

1913  
Walls Road

4

KEENE BRIDGE  
WHITE SEWER  
COOK BRIDGE  
STABLEY BRIDGE  
ROBARDS BRIDGE  
MERCER ROAD  
WILSON ROAD  
MCCOY BRIDGE  
HIGGINS BRIDGE  
CLARK BRIDGE  
STELLA BRIDGE  
RALPH ROAD  
BRIDGE ROAD  
W. P. BELL BRIDGE  
WALLS ROAD  
MIDDLE ROAD  
LEATHER ROAD  
WEAVER BRIDGE  
BROWNIE COVERED BRIDGE  
HIS BRIDGE  
PHILLIPS ROAD



Wing splay + 30° length =  
1.1 x height above water line  
dip =  $\frac{1}{3}$  of length

Chatham bridge 18  
Cook Bridge 8

Higgins Bridge 17

Kesler Bridge 6  
J.C. Lamar Bridge 4  
Jonathan Lowe Bridge 3  
Meneer Road Bridges 12 13 14  
McCann Bridge 15



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Perry Porter Arch on Danville  
 SE<sup>4</sup> Sec 30 TP 16. N R 1 W  
 6' clear span 6' waterway  
 22' grade.

T 11.49 111.49

100.

9.70 101.79

2.61 109.88

2.37 109.12

1.78 109.71

.80 110.69

1.48 110.01

2.62 108.87

⊙  
 T 6.59 115.46

3.00 112.46

1.76 112.70

2.98 112.48

4.94 110.52

B.M.

Estimate

Grading 180 yd 36.00

Gravel 117 yd 117.

457 yd concrete 470.

iron 172

Excavation & Supt 23

660 \$700.00

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

ant North Salem Free Gravel Road  
 length governed by requirements of

Low water down stream

" up "

top present grade center arch

50' N { 110.00 } .88 fill

100' N { 110.35 } .64 "

150' N { 110.69 } .00

50' S { 110.00 } .01 "

Bridge top 110

100' S { 110.83 } 1.63 cut

150' S { 111.66 } 2.04 "

200' S { 112.48 } .00

top post N.E. bridge

Raise grade, cut hill south,  
 and gravel 13" deep 9' wide  
 Survey June 30 1913 with C. Ammerman



4

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Chas Stephenson Bridge  
19 Tp 17 N R 2 W 14' flat  
Stream flowing S 30° W

|      |        |      |              |  |  |     |  |
|------|--------|------|--------------|--|--|-----|--|
| T    | 109.54 | 9.54 | 100.00       |  |  |     |  |
|      |        | 9.05 | 100.49       |  |  |     |  |
|      |        | 1.90 | 107.74       |  |  |     |  |
|      |        | 2.96 | 106.58/06.80 |  |  | .22 |  |
|      |        | 3.43 | 106.11/06.60 |  |  | .79 |  |
| B.M. |        | -.02 | 109.56       |  |  |     |  |
|      |        | 2.43 | 107.11/06.80 |  |  | .31 |  |
|      |        | 2.64 | 106.90/06.60 |  |  | .30 |  |

\$100 for gaick sand  
\$100

64 yd cement 640  
cutting 100

\$1750

85  
120  
3700  
35  
42.00

5

2

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

on line between Secs 18 and  
top for 20' roadway skew

Bottom down stream  
" up "  
present grade over W abutment  
50' W  
100' W  
top of end post of fence on E  
side ditch N side of road  
50' E  
100' E

Emy June 30 1913 with County  
Commissioners







| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

J. C. Lamar Bridge  
8' arch - 30' long

|   |       |       |  |        |  |  |  |
|---|-------|-------|--|--------|--|--|--|
| π | 12.03 | 11203 |  | 100.00 |  |  |  |
|---|-------|-------|--|--------|--|--|--|

|  |  |  |  |      |        |  |  |
|--|--|--|--|------|--------|--|--|
|  |  |  |  | 1.74 | 110.29 |  |  |
|--|--|--|--|------|--------|--|--|

|  |  |  |  |      |        |  |  |
|--|--|--|--|------|--------|--|--|
|  |  |  |  | 1.19 | 110.84 |  |  |
|--|--|--|--|------|--------|--|--|

|  |  |  |  |       |        |  |  |
|--|--|--|--|-------|--------|--|--|
|  |  |  |  | 11.92 | 100.11 |  |  |
|--|--|--|--|-------|--------|--|--|

|  |  |  |  |      |        |  |  |
|--|--|--|--|------|--------|--|--|
|  |  |  |  | 1.72 | 110.31 |  |  |
|--|--|--|--|------|--------|--|--|

|      |       |       |      |        |  |  |  |
|------|-------|-------|------|--------|--|--|--|
| B.M. | 11.76 | 12207 | 9.64 | 112.43 |  |  |  |
|------|-------|-------|------|--------|--|--|--|

|  |  |  |  |      |        |  |  |
|--|--|--|--|------|--------|--|--|
|  |  |  |  | 9.38 | 112.69 |  |  |
|--|--|--|--|------|--------|--|--|

|  |  |  |  |      |        |  |  |
|--|--|--|--|------|--------|--|--|
|  |  |  |  | 4.42 | 117.65 |  |  |
|--|--|--|--|------|--------|--|--|

|  |  |  |  |       |        |  |  |
|--|--|--|--|-------|--------|--|--|
|  |  |  |  | 11.40 | 110.67 |  |  |
|--|--|--|--|-------|--------|--|--|

|  |  |  |  |      |        |  |  |
|--|--|--|--|------|--------|--|--|
|  |  |  |  | 8.72 | 113.35 |  |  |
|--|--|--|--|------|--------|--|--|

|  |  |  |  |      |        |  |  |
|--|--|--|--|------|--------|--|--|
|  |  |  |  | 2.72 | 114.35 |  |  |
|--|--|--|--|------|--------|--|--|

Counting for 115' top of

12.00 per yd

\$900.00

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

See 17 Tp 17 N R 2 E  
Wings straight

bottom down stream east

North abutment present grade

|       |        |      |      |
|-------|--------|------|------|
| 50' N | 115.00 | fill | 4.16 |
|-------|--------|------|------|

bottom up stream

First sawed fence post 20' NE Bridge

|        |        |      |      |
|--------|--------|------|------|
| 100' N | 116.33 | 3.64 | fill |
|--------|--------|------|------|

|        |        |     |  |
|--------|--------|-----|--|
| 150' N | 117.65 | .00 |  |
|--------|--------|-----|--|

|       |        |      |      |
|-------|--------|------|------|
| 50' S | 115.00 | 4.33 | fill |
|-------|--------|------|------|

|        |        |      |   |
|--------|--------|------|---|
| 100' S | 117.00 | 3.65 | " |
|--------|--------|------|---|

|        |        |     |     |
|--------|--------|-----|-----|
| 150' S | 119.00 | .35 | cut |
|--------|--------|-----|-----|

Survey from 30 1913 with  
Co Commissioner.

new bridge



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Bridge at Pin Hook Ford  
Iron bridge 80' span

|      |        |      |        |               |  |  |  |
|------|--------|------|--------|---------------|--|--|--|
| π    | 109.37 | 9.37 | 100.00 |               |  |  |  |
|      |        |      | 6.80   | 102.57        |  |  |  |
|      |        |      | 2.68   | 106.69 + 6.00 |  |  |  |
| B.M. |        |      | .54    | 108.83        |  |  |  |
|      |        |      | 4.80   | 104.57        |  |  |  |
|      |        |      | 9.12   | 100.25        |  |  |  |
|      |        |      | 9.26   | 100.11        |  |  |  |
|      |        |      | 4.15   | 105.22        |  |  |  |
|      |        |      | 1.34   | 108.02        |  |  |  |
|      |        |      | -.04   | 109.11        |  |  |  |

7.50 yd

B / 2.00 abutments

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

S.W. Plainfield  
16' wide

Low water center of Road  
S. face of abutment  
top of abutment  
top of cottonwood stump N of  
Cottonwood 12" diam N W Cor bridge  
S. abutment  
bottom down stream  
" up. "  
50' h  
100' h  
150' h

Road from S abutment rising  
slightly.

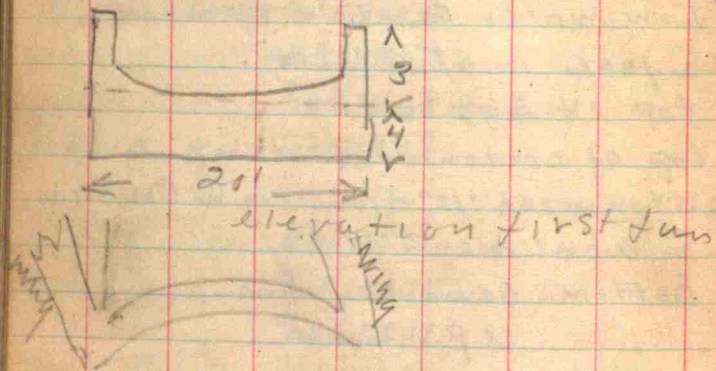
wings splayed back 45°

Survey with Commissioners  
June 30 1913.

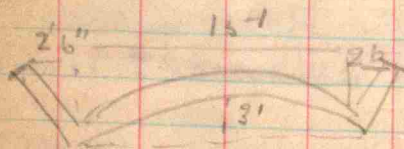


| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Kessler Bridge on  
Repair  
3 dams on downstream side



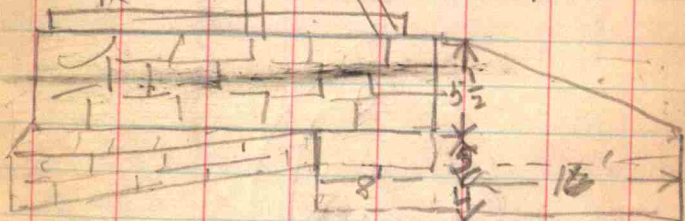
Plan first dam at end of wing



Plan for dam at pt 15' and  
for dam at pt 30 ft below  
me at end of wings  
each 1' lower than present  
ing. Old stone to be used  
as rip rap between dams

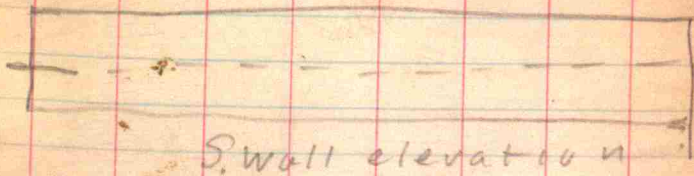
| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Danville and Lebanon Road  
425<sup>00</sup>



N wall elevation

N wall plan



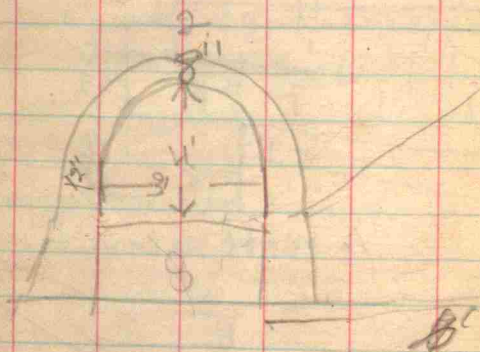
S wall elevation

S wall plan

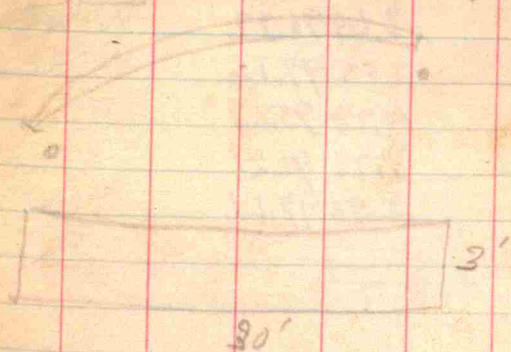
Survey with Cox and Dornand  
July 1 1918  
120 ft 3 ft  
alt



| STA.             | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------------------|------|------|------|-------|-------|-----|------|
| John Whyte Sewer |      |      |      |       |       |     |      |
| 21' 6"           |      |      |      |       |       |     |      |

125<sup>00</sup>

| STA.                         | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------------------------------|------|------|------|-------|-------|-----|------|
| Extend barrel of sewer       |      |      |      |       |       |     |      |
| E 12'. Build header 9' high  |      |      |      |       |       |     |      |
| 15' long.                    |      |      |      |       |       |     |      |
| Build dam 80' long extending |      |      |      |       |       |     |      |
| S 30° E ending above a       |      |      |      |       |       |     |      |
| small locust sprout 2" diam  |      |      |      |       |       |     |      |
| 6" below bottom of sewer     |      |      |      |       |       |     |      |



Surveyed with Downard and  
Gax July 1 1913

122



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Cook Bridge flat top  
20' roadway

11 .01 100.01 10000

7.87 92.14

7.18 92.83

6.78 93.28

4.33 95.68

3.69 96.32

2.85 97.16

4.78 95.23

3.72 96.29

2.90 97.11

10<sup>00</sup>

# 1050

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

20' clear span 6' clear waterway

B.M. Short fence post E end of  
water gate S side road  
bottom down stream S.  
" up " " "  
present grate at W abutment.

50' W

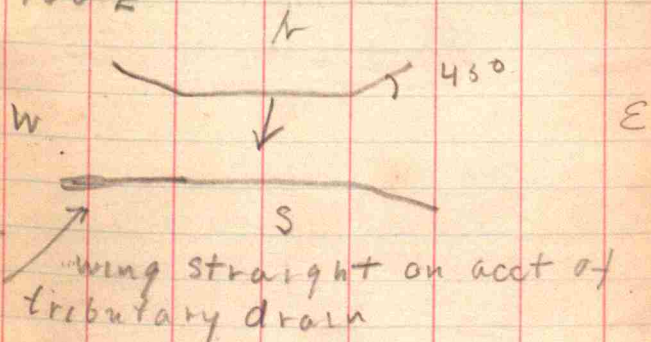
100' W

150' W

50' E

100' E

150' E



Survey July 1 1913 with  
Downard & Cox



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Stanley Bridge flat top  
Clear span 20' roadway

↑ 2.68 102.68 100.00

8.68 94.00

7.67 95.01

4.68 98.00

4.42 98.26

5.44 97.24

4.80 97.88

3.16 99.52

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

4 1/2' clear waterway 14'

B.M. Old ent post S.E. bridge

near elm saplings

bottom down stream

" " abutment

50' N

100' N

50' S

100' S

150' S

Wings splay at 30°

Survey July 1, 1913 with  
Downard and Cox

1000

8 5-5-0



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Robards Bridge on part of which is petitioned for by bridge underneath with logs be removed to afford proper drainage to land above. 22' long 14' clear span

|   |      |        |  |      |       |  |  |
|---|------|--------|--|------|-------|--|--|
| π | 2.00 | 102.00 |  | 100  |       |  |  |
|   |      |        |  | 9.44 | 92.56 |  |  |
|   |      |        |  | 9.12 | 92.88 |  |  |
|   |      |        |  | 5.12 | 96.88 |  |  |
|   |      |        |  | 5.84 | 96.16 |  |  |
|   |      |        |  | 5.23 | 96.17 |  |  |
|   |      |        |  | 5.30 | 96.70 |  |  |
|   |      |        |  | 5.06 | 96.94 |  |  |
|   |      |        |  | 5.06 | 96.94 |  |  |
|   |      |        |  | 4.92 | 97.08 |  |  |

10<sup>00</sup> to 7d / 600<sup>00</sup>

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

of National Road the improvement low walls, et al. Present in quicksand which should be removed to afford proper drainage to land above. no skew wings splayed 30°

B.M. End post S.E. bridge bottom downstream

" " " " up " "

Width but ment to be raised 1'

50' E

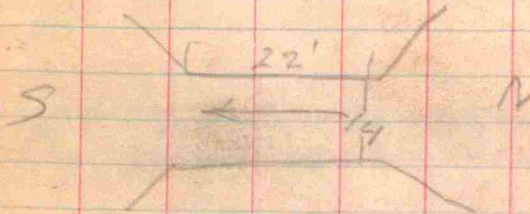
100' E

150 E

50 W

100 W

150 W



Surveyed with transit and  
Box July 1 1913.



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Bridge on National Road  
property of Tabitha York  
30' long wings parallel to  
Flat top

|      |       |  |  |        |  |  |  |
|------|-------|--|--|--------|--|--|--|
| 1.65 | 10.65 |  |  | 100.00 |  |  |  |
|------|-------|--|--|--------|--|--|--|

|  |  |  |      |       |  |  |  |
|--|--|--|------|-------|--|--|--|
|  |  |  | 7.13 | 94.52 |  |  |  |
|--|--|--|------|-------|--|--|--|

|  |  |  |      |       |  |  |  |
|--|--|--|------|-------|--|--|--|
|  |  |  | 6.98 | 94.67 |  |  |  |
|--|--|--|------|-------|--|--|--|

|  |  |  |      |       |  |  |  |
|--|--|--|------|-------|--|--|--|
|  |  |  | 3.50 | 98.15 |  |  |  |
|--|--|--|------|-------|--|--|--|

|  |  |  |      |       |  |  |  |
|--|--|--|------|-------|--|--|--|
|  |  |  | 3.22 | 98.43 |  |  |  |
|--|--|--|------|-------|--|--|--|

|  |  |  |      |       |  |  |  |
|--|--|--|------|-------|--|--|--|
|  |  |  | 2.92 | 98.73 |  |  |  |
|--|--|--|------|-------|--|--|--|

|  |  |  |      |       |  |  |  |
|--|--|--|------|-------|--|--|--|
|  |  |  | 3.14 | 98.51 |  |  |  |
|--|--|--|------|-------|--|--|--|

|  |  |  |      |       |  |  |  |
|--|--|--|------|-------|--|--|--|
|  |  |  | 2.50 | 99.15 |  |  |  |
|--|--|--|------|-------|--|--|--|

# 10 as y d

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

in E edge of Stilesville near  
6' clear span 4' clear waterway  
road on W side, splayed 45° E

B.M. End post S.W. bridge corner  
York's garden.

bottom down stream

" up " "

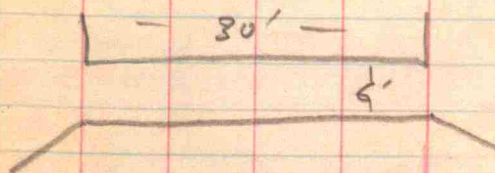
present grade over W abutment

50' E

100 E

50 W

100 W



Survey with downward and  
Cox July 1 1913.

475<sup>00</sup>



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Andrew Robards Bridge  
16' roadway 15.56' waterway  
Steel bridge

|   |       |        |     |        |       |  |  |
|---|-------|--------|-----|--------|-------|--|--|
| π | 11.72 | 111.72 |     | 100    |       |  |  |
|   |       |        | .15 | 111.57 | + .30 |  |  |
| ⊙ |       |        | .64 | 111.08 |       |  |  |
|   | 3.48  | 114.56 |     |        |       |  |  |

B 2400 <sup>00</sup> abutment

12"  $\frac{1}{2}$  ft

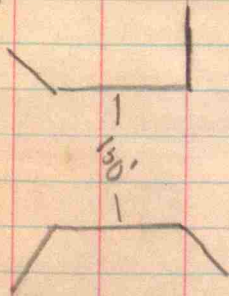
100 yd

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

over Mill Creek NW Stokesville  
abutments 25' deep 150' span

Bottom stream center of road  
high water mark Easter Flood

level struck midway of slanting  
top of old gate post NW bridge  
lacket about 1' of reaching top  
of fill north of bridge



Surveyed with Downard and Cox  
July 1 1913. Survey incomplete  
in acct of rain and water

J. H. Adams



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| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Bridge 118+60 Geo. Mercer  
 Arch: 9' rise 24' span  
 30° with roadway except

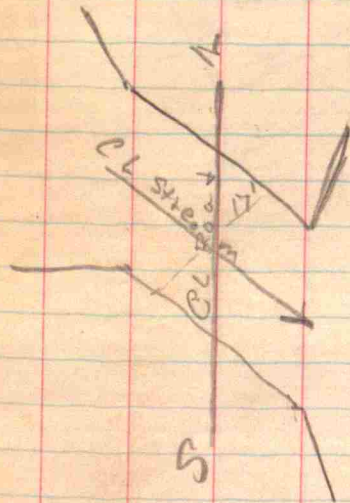
\$ 50 for skew

\$ 12.00

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| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Road  
 400 skew wings splayed  
 SW wing which is splayed 90°



Survey taken from profile of  
 Geo Mercer Road.



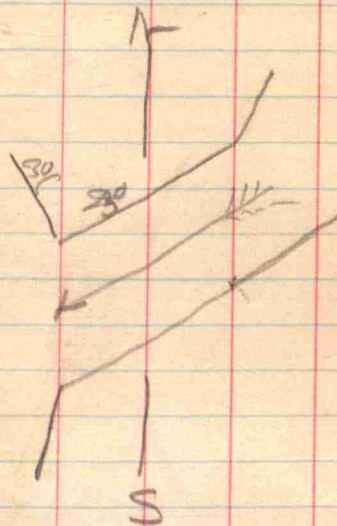
| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Bridge 141+70 Geo Mercer  
 Flat top 20' clear span  
 Wings splayed 30° except  
 S.E. for which is continuous  
 with abutment and rests  
 against stone wall

#1100.

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Road  
 6' clear waterway 25° skew



Survey taken from profile



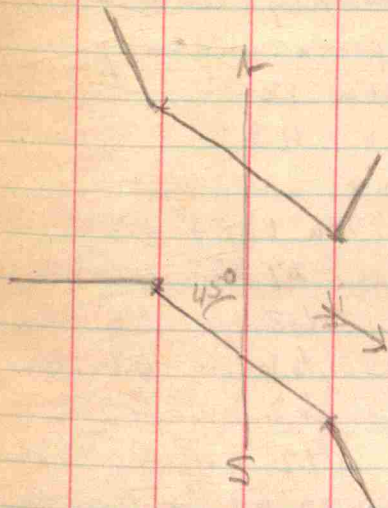
| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Bridge 146+30 Geo Mercer  
30' arch 9' rise 45° skew

# 1500

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Road



Survey taken from profile



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Estimate of cost of Wilson

Expense location and engineer

" Attorney + advertising

" Superintendency

Bridge sta 13

" " 43

Culverts

Grating sta 1 to 27

27 " 48

48 " 56

56 " 62

62 " 92

92 " 120 + 82

Gravel 4.027 yd + handling

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Road

1.09 200.00

300.00

150.00

600.00

1500.00

885.00

1444 yd 25¢ 432.00

4129 yd .333 1376.00

2194 " 731.00

1330 " 443.00

3062 25¢ 765.00

2565 25¢ 641.00

@ 1.25 5034.00

\$ 13058.00



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

McCann Bridge on Cen line  
on Higgins Road. Credit Cunningham  
of grade and macadam and  
Flat top 8' Clear span 18'

|   |      |        |      |        |  |  |  |
|---|------|--------|------|--------|--|--|--|
| T | 8.74 | 108.74 |      | 100    |  |  |  |
|   |      |        | 5.43 | 103.31 |  |  |  |
|   |      |        |      | 105.81 |  |  |  |
|   |      |        | 4.96 | 103.78 |  |  |  |
|   |      |        | 3.12 | 105.62 |  |  |  |
|   |      |        | 5.33 | 103.41 |  |  |  |
|   |      |        | 3.88 | 104.86 |  |  |  |

#400

C. Cunningham

#2500

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

A+S of Sec 8 T1P 15 R 2 W  
ingham with construction of 30'  
include cost in this estimate.  
Clear roadway

bottom down stream.  
top to abutment present grade  
" " " " new " "  
50' S  
100 S  
50 W  
100 W

Wings splayed 30° symmetrically

Survey July 8 1913 with Downard  
and Cox.



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

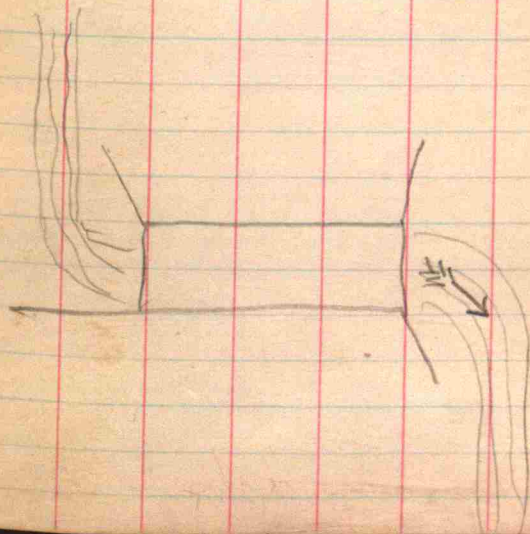
Higgins Bridge on N line  
Higgins Road. Credit Cunningham  
grade and macadam and incla  
6' clear span 18' clear post

|   |      |        |      |       |  |  |  |
|---|------|--------|------|-------|--|--|--|
| T | 1.40 | 101.40 |      | 100.  |  |  |  |
|   |      |        | 7.70 | 93.70 |  |  |  |
|   |      |        | 3.65 | 97.75 |  |  |  |
|   |      |        | 7.79 | 93.61 |  |  |  |
|   |      |        | 4.08 | 97.32 |  |  |  |
|   |      |        | 5.41 | 95.99 |  |  |  |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

of sec 3 T<sub>15</sub>R<sub>10</sub>W on  
am with construction of 30'  
to in estimate. Flat top  
way

BM top wire of fence N of bridge  
bottom down stream  
W at utment present grade.  
bottom up stream  
50' W  
50' E



325.00 C. Cunningham 25.00



| STA.                   | B.S.   | H.I.   | F.S. | ELEV. | GRADE | CUT | FILL |
|------------------------|--------|--------|------|-------|-------|-----|------|
| Chatham Bridge on line |        |        |      |       |       |     |      |
| R2w Repair by extent   |        |        |      |       |       |     |      |
| π                      | 112.24 | 122.4  | 100  |       |       |     |      |
|                        |        |        | 96   |       |       |     |      |
|                        | -20    | 112.49 |      |       |       |     |      |
|                        | 1.82   | 110.42 |      |       |       |     |      |
|                        | 9.30   | 102.94 |      |       |       |     |      |
|                        |        | 108.94 |      |       |       |     |      |

\$ 200 40

| STA.                            | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|---------------------------------|------|------|------|-------|-------|-----|------|
| between Sec 24 and 35 Tp 16 R   |      |      |      |       |       |     |      |
| ing wing S 24'                  |      |      |      |       |       |     |      |
| bed of washout at SW cor bridge |      |      |      |       |       |     |      |
| bottom of wing                  |      |      |      |       |       |     |      |
| B.M. top of parapet             |      |      |      |       |       |     |      |
| top of bridge floor             |      |      |      |       |       |     |      |
| bed of washout 24' S            |      |      |      |       |       |     |      |
| top of wing 24' S               |      |      |      |       |       |     |      |



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Settlers Bridge on Rock  
 Tp 15. m or 2 W Flat top  
 roadway skew 45° stream  
 include bridge grating and

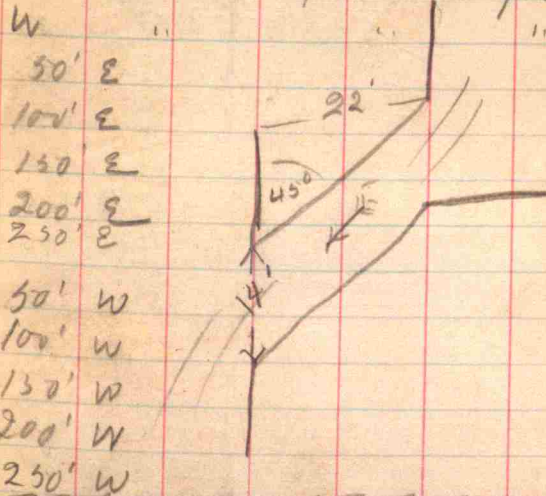
|   |        |        |        |        |        |        |  |
|---|--------|--------|--------|--------|--------|--------|--|
| π | 105.94 | 75     | 298.42 |        |        |        |  |
|   | 5.94   |        | 100    |        |        |        |  |
|   |        | 5.94   | 100.   | cut    | Grade  | fill   |  |
|   |        | 6.10   | 99.84  | 104    | 4.08   |        |  |
|   |        | 5.92   | 100.02 | 104.   | 3.95   |        |  |
|   |        | 5.88   | 100.06 | 103    | 2.94   |        |  |
|   |        | 5.82   | 100.12 | 102    | 1.88   |        |  |
|   |        | 5.62   | 100.37 | 101    | .68    |        |  |
| ⊙ |        | 6.00   | 99.94  | 100.52 | 00     |        |  |
|   | 11.90  | 111.84 | 101.8  | 101.66 | 104    | 2.34   |  |
|   |        |        | 7.88   | 103.96 | 105.44 | 1.48   |  |
|   |        |        | 5.64   | 106.20 | 106.88 | .68    |  |
| ⊙ |        |        | 2.42   | 109.42 | 110    | 108.32 |  |
|   | 1067   | 120.09 | 8.26   | 111.83 | 207    | 109.76 |  |
|   |        |        | 6.96   | 113.13 | 1.93   | 111.20 |  |
|   |        |        | 5.54   | 114.55 | 1.90   | 112.65 |  |
|   |        |        | 3.91   | 116.18 | 2.08   | 114.10 |  |
|   |        |        | 2.52   | 117.57 | 2.02   | 115.55 |  |
|   |        |        | 1.27   | 118.82 | 1.82   | 117.   |  |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

the Road between Sec 3 and 10  
 140' span 11 to road 20' clear  
 m flows S.E. Estimate to  
 macadamizing

bottom down stream

B.M. Rock anchor to fence running S.  
 E abutment present grade.



|        |      |      |        |        |        |
|--------|------|------|--------|--------|--------|
| 300' W | 3.01 | .08  | 120.01 | 550' W | 117.   |
| 350' W | 1.89 | 2.20 | 117.89 | 600' W | 117.   |
| 400' W | .57  | 4.58 | 115.51 | 650' W | 115.50 |
| 450' W | .00  | 6.10 | 113.99 | 700' W | 114.   |
| 500' W |      |      |        |        |        |

Survey July 8 1913 Downard and Cox



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

|                          |  |  |  |  |  |            |  |
|--------------------------|--|--|--|--|--|------------|--|
| Sallans bridge continued |  |  |  |  |  |            |  |
| Grading 900 yd           |  |  |  |  |  |            |  |
| maendun                  |  |  |  |  |  |            |  |
| Bridges                  |  |  |  |  |  |            |  |
|                          |  |  |  |  |  | \$ 300     |  |
|                          |  |  |  |  |  | \$ 400     |  |
|                          |  |  |  |  |  | <u>500</u> |  |
|                          |  |  |  |  |  | \$ 1200    |  |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

|                        |  |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|--|
| Estimate of Cost of    |  |  |  |  |  |  |  |
| Location + engineering |  |  |  |  |  |  |  |
| Attorney + Advertising |  |  |  |  |  |  |  |
| Superintendency        |  |  |  |  |  |  |  |
| Bridge Sta 50+90       |  |  |  |  |  |  |  |
| Culverts and Sewers    |  |  |  |  |  |  |  |
| Grading 2914 yd        |  |  |  |  |  |  |  |
| Drugging and rolling   |  |  |  |  |  |  |  |
| Stone 4650 yd          |  |  |  |  |  |  |  |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

|                           |  |  |  |  |  |  |  |
|---------------------------|--|--|--|--|--|--|--|
| J. F. Randolph et al Road |  |  |  |  |  |  |  |
|---------------------------|--|--|--|--|--|--|--|

|        |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|
| 200 00 |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|

|        |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|
| 300 00 |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|

|        |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|
| 150 00 |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|

|        |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|
| 400 00 |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|

|      |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|
| 1000 |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|

|        |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|
| 700 00 |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|

|        |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|
| 300 00 |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|

|          |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|
| 9 800 00 |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|

|                  |  |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|--|
| <u>\$ 12 850</u> |  |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|--|



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

George Mercer et al. Road

Stone 5362 cu. yd. @ 125

Hauling + Spreading @ 66

Rolling + dragging

Culverts and pipe in place

Superintending

Expense of locating, engineer, etc.

A. Horney + advertising

Grading

Ditch at Stat. 119

" " " 194 @ .35/wl.

Digging tile ditch at Stat. 1

Tile 9"

American Ingot Iron barrels

Concrete Sewer barrels

Headers cu. yds 67.8 @ \$6.00

## Mercer Road

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

\$ 6691 00

3538 92

300 00

See below

150 00

150 00

300 00

2302 00

96 50

287 00

73 20

61 60

500 00

279 00

406 80

15136 00







W. T. Bell

| STA.  | B.S. | H.I.  | F.S. | ELEV. | GRADE | CUT  | FILL<br><small>top width</small> |
|-------|------|-------|------|-------|-------|------|----------------------------------|
| 63    | 8.57 | 18.57 | 4.74 | 13.83 | 10    | 3.83 | 3.06                             |
| 63+66 |      |       | 4.45 | 14.12 | 9.6   | 4.52 | 10.04                            |
| 63+94 |      |       | 4.73 | 13.84 | 9.47  | 4.87 | 9.74                             |
| 64+30 |      |       | 4.67 | 13.90 | 9.39  | 4.51 | 10.02                            |
| 64+55 |      |       | 4.22 | 14.35 | 9.34  | 5.01 | 11.02                            |
| 65+45 | 4.54 |       | 5.45 | 13.12 | 9.16  | 3.96 | 8.92                             |
| 66+12 |      |       | 4.65 | 13.92 | 9.07  | 4.90 | 10.80                            |
| 69+12 |      | 15.90 | 4.48 | 11.42 | 8.43  | 2.99 | 6.98                             |
| 69+52 |      |       | 4.52 | 11.38 | 8.35  | 3.03 | 7.06                             |
| 69+74 |      |       | 4.44 | 11.46 | 8.30  | 3.16 | 7.32                             |
| 69+94 |      |       | 4.63 | 11.27 | 8.26  | 3.11 | 7.12                             |
| 70    |      |       | 4.40 | 11.50 | 8.25  | 3.25 | 7.50                             |

|       |       |       |       |
|-------|-------|-------|-------|
| 14.12 | 13.84 | 13.90 | 14.35 |
| 9.6   | 9.77  | 9.39  | 9.34  |
| 4.52  | 4.37  | 4.51  | 5.01  |
| 13.12 | 13.92 | 11.42 | 11.38 |
| 9.16  | 9.02  | 8.43  | 8.35  |
| 3.96  | 4.90  | 2.99  | 3.03  |
| 11.46 | 11.27 | 11.50 | 9.02  |
| 8.30  | 8.26  | 8.25  | 2.0/2 |
| 3.16  | 3.01  | 3.25  | 8     |

Ditch

| STA.  | B.S. | H.I.  | F.S. | ELEV. | GRADE | CUT  | FILL<br><small>top width</small> |
|-------|------|-------|------|-------|-------|------|----------------------------------|
| 67+12 | 3.58 | 15.90 | 6.25 | 12.32 | 8.82  | 3.50 | 8.00                             |
| 68+12 |      |       | 3.32 | 12.58 | 8.62  | 3.96 | 8.92                             |

|       |       |       |       |
|-------|-------|-------|-------|
| 7.66  | 6.02  | 15.90 | 15.90 |
| 9.04  | 6.50  | 6.10  | 3.04  |
| 8.74  | 7.92  | 9.80  | 10.86 |
| 9.02  | 15.90 | 8.43  | 8.82  |
| 10.02 | 6.18  | 1.37  | 2.04  |
| 7.92  | 9.72  |       |       |
| 9.80  | 8.67  | 5.90  |       |
| 5.98  | 1.10  | 7.56  |       |
| 6.06  |       | 8.34  |       |
| 6.32  |       | 8.25  |       |







| STA.   | B.S. | H.I.  | F.S. | ELEV. | GRADE | CUT  | FILL |
|--------|------|-------|------|-------|-------|------|------|
| 13     |      | 20.57 | 5.10 | 85.47 | 85.72 |      | .25  |
| 14     |      |       | 5.42 | 85.15 | 85.15 |      |      |
| 150    |      |       | 5.43 | 85.12 | 85.11 | .01  |      |
|        | 4.08 | 89.20 |      |       |       |      |      |
| 16     |      |       | 4.24 | 84.26 | 85.07 |      | .11  |
| 17     |      |       | 4.46 | 84.74 | 85.03 |      | .29  |
| 18     |      |       | 4.31 | 84.89 | 84.99 |      | .10  |
| 19     |      |       | 4.24 | 84.90 | 84.95 | .01  |      |
| 0      |      |       | 4.60 | 84.60 |       |      |      |
|        | 4.00 | 89.40 |      |       |       |      |      |
| 20     |      |       | 4.99 | 84.91 | 84.91 |      |      |
| 21     |      |       | 5.01 | 84.39 | 84.30 | .09  |      |
| 22     |      |       | 5.40 | 84.00 | 83.69 | .31  |      |
| 230    |      |       | 6.37 | 83.03 | 83.08 |      | .05  |
|        | 4.16 | 87.19 |      |       |       |      |      |
| 24     |      |       | 4.54 | 83.65 | 82.47 | 1.18 |      |
| 25     |      |       | 4.83 | 82.36 | 81.86 | .50  |      |
| 26     |      |       | 5.96 | 81.23 | 81.23 |      |      |
| 270    |      |       | 7.00 | 80.19 | 81.26 |      | 1.07 |
|        | 4.02 | 84.21 |      |       |       |      |      |
| 28     |      |       | 4.13 | 80.08 | 81.30 |      | 1.22 |
| 281.57 |      |       | 4.33 | 79.88 |       |      |      |
|        |      |       | 8.6  | 75.61 |       |      |      |
| 29     |      |       | 4.94 | 79.27 | 81.33 |      | 2.06 |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

W. walls front yard at 19+15

3.68

61

41

.03

Top of wooden bridge  
Bed of stream



| STA.  | B.S. | H.I.  | F.S.  | ELEV. | GRADE | CUT | FILL |
|-------|------|-------|-------|-------|-------|-----|------|
| 30    |      | 84.21 | 9.35  | 79.86 | 81.87 |     | 1.51 |
| 31    |      |       | 2.82  | 81.39 | 81.90 |     | .01  |
| 31.5  |      |       | 2.85  | 81.36 |       |     |      |
| 32    |      |       |       |       |       |     |      |
|       |      | 3.80  | 85.16 |       |       |     |      |
| 31+75 |      |       | 2.63  | 82.53 |       |     |      |
| 32    |      |       | 3.52  | 81.67 | 81.93 | .21 |      |
| 33    |      |       | 5.01  | 80.15 | 81.97 |     | 1.32 |
| 34    |      |       | 5.27  | 79.89 | 81.50 |     | 1.61 |
| 34+70 | BM   |       | 4.54  | 80.62 |       |     |      |
|       |      | 4.88  | 85.50 |       |       |     |      |
| 35    |      |       | 5.00  | 80.50 | 81.53 |     | 1.03 |
| 36    |      |       | 4.92  | 80.58 | 81.56 |     | .98  |
| 37    |      |       | 4.58  | 80.92 | 81.60 |     | .68  |
| 38    |      |       | 3.86  | 81.64 | 81.64 |     |      |
|       |      | 7.05  | 88.69 |       |       |     |      |
| 39    |      |       | 6.09  | 82.60 | 82.79 |     | .19  |
| 40    |      |       | 4.97  | 83.72 | 83.94 |     | .22  |
| 41    |      |       | 3.95  | 84.74 | 85.09 |     | .35  |
| 42    |      |       | 2.19  | 86.50 | 86.24 | .26 |      |
| 42+0  |      |       | 1.90  | 87.29 |       |     |      |
|       |      | 6.64  | 93.93 |       |       |     |      |
| 43    |      |       | 6.00  | 87.93 | 87.39 | .54 |      |
| 44    |      |       | 4.99  | 88.94 | 88.34 | .50 |      |
|       |      |       | 10.57 | 83.38 |       |     |      |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Augusta Hobard's yard gate

Barn

Bridge floor N. side.

89.70

8.06

1.15

Entrance to Little Lane

Bottom of ditch at 44



| STA.  | B.S. | H.I.  | F.S.   | ELEV. | GRADE | CUT | FILL |
|-------|------|-------|--------|-------|-------|-----|------|
| 45    |      | 93.93 | 5.05   | 88.88 | 89.70 |     | .82  |
| 460   |      |       | 5.34   | 88.53 | 89.70 |     | .11  |
|       |      | 5.61  | 94.20  |       |       |     |      |
| 46+85 |      |       | 8.32   | 85.88 |       |     |      |
| 47    |      | 5.43  | 88.77  | 89.70 |       |     | .07  |
| 48    |      | 4.81  | 89.39  | 89.70 |       |     | .31  |
| 49    |      | 4.00  | 89.40  | 89.70 |       |     | .30  |
| 500   |      | 4.50  | 89.70  | 89.70 |       |     |      |
|       |      | 5.73  | 95.43  |       |       |     |      |
| 51    |      | 5.30  | 90.13  | 90.30 |       |     | .17  |
| 52    |      | 4.25  | 90.48  | 90.91 |       |     | .43  |
| 53    |      | 4.29  | 91.14  | 91.51 |       |     | .37  |
| 540   |      | 3.90  | 91.53  | 92.12 |       |     | .59  |
|       |      | 6.19  | 97.12  |       |       |     |      |
| 55    |      | 5.53  | 92.19  | 92.72 |       |     | .53  |
| 56    |      | 4.83  | 92.89  | 93.33 |       |     | .44  |
| 57    |      | 4.61  | 93.11  | 93.93 |       |     | .82  |
| 580   |      | 4.05  | 93.67  | 94.54 |       |     | .87  |
|       |      | 6.70  | 101.37 |       |       |     |      |
| 59    |      | 6.12  | 94.25  | 95.14 |       |     | .89  |
| 60    |      | 5.04  | 95.33  | 95.75 |       |     | .42  |
| 61    |      | 4.30  | 96.07  | 96.35 |       |     | .28  |
| 620   |      | 3.77  | 96.60  | 96.96 |       |     | .36  |
|       |      | 6.40  | 103.00 |       |       |     |      |

80

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

No Headers  
Bottom of sewer 20" x 22" 18"

12,30  
.6







| STA.  | B.S.  | H.I.   | F.S.  | ELEV.             | GRADE  | CUT  | FILL |
|-------|-------|--------|-------|-------------------|--------|------|------|
| 79    |       | 112.52 | 6.97  | 105.55            | 108    |      |      |
|       |       |        |       | <del>106.20</del> |        |      |      |
| 80    |       |        | 4.65  | 107.87            | 108.90 |      | 65   |
| 81    |       |        | 1.94  | 110.58            | 111.80 |      | 53   |
| 0     |       |        | 2.2   | 110.60            | 112.30 |      | 62   |
|       | 9.70  | 122.00 |       |                   |        |      |      |
| 82    |       |        | 8.89  | 113.11            | 112.80 |      | 31   |
| 83    |       |        | 5.14  | 116.86            | 115.80 | 1.86 |      |
| 83+50 |       |        | 10.47 | 111.53            |        |      |      |
| 84    |       |        | 5.12  | 116.88            | 116.23 |      | 65   |
| 85 0  |       |        | 4.55  | 117.45            | 117.76 |      | 01   |
|       | 6.50  | 123.95 |       |                   |        |      |      |
| 86    |       |        | 6.05  | 117.90            | 118.84 |      | 79   |
| 87    |       |        | 5.17  | 118.28            | 119.22 |      | 1.17 |
| 88    |       |        | 3.90  | 120.05            | 121.15 |      | 1.10 |
| 89 0  |       |        | 2.30  | 121.65            | 122.38 |      | 75   |
|       | 9.05  | 130.70 |       |                   |        |      |      |
| 90    |       |        | 7.08  | 123.62            | 123.62 |      |      |
| 91    |       |        | 4.92  | 125.78            | 130.94 |      | 94   |
| 92    |       |        | 2.63  | 128.01            | 133.37 |      | 1.81 |
| 0     |       |        | 9.2   | 129.78            |        |      |      |
|       | 10.62 | 140.40 |       |                   |        |      |      |
| 93    |       |        | 10.12 | 130.28            | 132.92 |      | 2.64 |
| 94    |       |        | 7.44  | 132.96            | 136.03 |      | 3.17 |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Bottom 24" now in & filled up.  
 Big side from 83+50 900' E on S  
 side & 900' W on N. side. grade now  
 16' wide

8.62  
 1.23

40.38  
 3-10



| STA.   | B.S.  | H.I.   | F.S.  | ELEV.                      | GRADE                      | CUT | FILL | STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|--------|-------|--------|-------|----------------------------|----------------------------|-----|------|------|------|------|------|-------|-------|-----|------|
| 95     |       |        |       | <sup>14063</sup><br>139.13 |                            |     | 2.65 |      |      |      |      |       |       |     |      |
| 960    |       |        | .70   | 139.70                     |                            |     | 2.33 |      |      |      |      |       |       |     |      |
|        | 11.41 | 151.11 |       |                            |                            |     |      |      |      |      |      |       |       |     |      |
| 97     |       |        | 7.57  | 143.60                     | <sup>14547</sup><br>143.33 |     | 1.73 |      |      |      |      |       |       |     |      |
| 98     |       |        | 2.59  | 148.52                     | <sup>14790</sup><br>148.43 |     | 0.9  |      |      |      |      |       |       |     |      |
| 0      |       |        | .91   | 150.70                     |                            |     |      |      |      |      |      |       |       |     |      |
|        | 11.10 | 161.80 |       |                            |                            |     |      |      |      |      |      |       |       |     |      |
| 99     |       |        | 8.27  | 152.53                     | <sup>15032</sup><br>151.53 |     |      |      |      |      |      |       |       |     |      |
| 99     |       |        | 10.32 | 151.80                     |                            |     |      |      |      |      |      |       |       |     |      |
| 100    |       |        | 3.83  | 157.97                     | <sup>15274</sup><br>154.67 |     | 3.33 |      |      |      |      |       |       |     |      |
| 0      |       |        | 1.19  | 160.61                     |                            |     |      |      |      |      |      |       |       |     |      |
|        | 11.70 | 172.31 |       |                            |                            |     |      |      |      |      |      |       |       |     |      |
| 101    |       |        | 2.20  | 163.11                     | <sup>15516</sup><br>157.71 |     | 3.57 |      |      |      |      |       |       |     |      |
| 102    |       |        | 5.40  | 166.91                     | <sup>15758</sup><br>160.54 |     | 6.07 |      |      |      |      |       |       |     |      |
| 103    |       |        | 4.44  | 167.87                     | <sup>16000</sup><br>162.43 |     | 3.87 |      |      |      |      |       |       |     |      |
| 1040   |       |        | 5.15  | 167.16                     | <sup>160</sup><br>162.00   |     | 3.16 |      |      |      |      |       |       |     |      |
|        | 15.3  | 168.69 |       |                            |                            |     |      |      |      |      |      |       |       |     |      |
| 104184 |       |        | 2.90  | 165.70                     | <sup>160</sup>             |     |      |      |      |      |      |       |       |     |      |
| 105    |       |        | 5.57  | 163.12                     | 162.99                     |     | 1.3  |      |      |      |      |       |       |     |      |
| 106    |       |        | 7.48  | 161.2                      | <sup>160</sup><br>161.98   |     | .77  |      |      |      |      |       |       |     |      |
| 1070   |       |        | 8.80  | 159.89                     | <sup>160</sup><br>160.97   |     | 1.08 |      |      |      |      |       |       |     |      |
|        | 4.00  | 163.89 |       |                            |                            |     |      |      |      |      |      |       |       |     |      |
| 108    |       |        | 2.87  | 159.09                     | <sup>160</sup><br>159.94   |     | .94  |      |      |      |      |       |       |     |      |
| 108120 |       |        | 5.92  | 151.37                     |                            |     |      |      |      |      |      |       |       |     |      |
|        |       |        |       |                            | 5359                       | ids |      |      |      |      |      |       |       |     |      |

Road intersection at 10's. of Caroline

Bottom of washout on N. side of 99

Highest pt. between Indpls & T. H.  
Barrett's gate same level

Hotel barn gate

12" drain



| STA.   | B.S. | H.I.   | F.S. | ELEV.  | GRADE  | CUT | FILL | STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|--------|------|--------|------|--------|--------|-----|------|------|------|------|------|-------|-------|-----|------|
|        |      | 162.89 |      |        |        |     |      |      |      |      |      |       |       |     |      |
| 109    |      |        | 5.14 | 153.75 | 158.95 |     | 20   |      |      |      |      |       |       |     |      |
| 110    |      |        | 5.12 | 153.77 | 157.94 | .83 |      |      |      | 2023 |      |       |       |     |      |
| 110    |      |        | 7.34 | 156.55 | 156.93 |     | 38   |      |      | 1.01 |      |       |       |     |      |
|        | 2.03 | 158.98 |      |        |        |     |      |      |      |      |      |       |       |     |      |
| 112    |      |        | 3.75 | 154.83 | 155.92 |     | 1.09 |      |      |      |      |       |       |     |      |
| 113    |      |        | 5.06 | 153.53 | 154.91 |     | 1.39 |      |      |      |      |       |       |     |      |
| 114    |      |        | 5.91 | 152.67 | 153.90 |     | 1.23 |      |      |      |      |       |       |     |      |
| 115    |      |        | 6.80 | 151.78 | 152.69 |     | 1.11 |      |      |      |      |       |       |     |      |
|        | 3.73 | 155.51 |      |        |        |     |      |      |      |      |      |       |       |     |      |
| 116    |      |        | 4.97 | 151.04 | 151.88 |     | .84  |      |      |      |      |       |       |     |      |
| 117    |      |        | 5.45 | 150.06 | 150.87 |     | .81  |      |      |      |      |       |       |     |      |
| 118    |      |        | 6.15 | 149.36 | 149.86 |     | .50  |      |      |      |      |       |       |     |      |
| 119    |      |        | 7.00 | 148.51 | 148.85 |     | .34  |      |      |      |      |       |       |     |      |
|        | 2.75 | 151.46 |      |        |        |     |      |      |      |      |      |       |       |     |      |
| 120    |      |        | 4.13 | 147.33 | 147.84 |     | .51  |      |      |      |      |       |       |     |      |
| 121    |      |        | 4.94 | 146.52 | 146.83 |     | .31  |      |      |      |      |       |       |     |      |
| 122    |      |        | 6.07 | 145.39 | 145.82 |     | .43  |      |      |      |      |       |       |     |      |
| 123    |      |        | 6.89 | 144.58 | 144.81 |     | .23  |      |      |      |      |       |       |     |      |
|        | 3.62 | 148.40 |      |        |        |     |      |      |      |      |      |       |       |     |      |
| 124    |      |        | 4.63 | 143.77 | 143.77 |     |      |      |      |      |      |       |       |     |      |
| 125    |      |        | 5.03 | 143.37 | 143.77 |     | 40   |      |      |      |      |       |       |     |      |
| 126    |      |        | 5.48 | 142.92 | 143.77 |     | 85   |      |      |      |      |       |       |     |      |
| 126+15 |      |        | 2.07 | 141.33 |        |     |      |      |      |      |      |       |       |     |      |

Culvert to go in + roads  
Bed



| STA. | B.S. | H.I.   | F.S.  | ELEV.  | GRADE  | CUT  | FILL |
|------|------|--------|-------|--------|--------|------|------|
| 127  |      | 148.90 | 6.3   | 147.77 |        |      |      |
| 127  |      |        | 5.21  | 143.13 | 143.77 |      | .58  |
|      |      |        | 6.90  | 141.50 |        |      |      |
| 1280 |      |        | 9.90  | 143.50 | 143.77 |      | .27  |
|      |      | 3.81   |       | 147.31 |        |      |      |
| 129  |      |        | 4.53  | 142.78 | 142.00 | .78  |      |
| 130  |      |        | 5.06  | 142.25 | 140.23 | 2.02 |      |
| 131  |      |        | 6.47  | 140.84 | 138.46 | 1.38 |      |
| 1320 |      |        | 8.30  | 138.95 | 136.69 | 2.26 |      |
|      |      | 1.72   |       | 140.67 |        |      |      |
| 133  |      |        | 3.34  | 137.33 | 134.92 | 2.41 |      |
| 134  |      |        | 5.62  | 134.98 | 133.15 | 1.83 |      |
| 135  |      |        | 9.25  | 131.42 | 131.38 | .04  |      |
| 1360 |      |        | 12.32 | 128.35 | 129.61 |      | 1.26 |
|      |      | 2.37   |       | 130.72 |        |      |      |
| 137  |      |        | 4.62  | 126.10 | 127.84 |      | 1.74 |
| 138  |      |        | 4.96  | 125.76 | 126.00 |      | .24  |
| 139  |      |        | 5.14  | 125.58 | 127.61 |      | 2.03 |
| 1400 |      |        | 3.82  | 126.90 | 129.22 |      | 2.32 |
|      |      | 8.14   |       | 135.04 |        |      |      |
| 141  |      |        | 8.32  | 126.92 | 130.83 |      | 4.11 |
| 142  |      |        | 9.25  | 130.69 | 132.44 |      | 1.75 |
| 1430 |      |        | 1.95  | 133.09 | 134.05 |      | .96  |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Top of concrete post NW cor  
Ditch on S. side running E. to  
" pattern at 127

12.25

1.53

2.23

17.77

1412.72 1.01

$$\begin{array}{r} 14 \\ 87 \\ 84 \\ \hline \end{array}$$

Bridge floor N. end.



| STA. | B.S.  | H.I.   | F.S.  | ELEV.  | GRADE  | CUT  | FILL | STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|-------|--------|-------|--------|--------|------|------|------|------|------|------|-------|-------|-----|------|
|      | 98.01 | 142.89 |       | 133.09 |        |      |      |      |      |      |      |       |       |     |      |
| 144  |       |        | 6.68  | 136.21 | 135.66 | .55  |      |      |      |      |      |       |       |     |      |
| 145  |       |        | 4.65  | 138.24 | 137.27 | .97  |      |      |      |      |      |       |       |     |      |
| 146  |       |        | 2.93  | 139.96 | 138.88 | 1.08 |      |      |      |      |      |       |       |     |      |
| 147  |       |        | 1.00  | 141.89 | 140.89 | 1.00 |      |      |      |      |      |       |       |     |      |
|      | 9.37  | 151.26 |       |        |        |      |      |      |      |      |      |       |       |     |      |
| 148  |       |        | 7.17  | 144.09 | 142.10 | 1.99 |      |      |      |      |      |       |       |     |      |
| 149  |       |        | 2.88  | 146.38 | 143.71 | 2.67 |      |      |      |      |      |       |       |     |      |
| 150  |       |        | 2.84  | 148.42 | 145.32 | 3.10 |      |      |      |      |      |       |       |     |      |
| 151  |       |        | .75   | 150.51 | 146.93 | 3.58 |      |      |      |      |      |       |       |     |      |
|      | 5.70  | 156.21 |       |        |        |      |      |      |      |      |      |       |       |     |      |
| 152  |       |        | 4.60  | 151.61 | 148.72 | 2.89 |      |      |      |      |      |       |       |     |      |
| 153  |       |        | 5.60  | 150.61 | 148.72 | 1.89 |      |      |      |      |      |       |       |     |      |
| 154  |       |        | 7.49  | 148.72 | 148.72 |      |      |      |      |      |      |       |       |     |      |
|      |       |        | 10.80 | 145.41 |        |      |      |      |      |      |      |       |       |     |      |
|      |       |        | 8.14  | 148.07 |        |      |      |      |      |      |      |       |       |     |      |
|      |       |        |       |        |        |      |      |      |      |      |      |       |       |     |      |
|      |       |        |       |        |        |      |      |      |      |      |      |       |       |     |      |

End  
100' E  
100' S



72

## Mitchell Road

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

|         |  |  |  |                |  |  |  |
|---------|--|--|--|----------------|--|--|--|
| Filling |  |  |  | 3215 cu. yds @ |  |  |  |
|---------|--|--|--|----------------|--|--|--|

|         |  |  |  |                |  |  |  |
|---------|--|--|--|----------------|--|--|--|
| Cutting |  |  |  | 5577 cu. yds @ |  |  |  |
|---------|--|--|--|----------------|--|--|--|

73

## Walls Road

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

|         |  |  |  |                |  |  |  |
|---------|--|--|--|----------------|--|--|--|
| Cutting |  |  |  | 4459 cu. yds @ |  |  |  |
|---------|--|--|--|----------------|--|--|--|



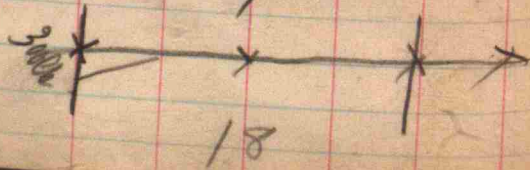




## Lewis Leathers

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

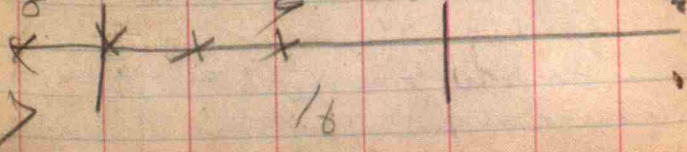
|                               |  |  |  |  |             |  |  |
|-------------------------------|--|--|--|--|-------------|--|--|
| N 1/2 mi, Sec 16              |  |  |  |  | Good stone  |  |  |
| C. SSW <sup>4</sup> sec 9     |  |  |  |  | Stone Work  |  |  |
|                               |  |  |  |  | "           |  |  |
| NW cor Sec 16                 |  |  |  |  | Red oak     |  |  |
|                               |  |  |  |  | Beech       |  |  |
| Cor N N 8 <sup>4</sup> Sec 17 |  |  |  |  | Beech       |  |  |
|                               |  |  |  |  | Blackoak    |  |  |
| Q N NW <sup>4</sup> Sec 17    |  |  |  |  | B oak       |  |  |
|                               |  |  |  |  | W oak       |  |  |
|                               |  |  |  |  | Red oak     |  |  |
|                               |  |  |  |  | Black oak   |  |  |
| C N NE Sec 17                 |  |  |  |  | poplar 24"  |  |  |
|                               |  |  |  |  | Blackoak    |  |  |
| SW cor Sec 8                  |  |  |  |  | Blackoak    |  |  |
|                               |  |  |  |  | oak         |  |  |
| S 1/2 mi sec 7                |  |  |  |  | stone 26x24 |  |  |
| NE cor 18                     |  |  |  |  | stone 22x   |  |  |
| NW cor sec 18                 |  |  |  |  | stone 24x   |  |  |



## Road

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

|  |  |  |  |  |                                |        |     |
|--|--|--|--|--|--------------------------------|--------|-----|
|  |  |  |  |  |                                |        |     |
|  |  |  |  |  | no witness                     |        |     |
|  |  |  |  |  | 8" S 50° W                     | 19     | lk  |
|  |  |  |  |  | 10" N 39° W                    | 28     | lk  |
|  |  |  |  |  | 30" N 44° W                    | 17     | lk  |
|  |  |  |  |  | 18" S 64 1/2° W                | 16     | lk. |
|  |  |  |  |  | 14" S 70° E                    | 21     | lk  |
|  |  |  |  |  | 10" S 35° W                    | 14     | lk  |
|  |  |  |  |  | 30" S 55° W                    | 22     | lk  |
|  |  |  |  |  | 13" S 50° E                    | 24     | lk  |
|  |  |  |  |  | 12" S 1 1/2° E                 | 77     | lk  |
|  |  |  |  |  | 19" N 34 1/2° E                | 82     | lk  |
|  |  |  |  |  | S 48 1/2° E                    | 129    | lk  |
|  |  |  |  |  | 15" N 28 1/2° W                | 11 3/4 | lk  |
|  |  |  |  |  | 30" S 68° W                    | 37     | lk  |
|  |  |  |  |  | 13" S 70° E                    | 16     | lk  |
|  |  |  |  |  | square for oak 12" S 21 1/2° W | 70     | lk  |
|  |  |  |  |  | 15" W oak 24" S 80 1/4° W      | 113    | lk  |
|  |  |  |  |  | " 17" N 80 1/2° E              | 101    | lk  |
|  |  |  |  |  | 20 x 16 Buckeye 16" N 88° E    | 57     | lk  |
|  |  |  |  |  | 8" 20" N 59° E                 | 42     | lk  |





| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Lead to John Park  
to north  $\frac{1}{2}$  mi stone see 18  
to a pt which is  $8\frac{1}{4}$  rods  
section

Witness of stone

$5\frac{1}{2}$  mi stone see 9 from Corn  
15 ft S, from Corner fork  
24 ft  
C S S W 4 stone sta 13 + 22  
31  $\frac{1}{2}$  ft End fork South  
and Jane Speckline  
R def 2'  
NW Cor see 16 26 + 53  
SW 22 ft Lewis Heathers  
SE Edgar Stephens  
R def 32'  
Cen N N 24 see 17 39 + 83 Gate fork  
SE 20 ft Lewis Heathers  
iron gate stands NE  
R def 2'  
Cen N NW 4 see 17 66 + 37  
fence running South

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Edge  
theore S 81° W  $60\frac{1}{4}$  rods  
South of north line said  
29 58

on part of R W Plummer - fence  
of Jas Bryants land NW  
heart of B oak stump SE  
between land of Edger Stephens  
15.45 ft  
 $\frac{1}{2}$  ft Cement corner fork  
scale lot, Corner fork  
land 22  $\frac{1}{2}$  ft  
to which iron gate is being  
land. Gate fork to which  
19  $\frac{1}{2}$  ft Lewis Heathers land  
on line between End fork  
between Ed Bryants land



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

and Howard Pricketts  
fence running north  
and Millard Thompson  
17 ft from north fort  
Rt def 5'

SW cor Sec 8 79 + 65  
Cement end fort SW

Left def 25'

7 1/2 mi Sec 7 106 + 45  
gate as hung NW 22' End of  
Left def 80' 2' 15 ft

Stone 116 + 41  
32' Right deflection

121 + 22

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

and Red Cedar end fort  
between land of Ed Riggs  
16 ft from south fort  
center

End fort SE 22 ft  
22 ft

old gate fort to which  
is between C Higgins + Claver

Curse Stone gate fort against  
which gate should SE 22'  
Cement fort 15'

116.41  
100.43  
165) 9906  
9906  
6















| STA.    | B.S. | H.I.   | F.S. | ELEV.  | GRADE | CUT  | FILL |
|---------|------|--------|------|--------|-------|------|------|
| 61      |      |        | 4.57 | 99.25  | 99    | .25  |      |
| 62      |      |        | 4.02 | 99.80  | 99    | .80  |      |
| 63      |      |        | 4.82 | 99.00  | 99    |      |      |
| 64      | 3.70 | 101.15 | 6.07 | 97.75  | 98.48 |      | .73  |
| 65      |      |        | 4.20 | 97.25  | 97.95 |      | .70  |
| 66      |      |        | 4.54 | 98.61  | 97.42 |      | .81  |
| B.M.    |      |        | 1.27 | 100.18 |       |      |      |
| 67      |      |        | 5.24 | 96.21  | 96.89 |      | .68  |
| 68      | 4.10 | 99.55  | 6.00 | 95.45  | 96.36 |      | .91  |
| 69      |      |        | 4.46 | 95.09  | 95.83 |      | .74  |
| 70      |      |        | 4.65 | 94.90  | 95.30 |      | .40  |
| 70 + 40 |      |        | 5.58 | 93.97  |       |      |      |
| 71      |      |        | 4.73 | 94.82  | 94.77 | .05  |      |
| 72      | 3.02 | 98.15  | 4.42 | 95.18  | 94.24 | .89  |      |
| 73      |      |        | 4.10 | 94.05  | 93.71 | .34  |      |
| 74      |      |        | 4.95 | 93.20  | 93.18 | .02  |      |
| 75      |      |        | 5.07 | 93.08  | 92.65 | .43  |      |
| 75 + 40 |      |        | 6.41 | 91.74  |       |      |      |
| 76      | 3.50 | 97.25  | 4.70 | 93.45  | 92.12 | 1.33 |      |
| 77      |      |        | 2.10 | 95.15  | 91.59 | 3.56 |      |
| 78      |      |        | 4.80 | 92.45  | 91.26 | 1.39 |      |
| 79      |      |        | 6.76 | 90.47  | 90.53 | .04  |      |
| 80      |      |        | 7.77 | 89.50  | 90.00 |      | .50  |
| B.M.    |      |        | 2.40 | 94.85  |       |      |      |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Red Cedar joint

12" pipe flange mouth

12" pipe flange mouth

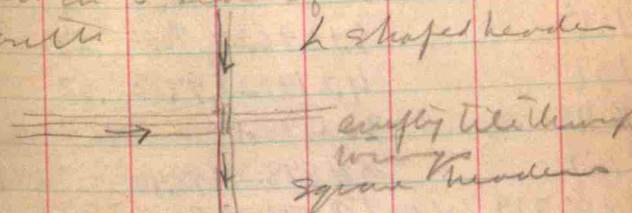
Concrete corner joint SW lot



| STA.                                      | B.S.  | H.I.  | F.S. | ELEV. | GRADE | CUT | FILL |
|---|-------|-------|------|-------|-------|-----|------|
|   | 3.70  | 93.20 |      |       |       |     |      |
| 81  |       |       | 4.55 | 88.65 | 90.   |     | 1.35 |
| 82  |       |       | 4.51 | 88.69 | 90.   |     | 1.31 |
| 82 + 80                                   |       |       | 9.43 | 83.77 |       |     |      |
| 83  |       |       | 4.88 | 88.32 | 90.   |     | 1.68 |
| 84  | 4.48  | 93.18 | 4.50 | 88.70 | 90.   |     | 1.30 |
| 85  |       |       | 4.62 | 88.56 | 90.   |     | 1.44 |
| 86  |       |       | 4.48 | 88.70 | 90.   |     | 1.30 |
| 87  |       |       | 3.52 | 89.66 | 90.   |     | .34  |
| 86 + 80                                   |       |       | 7.20 | 85.98 |       |     |      |
| 88  | 6.60  | 96.09 | 3.69 | 89.49 | 90.00 |     | .51  |
| 89  |       |       | 5.77 | 90.32 | 90.87 |     | .55  |
| 90  |       |       | 4.64 | 91.45 | 91.75 |     | .30  |
| 91  |       |       | 3.90 | 92.19 | 92.62 |     | .43  |
| 92  | 4.90  | 98.34 | 2.65 | 93.44 | 93.50 |     | .06  |
| 93  |       |       | 4.39 | 93.95 | 93.50 |     | .45  |
| B.M. <sup>under ground</sup><br>and first |       |       | 4.92 | 93.42 |       |     |      |
| 94  | grade |       | 4.84 | 93.50 | 93.50 |     |      |
| 95  |       |       | 5.38 | 92.96 | 93.50 |     | .54  |
| 96  | 5.06  | 97.65 | 5.74 | 92.59 | 93.50 |     | .91  |
| 97  |       |       | 5.14 | 92.51 | 93.50 |     | .99  |
| 97 + 20                                   |       |       | 6.25 | 91.40 |       |     |      |
| 98  |       |       | 4.87 | 92.78 | 93.50 |     | .72  |
| 99  |       |       | 3.00 | 94.65 | 93.50 |     | 1.15 |

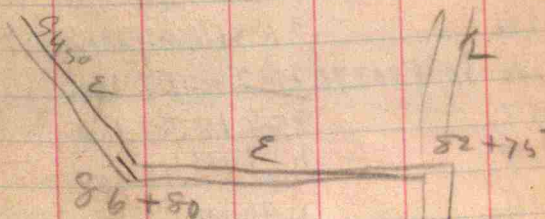
| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Ditch bottom 3' boiler shell  
in place. ditch come from  
west on S side of road + turn  
south



Run station 82 + 60. lay road  
north 3' to sta. 86 + 80

Ditch bottom 2' x 20 in pipe  
in place flowing S. 30° E



replace by 3' boiler shell  
and extend header parallel to  
road north on place







| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

|        |  |  |     |        |     |  |     |
|--------|--|--|-----|--------|-----|--|-----|
| 120    |  |  | 389 | 103.82 | 104 |  | .18 |
| 121    |  |  | 414 | 103.57 | 104 |  | .43 |
| 121+22 |  |  |     |        | 104 |  |     |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

LL



| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Check Weaver Bridge

16 pc 3x10 - 12

14 x 6 | 2 x 4's sub

4 pc 2x6 - 14 no 1 y.f.

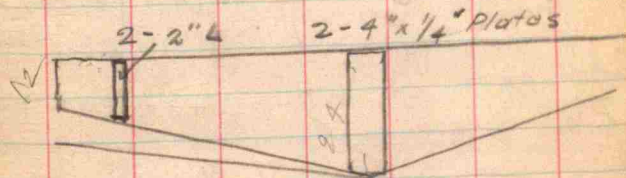
7 pc 2x6 - 12

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

2" Ls

1/4" plate 1' at ends  
to 2" of con

2" Ls





| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|



All ties and struts  
are L's

2- 3 1/2" x 2 1/2" L  
long way vert

Hub guard  
L's



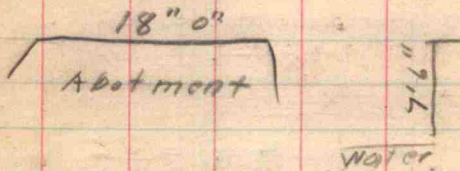
7" x 1 1/2" x 1/4" L  
chan out  
7" x 3/2" IS  
14" girder



All cons. rigid  
No pins.  
vert struts  
bolted to floor  
girders & plate

## BRIDGE

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

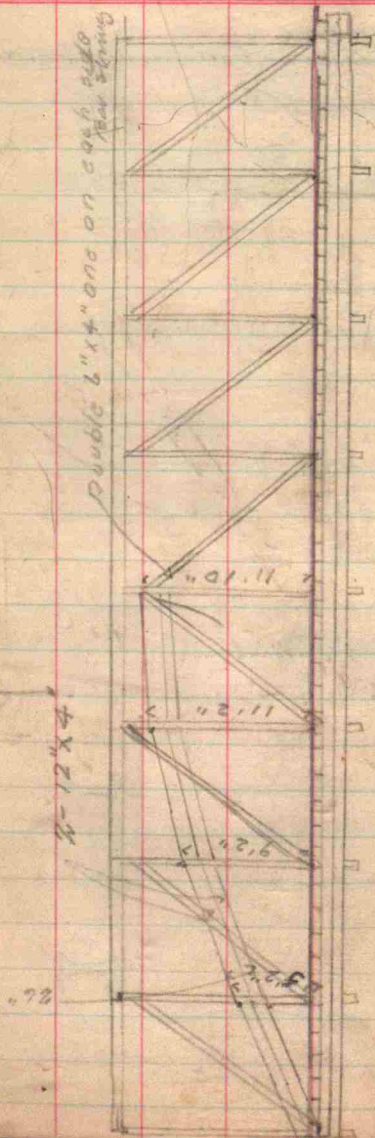




## BROWNSBURG

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

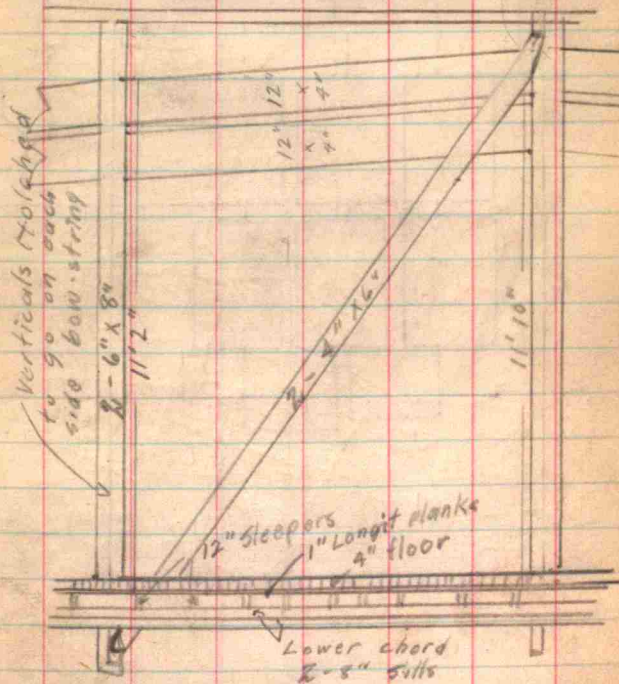
GENERAL TRUSS PLAN



## COVERED BRIDGE

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

DETAILS MIDDLE PANELS

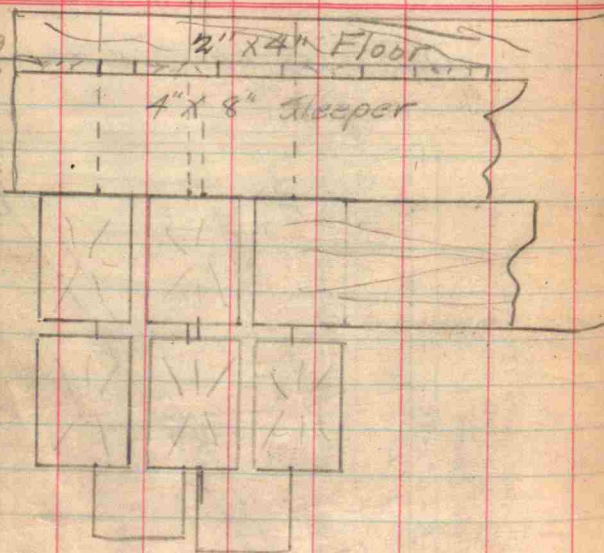




104

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

1" long  
plank



$$\begin{array}{r} 11.8 \\ 3 \\ \hline 35.4 \end{array}$$

105

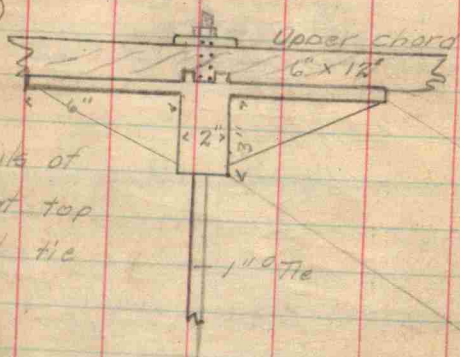
| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|



DETAILS NORTH

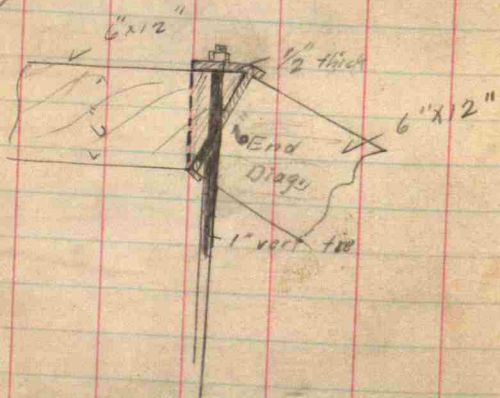
| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

(A)



Details of  
Plate at top  
vertical tie

(B)



SALEM BRIDGE

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|







110

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Stirrup Details  
 Lateral-Brace connection  
 Joints.  
 End Brace conn.  
 Lattice conn.  
 Meas Eye bolts  
 I Beams.

111

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|



112

## Lewis Phittippo

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

## Transit

N  $\frac{1}{2}$  mi stone Sec 8  
 Double gray ash 8" diam  
 Apple tree 16" diam  
 R def 5'

NE Cor Sec 8 46+93  
 NE Farmed end <sup>6+9</sup> point  
 Left def 10 35'

NE Cor Sec 9 Apple tree 204' SE  
 99+60 End fork 19' SW

Left deflection  $\frac{1}{2}$  30'

Can run bridge

R def 50'

End 126+5

4693 113  
 2161  
 2532

## Road

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

## Notes

Tp 14 R 2 W Sta 21+61  
 NE 23'  
 NW 22'

Stone Big gate <sup>12x12</sup> post 19.5'  
 20' NW

Apple tree 204' SE  
 fork 19' SW

104+88



Lewis A. Phillips

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Adjustment

4

5.82

0

$$\begin{array}{r} 3.70 \\ \underline{2.12} \end{array}$$

4

4.15

$$\begin{array}{r} 2.12 \\ \underline{2.03} \end{array}$$


---

BM 143

100

0

203

1

260

2

3.20

3

3.91

4

5.10

5

7.30

6

7.90

7

7.78

7

5.91

8

5+80

7.72

8

4.98

9

3.92

10

3.95

10

.80

Ret.

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

of Level

Highest Rock over end of  
iron pipe NW corner Road intersecting  
top of corner stone flush  
with surface of road. intersecting  
huds level

7 joints 15" sewer pipe  
Concrete box culvert



| STA.    | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|---------|------|------|------|-------|-------|-----|------|
| 11      |      |      | 1.43 |       |       |     |      |
| 12      |      |      | 2.80 |       |       |     |      |
| 13      |      |      | 3.90 |       |       |     |      |
| 13 + 20 |      |      | 3.09 |       |       |     |      |
| 14      |      |      | 4.57 |       |       |     |      |
| 15      |      |      | 3.28 |       |       |     |      |
| 16      |      |      | 6.30 |       |       |     |      |
| 16      | 2.47 |      |      |       |       |     |      |
| 17      |      |      | 3.47 |       |       |     |      |
| 18      |      |      | 4.92 |       |       |     |      |
| 17 + 85 |      |      | 5.86 |       |       |     |      |
|         |      |      | 4.95 |       |       |     |      |
|         |      |      | 5.10 |       |       |     |      |
| 19      |      |      | 6.34 |       |       |     |      |
| 20      | 1.68 |      | 7.95 |       |       |     |      |
| 21      |      |      | 2.53 |       |       |     |      |
| 22      |      |      | 3.94 |       |       |     |      |
| 23      |      |      | 5.31 |       |       |     |      |
| 24      |      |      | 6.42 |       |       |     |      |
| 24      | 1.77 |      |      |       |       |     |      |
| 25      |      |      | 3.13 |       |       |     |      |
| 25 + 80 |      |      | 5.57 |       |       |     |      |

| STA.   | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|--|------|------|------|-------|-------|-----|------|
| 12" pipe L shaped headers to<br>divert water from west to south<br>Jesse Masten's gateway<br>Bourn " " |      |      |      |       |       |     |      |

12" in. pipe L shaped headers to  
divert water from west to south



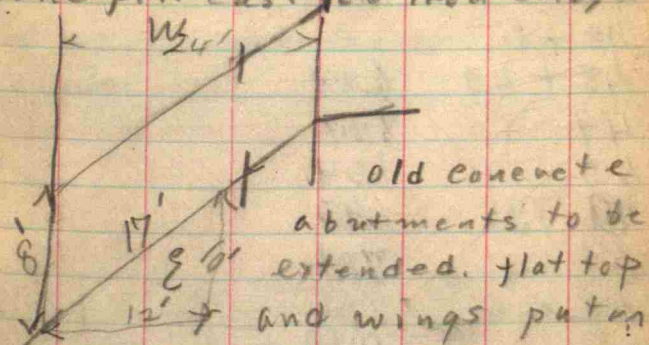
| STA.  | B.S. | H.I. | F.S.  | ELEV. | GRADE            | CUT | FILL |
|-------|------|------|-------|-------|------------------|-----|------|
| 26    |      |      | 4.65  |       |                  |     |      |
| 27    |      |      | 6.05  |       |                  |     |      |
| 28    |      |      | 8.06  |       |                  |     |      |
| 28    | 0    |      |       |       |                  |     |      |
| 29    |      |      | 2.43  |       |                  |     |      |
| 30    |      |      | 5.18  |       |                  |     |      |
| 31    |      |      | 6.05  |       |                  |     |      |
| 30+75 |      |      | 11.40 |       | Lower side culm. |     |      |
| 32    |      |      | 5.53  |       |                  |     |      |
| 32    | .50  |      |       |       |                  |     |      |
| 32+50 |      |      | 3.92  |       | Gateway          |     |      |
| 33    |      |      | 10.58 |       |                  |     |      |
| 33    | 1.10 |      |       |       |                  |     |      |
| 34    |      |      | 7.22  |       |                  |     |      |
| 34+75 |      |      | 7.39  |       | top of bridge    |     |      |
|       |      |      | 10.77 |       | ditch bottom     |     |      |
| 35    |      |      | 8.58  |       |                  |     |      |
| 35    |      |      | 9.96  |       |                  |     |      |
| 35    | 3.53 |      |       |       |                  |     |      |
| 36    |      |      | 2.57  |       |                  |     |      |
| 37    |      |      | 5.82  |       |                  |     |      |
| 38    |      |      | 6.41  |       |                  |     |      |
| 39    |      |      | 6.63  |       |                  |     |      |
| 40    |      |      | 2.37  |       |                  |     |      |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Sta 0 to sta 28 road is level  
with fields with furrows  
for side ditches

wooden bridge 3' span 2 1/2 waterway  
2' pipe on concrete box  
culvert

Hill north of road from 31 to 32+50  
to be scooped off and used to  
make fill east to iron bridge



two stakes marked 35  
Sta 28 to 33+50 2' cut which  
will have to be widened  
33+50 to 2nd 35 3' fill to north



| STA.          | B.S.  | H.I. | F.S. | ELEV. | GRADE        | CUT | FILL |
|---------------|-------|------|------|-------|--------------|-----|------|
| 40            | 12.29 |      | B.M. |       | Bridge + 100 |     |      |
| 41            |       |      |      | 10.92 |              |     |      |
| 42            |       |      |      | 8.70  |              |     |      |
| 42            | 11.32 |      |      |       |              |     |      |
| 43            |       |      |      | 6.93  |              |     |      |
| 44            |       |      |      | 5.26  |              |     |      |
| 45            |       |      |      | 3.57  |              |     |      |
| 46            |       |      |      | 3.65  |              |     |      |
| 47            |       |      |      | 4.70  |              |     |      |
| W of stake 47 |       |      |      | 4.12  | dinner       |     |      |
| 47            | 335   |      |      |       |              |     |      |
| 48            |       |      |      | 4.68  |              |     |      |
| 48 + 5        |       |      |      |       |              |     |      |
| 48 + 40       |       |      |      | 6.00  |              |     |      |
| 49            |       |      |      | 3.87  |              |     |      |
| 50            |       |      |      | 1.64  |              |     |      |
| 50            | 795   |      |      | .40   |              |     |      |
| 51            |       |      |      | 7.01  |              |     |      |
| 52            |       |      |      | 5.56  |              |     |      |
| 53            |       |      |      | 4.10  |              |     |      |
| 54            |       |      |      | 2.96  |              |     |      |
| 55            |       |      |      | 3.08  |              |     |      |
| 55            | 194   |      |      |       |              |     |      |
| 56            |       |      |      | 3.27  |              |     |      |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

W end iron bridge  
 ditches on S side of road  
 from 34 + 75 to 40  
 out of way

Old box Culvert 12x12  
 15" pipe

McCloude gate Canal



| STA.    | B.S. | H.I.                | F.S.  | ELEV. | GRADE | CUT          | FILL |
|---------|------|---------------------|-------|-------|-------|--------------|------|
| 57      |      |                     | 422   |       |       |              |      |
| 58      |      |                     | 509   |       |       |              |      |
| 59      |      |                     | 5.25  |       |       |              |      |
| 58 + 75 |      |                     | 7.76  |       |       |              |      |
| 60      |      |                     | 4.71  |       |       |              |      |
| 60      | 157  |                     |       |       |       |              |      |
| 61      |      |                     | 288   |       |       |              |      |
| 62      |      |                     | 4.57  |       |       |              |      |
| 63      |      |                     | 6.11  |       |       |              |      |
| 64      |      |                     | 9.72  |       |       |              |      |
| 65      |      |                     | 12.01 |       |       |              |      |
| 65      | 9.45 |                     |       |       |       |              |      |
| 65 + 30 |      | ab <sup>10.36</sup> |       |       |       |              |      |
| "       |      |                     | 11.83 |       |       | bottom ditch |      |
| 66      |      |                     | 9.58  |       |       |              |      |
| 67      |      |                     | 5.58  |       |       |              |      |
| 68      |      |                     | 4.10  |       |       |              |      |
| 69      |      |                     | 3.94  |       |       |              |      |
| 68 + 75 |      |                     | 5.93  |       |       | bottom ditch |      |
| 70      |      |                     | 2.50  |       |       |              |      |
| 70      | 8.73 |                     |       |       |       |              |      |
| 71      |      |                     | 6.32  |       |       |              |      |
| 72      |      |                     | 4.51  |       |       |              |      |
| 73      |      |                     | 4.59  |       |       |              |      |

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

Road on level with field  
narrow grade

12" iron pipe in place - 18' long  
length flows south

Concrete abutment wood top  $5\frac{1}{2}$ ' for  
2' waterway - 14' long  
rain grade and put in 5' arch  
flows south

12" iron pipe - 16' long flows S  
length







128

| STA.    | B.S.  | H.I. | F.S. | ELEV. | GRADE         | CUT | FILL |
|---------|-------|------|------|-------|---------------|-----|------|
| 92      | .68   |      |      |       |               |     |      |
| 93      |       |      | 4.35 |       |               |     |      |
| 93 + 94 |       |      | 9.86 |       | direct bottom |     |      |
| 94      |       |      | 6.87 |       |               |     |      |
| 95      |       |      | 4.20 |       |               |     |      |
| 96      |       |      | 3.65 |       |               |     |      |
| 96      | .30   |      |      |       |               |     |      |
| 97      |       |      | 3.10 |       |               |     |      |
| 98      |       |      | 6.08 |       |               |     |      |
| 99      |       |      | 8.30 |       |               |     |      |
| 100     |       |      | 8.95 |       |               |     |      |
| 100     | .89   |      |      |       |               |     |      |
| 101     |       |      | 3.08 |       |               |     |      |
| 102     |       |      | 6.02 |       |               |     |      |
| 103     |       |      | 8.12 |       |               |     |      |
| 104     |       |      | 7.30 |       |               |     |      |
| B.M.    |       |      | 3.30 |       |               |     |      |
| 105     | 4.17  |      |      |       |               |     |      |
| 106     |       |      | 8.43 |       |               |     |      |
| 107     |       |      | 7.77 |       |               |     |      |
| 108     |       |      | 4.50 |       |               |     |      |
| 0       |       |      | .10  |       |               |     |      |
| 0       | 12.37 |      |      |       |               |     |      |
| 109     |       |      | 9.83 |       |               |     |      |

7 joints 18" sewer tiles in place  
 4 or 5' arch culvert  
 South

Flow not steady







132

Euliss  
Euliss Ditch

| STA. | B.S. | H.I.   | F.S. | ELEV.  | GRADE | CUT | FILL |
|------|------|--------|------|--------|-------|-----|------|
| 0    | 4.98 | 104.98 |      | 100    |       |     |      |
| 1    |      |        | 4.09 | 100.89 |       |     |      |
| 2    |      |        | 5.00 | 99.98  |       |     |      |
| 3    |      |        | 4.7  | 100.22 |       |     |      |
| 3    | 5.89 | 106.11 |      |        |       |     |      |
| 4    |      |        | 5.40 | 100.71 |       |     |      |
| 5    |      |        | 5.46 | 100.65 |       |     |      |
| 6    |      |        | 5.54 | 100.57 |       |     |      |
| 7    |      |        | 6.07 | 100.06 |       |     |      |
| 8    |      |        | 7.14 | 98.97  |       |     |      |
| 8    | 5.74 | 104.71 |      |        |       |     |      |
| B.M. |      |        | 3.10 | 101.61 |       |     |      |
| 9    |      |        | 6.47 | 98.24  |       |     |      |
| 10   |      |        | 3.98 | 100.73 |       |     |      |
| 10   |      |        | 4.35 | 100.36 |       |     |      |
| 11   |      |        | 4.62 | 100.09 |       |     |      |
| 12   |      |        | 6.05 | 98.66  |       |     |      |
| 12   | 3.80 | 102.46 |      |        |       |     |      |
| 13   |      |        | 4.22 | 98.24  |       |     |      |
| 14   |      |        | 4.54 | 97.92  |       |     |      |
| 15   |      |        | 4.66 | 97.80  |       |     |      |
| 16   |      |        | 5.30 | 97.16  |       |     |      |
| 16   | 3.11 | 100.27 |      |        |       |     |      |
| 17   |      |        | 3.67 | 96.65  |       |     |      |

133

- Washington Tp.

| STA. | B.S.   | H.I. | F.S.    | ELEV. | GRADE | CUT | FILL  |
|------|--------|------|---------|-------|-------|-----|-------|
|      | 100.09 |      |         | 100   |       |     |       |
|      | 1.84   |      |         | 92.08 |       |     |       |
|      |        |      | 98.25   |       |       |     |       |
|      |        |      | 7.92    |       |       |     |       |
|      |        |      | 12      |       |       |     |       |
|      |        |      | 96.33   |       |       |     |       |
|      |        |      | 195.04  |       |       | 4   |       |
|      |        |      | 92      |       |       |     | 98.24 |
|      |        |      |         |       |       |     | 3     |
|      |        |      | 12.22   |       |       |     | 95.24 |
|      |        |      | 11.8333 |       |       |     | 1.50  |
|      |        |      |         |       |       |     | 96.74 |

Brevet ash stamp

Mud of Road







$\frac{136}{15} + 15 = 5.62$   
 $\frac{7.66}{13.28}$

| STA.  | B.S. | H.I.  | F.S. | ELEV.           | GRADE | CUT | FILL |
|-------|------|-------|------|-----------------|-------|-----|------|
| 0     | 850  | 850   |      | 00              |       |     |      |
| 1     |      |       | 1.94 | 6.56            |       |     |      |
| 2     |      |       | 5.38 | 3.12            |       |     |      |
| 3     |      |       | 4.90 | 3.60            |       |     |      |
| 4     |      |       | 4.35 | 4.15            |       |     |      |
| 5     |      |       | 2.88 | 5.62            |       |     |      |
| 5     | 766  | 13.28 |      |                 |       |     |      |
| 6     |      |       | 5.00 | 8.28            |       |     |      |
| 7     |      |       | 3.57 | 9.71            |       |     |      |
| 8     |      |       | 4.78 | 8.50            |       |     |      |
| 9     |      |       | 4.00 | 9.28            |       |     |      |
| 10    |      |       | 4.62 | 8.66            |       |     |      |
| 11    |      |       | 4.50 | 8.78            |       |     |      |
| 12    |      |       | 4.20 | 9.08            |       |     |      |
| 12    |      |       | 3.49 | <del>9.88</del> |       |     |      |
| 0     | 8.35 | 18.23 |      |                 |       |     |      |
| 13    |      |       | 6.70 | 11.53           |       |     |      |
| 14    |      |       | 5.60 | 12.63           |       |     |      |
| 15    |      |       | 3.45 | 14.78           |       |     |      |
| 15+15 |      |       | 8.14 | 10.19           |       |     |      |

$\frac{9.88}{8.35} = 18.23$  Court House  
 Heating Pipe 137

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|
|------|------|------|------|-------|-------|-----|------|

bottom of pipe in furnace near  
 top of water table  
 stake  
 Cement approach next to door  
 stake  
 Cement finish alley  
 oak door sill warehouse  
 buck door sill McClelland  
 Stake in basement window  
 $3\frac{1}{2}$ " north south edge sidewalk  
 brick st  
 A side brick st  
 middle of sidewalk

Cement walk

Court House  
 Heating Pipe







S

140

5  
19  
26  
34

N

S

N

141

| STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL | STA.  | B.S.      | H.I. | F.S. | ELEV.  | GRADE | CUT | FILL |
|------|------|------|------|-------|-------|-----|------|-------|-----------|------|------|--------|-------|-----|------|
|      |      |      |      |       |       |     |      | 16+71 | 12" maple |      |      | 16 1/2 |       |     |      |
|      |      |      |      |       |       |     |      | 16+85 | 12" maple |      |      | 16 1/2 |       |     |      |
|      |      |      |      |       |       |     |      | 17+13 | 10" maple |      |      | 16 1/2 |       |     |      |
|      |      |      |      |       |       |     |      | 17+27 | 10" "     |      |      | 16 1/2 |       |     |      |
|      |      |      |      |       |       |     |      | 17+42 | 10" "     |      |      | 16 1/2 |       |     |      |
|      |      |      |      |       |       |     |      | 17+55 | 10" "     |      |      | 16 1/2 |       |     |      |
|      |      |      |      |       |       |     |      | 17+69 | 10" "     |      |      | 16 1/2 |       |     |      |
|      |      |      |      |       |       |     |      | 17+84 | 10" "     |      |      | 16 1/2 |       |     |      |
|      |      |      |      |       |       |     |      | 17+86 | Fence     |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 18+04 | Driv      |      |      | 18+0   |       |     |      |
|      |      |      |      |       |       |     |      | 18+10 | 600'      |      |      | 17'    |       |     |      |
|      |      |      |      |       |       |     |      | 18+12 | Fence     |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 18+68 | scallo    |      |      | 14 1/2 |       |     |      |
|      |      |      |      |       |       |     |      | 18+65 | 40" sugar |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 19+73 | Fence     |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 19+0  | 70'       |      |      | 19+0   |       |     |      |
|      |      |      |      |       |       |     |      | 19+33 | Fence     |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 19+38 | gate      |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 19+98 | Plum      |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 20+39 | 8" oak    |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 20+65 | 12" stump |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 20+98 | 12" stump |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 21+15 | 10" stump |      |      |        |       |     |      |
|      |      |      |      |       |       |     |      | 21+45 | 10" stump |      |      |        |       |     |      |







S  
148

STA. B.S. H.I. F.S. ELEV. GRADE CUT FILL

7

S

149

STA. B.S. H.I. F.S. ELEV. GRADE CUT FILL

7

32+04  
10" apple

18'

32+20

18'

10" apple

20'

32+40

22'

8" birch  
52" birch

Drive +73

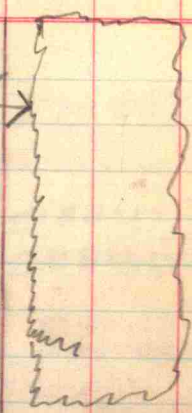
+85 Fence

33+0

34+0

151

20'





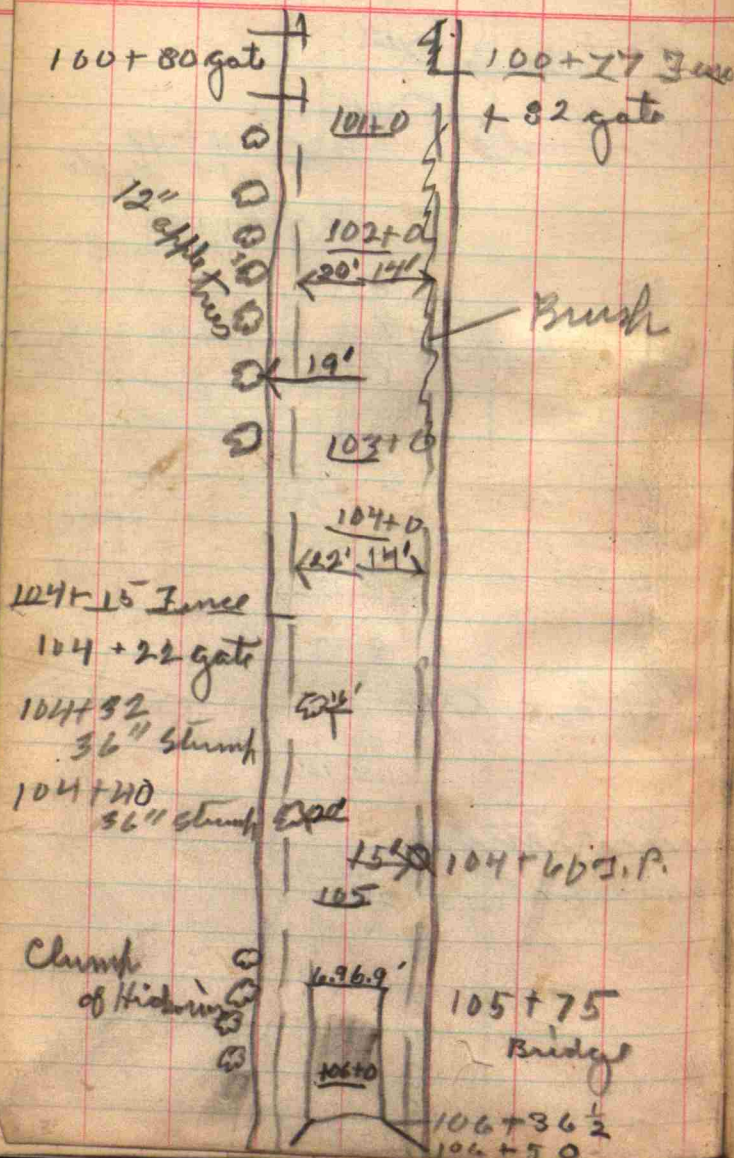








| ST | STA. | B.S. | H.I. | F.S. | ELEV. | GRADE | CUT | FILL |
|----|------|------|------|------|-------|-------|-----|------|
|----|------|------|------|------|-------|-------|-----|------|



Perry Porter arch 1  
 Pin Hook Ford Bridge 5

Andrew Roberts Bridge 11  
 Roberts Bridge 10  
 Stanley Bridge 9  
 Chas Stephenson bridge 2  
 Sellars bridge 19  
 John Whyte sewer 7  
 Chas Wilson Road Estimate 15

York Bridge 11



F.S. 4.86  
7.04 3.01  
92.00 96.99

40 88  
88 426.22  
40 27  
350 22  
350  
2460  
1726