FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

1/113

STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS

I.C.H.No.377. SEC.I-1&J.
CARROLL CO.

Rec Dec 31, 1927
Rec'd Jan 23-1928

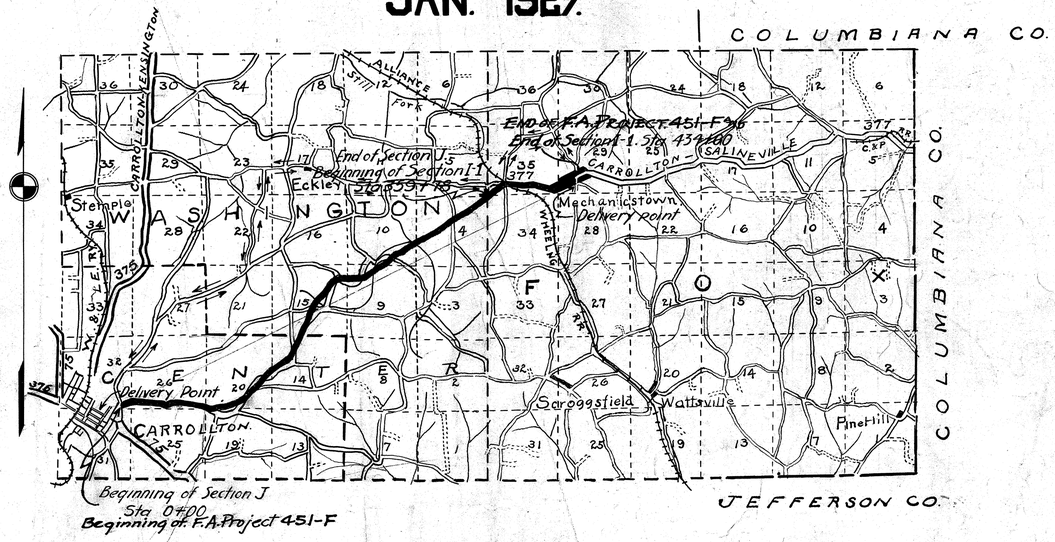
CARROLLTON-SALINEVILLE ROAD

ICH No 377 SEC. I-1&J. PET No 6179.

CARROLL COUNTY

CENTER-WASHINGTON-FOX-TWPS.

JAN. 1927.



CONVENTIONAL SIGNS

State Line
County Line
Township Line
Section Line
Property Line not fenced
Center Line
City or Village Line
Fence
Telephone or Telegraph
Steam Railroad
Guard rail
Drain pipe-new
Drain pipe-old

We, the Commissioners of Carroll County hereby approve these plans and certify that the right of way of 60 feet, and wider where shown on the cross-sections, is available for the construction, maintenance and repair of the above highway.

W. P. J. George
James Cameron
J. H. Roudebush

Date _____ County Commissioners

SCALES

Plan	1" = 100'
Profile (vertical)	1" = 10'
Profile (horizontal)	1" = 100'
Cross Sections	1" = 5'

LOCATION PLAN

SCALE OF MILES

0 1/4 1/2 3/4 1 2 3 4 5 6 7 8

PORTION TO BE IMPROVED
DETOURS SHOWN THUS

INDEX

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Typical Cross Section	2
Plans and Profile	3-16
Cross Sections	17-88
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SUPPLEMENTAL PRINTS OF STRUCTURAL STANDARDS

Drawing Number	300
" "	301
" "	B-40-2430
" "	SB-2430
" "	T-A-B
" "	RR-A
" "	AS-2430

The Standard Specifcations of the State of Ohio, Division of Highways, in force on date of contract will govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as shown on plan and estimates.

Approved: Date 8/15/27 — Vance T. Grimes, Resident Engineer

Approved: Date, Sept. 17-27. — Ed. Stingel by H.H., Resident Deputy State Highway Commissioner

Approved: Date, — Chief Engineer, Bureau of Maintenance & Repair

Approved: Date, 12-9-27 — Robt. J. Beighter, Chief Engineer, Bureau of Construction

Approved: Date, 10-14-27 — J. P. Burkey, Chief Engineer, Bureau of Bridges

Approved: Date, 12-27-27 — Harry J. Tuck, State Highway Engineer

Approved: Date, 12-27-27 — G. F. Schlesinger, Director of Highways and Public Works

Recommended for Approval: Date, — District Engineer, Bureau of Public Roads

Recommended for Approval Date, — Chief Engineer, Bureau of Public Roads

Approved: Date, — Chief of Bureau

CONSTRUCTION BUREAU
NOV 8 1956
GROUND PHOTOLAB

130 CARROLL 377 I1+J
1927

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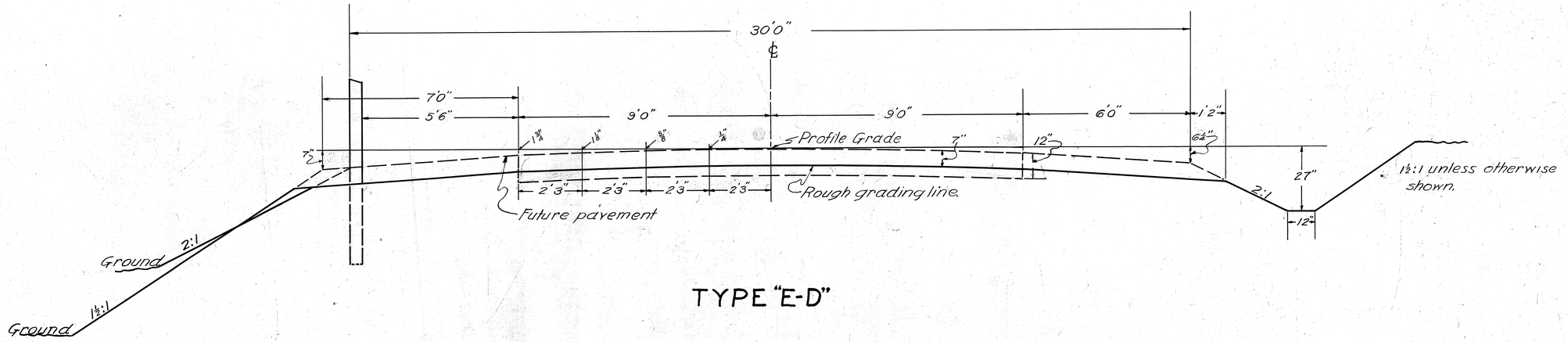
I.C.H. 377 SEC. J & I-1
CARROLL COUNTY

Note: Berms shall be widened as shown on cross sections and Type "D" guard rail built as shown on plans.

TYPICAL SECTION

Note: All curves will be superelevated and on all curves where the degree of curvature is 5° or more will be widened. See tables on alignment sheets.



TYPE "E-D"

Note: Cross Sections are drawn and excavation calculated for Type "B" pavement. For Type "E-D" lower the grade line .577. Grade of ditch remains the same.
Increased excavation = 2 (6.58) (.577) = 7.6" Decreased excavation = 18 (1 - .577) = 7.6" Therefore excavation remains the same.

Note: All materials removed from roadway which are not to be used as per contract shall be piled on right of way not more than 300' from the place of removal for the County Commissioners.

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Sta. 4+60 to 5+32 - Build 72' std. Type D guard rail.
Sta. 5+53 to 6+01 - Build 48' std. Type D guard rail.
Sta. 5+08 to 5+48 - Build 40' std. Type D guard rail.
Sta. 5+71 to 6+51 - Build 80' std. Type D guard rail.

Sta. 5+50 Place 68.6 sq.yds. wearing surface
Deduct 28.1 lin ft pavement
Old waterway 9½'x22'
New waterway 11'x20'
Build 24' span 24' roadway
Concrete slab top 35° skew bridge

CARROLLTON

John A. George

(2) Sta. 14+50 - Build std. 4'x4'x89' concrete box culvert. - 45° rt. fwd.

P.I. 18+62.96

Nail in 24" maple

Sta. 13+38 to 15+94 - Build 256' std. Type D guard rail.
Sta. 13+73 to 17+01 - Build 328' std. Type D guard rail.

Top of water tower at pottery.

Sta. 22+25 - Place 18"x24" corr. pipe 18' rt. of ℄

John A. George
Wayne George

Present traveled road

Sta. 22+25 - 170 cu. yds. excav. added for approaches. (rt. & lt.)
Included in rdwy excav.

Wayne George

Nail in 18" wild cherry

Nail in pole

Nail in 8" willow

Hub

Well

P.O.C. 20+50.00

Sta. 22+25 - Place 12"x24" corr. pipe 18' lt. of ℄

Δ 49° 46.5' R
D 2° 40'
R 2148.79
T 996.96
L 1966.50

Sta. 13+50 - Place 12"x24" corr. pipe 18' right of ℄

Sta. 15+80 - 140 cu. yds. emb. added for approach. (lt.)
Included in rdwy excav.

(1) Sta. 5+50 - Build 24'x24' std. slab bridge - 35° lt. fwd.

Beginning of project 451-F Sta. 0+00

Corporation Line
Scroggsfield road - present traveled road

Ben. E. Howell

Indian Fork

Moky M. Potterson.

Pl. 1042

Pl. 1042

Hub

P.C. 8+66.00

Ben. E. Howell

John A. George

Locust hub - 20"

S 86° 34' E

P.T. 27+32.50

Wayne George

Center of butt of lone tree on Stump Knob

Sta -1+00
12"x40' V.S.P. hillside culv. to be built by State Maintenance forces

Nail in tel. pole

Nail in tel. pole

Nail in gr.

X on brick

Present brick pavement
I.C.H. 75

N 43° 34' E

Pl. 1042

Sta. 1+00
Spike in root 12" wild cherry. 50' rt.
El. 1060.54

Sta. 11+00
Cross on west end of south abut. of bridge over Indian Fork. 200' lt.
El. 1025.68

Sta. 19+25
Spike in root of 18" white oak. 100' rt.
El. 1090.24

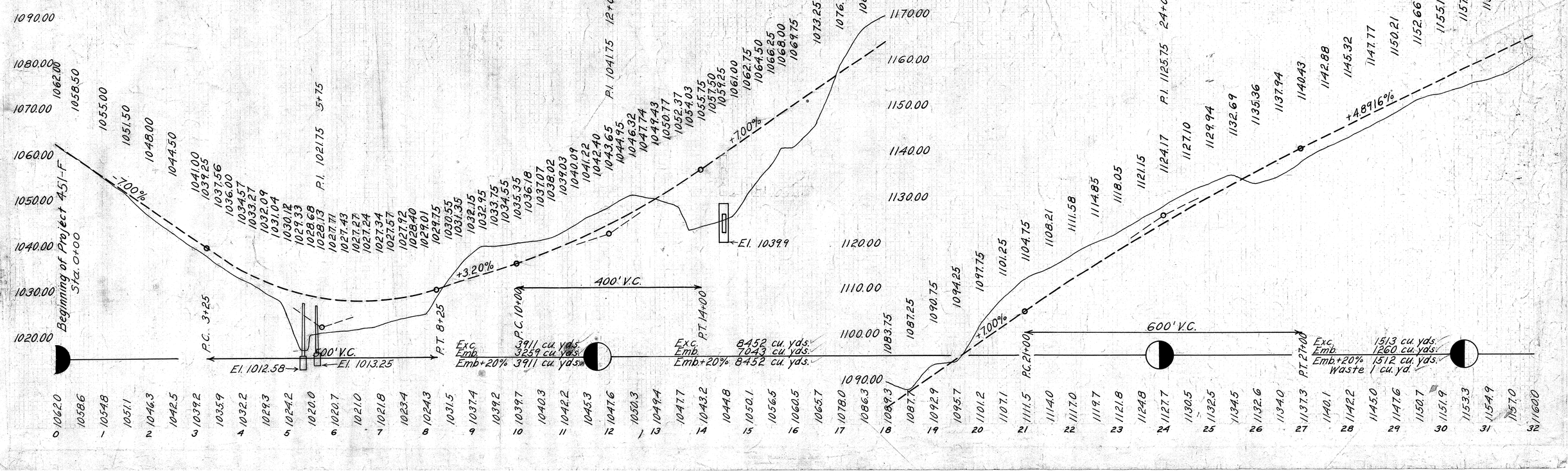
Sta. 26+00
Spike in root of dead snag. 30' lt.
El. 1138.26

LEFT Elev.	Width	℄ Elev.	Station	RIGHT Width	Elev.
1031.00	9.00	1031.15	8+66	9.00	1031.00
1032.99		1032.94	9+16		1032.79
1034.81		1034.56	+66		1034.41
1036.32		1035.87	10+16		1035.72
1037.52		1037.07	+50		1036.92
1039.48		1039.03	11+00		1038.88
1041.67		1041.22	+50		1041.07
1044.10		1043.65	12+00		1043.50
1046.77		1046.32	+50		1046.17
1049.68		1049.23	13+00		1049.08
1052.72		1052.37	+50		1052.12
1056.20		1055.75	14+00		1055.60
1059.70		1059.25	+50		1059.10
1063.20		1062.75	15+00		1062.60
1066.70		1066.25	+50		1066.10
1070.20		1069.75	16+00		1069.60
1073.70		1073.25	+50		1073.10
1077.20		1076.75	17+00		1076.60
1080.70		1080.25	+50		18
1084.20	9.00	1083.75	18+00	9.00	1083.60

1087.15	9.00	1087.25	18+50	9.00	1087.15
1091.20		1090.75	19+00		1090.60
1094.75		1094.25	+50		1094.15
1098.20		1097.75	20+00		1097.60
1101.70		1101.25	+50		1101.10
1105.20		1104.75	21+00		1104.60
1108.26		1107.81	+50		1107.66
1112.03		1111.58	22+00		1111.43
1115.30		1114.85	+50		1114.70
1118.50		1118.05	23+00		1117.90
1121.60		1121.15	+50		1121.00
1124.62		1124.17	24+00		1124.02
1127.55		1127.10	+50		1126.95
1130.39		1129.94	25+00		1129.79
1132.14		1132.69	+50		1132.54
1135.81		1135.36	26+00		1135.21
1137.19		1137.94	+50		1137.79
1140.01		1139.56	+82.5		1139.41
1142.25		1142.00	27+32.5		1141.85
1144.50		1144.45	+82.5		1144.30
1146.74	9.00	1146.89	28+32.5	9.00	1146.74

No extra pavement

Note: Grade line shown is crown of finished pavement



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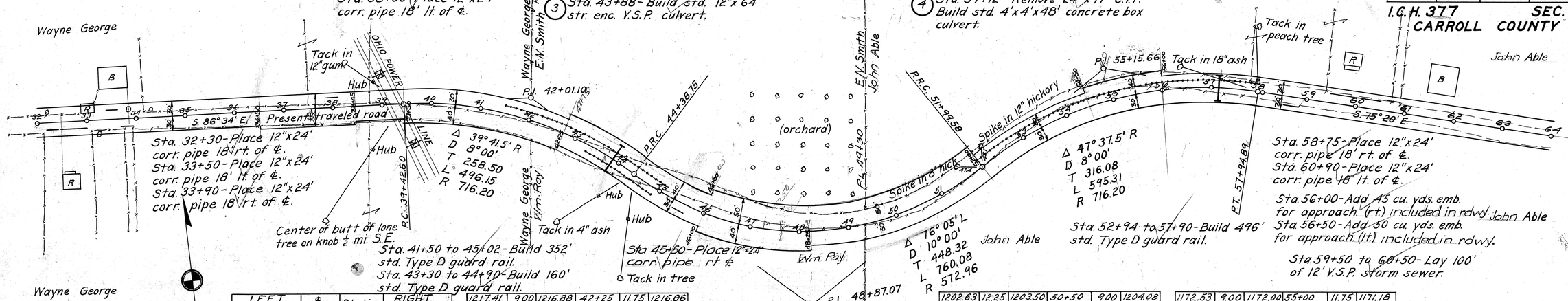
Sta. 32+40 to 33+00 - Lay 60' of 12" V.S.P. storm sewer.

Sta. 38+00 - Place 12"x24' corr. pipe 18' lt. of ℄.

(3) Sta. 43+88 - Build std. 12"x 64' str. enc. V.S.P. culvert.

(4) Sta. 57+12 - Remove 24" x 17' C.I.P. Build std. 4'x4'x48' concrete box culvert.



LEFT Elev.	Width	℄ Elev.	Station	RIGHT Width	Elev.
1199.42	9.00	1199.57	38+42.6	9.00	1199.42
1200.96		1201.01	+67.6	9.11	1200.76
1202.46		1202.41	+92.6	9.44	1202.06
1203.92		1203.76	39+17.6	9.98	1203.31
1205.35		1205.07	+42.6	10.76	1204.49
1206.78		1206.37	+67.6	11.46	1205.67
1208.15		1207.62	+92.6	11.75	1206.80
1208.45		1207.92	40+00		1207.10
1209.62		1209.09	+25		1208.27
1210.74		1210.21	+50		1209.39
1211.83		1211.30	+75		1210.48
1212.86		1212.33	41+00		1211.51
1213.86		1213.33	+25		1212.51
1214.81		1214.28	+50		1213.46
1215.72		1215.19	+75		1214.37
1216.59	9.00	1216.06	42+00	11.75	1215.24
1217.41	9.00	1216.88	42+25	11.75	1216.06
1218.19		1217.66	+50		1216.84
1218.93		1218.40	+75		1217.58
1219.62		1219.09	43+00		1218.27
1220.28		1220.67	+25		1218.93
1220.89		1221.21	+50		1219.54
1221.20	9.00	1221.73	+63.75	11.75	1219.85
1221.47	9.13	1222.23	+88.75	11.46	1220.56
1221.80	9.34	1222.59	44+13.75	10.76	1221.36
1222.08	10.21	1222.86	+38.75	9.98	1222.08
1222.21	11.15	1222.97	+63.75	9.44	1222.68
1222.24	11.94	1223.08	+88.75	9.11	1223.19
1222.10	12.25	1223.11	45+13.75	9.00	1223.55
1222.21		1223.04	+25		1223.66
1222.24		1222.87	+50		1223.69
1222.17		1222.61	+75		1223.62
1222.10		1222.25	46+00		1223.45
1221.74	12.25	1221.79	+25	9.00	1223.19
1221.38	12.25	1222.25	46+50	9.00	1222.83
1220.92		1221.79	+75		1222.37
1220.37		1221.24	47+00		1221.82
1219.70		1220.57	+25		1221.15
1218.97		1219.84	+50		1220.42
1218.11		1218.98	+75		1219.56
1217.17		1218.04	48+00		1218.62
1216.13		1217.00	+25		1217.58
1214.99		1215.86	+50		1216.44
1213.76		1214.63	+75		1215.21
1212.42		1213.29	49		1213.87
1210.99		1211.86	+25		1212.44
1209.47		1210.34	+50		1210.92
1207.84		1208.71	+75		1209.29
1206.13		1207.00	50+00		1207.58
1204.38	12.25	1205.25	+25	9.00	1205.83
1202.63	12.25	1203.50	50+50	9.00	1204.08
1200.88		1201.75	+75		1202.33
1199.13		1200.00	51+00		1200.58
1197.41	12.25	1198.28	+24.58	9.00	1198.86
1195.91	11.94	1196.53	+49.58	9.11	1196.86
1194.40	11.15	1194.78	+74.58	9.44	1194.87
1192.88	10.21	1193.03	+99.58	9.98	1192.88
1191.35	9.34	1191.28	52+24.58	10.76	1190.91
1189.89	9.13	1189.53	+49.58	11.46	1188.98
1188.31	9.00	1187.78	+74.58	11.75	1186.96
1186.53		1186.00	53+00.		1185.18
1184.78		1184.25	+25		1183.43
1183.03		1182.50	+50		1181.68
1181.28		1180.75	+75		1179.93
1179.53		1179.00	54+00		1178.18
1177.78		1177.25	+25		1176.43
1176.03		1175.50	+50		1174.68
1174.28	9.00	1173.75	+75	11.75	1172.93
1172.53	9.00	1172.00	55+00	11.75	1171.18
1170.78		1170.25	+25		1169.43
1169.03		1168.50	+50		1167.68
1167.37		1166.84	+75		1166.02
1165.87		1165.34	56+00		1164.52
1164.55		1164.02	+25		1163.20
1163.41		1162.88	+50		1162.06
1162.43		1161.90	+75		1161.08
1161.63		1161.10	57+00		1160.28
1160.99		1160.46	+25		1159.64
1160.59		1160.06	+44.89	11.75	1159.24
1160.09		1159.80	+69.89	11.46	1158.98
1159.64		1159.60	+94.89	10.76	1158.78
1159.42		1159.63	58+19.89	9.98	1158.81
1159.43		1159.85	+44.89	9.44	1159.03
1159.56		1160.18	+69.89	9.11	1159.36
1159.90	9.00	1160.72	+94.89	9.00	1159.90

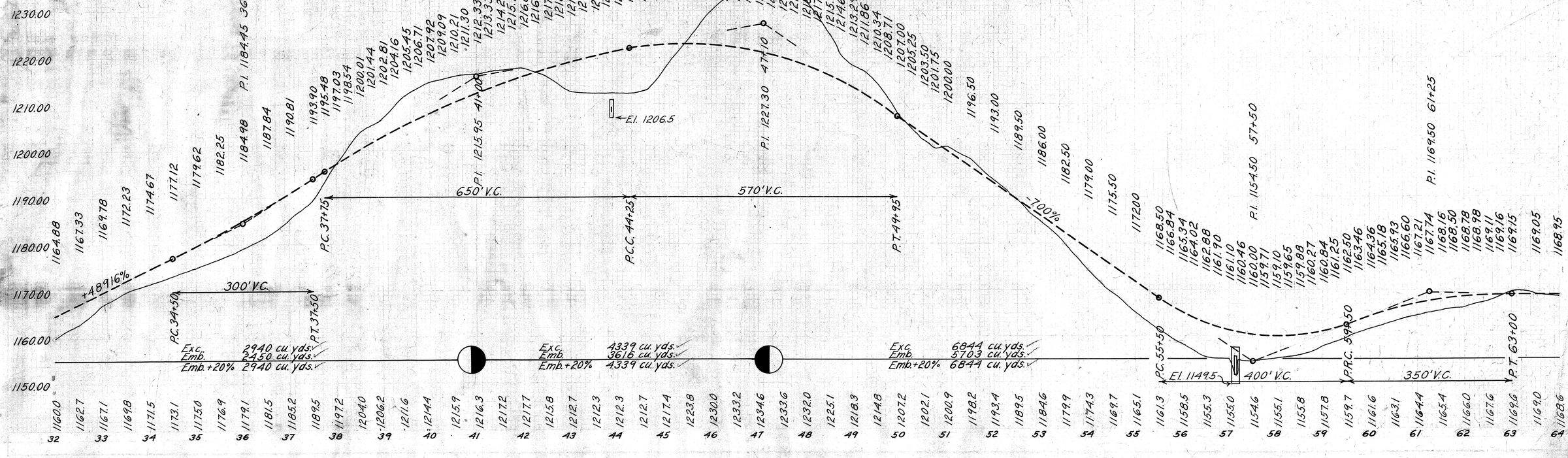
Sta. 32+50
Cross on north curb at top of steps. 25' rt.
El. 1170.84

Sta. 44+00
Two spikes in root of 30" cucumber. 100' lt.
El. 1211.20

Sta. 56+00
Nail in root of service bush. 50 lt.
El. 1158.21

Sta. 63+00
Top of sewer at N.E. corner of Able's barn.
El. 1171.61

Note: Grade line shown is crown of finished pavement.



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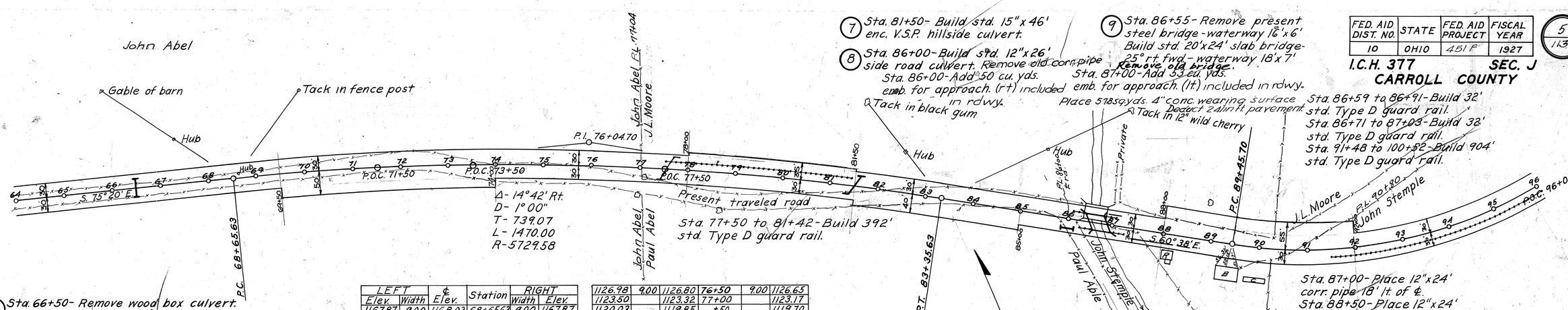


(5) Sta. 66+50- Remove wood box culvert. Build std. 12"x36' str. enc. V.S.P. culvert.

(6) Sta. 77+50- Build std. 24"x48' hillside culvert.

(7) Sta. 81+50- Build std. 15"x46' enc. V.S.P. hillside culvert.

(8) Sta. 86+00- Build std. 12"x26' side road culvert. Remove old corr. pipe
Sta. 86+00- Add 50 cu. yds. emb. for approach. (rt) included in rdwy.
Sta. 87+00- Add 33 cu. yds. emb. for approach. (lt) included in rdwy.

(9) Sta. 86+55- Remove present steel bridge- waterway 16'x6' Build std. 20'x24' slab bridge- 25° rt. fwd.- waterway 18'x7'
Remove old bridge.
Place 5785 sq yds. 4" conc. wearing surface
Deduct 24 lin ft. pavement

Sta. 86+59 to 86+91- Build 32' std. Type D guard rail.
Sta. 86+71 to 87+03- Build 32' std. Type D guard rail.
Sta. 91+48 to 100+52- Build 904' std. Type D guard rail.

Sta. 87+00- Place 12"x24' corr. pipe 18' lt. of ℄.
Sta. 88+50- Place 12"x24' corr. pipe 18' rt. of ℄.
Sta. 96+00- Place 12"x24' corr. pipe 18' lt. of ℄.

Sta. 87+50 to 88+50- Lay 100' of 12" V.S.P. storm sewer.

Sta. 77+50 to 81+42- Build 392' std. Type D guard rail.

Sta. 76+50
Nail in stump. 100 rt.
El. 1124.51

Sta. 87+00
Nail in root of 30" white oak. 50' lt.
El. 1090.02

Sta. 86+07 to 86+39- Build 32' std. Type D guard rail.
Sta. 86+19 to 86+51- Build 32' std. Type D guard rail.

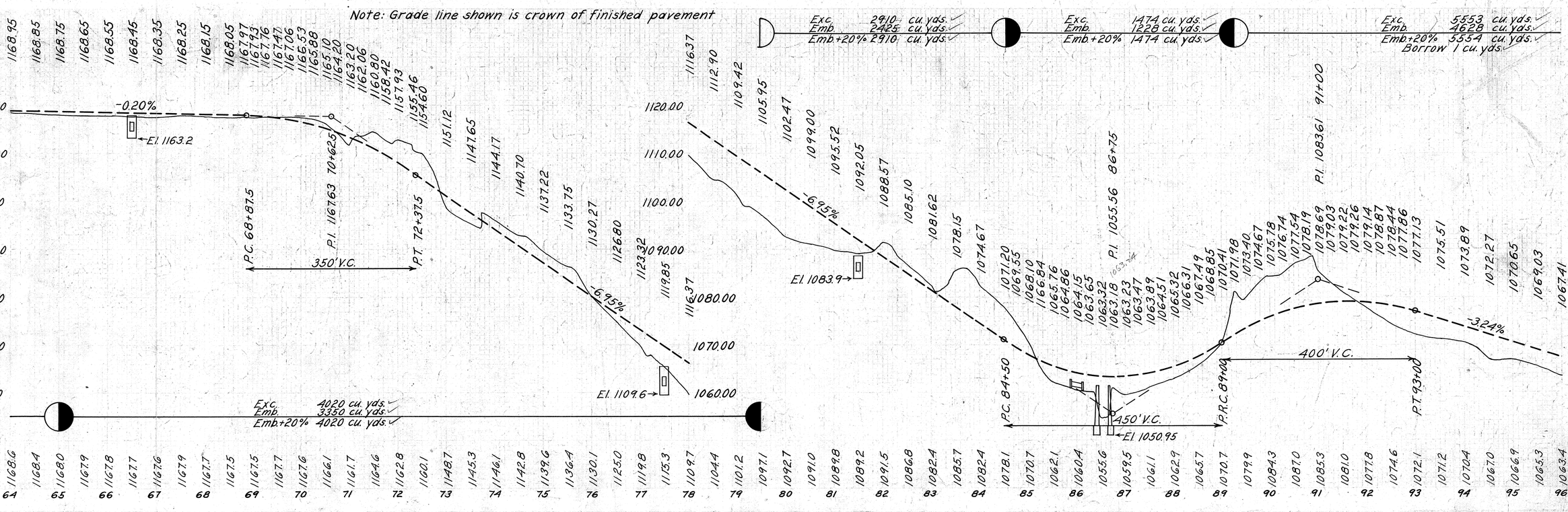
LEFT Elev.	Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1167.87	9.00	1168.02	68+65.63	9.00	1167.87
1167.80		1167.84	69+15.63		1167.69
1167.30		1167.23	+65.63		1167.08
1166.32		1166.14	70+15.63		1165.99
1165.28		1165.10	+50		1164.95
1163.38		1163.20	71+00		1163.05
1160.98		1160.80	+50		1160.65
1158.11		1157.93	72+00		1157.78
1154.78		1154.60	+50		1154.45
1151.30		1151.12	73+00		1150.97
1147.83		1147.65	+50		1147.50
1144.35		1144.17	74+00		1144.02
1140.88		1140.70	+50		1140.55
1137.40		1137.22	75+00		1137.07
1133.93		1133.75	+50		1133.60
1130.45	9.00	1130.27	76+00	9.00	1130.12

LEFT Elev.	Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1126.98	9.00	1126.80	76+50	9.00	1126.65
1123.50		1123.32	77+00		1123.17
1120.03		1119.85	+50		1119.70
1116.55		1116.37	78+00		1116.22
1113.08		1112.90	+50		1112.75
1109.60		1109.42	79+00		1109.27
1106.13		1105.95	+50		1105.80
1102.65		1102.47	80+00		1102.32
1099.18		1099.00	+50		1098.85
1095.85		1095.52	81+00		1095.37
1092.38		1092.05	+50		1091.90
1088.90		1088.57	82+00		1088.42
1085.43		1085.10	+50		1084.95
1082.95		1082.62	+83.63		1082.47
1079.21		1079.14	83+35.63		1078.99
1075.63		1075.67	+83.63		1075.52
1072.04	9.00	1072.19	84+35.63	9.00	1072.04

LEFT Elev.	Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1073.02	9.00	1073.17	89+45.7	9.00	1073.02
1074.32	9.08	1074.47	+70.7		1074.51
1075.45	9.33	1074.60	+95.7		1075.83
1076.44	9.73	1076.59	90+20.7		1077.03
1077.27	10.35	1077.42	+45.7		1078.08
1077.94	10.97	1078.09	+70.7		1078.99
1078.48	11.25	1078.63	+95.7		1079.76
1078.88		1079.03	91+25		1080.16
1079.07		1079.22	+50		1080.35
1079.11		1079.26	+75		1080.39
1078.99		1079.14	92+00		1080.27
1078.72	11.25	1078.87	+25	9.00	1080.00

LEFT Elev.	Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1078.29	11.25	1078.44	92+50	9.00	1079.58
1077.71		1077.86	+75		1078.99
1076.98		1077.13	93+00		1078.26
1076.17		1076.32	+25		1077.45
1075.36		1075.51	+50		1076.64
1074.55		1074.70	+75		1075.83
1073.74		1073.89	94+00		1075.02
1072.93		1073.08	+25		1074.21
1072.12		1072.27	+50		1073.40
1071.31		1071.46	+75		1072.59
1070.50		1070.65	95+00		1071.78
1069.69		1069.84	+25		1070.97
1068.88		1069.03	+50		1070.16
1068.07	11.25	1068.22	+75	9.00	1068.35

Note: Grade line shown is crown of finished pavement



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I.C.H. 377 SEC. J
CARROLL COUNTY

(10) Sta. 98+00 - Build std. 18"x44' str. enc. V.S.P. culvert.

Sta 106+60 Place 68.6 cu.yds. 4" conc. wearing surface
Deduct 28.1 lin.ft. pavement
Old waterway 5'x20'
New waterway 5'x20'
Build 24' span 24' Roadway conc. slab top 35° skew bridge

(11) Sta. 106+60 - Build std. 24'x24' slab bridge - 35° lt. fwd.

Sta 108 to Sta 137
Place 150 cu.yds. hand laid stone rip rap as directed by the Engineer.

(15) Sta. 124+50 - Build std. 12"x46' str. enc. V.S.P. culvert.

Sta. 106+07 to 106+39 - Build 32' std. Type D guard rail.
Sta. 106+25 to 106+57 - Build 32' std. Type D guard rail.

Sta. 106+63 to 106+95 - Build 32' std. Type D guard rail.
Sta. 106+81 to 107+13 - Build 32' std. Type D guard rail.

Sta. 118+00 - Add 25 cu. yds. excav. and 21 cu. yds. emb. for public road approach.
Included in rdwy.

Sta. 113+00 - Excavate 2'x5'x90' creek channel = 33 cu.yds.
Sta. 117+00 - Excavate 3'x5'x240' creek channel = 133 cu.yds.

Sta. 124+25 - Excavate 3'x5'x50' creek channel = 28 cu.yds.

Sta. 121+73 to 124+77 - Build 304' std. Type D guard rail.

(14) Sta. 118+00 - Build std. 12"x40' enc. V.S.P. straight culvert.

(16) Sta. 125+80 - Build std. 3'x2'x34' concrete box culvert.
Sta. 127+50 - Lay 100' of 6" clay drain tile.

Sta. 108+00 - Excavate 3'x5'x100' creek channel. = 56 cu.yds.

Sta. 111+50 - Excavate 2½'x5'x50' creek channel. = 23 cu.yds.

(12) Sta. 112+50 - Build std. 18"x38' str. enc. V.S.P. culvert.

(13) Sta. 117+50 - Build std. 18"x40' enc. V.S.P. straight culvert.

Sta. 103+00
U.S.G.S. B.M. on iron bridge. 100' rt.
El. 1064.37

Sta. 116+50
Nail in root of 24" maple. 60' lt.
El. 1073.60

Sta. 127+25
Nail in root of 24" walnut. 50' rt.
El. 1090.07

J.L. Moore
Present traveled road
Δ - 80° 14' Lt.
D - 6° 00'
L - 1337.2
T - 804.89
R - 954.93
P.I. 102+82.90
P.T. 102+82.90
J.L. Moore
Johnston Heirs
Nail in 18" wild cherry
Nail in 20" walnut
To nail in 3 fork wild cherry in fence row
To nail in wild cherry in old fence row.
Hub
Nail in black gum
Nail in 10" ash
Gantz Creek
Present traveled road
Johnston Heirs
Δ - 9° 21' 6" Rt.
D - 0° 30'
L - 1872.10
T - 937.98
R - 1145.916
P.I. 123+16.88
N. 39° 08' E.
P.C. 113+78.90
Present traveled road
Johnston Heirs

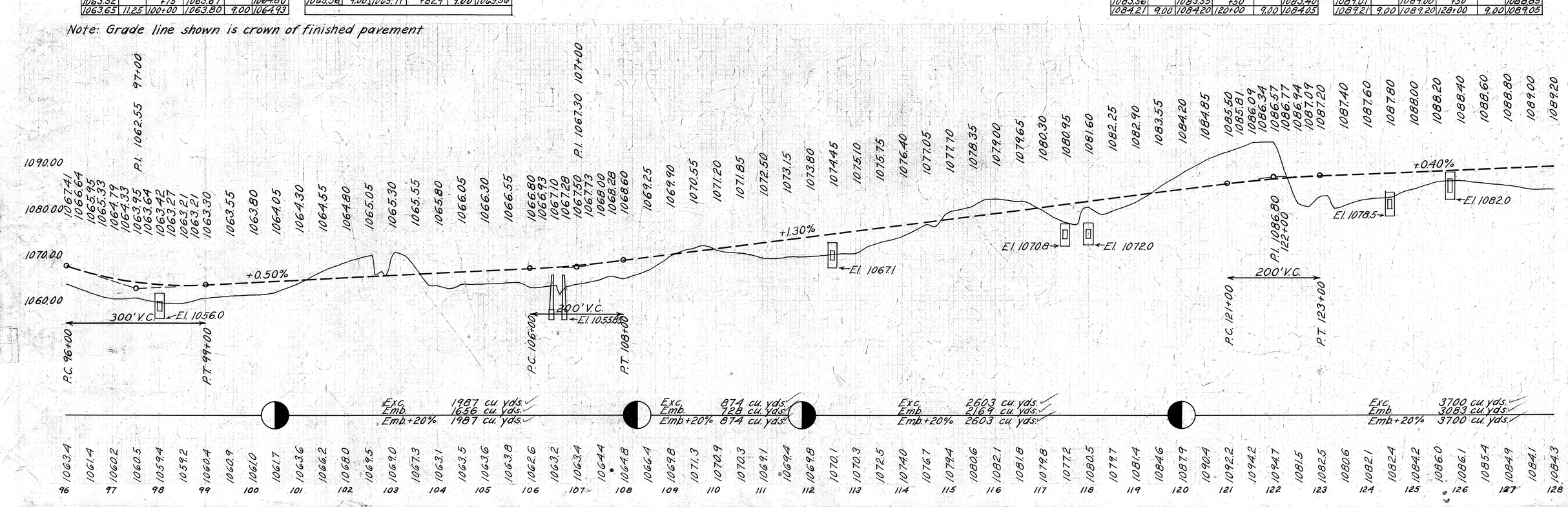
1067.36	11.25	96+00	1067.41	9.00	1068.54
1066.49		+25	1066.64		1067.77
1065.80		+50	1065.95		1067.08
1065.18		+75	1065.33		1066.46
1064.64		97+00	1064.79		1065.92
1064.18		+25	1064.33		1065.46
1063.80		+50	1063.95		1065.08
1063.49		+75	1063.64		1064.77
1063.27		98+00	1063.42		1064.55
1063.12		+25	1063.27		1064.40
1063.06		+50	1063.21		1064.34
1063.06		+75	1063.21		1064.34
1063.15		99+00	1063.30		1064.43
1063.27		+25	1063.42		1064.55
1063.40		+50	1063.55		1064.68
1063.52		+75	1063.67		1064.80
1063.65	11.25	100+00	1063.80	9.00	1064.93

1063.77	11.25	1063.92	100+25	9.00	1065.05
1063.90		1064.05	+50		1065.18
1064.02		1064.17	+75		1065.30
1064.15		1064.30	101+00		1065.43
1064.27		1064.42	+25		1065.55
1064.40		1064.55	+50		1065.68
1064.52		1064.67	+75		1065.80
1064.65		1064.80	102+00		1065.93
1064.81	11.25	1064.96	+32.9		1066.09
1064.94	10.97	1065.09	+57.9		1065.99
1065.06	10.35	1065.21	+82.9		1065.87
1065.19	9.73	1065.34	103+07.9		1065.78
1065.31	9.33	1065.46	+32.9		1065.69
1065.44	9.08	1065.59	+57.9		1065.63
1065.56	9.00	1065.71	+82.9	9.00	1065.56

LEFT		℄ Elev.	Station	RIGHT	
Elev.	Width			Width	Elev.
1075.98	9.00	1076.13	113+78.9	9.00	1075.98
1076.68		1076.78	114+28.9		1076.63
1077.38		1077.43	+78.9		1077.28
1078.09		1078.08	115+28.9		1077.93
1078.36		1078.35	+50		1078.20
1079.01		1079.00	116+00		1078.85
1079.65		1079.65	+50		1079.50
1080.31		1080.30	117+00		1080.15
1080.96		1080.95	+50		1080.80
1081.61		1081.60	118+00		1081.45
1082.26		1082.25	+50		1082.10
1082.91		1082.90	119+00		1082.75
1083.56		1083.55	+50		1083.40
1084.21	9.00	1084.20	120+00	9.00	1084.05

1084.86	9.00	1084.85	120+50	9.00	1084.70
1085.51		1085.50	121+00		1085.35
1086.10		1086.09	+50		1085.94
1086.58		1086.57	122+00		1086.42
1086.95		1086.94	+50		1086.79
1087.21		1087.20	123+00		1087.05
1087.41		1087.40	+50		1087.25
1087.61		1087.60	124+00		1087.45
1087.61		1087.60	+50		1087.65
1088.01		1088.00	125+00		1087.85
1088.21		1088.20	+50		1088.05
1088.41		1088.40	126+00		1088.25
1088.61		1088.60	+50		1088.45
1088.81		1088.80	127+00		1088.65
1089.01		1089.00	+50		1088.85
1089.21	9.00	1089.20	128+00	9.00	1089.05

Note: Grade line shown is crown of finished pavement



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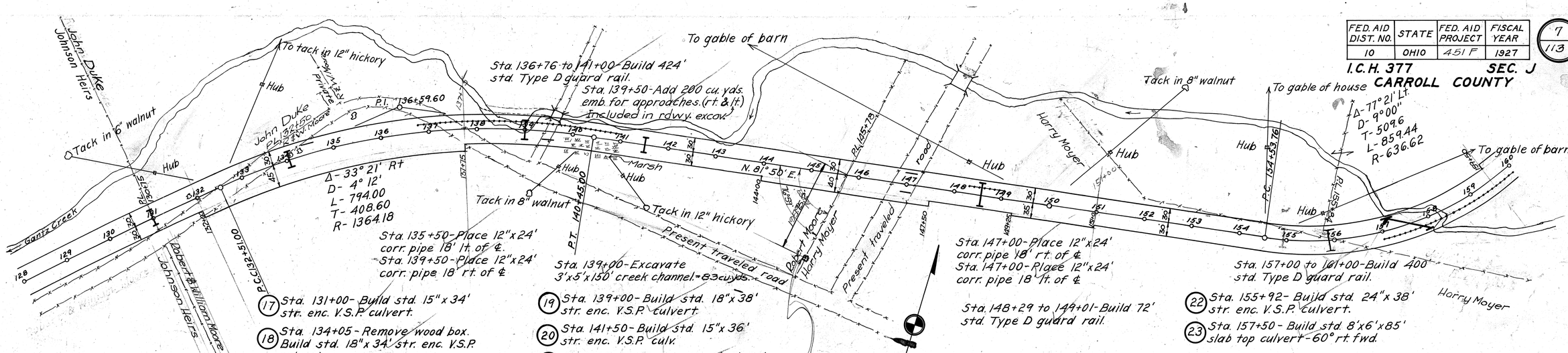


1089.41	9.00	1089.40	128+50	9.00	1089.25
1089.61		1089.60	129+00		1089.45
1089.96		1089.95	+50		1089.80
1090.61		1090.60	130+00		1090.45
1091.56		1091.55	+50		1091.40
1092.81		1092.80	131+00		1092.65
1094.21		1094.20	+50		1094.05
1095.05		1095.04	+80		1094.89
1095.77		1095.63	132+01		1095.48
1097.45		1097.03	+51		1096.88
1098.14		1098.43	133+01		1098.28
1100.51		1099.80	+50		1099.65
1101.91		1101.20	134+00		1101.05
1103.11	9.00	1102.40	+50	9.00	1102.25

1103.91	9.00	1103.20	135+00	9.00	1103.05
1104.31		1103.60	+50		1103.45
1104.31		1103.60	136+00		1103.45
1103.91		1103.20	+50		1103.05
1103.11		1102.40	137+00		1102.25
1102.19		1101.48	+50		1101.33
1101.43		1100.72	138+00		1100.57
1100.84		1100.13	+50		1099.98
1100.41		1099.70	139+00		1099.55
1100.14		1099.43	+50		1099.28
1100.02		1099.31	+95		1099.16
1099.79		1099.37	140+45		1099.22
1099.72		1099.58	+95		1099.43
1099.72	9.00	1099.87	141+45	9.00	1099.72

Sta. 131+50
Nail in root of 24" maple. 2' rt.
El. 1095.49

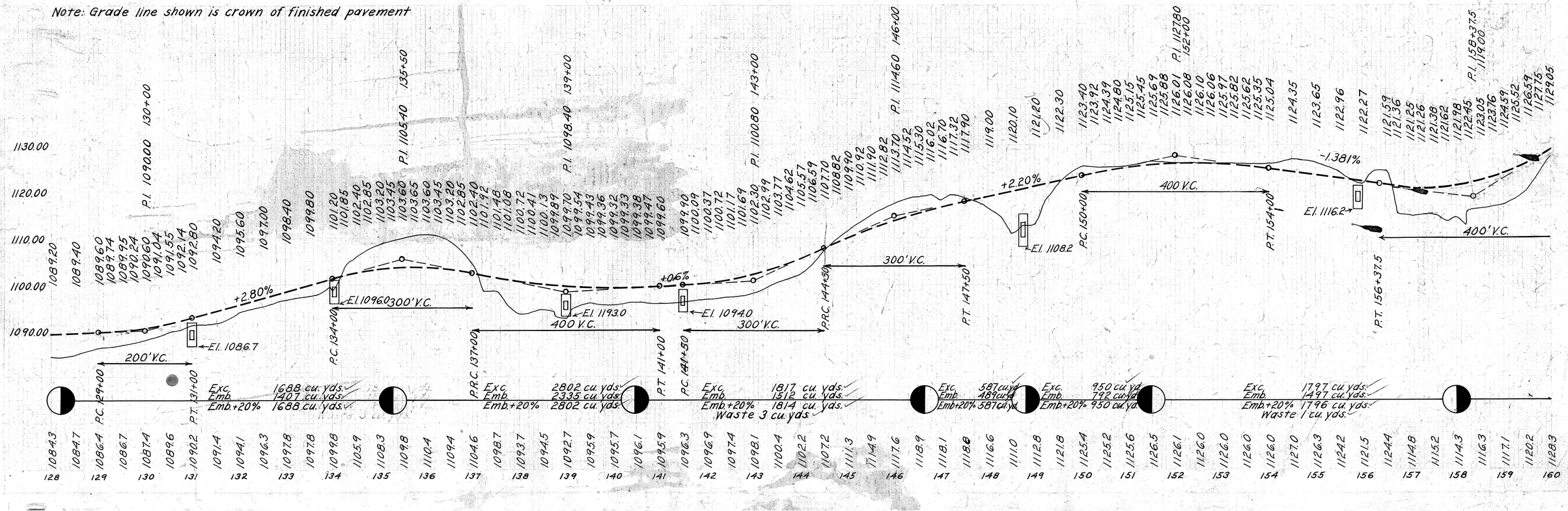
Sta. 140+00
Nail in root of 18" white oak. 150' rt.
El. 1103.55

Sta. 147+00
Top of center stone parapet on N. side of arch bridge. 200' lt.
El. 1108.87

LEFT Elev.	LEFT Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1125.53	9.00	1125.68	153+53.76	9.00	1125.53
1125.15	9.12	1125.30	+78.76		1125.35
1124.84	9.49	1124.99	154+03.76		1125.25
1124.49	10.10	1124.64	+28.76		1125.12
1124.15	10.96	1124.30	+53.76		1125.08
1123.80	11.70	1123.95	+78.76		1124.96
1123.45	12.00	1123.60	155+03.76		1124.86
1123.16		1123.31	+25		1124.57
1122.81		1122.96	+50		1124.22
1122.47		1122.62	+75		1123.88
1122.12		1122.27	156+00		1123.53
1121.78		1121.93	+25		1123.19
1121.43	12.00	1121.58	+50	9.00	1122.84

1121.09	12.00	1121.24	156+75	9.00	1122.50
1120.74		1120.89	157+00		1122.15
1120.39		1120.54	+25		1121.80
1120.14		1120.29	+50		1121.55
1120.07		1120.22	+75		1121.48
1120.19		1120.34	158+00		1121.60
1120.51		1120.66	+25		1121.92
1120.99		1121.14	+50		1122.40
1121.68		1121.83	+75		1123.09
1122.52		1122.67	159+00		1123.93
1123.57		1123.72	+25		1124.98
1124.81		1124.96	+50		1126.22
1126.23		1126.38	+75		1127.64
1127.74	12.00	1127.89	160+00	9.00	1129.15

Note: Grade line shown is crown of finished pavement



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Sta. 162+00
Lower hinge of door at N.W. corner of barn. 40' rt.
El. 1140.05

Sta. 160+50-Add 100 cu. yds. emb. for public road approach. (rt.) Included in rdwy

Harry Moyer

Present traveled road

Sta. 177+64 to 183+00-Build 536' std. Type D guard rail.

Tack in 6" gum

Tack in 6" oak

Hub

Vincent Ryan

P.I. 171+60.77

Δ-32°35' Rt.
D-4°50'
T-350.05
L-674.17
R-1185.43

Δ-16°34' Lt
D-4°00'
T-208.54
L-414.17
R-1432.39

P.C. 178+65.66

P.T. 182+79.83

N. 4° 2' E.

N. 37° 04' E.

N. 20° 30' E.

Spikes in oaks

Spikes in willows

Spike in maple

Spike in 10" ash.

P.C. 191+49.07

P.T. 163+13.20

P.C. 168+10.77

P.T. 174+84.86

Equation
164+57.40 back =
164+50.00 ahead

Harry Moyer

Harry Moyer

Hub

Hub

Hub

Tack in 15" walnut

Sta. 161+50-Place 12"x24" corr. pipe 18' rt. of ℄

Tack in 12" cherry

Tack in 18" ash

Tack in topless maple

Included in rdwy
Sta. 173+00-Add 25 cu. yds. emb. and 50 cu. yds. excav. for public road approach.

Sta. 178+50-Add 100 cu. yds. emb for road approach. Included in rdwy excav.

Vincent Ryan

Harry Moyer

S.E. Cor. of S.W. Quarter of Sec. 15

24" 18" 12" CMP

LEFT Elev.	LEFT Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1129.25	12.00	1129.40	160+25	9.00	1130.66
1130.77		1130.92	+50		1132.18
1132.28		1132.43	+75		1133.69
1133.79		1133.94	161+00		1135.20
1135.30		1135.45	+25		1136.71
1136.82		1136.97	+50		1138.23
1138.33		1138.48	+75		1139.74
1139.84		1139.99	162+00		1141.25
1141.33		1141.48	+25		1142.74
1142.77		1142.92	+50		1144.18
1143.44	12.00	1143.59	+632		1144.85
1144.08	11.70	1144.23	+882		1145.64
1145.98	10.96	1146.13	163+132		1146.91
1147.22	10.10	1147.37	+382		1147.85
1148.31	9.49	1148.46	+632		1148.72
1149.43	9.12	1149.58	+882		1149.63
1150.36	9.00	1150.51	164+132	9.00	1150.36

John Moore

(24) Sta. 161+00-Build std. 18"x46' enc. V.S.P. hillside culvert

(25) Sta. 166+50-Build std. 12"x34' str. enc. V.S.P. culvert.

(26) Sta. 172+40-Build std. 3'x3'x36' concrete box culvert.

Note: Grade line shown is crown of finished.

LEFT Elev.	LEFT Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1157.65	9.00	1157.80	167+10.72	9.00	1157.65
1158.06		1158.05	+35.12		1157.90
1158.46		1158.30	+60.72		1158.15
1158.87		1158.55	+85.72		1158.40
1159.28		1158.80	168+10.72		1158.65
1159.68		1159.05	+35.12		1158.90
1160.08		1159.29	+60.72		1159.14
1160.38		1159.59	169+00		1159.44
1160.59		1159.80	+50		1159.65
1160.60		1159.81	170+00		1159.66
1160.43		1159.64	+50		1159.49
1160.16		1159.37	171+00		1159.22
1159.89		1159.10	+50		1158.95
1159.61		1158.82	172+00		1158.67
1159.38		1158.59	+50		1158.44
1159.47		1158.68	173+00		1158.53
1159.90		1159.11	+50		1158.96
1160.69		1159.75	174+00		1159.75
1161.45		1160.66	+3486		1160.51
1161.95		1161.32	+5986		1161.17
1162.53		1162.05	+8486		1161.90
1163.12		1162.80	175+0986		1162.65
1163.71		1163.55	+3486		1163.40
1164.31		1164.30	+5986		1164.15
1164.90	9.00	1165.05	+8486	9.00	1164.90

(27) Sta. 173+00-Build std. 12"x24" sideroad culvert.

(28) Sta. 177+65-Build std. 24"x46' str. enc. V.S.P. culvert.

(29) Sta. 184+40-Build std. 15"x34" str. enc. V.S.P. culvert.

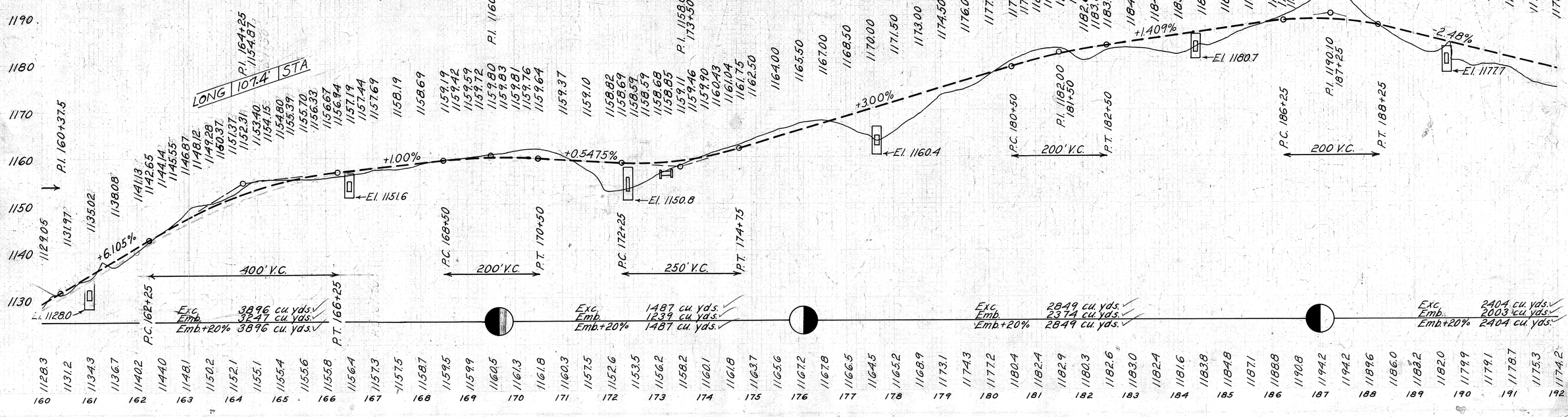
Sta. 169+50
Nail in root of 12" walnut. 30' rt.
El. 1155.68

Sta. 178+00
Nail in root of 18" red oak. 60' rt.
El. 1164.88

LEFT Elev.	LEFT Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1170.32	9.00	1170.47	177+6566	9.00	1170.32
1171.07		1171.22	+9066		1171.21
1171.82		1171.97	178+1566		1172.09
1172.57		1172.72	+4066		1172.98
1173.32		1173.47	+6566		1173.86
1174.07		1174.22	+9066		1174.75
1174.82		1174.97	179+1566		1175.63
1175.85		1176.00	+50		1176.66
1177.35		1177.50	180+00		1178.16
1178.85		1179.00	+50		1179.66
1180.25		1180.40	181+00		1181.06
1181.45		1181.60	+50		1182.26
1182.45		18260	182+00		1183.26
1182.95		1183.10	+2983		1183.76
1183.33		1183.48	+5483		1184.01
1183.68		1183.83	+7983		1184.22
1184.03		1184.18	183+0483		1184.44
1184.38		1184.53	+2983		1184.65
1184.74		1184.89	+5483		1184.88
1185.09	9.00	1185.24	+7983	9.00	1185.09

(30) Sta. 189+70-Build std. 18"x34' str. enc. V.S.P. culvert.

Sta. 186+25
Nail in root of 12" hickory. 100' rt.
El. 1198.28



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(31) Sta. 194+35 - Build std. 18"x 34' str. enc. V.S.P.

(32) Sta. 200+50 - Build std. 18"x 42' str. enc. V.S.P. culvert.

Sta. 194+00
Nail in root of 24" maple. 125' rt.
El. 1172.11

Sta. 198+75 - Lay 100' of 6" clay drain tile.

Sta. 199+00 - Place 12"x 24' corr. pipe 18' lt. of ℄.

Sta. 206+30 - Add 444 cu. yds. excav. for approaches. (rt. & lt.) included in roady. excav.

Spike in walnut

Spike in apple

Sta. 206+00
Tack in sprout of peach tree. 150 rt.
El. 1170.35

Sta. 209+00 - Place 12"x 24' corr. pipe 18' rt. and lt. of ℄.

Sta. 214+00
Nail in root of 36" locust. 40' rt.
El. 1115.87

Sta. 216+60 - Place 12"x 24' corr. pipe 18' rt. and lt. of ℄

P.I. 197+88.10

Vincent Ryan
Mellville Marshall

Δ - 37°00' Rt.
D - 3°00'
T - 639.03
L - 1233.33
R - 1909.68

P.T. 203+82.4

P.T. 206+44.00

N. 57°30' E.

(33)(34) Sta. 206+30 - Build two std. 12"x 24' enc. side road culverts.

(35) Sta. 213+70 - Build std. 6'x 4'x 53' concrete box culvert.

Sta. 211+76 to 214+56 - Build 560' std. Type D guard rail. (rt. & lt.)

Present traveled road

Hub

Gable

P.C. 222+05.77

J.H. Roudebush
Mellville Marshall

24" wild cherry

(36) Sta. 219+78 - Build std. 15"x 40' enc. V.S.P. culvert. (hillside)

LEFT Elev.	Width	℄ Elev.	Station	RIGHT Width	Elev.
1182.92	9.00	1182.07	190+49.07	9.00	1182.92
1181.41		1181.45	+74.07		1181.30
1180.93		1180.86	+99.07		1180.71
1180.38		1180.21	191+24.07		1180.06
1179.87		1179.59	+49.07		1179.44
1179.36		1178.97	+74.07		1178.82
1178.85		1178.35	+99.07		1178.20
1177.58		1177.08	192+50		1176.93
1176.34		1175.84	193+00		1175.69
1175.11		1174.61	+50		1174.46
1173.90	9.00	1173.40	194+00	9.00	1173.25

1172.72	9.00	1172.22	194+50	9.00	1172.07
1171.56		1171.06	195+00		1170.91
1170.41		1169.91	+50		1169.76
1169.26		1168.76	196+00		1168.61
1168.11		1167.61	+50		1167.46
1166.96		1166.46	197+00		1166.31
1165.81		1165.31	+50		1165.16
1164.66		1164.16	198+00		1164.01
1163.51		1163.01	+50		1162.86
1162.36		1161.86	199+00		1161.71
1161.37		1160.87	+50		1160.72
1160.68		1160.18	200+00		1160.03
1160.31	9.00	1159.81	+50	9.00	1159.66

1160.24	9.00	1159.74	201+00	9.00	1159.59
1160.49		1159.99	+50		1159.84
1161.04		1160.54	202+00		1160.39
1161.91		1161.41	+50		1161.26
1163.08		1162.58	203+00		1162.43
1163.94		1163.44	+32A		1163.29
1164.50		1164.11	+51A		1163.96
1165.04		1164.76	+82A		1164.61
1165.48		1165.31	204+01A		1165.16
1165.77		1165.70	+32A		1165.55
1165.90		1165.94	+51A		1165.79
1165.92	9.00	1166.07	+82A	9.00	1165.92

Note: Grade line shown is crown of finished pavement

SHORT 975' STA.

P.C. 193+00
P.I. 194+00 1173.36
P.T. 195+00
200' V.C.
El. 1166.2
-2.39%

P.C. 199+00
P.I. 201+00 1157.26
P.T. 203+00
400' V.C.
El. 1149.5
+2.658%

P.C. 203+75
P.I. 205+75 1169.99
P.T. 207+75
400' V.C.
-7.00%

P.C. 211+87.5
P.I. 213+87.5 1113.02
P.T. 215+87.5
400' V.C.
El. 1106.4
+5.312%

P.C. 219+87.5
P.I. 222+37.5 1157.35
500' V.C.
El. 1138.5

Exc. 2640 cu. yds.
Emb. 2200 cu. yds.
Emb.+20% 2640 cu. yds.

Exc. 3709 cu. yds.
Emb. 3091 cu. yds.
Emb.+20% 3709 cu. yds.

Exc. 2129 cu. yds.
Emb. 1774 cu. yds.
Emb.+20% 2129 cu. yds.

Boyntown to Payall
above

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I.C.H. 377 SEC. J
CARROLL COUNTY

Mellville Marshall
J.H. Roudebush

Sta. 226+00
Nail in root of 30" forked wild cherry. 30' lt.
El. 1135.02

Jasper H. Roudebush

Sta. 234+00
Two nails in ash in group of trees. 100' rt.
El. 1090.06

Present Traveled road

Sta. 246+56 to 246+88 - Build 32' std. Type D guard rail.
Sta. 246+90 to 247+02 - Build 32' std. Type D guard rail.

Sta. 243+00 to 244+50 - Lay 150' of 12" V.S.P. storm sewer.

Sta. 244+00
Cross in center of top cellar step. 50' lt.
El. 1081.80

Sta. 247+30 to 251+00
Add 370 cu. yds. excav. for 2.7'x5' ditch. (rt. & lt.) Included in rdwy excav.

Sta. 252+50 - Add 100' cu. yds. excav. for 1'x4' ditch. (lt. & rt.) included in rdwy excav.

Sta. 247+15 - Place 1320 sq. yds. wearing surface. Deduct 516 lin. ft. pavement.

(39) Sta. 247+15
Build Special Twin span Slab Bridge.
Each span - 23-1⅛"
Roadway - 24 ft.

Sta. 247+28 to 247+60 - Build 32' std. Type D guard rail.
Sta. 247+42 to 247+74 - Build 32' std. Type D guard rail.

J.H. Roudebush

Δ - 80°35' Lt.
D - 4°50'
T - 560.15
L - 1046.55
R - 1185.43

Sta. 230+00 - Place 15"x24' corr. pipe 18' rt. of ℄
Sta. 230+00 - Place 12"x24' corr. pipe. 18' lt. of ℄.

Tile drain

P.I. 233+60.00
6" elm - 57.50
8" white oak - 50.47
15" elm - 47.62

Sta. 237+00 - Excavate 4'x8'x100' creek channel. = 119 cu. yds.

Sta. 242+00 - Place 12"x24' corr. pipe 18' lt. of ℄
Sta. 245+00 - Place 12"x24' corr. pipe 18' lt. of ℄.

Sta. 242+00 - Add 40 cu. yds. emb. for approach. (lt.) included in rdwy. excav.

Spring

18" locust - 58.65'
12" locust - 50.85'

Double maple 73.40'

P.C. 248+28.90

Stone

Ditch

Marsh

P.I. 253+89.05

P.O.C. 234+00

P.O.C. 226+50

P.O.C. 243+50

Sta. 233+50 to 237+50 - Add 237 cu. yds. for 2'x4' ditch. (rt. & lt.) included in rdwy. excav.

(38) Sta. 237+00 - Build std. 5'8"x5'4" slab top culvert - 46° rt. fwd.

Sta. 237+50 to 240+50 - Add 180 cu. yds. excav. for 2'x4' ditch (rt. & lt.) included in rdwy. excav.

Δ - 19°23' Rt.
D - 0°50'
T - 1174.33
L - 2326.00
R - 6875.49

Garage

N. 76° 54' E.

P.T. 245+31.77

Sta. 245+00 - Add 20 cu. yds. emb. for approach. (lt.) included in rdwy. excav.

Hub
Josper H. Rodebush
Hub
Hub

Nail in 18" maple
Nail in 12" wild cherry

(40) Sta. 253+50 - Build std. 18"x34' str. enc. V.S.P. culvert.
J.H. Roudebush

(37) Sta. 229+00 - Build std. 18"x40' enc. hillside culvert.
J.H. Roudebush

LEFT Elev.	LEFT Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1148.72	9.00	1148.87	221+05.77	9.00	1148.72
1149.68		1149.74	+55.77		1149.59
1150.01		1149.98	222+05.77		1149.83
1149.62		1149.50	+55.77		1149.35
1148.80		1148.68	223+00		1148.53
1147.29		1147.17	+50		1147.02
1146.16		1145.04	224+00		1144.89
1142.41		1142.29	+50		1142.14
1139.10		1138.98	225+00		1138.83
1135.60		1135.48	+50		1135.33
1132.10		1131.98	226+00		1131.83
1128.60		1128.48	+50		1128.33
1125.10		1124.98	227+00		1124.83
1122.60		1121.48	+50		1121.33
1118.10		1117.98	228+00		1117.83
1114.60	9.00	1114.48	+50	9.00	1114.33

1111.11	9.00	1110.99	229+00	9.00	1110.84
1107.80		1107.68	+50		1107.53
1104.73		1104.61	230+00		1104.46
1101.93		1101.80	+50		1101.65
1099.35		1099.23	231+00		1099.08
1096.96		1096.84	+50		1096.67
1094.97		1094.85	232+00		1094.70
1093.16		1093.04	+50		1092.89
1091.60		1091.48	233+00		1091.33
1090.17		1090.07	+50		1089.92
1089.22		1089.10	234+00		1088.95
1088.22		1088.10	+50		1087.95
1087.22		1087.10	235+00		1086.98
1086.22		1086.10	+50		1085.98
1085.22		1085.10	236+00		1084.95
1084.22		1084.10	+50		1083.95
1083.37		1083.25	237+00		1083.10
1082.82		1082.70	+50		1082.55
1082.57	9.00	1082.45	238+00	9.00	1082.30

1082.62	9.00	1082.50	238+50	9.00	1082.35
1082.97		1082.85	239+00		1082.70
1083.62		1083.50	+50		1083.35
1084.42		1084.30	240+00		1084.15
1085.22		1085.10	+50		1084.95
1086.02		1085.90	241+00		1085.75
1086.63		1086.51	+50		1086.36
1086.85		1086.73	242+00		1086.56
1086.69		1086.57	+50		1086.42
1085.59		1085.47	243+00		1085.32
1083.65		1083.43	+50		1083.20
1081.13		1081.01	244+00		1080.86
1078.47		1078.20	+50		1078.05
1076.71		1076.44	+81.77		1076.29
1074.47		1074.29	245+31.77		1074.14
1072.99		1072.90	+81.77		1072.75
1072.25	9.00	1072.25	246+31.77	9.00	1072.10

LEFT Elev.	LEFT Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1072.05	9.00	1072.20	247+28.90	9.00	1072.05
1072.05		1072.20	+53.90		1072.21
1072.05		1072.20	+78.90		1072.36
1072.05		1072.20	248+03.90		1072.52
1072.05		1072.20	+28.90		1072.68
1072.05		1072.20	+53.90		1072.83
1072.05		1072.20	+78.90		1072.99
1072.05		1072.20	249+00		1072.99
1072.05		1072.20	+50		1072.99
1072.05	9.00	1072.20	250+00	9.00	1072.99

1072.05	9.00	1072.20	250+50	9.00	1072.99
1072.05		1072.20	251+00		1072.99
1072.05		1072.20	+50		1072.99
1072.05		1072.20	252+00		1072.99
1072.05		1072.20	+50		1072.99
1072.05		1072.20	253+00		1072.99
1072.05		1072.20	+50		1072.99
1072.13		1072.28	254+00		1073.07
1072.30		1072.45	+50		1073.24
1072.63		1072.78	255+00		1073.57
1073.05		1073.20	+50		1073.99
1073.55	9.00	1073.70	256+00	9.00	1074.49

Note: Grade line shown is crown of finished pavement.

Exc. 4256 cu. yds. ✓
Emb. 3547 cu. yds. ✓
Emb. +20% 4256 cu. yds. ✓

Exc. 820 cu. yds. ✓
Emb. 957 cu. yds. ✓
Emb. +20% 1148 cu. yds. ✓
Borrow 209 cu. yds. ✓

Exc. 4068 cu. yds. ✓
Emb. 3390 cu. yds. ✓
Emb. +20% 4068 cu. yds. ✓

1145.04 1143.75 1142.29 1139.86 1138.98

1140 1130 1120 1110 1100 1090 1080 1070

P.T. 224+87.5
E.l. 1105.0
-7.00%
500' V.C.
P.C. 228+87.5
P.T. 233+87.5
-2.00%
300' V.C.
E.l. 1074.5
P.C. 236+50
P.T. 239+50
+1.60%
P.C. 241+00
350' V.C.
P.R.C. 244+50
200' V.C.
P.T. 246+50
E.l. 1060.70
0.00%
P.C. 253+50
200' V.C.
P.T.

P.I. 1081.10 238+00
P.I. 1088.70 242+75
P.I. 1072.20 245+50
P.I. 1072.20 254+50

1142.1 1139.3 1140.1 1139.7 1136.0 1130.6 1126.0 1121.5 1116.5 1113.4 1109.4 1106.6 1102.7 1100.0 1099.0 1097.4 1094.9 1092.5 1090.3 1087.4 1085.3 1084.1 1083.3 1082.4 1081.5 1079.4 1078.6 1077.9 1077.5 1080.2 1080.2 1080.1 1080.4 1081.3 1082.7 1085.1 1086.5 1087.2 1085.4 1083.2 1080.2 1076.2 1074.6 1072.1 1070.1 1069.7 106 1069.2 1069.3 1069.2 1069.5 1069.9 1069.4 1066.9 1068.8 1069.5 1069.4 1069.2 1069.3 1068.7 1069.4 1071.1 1074.2 1078.0

224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256

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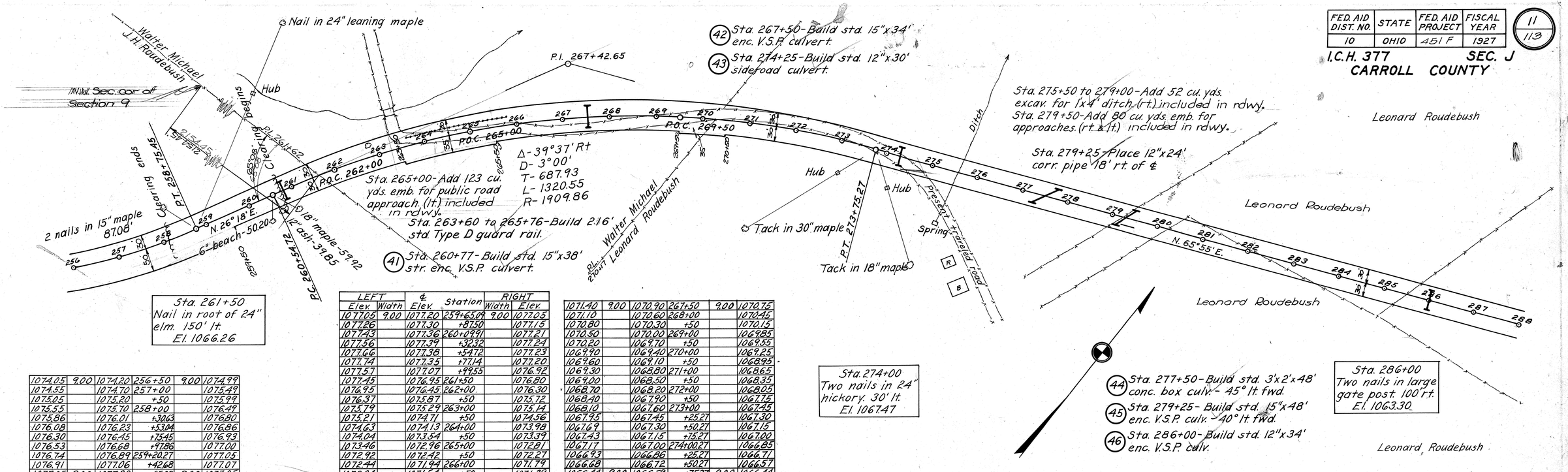
I.C.H. 377 SEC. J
CARROLL COUNTY

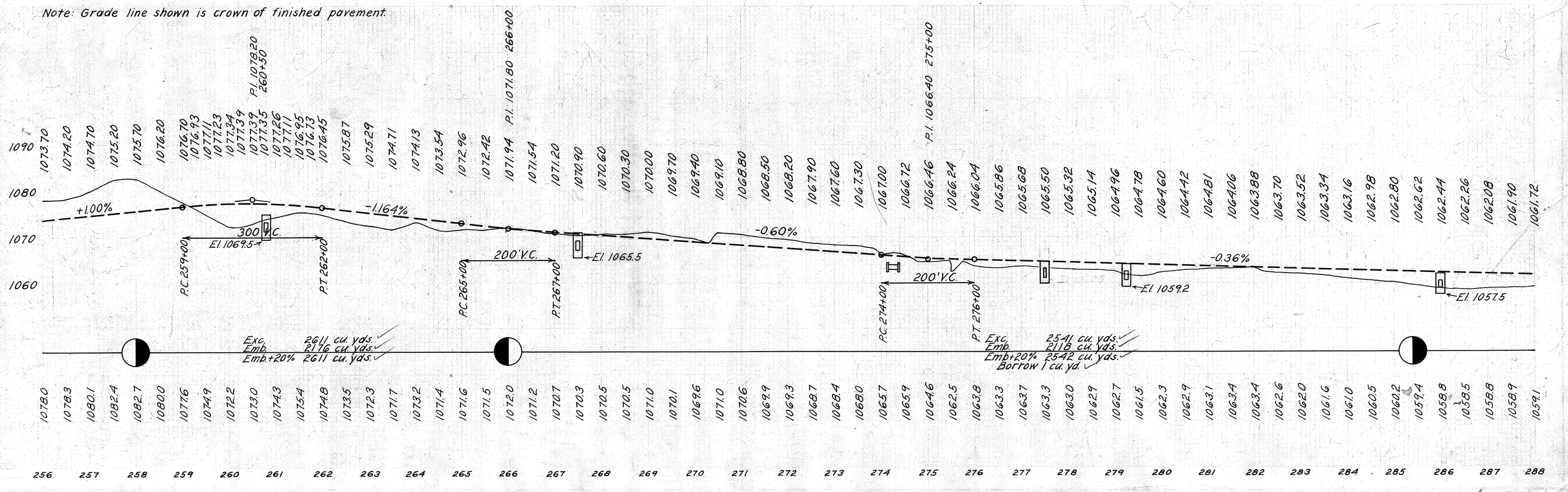


1074.05	9.00	1074.20	256+50	9.00	1074.99
1074.55		1074.70	257+00		1075.49
1075.05		1075.20	+50		1075.99
1075.55		1075.70	258+00		1076.49
1075.86		1076.01	+3.063		1076.80
1076.08		1076.23	+53.04		1076.86
1076.30		1076.45	+75.45		1076.93
1076.53		1076.68	+97.86		1077.00
1076.74		1076.89	259+20.27		1077.05
1076.91		1077.06	+42.68		1077.07
1077.05	9.00	1077.20	+65.09	9.00	1077.05

LEFT Elev.	LEFT Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1077.05	9.00	1077.20	259+65.09	9.00	1077.05
1077.26		1077.30	+87.50		1077.15
1077.43		1077.36	260+09.91		1077.21
1077.56		1077.39	+32.32		1077.24
1077.66		1077.38	+54.72		1077.23
1077.74		1077.35	+77.14		1077.20
1077.57		1077.07	+99.55		1076.92
1077.45		1076.95	261+50		1076.80
1076.95		1076.45	262+00		1076.30
1076.37		1075.87	+50		1075.72
1075.79		1075.29	263+00		1075.14
1075.21		1074.71	+50		1074.56
1074.63		1074.13	264+00		1073.98
1074.04		1073.54	+50		1073.39
1073.46		1072.96	265+00		1072.81
1072.92		1072.42	+50		1072.27
1072.44		1071.94	266+00		1071.79
1072.04		1071.54	+50		1071.39
1071.70	9.00	1071.20	267+00	9.00	1071.05

1071.40	9.00	1070.90	267+50	9.00	1070.75
1071.10		1070.60	268+00		1070.45
1070.80		1070.30	+50		1070.15
1070.50		1070.00	269+00		1069.85
1070.20		1069.70	+50		1069.55
1069.90		1069.40	270+00		1069.25
1069.60		1069.10	+50		1068.95
1069.30		1068.80	271+00		1068.65
1069.00		1068.50	+50		1068.35
1068.70		1068.20	272+00		1068.05
1068.40		1067.90	+50		1067.75
1068.10		1067.60	273+00		1067.45
1067.95		1067.45	+25.27		1067.30
1067.69		1067.30	+50.27		1067.15
1067.43		1067.15	+75.27		1067.00
1067.17		1067.00	274+00.27		1066.85
1066.93		1066.86	+25.27		1066.71
1066.68		1066.72	+50.27		1066.57
1066.44	9.00	1066.59	+75.27	9.00	1066.44

Note: Grade line shown is crown of finished pavement



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I.C.H. 377 SEC. J
CARROLL COUNTY

Sta. 288+00 to 295+50 - Add 222 cu. yds. excav. for 1'x4' ditch (rt. & lt.) Included in rdwy. excav.
Sta. 290+00 - Add 40 cu. yds. emb. for two field approaches. Included in rdwy.

Sta. 295+80 to 301+00 - Add 300 cu. yds. excav. for 2'x4' ditch (rt. & lt.) Included in rdwy excav.

Sta. 295+70 Place 110.0 sq. yds. 4" conc. wearing surface Deduct 44 lin. ft. pavement.
Build Concrete Beam Bridge B40-24-30 Clear Span 40'. Roadway 24'.

Sta. 310+00 - Add 87 cu. yds. emb. for approach. (lt.) Included in rdwy excav.

Sta. 310+00 to 316+00 - Add 355 cu. yds. emb. for 2'x4' ditch (rt. & lt.) Included in rdwy. excav.

Nail in 8" elm
Sta. 290+00 - Place 12"x24' corr. pipe 18' rt. and lt. of ℄
P.I. 292+05
U.G. Roudebush
Hub
x10
Sta. 295+18 to 295+50 - Build 64' std. Type D guard rail (rt. & lt.)
Sta. 295+90 to 296+22 - Build 64' std. Type D guard rail. (rt. & lt.)
Sta. 299+00 to 302+76 - Build 752' std. Type D guard rail. (rt. & lt.)
Clearing begins
Nail in 8" hickory
J.H. McAllister
Nail in 8" dogwood
Hub
Hub
Clearing ends
Clearing begins
Clearing ends
P.S. McAllister
Spring
Marsh
P.O.T. 294+00
N. 65° 55' E.
P.O.T. 303+63.10
P.O.T. 307+84.00
Hub
Hub
Leonard Roudebush
Grant Roudebush
Hub
U.G. Roudebush
Nail in 12" elm
Grant Roudebush
J.H. McAllister
P.I. 300+44
Marsh
P.I. 310+75
P.S. McAllister
Sta. 307+69 to 310+49 - Build 560' std. Type D guard rail. (rt. & lt.)
J.H. McAllister
P.S. McAllister
Nail in 6" hickory
Nail in 8" ironwood
J.H. McAllister

Sta. 292+00
Nail in root of 6" elm. 100' lt.
El. 1057.12

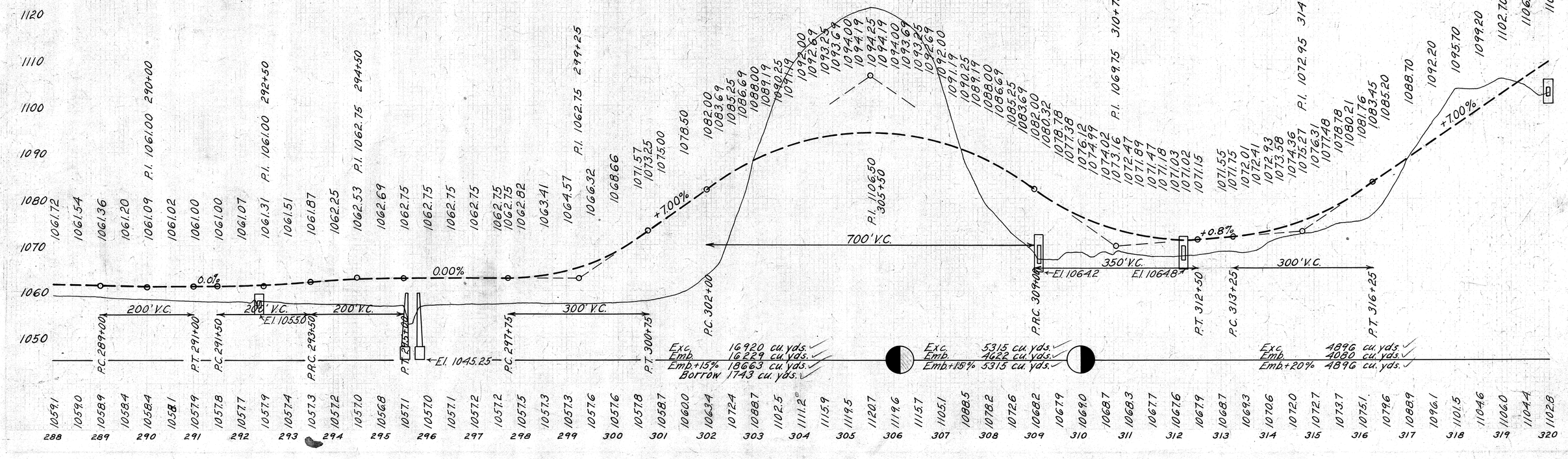
(47) Sta. 292+40 - Build std. 24"x42' enc. V.S.P. culv. - 30° lt. fwd.
(48) Sta. 295+70 - Build std. 40'x24' beam bridge.
Old waterway None Present
New waterway 40'x8½'

Sta. 300+50
Nail in root of 12" maple. 50 rt.
El. 1058.63

Sta. 311+00
Nail in root of 36" elm. 150 rt.
El. 1067.58

(49) Sta. 309+10 - Build std. 6'x4'x62' concrete box culvert.
(50) Sta. 312+20 - Build std. 3'x3'x40' conc. box culvert - 30° lt. fwd.
(51) Sta. 320+00 - Build std. 12"x46' enc. V.S.P. culvert.

Note: Grade line shown is crown of finished pavement.



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I.C.H. 377 SEC. J
CARROLL COUNTY

Sta. 328+24 to 329+20-Build 96'
std. Type D guard rail.
Sta. 328+00 to 329+04-Build 104'
std. Type D guard rail.

Nail in 12" wild cherry

Hub

Clearing begins

Clearing ends

R.S. McAllister
Pt. 330+00 to edge of road
Malinda Randolph

Present traveled road

Molinda Randolph

Sta. 337+00-Place 12"x24' corr. pipe 18' rt. and lt. of ℄.
Sta. 343+00-Place 12"x24' corr. pipe 18' rt. and lt. of ℄.

P.I. 341+96

P.S. McAllister

Clearing begins

Clearing ends

320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352

P.O.T. 325+39.70

Hubs 70.00' from point

N. 65° 55' E.

P.O.T. 335+48.00

P.O.T. 346+36.50

Hub

Hub

Hub

Hub

Nail in 10" wild cherry

Sta. 339+20+341+52-Build 232'
std. Type D guard rail.
Sta. 339+50 to 341+26-Build 176'
std. Type D guard rail.

Sta. 347+68 to 348+00-Build 32'
std. Type D guard rail.
Sta. 347+60 to 349+84-Build 224'
std. Type D guard rail.
Sta. 350+75 to 352+03-Build 128'
std. Type D guard rail.

P.S. McAllister

(52) Sta. 328+75-Build std. 3'x3'x45' concrete box culvert.
(53) Sta. 330+00-Build std. 12"x26' sideroad culvert. (right)
(54) Sta. 330+00-Build std. 18"x26' sideroad culvert. (left)

R.S. McAllister
Malinda Randolph

Tack in 12" oak

Nails in 10" apples

Melinda Randolph

Nail in 8" ash

Present traveled road

R

(55) Sta. 340+00-Build std. 4'x3'x74' concrete box culvert.
(56) Sta. 347+80-Build std. 24"x54' enc. V.S.P. culvert.

Sta. 328+00
Nail in 6" wild cherry stump. 50' lt.
El. 1119.44

Sta. 332+50
Nail in root of 14" hickory. 50 lt.
El. 1137.57

Sta. 344+50
Nail in root of 4" wild cherry. 50' rt.
El. 1155.92

Note: Grade line shown is crown of finished pavement

Exc. 2762 cu. yds.
Emb. 2302 cu. yds.
Emb+20% 2762 cu. yds.

1180 1170 1160 1150 1140 1130 1120 1110 1100

1109.70 1113.20 1116.70 1120.20 1123.35 1125.81 1127.58 1128.64 1129.02 1128.69 1127.67 1125.96 1123.90 1121.84 1120.07 1118.88 1118.27 1118.26 1118.81 1119.96 1121.69 1124.00 1126.60 1129.20 1131.80 1134.40 1137.00 1139.53 1141.57 1143.05 1143.97 1144.33 1144.13 1143.36 1142.04 1140.15 1139.00 1137.87 1136.13 1135.08 1134.73 1135.08 1136.14 1137.89 1140.35 1143.50 1147.00 1150.50 1153.87 1156.98 1159.82 1162.40 1164.72 1166.79 1168.58 1170.12 1171.40 1172.42 1173.17 1173.66 1174.02 1174.38 1174.74 1175.10 1175.46 1175.82

P.I. 134.20, 323+50
P.I. 113.60, 328+50
P.I. 115.00, 335+50
P.I. 112.63, 337+87.5
P.I. 117.50, 346+00

+7.00%
-4.12%
+5.20%
+7.00%
+0.72%

400' V.C.
400' V.C.
450' V.C.
425' V.C.
600' V.C.

P.C. 321+00
P.T. 325+00
P.C. 326+50
P.T. 330+00
P.C. 333+25
P.R.C. 337+75
P.T. 342+00
P.C. 343+00
P.T. 349+00

El. 1110.70
El. 1115.0
El. 1157.5

1102.8 1108.1 1117.1 1123.6 1127.1 1127.8 1128.3 1128.4 1128.6 1129.7 1129.8 1127.8 1125.5 1123.7 1127.0 1114.6 1110.5 1110.8 1115.4 1119.1 1124.2 1128.8 1132.9 1134.3 1135.2 1136.3 1138.1 1141.0 1143.9 1147.7 1149.6 1147.4 1148.2 1143.5 1137.5 1136.3 1137.7 1135.0 1127.5 1118.9 1119.5 1127.1 1136.9 1140.6 1144.7 1149.0 1153.6 1160.1 1165.1 1170.7 1175.1 1178.7 1178.8 1175.9 1170.9 1163.8 1169.1 1170.9 1171.0 1173.8 1174.6 1173.8 1174.3 1171.0

320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352

Exc. 1310 cu. yds.
Emb. 1091 cu. yds.
Emb+20% 1309 cu. yds.
Waste 1 cu. yd.

Exc. 4997 cu. yds.
Emb. 4345 cu. yds.
Emb+15% 4997 cu. yds.

Exc. 5392 cu. yds.
Emb. 4540 cu. yds.
Emb+20% 5448 cu. yds.
Borrow 56 cu. yds.

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	481 #	1927

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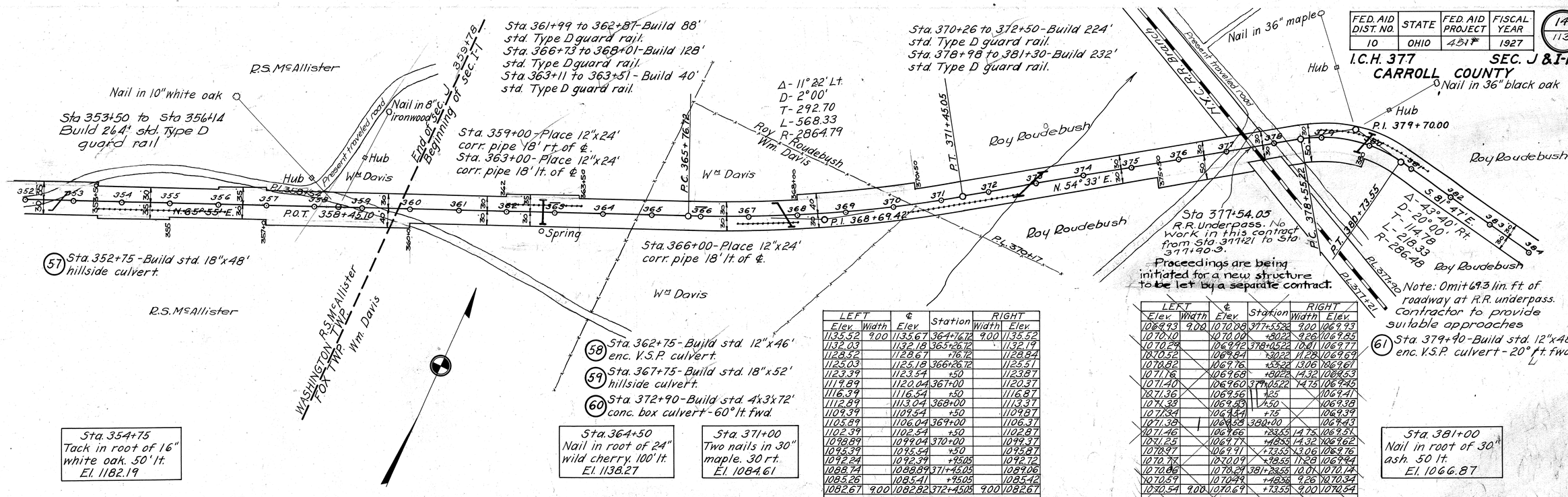
I.C.H. 377 SEC. J & I-1
CARROLL COUNTY



(57) Sta. 352+75 - Build std. 18"x48" hillside culvert.

(58) Sta. 362+75 - Build std. 12"x46' enc. V.S.P. culvert.

(59) Sta. 367+75 - Build std. 18"x52' hillside culvert.

(60) Sta. 372+90 - Build std. 4'x3'x72' conc. box culvert - 60° lt. fwd.

(61) Sta. 379+90 - Build std. 12"x48' enc. V.S.P. culvert - 20° lt. fwd.

LEFT Elev.	Width	℄ Elev.	Station	RIGHT Width	Elev.
1135.52	9.00	1135.67	364+76.12	9.00	1135.52
1132.03		1132.18	365+26.12		1132.19
1128.52		1128.67	+76.12		1128.84
1125.03		1125.18	366+26.12		1125.51
1123.39		1123.54	+50		1123.87
1119.89		1120.04	367+00		1120.37
1116.39		1116.54	+50		1116.87
1112.89		1113.04	368+00		1113.37
1109.39		1109.54	+50		1109.87
1105.89		1106.04	369+00		1106.37
1102.39		1102.54	+50		1102.87
1098.89		1099.04	370+00		1099.37
1095.39		1095.54	+50		1095.87
1092.24		1092.39	+95.05		1092.72
1088.74		1088.89	371+45.05		1089.06
1085.26		1085.41	+95.05		1085.42
1082.67	9.00	1082.82	372+45.05	9.00	1082.67

LEFT Elev.	Width	℄ Elev.	Station	RIGHT Width	Elev.
1069.93	9.00	1070.08	377+55.22	9.00	1069.93
1070.10		1070.00	+80.22	9.26	1069.85
1070.29		1069.92	378+05.22	10.41	1069.77
1070.52		1069.84	+30.22	11.28	1069.69
1070.82		1069.76	+55.22	13.06	1069.61
1071.16		1069.68	+80.22	14.32	1069.53
1071.40		1069.60	379+05.22	14.75	1069.45
1071.36		1069.56	+25		1069.41
1071.33		1069.50	+50		1069.38
1071.34		1069.54	+75		1069.39
1071.38		1069.58	380+00		1069.43
1071.46		1069.66	+33.55	14.75	1069.51
1071.25		1069.77	+48.55	14.32	1069.62
1070.97		1069.91	+73.55	13.06	1069.76
1070.77		1070.09	+98.55	11.28	1069.94
1070.66		1070.29	381+23.55	10.01	1070.14
1070.59		1070.49	+48.55	9.26	1070.34
1070.54	9.00	1070.69	+73.55	9.00	1070.54

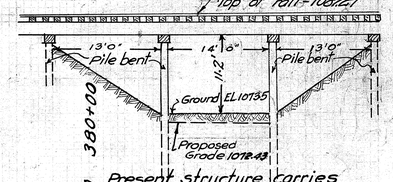
Sta. 354+75
Tack in root of 16" white oak. 50' lt.
El. 1182.19

Sta. 364+50
Nail in root of 24" wild cherry. 100' lt.
El. 1138.27

Sta. 371+00
Two nails in 30" maple. 30 rt.
El. 1084.61

Sta. 381+00
Nail in root of 30" ash. 50 lt.
El. 1066.87

Sta. 377+54.05
Section of present underpass parallel to R.R. track



Note: Grade line shown is crown of finished pavement

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451F	1927

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I.C.H. 377 SEC. I-I
CARROLL COUNTY

Sta. 392+00 - Lay 100' of 6" clay drain tile.

Sta. 397+50 - Excavate 3'x5'x90' creek channel. = 50 cu. yds.

Sta. 397+50 Place 30 cu. yds. hand laid stone rip rap

Nail in 18" elm

Sta. 399+50 - Add 100 cu. yds. emb. for approach (rt.) included in rdwy.

Sta. 402+00 - Add 300 cu. yds. emb. for approach (rt.) included in rdwy.

Sta. 404+00 - Add 300 cu. yds. emb. for approach (lt.)

Nail in 15" elm

Sta. 402+00 to 404+64 - Build 264' std. Type D guard rail.

Sta. 402+78 to 411+02 - Build 824' std. Type D guard rail.

Sta. 386+00 - Place 12"x24" corr. pipe 18' rt. of ℄.

Sta. 393+00 - Place 12"x24" corr. pipe 18' rt. of ℄.

Sta. 397+00 - Place 12"x24" corr. pipe 18' rt. of ℄

Sta. 402+00 - Place 12"x24" corr. pipe 18' rt. of ℄.

Sta. 404+75 - Place 12"x24" corr. pipe 18' lt. of ℄

Hub included in rdwy.

Nail in 10" wild cherry

Sta. 404+10 to 404+60 - Lay 50' of 12" V.S.P. storm sewer. (lft)

Nail in 15" poplar
Δ - 114°04' Lt.
D - 12°20'
T - 716.48
L - 924.80
R - 464.56

Roy Roudebush

Henry W. Permar

Sam Brown

Martha Andrews

Cornith church

Mollie Allison

Sam Weir

Spring - 6' deep

S. 81°47' E.

Present traveled road

P.I. 389+46

P.I. 397+25

P.I. 404+52.52

P.R.C. 406+40.00

P.C. 402+39.74

P.C. 402+00

P.S. P.I. 406+50

P.I. 407+77.5

P.I. 413+56.48

Martha Andrews
Δ - 48°02' Rt.
D - 12°00'
T - 212.78
L - 400.26
R - 477.46

N. Y. C. R. R. Branch

(62) Sta. 385+30 - Build std. 3'x2'x34' concrete box culvert.

(63) Sta. 389+40 - Build std. 3'x2'x34' concrete box culvert.

Sta. 393+50
Top stone at N.E. corner of barn foundation. 50' rt.
El. 1084.10

(64) Sta. 397+50 - Build std. 12"x40' enc. V.S.P. culvert.

(65) Sta. 401+60 - Build std 4'x4'x40' conc. box culvert.

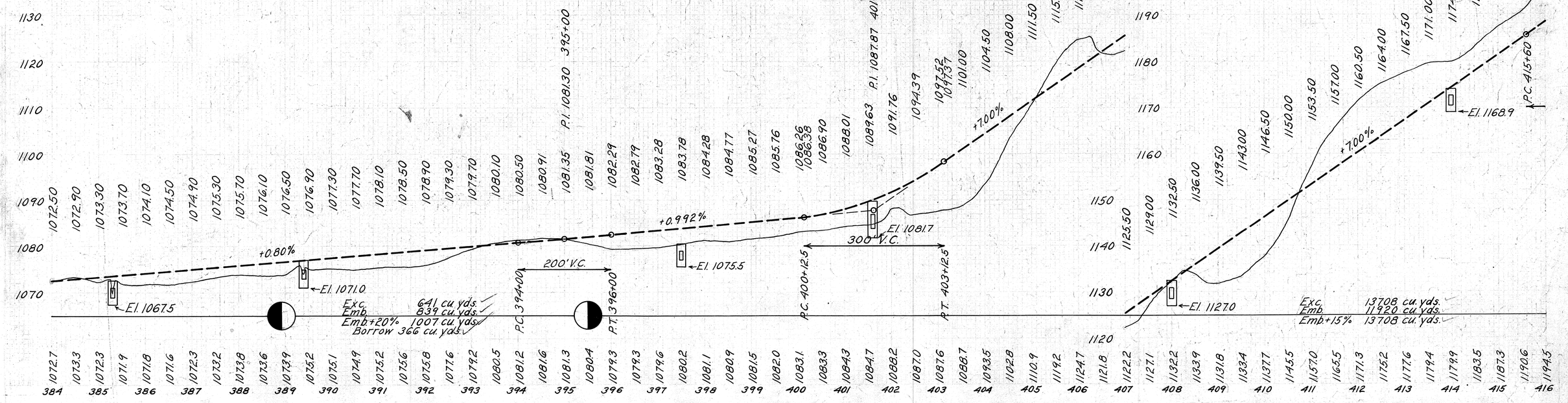
(66) Sta. 408+00 - Build std. 18"x48' hillside culvert.

(67) Sta. 414+00 - Build std. 18"x44' hillside culvert.

Sta. 405+25
Nail in root of 36" white oak. 60 rt.
El. 1104.46

Note: Grade line shown is crown of finished pavement.

LEFT Elev.	LEFT Width	℄ Elev.	Station	RIGHT Width	RIGHT Elev.
1089.11	9.00	1089.26	401+39.74	9.00	1089.11
1090.16		1090.20	+6.74	9.16	1089.24
1091.36		1091.25	+8.74	9.68	1090.91
1092.68		1092.48	402+14.74	10.42	1091.98
1094.15		1093.81	+39.74	11.53	1093.16
1095.75		1095.26	+64.74	12.41	1094.47
1097.46		1096.83	+89.74	12.75	1095.89
1098.15		1097.52	403+00		1096.58
1099.88		1099.25	+25		1098.31
1101.63		1101.00	+50		1100.06
1103.38		1102.75	+75		1101.81
1105.13		1104.50	404+00		1103.56
1106.88		1106.25	+25		1105.31
1108.63		1108.00	+50		1107.06
1110.38		1109.75	+75		1108.81
1112.13		1111.50	405+00		1110.56
1113.88		1113.25	+25		1112.31
1115.63		1115.00	+50		1114.06
1116.68	9.00	1116.05	+65	12.75	1115.11
1118.17	9.16	1117.80	405+90	12.41	1117.13
1119.66	9.65	1119.55	406+15	11.53	1119.15
1121.15	10.46	1121.30	+40	10.42	1121.15
1121.95	11.59	1122.35	+65	9.68	1122.46
1124.13	12.49	1124.80	+90	9.16	1125.17
1125.61	12.83	1126.55	407+15	9.00	1127.18
1126.31		1127.25	+25		1127.88
1128.06		1129.00	+50		1129.63
1129.81		1130.75	+75		1131.38
1131.56		1132.50	408+00		1133.13
1133.31		1134.25	+25		1134.88
1135.06		1136.00	+50		1136.63
1136.81		1137.75	+75		1138.38
1138.56		1139.50	409+00		1140.13
1140.31		1141.25	+25		1141.88
1142.06		1143.00	+50		1143.63
1143.81		1144.75	+75		1145.38
1145.56		1146.50	410+00		1147.13
1147.31		1148.25	+25		1148.88
1149.06		1150.00	+50		1150.63
1150.81	12.83	1151.75	+75	9.00	1152.38
1152.56	12.83	1153.50	411+00	9.00	1154.13
1154.31		1155.25	+25		1155.88
1156.06		1157.00	+50		1157.63
1157.81		1158.75	+75		1159.38
1159.56		1160.50	412+00		1161.13
1161.31		1162.25	+25		1162.88
1163.06		1164.00	+50		1164.63
1164.81		1165.75	+75		1166.38
1166.06		1167.50	413+00		1167.63
1168.31		1169.25	+25		1169.88
1170.06		1171.00	+50		1171.63
1171.81		1172.75	+75		1173.38
1173.56		1174.50	414+00		1175.13
1175.31		1176.25	+25		1176.88
1177.06		1178.00	+50		1178.63
1178.81		1179.75	+75		1180.38
1179.95	12.83	1180.79	+89.85	9.00	1181.42
1181.87	12.49	1182.54	415+14.85	9.26	1182.91
1183.69	11.59	1184.29	+39.85	10.01	1184.40
1185.89	10.46	1186.04	+64.85	11.28	1185.99
1187.91	9.65	1187.75	+89.85	13.06	1187.29



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451 F	1927

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I.C.H. 377 SEC. F-1
CARROLL COUNTY

Martha Andrews

Mary C. Bebout

W. Va. Gas Co.

Deeward Newbolt

W.C. Hull

W. Carson Hull

Hazel & Corrie Clotty

McClelland & Gault

Esther E. Price

Dennis

Mollie Allison

Corinth Presbyterian Church

M.E. Church (Parsonage)

M.E. Church

Mary S. McIntire

F. & H. Shorte

Howard Hardgrove

Mary Dr. Donaldson
Rebecca Hasack
Anna Vantasser
T.C. Blackledge
Henry Penmar

Ellsworth Yoder

JEFFERSON ST.

MADISON ST.

MONROE ST.

Maple

Plum tree

MECHANICSTOWN
(Not incorporated)

End of Project and Sec. F-1
451-F
Sta. 434+00

Cor. of Rch. post
45.76
310
Cor. of house

P.C. 425+50

Δ-13°12' Rt.
D-19°00'
T-34.89'
L-69.47'
R-301.56'

P.I. 416+71.48
Δ-40°50' Rt.
D-20°00'
T-106.63
L-204.16
R-286.48

P.I. 417+69.01
P.T. 417+85.65
P.C. 418+19.65

N. 73°01' E.

N. 63°01' E.

N. 49°59' E.

Δ-15°00' Lt.
D-10°00'
T-75.19
L-150.00
R-572.96

Δ-8°00' Lt
D-4°00'
T-100.04
L-200.00
R-1432.39

Sta. 434+00
N.E. corner of stone threshold of Presbyterian Church.
El. 1210.26

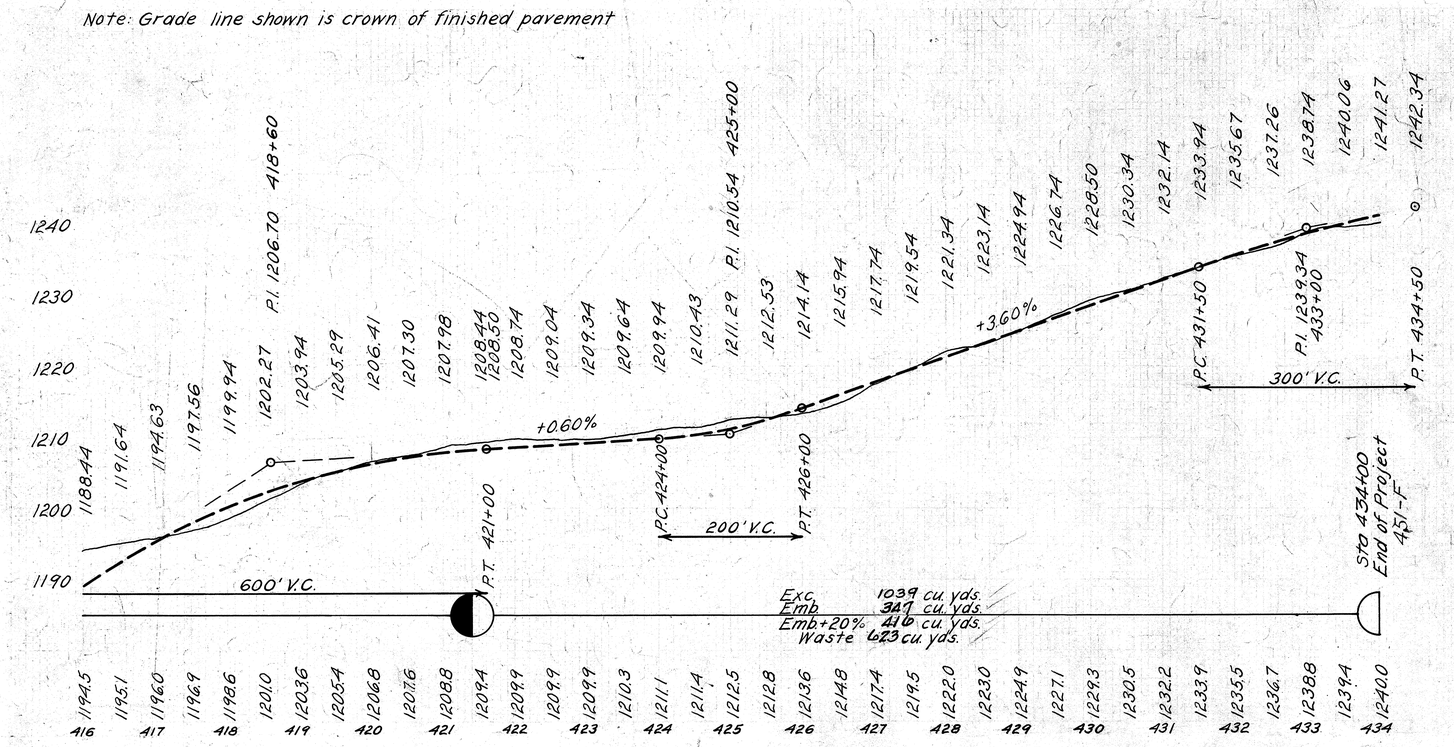
Sta. 434+00
S.E. corner of top of foundation of yellow filling sta. pump.
El. 1242.91

Note:
All buildings on Right of Way to be removed by County Commissioners

Sta. 416+00-Place 12"x24' corr. pipe 18' rt. and lt. of ℄.
Sta. 420+00-Place 12"x24' corr. pipe 18' rt. of ℄

1189.90	9.16	1189.41	416+1485	14.32	1188.61
1191.84	9.00	1191.01	+3985	14.75	1189.89
1192.47		1191.64	+50		1190.52
1194.00		1193.17	+75		1192.05
1195.46		1194.63	417+00		1193.51
1196.54		1195.71	+1901	14.75	1194.59
1197.76		1197.09	+4401	14.32	1196.13
1198.86		1198.40	+6901	13.06	1197.65
1199.93		1199.66	+9401	11.28	1199.10
1200.96		1200.85	418+1901	10.01	1200.44
1202.00		1202.02	+4401	9.26	1201.15
1202.86	9.00	1203.01	+6901	9.00	1202.86

Note: Grade line shown is crown of finished pavement



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451 F	1927

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I.C.H. 377 SEC V
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
5	61	7	123
		7	131
2	80		
		12	121
11	51		
		22	71
13	26		
		23	32
12	9		
		36	10
27	2		
		65	3
43	1		
		107	3
73	2		
		95	4
30	2		

25 20 15 10 5 0 5 10 15 20 25 ℄

1034.57
4+00
1032.2

1037.56
3+50
1035.9

1041.00
3+00
1039.2

1044.5
2+50
1042.5

1048.00
2+00
1046.3

1051.5
1+50
1051.5

1055.00
1+0
1054.5

1058.5
0+50
1058.6

1062.00
0+0
1062.0

Excav. 3911 cu yds
Emb. 3259 " "
Emb+20% 3911 " "

Sta 0+00
Beginning of project
and Sec V

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	354
0	205		
		0	440
0	270		
		0	631
0	412		
1		1	354
1	225		
		1	98
1	152		
		2	149
2	72		

25 20 15 10 5 0 5 10 ℄

1027.27
6+50
1021.0

1027.71
6+00
1020.7

1028.68
5+50
1020.0

1030.12
5+00
1024.2

1030.82
4+86
1027.3

1032.09
4+50
1029.3

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	461 F	1927

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I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		434	0
410	0		
		282	0
350	0		
		209	4
102	4		
		94	156
0	164		
		0	282
0	140		
		0	293
0	177		

30 25 20 15 10 5 0 5 10 15 20 25 30

℄

1032.79
9+20
1039.0

1032.15
9+00
1037.4

1030.55
8+50
1031.5

1029.01
8+00
1024.3

1027.92
7+50
1023.4

1027.34
7+0
1021.8

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		572	0
340	0		
		300 ~~619~~ 310	0
319	0		
		552	0
277	0		
		494	0
256	0		
		526	0
312	0		
		632	0
371	0		

30 25 20 15 10 5 0 5 10

℄

Sta 11+75

1043.65
12+00
1049.6

1041.22
11+50
1045.3

1039.03
11+00
1042.2

1037.07
10+50
1040.3

1035.35
10+00
1039.7

1033.75
9+50
1039.2

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451F	1927

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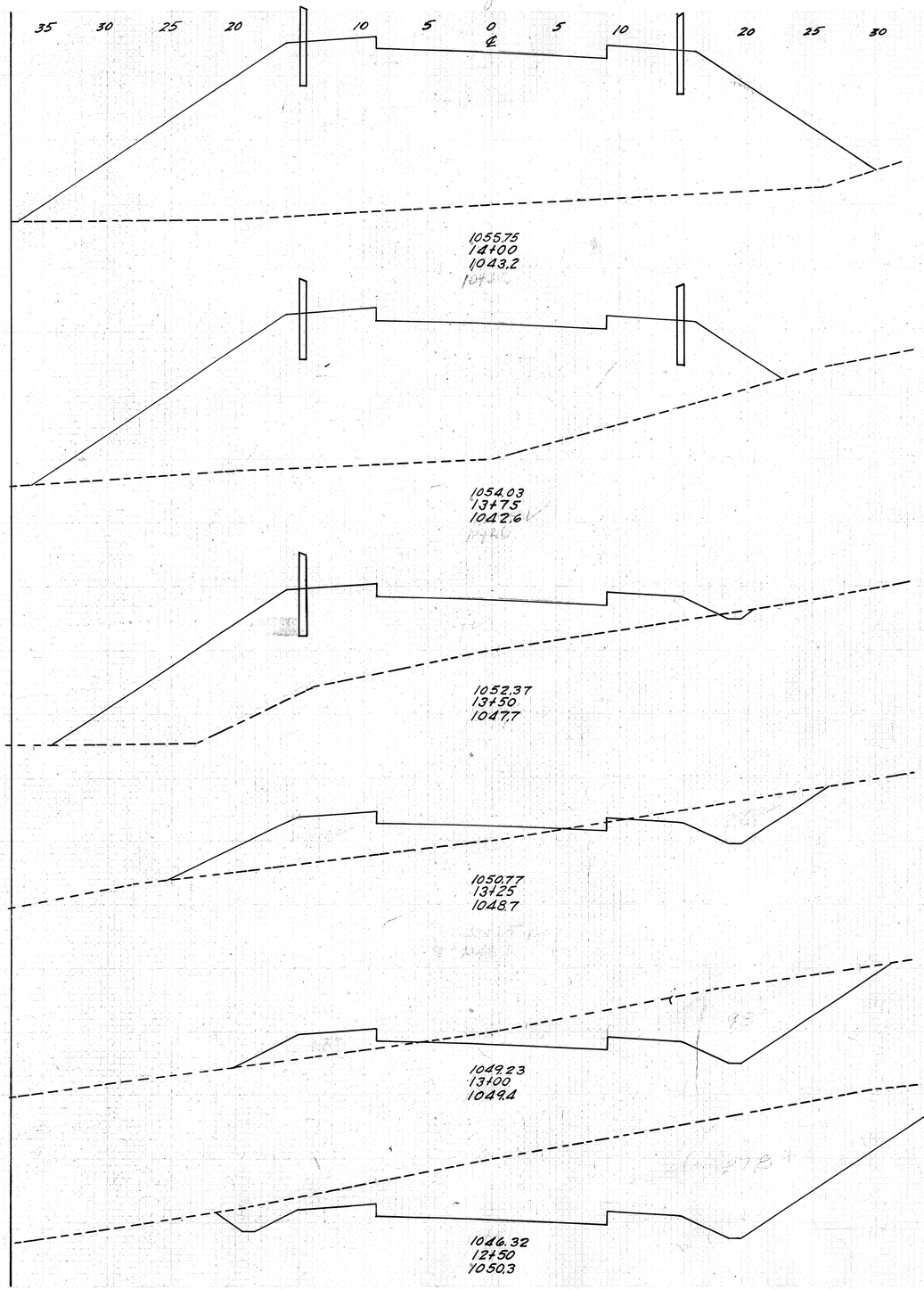
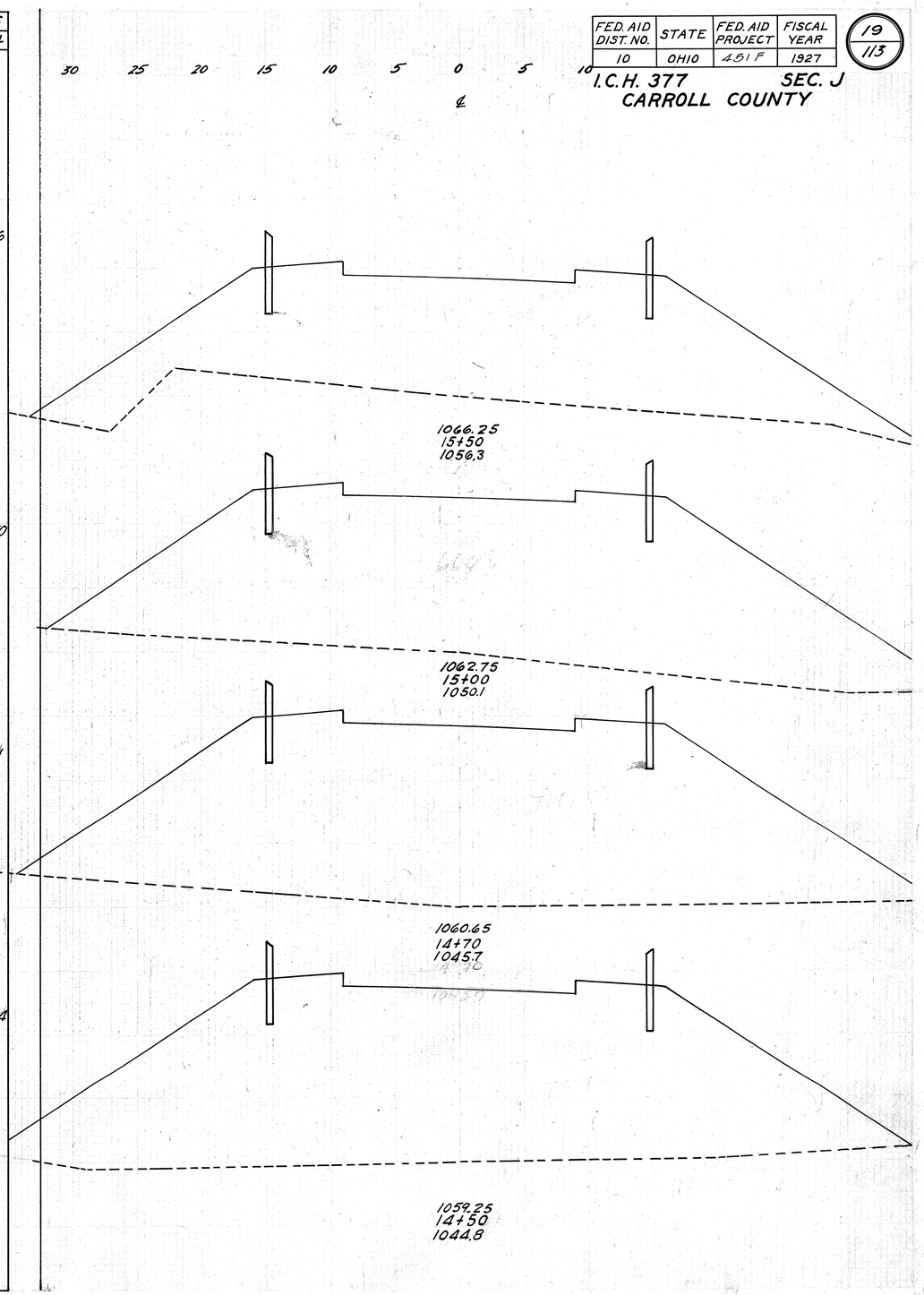
I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	1281
0	629		
		0	509
0	470		
		0	332
0	247		
		113	144
27	63		
		58	37
98	17		
		348	16
278	0		



END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	826
0	492		
		0	1070
0	664		
		0	781
0	721		
		0	554
0	754		



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451 F	1927

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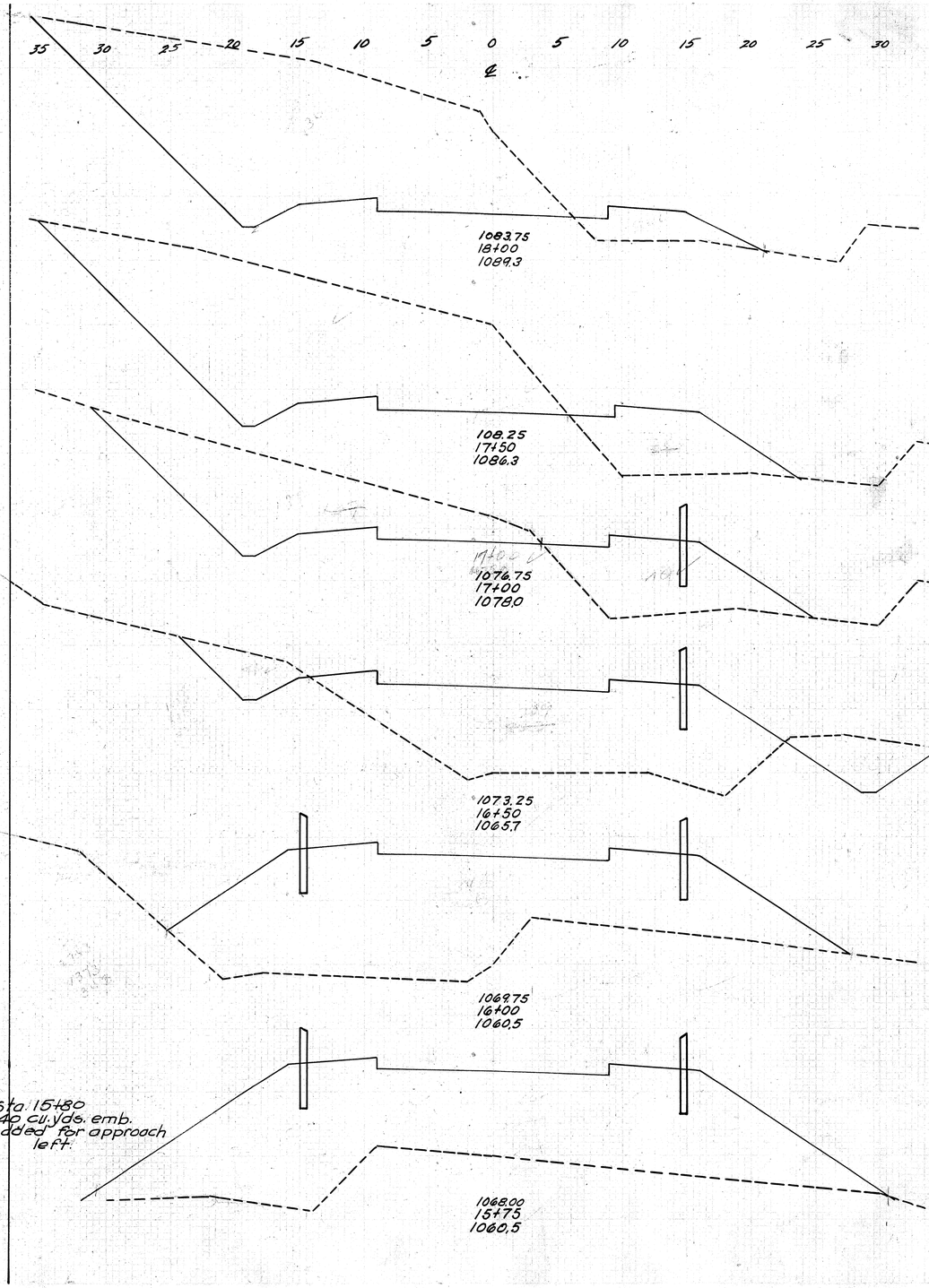
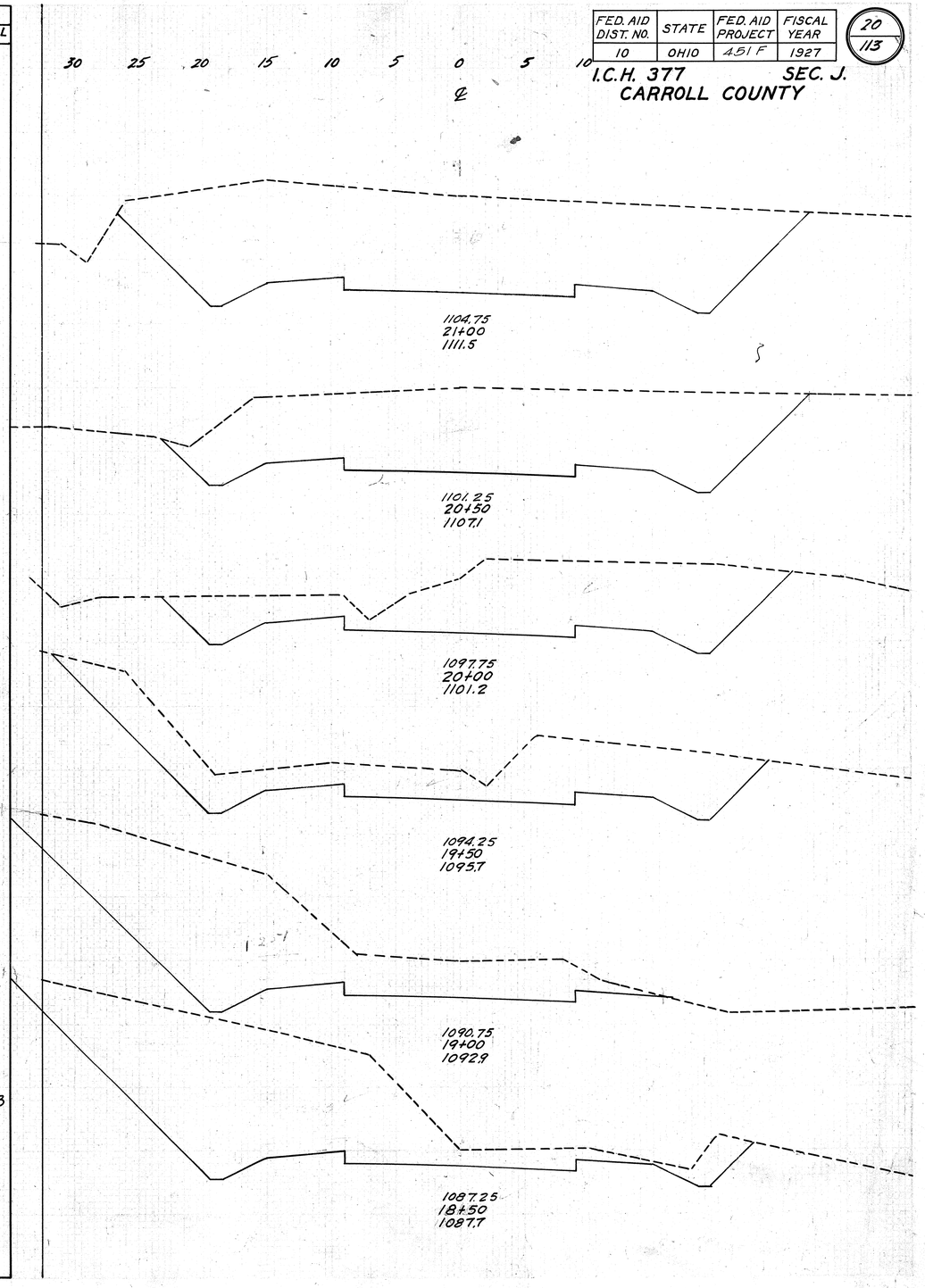
I.C.H. 377 SEC. J.
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
336	25		
		588	77
299	60		
		405	127
138	79		
		175	267
51	209		
		47	514
0	346		
		0	345
		140	
0	400		

Sta. 15+80
140 cu. yds. emb.
added for approach
left.

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		630	0
361	0		
		591	0
277	0		
		431	0
188	0		
		332	0
170	0		
		390	0
251	0		
		504	0
293	0		
		582	23





FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451 F	1927

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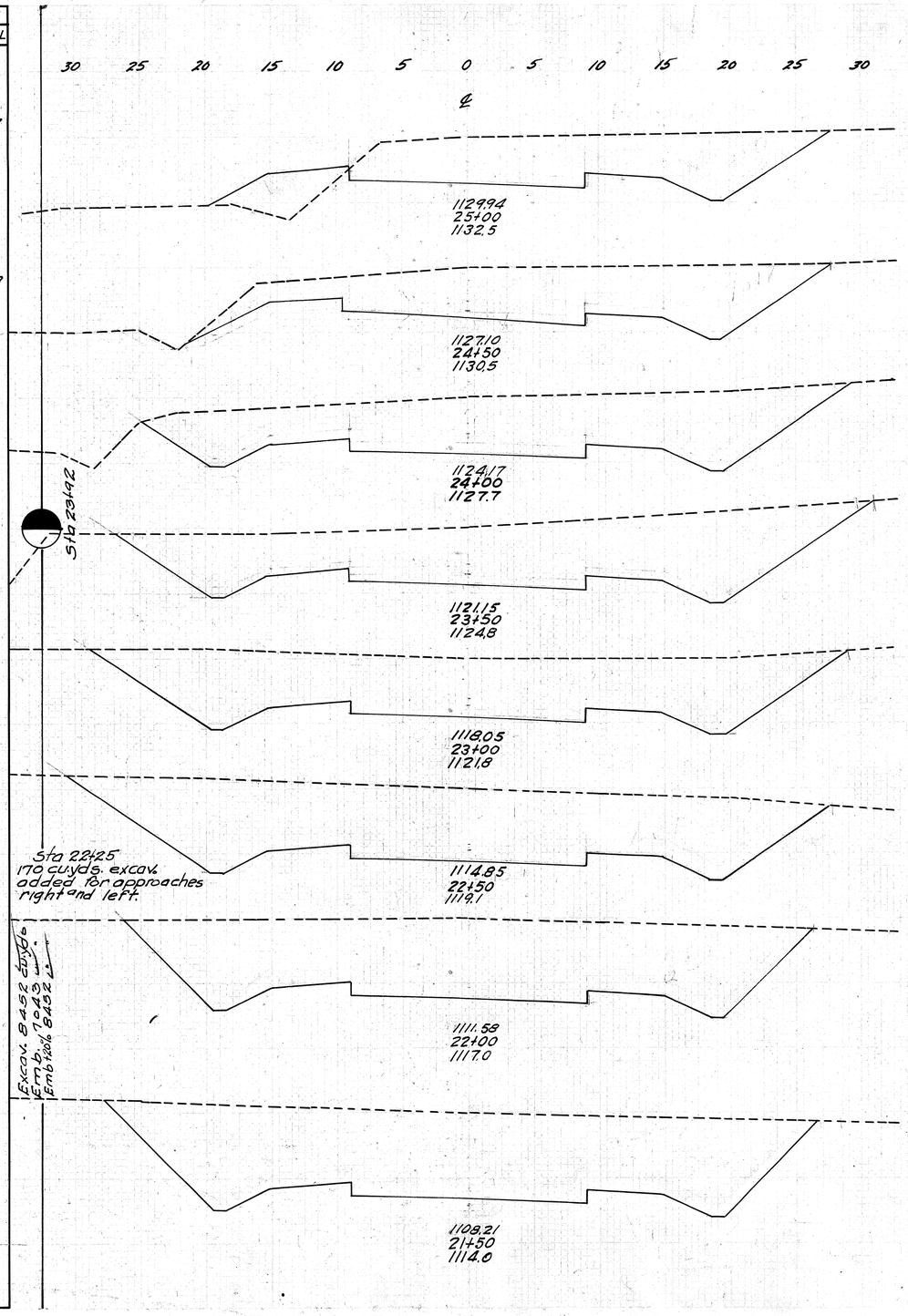
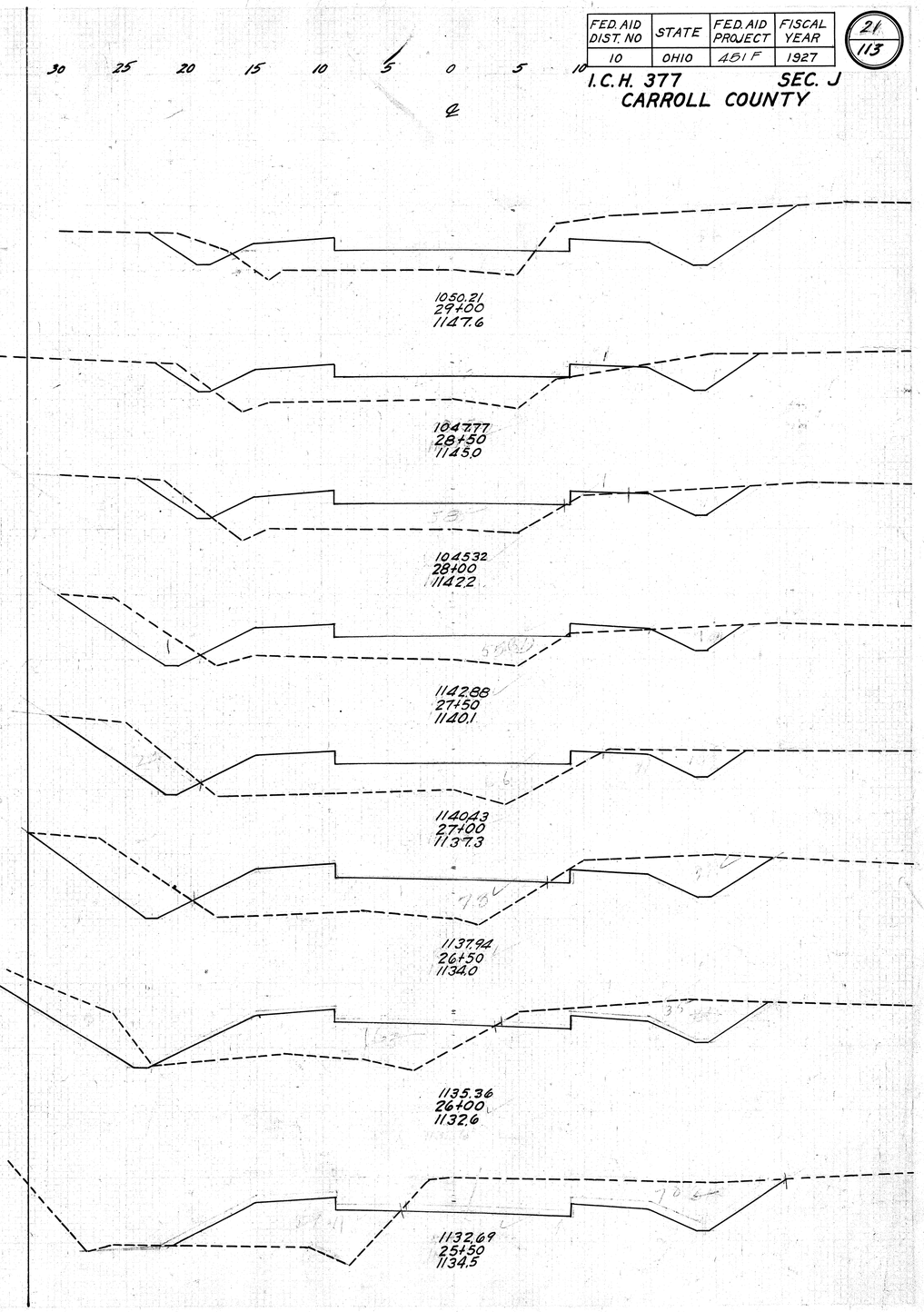
I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		176	64
120	21		
		263	19
164	0		
		335	0
198	0		
		~~402~~ 65 337	0
236	0		
		436	0
235	0		
		478	0
281	0		
		515	0
		170	
275	0		
		550	0
319	0		



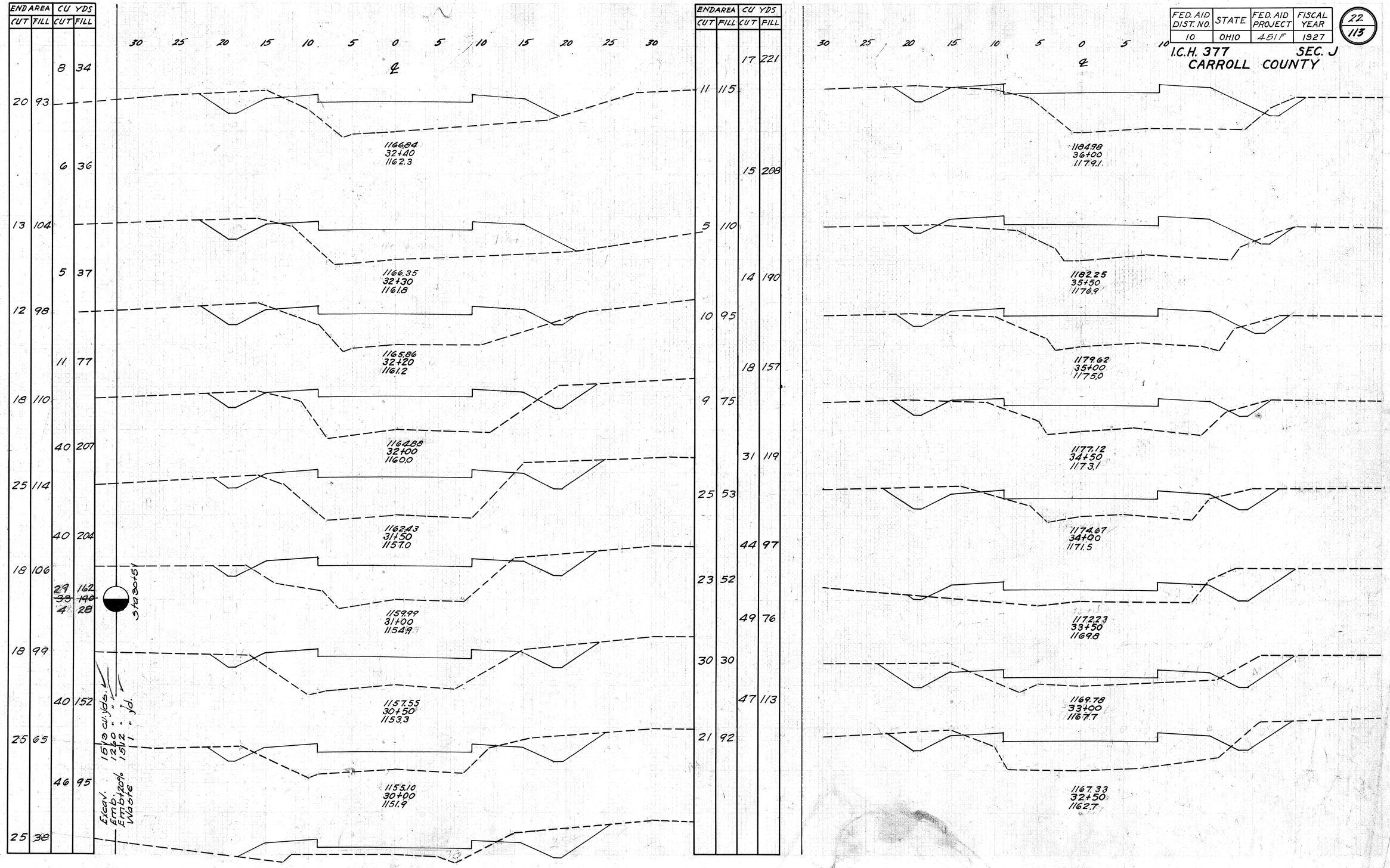
END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		72	74
53	42		
		64	92
16	57		
		27	107
13	58		
		38	101
28	51		
		57	164
34	66		
		84	129
57	73		
		115	129
67	66		
		127	106
70	48		



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451F	1927

22/113

I.C.H. 377 SEC. J
CARROLL COUNTY



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	401 F	1927

23/113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		644	0
326	0		
		547	0
265	0		
		368	0
132	0		
		237	0
124	0		
		157	32
75	40		
		126	98
61	66		
		82	164
28	111		
		32	218
7	124		

20 15 10 5 0 5 10 15 20 25 30

1207.62 39+92.5 1214.4

1205.07 39+42.6 1211.6

1202.41 38+92.6 1206.2

1199.57 38+42.5 1204.0

1197.03 38+00 1197.2

1193.90 37+50 1189.5

1190.81 37+00 1185.2

1187.84 36+50 1181.5

Excav. 1940 cu.yds.
Emb. 2450 " "
Embiz0% 2440 " "

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	535
0	319		
		1	376
1	87		
		107	86
114	6		
		305	6
215	0		
		444	0
265	0		
		132 ~~505~~ 373	0
280	0		

Excav. 4939 cu.yds.
Emb. 3616 " "
Embiz0% 4339 " "

Sta 40+87

30 25 20 15 10 5 0 5 10

1219.09 43+00 1212.7

1217.66 42+50 1215.8

1216.06 42+00 1217.7

1214.28 41+50 1217.2

1212.33 41+00 1216.3

1210.21 40+50 1215.9

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451F	1927

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113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		14	9
9	38		
		8	313
0	300		
		0	314
0	379		
		0	362
0	402		
		0	794
0	455		
		0	818
0	428		

25 20 15 10 5 0 5 10 15 20 25 30

℄

1223.02
45+38.75
1229.3

1222.86
44+88.75
1215.8

1222.59
44+63.75
1213.2

1222.23
44+38.75
1212.4

1221.21
43+88.75
1212.4

1220.08
43+38.75
1213.9

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		688	0
716	0		
		636	0
657	0		
		551	0
532	0		
		423	0
382	0		
		279	0
220	0		
		129	3
58	6		

30 25 20 15 10 5 0 5 10

℄

1221.79
46+75
1234.2

1222.25
46+50
1233.2

1222.61
46+25
1232.1

1222.87
46+00
1230.0

1223.04
45+75
1227.0

1223.11
45+50
1223.8

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451 F	1927

25
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		734	0
638	0		
		664	0
796	0		
		771	0
870	0		
		782	0
820	0		
		748	0
796	0		
		103	
		726	0
		622	
770	0		

30 25 20 15 10 5 0 ℄ 5 10 15 20 25 30

1217.00
48+25
1229.0

1218.04
48+00
1232.0

1218.98
47+75
1232.8

1219.84
47+50
1233.6

1220.57
47+25
1234.2

1221.24
47+00
1234.6

STATION

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
210	0	80	0
		199	0
220	0		
		197	0
205	0		
		222	0
275	0		
		247	0
259	0		
		254	0
282	0		
		301	0
360	0		
		420	0
547	0		

30 25 20 15 10 5 0 ℄ 5 10

1205.25
50+25
1204.7

1207.0
50+00
1207.2

1208.71
49+75
1219.3

1210.34
49+50
1214.8

1211.86
49+25
1217.1

1213.29
49+00
1218.3

1214.63
48+75
1220.4

1215.86
48+50
1225.1

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451F	1927

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I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		4	65
8	52		
		7	48
8	52		
		9	45
11	45		
		13	40
16	42		
		20	37
28	38		
		24	40
23	49		
		32	34
47	25		
		46	20
53	18		
		35	6
109	3		
		119	1
148	0		

25 20 15 10 5 0 5 10 15 20 25 30 35

1187.75
52+75
1186.7

1189.50
52+50
1189.5

1191.25
52+25
1191.80

1193.03
51+99.58
1193.4

1194.75
51+75
1195.6

1196.50
51+50
1196.2

1198.25
51+25
1199.4

1200.00
51+00
1200.9

1201.75
50+75
1200.4

1203.50
50+50
1202.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	593
0	310		
		0	257
0	246		
		0	216
0	221		
		0	195
0	200		
		0	169
0	164		
		0	134
0	125		
		0	100
0	92		
		0	83
0	87		
		0	82
0	89		

35 30 25 20 15 10 5 0 5 10

1172.00
55+00
1165.1

1173.75
54+75
1167.5

1175.50
54+50
1169.2

1177.25
54+25
1171.7

1179.00
54+00
1174.3

1180.75
53+75
1177.1

1182.50
53+50
1179.9

1184.25
53+25
1182.6

1186.00
53+00
1184.6

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

27
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
32	59		
		72	115
39	54		
		50	125
15	81		
		14	183
0	117		
		0	302
0	209		
		0	403
0	275		
		50	
		0	513
0	279		
		0	519
		45	
0	282		
		0	567
0	330		

15 10 5 0 5 10 15 20 25 30

℄

1162.50
59+50
1159.7

1160.72
58+94.89
1157.6

1159.85
58+44.89
1155.8

1159.60
57+94.89
1155.00

1160.06
57+44.89
1154.50

1161.10
57+00
1155.06

Sta 56+50
50 cu.yds. emb.
added for
approach
left

1162.88
56+50
1155.36

Sta 56+00
45 cu.yds emb.
added for
approach
right.

1165.34
56+00
1158.50

1168.50
55+50
1161.3

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		110	5
75	0		
		57	0
129	0		
		69	0
119	0		
		156	13
49	14		
		55	69
10	61		
		13	121
4	70		
		11	122
8	62		
		22	121
16	69		
		34	123
21	64		
		49	114

Excav 6844 cu.yds
Emb 5703 " "
Emb+20 6844 " "

30 25 20 15 10 5 0 5 10

℄

1169.05
63+50
1169.00

1169.12
63+15
1169.9

1169.15
63+00
1169.6

1169.25
62+50
1169.6

1168.78
62+00
1166.00

1168.16
61+50
1165.4

1167.21
61+00
1164.4

1165.93
60+50
1163.1

1164.36
60+00
1161.6

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		94	28
57	12		
		95	18
46	7		
		74	18
34	12		
		53	44
23	33		
		37	42
17	12		
		27	25
12	15		
		30	26
20	13		
		0	0
		~~44~~	~~18~~
		44	18
26	6		
		57	10
35	5		

20 15 10 5 0 5 10

℄

1168.15
68+00
1167.7

1168.25
67+50
1167.9

1168.35
67+00
1167.6

1168.45
66+50
1167.7

1168.55
66+00
1167.8

1168.65
65+50
1167.9

1168.75
65+00
1168.0

Sta 65+00

1168.85
64+50
1168.4

1168.95
64+00
1168.6

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		545	43
240	18		
		381	31
171	15		
		290	15
141	1		
		234	4
112	3		
		158	13
59	11		
		90	31
38	22		
		80	37
45	18		

35 30 25 20 15 10 5 0 5 10

℄

1160.80
71+50
1164.5

1163.20
71+00
1161.7

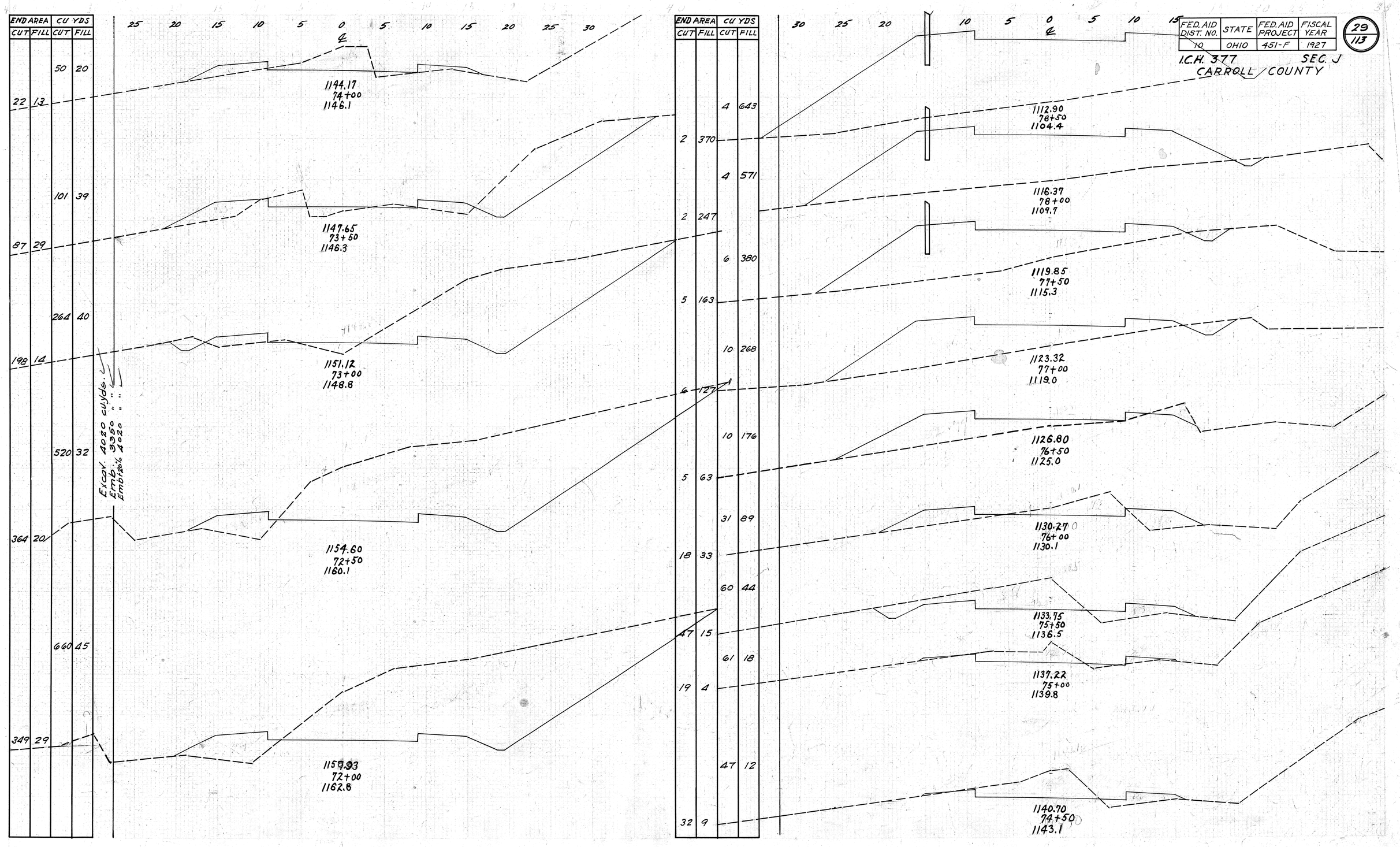
1165.10
70+50
1166.1

1166.53
70+00
1167.6

1167.47
69+50
1167.7

1167.93
69+00
1167.5

1168.05
68+50
1167.5



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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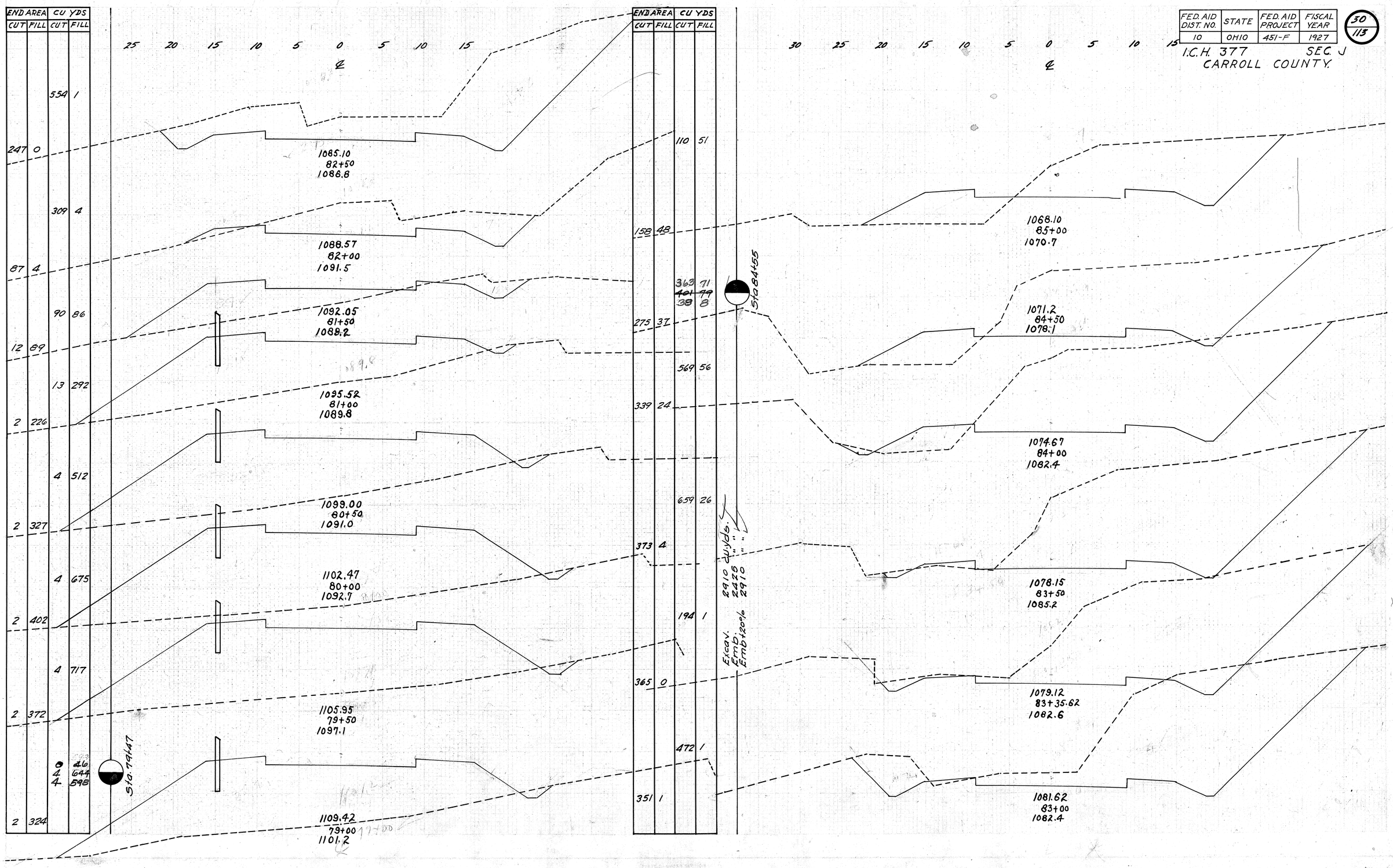
I.C.H. 377 SEC. J

CARROLL COUNTY



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

30/113

I.C.H. 377 SEC. J
CARROLL COUNTY.

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
108	25		
		123	66
37	53		
		40	132
6	90		
		6	179
0	103		53
		0	181
0	175		
			50
		0	182
0	109		
		17	164
18	68		
		45	60
79	62		

5 0 5 10 15 20 25 30 ℄

1067.30
88+45.7
1065.6

1065.32
88+00
1062.9

Sta 87+60
50 cu. yds emb.
added for approach
left.

1063.83
87+50
1061.1

1063.23
87+00
1059.5

1063.17
86+66
1055.9

Sta. 86+00
50 cu. yds. emb
added for approach
right

1063.32
86+50
1055.6

1474 cu. yds
1228 " "
1474 " "
Excav.
Emb.
Emb. +20%

1064.15
86+00
1060.4

1065.76
85+50
1062.4

1066.84
85+25
1065.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		741	0
869	0		
		985	0
884	0		
		815	0
927	0		
		1381	0
565	0		
		272	5
		~~733~~	~~6~~
		461	1
226	6		
		309	38

Sta 89+27

30 25 20 15 10 5 0 5 10 15 ℄

1077.54
90+50
1087.0

1076.59
90+20.7
1084.7

1075.60
89+95.7
1084.3

1073.17
89+45.7
1079.5

1070.15
88+95.7
1069.8

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	461-F	1927

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I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		4	289
2	172		
		4	345
2	201		
		6	328
4	153		
		33	200
32	63		
		170	80
152	20		
		551	19
113	0		
		534	0
711	0		

30 25 20 15 10 5 0 5 10 15 20 25 30

1075.51
93+50
1071.2

1077.13
93+00
1072.1

1078.44
92+50
1074.6

1079.14
92+00
1077.8

1079.22
91+50
1081.0

1078.69
91+00
1085.3

1078.19
90+75
1087.9

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		4	295
2	189		
		4	360
2	200		
		4	342
2	169		
		4	299
2	154		
		4	280
2	149		
		4	252
2	123		
		4	243
2	140		

Excav. 5553 cu.yds.
Emb. 4628 " "
Emb. 120% 5554 " "
Borrow 1 cu.yd.

35 30 25 20 15 10 5 0 5 10

1064.79
97+00
1060.2

1065.95
96+50
1061.4

1067.41
96+00
1063.4

1069.03
95+50
1065.3

1070.65
95+00
1066.9

1072.27
94+50
1067.0

1073.89
94+00
1070.4

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

33
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		159	0
209	0		
		245	0
198	0		
		290	7
115	7		
		144	35
41	31		
		45	103
8	80		
		8	80
		4	162
2	95	9	162
		5	169
3	88		
		4	185
1	112		
		3	239
2	147		
		4	276
2	151		
		4	260
2	130		

20 15 10 5 0 5 10 15 20 25 30 35

Sta 100+50

1064.96
102+32.9
1069.1

1064.80
102+00
1068.0

1064.55
101+50
1066.2

1064.30
101+00
1063.6

1064.05
100+50
1061.7

1063.80
100+00
1061.0

1063.55
99+50
1060.9

1063.30
99+00
1060.4

1063.21
98+50
1059.2

1063.42
98+00
1059.4

1063.95
97+50
1060.5

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	137
0	73		
		17	116
18	52		
		83	100
72	56		
		55	35
91	53		
		118	37
160	26		
		199	12
259	0		
		270	0
308	1		
		213	1
144	1		
		130	0
135	0		

30 25 20 15 10 5 0 5 10 15

℄

1066.30
105+00
1068.30

1066.05
104+50
1063.5

1065.80
104+00
1062.1

1065.71
103+82.9
1063.6

1065.59
103+75.79
1066.5

1065.46
103+32.9
1065.9

1065.34
103+07.9
1071.0

1065.21
102+82.9
1065.8

1065.09
102+57.9
1070.0

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451 F	1927

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113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
			131 93
13	81		
		3	50
		~~14~~	~~154~~
		11	101
8	32		
		8	170
0	102		
		0	214
0	129		
		0	102
0	146		
		0	160
0	141		
		0	121
0	120		
		0	22
0	123		
		0	183
0	75		

25 20 15 10 5 0 5 10 15 20 25 30 35

℄

Sta 108+30

1069.25
108+50
1066.4

1068.60
108+00
1064.8

1068.00
107+50
1064.4

1067.50
107+00
1063.4

1067.33
106+80
1063.1

1067.10
106+50
1063.2

1066.93
106+25
1062.8

1066.80
106+00
1062.6

1066.55
105+50
1063.8

1987 cu.yds. Excav.
1466 cu.yds. Emb.
1981 cu.yds. Emb. 120%

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		20	251
2	156		
		4	274
2	140		
		4	228
2	106		
		3	66
		9	219
		6	153
8	130		
		28	187
22	72		
		86	105
71	41		
		162	67
104	31		
		215	42
128	14		
		238	31
129	19		

30 25 20 15 10 5 0 5 10

℄

Sta 111+85

1075.1
113+00
1070.3

1074.45
112+50
1070.1

1073.80
112+00
1069.8

1073.15
111+50
1069.4

1072.50
111+00
1069.1

1071.85
110+50
1070.3

1071.20
110+00
1070.9

1070.55
109+50
1071.3

1069.90
109+00
1069.8

Excav. 874 cu.yds.
Emb. 728 " "
Emb. 120% 874

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	461-F	1927

35/113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		134	211
95	90		
		252	101
177	19		
		354	18
205	0		
		356	0
180	0		
		292	24
135	26		
		108	36
60	39		
		48	30
72	41		
		93	93
29	60		
		45	162
20	115		

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		696	0
344	0		
		522	0
		535	13
234	0		
		324	10
116	11		
		180	70
78	65		
		127	163
59	111		
		25	21
		115	193
65	97		
		106	218
50	138		

25 20 15 10 5 0 5 10 15 20 ℄

1080.30 / 117+00 / 1079.8
1079.65 / 118+50 / 1081.8
1079.00 / 116+00 / 1082.1
1078.35 / 115+50 / 1080.6
1077.70 / 115+00 / 1079.4
1077.31 / 114+70 / 1076.0
1077.05 / 114+50 / 1076.7
1076.40 / 114+00 / 1074.0
1075.75 / 113+50 / 1072.5

30 25 20 15 10 5 0 5 10 15 ℄

Sta 120+01

1084.85 / 120+50 / 1090.4
1084.20 / 120+00 / 1087.9
1083.55 / 119+50 / 1084.6
1082.90 / 119+00 / 1081.4
1082.25 / 118+50 / 1079.7
1081.60 / 118+00 / 1080.5
1080.95 / 117+50 / 1077.2

Excav. 2609 cu.yds.
Emb. " 2149 " "
Emb 120% " 2603 " "

Sta 118+50
25 cuyds excav'd
21 cuyds emb.
added for public
road approach

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

36/113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		219	282
146	159		
		507	162
403	16		
		810	15
472	0		
		815	0
408	0		

25 20 15 10 5 0 5 10 15 20 25 30

℄

1086.94
122+50
1081.5

1086.57
122+00
1094.7

1086.09
121+50
1094.2

1085.50
121+00
1092.2

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		1	123
0	47		
		0	95
0	56		
		0	177
0	135		
		0	332
0	224		
		0	380
0	186		
		19	357
21	191		
		103	320
91	146		

30 25 20 15 10 5 0 5 10 15

℄

1088.40
126+00
1086.1

1088.20
125+50
1086.0

1088.00
125+00
1084.2

1087.80
124+50
1082.4

1087.6
124+00
1082.1

1087.40
123+50
1080.6

1087.20
123+00
1082.5

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451·F	1927

37/113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		27	37
48	38		
		42	47
28	46		
		44	122
19	86		
		17	157
10	83		
		14	164
6	94		
		6	218
1	141		
		2	153
		3	268
		1	115
2	148		
		3	280
1	154		
		2	254
1	120		
		2	191
1	86		

Sta 128+20

Excav. 3700 cuyds.
Emb 3083 " "
Emb 120% 3700 " "

1092.27
130+80
1090.6

1091.55
130+50
1088.8

1090.60
130+00
1087.4

1089.95
129+50
1086.7

1089.60
129+00
1086.4

1089.40
128+50
1084.7

1089.20
128+00
1084.3

1089.00
127+50
1084.1

1088.80
127+00
1084.9

1088.60
126+50
1085.4

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		77	17
38	19		
		117	33
88	17		
		126	65
48	53		
		81	70
41	24		
		68	65
31	45		
		57	120
31	85		
		51	135
24	61		

Excav. 1688 cuyds.
Emb. 1407 " "
Emb 120% 1688 " "

1101.20
134+00
1099.8

1099.80
133+50
1098.7

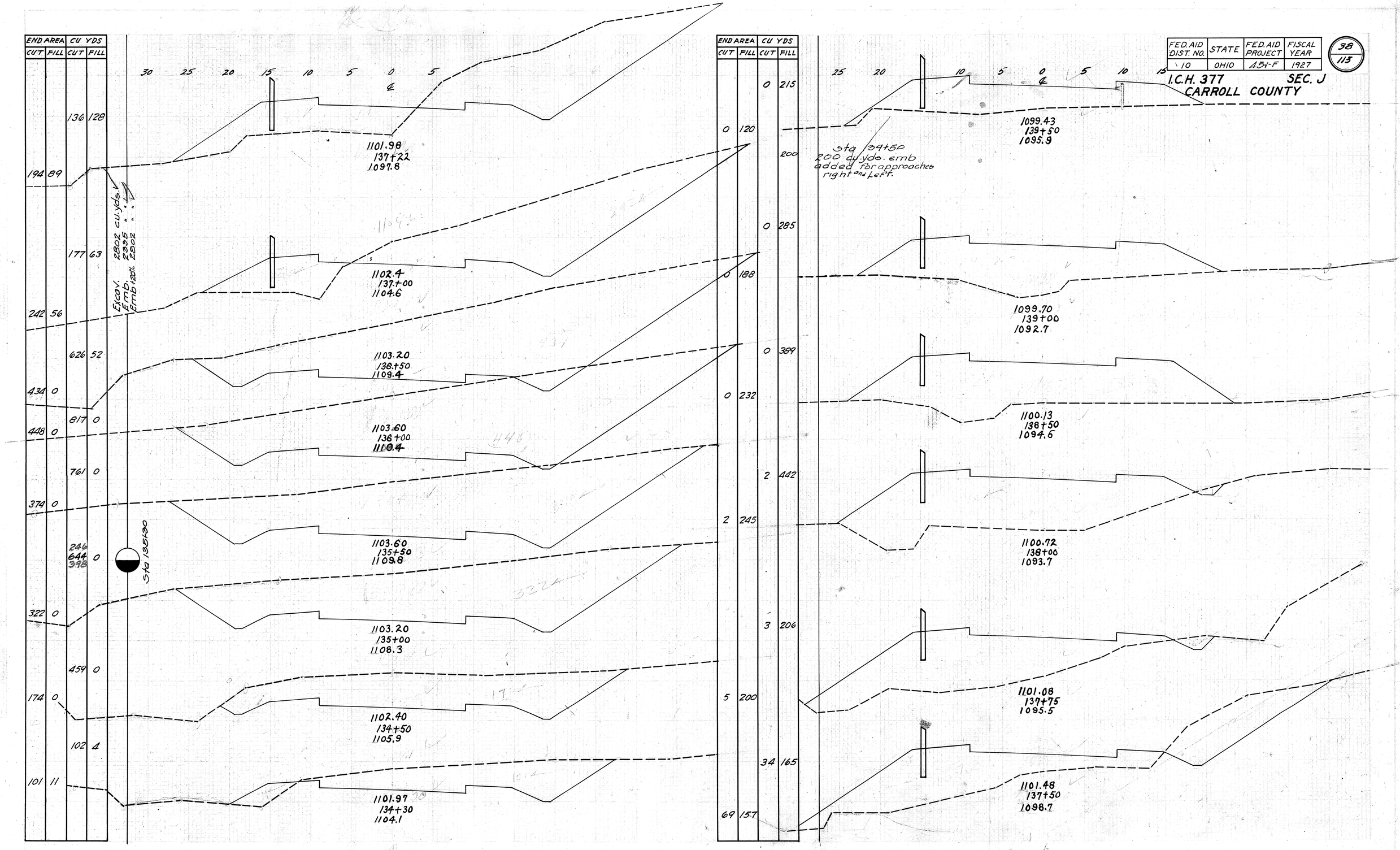
1098.40
133+00
1097.8

1097.00
132+50
1096.4

1095.60
132+00
1094.1

1094.20
131+50
1091.40

1092.80
131+00
1090.2



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

38
113

I.C.H. 377 SEC. J
CARROLL COUNTY

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

39
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		46	168
20	90		
		26	185
8	110		
		8	198
0	102		
		3	185
3	96		
		3	186
0	105		
		0	194
0	104		
		0	194
0	106		
		12	202
0	112	0	190

25 20 15 10 5 0 ℄ 5 10 15 20 25

1103.77
143+50
1100.4

1102.3
143+00
1098.1

1101.17
142+50
1097.4

1100.37
142+00
1096.9

1099.90
141+50
1096.3

1099.6
141+00
1095.9

1099.38
140+50
1096.1

1099.32
140+00
1095.7

Excav. 1817 cuyds.
Emb. 1512 " "
Emb 120% 1814 " "
Waste 3 " "

Sta 140+47

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
			107 1
148	0		
		130	0
202	0		
		121	
		267	
		146	
278	0		
		522	0
286	0		
		459	0
210	0		
		317	2
132	0		
		191	53
74	55		
		96	135
30	91		

Excav. 587 cuyds.
Emb. 484 " "
Emb 120% 581 " "

25 20 15 10 5 0 ℄ 5 10 15 20 25

1116.70
147+00
1118.1

1116.15
146+80
1119.3

Sta 146+66

1115.30
146+50
1118.9

1113.70
146+00
1117.6

1111.90
145+50
1114.8

1109.90
145+00
1111.3

1107.70
144+50
1107.2

1105.57
144+00
1102.2

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		45	54
12	97		
		6	180
0	291		
		0	269
0	335		
		0	251
			327
			76
0	372		
		0	216
0	211		
		3	146
5	52		
		94	48
97	0		
		132	2
140	3		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1121.75
749+25
1118.2

1121.20
149+00
1112.8

1120.65
148+75
1112.7

Sta 148+80

1120.10
148+50
1111.0

1119.66
148+30
1114.2

1119.00
148+00
1116.6

1117.90
147+50
1118.8

1117.24
147+20
1118.3

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		118	11
51	6		
		97	11
54	6		
		98	11
52	6		
		137	6
96	0		
		20	
		178	0
		158	
96	0		
		204	0
125	0		
		287	0
184	0		
		250	18
86	19		

Sta 151+47

Exc. V. 950 cu yds
Emb. 792 " "
Emb. 120% 950

25 20 15 10 5 0 ℄ 5 10 15 20 25

1125.97
153+00
1126.0

1126.10
152+50
1126.0

1126.01
152+00
1126.1

1125.69
151+50
1126.5

1125.15
151+00
1125.8

1124.39
150+50
1125.2

1123.40
150+00
1125.4

1122.30
149+50
1121.8

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		69	91
141			
		124	0
129			
		139	7
8	25		
		104	7
86			
		206	0
156			
		285	0
152			
		236	0
103			
		157	5
66	1		

Excav. 1797 cu.yds.
Emb. 20% 1496 " "
Waste 1796 " "

25 20 15 10 5 0 ℄ 5 10 15 20 25

1121.58
156+50
1124.4

1121.93
156+25
1124.4

1122.27
156+00
1121.5

1122.96
155+50
1124.2

1123.60
155+03.76
1226.1

1124.30
154+53.78
1127.0

1124.99
154+03.76
1126.0

1125.58
153+53.76
1125.9

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		60	36
74	75		
		69	331
0	282		
		0	586
0	350		
		0	608
0	307		
		0	589
0	329		
		0	600
0	319		
		3	551
3	276		
		4	219
6	196		

Sta 157+98

25 20 15 10 5 0 ℄ 5 10 15 20 25

1129.05
160+00
1128.3

1126.59
159+50
1120.2

1124.59
159+00
1117.1

1123.05
158+50
1116.3

1121.98
158+00
1114.3

1121.38
157+50
1115.2

1121.25
157+00
1114.8

1121.36
156+75
1115.2

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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I.C.H. 377 SEC. J

CARROLL COUNTY

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		338	76
156	23		
		291	48
165	29		
		151	29
174	33		
		141	32
132	37		
		19	55
124	34		
		79	35
46	41		
		100	
90	43		
105	32		

25 20 15 10 5 0 5 10 15 20 25

℄

1141.13
162+00
1140.2

1138.08
161+50
1136.7

1136.55
161+25
1137.9

1135.02
161+00
1134.3

1133.50
160+75
1133.6

1131.97
160+50
1131.2

5 to 160+50
100 cu.yds emb.
added for public
road approach
Right

1130.06
160+18
1130.8

End Area CUT	End Area FILL	Cu. Yds CUT	Cu. Yds FILL
		71	93
37	64		
		93	98
62	42		
		171	56
123	18		
		300	17
201	0		
		309	0
178	0		
		296	0
142	0		
		262	0
141	0		
		255	39
176	0		

30 25 20 15 10 5 0 5 10 15 20 25

℄

1156.67
166+00
1155.8

1155.70
165+50
1155.6

1154.80
165+00
1155.4

1153.40
164+50
1155.1

1151.88
164+13.2
1152.9

1149.87
163+63.2
1150.6

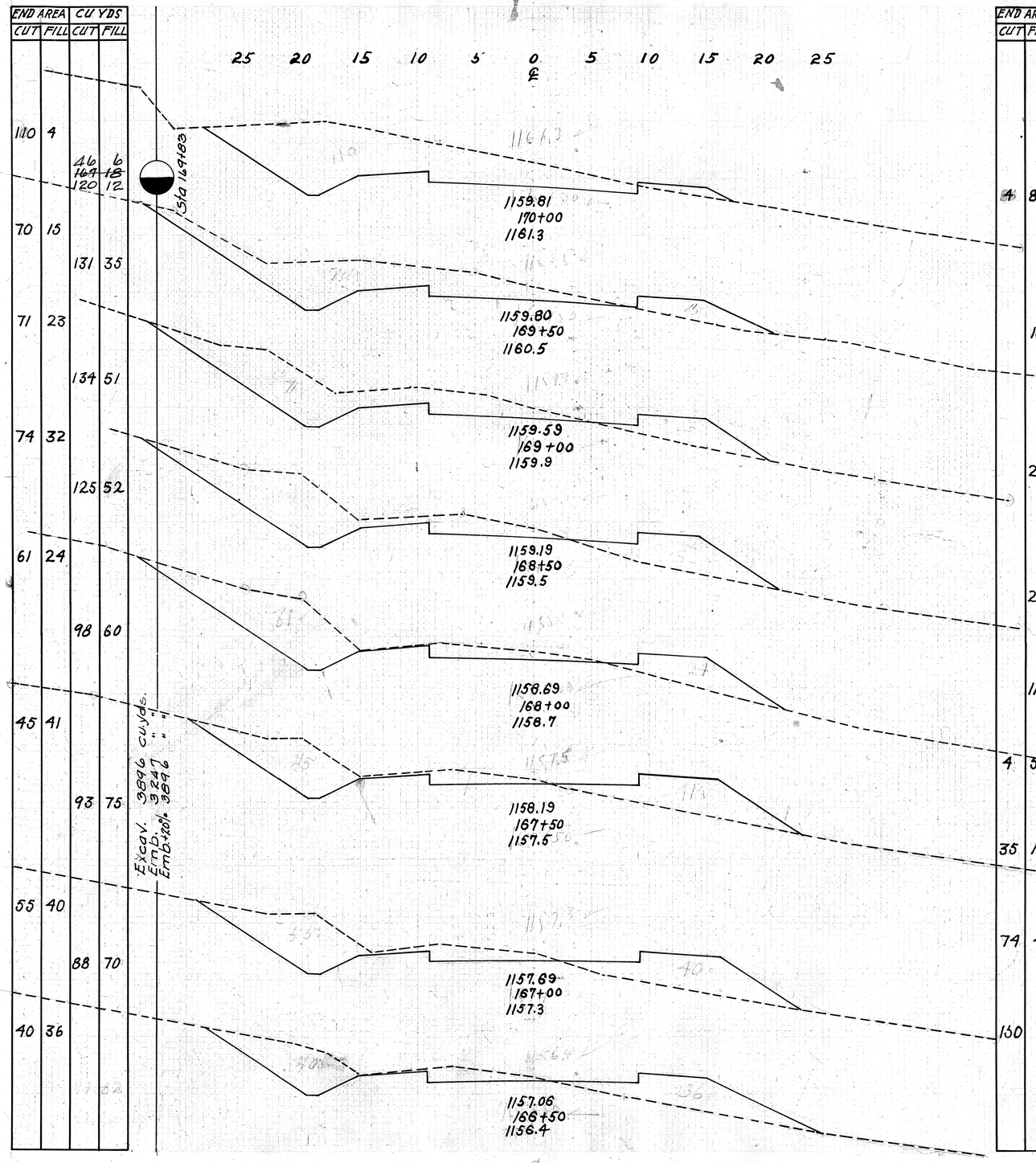
1147.60
163+13.2
1149.6

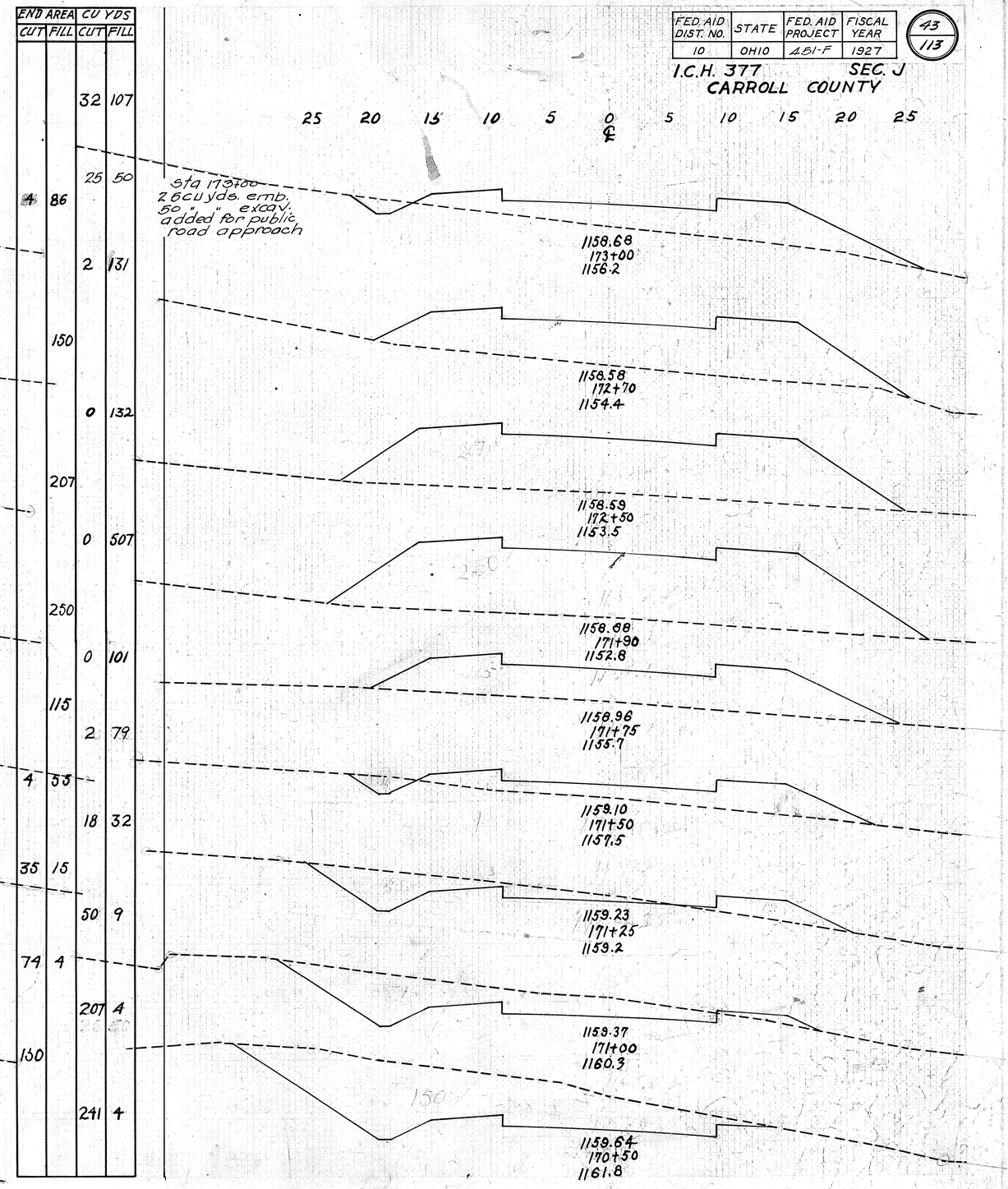
1144.90
162+63.2
1144.8

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

43/113

I.C.H. 377 SEC. J
CARROLL COUNTY





FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
16	39		
		103	36
95			
		178	0
		211	
		33	
133			
		245	0
132			
		222	0
108			
		167	8
72	9		
		118	25
55	18		
		79	44
30	30		

25 20 15 10 5 0 5 10 15 20 25

1168.50
177+00
1166.5

1167.00
176+50
1167.8

Sta. 176+08

1165.50
176+00
1167.2

1164.00
175+50
1165.6

1162.50
175+00

EXCAV. 1487 cu.yds.
EMB. 1239 " "
EMB. adj. 1487

1161.04
174+50
1161.8

1159.90
174+00
1160.1

1159.11
173+50
1158.2

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
35	88		
		60	148
32	72		
		59	139
			100
32	78		
		17	94
4	124		
		2	156
		214	
		0	291
		235	
		0	115
		180	
		0	133
		108	
		7	68

25 20 15 10 5 0 5 10

1176.00
179+50
1174.3

Sta 178+50
100 cu.yds. added
for road approach

1174.50
179+00
1173.1

1173.00
178+50
1168.9

1172.25
178+25
1167.3

1171.50
178+00
1165.2

1170.45
177+65
1163.3

1170.00
177+50
1164.5

1169.25
177+25
1165.1

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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113

I.C.H. 377 SEC J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
69	35		
		153	78
96	49		
		243	84
167	42		
		323	59
182	22		
		297	52
139	34		
		195	90
72	63		
		97	140
8	25		
		18	16
5	71		
		8	61
7	61		
		4	39
11	88		
		17	138
18	74		
		27	150
45	42		
		58	107
		106	71

30 25 20 15 10 5 0 ℄ 5 10 15 20 25

1183.41
182+50
1182.6

1182.80
182+00
1180.3

1181.60
181+50
1182.9

1180.40
181+00
1182.4

1179.00
180+50
1180.4

1177.50
180+00
1177.2

25 20 15 10 5 0 ℄ 5 10 15 20 25

1188.93
185+00
1184.8

1186.45
184+66
1183.3

1186.23
184+50
1183.8

1185.52
184+00
1181.6

1184.82
183+50
1182.4

1184.11
183+00
1183.0

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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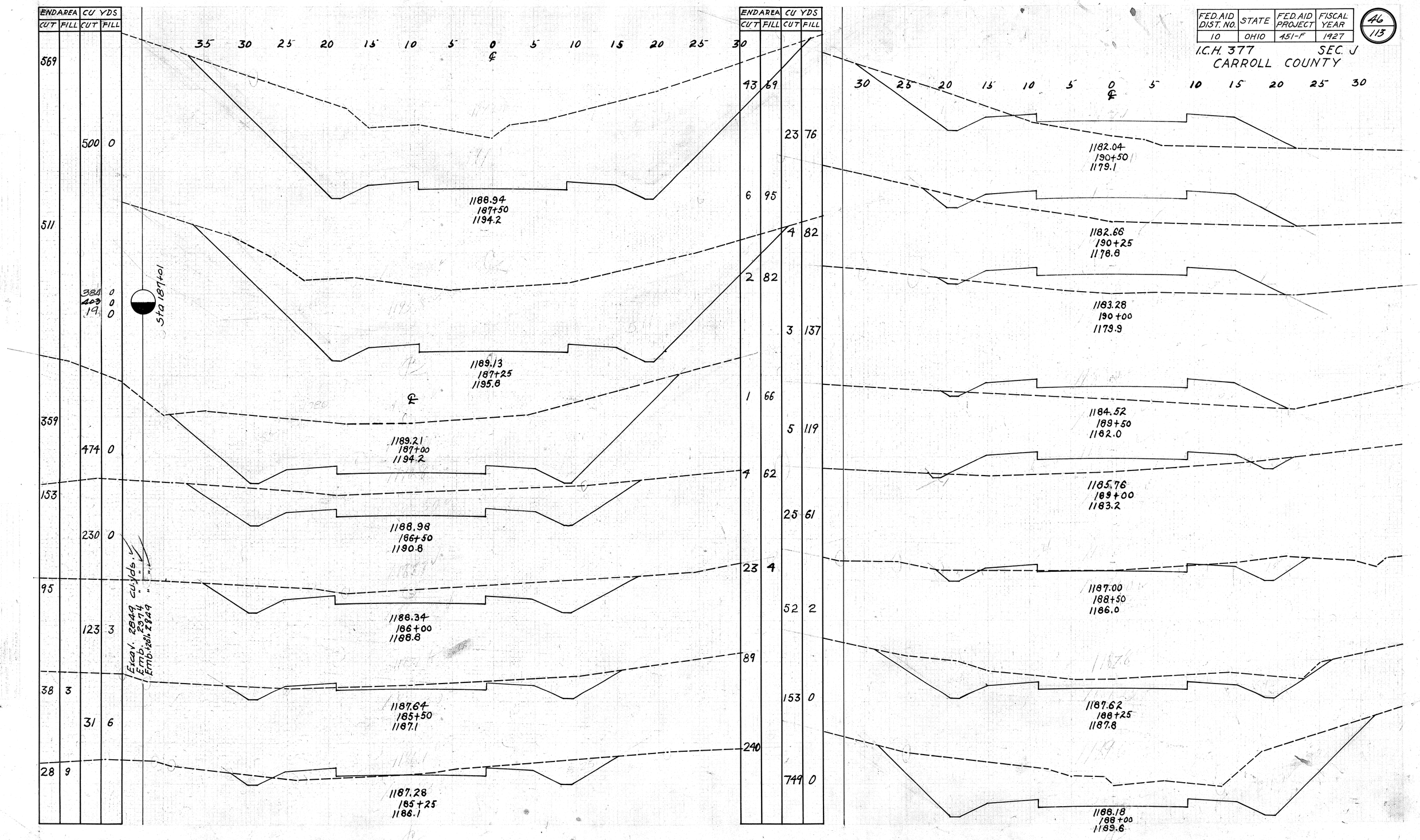
I.C.H. 377 SEC. J
CARROLL COUNTY



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		15	118
17	30		
		43	58
31	33		
		36	107
8	83		
		9	207
4	140		
		5	262
3	193		
		38	192
38	64		
		48	54
65	53		
		50	57

25 20 15 10 5 0 ℄ 5 10 15 20 25

1174.61
193+50
1173.4

1175.84
193+00
1174.7

1177.08
192+50
1174.6

1178.32
192+00
1174.2

1179.56
191+50
1175.3

1180.80
191+00
1178.7

1181.43
190+75
1179.2

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
308			
		437	0
169			
		160	
		~~253~~	0
		93	
109			
		135	5
36	5		
		34	71
		74	
		0	187
		128	
		0	208
		97	

Sta 196+18

Excav. 2404 cu.yds.
Emb. 2003 " "
Emb 120% 2404 " "

25 20 15 10 5 0 ℄ 5 10 15 20 25

1166.46
197+00
1170.5

1167.61
196+50
1170.6

1168.76
196+00
1169.9

1169.91
195+50
1169.7

1171.06
195+00
1168.5

1172.22
194+50
1168.4

1173.40
194+00
1170.6

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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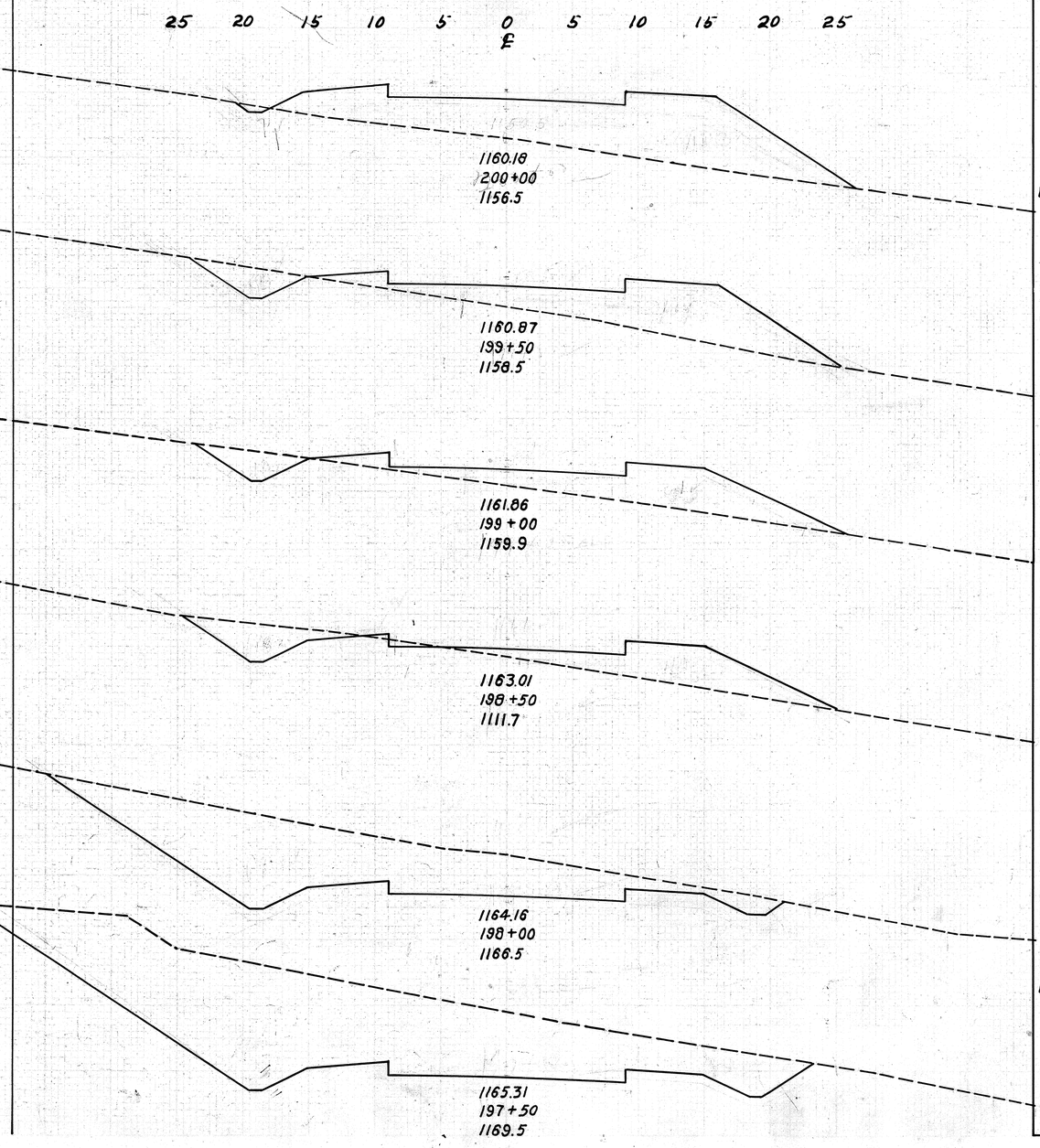
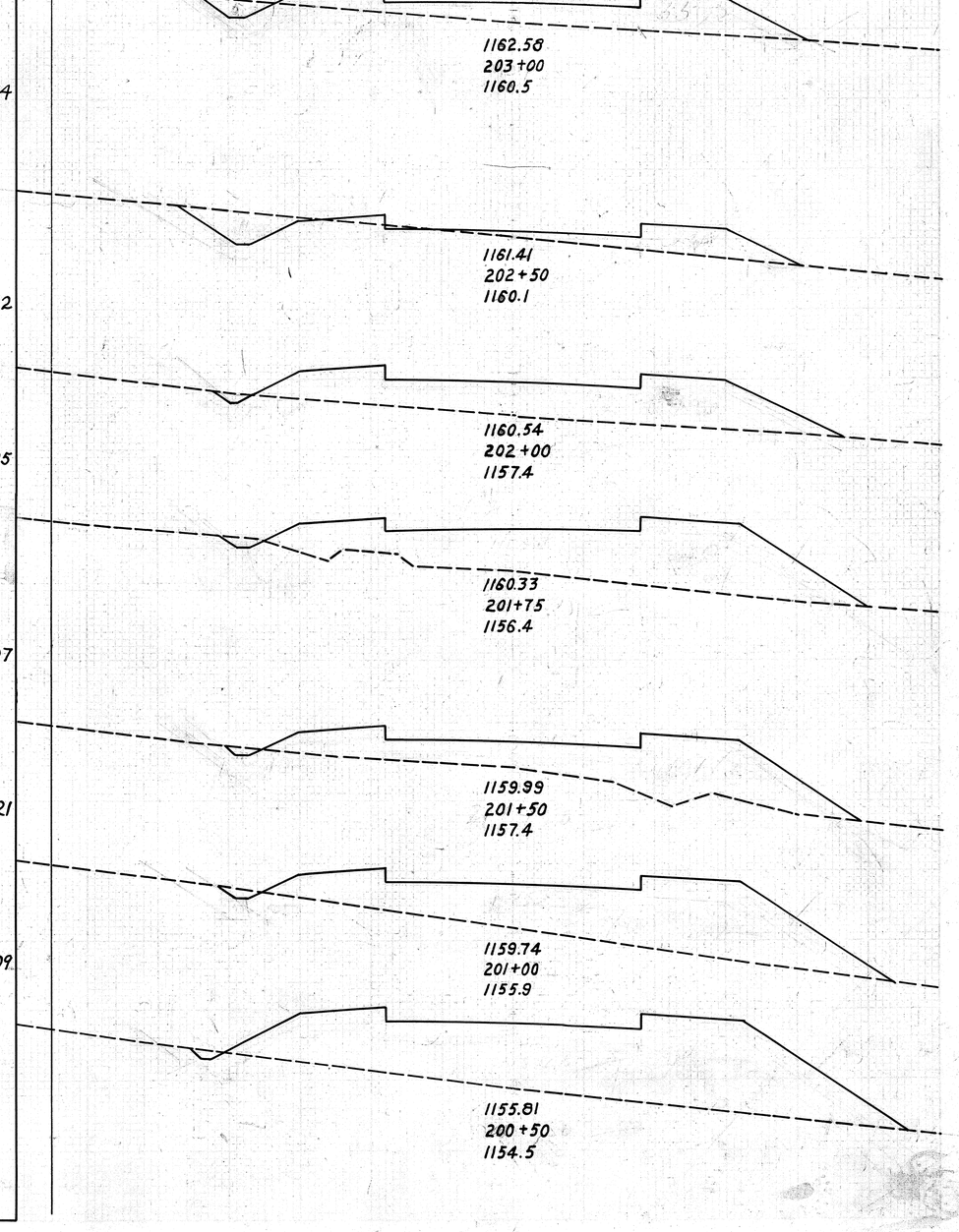
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		2	314
1	143		
		10	210
10	89		
		19	134
10	61		
		27	97
19	44		
		180	41
175			
		458	0
320			
		581	0



END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		6	136
5	55		
		15	74
11	27		
		11	112
1	96		
		1	105
1	130		
		1	107
1	101		
		2	221
1	138		
		2	309
1	196		



FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		282	0
350			
		382	0
		AAA	
339			
		92	
		508	0
		416	
210			
		249	0
59			
		57	65
2	70		
		3	134
1	75		
		3	141
1	92		

Sta. 206+30
444 cu yds. excav. added to approaches rt. and Lft.

Sta 205+41

Excav. 2640 cu.yds
Emb. 2200 " "
Emb. 70% 2640 " "

1163.50
206+30
1169.4

1165.45
206+00
1169.9

1165.54
205+50
1168.9

1166.01
205+00
1166.4

1165.89
204+50
1163.6

1165.16
204+00
1162.6

1163.91
203+50
1161.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		173	0
191			
		345	0
232			
		520	0
330			
		670	0
394			
		447	0
411			
		305	0
412			

1150.64
208+50
1152.2

1154.14
208+00
1157.1

1157.56
207+50
1161.6

1160.46
207+00
1166.3

1161.92
206+70
1168.2

1162.75
206+50
1169.4

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

50
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		5	330
1	98		
		4	155
1	69		
		4	151
2	94		
		3	198
2	120		
		6	188
6	83		
		5	58
6	43		
		16	27
31	15		
		61	7
103	1		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1129.64
211+50
1126.2

1133.14
211+00
1130.4

1136.64
210+50
1133.4

1140.14
210+00
1136.2

1143.64
209+50
1140.9

1145.39
209+25
1143.4

1147.14
209+00
1146.3

1148.89
208+75
1150.0

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		1	394
377			
		0	417
		0	659
335			242
		0	607
321			
		0	214
256			
		0	354
382			
		2	309
4	285		
		3	251
3	258		

STA 213+68

cu. yds. Excav. 3709
" " Emb. 3091
" " Emb. +20% 3709

25 20 15 10 5 0 ℄ 5 10 15 20 25

1119.03
214+00
1109.9

1119.66
213+50
1111.3

1121.07
213+00
1113.0

1121.85
212+00
1115.1

1123.24
212+50
1115.5

1124.60
212+25
1116.6

1126.16
212+00
1119.4

FEDAID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

51
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
70	18		
		135	19
76	3		
		213	3
154			
		458	0
341			
		339	7
25	8		
		12	58
1	117		
		1	158
2	225		
		2	214
2	332		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1129.36
217+00
1128.7

1126.75
216+50
1127.3

1124.13
216+00
1128.1

1121.73
215+50
1123.9

1120.07
215+00
1119.1

1119.52
214+75
1115.4

1119.17
214+50
1112.9

1119.01
214+30
1110.5

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
32	14		
		68	42
		39	38
12	27		
		74	42

25 20 15 10 5 0 ℄ 5 10 15 20 25

1134.59
218+00
1133.9

1131.97
217+50
1130.8

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

52
113

I.C.H. 377 SEC. J

CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
14	39		
		17	103
1	52		
		0	27
1	92		
		16	92
29	86		
		9	22
22	31		
		25	46
12	31		
		49	57
41	31		
47	5	48	84
		190	5
159			
		539	0
423			
		645	0
310			
		453	0
179			
		206	0
43			
		53	35

25 20 15 10 5 0 5 10 15 20 25

1147.16
220+50
1145.4

1144.28
219+88
1142.7

1143.76
219+78
1139.2

1142.44
219+50
1139.8

1141.92
219+40
1140.9

1139.82
219+00
1138.2

1137.20
218+50
1135.8

25 20 15 10 5 0 5 10 15

1147.17
223+50
1147.5

1148.68
223+00
1152.4

1149.58
222+50
1156.8

Sta 221+95

1149.87
222+00
1155.5

1149.57
221+50
1152.6

1148.69
221+00
1148.0

Excav. 2129 cuyds
Emb. 1774 " "
Emb 120% 2129 " "

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451 F	1927

53/113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS. CUT	CU YDS. FILL
		130	10
93	4		
		238	3
163			
		396	0
265			
		506	0
281			
		390	5
140	5		
		143	100
14	103		
		18	175
6	86		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1124.98
227+00
1126.0

1128.48
226+50
1130.6

1131.98
226+00
1138.0

1135.48
225+50
1139.7

1138.98
225+00
1140.1

1142.29
224+50
1139.3

1145.04
224+00
1142.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		136	6
66	6		
		88	20
29	16		
		30	61
3	50		
		38	80
38	36		
		53	78
19	48		
		49	72
34	30		
		51	69
21	44		
		62	48
46	8		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1099.23
231+00
1099.0

1101.80
230+50
1100.6

1104.61
230+00
1102.7

1107.68
229+50
1106.6

1110.99
229+00
1109.4

1114.48
228+50
1113.4

1117.98
228+00
1116.5

1121.48
227+50
1121.5

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	~~451~~	1927

54
113

I.C.H. 377 SEC J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	224
	122		
			219
	119		
		0	212
	115		
		231	
		1	177
1	76		
		3	98
2	30		
		22	30
22	2		
		74	2
58			
		129	0
81			

25 20 15 10 5 0 ℄ 5 10 15 20 25

1087.10
235+00
1083.3

1088.10
234+50
1084.1

Sta 233+50 to 237+50
237 cu.yds. excav. added
for ditch 2'×4' rt and lft.

1089.10
234+00
1085.3

1090.07
233+50
1087.4

1091.48
233+00
1093.3

1093.04
232+50
1092.5

1094.85
232+00
1094.9

1096.84
231+50
1097.4

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	18 ~~171~~ ~~158~~ 159
	80		
		0	126
	56		
		0	52
	57		
		0	110
	180		
		0	317
	162		
		0	285
	146		
		0	268
	143		
		0	239
	115		
		0	218
	120		

Sta 239+45

4256 cu.yds. ↓
3547 " "
4256 " "

Excav.
Emb.
Emb+20%

25 20 15 10 5 0 ℄ 5 10 15 20 25

1082.85
239+00
1080.2

1082.50
238+50
1080.2

1082.43
238+25
1080.2

1082.45
238+00
1077.5

1082.70
237+50
1077.9

1083.25
237+00
1078.6

1084.10
236+50
1079.4

1085.10
236+00
1081.5

1086.10
235+50
1082.4

FED AID DIST NO.	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

55/113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
69	6		
		181	22
126	18		
		198	39
88	24		
		99	72
			40
19	54		
		18	140
	97		
			197
116			
		0	216
117			
	180		
		0	206
105			

25 20 15 10 5 0 ℄ 5 10 15 20

1085.47
243+00
1085.4

1086.57
242+50
1087.2

Sta 242+00
40 cu.yds. emb added for road approach lft.

1086.73
242+00
1086.5

1086.51
241+50
1085.1

820 cu.yds. Excav.
957 " " Emb.
1148 cu.yds. Emb+20% Borrow
328 cu.yds. less 119 cu.yds. from creek change = 209 cu.yds.

1085.90
241+00
1082.7

1085.10
240+50
1081.3

Sta 239+50 to 240+50
180 cu.yds. excav. added for 2'x4' ditch rt and lft.

1084.30
240+00
1080.4

1083.50
239+50
1080.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	
		89	113
	57		
		4	86
4	36		
		8	50
5	18		
		12	14
			20
27	19		
		41	21
46	19		
		84	27
44	10		
		114	11
		117	11
		3	0
82	3		
		140	8

Sta 243+50

25 20 15 10 5 0 ℄ 5 10 15 20 25

1072.20
246+00
1070.1

1072.20
245+50
1072.1

1075.58
245+00
1074.6

Sta 245+00
20 cu.yds. emb. added for road approach left.

1076.53
244+80
1075.0

1078.20
244+50
1076.2

1081.01
244+00
1080.2

1083.43
243+50
1083.2

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

56/113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	97
	120		
		0	125
	91		
		0	191
	116		
		0	193
	92		
		0	333
	88		
		370	164
	89		
		0	199
	76		
		0	136
	65		

20 15 10 5 0 ℄ 5 10 15 20 25

1072.20
250+82
1069.2

1072.20
250+50
1069.4

1072.20
250+00
1068.9

1072.20
249+50
1069.5

Sta 247+30 to 251+00
370 cu.yds. excav. added
for ditch rt and lft.
2.7'x5'x370'

1072.20
248+50
1069.3

1072.20
248+00
1069.3

1072.20
247+35
1069.3

1072.20
247+00
1069.3

1072.20
246+50
1069.7

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	156
	124		
		0	231
	125		
		0	206
	97		
		0	187
	105		
		0	186
	96		
	100	0	180
	98		
		0	206
	125		
		0	152
	97		
		0	65
	171		

25 20 15 10 5 0 ℄ 5 10 15 20

1072.45
254+50
1069.4

1072.28
254+00
1068.7

1072.2
253+50
1068.3

1072+00
253+00
1069.2

Sta 252+50
100 cu.yds. excav.
added for ditch
lft + rt. 1'x4'x330'x2

1072.20
252+50
1069.4

1072.20
252+00
1069.5

1072.2
251+50

1072.20
251+13
1069.4

1072.20
251+00
1066.9

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

57
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		37	
		960	0
		923	
516			
		864	0
406			
		619	0
262			
		470	0
246			
		304	0
82			
		76	41
44			

20 15 10 5 0 ℄ 5 10 15 20 25 30

Sta 257+98

1075.20
257+50
1082.4

1074.70
257+00
1080.1

1074.20
256+50
1078.3

1073.70
256+00
1078.0

1073.20
255+50
1074.2

1072.78
255+00
1071.1

Excav. 4071 cu.yds.
Emb. 3390 " "
Emb. 120% 4068 " "
Waste 3 " "

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		11	119
1	91		
		2	219
1	145		
		2	277
1	154		
		67	207
71	70		
		266	93
216	30		
		570	31
400	3		
		853	3
521			

25 20 15 10 5 0 ℄ 5 10 15 20 25

1077.26
261+00
1074.3

1077.39
260+50
1073.0

1077.34
260+00
1072.2

1077.11
259+50
1074.9

1076.70
259+00
1077.6

1076.20
258+50
1080.0

1075.70
258+00
1082.7

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

58/113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
			123
		207	95
140	32		
		239	85
113	60		
		123	146
20	98		
		14	117
6	112		
		3	80
3	103		
		7	169
5	79		
		12	119
8	50		
		18	82
11	38		

25 20 15 10 5 0 ℄ 5 10 15 20 25 30 35

Sta 265+00
123 cu.yds. emb added for public road approach left.

1073.54
264+50
1071.4

1074.13
264+00
1073.2

1074.71
263+50
1071.7

1075.06
263+20
1072.1

1075.29
263+00
1072.3

1075.87
262+50
1073.5

1076.45
262+00
1074.8

1076.95
261+50
1075.4

Excav. 261 cu yds.
Emb. 2176 " " "
Emb+20% 2611 " " "

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		119	17
50	10		
		83	28
40	20		
		66	36
31	19		
		57	34
31	18		
		61	35
35	20		
		63	33
33	16		
		69	80
42	70	69	80
		116	131
83	71		

25 20 15 10 5 0 ℄ 5 10 15 20

Sta 266+00

1070.30
268+50
1070.5

1070.60
268+00
1070.5

1070.90
267+50
1070.3

1071.20
267+00
1070.7

1071.54
266+50
1071.2

1071.94
266+00
1072.0

1072.42
265+50
1071.5

1072.96
265+00
1071.6

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

59
113

I.C.H. 377 SEC J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		149	13
28	10		
		185	18
118	9		
		232	17
133	9		
		238	12
124	4		
		204	7
96	3		
		162	25
79	24		
		145	30
78	8		

20 15 10 5 0 ℄ 5 10 15 20 25 30

1068.20
272+00
1069.3

1068.50
271+50
1069.9

1068.80
271+00
1070.6

1069.10
270+50
1071.0

1069.40
270+00
1009.6

1069.70
269+50
1070.1

1070.00
269+00
1071.0

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		2	183
	49		
		7	167
4	41		
		14	53
11	16		
		55	22
		52	
48	8		
		103	18
63	11		
		135	10
83			
		150	4
79	4		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1066.04
276+00
1063.8

1066.46
275+00
1064.6

1066.72
274+50
1065.9

to 275+50 to 279+00
52 cu.yds excav. added
for ditch 1424+360 - Right

1067.00
274+00
1065.7

1067.30
273+50
1068.0

1067.60
273+00
1068.4

1067.90
272+50
1068.7

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

60
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		32	37
21	18		
		56	31
39	16		
		64	24
30	10		
		34	36
7	29		
		12	47
6	22		
		7	68
2	51		
		6	191
1	52		
		4	198
			80
1	55		
		4	194
1	50		

25 20 15 10 5 0 ℄ 5 10 15 20 25 30

1063.70
282+50
1062.6

1063.88
282+00
1063.4

1064.06
281+50
1063.1

1064.81
281+00
1063.1

1064.42
280+50
1062.9

1064.60
280+00
1062.3

1064.96
279+00
1062.7

Sta 279+50
80 cu.yds. emb.
added for approaches
right and left

1065.32
278+00
1063.0

1065.68
277+00
1063.7

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	309
73			
		0	259
			40
67			
		0	243
		222	
64			
		0	237
64			
		0	280
87			
		0	343
98			
		180	
		0	302
		122	
65			
		7	204
4	45		
		33	124
14	22		

Sta 285+40

Excav. 254 cu.yds.
Emb. 2118 " "
Emb+20% 2542 " "
Borrow 1 cu.yd.

25 20 15 10 5 0 ℄ 5 10 15

1061.00
291+00
1057.9

Sta 290+00
40 cu.yds emb
added for 2 field
approaches

1061.09
290+00
1058.4

Sta 288+00 to 296+50
222 cu.yds. excav. added
for ditch 1+24 750
right + left.

1061.36
289+00
1058.9

1061.72
288+00
1059.1

1062.08
287+00
1058.8

1062.04
286+00
1058.8

1062.80
285+00
1060.2

1063.16
284+00
1061.0

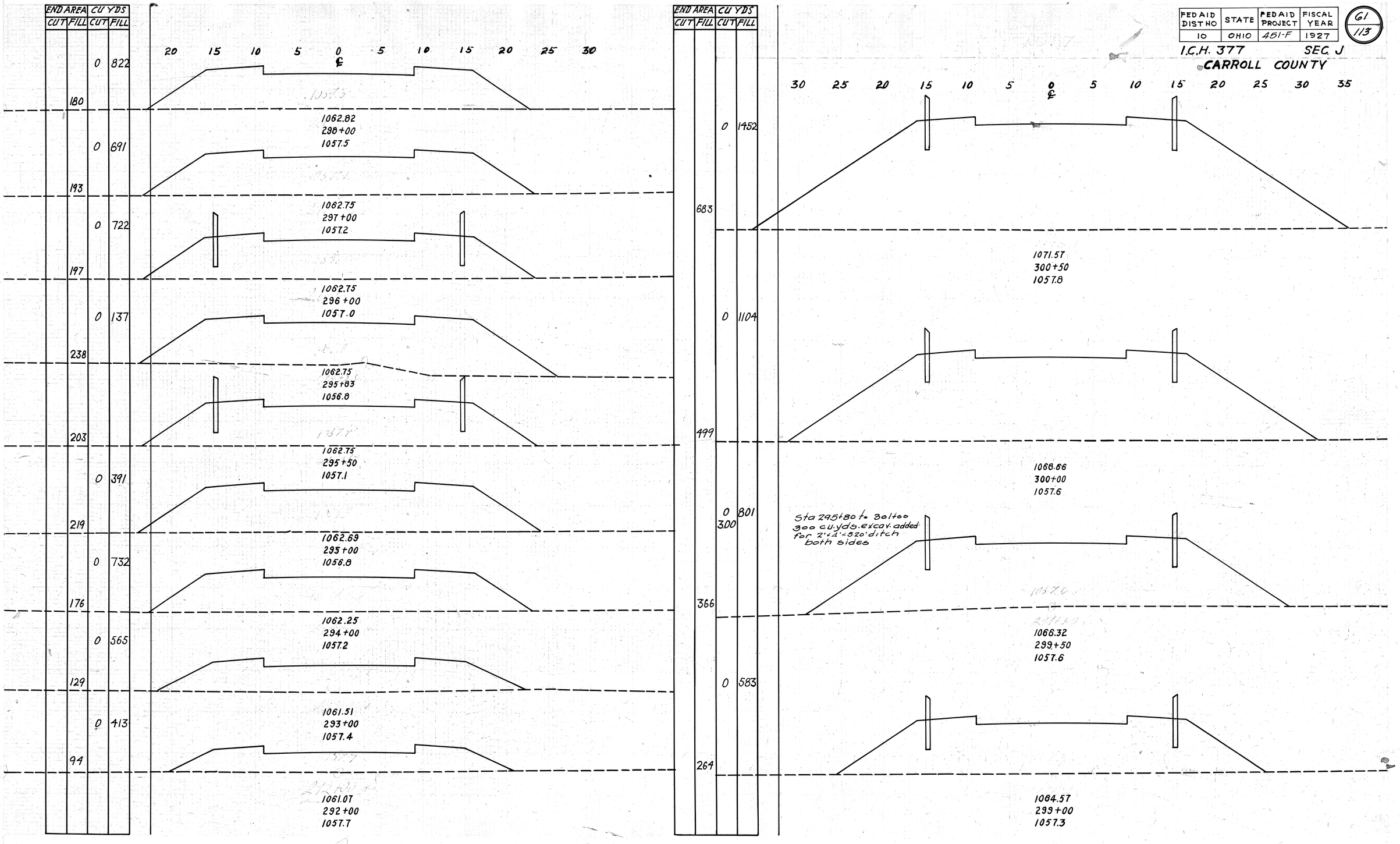
1063.52
283+00
1062.0

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

61/113

I.C.H. 377 SEC. J

CARROLL COUNTY



FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

62
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	733
965			
		0	936
1057			
		0	1968
1069			
		0	1809
885			

20 15 10 5 0 ℄ 5 10 15 20 25 30

1083.69
302+25
1066.8

1082.00
302+00
1063.4

1078.50
301+50
1060.0

1075.00
301+00
1058.7

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
1257			
		1197	0
1025			
		806	0
715			
		502	0
370			
		204	0
69			
		32	96
207			
		0	383
620			

25 20 15 10 5 0 ℄ 5 10 15 20

1092.00
304+00
1111.3

1091.19
303+75
1107.3

1090.25
303+50
1102.5

1089.19
303+25
1096.2

1088.00
303+00
1086.7

1086.69
302+75
1080.9

1085.25
302+50
1072.4

FED AID DIST NO.	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

63
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
1973			
		353	0
1850			
		3182	0
1586			
		1405	0
1450			
		1202	0

1194.25
305+50
1120.7

1194.00
305+00
1119.5

1093.25
304+50
1115.9

1092.69
304+25
1114.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		141	21
300			
		494	0
768			
		920	0
1220			
		1279	0
1543			
		2479	
		3205	0
		726	
1918			
		3603	0

Sta 306+19

Excav. 16920 cu/yds.
Emb. 16229 " "
Emb+15% 18663 " "
Borrow 17443 " "

1091.19
307+25
1096.6

1092.00
307+00
1105.1

1092.69
306+75
1111.7

1093.25
306+50
1115.7

1094.00
306+00
1119.6

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

64
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	624
622			
		0	970
426			
		0	327
280			
		2	151
5	46		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1085.25
308+50
1072.6

1088.00
308+00
1078.2

1089.19
307+75
1082.2

1090.25
307+50
1088.5

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	235
44			
		0	309
190			
		0	442
287			
		0	703
		703	
		87	
472			
		0	1081
695			
		0	658
727			

Sta 310+00

Sta 310+00
87 cuyds. emb added for approach left.

Excav. 531.5 cuyds.
Emb. 4622 " "
Emb 1161' 8815 " "

25 20 15 10 5 0 ℄ 5 10 15 20

1072.47
311+00
1068.3

1074.02
310+50
1068.7

1076.12
310+00
1069.0

1078.78
309+50
1067.9

1082.00
309+00
1068.2

1083.69
308+75
1069.6

FED AID DIST. NO.	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

65/113

I.C.H. 377 SEC J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
	56		
		0	101
	53		
		0	114
	70		
		0	134
	75		
		0	155
	92		
		0	172
	355		
	94		
		0	191
	111		
278		559	0
	69	320	5
	5	64	200
	212		
		0	396
	215		
		0	354
	168		
		0	250
	102		
		0	146

20 15 10 5 0 5 10 15 20 25
℄
1074.36
314+50
1072.0

1072.93
314+00
1070.6

1072.01
313+50
1069.3

1071.55
313+00
1068.7

Sta 310 to 316
355 cu.yds. emb. added
for 2'x2'x600' ditch
both sides

1071.15
312+50
1067.9

1071.03
312+00
1067.6

1071.47
311+50
1067.7

25 20 15 10 5 0 5 10 15 20 25
℄
1092.20
317+50
1096.1

1088.70
317+00
1088.9

1085.20
316+50
1079.6

1081.76
316+00
1075.1

1078.78
315+50
1073.7

1076.31
315+00
1072.7

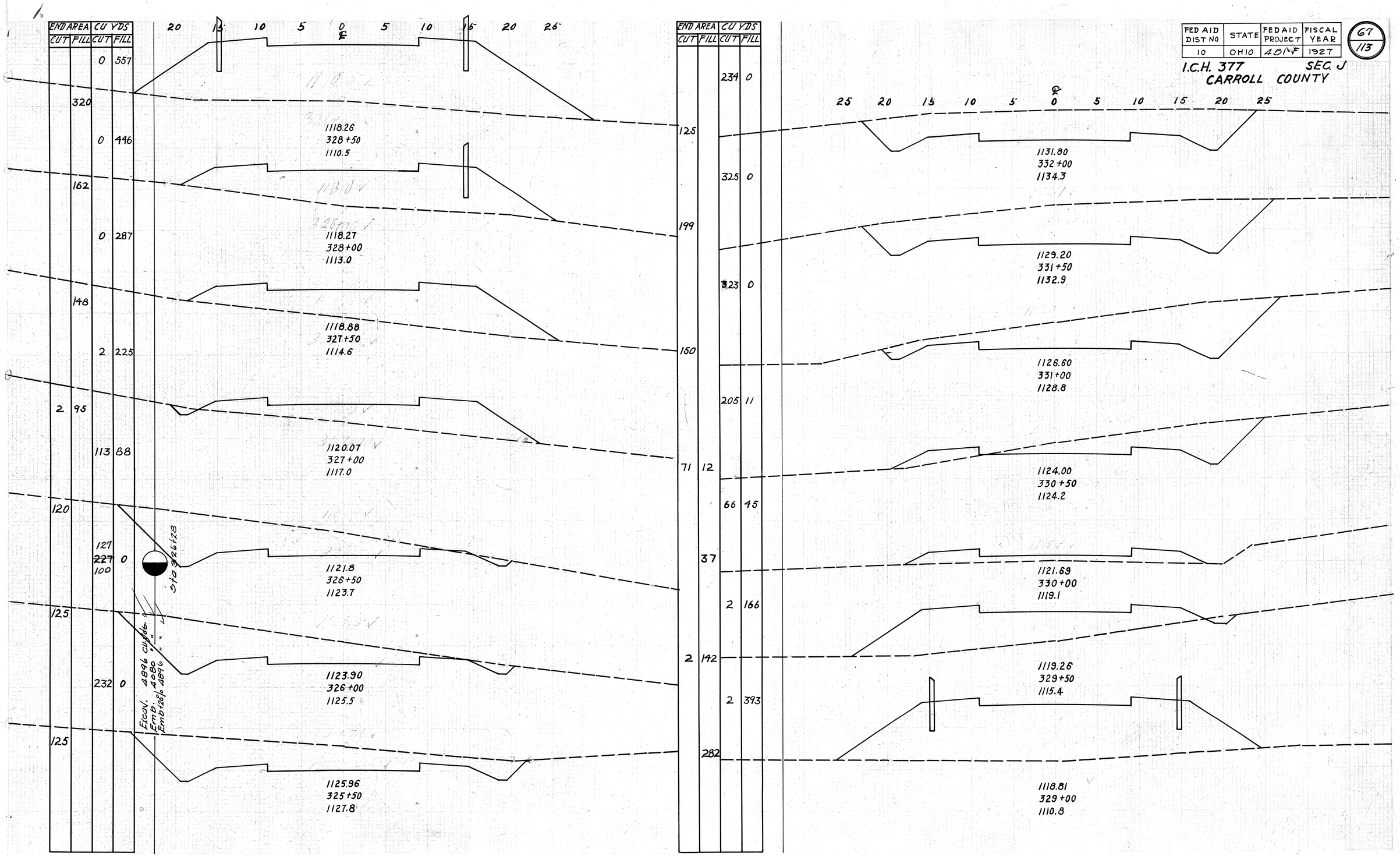
FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

66
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL	
80				1116.70 / 321+00 / 1117.1
		74	144	
	155			1113.20 / 320+50 / 1108.1
		0	387	
	263			1109.70 / 320+00 / 1102.8
		19	294	
21	55			1106.20 / 319+50 / 1104.4
		208	51	
204				1102.70 / 319+00 / 1106.0
		491	0	
326				1099.20 / 318+50 / 1104.6
		613	0	
335				1095.70 / 318+00

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL	
140		245	0	1127.67 / 325+00 / 1129.8
		204	0	
80				1128.69 / 324+50 / 1129.7
		97	0	
25				1129.02 / 324+00 / 1128.6
		48	0	
27				1128.64 / 323+50 / 1128.4
		88	0	
68				1127.58 / 323+00 / 1128.3
		183	0	
130				1125.81 / 322+50 / 1127.8
		325	0	
221				1123.35 / 322+00 / 1127.1
		401	0	
212				1122.20 / 321+50 / 1123.6
		270	0	



FED AID DIST NO 10
STATE OHIO
FED AID PROJECT 451-F
FISCAL YEAR 1927
67/113
I.C.H. 377 SEC. J
CARROLL COUNTY
END AREA CUT FILL
CU YDS CUT FILL
20 15 10 5 0 5 10 15 20 25
1118.26 328+50 1110.5
1118.27 328+00 1113.0
1118.88 327+50 1114.6
1120.07 327+00 1117.0
1121.8 326+50 1123.7
1123.90 326+00 1125.5
1125.96 325+50 1127.8
Sta 326+28
Excav. 4896 cu yds.
Emb. 4080 " "
Emb+20% 4896 " "
1131.80 332+00 1134.3
1129.20 331+50 1132.9
1126.60 331+00 1128.8
1124.00 330+50 1124.2
1121.69 330+00 1119.1
1119.26 329+50 1115.4
1118.81 329+00 1110.8

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

68
113

I.C.H. 377 SEC J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		88	
		~~488~~ 400	0
262			
		446	0
220			
		287	6
96			
		105	15
23	10		
		28	29
7	21		
		20	27
15	8		
		77	7
78			

Sta. 335+90

15 10 5 0 ℄ 5 10 15 20 25

1144.33
335+50
1149.6

1143.97
335+00
1147.7

1143.05
334+50
1143.9

1141.57
334+00
1141.00

1139.53
333+50
1138.1

1137.00
333+00
1136.3

1134.66
332+55
1135.5

Excav. 2762 cu.yds.
Emb. 2302 " "
Emb 120% 2762 " "

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		185	15
152	1		
		158	30
19	31		
		20	75
3	50		
		97	46
102			
		276	0
196			
		204	0
244			
		235	0
265			

25 20 15 10 5 0 ℄ 5 10 15 20 25

1136.13
338+50
1137.7

1137.87
338+00
1136.3

1140.15
337+50
1137.5

1142.04
337+00
1143.5

1143.36
336+50
1148.2

1143.81
336+25
1148.9

1144.13
336+00
1147.4

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

69
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	1706
912	912		
		0	377
			~~750~~
			973
440	440		
		1	270
48	15		
		46	282
		2	290

20 15 10 5 0 ℄ 5 10 15 20 25 30

Sta 339+85

1135.08
340+00
1118.9

1134.52
339+70
1124.3

1134.73
339+50
1127.5

1135.08
339+00
1135.0

Excav. 1810 cuyds.
Emb. 1091 " "
Emb 120% 1309 " "
Waste 1 " yd.

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		13	126
3	80		
		3	182
116			
		0	157
223			
		0	300
426			
		0	561
785			
		0	794
930			

25 20 15 10 5 0 ℄ 5 10 15 20 25

1143.50
342+00
1140.6

1140.35
341+50
1136.9

1139.04
341+25
1132.5

1137.89
341+00
1127.1

1136.93
340+75
1121.6

1136.14
340+50
1119.5

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

70/113

I.C.H. 377 SEC J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
640	640		
		1061	0
506			
		750	0
304			
		449	0
181			
		211	3
47	3		
		61	45
19	46		
		28	94
11	56		

20 15 10 5 0 ℄ 5 10 15 20 25

1164.72
345+50
1175.1

1162.40
345+00
1170.7

1159.82
344+50
1165.1

1156.98
344+00
1160.1

1153.87
343+50
1153.6

1150.50
343+00
1149.0

1147.00
342+50
1144.7

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		1	128
	241		
		22	105
59	44		
		418	41
393			
		990	0
676			
		136	0
		1320	
		1134	
750			
		1287	0

Excav. 4997 cu yds.
Emb. 4345 " "
Emb+15% 4997 " "

Sta 946+43

25 20 15 10 5 0 ℄ 5 10 15 20 25 30

1171.84
347+70
1166.0

1171.40
347+50
1170.9

1170.12
347+00
1175.9

1168.58
346+50
1178.8

1166.79
346+00
1178.7

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

71
113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
25	107		
		42	171
20	78		
		34	222
17	162		
		11	191
6	250		
		4	315
2	431		
		1	326
2	451		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1174.02
349+50
1171.1

1173.66
349+00
1170.9

1173.17
348+50
1169.1

1172.83
348+25
1167.8

1172.48
348+00
1163.8

1172.05
347+80
1161.4

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
69	96		
		66	85
74	87		
		60	85
55	97		
		121	169
76	85		
		141	108
76	32		
		132	58
67	31		
		38	38
36	71		
		34	99

25 20 15 10 5 0 ℄ 5 10 15

1175.82
352+00
1171.0

1175.64
351+75
1175.4

1175.46
351+50
1174.3

1175.10
351+00
1173.8

1174.74
350+50
1174.6

1174.38
350+00
1173.8

1174.24
349+80
1172.1

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

72
113

I.C.H. 377 SEC. 1.1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		19	261
2	182		
		2	212
2	276		
		2	265
2	296		
		7	436
5	175		
		16	269
12	116		
		11	190
	89		
		8	201
9	128		
		72	207

25 20 15 10 5 0 5 10 15 20 25
℄

1177.98
355+00
1172.9

1177.80
354+75
171+75

1177.62
354+50
1170.3

1177.66
354+00
1172.5

1176.90
353+50
1173.3

1176.54
353+00
1174.2

1176.18
352+50
1172.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
181	16		
		31	5
150	42		
		85	15
156	11		
		74	23
111	73		
		67	76
70	132		
		35	54
56	64		
		42	91
19	100		

30 25 20 15 10 5 0 5 10 15
℄

1179.04
356+50
1180.9

1179.01
356+45
1179.4

1178.92
356+30
1180.4

1178.81
356+15
1177.4

1178.66
355.95
1175.7

1178.56
355+80
1177.1

1178.34
355+50
1175.2

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

13/113

I.C.H. 377 SEC. J
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		382	0
288			
		187	1
216	3		
		349	3
161			
		144	0
149			
		136	4
145	8		
		181	35
135	46		
		88	17

25 20 15 10 5 0 ℄ 5 10 15 20 25

1177.06
358+20
1182.2

1177.60
358+00
1181.9

1178.56
357+50
1181.4

1178.86
357+25
1180.4

1179.04
357+00
1179.5

1179.10
356+65
1178.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
103	24		
282			
400			

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
129	10		
~~297~~	~~22~~		
165	12		
356	22		
632	0		

Sta 359+78
End of Sec J.

Excav. 5992 cu.yds.
Emb. 4540 " " "
Emb. 20% 5448 " " "
Borrow 56

25 20 15 10 5 0 ℄ 5 10 15 20 25

1168.90
359+50
1172.6

1174.22
359+00
1176.8

1176.16
358+50
1182.4

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

74
113

I.C.H. 377 SEC. 1.1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		3	466
2	275		
		3	370
1	124		
		98	115
106			
		304	0
222			
		453	0
267			
		445	0
214			

25 20 15 10 5 0 5 10 15 20 25

1151.54
362+50
1144.4

1155.04
362+00
1151.0

1158.54
361+50
1159.3

1162.04
361+00
1165.3

1165.54
360+50
1169.6

1168.90
360+00
1171.9

Sta 359+78
Beginning of Sec I-1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		4	218
1	100		
		111	93
119			
		262	0
164			
		264	0
121			
		97	3
		146	4
		49	1
37	4		
		45	57
12	58		
		12	265
228			

Sta 364+17

Excav. 1541 cu.yds.
Emb. 1284 " "
Emb 120% 1541 " "

25 20 15 10 5 0 5 10 15

1127.04
366+00
1123.3

1130.54
365+50
1132.3

1134.04
365+00
1136.8

1137.54
364+50
1739.1

1141.04
364+00
1140.7

1144.54
363+50
1142.4

1148.04
363+00
1141.9

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

95
113

I.C.H. 377 SEC. 1.1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		546	1
216	1		
		16	2
		291	37
		295	35
98	39		
		63	104
15	148		
		15	94
26	104		
		41	192
18	103		
		19	220
3	135		

25 20 15 10 5 0 ℄ 5 10 15 20 25

Sta. 368+48

1109.54
368+50
1112.4

1113.1
368+00
1113.1

1115.14
367+70
1111.8

1116.54
367+50
1114.1

1120.04
367+00
1117.4

1123.54
366+50
1119.3

Excav. 1101 cu.yds.
Emb. 959 " "
Emb. 20% 1151 " "

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	424
	262		
		0	519
	298		
		0	547
	293		
		3	427
3	168		
		153	169
162	15		
		465	19
	340		
		661	0
	374		

℄ 25 20 15 10 5 0 5 10

1085.28
372+00
1028.2

1078.54
371+50
1080.9

1092.04
371+00
1084.6

1095.54
370+50
1090.9

1099.04
370+00
1101.0

1102.04
369+50
1107.6

1106.04
369+00
1112.0

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

76/113

I.C.H. 377 SEC. 1.1

CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		285	0
108			
		139	0
42			
		46	8
8	9		
		8	47
42			
		1	95
61			
		0	182
135			
		0	308
196			

25 20 15 10 5 0 ℄ 5 10 15 20 25

1072.33
375+50
1073.6

1073.71
375+00
1073.6

1075.28
374+50
1074.2

1076.84
374+00
1074.9

1078.41
373+50
1075.9

1080.21
373+00
1076.0

1082.51
372+50
1026.9

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	0
		0	0
626			
		0	0
473			
		290	0
310			
		37 554 517	0
288			
		452	0
200			

R.R. UNDER PASS
0 min. 50 l.in.ft. of Roadway

Sta 376+97

Excav. 3298 cuyds.
Emb. 2743 " "
Emb 120% 3292 " "

25 20 15 10 5 0 ℄ 5 10 15

1070.10
377+50
1073.4

1070.15
377+35
1076.1

1070.20
377+20
1074.5

1070.26
377+00
1074.6

1070.60
376+50
1075.2

1071.28
376+00
1074.2

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	~~AGNF~~	1927

77
113

I.C.H. 377 SEC. 11
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		38	43
48	35		
		93	43
63	16		
		174	15
125			
		123	0
140			
		155	0
139			
		77	0

25 20 15 10 5 0 5 10 15 20 25
℄

1069.53
379+50
1069.5

1069.60
379+05.22
1070.2

1069.76
378+55.22
1071.6

1069.84
378+30.22
1072.0

1069.94
378+00
1072.4

1070.04
377+70
1074.2

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		15	4
13	2		
		19	22
8	22		
		10	95
3	81		
		3	178
111			
		0	94
1	105		
		17	75
35	56		

25 20 15 10 5 0 5 10 15 20 25
℄

1070.69
381+73.55
1069.7

1070.29
381+23.5
1069.5

1069.91
380+73.55
1067.5

1069.66
380+23.55
1067.3

1069.58
380+00
1067.4

1069.54
379+75
1068.7

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

78
113

I.C.H. 377 SEC. 1.1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		2	11
26			
		18	4
13	7		
		68	7
60			
		107	0
55			
		109	0
63			
		119	0
65			
		84	4
26	4		
		41	10
18	7		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1073.50
385+25
1073.0

1073.30
385+00
1072.3

1072.90
384+50
1073.3

1072.50
384+00
1072.7

1072.10
383+50
1072.5

1071.70
383+00
1072.1

1071.30
382+50
1070.7

1070.90
382+00
1070.3

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		1	94
40			
		2	83
50			
		1	107
66			
		0	131
75			
		1	119
1	53		
		4	81
3	35		
		3	12
9	9		
		1	12
118			

25 20 15 10 5 0 ℄ 5 10 15

1075.70
388+00
1073.8

1075.30
387+50
1073.2

1074.90
387+00
1072.3

1074.50
386+50
1071.6

1074.10
386+00
1071.8

1073.70
385+50
1071.9

1073.58
385+35
1072.6

1073.54
385+30
1069.8

FED AID DIST No	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

79/113

I.C.H. 377 SEC. I-1
CARROLL COUNTY

END AREA CUT	END AREA FILL	cu.yds. CUT	cu.yds. FILL
		3	101
	80		
		0	136
	87		
		0	127
	70		
		0	131
	71		
		1	107
1	44		
		2	69
1	31		
		1	86
	62		
		0	15 +15 100
	62		

Ex. 1612 cuyds
Emb 1344 " "
Emb 20% 1613 " "
Borrow 1 " "

Sta 388+43

25 20 15 10 5 0 ℄ 5 10 15 20 25

1078.90
392+00
1075.8

1078.50
391+50
1075.6

1078.10
391+00
1075.2

1077.70
390+50
1074.9

1077.3
390+00
1075.1

1076.90
389+50
1075.2

1076.50
389+00
1073.9

1076.10
388+50
1073.6

END AREA CUT	END AREA FILL	cu.yds. CUT	cu.yds. FILL
		43	84
43	21		
		0	0
		~~91~~	~~22~~
		91	22
55	8		
		122	7
77	0		
		153	0
88			
		143	0
66			
		92	6
33	6		
		33	32
3	29		

Sta 395+50

Excav 641 cu.yds
Emb 839 " "
Emb 20% 1007 " "
Borrow 366 " "

25 20 15 10 5 0 ℄ 5 10 15 20 25

1081.81
395+50
1080.4

1081.35
395+00
1081.3

1080.91
394+50
1081.6

1080.50
394+00
1081.2

1080.10
393+50
1080.5

1079.70
393+00
1079.2

1079.30
392+50
1077.6

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

80 / 113

I.C.H. 377 SEC. 11

CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	174
	87		
			100
		0	173
	100		
		0	187
	102		
		0	194
	108		
		0	189
	96		
		0	201
	121		
		0	208
	104		
		0	194
	106		
		3	168
3	75		

25 20 15 10 5 0 ℄ 5 10 15 20 25

Sta 394+50
100 cu.yds emb
added for approach
(Right)

1086.26
400+00
1083.1

1085.76
399+50
1082.0

1085.27
399+00
1081.5

1084.77
398+50
1080.9

1084.28
398+00
1081.1

1083.78
397+50
1080.2

1083.28
397+00
1079.6

1082.79
396+50
1079.3

1082.29
396+00
1079.3

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	640
	275		
			300
		0	296
	124		
		0	108
	169		
		0	180
	155		
		0	246
	111		
		0	196
	101		

25 20 15 10 5 0 ℄ 5 10 15 20 25

Sta 402+00
300 cu.yds emb.
added for approach
Right.

1093.81
402+39.74
1086.9

1091.76
402+00
1088.2

1090.83
401+80
1085.7

1089.63
401+50
1084.7

1088.01
401+00
1084.3

1086.90
400+50
1083.3

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

81
113

I.C.H. 377 SEC. 1.1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		0	519
594			
		0	555
605			
		300	
		0	521
521			
		0	607
416			

25 20 15 10 5 0 ℄ 5 10 15 20 25

1102.75
403+75
1090.4

1101.00
403+50
1088.7

Sta 404+00
300 cu.yds emb.
added for approach
to house - left.

1099.25
403+25
1088.0

1096.83
402+89.74
1097.4

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		62	128
23	151		
		13	163
5	202		
		2	232
298			
		0	318
389			
		0	424
526			

25 20 15 10 5 0 ℄ 5 10 15 20 25 30

1111.50
405+00
1110.9

1109.75
404+75
1106.9

1108.00
404+50
1102.8

1106.25
404+25
1097.5

1104.50
404+00
1093.5

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

82
113

I.C.H. 377 SEC. 1-1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
386	113		
		359	108
389	120		
		309	109
280	116		
		226	119
208	140		
		148	123
112	125		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1120.25
406+25
1125.2

1118.50
406+00
1124.7

1116.75
405+75
1122.4

1115.00
405+50
1119.2

1113.25
405+25
1115.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
355	70		
		352	75
406	93		
		348	95
346	112		
		442	146
336	113		
		201	63

25 20 15 10 5 0 ℄ 5 10 15 20 25

1127.25
407+25
1123.7

1125.50
407+00
1122.2

1123.75
406+75
1121.4

1121.30
406+40
1122.6

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

83/113

I.C.H. 377 SEC. 1-1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		48	239
59	137		
		57	129
64	105		
		84	50
111	2		
		151	10
219	15		
		248	26
322	37		
		313	49

25 20 15 10 5 0 5 10 15 20 25
℄

1136.00
408+50
1133.9

1134.25
408+25
1134.6

1132.50
408+00
1132.2

1130.75
407+75
1130.0

1129.00
407+50
1127.1

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		56	267
103	218		
		100	717
5	556		
		24	937
21	456		
		31	370
45	344		

25 20 15 10 5 0 5 10 15 20 25
℄

1146.50
410+00
1137.7

1143.00
409+50
1133.4

1139.50
409+00
1131.8

1137.75
408+75
1132.0

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

87
113

I.C.H. 377 SEC. 1-1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		546	0
580			
		527	0
558			
		908	0
420			
		585	84
212	91		
		213	417
18	360		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1160.50
412+00
1171.3

1158.75
411+75
1168.5

1155.25
411+25
1162.0

1151.75
410+75
1151.7

1148.25
410+25
1141.0

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		683	0
383			
		826	0
509			
		1035	0
609			
		1131	0
813			
		561	0
600			

25 20 15 10 5 0 ℄ 5 10 15 20 25

1174.50
414+00
1179.9

1171.00
413+50
1179.4

1167.50
413+00
1177.6

1164.00
412+50
1175.2

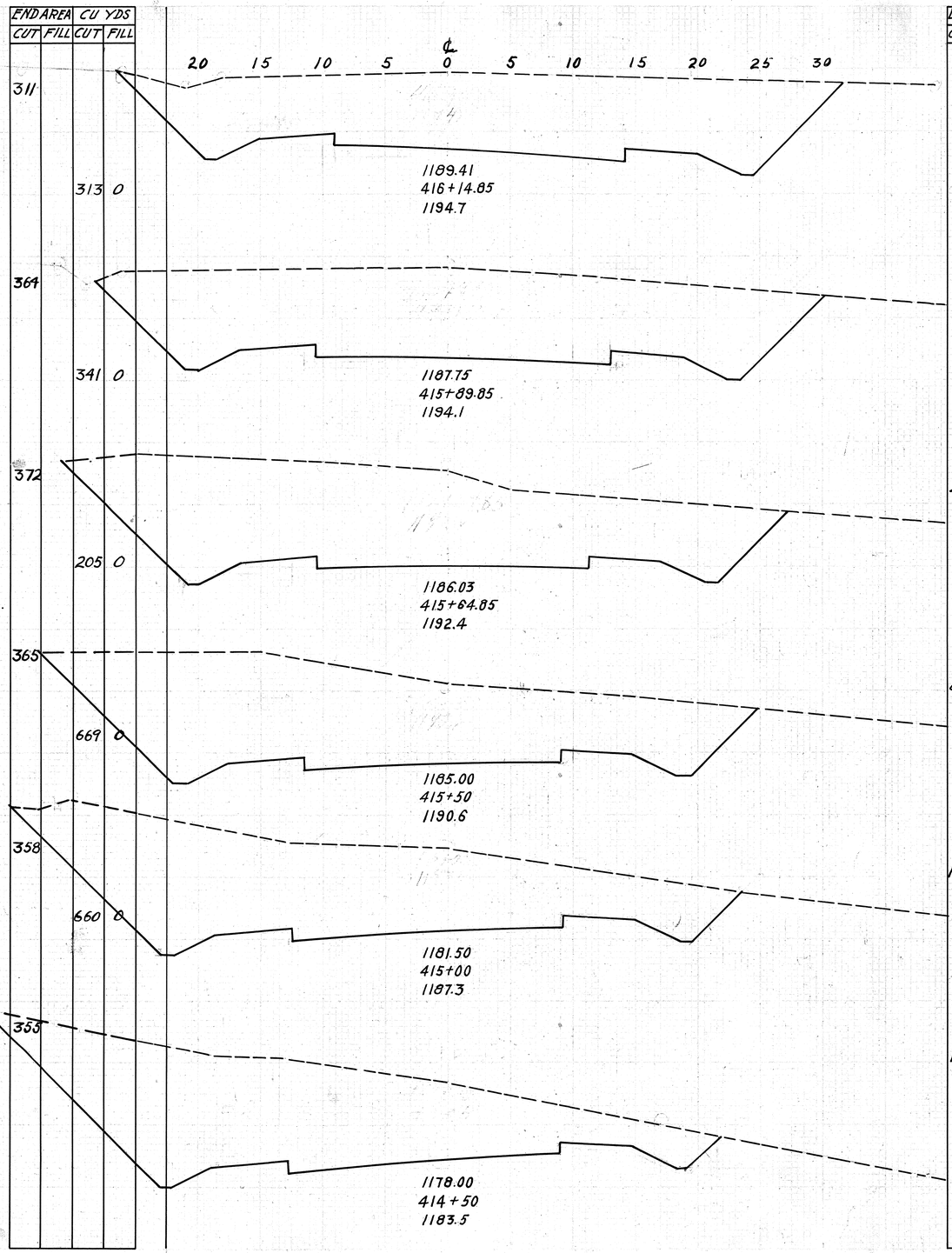
1162.25
412+25
1173.7

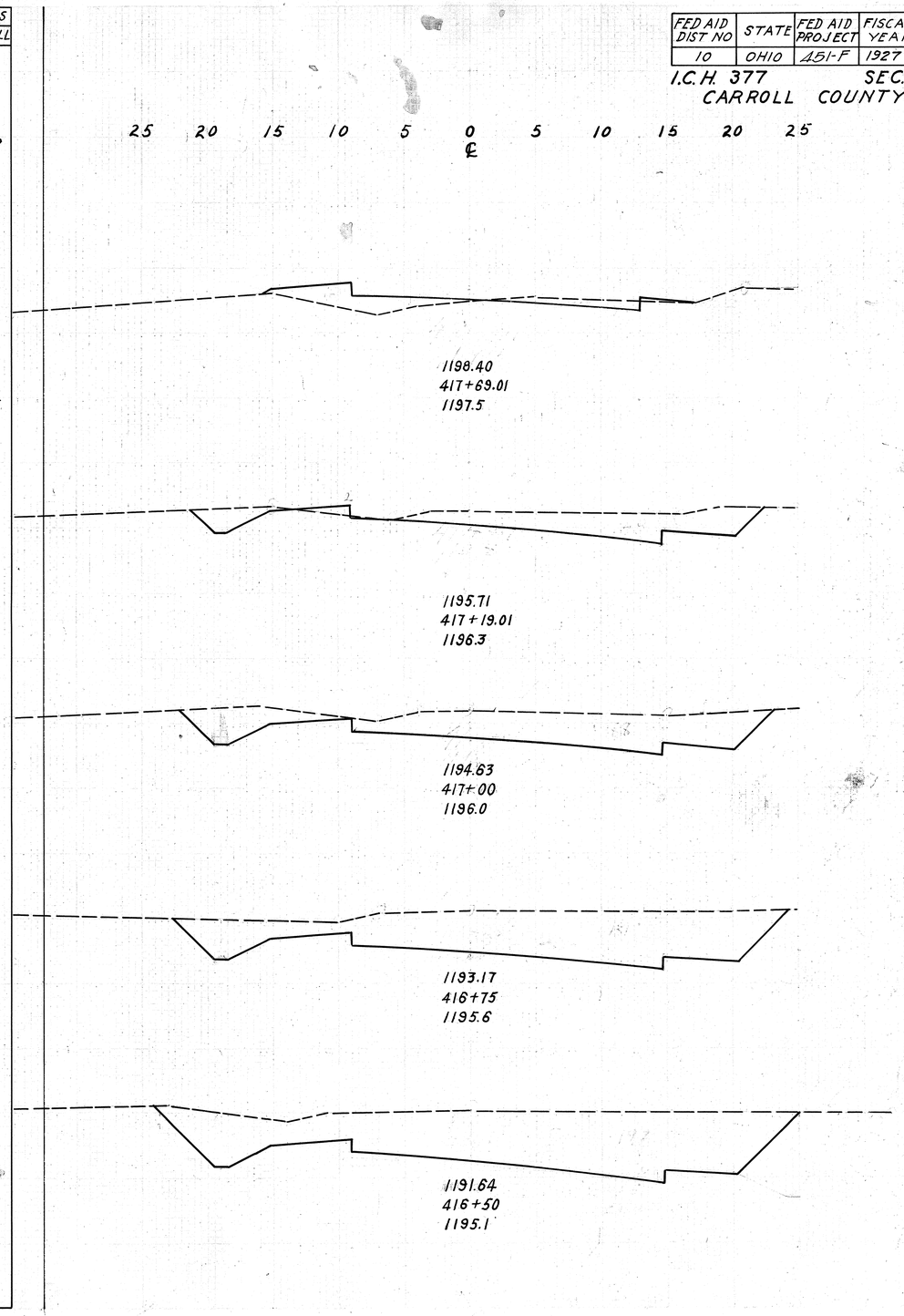
FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

85/113

I.C.H. 377 SEC. 1-1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
			8 49
5	15		
			49 16
48	2		
			48 1
88			
			102 0
131			
			142 0
175			
			315 0





FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

86
113

I.C.H. 377 SEC. 1-1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		47	1
		57	1
		10	0
33			
		49	0
20	0		
		50	2
34	2		
		54	6
27	5		
		36	19
15	15		
		14	26
9	30		
		12	63
4	38		

Sta 421+03

25 20 15 10 5 0 ℄ 5 10 15 20 25

1207.98
421+00
1208.8

1207.30
420+50
1207.6

Excav. 13708 cuyds.
Emb. 11428 " "
Emb+15% 13708 " "

1206.41
420+00
1206.8

1205.29
419+50
1205.4

1203.94
419+00
1203.6

1203.01
418+69.01
1201.8

1200.85
418+19.01
1199.5

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		17	0
42			
		67	0
30			
		54	0
28			
		41	0
32	0		
		71	0
45			
		67	1
2 28	1		

25 20 15 10 5 0 ℄ 5 10 15 20 25

1209.94
424+00
1211.1

1209.64
423+50
1210.3

1209.34
423+00
1209.9

1209.04
422+50
1209.9

1208.74
422+00
1209.9

1208.44
421+50
1209.4

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

87/113

I.C.H. 377 SEC. 1-1
CARROLL COUNTY

END AREA CUT	END AREA FILL	CU YDS CUT	CU YDS FILL
		52	1
39			
		54	0
19			
		19	9
2	10		
		11	18
		9	22
10	9		
		13	14
0	15		
		44	0
14			
		69	0
33	0		
41	0		

20 15 10 5 0 5 10 15 20 25

℄

1221.34
428+00
1222.0

1219.54
427+50
1219.5

1217.74
427+00
1217.4

1215.94
426+50
1214.8

1214.14
426+00
1213.6

1212.53
425+50
1212.8

1211.29
425+00
1212.5

1210.43
424+50
1211.4

End Area Cut	End Area Fill	Cu Yds Cut	Cu Yds Fill
		32	9
12	7		
		19	15
9	9		
		18	29
10	22		
		32	43
25	24		
		53	25
32	3		
		44	14
16	12		
		31	12
17	1		

25 20 15 10 5 0 5 10 15 20 25

℄

1233.94
431+50
1233.6

1232.14
431+00
1232.2

1228.34
430+50
1230.5

1228.54
430+00
1229.3

1226.74
429+50
1227.1

1224.94
429+00
1224.9

1223.14
428+50
1223.0

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

88/113

I.C.H. 377 SEC. 1-1
CARROLL COUNTY

END AREA		CU YDS	
CUT	FILL	CUT	FILL
0	62		
		4	94
4	40		
		38	37
37	0		
		44	0
10	0		
		29	3
21	3		

20 15 10 5 0 5 10 15 20 25
℄

Sta 434+09
End of Project
and Sec. 1-1

1241.27
434+00
1239.1

1240.06
433+50
1238.7

1238.74
433+00
1239.1

1237.26
432+50
1236.9

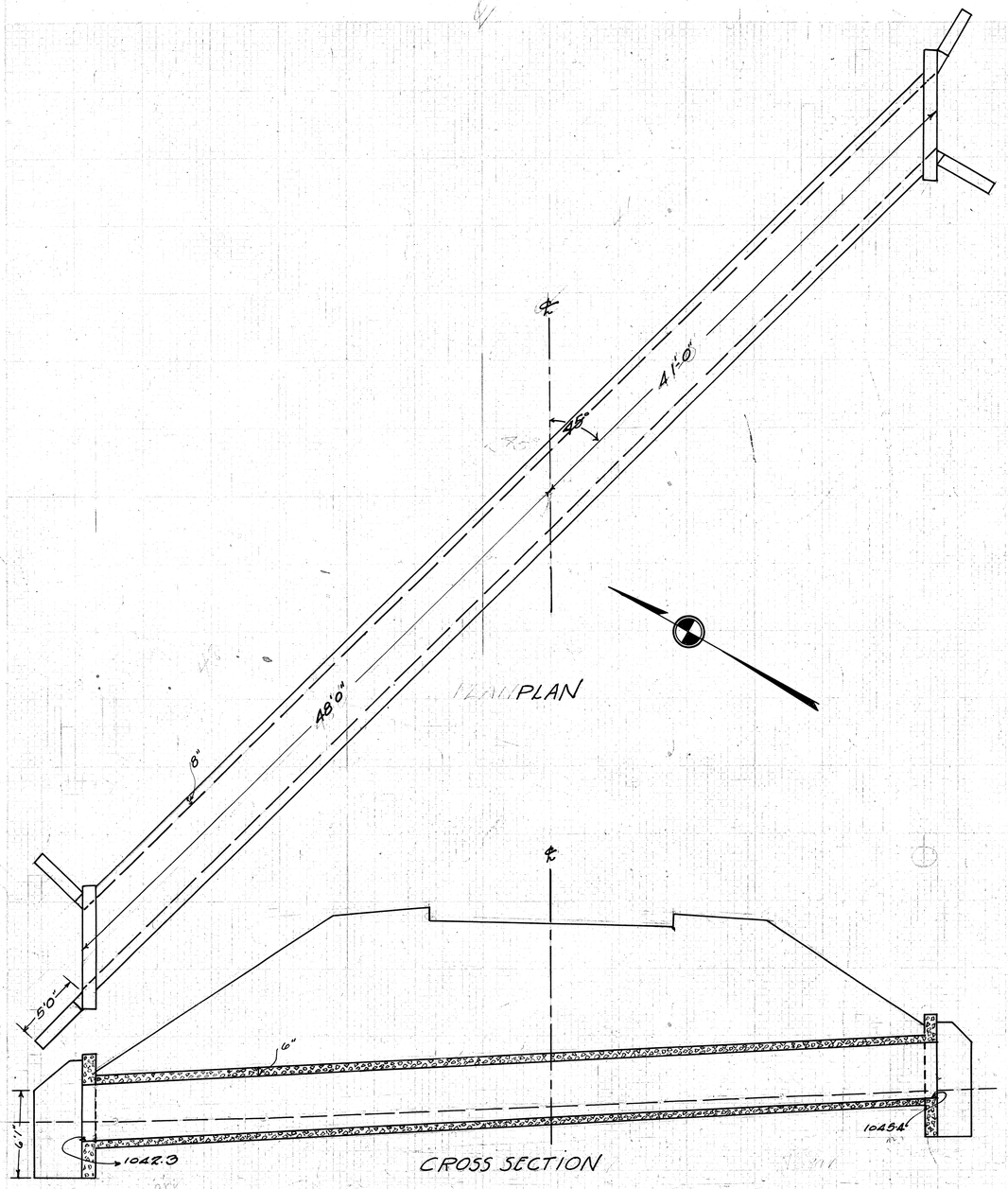
1235.67
432+00
1235.5

Excav 1099 cu yds
Emb. 347 " "
Emb +30% 416 " "
Waste 629

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

89/113

I.C.H. 377 SEC. J
CARROLL COUNTY



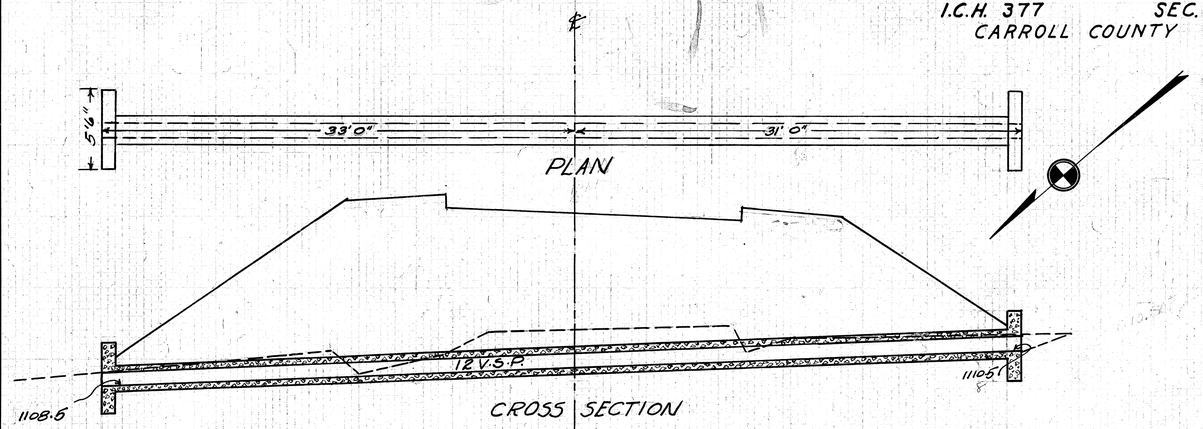
CULVERT DATA
Type - Std conc. Box Dr 301
Size - 4'×4'×89'
Work Req. - Build New
Std 4'×4'×89' box culvert

EST QUANTITIES
Excav. 38 cu.yds.
Conc 1:5½ 49.1 cu.yds.
Reinf. Steel 2635 lbs.

Drawn by: H.C.W.
Date: 7-26-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

Sta 14+50 (2)



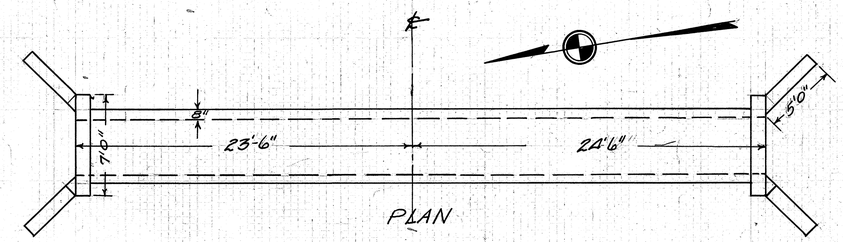
CULVERT DATA
Type: Std. V.S.P. Culvert Dr "300
Size: 12"×64'
Work Req. Remove old pipe
Build new std enc. V.S.P. culvert.

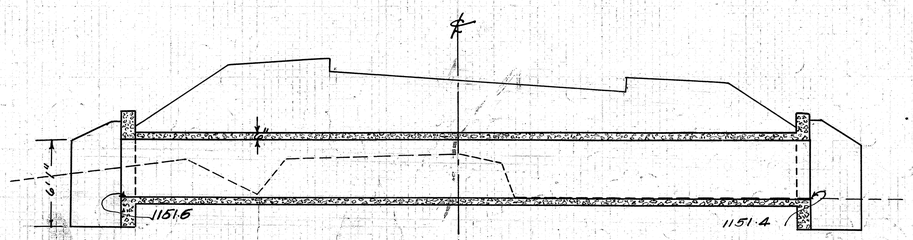
EST. QUANTITIES
Excav 26 cu.yds.
Conc. 1:5½ 2.0 cu.yds.
Conc. 1:8 6.7 cu.yds.
Reinf. Steel 12" V.S.P 651 lbs
64 lin ft

Drawn by: H.C.W.
Date: 7-26-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

Sta 43+88 (3)





CULVERT DATA
Type: Std Box Dr 301
Size: 4'×4'×48'
Work Req: Remove old 24"×17" CI Pipe - Build New Std 4'×4'×48' Con. box culvert

EST. QUANTITIES
Excav. 31 cu.yds.
Conc. 1:5½ 29.7 cu.yds.
Reinf. steel 1395 lbs (4)

Drawn by H.C.W.
Date: 7-26-27

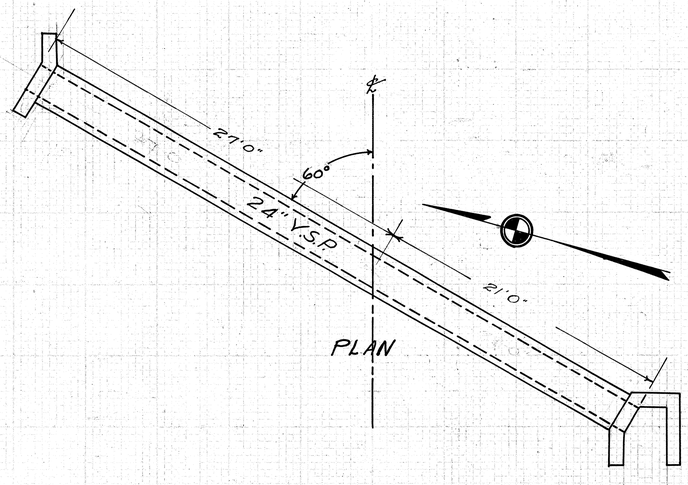
Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

Sta 57+12

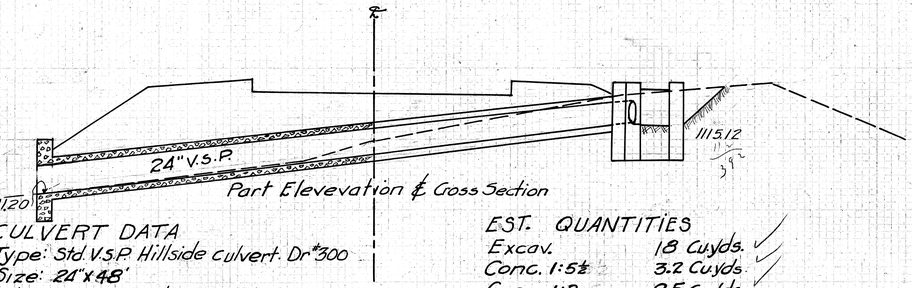
FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

90
113

I.C.H. 377 SEC. J
CARROLL COUNTY



PLAN



Part Elevevation & Cross Section

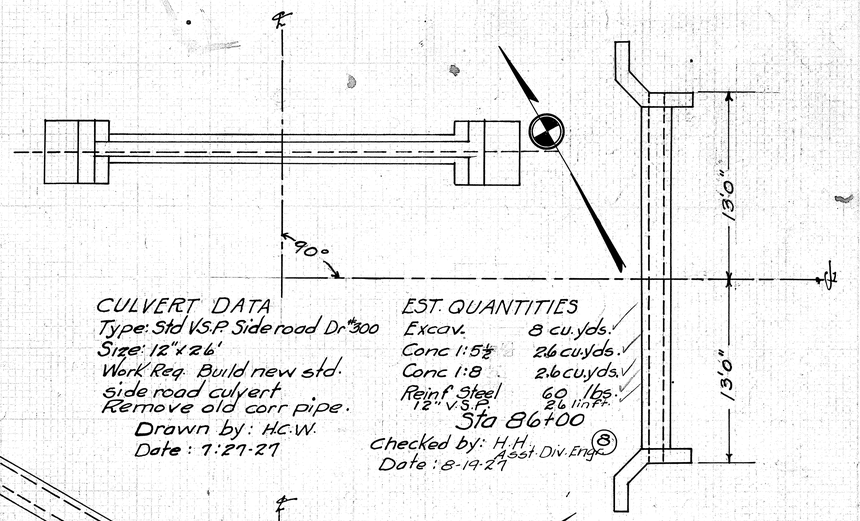
CULVERT DATA
Type: Std V.S.P. Hillside culvert Dr#300
Size: 24"x48'
Work Req: Build new std. V.S.P. hillside culvert.
Drawn by: H.C.W.
Date: 7-26-27

EST. QUANTITIES

Excav.	18 Cuyds.
Conc. 1:5½	3.2 Cuyds.
Conc. 1:8	9.5 Cuyds.
Reinf. Steel 24" V.S.P.	50 lbs. 48 lin.ft.

Sta 77+50 (6)

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



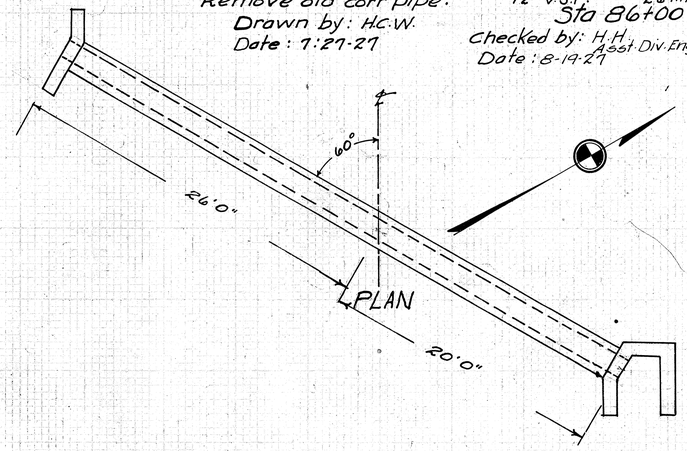
CULVERT DATA
Type: Std V.S.P. Side road Dr#300
Size: 12"x26'
Work Req. Build new std. side road culvert
Remove old corr pipe.
Drawn by: H.C.W.
Date: 7-27-27

EST. QUANTITIES

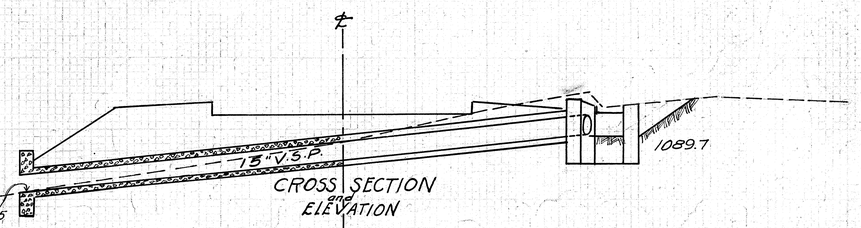
Excav.	8 cu.yds.
Conc 1:5½	2.6 cu.yds.
Conc 1:8	2.6 cu.yds.
Reinf. Steel 12" V.S.P.	60 lbs. 26 lin.ft.

Sta 86+00 (8)

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



PLAN



CROSS SECTION and ELEVATION

CULVERT DATA
Type: Std. V.S.P. Hillside Dr#300
Size: 15"x 46'
Work Req. Build Std 15"x46' encased V.S.P. Hillside Culvert
Drawn by: H.C.W.
Date: 7-27-27

EST. QUANTITIES

Excav.	16 cu.yds.
Conc. 1:5½	28 cu.yds.
Conc. 1:8	5.7 cu.yds.
Reinf. steel 15" V.S.P.	40 lbs. 46 lin.ft.

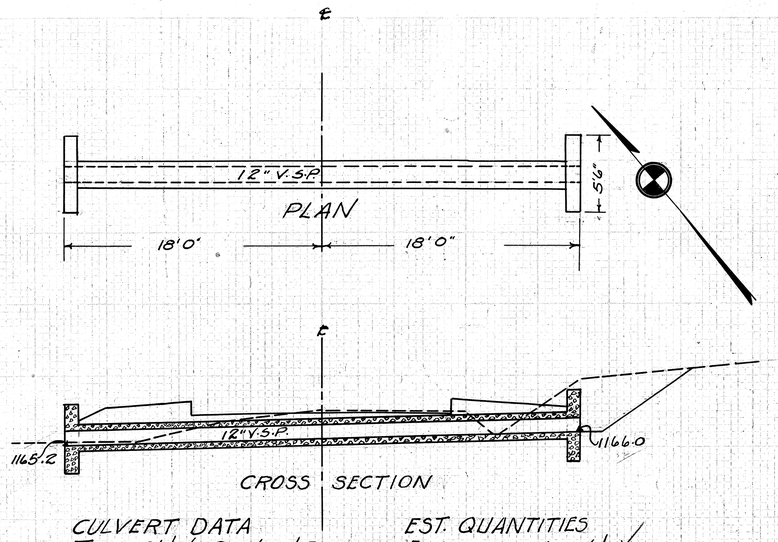
Sta. 81+50 (7)

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

91/113

I.C.H. 377 SEC. J
CARROLL COUNTY

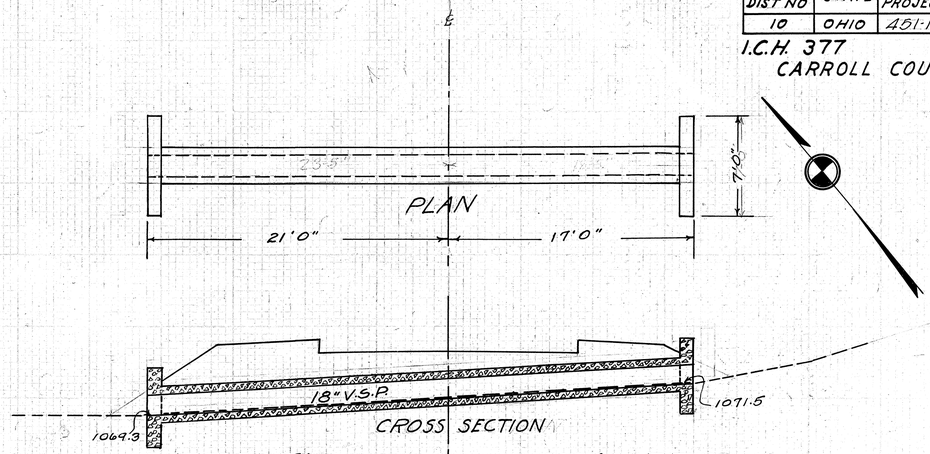


CULVERT DATA
Type: Std. V.S.P. culvert Dr 300
Size: 12" x 36'
Work Req.: Remove wood Box
Build Std encased V.S.P. culvert.

Drawn by: H.C.W.
Date: 7-27-27

EST. QUANTITIES
Excav. 11 cu.yds. ✓
Conc 1:5½ 2.0 cu.yds. ✓
Conc. 1:8 3.1 cu.yds. ✓
Reinf. Steel 65 lbs. ✓ (5)
12" V.S.P. 36 lin ft.
Sta 66+50

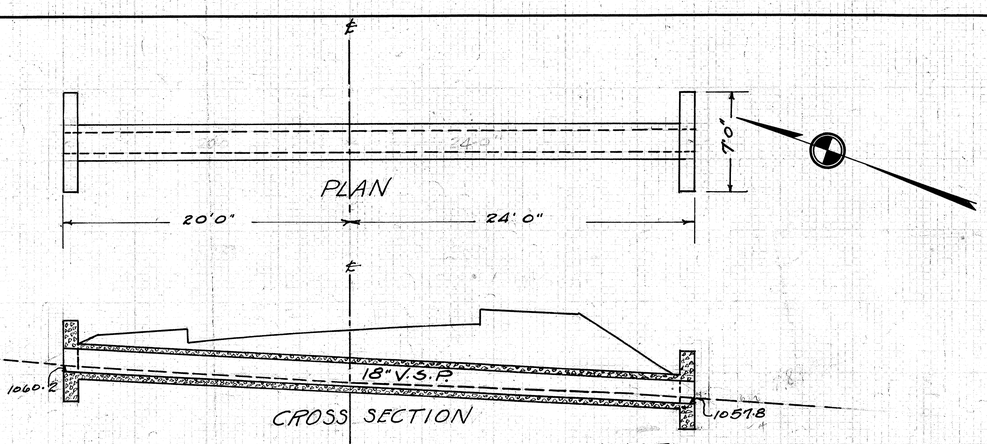
Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



CULVERT DATA
Type: Std V.S.P. Culvert Dr 300
Size: 18" x 38'
Work Req: Build new
std enc. V.S.P. culvert
Drawn by: H.C.W.
Date: 7-28-27

EST. QUANTITIES
Excav. 6 cu.yds. ✓
Conc 1:5½ 2.7 cu.yds. ✓
Conc. 1:8 5.5 cu.yds. ✓
Reinf. Steel 80 lbs. ✓ (12)
18" V.S.P. 38 lin ft.
Sta 112+50

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

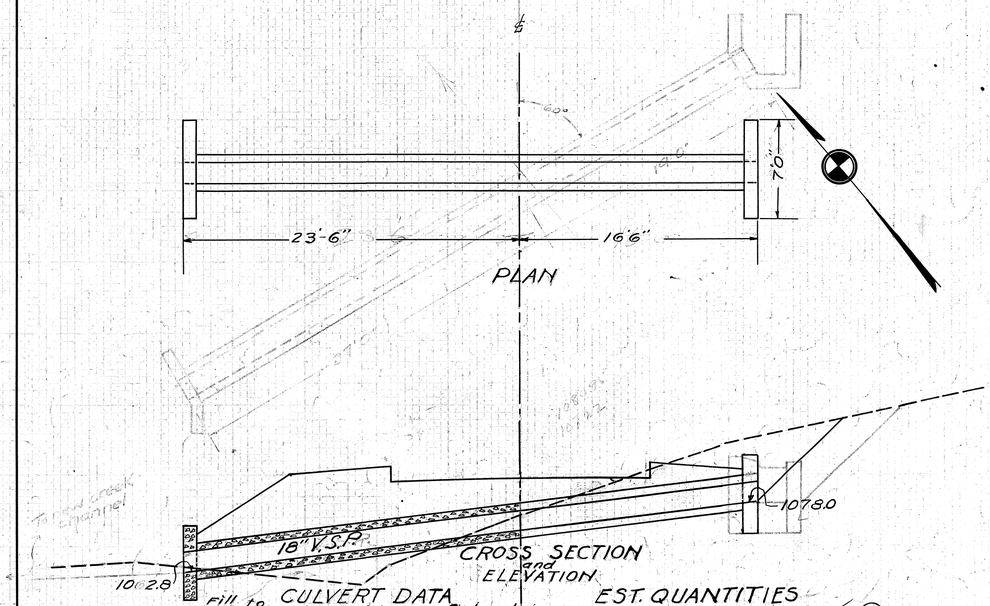


CULVERT DATA
Type: Std. V.S.P. culvert Dr 300
Size: 18" x 44'
Work Req: Build std
encased V.S.P. culvert

Drawn by: H.C.W.
Date: 7-27-27

EST. QUANTITIES
Excav. 10 cu.yds. ✓
Conc 1:5½ 2.7 cu.yds. ✓
Conc. 1:8 6.5 cu.yds. ✓
Reinf. Steel 80 lbs. ✓ (10)
18" V.S.P. 44 lin ft.
Sta 98+00

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



CULVERT DATA
Type: Std V.S.P. Culvert Dr 300
Size: 18" x 40"
Work Req: Build std.
encased V.S.P. Hillside culvert.

Drawn by: H.C.W.
Date: 7-27-27

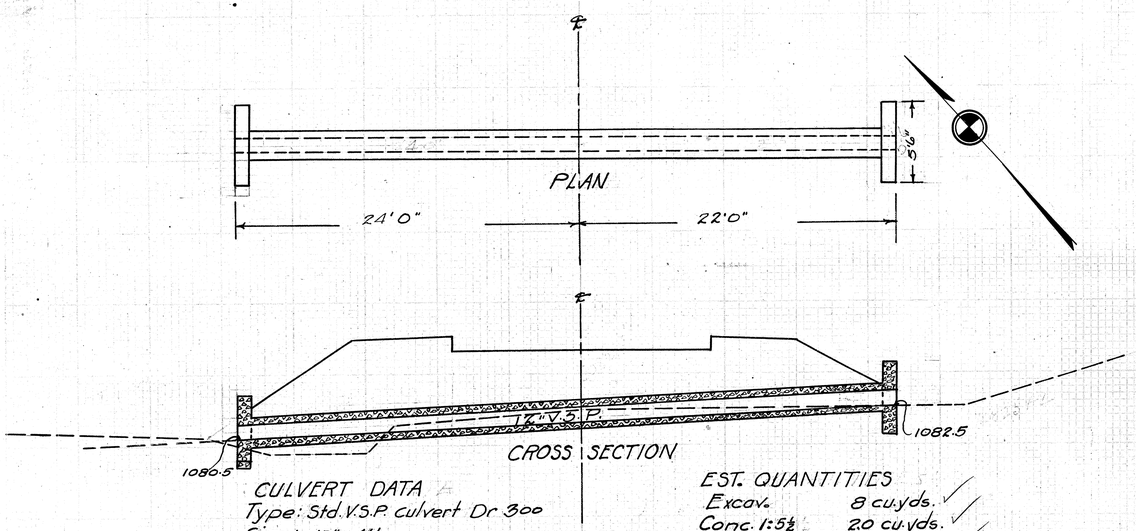
EST. QUANTITIES
Excav. 10 cu.yds. ✓ (13)
Conc 1:5½ 2.7 cu.yds. ✓
Conc 1:8 5.85 cu.yds. ✓
Reinf. Steel 80 lbs. ✓
18" V.S.P. 40 lin. ft. Sta. 117+50

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

92
113

I.C.H. 377 SEC. J
CARROLL COUNTY

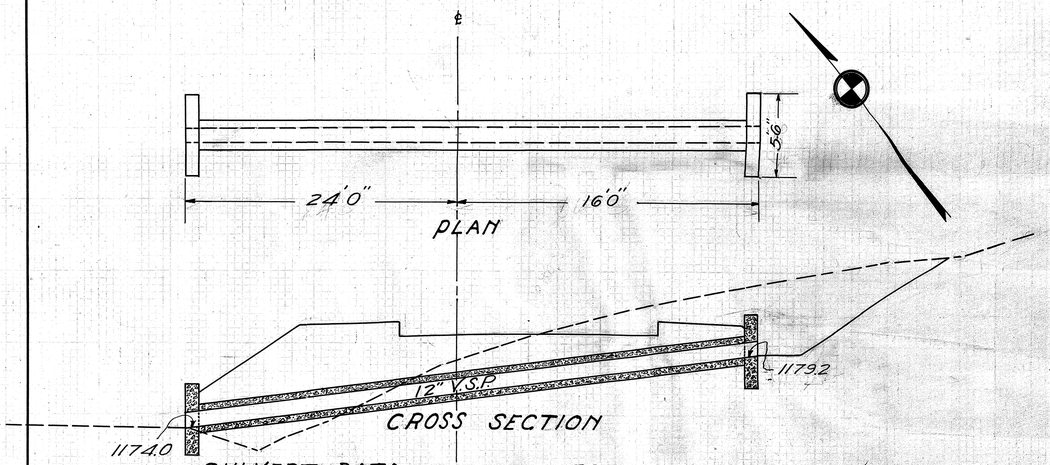


CULVERT DATA
Type: Std. V.S.P. culvert Dr 300
Size: 12"x 46'
Work Req.: Build std
12"x 46' enc. V.S.P culvert
Drawn by: H.C.W.
Date: 7-28-27

EST. QUANTITIES
Excav. 8 cu.yds.
Conc. 1:5½ 2.0 cu.yds.
Conc. 1:8 4.15 cu.yds.
Reinf. steel 65 lbs
12" V.S.P. 46 lin ft (15)

Checked by: H.H.
Date: 8-19-27 Asst. Div. Engr.

Sta 124+50

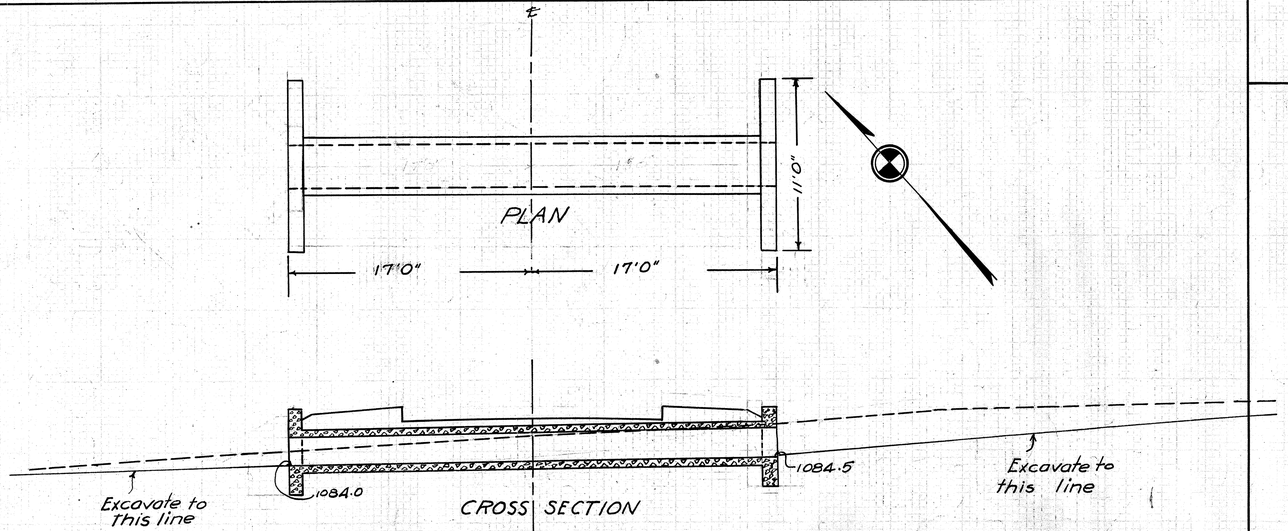


CULVERT DATA
Type: Std. Y.S.P. Culvert Dr. 300
Size 12"x 40'
Work Req. Build Y.S.P. encased Culvert
Drawn by: H.C.W.
Date: 7-29-27

EST. QUANTITIES
Excav. 14 cu.yds.
Conc. 1:5½ 2.0 cu.yds.
Conc. 1:8 4.1 cu.yds.
Reinf. Steel 65 lbs.
12" V.S.P. 40 lin ft. (14)

Checked by: H.H.
Date: 8-19-27 Asst. Div. Engr.

Sta. 118+00

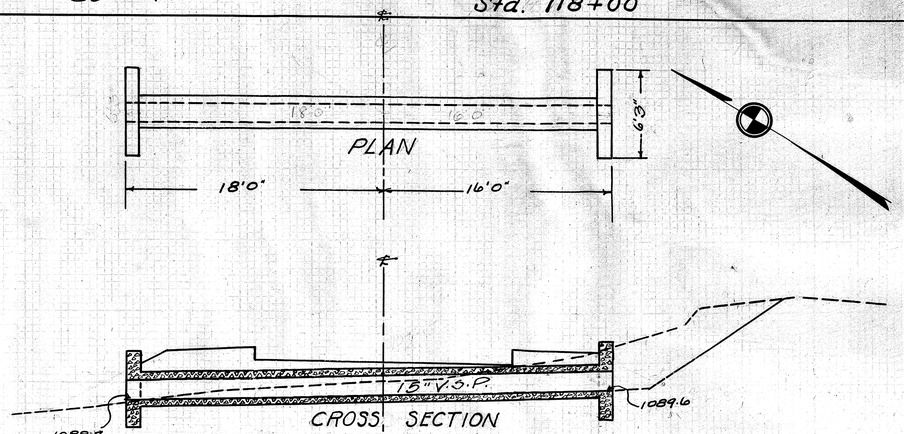


CULVERT DATA
Type: Std conc box Dr 301
Size: 3'x 2'x 34'
Work Req: Build std conc. box culvert
Drawn by: H.C.W.
Date: 7-28-27

EST. QUANTITIES
Excav. 26 cu.yds.
Conc 1:5½ 12.7 cuyds
Reinf. steel 918 lbs. (16)

Sta 125+80

Checked by: H.H.
Date: 8-19-27 Asst. Div. Engr.



CULVERT DATA
Type: Std. V.S.P. culvert Dr. 300
Size: 15"x 34"
Work Req: Build straight 15"x 34' Std enc. V.S.P. culvert
Drawn by: H.C.W.
Date: 7-28-27

EST. QUANTITIES
Excav. 11 cuyds.
Conc 1:5½ 2.3 cuyds
Conc. 1:8 4.16 cuyds
Reinf. steel 70 lbs.
15" V.S.P. 34 lin ft. (17)

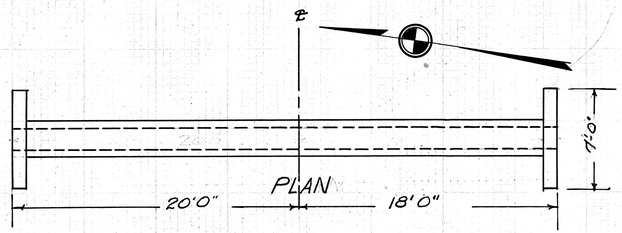
Sta 131+00

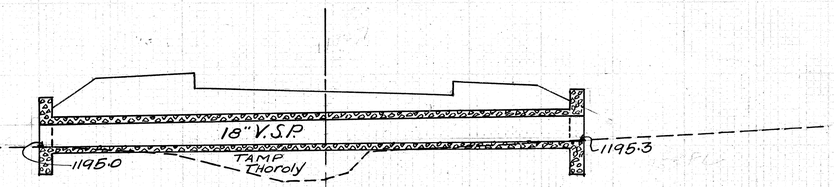
Checked by: H.H.
Date: 8-19-27 Asst. Div. Engr.

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	A51-F	1927

93/113

I.C.H. 377 SEC. J
CARROLL COUNTY.

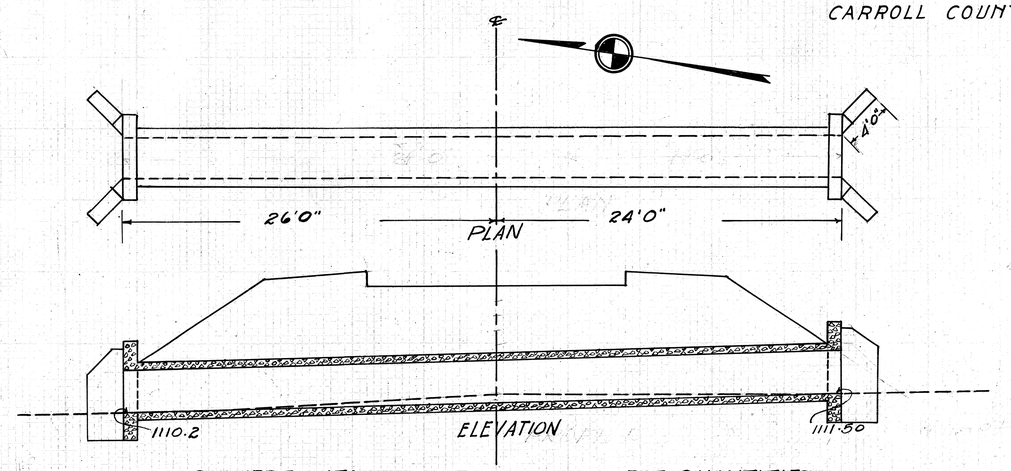




CULVERT DATA
Type: Std. V.S.P. culv. Dr 300
Size: 18" x 38'
Work Req: Build Std enc. V.S.P. culvert
Drawn by: H.C.W.
Date: 7-29-27

EST. QUANTITIES
Excav. 5 cuyds. ✓
Conc 1:5½ 2.7 cuyds. ✓
Conc. 1:8 5.54 cuyds ✓
Reinf. steel 80 lbs. ✓
18" V.S.P 38 lin. ft. ✓ (19)

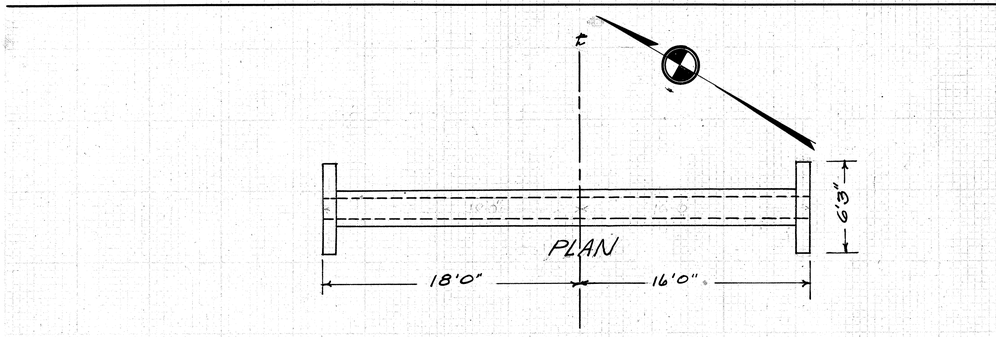
Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27
Sta. 139+00



CULVERT DATA
Type: Std Box Dr 301
Size: 3'x3'x50'
Work Req: Build Std. conc. box culvert
Drawn by: H.C.W.
Date 7-29-27

EST. QUANTITIES
Excav. 10 cuyds. ✓
Conc 1:5½ 20.5 cuyds. ✓
Reinf. Steel 1103 lbs ✓ (21)

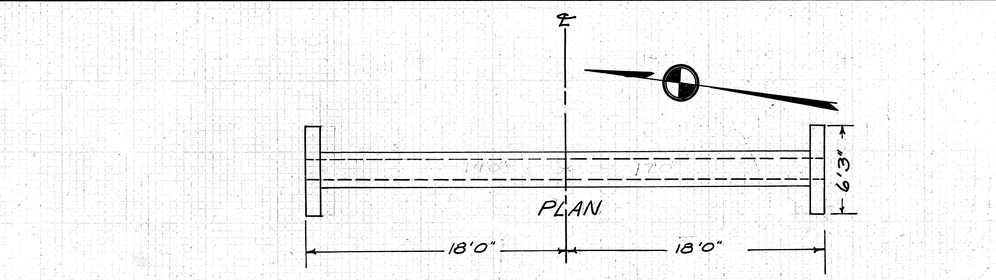
Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27
Sta 148+75



CULVERT DATA
Type: Std V.S.P. culv. Dr 300
Size: 18"x 34'
Work Req: Remove old wood box. Build std enc. V.S.P. culvert
Drawn by: H.C.W.
Date: 7-29-27

EST. QUANTITIES
Excav. 25 cu.yds. ✓
Conc. 1:5½ 2.7 cu.yds ✓
Conc. 1:8 4.9 cu.yds. ✓
Reinf. Steel 80 lbs. ✓
18" V.S.P. 34 lin ft ✓ (18)

Sta 134+05
Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



CULVERT DATA
Type: Std. V.S.P. Culv. Dr 300
Size: 15" x 36'
Work Req.: Build Std enc. V.S.P. culvert
Drawn by: H.C.W.
Date 7-29-27

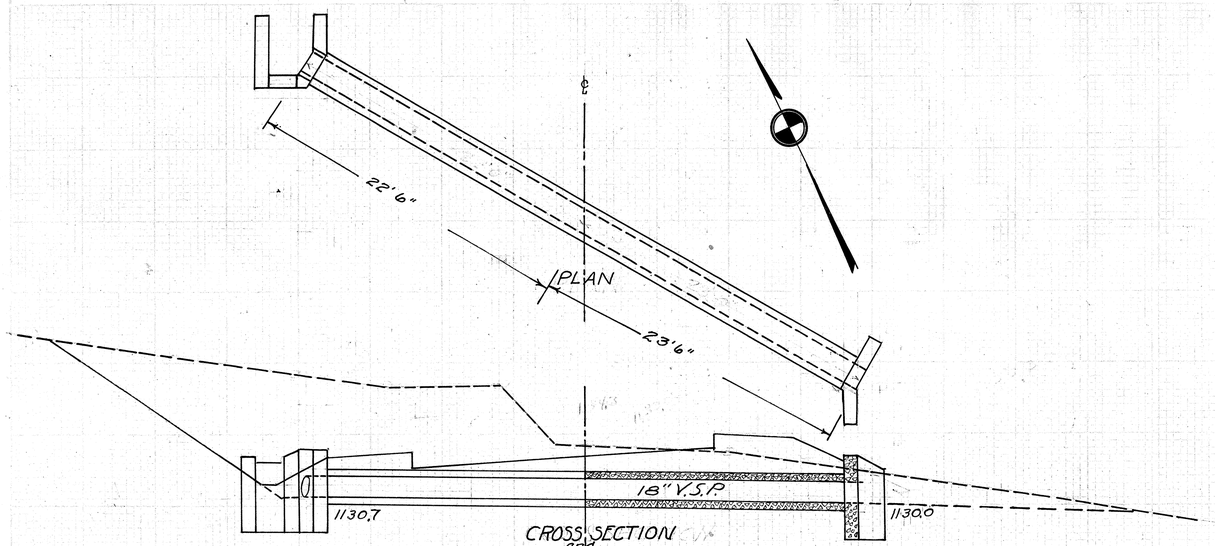
EST. QUANTITIES
Excav. 5 cu.yds ✓
Conc. 1:5½ 2.3 cu.yds. ✓
Conc. 1:8 4.4 cu.yds. ✓
Reinf. Steel 70 lbs. ✓
15" V.S.P. 36 lin. ft ✓ (20)

Sta 141+50
Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

94/113

I.C.H. 377 SEC. J
CARROLL COUNTY.



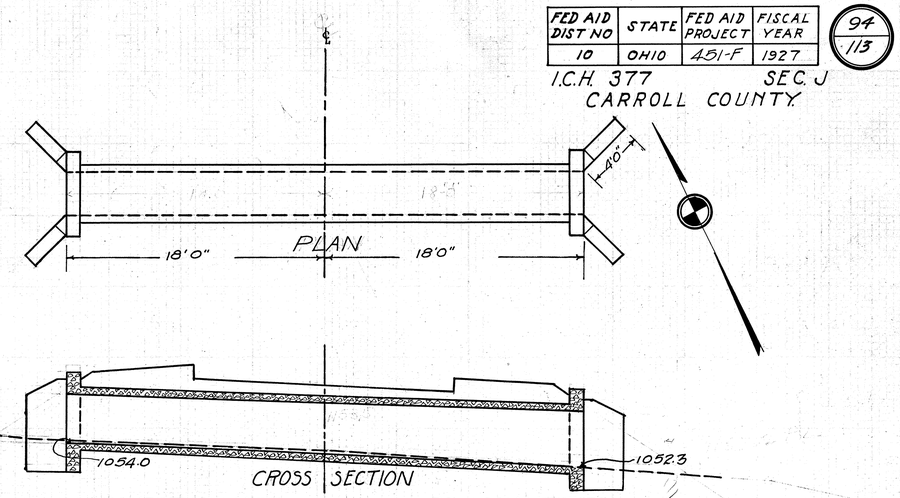
CROSS SECTION and ELEVATION

CULVERT DATA
Type: Std V.S.P hillside culv. Dr 300
Size: 18"x46'
Work Req: Build new std. V.S.P. hillside culvert
Drawn by H.C.W. Date 7-29-27
Checked By: H.H. Asst. Div. Engr. Date

EST. QUANTITIES
Excav.	32 cu.yds.
Conc. 1:5½	3.0 cu.yds.
Conc. 1:8	68 cu.yds.
Reinf. steel	45 lbs.
18" V.S.P.	46 lin.ft.

(24)

Sta. 161+00



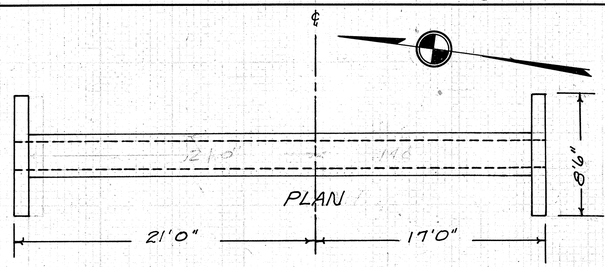
CROSS SECTION

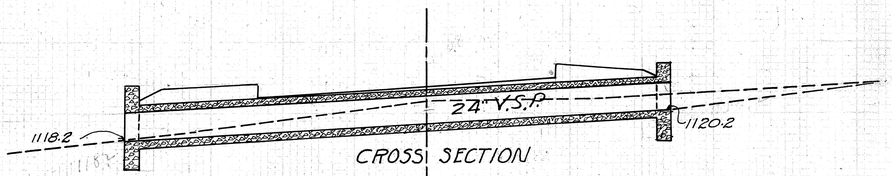
CULVERT DATA
Type: Std. conc. box Dr 301
Size: 3'x3'x36'
Work Req: Build new std. conc. box.
Drawn by H.C.W. Date 7-29-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27

EST. QUANTITIES
Excav.	8 cu.yds.
Conc. 1:5½	16.27 cu.yds.
Reinf. steel	806 lbs.

(26)

Sta 172+40





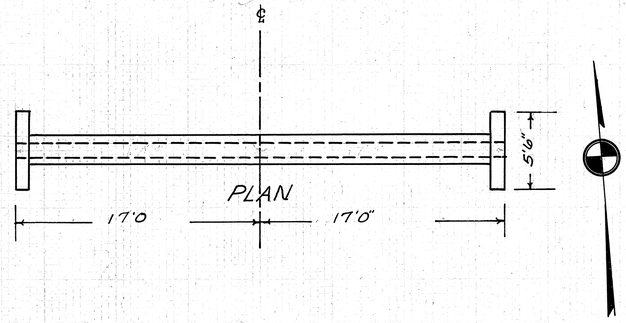
CROSS SECTION

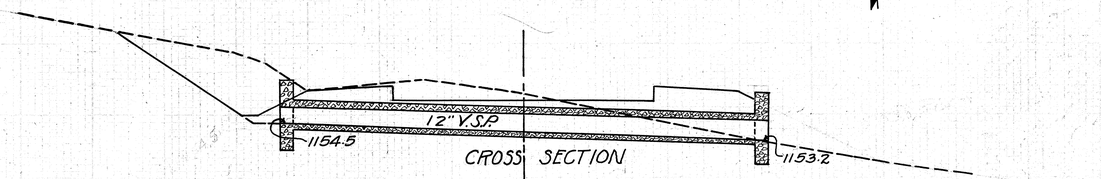
CULVERT DATA
Type: Std. V.S.P. culv. Dr 300
Size: 24"x38'
Work Req: Build new std. enc. V.S.P. culvert
Drawn by H.C.W. Date 7-29-27
Checked by: H.H. Asst. Div. Engr. Date 8-19-27

EST. QUANTITIES
Excav.	16 cu.yds.
Conc. 1:5½	3.5 cu.yds.
Conc. 1:8	7.4 cu.yds.
Reinf. steel	105 lbs
24" V.S.P.	38 lin.ft.

(22)

Sta 155+92





CROSS SECTION

CULVERT DATA
Type: Std. V.S.P. culv. Dr 300
Size: 12"x34'
Work Req: Build new std. enc. V.S.P. culvert
Drawn by H.C.W. Date 7-29-27
Checked by: H.H. Asst. Div. Engr. Date. 8-19-27

EST. QUANTITIES
Excav.	12 cu.yds.
Conc. 1:5½	2.0 cu.yds
Conc. 1:8	3.46 cu.yds.
Reinf. steel	65 lbs.
12" V.S.P.	34 lin.ft.

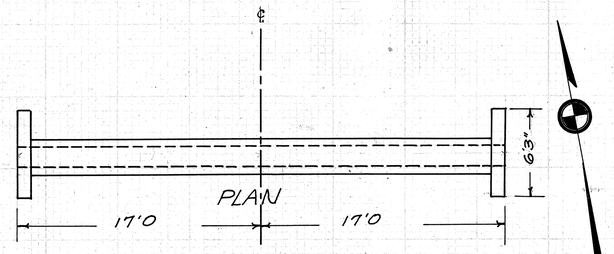
(25)

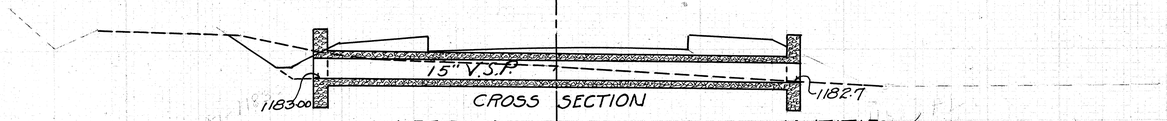
Sta 166+50

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451 F	1927

95/113

I.C.H. 377 SEC. J
CARROLL COUNTY

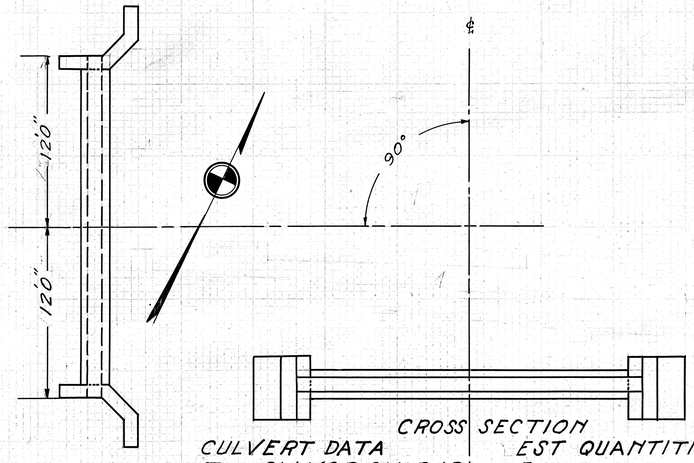




CULVERT DATA
Type: Std. V.S.P. culv. Dr. 300
Size: 15" x 34'
Work Req: Build std. enc. V.S.P. culvert

EST. QUANTITIES
Excav. 11 cu. yds.
Conc. 1:5½ 2.3 cu. yds.
Conc 1:8 4.2 cu. yds.
Reinf. Steel 701 lbs.
15" V.S.P. 34 lin. ft.

Drawn by H.C.W. Date 7-29-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta 184+40 (29)

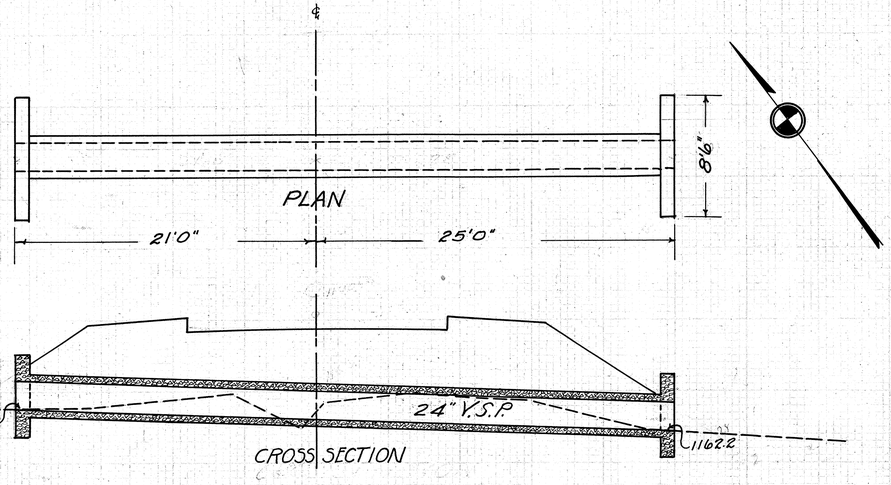


CROSS SECTION

CULVERT DATA
Type: Std. Y.S.P. Side Rd. Dr. 300
Size 12" x 24'
Work Req. Build Std Y.S.P. encased Side Road Culvert

EST QUANTITIES
Excav. 5 cu. yds.
Conc. 1:5½ 2.6 cu. yds.
Conc. 1:8 2.4 cu. yds.
Reinf. Steel 65 lbs.
12" Y.S.P. 24 lin. ft. (27)

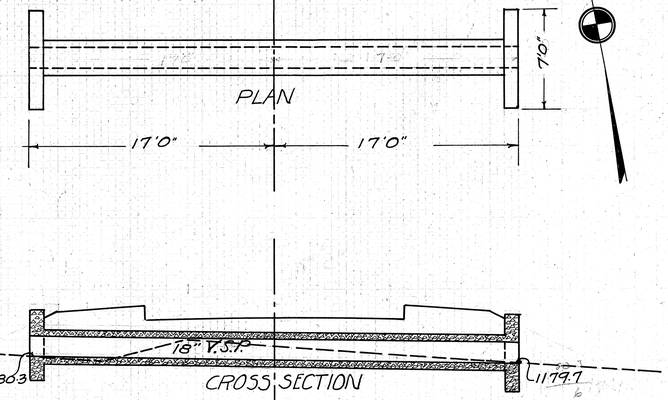
Drawn by H.C.W. Date 7-29-27
Checked by H.H. Asst. Div. Engr. Date: 8-19-27
Sta. 173+00



CULVERT DATA
Type: Std. V.S.P. culvert Dr. 300
Size: 24" x 46'
Work Req: Remove 15" x 18' corr. pipe. Build new std. enc. V.S.P. culvert

EST. QUANTITIES
Excav. 20 cu. yds.
Conc. 1:5½ 3.5 cu. yds.
Conc. 1:8 9.1 cu. yds.
Reinf. steel 105 lbs.
24" V.S.P. 46 lin. ft. (28)

Drawn by H.C.W. Date 7-29-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta 177+65



CULVERT DATA
Type: Std. V.S.P. culv. Dr. 300
Size: 18" x 34'
Work Req: Build new std. V.S.P. enc. culvert

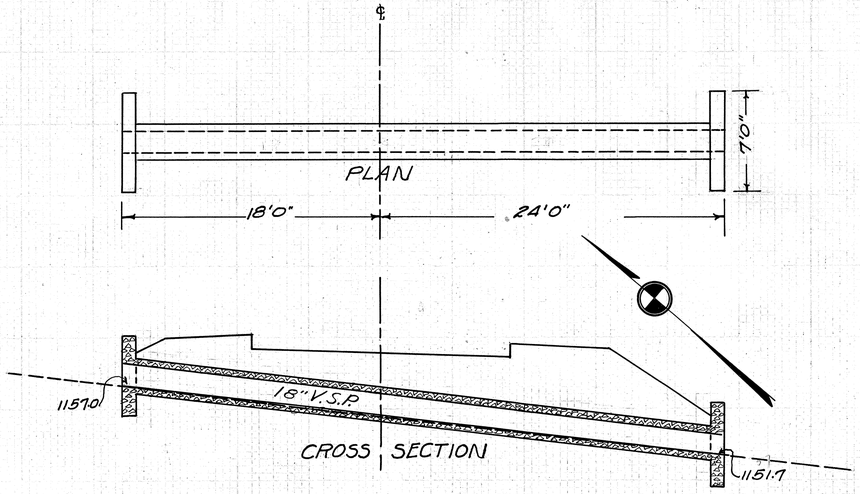
EST. QUANTITIES
Excav. 9 cu. yds.
Conc. 1:5½ 2.7 cu. yds.
Conc. 1:8 4.9 cu. yds.
Reinf. steel 801 lbs.
18" V.S.P. 34 lin. ft (30)

Drawn by H.C.W. Date 7-29-27
Checked by H.H. Asst. Div. Engr. Date: 8-19-27
Sta 189+70

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451 F	1927

96
113

I.C.H. 377 SEC J
CARROLL COUNTY

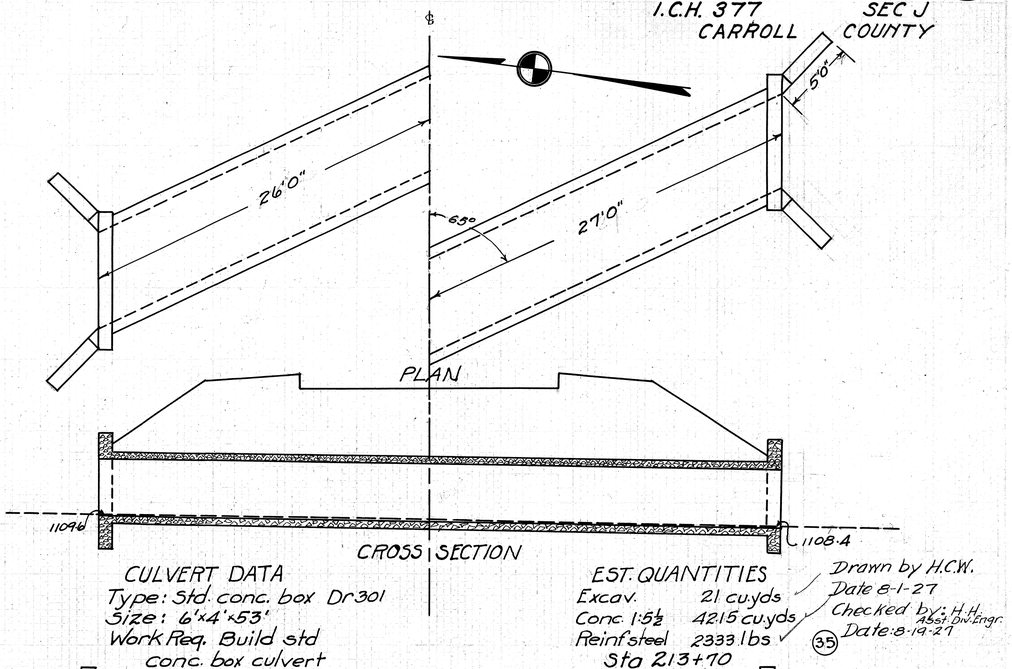


CULVERT DATA
Type: Std V.S.P. culvert Dr 300
Size: 18"x42'
Work Req: Build std. encased V.S.P. culvert

EST. QUANTITIES
Excav. 6 cu.yds.
Conc 1:5½ 2.7 cu.yds.
Conc 1:8 6.2 cu.yds.
Reinf. steel 80 lbs.
18" V.S.P. 42 lin.ft.

(32)

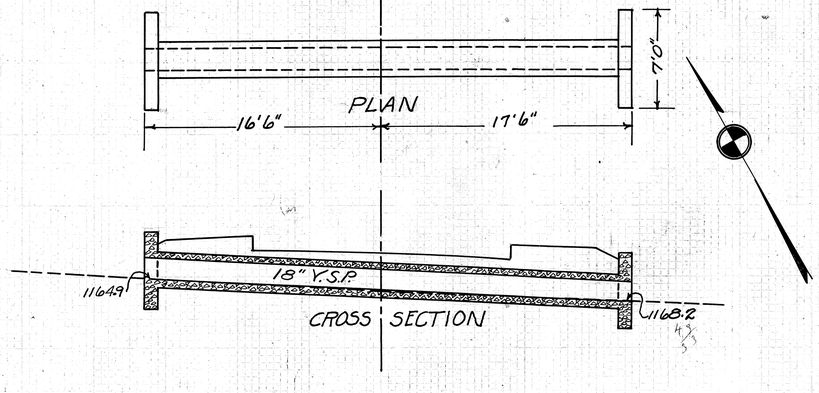
Drawn by H.C.W. Date 8-1-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta 200+50



CULVERT DATA
Type: Std. conc. box Dr 301
Size: 6'x4'x53'
Work Req. Build std conc. box culvert

EST. QUANTITIES
Excav. 21 cu.yds
Conc 1:5½ 42.15 cu.yds
Reinf. steel 2333 lbs
(35)

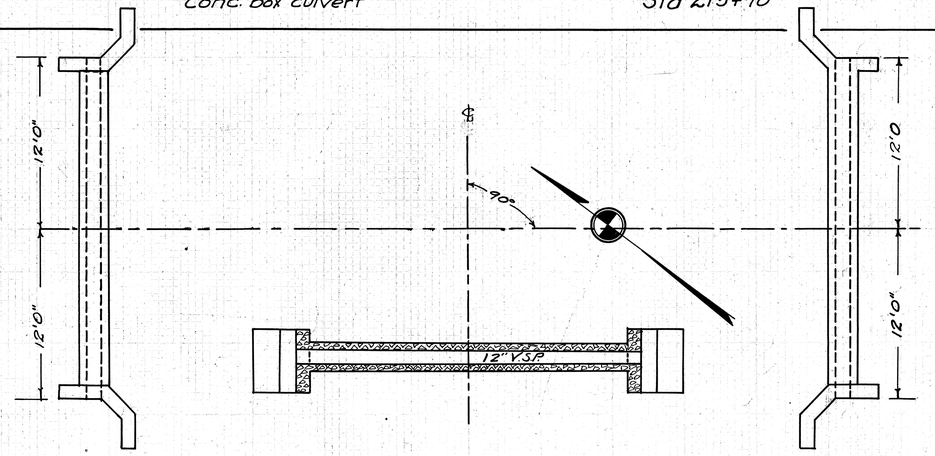
Drawn by H.C.W. Date 8-1-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta 213+70



CULVERT DATA
Type: Std. V.S.P culvert
Size: 18"x34'
Work Req: Build std encased V.S.P. culvert.

EST. QUANTITIES
Excav. 5 cu.yds.
Conc. 1:5½ 2.7 cu.yds.
Conc 1:8 4.9 cu.yds
Reinf. steel 18" V.S.P. 80 lbs. 34 lin ft
(31)

Drawn by H.C.W. Date 8-1-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta 194+35



(33)
CULVERT DATA
Type: Std V.S.P. side road culv. Dr 300
Size: 12"x24"
Work Req: Build 2 std conc. V.S.P. side road culverts

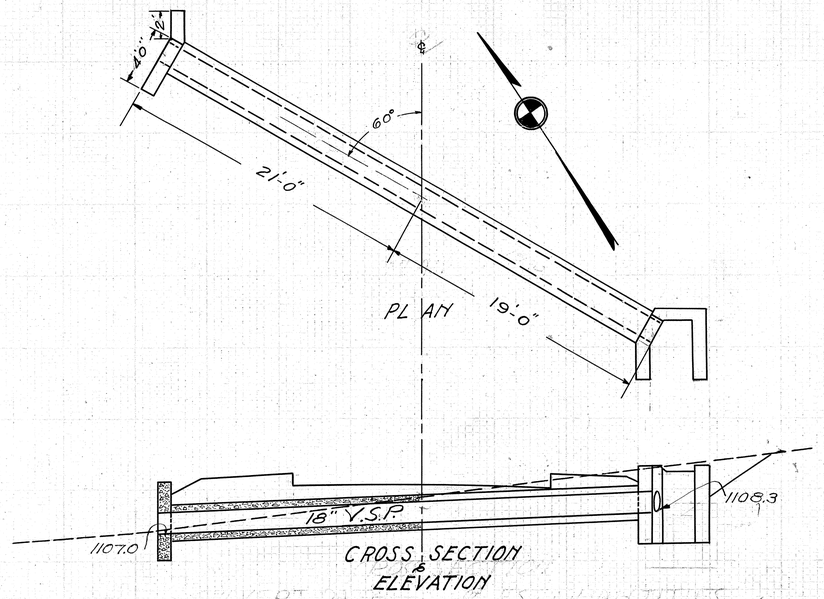
EST. QUANTITIES
Excav. 10 cu.yds
Conc. 1:5½ 5.2 cu.yds.
Conc. 1:8 4.8 cu.yds
Reinf. steel 120 lbs
12" V.S.P. 48 lin.ft.
(34)

Drawn by H.C.W. Date 8-1-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta 206+30

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

97/113

I.C.H. 377 SEC. J
CARROLL COUNTY.

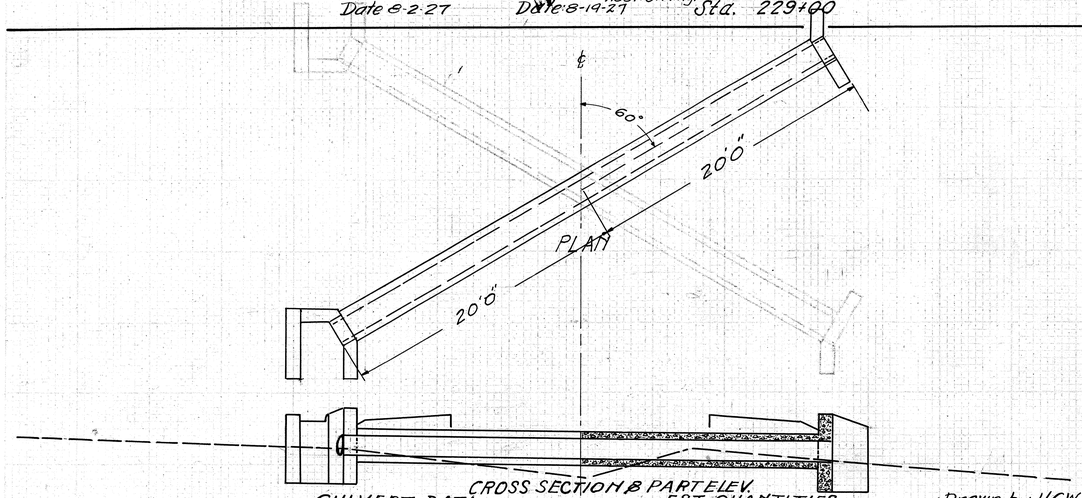


CULVERT DATA
Type Std V.S.P Hillside Culv. Dr. 300
Size 18" x 40'
Work Req. Build encased Std V.S.P. Hillside culvert.

EST. QUANTITIES
Excav. 15 cu.yds.
Conc. 1:5½ 3 cu.yds.
Conc 1:8 5.85 cuyds.
Reinf. Steel 45 lbs.
18" V.S.P. 40 lin.ft.

(37)

Drawn by H.C.W. Date 8-2-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta. 229+00

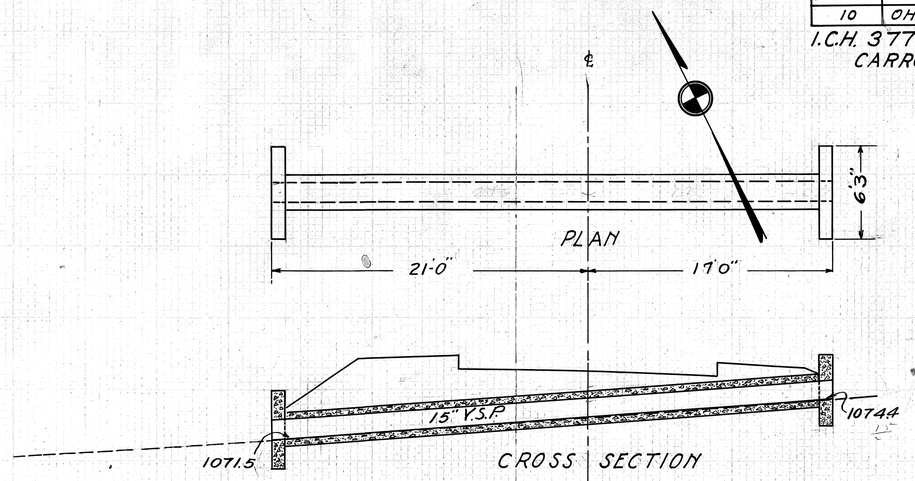


CULVERT DATA
Type: Std. Y.S.P. Hillside Dr. 300
Size 15" x 40'
Work. Req. Build Std. Y.S.P. encased Hillside Culvert.

EST. QUANTITIES
Excav. 6 cu.yds.
Conc. 1:5½ 2.8 cu.yds.
Conc. 1:8 4.9 cu.yds.
Reinf Steel 40 lbs.
15" Y.S.P. 40' lin.ft.

(36)

Drawn by H.C.W. Date 8-2-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta. 219+78

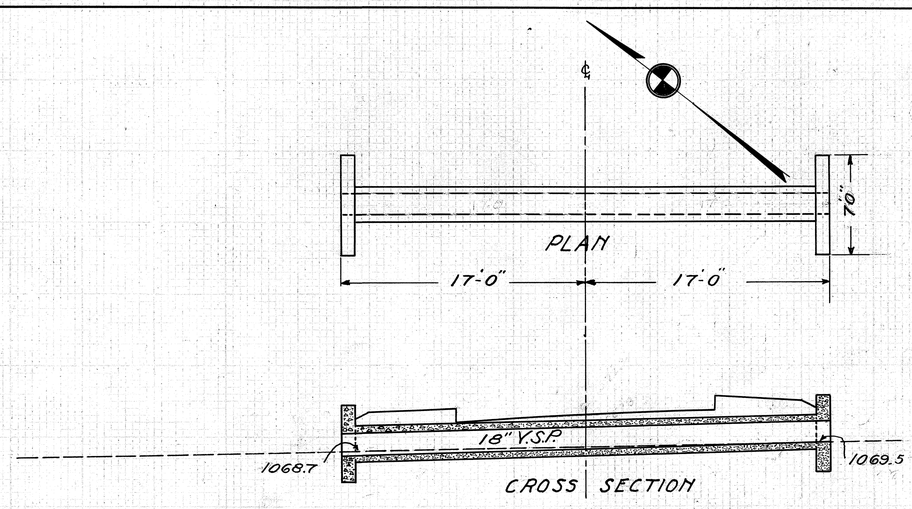


CULVERT DATA
Type: Std V.S.P Culvert Dr. 300
Size 15" x 38'
Work Req: Build Straight
15" x 38' Std. encased Culvert.

EST. QUANTITIES
Excav. 5 cuyds.
Conc 1:5½ 2.3 cuyds.
Conc 1:8 4.7 cuyds.
Reinf Steel 70 lbs.
15" V.S.P. 38 lin ft.

(41)

Drawn by H.C.W. Date 8-2-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta. 260+77



CULVERT DATA
Type: Std. V.S.P Culvert Dr. 300
Size 18" x 34'
Work Req. Build Std 18" x 34' V.S.P. encased culvert.

EST. QUANTITIES
Excav. 5 cu.yds.
Conc 1:5½ 2.7 cu.yds.
Conc. 1:8 4.9 cu.yds.
Reinf. Steel 80 lbs.
18" V.S.P. 34 lin ft.

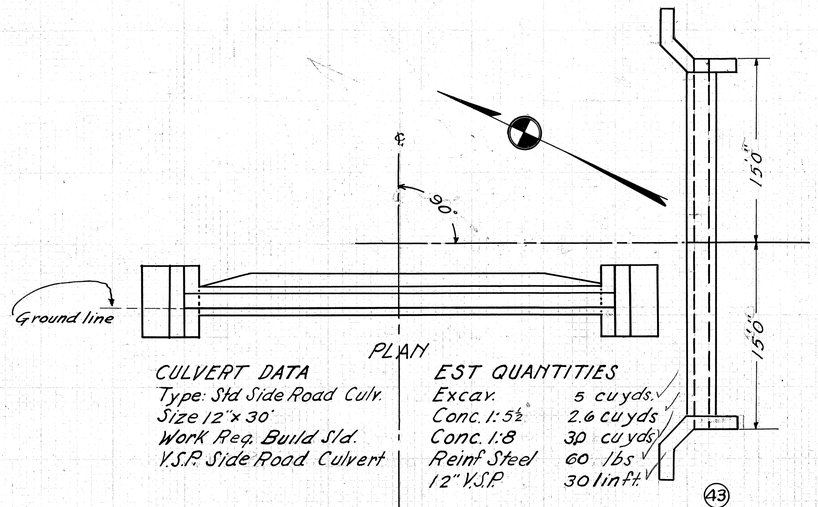
(40)

Drawn by H.C.W. Date 8-2-27
Checked by: H.H. Asst. Div. Engr. Date: 8-19-27
Sta 253+50

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

98/113

I.C.H. 377 SEC. J
CARROLL COUNTY



PLAN

CULVERT DATA
Type: Std Side Road Culv.
Size 12"x 30'
Work Req. Build Std.
Y.S.P. Side Road Culvert

EST QUANTITIES

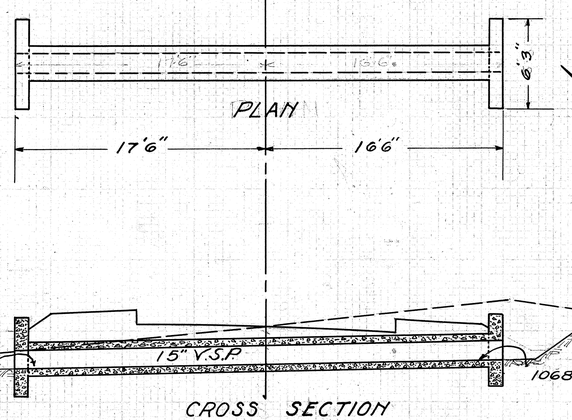
Excav.	5 cu yds.
Conc. 1:5½	2.6 cu yds
Conc. 1:8	30 cu yds
Reinf. Steel	60 lbs
12" V.S.P.	30 lin ft.

(43)

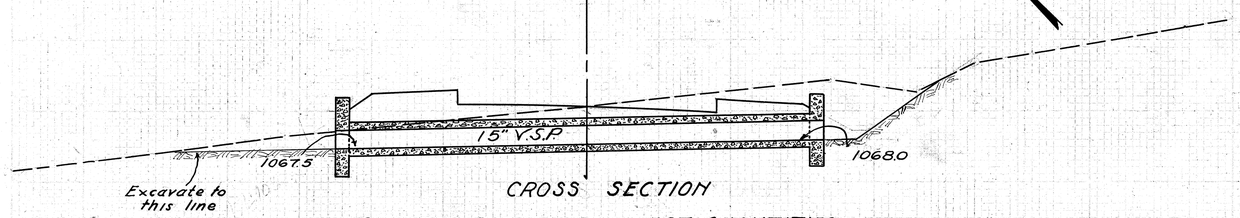
Drawn by H.C.W.
Date 8-2-27

Sta 274+25

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



PLAN



CROSS SECTION

CULVERT DATA
Type: Std. V.S.P. Culvert Dr. 300
Size 15"x 34'
Work Req. Build Std 15"x 34'
V.S.P. encased Culvert.

EST QUANTITIES

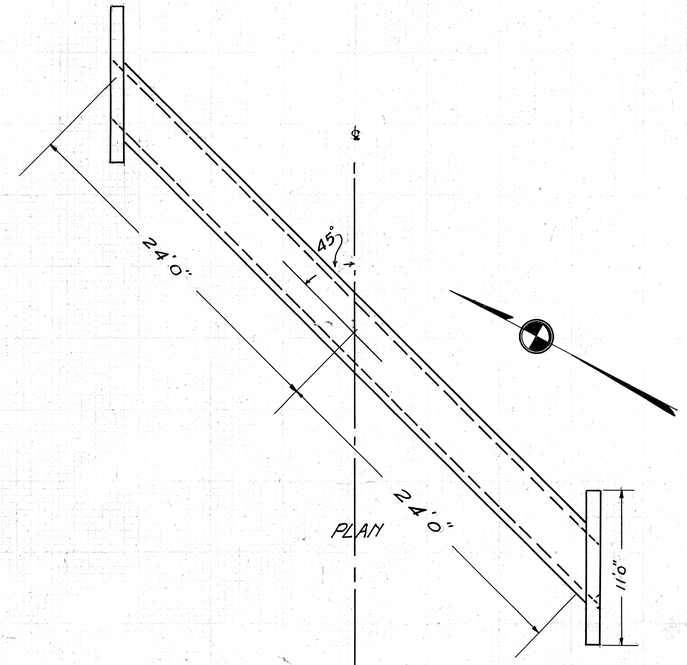
Excav.	18 cu yds.
Concl 1:5½	2.3 cu yds.
Conc. 1:8	4.2 cu yds.
Reinf. Steel	70 lbs.
15" V.S.P.	34 lin ft.

(42)

Drawn by H.C.W.
Date 8-2-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

Sta 267+50



PLAN



CROSS SECTION

CULVERT DATA
Type: Std. Box Dr. 301
Size 3x2x48'
Work Req. Build Std
concrete Box culvert

EST. QUANTITIES

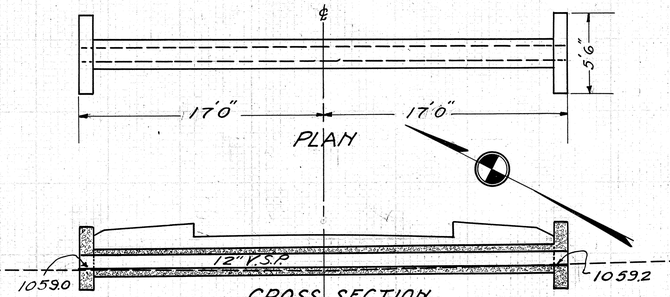
Excav	24 cu yds
Conc 1:5½	17.1 cu yds.
Reinf Steel	998 lbs

(44)

Sta. 277+50

Drawn by H.C.W.
Date 8-2-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



CULVERT DATA
Type: Std Y.S.P Culv. Dr. 300
Siz 12"x 34"
Work Req. Build Std.
encased Y.S.P. Culvert

EST. QUANTITIES

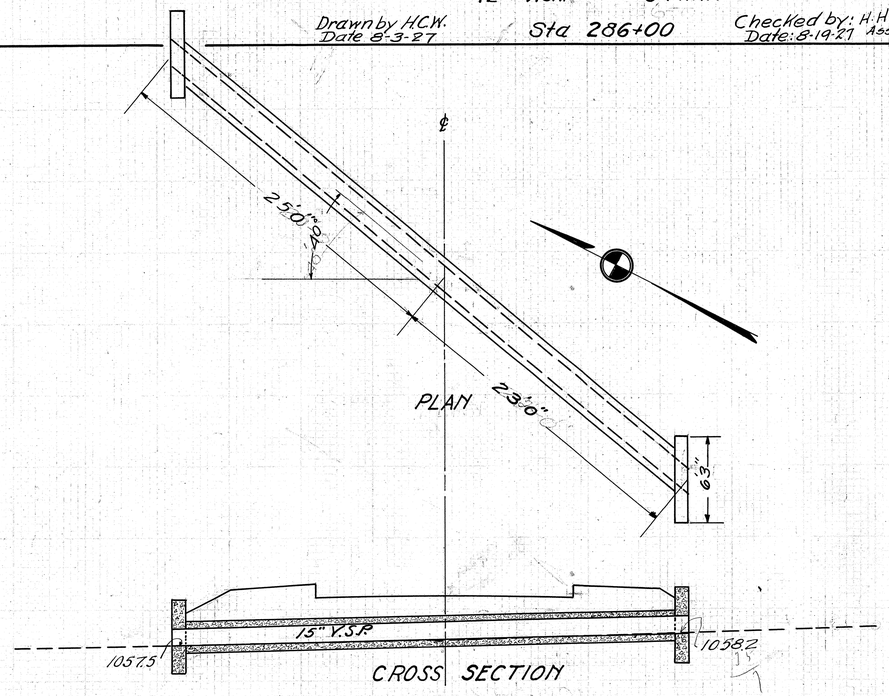
Excav.	5 cu.yds.
Conc. 1: 5½	2.0 cu.yds.
Conc. 1: 8	3.45 cu.yds.
Reinf Steel	65 lbs.
12" V.S.P.	34 lin ft

(46)

Drawn by H.C.W.
Date 8-3-27

Sta 286+00

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



CULVERT DATA
Type: Std. V.S.P Culvert
Size 15"x 48'
Work Req. Build 40° Skew
Std. encased V.S.P Culvert.

EST. QUANTITIES

Excav.	16 cu yds
Conc. 1: 5½	2.3 cu yds.
Conc. 1: 8	6.0 cu yds
Reinf Steel	70 lbs
15" V.S.P.	48 lin ft.

(45)

Sta. 279+25

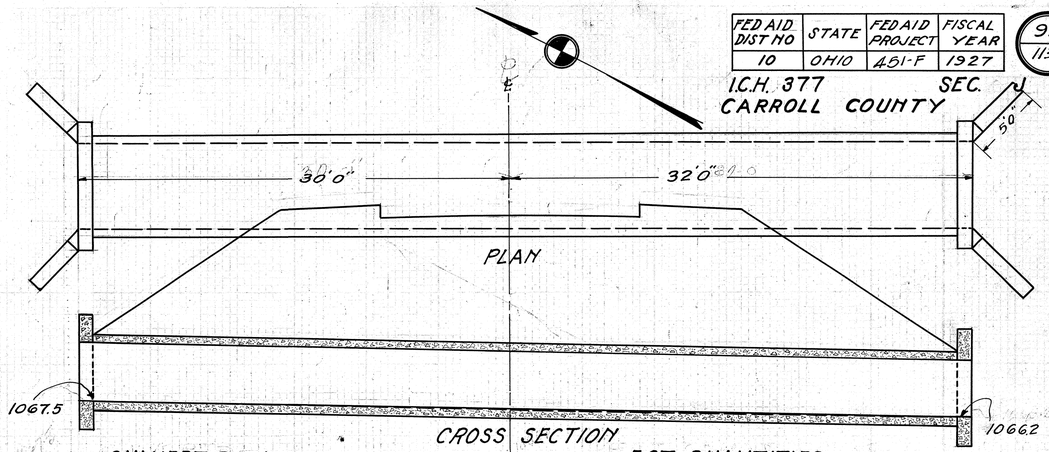
Drawn by H.C.W.
Date 8-3-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

99
113

I.C.H. 377 SEC. J
CARROLL COUNTY



CULVERT DATA
Type Std Box Dr 301
Size 6'x 4'x 62'
Work Req. Build Std.
6'x 4'x 62' Conc Box Culvert

EST. QUANTITIES

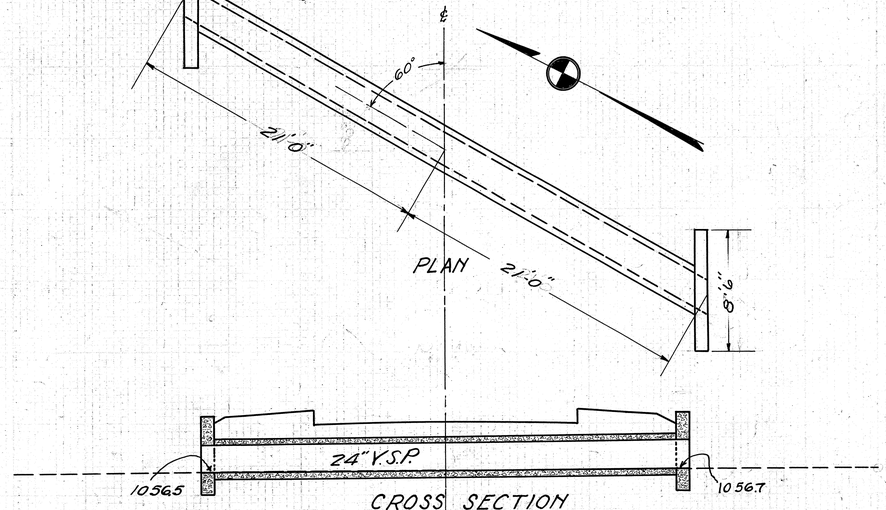
Excav.	23 cu yds
Conc. 1: 5½	48.0 cu yds.
Reinf Steel	2715 lbs

(49)

Drawn by H.C.W.
Date 8-3-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

Sta 309+10



CULVERT DATA
Type: Std V.S.P. Culv. Dr 300
Size 24"x 42'
Work Req. Build 30°
Skew Std V.S.P. encased
Culvert

EST. QUANTITIES

Excav.	12 cu yds
Conc. 1: 5½	3.5 cu yds.
Conc. 1: 8	8.2 cu yds.
Reinf Steel	105 lbs.
24" V.S.P.	42 lin ft.

(47)

STA. 292+40

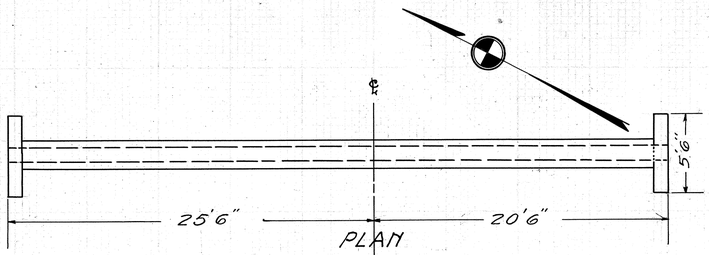
Drawn by H.C.W.
Date 8-3-27

Checked by: H.H.
Date: 8-19-27 Asst. Div. Engr.

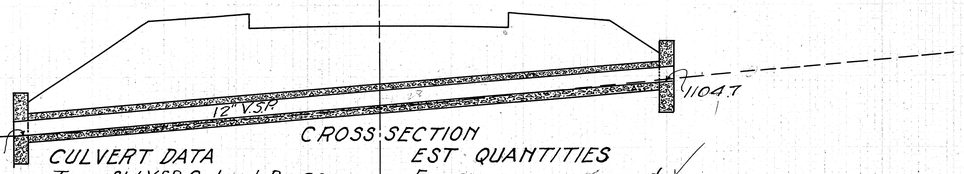
FED AID DIST NO	STATE	FEDAID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

100/113

I.C.H. 377 SEC. J
CARROLL COUNTY



PLAN



CROSS SECTION

CULVERT DATA
Type: Std. V.S.P. Culvert Dr. 300
Size 12"x 46'
Work Req. Build Std V.S.P. encased culvert.

EST QUANTITIES

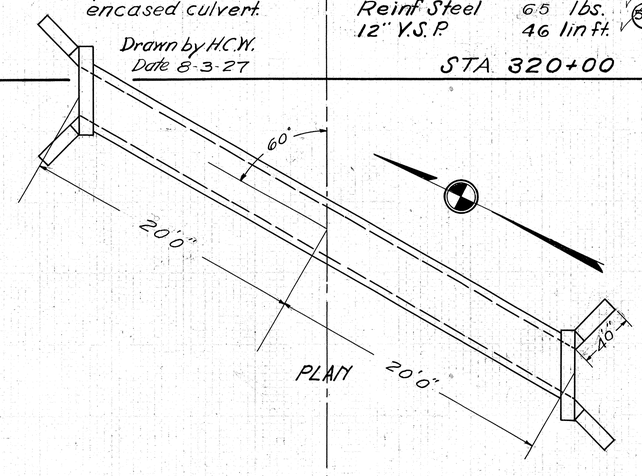
Excav	5 cu yds. ✓
Conc. 1:5½	2.0 cu yds. ✓
Conc. 1:8	4.75 cu yds. ✓
Reinf Steel	65 lbs. ✓
12" V.S.P.	46 lin ft. ✓

(51)

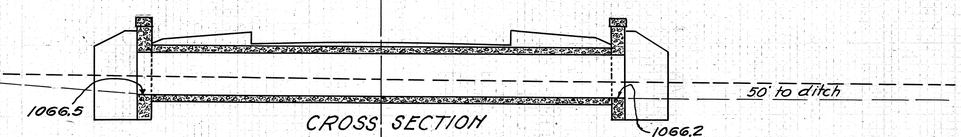
Drawn by H.C.W.
Date 8-3-27

STA. 320+00

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



PLAN



CROSS SECTION

CULVERT DATA
Type: Std Box Dr. 301
Size 3x3x40'
Work Req. Build Std. conc. Box. Culvert

EST. QUANTITIES

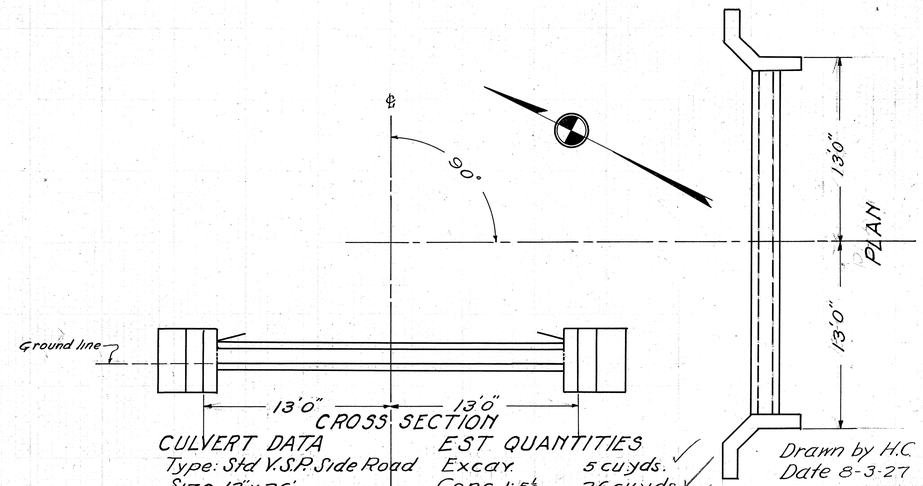
Excav.	20 cu.yds. ✓
Conc 1:5½	17.5 cu.yds. ✓
Reinf Steel	891 lbs. ✓

(50)

Sta. 312+20

Drawn by H.C.W.
Date 8-3-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



CROSS SECTION

PLAN

CULVERT DATA
Type: Std V.S.P. Side Road
Size 12"x 26'
Work Req. Build Std.
V.S.P. encased Culvert

EST. QUANTITIES

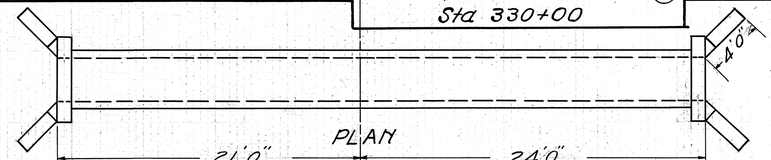
Excav.	5 cu.yds. ✓
Conc. 1:5½	2.6 cu.yds. ✓
Conc. 1:8	2.6 cu.yds. ✓
Reinf Steel 12" V.S.P.	60 lbs. ✓ 26 lin Ft ✓

(53)

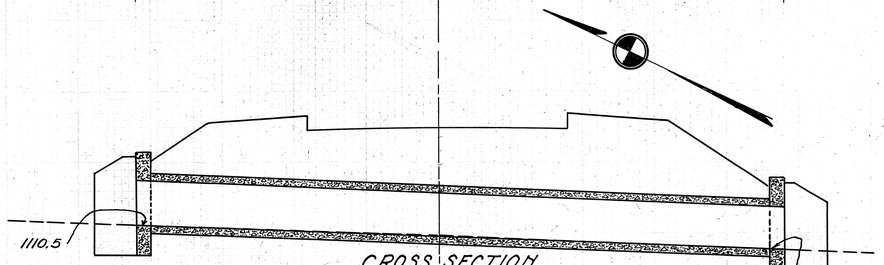
Drawn by H.C.W.
Date 8-3-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

Sta 330+00



PLAN



CROSS SECTION

CULVERT DATA
Type: Std. Box Dr 301
Size 3'x3'x45'
Work Req. Build Std.
Conc. Box Culvert

EST QUANTITIES

Excav.	10 cu.yds. ✓
Conc. 1:5½	19.0 cu.yds. ✓
Reinf Steel	996 lbs ✓

(52)

Sta 328+75

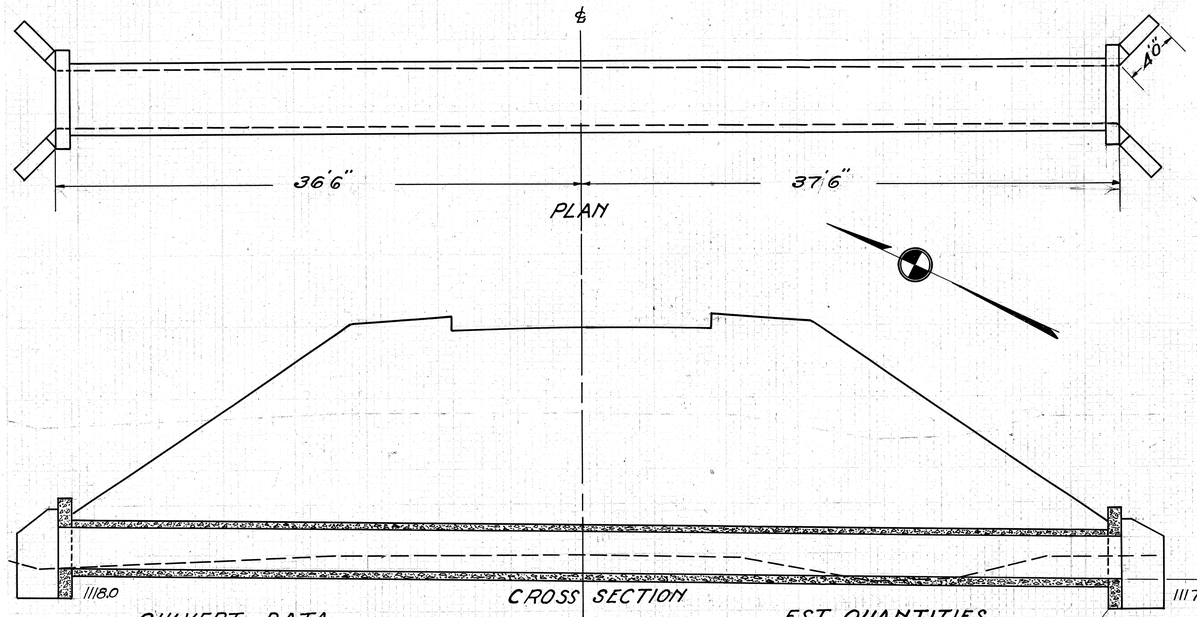
Drawn by H.C.W.
Date 8-3-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

101
113

I.C.H. 377 SEC. J
CARROLL COUNTY

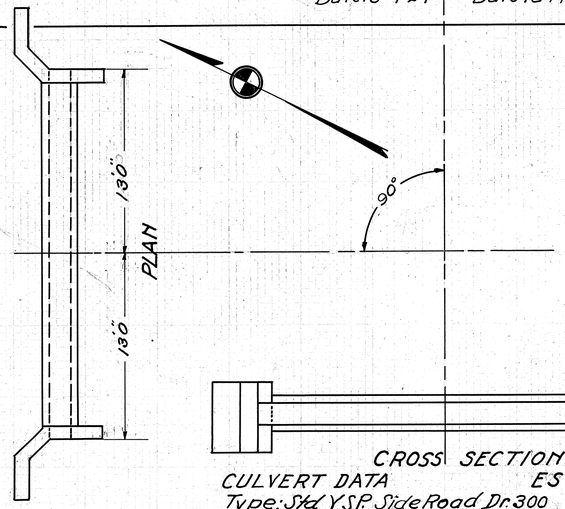


CULVERT DATA
Type: Std. Box Dr. 301
Size 4'x3'x74'
Work Req. Build Std.
Conc. Box Culvert.

EST. QUANTITIES
Excav. 37 cu.yds.
Conc. 1:5½ 32.2 cu.yds.
Reinf. Steel 1903 lbs. (55)

Drawn by: H.C.W. Date: 8-9-27
Checked by: H.H. Date: 8-19-27 Asst. Div. Engr.

Sta. 340+00

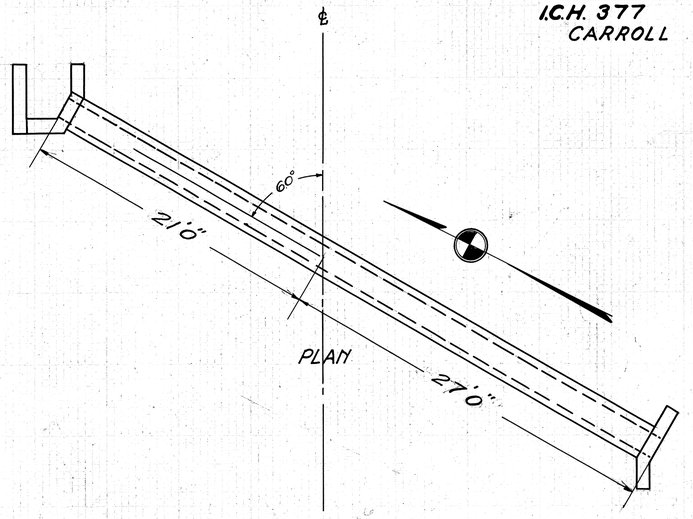


CULVERT DATA
Type: Std. Y.S.P. Side Road Dr. 300
Size 18" x 26'
Work Req. Build Std. V.S.P.
encased Side Road Culvert.

EST. QUANTITIES
Excav. 5 cu.yds.
Conc. 1:5½ 3.3 cu.yds.
Conc 1:8 3.7 cu.yds.
Reinf. Steel 70 lbs.
18" Y.S.P. 26 lin ft. (54)

Drawn by: H.C.W. Date: 8-9-27
Checked by: H.H. Date: 8-19-27 Asst. Div. Engr.

Sta. 330+00



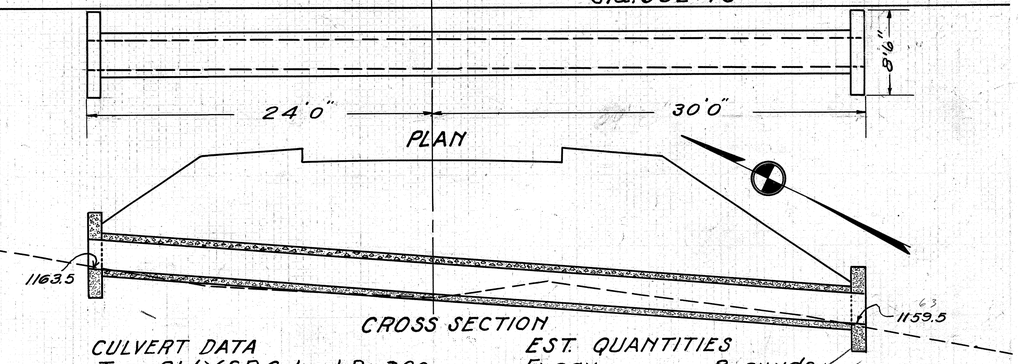
CULVERT DATA
Type: Std. Y.S.P. Hillside Dr. No 300
Size 18"x48'
Work Req. Build Std. V.S.P.
encased Hillside Culvert

PART B ELEV.

EST. QUANTITIES
Excav. 14 cu.yds.
Conc 1:5½ 3 cu.yds.
Conc. 1:8 7.1 cu.yds.
Reinf. Steel 45 lbs.
18" Y.S.P. 48 lin ft. (57)

Drawn by: H.C.W. Date: 8-9-27
Checked by: H.H. Date: 8-19-27 Asst. Div. Engr.

Sta. 352+75



CULVERT DATA
Type: Std. Y.S.P. Culvert Dr. 300
Size: 24"x 54'
Work Req. Build Std
V.S.P. encased Culvert

EST. QUANTITIES
Excav. 8 cu.yds.
Conc 1:5½ 3.5 cu.yds.
Conc. 1:8 10.7 cu.yds.
Reinf. Steel 105 lbs.
24" Y.S.P. 54 lin ft. (56)

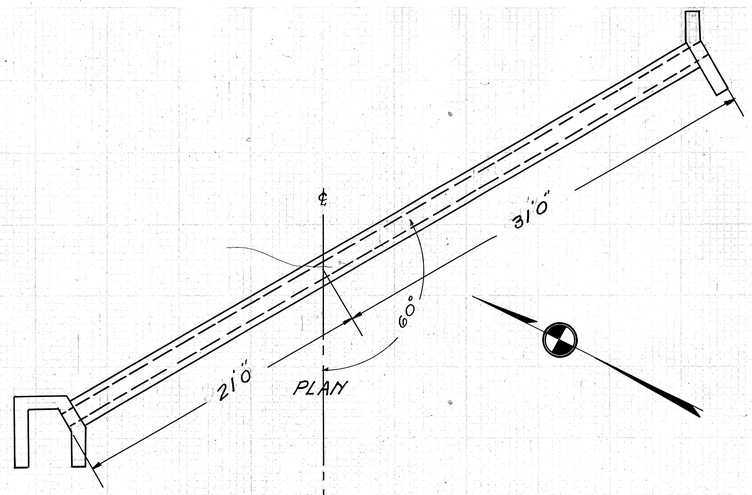
Drawn by: H.C.W. Date: 8-9-27
Checked by: H.H. Date: 8-19-27 Asst. Div. Engr.

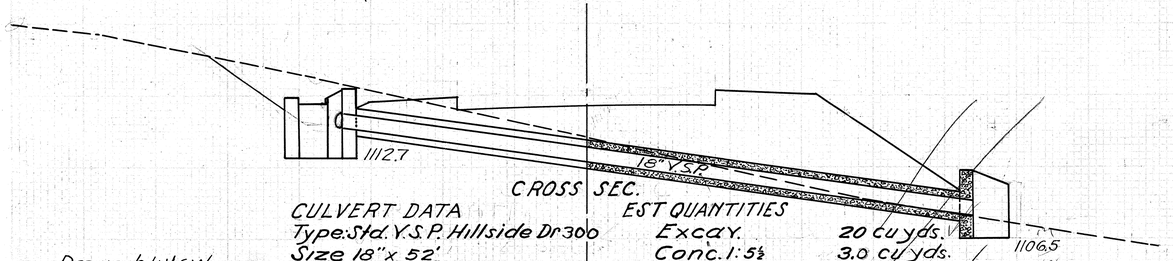
Sta. 347+80

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

102
113

I.C.H. 377 SEC. 1-1
CARROLL COUNTY





CROSS SEC.

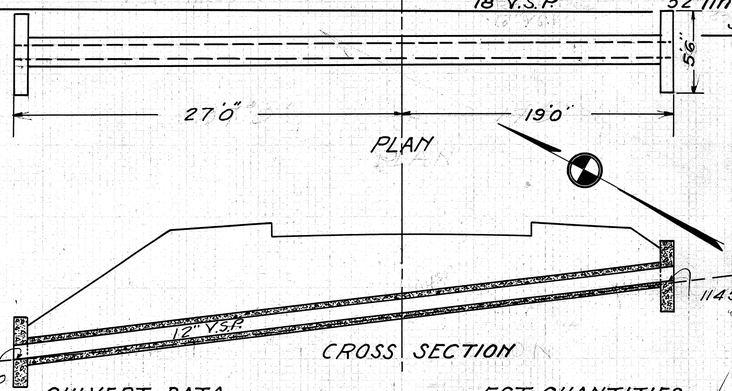
CULVERT DATA
Type: Std. Y.S.P. Hillside Dr 300
Size 18" x 52'
Work Req. Build Y.S.P. encased Hillside Culvert

EST QUANTITIES
Excav. 20 cu yds.
Conc. 1:5½ 3.0 cu yds.
Conc. 1:8 7.7 cu yds.
Reinf Steel 45 lbs
18" Y.S.P. 52 lin ft. (59)

Drawn by: H.C.W.
Date: 8-10-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

Sta 367+75



CROSS SECTION

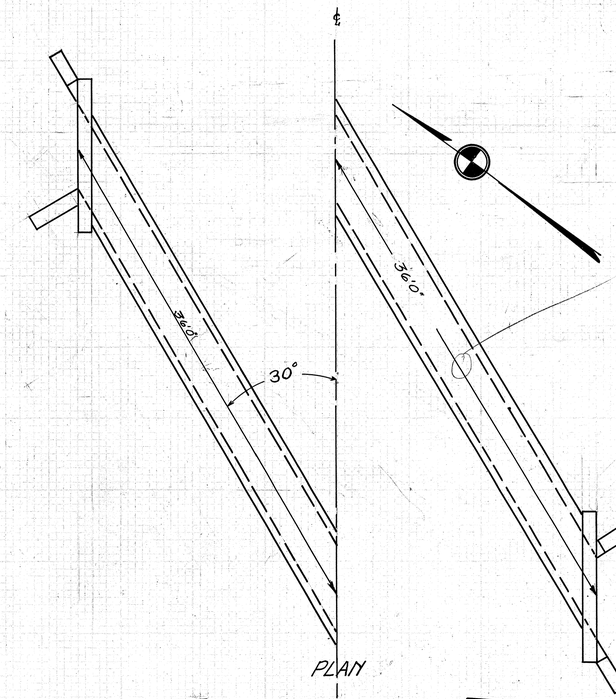
CULVERT DATA
Type: Std Y.S.P. Culvert Dr. 300
Size 12" x 46'
Work Req. Build Std. Y.S.P. encased Culvert

EST QUANTITIES
Excav. 5 cu. yds.
Conc 1:5½ 2.0 cu yds
Conc 1:8 4.75 cu yds.
Reinf. Steel 65 lbs.
12" Y.S.P. 46 lin ft. (58)

Sta. 362+75

Drawn by H.C.W.
Date: 8-10-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



CROSS SECTION

CULVERT DATA
Type: Std. Box Drawing 301
Size 4'x3'x72'
Work Req. Build Std. Concrete Box Culvert

EST. QUANTITIES
Excav. 20 cu yds.
Conc 1:5½ 31.5 cu. yds.
Reinf Steel 1853 lbs. (60)

STA. 372+90

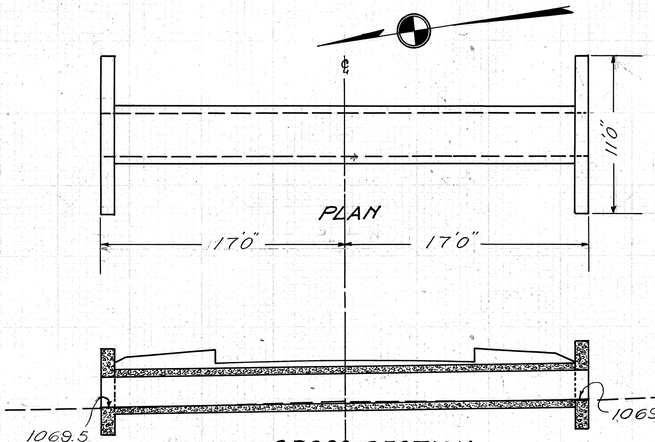
Drawn by: H.C.W.
Date: 8-10-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

103 / 113

I.C.H. 377 SEC. 1-1
CARROLL COUNTY



CROSS SECTION

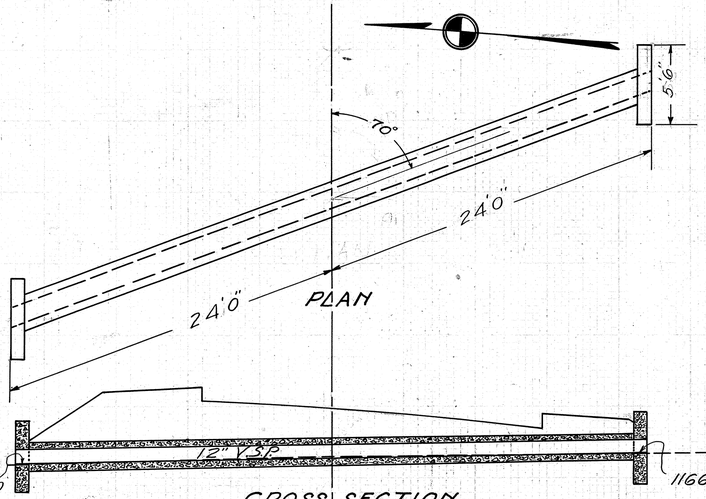
CULVERT DATA
Type: Std Box Dr. 301
Size 3'x2'x34'
Work Req Build Std conc Box Culvert
Drawn by: H.C.W.
Date: 8-10-27

EST QUANTITIES
Excav. 7 cu.yds.
Conc. 1:5½ 12.65 cu.yds.
Reinf Steel 728 lbs. (62)

Sta. 385+30

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

385+30



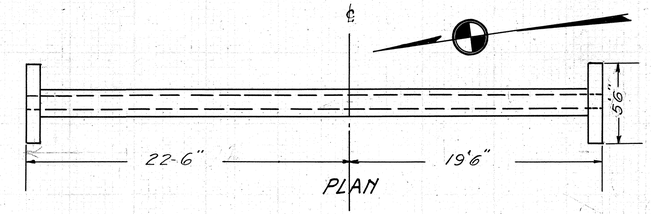
CROSS SECTION

CULVERT DATA
Type: Std V.S.P. Culvert Dr. 300
Size 12"x 48'
Work Req. Build Std. V.S.P. encased Culvert.
Drawn by: H.C.W.
Date: 8-10-27

EST. QUANTITIES
Excav. 5 cu.yds.
Conc. 1:5½ 20 cu.yds.
Conc 1:8 5 cu.yds.
Reinf. Steel 65 lbs.
12" V.S.P. 48 linft. (61)

Sta. 379+90

Checked by: H.H.
Date: 8-19-27 Asst. Div. Engr.



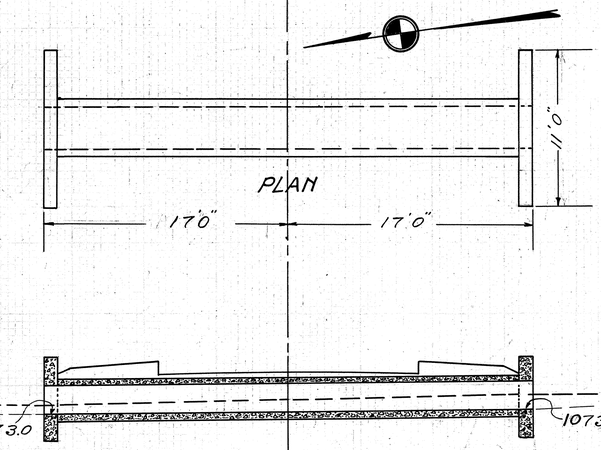
CROSS SECTION

CULVERT DATA
Type: Std. Y.S.P Dr. 300
Size 12"x 40'
Work Req. Build Std V.S.P encased culvert
Drawn by: H.C.W.
Date 8-11-27

EST. QUANTITIES
Excav. 10 cu.yds.
Conc 1:5½ 20 cu.yds.
Conc 1:8 41 cu.yds.
Reinf. Steel 65 lbs.
12" Y.S.P. 40 linft. (64)

Sta. 397+50

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27



CROSS SECTION

CULVERT DATA
Type: Std. Box Dr. 300
Size 3'x2'x34'
Work Req. Build Std. 3'x2'x34' Box Culvert
Drawn by: H.C.W.
Date: 8-11-27

EST QUANTITIES
Excav. 24 cu.yds.
Conc 1:5½ 12.65 cu.yds.
Reinf Steel 728 lbs
(63)

Sta. 389+40

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

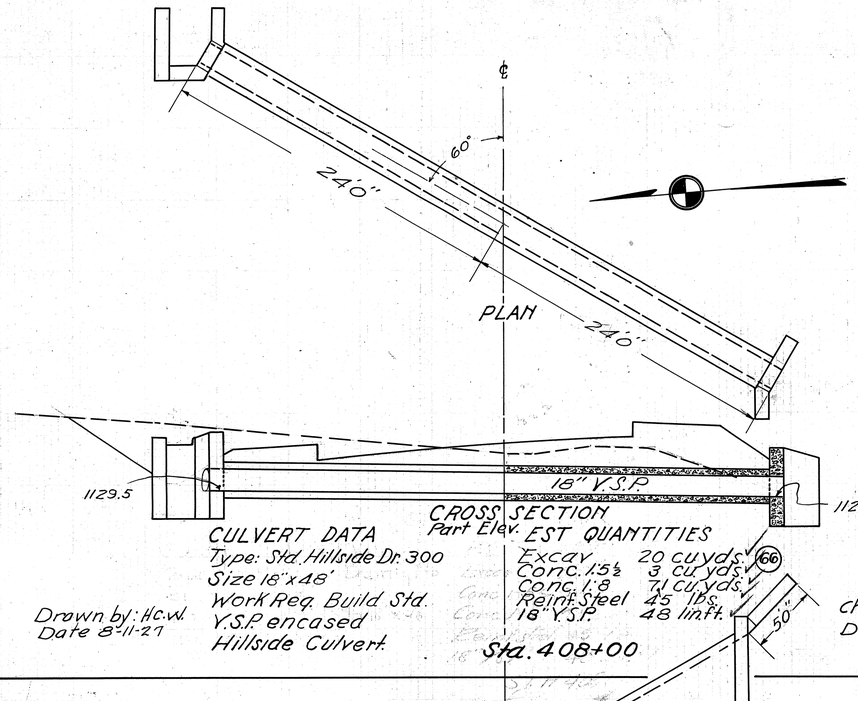
Culvert Sheet

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

104/113

I.C.H. 377 SEC. 1-1

CARROLL COUNTY.



CROSS SECTION

CULVERT DATA
Type: Std. Hillside Dr. 300
Size 18"x48'
Work Req. Build Std.
Y.S.P. encased
Hillside Culvert.

Part Elev. EST QUANTITIES

Excav.	20 cu yds.
Conc. 1:5½	3 cu yds.
Conc. 1:8	7.1 cu yds.
Reinf. Steel	45 lbs.
18" Y.S.P.	48 lin ft.

(66)

Drawn by: H.C.W.
Date 8-11-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27

Sta. 408+00

CROSS SECTION

CULVERT DATA
Type: Std. Box Dr. 301
Size 4x4x40'
Work Req. Build Std.
conc. Box Culvert.

EST. QUANTITIES.

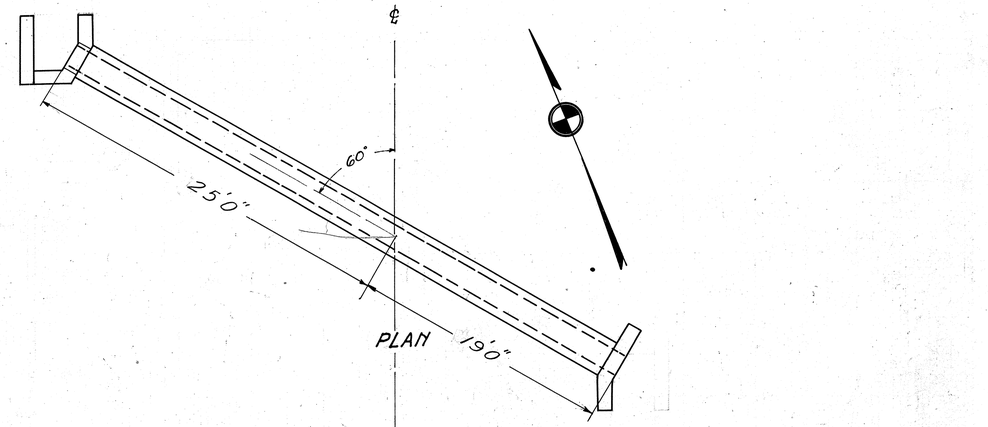
Excav.	25 cu yds.
Conc 1:5½	25.9 cu yds.
Reinf Steel	1172 lbs.

(65)

Sta. 401+60

Drawn by: H.C.W.
Date: 8-11-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27.



CROSS SECTION

CULVERT DATA
Type: Y.S.P. Hillside Dr 300
Size 18"x44'
Work Req. Build Std Y.S.P.
encased Hillside Culvert

PART ELEV. EST. QUANTITIES

Excav	31 cu. yds.
Conc 1:5½	3.0 cu. yds.
Conc 1:8	6.5 cu. yds.
Reinf Steel	45 lbs.
18" Y.S.P.	44 lin. ft.

(67)

Drawn by: H.C.W.
Date: 8-11-27

Checked by: H.H. Asst. Div. Engr.
Date: 8-19-27.

Sta. 414+00

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	461-F	1927

103
113

I.C.H. 377 SEC. J
CARROLL COUNTY

NOTE:- ~~S Bars from No S7a1 to S7a 23 to be cut in field to fit Skew~~
Camber:- Permanent camber under full dead load not req'd but care shall be taken to avoid sag.

Place two layers of ½" Prem. Exp. Joint material at the four corners of Bridge to separate Wings from Superstructure

E Abut. 1028.69 W. " 1029.72
East Abut. Elev. 1026.48 West " " 1027.31
East Abut. Elev. 1026.86 West " " 1027.02
E Abut 1029.07 W " 1029.23
13'3½"
T2a
K4a Staggered 12" Ctrs.
W5a
W5a1
3" Weep Holes
F4a on line of skew 1'-6" Ctrs.
16"
6'0"
3'0"
6"

ELEVATION OF ABUTMENT

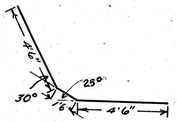
SIDE ELEVATION

Ground Line
Construction joint along this line
R2a
R2a1
T2a1
27'10"
5'5½"
5'5½"
5'5½"
12"
3"
1'6"
2½"
1½"
1'6"
2'10½"
2'10½"
2'10½

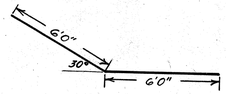
FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

106
115

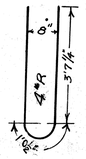
I.C.H. 377 SEC. J
CARROLL COUNTY



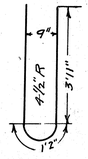
W5a Bars



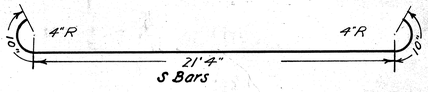
W5a1 Bars

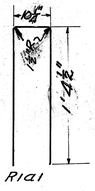


D5A Bars



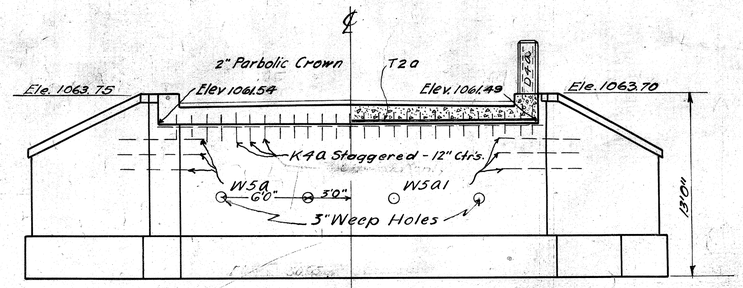
D4a Bars



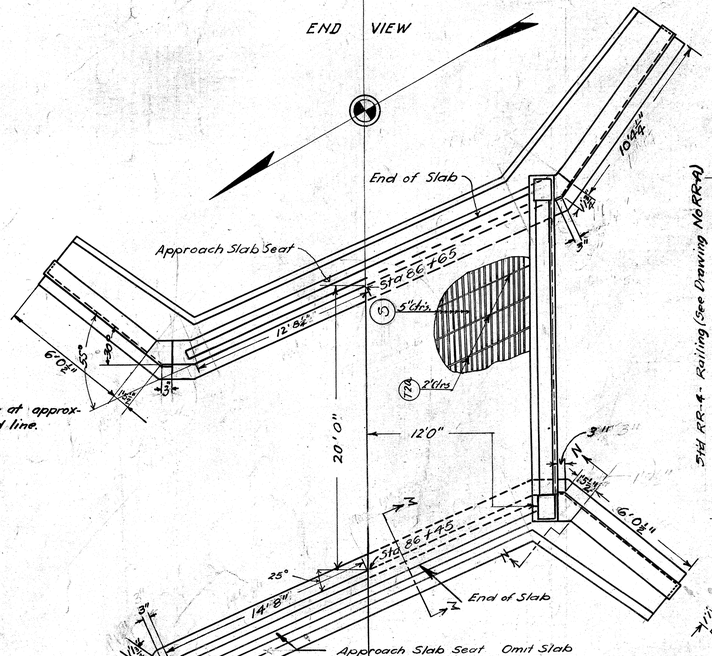


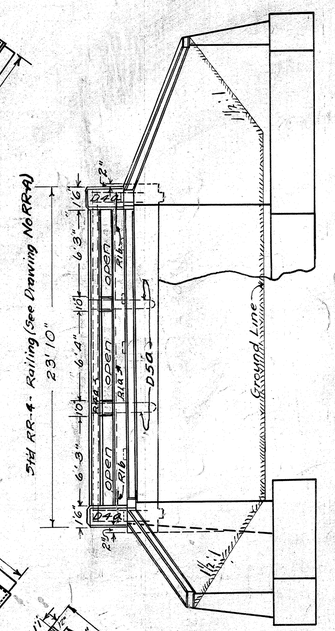
NOTES

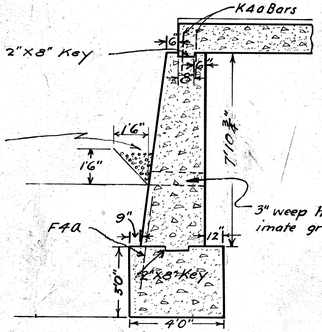
All Reinforcing Steel to be not less than 1½" from outside surface, except S16b bars, See Sec. C-C
Camber :- Permanent Camber under full dead load not req'd but care shall be taken to avoid sag.



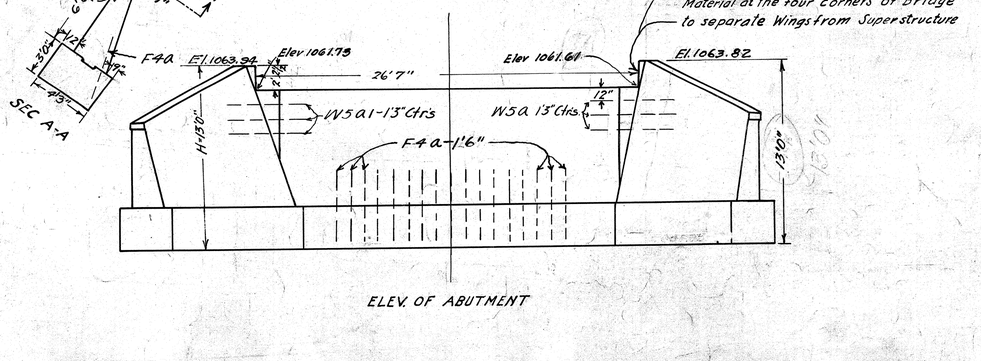
END VIEW



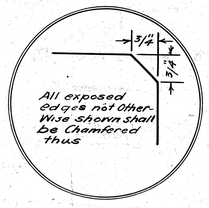


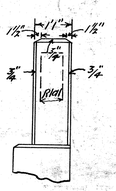


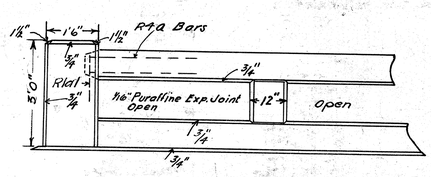
French Drain to be full length of Abutment and Wings.



NOTE
Use RR4 Standard Railing







DETAIL OF RAIL AND END POSTS

STEEL LIST

MARK	SIZE	SHAPE	SPACING	NO	LENGTH	WT
SUPERSTRUCTURE						
S7a	1"Ø	Bent	0'-5"	63	23'	3869
T2a	½"Ø	Str.	2'-0"	111	24'	212
D4a	⅝"Ø	Bent		8	9'0"	75
D5a	¾"Ø	"		8	5'3"	99
R4a	⅝"Ø	Str		8	20'9"	
R1a	⅜"Ø	"		4	20'9"	
R1a1	⅜"Ø	Bent		4	3'6"	
R1b	⅜"Ø	Straight		4	3'0"	
				TOTAL		4255
SUBSTRUCTURE						
F4a	⅝"Ø	Str.	1'-6"	58	5'-0"	302
K4a	⅝"Ø	"	12"	58	2'-0"	121
W5a	¾"Ø	Bent	1'-3"	12	10'6"	191
W5a1	¾"Ø	"	1'-3"	12	12"	216
				TOTAL		830

Railing bars not used in Railing to payment.

ESTIMATED QUANTITIES

SUBSTRUCTURE

Excavation and Backfill	175.0	cu.yds
1:6½ Concrete	68.00	CU. YDS.
1:8 Concrete	44.40	Cu.Yds.
Reinforcing Steel	83.0	Lbs.

SUPERSTRUCTURE

1:5½ Concrete	31.3	CU YDS
Reinforcing Steel	4255	LBS.
¼" Prem. Exp. Jt. Filler	31.0	sq.ft.
4" Conc. Wearing Surface	57.8	SQ YDS.
Railing-RR-4	48.0	Lin.ft.

SKEWED SLAB BRIDGE OVER NORTH BRANCH

STA. 86+55 I.C.H. 377 SEC. J
CARROLL COUNTY

STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
JULY 1927 BUREAU OF BRIDGES

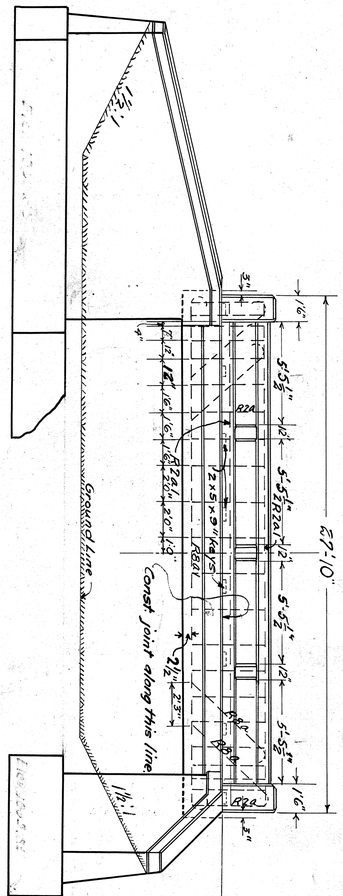
DESIGNED	DRAWN	TRACED	CHECKED Blake	REVIEWED H.H.E. 10/11/27

Revised and Checked 10/27 By Blake.

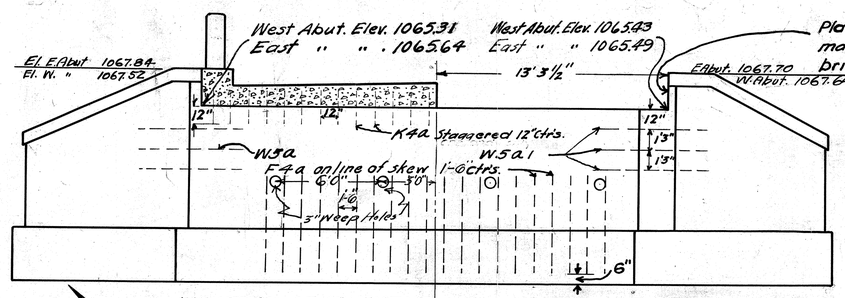
FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

107
113

I.C.H. 377 SEC J
CARROLL COUNTY



SIDE ELEVATION

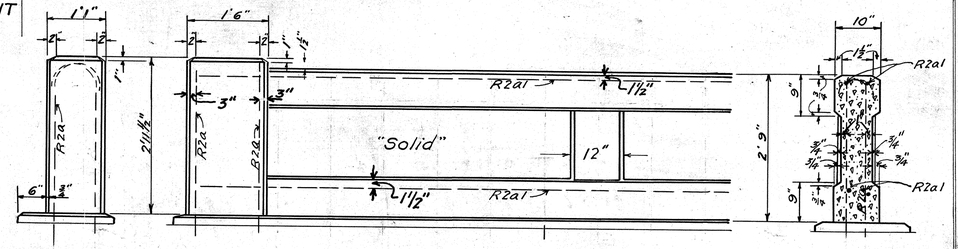


ELEVATION OF ABUTMENT

NOTES:-

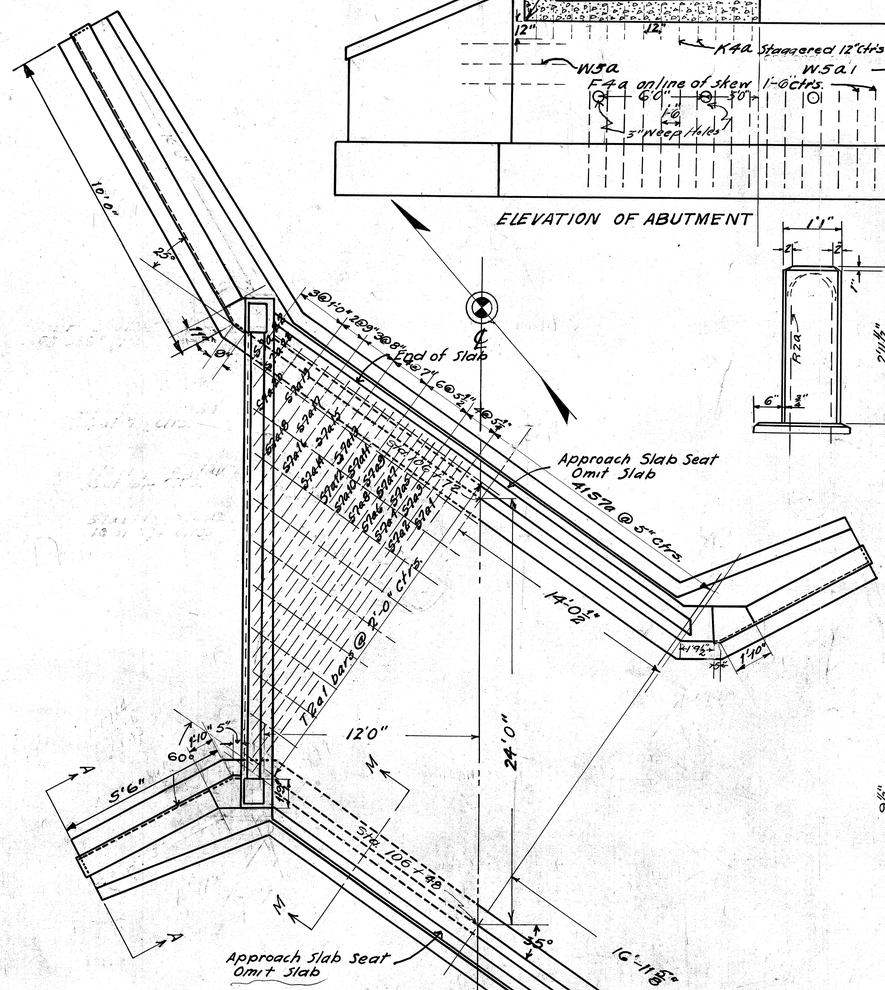
~~S Bars from No. S7a1 S7a23 to be cut in field to fit Skew.~~

Camber :- Permanent camber under full dead load not required but care shall be taken to avoid a sag.

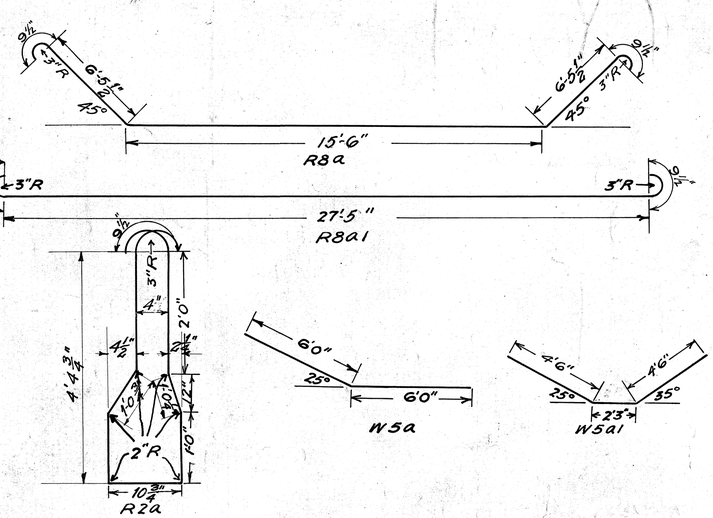


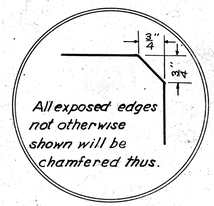
DETAIL OF RAIL TYPE R-R6

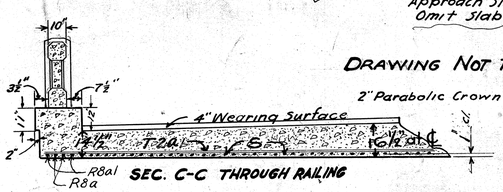
SEC. THRU RAILING



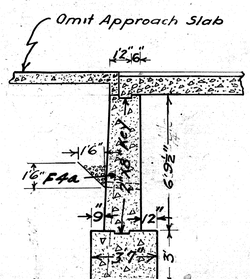
PLAN



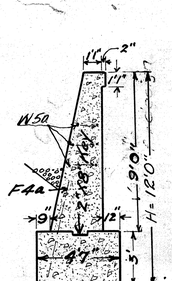




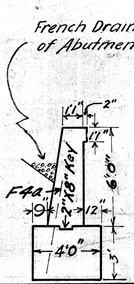
SEC. C-C THROUGH RAILING



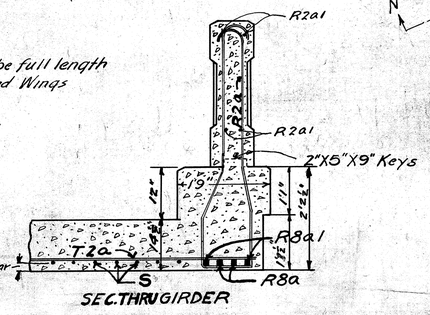
SEC. M-M



SEC. N-N



SEC. A-A



SEC. THRU GIRDER

DRAWING NOT TO SCALE

STEEL LIST

SUPERSTRUCTURE

Mark	Size	Shape	Spacing	No.	Length	Wt.
S7a	1"ø	Str.	5"	41	21'6"	2350
S7a1	1"ø	"	5¼"	2	20'9"	111
S7a2	1"ø	"	"	2	20'3"	108
S7a3	1"ø	"	"	2	19'6"	104
S7a4	1"ø	"	"	2	19'0"	101
S7a5	1"ø	"	5½"	2	18'3"	97
S7a6	1"ø	"	"	2	17'9"	95
S7a7	1"ø	"	"	2	17'0"	91
S7a8	1"ø	"	"	2	16'6"	88
S7a9	1"ø	"	"	2	15'9"	84
S7a10	1"ø	"	"	2	15'3"	81
S7a11	1"ø	"	7"	2	14'6"	77
S7a12	1"ø	"	"	2	13'6"	72
S7a13	1"ø	"	"	2	12'9"	68
S7a14	1"ø	"	"	2	12'0"	64
S7a15	1"ø	"	8"	2	11'0"	59
S7a16	1"ø	"	"	2	10'0"	53
S7a17	1"ø	"	"	2	9'0"	48
S7a18	1"ø	"	9"	2	8'0"	43
S7a19	1"ø	"	"	2	7'0"	37
S7a20	1"ø	"	1'0"	2	5'6"	28
S7a21	1"ø	"	"	2	4'3"	23
S7a22	1"ø	"	"	2	2'6"	13
R8a	1"□	Bent		4	30'0"	408
R8a1	1"□	Str.		4	29'0"	394
R2a	½"ø	Bent		44	11'3"	330
R2a1	½"ø	Str.		8	27'6"	147
T2a1	½"ø	"		11	31'6"	231
					Total	5409

R2a1 Bars Included in Railing for Payment.

SUBSTRUCTURE

F4a	⅝"ø	Str.	1'6"	60	5'0"	313
K4a	⅜"ø	"	12"	62	2'0"	129
W5a1	¾"ø	Bent	1'3"	12	11'3"	203
W5a	¾"ø	"	1'3"	12	12'0"	216
					Total	860

ESTIMATED QUANTITIES

Substructure		
Channel Excavation	95.0	
Excavation and Backfill	125.0	Cu. Yds.
1:6½ Concrete footings	39.6	cu. yds.
1:6½ Concrete walls	45.6	Cu. yds.
Reinforcing Steel	860	lbs.
Superstructure		
1:5½ Concrete	34.4	cu. yds.
Reinforcing Steel	5405	lbs.
¼" Prem. Exp. Jt. Filler	31.0	Sq. ft.
4" Conc. Wearing Surface	68.6	Sq. Yds.
Railing Type RR-6	56	Lin. ft.

SKEWED SLAB BRIDGE OVER GANTZ CREEK.

STA. 106+60 I.C.H. 377 SEC. J
CARROLL COUNTY
STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
JULY 1927 BUREAU OF BRIDGES

Designed	Drawn	Traced	Checked R.D. Blake 10/5/27	Reviewed W.H.E. 10/11

FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

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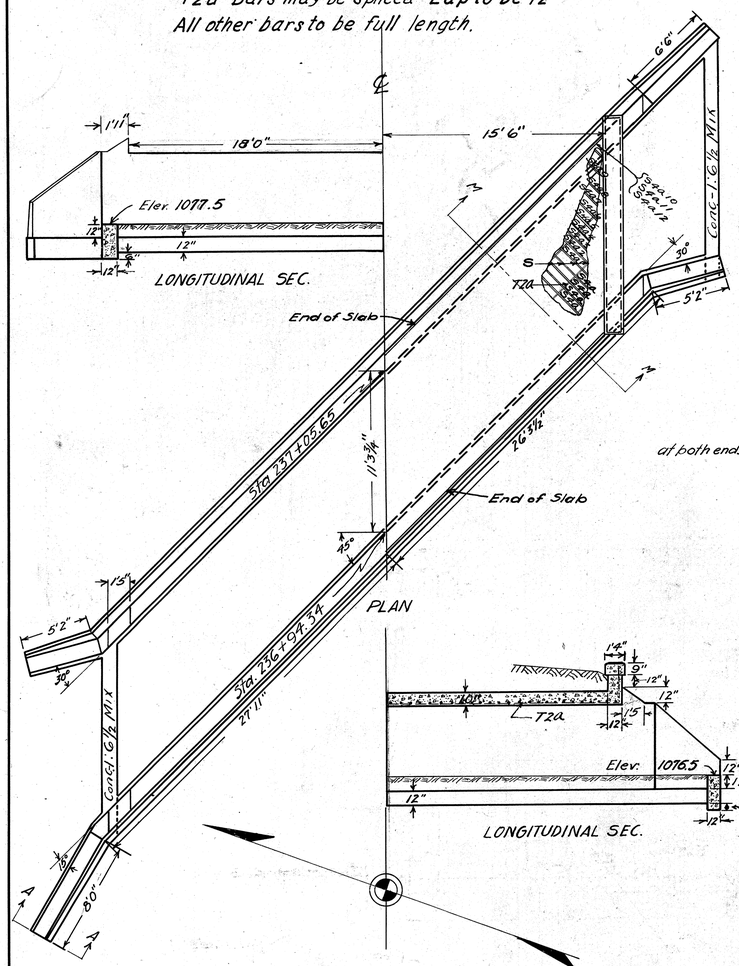
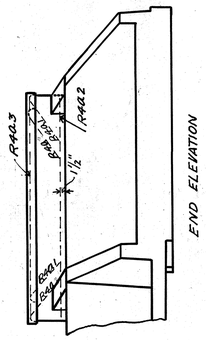
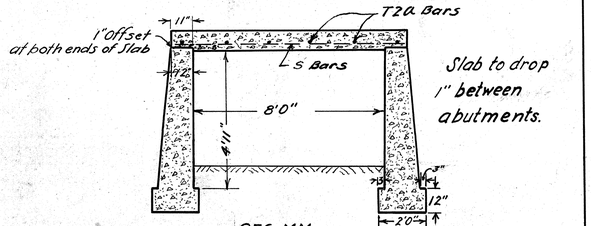
I.C.H. 377 SEC. J
CARROLL COUNTY

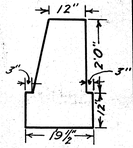
All exposed edges shall be beveled with triangular strips built into the forms
T2a Bars may be spliced Lap to be 12"
All other bars to be full length.

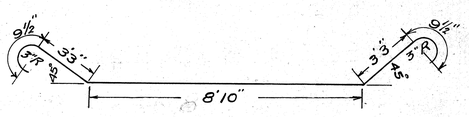


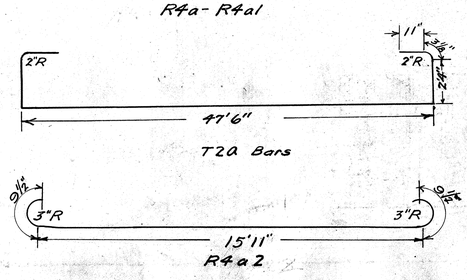


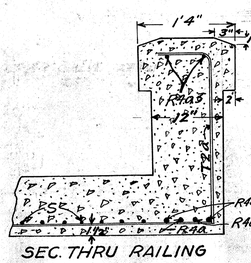


Slab to drop 1" between abutments.









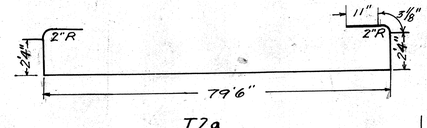
STEEL LIST						
Mark	Size	Shape	Spacing	No	Length	Wt.
S4a	⅝	Str	5½"	89	9'6"	883
S4a1	"	"	6"	2	9'0"	19
S4a2	"	"	6"	2	8'6"	18
S4a3	"	"	6"	2	8'0"	17
S4a4	"	"	6"	2	7'6"	16
S4a5	"	"	6"	2	7'0"	15
S4a6	"	"	7"	2	6'5"	13
S4a7	"	"	7"	2	5'10"	12
S4a8	"	"	7"	2	5'3"	11
S4a9	"	"	7"	2	4'8"	10
S4a10	"	"	7"	2	4'1"	8
S4a11	"	"	8"	2	3'5"	7
S4a12	"	"	8"	2	2'9"	6
T2a	½"ø	Bent	1'10"	6	54'10"	197
R4a	⅝"ø		3"	2	16'6"	33
R4a1	⅝"ø		3"	2	16'0"	33
R4a2	⅝"ø		3"	4	15'11"	66
R4a3	⅝"ø		6"	4	12'10"	62
			Total			1426

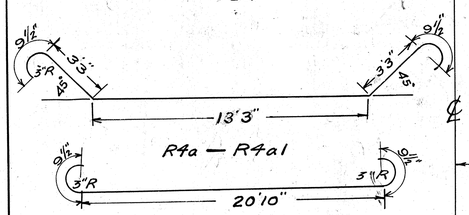
ESTIMATED QUANTITIES

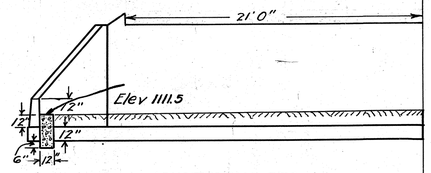
Substructure		
Excavation and Backfill	25.0	Cu. Yds.
1:6½ Concrete	31.0	Cu. Yds.
1:8 Concrete	9.98	Cu. Yds.
Reinforcing Steel	0.0	Lbs.
Superstructure		
1:5½ Conc.	17.5	Cu. Yds.
Rein. Steel	1426	Lbs.

SLAB TOP CULVERT
BRANCH FRIDAY CREEK
STA. 237+00 I.C.H. 377 SEC. J
CARROLL COUNTY
STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
JULY 1927 BUREAU OF BRIDGES

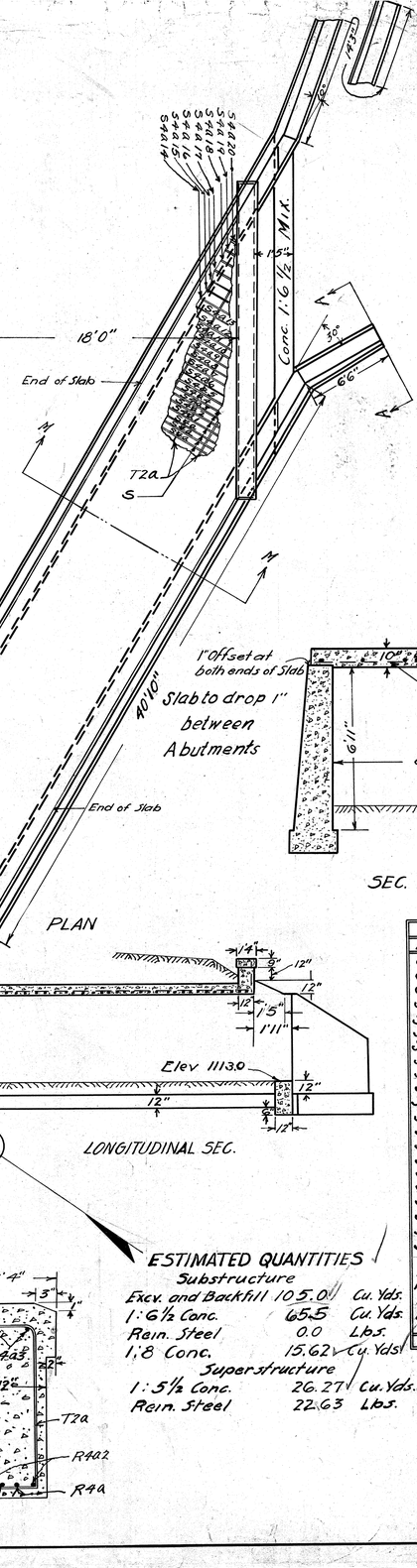
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED

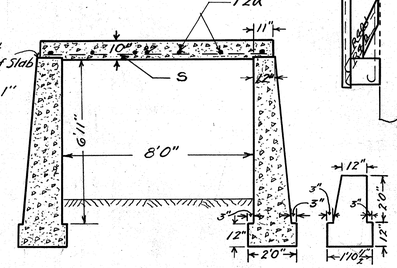




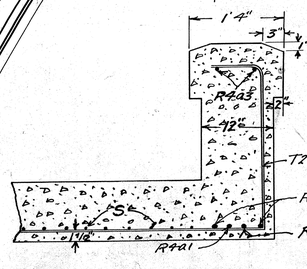


All exposed edges shall be beveled with triangular strips built into forms
T2a Bars may be spliced Lap to be 12" All other bars to be full length.





Slab to drop 1" between Abutments



STEEL LIST						
Mark	Size	Shape	Spacing	No	Length	Wt.
S4a	⅝	Str	5½"	143	9'6"	1417
S4a1	"	"	6"	2	9'2"	19
S4a2	"	"	6"	2	8'10"	18
S4a3	"	"	6"	2	8'6"	18
S4a4	"	"	6"	2	8'2"	17
S4a5	"	"	6"	2	7'10"	16
S4a6	"	"	6"	2	7'6"	16
S4a7	"	"	6¾"	2	7'2"	15
S4a8	"	"	6¾"	2	6'10"	14
S4a9	"	"	6¾"	2	6'6"	13
S4a10	"	"	6¾"	2	6'2"	12
S4a11	"	"	6¾"	2	5'10"	12
S4a12	"	"	7½"	2	5'6"	11
S4a13	"	"	7½"	2	5'2"	11
S4a14	"	"	7½"	2	4'9"	10
S4a15	"	"	7½"	2	4'4"	9
S4a16	"	"	8"	2	3'10"	8
S4a17	"	"	8"	2	3'4"	7
S4a18	"	"	8"	2	2'10"	6
S4a19	"	"	9"	2	2'4"	6
S4a20	"	"	9"	2	1'10"	4
T2a	½"ø	Bent	1'10"	6	86'6"	347
R4a	⅝"ø	"	3"	2	21'4"	44
R4a1	"	"	"	2	21'4"	44
R4a2	"	"	"	4	20'10"	87
R4a3	"	Str	6"	4	19'9"	82
			Total			2263

ESTIMATED QUANTITIES

Substructure		
Excv. and Backfill	105.0	Cu. Yds.
1:6½ Conc.	65.5	Cu. Yds.
Rein. Steel	0.0	Lbs.
1:8 Conc.	15.62	Cu. Yds.
Superstructure		
1:5½ Conc.	26.27	Cu. Yds.
Rein. Steel	22.63	Lbs.

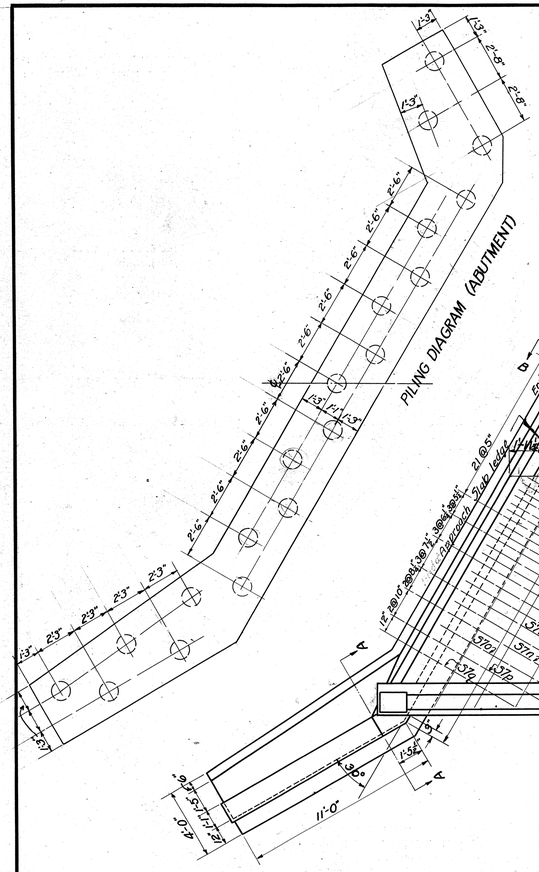
SLAB TOP CULVERT
OVER GANTZ CREEK
STA. 157+50 I.C.H. 377 SEC. J
CARROLL COUNTY
STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
JULY 1927 BUREAU OF BRIDGES

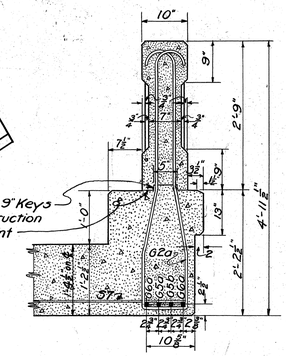
FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1927

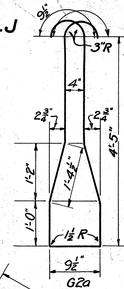
109/113

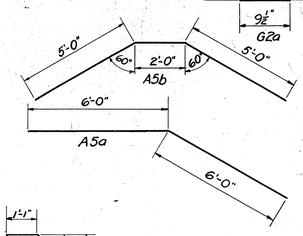
CARROLL CO.
I.C.H. 377 SEC. J

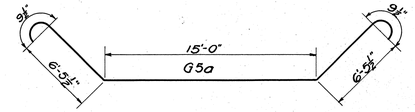
Note: All Excavation below 1064.5 shall be considered wet, all above dry.
EXPANSION NOTE:- Place 2 layers Prem. Exp. Joint material at each corner of bridge to separate superstructures & from abutment.
CHAMFER: All exposed edges have ¾" cham.

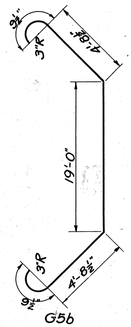


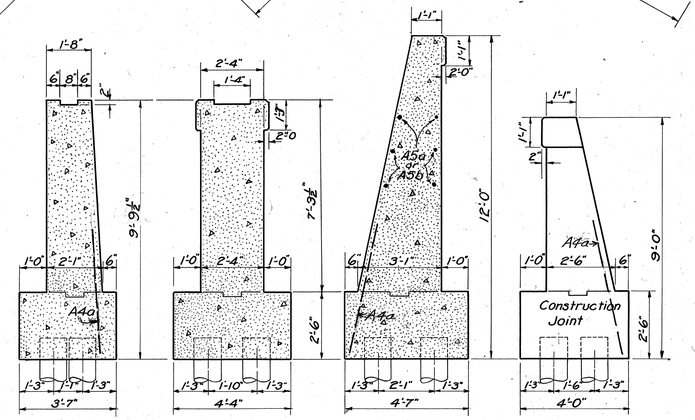


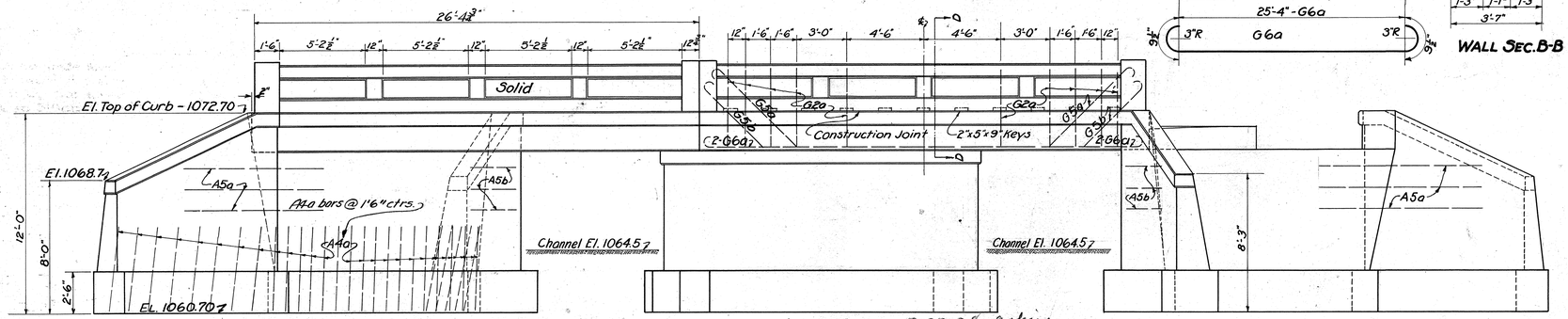












END ELEVATION SHOWING GIRDER DETAILS

Wire sent by V.T. Grimes 5-23-28 asking length and numbers of 57a bars
answered by Blakely

MARK	NO	SIZE	LENGTH	SHAPE	WEIGHT
A4a	60	⅝"ϕ	5'-0"	STR	313
A5a	12	¾"ϕ	12'-0"	Bent	216
A5b	12	¾"ϕ	12'-0"	"	216
G2a	40	½"ϕ	11'-6"	"	306
G5a	4	⅜"ϕ	29'-6"	"	178
G5b	4	¾"ϕ	30'-0"	"	180
G6a	8	⅜"ϕ	27'-0"	"	440
55a	28	¾"ϕ	12'-0"	STR	505

MARK	NO	SIZE	LENGTH	SHAPE	WEIGHT
57a	46	1"ϕ	23'-6"	Bent	5281
57b	4	1"ϕ	21'-6"	"	230
57c	4	1"ϕ	20'-9"	"	222
57d	4	1"ϕ	20'-0"	"	214
57e	4	1"ϕ	19'-0"	"	203
57f	4	1"ϕ	18'-0"	"	192
57g	4	1"ϕ	17'-0"	"	182
57h	4	1"ϕ	16'-0"	"	171

MARK	NO	SIZE	LENGTH	SHAPE	WEIGHT
57j	4	1"ϕ	15'-0"	Bent	160
57k	4	1"ϕ	14'-0"	"	150
57m	4	1"ϕ	12'-9"	"	136
57n	4	1"ϕ	11'-6"	"	123
57o	4	1"ϕ	10'-0"	"	107
57p	4	1"ϕ	8'-6"	"	91
57q	4	1"ϕ	6'-9"	"	72
				TOTAL	10390

ESTIMATED QUANTITIES

SUBSTRUCTURE

Wet Excavation	110 Cu.Yds.
Dry Excavation	80 Cu.Yds.
1:6½ Footing Conc.	49.5 Cu.Yds.
1:6½ Wall Conc.	75.8 Cu.Yds.
¾" Prem. Exp. Joint	30 Sq.Ft.
Timber Piling (Assumed Length 16)	816 Lin.Ft.

SUPERSTRUCTURE

1:5½ Concrete	640 Cu.Yds.
Reinforcing Steel	103901bs.
Wearing Surface	132 Sq.Yds.
Railing (Special Type RR-6)	106 Lin.Ft.

NOTE: Substructure reinforcing steel listed with superstructure quantities.

2-SPAN CONCRETE SLAB BRIDGE
OVER SOUTH BRANCH FRIDAY CREEK
STA. 247+15 I.C.H. 377 SEC. J
CARROLL COUNTY

STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
OCTOBER 1927 BUREAU OF BRIDGES

DES.& DRWN.	TRACED	CHECKED	REVIEWED
W.D.A.	W.D.A.	E.H.Blake 10/11/27	W.H.E. 10/11/27

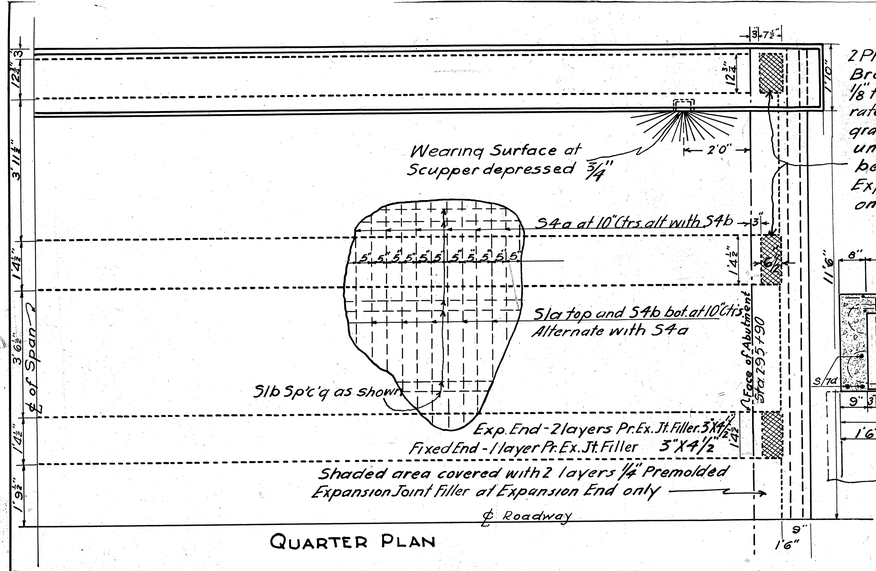
FED AID DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	451-F	1927

110
113

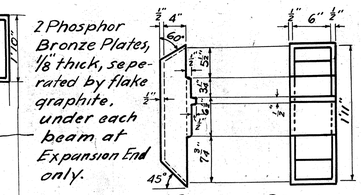
I.C.H. 377 SEC. J
CARROLL COUNTY

SUPERSTRUCTURE NOTE

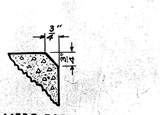
Superstructure shall be Standard Concrete Beam Bridge, 40 Ft. Span, 24 Ft. Roadway, Drawing No. B-40-2430.



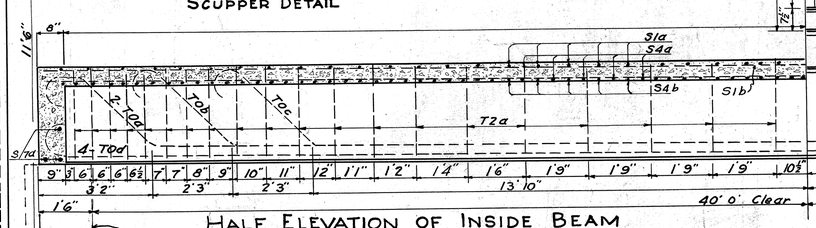
QUARTER PLAN



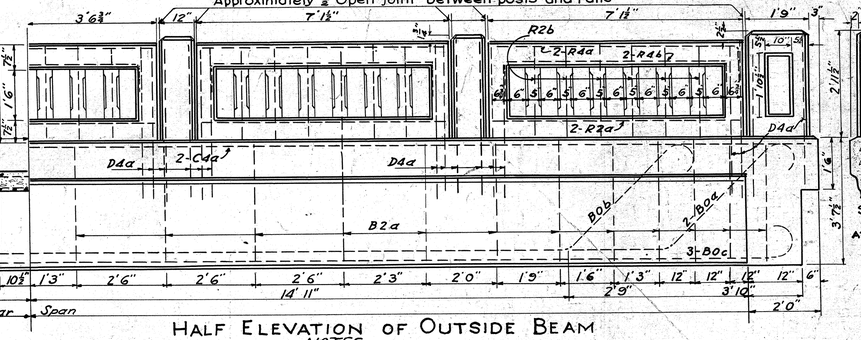
SCUPPER DETAIL



CHAMFER FOR ALL EXPOSED EDGES EXCEPT AS OTHERWISE SHOWN



HALF ELEVATION OF INSIDE BEAM



HALF ELEVATION OF OUTSIDE BEAM

NOTES

Exp End:- Top of the Abut. to be finished smooth and covered with 2 lay 1/4" Prem. Exp. Joint Filler over area indicated in Quarter Plan. Also 2 lay 1/4" between backwall and (entire width of) Superstructure, from brid seat to top of wearing surface.

Fixed End:- 1 layer 1/4" Prem. Exp. Jt. Filler on 3" Space at edge of bearin beams.

Both Ends:- 2 layers 1/4" between Superst. and Wings, Br. seat to top of w

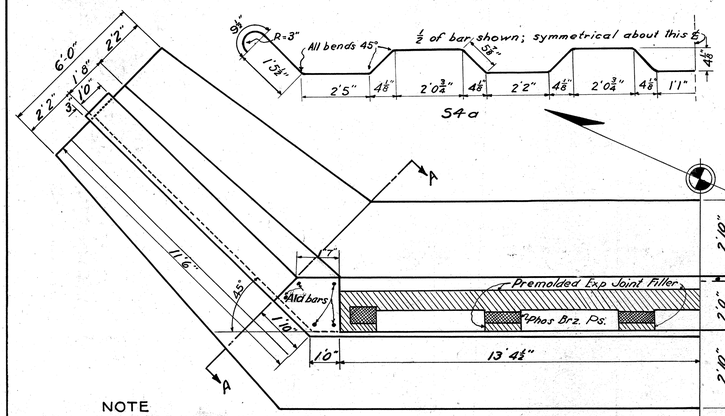
Construction Joint:- If unable to pour floor system continuously make Joint midway between any two beams. Slab to be poured monolithic wit beams.

Camber:- Permanent Camber under full dead load of approx. 1" center following a true parabolic curve.

Wearing Surface:- Wearing Surface shall be full width between curbs and entire length of Slab.

STEEL LIST
SUBSTRUCTURE

MARK	SIZE	SHAPE	No REQD	LENGTH	WEIGHT
A4a	5/8 ϕ	Str.	68	11'-3"	798
A4b	5/8 ϕ	"	78	8'-6"	692
A4c	5/8 ϕ	"	68	6'-3"	443
A2a	1/2 ϕ	Bent	12	33'-0"	265
A2b	1/2 ϕ	"	24	13'0"	208
A1a	3/8 ϕ	Str	8	26'6"	80
A1b	3/8 ϕ	Bent	16	3'0"	18
A1c	3/8 ϕ	Str	84	3'-6"	111
A1d	3/8 ϕ	"	20	5'-3"	40
				TOTAL	2655

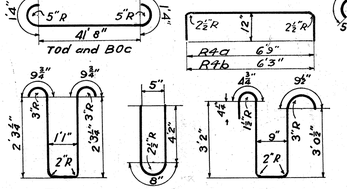


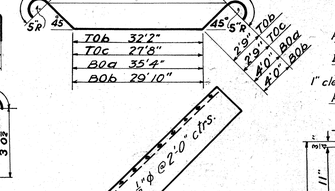
HALF ABUTMENT PLAN

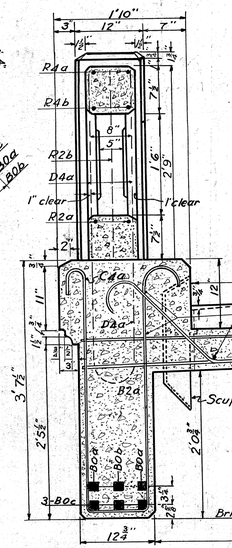
HALF ELEVATION

NOTE
Back wall shall be made level under outside beam and separated from it by two layers 1/4" Prem. Exp. Jt. Filler.

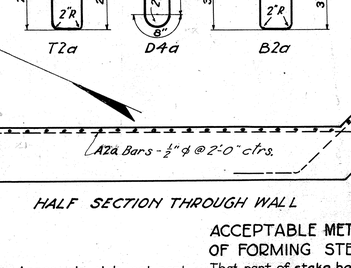
HALF SECTION THROUGH WALL

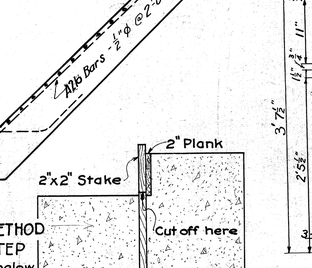




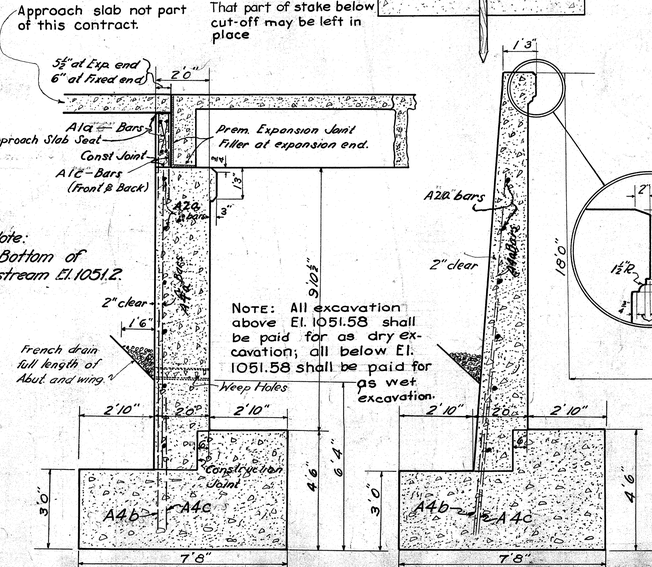


HALF CROSS SECTION



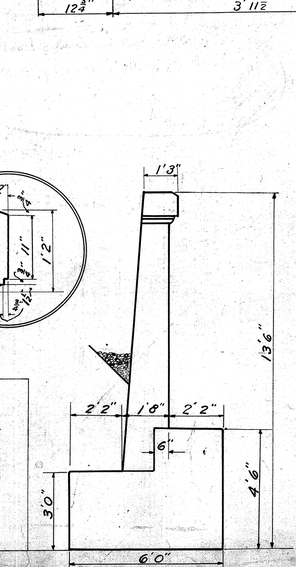


ACCEPTABLE METHOD OF FORMING STEP
That part of stake below cut-off may be left in place



SECTION OF ABUTMENT ON ℄

WING SECTION A-A



END ELEVATION OF WING

STEEL LIST
SUBSTRUCTURE

MARK	SIZE	SHAPE	No REQD	LENGTH	WEIGHT	
T0a	1 1/4" □	Bent	8	45' 10"	1960	
T0b	1 1/4" □	Bent	4	40' 4"	857	
T0c	1 1/4" □	Bent	4	35' 10"	762	
T0d	1 1/4" □	Bent	16	44' 4"	3769	
T2a	1/2" ϕ	Bent	160	7'-3"	775	
B0a	1 1/4" □	Bent	4	46'-0"	978	
B0b	1 1/4" □	Bent	2	40'-6"	430	
B0c	1 1/4" □	Bent	6	44'-4"	1413	
B2a	1/2" ϕ	Bent	48	8'-6"	273	
C4a	5/8" ϕ	Straight	4	42'-9"	178	
S4a	5/8" ϕ	Bent	50	28'-0"	1460	
S4b	5/8 ϕ	Straight	51	25'-9"	1370	
S1a	3/8 ϕ	Straight	51	25'-9"	494	
S1b	3/8 ϕ	Straight	22	42'-9"	354	
S7a	1" ϕ	Straight	6	26'-0"	416	
D4a	5/8 ϕ	Bent	64	9'-0"	601	
R4a	5/8 ϕ	Bent	20	8'-9"		Railing bent and Jobbers Railing for Replacement
R4b	5/8 ϕ	Bent	20	8'-3"		
R2a	1/2" ϕ	Straight	20	6'-9"		
R2b	1/2" ϕ	Straight	60	2'-6"		
				TOTAL	16090	

Note:-
Estimated Quantities for Superstructure were taken from Standard Concrete Beam Bridge Plan 40 Span-24 Roadway

ESTIMATED QUANTITIES

SUPERSTRUCTURE

Concrete 1:5½ mix	57.4	Cu
Reinforcing Steel	16090	Lbs
¼" Prem Exp Jt Filler	262.0	Sq.
Wearing Surface	110.0	Sq.
⅛" Phos Bronze Plates	50.0	Lb.
Cast Iron Scuppers	4	Pc.
Railing	870	Lin.

SUBSTRUCTURE

Wet Excavation	200	Cu
Dry Excavation	226	Cu
Concrete 1:6½ (walls)	79.8	Cu.
Reinforcing Steel	2655	Lb.
Concrete 1:6½ (Footings)	100	Cu

CONCRETE BEAM BRIDGE OVER FRIDAY CREEK

STA. 295+70 I.C.H 377 SEC. J
CARROLL COUNTY
STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WO
DIVISION OF HIGHWAYS
JULY 1927 BUREAU OF BRI

DESIGNED	DRAWN	TRACED	CHECKED	REV
			EHBGV.BC	MA

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	111 / 113
10	OHIO	451-F	1927	

SUMMARY OF QUANTITIES

SECTION J

SUMMARY OF PRIVATE DRIVES

STATION	SIDE OF ROAD	TYPE	SIZE	LENGTH	EXCAV. CU. YDS.	CORRUGATED PIPE 12" LIN. FT.	CORRUGATED PIPE 15" LIN. FT.	CORRUGATED PIPE 18" LIN. FT.	WORK REQUIRED
13+50	Rt.	Corr. Pipe	12"	24'		24			Lay 24'x12" corrugated pipe
22+25	Rt.	" "	18"	24'				24	" " 18" " "
22+25	Lt.	" "	12"	24'		24			" " 12" " "
32+30	Rt.	" "	12"	24'		24			" " " " "
33+90	Rt.	" "	12"	24'		24			" " " " "
38+00	Lt.	" "	12"	24'		24			" " " " "
45+50	Rt.	" "	12"	24'		24			" " " " "
58+75	Rt.	" "	12"	24'		24			" " " " "
60+90	Lt.	" "	12"	24'		24			" " " " "
87+00	Lt.	" "	12"	24'		24			" " " " "
88+50	Rt.	" "	12"	24'		24			" " " " "
96+00	Lt.	" "	12"	24'		24			" " " " "
135+50	Lt.	" "	12"	24'		24			" " " " "
139+50	Rt.	" "	12"	24'		24			" " " " "
147+00	Rt.	" "	12"	24'		24			" " " " "
147+00	Lt.	" "	12"	24'		24			" " " " "
161+50	Rt.	" "	12"	24'		24			" " " " "
199+00	Lt.	" "	12"	24'		24			" " " " "
209+00	Lt.	" "	12"	24'		24			" " " " "
209+00	Rt.	" "	12"	24'		24			" " " " "
216+00	Rt.	" "	12"	24'		24			" " " " "
216+00	Lt.	" "	12"	24'		24			" " " " "
230+00	Rt.	" "	15"	24'			24		" " 15" " "
230+00	Lt.	" "	12"	24'		24			" " 12" " "
242+00	Lt.	" "	12"	24'		24			" " " " "
245+00	Lt.	" "	12"	24'		24			" " " " "
279+25	Rt.	" "	12"	24'		24			" " " " "
290+00	Rt.	" "	12"	24'		24			" " " " "
290+00	Lt.	" "	12"	24'		24			" " " " "
337+00	Lt.	" "	12"	24'		24			" " " " "
337+00	Rt.	" "	12"	24'		24			" " " " "
343+00	Rt. & Lt.	" "	12"	24'		48			" " " " "
359+00	Rt.	" "	12"	24'		24			" " " " "
33+50	Lt.	" "	12"	24'		24			" " " " "
TOTALS						792	24	24	

SUMMARY OF EXCAVATION AND EMBANKMENT

FROM STATION	TO STATION	CUBIC YARDS EXCAV.	EMB.	EMB+15%	EMB+20%	WASTE	BORROW
0+00	11+75	3911	3259		3911		
11+75	23+92	8452	7043		8452		
23+92	30+51	1513	1260		1512	1	
30+51	40+87	2940	2450		2940		
40+87	47+21	4339	3616		4339		
47+21	65+00	6844	5703		6844		
65+00	79+47	4020	3350		4020		
79+47	84+55	2910	2425		2910		
84+55	89+27	1474	1228		1474		
89+27	100+50	5553	4628		5554		1
100+50	108+30	1987	1656		1987		
108+30	111+85	874	728		874		
111+85	120+01	2603	2169		2603		
120+01	128+20	3700	3083		3700		
128+20	135+30	1688	1407		1688		
135+30	140+47	2802	2335		2802		
140+47	146+66	1817	1512		1814	3	
146+66	148+80	587	489		587		
148+80	151+47	950	792		950		
151+47	157+98	1797	1497		1796	1	
157+98	169+83	3896	3241		3896		
169+83	176+08	1487	1239		1487		
176+08	187+01	2849	2374		2849		
187+01	196+18	2404	2003		2404		
196+18	205+91	2640	2200		2640		
205+91	213+68	3709	3091		3709		
213+68	221+95	2129	1774		2129		
221+95	239+45	4256	3547		4256		
239+45	243+50	820	957		1148		209
243+50	257+98	4068	3390		4068		
257+98	266+00	2611	2176		2611		
266+00	285+40	2541	2118		2542		1
285+40	306+13	16920	16229	18663			17431
306+13	310+00	5315	4622	5315			
310+00	326+28	4896	4080		4896		
326+28	335+90	2762	2302		2762		
335+90	339+85	1310	1091		1309	1	
339+85	346+43	4997	4345	4997			
346+43	359+78	5392	4540		5448		56
TOTALS		135763	115955	28975	108911	6	2010

SUMMARY OF TYPE D GUARD RAIL

FROM STATION	TO STATION	SIDE OF ROAD	LENGTH
4+60	5+32	Rt.	72
5+08	5+48	Lt.	40
5+53	6+01	Rt.	48
5+71	6+51	Lt.	80
13+38	15+94	Lt.	256
13+73	17+01	Rt.	328
41+50	45+02	Lt.	352
43+30	44+90	Rt.	160
52+94	57+90	Lt.	496
77+50	81+42	Lt.	392
86+07	86+39	Lt.	32
86+59	86+91	Lt.	32
86+19	86+51	Rt.	32
86+71	87+03	Rt.	32
91+48	100+52	Rt.	904
106+07	106+39	Rt.	32
106+63	106+95	Rt.	32
106+25	106+57	Lt.	32
106+81	107+13	Lt.	32
121+73	124+77	Lt.	304
136+76	141+00	Lt.	424
148+29	149+01	Lt.	72
157+00	161+00	Rt.	400
177+64	183+00	Rt.	536
211+76	214+56	Rt. & Lt.	560
246+56	246+88	Rt.	32
247+28	247+60	Rt.	32
246+70	247+02	Lt.	32
247+42	247+74	Lt.	32
263+60	265+76	Lt.	216
295+18	295+50	Rt. & Lt.	64
295+90	296+22	Rt. & Lt.	64
299+00	302+76	Rt. & Lt.	752
307+69	310+49	Rt. & Lt.	560
328+00	329+04	Rt.	104
328+24	329+20	Lt.	96
339+20	341+52	Rt.	232
339+50	341+26	Lt.	176
347+68	348+00	Lt.	32
347+60	349+84	Rt.	224
350+75	352+03	Rt.	128
353+50	356+14	Rt.	264
TOTAL			8720

SUMMARY OF STORM SEWER

FROM STATION	TO STATION	SIDE OF ROAD	TYPE	SIZE	LENGTH	WORK REQUIRED
32+40	33+00	Rt.	V.S.P.	12"	60'	Lay 12"x60' V.S.P. storm sewer
59+50	60+50	Lt.	V.S.P.	12"	100'	" " 100' " " "
87+50	88+50	Rt.	V.S.P.	12"	100'	" " 100' " " "
243+00	244+50	Lt.	V.S.P.	12"	150'	" " 150' " " "
TOTAL					410'	

SUMMARY OF DRAIN TILE

127+50			Clay	6"	100'	Lay 6"x100' clay drain tile
198+75			Clay	6"	100'	" " " " " "
TOTAL					200'	

SUMMARY OF CREEK CHANGES

STATION	DIMENSIONS	CU. F.T.	CU. YDS.	
108+00	100'x3'x5'	1500	56	
111+50	50'x2½'x5'	625	23	
113+00	90'x2'x5'	900	33	
117+00	240'x3'x5'	3600	133	
124+25	50'x3'x5'	750	28	
139+00	150'x3'x5'	2250	83	
237+00	100'x4'x8'	3200	119	← Place in roadway between Sta. 239+45 and 243+50
TOTAL			475	

SUMMARY OF HAND LAID STONE RIP RAP

Sta 108+00 to Sta 239+00	150 cu.yds.

Hand laid stone rip rap to be placed as directed by the Engineer.

FED. AID DIST. NO. 10

I.C.H. 377 Carroll Co.

112 / 113

SUMMARY OF QUANTITIES

SECTION-J

NO	STATION	TYPE	SIZE	LENGTH	EXCAVA. CU. YDS. WET	EXCAVA. CU. YDS. DRY	CONCRETE 1:5½ CU. YDS	CONCRETE 1:6½ CU. YDS	CONCRETE 1:8 CU. YDS	REINF. STEEL LBS.	VITRIFIED SEWER PIPE 12" LIN. FT.	VITRIFIED SEWER PIPE 15" LIN. FT.	VITRIFIED SEWER PIPE 18" LIN. FT.	VITRIFIED SEWER PIPE 24" LIN. FT.	CHANNEL EXCAV. CU. YDS.	EXP. JT. FILLER ¼"	EXP. JT. FILLER ½"	4" CONC. WEARING SUR. SQ. YDS.	1/8" PHOS. BR. PLATES LBS.	CAST IRON SCUPPERS	RAILING TYPE-R-R-I LIN. FT.	RAILING TYPE-R-R-A LIN. FT.	RAILING TYPE-R-R-G LIN. FT.	WORK REQUIRED
										STRUCTURES 20 FEET AND UNDER														
2	14+50	Conc. Box	4'X4'	89'		38	49.1			2535									✓					Build new Std. 4'X4'X89' Conc. Box Culvert.
3	43+88	V.S.P. enc.	12"	67'		26	2.0		6.7	65	64								✓					Build new Std. Enc. 12"X64' V.S.P. Culvert – Remove old pipe
4	57+12	Conc. Box	4'X4'	48'		31	29.7			1395									✓					Build new Std. 4'X4'X48' Conc. Box Culvert - Remove old 24"X17' C.I. Pipe
5	66+50	V.S.P. enc.	12"	36'		11	2.0		3.7	65	36								✓					Build new Std. 12"X36' enc. V.S.P. Culvert – Remove old Box.
6	77+50	V.S.P. Hillside	24"	48'		18	3.2		9.5	50				48					✓					Build new Std. 24"X48' enc. V.S.P. Hillside Culvert.
7	81+50	V.S.P. Hillside	15"	46'		16	2.8		5.7	40		46'							✓					Build new Std. 15"X46' enc. V.S.P. Hillside Culvert.
8	86+00	V.S.P. Side Rd.	12"	26'		8	2.6		2.6	60	26								✓					Build new Std. 12"X26' enc. V.S.P. Side Rd. Culvert – Remove old Corr. Pipe.
9	86+55	Slab Bridge	24' Rdw.	20' Span		175	31.3	68.00	44.4	5085						31		57.8	✓			48		Build new Std. 24' Rdw. 20' Span Slab Br. Skew 25° Rt. Forward - Remove old Steel Br.
10	98+00	V.S.P. enc.	18"	44'		10	2.7		6.5	80			44						✓					Build new Std. 18"X44' enc. V.S.P. Culvert.
12	112+50	V.S.P. enc.	18"	38'		6	2.7		5.5	80			38						✓					Build new Std. 18"X38' enc. V.S.P. Culvert.
13	117+50	V.S.P. enc.	18"	40'		10	2.7		5.85	80			40						✓					Build new Std. 18"X40' enc. V.S.P. Culvert.
14	118+00	V.S.P. enc.	12"	40'		14	2.0		4.1	65	40								✓					Build new Std. 12"X40' enc. V.S.P. Culvert.
15	124+50	V.S.P. enc.	12"	46'		8	2.0		4.75	65	46								✓					Build new Std. 12"X46' enc. V.S.P. Culvert.
16	125+80	Conc. Box	3'X2'	34'		26	12.7			728									✓					Build new Std. 3'X2'X34' Conc. Box Culvert.
17	131+00	V.S.P. enc.	15"	34'		11	2.3		4.16	70		34							✓					Build new Std. 15"X34' enc. V.S.P. Culvert.
18	134+05	V.S.P. enc.	18"	34'		25	2.7		4.9	80			34						✓					Build new Std. 18"X34' enc. V.S.P. Culvert – Remove old Box Culvert.
19	139+00	V.S.P. enc.	18"	38'		5	2.7		5.54	80			38						✓					Build new Std. 18"X38' enc. V.S.P. Culvert.
20	141+50	V.S.P. enc.	15"	36'		5	2.3		4.4	70		36							✓					Build new Std. 15"X36' enc. V.S.P. Culvert.
21	148+75	Conc. Box	3'X3'	50'		10	20.5			1103									✓					Build new Std. 3'X3'X50' Conc. Box Culvert.
22	155+92	V.S.P. enc.	24"	38'		16	3.5		7.4	105				38					✓					Build new Std. 24"X38' enc. V.S.P. Culvert.
23	157+50	Slab Top Culv.	8'X6'	85'		105	26.27	65.5	15.62	2265									✓					Build new Std. 8'X6'X85' Slab Top Culvert Skew 60° Rt. Forward.
24	161+00	V.S.P. Hillside	18"	46'		32	3.0		6.8	45			46						✓					Build new Std. 18"X46' V.S.P. Hillside Culvert.
25	166+50	V.S.P. enc.	12"	34'		12	2.0		3.46	65	34								✓					Build new Std. 12"X34' V.S.P. Culvert.
26	172+40	Conc. Box	3'X3'	36'		8	16.27			806									✓					Build new 3'X3'X36' Conc. Box Culvert.
27	173+00	V.S.P. Side Rd.	12"	24'		5	2.6		2.4	65	24								✓					Build new Std. 12"X24' enc. V.S.P. Side Road Culvert.
28	177+65	V.S.P. enc.	24"	46'		20	3.5		9.1	105				46					✓					Build new Std. 24"X46' enc. V.S.P. Culvert.
29	184+40	V.S.P. enc.	15"	34'		11	2.3		4.2	70		34							✓					Build new Std. 15"X34' enc. V.S.P. Culvert.
30	189+70	V.S.P. enc.	18"	34'		9	2.7		4.9	80			34						✓					Build new Std. 18"X34' enc. V.S.P. Culvert.
31	194+35	V.S.P. enc.	18"	34'		5	2.7		4.9	80			34						✓					Build new Std. 18"X34' enc. V.S.P. Culvert.
32	200+50	V.S.P. enc.	18"	42'		6	2.7		6.2	80			42						✓					Build new Std. 18"X42' enc. V.S.P. Culvert.
33	206+30	V.S.P. Side Rd.	12"	24'		5	2.6		2.4	60	24								✓					Build new Std. 12"X24' enc. V.S.P. Side Road Culvert.
34	206+30	V.S.P. Side Rd.	12"	24'		5	2.6		2.4	60	24								✓					Build new Std. 12"X24' enc. V.S.P. Side Road Culvert.
35	213+70	Conc. Box	6'X4'	53'		21	42.15			2333									✓					Build new Std. 6'X4'X53' Conc. Box Culvert - Skew 35° Rt. Forward.
36	219+78	V.S.P. Hillside	15"	40'		6	2.8		4.9	40		40							✓					Build new Std. 15"X40' enc. V.S.P. Hillside Culvert.
37	229+00	V.S.P. Hillside	18"	40'		15	3.0		5.85	45			40						✓					Build new Std. 18"X40' enc. V.S.P. Hillside Culvert.
38	237+00	Slab Top	8'X5'	54'		25	17.5	31.0	9.98	1436									✓					Build new Std. 8'X5'X54' Slab Top Culvert Skew 45° Rt. Forward.
40	253+50	V.S.P. enc.	18"	34'		5	2.7		4.9	80			34						✓					Build new Std. 18"X34' enc. V.S.P. Culvert.
41	260+77	V.S.P. enc.	15"	38'		5	2.3		4.7	70		38							✓					Build new Std. 15"X38' enc. V.S.P. Culvert.
42	267+50	V.S.P. enc.	15"	34'		18	2.3		4.2	70		34							✓					Build new Std. 15"X34' enc. V.S.P. Culvert.
43	274+25	V.S.P. Side Rd.	12"	30'		5	2.6		3.0	60	30								✓					Build new Std. 12"X30' enc. V.S.P. Side Rad Culvert.
44	277+50	Conc. Box	3'X2'	48'		24	17.1			998									✓					Build new Std. 3'X2'X48' Conc. Box Culvert - Skew 45° Left Forward.
45	279+25	V.S.P. enc.	15"	48'		16	2.3		6.0	70		48							✓					Build new Std. 15"X48' enc. V.S.P. Culvert - Skew 40° Left Forward.
46	286+00	V.S.P. enc.	12"	34'		5	2.0		3.45	65	34								✓					Build new Std. 12"X34' enc. V.S.P. Culvert.
47	292+40	V.S.P. enc.	24"	42'		12	3.5		8.2	105				42					✓					Build new Std. 24"X42' enc. V.S.P. Culvert - Skew 30° Left Forward.
49	309+10	Conc. Box	6'X4'	62'		23	48.0			2715									✓					Build new Std. 6'X4'X62' Conc. Box Culvert.
50	312+20	Conc. Box	3'X3'	40'		20	17.5			891									✓					Build new Std. 3'X3'X40' Conc. Box Culvert.
51	320+00	V.S.P. enc.	12"	46'		5	2.0		4.75	65	46								✓					Build new Std. 12"X46' enc. V.S.P. Culvert.
52	328+75	Conc. Box	3'X3'	45'		10	19.0			996									✓					Build new Std. 3'X3'X45' Conc. Box Culvert.
53	330+00	V.S.P. Side Rd.	12"	26'		5	2.6		2.6	60	26								✓					Build new Std. 12"X26' enc. V.S.P. Culvert. (Overload)
54	330+00	V.S.P. Side Rd.	18"	26'		5	3.3		3.7	70			26						✓					Build new Std. 18"X26' enc. V.S.P. Side Road Culvert.
55	340+00	Conc. Box	4'X3'	74'		37	32.2			1903									✓					Build new Std. 4'X3'X74' Conc. Box Culvert.
56	347+80	V.S.P. enc.	24"	54'		8	3.5		10.7	105				54					✓					Build new Std. 24"X54' enc. V.S.P. Culvert.
57	352+75	V.S.P. Hillside	18"	48'		14	3.0		7.1	45			48						✓					Build new Std. 18"X48' enc. V.S.P. Hillside Culvert.
	TOTAL					976	482.09	169.5	272.11	27892	454	310	498	228		31		57.8	✓			48		
								1-6½ Walls 1-6½ footings		STRUCTURES OVER 20 FEET													Piling Lin. Ft.		
1	5+50	Slab Bridge	24' Rdw.	24' Span		170	34.4	150.8	68.0	6370					220	31		68.6						56.0	Build 24' Rdw. 24' Span Conc. Slab Br. Skew 35° Left Forward
11	106+60	Slab Bridge	24' Rdw.	24' Span		125	34.4	45.6	39.6	6265					95	31		68.6						56.0	Build 24' Rdw. 24' Span Conc. Slab Br. Skew 35° Left Forward
39	247+15	2 Span 31' Br.	24' Rdw.	2-23'9" Spans	110	80	64.0	75.8	49.5	10390						30		137.0					816.0	106.0	Build 24' Rdw. Twin Span (23.09 ft) Slab Bridge. Skew 30°
48	295+70	Beam Bridge	24' Rdw.	40' Span	200	226	57.4	79.8	100.0	18745						262		110.0	50	4	87				Build 24' Rdw. 40' Span Conc. Beam Br.
	TOTAL				310	601	190.2	351.2	257.1	41770					315	354		319.2	50	4	87.0	816.0	218.0	

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16090
2655
18745

FED. AID DIST. NO.	STATE	SHEET NO.
10	OHIO	2

I.C.H. 377 — 113
CARROLL Co. — 113

SUMMARY OF QUANTITIES.

SECTION – I-1

NO	STATION	TYPE	SIZE	LENGTH	EXCAV. CU. YDS. REGU.	SIDE OF ROAD	CONCRETE 1:5½ CU. YDS.	CONCRETE 1:8 CU. YDS.	REINF. STEEL LBS.	VITRIFIED SEWER PIPE 12" LIN. FT.	VITRIFIED SEWER PIPE 15" LIN. FT.	VITRIFIED SEWER PIPE 18" LIN. FT.	VITRIFIED SEWER PIPE 24" LIN. FT.	CHANNEL EXCAV. CU. YDS.	CORRUGATED PIPE 12" LIN. FT.	CORRUGATED PIPE 15" LIN. FT.	CORRUGATED PIPE 18" LIN. FT.	CLAY TILE LIN. FT.	WORK REQUIRED
									STRUCTURES 20 FEET AND UNDER										
58	362+75	V.S.P. enc.	12"	46'	5		2.0	4.75	65	46									Build Std. 12"X46' enc. V.S.P. Culvert
59	367+75	V.S.P. Hillside	18"	52'	20		3.0	7.7	45			52							Build Std. 18"X52' enc. V.S.P. Hillside Culvert
60	372+90	Conc. Box	4'X3'	72'	20		31.5		1855										Build Std. 4'X3'X72' Concrete box Culvert Skew 60° Left forward
61	379+90	V.S.P. enc.	12"	48'	5		2.0	5.0	65	48									Build Std. 12"X48' enc. V.S.P. Culvert
62	385+30	Conc. Box	3'X2'	34'	7		12.65		728										Build Std. 3'X2'X34' Concrete box Culvert
63	389+40	Conc. Box	3'X2"	34'	24		12.65		728										Build Std. 3'X2'X34' Concrete box Culvert
64	397+50	V.S.P. enc.	12"	40'	10		2.0	4.1	65	40									Build Std. 12"X40' enc. V.S.P. Culvert
65	401+60	Conc. Box	4'X4'	40'	25		25.9		1172										Build Std. 4'X4'X40' Concrete box Culvert
66	408+00	V.S.P. Hillside	18"	48'	20		3.0	7.1	45			48							Build Std. 18"X48' enc. V.S.P. Hillside Culvert
67	414+00	V.S.P. Hillside	18"	44'	31		3.0	6.5	45			44							Build Std. 18"X44' enc. V.S.P. Hillside Culvert
	TOTAL				167		97.70	35.15	4811	134		144							
									PRIVATE DRIVES										
	363+00	Corr. Pipe	12"	24'		Left									24				Place 24' of 12" Corrugated Metal Pipe
	366+00	Corr. Pipe	12"	24'		"									24				" " " " " " "
	386+00	Corr. Pipe	12"	24'		Rt.									24				" " " " " " "
	393+00	Corr. Pipe	12"	24'		"									24				" " " " " " "
	397+00	Corr. Pipe	12"	24'		"									24				" " " " " " "
	402+00	Corr. Pipe	12"	24'		"									24				" " " " " " "
	404+75	Corr. Pipe	12"	24'		Left									24				" " " " " " "
	416+00	Corr. Pipe	12"	24'		"									24				" " " " " " "
	416+00	Corr. Pipe	12"	24'		Rt									24				" " " " " " "
	420+00	Corr. Pipe	12"	24'		"									24				" " " " " " "
	TOTAL														240				
									STORM SEWER										
FROM 404+10 TO 404+60		V.S.P.	12"	50		LEFT				50									Lay 50' of 12" Vitrified Sewer Pipe
	TOTAL									50									
									DRAIN TILE										
	392+00	Clay Tile	6"	100														100	Lay 100' of 6" Clay Drain Tile
	TOTAL																	100	
									CREEK CHANNEL CHANGES										
	397+50		3'X5'	90										50					
	TOTAL													50					

TYPE – D – GUARD RAIL

FROM STATION	TO STATION	SIDE OF ROAD	LIN. FEET
361+99	362+87	Left	88
363+11	363+51	"	40
366+73	368+01	Rt.	128
370+26	372+50	"	224
378+98	381+30	Left	232
402+00	404+64	"	264
402+78	411+02	Rt.	824
TOTAL			1800

HAND LAID STONE RIP RAP

Sta 397+50	30 Cu. yds.

SUMMARY OF EXCAVATION AND EMBANKMENT

FROM STATION	TO STATION	EXCAV.	EMB.	+20%	+15%	WASTE	BORROW
359+79	364+17	1541	1284	1541			
364+17	368+48	1151	959	1151			
368+48	376+97	3292	2743	3292			
376+97	388+93	1612	1344	1613			1
388+93	395+50	641	839	1007			366
395+50	421+08	13708	11920		13708		
421+08	434+00	1039	347	416		623	
	Total	22984	19436	9020	13708	623	367

1039 347 416 623
22888 19245 8797 756
96 191 229 756
22984 19436 9020 623