

W.O. S4-F-2

TRENT RIVER

+ HWY. 401

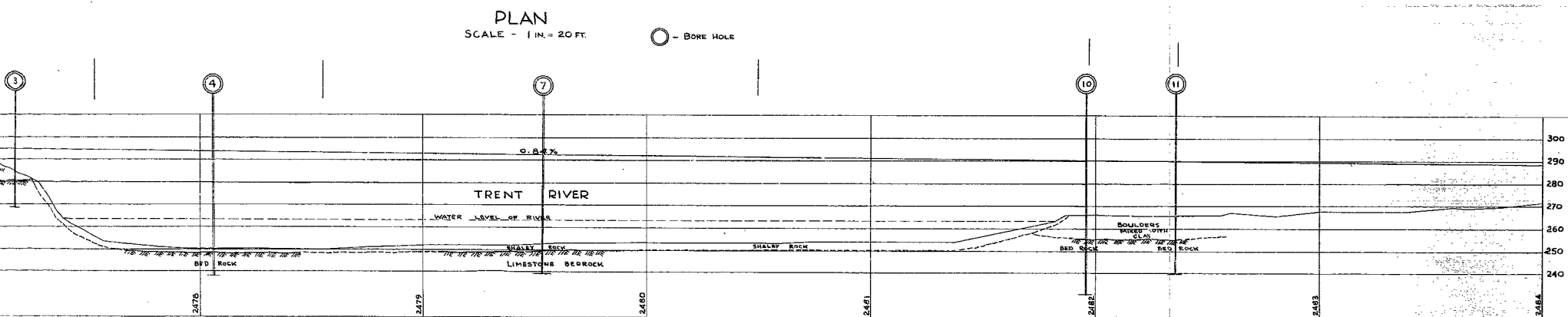
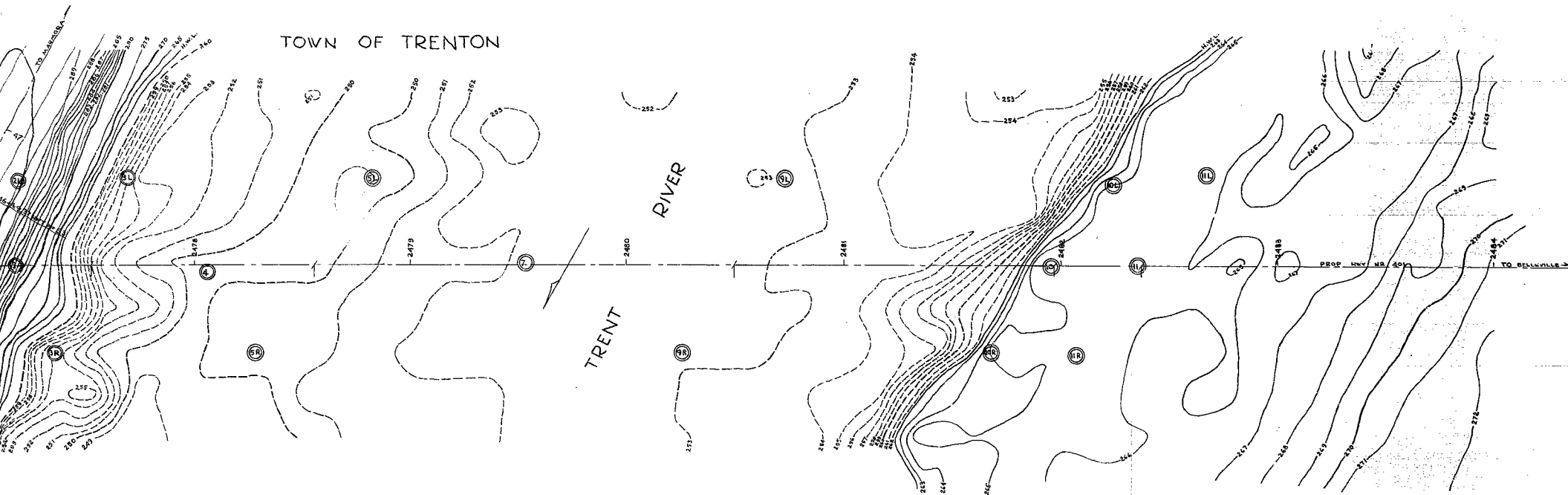
31C-42

TOWN OF TRENTON



CO. OF NORTHUMBERLAND
TWP. OF MURRAY

TOWN OF TRENTON

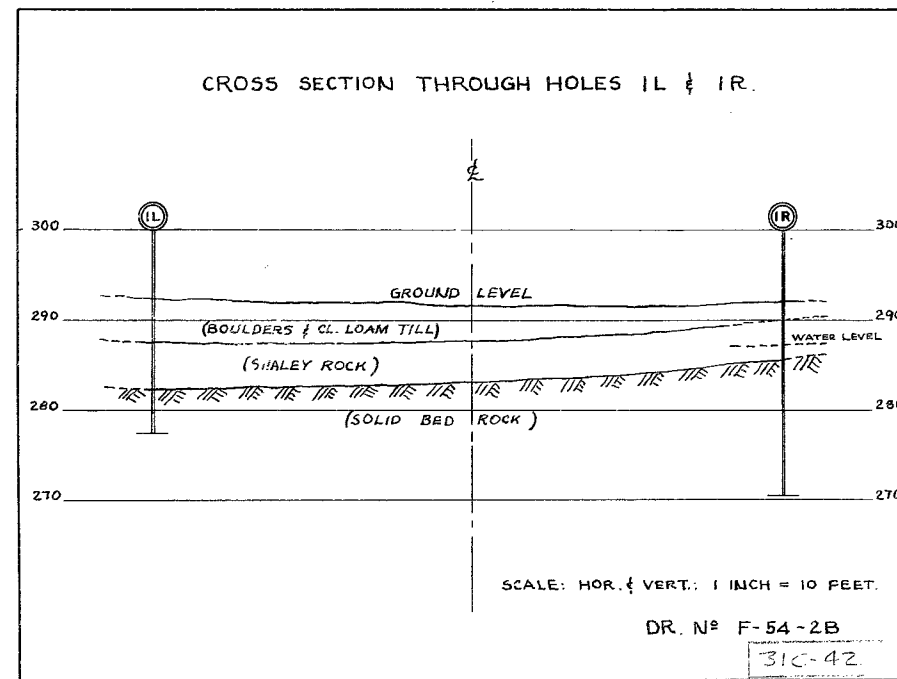


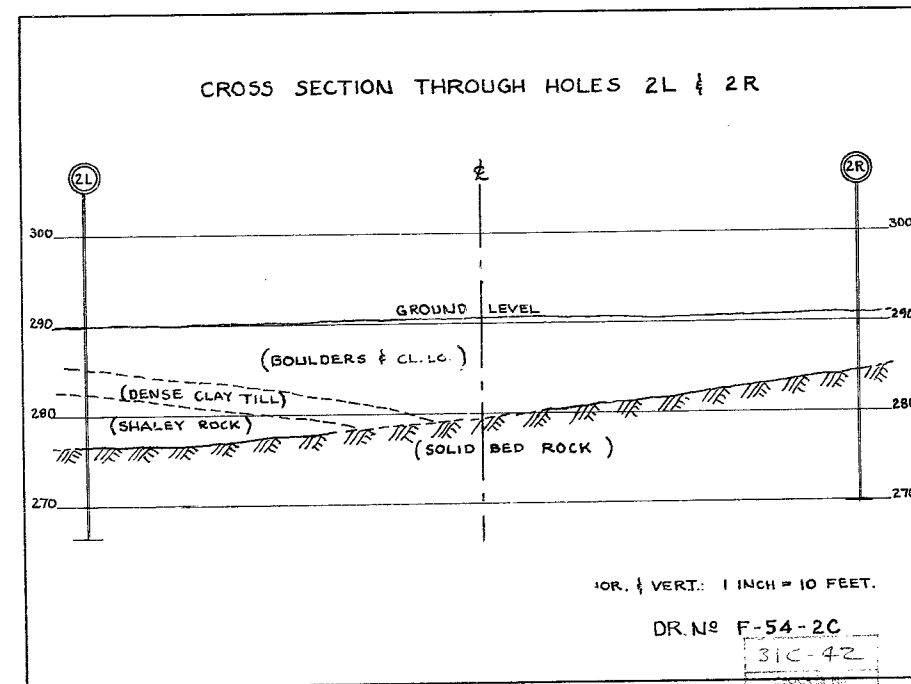
ONTARIO DEPARTMENT OF HIGHWAYS
TRENT RIVER
PLOT PLAN & SOIL STRATIGRAPHY
DR. NO F-54-2A

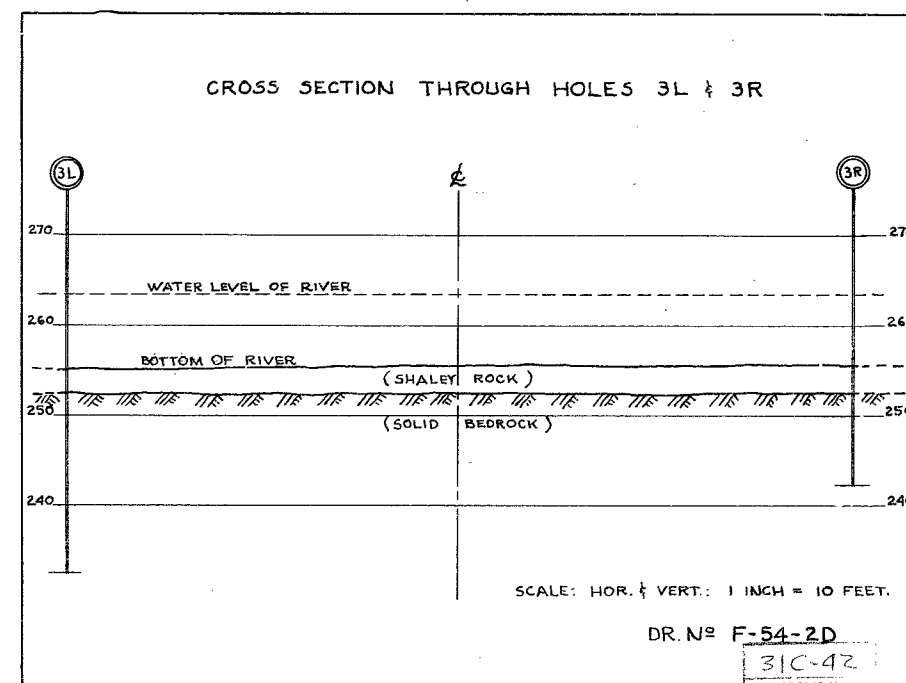
SECTIONS
1-2 SIC-42

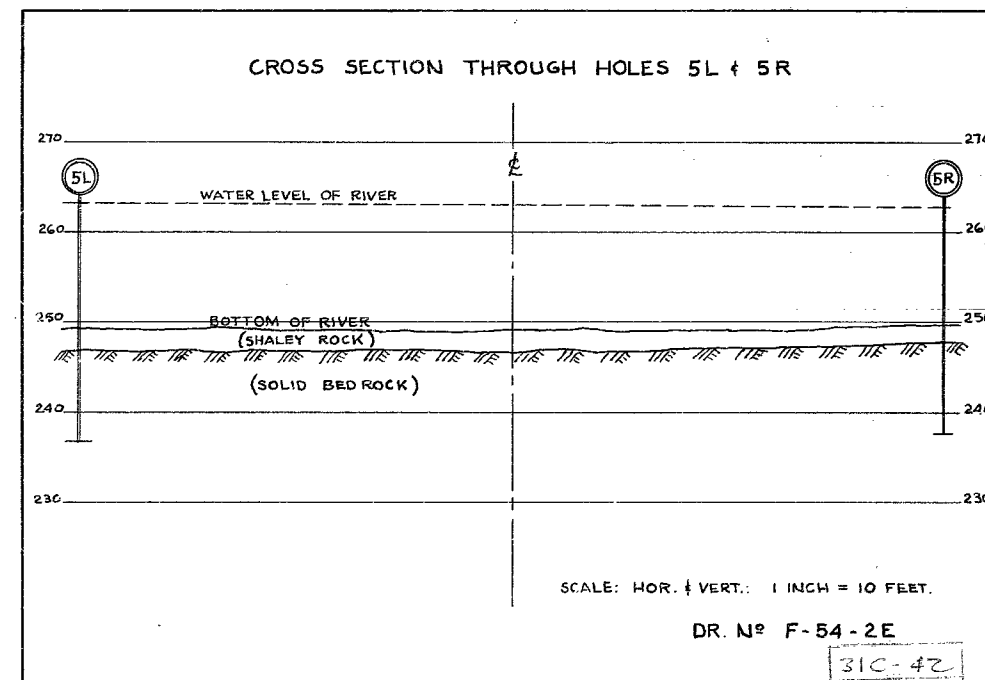
SIC-42

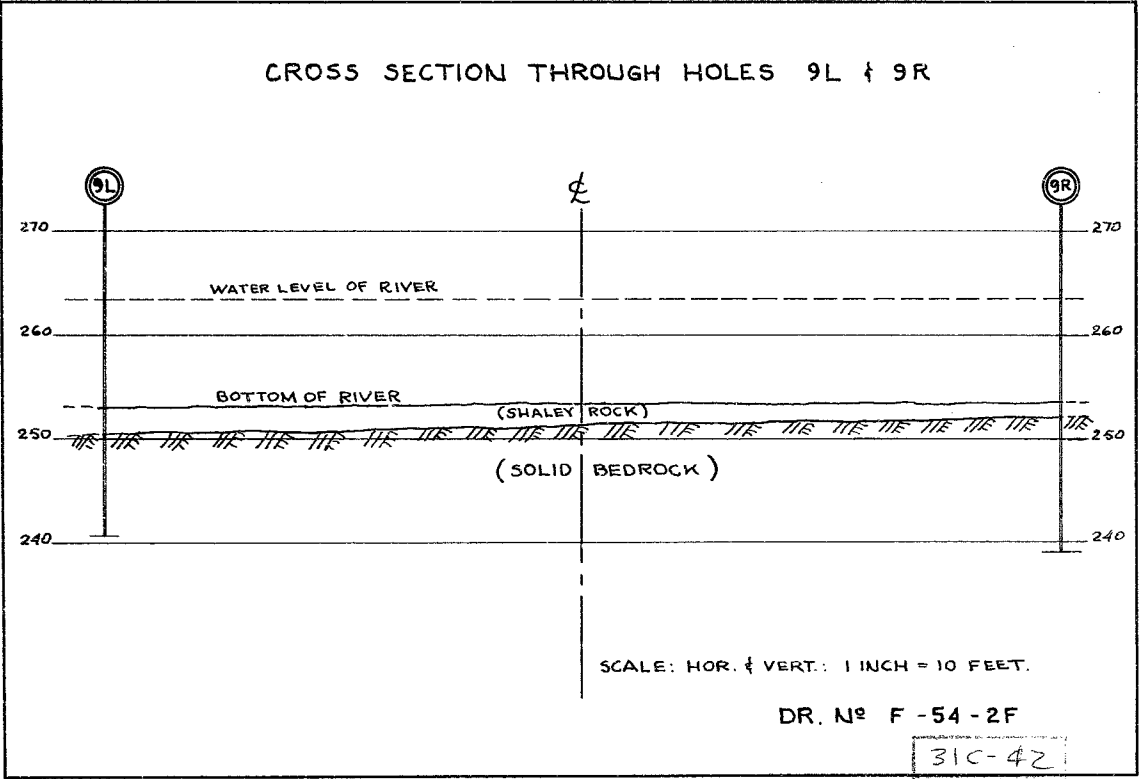
2



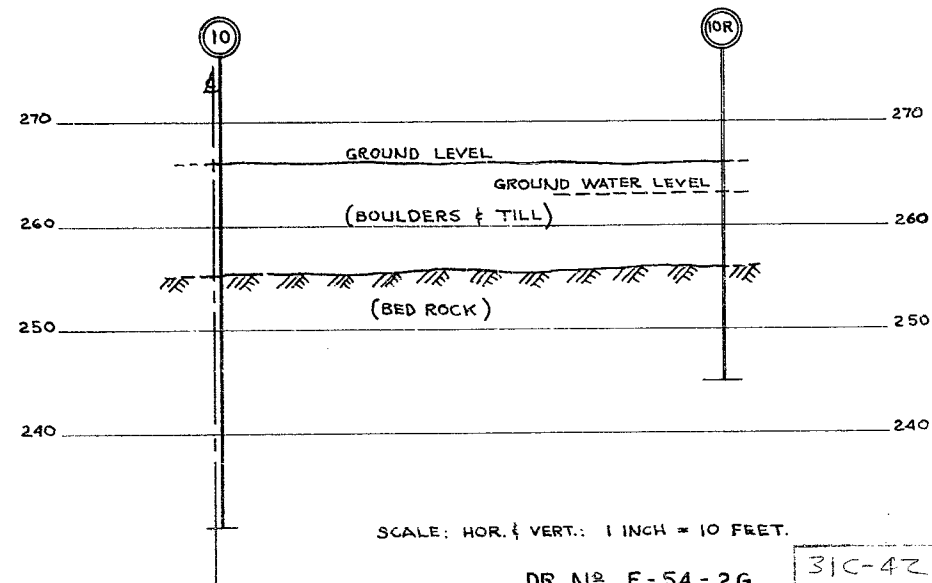








CROSS SECTION THROUGH HOLES 10 & 10R

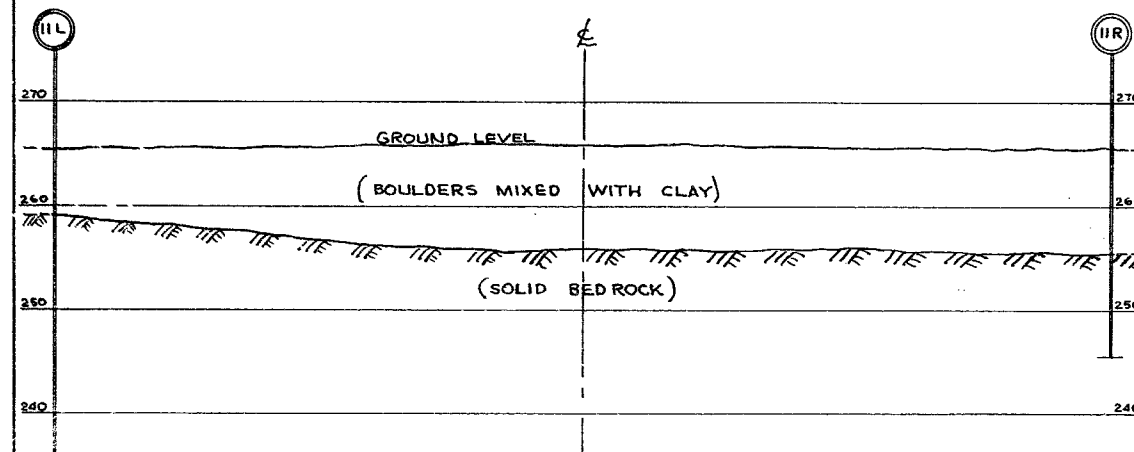


SCALE: HOR. & VERT.: 1 INCH = 10 FEET.

DR. N^o F-54-2G

31C-42
3-2-58

CROSS SECTION THROUGH HOLES 11L & 11R



SCALES: HOR. & VERT.: 1 INCH = 10 FEET.

DR. N° F-54-2H

31C-42

GEOPHYSICAL

JOB F54-2 BORING NO 3
 DATUM Good 28' STN 2977+16.7 ft DATE REPORT 21st JUNE 1964
 COMPILED BY W.W. CHECKED BY G.N.F. BORING DATE 28th MAY 1964

ABBREVIATIONS

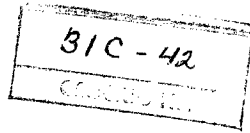
V-INSITU VANE SHEAR TEST	γ-UNIT WEIGHT
M-MECHANICAL ANALYSIS	K-PERMEABILITY
U-UNCONFINED COMPRESSION	C-CONSOLIDATION
Q _c -TRIAXIAL CONSOLIDATED QUICK	CA-CASING
Q-TRIAXIAL QUICK	WL-WATER LEVEL IN CASING
S-TRIAXIAL SLOW	WT-WATER TABLE IN SOIL

SAMPLES

[illegible]

MATERIALS LABORATORY - DEPARTMENT OF HIGHWAYS - ONTARIO													
OFFICE REPORT ON SOIL EXPLORATION													
PL. 115 54-90		JOB <u>F 54-2</u> BORING NO. <u>10</u> Casing <u>BY</u> (STANDARD SAMPLERS TO FIT UNLESS NOTED) DATE REPORT <u>21 June 1954</u> SAMPLER HAMMER WT. <u>6</u> DROP <u>15</u> INCHES COMPILED BY <u>K.W.</u> CHECKED BY <u>S.H.E.</u> BORING DATE <u>7-8 May 1954</u>						GEORES No. <u>31 C-42</u>					
SAMPLE CONDITION		SAMPLE TYPES				ABBREVIATIONS							
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> DISTURBED GOOD LOST </div> <div style="width: 60%;"> C.S. - CHUNK D.O. - DRIVE OPEN D.F. - DRIVE FOOT VALVE T.O. - THIN WALLED OPEN W.S. - WASHED SAMPLE R.C. - ROCK CORE </div> </div>		V - IN SITU VANE SHEAR TEST M - MECHANICAL ANALYSIS U - UNCONFINED COMPRESSION G _c - TRIAXIAL CONSOLIDATED QUICK Q - TRIAXIAL QUICK S - TRIAXIAL SLOW W - UNIT WEIGHT K - PERMEABILITY C - CONSOLIDATION CA - CASING WL - WATER LEVEL IN CASING WT - WATER TABLE IN SOIL											
SOIL PROFILE		SHEAR STRENGTH		WATER CONTENT		SAMPLES							
ELEV. DEPTH	WATER CONDITIONS	DESCRIPTION	STRAT. PLOT	ELEVATION SCALE	PENETRATION TEST RESISTANCE BLOWS PER FOOT	D.P.W.	Δ LV	OTHER TESTS	CONDITION	TYPE	NO.	PENETRATION RESISTANCE	ELEV. RECOVER.
265.8 5		Top Soil		0									
		Loam Till with Boulders		4									
				8									
				12									
				16									
				20									
				24									
				28									
				32									
				36									
				40									
				44									
				48									
				52									
				56									
				60									
				64									
				68									
				72									
				76									
				80									
				84									
				88									
				92									
				96									
				100									
				104									
				108									
				112									
				116									
				120									
				124									
				128									
				132									
				136									
				140									
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				148									
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				160									
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				184									
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				212									
				216									
				220									
				224									
				228									
				232									
				236									
				240									
				244									
				248									
				252									
				256									
				260									
				264									
				268									
				272									
				276									
				280									
				284									
				288									
				292									
				296									
				300									
				304									
				308									
				312									
				316									
				320									
				324									
				328									
				332									
				336									
				340									
				344									
				348									
				352									
				356									
				360									
				364									
				368									
				372									
				376									
				380									
				384									
				388									
				392									
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				400									
				404									
				408									
				412									
				416									
				420									
				424									
				428									
				432									
				436									
				440									
				444									
				448									
				452									
				456									
				460									
				464									
				468									
				472									
				476									
				480									
				484									
				488									
				492									
				496									
				500									
				504									
				508									

<small>TL 115 54-90</small> MATERIALS LABORATORY - DEPARTMENT OF HIGHWAYS - ONTARIO OFFICE REPORT ON SOIL EXPLORATION									
<small>DRILL RIG</small> <u>L</u> <small>CASING</small> <u>8X</u> (STANDARD SAMPLERS TO FIT UNLESS NOTED) <small>SAMPLER HAMMER</small> <u>WT</u> <u>8</u> <small>DROP</small> <u>INCHES</u>				<small>JOB</small> <u>F 54-2</u> <small>DATUM</small> <u>266.8</u> <small>SYMBOL</small> <u>266.8</u> <small>COMPILED BY</small> <u>JL</u> <small>CHECKED BY</small> <u>GL</u>		<small>BORING NO.</small> <u>11</u> <small>DATE REPORT</small> <u>21 June 1964</u> <small>BORING DATE</small> <u>2 May 1964</u>			
<small>SAMPLE CONDITION</small> <div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div> <small>DISTURBED</small> <small>GOOD</small> <small>LOST</small> </div> </div>		<small>SAMPLE TYPES</small> <div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div> <small>CS - CHUNK</small> <small>D.O. - DRIVE OPEN</small> <small>D.F. - DRIVE FOOT VALVE</small> <small>T.O. - THIN WALLED OPEN</small> </div> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div> <small>VS - WASHED SAMPLE</small> <small>R.C. - ROCK CORE</small> </div> </div>		<small>ABBREVIATIONS</small> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <small>V - INSITU VANE SHEAR TEST</small> <small>M - MECHANICAL ANALYSIS</small> <small>U - UNCONFINED COMPRESSION</small> <small>Q_c - TRIAXIAL CONSOLIDATED QUICK</small> <small>Q - TRIAXIAL QUICK</small> <small>S - TRIAXIAL SLOW</small> </div> <div style="width: 50%;"> <small>γ - UNIT WEIGHT</small> <small>K - PERMEABILITY</small> <small>C - CONSOLIDATION</small> <small>CA - CASING</small> <small>WL - WATER LEVEL IN CASING</small> <small>WT - WATER TABLE IN SOIL</small> </div> </div>					
SOIL PROFILE				SHEAR STRENGTH <small>TONS/SQ. FT. OR Q_{u/2}</small>		WATER CONTENT <small>W %</small>		SAMPLES	
ELEV. DEPTH	WATER CONDITIONS	DESCRIPTION	START PLOT ELEVATION SCALE	PENETRATION TEST RESISTANCE BLOWS PER FOOT	D P.W.	Δ LV	OTHER TESTS	CONDITION	TYPE
266.8 0		BOULDERS MIXED WITH CLAY	0						
			2						
			4						
			6						
			8						
			10						
			12						
			14						
			16						
			18						
265.3 10.5		BEDROCK	20						
			22						
			24						
			26						
			28						
			30						
			32						
			34						
			36						
			38						
260.3 26.5		END OF HOLE	40						



Report
of
Foundation Investigation
Highway #401
at
Trent River

31C-42

Copies to: Mr. H. Lamont
Bridge Engineer (2)

Mr. J. Walter
Construction Engineer (1)

Project F-54-2

Mr. C. Fraser
Division Engineer, Division #6 (1)

Introduction

The subsurface exploration for the Trent River bridge site was started May 4th and completed by June 21st.

The above work was a continuation of the exploration done by Division 42 during the winter months.

The elevation of the bedrock given from the logs of the boreholes submitted to the Soils Laboratory from Division 42 did not agree with our observations and the whole job was repeated.

The Soil profile along the outer line of the proposed site is seen on Dr. F54-2A.

Appendix I contains the logs of the individual boreholes.

Appendix II gives the cross-section for the positions 2476/53; 2476/96.5; 2477/52; 2478/55.5; 2480/49.5; 2481/97; 2482/37 along centre line of the proposed highway.

Soil Profile

On both the river shores a layer of 5 to 8 feet of boulders mixed with clay overlies the bedrock.

On the river bed 1 to 2 feet of very shaley rock overlies the bedrock.

The bedrock is a fairly sound limestone with a slight shaley nature.

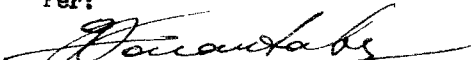
Recommendations

The footings should be brought to the rock.

On the river bed where the footings will be placed, the shaley rock for about 2 feet should be removed.

The limestone bedrock should carry about 10 tons per square foot. If more accurate bearing value is desired, load test on the rock should be performed.

F. G. Brownridge
Materials and Research Engineer
Per:


(G. Farantatos)

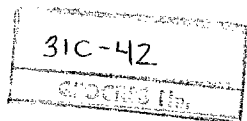


ONTARIO
DEPARTMENT OF HIGHWAYS

BA 351

E 2798-1

March 4/54.
1200 Sheppard Ave.



BRIDGE OFFICE

All holes completed except #1, 1R, 1L, and holes #11, 11R, 11L, & holes #2, 2R, & 2L. These holes will follow when work completed. All holes left to drill are on river banks.

John Beck
Core Driller

BA 351

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE March 4/54.

BRIDGE Trent River

HOLE NO. 3 ELEV. TOP OF HOLE 263.2

ROAD NO. 401 FROM Trenton TO Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE

TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office
	5'	
9.0	10'	
	15'	
Layers of flat Rock, clay, <i>between</i> bitumen	20'	
	25'	
	30'	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE March 4/54.

BRIDGE Trent River

HOLE NO. 4 ELEV. TOP OF HOLE 263.2

ROAD NO. 401 FROM Trenton TO Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE

TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office.
	5'	
12.0	10'	
Layers of Flat Stone, clay bitumen <i>between</i>	15'	
	20'	
	25'	
	30'	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION No. 8

CORE DRILL No. 1

DATE March 4/54.

BRIDGE Trent River HOLE No. 5 ELEV. TOP OF HOLE 263.2

ROAD No. 401 FROM Trenton TO Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE

TOTAL DEPTH. 50.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
	0	
Water	5'	As per plan from
12.0	10'	D.H.O. Bridge Office.
Flat stones, clay, <i>between</i> bitumen	15'	
	20'	
	25'	
	30'	
	35'	
	40'	
	45'	
50.0	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Buck

OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE March 4/54.

BRIDGE Trent River HOLE NO 6 ELEV. TOP OF HOLE 263.2

ROAD NO 401 FROM Trenton TO Belleville

LOT 3 CON. 2 TWP Murry CO. Northumberland

CHAINAGE _____ TOTAL DEPTH 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
	0	As per plan from D.H.O. Bridge Office
Water	5'	
	11.0	
	10'	
	15'	
	20'	
Layers of flat stones, clay	25'	
allumen <i>between</i>	30'	
35.0	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE. March 2/54

BRIDGE. Trent River HOLE NO. 7 ELEV. TOP OF HOLE 263.2

ROAD NO. 401 FROM. Trenton TO. Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE. _____ TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office.
	5'	
10.0	10'	
	15'	
Flat Stone Clay <i>between</i>	20'	
Bitumen Stone	25'	
	30'	
35.0	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE March 2/54

BRIDGE Trent Canal HOLE NO. 8 ELEV. TOP OF HOLE 263.2

ROAD NO. 401 FROM Trenton TO Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
	0'	As per plan from D.H.O. Bridge Office.
	5'	
11.0	10'	
	15'	
	20'	
Clay Bitumen, layers of flat stone	25'	
30.0	30'	
Flat Stone, Sandy Gravel, Bitumen <i>Bitumen</i>	35.0	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED John Beck
OPERATOR.

BORING DATA.

DIVISION No. 8

CORE DRILL No. 1

DATE March 4/54

BRIDGE Trent River

HOLE No. 9 ELEV. TOP OF HOLE 263.2

ROAD No. 401

FROM Trenton

TO Belleville

LOT 3

CON. 2

TWP. Murry

CO. Northumberland

CHAINAGE _____

TOTAL DEPTH. 50.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office.
	5'	
11.0	10'	
<i>between</i>	15'	
Flat Stones, Gravel, stones	20'	
	25'	
30.0	30'	
<i>between</i>	35'	
Flat Stones, clay, stones	40'	
	45'	
50.0	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION NO. _____

CORE DRILL NO. 1

DATE. March 4/54.

BRIDGE Trent Canal

HOLE NO. 10

ELEV. TOP OF HOLE 263.2

ROAD NO. 401

FROM Trenton

TO Belleville

LOT. 3

CON. 2

TWP. Murry

CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 47.0

MATERIAL		DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	1.6	0	As per plan from D.H.O. Bridge Office.
		5'	
Layers of Flat Stone		10'	
Clay <i>between</i>		15'	
		20'	
		25'	
		30'	
		35'	
		40'	
	47.0	45'	
		50'	
		55'	
		60'	
		65'	
		70'	
		75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8 CORE DRILL NO. 1
DATE March 4/54.
BRIDGE Trent River HOLE NO 3 L. ELEV. TOP OF HOLE 263.2
ROAD NO 401 FROM Trenton TO Belleville
LOT 3 CON. 2 TWP Murry CO. Northumberland
CHAINAGE _____ TOTAL DEPTH 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0	As per plan from D.H.O. Bridge Office.
	5'	
10.0	10'	
Flat Stones, clay <i>between</i>	15'	
Bitumen	20'	
	25'	
	30'	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE March 4/54.

BRIDGE Trent Canal

HOLE NO. 4 L ELEV. TOP OF HOLE 263.2

ROAD NO. 401 FROM Trenton TO Belleville

LOT. 3 CON. 2 TWP. Murray CO. Northumberland

CHAINAGE

TOTAL DEPTH. 55.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
	0'	As per plan from D.H.O. Bridge Office
Water	5'	
10.0	10'	
Layers of Flat Rock	15'	
Clay Between <i>between</i>	20'	
Strong Spring at 20 ft.	25'	
	30'	
	35'	
	40'	
	45'	
	50'	
55.0	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE. March 4/54

BRIDGE. Trent River HOLE NO. 5 L ELEV. TOP OF HOLE 263.2

ROAD NO. 401 FROM. Trenton TO. Belleville

LOT. 3 CON. 2 TWP. Murr. CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 50.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office.
	5'	
10.0	10'	
	15'	
	20'	
Flat Rock Layers	25'	
of Clay between <i>between</i>	30'	
	35'	
	40'	
	45'	
50.0	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION No. 8

CORE DRILL No. 1

DATE March 4/54.

BRIDGE Trent River

HOLE No. 6L ELEV. TOP OF HOLE 263.2

ROAD No. 401 FROM Trenton TO Belleville

LOT 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE

TOTAL DEPTH 40.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office.
	5'	
10.0	10'	
	15'	
Flat Rock Clay	20'	
<i>between</i> Bitumen Layers	25'	
	30'	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE. _____

BRIDGE Trent River

HOLE NO 7L

ELEV. TOP OF HOLE 263.2

ROAD NO 401

FROM Trenton

TO Belleville

LOT 3

CON. 2

TWP Murry

CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0	As per plan from D.H.O. Bridge Office.
	5'	
10.0	10'	
Flat Layers of Rock	15'	
Layers of clay <i>between</i> bitumen	20'	
	25'	
	30'	
35.0	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Buck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE March 4/54.

BRIDGE Trent River

HOLE NO 8L ELEV. TOP OF HOLE 263.2

ROAD NO 401 FROM Trenton TO Belleville

LOT 3 CON. 2 TWP Murry CO. Northumberland

CHAINAGE

TOTAL DEPTH 40.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
	0'	As per plan from D.H.O. Bridge Office.
Water	5'	
<u>12.0</u>	10'	
Flat Rock Clay <i>between</i>	15'	
Between layers of rock	20'	
	25'	
	30'	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE March 4/54.

BRIDGE Trent River

HOLE NO 9L

ELEV. TOP OF HOLE 263.2

ROAD NO 401

FROM Trenton

TO Belleville

LOT 3

CON. 2

TWP Murry

CO. Northumberland

CHAINAGE

TOTAL DEPTH 60.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
	0	As per plan from D.H.O. Bridge Office.
Water	5'	
10.0	10'	
	15'	
Flat Stones, clay <i>between</i> between	20'	
	25'	
Stones	30'	
	35'	
	40'	
	45'	
	50'	
	55'	
60.0	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE. March 4/54.

BRIDGE E Trent River

HOLE NO 10 L ELEV. TOP OF HOLE 263.2

ROAD NO 401 FROM Trenton TO Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	3.0	As per plan from D.H.O. Bridge Office.
	5'	
	10'	
Layers flat stone	15'	
clay between <i>between</i>	20'	
	25'	
	30'	
	35.0	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Buck
OPERATOR.

BORING DATA.

DIVISION NO. _____

CORE DRILL NO. 1

DATE March 4/54.

BRIDGE Trent River

HOLE NO 3 R

ELEV. TOP OF HOLE 263.2

ROAD NO 401

FROM Trenton

TO Belleville

LOT 3

CON. 2

TWP Murry

CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office.
	5'	
9.0	10'	
	15'	
Layers flat Rock	20'	
Clay between between	25'	
	30'	
35.0	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John R. B. A.
OPERATOR.

BORING DATA.

DIVISION NO. 42

CORE DRILL NO. 1

DATE March 4/54.

BRIDGE Trent River

HOLE NO. 4R

ELEV. TOP OF HOLE 263.2

ROAD NO. 401

FROM Trenton

TO Belleville

LOT. 3

CON. 2

TWP. Murry

CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office.
	5'	
<u>11.0</u>	10'	
	15'	
Layers flat stone	20'	
Clay Between <u>between</u>	25'	
	30'	
<u>35.0</u>	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO 1

DATE March 4/54.

BRIDGE Trent River

HOLE NO 5 R ELEV. TOP OF HOLE 263.2

ROAD NO 401 FROM M Trenton TO Belleville

LOT 3 CON. 2 TWP Murry CO Northumberland

CHAINAGE

TOTAL DEPTH 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0	As per plan from D.H.O. Bridge Office.
	5'	
9.0	10'	
	15'	
Layers flat Rock	20'	
Clay between <i>between</i>	25'	
	30'	
35.0	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED John Buck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE. March 4/54.

BRIDGE. Trent River

HOLE NO. 6 R

ELEV. TOP OF HOLE 263.2

ROAD NO. 401

FROM. Trenton

TO. Belleville

LOT. 3

CON. 2

TWP. Murry

CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 25.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office
	5'	
10.0	10'	
	15'	
Layers flat rock	20'	
Clay Bitumen <i>between</i>	25'	
25.0	30'	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE. March 4/54.

BRIDGE. Trent River

HOLE NO. 7 R ELEV. TOP OF HOLE 263.2

ROAD NO. 401 FROM. Trenton TO. Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0'	As per plan from D.H.O. Bridge Office.
	5'	
<u>10.0</u>	10'	
	15'	
Layers of Rock	20'	
Clay between <u>between</u>	25'	
	30'	
<u>35.0</u>	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck
OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE March 4/54.

BRIDGE Trent River

HOLE NO. 8 R ELEV. TOP OF HOLE 263.2

ROAD NO. 401 FROM Trenton TO Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE

TOTAL DEPTH. 35.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0	As per plan from D.H.O. Bridge Office.
	5'	
8.6	10'	
Layers flat Rock	15'	
Clay Between <i>Between</i>	20'	
	25'	
	30'	
35.0	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED John Buck
OPERATOR.

BORING DATA.

DIVISION No. 8

CORE DRILL No. 1

DATE March 4/54.

BRIDGE Trent River HOLE No. 9R ELEV. TOP OF HOLE 263.2

ROAD No. 401 FROM Trenton TO Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE

TOTAL DEPTH. 30.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water	0	As per plan from D.H.O. Bridge Office.
	5'	
9.0	10'	
Layers of Flat Rock	15'	
Clay Bitumen <i>between</i>	20'	
	25'	
30.0	30'	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED

John Beck

OPERATOR.

BORING DATA.

DIVISION NO. 8

CORE DRILL NO. 1

DATE. March 4/54.

BRIDGE. Trent River

HOLE NO 10 R ELEV. TOP OF HOLE 263.2

ROAD NO 401 FROM. Trenton TO. Belleville

LOT. 3 CON. 2 TWP. Murry CO. Northumberland

CHAINAGE. _____

TOTAL DEPTH. 20.0

MATERIAL	DEPTH	SKETCH SHOWING LOCATION OF HOLES (IF LARGER SPACE REQUIRED USE BACK OF SHEET)
Water 2.0	0	As per plan from D.H.O. Bridge Office.
	5'	
Layers of Rock	10'	
Clay between <i>between</i>	15'	
20.0	20'	
	25'	
	30'	
	35'	
	40'	
	45'	
	50'	
	55'	
	60'	
	65'	
	70'	
	75'	

SIGNED John Beck
OPERATOR.