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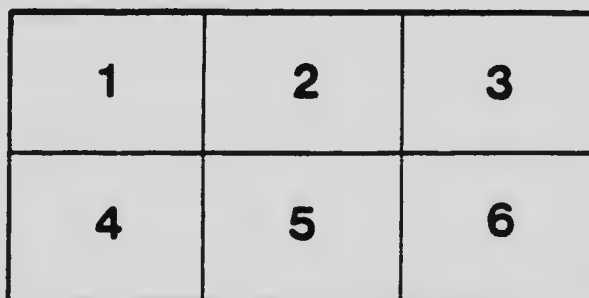
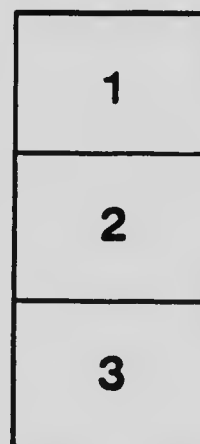
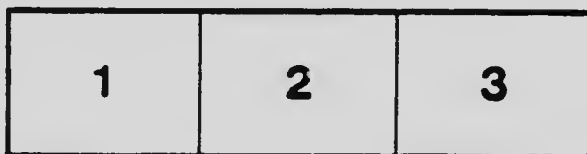
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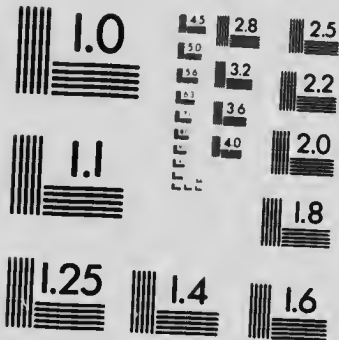
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DEPARTMENT OF THE INTERIOR
DOMINION WATER POWER BRANCH
OTTAWA, CANADA

WATER RESOURCES PAPER No. 3
VOLUME II

WINNIPEG RIVER POWER
AND
STORAGE INVESTIGATIONS

BY

J. T. JOHNSTON, B.A. Sc.
Chief Hydraulic Engineer.

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Prepared under the direction of the Superintendent of Water Power.

OTTAWA
GOVERNMENT PRINTING BUREAU
1915.

DEPARTMENT OF THE INTERIOR—CANADA

Hon. W. J. ROCHE, Minister, W. W. CORY, C.M.G., Deputy Minister.

DOMINION WATER POWER BRANCH,

J. B. CHALLIES, C.E., Superintendent.

WATER RESOURCES PAPER No. 3
VOLUME II

REPORT

ON THE

WINNIPEG RIVER POWER

AND

STORAGE INVESTIGATIONS

BY

J. T. JOHNSTON, B.A. Sc.
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OTTAWA
GOVERNMENT PRINTING BUREAU
1915.

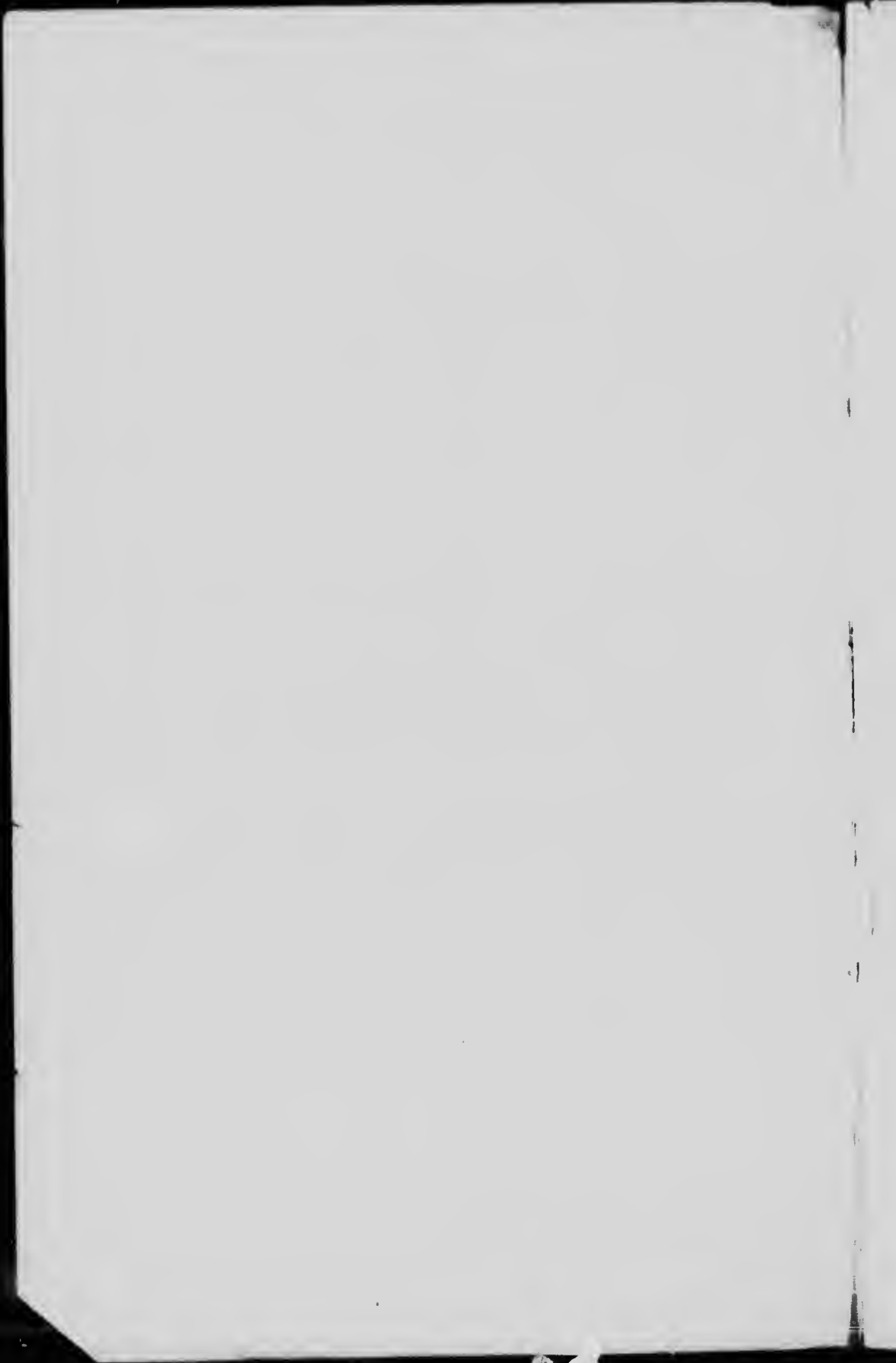


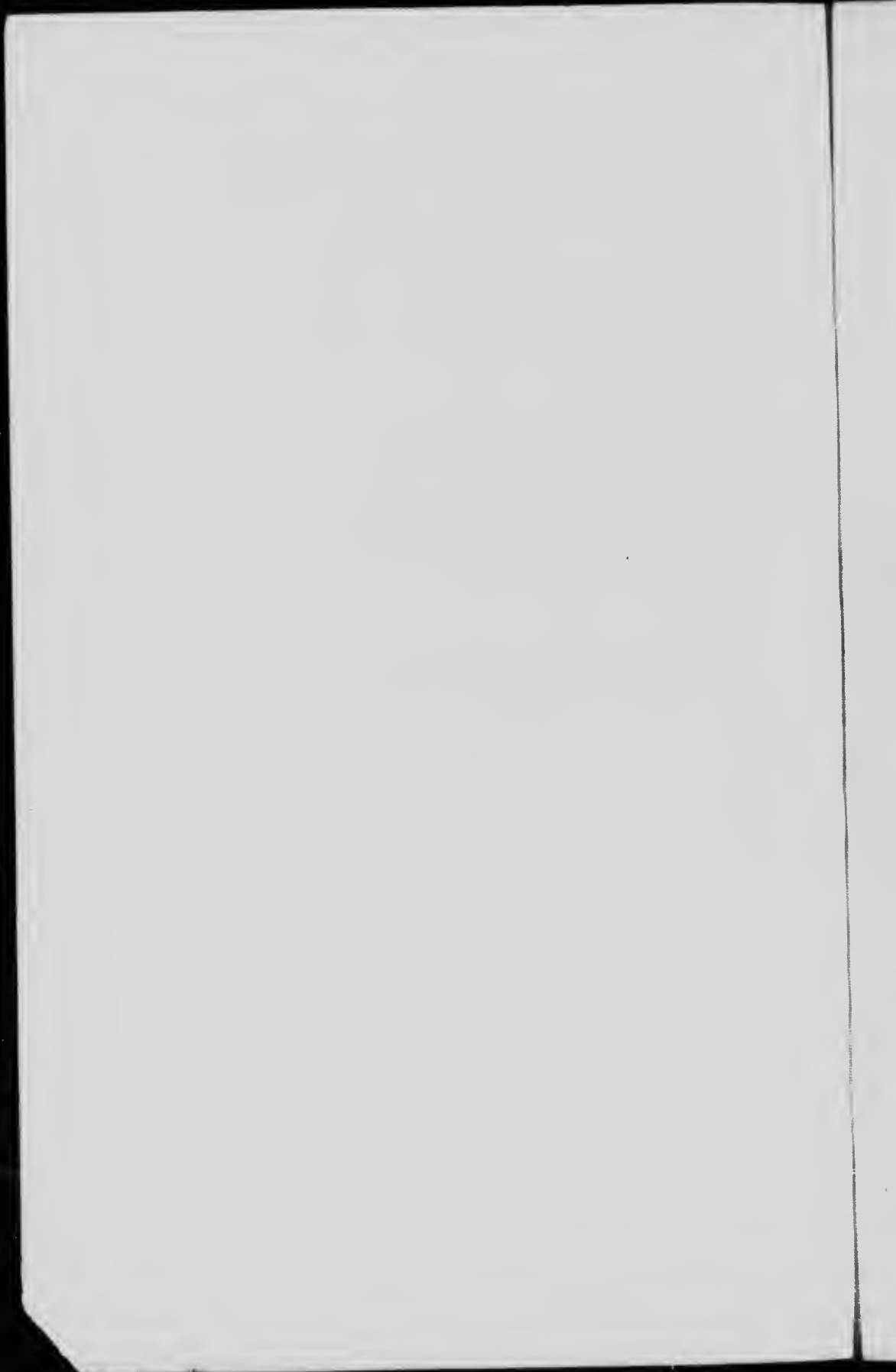
TABLE OF TOPOGRAPHIC SHEETS.

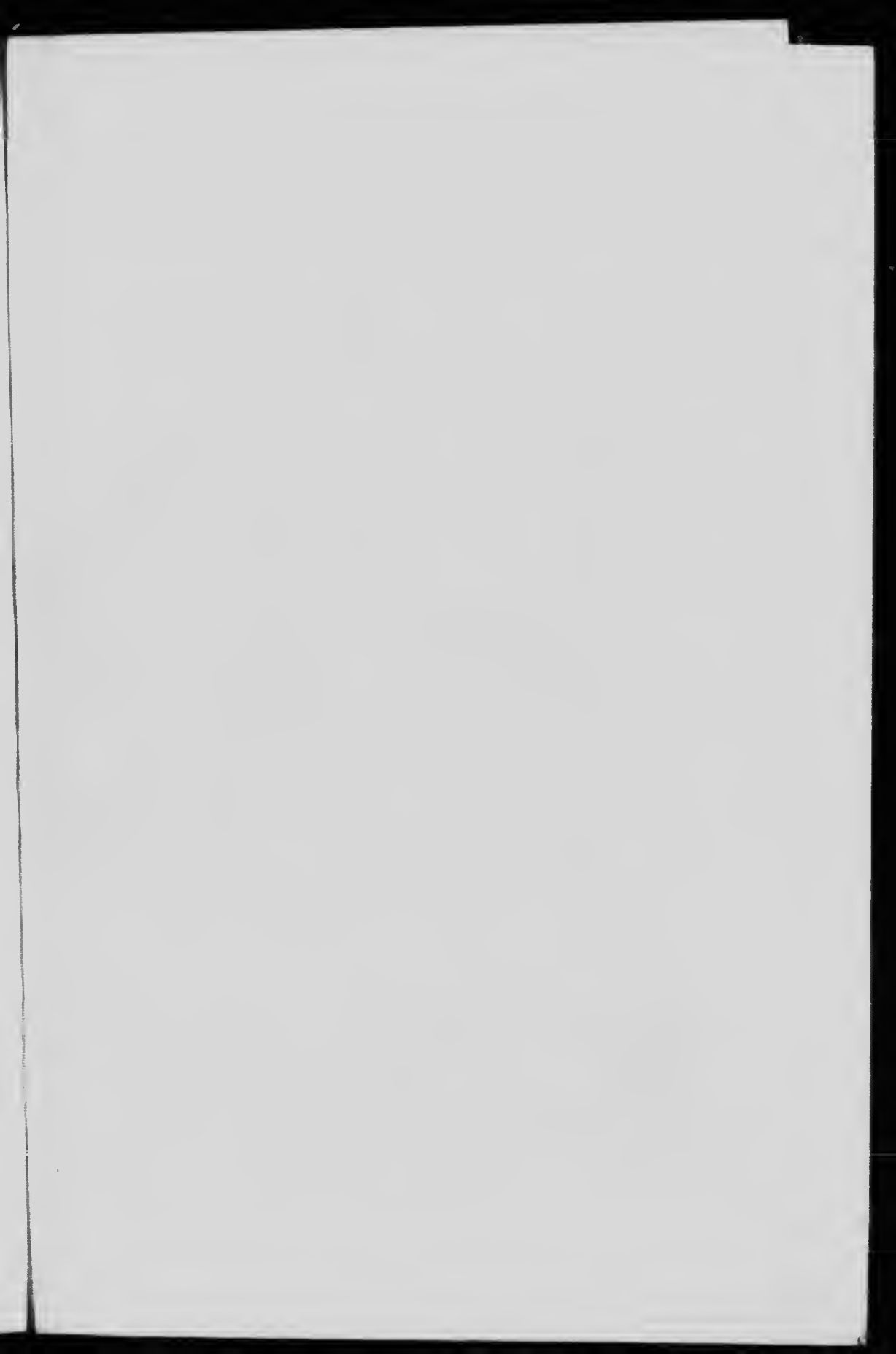
<i>Index Sheet.</i>	
No. 1	Fort Alexander sheet.
No. 2	Pine falls sheet.
No. 3	St. George sheet.
No. 4	Silver falls sheet.
No. 5	White Mud falls sheet.
No. 6	Grand du Bonnet falls sheet.
No. 7	" "
No. 8	" "
No. 9	McArthur falls sheet.
No. 10	" "
No. 11	Lac du Bonnet sheet.
No. 12	" "
No. 13	" "
No. 14	" "
No. 15	" "
No. 16	" "
No. 17	" "
No. 18	Seven Sisters sheet.
No. 19	" "
No. 20	" "
No. 21	" "
No. 22	" "
No. 23	Twin falls sheet.
No. 24	" "
No. 24A	Otter falls sheet.
No. 25	Pinawa channel sheet.
No. 26	" "
No. 27	" "
No. 28	" "
No. 29	" "
No. 30	" "
No. 31	" "
No. 32	" "
No. 33	" "
No. 34	" "
No. 35	Lac du Bonnet sheet.
No. 36	" "
No. 37	" "
No. 38	" "
No. 39	" "
No. 40	Bird river sheet.
No. 41	" "
No. 42	Lake Dorothy sheet.
No. 43	" "
No. 44	Sturgeon falls sheet.
No. 45	Lake Jessie sheet.
No. 46	Tye creek sheet.
No. 47	" "
No. 48	Slave falls sheet.
No. 49	" "
No. 50	Point du Bois falls sheet.
No. 51	Point du Bois pond.
No. 52	" "
No. 53	" "
No. 54	" "
No. 55	" "

00938221

NOTE.

On the topographic sheets appended are plotted the basic data upon which the power proposals covered in Volume I have been developed. Sheets 1 to 50 completely cover the reach of river from Lake Winnipeg to the Hydro-Electric plant of the City of Winnipeg at Point du Bois falls, and contain the data gathered by the power party in the field. Sheets 51 to 55 have been based on Dominion Land Survey plans and depict the flooding caused by the City Plant.







Department of the Interior Canada

HONORABLE ROBERT BRIDGES MINISTER

W. W. COLE, C.M.G. DEPUTY MINISTER

Water Power Branch

J. B. COLLIER, Surveyor-General

WINNIPEG RIVER POWER SURVEYS
INDEX MAP
TO TOPOGRAPHIC SHEETS

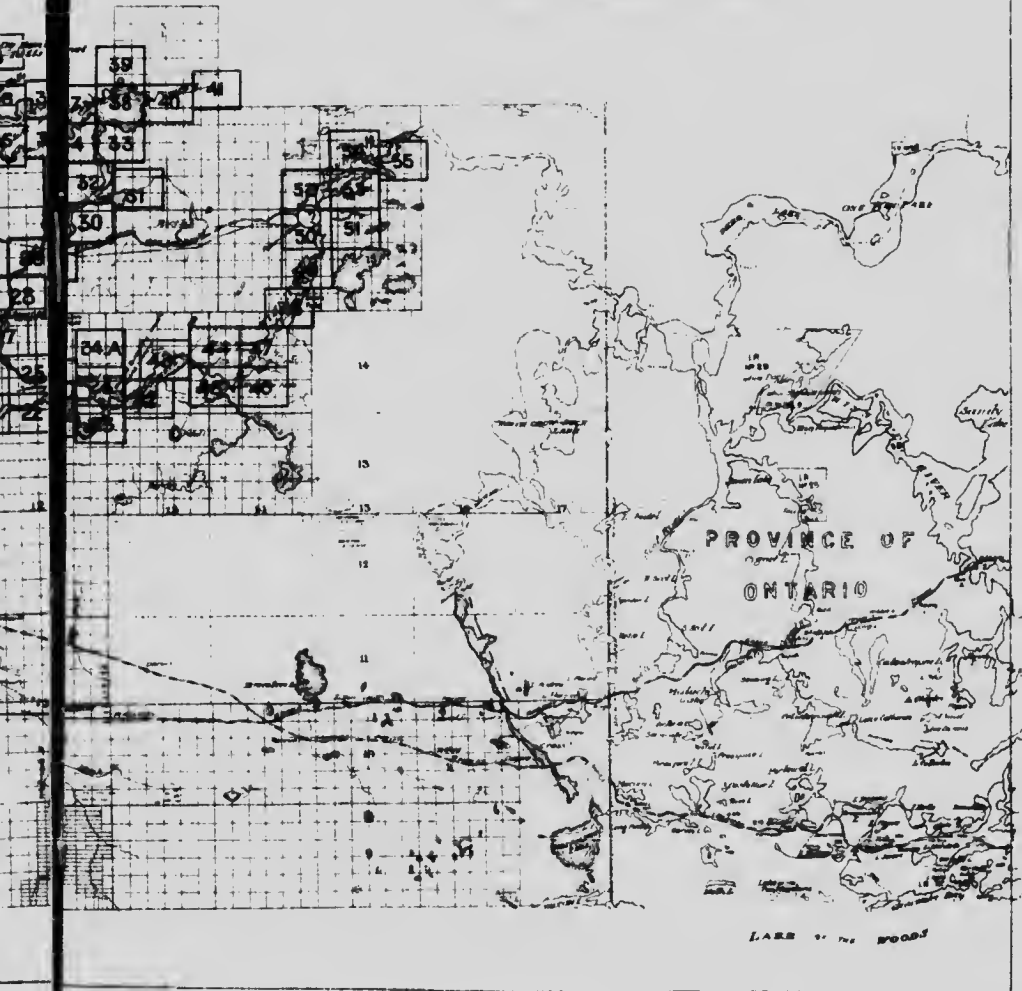
May 1912

J. B. Collier Surveyor-General
Douglas A. McMillan Chief Engineer

UNSURVEYED

Scale

1 : 62,500



Department of the Interior
W. H. ROBERTS, CHIEF
W. W. COYNE, DEPUTY CHIEF
Water Power Branch
J. B. COOPER, SUPERVISOR

WINNIPEG RIVER POWER FORT ALEXANDER TOPOGRAPHIC SHEET

SCALE 1:50,000
U.S. GEOLOGICAL SURVEY

MAY 1902



Latitudes and Departures on this plan
refer to initial point at Grand du Bonnet Falls

Scale

U.S. GEOLOGICAL SURVEY

ALEXANDER
RESERVE

East of the Principal Meridian
East of the Principal Meridian

Geo Spence

AVINCENT

Joe Houston

52

51

50

FORT
INDIAN

Township 18 Range 9

Township 18 Range 10

L. Schanor

AVINCENT

J. Dupuy

25

24

23



Department of the Interior, Canada
ROBERT ROGERS MINISTER
C.M.G. DEPUTY MINISTER
Power Branch
CHIEF SUPERINTENDENT

HYDRO-ELECTRIC POWER SURVEYS

FORT ALEXANDER

PHOTOMIC SHEET - No 1

BASED UPON THE PHOTO SURVEYS BY

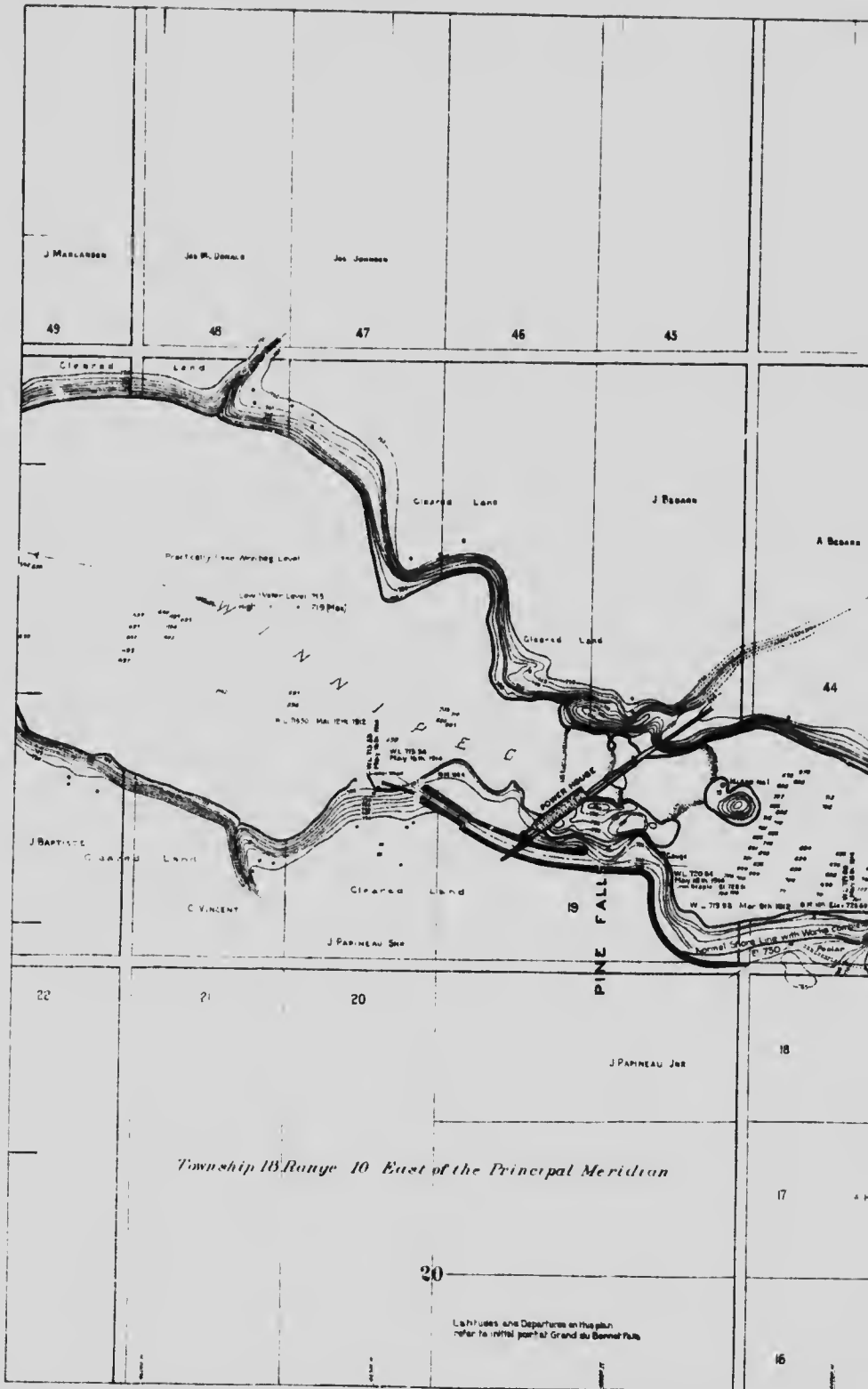
S.E. HARRIS, M. Sc.
and G.D. COLEMAN

CONSULTING ENGINEER

W. H. HARRIS

CHIEF ENGINEER

Scale



Township 18 Range 10 East of the Principal Meridian

20

Les Hautes et Basses dans ce plan referent au rivage principal Grand du Bonnet Plus

16

Department of the Interior Canada

MINISTRAL REPORT NUMBER 10000

WATER POWER BRANCH

Water Power Branch

10 CANADA BUILDING

WINNIPEG RIVER POWER SURVEYS PINE FALLS

TOPOGRAPHIC SHEET No. 2

CONTAINS IN PART SURVEY DATA FROM SURVEYS BY
S. E. HARRIS, P. E.
1907-1908-1909

May 1921

W. J. ...

CONSULTING ENGINEER

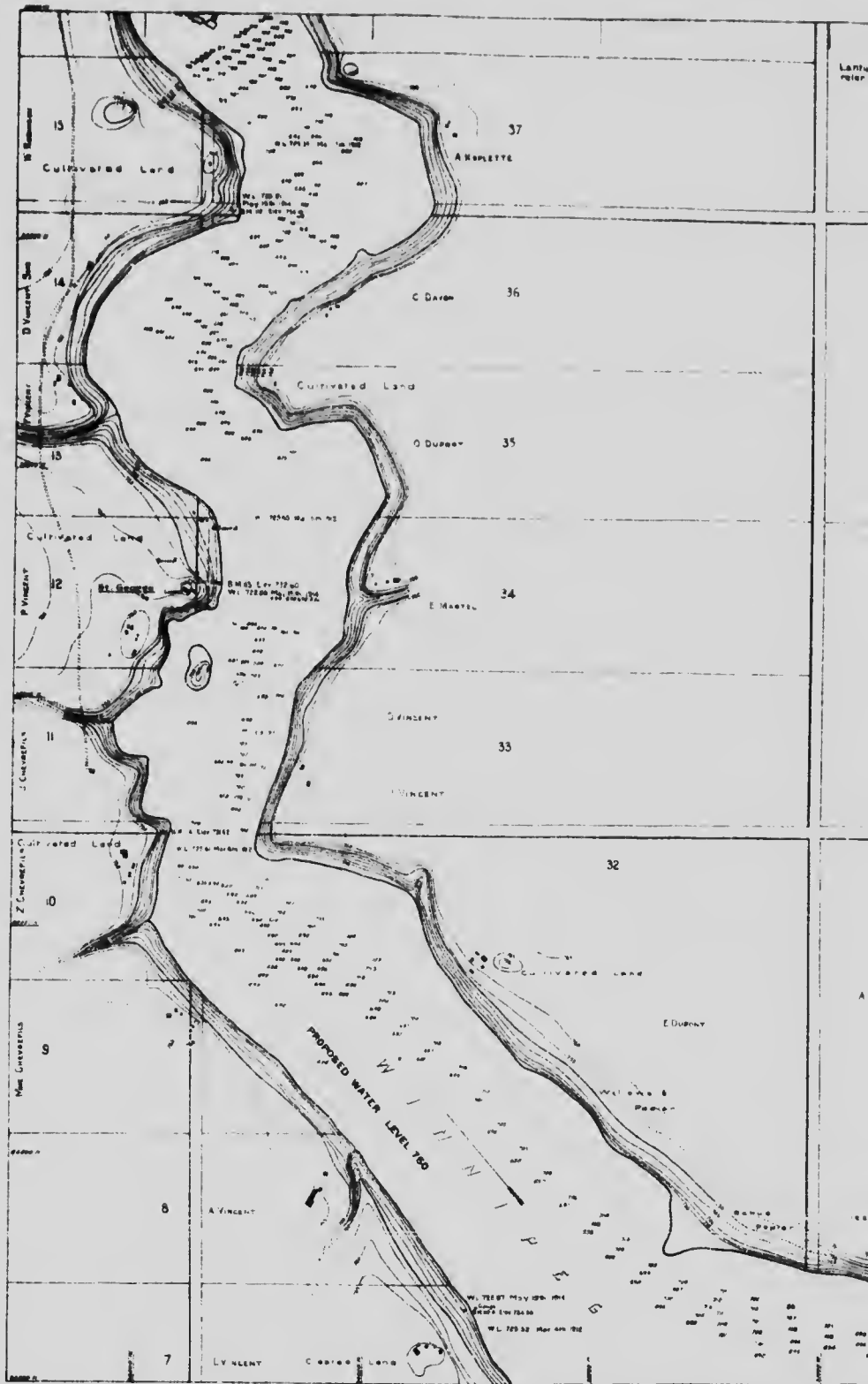
W. J. ...

CHIEF ENGINEER

Scale

NOTE: SHOWING POWER CONCENTRATION & DISTRIBUTION, LAYOUT PROPOSED AT PINE FALLS AS A SUPPLEMENTARY LINE IN A CANADIAN HYDRO-ELECTRIC SYSTEM FOR THE WINNIPEG RIVER IN MANITOBA





Latitudes and Departures on this plan refer to initial point of Grande Riviere Falls

Department of the Interior (Canada)

MINISTER OF THE INTERIOR

WATER POWER BRANCH

WATER POWER BRANCH

1907

WINNIPEG RIVER POWER SURVEYS

St. GEORGE

TOPOGRAPHIC SHEET No. 3

CONTAINS A SET OF CROSS SECTIONS FROM SURVEYS OF
S.E. BROWN IN 18
ON 1887-1888

Map 798

J. G. Macdonald

CONSULTING ENGINEER

Stephen A. McWilliam CHIEF ENGINEER

Scale

M

Township 18, Range 10 East of the Principal Meridian

31

30

29

28

A. A. VINCENT

HENRY MACFARLANE

J. H. CHEVREUIL

EDMONT

GEORGE BEDARD

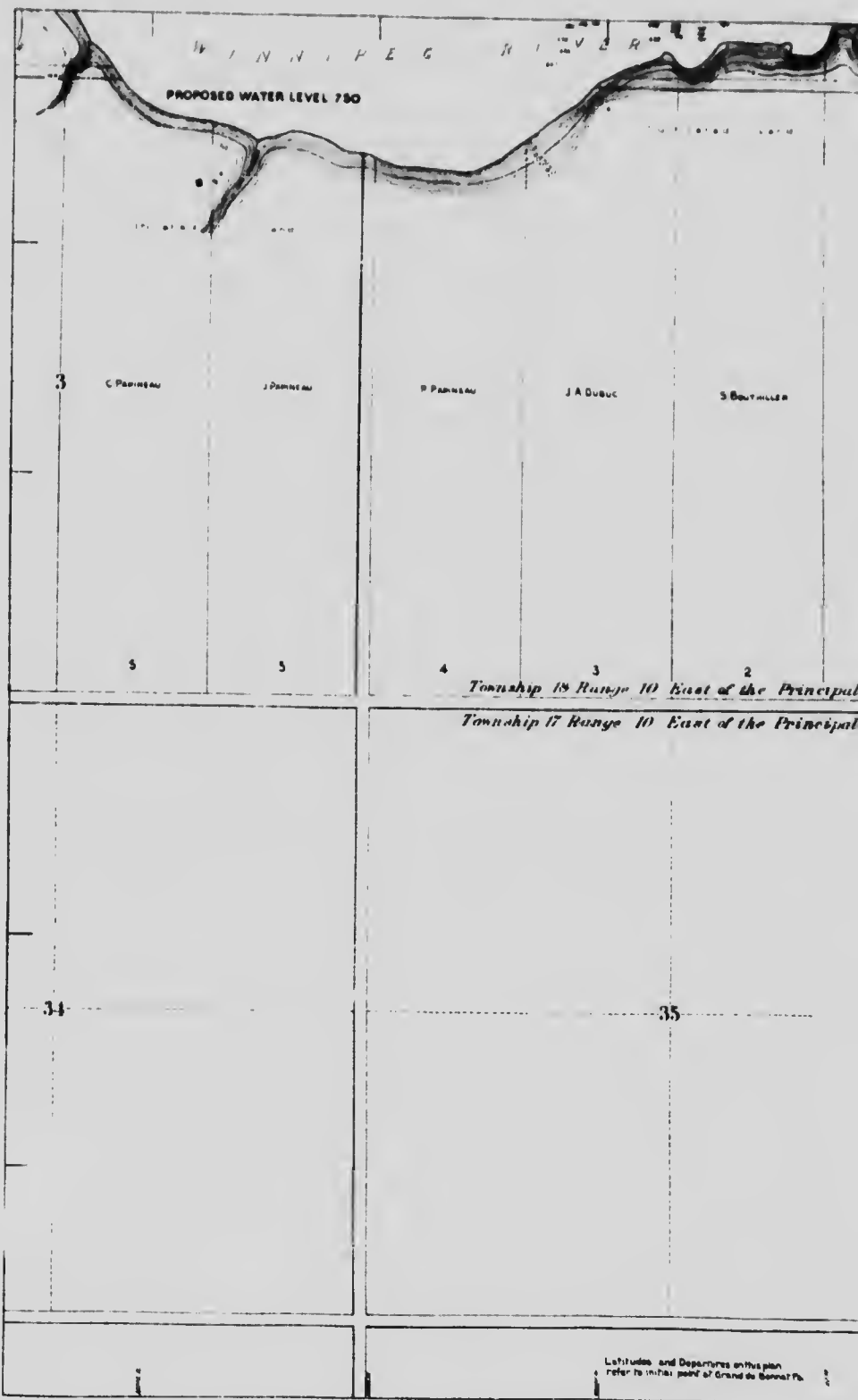
27

M. DUBOIS

26



1:25,000 Feb. 20th 1907



Department of the Interior Canada
BUREAU OF GEODESY
WATER POWER SURVEYS
SILVER FALLS
RECONSTRUCTION

WINNIPEG HYDRO POWER SURVEYS SILVER FALLS

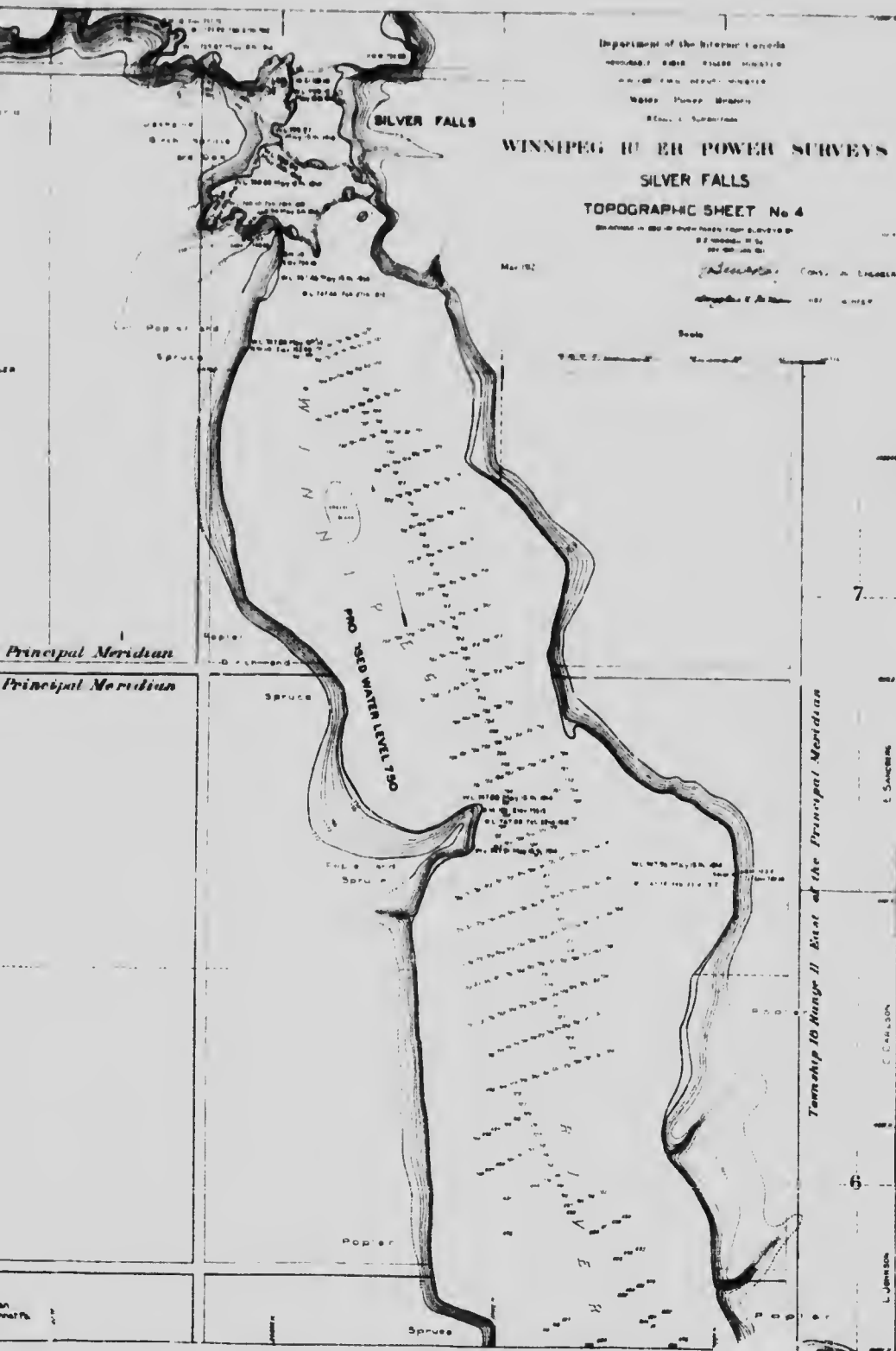
TOPOGRAPHIC SHEET No 4

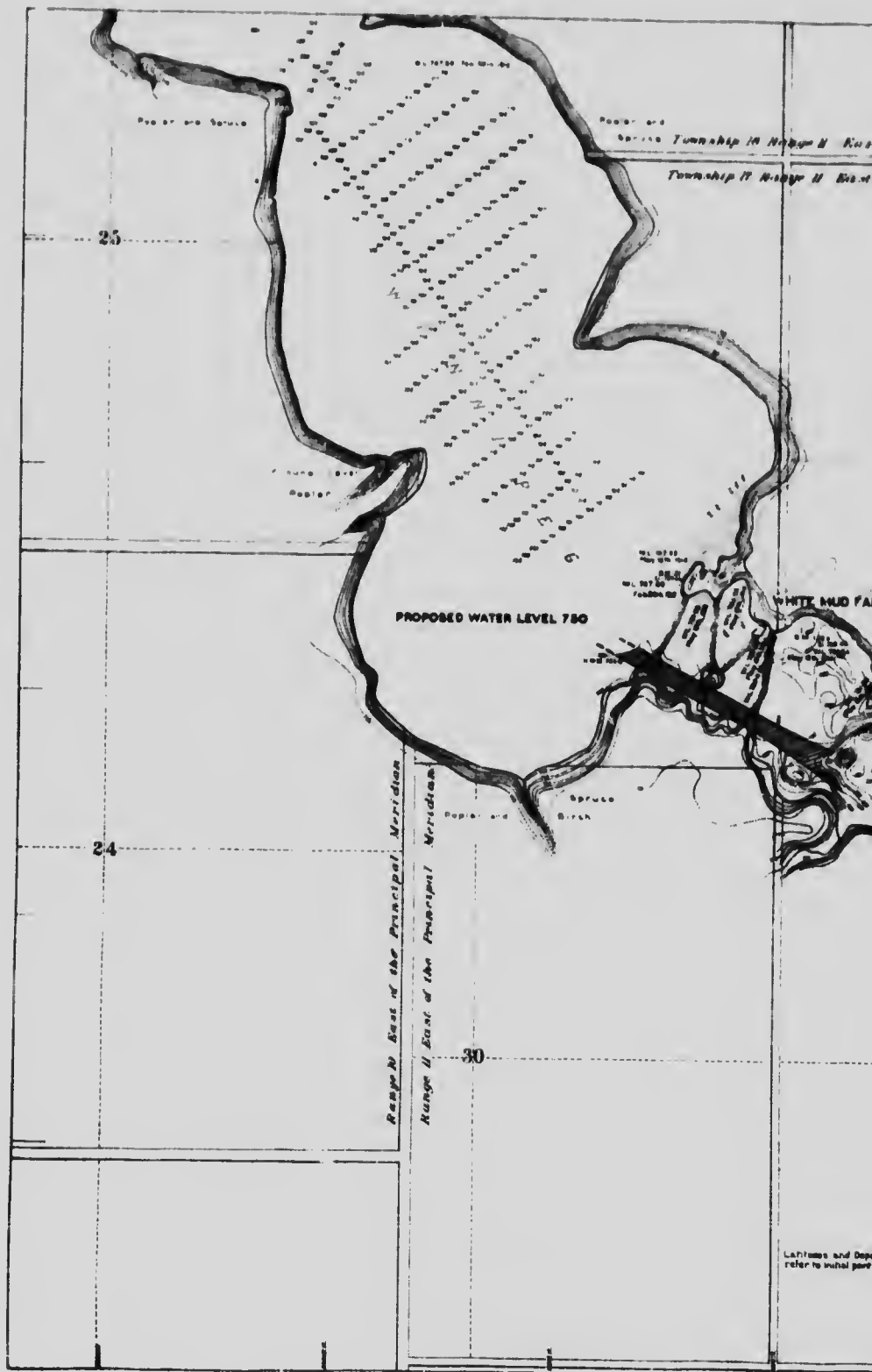
Scale 1:50,000
SHEET NO. 4 OF 10
MAY 1922

Surveyed by *W. A. LINDSEY* Cont. by *ENGELB*

Checked by *W. A. LINDSEY*

Scale





Department of the Interior Canada

MINISTER OF THE INTERIOR

Water Power Branch

Winnipeg, Manitoba

1/4 Sec. 32 East of the Principal Meridian

1/4 Sec. 29 East of the Principal Meridian

WINNIPEG RIVER POWER SURVEYS WHITE MUD FALLS TOPOGRAPHIC SHEET No. 8

NOTE - SHOWING PROPOSED ROCK CUT IN CONNECTION WITH DU BOISSET FALLS CONCENTRATION.

May 1911

J. H. ...

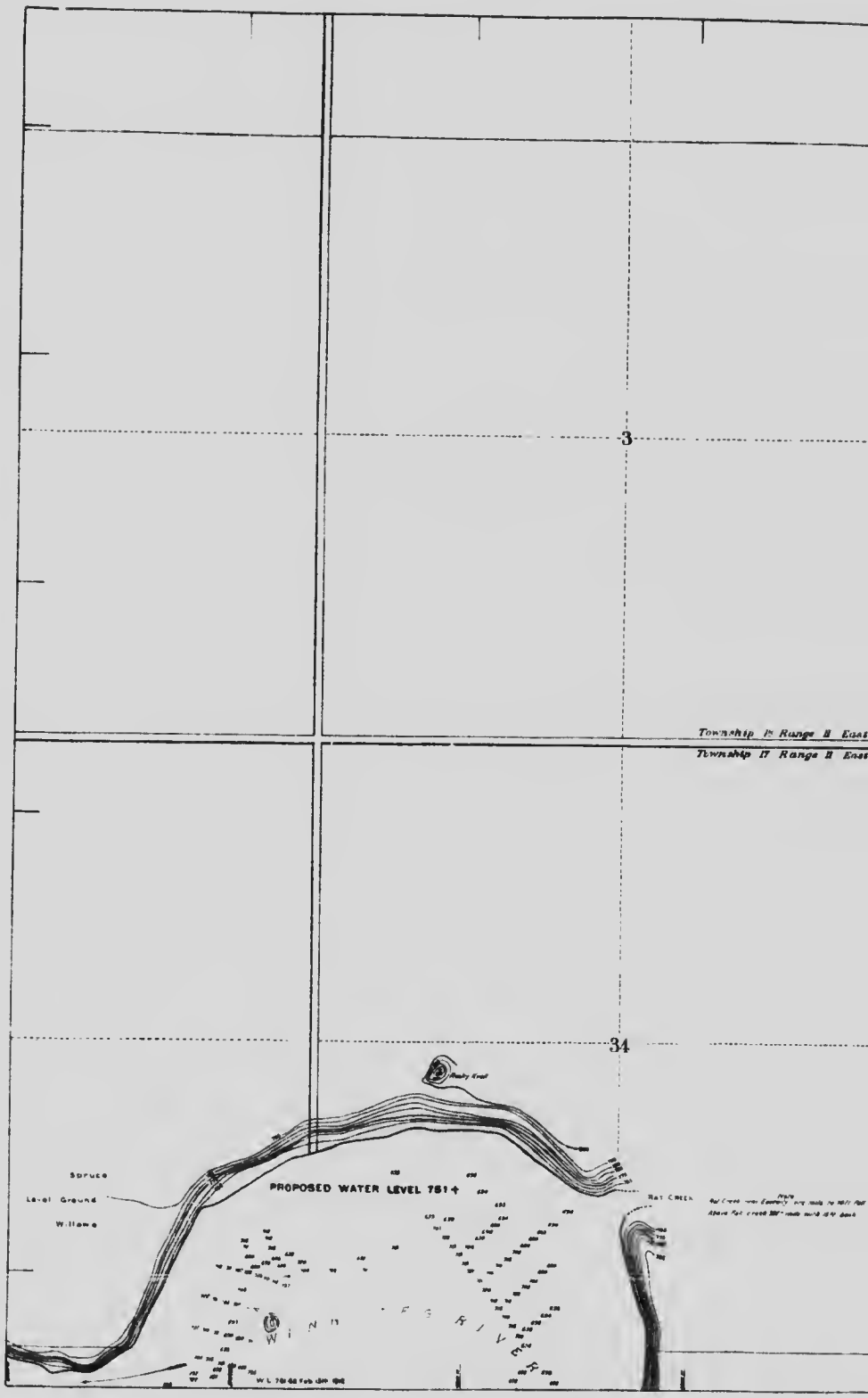
Scale of 1 inch = 100 feet

CONTAINED IN ONE OF SEVEN TOPOGRAPHIC SHEETS SURVEYING OF THE WINNIPEG RIVER AT WHITE MUD FALLS

1:50,000



Elevations and Departures on this plan refer to initial point at Grand du Bois Falls



ange 11 East of the
ange 11 East of the

Principal Meridian
Principal Meridian

Department of the Interior, Canada
HONOURABLE ROBERT FOULKE, MINISTER
W. W. GORY, C.M.G., DEPUTY MINISTER
Water Power Branch
J. R. COLLIER, SUPERINTENDENT

WINNIPEG RIVER POWER SURVEYS
GRAND DU BONNET FALLS
TOPOGRAPHIC SHEET No 6

BOUNDING IN BED OF RIVER TAKEN FROM SURVEYS BY
S. E. TORREY, M. G.
1870-1871

May 1882

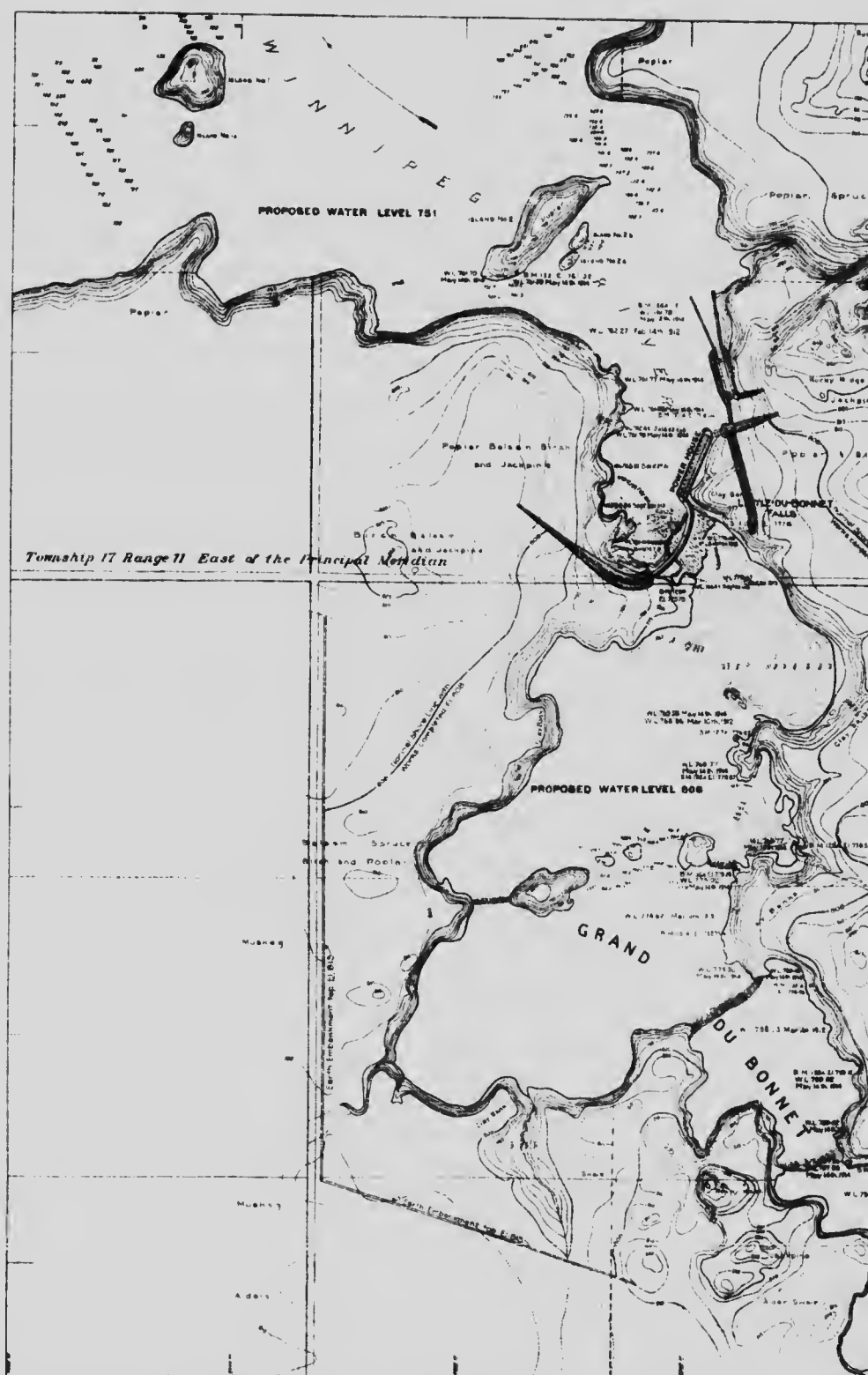
J. R. Collier
Superintendent

CHIEF ENGINEER

Scale



Latitudes and Departures on this plan
refer to initial point at Grand du Bonnet Falls



Department of the Interior, Canada

HONORABLE ROBERT ADAMS, MINISTER

W. W. GARDNER, DEPUTY MINISTER

Water Power Branch

180-1000 Series 1000

WINNIPEG RIVER POWER SURVEYS

GRAND DU BONNET FALLS

TOPOGRAPHIC SHEET — No. 7

Scale

May 1912

W. W. Gardner

CONSULTING ENGINEER

W. W. Gardner

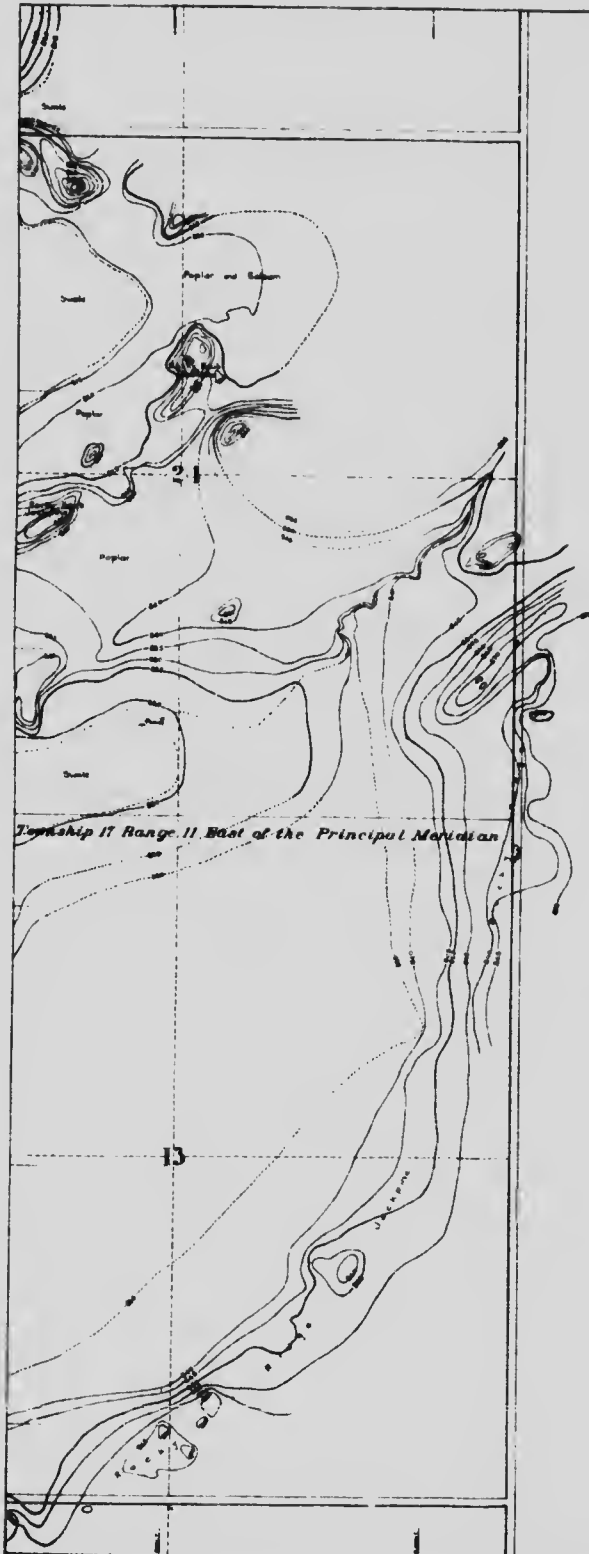
CONSULTING ENGINEER

BOUNDARIES IN RED OF RIVER BANKS FROM SURVEYS BY

G. S. BROWN, P. E.

1898-1900-1901





Latitudes and Departures on this plan
 refer to initial point of Grand du Bonnet Falls.

Department of the Interior, Canada

HONOURABLE ROBERT BODERS, MINISTER

HON. FORT CARRÉ, DEPUTY MINISTER

Water Power Branch

J. B. Côté, Superintendent

WINNIPEG RIVER POWER SURVEYS
GRAND DU BONNET FALLS
TOPOGRAPHIC SHEET No. 8

MAY 1912

J. B. Côté

CONSULTING ENG. IN CH.

Wm. H. McNamee

CHIEF ENGINEER

Scale





Township 17 Range 11 East of the Principal Meridian

15

10

5

PROPOSED WATER LEVEL

Latitudes and Departures on refer to initial part of Grand



WINNIPEG RIVER POWER SURVEYS
McARTHUR FALLS
TOPOGRAPHIC SHEET No. 9

Scale

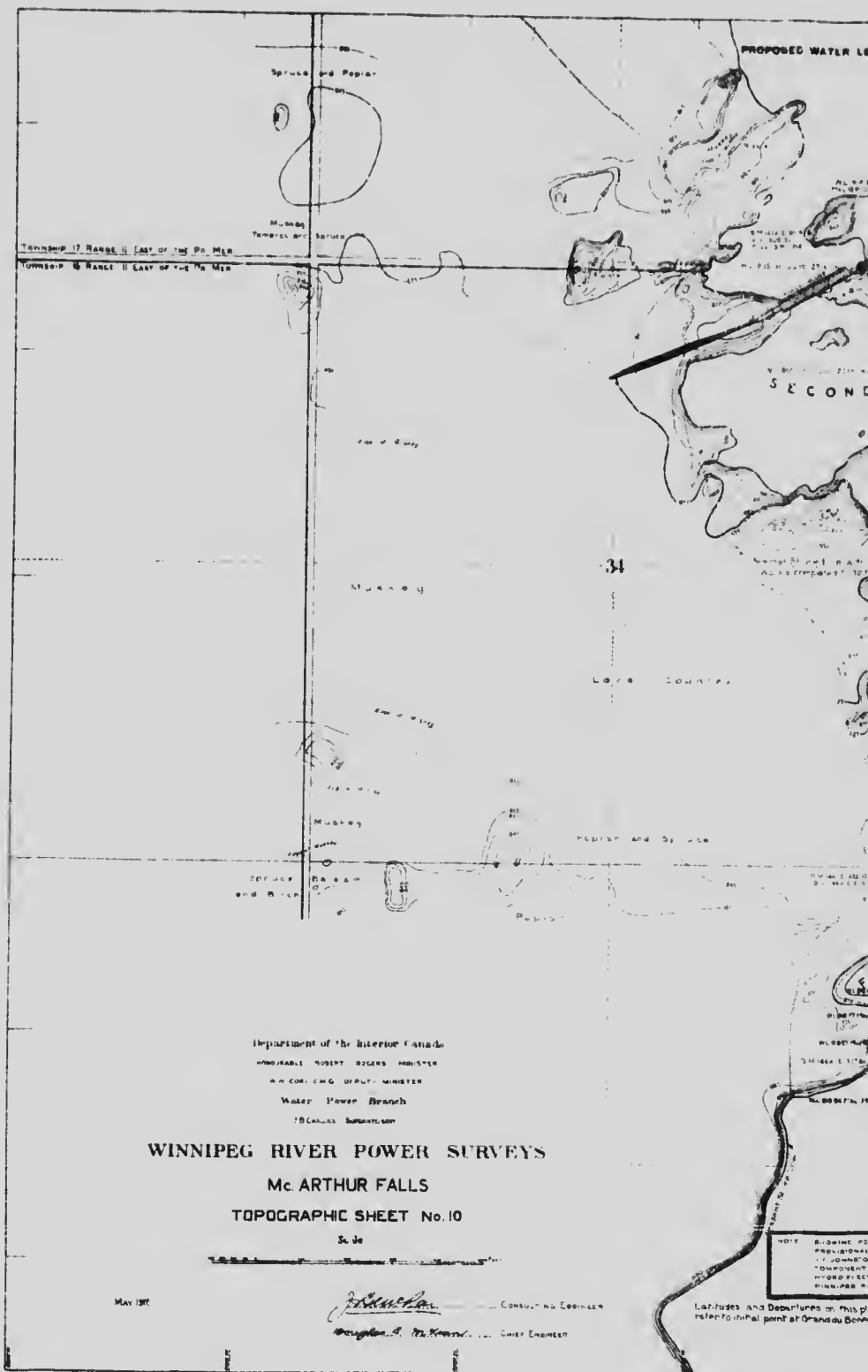


May 1922

J. H. Macdonald CONSULTING ENGINEER

J. P. Macdonald CHIEF ENGINEER

Departures on this plan
point at Grand de Bonnet Falls



Department of the Interior Canada
 HONORABLE ROBERT ROGERS MINISTER
 H. H. COLEMAN DEPUTY MINISTER
 Water Power Branch
 10 CANADA BUILDING

WINNIPEG RIVER POWER SURVEYS
Mc ARTHUR FALLS
TOPOGRAPHIC SHEET No. 10

Scale



MAY 1917

J. H. ... CONSULTING ENGINEER
W. ... CHIEF ENGINEER

NOTE: BOUNDING COORDINATES
 PROVISIONAL
 FOR THE
 PURPOSES OF
 THE
 SURVEY
 ONLY

Latitudes and Departures on this plan refer to initial point at Grandby Bend

PROPOSED WATER LEVEL 808.0'



PROPOSED WATER LEVEL 827

MARTHUR FALLS

LAC

DU

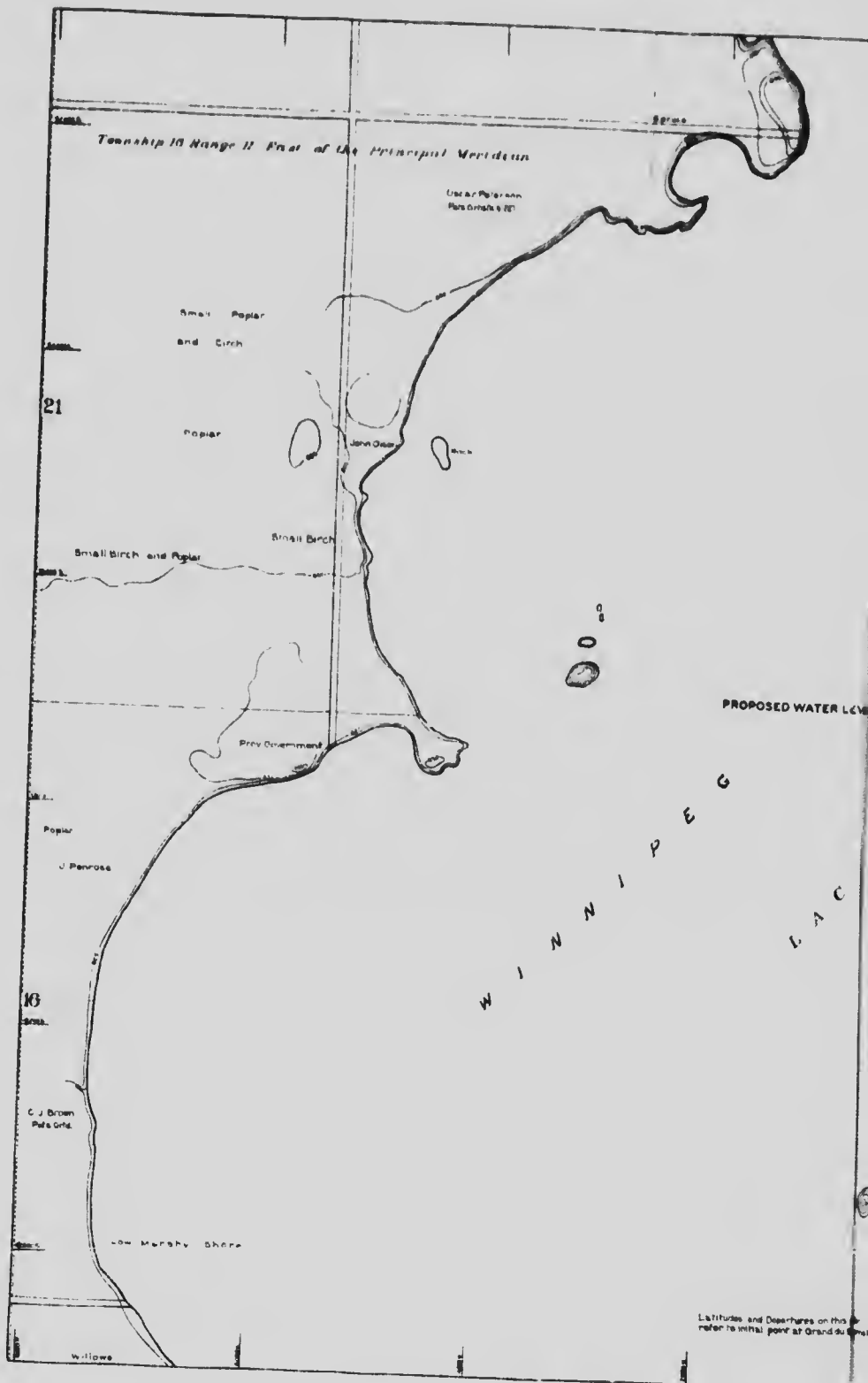
BONNET

Showing power concentration & provisional layout proposed by the Commission & C.E.M.R. as a tentative line in a complete hydroelectric system for the Granddu Bonnet Falls in Manitoba.

Contours on this plan are at Granddu Bonnet Falls

W.L. 808.0' April 2nd 1952
 W.L. 827.0' April 6th 1952
 W.L. 828.0' June 28th 1951

Map 115M and 87a



RIVER

BONNET

DU

WATER LEVEL 27

LAC



Scale

Department of the Interior Canada
HONORABLE JOSEPH WILSON
MINISTER
W. W. DODD C.E.D. DEPUTY MINISTER
WATER POWER BRANCH
J. B. CHALLES SUPERINTENDENT

WINNIPEG RIVER POWER SURVEYS

LAC DU BONNET

TOPOGRAPHIC SHEET No. II.

Scale



W. W. Dodd CONSULTING ENGINEER

W. W. Dodd Chief Engineer
Shelton S. ... Chief Engineer

OCTOBER 1913

... on this ...
... Grand Du Bonnet Falls

John ...
P.O. ...

15

24

Small Birch and Poplar

Common Land
74

District Land
75

1000 ...

1000 ...



13

19

Township 10 Range 10 East of the Principal Meridian

12

-13-

Township 10 Range 11 East of the Principal Meridian

Paper

Baker

Vance

Department of the Interior Canada
 BUREAU OF GEOLOGICAL SURVEYS
 WATER POWER BRANCH
 1910

WINNIPEG RIVER POWER SURVEYS LAC DU BONNET TOPOGRAPHIC SHEET N°12

Scale



Vertical Scale
 1 inch = 100 feet
 Horizontal Scale
 1 inch = 1 mile

1.0 inch = 100 feet
 1.0 inch = 1 mile

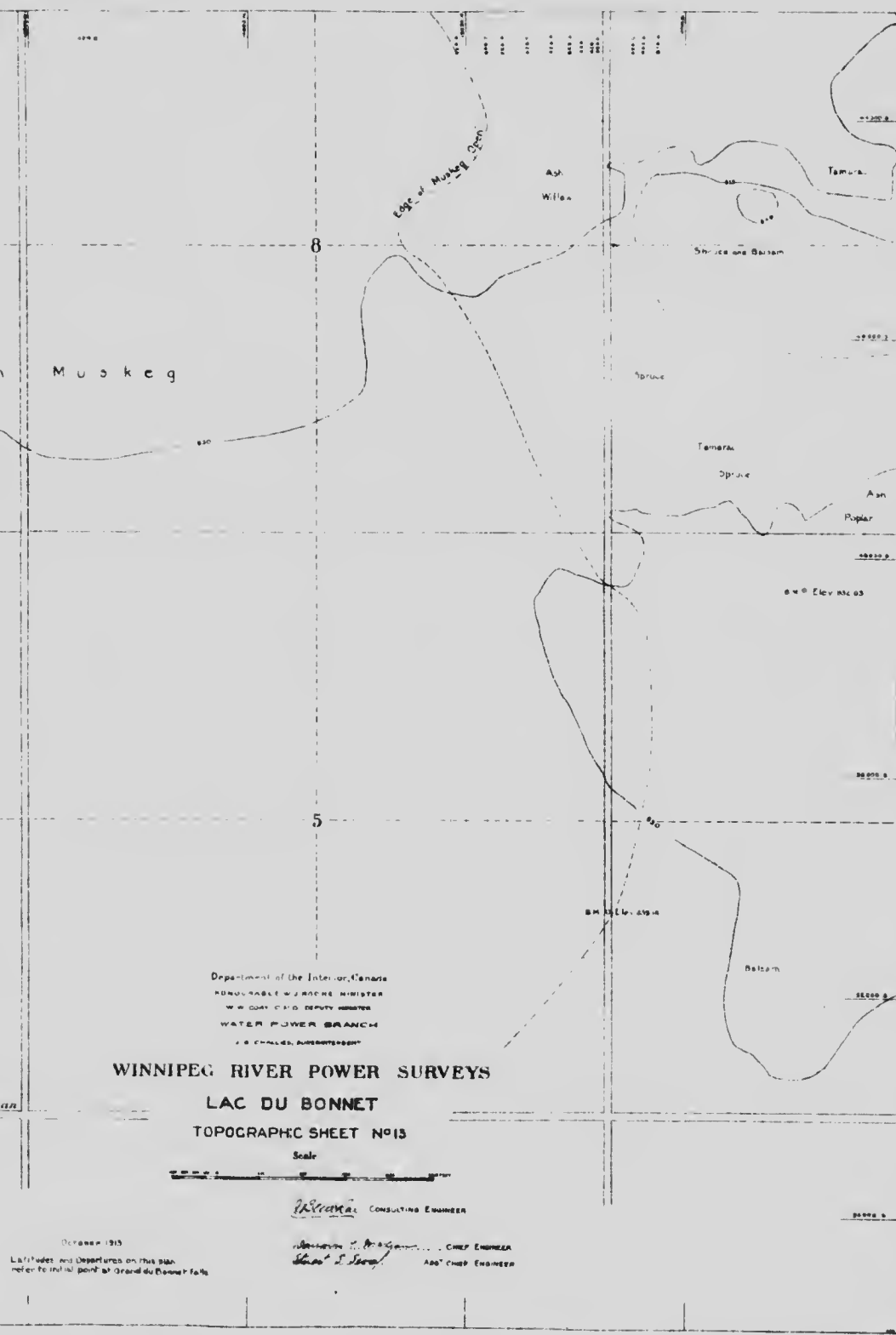


17

1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
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1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
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1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

1000.0

Edge of Muskeg Lake



Department of the Interior, Canada
 HONOURABLE JUSTICE MINISTER
 W. R. COY, C.M.G. DEPUTY MINISTER
 WATER POWER BRANCH
 J. B. CHALLES, ASSISTANT ENGINEER

WINNIPEG RIVER POWER SURVEYS
LAC DU BONNET
TOPOGRAPHIC SHEET NO 13

Scale



W. Challes CONSULTING ENGINEER

W. Challes CHIEF ENGINEER
W. Challes ASST. CHIEF ENGINEER

October 1915

All notes and descriptions on this plan refer to initial point at Grand du Bonnet Falls

Department of the Interior Canada
HONOURABLE J. ROBEY MINISTER
W. J. CORY C.M.S. DEPUTY MINISTER
WATER POWER BRANCH
J. B. CHALLES, SUPERINTENDENT

WINNIPEG RIVER POWER SURVEYS

LAC DU BONNET TOPOGRAPHIC SHEET No. 14.

Scale



W. J. Cory
UNASSISTED ENGINEER ROAD
*W. J. Cory & Arthur
Sheel & Son* CHART ENGINEER
AND CHART SURVEYOR

Granite Bank

Small Poplar

Bechee Land
(unass. Bechee) II

PROPOSED WATER LEVEL 827

OCTOBER 19-5

5147.4
W.L. 817.0
Top Station

W I N N I P E G
L A C
R I V E R
D U
B O N N E T

2 Birch (Small)

Township 16 Range 11 East of the Principal Meridian

Township 15 Range 11 East of the Principal Meridian

J. B. Morgan
Asst. Surveyor

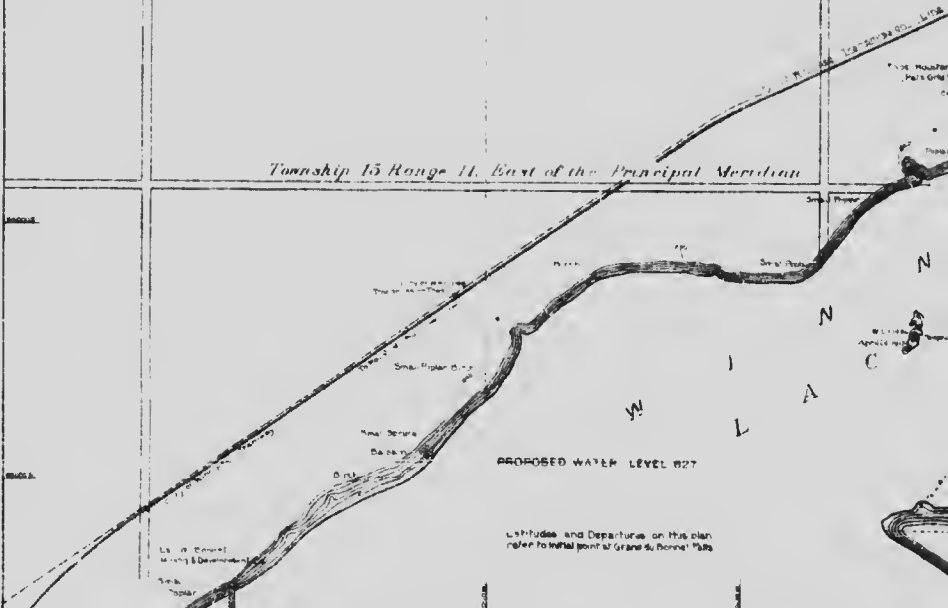
Departures on this plan
point at Grand Island Falls

D. G. 10

33

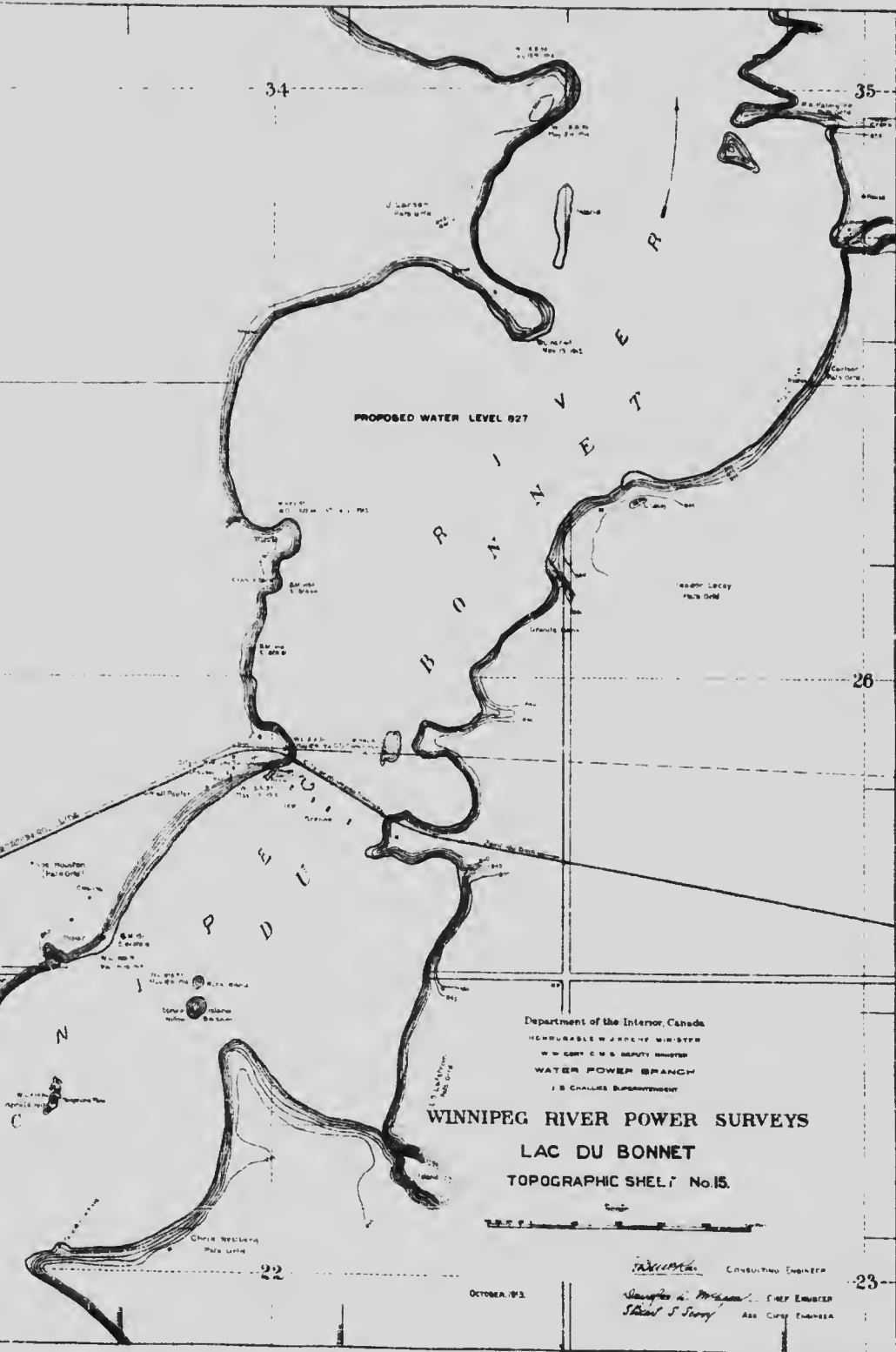
28

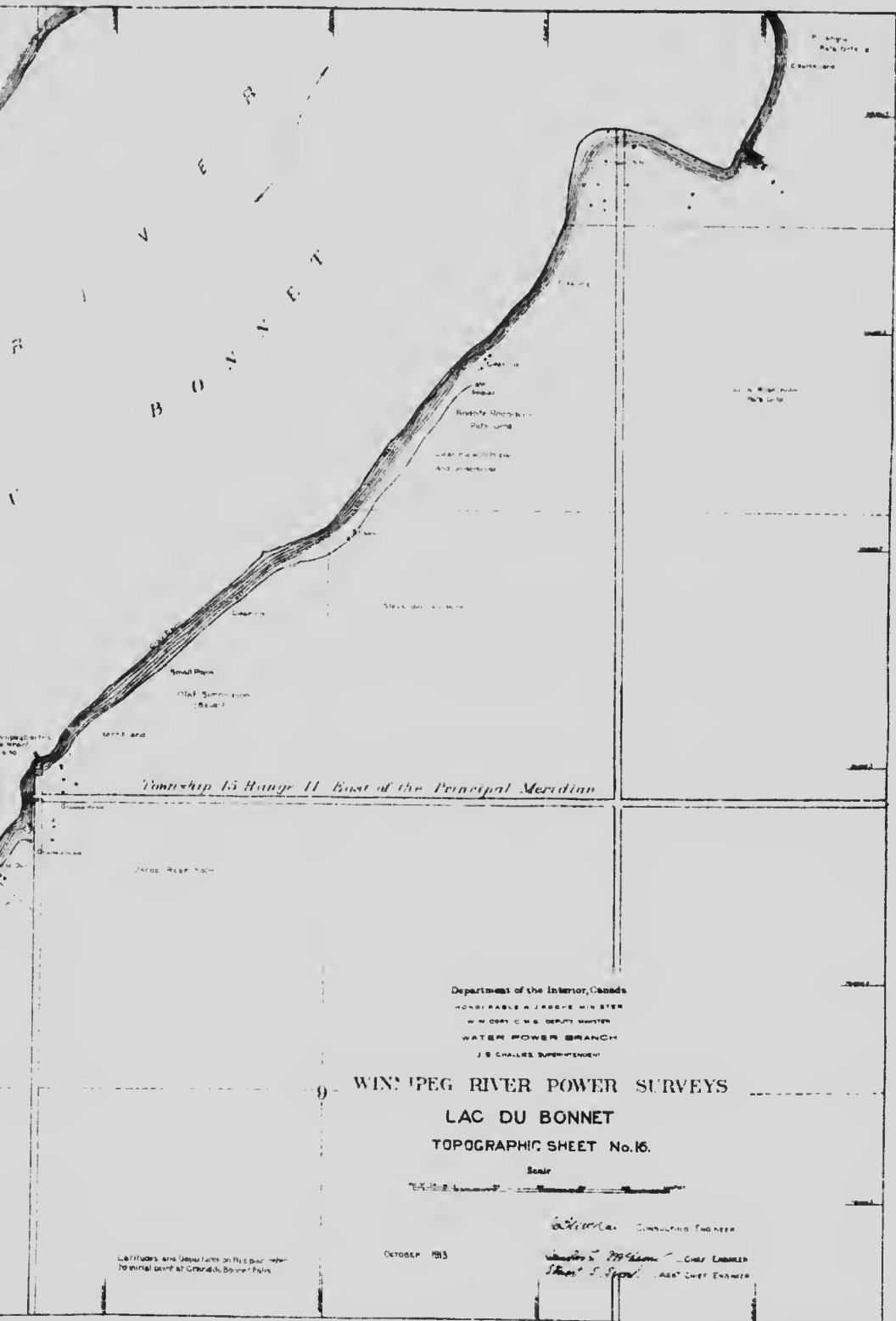
Township 15 Range 11, East of the Principal Meridian



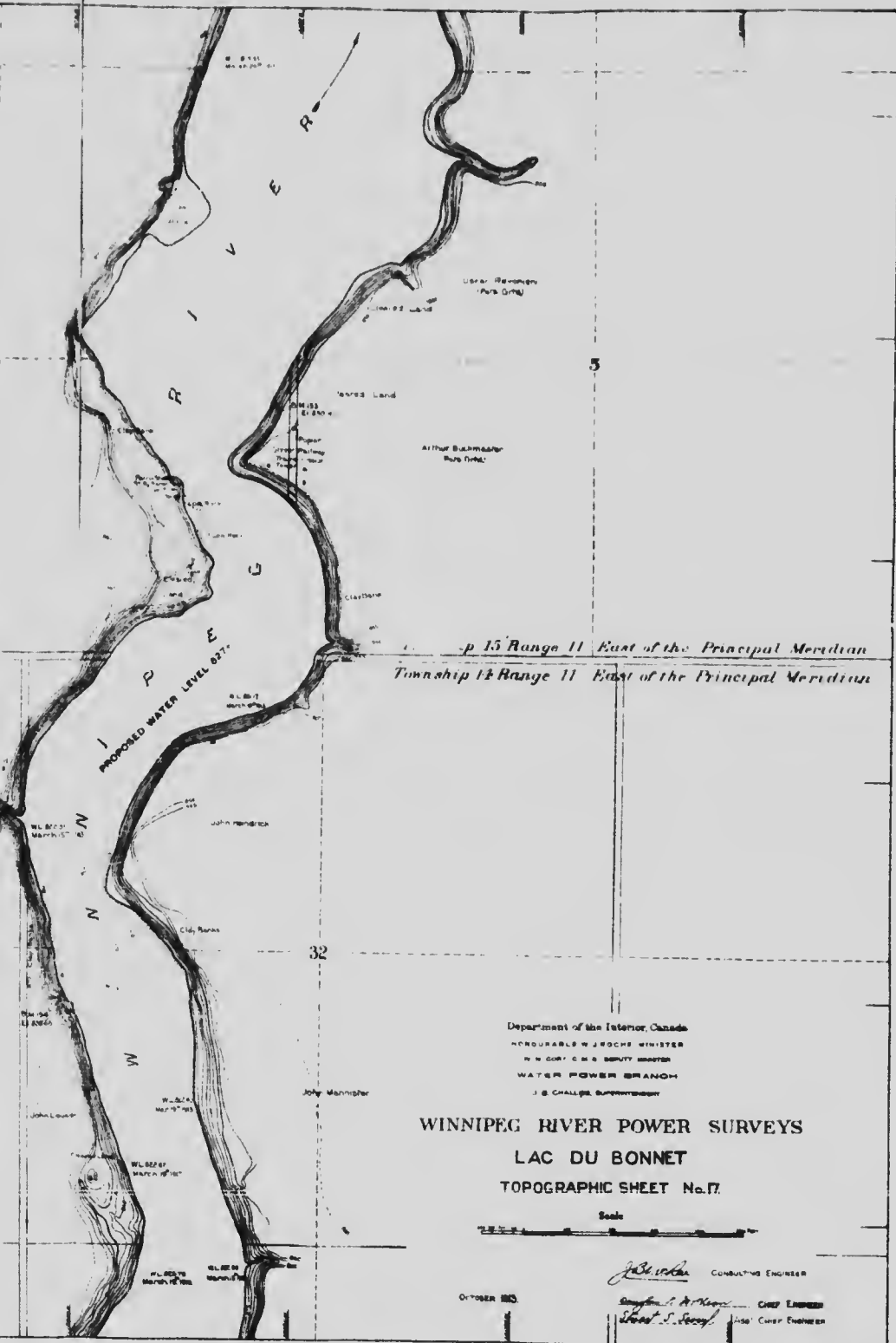
PROPOSED WATER LEVEL 827

Bearings and Distances on this plan refer to initial point of Grand du Bonnet 1898









...p 15 Range 11 East of the Principal Meridian
 Township 14 Range 11 East of the Principal Meridian

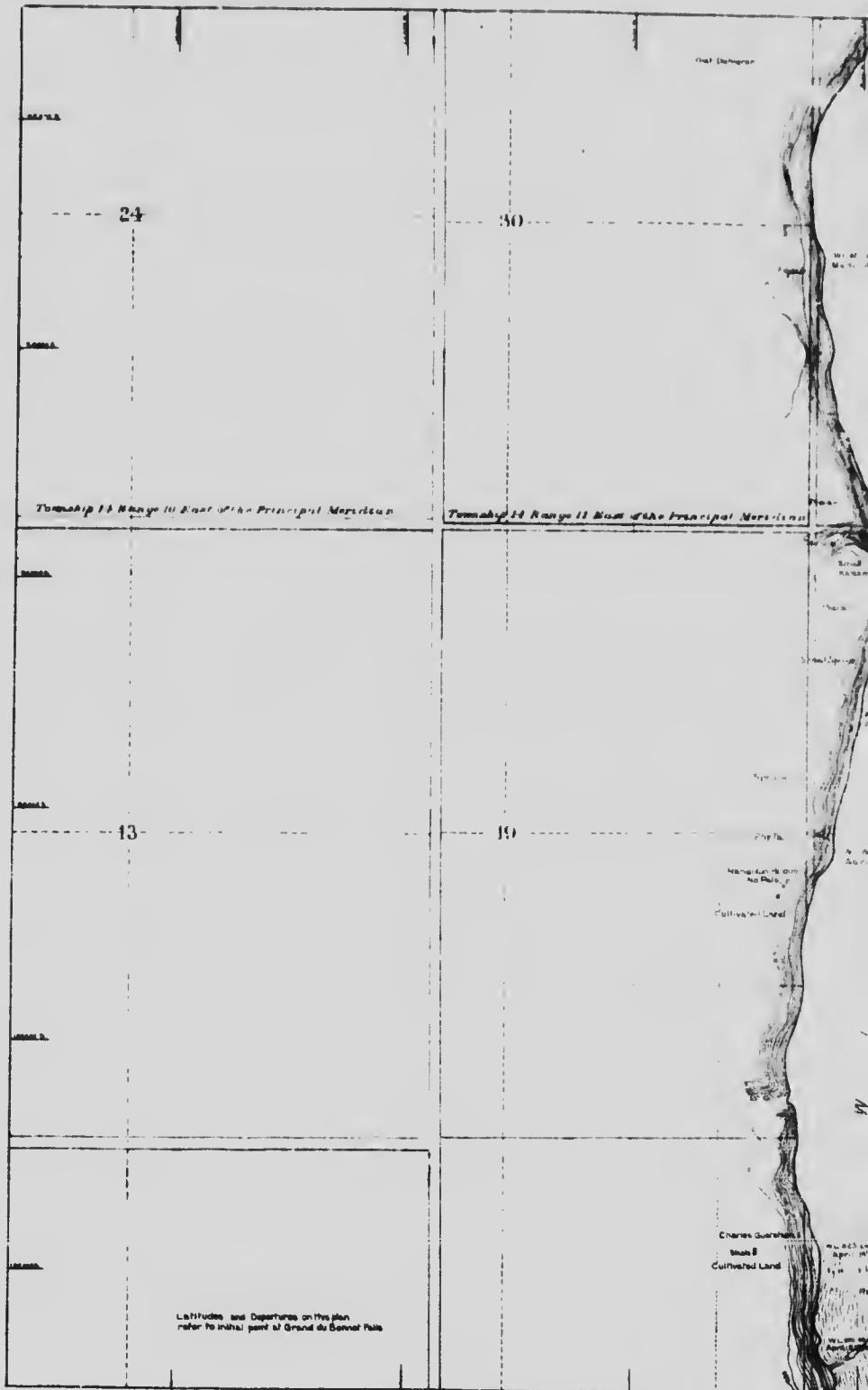
Department of the Interior, Canada
 HONOURABLE W. JOCKE MINISTER
 W. W. GORT, C.M.G. DEPUTY MINISTER
 WATER POWER BRANCH
 J. B. CHALLICE, SUPERINTENDENT

WINNIPEG RIVER POWER SURVEYS
 LAC DU BONNET
 TOPOGRAPHIC SHEET No. 17.

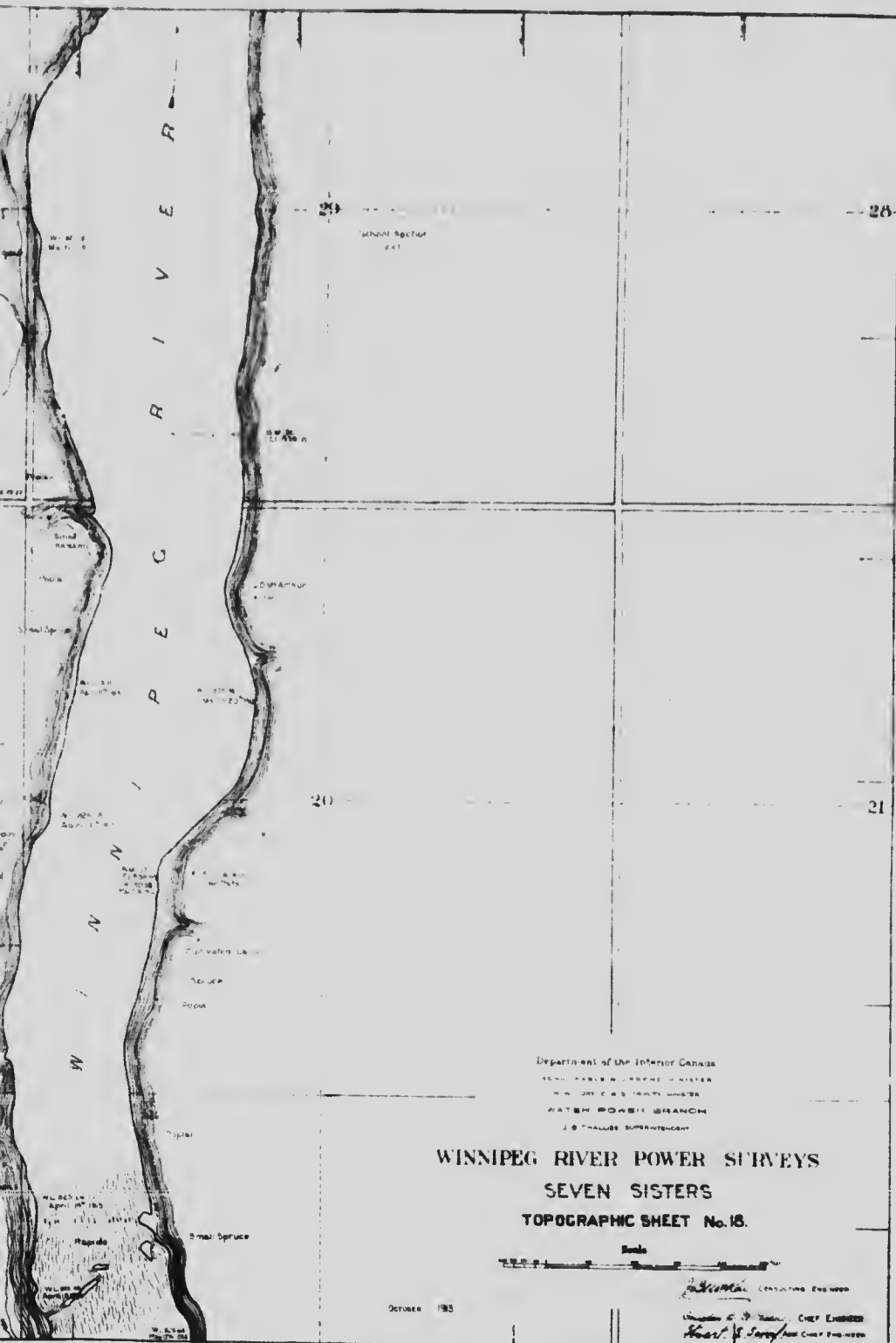


J. B. Challice CONSULTING ENGINEER
Stephen A. Moore CHIEF ENGINEER
Robert S. Seely ASST. CHIEF ENGINEER

OCTOBER 1915



Latitudes and Departures on this plan
 refer to initial point of Grand de Sarrat Falls



W I N N I P E G R I V E R

24

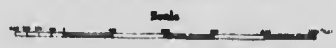
25

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21

Department of the Interior Canada
 1500 - 1505 - 1510 - 1515 - 1520
 WATER POWER BRANCH
 J. B. THALUS SUPERINTENDENT

**WINNIPEG RIVER POWER SURVEYS
 SEVEN SISTERS
 TOPOGRAPHIC SHEET No. 18.**



October 1913

W. J. ... Consulting Engineer
W. J. ... Chief Engineer
W. J. ... Asst. Chief Engineer

12

- 10 -



10000

10000

10000

Township 14 Range 11 East of the Principal Meridian

Township 14 Range 11 East of the Principal Meridian

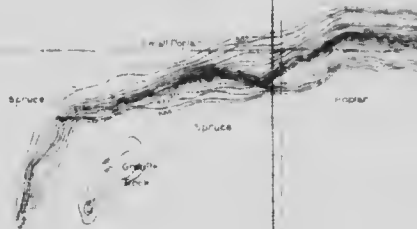
13 10

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36

6



Latitude and
refer to initial

17

16

Department of the Interior
 Geological Survey
 WATER POWER SURVEYS
 J. B. LINDSEY SUPERVISOR

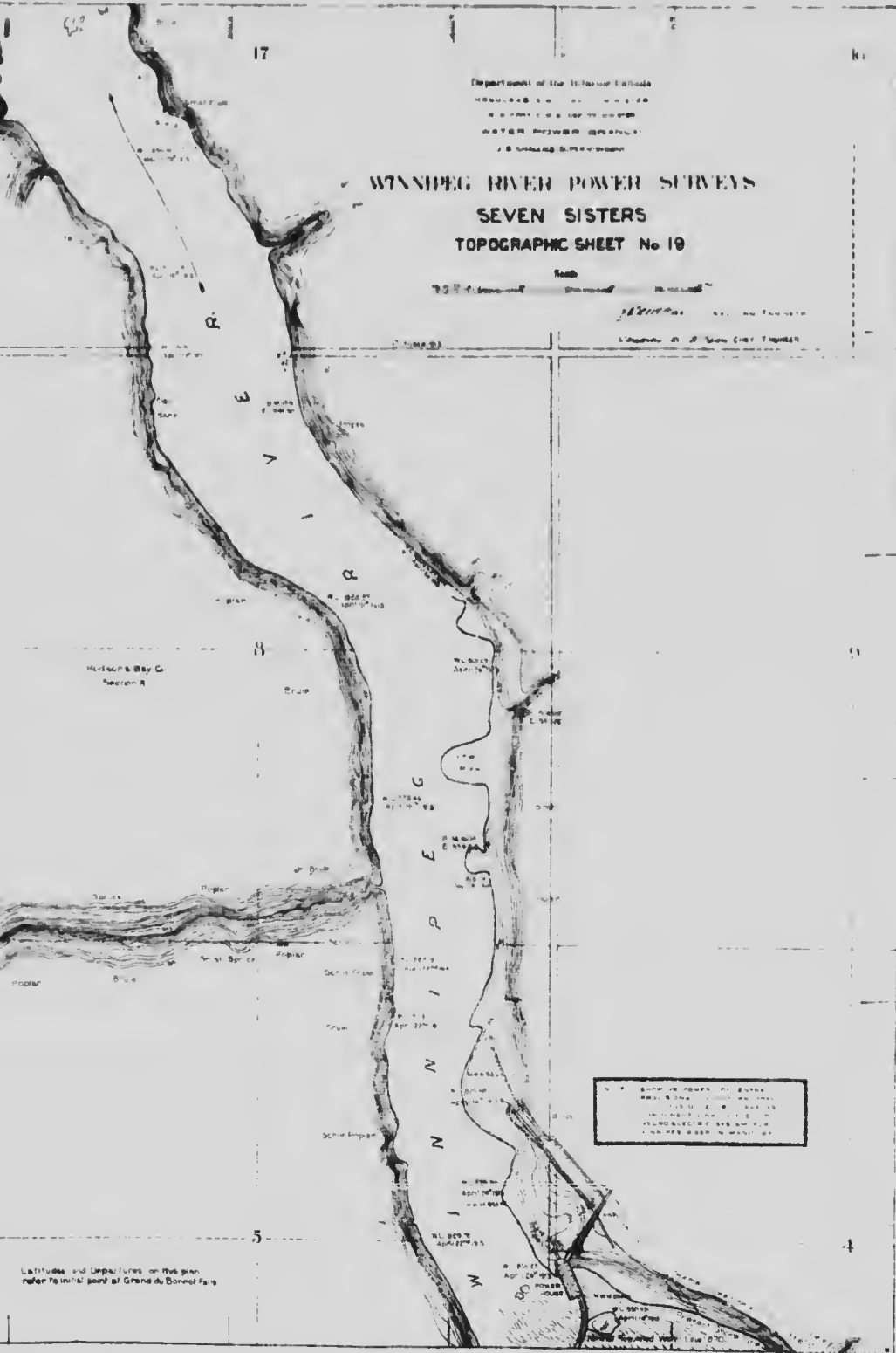
WINNEPEG RIVER POWER SURVEYS
 SEVEN SISTERS
 TOPOGRAPHIC SHEET No 19

Scale

1:25,000
 1 inch = 2000 feet

REVISED BY J. B. LINDSEY
 1910

Checked by J. B. LINDSEY



• SHOWS POWER SURVEYS
 AND OTHER SURVEYS
 MADE BY THE GEOLOGICAL SURVEY
 OF CANADA IN 1909 AND 1910
 AND BY THE CANADIAN PACIFIC
 RAILWAY COMPANY IN 1909

Latitudes and Departures on this plan refer to initial point at Grand A. Bonnet Falls



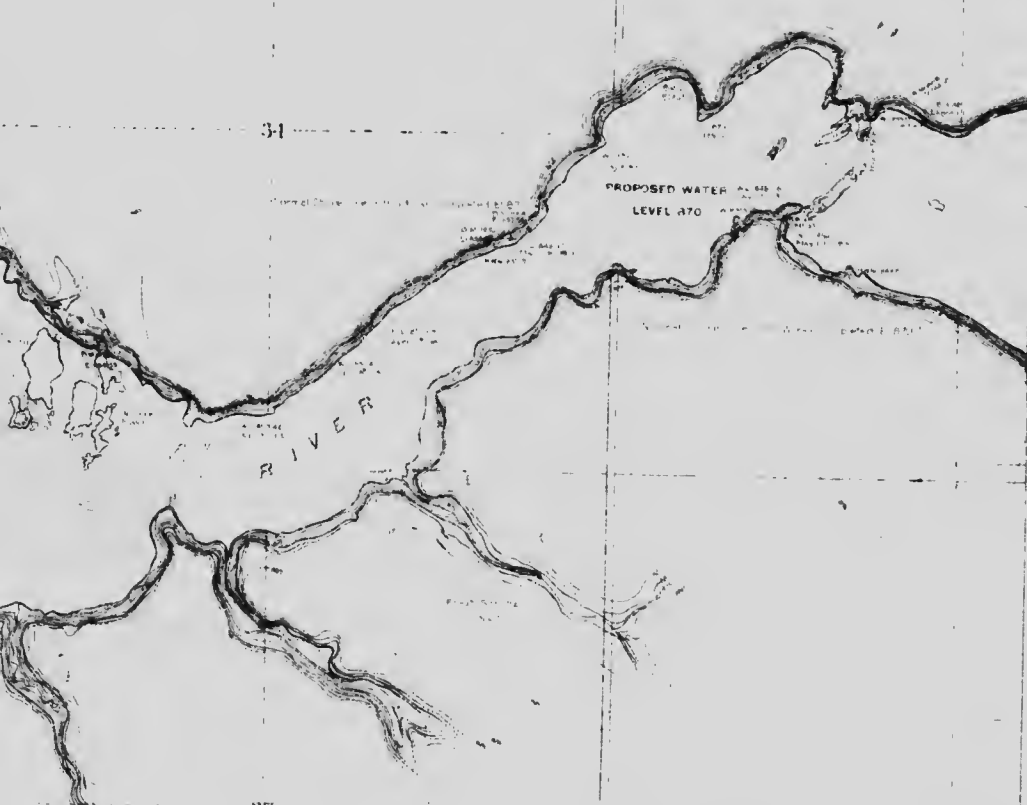
Township 18 Range 73

PROPOSED WATER LEVEL 870

WHITE MOUND RIVER

NOT TO BE USED FOR ANY PURPOSES WITHOUT THE PERMISSION OF THE U.S. GEOLOGICAL SURVEY

For further information on this plan refer to the plan of Grand Coulee Falls



31

PROPOSED WATER DAM
LEVEL 170

WINNIPEG
RIVER

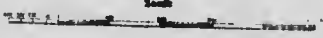
27

26

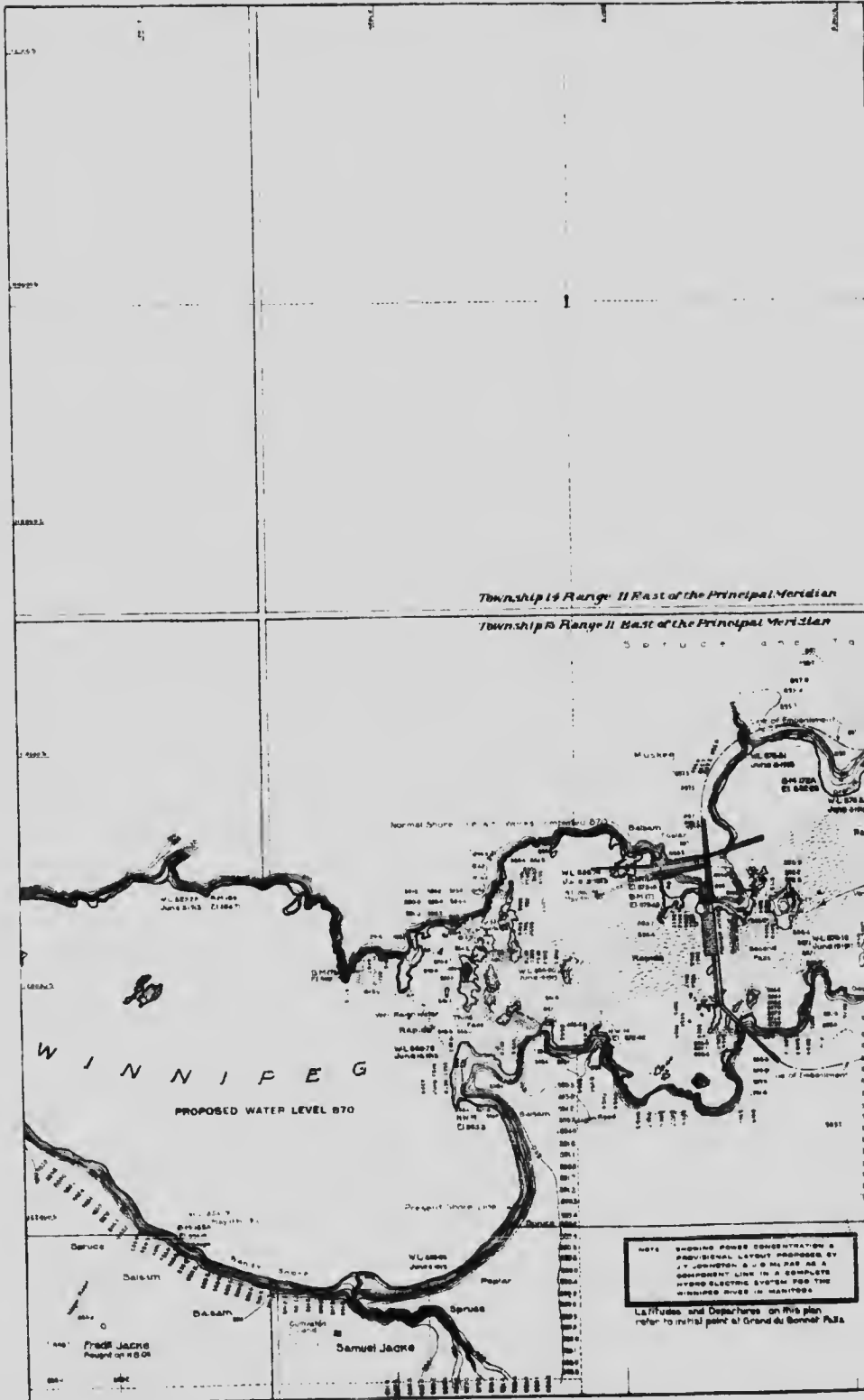
Department of the Interior, Canada
 HONOURABLE ROBERT M. STORIE
 MINISTER OF THE INTERIOR
 WATER POWER BRANCH
 L. B. CHAPMAN, SUPERINTENDENT

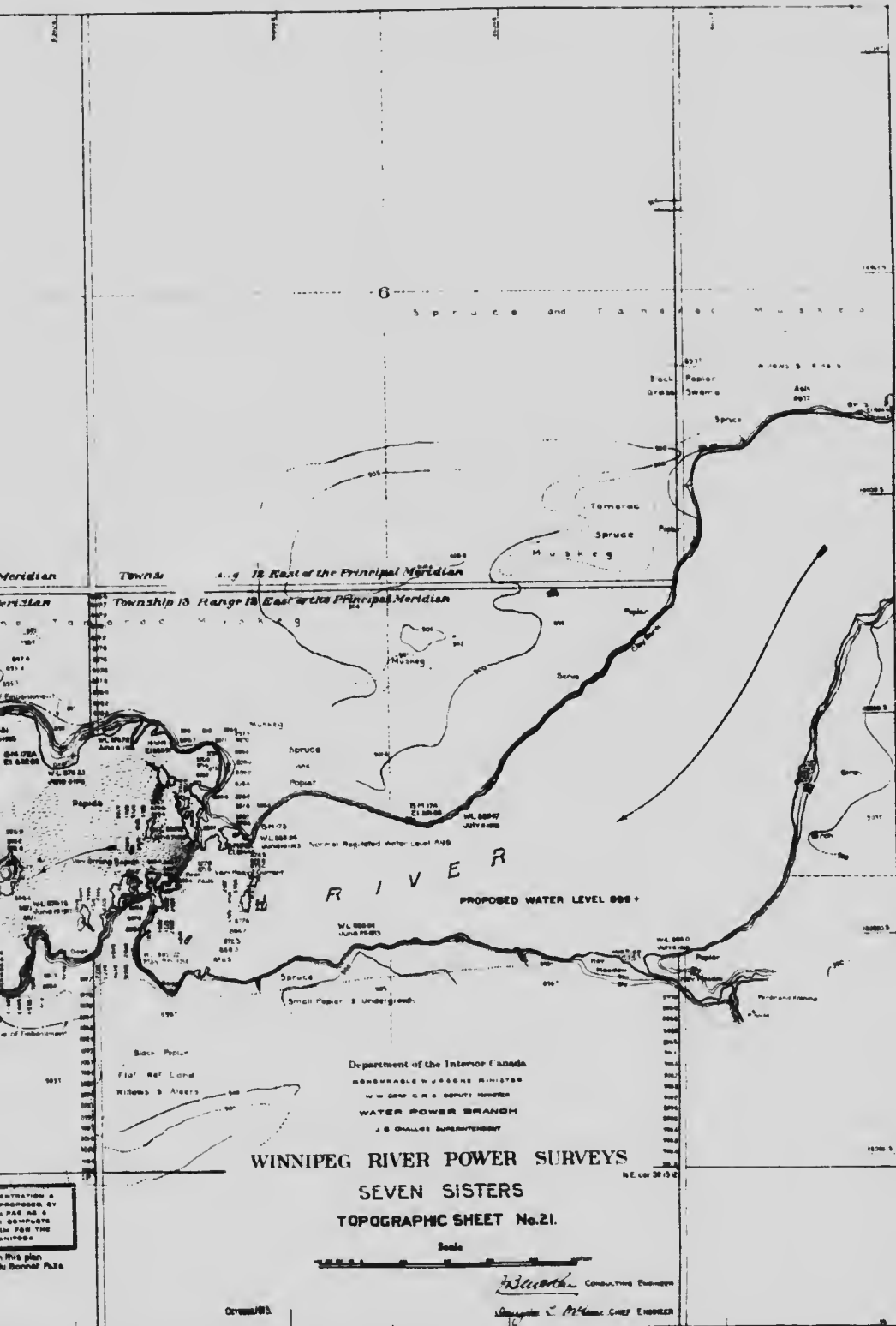
**WINNIPEG RIVER POWER SURVEYS
 SEVEN SISTERS
 TOPOGRAPHIC SHEET No. 20.**

Scale



W. H. ... ENGINEER
George F. P. ... CHIEF ENGINEER

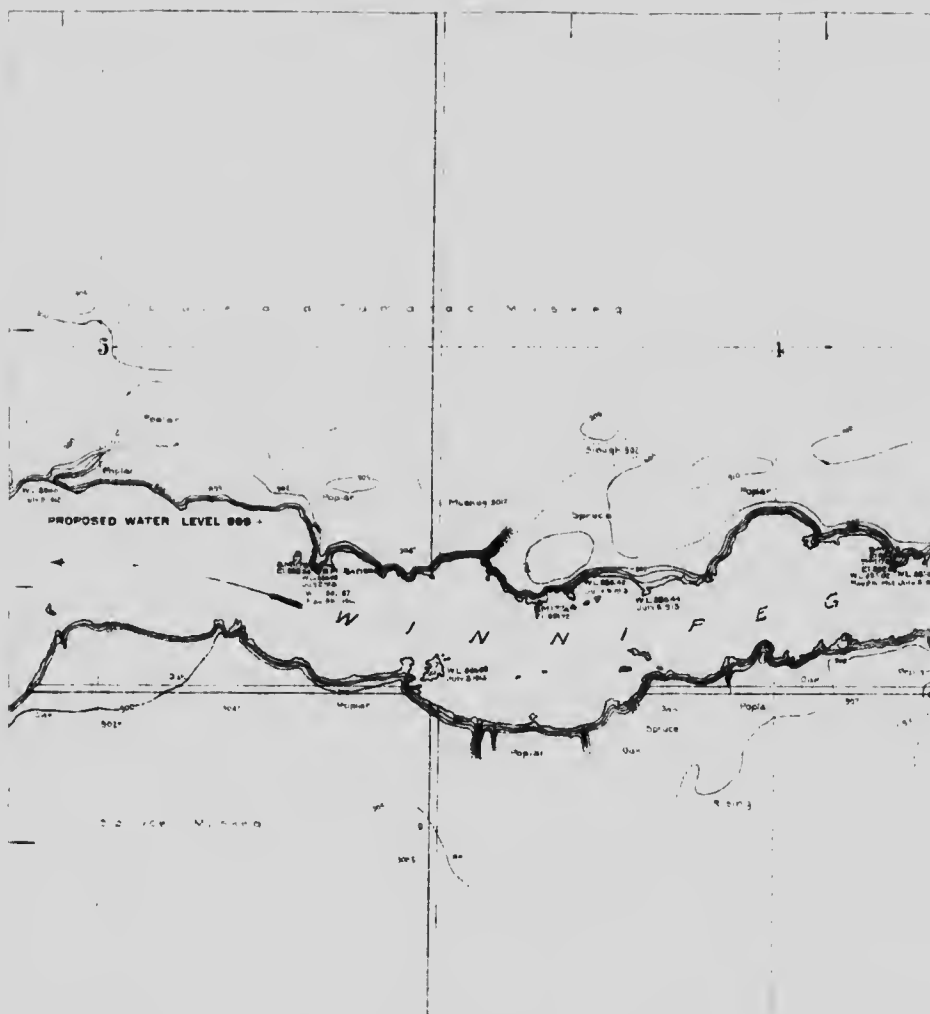




EXTRACT FROM A PROPOSED BY-LAW AS PASSED BY THE COUNCIL OF THE DISTRICT OF SEVEN SISTERS IN 1910 FOR THE PROTECTION OF THE WATERSHED

THIS PLAN IS A BOUNDARY PLAN

1910



32

33

Department of the Interior, Canada
 ONE THOUSAND AND FORTY-NINE METERS
 NEW COMMISSIONER GENERAL
 WATER POWER BRANCH
 J. B. CHALLEN, SUPERVISOR

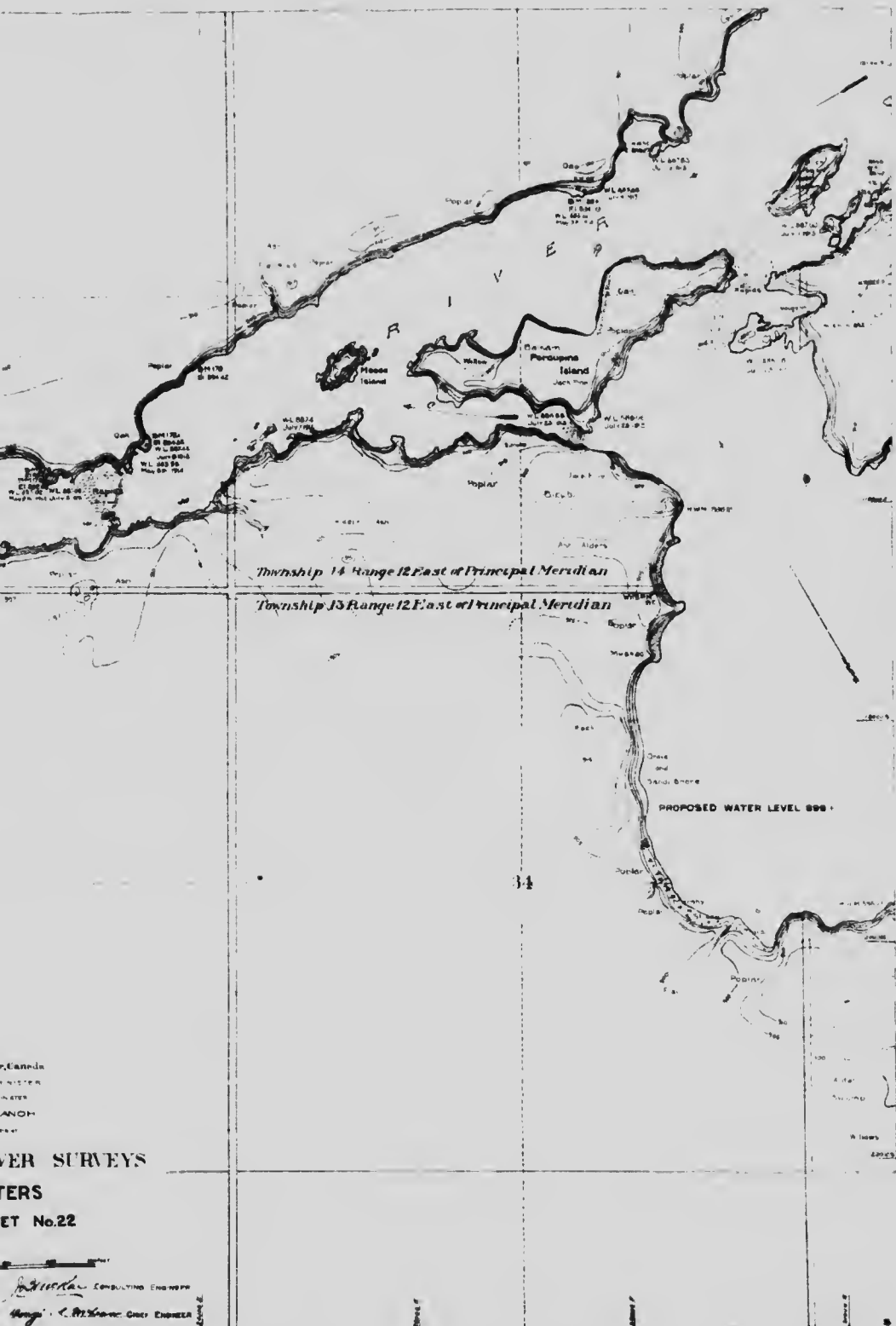
WINNIPEG RIVER POWER SURVEY
 SEVEN SISTERS
 TOPOGRAPHIC SHEET No. 22



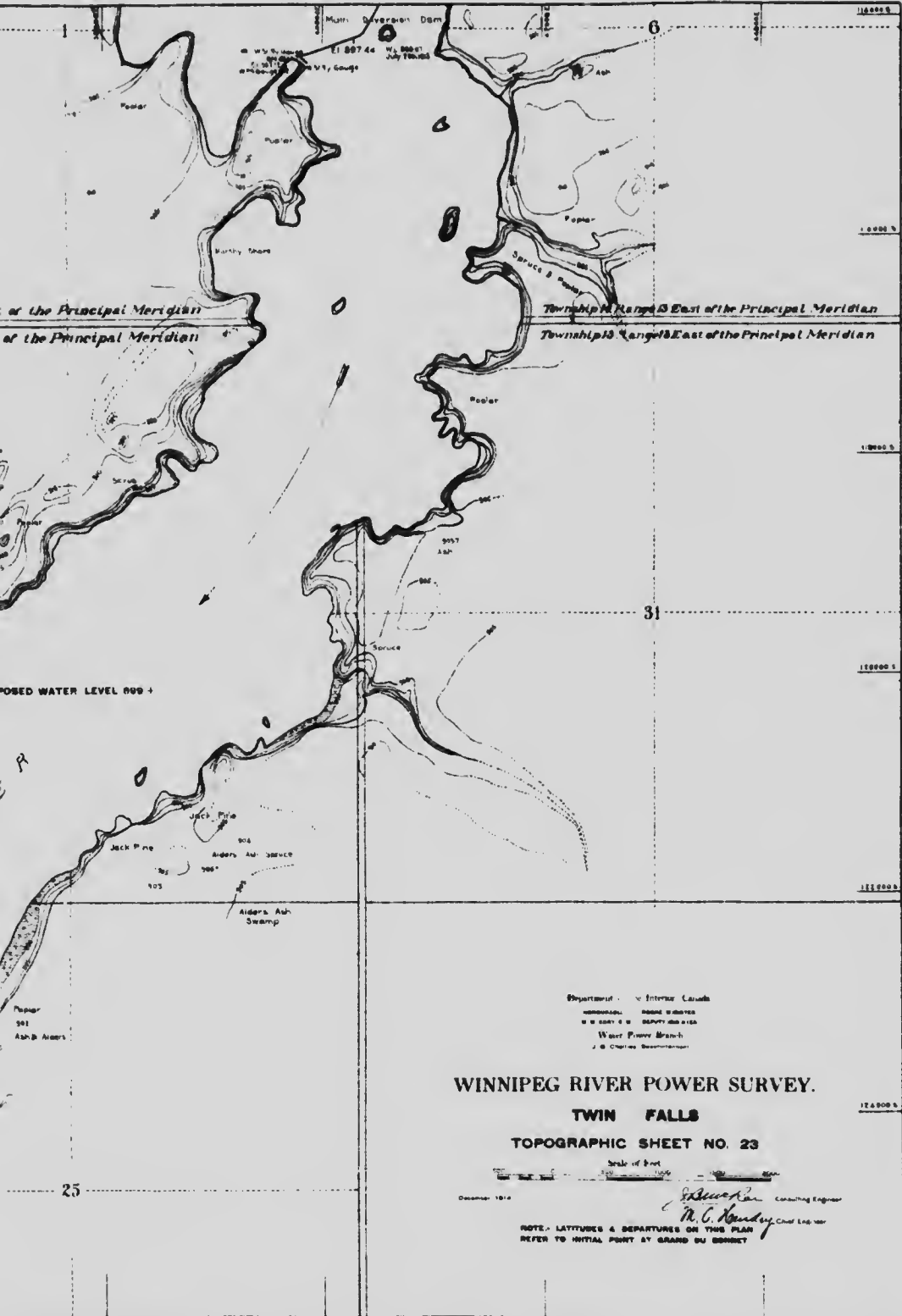
Latitudes and Depressions on this plan refer to datum point at Grand and Genesee Falls

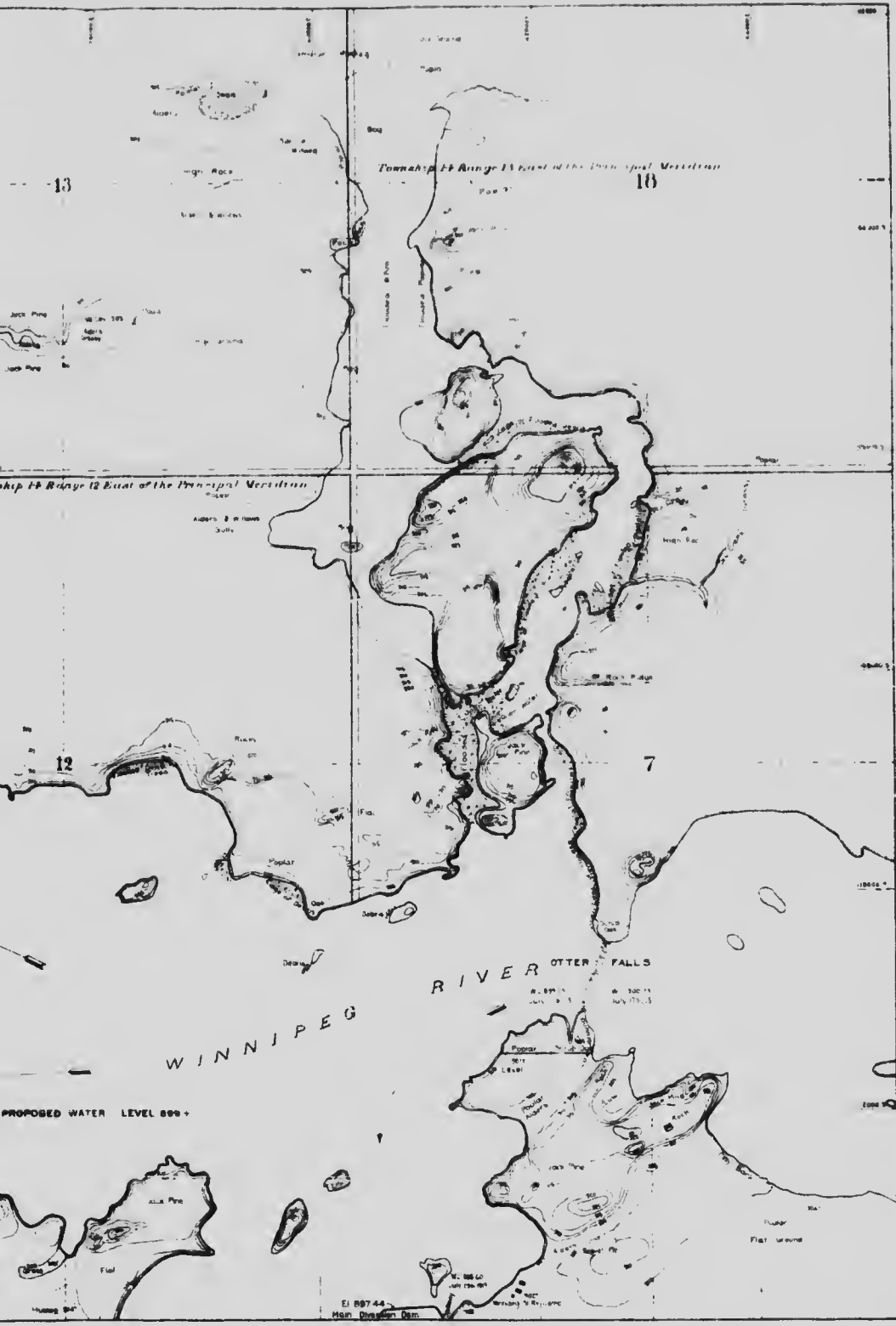
December 1903

Geo. J. Smith
 Assoc. Chief Engineer
Wm. L. R.









<p>26</p>	<p>25</p>
<p>23</p>	<p>21</p> <p>Township 21</p>

Department of the Interior Canada
Geological Survey of Canada
Water Power Branch
Ottawa, Ontario

WINNIPEG RIVER POWER SURVEY OTTER FALLS

TOPOGRAPHIC SHEET NO. 24 A

Scale 4 Feet



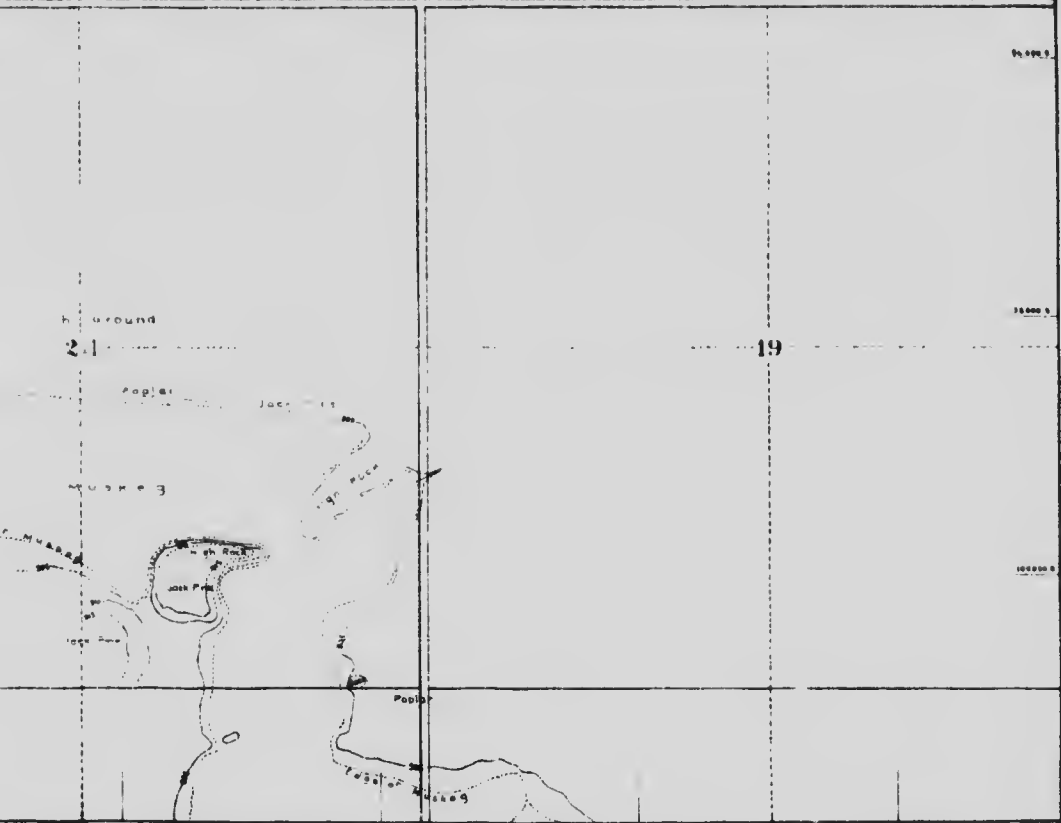
J. S. Macdonald
M. C. Hendry

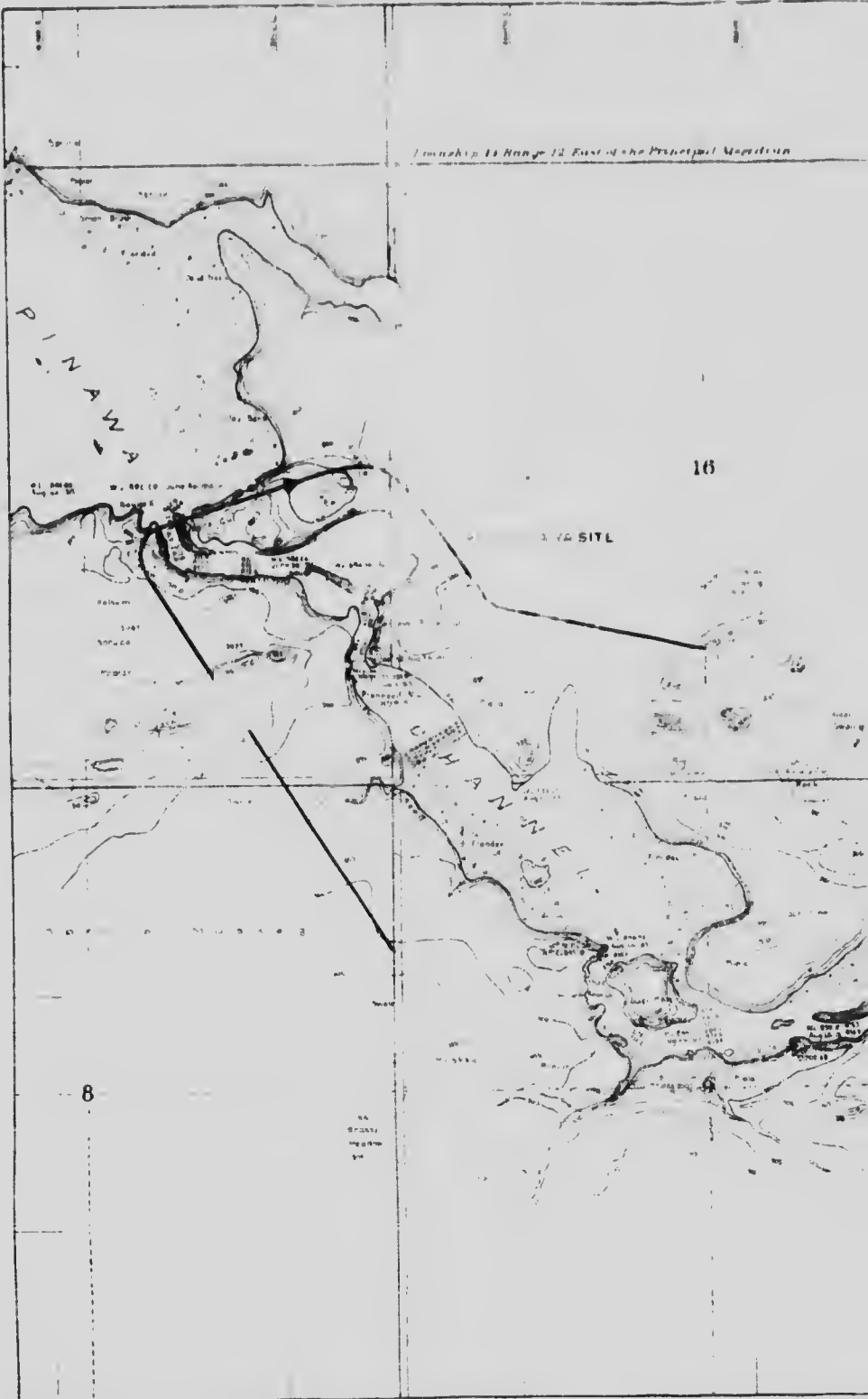
NOTE: LATITUDES & DEPARTURES ON THIS PLAN REFER TO INITIAL POINT AT GRAND DU BONNET FALLS

- 25

Township 11 Range 12 East of the Principal Meridian

Township 14 Range 13 East of the Principal Meridian





P I N A W A

16

K A S I L E

8

16

Department of the Interior, Canada
Geological Survey of Canada
Map of the River
of the Province

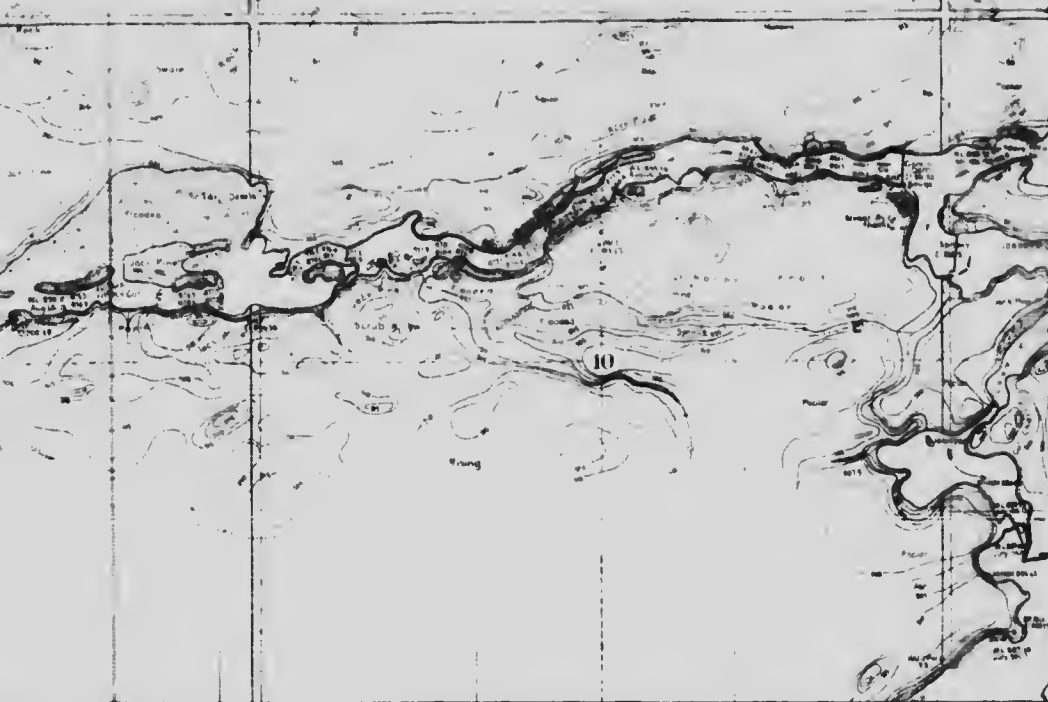
WINNIPEG RIVER POWER SURVEY
PINAWA CHANNEL
TOPOGRAPHIC SHEET NO 28

NOTE: EXCESSIVE WATER CONCENTRATION IN
PINAWA CHANNEL IS INDICATED BY
DOTTED LINE IN 2.5 MILES
FROM PINAWA FALLS TO GRAND
DU BONNET FALLS

W. C. Hardy
R. C. Hardy

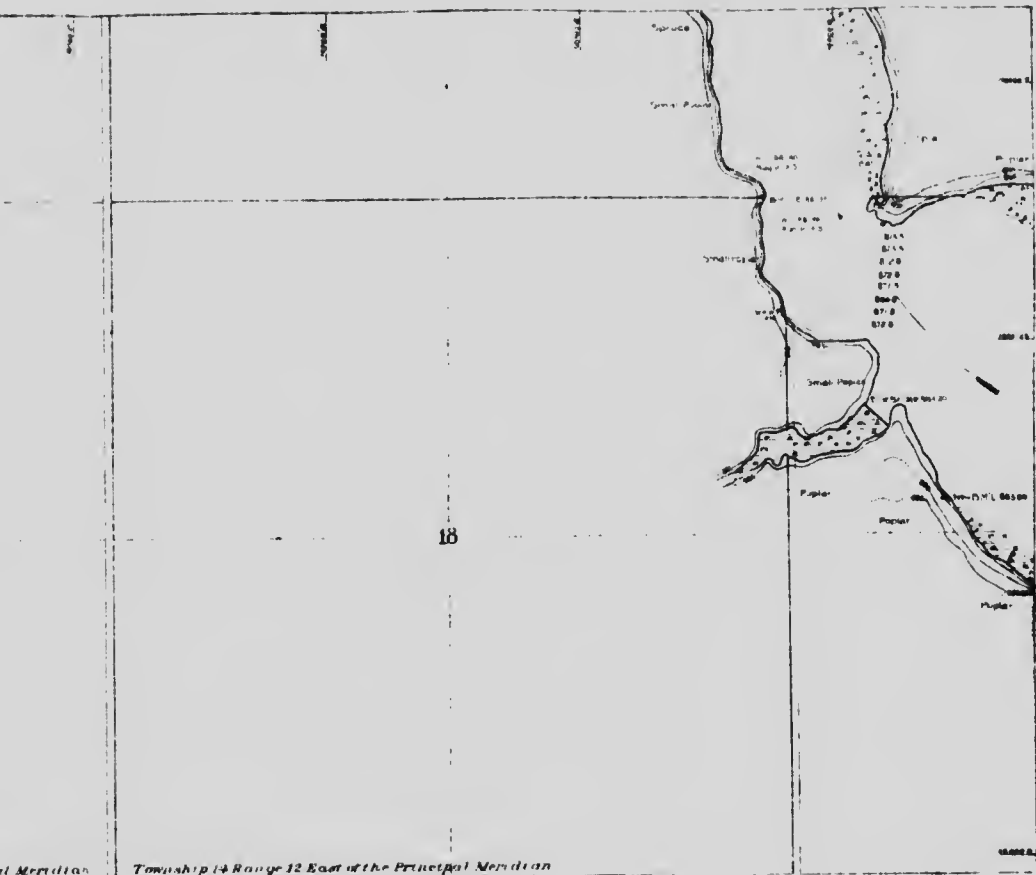
NOTE: LATITUDES & DEPARTURES ON THIS PLAN REFER
TO INITIAL POINT AT GRAND DU BONNET FALLS

15



		13
<i>Township 14 Range 11 East of the Principal Meridian</i>		
		12

Latitudes and Departures on this plan refer to Initial point of Granddoveau 75th



Township 14 Range 12 East of the Principal Meridian

Department of the Interior, Canada
 HONOURABLE J. W. BROWN, MINISTER
 IN CHARGE OF THE DEPARTMENT
 WATER POWER BRANCH
 B. CHARLES, Surveyor-General

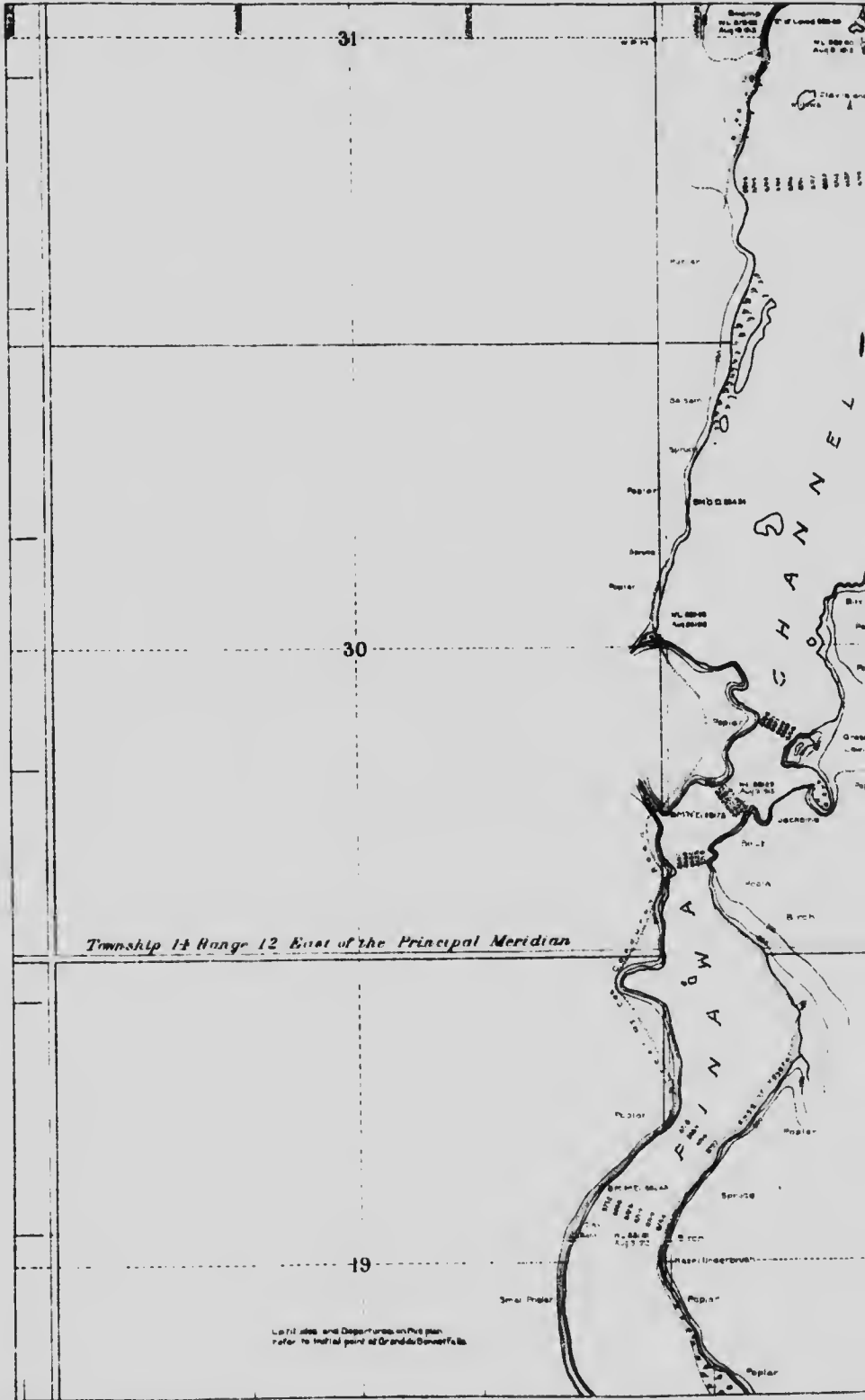
WINNIPEG RIVER POWER SURVEYS
 PINAWA CHANNEL
 TOPOGRAPHIC SHEET No 26

Scale

1:50,000

William DISTRICT ENGINEER
Wm. J. McLean CHIEF ENGINEER
John S. Smith ASSISTANT ENGINEER

October 1913



Township 14 Range 12 East of the Principal Meridian

All areas and Departures on this plan refer to initial point at Grand Falls.



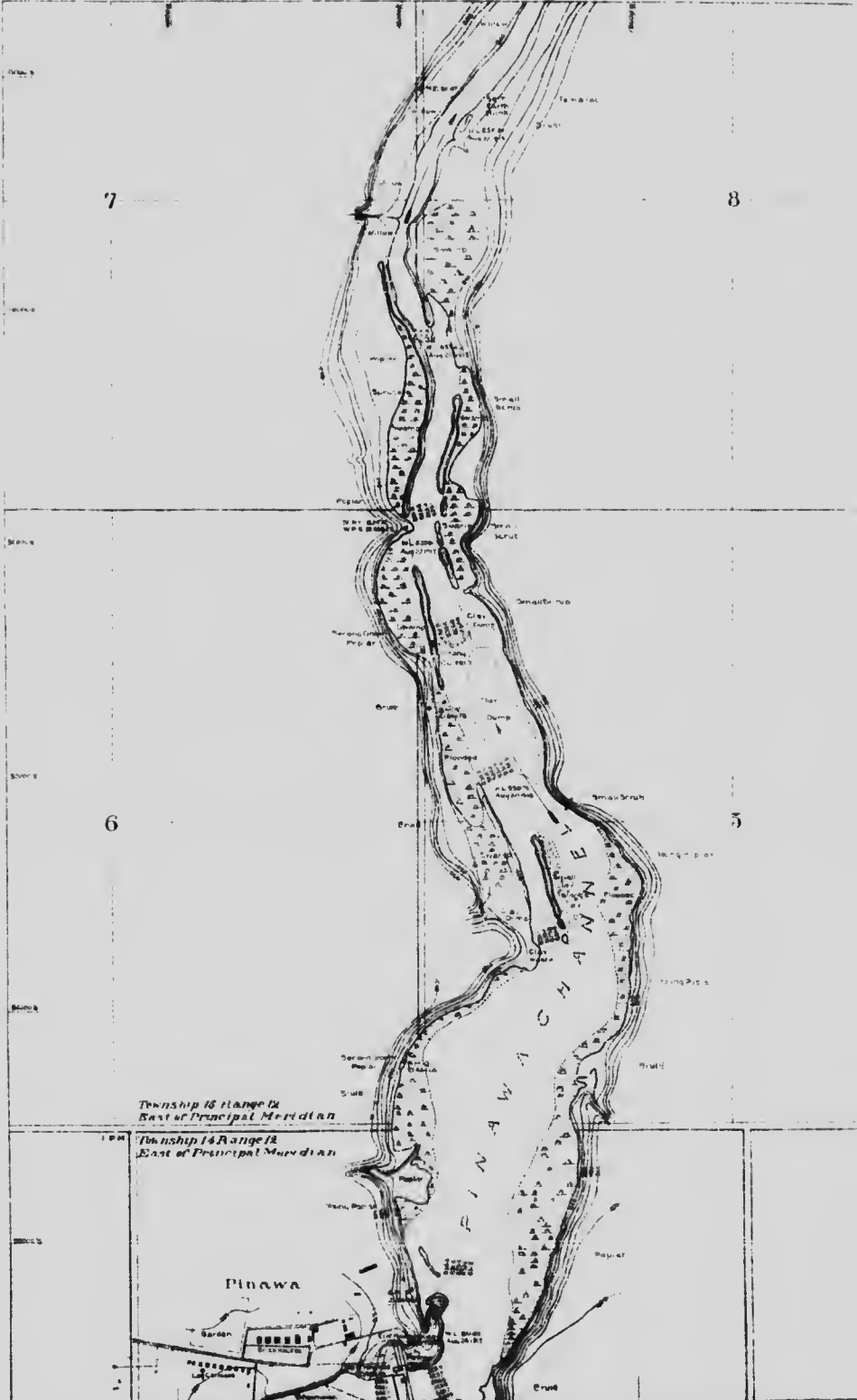
Department of the Interior, Canada
 HONORABLE W. JACQUES MINISTER
 W. W. GORT, C. E. S. DEPUTY MINISTER
 WATER POWER BRANCH
 J. S. CHALLES SUPERINTENDENT

WINNIPEG RIVER POWER SURVEYS
 PINAWA CHANNEL
 TOPOGRAPHIC SHEET No 27



W. J. Challes CONSULTING ENGINEER
Walter C. McManis CHIEF ENGINEER
J. S. Challes ASST. CHIEF ENGINEER

JANUARY 1914



9

4

Department of the Interior Canada
HONOURABLE WILSON MINISTER
W. W. CANNING DEPUTY MINISTER
WATER POWER BRANCH
130 Ottawa, Saskatchewan

WINNIPEG RIVER POWER SURVEYS
PINAWA CHANNEL
TOPOGRAPHIC SHEET No 28

Scale

1:50,000

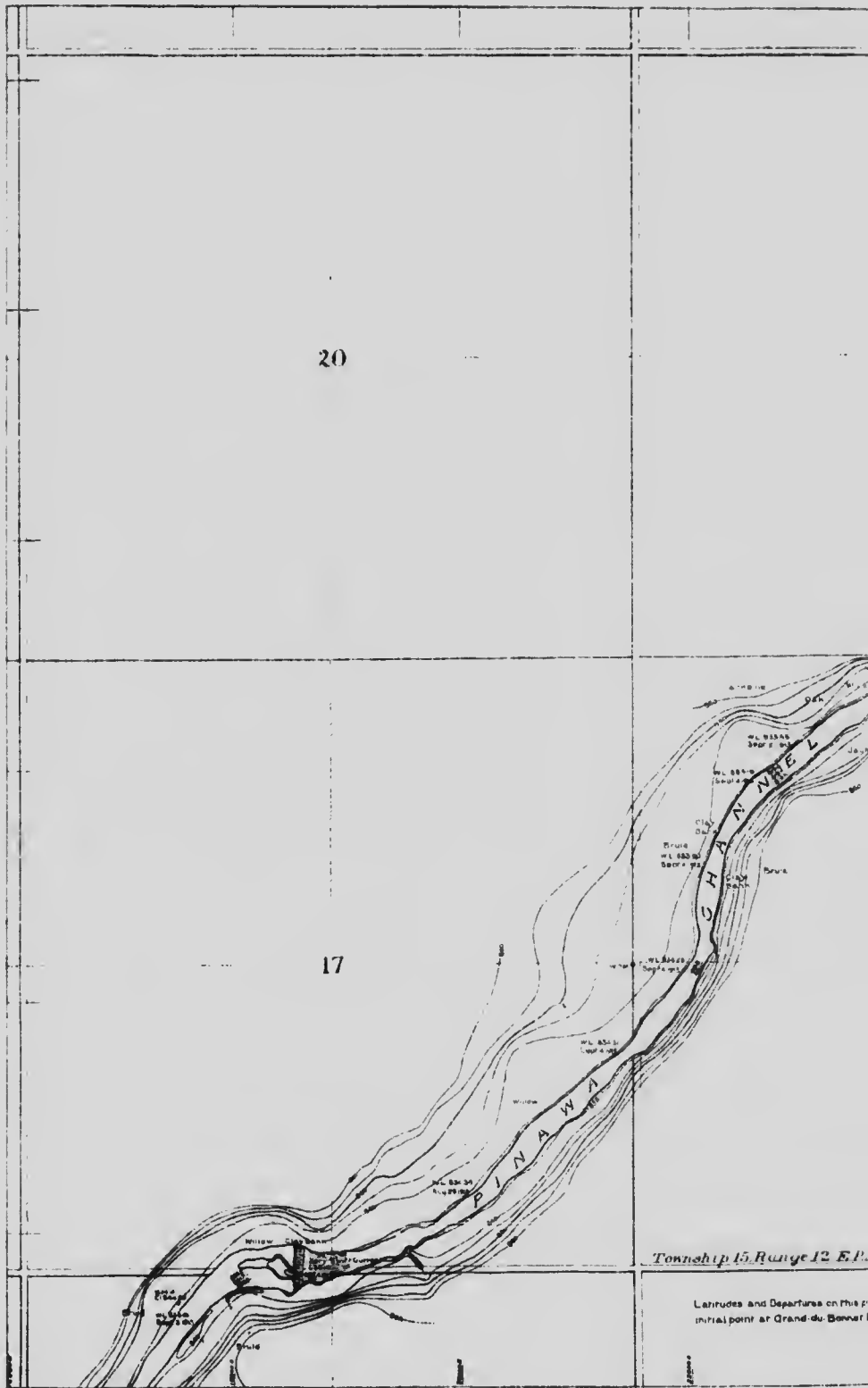
W. W. Canning DEPUTY MINISTER
W. W. Canning DEPUTY MINISTER
W. W. Canning DEPUTY MINISTER

Latitudes and Departures on this plan
refer to initial point at Grande-Barrée Falls

JANUARY 1944

20

17



Township 15 Range 12 E.D.

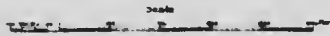
Latitudes and Departures on this p
initial point at Grand-du-Bonnet



Departures on this plan refer to Grand-du-Bonnet Falls

Department of the Interior, Canada
 MINISTERE DES TERRES ET DES MINES
 Water Power Branch
 J. B. C. S. S. S. S.

WINNIPEG RIVER POWER SURVEYS
PINAWA CHANNEL
TOPOGRAPHIC SHEET No 20



J. B. C. S. S. S. S. Consulting Engineer

JANUARY 1914

Walter L. McKean Chief Engineer
 Stuart S. Sorey Asst. Chief Engineer



Small Scale Topographic Survey

Range 18 East of the Principal Meridian
Range 18 East of the Principal Meridian

35

36

26

Department of the Interior, Canada
HONOURABLE H. HENRI HASTEN
MINISTER OF THE INTERIOR
Water Power Branch
Ottawa, Saskatchewan

WINNIPEG RIVER POWER SURVEYS
PINAWA CHANNEL
TOPOGRAPHIC SHEET No 20

Scale

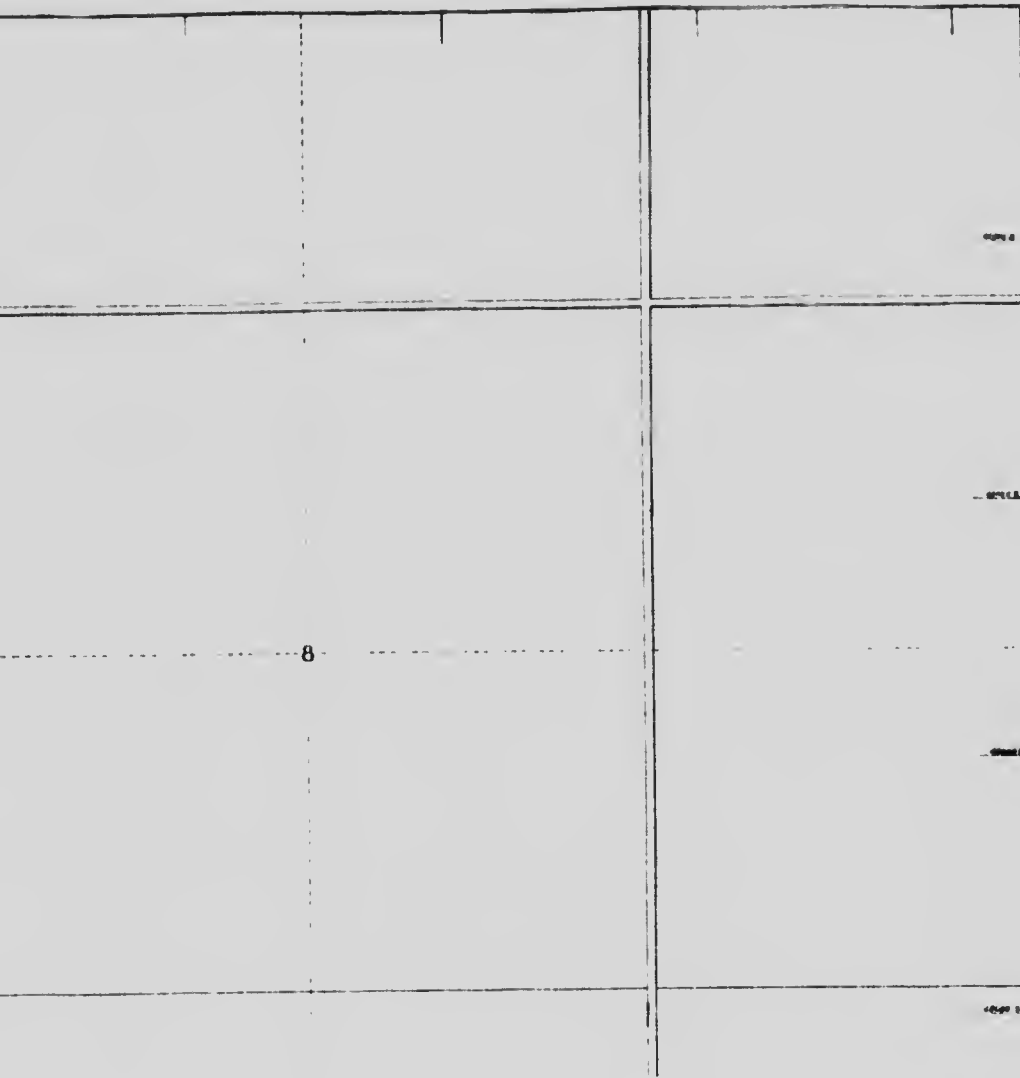


W. H. ... CONSULTING ENGINEER

FEBRUARY 1934

W. H. ... CHIEF ENGINEER
Sheet 20 Survey ASSISTANT CHIEF ENGINEER





Department of the Interior (Canada)

RESPONSIBLE MINISTER

MINISTER OF THE INTERIOR

Water Power Branch

1000-1000

WINNIPEG RIVER POWER SURVEYS

PINAWA CHANNEL

TOPOGRAPHIC SHEET No 31

Scale

~~1 inch = 1 mile~~

A. S. [Signature] Consulting Engineer

FEBRUARY 1914

Wm. C. [Signature] Chief Engineer
John S. [Signature] Asst. Chief Engineer

and Deposition in this plan refer to
 map of Grand du Bonnet Falls

15

Township 16 Range 18 East of the

10

Latitude and Longitude on this plan refers
initial point - Grand-du-Bonnet Falls

Department of the Interior, Canada.

HONOURABLE W. J. BROWN, MINISTER

AND DEPUTY MINISTERS

Water Power Branch

J. B. GARDNER, Superintendent

WINNIPEG RIVER POWER SURVEYS

PINAWA CHANNEL

TOPOGRAPHIC SHEET No 32

Scale



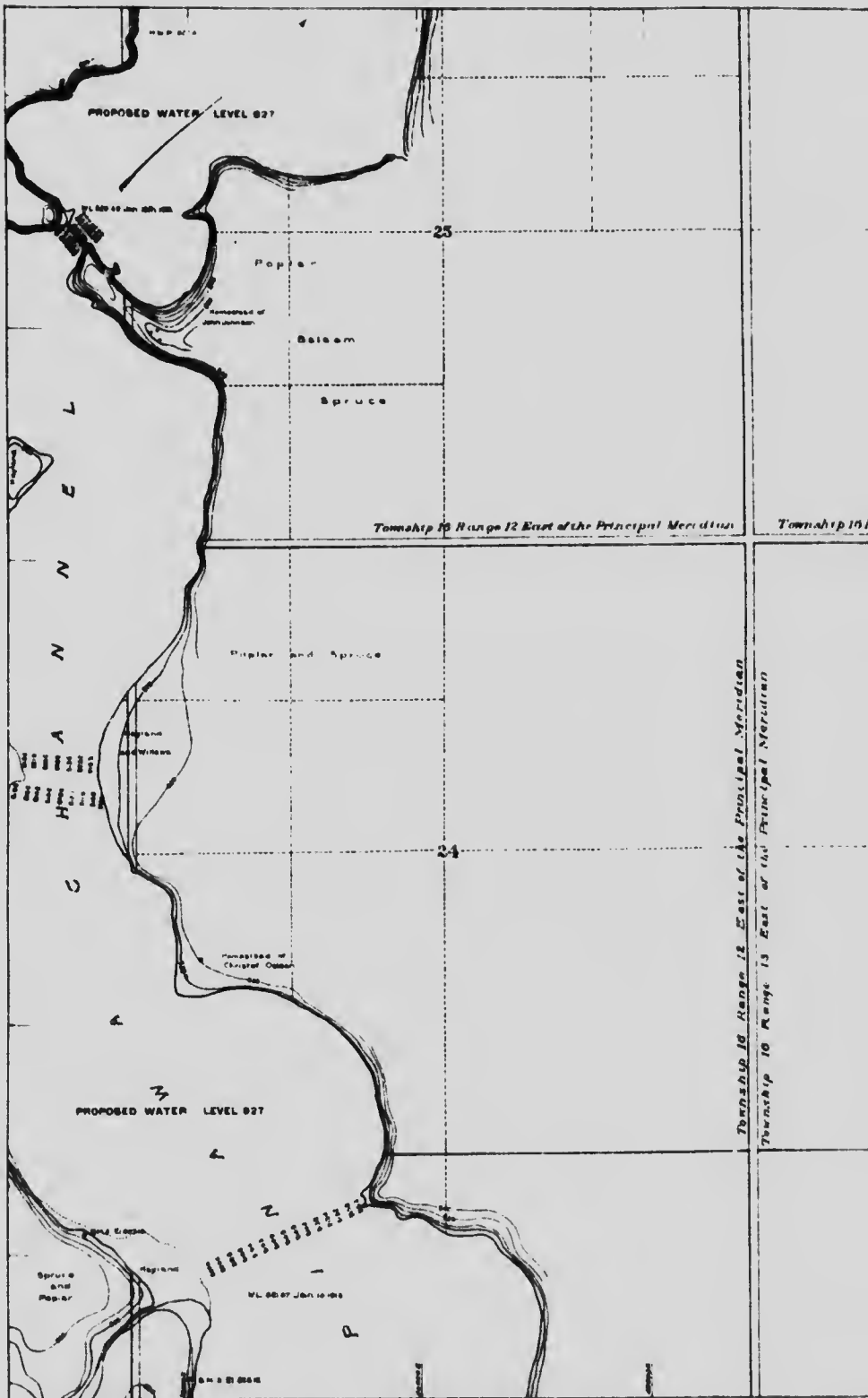
W. J. Brown CONSULTING ENGINEER

FEBRUARY 1914

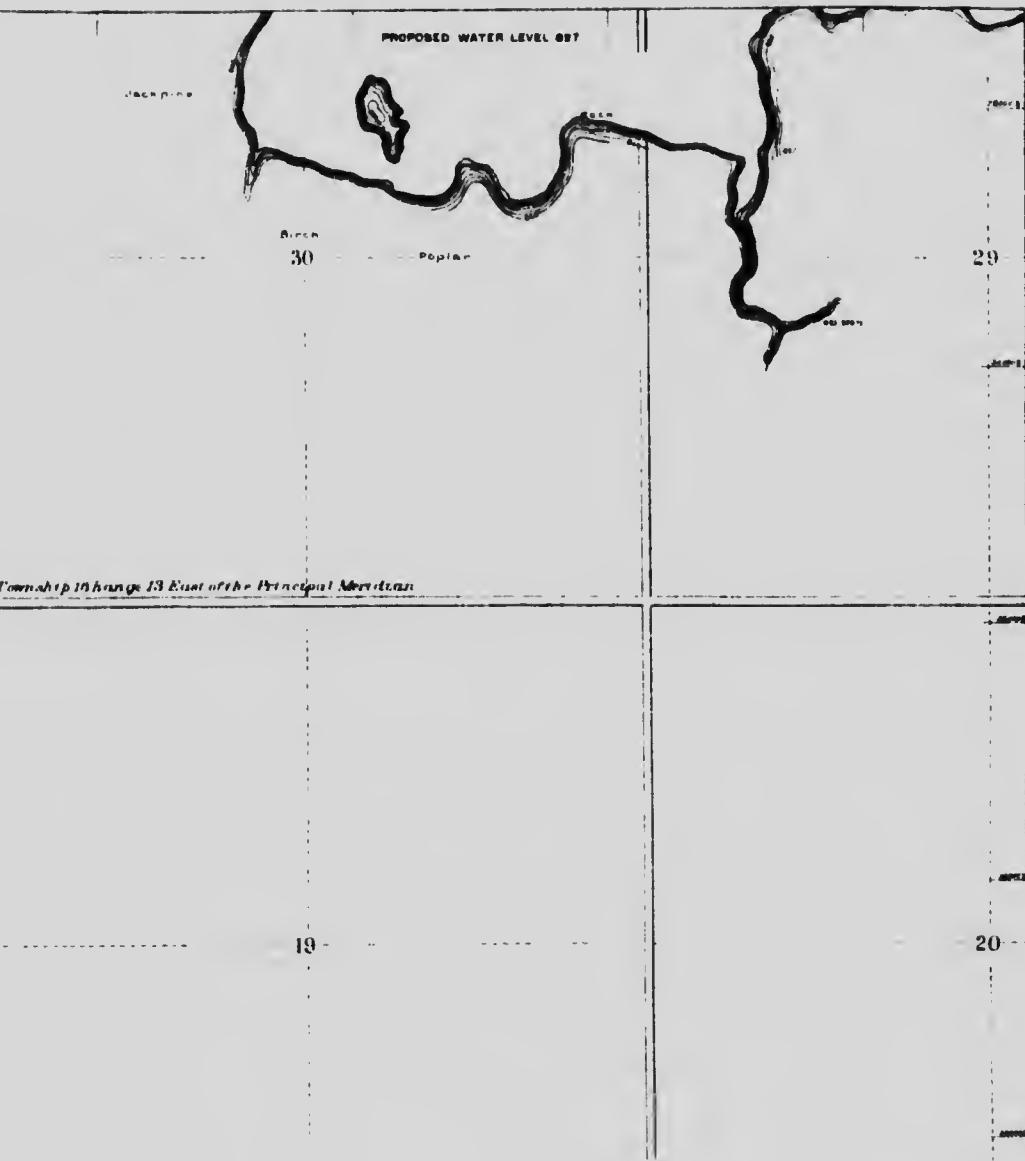
W. J. Brown CHIEF ENGINEER
W. J. Brown ASST CHIEF ENGINEER







Township 10 Range 12 East of the Principal Meridian
 Township 10 Range 13 East of the Principal Meridian



Township 19 Range 13 East of the Principal Meridian

Department of the Interior Canada
 HONOURABLE W. JACQUES MINISTRE
 W. W. LOYD C. M. S. DEPUTY MINISTER
 WATER POWER BRANCH
 J. B. CHARLES SURVEYOR-GENERAL

WINNIPEG RIVER POWER SURVEYS
 PINAWA CHANNEL
 TOPOGRAPHIC SHEET No 33

Scale

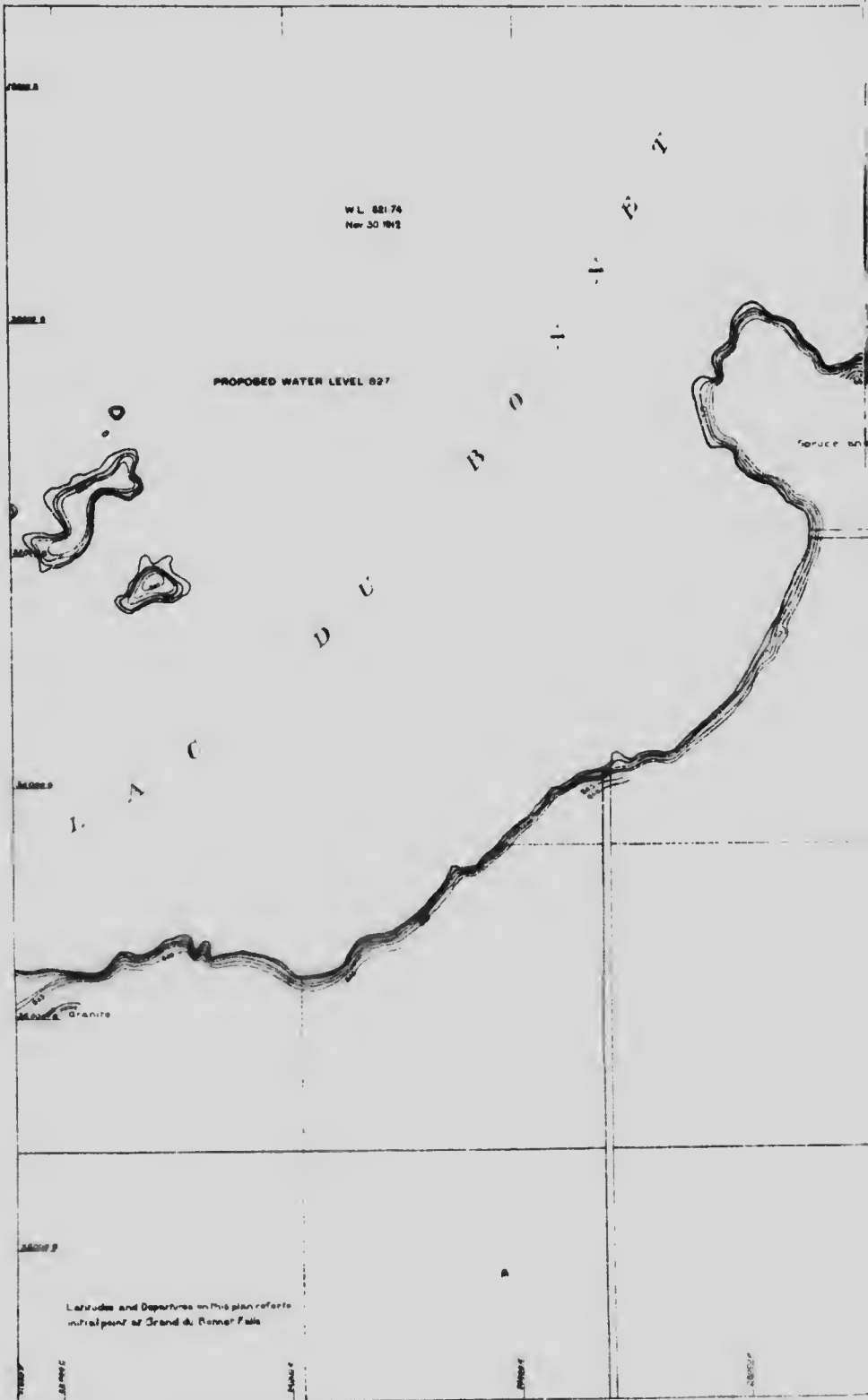


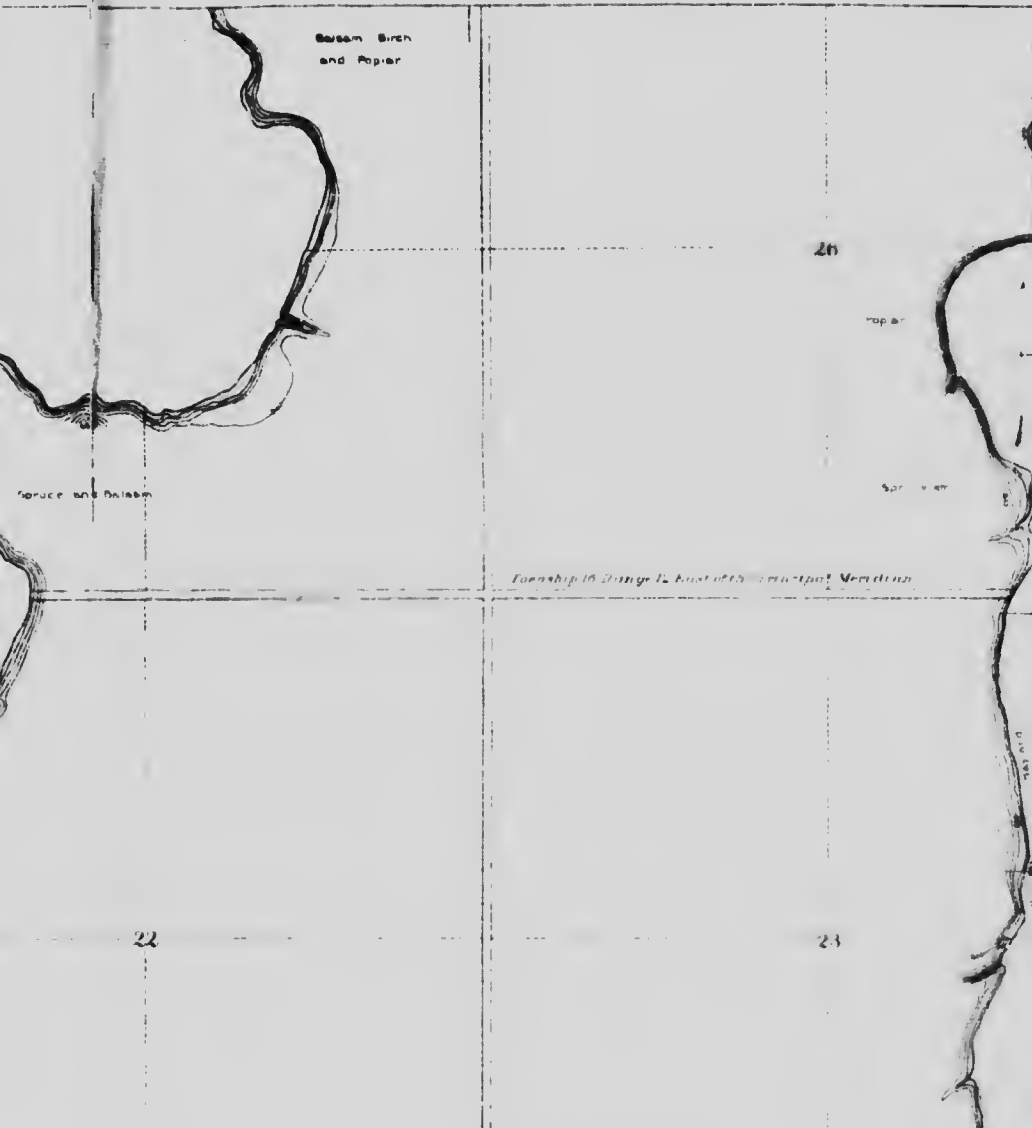
Lightning and Bearings on this Plan refer to
 Central Point of Great Lakes and St. Lawrence Falls

J. B. Charles Consulting Engineer

W. W. Lloyd Chief Engineer
W. W. Lloyd Asst. Chief Engineer

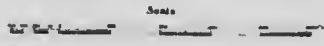
Winnipeg March, 1914





Department of the Interior, Canada
 HONOURABLE W. J. ROCHE, MINISTER
 W. C. H. G. DEVLIN, MASTER
 Water Power Branch
 180, Queen's, Ottawa

WINNIPEG RIVER POWER SURVEYS
 PINAWA CHANNEL
 TOPOGRAPHIC SHEET No 34



J. Macdonald Consulting Engineer

FEBRUARY 1914

George C. De Vries Chief Engineer
Robert S. Scott Asst. Chief Engineer

10000

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Zemelno-Kavoski Kanal od reke Tisovog delte
 (Zemelno-Kavoski Kanal od reke Tisovog delte)

Department of the Interior, Canada
BUREAU OF MINERAL SURVEYS
WATER POWER BRANCH
J. B. CHAMBERLAIN, SUPERVISOR

WINNIPEG RIVER POWER SURVEYS
LAC DU BONNET
TOPOGRAPHIC SHEET No 35

Scale

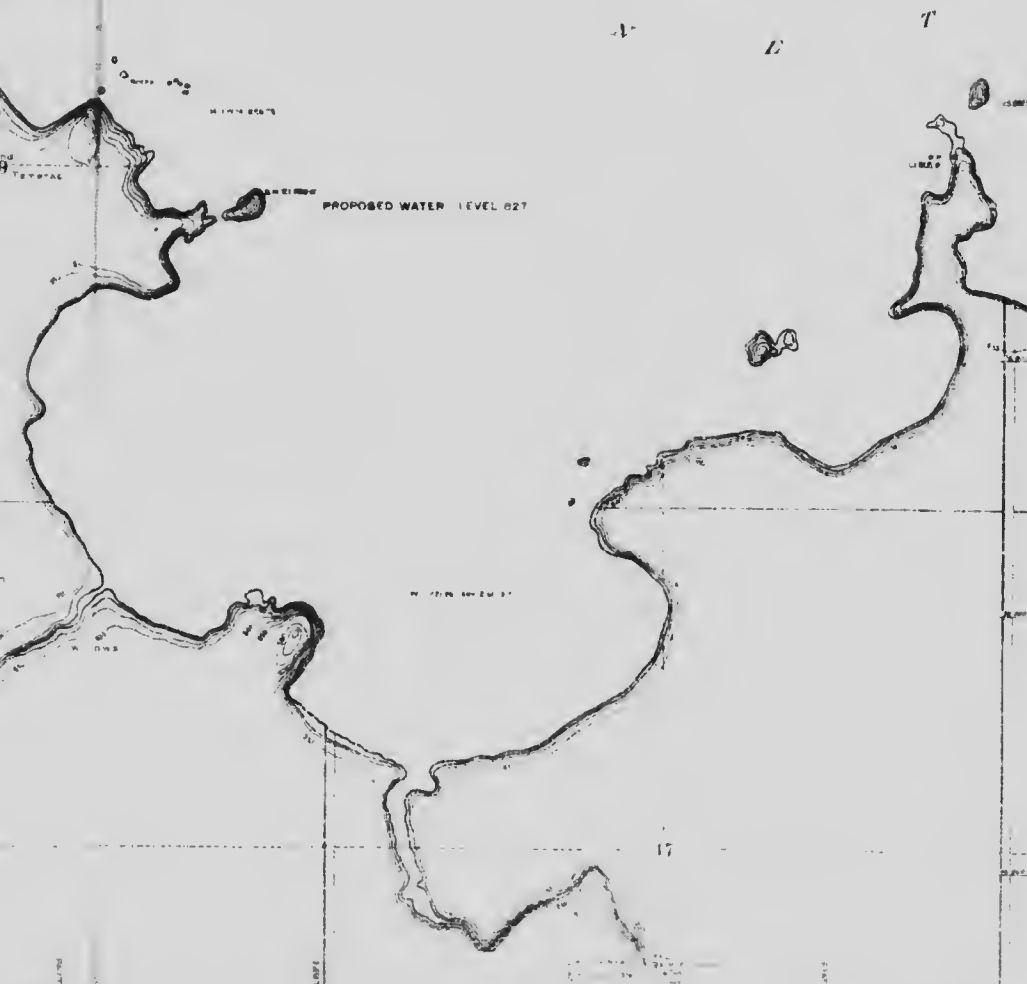


1 Mile

Horizontal Scale 1" = 1 Mile

Vertical Scale 1" = 100 Feet

Levelled and Opened up to the water level
by the Fall at Grand du Bonnet Falls



Department of the Interior, Canada
HONOURABLE W. A. BROWN MINISTER
W. W. SARTER DEPUTY MINISTER
WATER POWER BRANCH
J. B. CHALLES SUPERVISOR

WINNIPEG RIVER POWER SURVEYS

LAC DU BONNET

TOPOGRAPHIC SHEET No. 36

Scale



J. B. Challes Consulting Engineer
Drawing February 1914

George L. McManis Chief Engineer
John T. Sweeney Acting Chief Engineer

Elevations and Bearings on this Plan refer to
Local Plane of Grand du Bonnet Falls

Township 17 Range 12 East of the 100th

16

30

Township 18 Range 11 East of 100th Principal Meridian
Township 18 Range 11 East of 100th Principal Meridian

N.W. 1/4 567 56

W.L. 57 97 Nov. 25th. 1907

L A C D U





Department of the Interior Canada
COMMISSIONER GENERAL OF LANDS
AND SURVEY
WATER POWER BRANCH
S. CHAPMAN, Superintendent

WINNIPEG RIVER POWER SURVEYS

LAC DU BONNET

TOPOGRAPHIC SHEET No 37

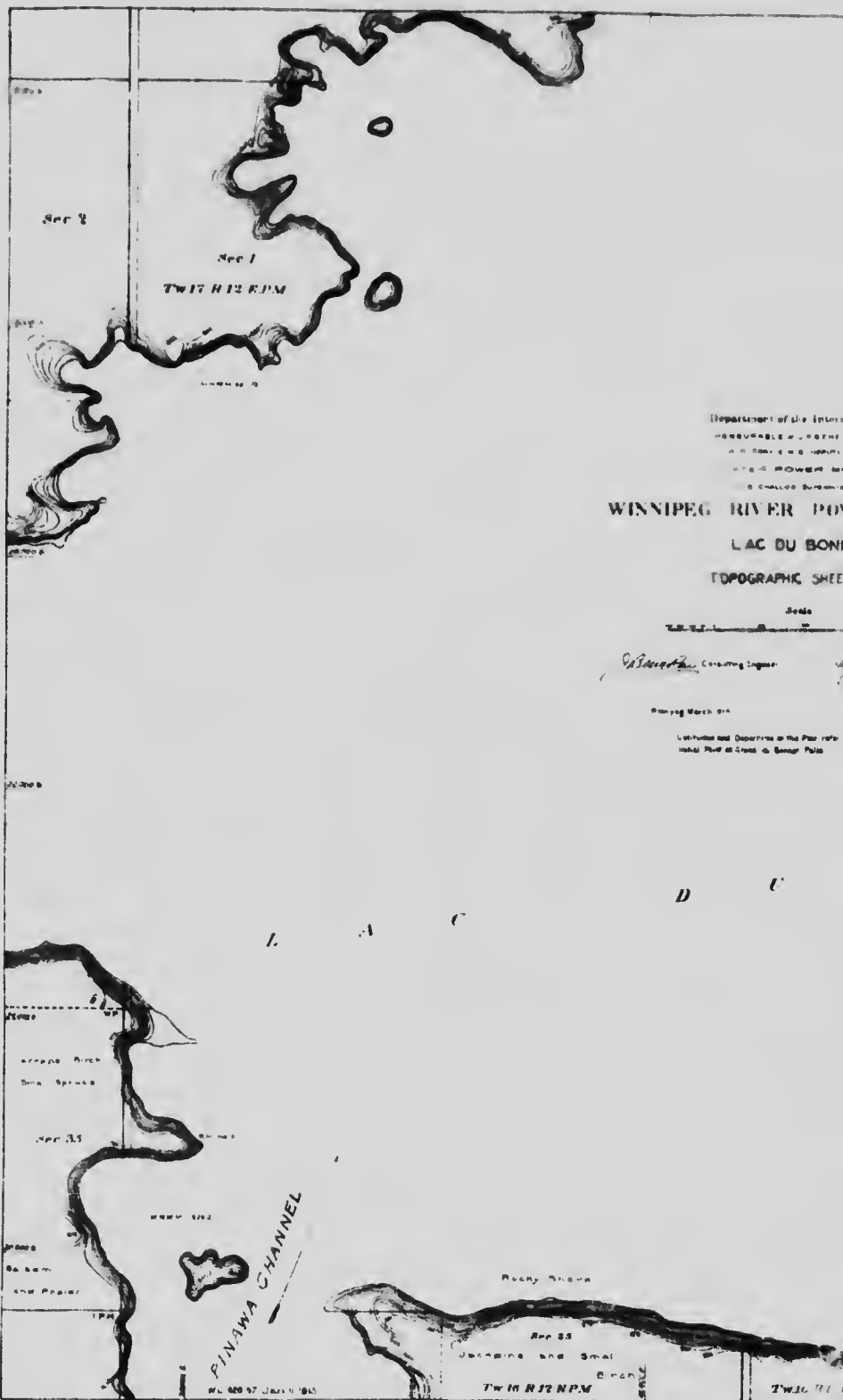
Scale

1 inch = 1 mile

Winnipeg, 1911
S. Chapman, Superintendent

Published by the Department of the Interior
at Ottawa, Ontario, Canada





Sec 2

Sec 1

TW17 R 12 EPM

Sec 35

2000

1900

Aspen Birch

Soft Spruce

2000

60 feet

and Paper

1700

2000 1002

PINAWA CHANNEL

Rocky Shoals

Sec 33

Jackpine and Small

Grass

TW16 R 12 NPM

TW16 R 12 NPM

Department of the Interior
 GEOLOGICAL SURVEY OF CANADA

WINNIPEG RIVER POWER
 LAC DU BONNET
 TOPOGRAPHIC SHEET

Scale



W. G. Barrett Consulting Engineer

Winnipeg March 21st

Contour lines and elevations in this Plan refer to
 the High Water of Lake du Bonnet

L A C D U

W. G. 88 97 Jan 11 1905

Part of the International Boundary
between the United States and Canada
as shown on the original maps
of the POWER SURVEYS
of the International Boundary Commission

POWER SURVEYS

DU BONNET

GRAPHIC SHEET No 33



Surveyed by
Augustus C. McVean Chief Engineer
John T. Farrell Assistant Engineer

Part of the Power Survey
of the International Boundary

D U B O N N E T

PROPOSED WATER LEVEL 92'

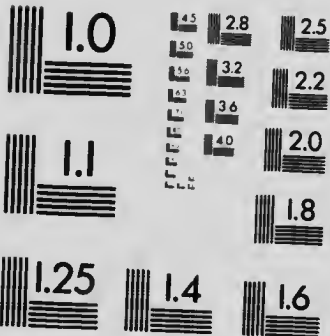
Twelve Mile Run Sec 30





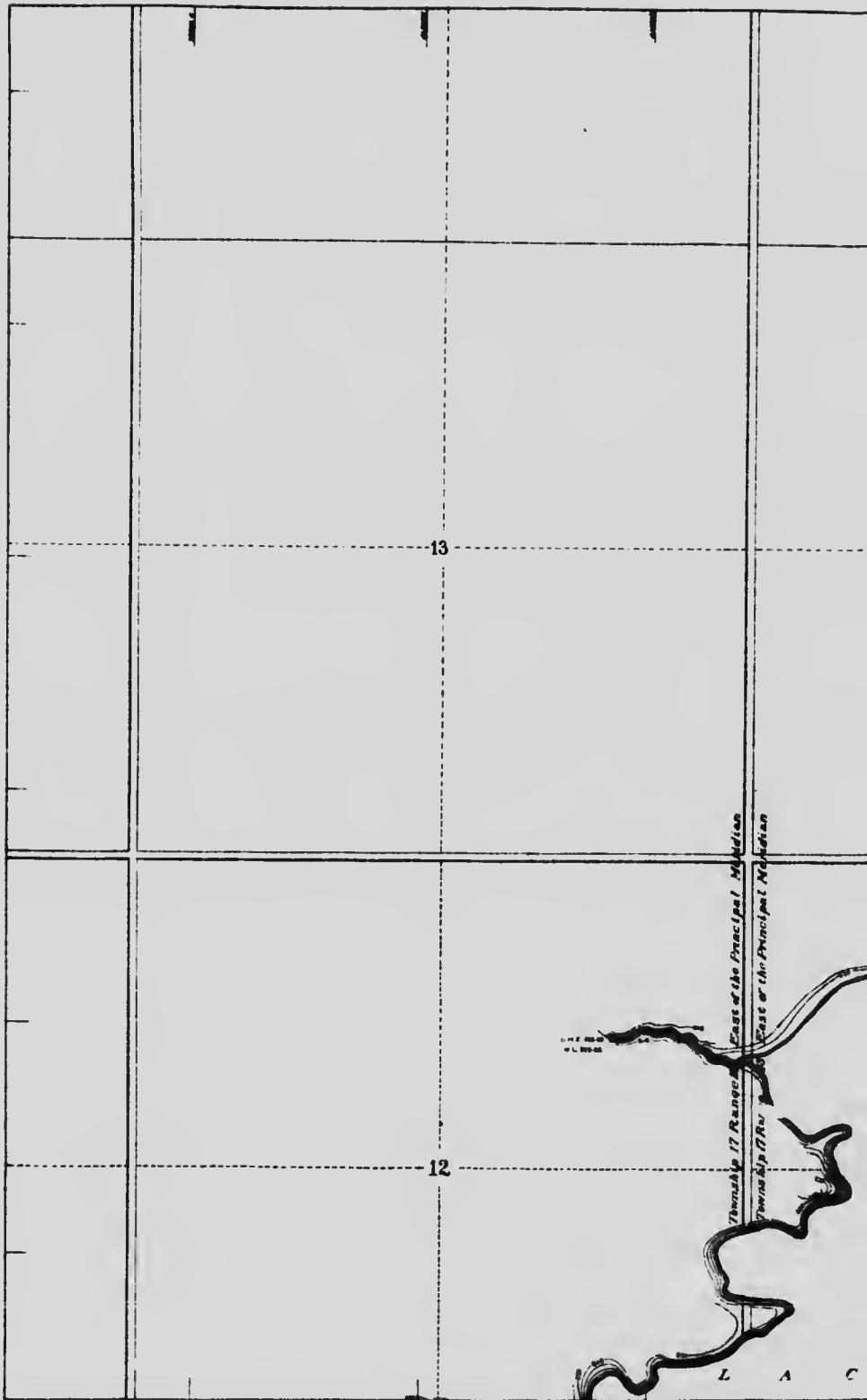
MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



APPLIED IMAGE Inc

1653 East Main Street
Rochester, New York 14609 USA
(716) 482 - 0300 - Phone
(716) 288 - 5989 - Fax



Department of the Interior, Canada.
HONOURABLE W. J. BRINE, MINISTER
W. W. C. H. S. DEPUTY MINISTER.
WATER POWER DIVISION
J. D. BRADSHAW, SUPERVISOR

WINNIPEG RIVER POWER SURVEYS
LAC DU BONNET
TOPOGRAPHIC SHEET No 89

Scale



J. Bevan Rae Consulting Engineer

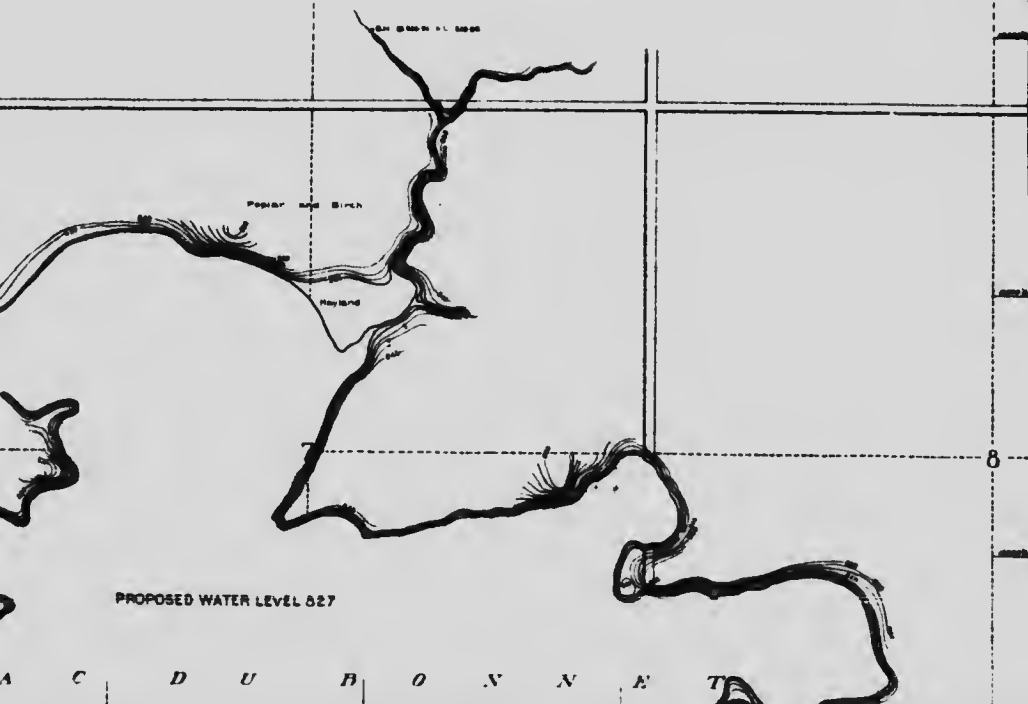
Wm. J. R. McHenry Chief Engineer
Clayton F. Sperry Acting Chief Engineer

Winnipeg, March 1914

18

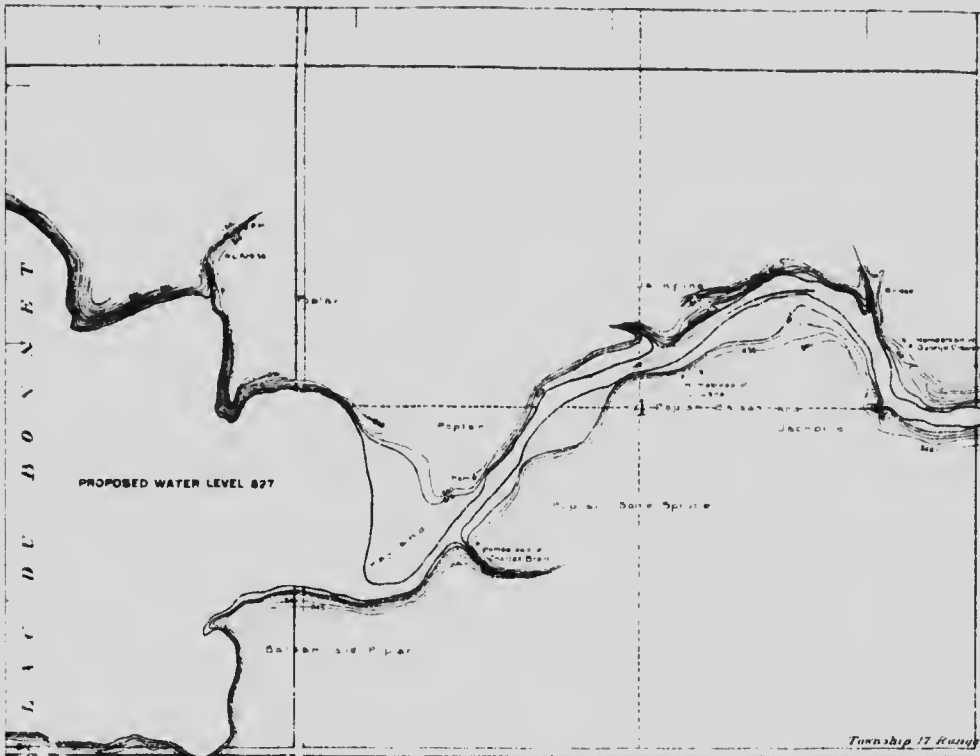
Left-Hand and Right-Hand in this Plan refer to
Local Post of Grand du Bonnet Falls

17

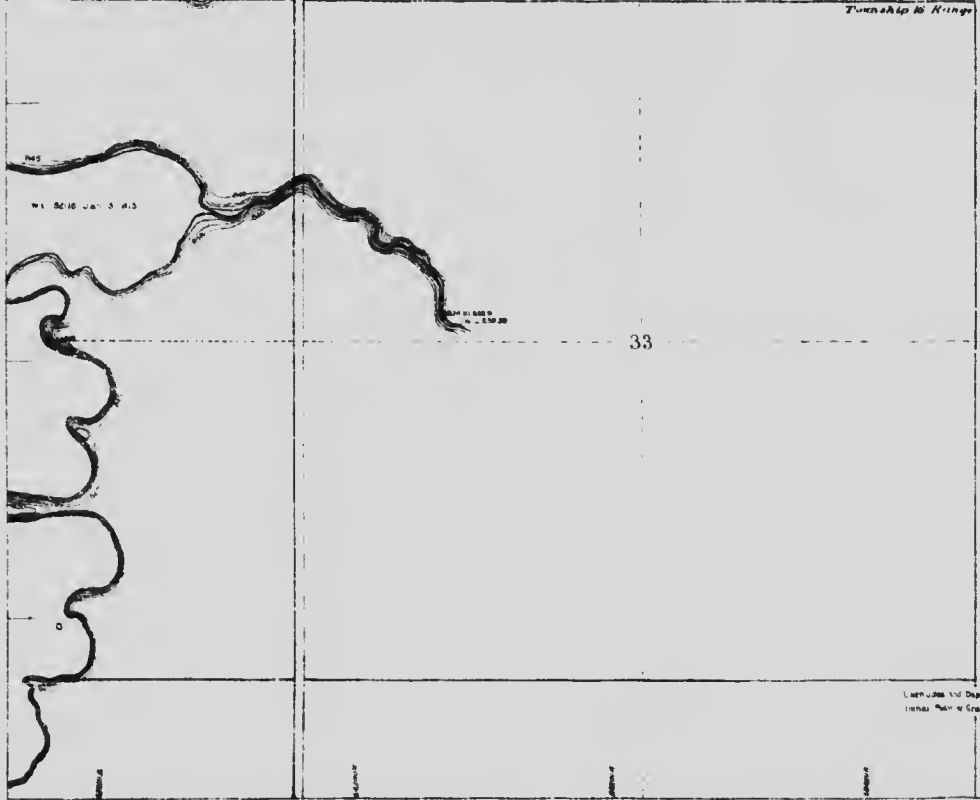


PROPOSED WATER LEVEL 527

A C D U B O N N E T

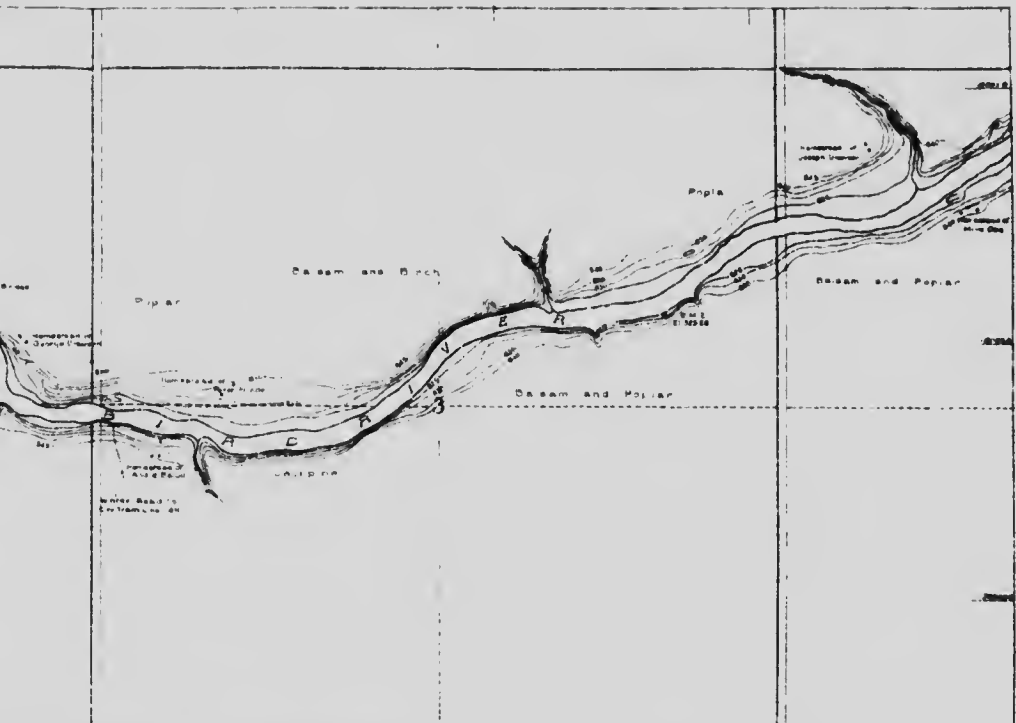


Township 17 Range
Township 16 Range



33

Scale 1 inch = 1 mile
Projection: Mercator



Ship 17 Range 14 East of the Principal Meridian
 Ship 16 Range 13

34

Department of the Interior Canada
 HONOURABLE G. B. ROOME MINISTER
 W. W. COY C. B. S. DEPUTY MINISTER
 WATER POWER BRANCH
 D. CHALLES SUPERINTENDENT

WINNIPEG RIVER POWER SURVEYS
 BIRD RIVER
 TOPOGRAPHIC SHEET No 40

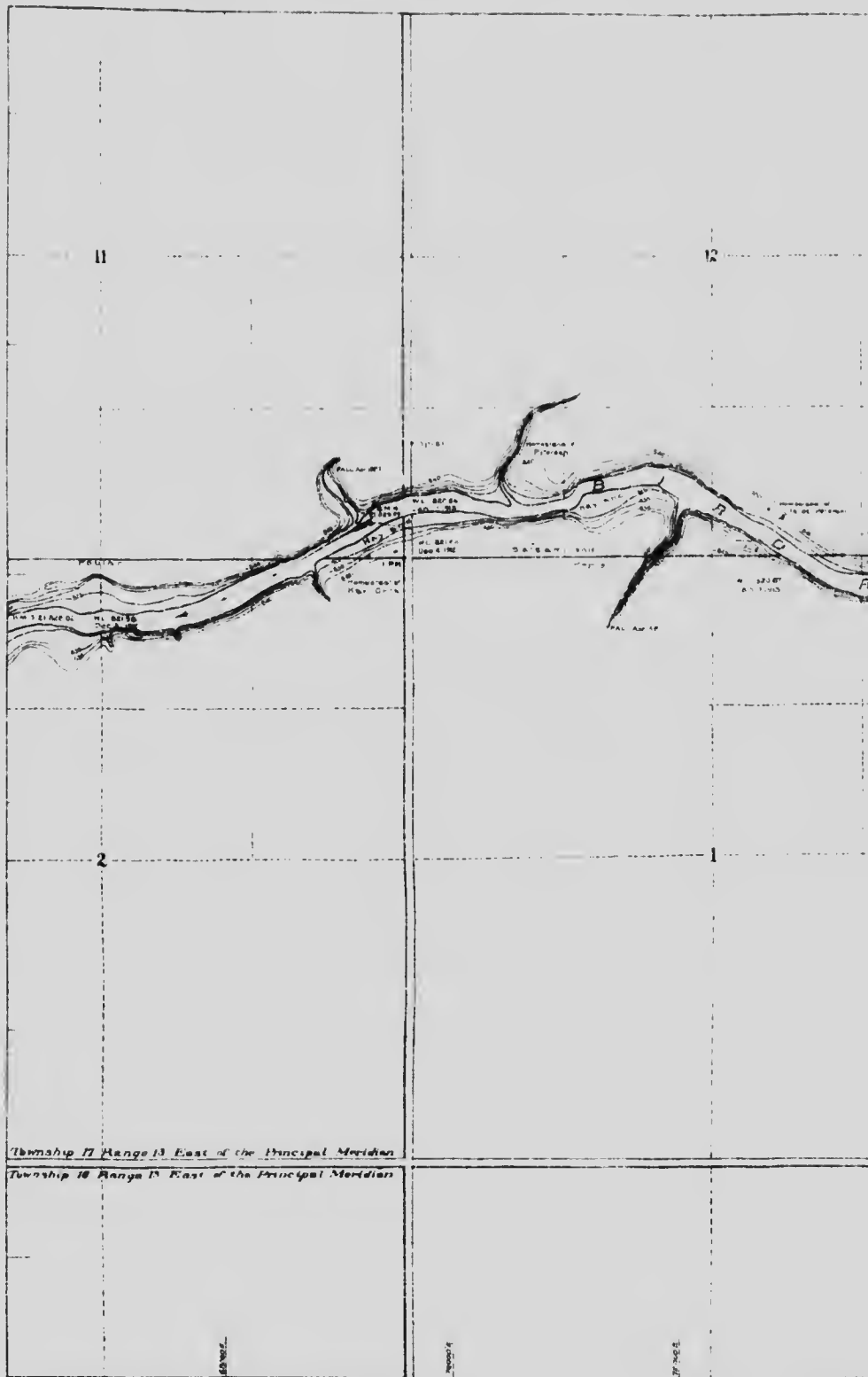
Scale

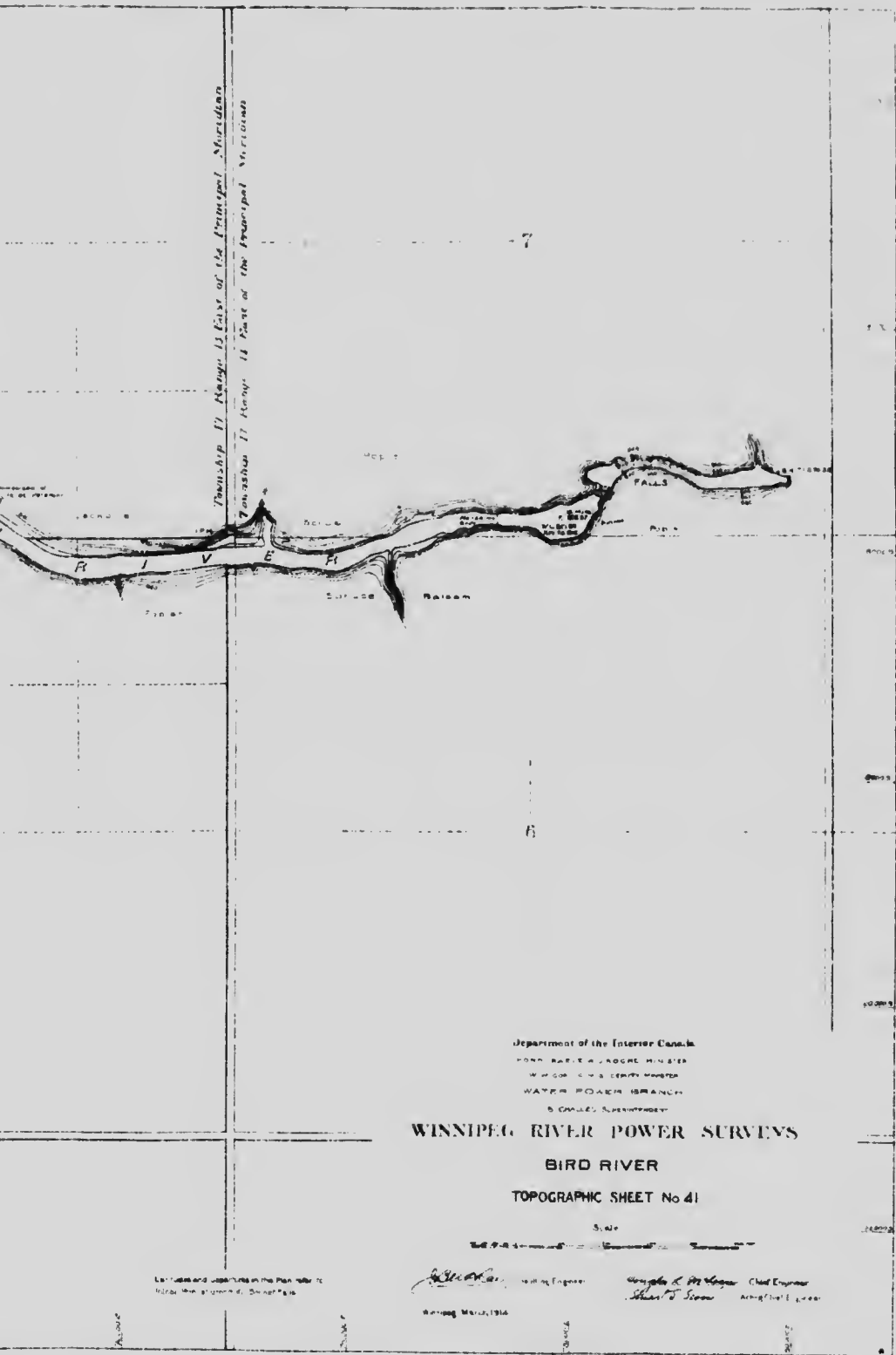


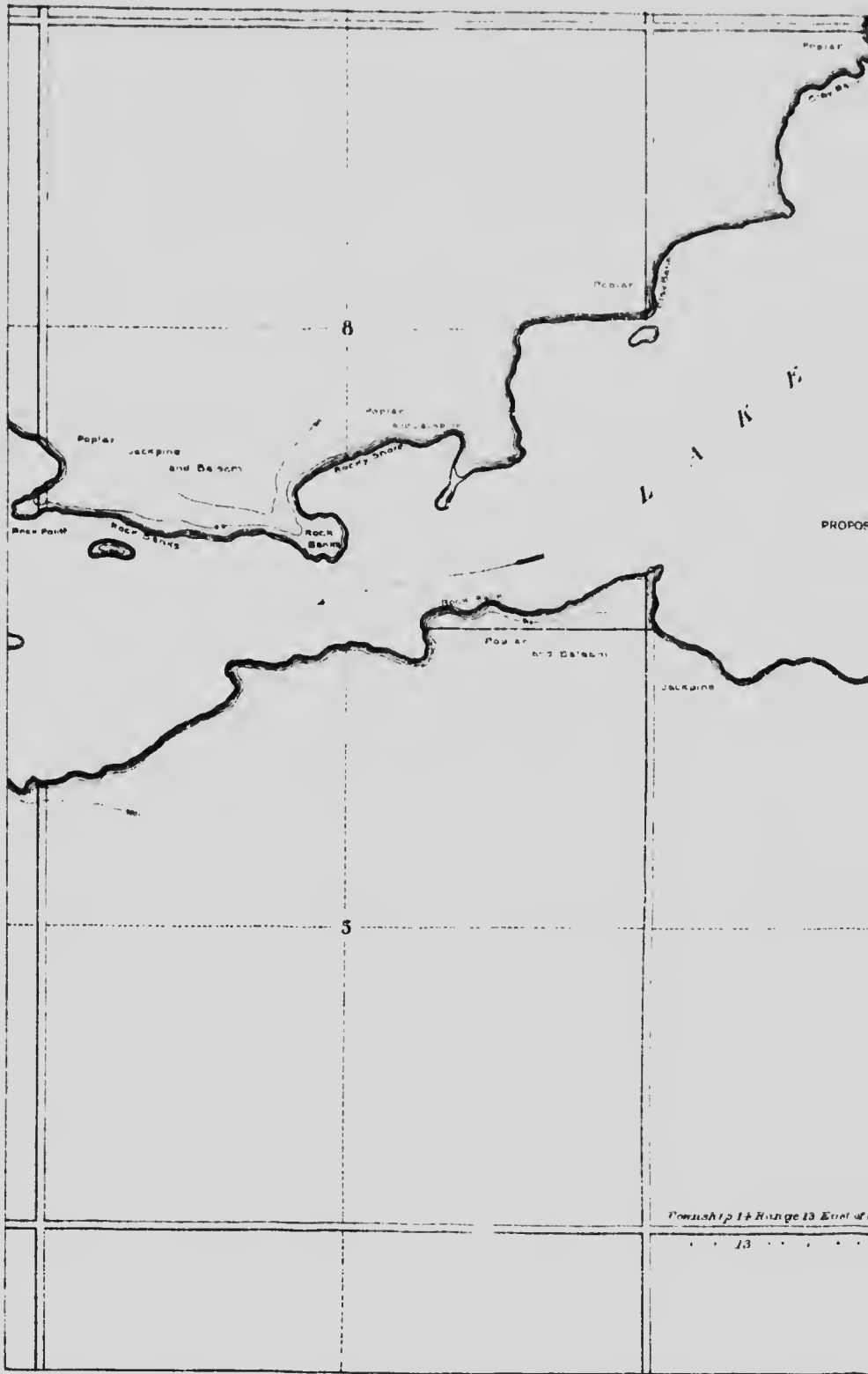
Les titres et descriptions de cette planche se trouvent dans le Plan de Grand et Petit Format

J. S. ... Consulting Engineer *W. W. Coy* Chief Engineer
W. W. Coy Acting Chief Engineer

Winnipeg, March, 1914







Township 14 Range 13 East of



PROPOSED WATER LEVEL 894'

ROCK POINT
Poplar

Department of the Interior, Canada
HONOURABLE W. J. BROWN, MINISTER
W. W. COLE, DEPUTY MINISTER
WATER POWER BRANCH
J. D. COLLIER, SUPERVISOR

WINNIPEG RIVER POWER SURVEYS
LAKE DOROTHY
TOPOGRAPHIC SHEET No 42

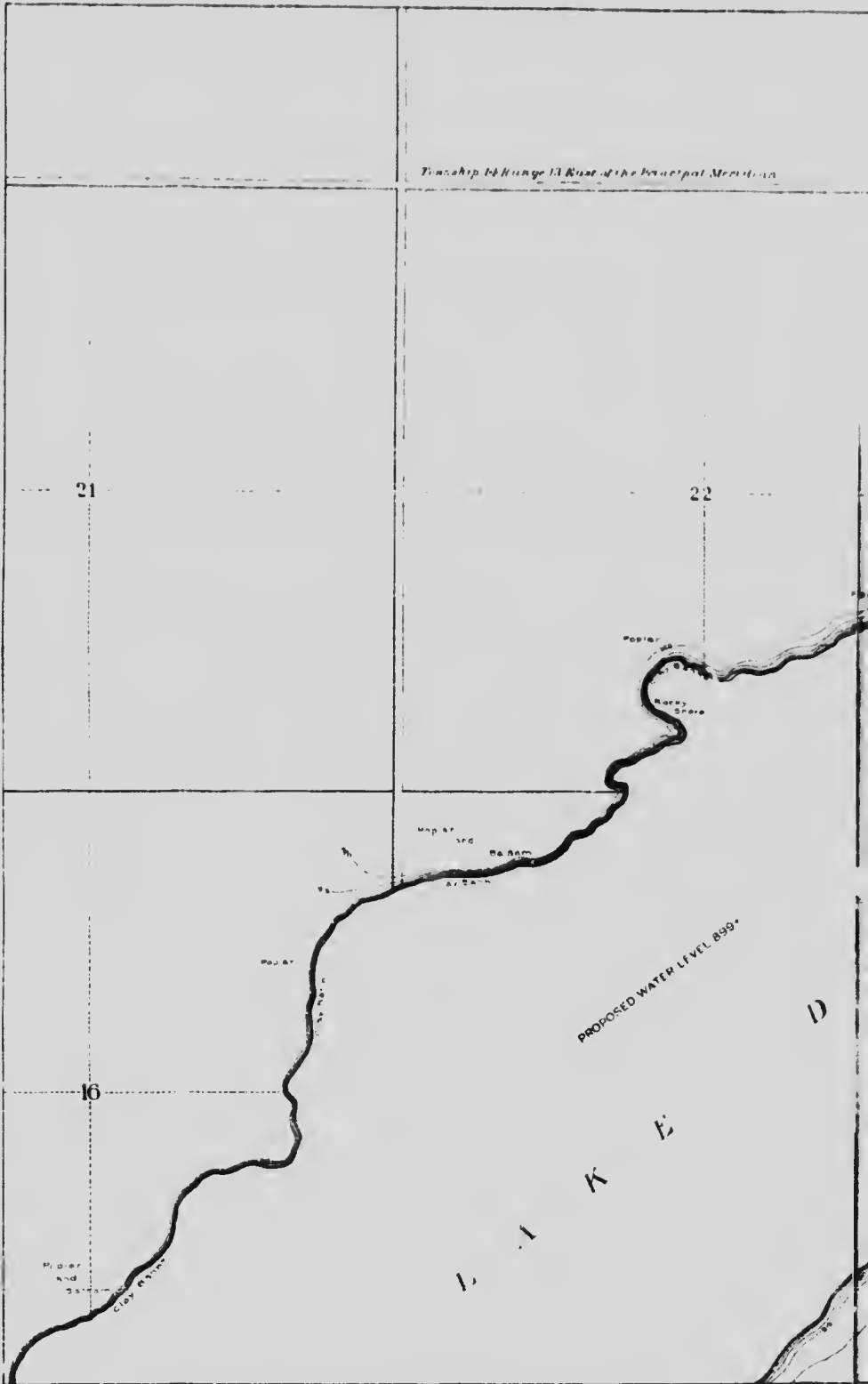
Page 13 East of the Principal Meridian

May 1916

W. W. Cole CONSULTING ENGINEER
John S. Smith ACTING CHIEF ENGINEER

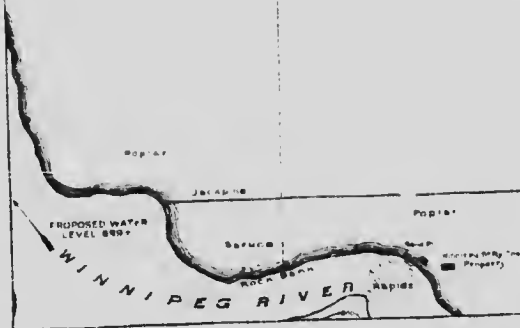
NOTE: The information on this plan is taken from the official Township plans and is a reconnaissance survey of contours from a canoe.

Township 14 Range 13 West of the Principal Meridian



25

21



Township 16 Range 23 East of the Principal Meridian
Township 14 Range 14 East of the Principal Meridian

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Department of the Interior, Canada
 HONOURABLE W. J. ROMIE, MINISTER
 W. W. CORY, CHIEF DEPUTY MINISTER
 WATER POWER BRANCH
 J. B. CHALLEN, SUPERVISOR

WINNIPEG RIVER POWER SURVEYS
 STURGEON FALLS
 TOPOGRAPHIC SHEET No. 44

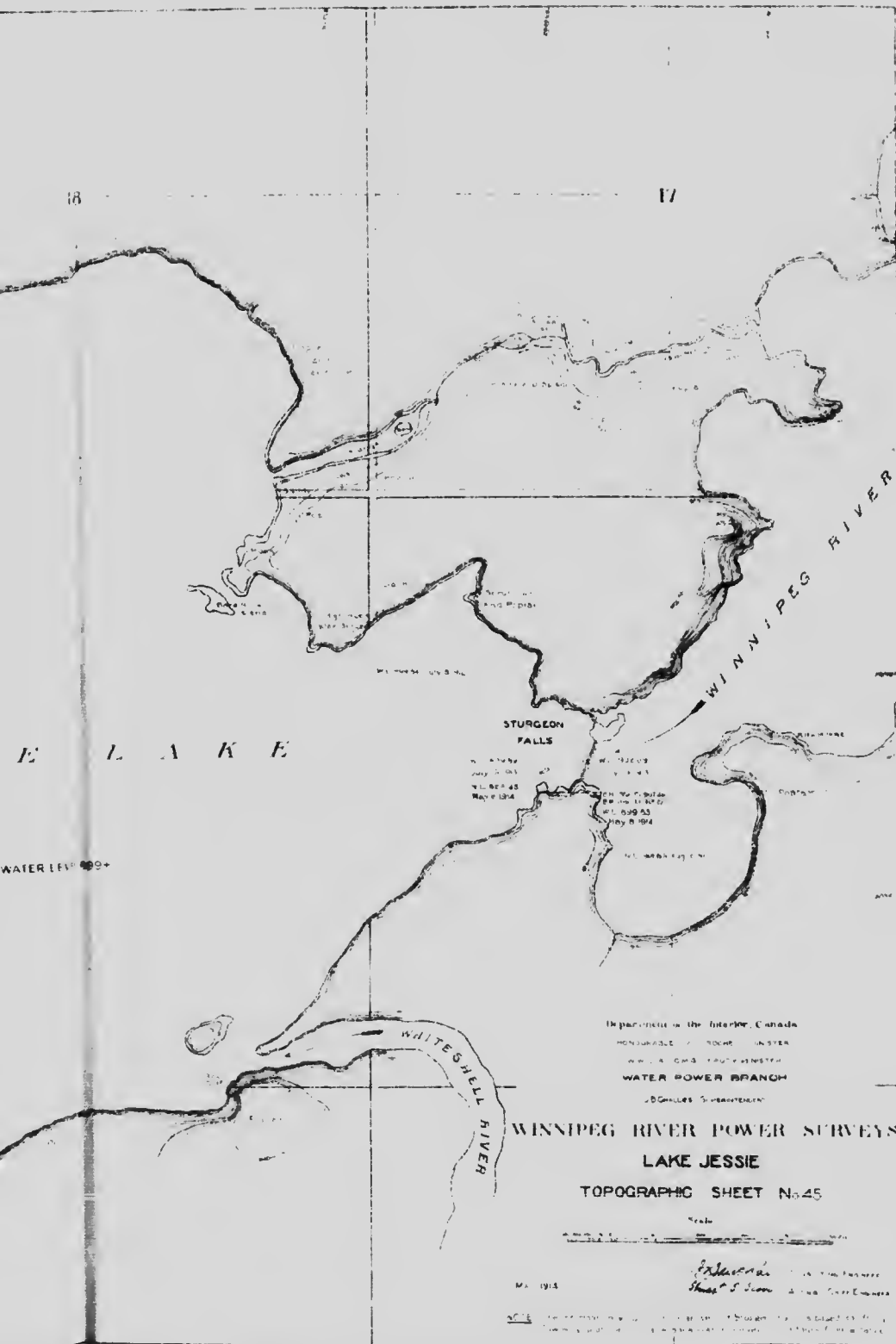
Scale

MAY 1916

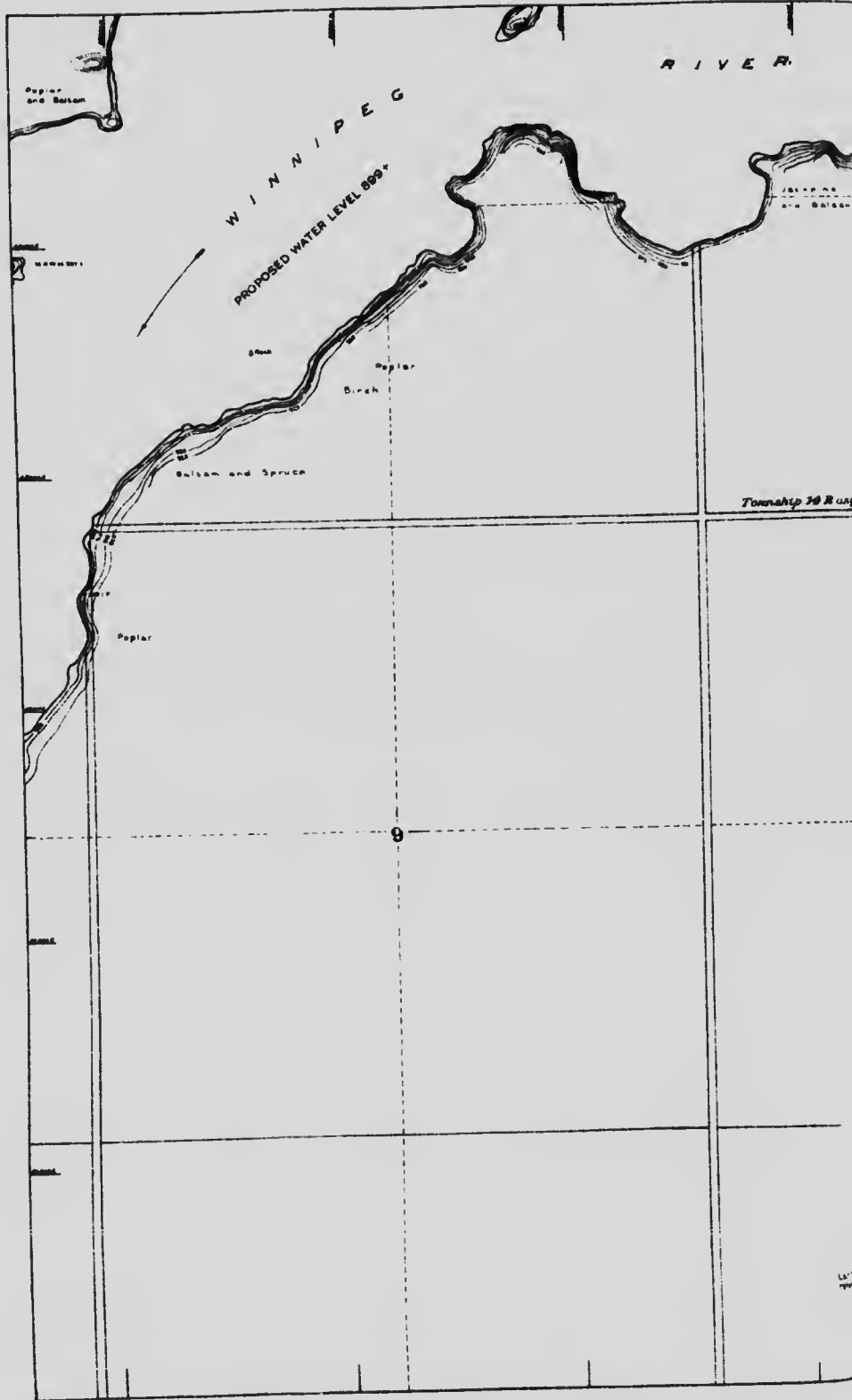
W. W. Cory Consulting Engineer
W. W. Cory Chief Engineer

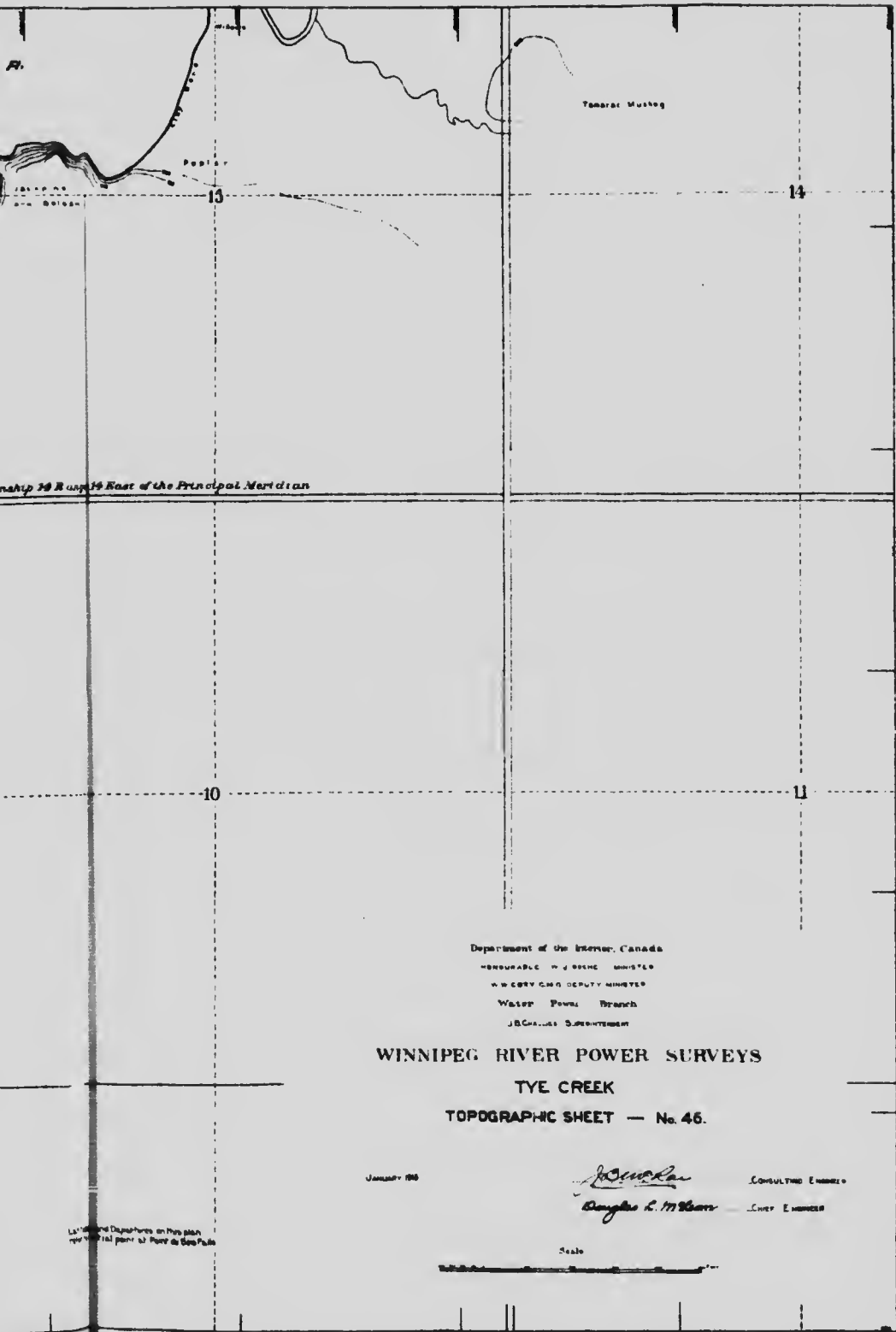
NOTE - The information shown on this plan is based on the official leveling
 plans and on a reconnaissance survey of contours from a canoe





NOTE: The horizontal scale is in feet and the vertical scale is in feet. The contour interval is 20 feet.





Department of the Interior, Canada
HON. JAMES HARRIS, MINISTER
HON. JOHN CAMPBELL, DEPUTY MINISTER
Water Power Branch
J.B. Côté as Supervisor

WINNIPEG RIVER POWER SURVEYS TYE CREEK TOPOGRAPHIC SHEET — No. 47.

Oct. 19

J. B. Côté

CONSULTING ENGINEER

Augustus G. McLean

LEAD ENGINEER

Scale

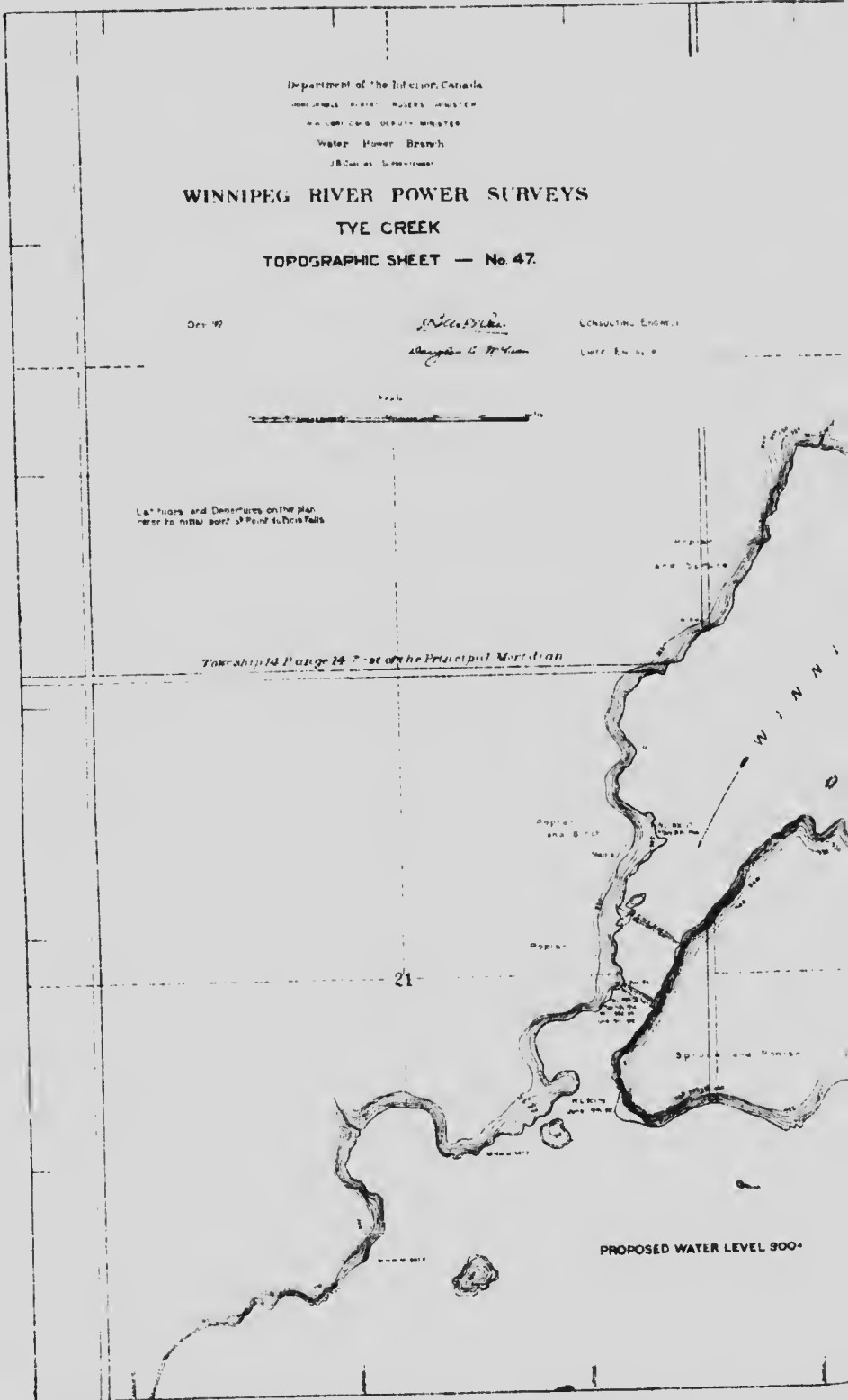


Latitudes and Departures on the plan
refer to initial point at Point du Bois Falls

Township 14 Range 14 E of the Principal Meridian

21

PROPOSED WATER LEVEL 300'





Department of the Interior Canada

MINISTRE DES TRAVAUX PUBLICS

DEPARTMENT OF PUBLIC WORKS

Water Power Branch

Water Power Branch

WINNIPEG RIVER POWER SURVEYS

SLAVE FALLS

TOPOGRAPHIC SHEET — No. 48.

Scale

J. H. ...
Charles J. ...

CONSULTING ENGINEER

CHIEF ENGINEER

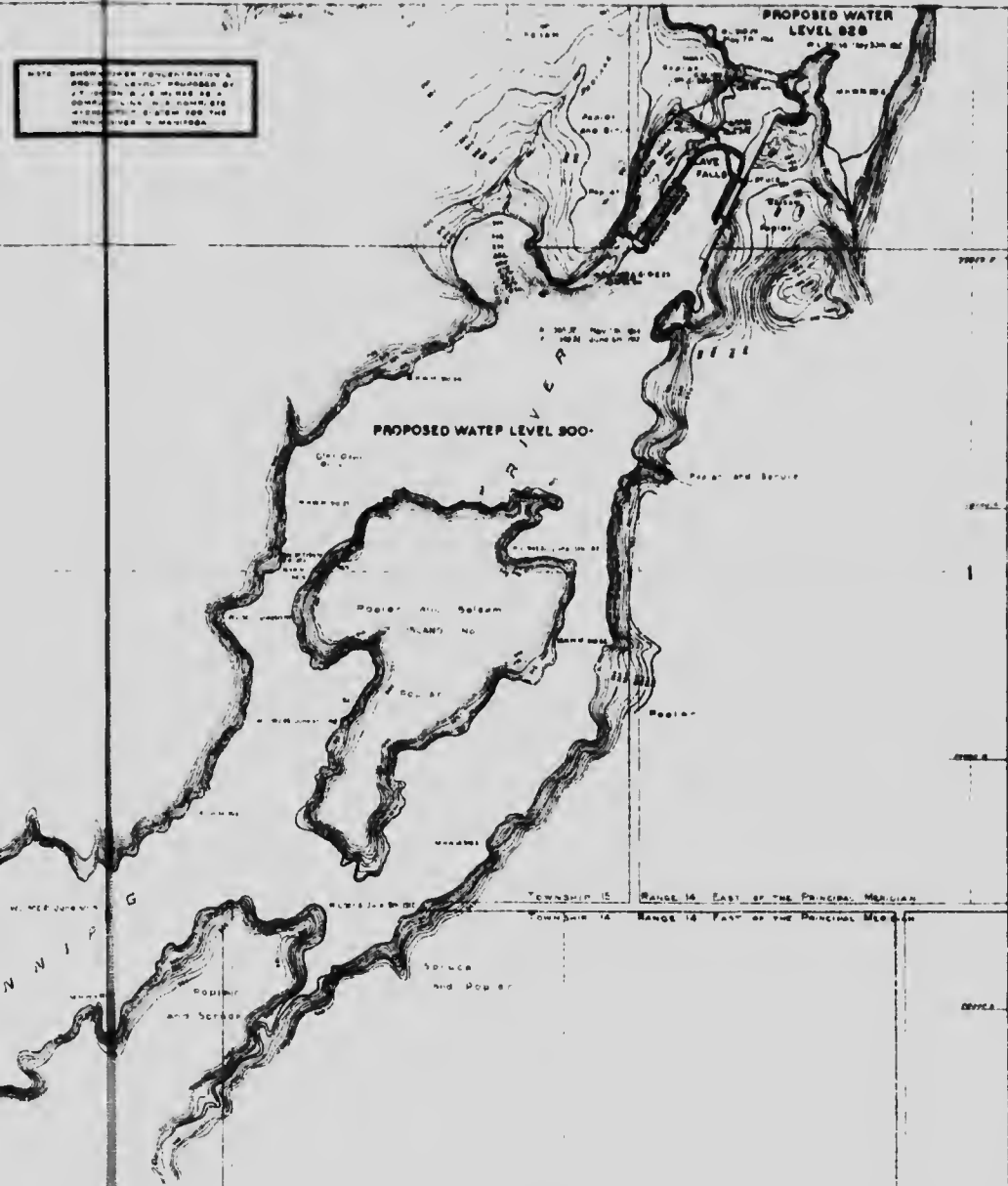
Scale

1:50,000

WATER	SHADE
ROCK	...
...	...
...	...
...	...



NOTE SHOWS WATER CONCENTRATION & PROPOSED LEVELS PROPOSED BY STATE ENGINEER & REVISOR AS COMPLETED AS OF 1908. THE PROPOSED LEVELS ARE FOR THE WINDING RIVER W. W. W. W. W.



... of notes and descriptions on this plan refer to initial point at Point du Bois Falls

Department of the Interior Canada
BUREAU OF GEOMATIC SCIENCES
SURVEY AND MAPPING BRANCH
Water Power Branch
P.L. 1000 Commission

WINNIPEG RIVER POWER SURVEYS
SLAVE FALLS
TOPOGRAPHIC SHEET -- No. 49.

Sept 1902

L. S. Johnston
Lieutenant Colonel
Honourable E. W. Lean

Chief Engineer
Water Power Branch

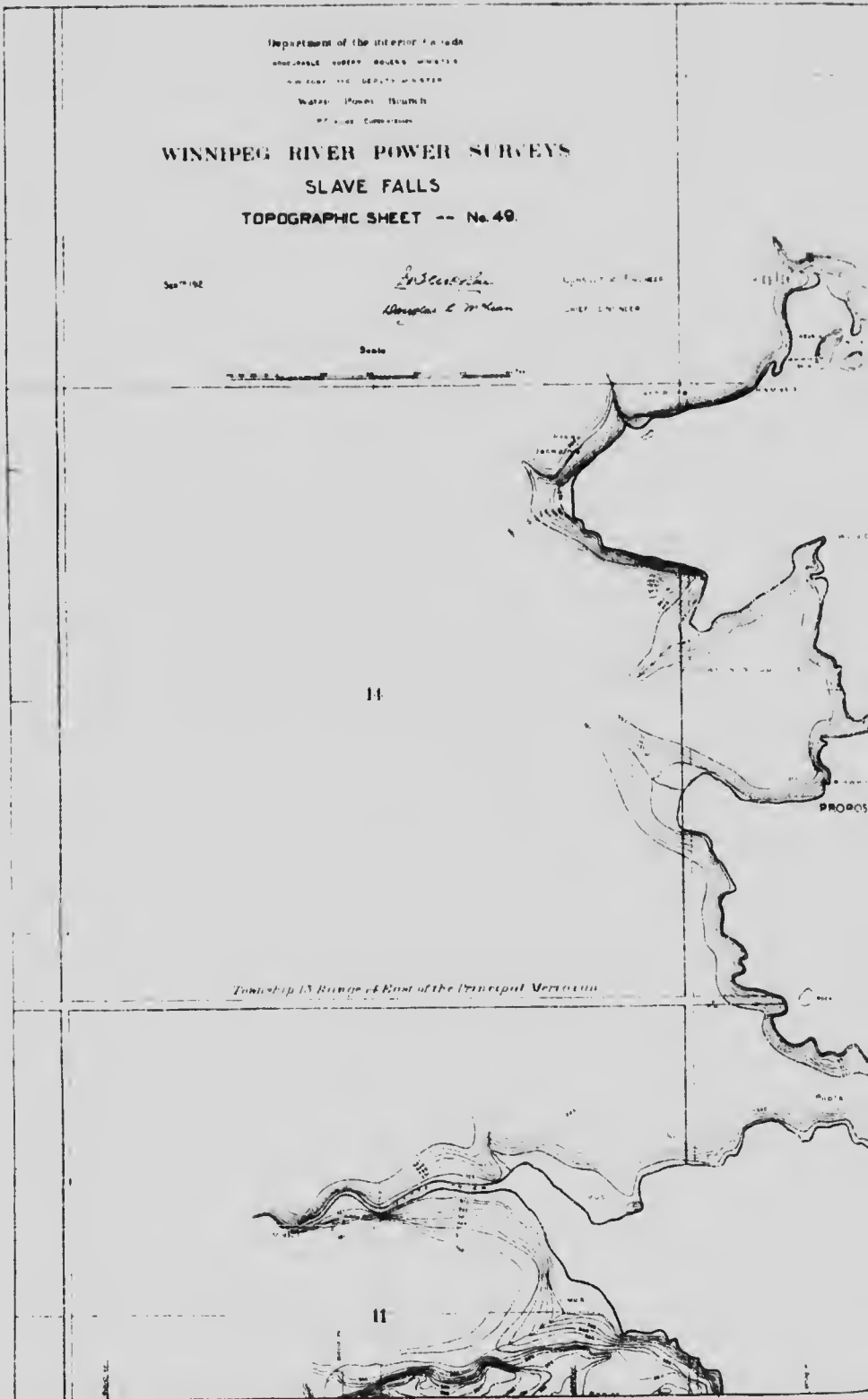
Scale

1:50,000

14

Township 15 Range 4 East of the Principal Meridian

11



24

19

RIVER

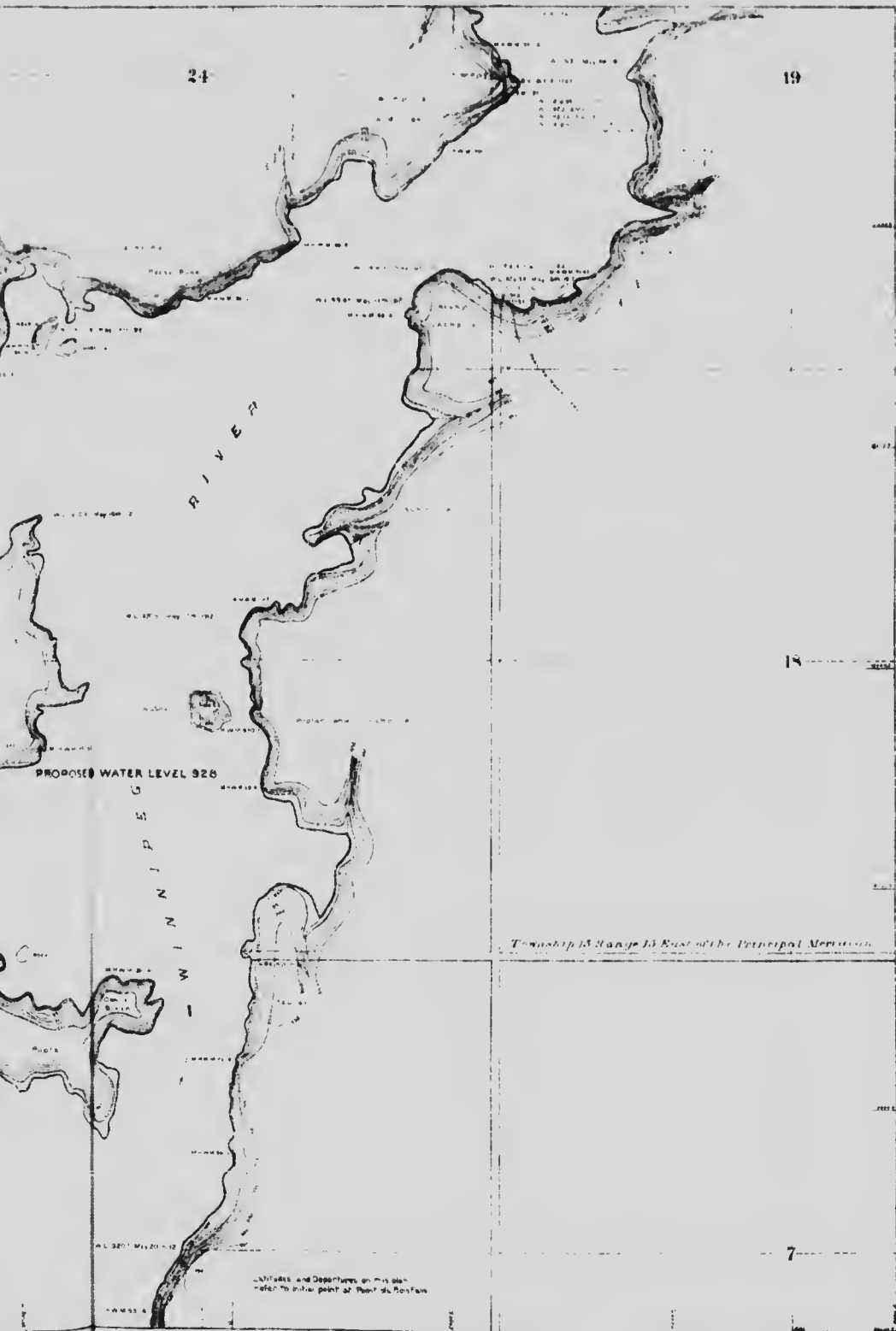
PROPOSED WATER LEVEL 926

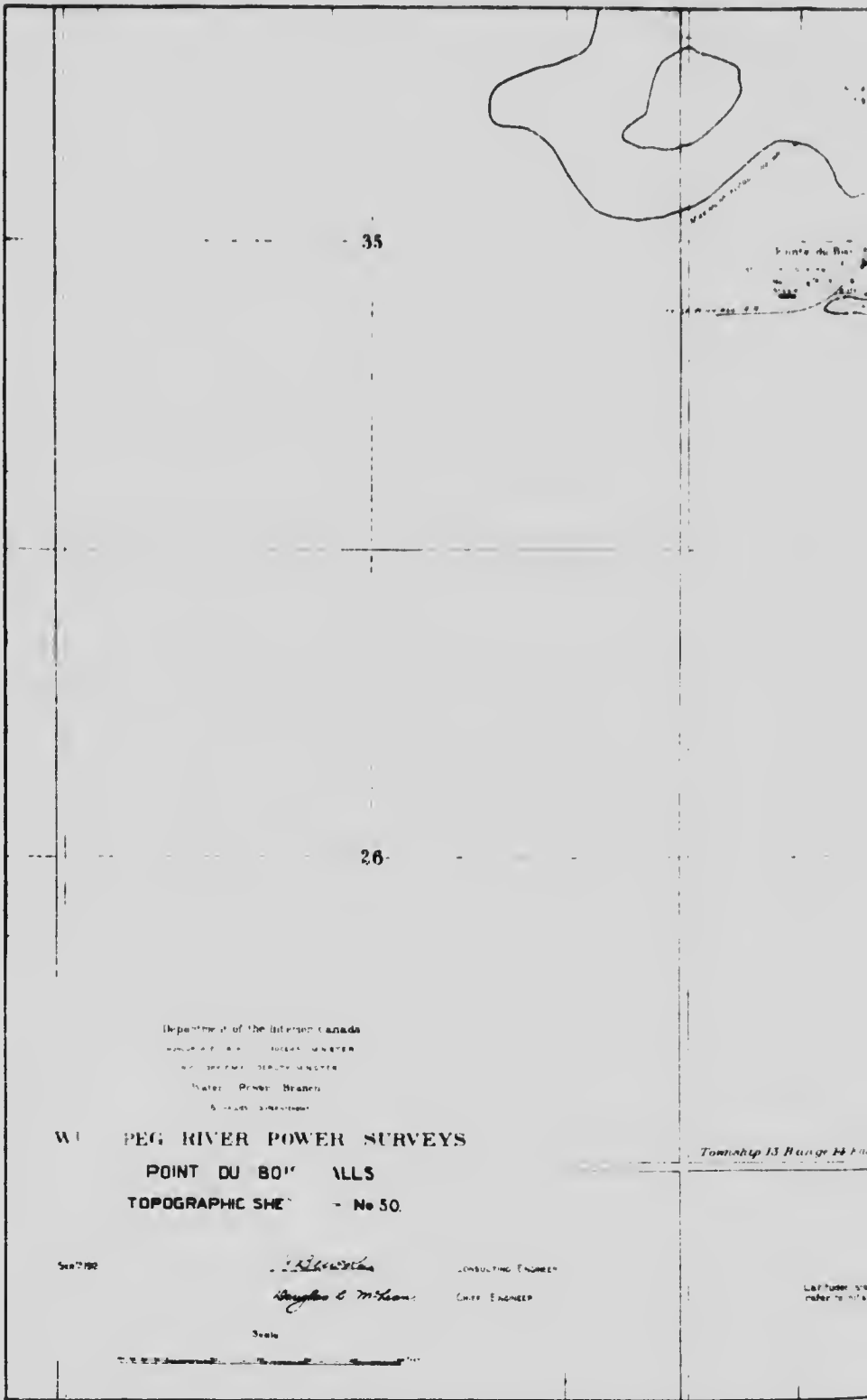
WINNIPIG

Township 15 Range 15 East of the Principal Meridian

7

Whitts and Departures on this plan refer to initial point of Point du Fort





Department of the Interior Canada
 MINISTRE DES TERRES ET DES RESSOURCES
 MINISTRE DE L'ÉNERGIE ET DES SERVICES PUBLICS
 Water Power Branch
 Ottawa, Ontario

W PEG RIVER POWER SURVEYS
 POINT DU BOIS FALLS
 TOPOGRAPHIC SHEET - No 50.

Township 13 Range 44

Sheet 50

[Signature]

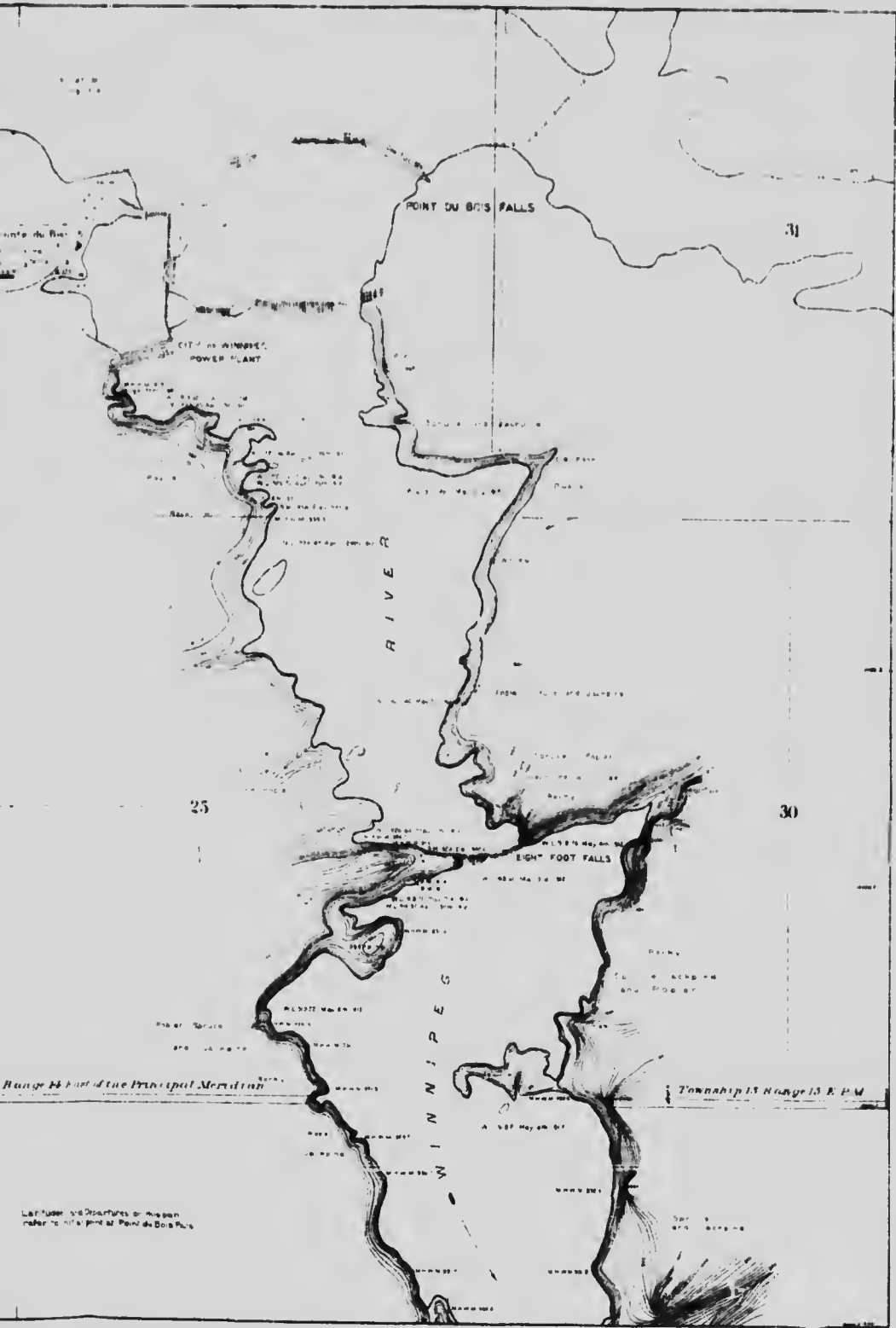
CONSULTING ENGINEER

Stephen C. McLean

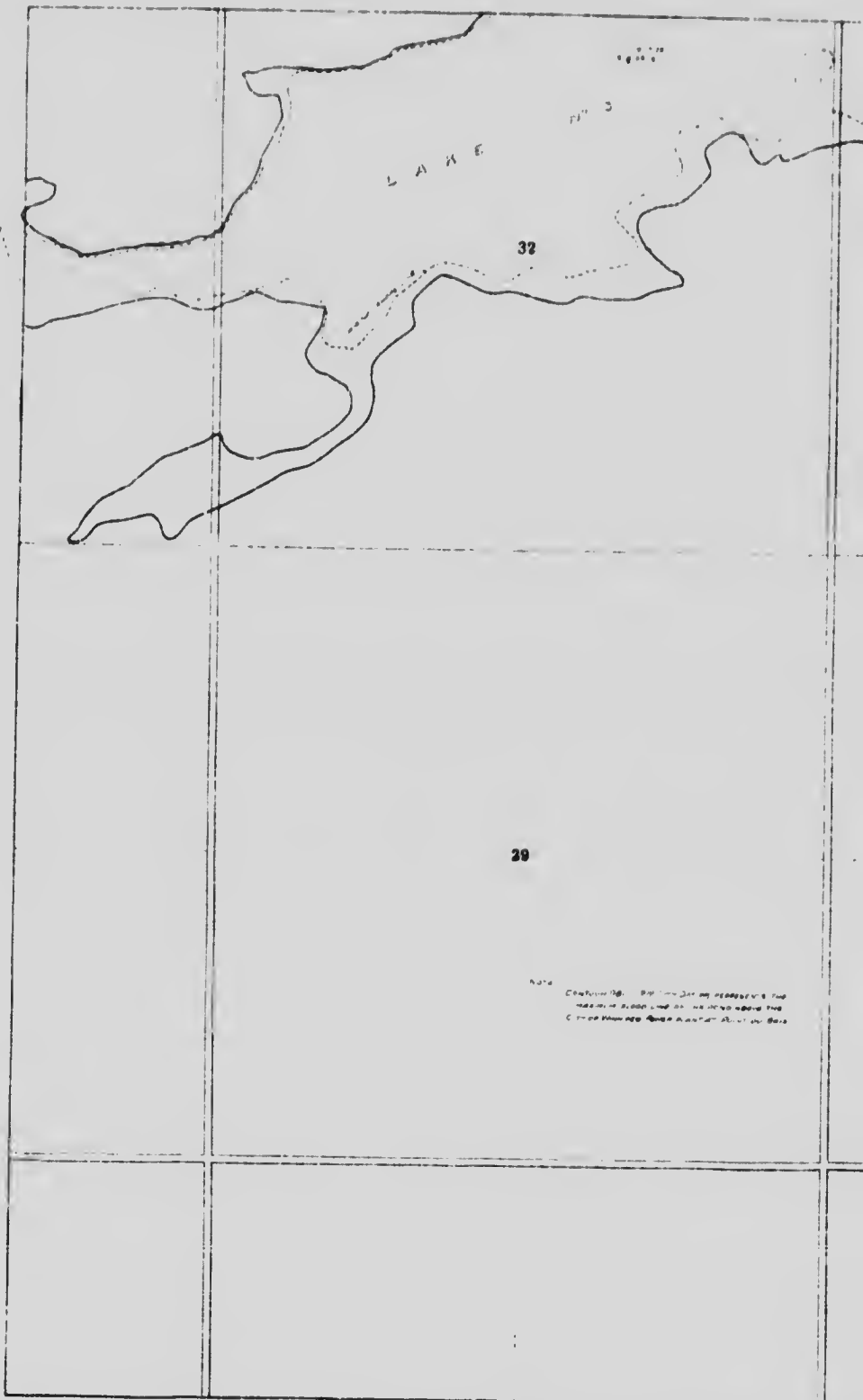
CHIEF ENGINEER

Scale

Latitude and
 Refer to 1115

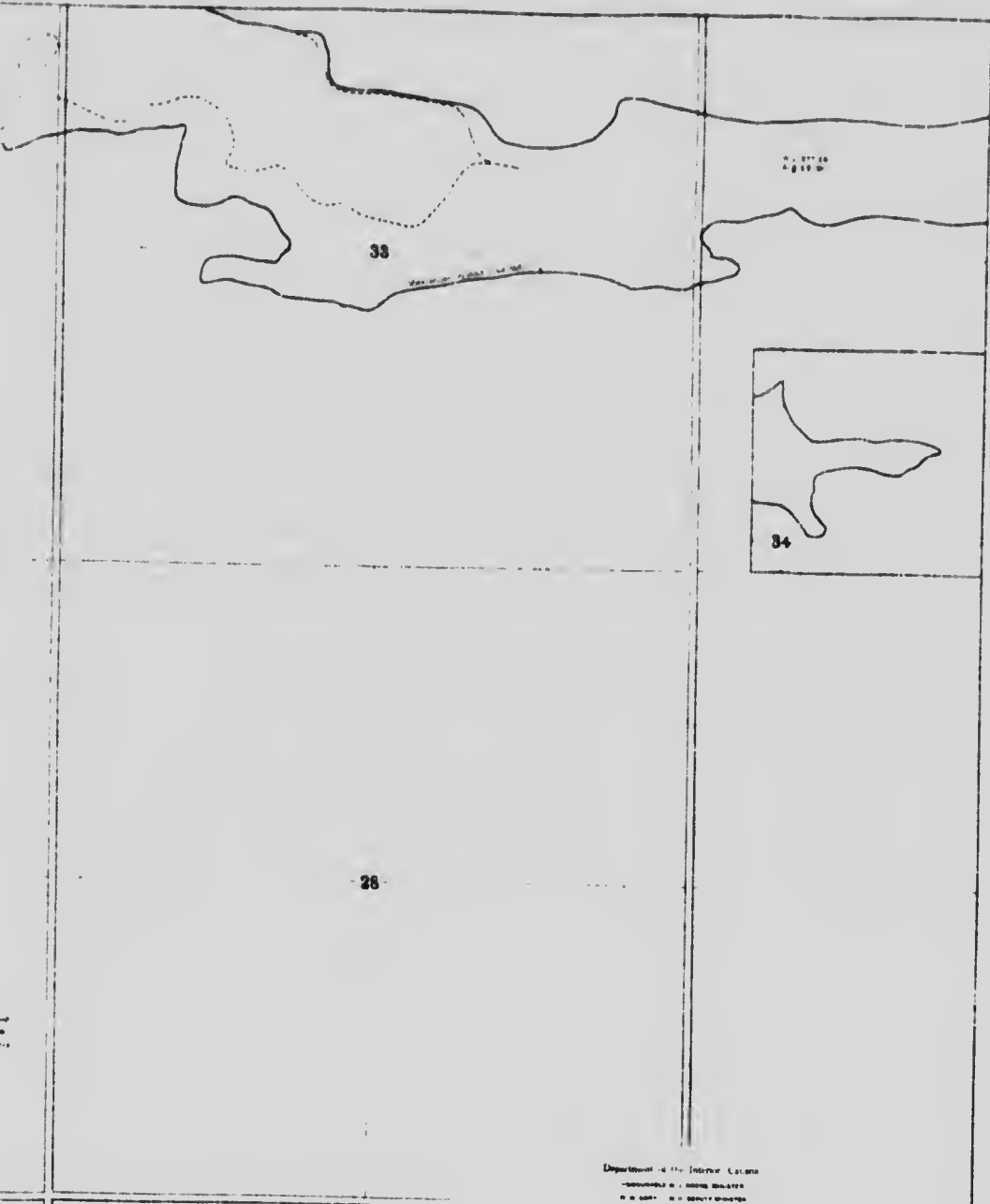


Latitudes and Distances of the map refer to the point of Point du Bois Falls.



29

Note
Condition 10. By the date of recording the
maximum flood line on the right bank the
City of Chicago has a water level of 100 ft.



U. S. 11710
A 1910

33

34

26

Department of the Interior, Canada
 Geological Survey
 Water Power Branch
 Ottawa, Ontario

WINNIPEG RIVER POWER SURVEY.

TOPOGRAPHIC SHEET NO. 51

Scale of Feet



Checked by: J. C. ...
 D. A. ...
 H. J. ...

H. B. ...
 C. B. ...

Township 15, Range 13, E.P.M.

Department of the Interior, Canada
 MINISTRE DES TERRES ET DES RESSOURCES
 MINISTRY OF LANDS AND NATURAL RESOURCES
 Water Power Branch
 100, Queen Street West, Toronto

WINNIPEG RIVER POWER SURVEY.

TOPOGRAPHIC SHEET NO. 52

Scale of Map



Contour Interval

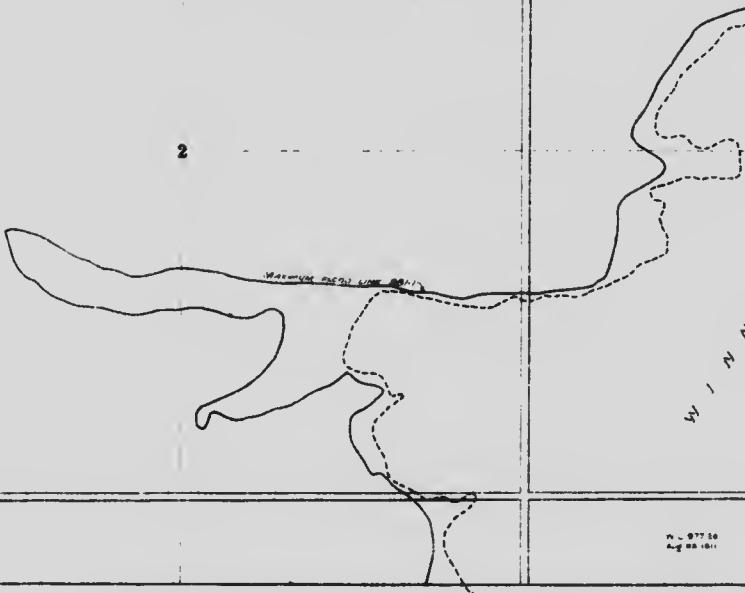
100'	1:10000	1:10000	1:10000
200'	1:5000	1:5000	1:5000
300'	1:3333	1:3333	1:3333
400'	1:2500	1:2500	1:2500
500'	1:2000	1:2000	1:2000
600'	1:1667	1:1667	1:1667
700'	1:1429	1:1429	1:1429
800'	1:1250	1:1250	1:1250
900'	1:1111	1:1111	1:1111
1000'	1:1000	1:1000	1:1000

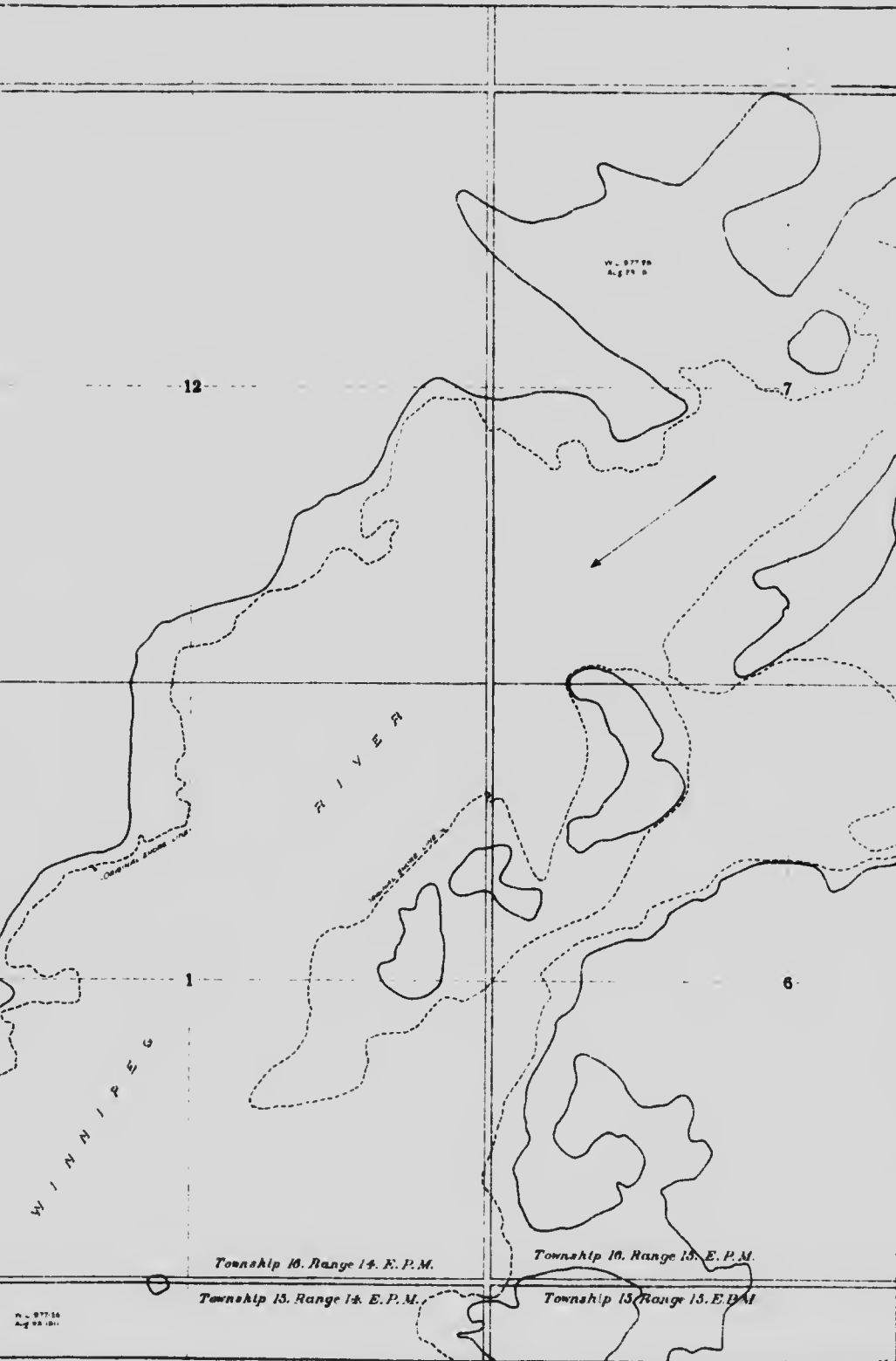
H. B. Parsons
 Chief Geographer

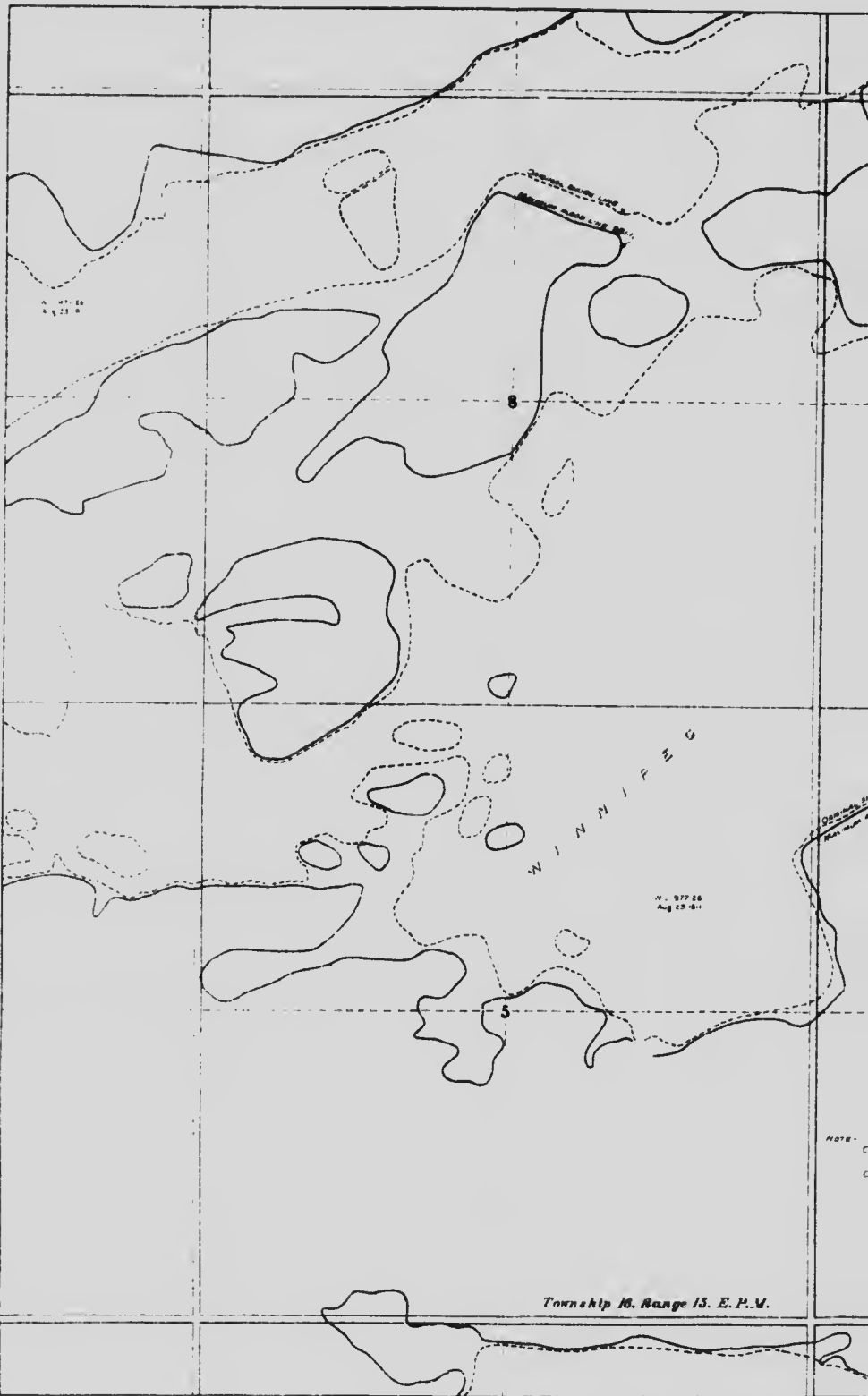
--11--

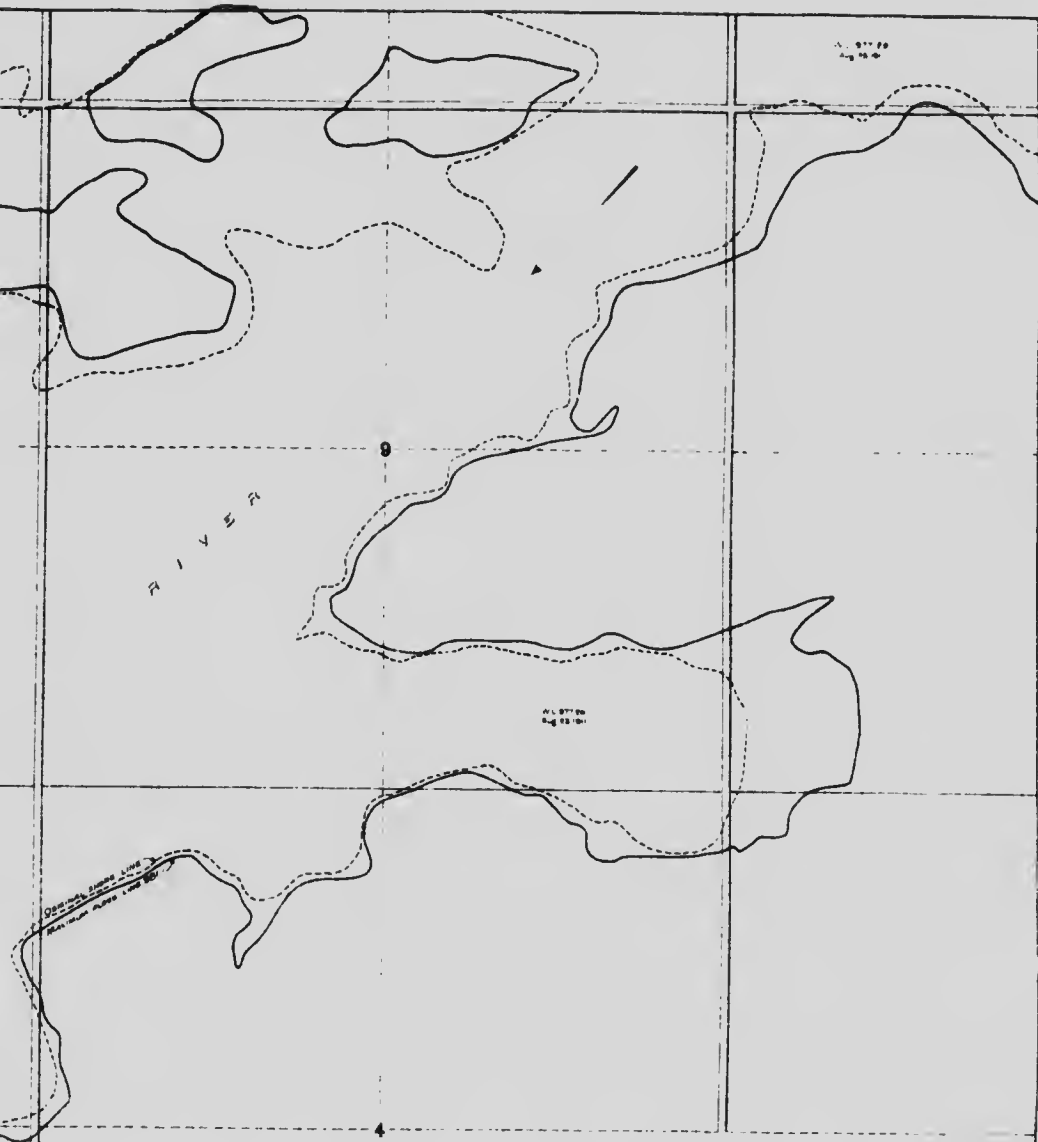
2

NOTE -
 CONTOUR 801 1/2 CITY DAM REPRESENTS THE
 MAXIMUM FLOOD LINE OF THE DAM ABOVE THE
 CITY OF WINNIPEG ABOVE POINT DU BARRÉ









NOTE:
 CONTROL 981 (B.P.C.) DATUM REPRESENTS THE
 NORMAL FLOOD LINE OF THE POND ABOVE THE
 CITY OF WINNIPEG POWER PLANT AT POINT DU BOIS

Department of the Interior, Canada
 MINISTRE DES TERRES ET DES MINES
 WATER POWER BRANCH
 O. P. H. AS SUB-COMMISSIONER

WINNIPEG RIVER POWER SURVEY.

TOPOGRAPHIC SHEET NO. 53

Scale 1:4 Feet



Checked from office surveys by:
 L. H. Parsons D. L. S. 1911 February 1907
 G. W. A. Burtner D. L. S. 1911 November 1908
 W. S. Gilling D. L. S. The Winnipeg 1910
 W. J. Stone D. L. S. 1911 July 1911

H. H. Newman
 Chief Geographer

Township 13, Range 15, E. P.M.

Township 16 Range 15, E. P. M.

20

NOTE
SECTION 17 (P. 17) represents the
maximum flood line of the RC 15 above the
United States High Water Mark of 1919

SECTION 17

17

PLOTTED
AUG 15 1919

Department of the Interior, Canada
Bureau of Land Management
Water Power Branch
Winnipeg, Manitoba

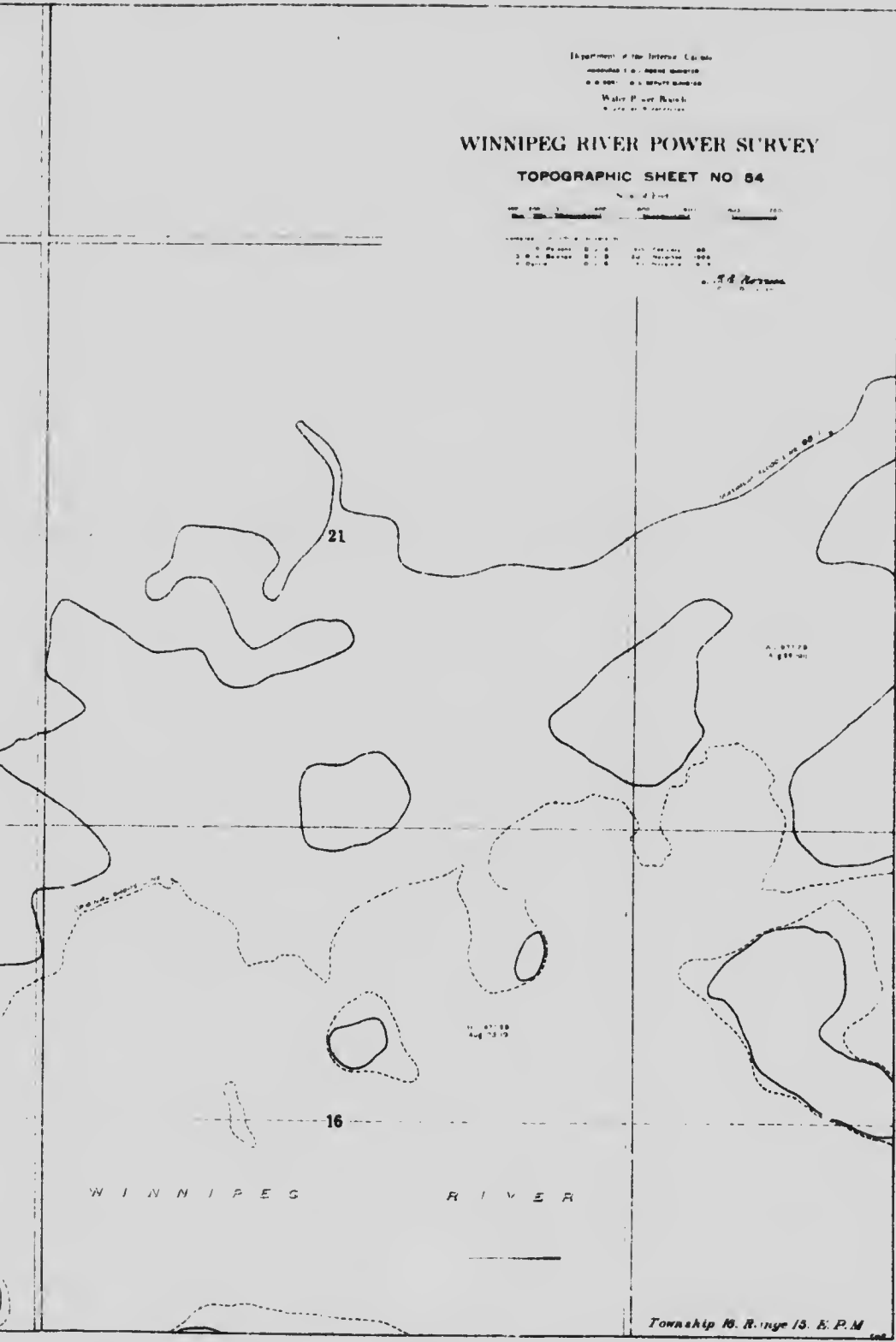
WINNIPEG RIVER POWER SURVEY

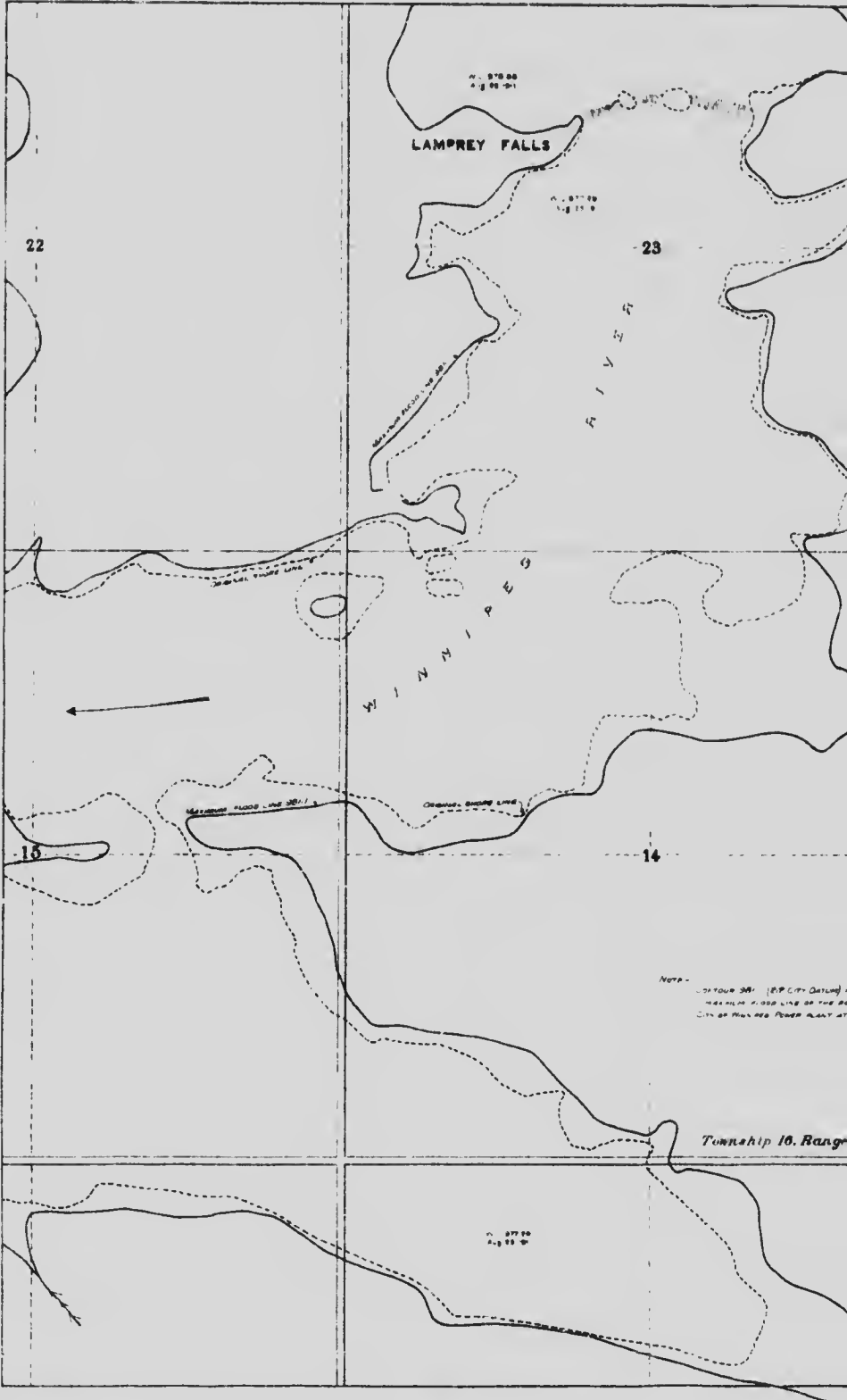
TOPOGRAPHIC SHEET NO 84

Scale of 1:50,000
Map No. 210-1000000-1000000-1000000

Vertical Datum: Mean Sea Level
Horizontal Datum: NAD 83
Projection: UTM
Zone: 18N
Datum: NAD 83
Units: Metres

J. H. Brown
1955





N. 575 00
Aug 28 1911

LAMPREY FALLS

N. 575 00
Aug 28 1911

22

23

LAMPREY RIVER

WINNIPEG RIVER

16

14

Note: - Contour 30' (B.P. City Outline)
- Maximum Flood Line of the B.P. City of Winnipeg Power Plant at

Township 16, Range

N. 575 00
Aug 28 1911



24

13

(D.P.C. Catch) represents the
 1000 LINE OF THE BOUNDARY FOR
 THE POWER PLANT AT POINT DU BOIS

p 10. Range 13. E. P.M.

Department of the Interior Canada
 MINISTÈRE DES TERRES ET DES RESSOURCES
 W. O. COPELTON, DEPUTY MINISTER
 Water Power Branch
 P. O. Box 100, Ottawa

WINNIPEG RIVER POWER SURVEY.

TOPOGRAPHIC SHEET NO. 66

Scale of Feet



WORK OF THE SURVEY CONTROLLED BY:
 J. G. H. Murray D. C. S. 21. Toronto 001
 D. A. H. Beatty D. C. S. 20th. Montreal 002
 H. G. D. D. C. S. 1st. Vancouver 003

A. G. Thomson
 P. O. Box 100, Ottawa



CLASSIFIED LISTS OF REPORTS

The Reports published by the Dominion Water Power Branch with the exception of the Annual Reports, have been called Water Resources Papers, and have been numbered 1, 2, etc.

- Annual Reports previous to 1913 are included with the Annual Report of the Department of the Interior, and can be secured from the Secretary of the Department.
- Annual Report for 1912-13, published 1914. Out of print.
- Annual Report for 1913-14, published 1915.
- Annual Report for 1914-15. In Press.
- WATER RESOURCES PAPER No. 1.**—Report of the Railway Belt Hydrographic Survey for 1911-12, by P. A. Cerson, B.A., D.L.S., Chief Engineer. Published 1914.
- WATER RESOURCES PAPER No. 2.**—Report of Bow River Power and Storage Investigations (Bow river west of Calgary,) by M. C. Hendry, B.A.Sc., Chief Engineer in charge of surveys. Published 1914.
- WATER RESOURCES PAPER No. 3.**—Report on Power and Storage Investigations, Winnipeg river, by J. T. Johnston, B.A.Sc., Chief Hydraulic Engineer, Dominion Water Power Branch. Published 1915.
- WATER RESOURCES PAPER No. 4.**—Report of the Manitoba Hydrographic Survey to end of year 1914, by M. C. Hendry, B.A.Sc., Chief Engineer. In Press.
- WATER RESOURCES PAPER No. 5.**—Preliminary Report on the Pesque Reclamation Project, by T. H. Dunn, C.E., O.L.S., Chief Engineer in charge of Reclamation Survey. Published 1914. Out of print.
- WATER RESOURCES PAPER No. 6.**—Report on cost of various sources of power for pumping in connection with the South Saskatchewan Water Supply Diversion Project, by H. E. M. Kensit, M.I.E.E. and Mem. Am. Inst. E. E. Mem. Can. Soc. C. E. Published 1914. Out of print.
- WATER RESOURCES PAPER No. 7.**—Report on the Manitoba Water Powers, by D. L. McLeen, B. S. Scovill, and J. T. Johnston, compiled for the Manitoba Public Utilities Commission. Published 1914.
- WATER RESOURCES PAPER No. 8.**—Report of the British Columbia Hydrographic Survey for 1913, by R. G. Swan, B.A.Sc., Chief Engineer. Published 1915.
- WATER RESOURCES PAPER No. 9.**—Report of Red River Navigation Surveys, by S. S. Scovill, B.Sc., Assistant Chief Engineer of Manitoba Hydrographic Survey. In course of preparation.
- WATER RESOURCES PAPER No. 10.**—General Guide for Completion of Water Power Reports of Dominion Water Power Branch, prepared by J. T. Johnston, B.A.Sc., Chief Hydraulic Engineer. Published 1915. Limited edition.
- WATER RESOURCES PAPER No. 11.**—Final Report on the Pesque Reclamation Project, by T. H. Dunn, C.E., O.L.S., Chief Engineer in charge of Reclamation Survey. Published 1915.
- WATER RESOURCES PAPER No. 12.**—Report on Small Water Powers in Western Canada, and discussion of sources of power for the Farm, by A. M. Beale, B.Sc. Published 1915.
- WATER RESOURCES PAPER No. 13.**—Report on the Coquitlam-Buntzen Hydro-Electric Development, by G. R. G. Conway, M. Inst. C.E., M. Can. Soc. C.E., Chief Engineer of the British Columbia Electric Railway Company, Limited. In press.
- WATER RESOURCES PAPER No. 14.**—Report of the British Columbia Hydrographic Survey for 1914 by R. G. Swan, B.A.Sc., Chief Engineer. Published 1915.
- WATER RESOURCES PAPER No. 15.**—Report on the Water Powers of Alberta and Saskatchewan by C. H. Attwood, O.L.S., Chief Engineer Alberta and Saskatchewan Power Surveys. In course of preparation.
- WATER RESOURCES PAPER No. 16.**—Water Powers of Canada. A series of five pamphlets in one volume covering the water power situation in Canada prepared for distribution at the Panama-Pacific Exposition, San Francisco, 1915, by G. R. G. Conway, Consulting Engineer, Toronto, Percival H. Mitchell, E.E., Consulting Engineer, Toronto, H. G. Acres, Hydraulic Engineer Hydro-Electric Power Commission Ontario, F. T. Keelin, Asst. Chief Engineer Shawenagen Power Co., Montreal, Quebec, K. H. Smith, Engineer, Nova Scotia Water Power Commission, Halifax, N.S. Published 1915.
- WATER RESOURCES PAPER No. 17.**—Canadian Hydraulic Power Development and Electric Power in Canadian Industry, by Charles H. Mitchell, C.E., Consulting Engineer to Dominion Water Power Branch.

