

**54-F-210c**

**DORCHESTER # 10**



"Franki Piles carry more tons per Pile"

# FRANKI COMPRESSED PILE COMPANY OF CANADA LIMITED

1835 YONGE STREET

TORONTO 7, ONT.

Our Reference:

PC 305

September 22nd, 1954.

CABLEGRAMS:  
"FRANK:PILE"



TELEPHONE:  
HUDSON 8-9009

SOIL INVESTIGATION REPORT  
for  
DEPARTMENT OF HIGHWAYS OF ONTARIO  
(H.M. Dillon, Consulting Engineers)  
at  
WINDHESTER #10.

As requested, we carried out a soil investigation at the proposed bridge site, Winderster #10.

REPORT OF INVESTIGATION:

Six percussion tests were made at the locations shown on the location sketch. The results are shown on the accompanying diagrams and are summarized as follows.

SUMMARY

E L E V A T I O N S -

Hole No:	Ground Surface	2,000 lbs per sq.ft.	3,000 lbs per sq.ft.	4,000 lbs per sq.ft.	Refusal
1	913	904	901	897	887
2	912	909	908	906	891
3	911	909	907	904	893
4	913	909	906	905	892
5	912	907	904	903	891
6	912	911	908	906	891

Two auger borings were made with the following results.

LOG OF AUGER BORINGS

Hole #1.

Ground Surface Elevation: 913

0' - 1'	Clayey topsoil
1' - 6'	Reddish grey silty clay
6' - 11'	Silty clay
11' - 16'	Silty clay

16' - 21'	Silty clay with small stones
21' - 25'	Silty clay with small stones
25' /	Silty clay with small stones

#### Hole #6.

Ground Surface Elevation: 912

0' - 6'	Reddish grey silty clay
6' - 11'	Silty clay
11' - 16'	Silty clay
16' - 21'	Silty clay
21' - 25'	Silty clay
25' /	Silty clay with small stones

#### DISCUSSION:

The percussion test at hole #1 shows considerably less bearing value than the other holes, at the same elevations. The silty clay in hole #1 is slightly softer and more moist than in hole #6.

#### CONCLUSION:

Footings could be designed for given bearing capacities at the elevations shown in the Percussion Test Summary.

Because of the apparently softer consistency of the silty clay at the West end of the proposed North abutment, there exists the possibility of eventual differential settlement.

*W. H. T. Wilson*

W. H. T. Wilson, P. Eng.

# FRANKI PILES

MONTREAL

## PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: DORCHESTER #10.

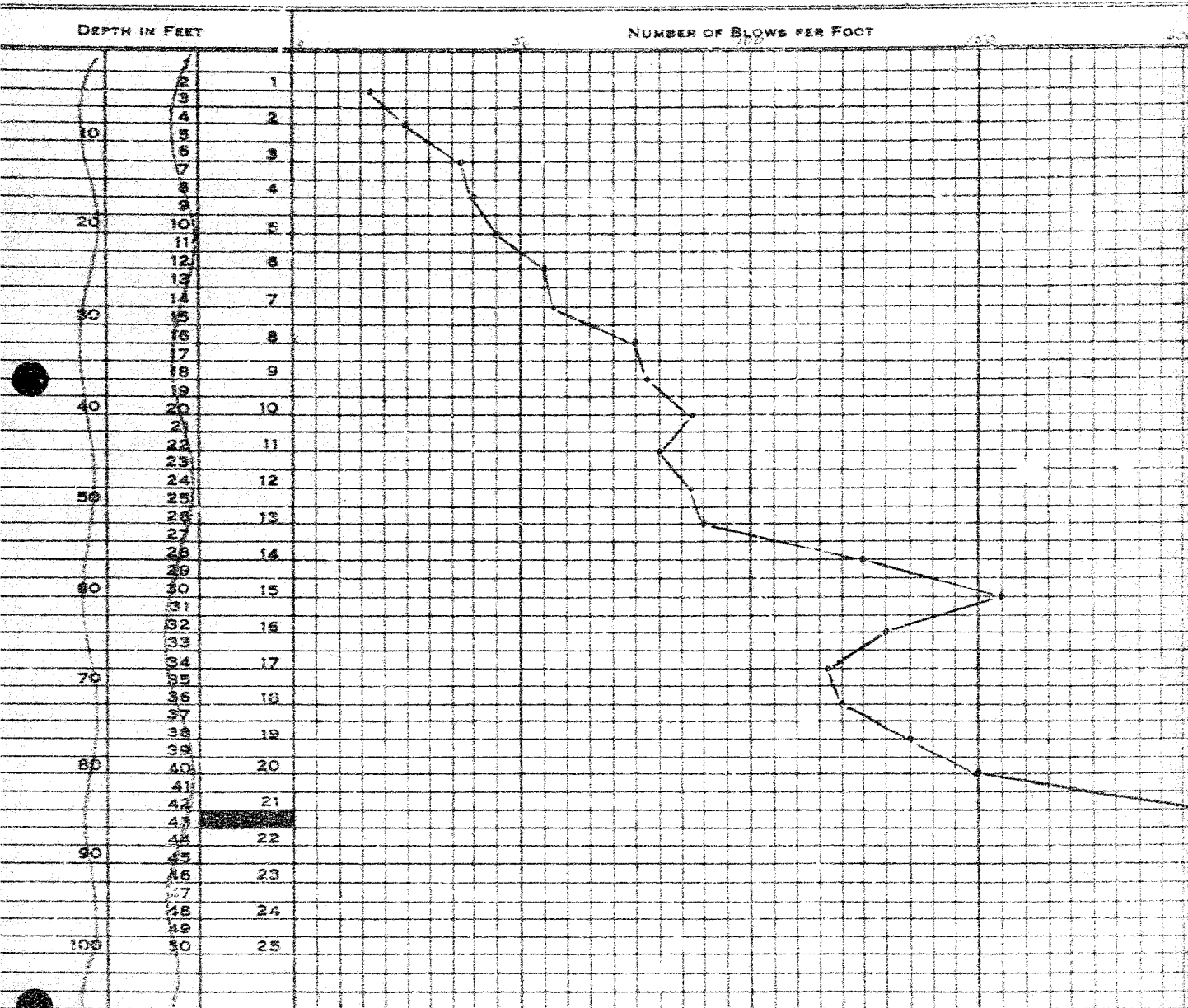
JOB NO. RD 305

DATE SEPTEMBER 17, 1954.

TEST NO.: 2

WEIGHT OF HAMMER 225#

DROP: 3 Ft.



Ground Surface Elevation 912

Refusal Elevation 891

Number of Blows 200 for 10"

Signed .....

# FRANKI PILES

MONTREAL

## PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: DORCHESTER #10

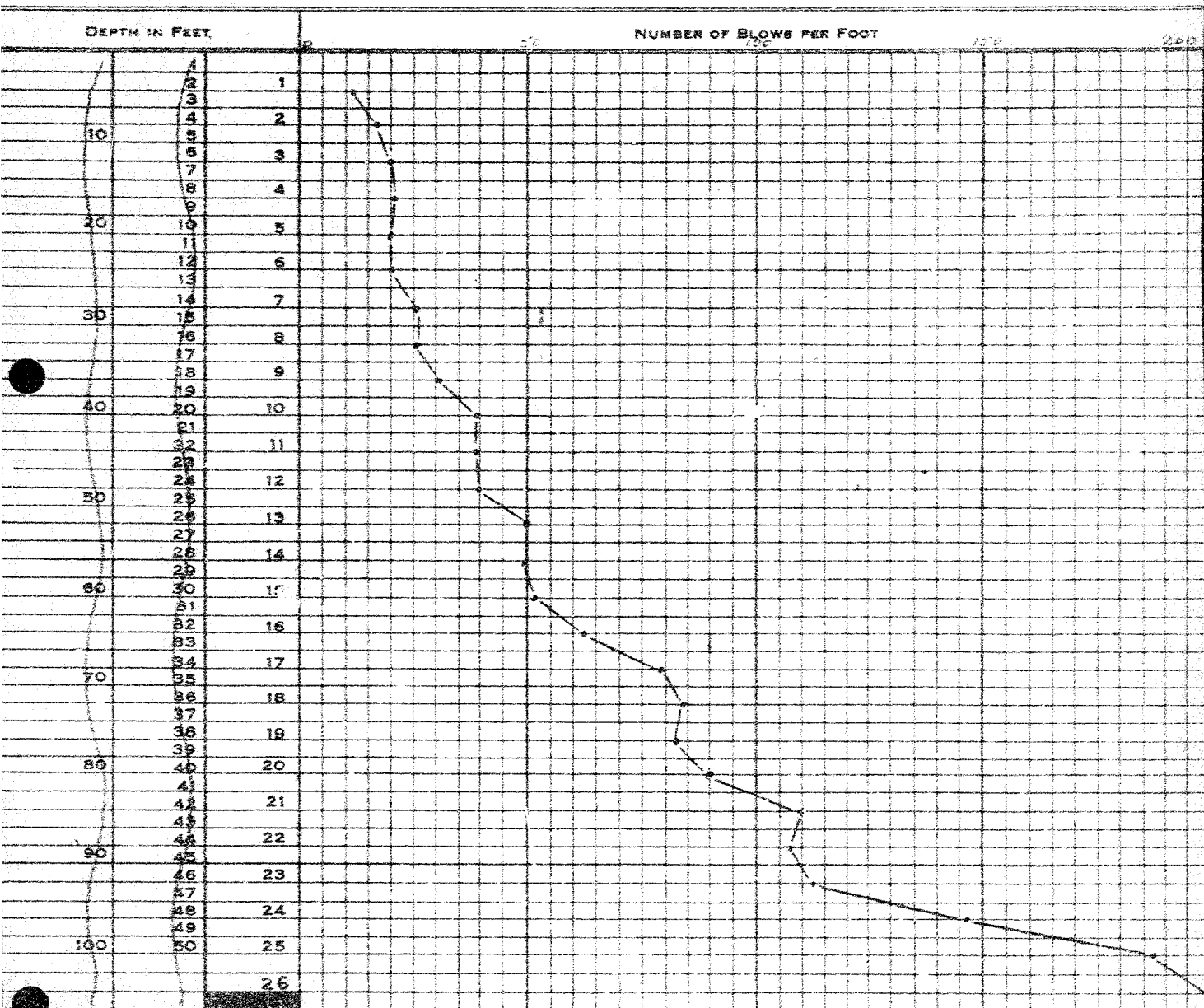
JOB NO. PG 305

DATE SEPTEMBER 16, 1954.

TEST NO.: 1

WEIGHT OF HAMMER 225#

DROP: 3 Ft.



Ground Surface Elevation 913

Refusal Elevation 227

Number of Blows 200 for 9"

Signed .....

# FRANKI PILES

MONTREAL

## PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: DORCHESTER #10.

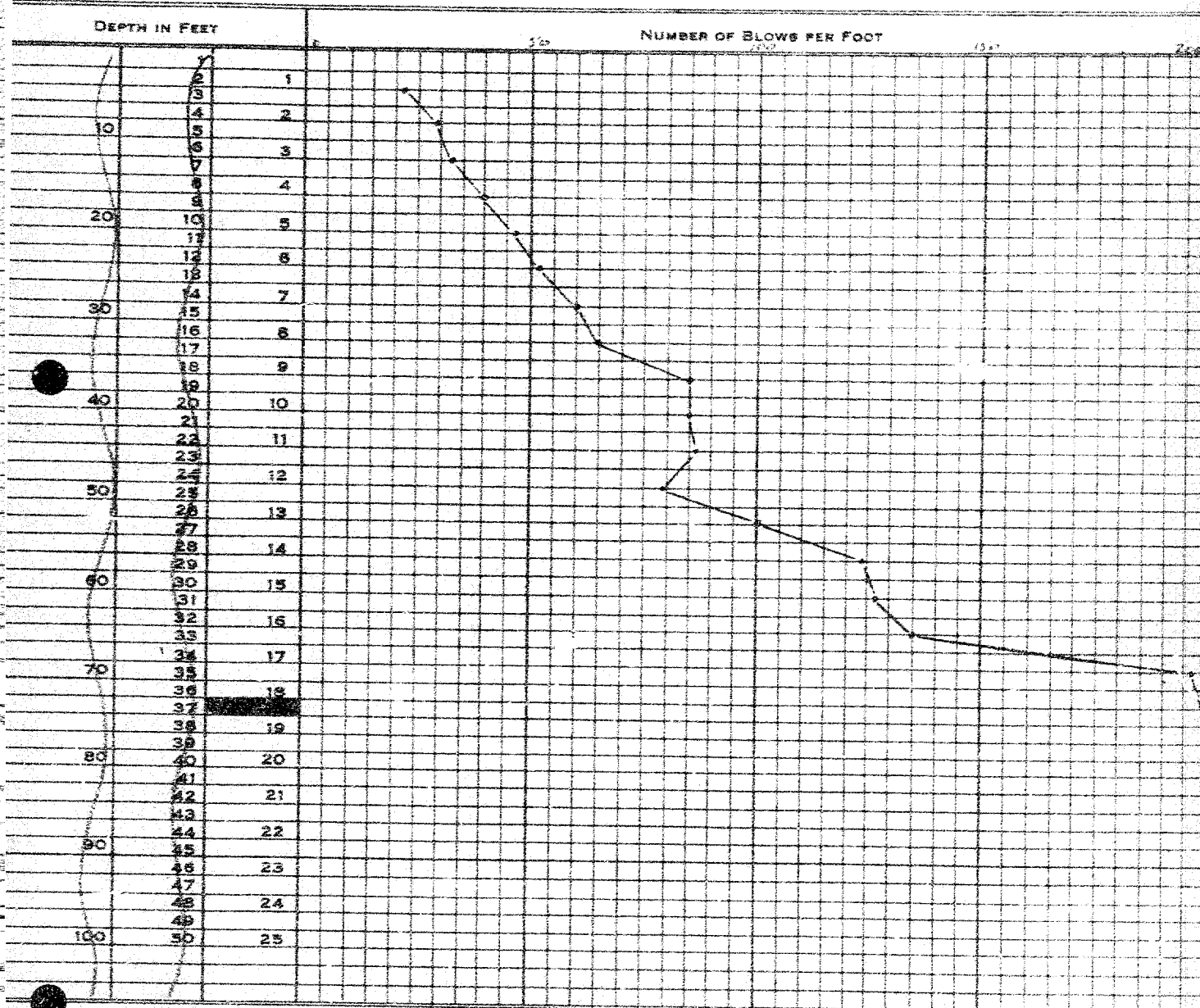
JOB NO. JC 305

DATE SEPTEMBER 17, 1954.

TEST NO.: 3

WEIGHT OF HAMMER 225#

DROP: 3 Ft.



Ground Surface Elevation 911

Refusal Elevation 893

Number of Blows 200 for 10"

Signed .....

# FRANKI PILES

MONTREAL

## PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: DORCHESTER #10.

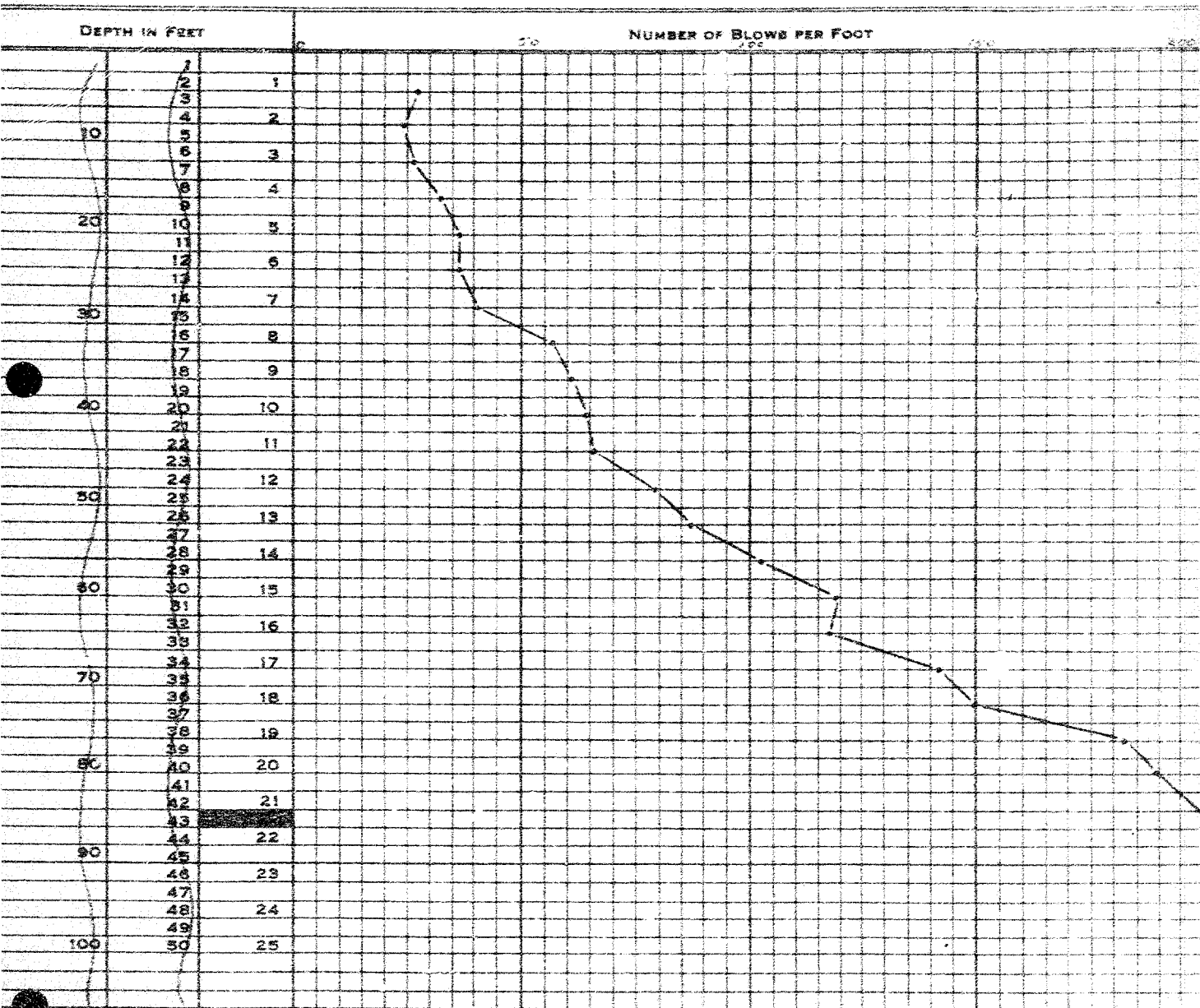
JOB NO. PG 305

DATE SEPTEMBER 14, 1954.

TEST NO.: 4

WEIGHT OF HAMMER 225#

DROP: 3 Ft.



Ground Surface Elevation 913

Refusal Elevation 892

Number of Blows 200 for 12"

Signed .....



# FRANKI PILES

MONTREAL

## PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: DORCHESTER #10.

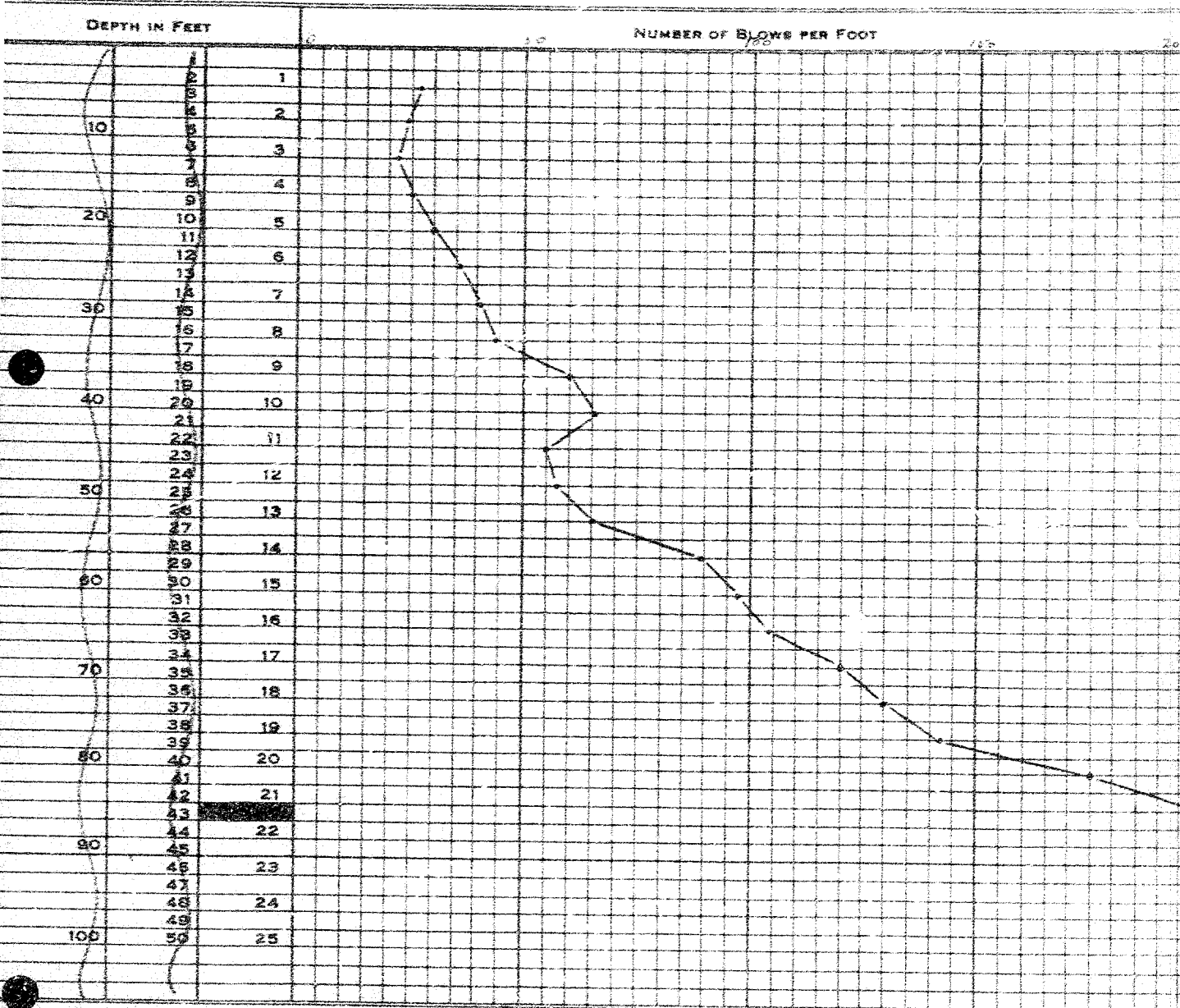
JOB NO. PC 305

DATE SEPTEMBER 14, 1954.

TEST NO.: 5

WEIGHT OF HAMMER 225#

DROP: 3 Ft.



Ground Surface Elevation 912

Refusal Elevation 891

Number of Blows 200 for 10"

Signed .....



# FRANKI PILES

MONTREAL

## PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: DORCHESTER #10.

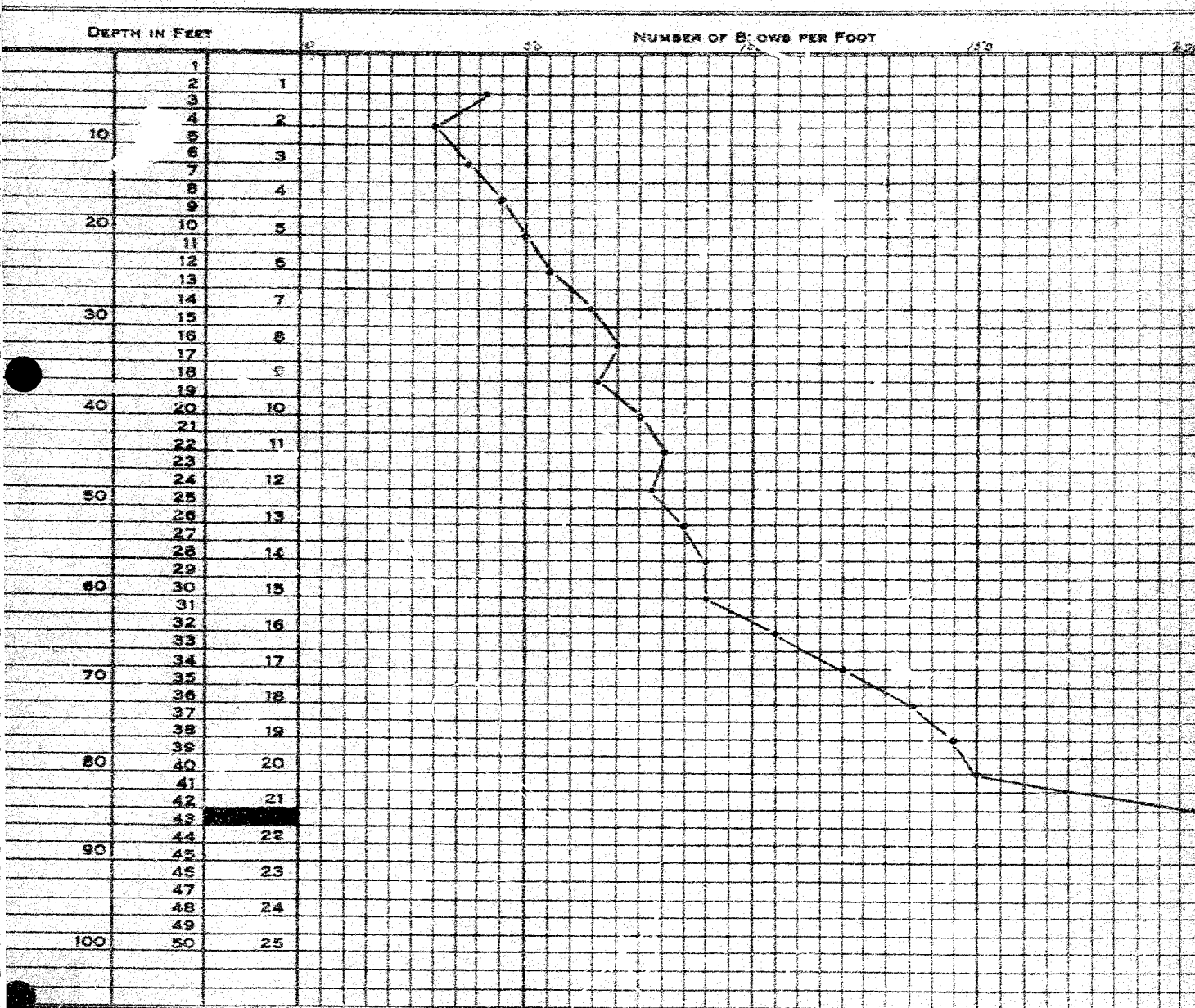
DATE SEPTEMBER 15, 1954.

TEST NO.: 6

WEIGHT OF HAMMER 225#

JOB NO. FC 305

DROP: 3 Ft.



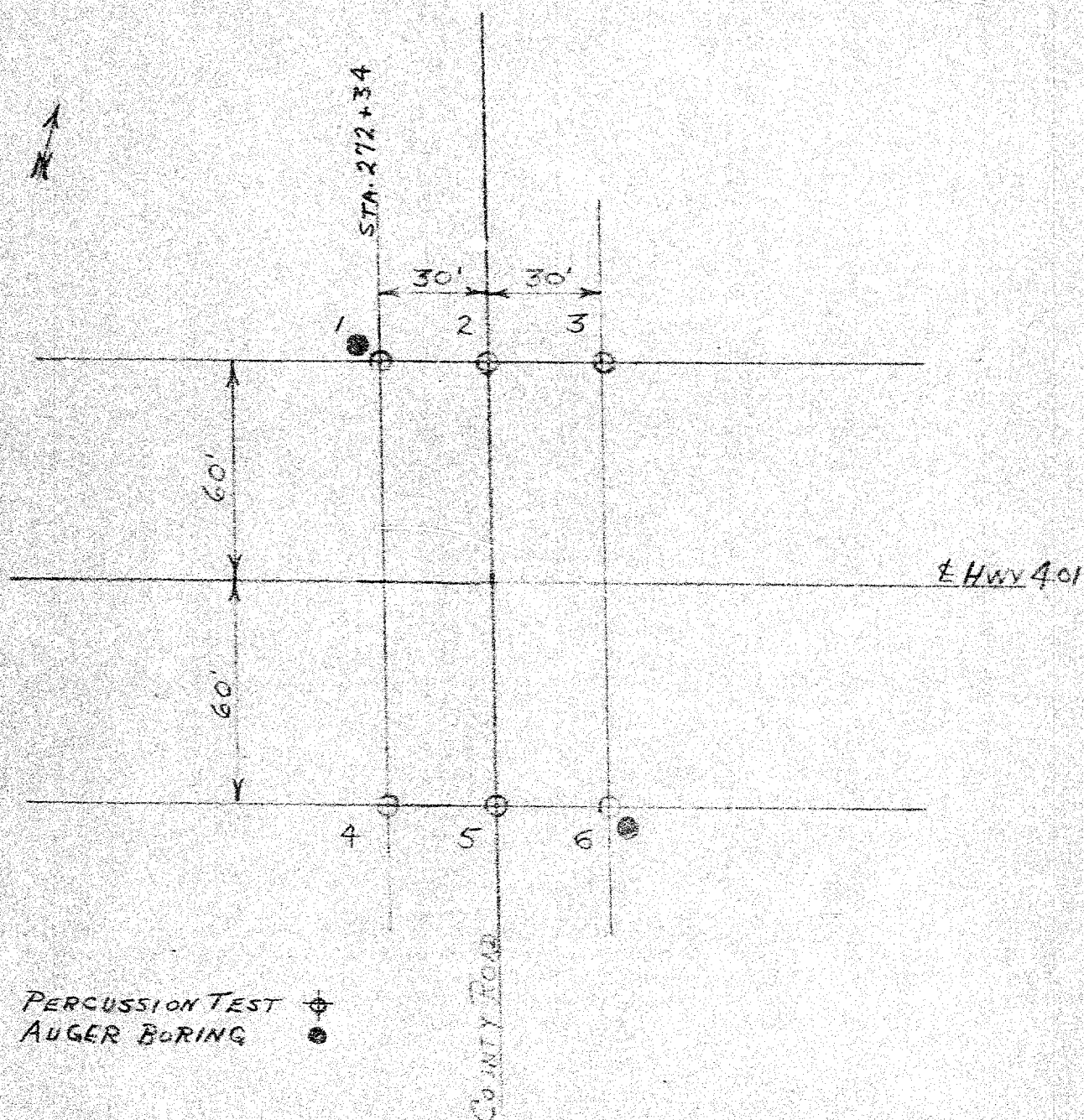
Ground Surface Elevation 912



Refusal Elevation 891

Number of Blows 200 for 11"

Signed .....

LOCATION SKETCH



PERCUSSION TEST   
AUGER BORING 

FRANKI COMpressed PILE COMPANY OF CANADA LIMITED  
for  
DEPARTMENT OF HIGHWAYS ONTARIO  
at  
DORCHESTER #10.

IO 305  
September 20, 1954.

54F-213C



"Franki Piles carry more tons per Pile"

CABLEGRAMS:  
"FRANKIPILE"



TELEPHONE:  
HJOSON 8-9009

# FRANKI

## COMPRESSED PILE COMPANY OF CANADA LIMITED

1235 YONGE STREET

TORONTO 7, ONT.

Our Reference:  
PC 305 A  
October 15th, 1954.

### SOIL INVESTIGATION REPORT for DEPARTMENT OF HIGHWAYS OF ONTARIO (H.M. Dillon, Consulting Engineers) at DORCHESTER #10.

As requested, we carried out an additional soil investigation at the proposed bridge site, Dorchester #10. Report # PC 305 A is supplementary to PC 305.

#### REPORT OF INVESTIGATION:

Two percussion tests were made at locations #7 and #8, as shown on the accompanying Location Sketch. The results are shown on the accompanying diagrams and are summarized as follows.

#### SUMMARY

##### ELEVATIONS -

Hole No:	Ground Surface	2,000 lbs per sq.ft.	3,000 lbs per sq.ft.	4,000 lbs per sq.ft.	Refusal
7	913	906	913	900	885
8	912	908	912	899	885

#### DISCUSSION:

An examination of the accompanying "bearing capacity profile" shows that a "soft" area exists at the Western half of the proposed North abutment.

October 15th, 1954.

CONCLUSION:

The results of field tests indicate that a condition of potential differential settlement exists at the proposed North abutment.

Laboratory consolidation tests on undisturbed samples from both extremities of the proposed North abutment would probably show the relative magnitudes of settlement.

A handwritten signature in dark ink, appearing to read "WHT Wilson". The signature is written in a cursive, somewhat stylized script.

W. H. T. Wilson, P. Eng.

FRANKI  
COMPRESSED FILE COMPANY  
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: DORCHESTER #10

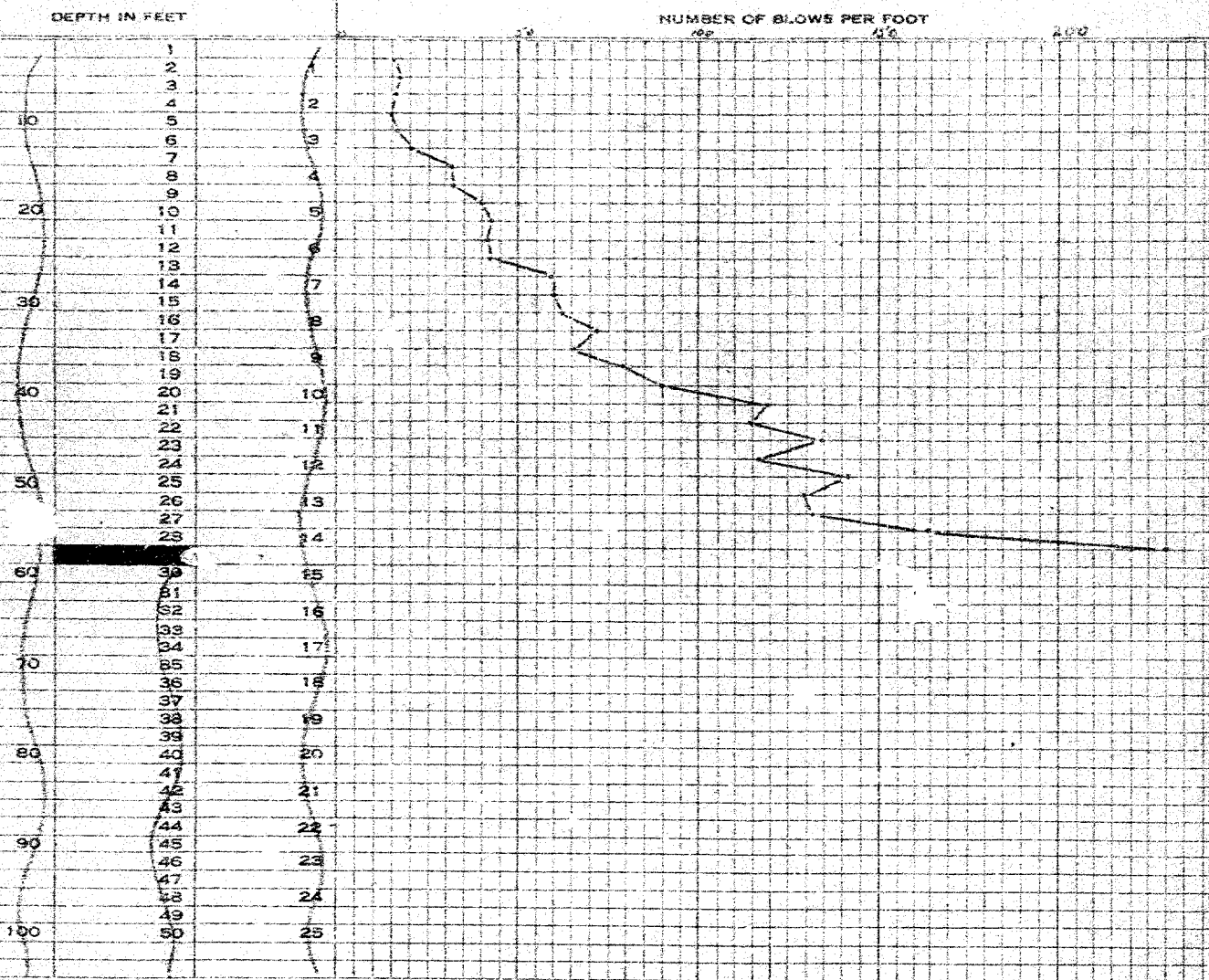
JOB NO. PC 305 A

DATE: OCTOBER 6, 1954.

TEST NO.: 7

WEIGHT OF HAMMER 225#

DROP 3 FT.



Ground Surface Elevation 913  
Refusal Elevation 885  
Number of Blows 230

SIGNED

*Donald J. [Signature]*

FRANKI

COMPRESSED PILE COMPANY  
OF CANADA LIMITED

## PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: DORCHESTER #10

JOB NO. PC 305 A

DATE: OCTOBER 6, 1954.

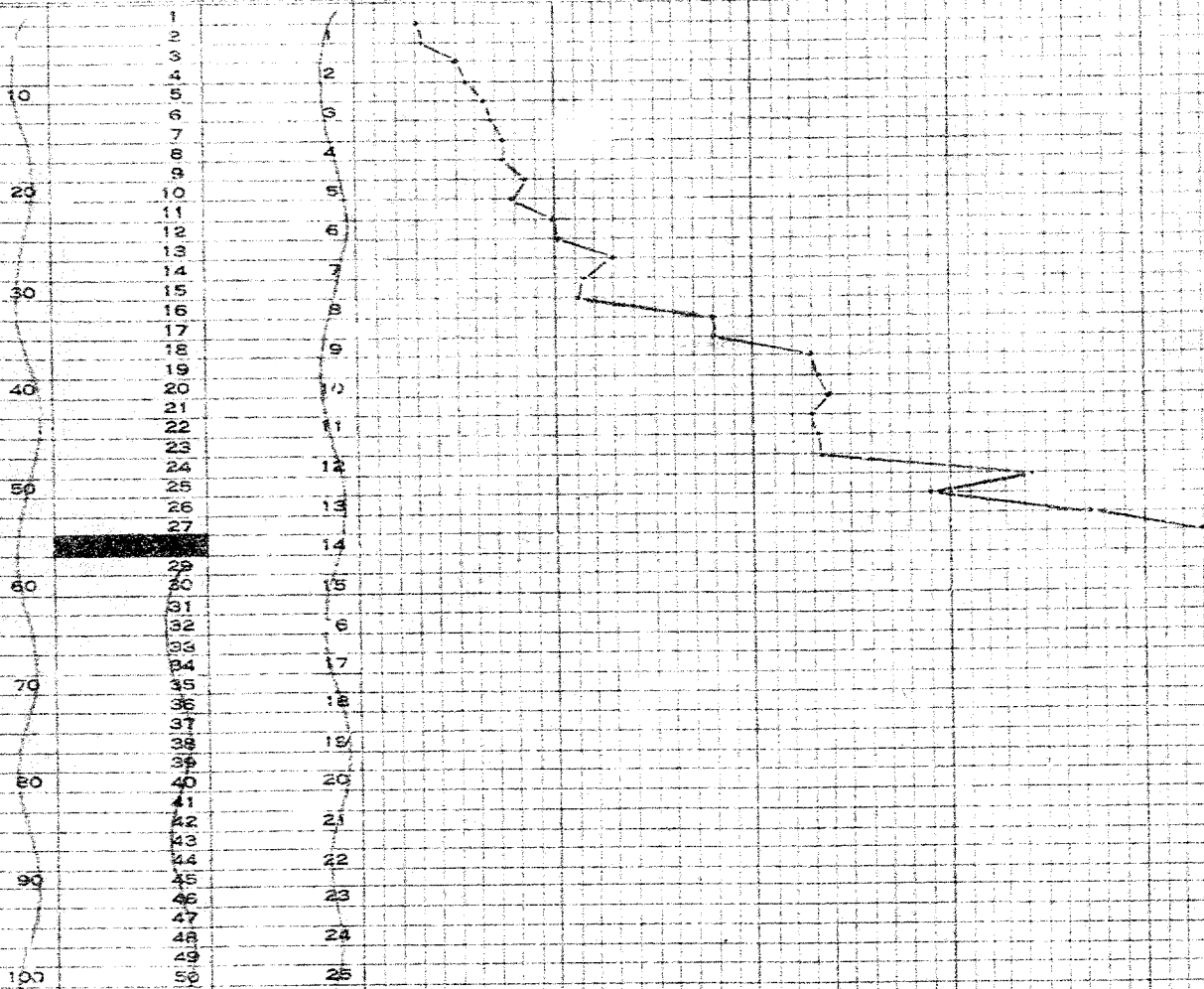
TEST NO.: 8

WEIGHT OF HAMMER 225#

DROP 3 FT.

DEPTH IN FEET

NUMBER OF BLOWS PER FOOT



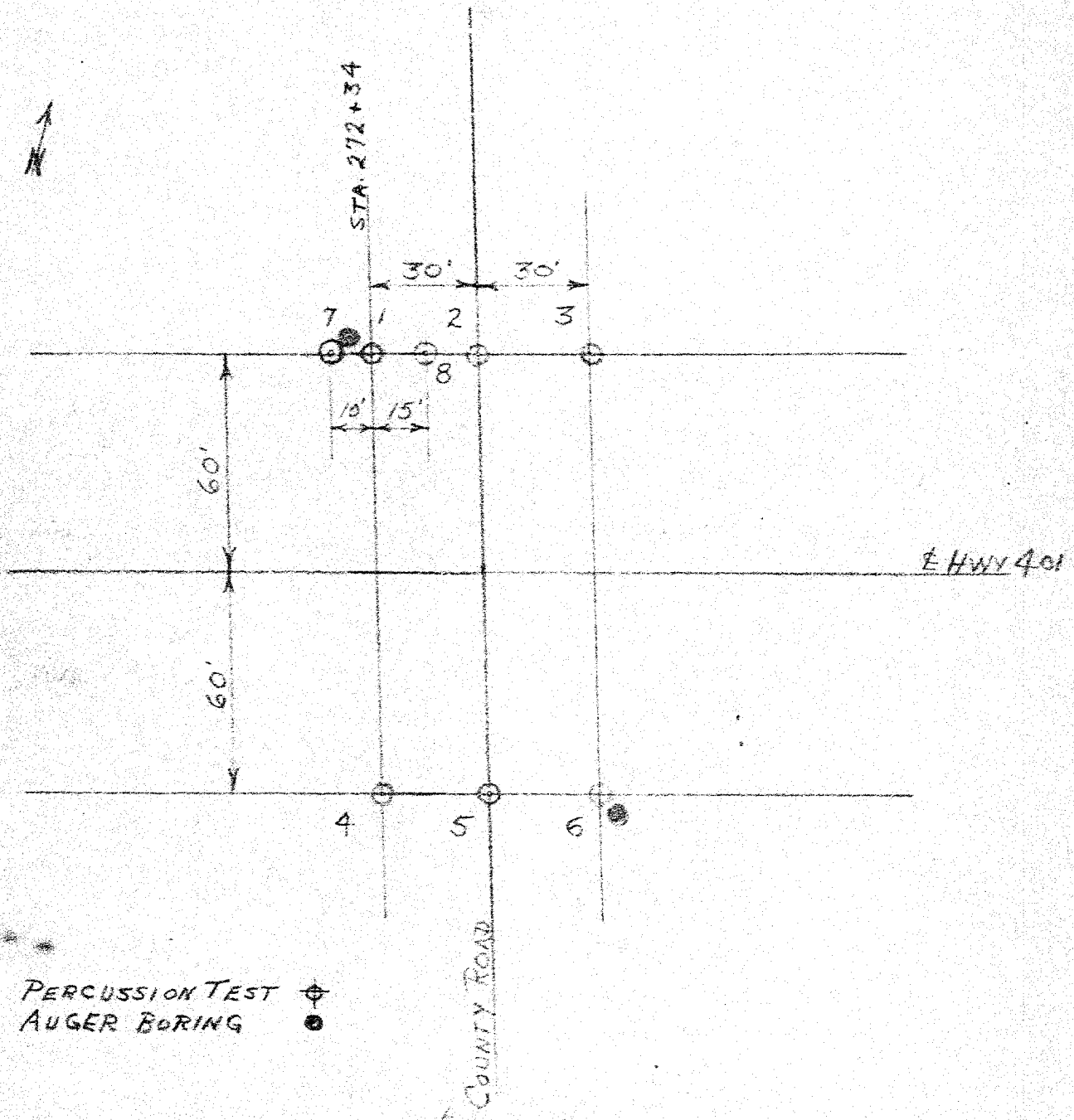
Ground Surface Elevation 912  
Refusal Elevation 885  
Number of Blows 215

SIGNED

*Donald J. Blough*



LOCATION SKETCH

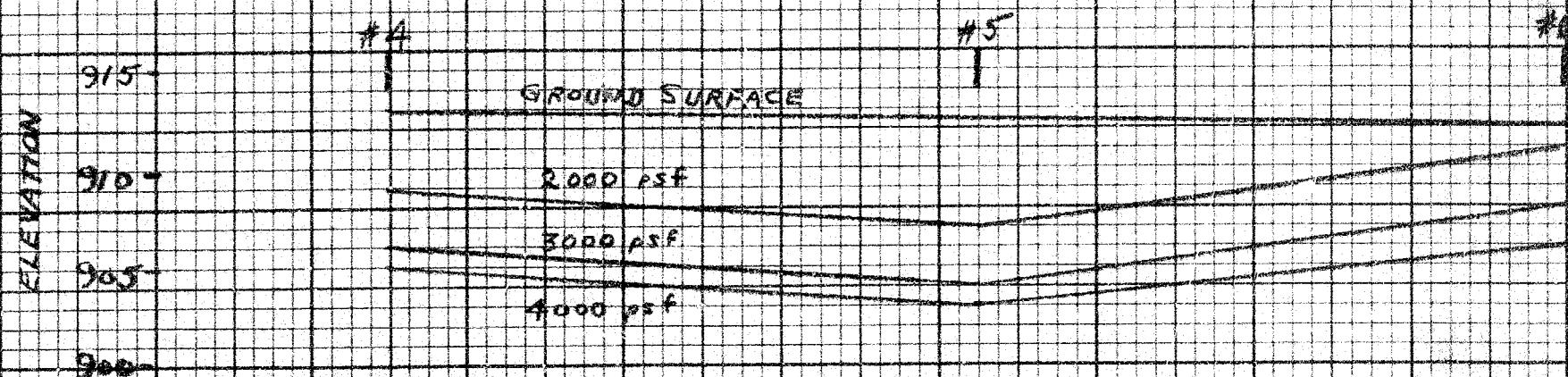
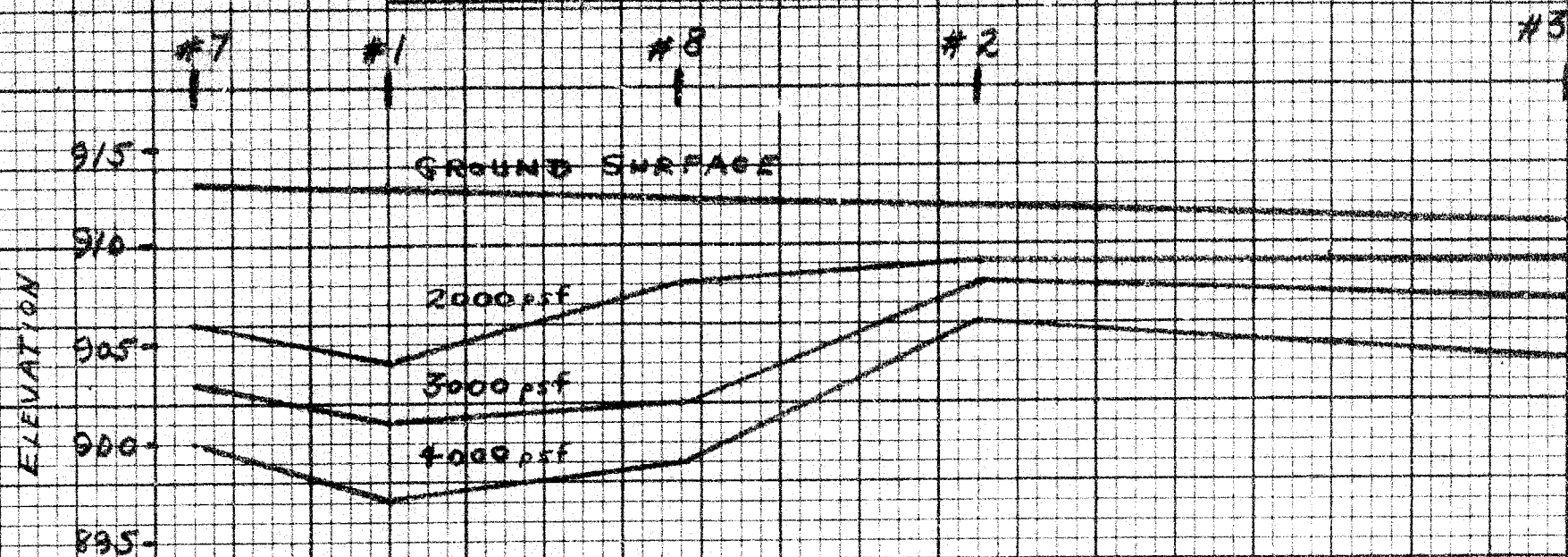


FRANKI COMPRESSED PILE COMPANY OF CANADA LIMITED  
for  
DEPARTMENT OF HIGHWAYS ONTARIO  
at  
DORCHESTER #10.

PC 305  
September 20, 1954.  
PC 305 A  
October 12th, 1954.



# PROFILE of PERCUSSION TEST RESULTS



SCALE: HORIZONTAL 1" = 8'  
VERTICAL 1" = 8'

*Signature*