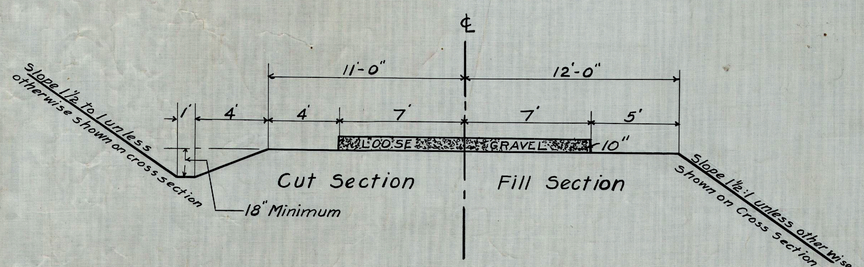
SEC. A.
KILLBUCK-COSHOCTON
KILLBUCK TWP.
1/30

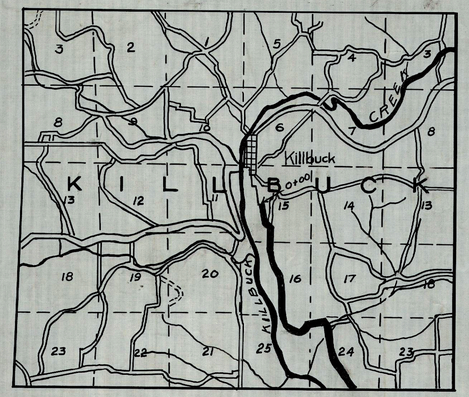
HOLMES COUNTY
DIVISION OF CONSTRUCTION
KILLBUCK-COSHOCTON
SECTION-A ROAD NO 343
KILLBUCK TOWNSHIP

S.R. 60



TYPICAL CROSS SECTION
UNLESS
OTHERWISE SHOWN ON CROSS SECTION SHEETS

Gravel shall be spread uniformly to thickness shown by staking forms on the sides and using a strike-off or by using an adjustable spreader box. The contractor shall keep the placed gravel dragged until all the gravel has been placed.



LOCATION PLAN

0 1/4 1/2 3/4 1 2 3
Scale of Miles

PORTION TO BE IMPROVED ——

Scales

PLAN	1" = 100'
PROFILE (Vertical)	1" = 100'
PROFILE (Horizontal)	1" = 10'
CROSS SECTIONS	1" = 5'

INDEX OF SHEETS

Title and Standard Section	Sheet No 1
Plan and Profile	" " 2-7
Cross Sections	" " 8-23
Culverts and Bridges	" " 24-29
Summary of Quantities	30

The Standard Specifications of the State of Ohio, Division of Highways, in force on August 25, 1925, will govern this improvement unless otherwise shown.

I hereby approve the plans and declare that the making of the improvement will not require the closing to traffic of the Highway.

Approved July 5-1927
Karl Snyder
County Surveyor.

We, the Commissioners of Holmes County hereby approve the plans and certify that the Right of Way 60' Wide is available for the construction, maintenance and repair of the above highway.

Approved. July 5-1927
H. L. Allison
J. A. Mullet
G. M. Hanna
County Commissioners

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP

2 / 30

Nail in Walnut 41.62 25.58 0+00 30.52 Nail in Crossing signpost

Pl. 8+85.80 17.91 29.78 Nail in 2×2 hub Nail in Elm fence post

Nail in 8" Walnut 16.32 19.23 Nail in 8" Walnut Pl. 18+56.50 35.28 Nail in 8" Walnut Pl. 18+56.50

Nail in W. Oak. 26.21 40.55 Nail in Red Oak. Pl. 22+15.50 36.55 Nail in 10" Walnut Pl. 22+15.50

Nail in 6" Beech. 28.92 Pl. 26+45.20 17.95 19.12 Nail in 8" Poplar. Nail in 8" Poplar.

0+00 Beg. of Project E Carpenter

3+27 Oil Well Drive 1 dy. 30:12 V.S.P.

5+85 Build Extension as shown on bridge plan

PC. 6+96.27 Δ = 18°47' L. D = 5° T = 189.53 L = 375.67 E = 15.57

PT. 10+71.24 10+82 Oil Well

R/W acquired of E. Carpenter At Curve 0.206 A.

14+80 Build shown as extension on bridge plan

PC. 17+31.56 Δ = 19°48' R D = 8° T = 125.00 L = 247.50 E = 10.83 PT. 19+79.06

PC. 21+13.90 Δ = 10°8' R D = 5° T = 101.60 L = 202.66 E = 4.62 PT. 23+15.56

PC. 25+65.16 Δ = 3°12' L D = 2° T = 80.04 L = 160.09 E = 1.1

PT. 27+25.14 E. Carpenter J.P. Carpenter

P.R.R. - DRESDEN BRANCH

E. Carpenter.

8+33 Build Culvert - see plan Pl. 8+85.80

Pl. 26+45.20

+34 Remove and relay 16'-10" CIP as directed J.P. Carpenter

29+00 Build culvert as shown on bridge plan

B.M. Elev. 813.46	B.M. Elev. 806.20	B.M. Elev. 810.90	B.M. Elev. 826.82	B.M. Elev. 824.39
2 Spikes in Walnut	N.E. Cor. South Abutment	□ on N.W. Cor. of parapet	2 Spikes in 30" Beech	2 Spikes in W. Oak
Left Sta 0-20	Sta. 5+89	Sta. 14+75	Rt. Sta. 20+75	Rt. Sta 29+95

Pl. 804.10 Pl. 813.25 Pl. 829.00 Pl. 844.21 Pl. 831.32

PC. 9+00 VC. 200' PT 11+00 PC. 16+25 V.C. 250' 18+75 822.66 +6.30 VC 250' PT 21+25 +3.38 PC 22+50 VC. 400' PT 26+50 3.68 PC 27+00 VC. 200' PT 29+00 0.44% +0.58 -0.74 +1.22

Exc. 306 Cu Yds.	Exc. 1723 Cu. Yds.	Exc. 781 Cu Yds.	Exc. 558 Cu Yds.	Exc. 1546 Cu Yds.
Fill +15% 301 " "	Emb. + 15% 1750 " "	Emb +15% 781 " "	Emb. + 15% 559 " "	Emb +15% 1546 " "

Exc. Emb. +10% 1625 991 Cu. Yds. 984 " " 1634

0+00 1 2 3 4 5 6 7 8 +80 9 +35 10 11 +33 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 +80 28 29 30 31

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
3
30
Nail in Chestnut
Nail in 8" W. Oak
32+45 90
36 50
32 32
21 66
Nail in Maple.
38+05 07
20 57
27 46
34 54
Nail in 18" Beech
Nail in 15" Maple
Nail in 6" Elm
Nail in B. Oak
40+63 14
32 14
45 70
46 18
Nail in W. Oak
N. in Chestnut
46 38
41 34
Nail in W. Oak
42+76 61
44 43
Nail in 8" Maple
Nail in 8" W. Oak
56 62
46+15 46
79 90
79 10
Nail in Telpole
49+66 92
46 28
32 59
41 54
Nail in 18" Elm.
Nail in Elm
Edge of Bell of tile - at spring
59+67 70
56 50
28 58
71 25
Nail in fence post.
Nail in 18" Elm.
N.E. Cor. of Curtain wall stone
South abutment
R.R. Culvert
PI. 32+45 90
Δ = 0°-15' R.
Woods
Woods
+12 Remove plank Culvt.
PC. 36+86 30
Δ = 7°07' L
D 3°
T 118 77
L 237.22
E 3.7
PT. 39+23 52
+69 Remove plank Culvt.
PI. 40+63 14
36+50 Build Culvert as shown on plan.
PI. 38+05 07
PC. 39+79 22
Δ 6°40' R
D = 4°
T 83 42
L 166.67
E 2.42
PT. 41+46 39
PC. 41+62 19
Δ 9°08' L
D 4°
T 114.42
L 228.33
E 4.58
PT 43+90 52
PI. 42+76 61
PC. 44+84 00
Δ 20°48'
D 8°
T 131.46
L 260.00
E 11.96
PT. 47+44 00
46+00 Build Culvt. as shown on plan
PI. 46+15 46
46+06 Remove 16'-10" C.I.P. and relay as directed
PI. 49+66 92
+81
PC. 48+45 80
Δ 12°04' R.
D 5°
T 121.12
L 241.33
E 6.38
+69 Spring
PT. 50+87 13
Old road
R/W acquired of J.P. Carpenter
43+00 to 49+00 10' on Left
50+00 to 60+00-60'
60+00 to 62+60 10' on Left
1.55 Acres.
58+95 Build bridge as shown on plan.
PI. 59+67 70
Remove 30'-12" C.I.P. and relay as directed
J.P. Carpenter
+60
S. Lanham
10'
PC. 58+53 49
Δ 2°17' R.
D 1°
T 114.21
L 228.33
E
PT 60+81 82
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63
B.M. Elev. 837.66
2 Spikes in B. Oak
Lt. Sta. 35+75
B.M. Elev. 821.19
2 Spikes in Beech.
Rt. Sta. 38+55
B.M. Elev. 819.65
2 Spikes in Chestnut
Rt. Sta. 41+50
B.M. Elev. 801.19
2 Spikes in Telpole
Rt. Sta. 45+75
B.M. Elev. 801.44
□ on stone
25' Lt. Sta. 50+50
BM Elev. 797.04
2 Spikes in 24" Elm.
Rt. Sta. 59+60
PI. 834.51
PI. 834.81
PI. 805.11
PI. 798.22
PI. 828.03
833.35 833.64 833.93 834.08 833.83 832.26 832.35 831.27 830.19 829.35 828.99 829.12 829.73 830.58 831.43 832.06 832.24 831.97 831.26 830.11 828.52 826.49 824.01 821.31 818.61 815.91 813.21 810.71 808.62 806.93 805.65 804.77 804.30 804.03 803.76 803.49 803.22 802.95 802.68 802.41 802.14 801.87 801.60 801.33 801.06 800.79 800.52 800.25 799.98 799.71 799.44 799.17 798.98 799.11 800.47 801.24 802.20 804.61 807.68 811.35 815.10 818.85 822.60 826.35 829.47
833.1 833.2 833.6 834.4 835.4 833.5 832.4 832.2 830.6 828.2 827.5 827.7 827.8 828.2 829.8 830.5 829.5 829.5 829.7 830.9 830.3 827.8 823.8 820.9 819.0 817.5 814.9 812.2 810.1 808.3 806.8 807.6 807.7 807.9 808.8 809.3 806.4 800.8 797.5 796.6 796.4 795.4 795.7 795.4 795.2 796.5 797.7 797.9 798.3 798.0 797.9 795.7 795.7 795.5 795.0 795.3 796.3 796.5 799.5 802.8 811.3 814.7 818.1 821.6 824.9 828.1
840
830
820
810
800
790
0.44%
+0.58
PC. 32+50
V.C. 200'
PT. 34+50
-2.16
PC. 35+50
V.C. 200
PT. 37+50
+1.695
PC. 38+50
V.C. 400'
PT. 42+50
-5.40
PC. 44+50
V.C. 300
PT. 47+50
-0.54
795.5
ditch grade
794.0
PC. 57+25
V.C. 300'
PT. 60+25
+7.50
+75
Exc.
Emb. +15%
1127 Cu. Yds.
1127 " "
Exc.
Emb. +15%
1365 Cu. Yds.
1365 " "
Exc.
Emb. +10%
4589 Cu Yds.
4566 " "
Exc.
Emb +10%
2113 Cu. Yds.
2156 " "

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.

4 / 30

63+90.32 — Nail in 2" hubs.

Nail in root 20" Maple — 68+31.28

Nail in top of fence post.

72+50.68 — Nail in post of Guard rail

74+68.94 — Nail in post of Guard rail

76+47.32 — Nail in post of Guard rail

79+44.60 — Nail in post of Guard rail

Nail in 12" W.O. — Nail in 12" W Oak — 83+45.52 — 69.05 — Nail in Telpole W. of Rail Road.

Nail in 15" Oak — Nail in R Oak. — 86+78.22 — Nail in 10" Oak.

R/W acquired of Sam Lanham
62+60 - 66+00 10' on Left
71+00 - 72+28 " " "
0.108 A.

R/W acquired of Robt. Hoxworth.
75+50 - 79+00 - 10' on Left
79+00 - 86+00 - 5' " "
89+00 to 93+85 - 60'
0.828 Acres.

Pl. 63+90.32

67+65 Remove 28'-18"CIP and relay as directed. Build Culvert as per plan.

Pl. 68+31.28

+30 Remove 18"-12"CIP +35 Build Culvert as shown on plans.

PC 71+91.88 — Sam Lanham + 2.8 — Nancy Gray

Δ = 5°53'
D = 5°
T = 58.88
L = 117.66
E = 1.15

PT 73+09.46

Pl. 74+68.94

Nancy Gray & R. Hoxworth

PC 75+90.20
Δ 4°34'
D 4°
T 57.12
L = 114.17
E 1.15

PT 77+04.37

PC. 78+81.20
Δ = 6°20
D = 5°
T 63.40
L 126.60
E 1.76

PT 80+07.80

PC 82+01.50
Δ - 11°29'
D. 4°
T. 144.02
L = 287.08
E = 7.22

PT 84+88.58

PC. 85+76.30
Δ 12°11'
D 6°
T 101.92
L 203.05
E 5.42

PT 87+79.35

PC. 88+87.85
Δ 25°47'
D 10°
T 131.15
L 257.83
E 14.82

PT 91+45.68

+15 Build Culvert as shown on plan

old road

PC. 63+05.92
Δ = 8°28'
D = 5°
T = 84.82
L = 169.33
E = 3.14

PT. 64+74.82

PC 65+96.80

Δ = 11°41'
D = 2°30'
T = 234.48
L = 467.33
E = 11.96

70+35 Beg. old G. Rail
PT 70+64.13

Pl. 72+50.68

PC. 74+17.90
Δ 5°06
D 5°
T 51.04
L 102.00
E 1.14

PT. 75+19.90

Pl. 76+47.32

79+44.60 Pl

80+34 End of old G. Rail

Pl. 83+45.52

+50 Remove 16'-10"CIP and relay as directed. +50 Build Culvert as shown on plans.

Pl. 88+78.22

90+09.95 — 57.30 — Nail in dead W.O. — 36.34 — Nail in 8"B Oak — 55.78 — Nail in 24" W.O.

BM Elev. 811.74
2 Nails in root Walnut
Lt. Sta 69+30

BM Elev. 817.34
2 Spikes in W. Oak
Lt. 85+50

BM Elev 803.15
Gov. Bench.
At Sta. 87+95

Pl. 63+37.60 — Pl. 823.08 — Pl. 840.24. — Pl. 820.44 — 80+34 Pl. 814.14 — Pl. 806.04 — Pl. 809.03 — Pl. 828.23

826.35 829.47 831.35 831.94 831.30 829.37 826.20 822.72 819.89 817.70 816.14 815.24 814.97 815.34 816.36 817.70 819.04 820.38 821.92 823.84 826.13 828.80 831.66 834.01 835.33 835.62 834.89 833.14 830.34 827.04 824.02 821.56 819.67 818.34 817.29 816.24 815.15 813.99 812.75 811.44 810.09 808.74 807.61 806.60 806.41 806.50 806.73 806.96 807.19 807.42 807.65 807.88 808.11 808.34 808.82 809.79 811.26 813.22 815.68 818.63 821.76 824.43 826.58 828.19

840 / 830 / 820 / 810 / 800

+7.50 — Pc 62+50 — VC. 300' — 824.9 828.1 830.6 832.2 830.7 827.5 823.6 820.2 816.2 812.8 810.4 809.1 808.9 809.2 810.2 814.0 818.1 820.0 821.2 822.7 825.0 828.9 832.0 833.6 835.2 835.4 835.8 834.3 830.5 826.4 823.6 821.6 819.8 818.1 817.0 816.0 814.9 814.1 812.6 810.2 808.6 807.3 806.6 805.6 805.3 805.5 805.7 805.8 805.2 804.9 804.3 804.2 803.6 803.5 803.4 802.8 804.2 808.2 810.2 814.4 818.6 821.6 826.9 826.9

Pc 65+60 — VC. 400 — Pl. 811.00 — PT 69+50 — +2.68

PC. 71+00 — VC. 200' — PT 73+00 — +5.72

PC 73+50 — VC. 300 — PT 76+50

PC. 77+00 — VC. 200 — PT 79+00 — -2.10

PC 80+00 — VC. 200 — PT 82+00 — -2.70

PC. 83+00 — VC. 200' — PT 85+00 — +0.46

PC. 89+00 — V C. 300 — PT 92+00 — +6.40

PC. 92+25 — VC. 250'

Exc. Emb + 15%

4240 Cu Yds.
4181 " "
59 Yds to be placed in barnyard.

Exc. Emb. + 15%

8139 Cu. Yds
7829 " "

62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94

SEC A
KILLBUCK-COSHOCTON
KILLBUCK TWP
5
30
Pl. 96+72 77
Nail in Walnut
Nail in Walnut
Nail in Walnut
40 03
23 40
4 25
Pl. 103+16 10
64 10
38 95
30 14
Nail in 6" Cherry
Nail in Elm
Nail in W. Oak
2×2 hub
Pl. 112+17 43
30 35
69 65
88 50
Screw in stump
Screw in Walnut-7' high
X on Rock
Screw in 24" Sugar
Pl. 122+09 30
Screw in 18" Maple
Pl. 122+09 30
93+50 H.O.T.
R. Hoxworth
D. Reynolds
+85
P.C. 95+21 80
Δ = 17°58'
D 6°
T 150.97
L 299.44
E 11.87
PT. 98+21 24
99+00 Build Culvert as shown on plan.
100+33.6 H.O.T.
PC. 101+14 35
Grade approach to old Road.
Δ 16°02'
D 4°
T 201.75
L 400.83
E 14.12
PT. 105+15 18
old road
old road
House
+56
+54
+70 Spring
+70 Build 30' Rubble retaining wall - Cemented joints - 15" Top: 24" base. 5 ft. in height.
Pl. 96+72 77
16'
15'
Pl. 103+16 10
106+17 Build Culvt. as shown on plan
R/W. acquired of D. Reynolds.
97+00 - 103+00 15' on Right.
103+00 - 110+55 - 60'-
1.246 Acres.
D. Reynolds
+55
L.M. Carpenter
PC. 111+05 90
Δ 6°41'
D 3°
T 111.53
L 222.77
E 3.27
PT 113+28 67
D. Reynolds
L.M. Carpenter
Pl. 112+17 43
113+50 Build Culvert as shown on plan.
PC 116+38 96
120+35 Build Bridge as shown on plan.
Δ = 89°44'
D = 10°44'
T = 570.34
L = 897.33
E = 235.47
old Road
Grade approach to old road.
R/W acquired of L.M. Carpenter
110+55 - 112+50 60'
112+50 - 114+50 65'
114+50 - 123+50 60'
123+50 - 129+00 10' on Right.
1.93 Acres.
PT 125+36 29
BM. Elev. 819.61 2 Spikes in Chestnut Rt. Sta. 93+55
BM. Elev. 851.07 2 Spikes in Maple Rt Sta 99+20
BM Elev. 861.82 2 Spikes in W. Oak Rt Sta. 102+50
BM. Elev. 856.00 2 Spikes in Walnut Rt. Sta. 112+60
BM. Elev. 802.70 2 Spikes in Hickory. Lt. Sta. 121+50
882.87
Pl. 867.03
865.61 868.33 870.33 871.62 872.19 871.98 871.09 869.42 867.03 864.28 862.00 860.64 860.26 860.78 862.27 864.68 867.57 870.45 873.08 874.70 875.28 874.71 873.32 870.76 867.13 862.52 857.02 851.52 846.02 840.52 835.02 829.52 824.02 818.52 813.47 809.34 806.14 803.84 802.47 802.02 802.02 802.02 802.02 802.27 803.02 804.27 806.02 808.02 809.86 811.37 812.57
Pl. 828.23 826.58 828.19 829.28 830.01 831.38 833.49 Pl. 831.03 836.41 840.13 844.53 849.03 853.53 858.03 862.18
880
870
860
850
840
830
820
820
810
800
790
+6.40
+1.12
94+75
VC 250'
PT 97+25
+9.00
PC. 99+00
VC 200'
P.C.C. 101+00
VC 300
+3.30
Pl. 875.28
-5.50
PT 104+00
PC 104+50
VC. 300'
Pl. 856.03
PT. 107+50
+5.77
PC. 108+65
VC. 400
PT. 112+65
Pl. +65
-11.00
-11.00
PC. 116+50
VC. 300
PT. 119+50
Pl. 802.02
0.00
PC. 121+00
VC 200
Pl. 802.02
PT. 123+00
+4.00
PC. 123+50
VC 300'
Pl. 814.02
Exc. 1617 Cu. Yds
Emb. + 15% 1617 " "
Exc. 1317 Cu. Yds.
Emb. + 15% 1318 " "
Exc. 714 Cu. Yds.
Emb. + 15% 721 " "
Exc. 2322 Cu. Yds.
Emb + 15% 2792 " "
Channel excavation to be used here.
Exc. 1347 Cu. Yds.
Emb. + 15% 1355 " "
+25
+20
826.9 826.9 827.3 P.C.C. 821.8 827.9 831.5 834.4 840.9 844.6 849.0 854.6 858.4 862.7 865.2 868.7 871.3 871.4 871.5 873.5 873.7 871.9 869.4 865.4 861.6 856.0 852.9 856.8 863.8 865.3 868.1 872.3 873.9 873.4 873.3 872.5 872.0 872.4 870.6 867.9 861.5 856.0 847.6 838.6
838.6 833.0 827.0 819.5 818.6 816.5 808.3 800.3 798.7 798.8 799.1 799.3 798.5 799.1 799.0 799.3 798.8 805.1 808.1 811.4 814.6 816.0
802.02
798.5
3.5
PC. 92+25
93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
6
30

Nail in 18" B.O.
49.65
Pl. 135+98.98
38.75
48.72
Nail in 2-2 hubs

Nail in 15" Elm
36.40
Pl. 145+02.72
10.82
6.22
Nail in 4" Ash
Nail in Walnut.

Nail in 16" Butternut
26.83
12.92
3.55
Pl. 150+52.61
Outside cor. Concrete Hwall.

+46 Remove 16'-10" CIP and relay as directed. Build Culvert as shown on plan.

+50 Remove 12'-8" CIP and relay as directed.

PC. 133+66.92
Δ 18°-15'
D 4°
T 230.08
L 456.25
E 18.3

PT 138+25.15

PC. 143+15.20
Δ 14°-55'
D 4°
T 187.52
L 372.92
E 12.2

PT 146+88.12

+25 Sand stone rock

+61 S. Rock

+23 S. Rock

+37 Lay 14'-15" CIP at left end of spring

+26 Outlet spring at left

Pl. 150+52.61

+70 S. Rock

+34 S. Rock

Sandstone nose

PC 156+47.60
Δ 17°-30'
D 15°
T 587.9
L 1116.67
E 4.5
PT. 157+64.27

House

Barn

+80 Remove 14'-10"

+72 L.M. Carpenter / Roy + Alma Purdy

Pl. 135+98.98

136+00 Build Culvert as shown on plans.

+28 Remove 16'-10" C.I.P. and relay as directed.

+36 Remove 15'-8" and relay as directed +50 Build Culvert as shown on plans.

Pl. 145+02.72

PC. 149+48.01
Δ 28°-39'
D 14°
T 104.51
L 204.64
E 13.13

PT. 151+52.74

Pl. 157+06.39

157+50 Build Culvert as shown on plan.

Pl. 157+06.39
32.94
11.34
34.24
Nail in Sycamore
Nail in 5" Ash.
Nail in 6" Ash

BM. Elev 819.64
2 Spikes in quaking Aspen
Lt. Sta 127+40

BM. Elev 817.11
2 Spikes in R. Oak
Lt. Sta 135+90

BM. Elev. 823.60
2 Spikes in poplar
Lt Sta 144+02

BM. Elev. 809.32
II on S.E. Cor. E. Headwall
Sta. 150+75

BM. Elev. 793.00
2 Spikes in Ash.
Rt. Sta. 156+70

814.00 814.23 814.30 814.37 814.44 814.51 814.58 814.65 814.72 814.79 814.86 814.93 814.90 814.67 Pl 815.07 814.24 813.62 812.88 812.17 811.43 810.87 810.66 Pl 809.98 810.76 811.24 811.87 812.50 813.13 813.76 814.31 814.77 Pl. 815.02 815.07 815.27 815.39 815.52 815.64 815.77 815.90 816.02 Pl 816.02 816.37 816.72 817.07 817.42 817.77 818.12 818.47 818.55 818.08 817.06 Pl 819.52 815.51 813.40 809.66 808.11 806.08 Pl 804.90 804.62 803.76 803.19 802.62 802.05 801.48 800.91 800.34 799.77 799.20 798.83 798.86 799.27 Pl. 797.49

820
810
800
790

+0.14
-1.45
+1.26
+0.25
+0.70
-1.14

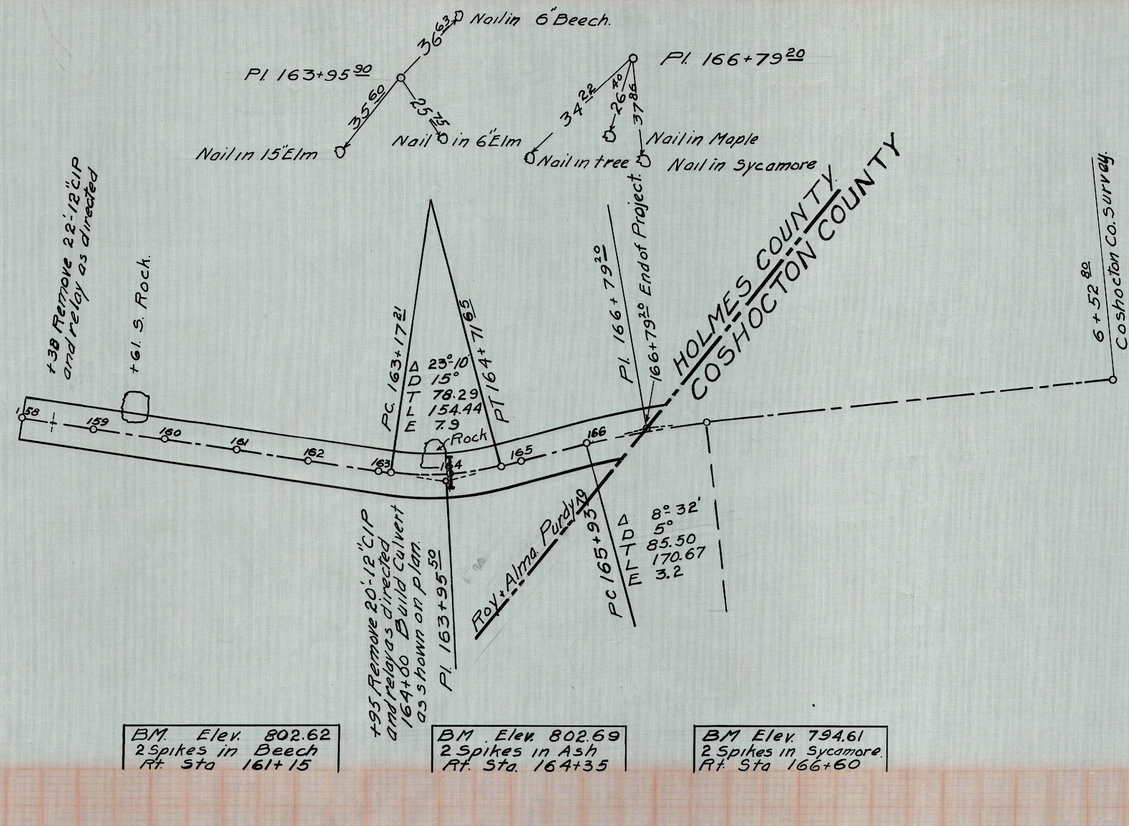
PT. 126+50
PC. 131+50
VC 200
PT. 133+50
PC. 135+00
VC 200
PT 137+00
PC 139+00
V.C. 200
PT 141+00
PC 147+50
VC 300
P.C.C. 150+50
VC 200
PT 152+50
PC 155+50
VC. 300

8.5.1 813.6 814.0 814.3 814.3 814.9 813.5 814.0 813.4 813.2 812.9 813.5 814.3 815.2 813.0 812.1 811.5 811.3 811.6 811.3 810.7 810.9 811.4 812.0 812.0 812.9 814.0 814.5 815.3 815.5 815.8 815.3 814.7 814.3 814.2 814.5 815.1 815.5 816.1 816.2 816.7 817.5 817.3 817.0 815.3 813.0 810.6 809.4 808.8 808.2 806.1 804.1 802.1 801.1 800.3 799 799.9 799.9 798.8 797.9 798.0 798.7 798.8

Exc. Emb.+10% — 480 Cu Yds. / 484 " "
Exc. Emb. +15% — 685 Cu Yds. / 681 " "
Exc. Emb +15% — 508 Cu. Yds. / 500 " "
Exc. Emb.+15% — 588 Cu. Yds. / 601 " "
Exc. Emb + 15% — 925 Cu Yds. / 925 " "
Exc. Emb+15% — 1233 Cu Yds. / 1246 " "

126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158

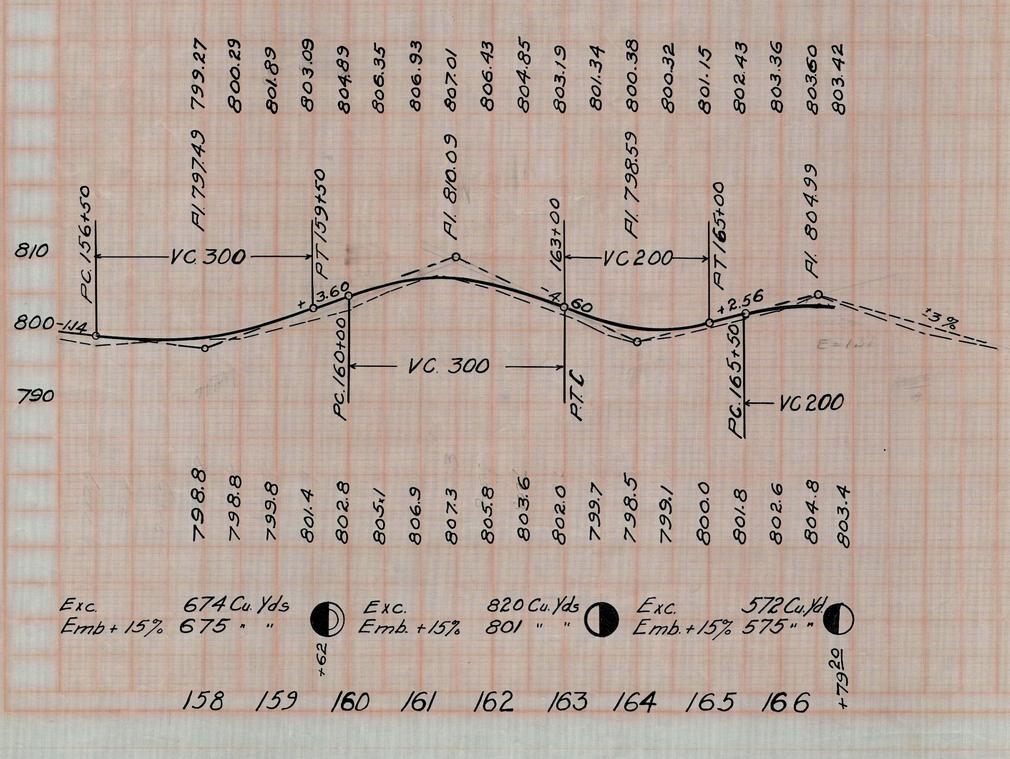
SEC A
KILLBUCK-COSHOCTON
KILLBUCK TWP
7
30



BM Elev. 802.62
2 Spikes in Beech
Rt. Sta 161+15

BM Elev. 802.69
2 Spikes in Ash
Rt. Sta 164+35

BM Elev. 794.61
2 Spikes in Sycamore.
Rt. Sta 166+60



Exc. 674 Cu. Yds
Emb + 15% 675 " "

Exc. 820 Cu. Yds
Emb. +15% 801 " "

Exc. 572 Cu. Yd
Emb. +15% 575 " "

+62

+7920

158 159 160 161 162 163 164 165 166

End Area C	End Area F	Cu. Yd. C.	Cu. Yd. F
		0	248
0	76		
		0	202
0	33		
		0	12
0	32		
		Bridge	
0	36		
		0	179
0	88		
		0	372
0	113		
		0	380
0	92		
		83	207
45	20		
		130	46
25	5		
		93	9
25	0		

306 Cu. Yds.
301 " "

Exc. Emb. + 15%

℄

806.32
7+00
804.3

807.06
6+00
806.7

5+90
807.0

5+73.5
807.5

5+00
805.8

4+00
805.6

3+00
806.6

2+00
809.9

1+00
811.2

0+00
812.0

30 20 10 ℄ 10 20 30

End Area C.	End Area F	Cu. Yd. C.	Cu. Yd. F.
15	4		
		257	6
200	0		
		309	0
305	0		
		611	0
355	0		
		602	0
235	0		
		454	0
195	0		
		217	6
40	6		
		17	9
6	19		
		9	114
0	58		

1723 Cu. Yds.
1750 " "

Exc. Emb + 15%

℄

806.54
12+00
807.1

805.73
11+33
812.3

805.32
11+00
812.2

804.83
10+50
811.1

804.59
10+00
810.7

804.59
9+50
809.9

804.84
9+00
804.8

805.03
8+80
803.9

805.58
8+00
804.2

30 20 10 ℄ 10 20 30

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP

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30

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK-TWP.
9/30

End Area C	End Area F	Cu. Yds C	Cu. Yds F
35	32		
		120	120
30	33		
		56	52
30	23		
		40	35
13	15		
		41	46
9	10		
		13	25
5	17		
		5	46
0	33		
		0	228
0	88		
		0	304
0	76		
		28	141

Exc. Emb + 15% 781 Cu Yds. " "

30 20 10 ℄ 10 20 30

822.66
19+00
822.2

817.00
18+00
815.1

814.85
17+50
812.9

813.24
17+00
812.1

811.42
16+00
810.8

810.81
15+50
810.4

810.20
15+00
810.00

808.98
14+00
807.5

807.76
13+00
806.0

30 20 10 ℄ 10 20 30

End Area C	End Area F	Cu. Yds C	Cu. Yds F
97	94		
		309	276
70	55		
		296	148
91	25		
		259	144
50	53		
		185	161
50	37		
		69	71
25	39		
		66	90
46	58		
		106	103
69	53		
		231	135
56	20		
		168	96

Exc. Emb. + 15% 1546 Cu. Yds. " "

20+50

30 20 10 ℄ 10 20

838.46
26+00
838.0

840.36
25+00
840.1

840.52
24+00
840.5

838.92
23+00
838.3

837.45
22+50
836.9

835.76
22+00
835.2

834.07
21+50
833.0

832.34
21+00
831.0

828.09
20+00
827.8

30 20 10 ℄ 10 20 30

End Area C	End Area F	Cu. Yds. C	Cu. Yds. F
53	59		
		112	87
68	35		
		96	28
140	25		
		113	35
105	50		
		194	204
0	60		
		37	117
20	3		
		50	61
7	30		
		96	56
45	0		
		163	28
43	15		
		85	207
3	97		
		185	359

Exc. Emb. + 10% 991 Cu. Yds. 984 " "

30 20 10 ℄ 10 20 30

34+00 — 833.26 / 34+00 / 832.4

833.83 / 33+50 / 833.5

834.04 / 33+25 / 835.4

834.08 / 33+00 / 834.4

833.64 / 32+00 / 833.2

833.06 / 31+00 / 833.2

832.48 / 30+00 / 832.1

831.90 / 29+00 / 833.5

832.38 / 28+00 / 833.6

26+80 — 835.00 / 27+00 / 833.3

30 20 10 ℄ 10 20 30

End Area C	End Area F	Cu. Yds. C	Cu. Yds. F
		120	111
70	35		
		134	60
75	30		
		120	70
55	45		
		183	120
35	85		
		130	352
35	105		
		88	139
60	45		
		93	74
40	35		
		185	139
60	40		
		213	213
55	75		
		276	222
94	45		
		272	193

Exc. Emb. + 15% 1365 Cu. Yds. 1365 " "

39+00

Exc. Emb. + 15% 1127 Cu. Yds. 1127 " "

30 20 10 ℄ 10 20 30

828.52 / 41+50 / 827.8

830.11 / 41+00 / 830.3

831.26 / 40+50 / 830.9

831.97 / 40+00 / 829.7

832.06 / 39+00 / 829.5

831.43 / 38+50 / 830.5

830.58 / 38+00 / 829.8

829.12 / 37+00 / 827.8

829.35 / 36+00 / 827.5

831.27 / 35+00 / 830.6

30 20 10 ℄ 10 20 30

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.

10
30

ORIGINAL SURVEY — DATE — SURVEYED — DRAWN — CHECKED — FINAL SURVEY — DATE — SURVEYED — DRAWN — CHECKED

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
11
30

End Area C.	End Area F.	Cu. Yds. C.	Cu. Yds. F.
		330	20
165	11		
		338	13
200	3		
		342	12
170	10		
		249	28
148	20		
		230	51
100	35		
		167	102
80	75		
		144	156
75	94		
		125	165
60	85		

808.62
45+50
808.3

810.71
45+00
810.1

813.21
44+50
812.2

815.91
44+00
814.9

818.61
43+50
817.5

821.31
43+00
819.0

824.01
42+50
820.9

826.49
42+00
823.8

End Area C.	End Area F.	Cu. Yds. C	Cu. Yds. F
		82	206
84	83		
		212	84
145	8		
		305	7
185	0		
		512	0
368	0		
		604	0
285	0		
		491	0
248	0		
		417	0
204	0		
		366	9
192	10		

803.22
49+50
800.8

803.49
49+00
806.4

803.76
48+50
809.3

804.03
48+00
808.3

804.30
47+50
807.9

804.77
47+00
807.7

805.65
46+50
807.6

806.93
46+00
806.8

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
12
30

End Area C	End Area F	Cu Yds C	Cu Yds F
0	195		
		15	556
8	105		
		35	380
11	100		
		83	283
34	53		
		126	209
34	60		
		106	278
23	90		
		48	522
3	192		
		6	744
0	210		
		0	741
0	190		
		0	312
0	187		
		4	303
5	140		

Exc. Emb. +10% 4589 Cu Yds
4566

802.20
59+00
796.5

799.11
58+00
795.0

799.17
57+00
795.7

799.71
56+00
797.9

800.25
55+00
798.3

800.79
54+00
797.7

801.33
53+00
795.2

801.87
52+00
795.7

802.41
51+00
796.4

802.68
50+50
796.6

802.95
50+00
797.5

End Area C	End Area F	Cu Yds C	Cu Yds F
		330	42
150	28		
		255	57
125	34		
		212	55
104	25		
		143	60
50	40		
		65	88
20	55		
		37	139
20	91		
		40	237
23	165		
		22	301
0	160		
		0	328

Exc. Emb. +10%
2113 Cu Yds
2156 " "

829.47
63+00
828.1

826.35
62+50
824.9

822.60
62+00
821.6

818.85
61+50
818.1

815.10
61+00
814.7

811.35
60+50
811.3

807.68
60+00
802.8

804.61
59+50
799.5

End Area C.	End Area F.	Cu. Yds. C.	Cu. Yds. F.
0	209		
		0	325
0	146		
		0	226
0	98		
		0	165
0	80		
		49	130
53	60		
		237	70
203	16		
		377	15
204	0		
		380	16
206	17		

30 20 10 ℄ 10 20 30

817.70
67+00
812.8

819.89
66+50
816.2

822.72
66+00
820.2

826.20
65+50
823.6

829.37
65+00
827.5

831.30
64+50
830.7

831.94
64+00
832.2

831.35
63+50
830.6

30 20 10 ℄ 10 20

End Area C	End Area F	Cu. Yds. C	Cu. Yds. F
		273	26
138	17		
		196	88
74	78		
		69	285
10	230		
		0	491
0	300		
		0	472
0	210		
		0	417
0	240		
		0	449
0	245		
		0	417

4240 Cu. Yds.
4181 " "

Exc.
Emb. + 15%

30 20 10 ℄ 10 20 30

819.04
70+50
818.1

817.70
70+00
814.0

816.36
69+50
810.2

815.34
69+00
809.2

814.97
68+50
808.9

815.24
68+00
809.1

816.14
67+50
810.4

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP

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SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
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30

End Area C.	End Area F.	Cu. Yds. C	Cu. Yds. F
		450	9
265	0		
		476	0
244	0		
		439	13
225	14		
		383	33
189	22		
		344	30
183	10		
		315	19
157	11		

40 30 20 10 ℄ 10 20

831.66
73+50
832.0

828.80
73+00
828.9

826.13
72+50
825.0

823.84
72+00
822.7

821.92
71+50
821.2

820.38
71+00
820.00

End Area C.	End Area F.	Cu. Yds. C	Cu. Yds. F
		524	11
325	0		
		606	0
330	0		
		569	2
284	2		
		453	9
205	8		
		389	15
215	8		
		404	17
221	10		

40 30 20 10 ℄ 10 20

830.34
76+50
830.5

833.14
76+00
834.3

834.89
75+50
835.8

835.62
75+00
835.4

835.33
74+50
835.2

834.01
74+00
833.6

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
15/30

End Area C	End Area F	Cu. Yd. C	Cu. Yd. F
160	3		
		333	3
200	0		
		373	3
203	3		
		420	5
250	3		
		503	10
293	8		
		494	19
241	12		

40 30 20 10 ℄ 10 20

817 29
79+50
817.0

818 34
79+00
818.1

819 67
78+50
819.8

821.56
78+00
821.6

824.02
77+50
823.6

827.04
77+00
826.4

40 30 20 10 ℄ 10 20

End Area C	End Area F	Cu. Yds C	Cu. Yds F
		323	44
169	18		
		340	20
198	4		
		337	4
166	0		
		323	6
183	6		
		357	9
203	4		
		336	6

40 30 20 10 ℄ 10 20

811.44
82+00
810.1

812.75
81+50
812.6

813.99
81+00
814.1

815.15
80+50
814.9

816.24
80+00
816.0

40 30 20 10 ℄ 10 20

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
16
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End Area		Cu Yds.	
C	F	C	F
		107	176
68	82		
		163	106
108	32		
		200	62
98	35		
		220	46
139	15		
		277	29
160	16		
		268	40
130	27		
		296	53
180	30		

40 30 20 10 ℄ 10 20

806.73
85+50
805.7

806.50
85+00
805.5

806.41
84+50
805.3

806.60
84+00
805.6

807.61
83+50
806.6

808.74
83+00
807.3

810.09
82+50
808.6

End Area		Cu Yds	
C	F	C	F
0	245		
		2	433
2	223		
		2	416
0	226		
		0	402
0	208		
		0	339
0	158		
		0	270
0	133		
		35	253
38	140		
		76	244
44	123		
		90	216
53	110		
		94	202
48	108		

30 10 ℄ 10 30

811.26
90+50
804.2

809.79
90+00
802.8

808.82
89+50
803.4

808.34
89+00
803.5

808.11
88+50
803.6

807.88
88+00
804.2

807.65
87+50
804.3

807.42
87+00
804.9

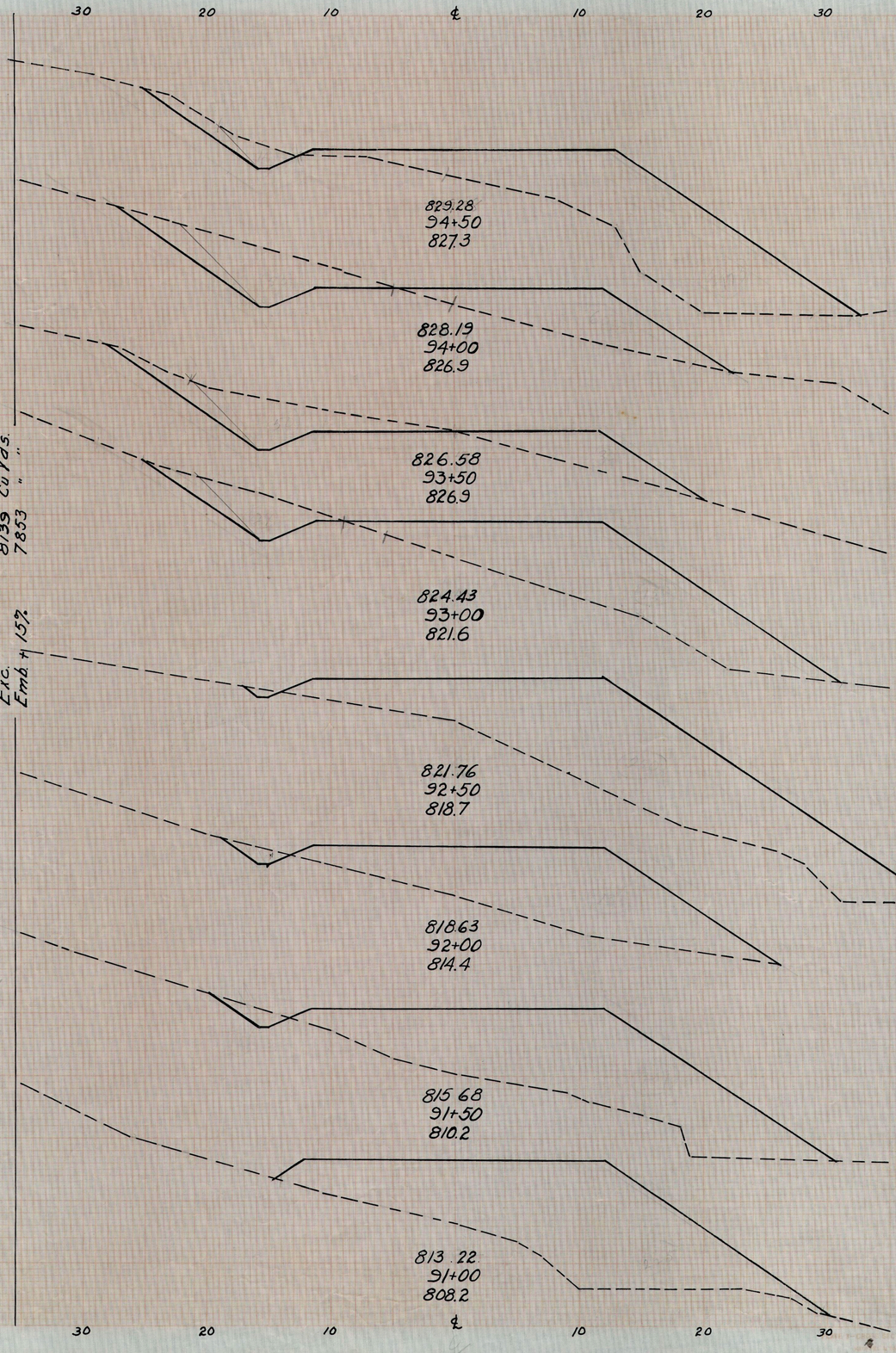
807.19
86+50
805.2

806.96
86+00
805.8

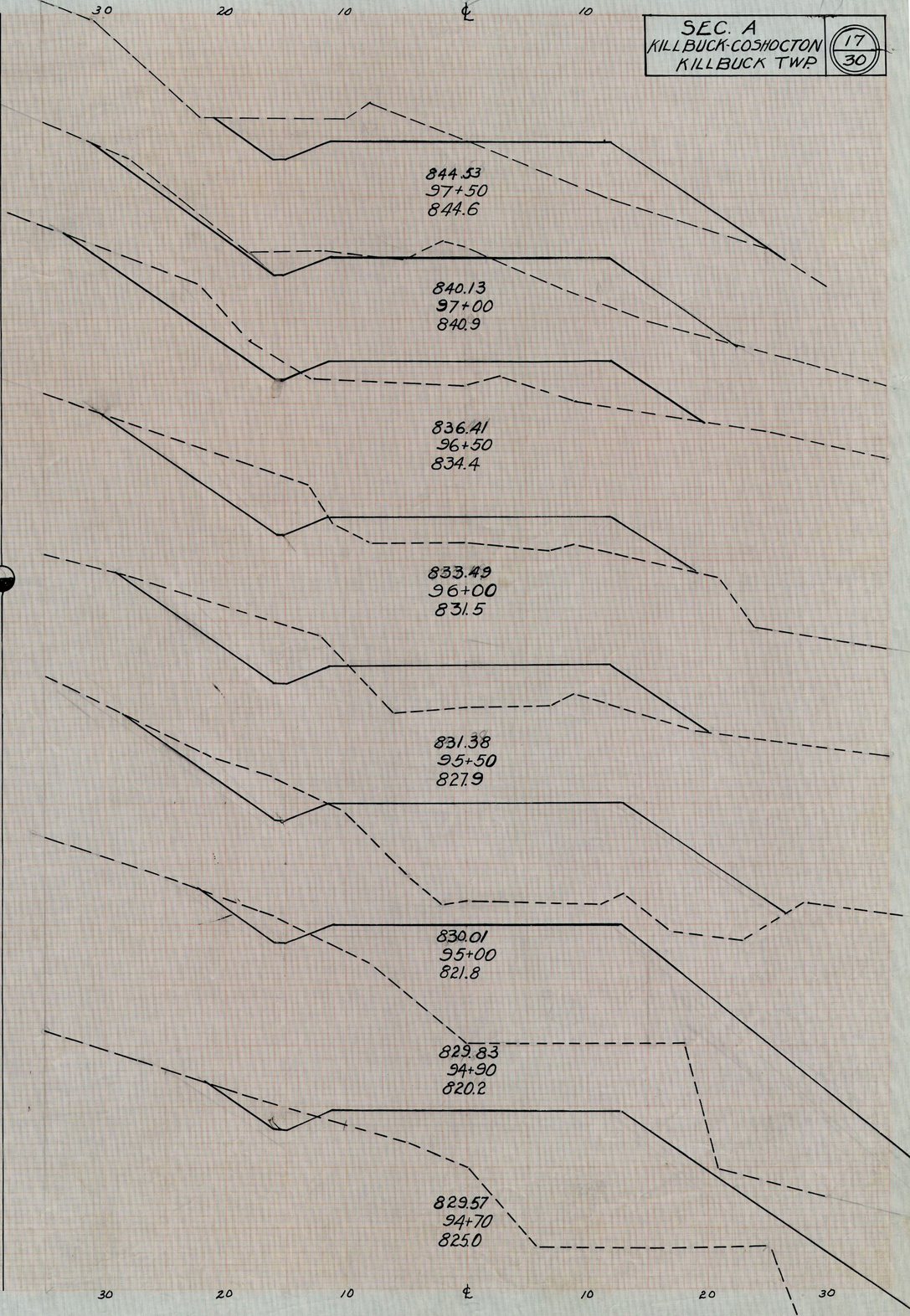
40 30 20 10 ℄ 10 20 30

End Area C.	End Area F.	Cu. Yds. C.	Cu. Yds. F.
		9	181
14	173		
		59	216
50	60		
		93	83
50	30		
		73	167
29	150		
		28	370
1	250		
		4	373
3	153		
		7	335
4	209		
		4	402
0	225		
		0	435

8139 Cu Yds.
7853 " "
Exc.
Emb. +1572



End Area C	End Area F	Cu Yds C	Cu Yds F
		97	106
43	60		
		63	99
25	47		
		62	109
42	71		
		93	124
58	63		
		103	137
53	85		
		77	306
30	245		
		7	123
10	419		
		7	272
10	315		



SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.

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SEC. A.
KILLBUCK-COSHOCTON
KILLBUCK TWP.
18
30

End Area C.	End Area F.	Cu Yds. C.	Cu Yds. F.
		138	137
78	82		
		148	108
82	34		
		132	77
61	49		
		96	113
43	73		
		86	132
50	68		
		102	97
60	37		
		142	101
93	72 ~~97~~		
		143	116
62	54		

1617 Cu Yds. "
1619 " "

Exc. Emb. + 15%

30 20 10 ℄ 10 20 30

871.62
101+50
871.4

870.33
101+00
871.3

868.33
100+50
868.7

865.61
100+00
865.2

862.18
99+50
862.7

858.03
99+00
858.4

853.53
854.6
98+50

849.03
98+00
849.0

End Area C.	End Area F.	Cu Yds. C.	Cu Yds. F.
0	290		
		9	449
10	195		
		78	264
74	90		
		189	114
130	33		
		278	39
170	9		
		315	19
170	12		
		317	20
173	10		
		270	35
119	28		
		176	87
71	66		

1317 Cu Yds.
1318 " "

Exc. Emb. + 15%

103+00

30 20 10 ℄ 10 20 30

860.26
106+00
852.9

860.64
105+50
856.0

862.00
105+00
861.6

864.28
104+50
865.4

867.03
104+00
869.4

869.42
103+50
871.9

871.09
103+00
873.7

871.98
102+50
873.5

872.19
102+00
871.5

30 20 10 ℄ 10 20 30

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
19
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End Area C	End Area F	Cu Yds C	Cu Yds F.
200	0		
		301	0
125	0		
		167	0
55	0		
		54	32
3	35		
		6	168
0	55		
		56	102
30	0		
		139	0
45	0		
		222	2
75	1		
		70	131
0	140		
		0	398

714 Cu. Yds.
721 " "

E. & C. Emb. + 15%

862.52
112+50
867.9

867.13
112+00
870.6

870.76
111+50
872.4

873.32
111+00
872.0

875.28
110+00
873.3

873.08
109+00
873.9

867.57
108+00
868.1

862.27
107+00
863.8

860.78
106+50
856.8

End Area C	End Area F	Cu Yds C	Cu Yds F
70	23		
		78	197
14	190		
		59	320
50	155		
		96	273
53	140		
		98	237
53	116		
		197	135
160	30		
		364	28
233	0		
		380	0
208	0		
		378	0

Exc. 2322 Cu. Yds.
Emb + 15% 2792 " "

818.52
116+50
818.6

824.02
116+00
819.5

829.52
115+50
827.0

835.02
115+00
833.0

840.52
114+50
838.6

846.02
114+00
847.6

851.52
113+50
856.0

857.02
113+00
861.5

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
20
30

End Area C	End Area F	Cu Yds C	Cu Yds F
0	158		
		0	250
0	112		
		0	356
0	80		
		0	162
0	95		
Bridge:			
0	75		
		0	56
0	75		
		0	339
0	108		
		0	253
0	165		
		0	322
0	183		
		14	208
15	42		
		153	39
150	0		
		204	21

30 20 10 ℄ 10 20 30

804.27
122+50
798.8

803 02
122+00
799.3

802.02
121+00
799.1

802.02
120+50
798.4

802. 02
120+19
799.3

120+20

802.02
120+00
799.3

802.47
119+00
798.8

803.84
118+50
798.7

806.14
118+00
800.3

809.34
117+50
8083

813.47
117+00
816.5

30 20 10 ℄ 10 20 30

End Area C	End Area F	Cu Yds C	Cu Yds F
29	35		
		133	102
43	20		
		117	52
21	8		
		72	46
18	17		
		52	74
10	30		
		150	65
71	5		
		419	9
155	0		
		315	0
185	0		
		264	3
105	3		
		134	29
40	28		
		51	92
15	71		
		14	212

480. Cu. Yds. Exc.
484 " " Emb + 10%

127+00

1347 Cu. Yds. Exc.
1355 " " Emb + 15%

30 20 10 ℄ 10 20 30

814 86
131+00
813.2

814.72
130+00
814.0

814 58
129+00
814.9

814.44
128+00
814.3

814 30
127+00
813.6

814.00
126+00
815.2

812.57
125+00
816.0

811. 37
124+50
814.6

809.86
124+00
811.4

808 02
123+50
808.1

806.02
123+00
805.1

30 20 10 ℄ 10 20 30

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
21/30

End Area C.	End Area F.	Cu. Yds. C.	Cu. Yds. F.
24	21		
		45	43
25	25		
		69	41
50	19		
		100	32
58	15		
		89	34
38	22		
		69	39
36	20		
		62	49
31	33		
		47	72
20	45		
		117	152
43	37		
		132	174
28	57		
		106	170

685 Cu Yds.
681 " "
Exc. Emb + 15%

30 20 10 ℄ 10 20 30

811.87
137+50
811.4

811.24
137+00
810.9

137+00

810.76
136+50
810.7

810.66
136+00
811.3

810.87
135+50
811.6

811.43
135+00
811.3

812 17
134+50
811.5

812 88
134+00
812.1

814 24
133+00
815.2

814 90
132+00
813.5

30 20 10 ℄ 10 20 30

End Area C.	End Area F.	Cu. Yd. C.	Cu. Yd. F.
		88	76
55	42		
		111	69
65	32		
		106	67
49	40		
		82	77
40	43		
		71	91
37	55		
		130	148
33	25		
		119	74
31	15		
		104	57
25	16		
		104	81
31	28		
		95	124
20	39		
		41	56

588 Cu. Yds. 601
Exc. Emb + 15%

508 Cu Yds 500 " "
Exc. Emb + 15%

145+50

142+00

816 72
145+00
815.5

816.37
144+50
815.1

816.02
144+00
814.5

815.90
143+50
814.2

815.77
143+00
814.3

815.52
142+00
815.3

815.27
141+00
815.5

814.77
140+00
814.5

813.76
139+00
812.9

812.50
138+00
812.0

30 20 10 ℄ 10 20 30

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
22/30

End Area C.	End Area F.	Cu Yds. C.	Cu Yds. F.
0	30		
		0	102
0	80		
		40	130
43	60		
		101	83
66	30		
		140	44
85	18		
		106	56
29	42		
		156	130
55	28		
		74	63
25	40		
		47	82
26	49		
		61	82
40	40		

925 Cu. Yds. "
925 "

Exc. Emb + 15%

30 20 10 ℄ 10 20 30

809.66
150+50
809.4

813.40
150+00
810.6

815.51
149+50
813.0

817.06
149+00
815.3

818.08
148+50
817.0

818.55
148+00
817.3

818.12
147+00
817.5

817.77
146+50
816.7

817.42
146+00
816.2

817.07
145+50
816.1

30 20 10 ℄ 10 20 30

End Area C	End Area F	Cu Yds C	Cu Yds F
63	23		
		174	35
125	14		
		162	53
50	43		
		91	94
48	59		
		126	281
20	93		
		89	339
28	90		
		122	268
38	55		
		419	102
188	0		
		359	0
200	0		
		206	2
23	2		
		21	30

156+50

1233 Cu. Yds. "
1246 " "

151+50

Exc. Emb + 15%

30 20 10 ℄ 10 20 30

798.86
157+50
798.7

798.83
157+00
798.0

799.20
156+50
797.9

799.77
156+00
798.8

800.91
155+00
799.9

802.05
154+00
800.3

803.19
153+00
802.1

804.62
152+00
806.1

806.08
151+50
808.2

808.11
151+00
808.8

30 20 10 ℄ 10 20 30

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
23
30

End Area C.	End Area F.	Cu. Yds. C.	Cu. Yds. F.
46	28		
		143	117
31	35		
		165	124
58	32		
		226	119
64	32		
		150	217
17	85		
		93	315
33	85		
		169	241
58	45		
		112	63

30 20 10 ℄ 10 20 30

800.38
164+00
798.5

Rock to high

801.34
163+50
799.7

813.19
163+00
802.0

Exc. 720 + 100 for rock = 820 Cu Yds
Emb + 15% 801.4

806.43
162+00
805.8

806.93
161+00
806.9

159+62

804.89
160+00
802.8

801.89
159+00
799.8

674 Cu. Yds.
675 " "

Exc.
Emb + 15%

799.27
158+00
798.8

30 20 10 ℄ 10 20 30

End Area C	End Area F	Cu. Yds C	Cu. Yds F
82	47		
		226	149
71	55		
		215	204
45	55		
		65	86
25	38		
		66	61

572 Cu. Yds
575 " "

Exc.
Emb + 15%

℄

803.42
166+79.20
803.4

803.36
166+00
802.6

801.15
165+00
800.0

800.32
164+50
799.1

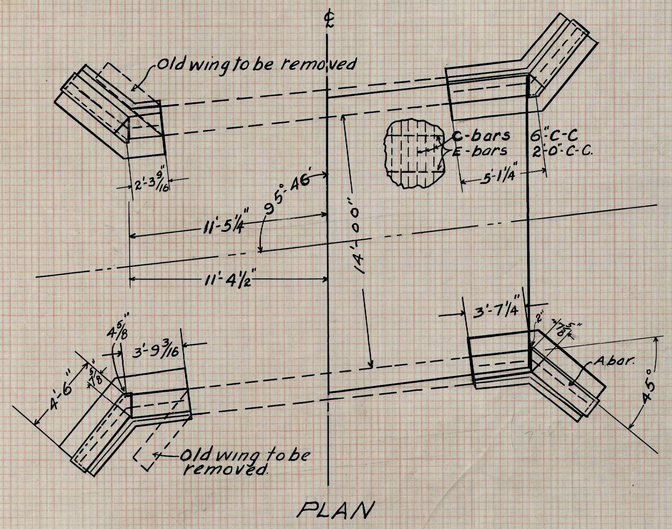
30 20 15 10 ℄ 10 15 20 30 30

ORIGINAL SURVEY — SURVEYED / PLOTTED / TRIPLETT / JONES / NOTE BOOK / PAGE / CHECKED / DATE / BY / NO.

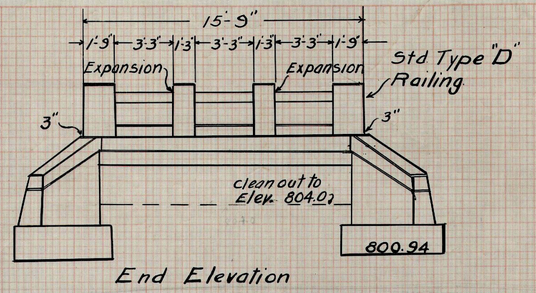
FINAL SURVEY — SURVEYED / PLOTTED / TRIPLETT / JONES / NOTE BOOK / PAGE / CHECKED / DATE / BY / NO.

PLATE 2—CROSS SECTION O. P. R. & R. E. STANDARD
KELLOGG & ESSER CO., NEW YORK.

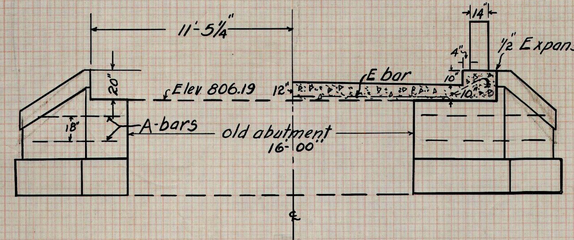
SEC. A
KILLBUCK-COSHOCTON
KILLBUCK-TWP.
24/30



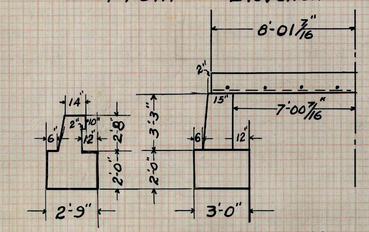
PLAN



End Elevation



Front Elevation



End of Wing.

Half Section on ℄

Extension of Slab Bridge Sta. 5+85

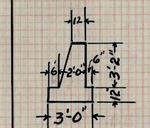
Extension of abutments left and right and entire new slab and rail.

STEEL LIST

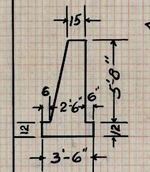
No	Mark	Size	Length	Place	Spacing
8	E	½"□	24'-0"	Slab	2'-0"
46	C	¾"□	16-0"	"	0'-6"
4	A	"	7-6	Wing.	1'-6"
2	A	"	6-0	"	1'-6"
2	A	"	9-0	"	1'-6"
32	Y	½"ϕ	4'-0"	Posts	
16	X	" "	5'-0"	End Panel	
4	X	" "	15'-8"	Lower Rail	
8	X	" "	5'-0	Mid Panel.	

ESTIMATE OF QUANTITIES

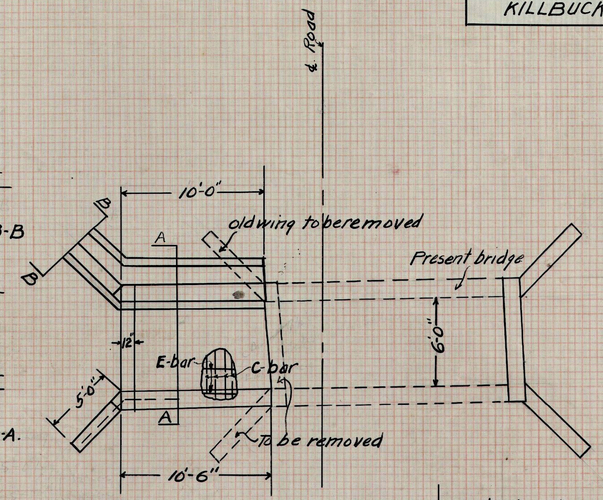
Exc. and refill	16 Cu Yds.
Concrete 1:2½:4	13.1 " "
" 1:2:3	14.2 " "
Rein. steel	2274 Lbs.
Type D Rail	31'-6"
Expansion joint (premolded	7 sq. ft.

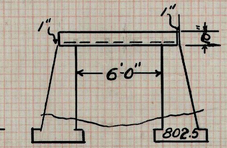


Section B-B



SECTION A-A.

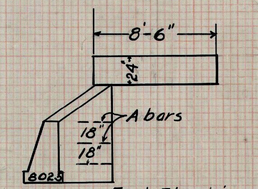




STEEL LIST

4 - E bars ⅝"□ 12'-0" long - 2'-0" c-c.
6 - A " ⅝"□ 8'-0" " 18" c-c
16 - C " ⅝"□ 8'-0" " 7½" c-c.

Section on ℄



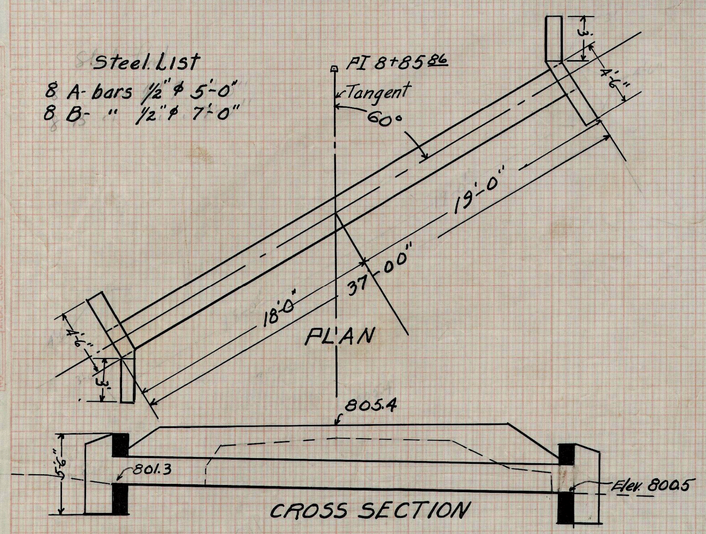
End Elevation

Estimate of Quantities

Exc. and Refill	16 Cu. Yds.
Concrete 1:2½:4	15.7 Cu. Yds.
Concrete 1:2:3.	3.0
Rein. Steel	302 lbs.

Extension Sta. 14+80

Steel List
8 A-bars ½"ϕ 5'-0"
8 B- " ½"ϕ 7'-0"

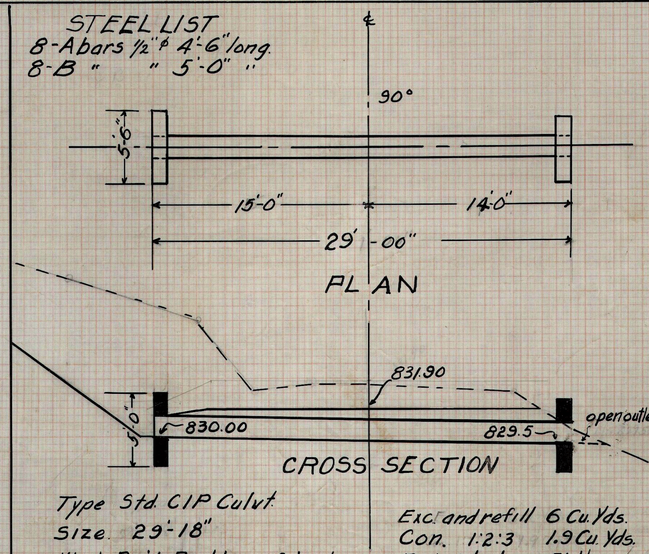


Type Std. C.I.P. Culvert.
Size - 37'-24"
Work Req'd - Remove old pipe
Build new Culvert.

Exc. and Refill 10 Cu. Yds.
Concrete 1:2:3. 2.8 " "
Rein. Steel. 64 lbs.

Sta. 8+33.

STEEL LIST
8-A bars ½"ϕ 4'-6" long.
8-B " " 5'-0" "

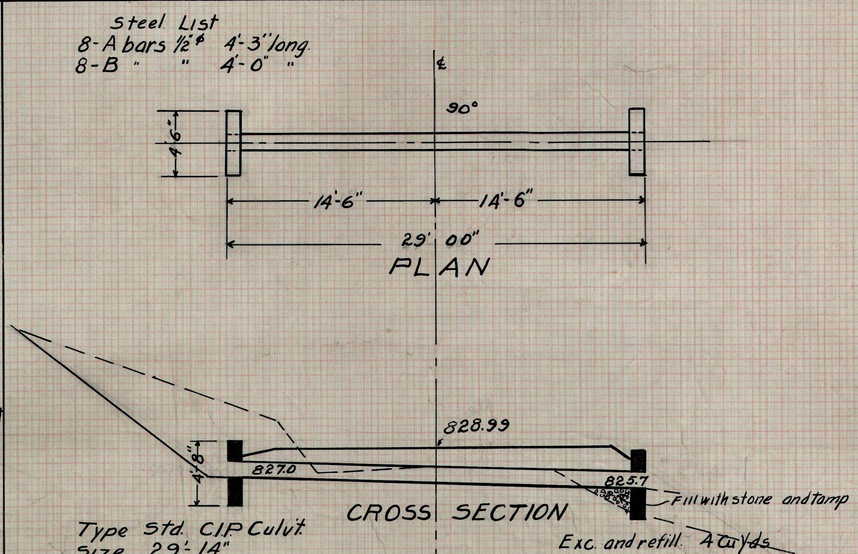


Type Std. C.I.P. Culvt.
Size 29'-18"
Work Req'd. Build new Culvert.

Exc. and refill 6 Cu. Yds.
Con. 1:2:3 1.9 Cu. Yds.
Rein. Steel 51 lbs.

Sta. 29+00

Steel List
8-A bars ½"ϕ 4'-3" long.
8-B " " 4'-0" "



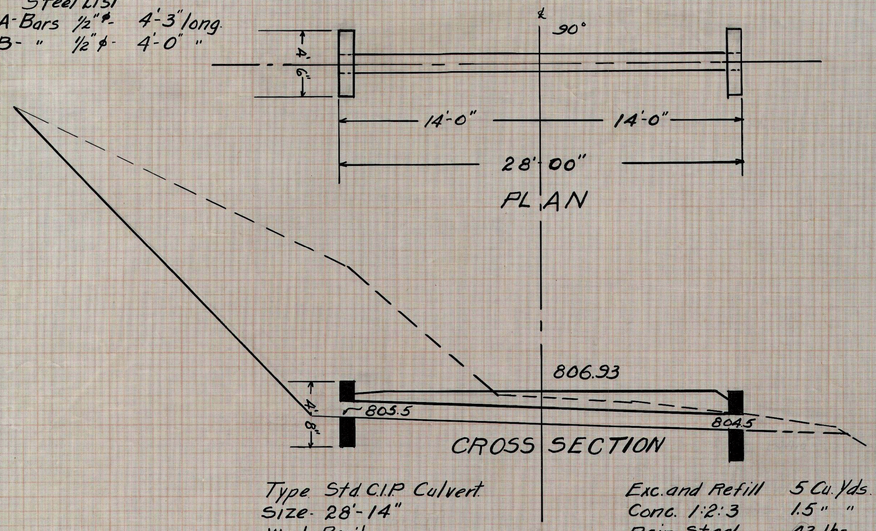
Type Std. C.I.P. Culvt.
Size 29'-14"
Work Req'd New Culvert.

Exc. and refill. 4 Cu. Yds.
Con. 1:2:3 1.5 " "
Reinf. Steel 43 lbs

Sta. 36+50

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
25/30

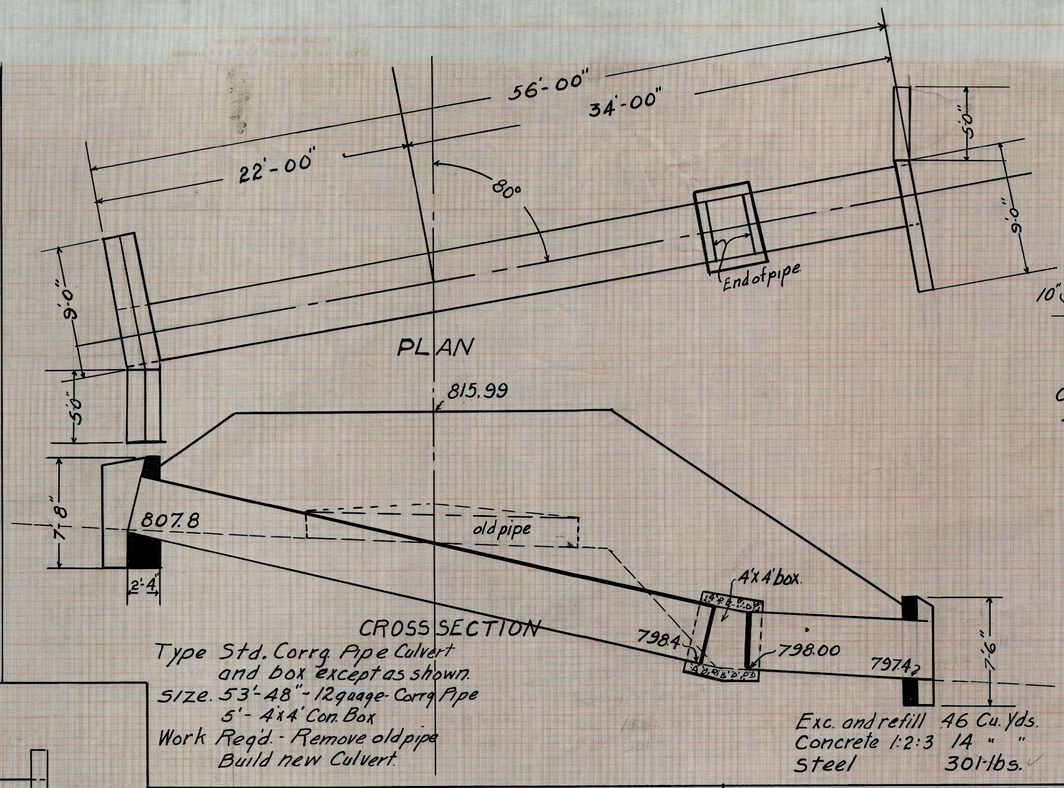
Steel List
8A-Bars ½"ϕ 4'-3" long
8B- " ½"ϕ 4'-0" "



Type Std C.I.P. Culvert
Size- 28'-14"
Work Req'd. Build new Culvert
Remove pipe 46+06

Exc. and Refill 5 Cu. Yds.
Conc. 1:2:3 1.5" "
Rein. Steel 43 lbs.

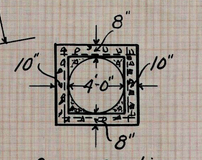
Sta. 46+00



Type Std. Corrg. Pipe Culvert
and box except as shown.
Size. 53'-48"-12 guage-Corrg. Pipe
5'-4'x4' Con. Box
Work Req'd.- Remove old pipe
Build new Culvert.

Exc. and refill 46 Cu. Yds.
Concrete 1:2:3 14 " "
Steel 301 lbs.

Sta. 69+35



Cross-Section
4'x4' Box-5' long.

Steel List for Box
16- E Bars - ½"ϕ 4'-9"
10- CT " ½"□ - 5'-3" - 6" c-c
10 CB " " 5'-3" - 6" c-c
10 D " ½"ϕ 5'-0" 1' c-c

Steel List for Headwalls.
12 - A Bars ½"ϕ 7'-0" long.
8 - B " ½"ϕ 13'-6" "

Type Std C.I.P. Culvert
Size 51'-18"
Work Req'd Build new Culvert.
Remove old pipe.

Exc. and Refill 10 Cu. Yds.
Conc. 1:2:3 1.9 " "
Rein. Steel 51 lbs.

Steel List
8-A bars ½"ϕ 4'-6" long.
8-B " " 5'-0" "

Sta. 67+65

Type Std C.I.P. Culvert
Size 27'-18"
Work Req'd Build new Culvert.

Exc. and Refill 5 Cu. Yds.
Concrete 1:2:3 1.9 " "
Steel 51 lbs.

Steel List.
8 A-bars ½"ϕ 4'-6" long.
8 B " " " 5'-0" "

Sta. 84+50

Type Std C.I.P. Culvert
except as shown.
Size 40'-18" C.I.P.
Work Req'd. New Culvert.

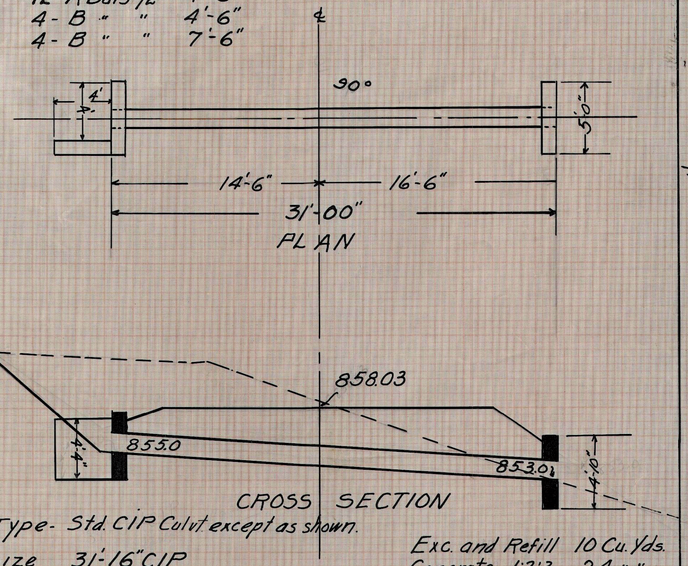
Steel List.
10 A-Bars ½"ϕ 4'-6" long
4 B " " 5'-0" "
4 B " " 7'-6" "

Exc. and refill 5 Cu. Yds.
Concrete 1:2:3 2.8 " "
Steel 63 lbs.

Sta 92+15
subject to change 89+50

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
26/30

12-A Bars ½"ϕ 4'-6"
4-B " " 4'-6"
4-B " " 7'-6"

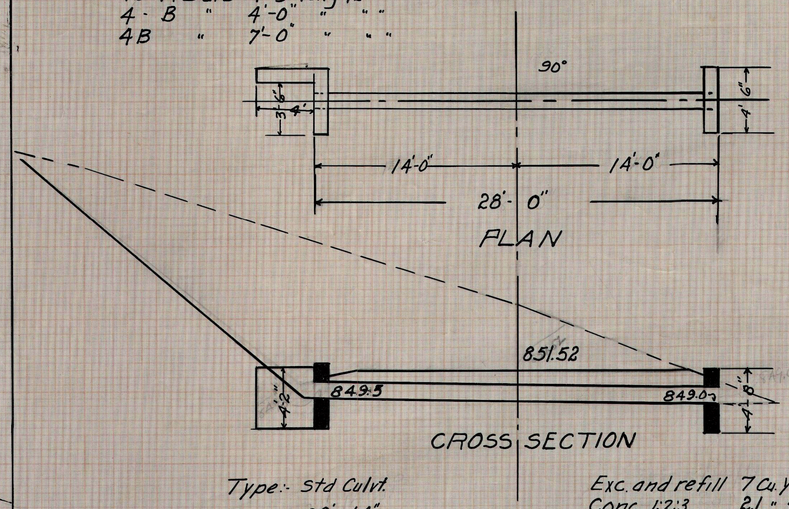


Type- Std. CIP Culvt except as shown.
Size 31'-16" CIP
Work Req'd Build new Culvert.

Exc. and Refill 10 Cu. Yds.
Concrete 1:2:3 2.4 " "
Steel 68#

Sta. 99+00

Steel List
12-A Bars 4'-3" long ½"ϕ
4-B " 4'-0" " " "
4B " 7'-0" " " "

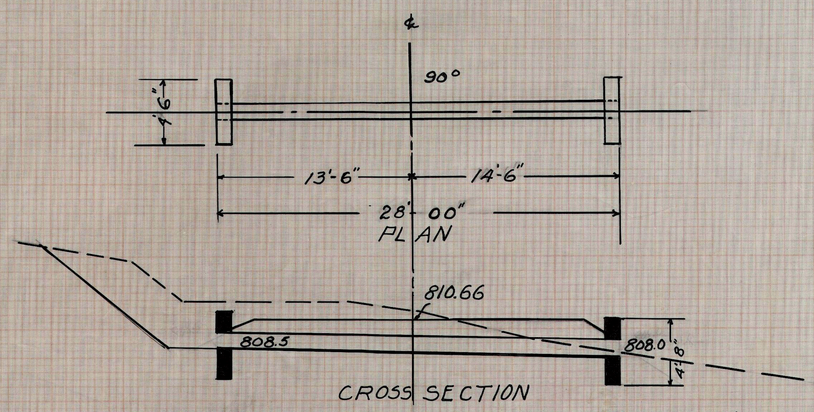


Type:- Std Culvt
Size 28'-14"
Work Req'd New Culvert.

Exc. and refill 7 Cu. Yds.
Conc. 1:2:3. 2.1 " "
Steel. 63#

Sta. 113+50

Steel List
8-A bars ½"ϕ 4'-3" long
8-B " " 4'-0" "

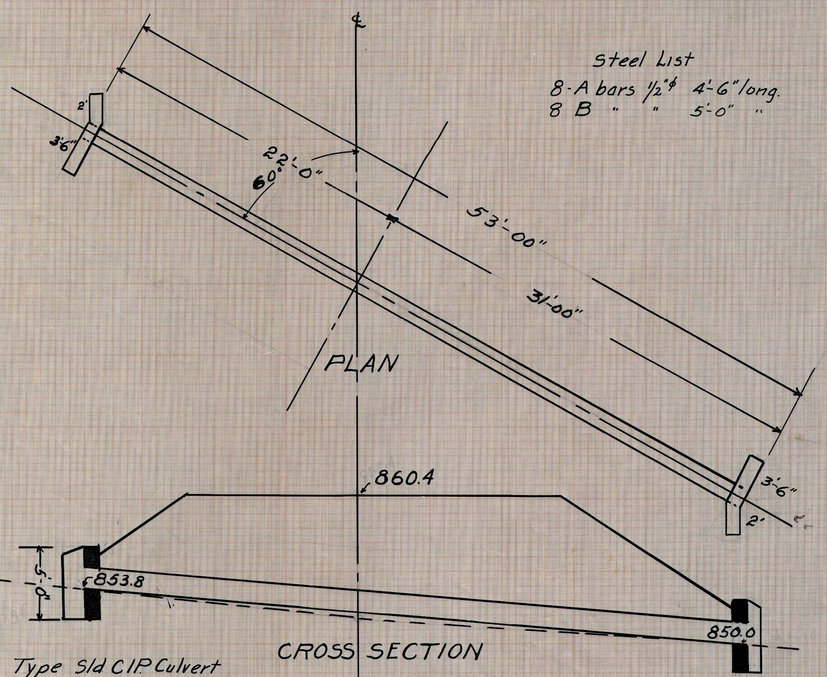


Type Std CIP Culvert
Size 28'-14"
Work Req'd. New Culvert

Exc. + Refill 5 Cu. Yds.
Concrete 1:2:3 1.5 " "
Steel. 43#

Sta. 136+00

Steel List
8-A bars ½"ϕ 4'-6" long.
8 B " " 5'-0" "

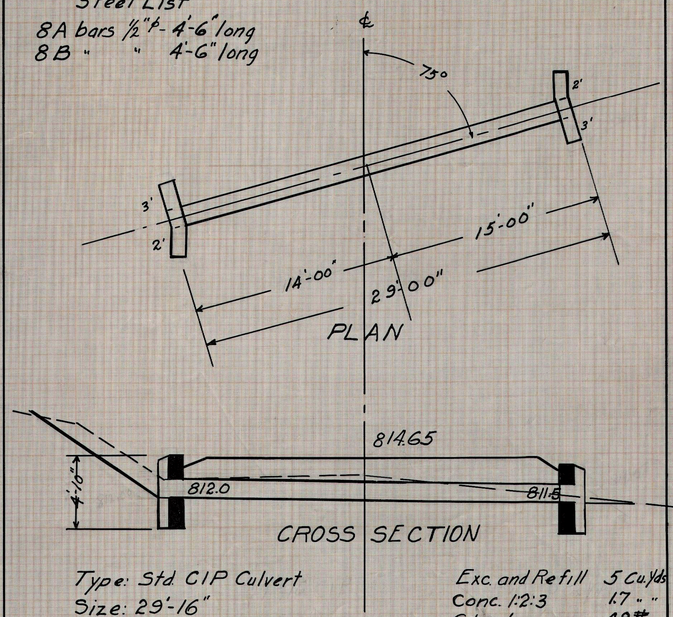


Type Std CIP Culvert
except as shown
Size 53'-18" CIP
Work Req'd. Build new. Culvert.

Exc. and Refill 3 Cu. Yds.
Concrete 1:2:3 1.9 Cu. Yds.
Steel 51#

Sta. 106+17

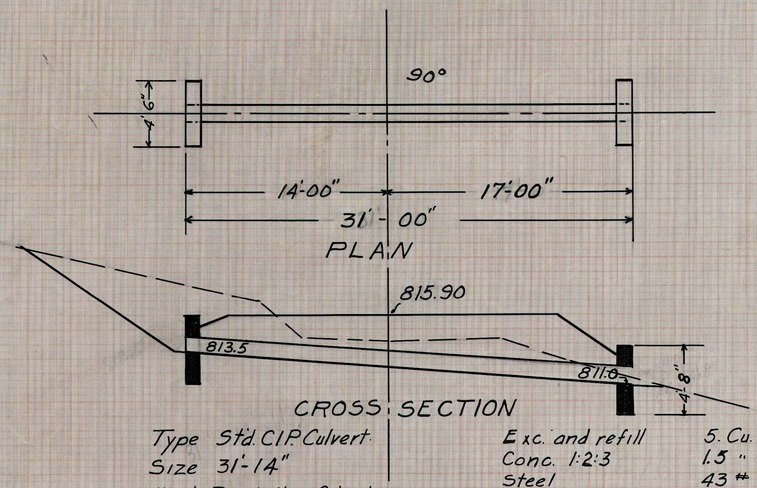
Steel List
8 A bars ½"ϕ- 4'-6" long
8 B " " 4'-6" long



Type: Std CIP Culvert
Size: 29'-16"
Work Req'd. New Culvert.

Exc. and Refill 5 Cu. Yds.
Conc. 1:2:3 1.7 " "
Steel. 48#

Sta. 129+46



Type Std. CIP Culvert
Size 31'-14"
Work Req'd. New Culvert.

Exc. and refill 5. Cu. Yds.
Conc. 1:2:3 1.5 " "
Steel 43#

Steel List
8 A bars. ½"ϕ 4'-3" long
8 B " " 4'-0" "

Sta. 143+50

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
27
30

SUPER STRUCTURE
120+35
Sta.

Steel List
8-A bars - ½" ϕ 4'-6" long.
8 B " " " 5'-0" "

Type Std. CIP Culvert
Size 31'-18"
Work Reqd - Build new Culvert

Exc. and refill 10 Cu. Yds.
Conc. 1:2:3 1.9 " "
Steel 51 #

Sta. 157+50

Type:- Std CIP Culvert
Size - 28'-14"
Work Reqd. Build new Culvert

Exc. and Refill 4 Cu. Yds.
Concrete 1:2:3 1.5 Cu. Yds.
Steel 43 #

Steel List
8-A Bars ½" ϕ 4'-3" long.
8-B " " 4'-0" "

Sta. 164+00

Estimate Quantities

Concrete 1:2:3	34.4 Cu Yds.
Rein. Steel	6796 lbs.
Type D rail	67 Lin Ft.
Expansion joint	24 sq. ft.
Spacers and chairs	

Inside Beams

No	mark	Size	"a"	Total Len	Total Wt.
4	F-1	⅞" ϕ		33'-9"	351
4	F-2	"	26'-0"	32'-0"	333
4	F-3	"		33'-9"	351
4	F-4	"	26'-0"	32'-0"	333
4	F-5	"		33'-9"	351
4	G-1	"	18'-0"	24'-0"	230
4	G-2	"	22'-0"	28'-0"	291
4	G-3	"	14'-0"	20'-0"	208
4	G-4	"	22'-0	28'-0"	291
4	G-5	"	18'-0	24'-0"	230
108	S-2	½" ϕ		6'-6"	469

3478

Slab.

No	mark	Size	Total Length	Total Wt.
33	A	½" ϕ	23'-0"	163
33	B	" "	22'-0"	43
13	C	½" ϕ	33'-9"	119
4	V	½" ϕ	23'-0"	177

1631

Railing Steel

No	mark	Size	Length	Total Wt.
48	V	½" ϕ	4'-0"	163
8	X	"	6'-8"	43
8	X	"	17'-6"	119
16	X	"	13'-0"	177

504

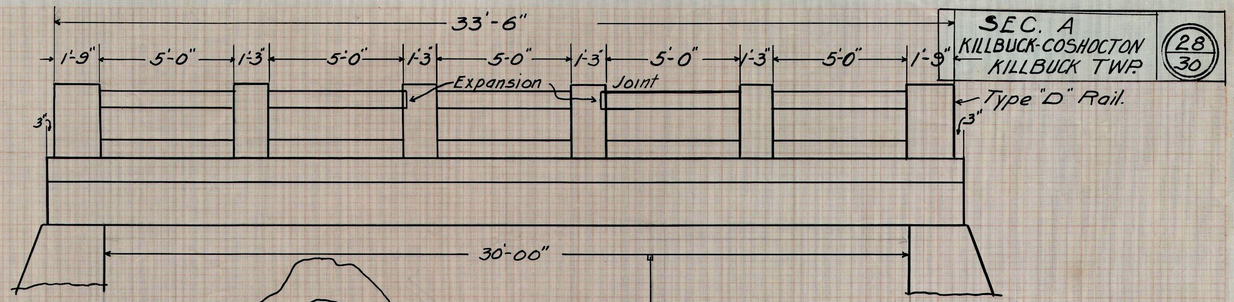
OUTSIDE BEAMS

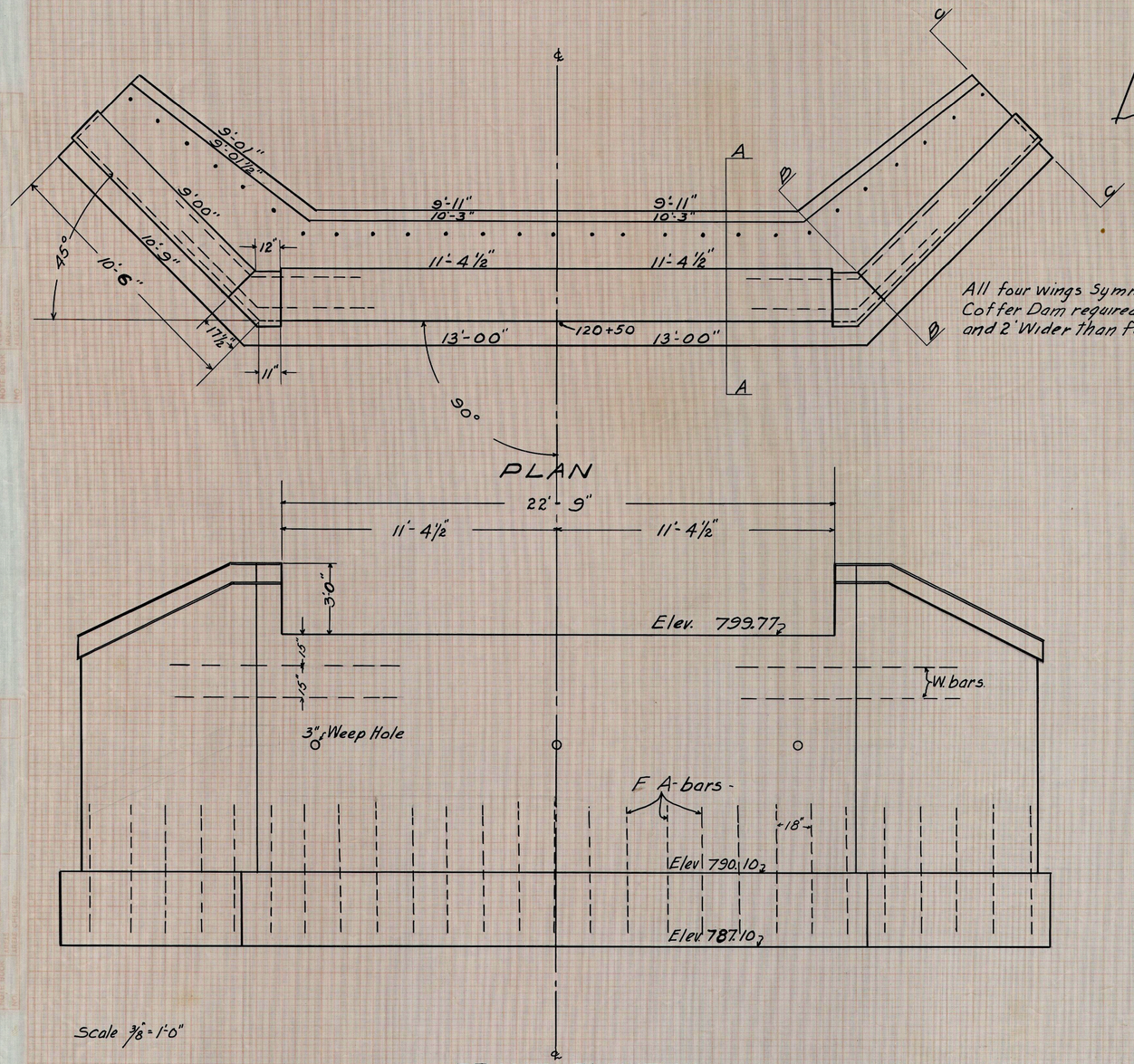
No	mark	Size	"a"	Total Length	Total Wt.
2	D-1	¾" ϕ		33'-9"	128
2	D-2	" "	26'-0"	34'-0"	129
2	D-3	" "		33'-9"	128
2	D-4	" "	26'-0"	34'-0"	129
2	D-5	" "		33'-9"	128
2	E-2	" "	20'-0"	28'-0"	106
2	E-1	" "	14'-0"	22'-0"	84
2	E-5	" "	14'-0"	22'-0"	84
2	E-4	" "	20'-0"	28'-0"	106
34	S1	½" ϕ		6'-4"	145

116

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.

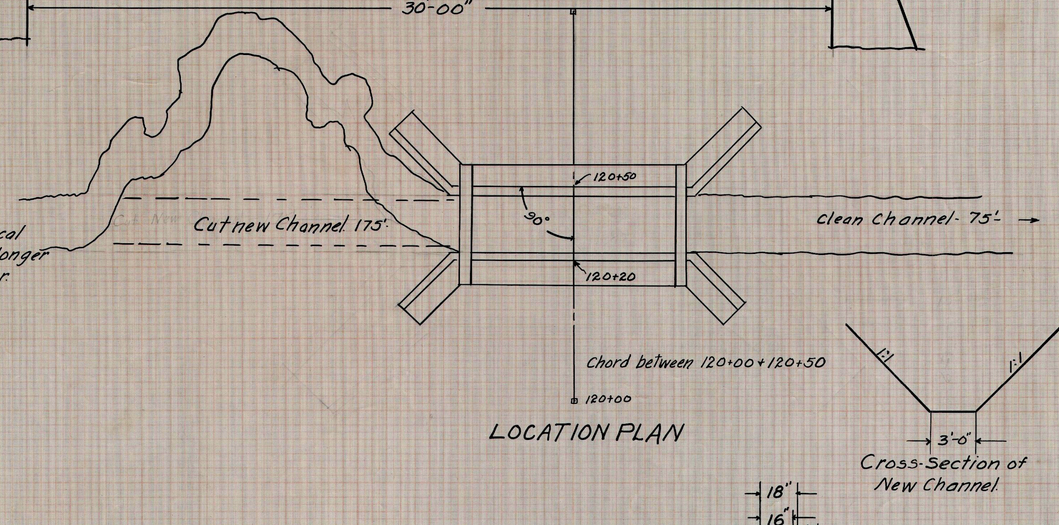
28/30





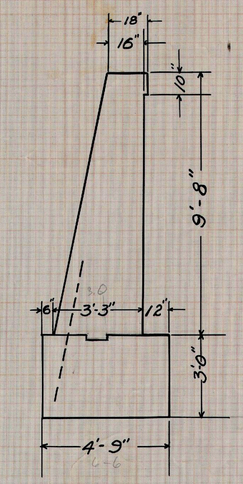
Scale 3/8" = 1'-0"

All four wings Symmetrical
Cofferdam required 2' longer
and 2' Wider than footer

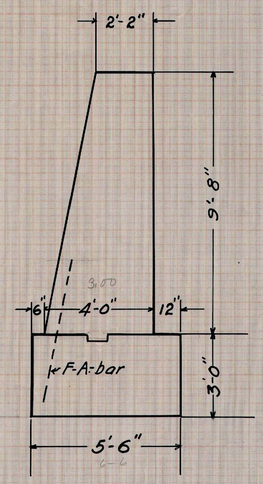


LOCATION PLAN

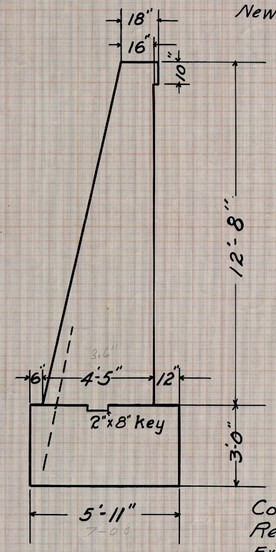
Cross-Section of
New Channel.



SECTION C-C



SECTION A-A



SECTION B-B

STEEL LIST

54 F-A bars 5/8" ϕ 5'-0" long 18" c-c.
16 W-bars 3/4" ϕ 9'-0" " 15" c-c.

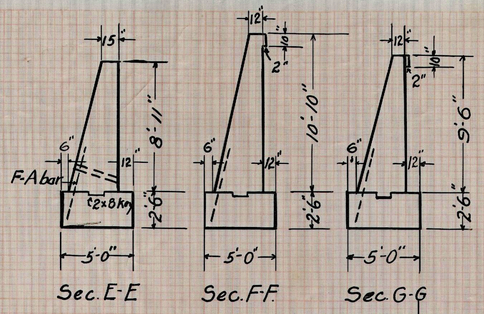
Estimate of Quantities

Concrete 1:2½:4	147.3 Cu.Yds.
Rein. Steel.	498 lbs.
Exc. "Dry"	186 Cu.Yds.
Exc. Wet.	232 " "
Channel Exc. to be placed in Road.	450 " "

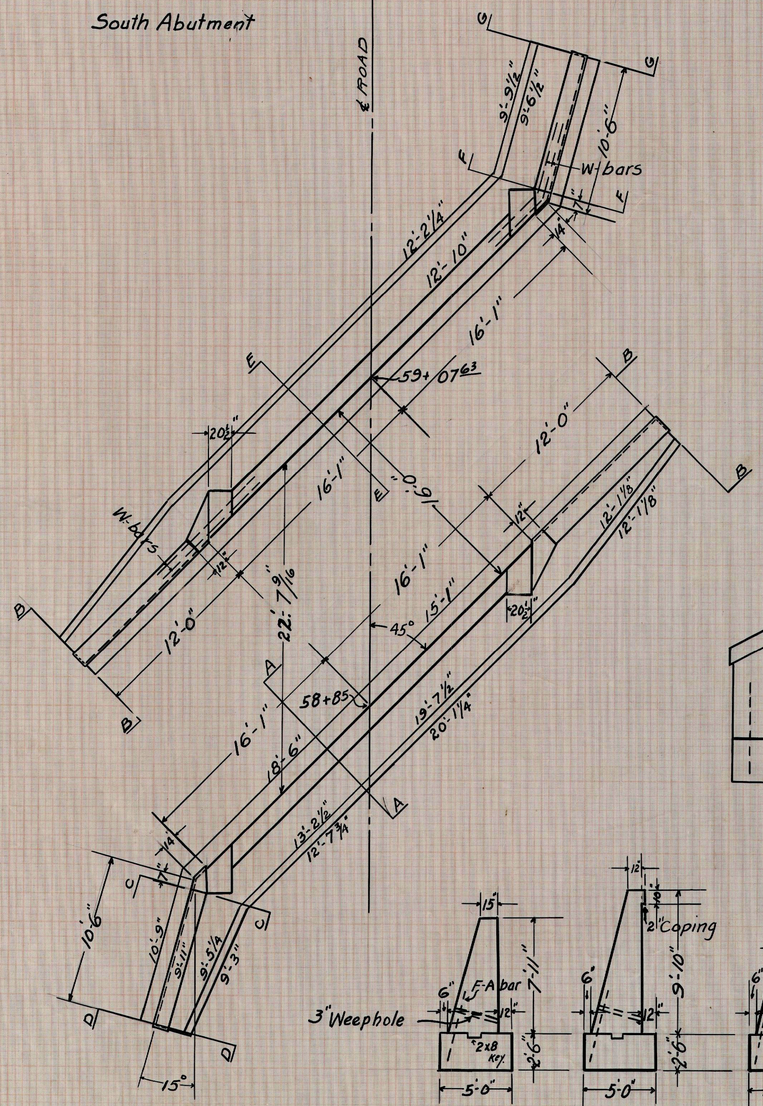
SUB-STRUCTURE
30'-T-BEAM
Sta. 120+35

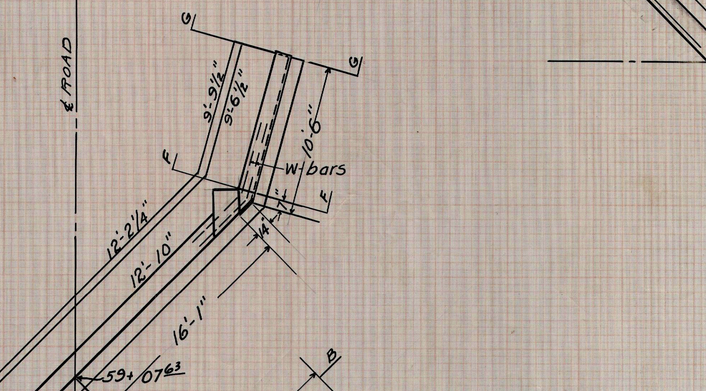
SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.

29
30

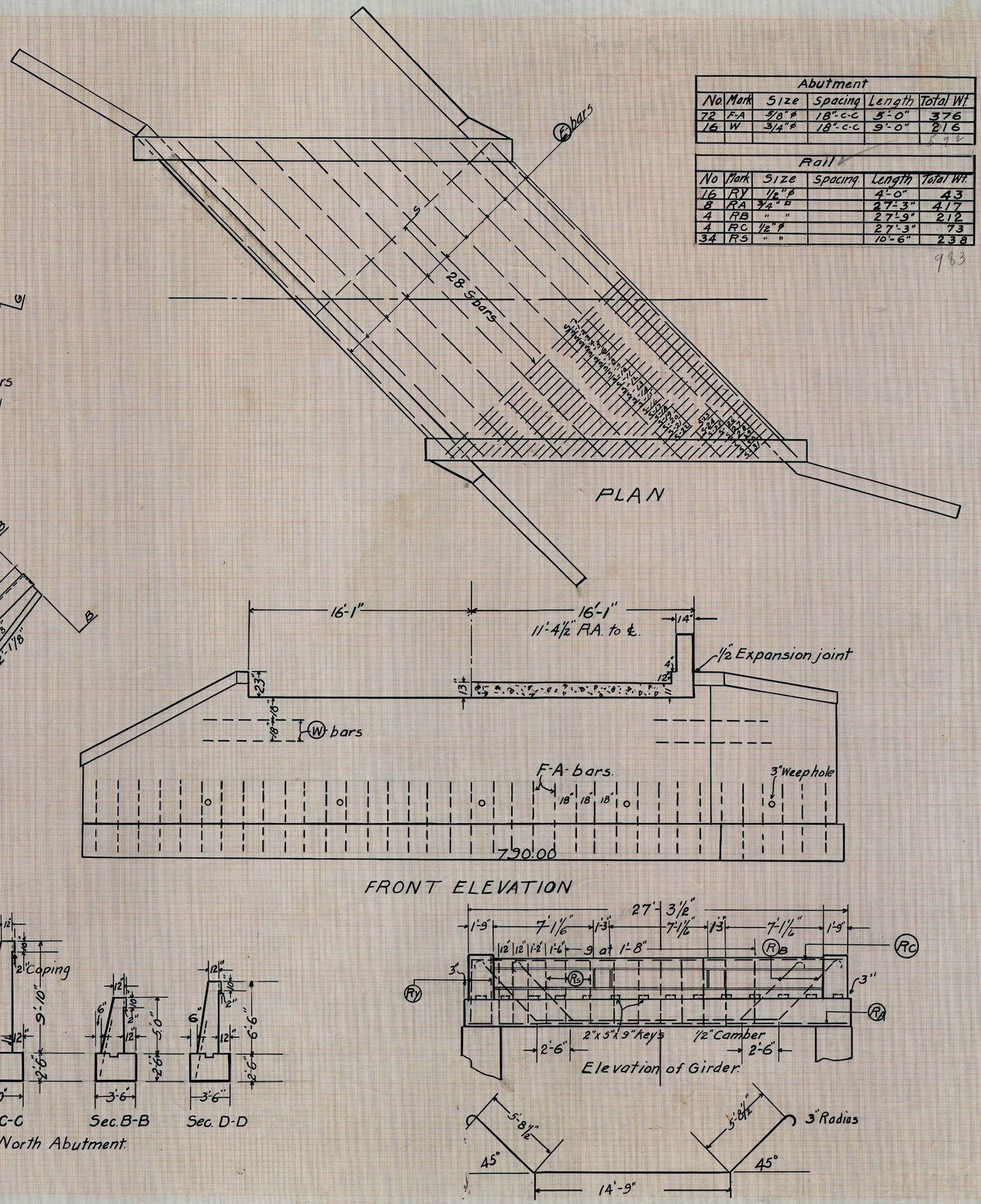


South Abutment





North Abutment



FRONT ELEVATION

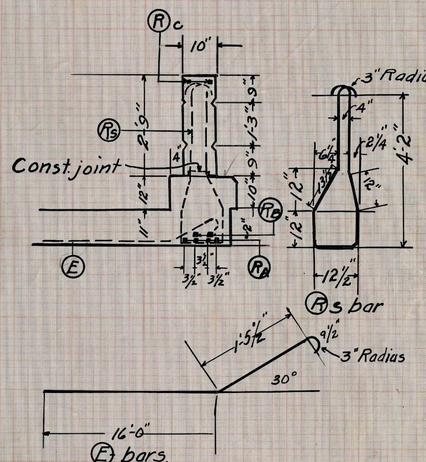
Abutment					
No	Mark	Size	Spacing	Length	Total Wt
72	F-A	5/8" ϕ	18"-c-c	5'-0"	376
16	W	3/4" ϕ	18"-c-c	9'-0"	216
					592

Rail					
No	Mark	Size	Spacing	Length	Total Wt
16	RY	1/2" ϕ		4'-0"	43
8	RA	3/4" □		27'-3"	417
4	RB	" "		27'-9"	212
4	RC	1/2" ϕ		27'-3"	73
34	RS	" "		10'-6"	238

983

Slab					
No	Mark	Size	Spacing	Length	Total Wt
28	S	1" ϕ	6"c-c	18'-0"	1346
2	S-1	"	"	17'-8"	94
2	S-2	"	"	17'-2"	92
2	S-3	"	"	16'-8"	89
2	S-4	"	"	16'-2"	86
2	S-5	"	"	15'-8"	84
2	S-6	"	"	15'-2"	81
2	S-7	"	"	14'-8"	78
2	S-8	"	"	14'-2"	76
2	S-9	"	"	13'-8"	73
2	S-10	"	"	13'-2"	70
2	S-11	"	"	12'-8"	68
2	S-12	"	"	12'-2"	65
2	S-13	"	"	11'-8"	62
2	S-14	"	"	11'-2"	60
2	S-15	"	"	10'-8"	57
2	S-16	"	"	10'-2"	54
2	S-17	"	"	9'-8"	52
2	S-18	"	"	9'-2"	49
2	S-19	"	"	8'-8"	46
2	S-20	"	"	8'-2"	44
2	S-21	"	"	7'-8"	41
2	S-22	"	"	7'-2"	38
2	S-23	"	"	6'-8"	36
2	S-24	"	"	6'-2"	33
2	S-25	"	"	5'-8"	30
2	S-26	"	"	5'-2"	28
2	S-27	"	"	4'-8"	25
2	S-28	"	"	4'-2"	22
2	S-29	"	"	3'-8"	20
2	S-30	"	"	3'-2"	17
2	S-31	"	"	2'-8"	14
20	E	1/2" ϕ	2'-0"	18'-3"	244

327A



Estimate of Quantities

Substructure.

Exc. and refill (Dry)	90 Cu. Yds.
" " Wet	112 " "
Concrete 1:2½:4	127.7 " "
Rein. Steel	592 - lbs.
Channel Excavation	150 Cu Yds.

Super structure.

Concrete 1:2:3	31 Cu Yds.
Reinf. Steel	4221 - lbs.
Expansion joint	20 Sq. ft.
Spacers + Chairs.	

57

Slab Bridge Sta 59+85

SEC A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
30/30

SUMMARY OF QUANTITIES

ROADWAY

ITEM			QUANTITY
R-1	Excavation		41,275 Cu. Yds.
R-1	Clearing and Grubbing Right of Way		One Sum
R-3	Finishing shoulders, slopes and ditches (Both sides)		16679 Lin Ft
S-7	Vitrified Sewer Pipe for driveways 12"	Material Section 6-7	30 " "
S-8	Pipe Relaid 8"-24"		245 " "
I-1	Rip Rap Retaining Wall		6 Cu. Yds.

PAVEMENT

T-2	Gravel for pavement—Traffic bound.		25,945 Sq. Yds.
T-2	Gravel for Approaches		75 Cu. Yds.

CULVERT

R-4	Excavation and refill Dry		448 Cu. Yds.
R-4	" " " Wet		344 " "
R-4	Channel Excavation		600 " "
S-1	Concrete 1:2:3	Material Sec. 2-1 + Sec. 3-1 or 2	125.4 " "
S-1	" 1:2½:4	" " " " "	303.8 " "
S-4	Reinforcing Steel	" " 7-1	15 760-lbs.
S-8	Sectional Cast Iron Pipe 14"	" " 6-1	172 Lin Ft.
S-8	" " " " 16"	" " 6-1	60
S-8	" " " " 18"	" " 6-1	231
S-8	" " " " 24"	" " 6-1	37
S-9	Corrugated Iron Pipe 15"	" " 6-4 (b-3)	14
S-9	" " " 48" (12 Guage)	" " " "	53
S-1	Type "D" Bridge Rail		98.5
S-4	Metal bar spacers, chairs, etc.		One Sum
M-10	Expansion joint	" " 10-1	52 Sq. Ft.