NO. AND DATE OF VOUCHER	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TRACED — CHECKED — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TRACED — CHECKED — AREAS CHECKED — BY — DATE

Very Wet clay at subgrade. Cut Min. 12" and replace with select material. Possible seepage
Liquid Limit = 65-80
Plasticity Index = 28-34

Surface layer of dark, organic soil over brown clay loam. Remove dark surface layer if above a plane 4'-0" below finished grade. Moisture content of brown clay loam is 50 - 60%
Liquid Limit = 65
Plasticity Index = 15

U 33(1)

14 + 54.57

S 21.2(1)

Rocky Soil
Moisture Content approx. 50%
To be used as select material
Liquid Limit = 60-64
Plasticity Index = 8-10

Moist brown clay loam. Moisture content 55 - 65%
Remove surface layer of dark organic soil if above a plane 4'-0" below finished grade
Liquid Limit = 74
Plasticity Index = 29

Possible Seepage Area

Swamp muck over gravel. Remove muck and replace with select material.

Rocky material. To be used as select material.

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SEP 20 1951

Brown clay loam. Moisture content 50%
Liquid Limit = 59
Plasticity Index = 20

Brown clay loam
Moisture content 50%

Brown clay loam. Moisture content 40 - 50%
Liquid Limit = 31
Plasticity Index = 5

Note:
The Select Material for subgrade shall be obtained from the roadway excavation of rocky soil & rocky material between stations —
Sta. 41+00 - Sta. 51+50 approx. 77,300 c.y.
Sta. 79+20 - Sta. 84+70 approx. 11,500 c.y.

SOIL PROFILE FOR PROJ. NO. U 33(1) and PROJ. S 21.5(1)
SCALE: HOR. - 1" = 200'
VERT. - 1" = 20'

STATE HIGHWAY DEPARTMENT OF NEW HAMPSHIRE
ALBERT E. WALTON, DIVISION

K. & E. CO. No. 345-3 MADE IN U.S.A.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Vermont	Vt.	1331(1)			10

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FINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
NOTE BOOK
AREAS CHECKED
NO.
DATE

ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
NOTE BOOK
AREAS CHECKED
NO.
DATE

NOTE:

The 6" Layer Select Material Sub-Base Shall be Constructed Immediately Prior to Placing Another Layer of 24" Select Material Sub-Base Shall be Deposited Only in the Ems Between Sta. 41+00 and Sta. 50+00 and from Sta. 51+50 to Sta. 70+00

The Select Material for the Above Sub-Bases Shall be Obtained from the Roadway Excavation or Rock Cut Between Points Given:

Sta. 41+00 - Sta. 51+50
Sta. 70+00 - Sta. 84+50

2+00

Exc = 0
Emb = 6320.4
SM Exc = 1072.2

N.L. 2+00 | S.L. 2+00 | 470.7 | 457.3

C = 0
E = 162.1
SM = 1.72

1+00

Exc = 25.6
Emb = 5055.7
SM Exc = 864.8

N.L. 1+00 | S.L. 1+00 | 464.6 | 463.2 | 465.7

24" Layer S.M. in Emb. Only | 12" Layer S.M.

C = 14
E = 1108
SM = 188

0+00

Exc = 1050
Emb = 21880
SM Exc = 5960

N.L. 0+00 | S.L. 0+00 | 455.9 | 457.1

24" Layer Select Material In Emb. Only | 12" Layer Select Material

C = 60
E = 47
SM = 1.07

-1+00

Exc = 3750
Emb = 870
SM Exc = 824.1

455.6

C = 113
E = 0
SM = 0.8

-2+00

Exc = 2140
Emb = 0
SM Exc = 1370

455.9

C = 0
E = 0
SM = 0

PLATE C. CROSS SECTION OF ROAD & STRUCTURE
KEUFFEL & ESSER CO., NEW YORK

K & E CO. No. 345-3 MADE IN U.S.A.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	Hawaii	Hwy U33-1		12	13

SEP 20 1951

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FINAL SURVEY
SURVEYED BY
PLOTTED
TEMPLATE
AREAS CHECKED
NOTE BOOK
NO.
DATE

ORIGINAL SURVEY
SURVEYED BY M. T. & Staff
PLOTTED
TEMPLATE
AREAS CHECKED
NOTE BOOK
NO.
DATE 8-5-49

10+00
Exc = 1576.0
Emb = 0.3
S.Y. Exc. = 300.3
→ Ala Kino Extension
N.L. 10+00
522.94
522.84
S.L. 9+00
Cr = 707
Fr = 0
S.Y. = 74

9+00
Exc = 401.0
Emb = 20.6
S.Y. Exc. = 300.7
N.L. 9+00
516.61
516.61
S.L. 8+00
Cr = 144
Fr = 5
S.Y. = 09

8+00
Exc = 501.0
Emb = 155.6
S.Y. Exc. = 508.7
N.L. 8+00
510.08
510.08
S.L. 7+00
Cr = 13
Fr = 11
S.Y. = 118

7+00
Exc = 633.3
Emb = 804.8
S.Y. Exc. = 58.3
N.L. 7+00
503.52
503.52
S.L. 6+00
Cr = 108
Fr = 73
S.Y. = 154

6+00
Exc = 2815
Emb = 13389
S.Y. Exc. = 583.3
N.L. = 6+00
1st Layer Select Material
494.96
2nd Layer S.M. in Emb. Only
S.L. 5+00
499.86
1st Layer Select Material
Cr = 144
Fr = 304
S.Y. = 76

5+00
Exc = 0
Emb = 1148
S.Y. Exc. = 1148
N.L. 5+00
499.40
499.40
S.L. 4+00
Cr = 62
Fr = 350
S.Y. = 104

4+00
Exc = 1148
Emb = 15389
S.Y. Exc. = 844.2
N.L. 4+00
489.64
489.82
S.L. 3+00
Cr = 0
Fr = 475
S.Y. = 305

3+00
Exc = 4108.1
Emb = 1148.8
S.Y. Exc. = 1148.8
N.L. 3+00
477.28
477.18
S.L. 2+00
Cr = 0
Fr = 1792
S.Y. = 499

PLATE 3-CROSS SECTION O.R.P.L.& E. STANDARD
KEUFFEL & ESSER CO. NEW YORK
K. E. & E. CO. NO. 346-3 MADE IN U.S.A.

5386 & 12