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55-F-61

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HWY 401

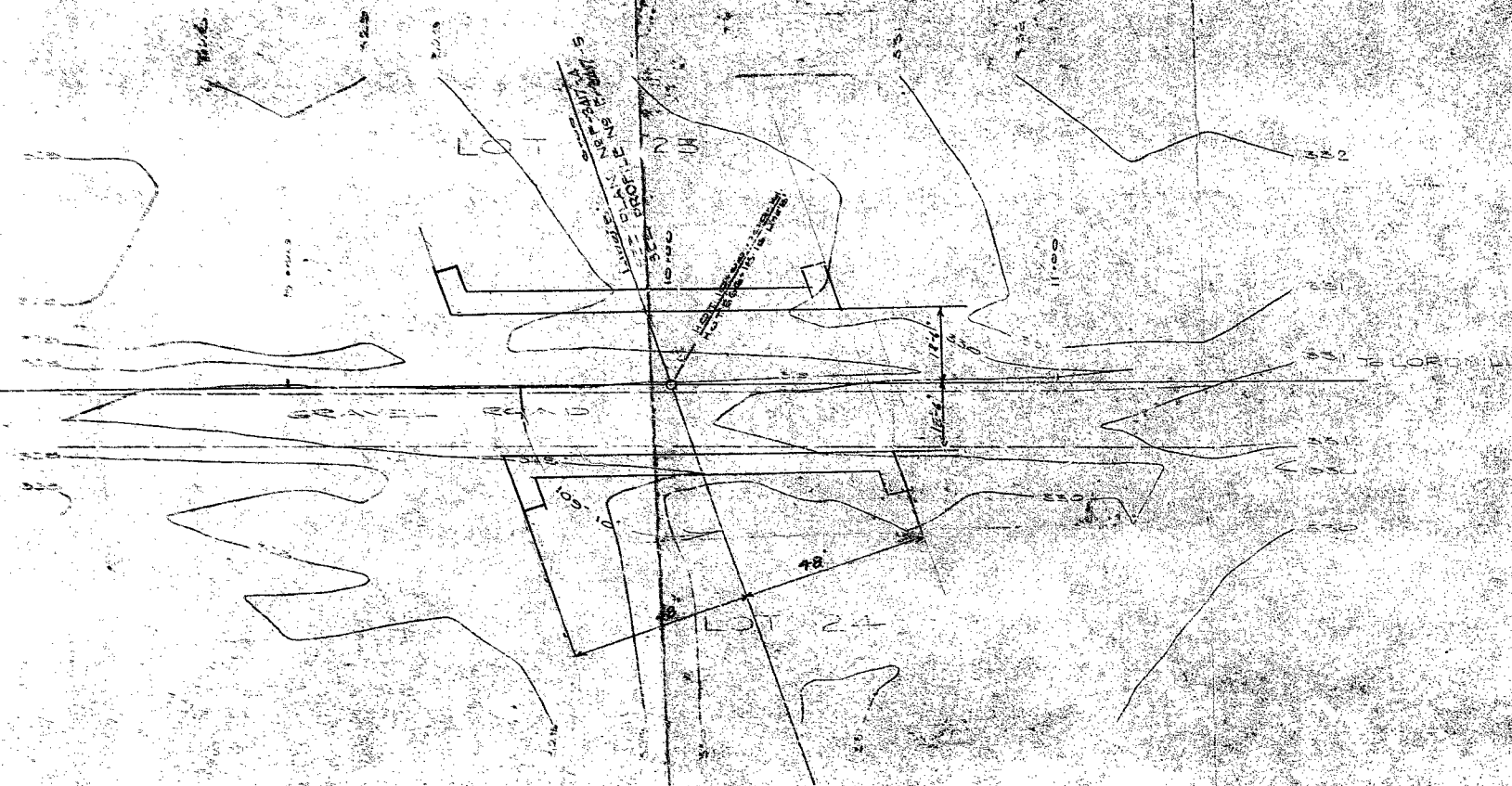
THE LORD MILL TO

LEMON POINT

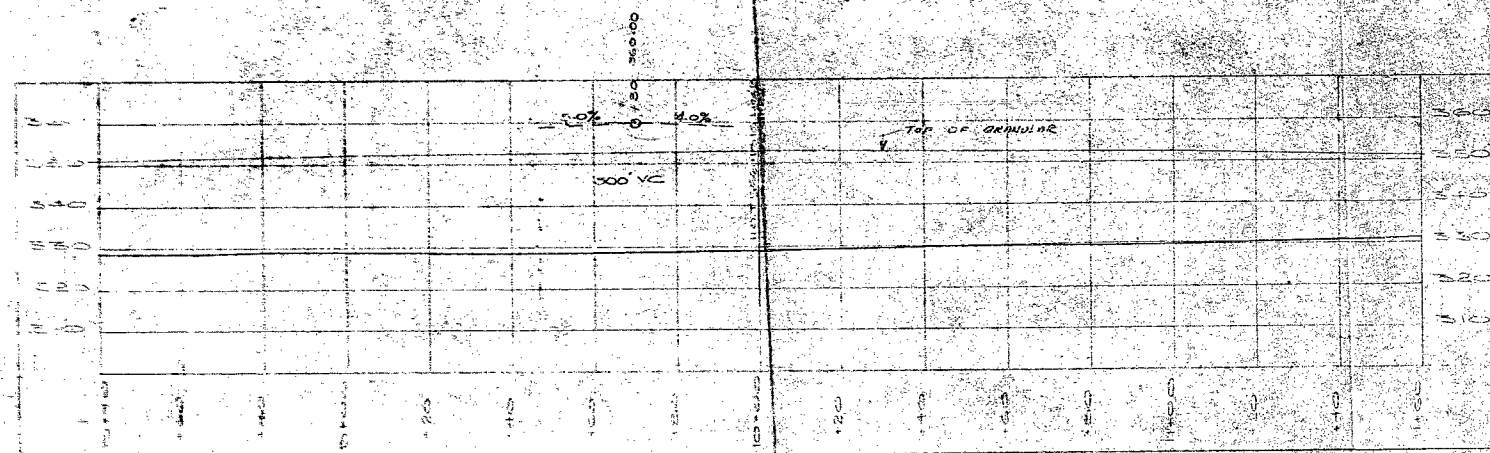
ROAD

EDITED
FOR MICROFILMING
BY *MLD* DATE *30/10*

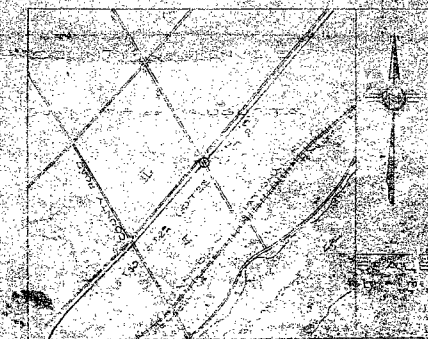
COUNTY OF GRENNVILLE
TOWNSHIP OF AUGUSTA
LOT 24 & 25 CON 1



PLAN
Scale 1/4" = 20'



PROFILE
SCALE 1/4" = 20' Hor. Vert.



SOILS PROFILE - NS 4914.22

DEPARTMENT OF HIGHWAYS - ONTARIO

DIVISION NO. 8

PROPOSED CROSSING

THE KING'S HIGHWAY NO. 401

AND

THE ROAD ALLOWANCE BETWEEN LOTS 24 & 25

LOTS 24 & 25 CON 1

COUNTY OF GRENNVILLE - TOWNSHIP OF AUGUSTA

BRIDGE SITE

PRINT RECORD	DATE	BY
1	1955	J. F. 1955
2	1955	J. F. 1955
3	1955	J. F. 1955
4	1955	J. F. 1955
5	1955	J. F. 1955
6	1955	J. F. 1955
7	1955	J. F. 1955
8	1955	J. F. 1955
9	1955	J. F. 1955
10	1955	J. F. 1955

CHECKED BY	APPROVED BY
DATE	DATE
SCALE	SCALE
PLAN	PLAN
PLAN E 260/11	

SOME DEFECTS IN NEGATIVE DUE

TO CONDITION OF ORIGINAL DOCUMENTS

65-F-61

Report
on the
Foundation Investigation
the
Junction
of
Highway 401 and the Lordbail
to Lemon Point Road.

cc: Mr. H. Lasont
Bridge Engineer (2)

Mr. J. Walter
Construction Engineer (1)

Mr. L. Walker
Division Engineer, Kingston (1)

Profile F 3417-5

Plan No. E 2801-1

Introduction

A power auger investigation was carried out recently to ascertain the soil profile below the abutments of this structure.

Previous subgrade investigations in the area indicated the presence of bedrock close to the surface.

The site of the proposed structure appears to be located over a relatively level area of bedrock.

The overburden is saturated with free water within 18" of existing ground level.

A drawing showing the soil profile at the abutments and under the approaches is attached along with a copy of the boring log.

Soil Profile

The average level of the existing ground on the proposed site is 330.0 c.d. with the general level of the rock at an elevation of 321.0 c.d.

Unfortunately the boring unit did not allow the investigation of rock quality, but it is believed to be ^{Sound} sand limestone.

There is an average of 7'0" of saturated brown coarse sand and very fine gravel over laying the bedrock. The surface soil is sandy loam up to 24" deep.

Recommendations

The foundations should be brought to bedrock which is an average of 9'0" below the level of the existing ground and 11'0" below the elevation of the G.B.C. grade.

The contractor should be notified that the ~~saturated~~ and overburden is saturated and will require a minimum of Timber sheeting to retain the soil during excavation.

A. Thorley

28/4/55.

AT:OD

Augusta

April 24/55

Hole #1 175' North E 401 30' West E Gravel Road 329.0

0-3" Black Sandy Loam Topsoil (wet).
 3"-20" Dark Brown Sandy Loam - "B" Horiz (wet)
 20"-8 1/2' Brown Coarse Sand (Sat)
 8 1/2' Bedrock.

Hole Flooded & Caved in

Hole #2 16' E Front Face N.W. Corner 331.0

0-2' Dirty Gravel, Topsoil, Sandy Loam Mix (wet-Roots).
 2'-9 1/2' Brown Coarse Sand - Very Fine Gravel (Sat)
 9 1/2' Bedrock

Hole Flooded & Caved in.

Hole #3 15' E 6' S Front Face S.W. Corner 330.0

0-18" Black Sandy Loam Topsoil, Dirty Gravel & Sandy Loam Mix (wet)
 18"-10' Brown Coarse Sand (Sat) Balls of Very Fine Sand & Silt.
 10'-11' Blue Grey Very Fine Sand & Silt (Moist - Slightly indurated)
 11' Bedrock

Hole #4 200' S E 401 - 10' W E Gravel Road. 328.5

0-25" Black Sandy Loam Topsoil, Dirty Gravel & Sandy Loam Mix (wet)
 25"-40" Reddish Brown Fine-Medium Sand (Sat)
 40"-9' Brown Coarse Sand (Sat)
 9'-12' Gravely Very Fine Sand & Silt (Sat)
 12' Bedrock

Hole Flooded & Caved in

Hole #5 5' W. Front Face S.E. Corner 330.0

0-16" Black Sandy Loam Topsoil (wet)
 16"-22" Dark Brown Sandy Loam "B" (wet)
 22"-10' Brown Coarse Sand (Sat)
 10' Bedrock

Hole Flooded & Caved in

Hole #6 2' W. Front Face N.E. Corner 329.0

0-18" Black Sandy Loam Topsoil (wet)
 18"-24" Dark Brown Sandy Loam "B" (wet)
 24"-8' Brown Coarse Sand (Sat)
 8' Bedrock.

401 UNDERPASS

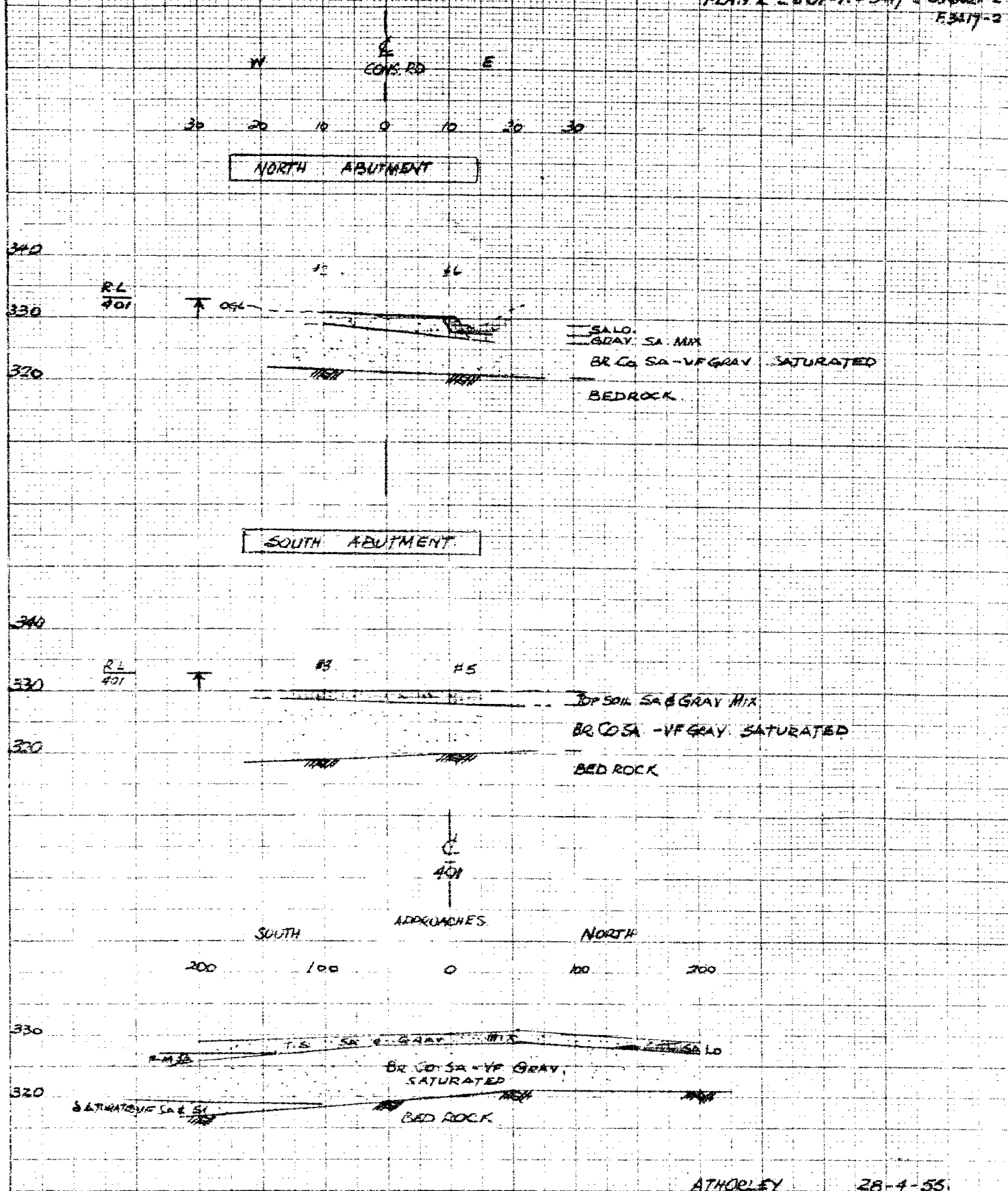
AUGUSTA TWP

LOT 24-25 CONT.

SIN 566125 401-H-21 PROF

PLAN E 2801-1. F 3417-2. 5. 13021-2

F 3417-2



ATHORLEY

28-4-55

DATE APRIL 24/65

HOLE #1 125' N & 401 30' W & GRAV RD

(329.0)

0 - 3' BL SALO TPEL (WET)
3 - 20' DK BR SALO "B" HORIZ (WET)
20' - 8 1/2' BR Co SA (SAT)
8 1/2' + BEDROCK

HOLE FLOODED & CAVED IN LG

HOLE #2 16' E FRONT FACE N.W. CORNER

(331.0)

0 - 2' DIRTY GRAV, TPEL, SALO MIX (WET - ROOTS)
2' - 9 1/2' BR Co SA - VF GRAV (SAT)
9 1/2' + BEDROCK

HOLE FLOODED & CAVED IN

HOLE #3 15' E 6' S FRONT FACE S.W. CORNER

(330.0)

0 - 18' BL SALO TPEL, DIRTY GRAV & SALO MIX (WET)
18' - 10' BR Co SA (SAT) BALLS OF VF SA & Si
10' - 11' BL GR VF SA & Si (MOIST - SL INDURATED)
11' + BEDROCK

HOLE #4 200' S & 401 - 10' W & GRAV RD

(328.5)

0 - 25' BL SALO TPEL, DIRTY GRAV & SALO MIX (WET)
25' - 40' RDBRF-M SA (SAT)
40' - 9' BR Co SA (SAT)
9' - 12' GR VF SA & Si (SAT)
12' + BEDROCK

HOLE FLOODED & CAVED IN

HOLE #5 5' W FRONT FACE S.E. CORNER

(330.0)

0 - 16' BL SALO TPEL (WET)
16' - 22' DK BR SALO "B" (WET)
22' - 10' BR Co SA (SAT)
10' + BEDROCK

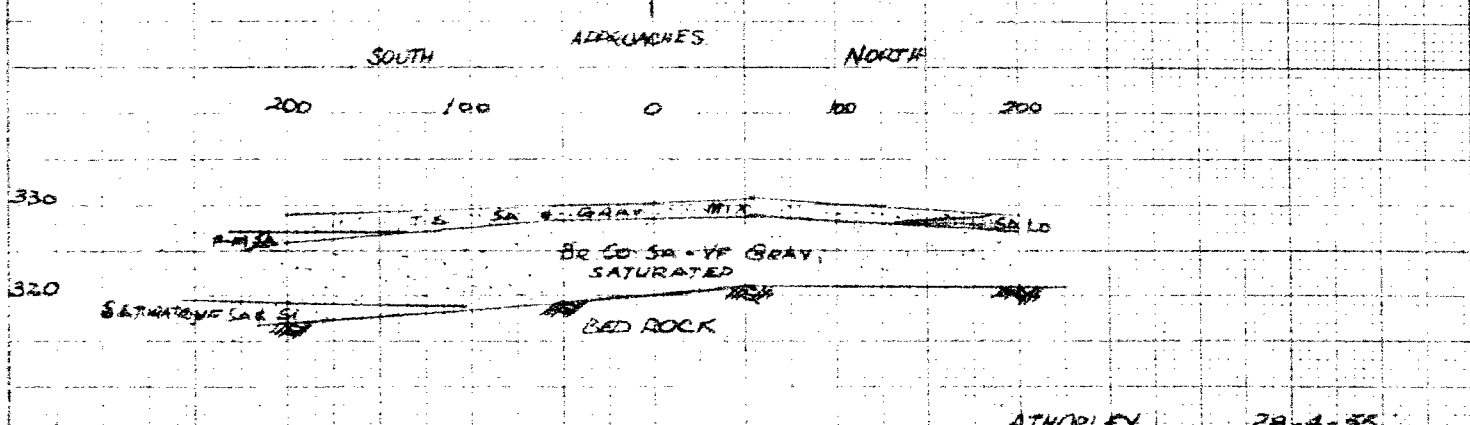
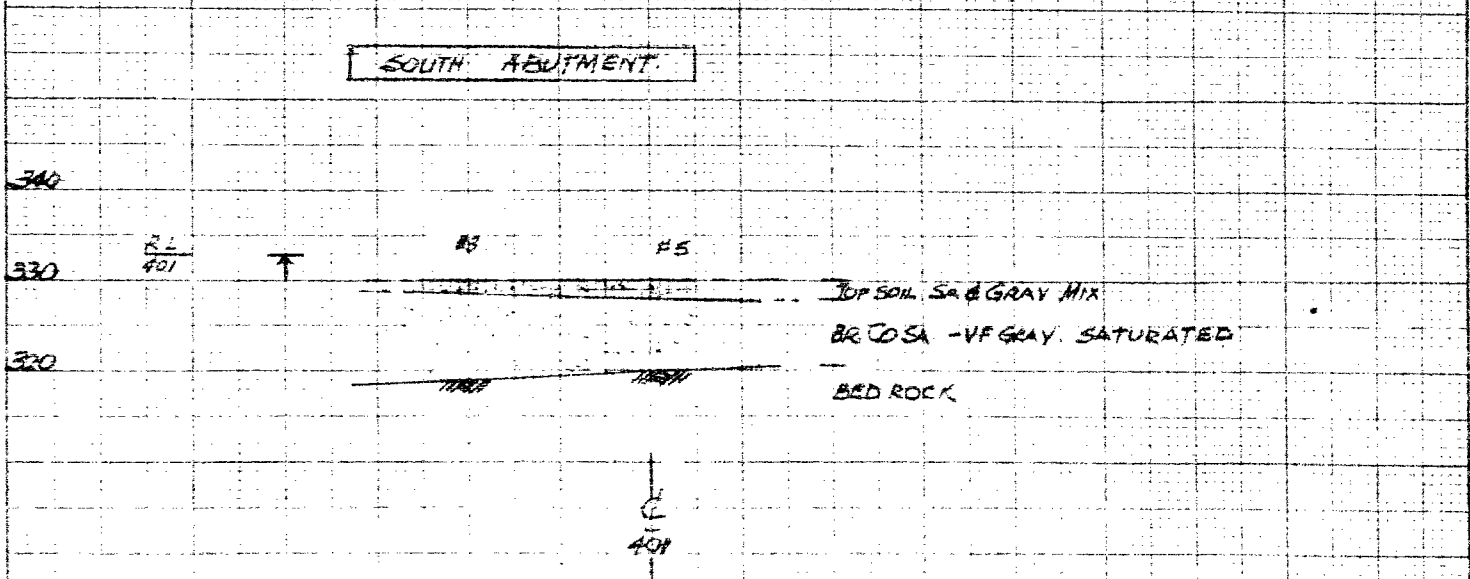
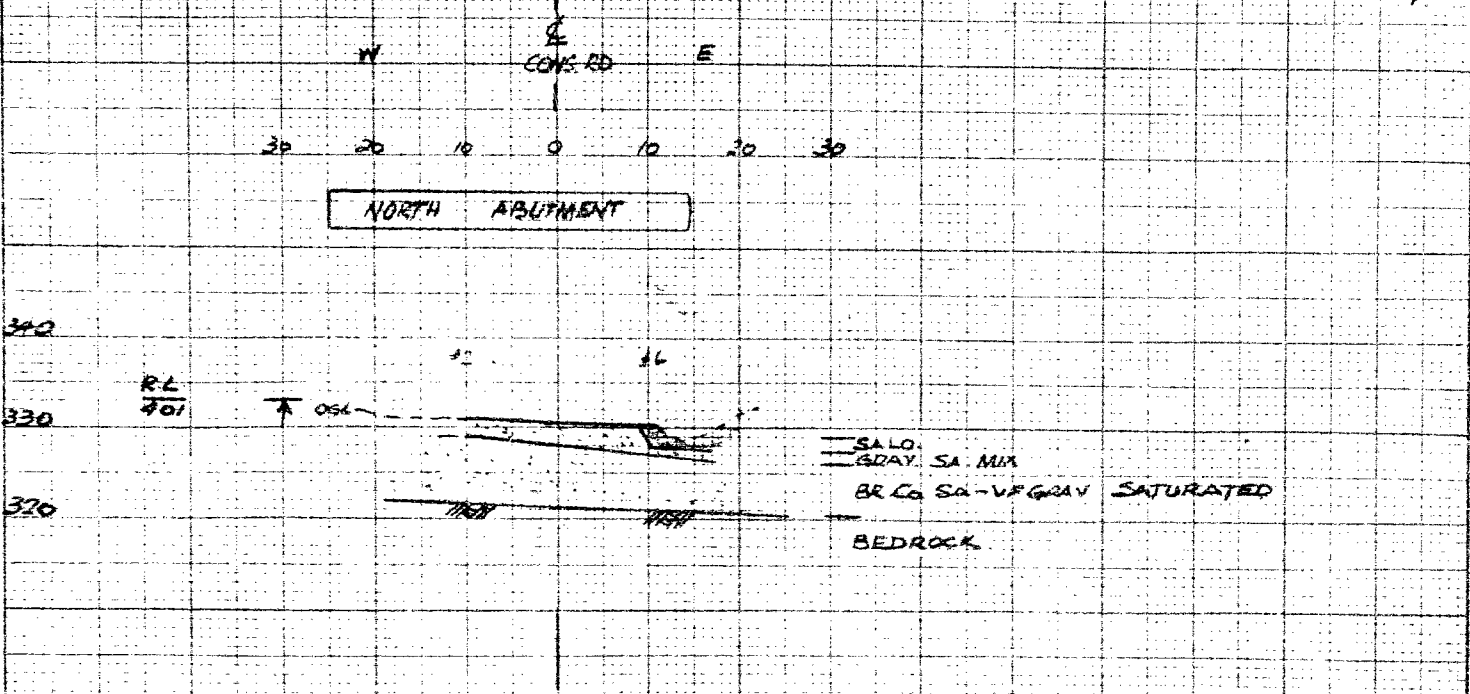
HOLE FLOODED & CAVED IN

HOLE #6 2' W FRONT FACE N.E. CORNER

(329.0)

0 - 15' BL SALO TPEL (WET)
15' - 24' DK BR SALO "B" (WET)
24' - 8' BR Co SA (SAT)
8' + BEDROCK

401 UNDERPASS AUGUSTA TWP LOT 2425 CON I STN 566+25 401-H-21 PROF
 PLAN E 2801-1.1 3417-2.5 3021-2
 F.3417-2



ATHORLEY 28-4-55