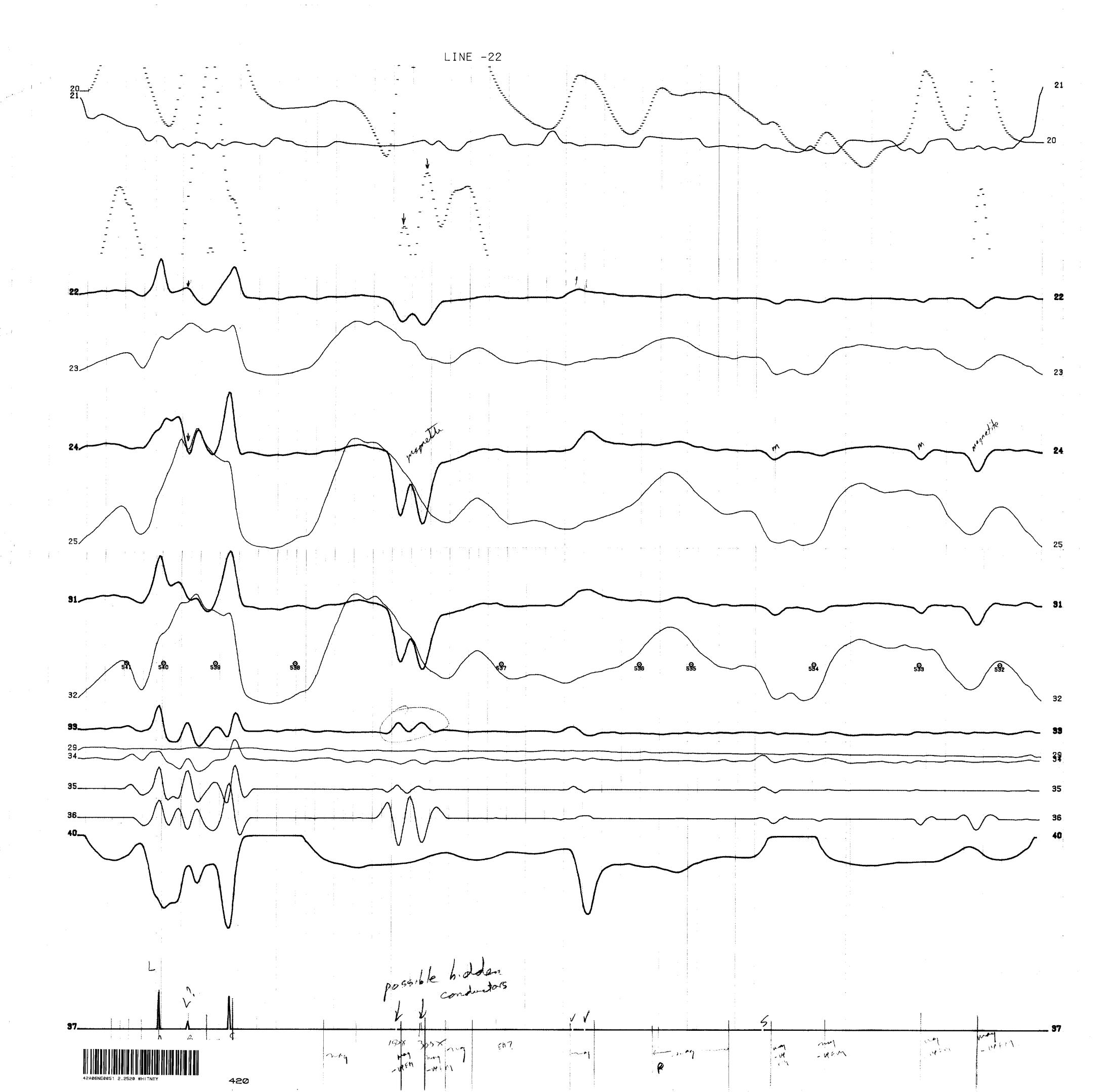


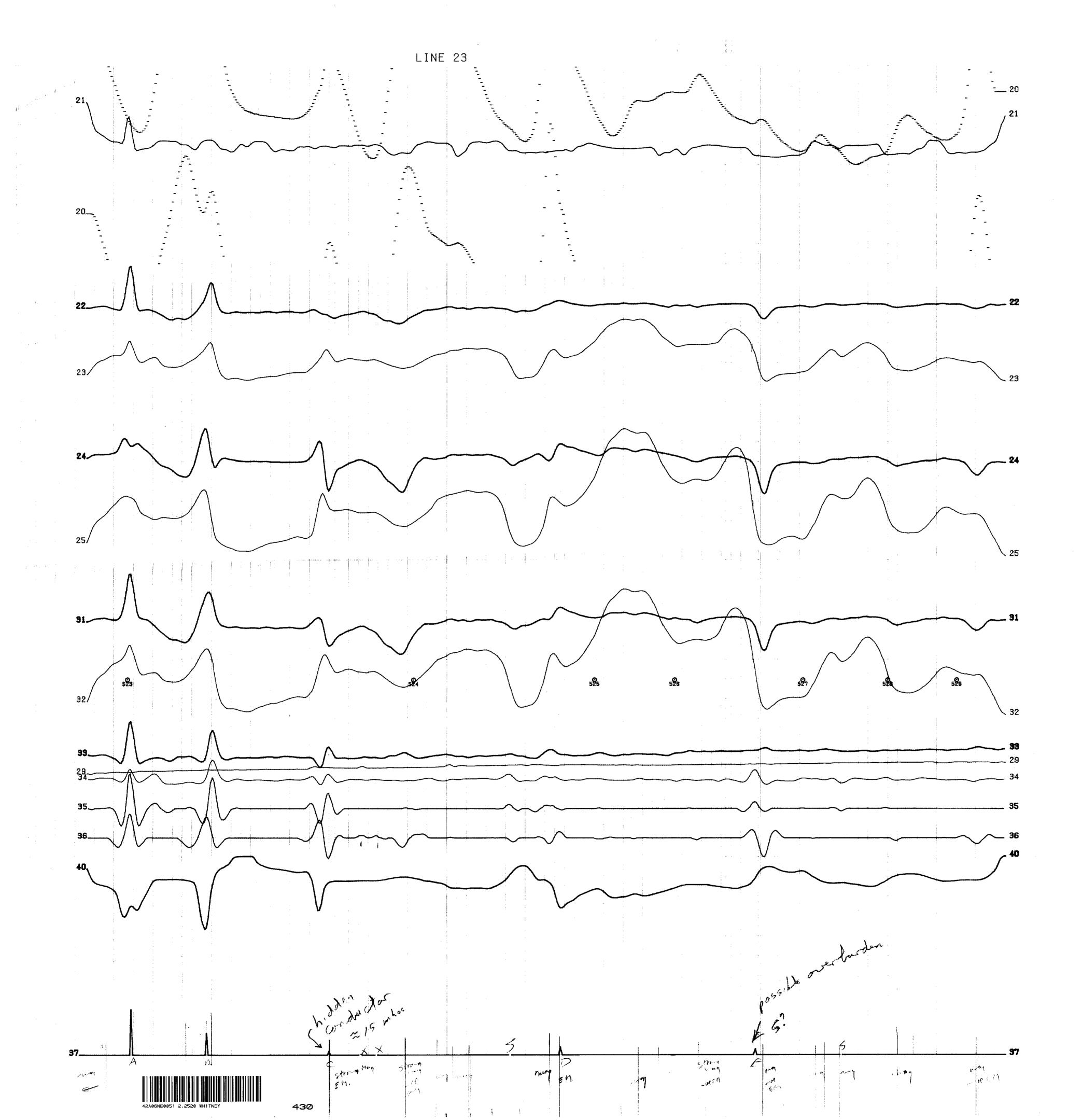


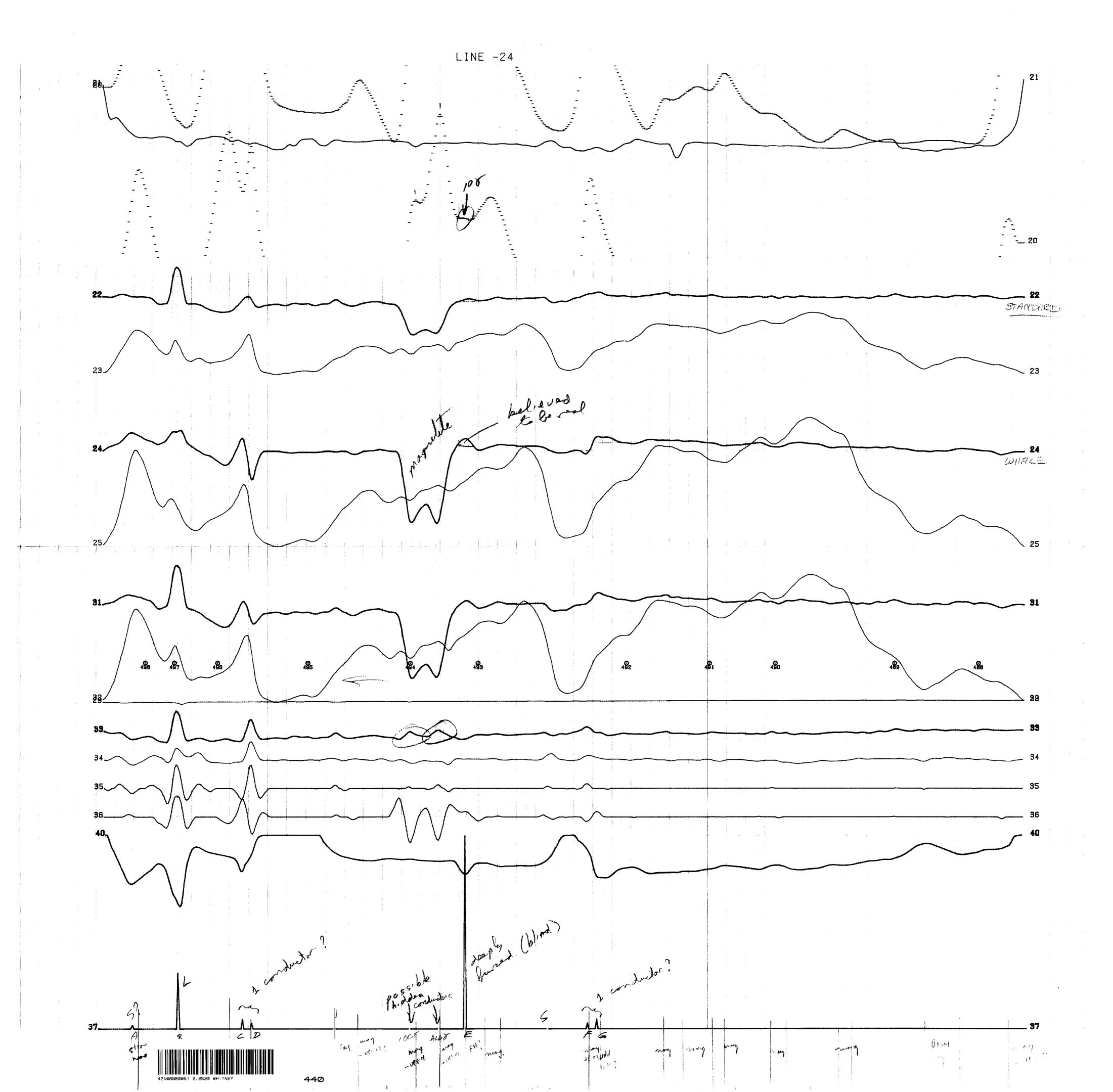


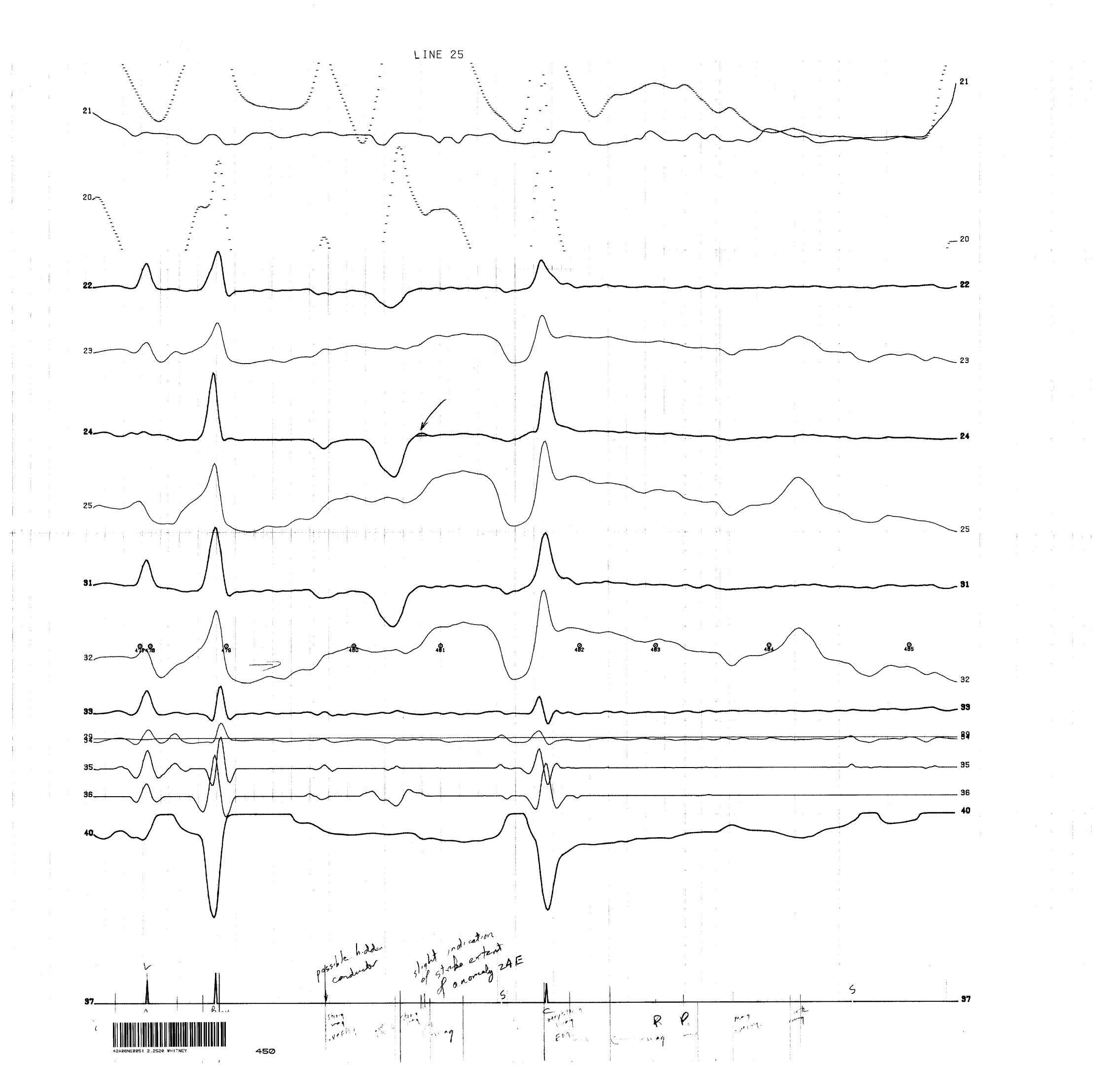


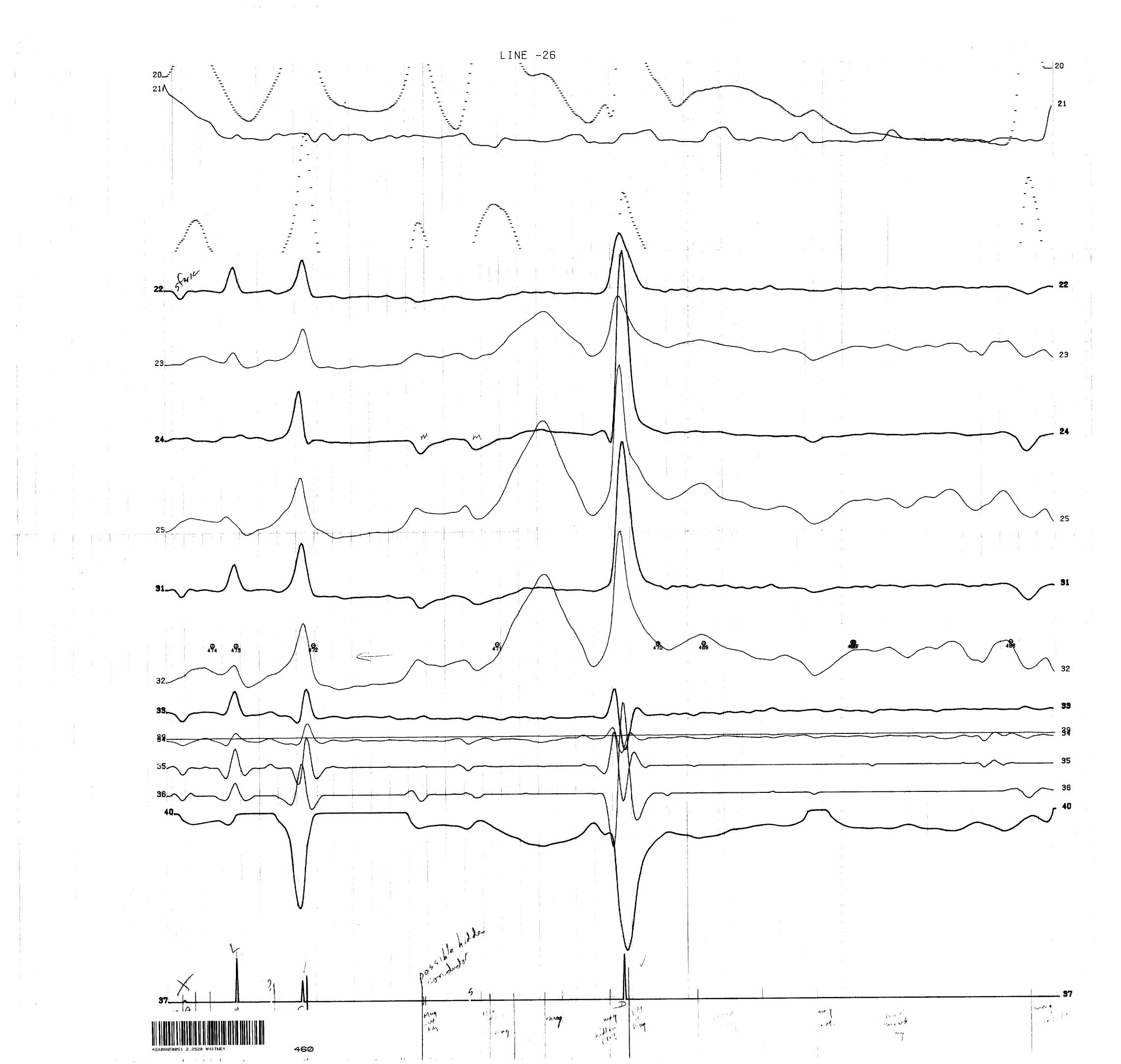


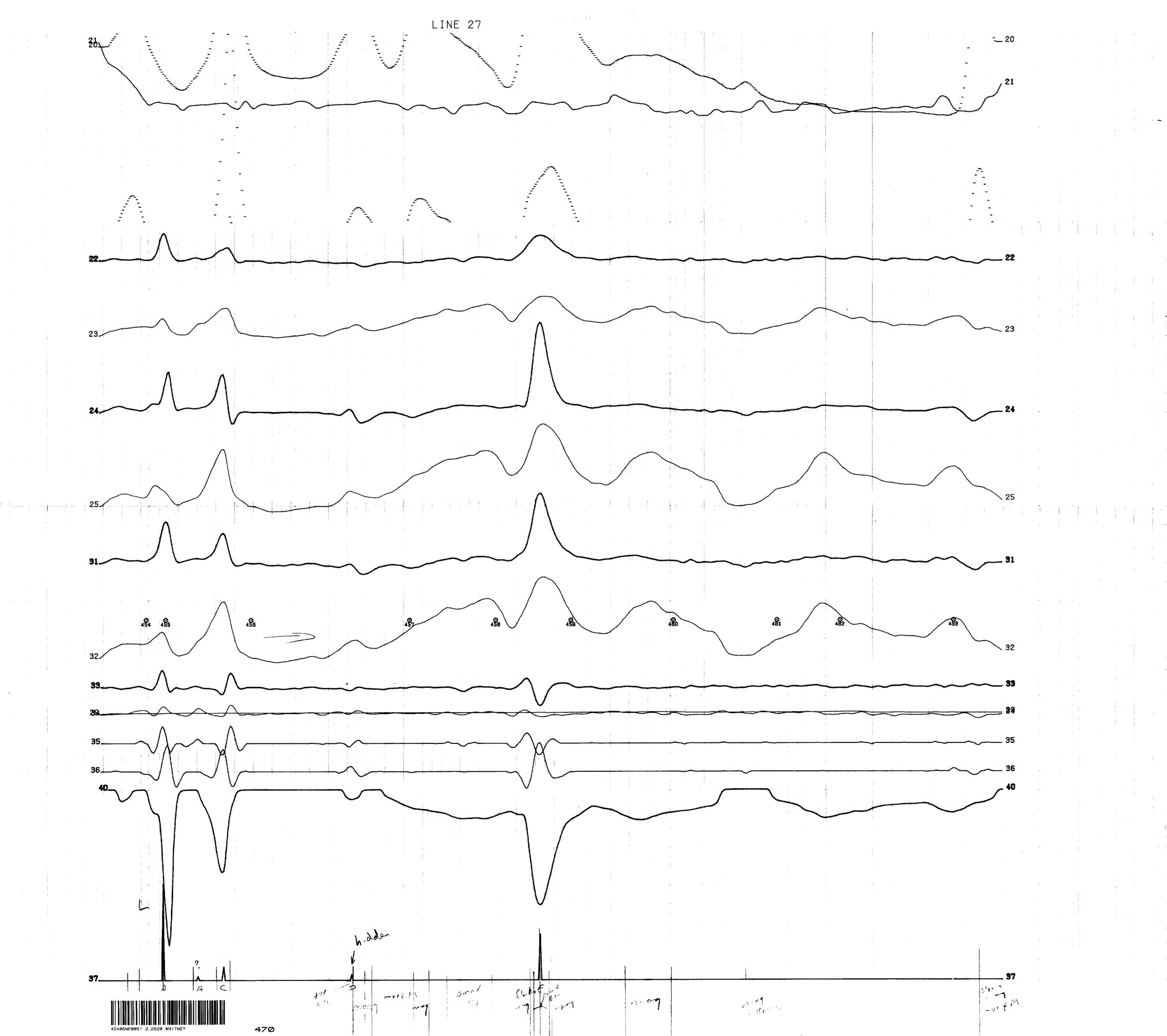


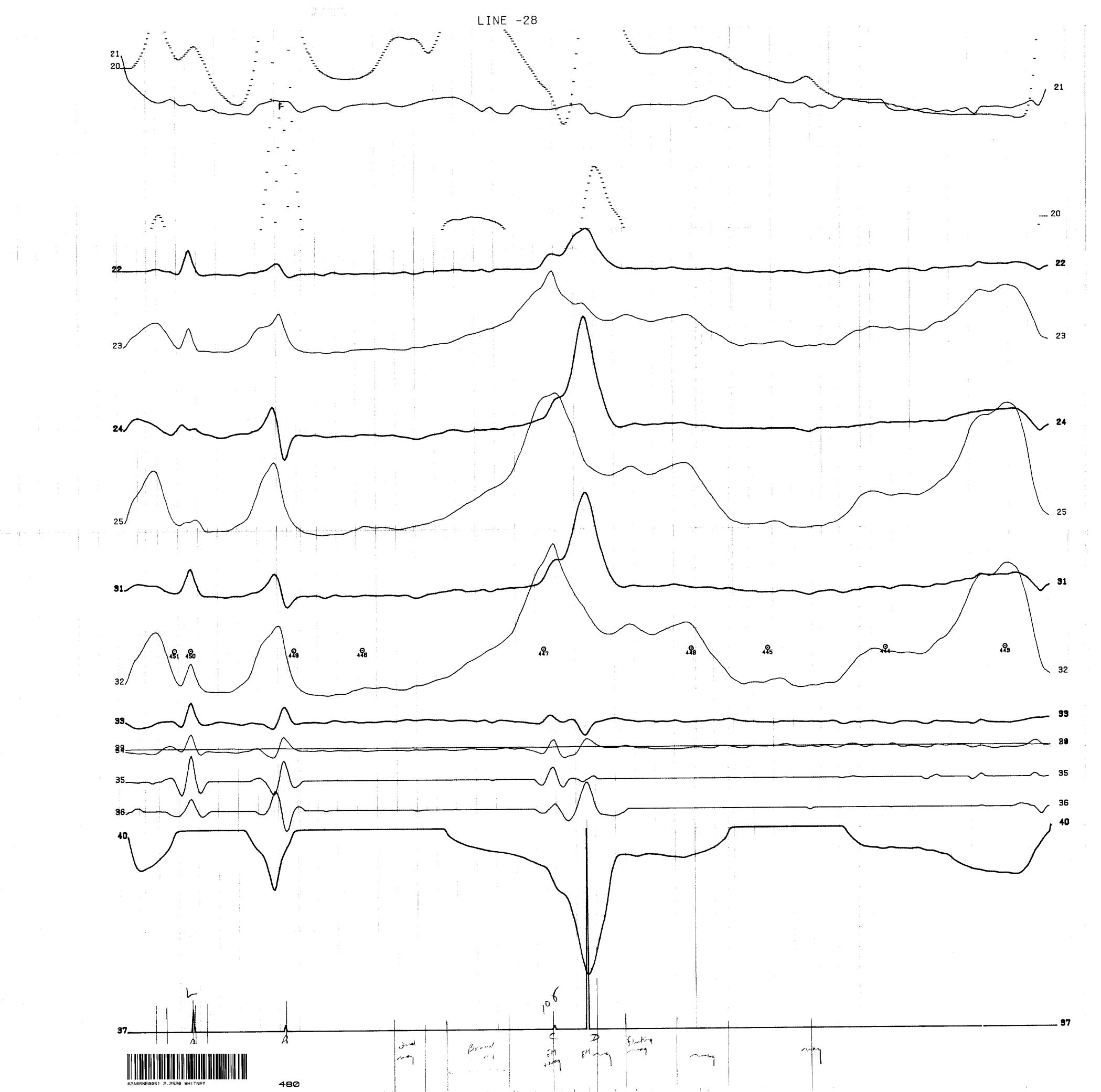


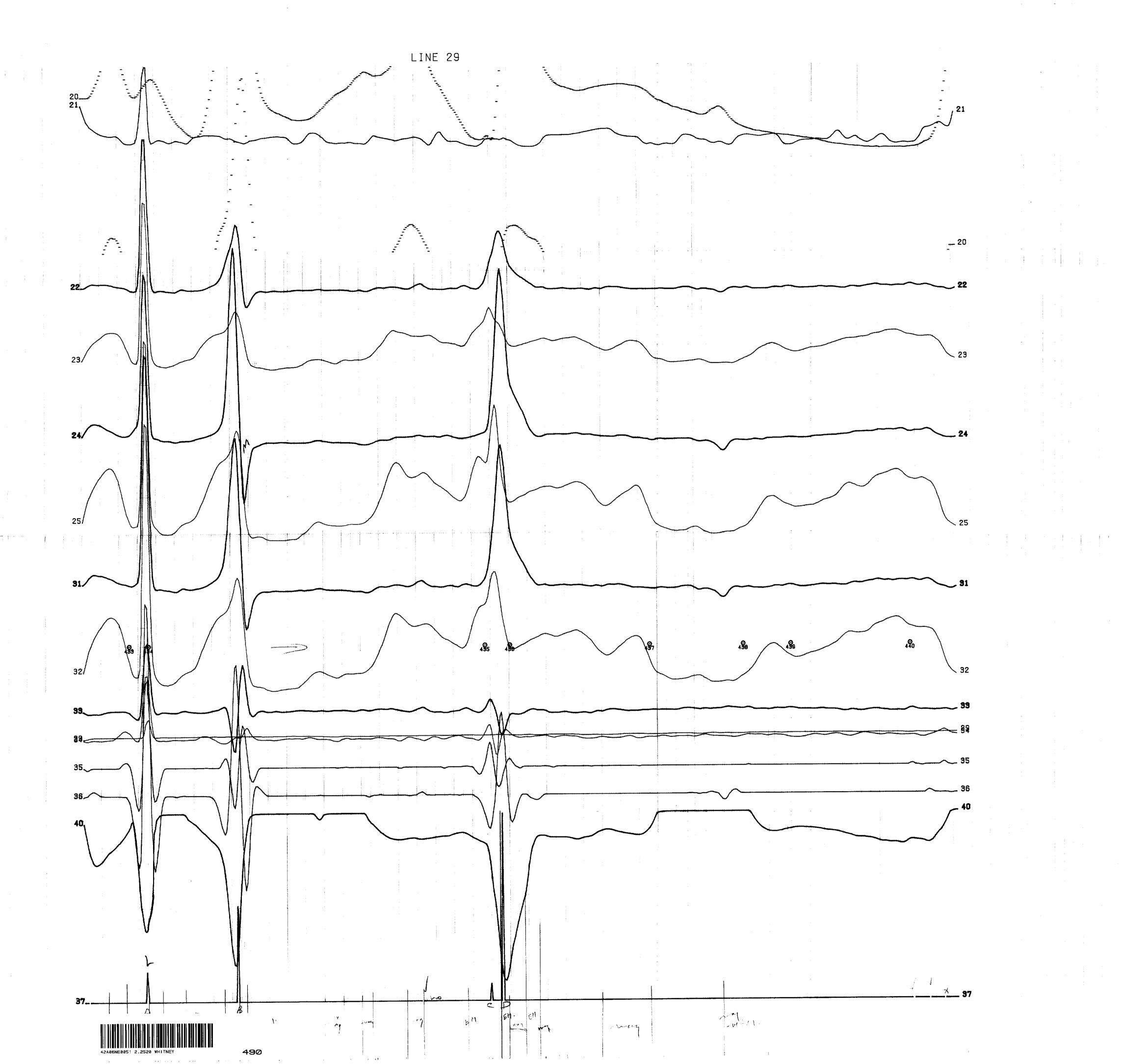


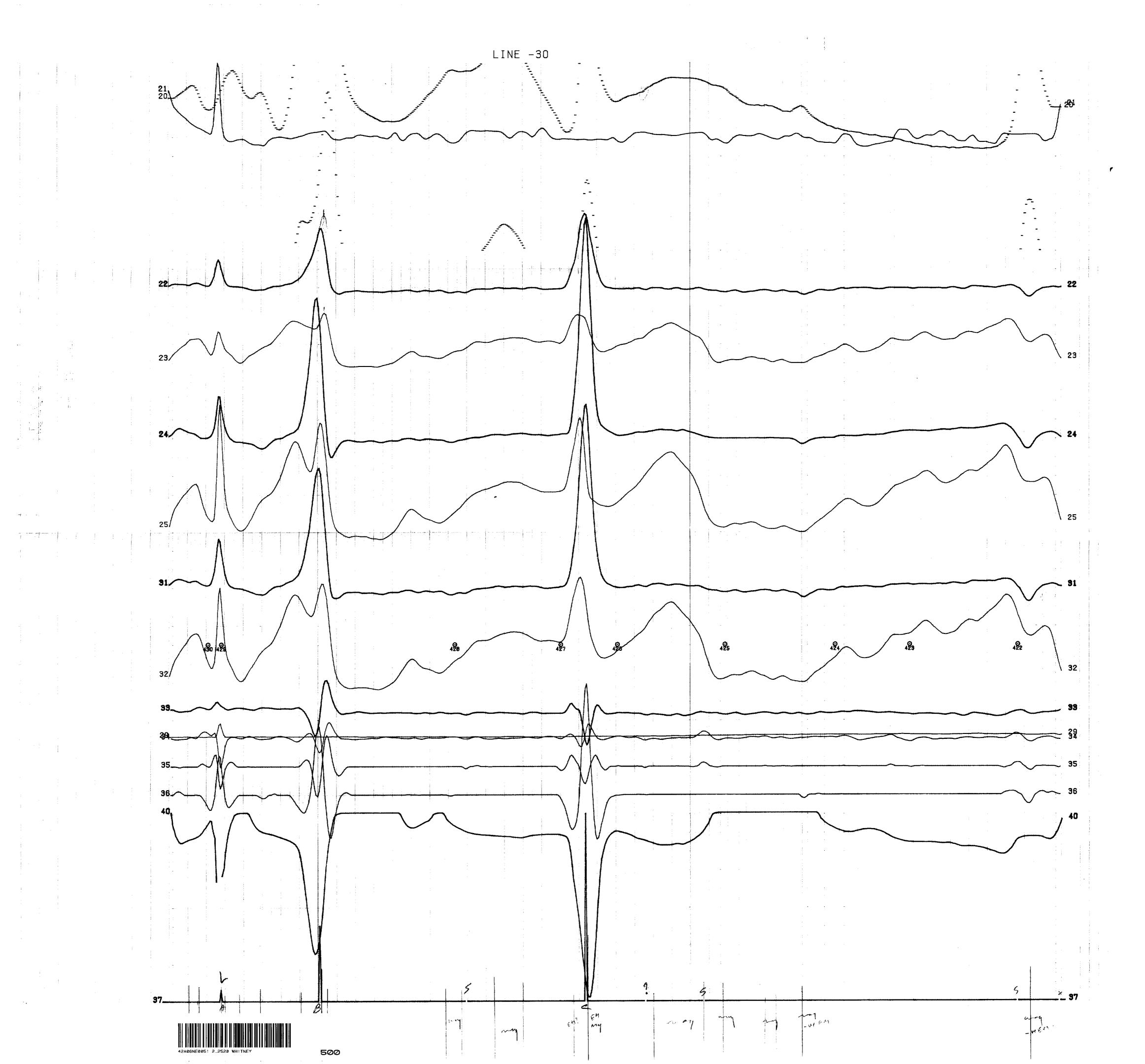


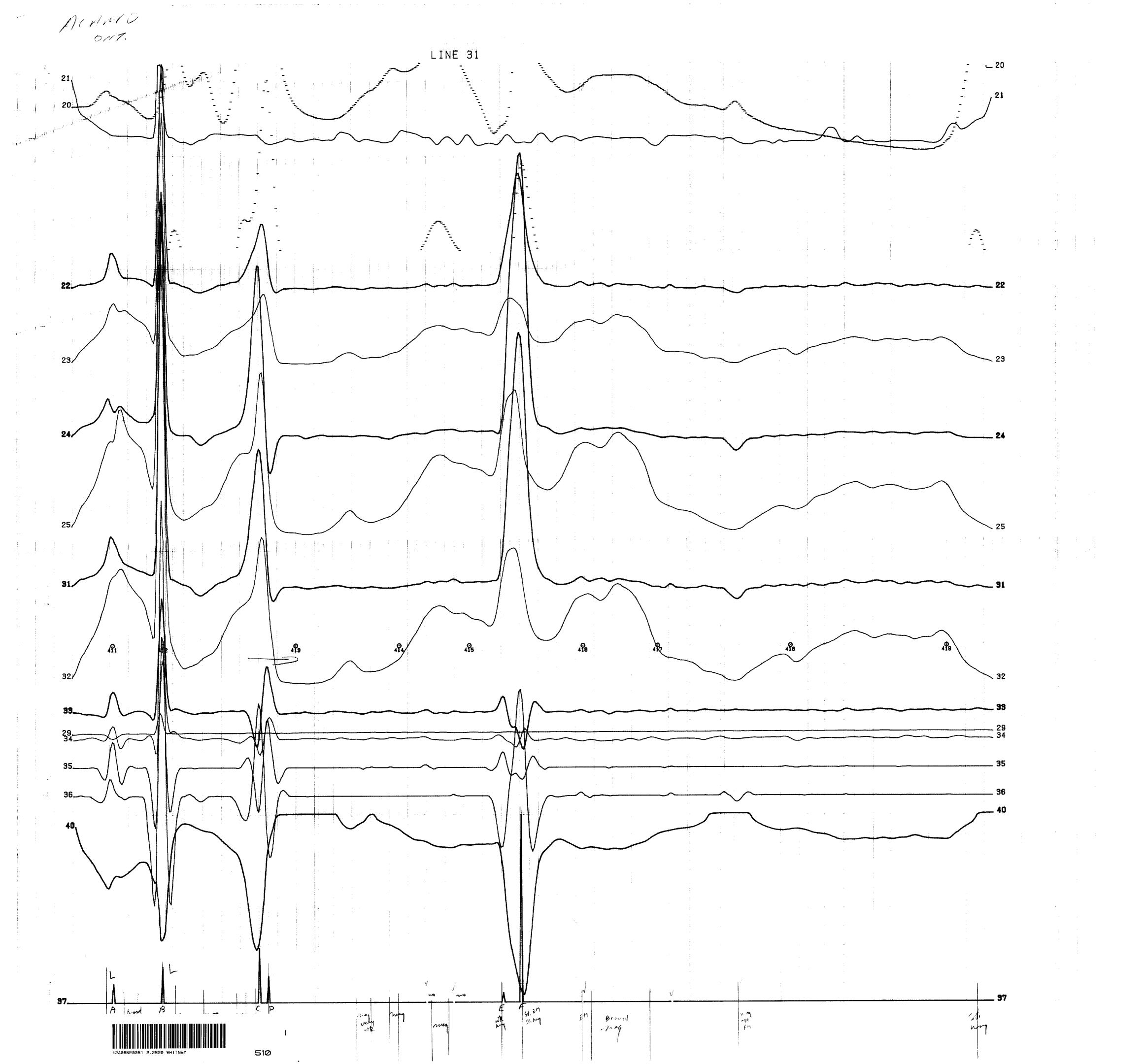


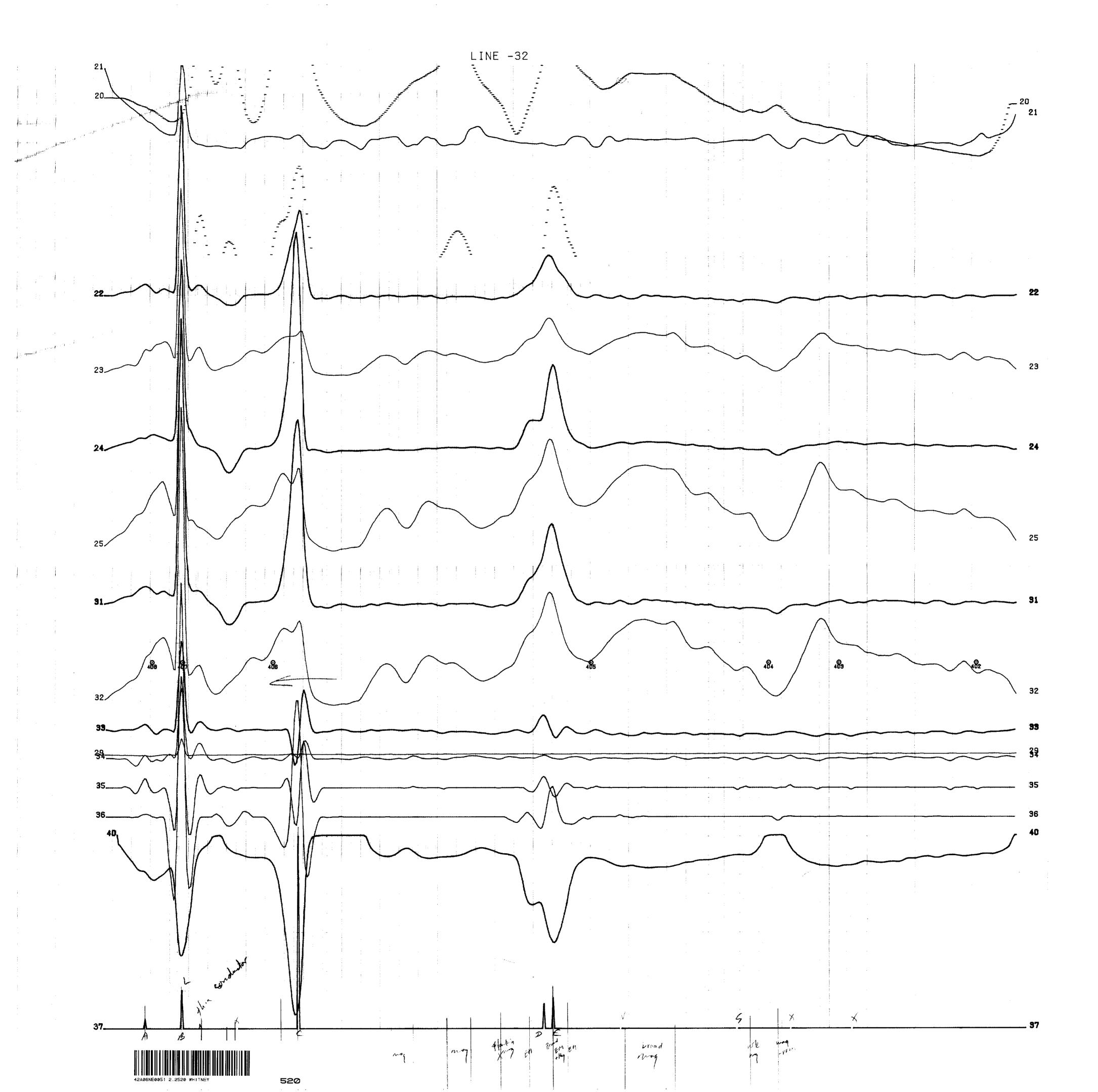


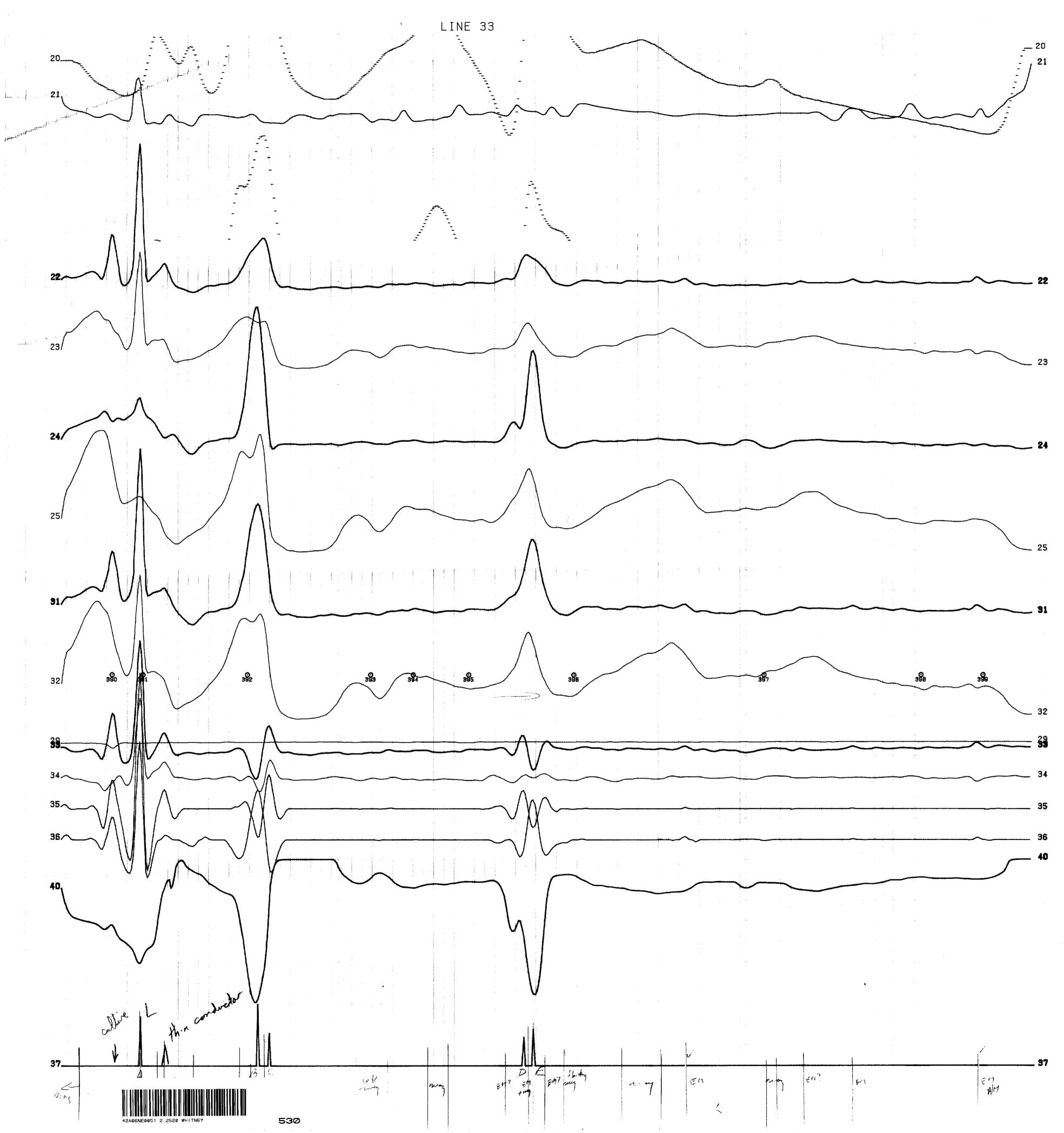






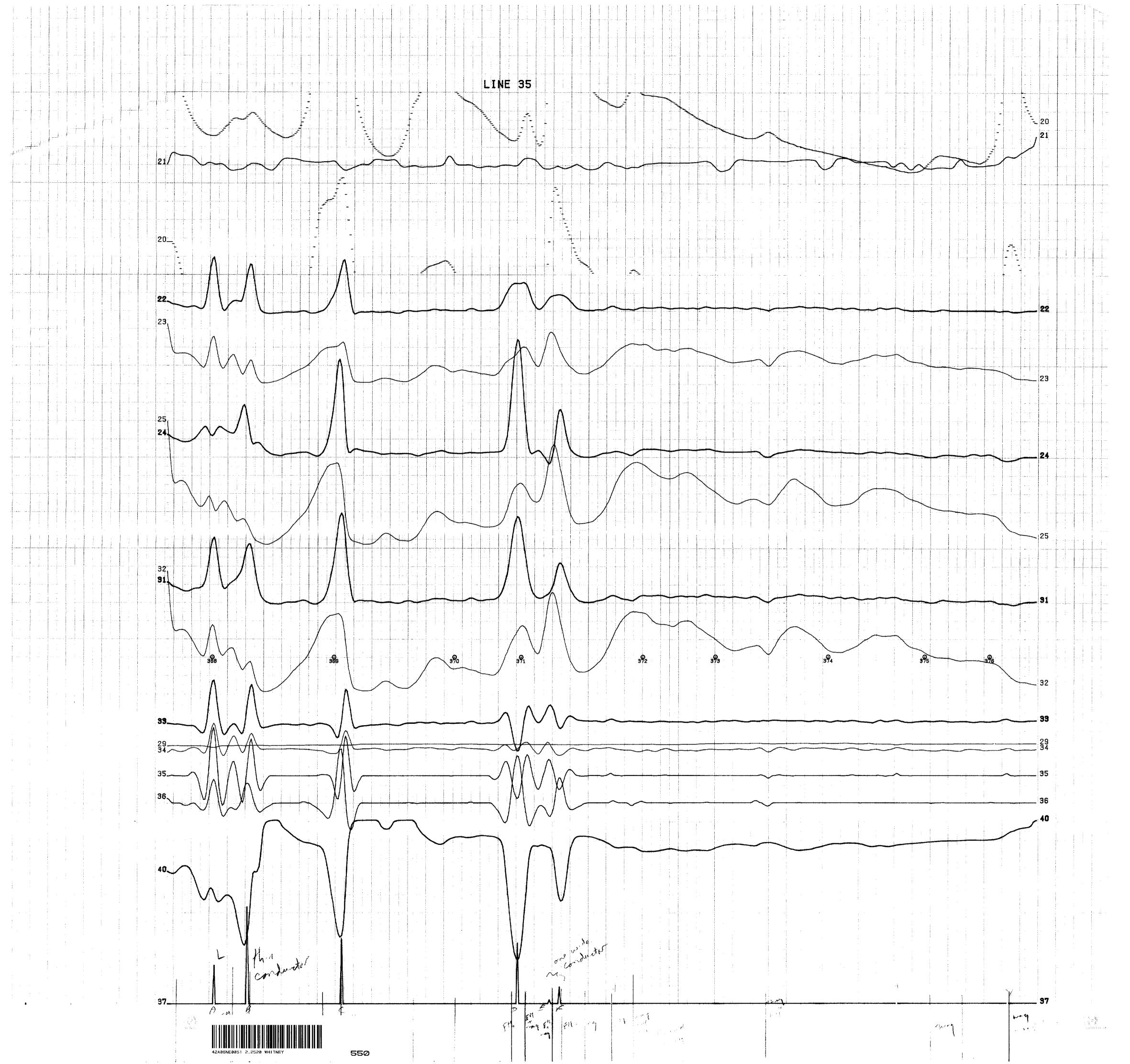


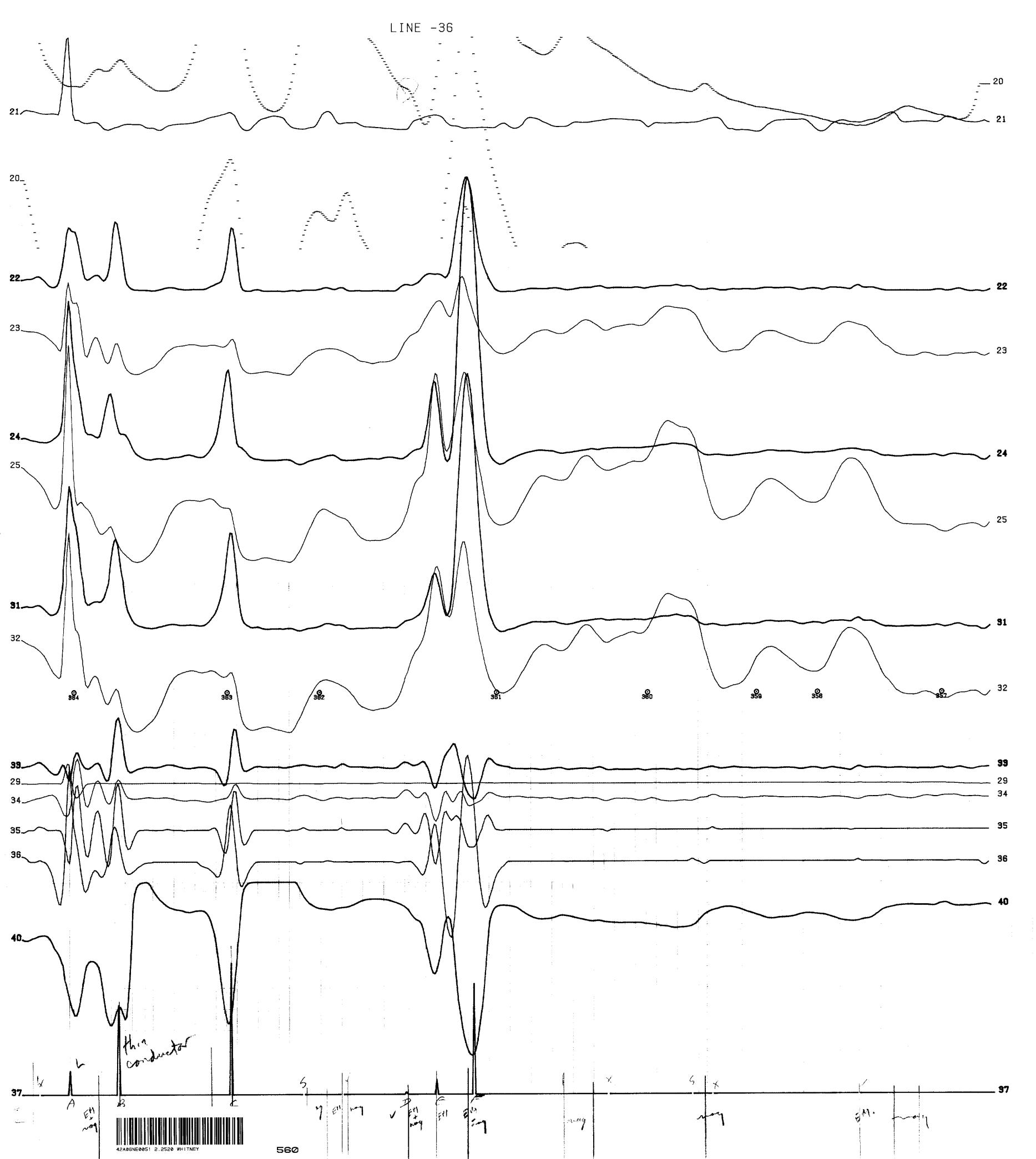




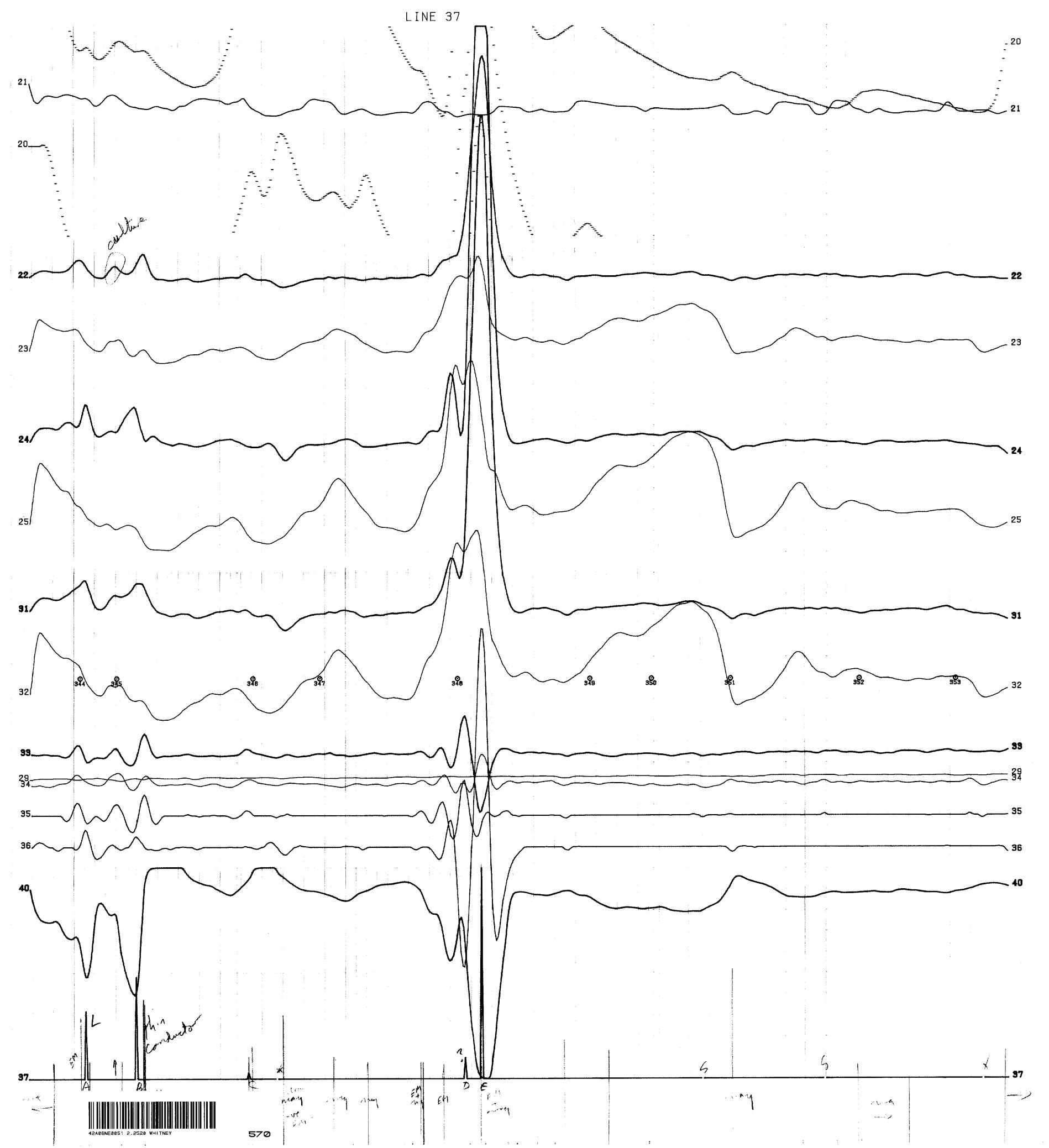


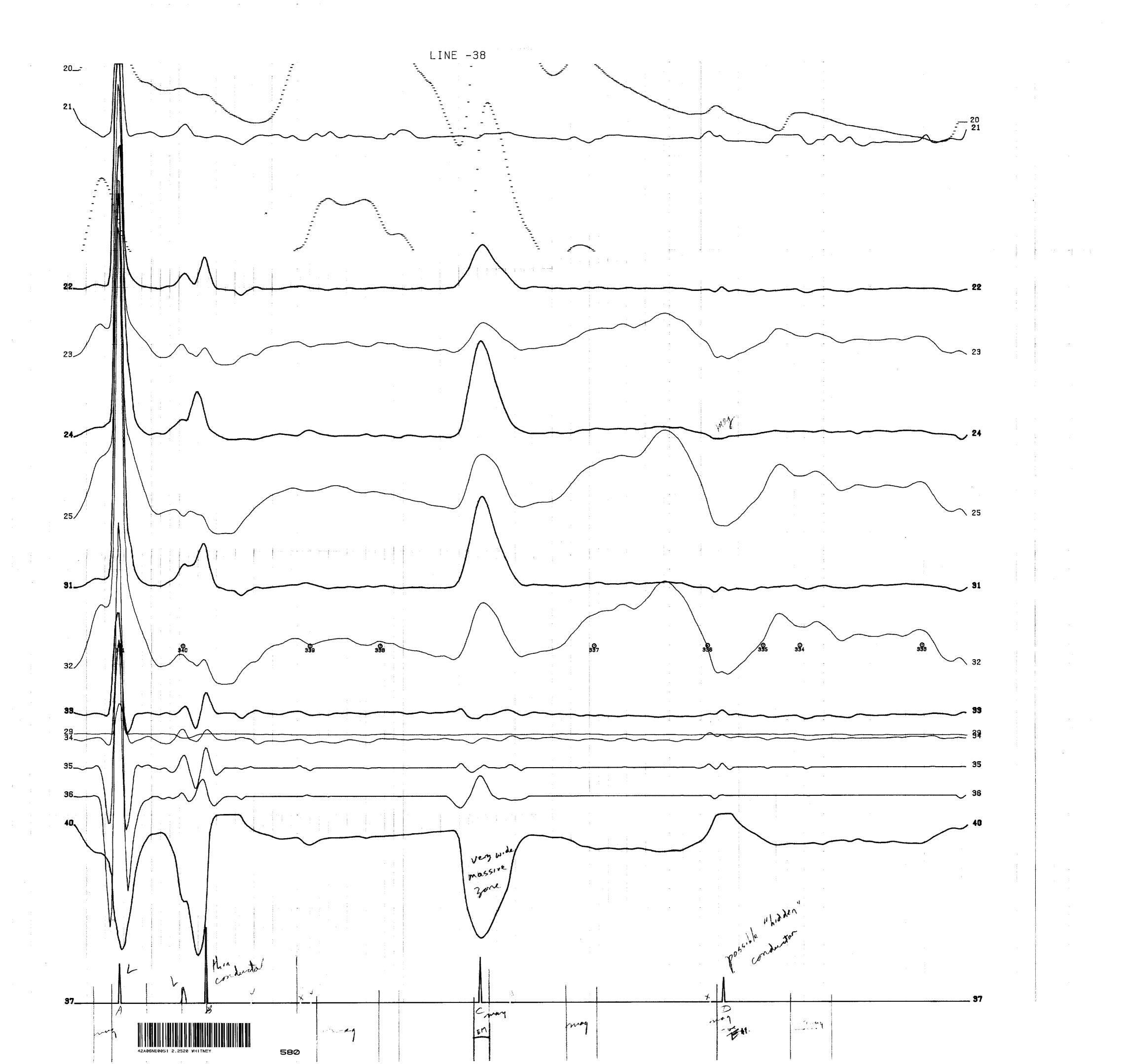
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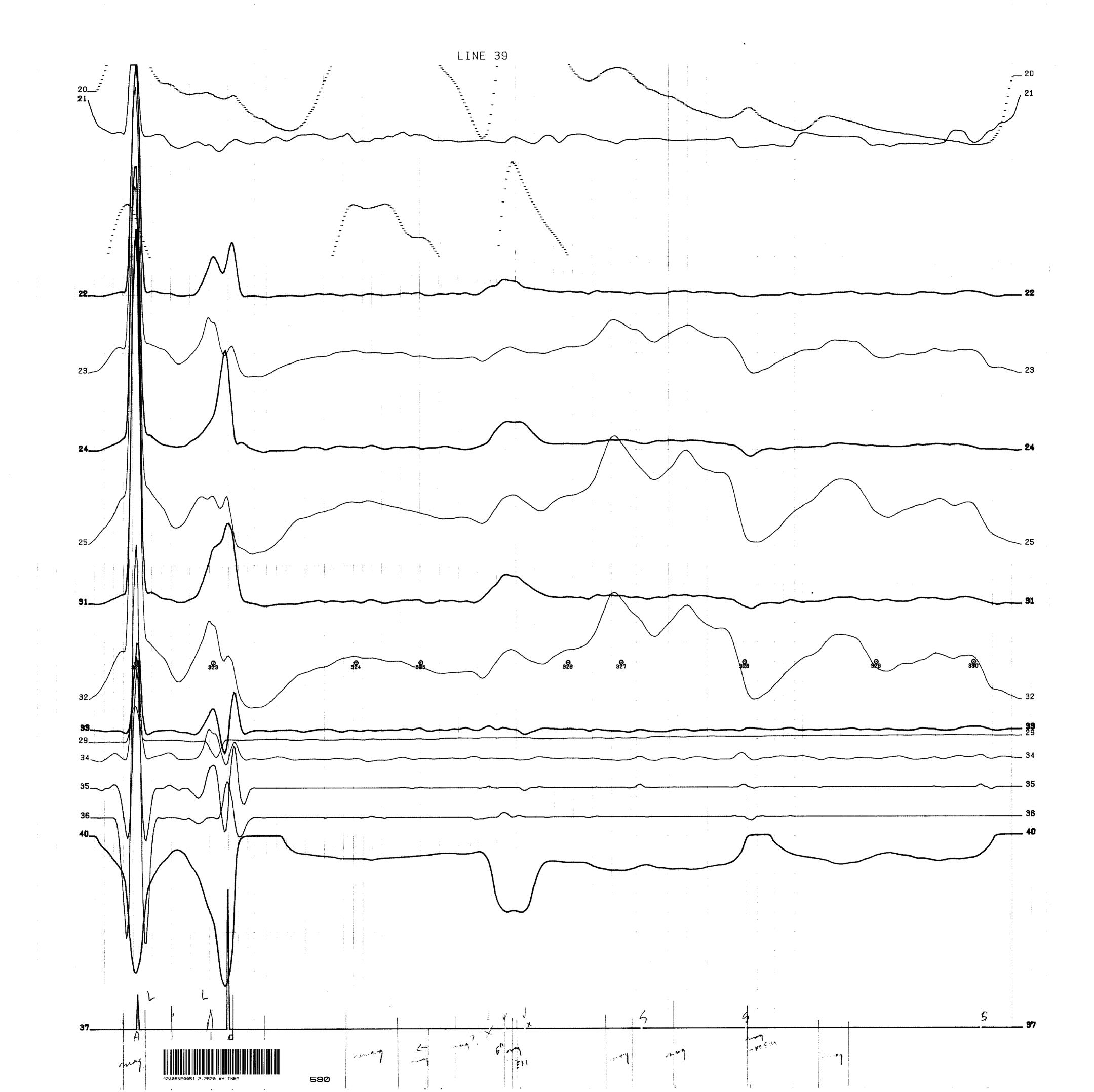




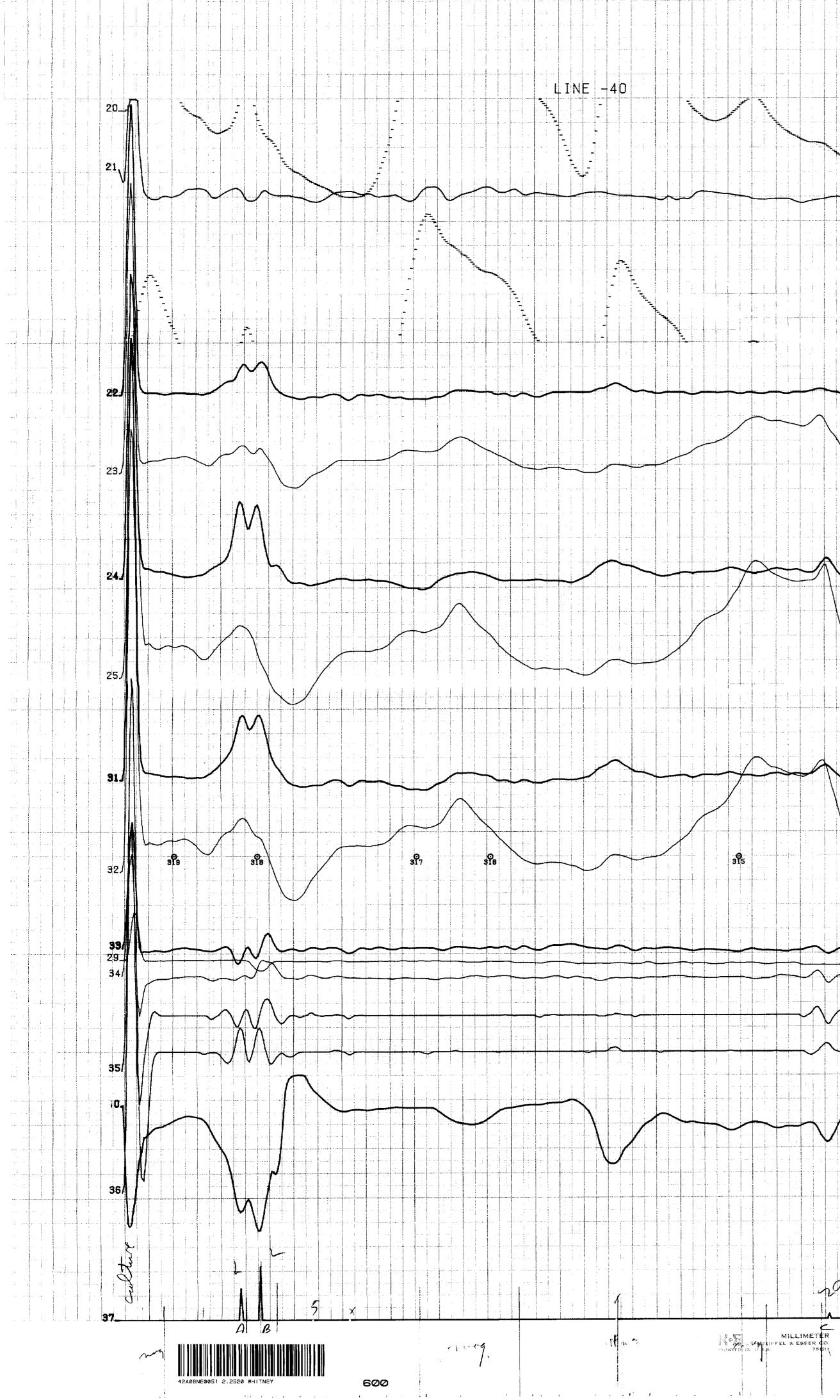






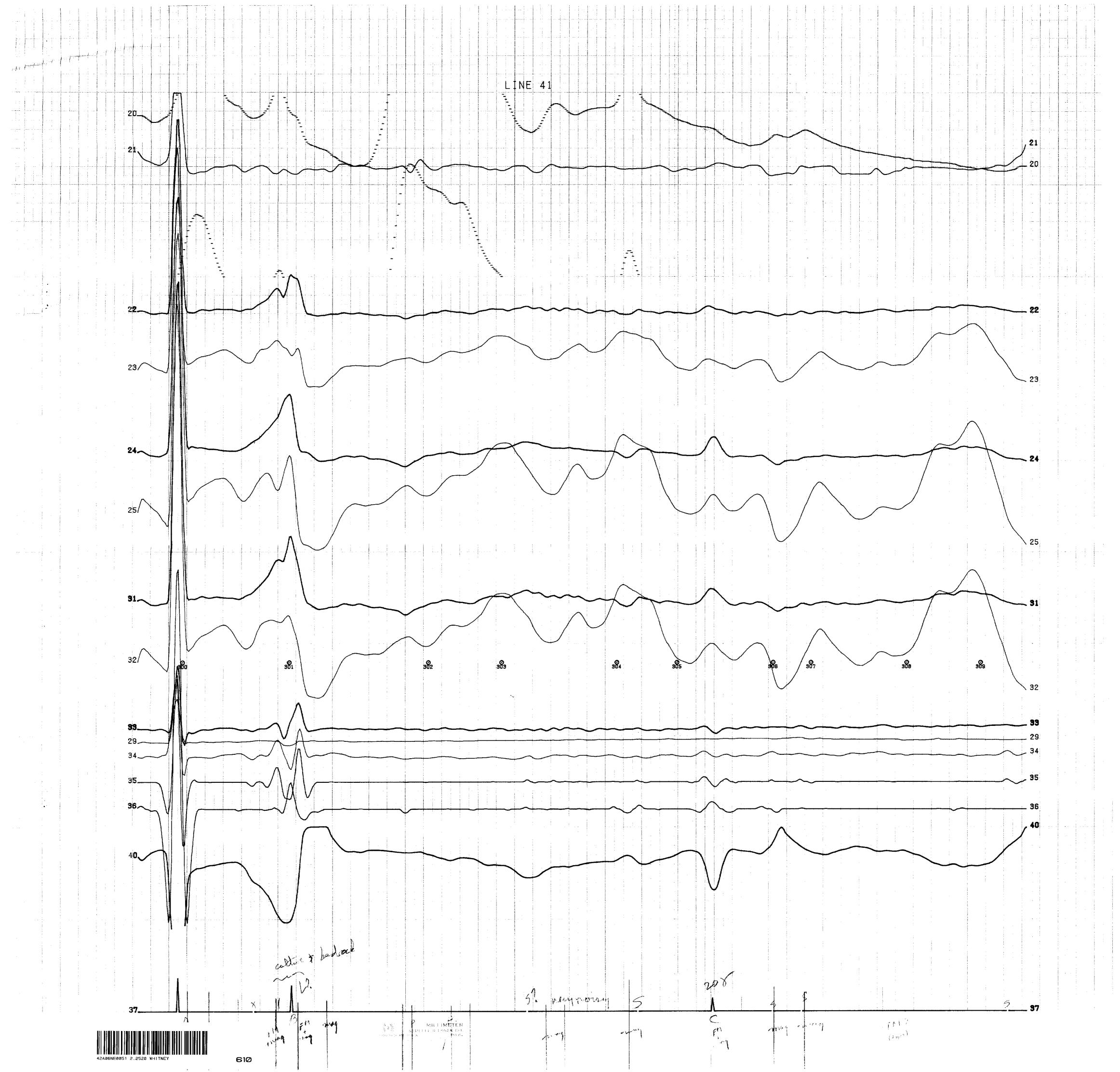


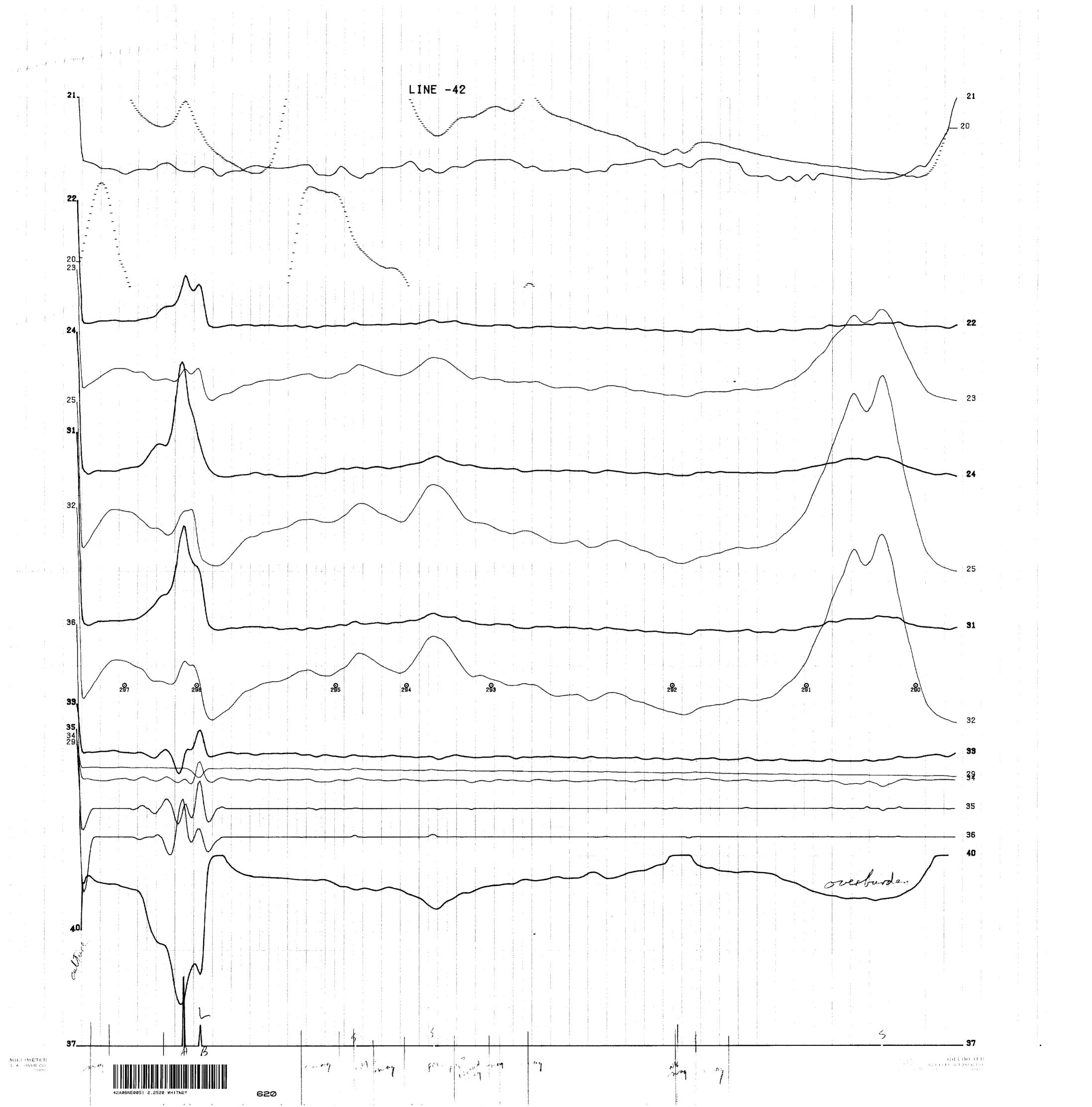
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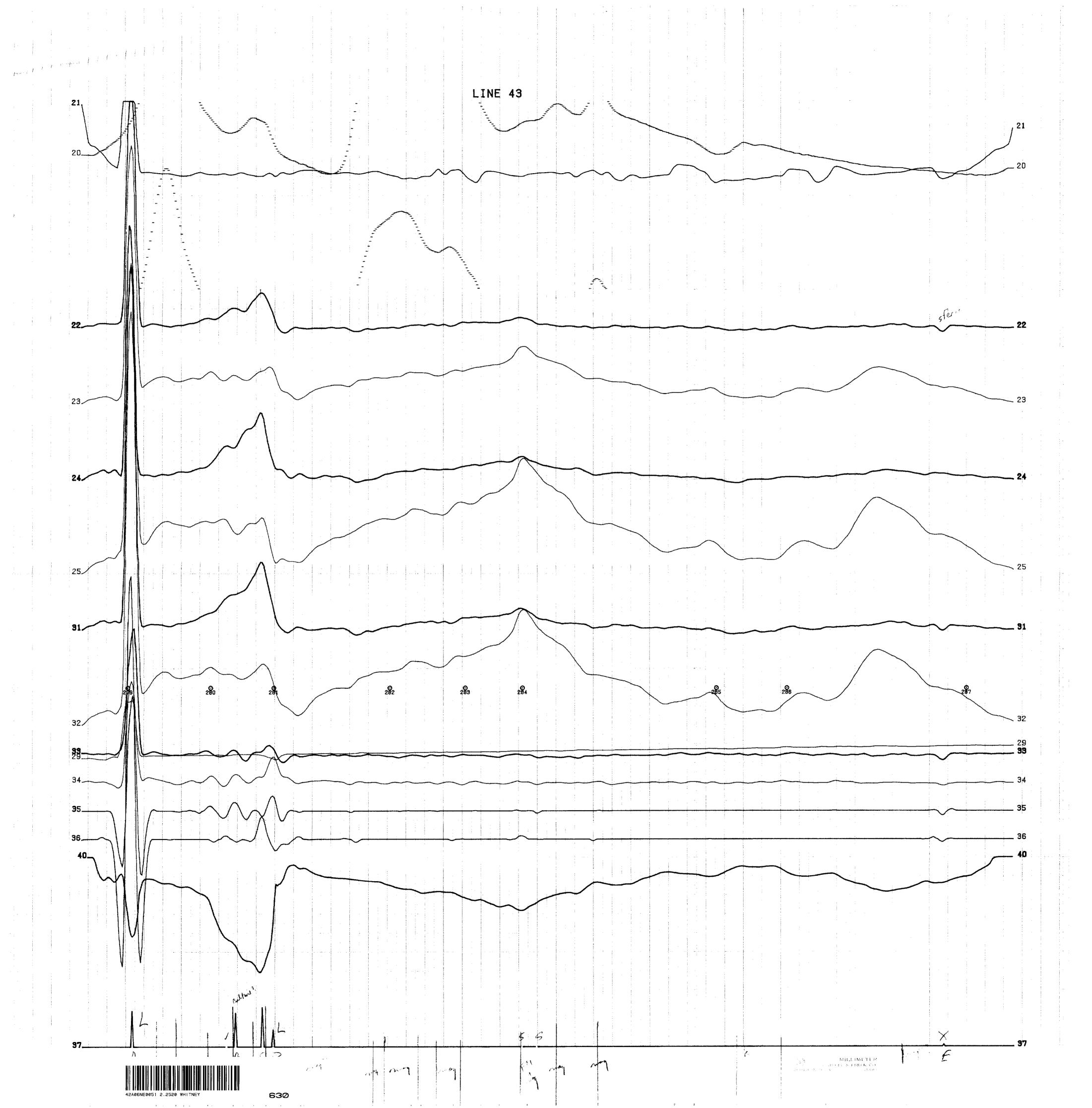


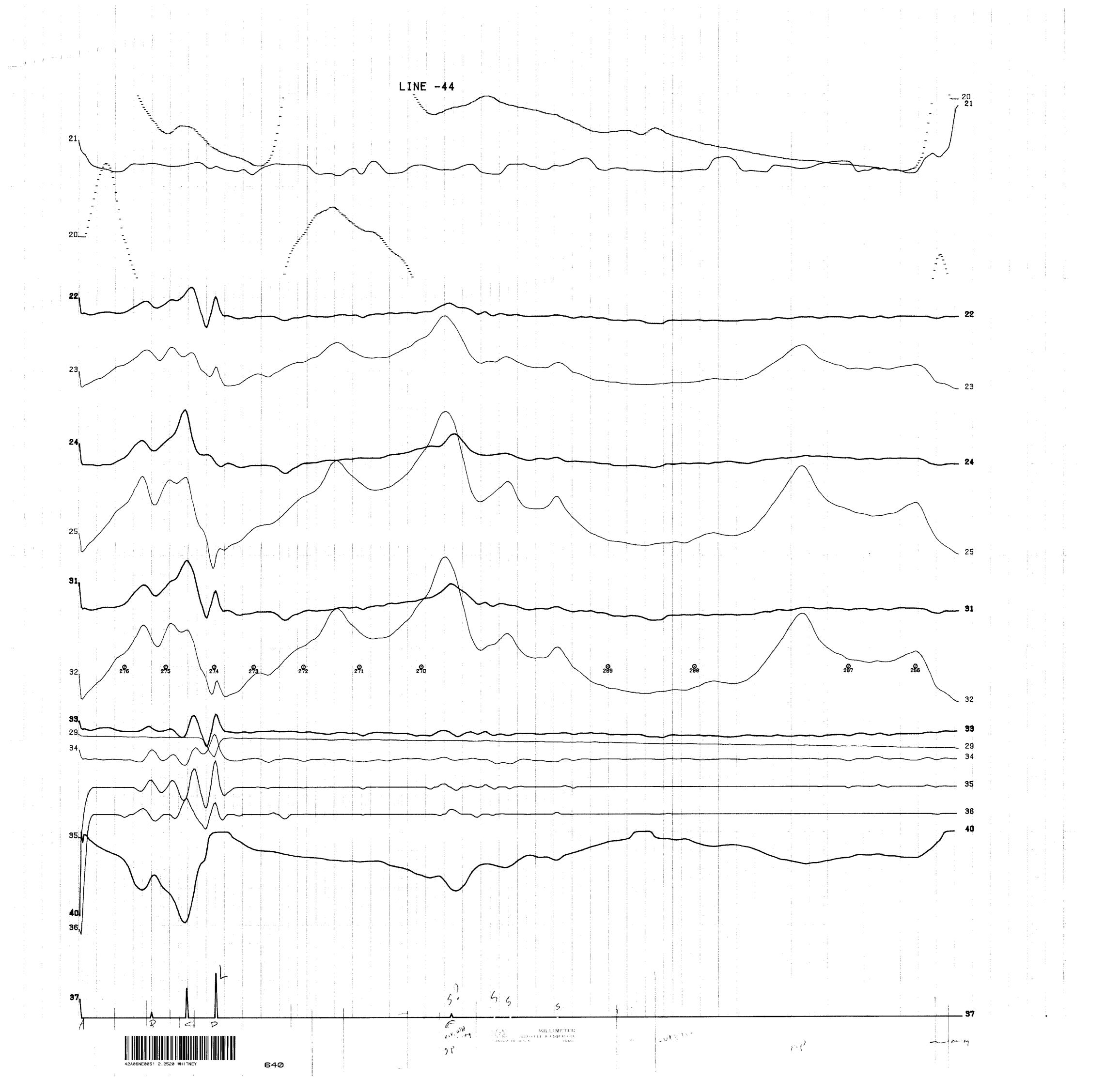
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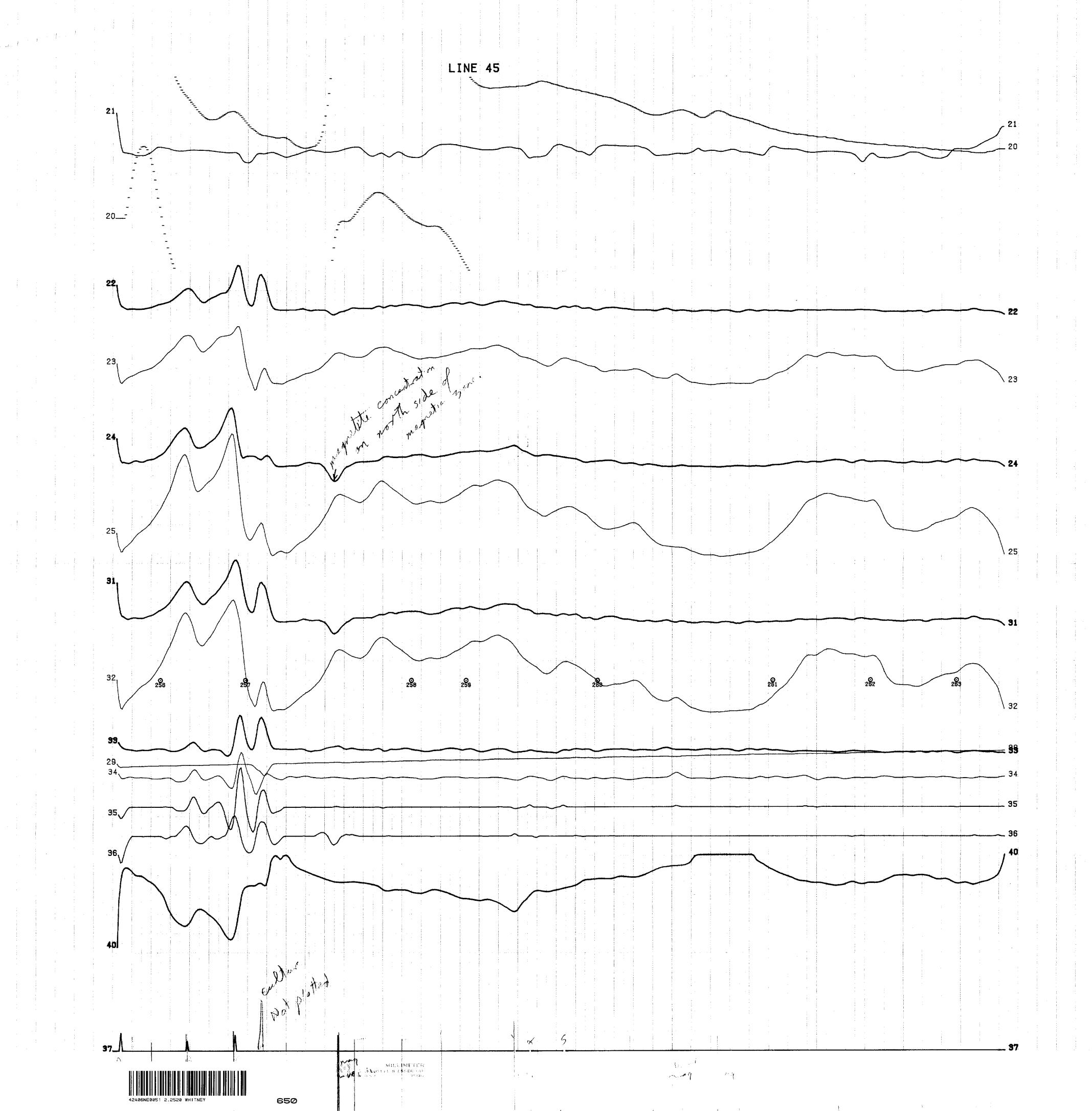
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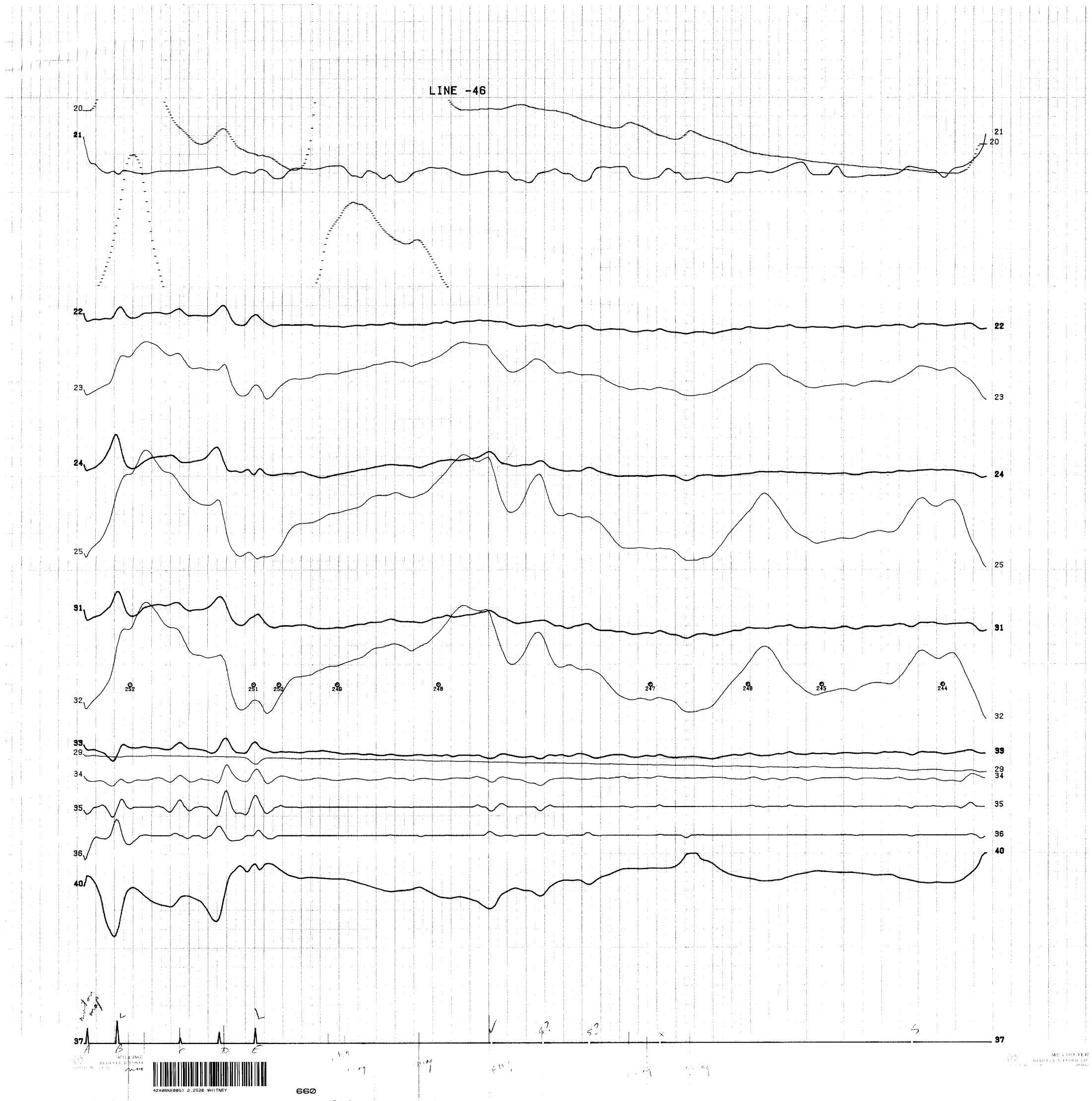


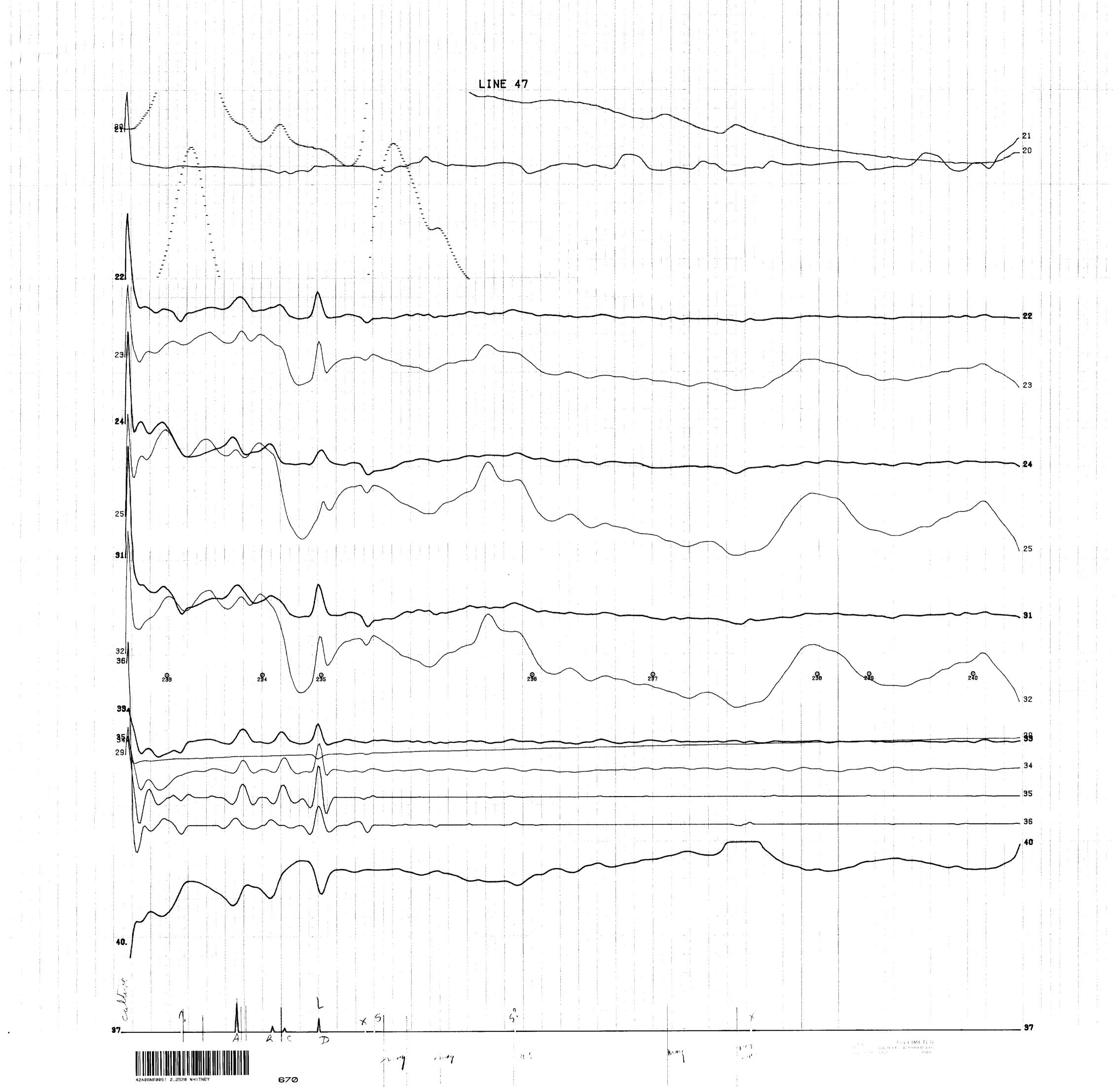


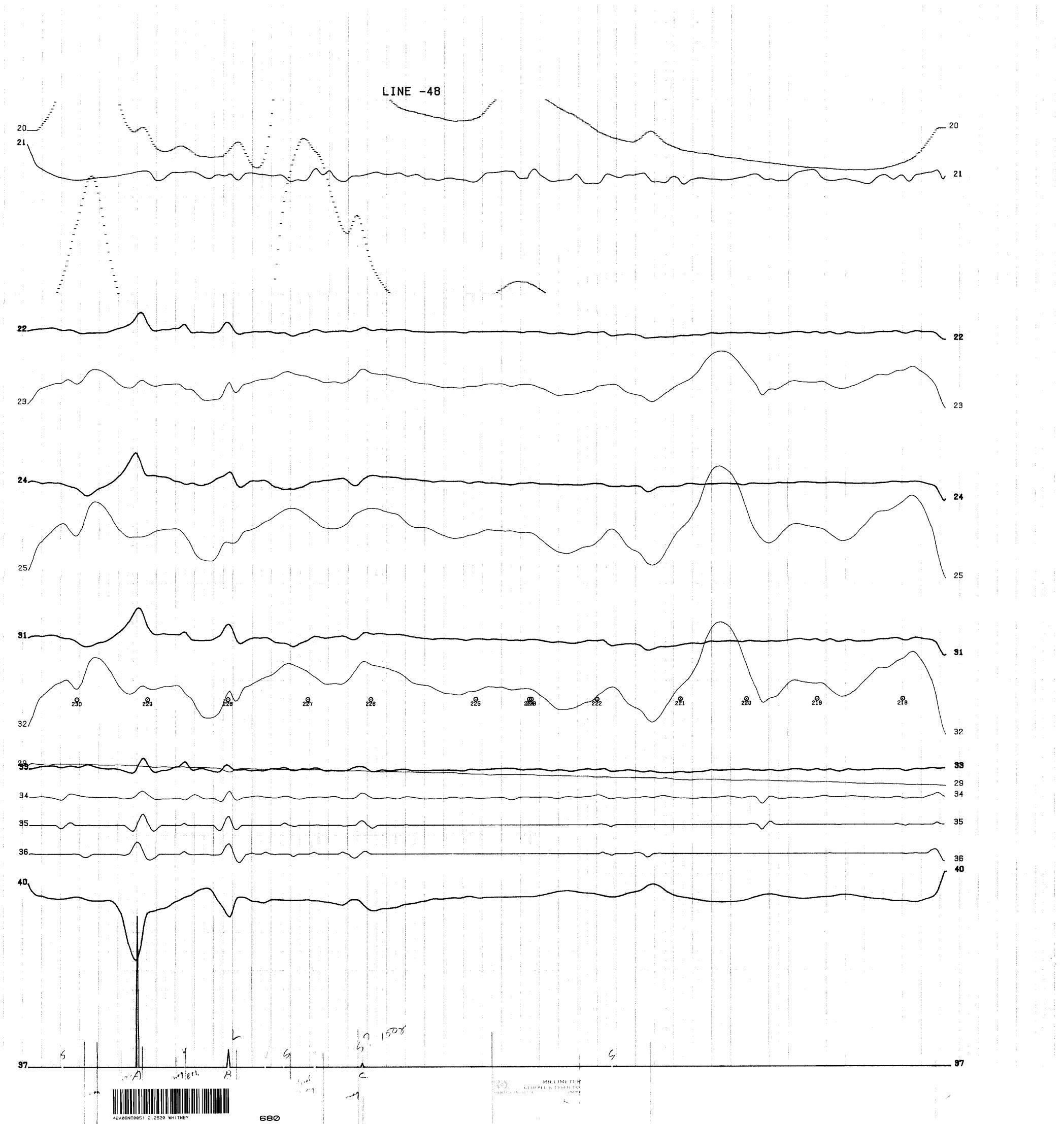


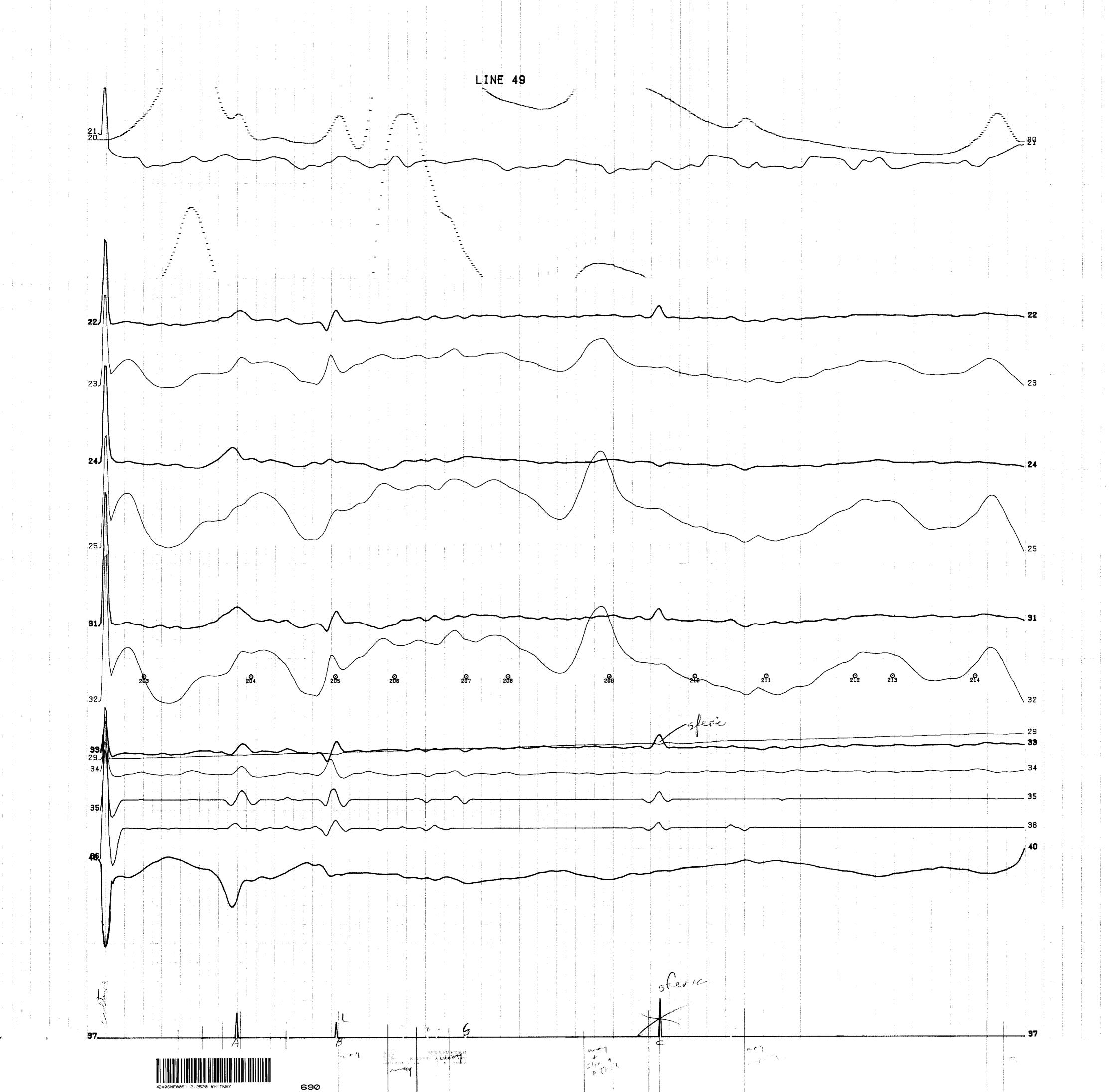




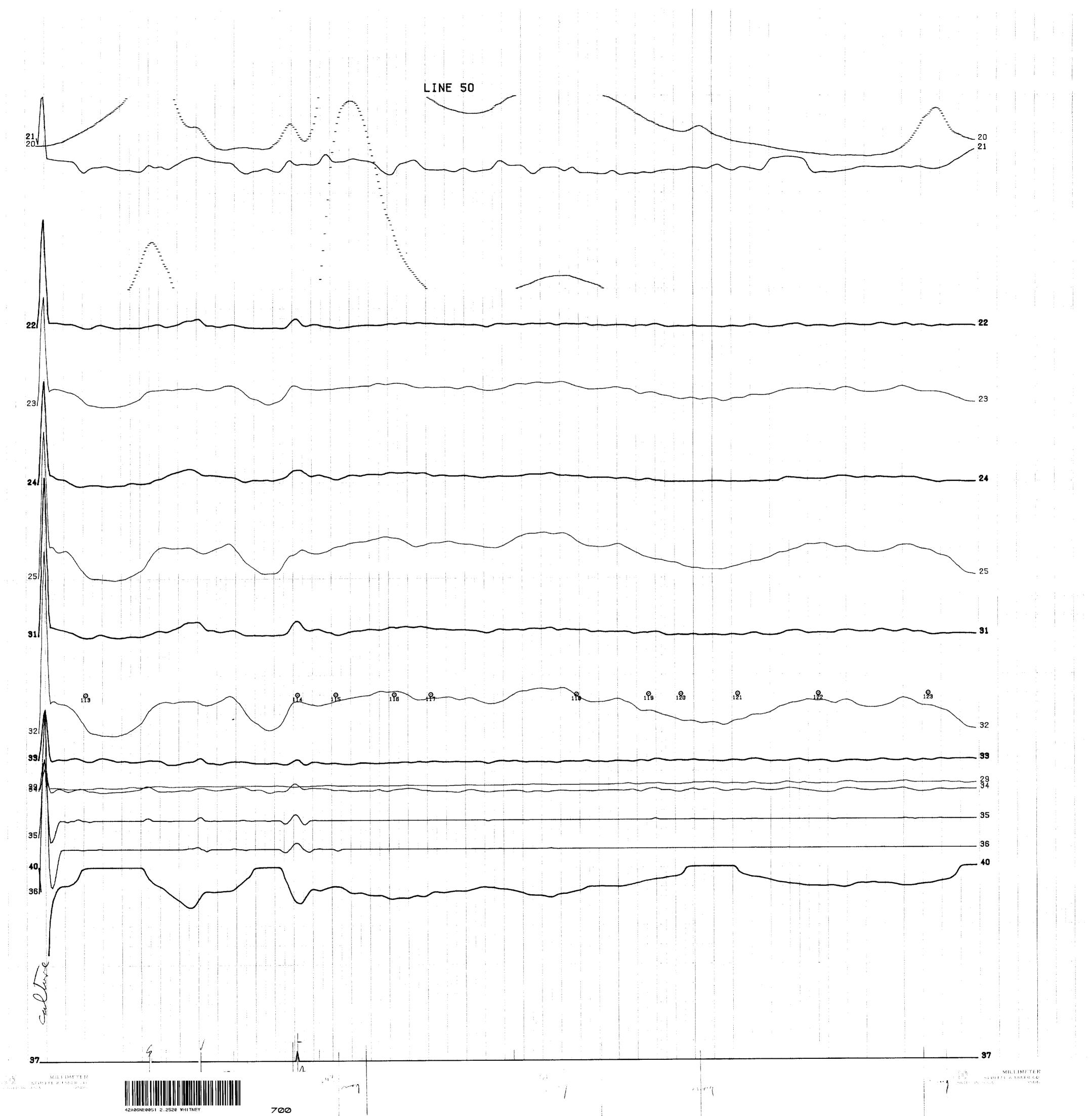


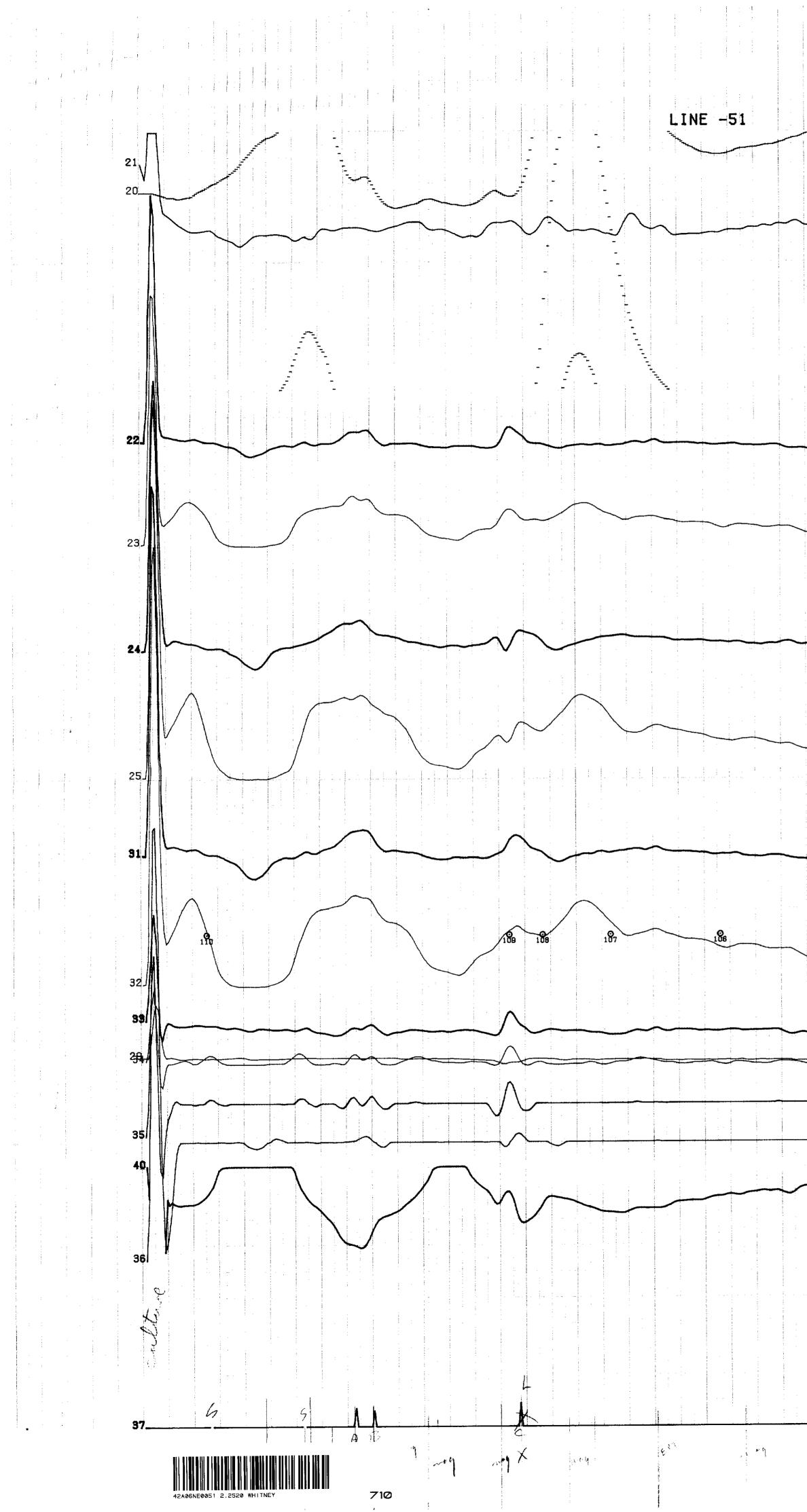




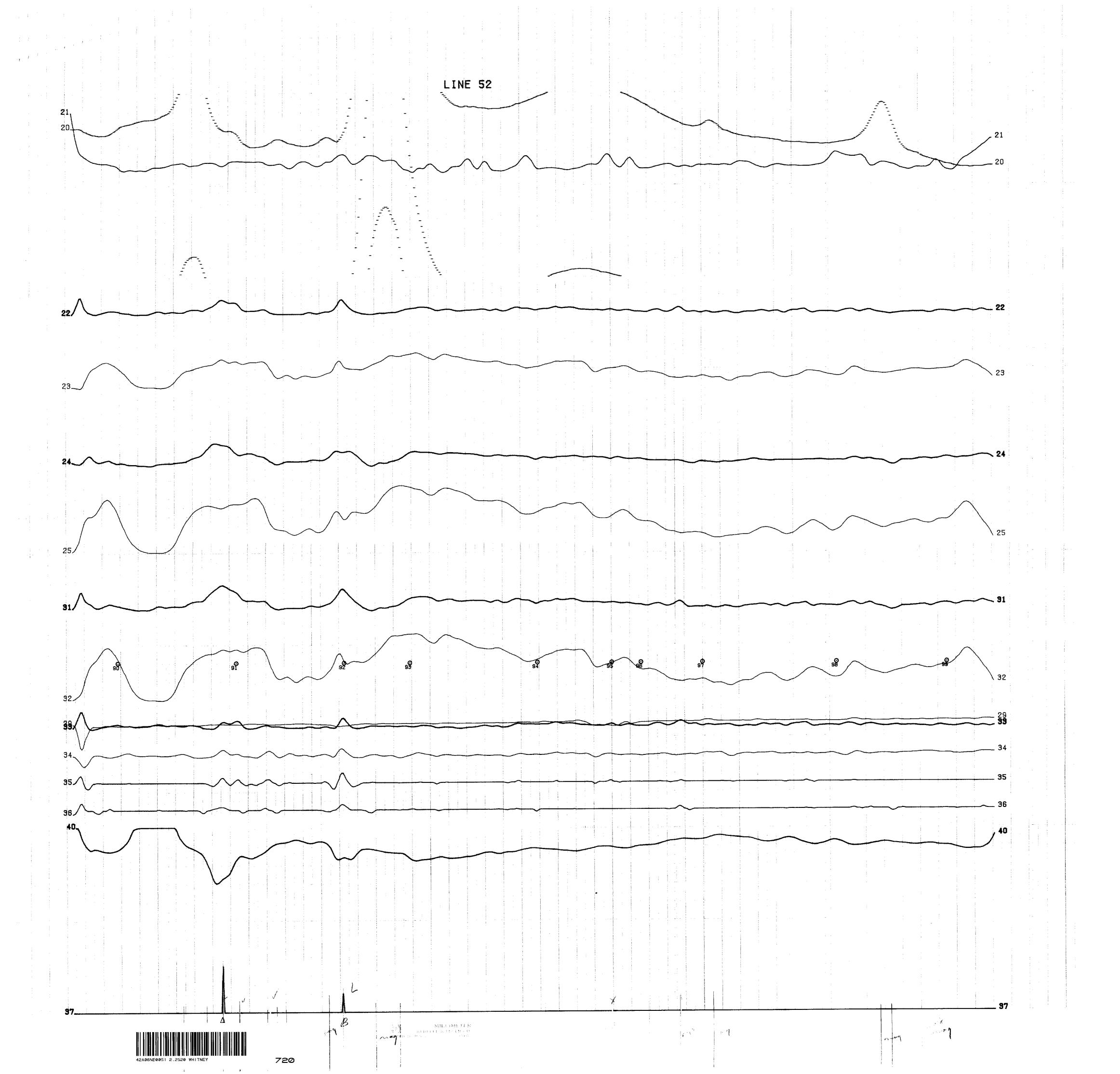


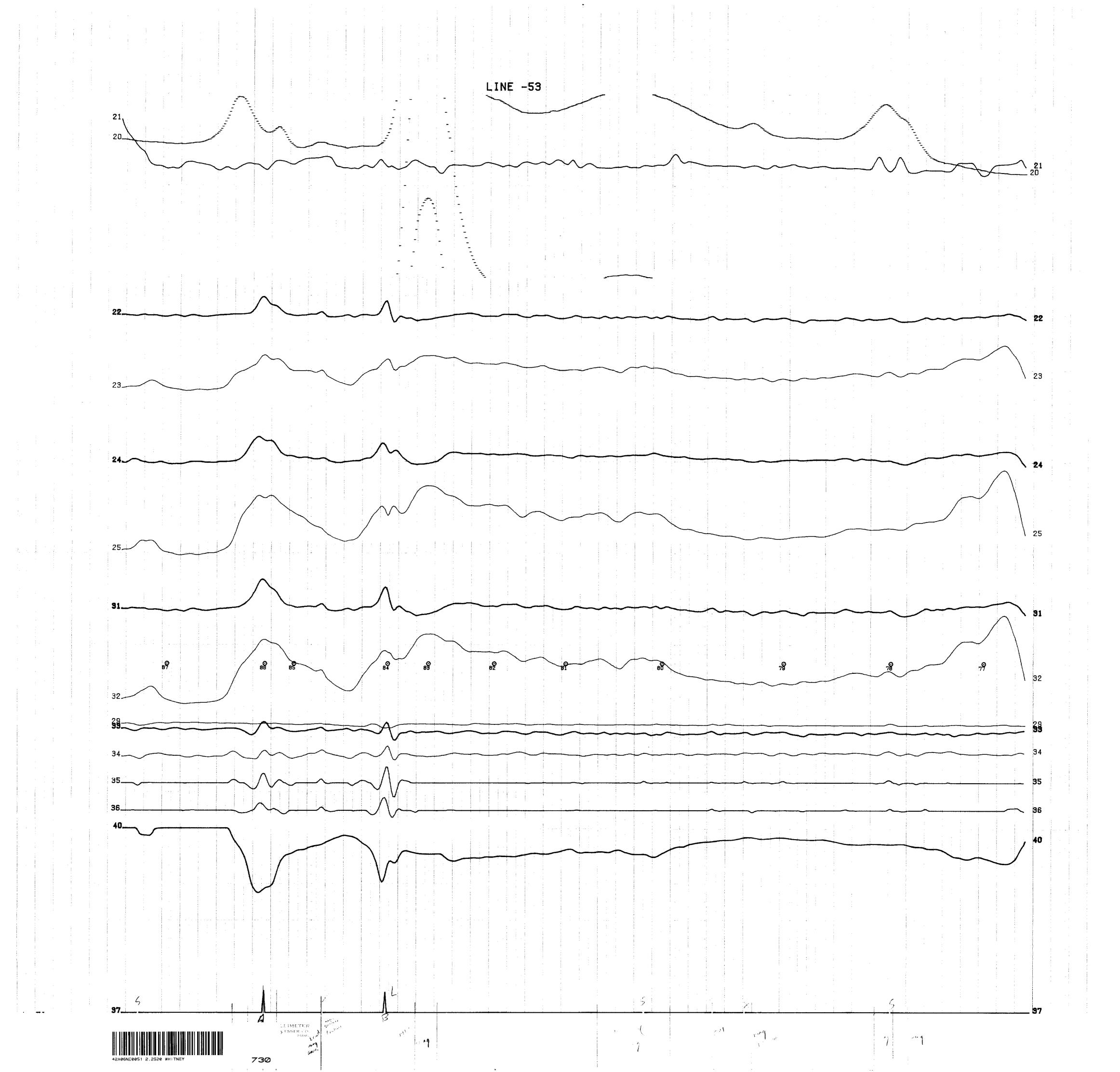
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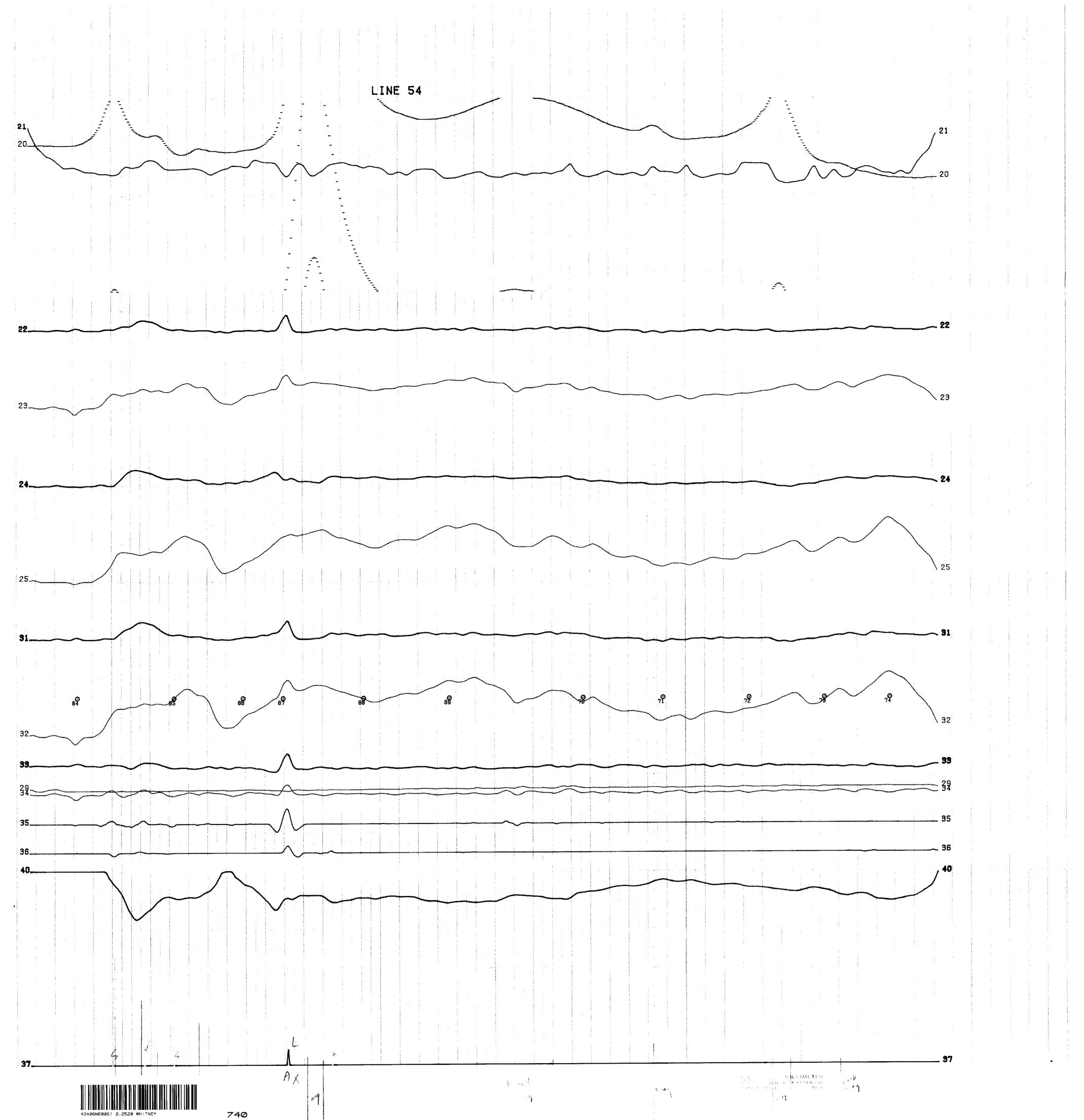


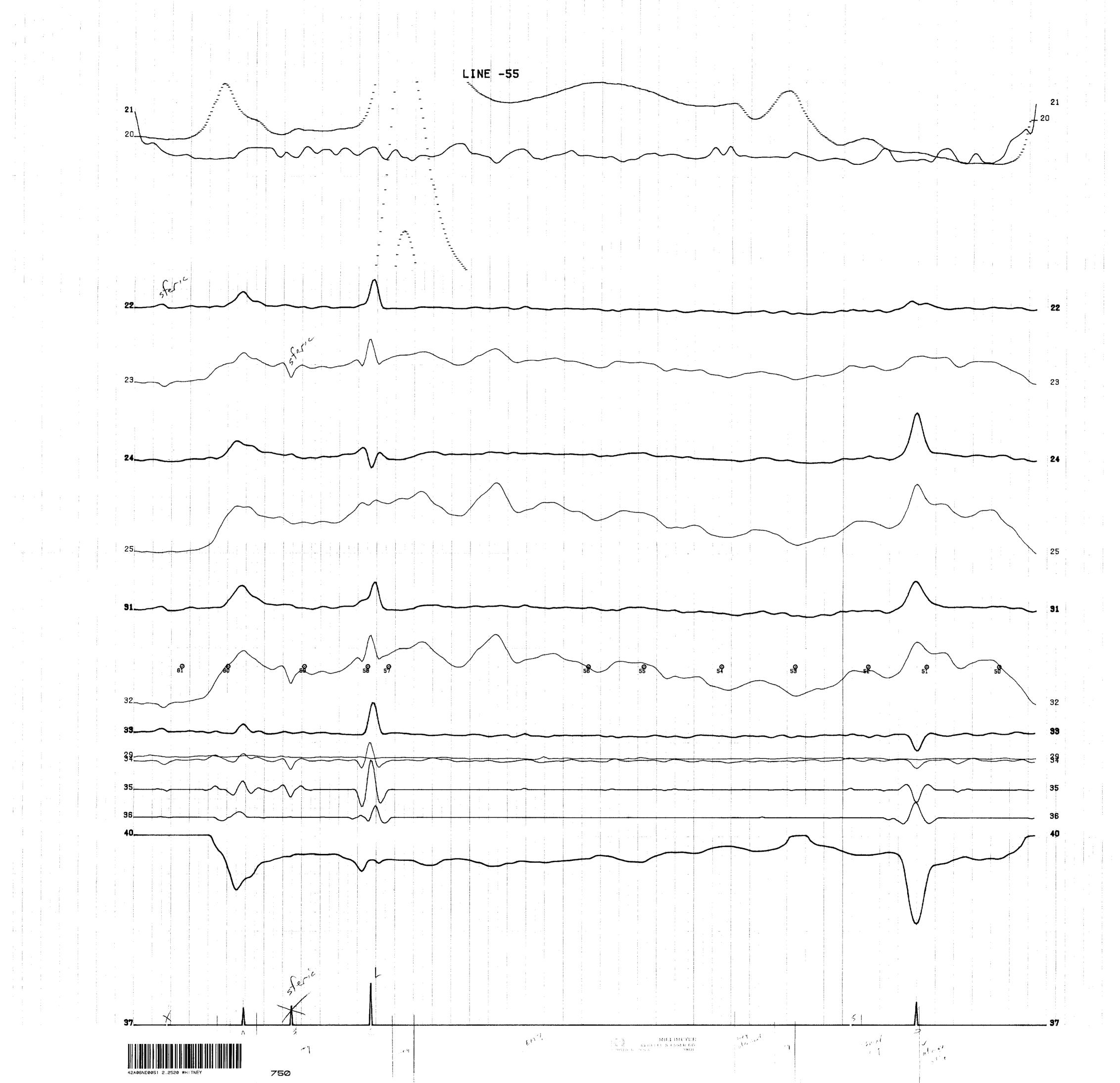


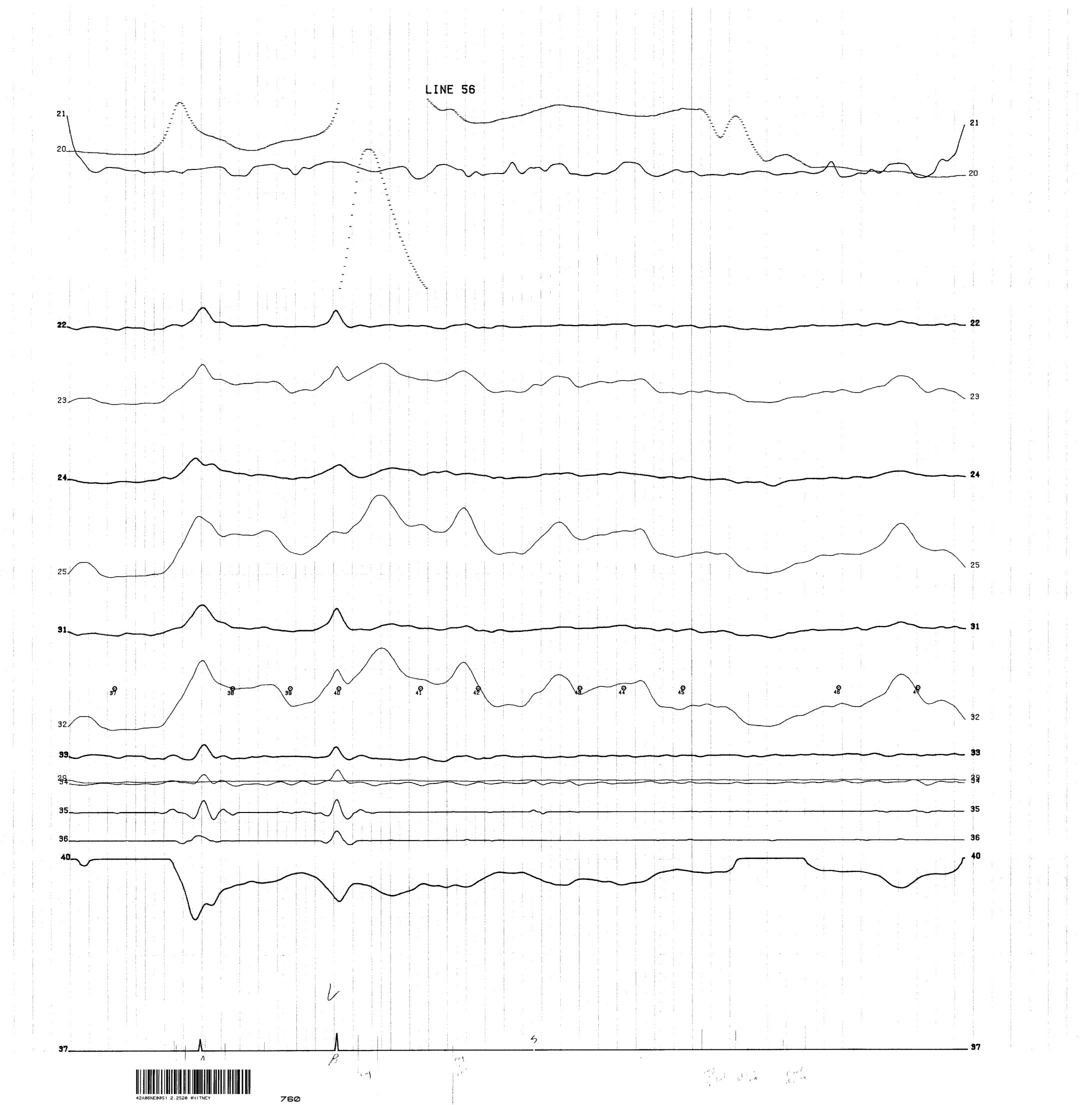
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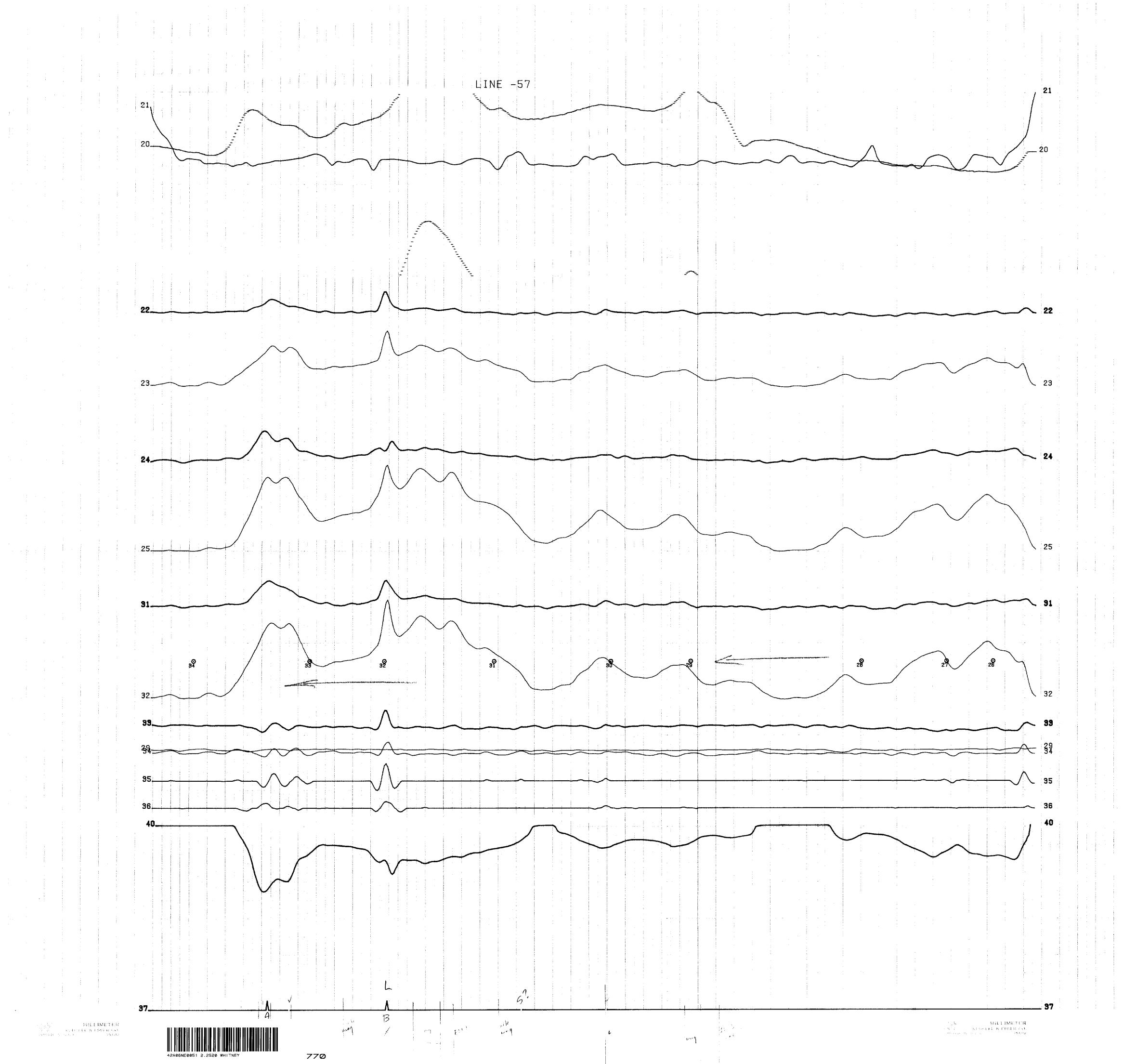












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