FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

1/20

I.C.H. 238 SEC. D
UNION COUNTY

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

DELAWARE - MARYSVILLE ROAD
I.C.H. No. 238 SEC. D. PET. No. 5203
UNION COUNTY
DOVER TOWNSHIP 1926

File F-2

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Typical Cross Section p.2
Plans and Profile p.3-7
Cross Sections p.8-16

The Standard Specifications 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 the plan and estimates

Approved Date — Alvi Graham, Resident Engineer

Approved Date 4-28-26. — G. C. Snyder, Division Engineer

Approved Date 4/29/26. — Harry J. Kirk, State Highway Engineer

Approved Date 4/29/26 — G. F. Schlesinger, Director of Highways and Public Works

Recomended for Approval Date — District Engineer, Bureau of Public Roads

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

Approved Date — Chief of Bureau.

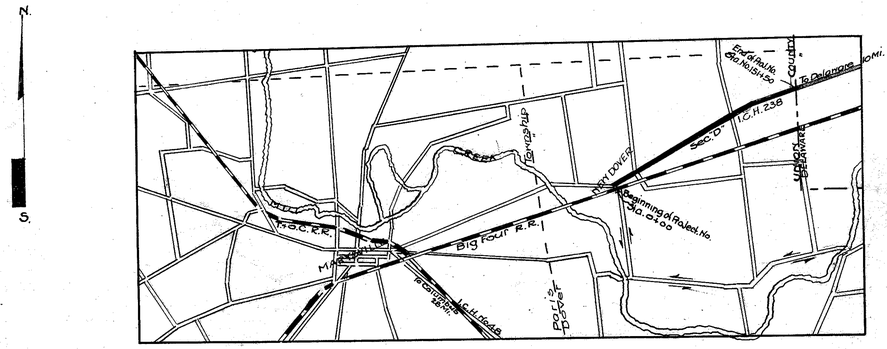
CONVENTIONAL SIGNS

State line
County line
Township line
Section line
Property line not fenced
Center line
City or village line
Fence
Telephone or Telegraph
Steam railroad
Electric line

We, the Commissioners of Union Connty hereby approve these plans and certify that the right-of-way 60 feet wide, is available for the construction, maintenance and repair of the above highway

W M Staley
T B Cashell
G W Crandell

Date 4/30/26 County Commissioners



LOCATION PLAN

SCALE OF MILES
0 1 2 3

PORTION TO BE IMPROVED
DETOURS SHOWN THUS

SCALES

Plan	1" = 100'
Profile (Vertical)	1" = 10'
Profile (Horizontal)	1" = 100'
Cross Sections	1" = 5'

CONSTRUCTION BUREAU
MAY 17 1956
GROUND PHOTOLAB

177
~~75~~ UNION - 238 - D
1926

FED. RD. DIST. N	STATE	FED. AID PROJECT	FISCAL YEAR
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2
20

I. C. H. 238 SEC. D
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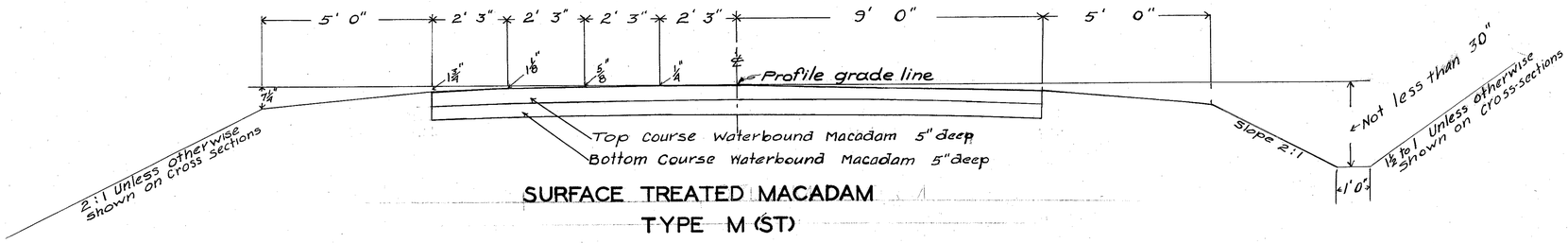

SURFACE TREATED MACADAM
TYPE M (ST)

TYPICAL CROSS SECTION

Surface treatment in two applications
First application using ¼ gal. C.T. Sec 5.14
per sq.yd and second application using
⅓ gal. H.O. Sec. 5.3 per sq.yd.

Note All material removed but not used in this project to be stored along side of road for use of the County Comm's

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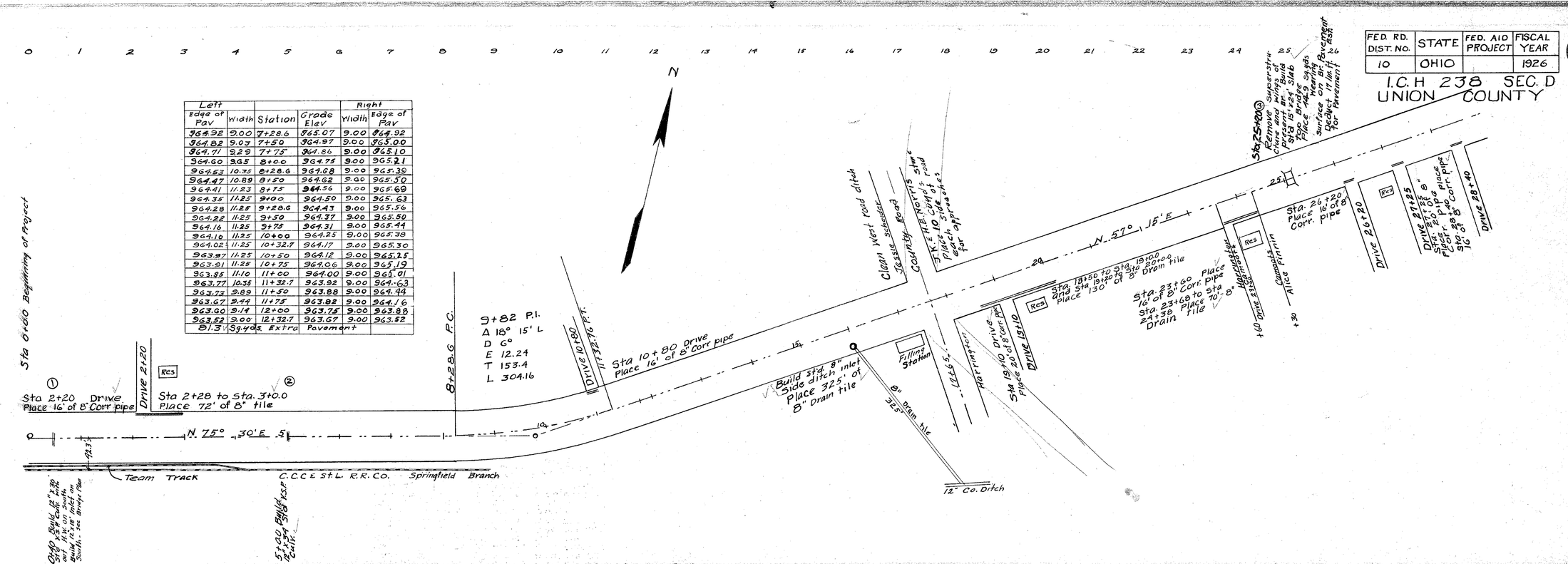
Left Edge of Pav	Width	Station	Grade Elev	Right Width	Right Edge of Pav
964.92	9.00	7+28.6	965.07	9.00	964.92
964.82	9.03	7+50	964.97	9.00	965.00
964.71	9.29	7+75	964.86	9.00	965.10
964.60	9.65	8+00	964.75	9.00	965.21
964.53	10.35	8+28.6	964.68	9.00	965.39
964.47	10.89	8+50	964.62	9.00	965.50
964.41	11.23	8+75	964.56	9.00	965.69
964.35	11.25	9+00	964.50	9.00	965.63
964.28	11.28	9+28.6	964.43	9.00	965.56
964.22	11.25	9+50	964.37	9.00	965.50
964.16	11.25	9+75	964.31	9.00	965.44
964.10	11.25	10+00	964.25	9.00	965.38
964.02	11.25	10+32.7	964.17	9.00	965.30
963.97	11.25	10+50	964.12	9.00	965.25
963.91	11.25	10+75	964.06	9.00	965.19
963.85	11.10	11+00	964.00	9.00	965.01
963.77	10.35	11+32.7	963.92	9.00	964.63
963.73	9.89	11+50	963.88	9.00	964.94
963.67	9.44	11+75	963.82	9.00	964.16
963.60	9.14	12+00	963.75	9.00	963.88
963.52	9.00	12+32.7	963.67	9.00	963.52
51.3	Sq.yds.	Extra	Pavement		



Grade Elevations Crown of Finished Road

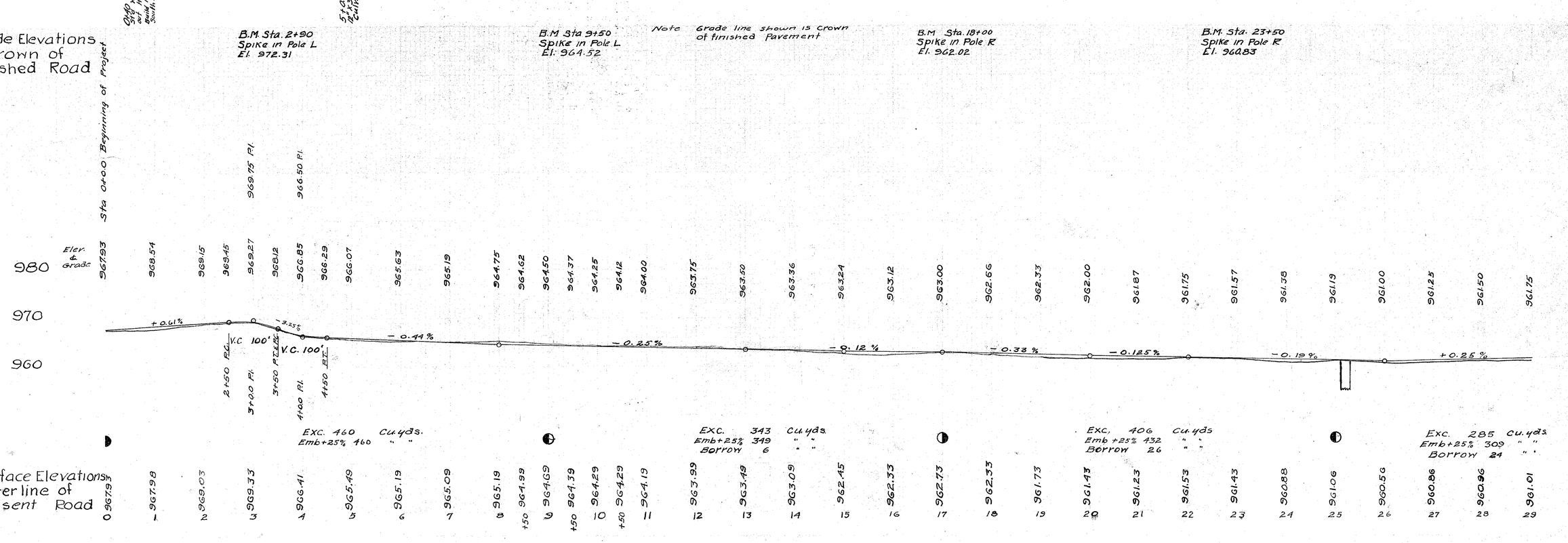
B.M. Sta. 2+90 Spike in Pole L El. 972.31

B.M Sta 9+50 Spike in Pole L El. 964.52

Note Grade line shown is crown of finished Pavement

B.M Sta. 18+00 Spike in Pole R El. 962.02

B.M. Sta. 23+50 Spike in Pole R El. 960.83



Surface Elevations Center line of Present Road

0	1	2	3	4	5	6	7	8	+50	9	+50	10	+50	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
967.93	967.98	969.03	969.33	969.41	965.49	965.19	965.09	965.19	964.99	964.69	964.39	964.29	964.23	964.19	963.99	963.49	963.09	962.45	962.33	962.73	962.33	961.73	961.43	961.23	961.53	961.43	960.88	961.06	960.56	960.86	960.96	961.01

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29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56

N

Sta. 28 to 36 on the North Remove hedge fence

Sta. 32+93 Extend 12" C.I.P with Sta 12". V.S.P Culv 6' Right 4' Left

Sta 38+50 Drive Place 16' of 8' Corr pipe

Drive 38+50

3 K. ± N.E. Norris James Fitterhouse +85

Sta. 53+50 Extend 12" C.I.P with Sta 12" 6' Right 4' Left

James Fitterhouse +48
Clara Hall

55+65 P.I.
Δ 1° 15' L
D = 1°
T 62.5'
E 0.38
L 125'

55+08.5 P.C.

55+82.5 P.T.

Sta 58+60 Drive Place 16' of 8' Corr pipe

Drive 58+60

Res
Sta 58+68 to Sta 59+70
Place 102'-8" tile

Clara Hall +60
40.53 N. Cribb

30 N57° 15' E

35

40

45

N 62° 30' E

50

55

N 1° 15' E

60

Alice Finnin +12
James Fitterhouse

33+03 P.I.
Δ 5° 15' R
D 2°
E 3
T 131.33
L 262.5

P.C. 31+68.67

P.T. 34+34.17

Sta 35+58 Drive- Place 16' of 8' Corr pipe

Drive 35+58

Sta 35+66 to Sta 36+30
Place 64' of 8" tile

Res

+85 James Fitterhouse
Clark Ricard

Sta 45+85 Drive
Place 16' of 10" Corr pipe

Drive 45+85

Sta 53+95 Drive
Place 16' of 8" Corr pipe

Bn

Drive 53+95

Sta 54+03 to 55+01
Place 98' of 8" tile

Res

Left Edge of Pav	Width	Station	Grade Elev	Right Width	Right Edge of Pav
961.42	9.00	30+71.6	961.57	9.00	961.42
961.34	9.00	31+00	961.40	9.00	961.25
961.27	9.00	31+25	961.25	9.00	961.10
961.20	9.00	31+50	961.10	9.00	960.95
961.11	9.00	31+71.67	960.97	9.00	960.82
961.09	9.00	32+00	960.80	9.00	960.65
961.00	9.00	32+21.6	960.67	9.00	960.52
960.83	9.00	32+50	960.50	9.00	960.35
960.97	9.00	32+71.67	960.64	9.00	960.49
961.15	9.00	33+00	960.82	9.00	960.67
961.37	9.00	33+34.17	961.04	9.00	960.89
961.47	9.00	33+50	961.14	9.00	960.99
961.69	9.00	33+84.17	961.36	9.00	961.21
961.73	9.00	34+00	961.46	9.00	961.31
961.82	9.00	34+25	961.62	9.00	961.47
961.86	9.00	34+34.17	961.68	9.00	961.53
961.96	9.00	34+50	961.78	9.00	961.63
961.98	9.00	34+75	961.94	9.00	961.79
962.06	9.00	35+00	962.10	9.00	961.95
962.17	9.00	35+34.17	962.32	9.00	962.17
No Extra Pavement					

Note Grade line here shown is ¢ of finished Pavement

B.M. Sta. 32+50
Spike in pole R.
El. 960.07

B.M Sta 40+05
Spike in pole R.
El. 962.56

B.M. Sta. 49+0.0
Spike in pole R.
El. 958.20

B.M. Sta. 59+50
Spike in pole R.
El 952.56

970
Elev. & Grade
960
950

961.75 962.00 961.40 960.80 960.65 960.82 961.14 961.16 962.10 962.75 963.25 963.50 963.60 963.43 963.10 962.45 961.80 961.15 960.87 960.59 960.31 960.03 959.75 959.56 959.37 959.18 959.00 958.53 958.06 957.82 958.00 958.37 958.56 958.50 957.97 957.21 955.68 954.15 953.34

960.50 P.I. 963.75 P.I. 958.25 P.I.

+0.25% −0.60% +0.64% +0.50% −0.65% −0.28% −0.19% −0.47% +0.37% −1.53% −0.81%

V.C. 100' P.C. V.C. 100' P.T. V.C. 100' P.C. V.C. 100' P.T.

32+0.0 P.C. P.I. 32+60 33+10.0 P.T. 37+50 P.C. P.I. 38+00 39+50 P.T. 55+50 P.C. P.I. 56+00 56+50 P.T.

Exc. 321 Cu.yds.
Emb +25% 321 " "

Exc. 394 Cuyds.
Emb +25% 396 " "
Borrow 2 " "

Exc. 568 Cu.yds
Emb +25% 568 " "

Elev Present ¢ 961.01

961.57 960.97 960.77 960.67 960.77 960.77 960.97 961.77 962.37 962.97 963.24 962.84 961.94 961.44 960.84 960.44 960.24 960.24 959.94 959.44 959.24 959.02 958.78 958.58 958.18 957.48 957.38 957.78 958.08 958.18 956.68 955.13 953.77 952.77

29 30 31 32 +50 33 +50 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 +50 56 57 58 59 60

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I.C.H. 238 SEC. D
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60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87

N

Sta 63+50 Drive Place 18' of 10" Corr. pipe

Drive 63+50

(5) Sta 65+36 Remove present Brdg. Build Sta 30'x24' Conc. Beam Bridge Build 2 Approach Slabs. Place 125.4 sqyds of Wearing Surface Bridge and approach Slabs. Deduct 52. lin ft for Pavement 125.4 Sqyds wearing surface on bridge and approach Slabs incl. in pavement estimate.

Sta. 69+68 Drive Place 16' of 8" Corr. pipe

Drive 69+68

Res

Sta 69+76 to Sta 70+50 Place 74' of 8" tile

Sta 73+00 Drive Place 16' of 8" Corr pipe

Drive 73+00

Brass tx girder +90 W.C.L. Bench

(6) Sta. 76+72 Remove 2 13'x28' Stone Culv. Build Sta 24'x32' V.S.P. Culv.

Sta 78+15 Build Sta 4'-12" Side ditch incl

Remove hedge fence on the North Sta 73 to Sta 83

Sta 83+08 Drive Place 16' of 8" Corr pipe

Drive 83+08

Res

Sta 83+16 to Sta 84+50 Place 134' of 8" tile

Sta. 87+50 Drive Place 16' of 8" Corr pipe

Drive 87+50

Wm L. Bennett Farm & Railroad Bearings +48

N 61° 15' E

N 67° 45' E

Sta 60+00 Drive Place 16' of 10" Corr pipe

Drive 60+00

+88 Clark Ricard Lettie A Hedges

Sta. 69+75 Place 16' of 8" Corr. pipe

Drive 69+75

Drive 72+20

Sta 72+20 Drive Place 16' of 8" Corr pipe

Sta. 55 to 78+50 Remove hedge fence on the South

Sta 84+50 to Sta 85+70 Place 120' of 8" tile

Sta 85+80 Drive Place 20' of 8" Corr pipe

Res

Drive 85+80

84+13.5 P.C.

87+38.5 P.T.

85+76 P.I.
Δ 6° 30' R
D 2°
E 4.6'
T 162.5
L 325

Left Edge of Pav.	Left Width	Station	Grade Elev.	Right Width	Right Edge of Pav.
957.87	9.00	83+13.5	958.02	9.00	957.87
958.17	9.00	83+25	958.29	9.00	958.14
958.87	9.00	83+50	958.93	9.00	958.78
959.58	9.00	83+75	959.58	9.00	959.43
960.37	9.00	84+00	960.24	9.00	960.09
961.09	9.00	84+25	960.89	9.00	960.74
961.84	9.00	84+50	961.55	9.00	961.40
962.53	9.00	84+75	962.20	9.00	962.05
963.19	9.00	85+00	962.86	9.00	962.71
963.53	9.00	85+13.5	963.20	9.00	963.05
963.82	9.00	85+25	963.49	9.00	963.34
964.33	9.00	85+50	964.00	9.00	963.85
964.75	9.00	85+75	964.42	9.00	964.27
965.11	9.00	86+00	964.78	9.00	964.63
965.35	9.00	86+25	965.02	9.00	964.87
965.46	9.00	86+38.5	965.13	9.00	964.98
965.52	9.00	86+50	965.19	9.00	965.04
965.60	9.00	86+75	965.27	9.00	965.12
965.54	9.00	87+00	965.25	9.00	965.10
965.40	9.00	87+25	965.19	9.00	965.04
965.26	9.00	87+50	965.13	9.00	964.98
965.12	9.00	87+75	965.07	9.00	964.92
964.97	9.00	88+00	965.00	9.00	964.85
964.82	9.00	88+25	964.94	9.00	964.79
964.76	9.00	88+38.5	964.91	9.00	964.76

No Extra Payment

B.M. Sta. 65+20
Spike in Pole R
El. 949.31

B.M. Sta. 70+02
Spike in walnut tree L.
El. 958.02

Note - Grade line shown is Crown of finished Pavement

B.M. Sta. 80+60
Spike in pole R.
El. 953.66

B.M. Sta. 86+15
Spike in pole R.
El. 965.54

970
El. & Grade
960
950

953.34 952.53 951.72 951.50 951.27 951.05 950.83 950.72 950.77 951.15 951.84 952.88 954.06 956.44 957.62 958.54 958.96 958.73 958.00 957.00 955.00 954.00 953.28 953.00 Fl. 953.14 953.28 953.57 953.85 954.14 954.42 954.36 954.81 955.05 955.87 955.00 Fl. 956.51 957.12 958.93 960.24 961.55 962.86 964.17 964.78 965.19 965.25 965.00 964.75 964.63 964.25 964.50 Fl. 963.37 962.25

- 0.81% - 0.22% + 2.375% - 2.00% + 0.285% + 2.62% - 0.25% - 2.25%

V.C. 200' 66+50 P.C. P.I. 67+50 68+50 P.T.

V.C. 200' 70+50 P.C. P.I. 71+50 72+50 P.T.

V.C. 100' 74+50 P.C. P.I. 75+00 75+50 P.T.

V.C. 300' 80+50 P.C. P.I. 82+00 83+50 P.T.

V.C. 200' 85+00 P.C. P.I. 86+00 87+00 P.T.

V.C. 100' 89+50 P.C. P.I. 90+00 90+50 P.T.

Exc. 778 Cu. yds
Emb +25% 839 " "
Borrow 61 " "

Exc. 358 Cu. yds
Emb +25% 402 " "
Borrow 44 " "

Exc. 359 Cu. yds
Emb +25% 409 " "
Borrow 50 " "

952.77 952.37 951.57 951.07 950.57 950.95 950.52 950.72 951.52 953.54 956.14 957.84 958.34 958.04 956.04 954.04 953.04 952.59 953.26 953.36 953.46 953.76 954.46 955.66 957.25 959.63 960.99 962.49 963.49 964.49 965.09 964.99 964.39 964.29 964.05 961.59

60 61 62 63 64 65 66 67 68 69 70 71 +50 72 73 74 75 76 77 78 79 80 81 82 83 84 +50 85 +28 86 +00 87 88 89 90 91

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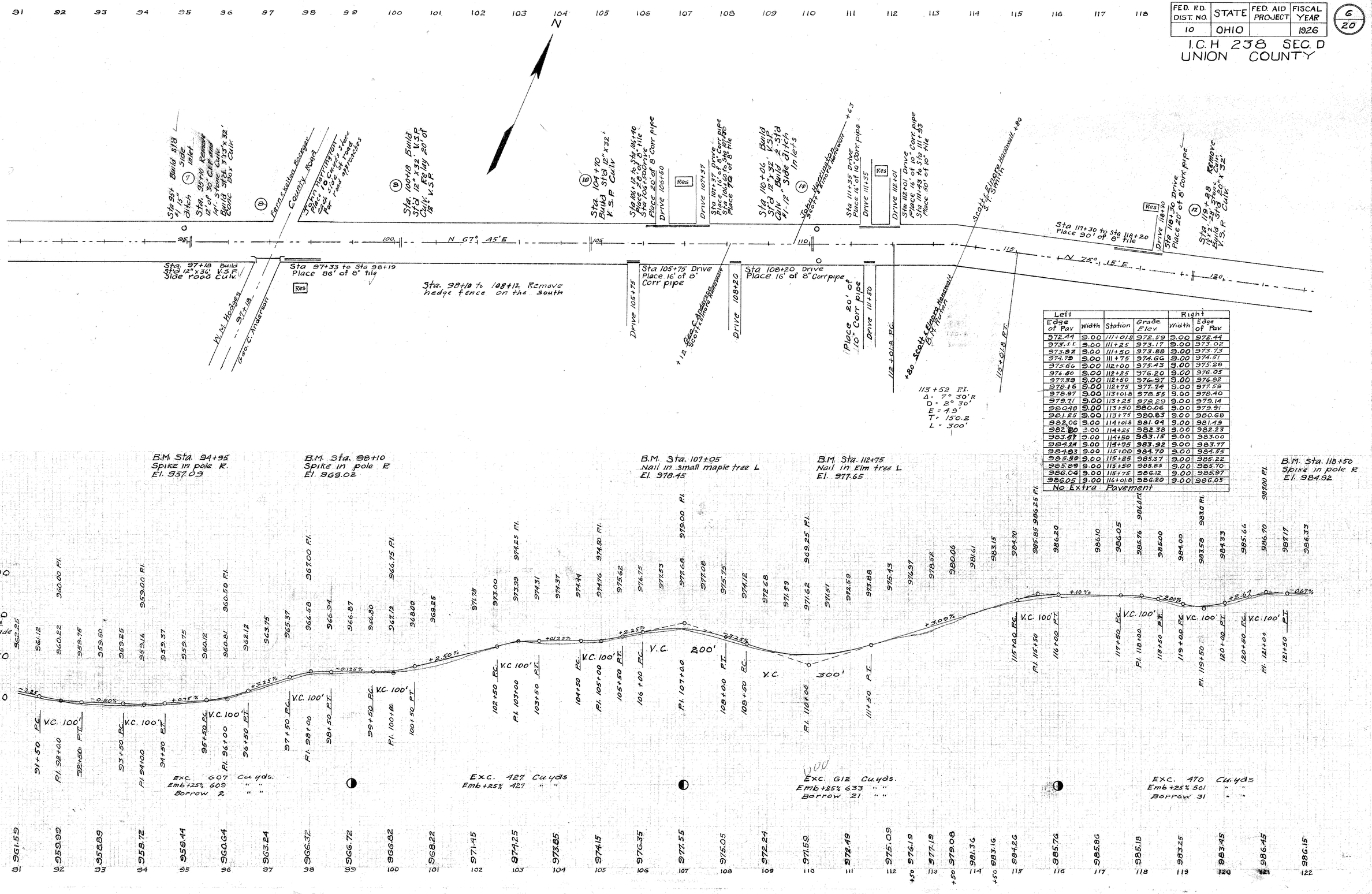
UNION COUNTY



Left Edge of Pav	Width	Station	Grade Elev.	Right Width	Right Edge of Pav
972.44	9.00	111+018	972.59	9.00	972.44
973.16	9.00	111+25	973.17	9.00	973.02
973.92	9.00	111+50	973.88	9.00	973.73
974.79	9.00	111+75	974.66	9.00	974.51
975.66	9.00	112+00	975.43	9.00	975.28
976.80	9.00	112+25	976.20	9.00	976.05
977.33	9.00	112+50	976.97	9.00	976.82
978.16	9.00	112+75	977.74	9.00	977.59
978.97	9.00	113+018	978.55	9.00	978.40
979.71	9.00	113+25	979.29	9.00	979.14
980.48	9.00	113+50	980.06	9.00	979.91
981.25	9.00	113+75	980.83	9.00	980.68
982.06	9.00	114+018	981.64	9.00	981.49
982.80	9.00	114+25	982.38	9.00	982.23
983.57	9.00	114+50	983.15	9.00	983.00
984.14	9.00	114+75	983.92	9.00	983.77
984.83	9.00	115+00	984.70	9.00	984.55
985.50	9.00	115+25	985.37	9.00	985.22
985.89	9.00	115+50	985.85	9.00	985.70
986.04	9.00	115+75	986.12	9.00	985.97
986.05	9.00	116+018	986.20	9.00	986.05

No Extra Pavement

B.M. Sta. 94+95
Spike in pole R.
El. 957.09

B.M. Sta. 98+10
Spike in pole R
El. 969.02

B.M. Sta. 107+05
Nail in small maple tree L
El. 978.45

B.M. Sta. 112+75
Nail in Elm tree L
El. 977.65

B.M. Sta. 118+50
Spike in pole R
El. 984.92

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N

(15) Sta. 124+80 Remove 24 of 15"x 32' R.C.P. Culv.

Sta. 125+34 Skew 45° Right Ahead

Sta 125+58 to sta 126+58 Place 100 of 8" tile

(18) Sta. 126+10 Remove 28 of 15" V.S.P. Build Sta 20'x 38' V.S.P. Culv.

(16) Sta. 143+43 Build Sta 12"x 32' V.S.P. Culv.

(17) Sta. 146+75 12"x 32' Build Sta V.S.P. Culv. Side Ditch Sta 1-6" Inlets

Drive 148+00 Sta 148+00 Place 16 of 8' Corr. pipe

149+00 County Road

Place 10 Cu.yds Stone for Road Approach

County County

→ To Delaware
Sec. B I.C.H 238

Sta 142+60 Place 16' of 10" Corr pipe

Drive 142+60

Sta 123+60 Place 16' of 8" Corr pipe

Drive 123+60

Sta 125+50 Place 16' of 8" Corr pipe

Drive 125+50

Sta 130+50 Place 30 of 8" Corr. pipe

Sta 130+65 to Sta 131+65 Place 100'-8" Drain Tile

Drive 130+50

Drive 132+40

Sta 132+40 Place 16' of 8" Corr pipe

Steel Girder Chas. W. Crandall

Sta. 145+75 Place 16' of 10" Corr. pipe

Drive 145+75

Sta. 146+15 to Sta. 147+45 Place 70' of 8" Tile

Sta. 148+00 Place 16' of 8" Corr pipe

Drive 148+00

Sta. 151+00 Place 16' of 10" Corr. pipe

Drive 151+00

Union-Delaware

Sta 151+50 End of Improvement

N 76° 15' E

+63 Beam Sta. Ahead & Crandall

+42 Beam & Anchors Chas. W. Crandall

B.M. Sta. 122+95
Spike in pole R
El 984.80

B.M. Sta. 128+75
Spike in pole R
El. 990.19

B.M. Sta. 134+70
Spike in pole R
El. 993.87

B.M. Sta. 143+50
Spike in pole R
El. 992.44

B.M. Sta. 149+20
Spike in Hickory tree L
El. 992.15

1000 El. of Grade
990
980

+0.67% −1.40% +2.27% −0.26% +0.25% −0.92% −0.44% −0.125% −0.60%

V.C. 100' P.C. 123+50 P.T. 124+40
V.C. 200' P.C. 125+50 P.T. 127+50
V.C. 100' P.C. 131+50 P.T. 132+50
V.C. 200' P.C. 139+00 P.T. 141+00
P.I. 124+40 P.I. 126+50 P.I. 132+00 P.I. 140+00

Sta	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	+80
Ground El.	986.15	986.25	987.05	984.93	984.06	984.36	986.46	988.80	990.99	992.99	995.39	995.39	995.19	994.79	994.79	994.84	995.27	995.57	995.37	994.77	993.37	992.87	992.37	991.97	991.42	991.12	991.52	991.22	990.32	990.02	990.22

EXC. 430 Cu.yds.
Emb+25% 433 " "
Borrow 3 " "

EXC. 344 Cu.yds
Emb+25% 344 " "
" "

EXC. 289 Cu.yds.
Emb+25% 359 " "
Borrow 70

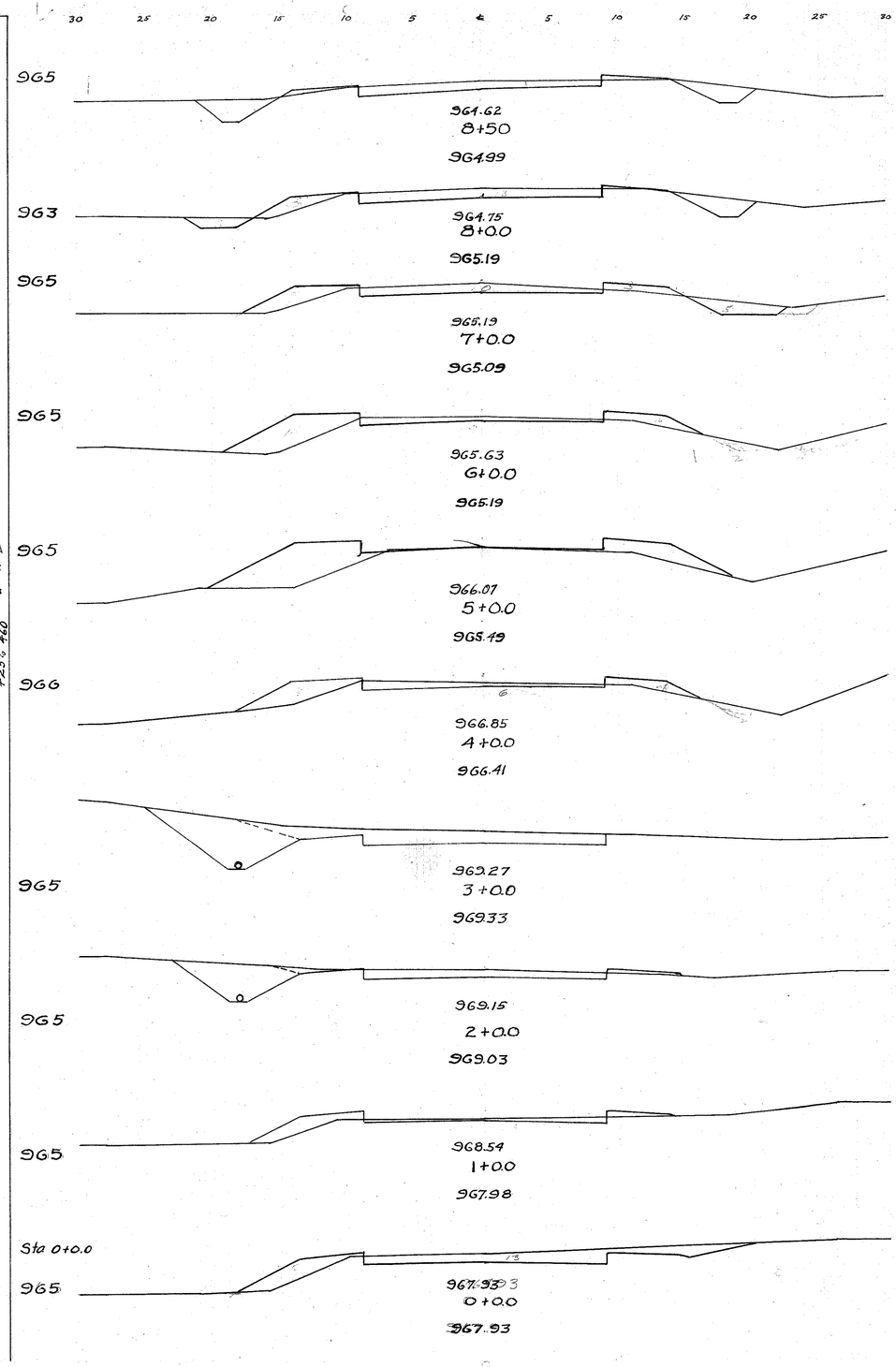
EXC. 260 Cu.yds
Emb+25% 269 " "
Borrow 9 " "

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H 238 SEC D
UNION COUNTY

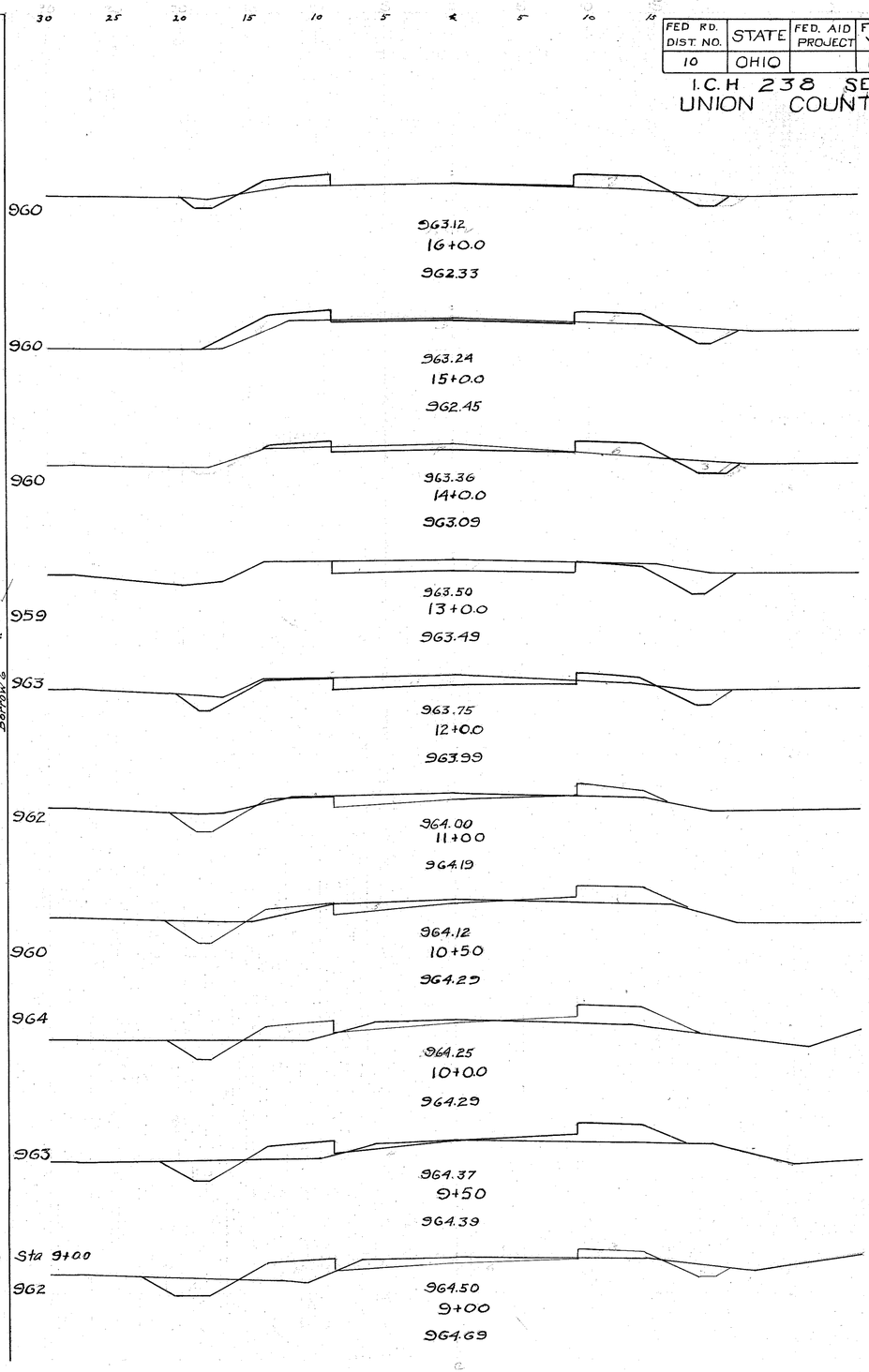
End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
22	4		
		39	9
20	6		
		65	30
15	10		
		37	52
5	18		
		9	94
0	33		
		11	85
6	13		
		98	24
47/24	0		
		66	6
12/27	3		
		59	22
5	9		
		43	32
18	8		

EXC. 160 Cu. Yds.
EMB. 368 " "
+25% 460 " "



End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
14	13		
		33	46
4	12		
		18	46
6	13		
		30	41
10	9		
		63	17
24	0		
		78	6
18	3		
		52	13
10	4		
		19	16
11	13		
		16	30
7	20		
		14	36
8	19		
		20	28
14	11		
		33	14

EXC. 343 Cu. Yds.
EMB. 279 " "
+25% 349 " "
BORROW 6 " "



FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H. 238 SEC. D
UNION COUNTY

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill	
6	12			960 — 961.00 / 26+0.0 / 960.56
		35	69	
13	25			Sta 25+0.0 959 — 961.19 / 25+0.0 / 961.06
		31	76	
4	16			957 — 961.38 / 24+0.0 / 960.88
		44	46	
20	9			957 — 961.57 / 23+0.0 / 961.43
		70	33	
18	9			961 — 961.75 / 22+0.0 / 961.53
		46	37	
7	11			960 — 961.87 / 21+0.0 / 961.23
		28	42	
8	12			960 — 962.00 / 20+0.0 / 961.43
		41	44	
14	12			959 — 962.33 / 19+0.0 / 961.73
		83	33	
31/20	6			962.66 / 18+0.0 / 962.33
		63	35	958
14	13			Sta 17+0.0 962 — 963.00 / 17+0.0 / 962.73

EXC. 406 Cu.Yds.
EMB. 336
BORROW 26

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill	
8	16			
		18	26	960 — 961.14 / 33+50 / 960.77
13	12			
		22	24	960 — 960.82 / 33+0.0 / 960.77
14	14			
		20	20	960 — 960.65 / 32+50 / 960.67
11	8			
		17	15	960 — 960.80 / 32+0.0 / 960.77
8	8			
		28	35	960 — 961.40 / 31+0.0 / 960.97
7	11			
		48	32	Sta 30+0.0 960 — 962.00 / 30+0.0 / 961.57
19	6			
		80	31	958 — 961.75 / 29+0.0 / 961.01
24	11			
		65	43	961.50 / 28+0.0 / 960.96
11	12			956
		57	52	961.25 / 27+0.0 / 960.86
20	16			956
		48	52	

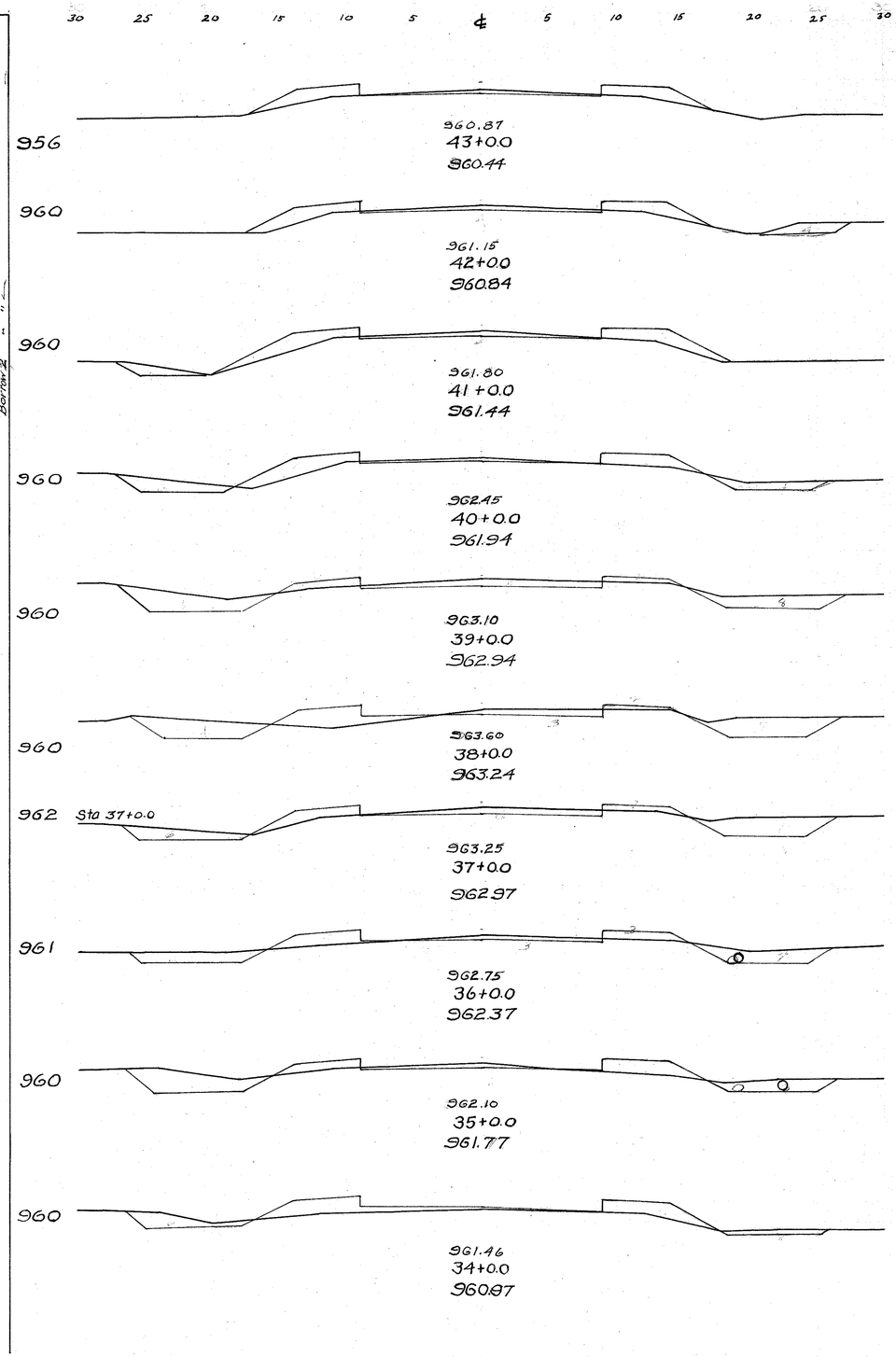
EXC. 321 Cu.Yds.
EMB. 285
BORROW 24

FED. RD. DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H 238 SEC. D
UNION COUNTY

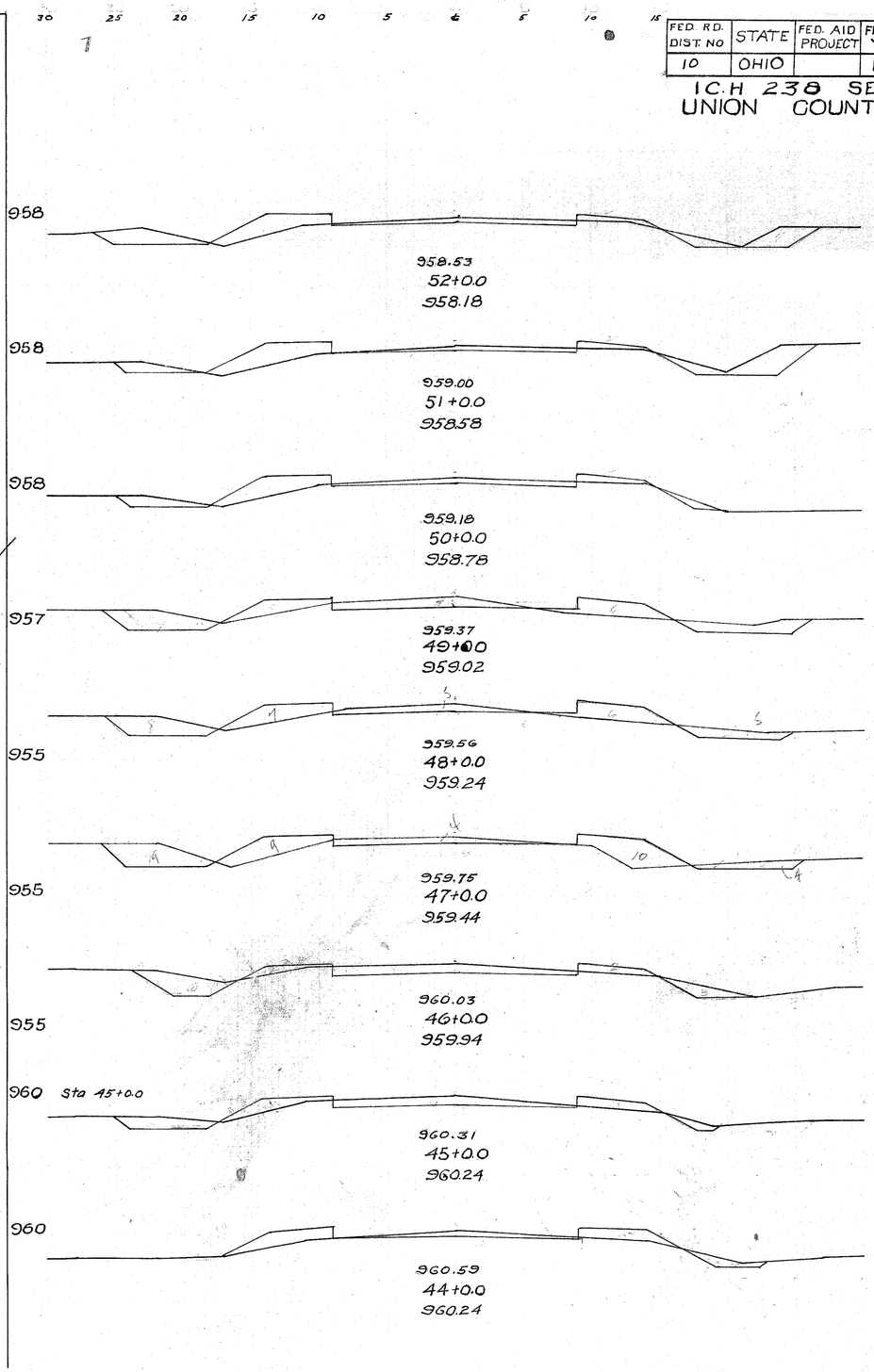
End Area Cut	End Area Fill	Cu. Yds Cut	Cu. Yds Fill
3	12		
		20	44
8	12		
		28	48
7	14		
		37	50
13	13		
		72	33
26	5		
		94	30
25	11		
		89	33
23			
		72	28
16/5	8		
		44	31
15/21	9		
		54	46
		151	
8	16		

Exc. 394 Cu. Yds
Emb. 396
+25% 396
Borrow 2



End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
8	15		
		50	48
19	11		
		67	41
17	11		
		48	41
9	11		
		57	41
21	11		
		65	44
14	13		
		57	57
16	18		
		61	41
17	4		
		61	20
16	7		
		39	35
5	12		
		15	44
3	12		

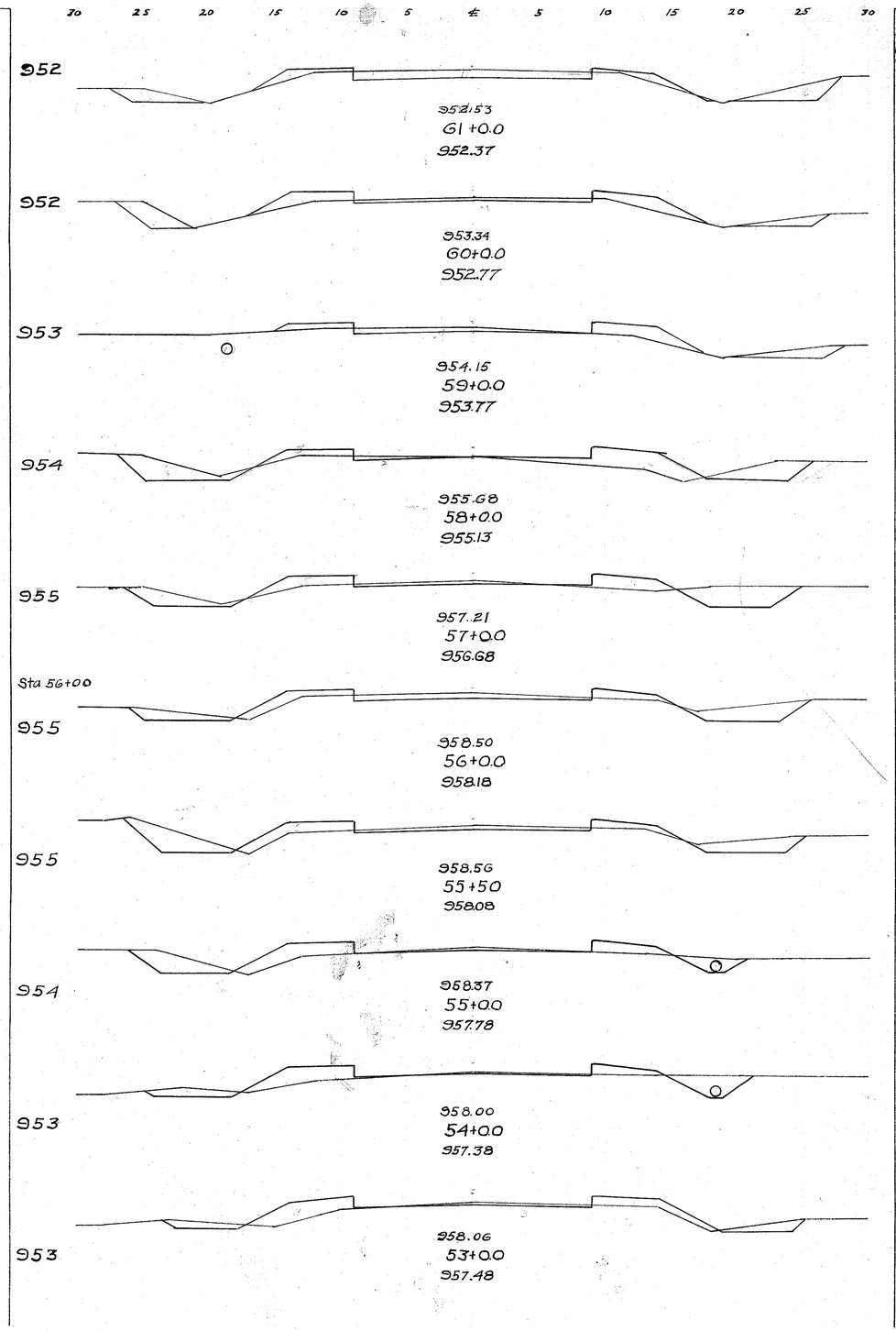
Exc. 368
Emb. 459
+25% 368



FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

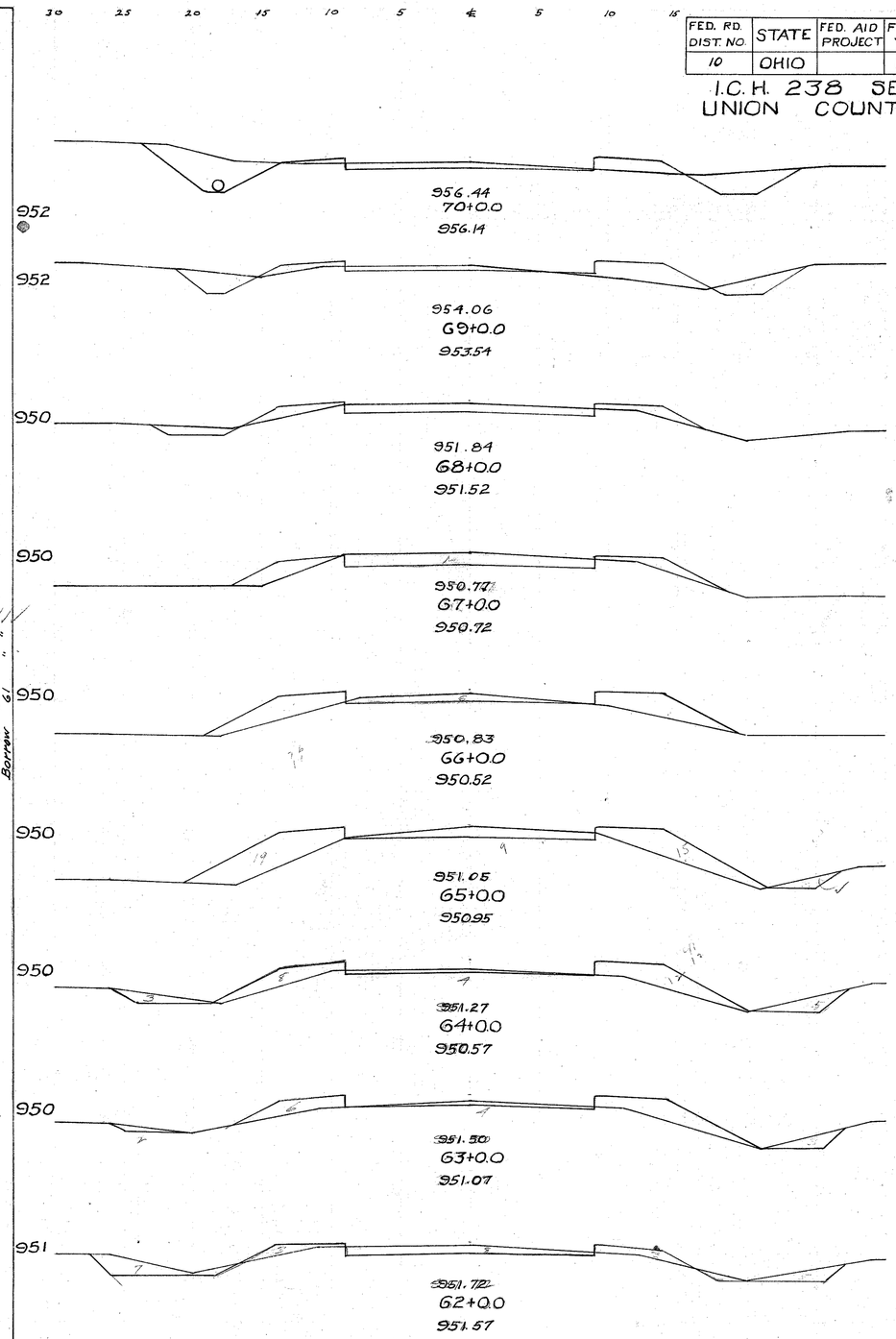
I.C.H. 238 SEC. D
UNION COUNTY

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
22	6		
		65	32
13	11		
		32 7yds off for tile	33
8	7		
		38 8yds off for tile	41
17	15		
		63	48
17	11		
		65	33
18	7		
		34	15
19	9		
		26	18
9	11		
		22	41
3	11		
		20	48
8	15		



End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
10	6		
		52	22
18/32	6		
		87	35
15	13		
		52	37
13	7		
		50	31
14	10		
		37	59
6	22		
33' for	out Bridge	33 11 22	104 34 70
12	34		
		44	98
12	19		
		39	67
9	17		
		54	43
20	6		
		78	22
22	6		

Cu yds
778 Emb
671 Emb
839 125% Borrow
61

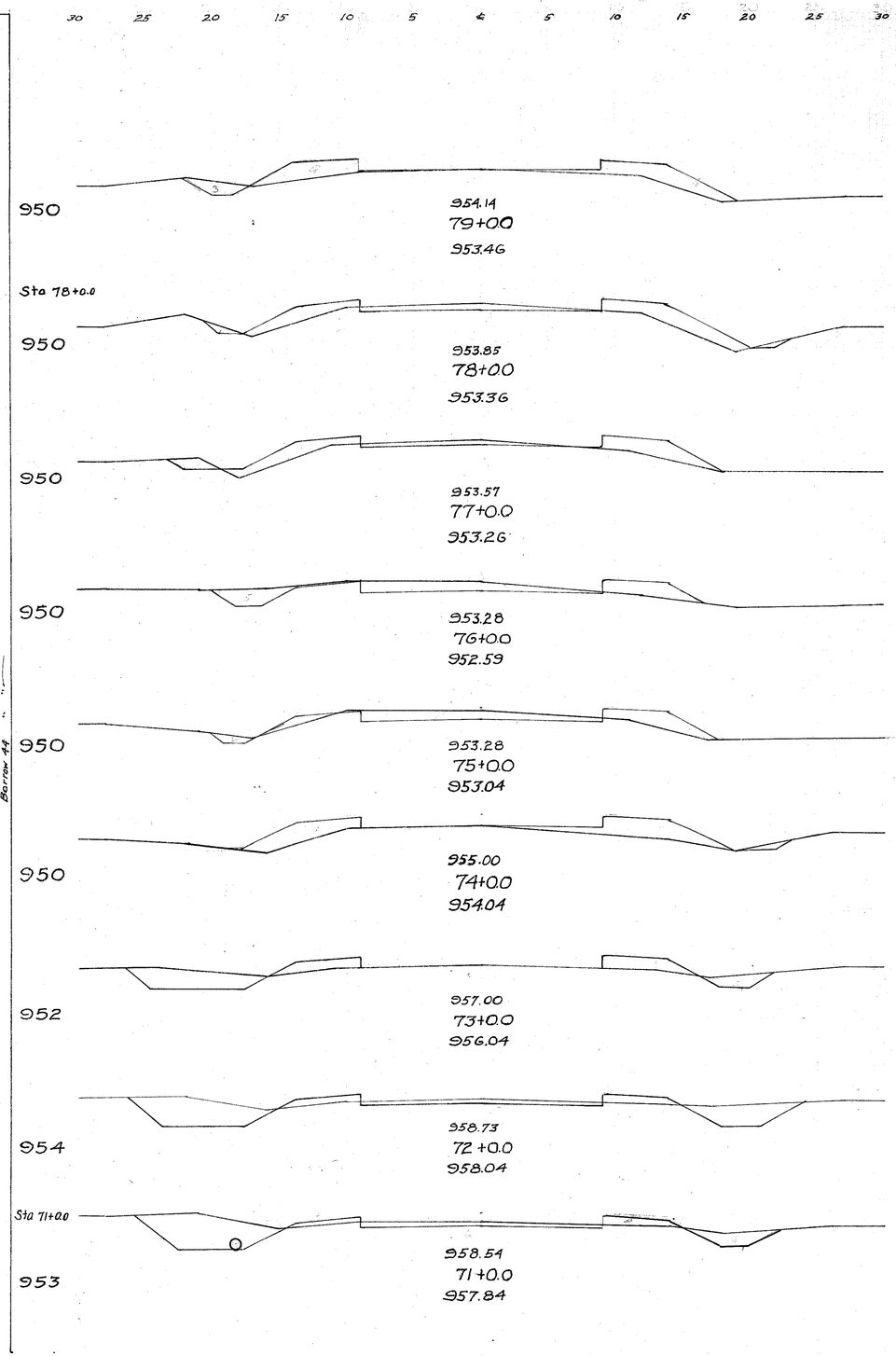


FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H. 238 SEC. D
UNION COUNTY

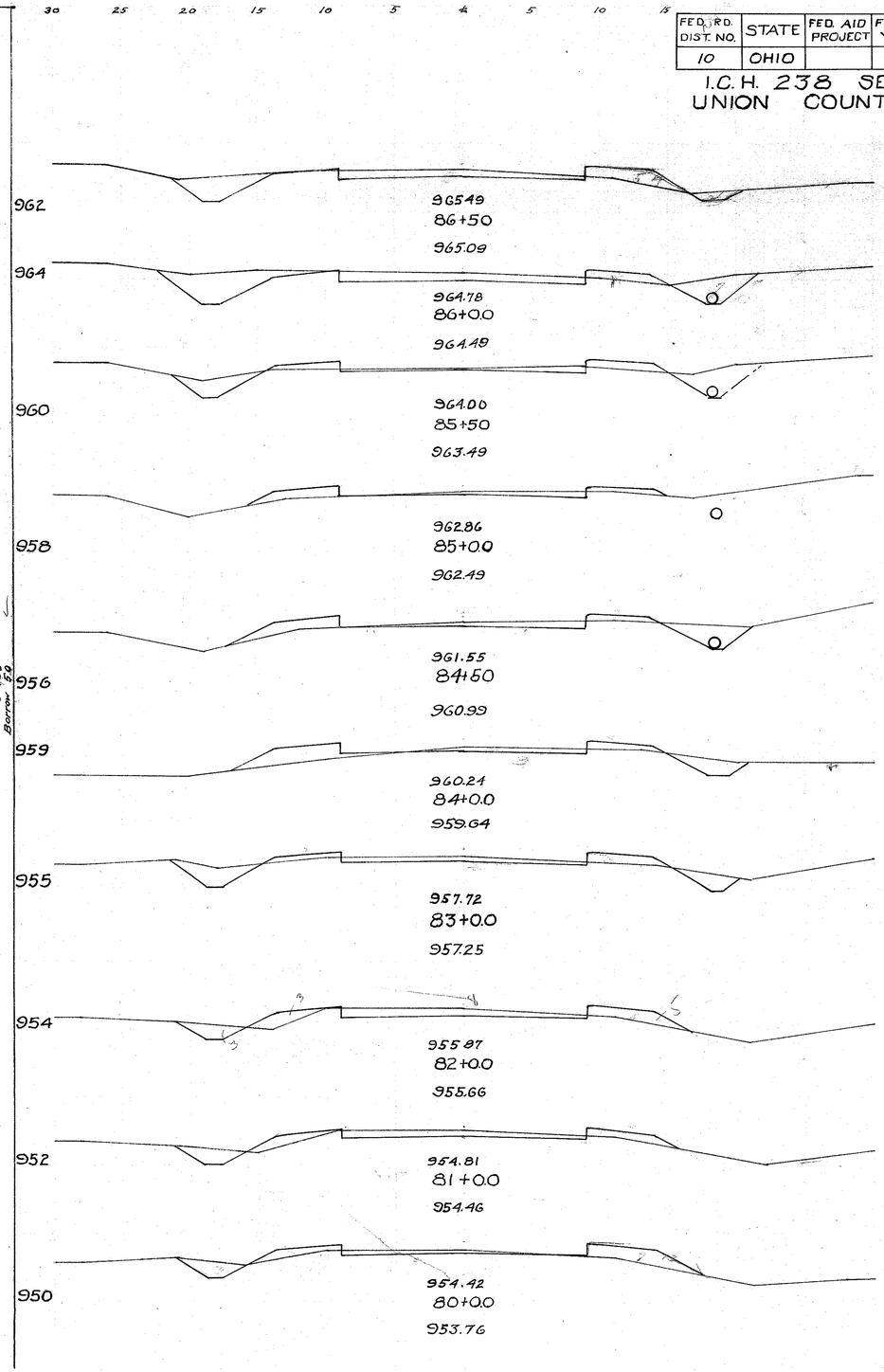
End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
6	19		
		24	69
7	18		
		24	61
6	15		
		37	41
14	7		
		48	31
12	10		
		26	65
2	25		
		31	67
15	11		
		83	33
330	7		
		108	24
29/10	6		

Exc. 358 Cu.yds.
Emb. 302
125% 378
Borrow 44



End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
18	4		
		31	10
16	7		
		43	9
30/23	3		
		30	9
13	7		
10	7		
		16	13
7	7		
		10	16
4/9	10		
		16/16	19
8	11		
		44	33
16	7		
		50	30
11	9		
		41	32
11	8		
		32	33
6	10		
		22	54

Exc. 359 Cu.yds.
Emb. 321
125% 402
Borrow 80

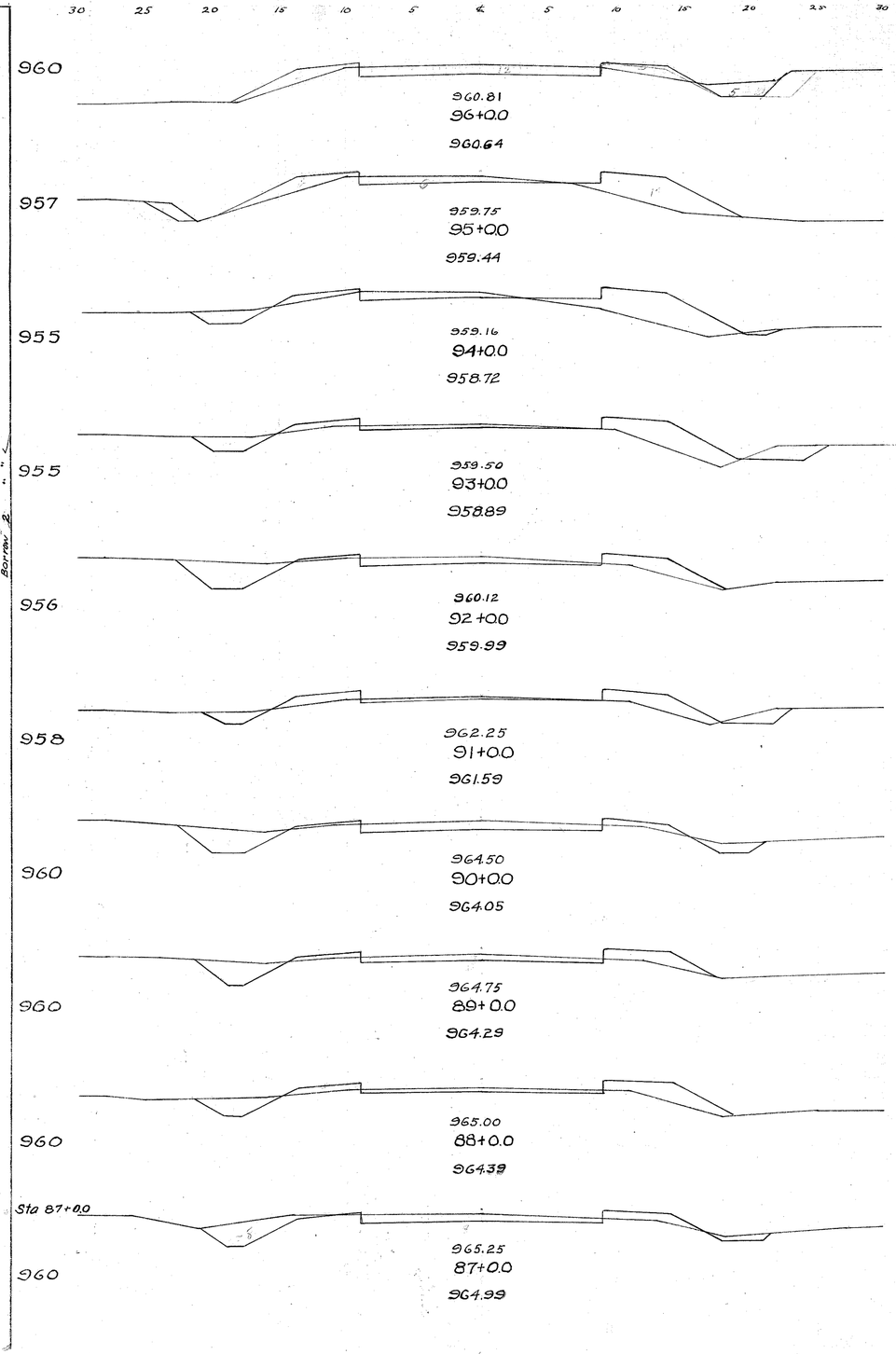


FED. RD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H. 238 SEC. D
UNION COUNTY

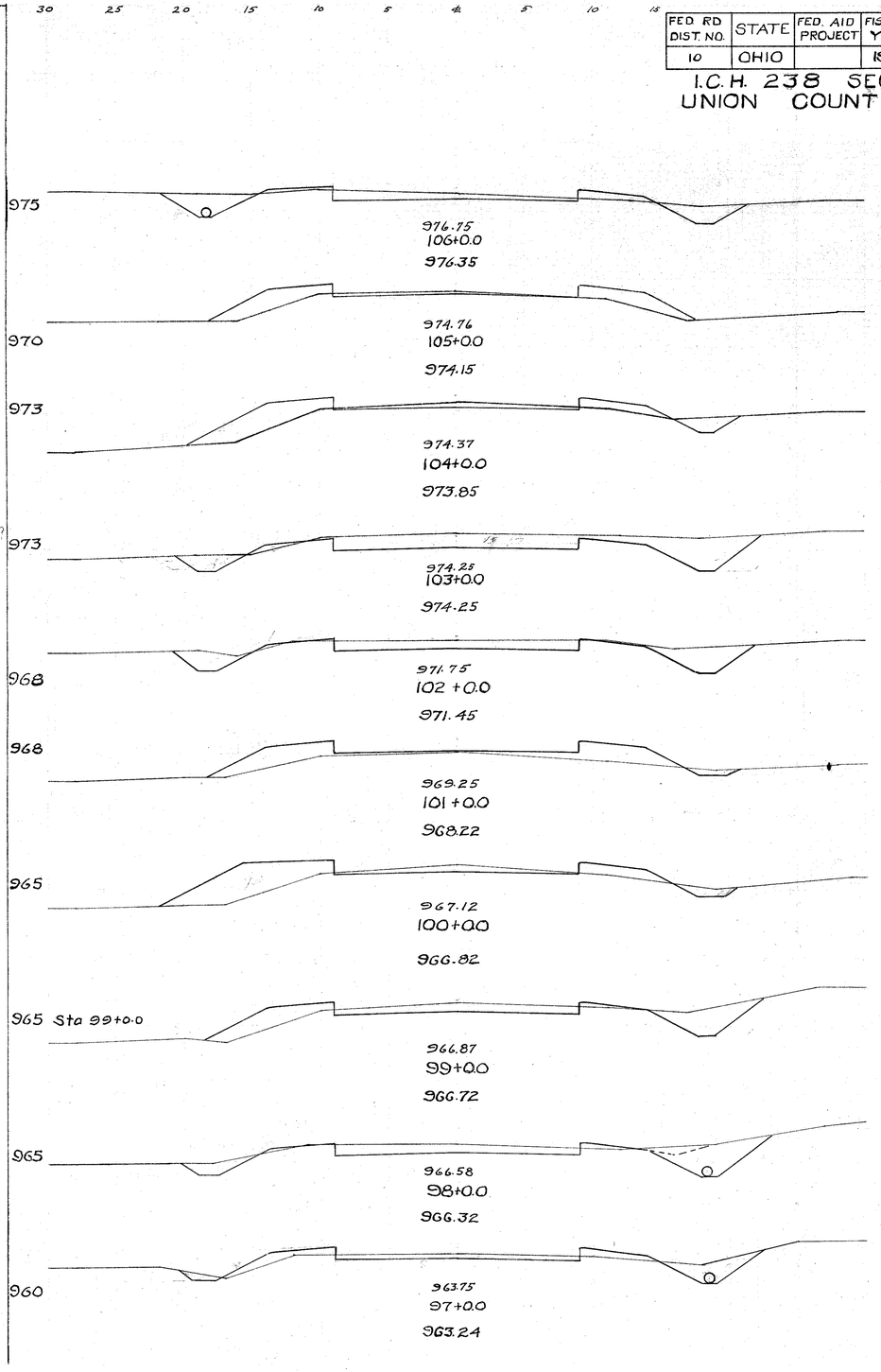
End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
17	9		
		46	59
8	23		
		30	81
8	21		
		37	68
12	16		
		54	46
17	9		
		44	39
7	12		
		50	31
20	5		
		63	24
14	8		
		43	39
9	13		
		50	31
18	4		

EXC. 207 Cu. Yds.
END AREA 69
+12% 8
BORROW 276



End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
20	4		
		63	17
14/20	5		
		44	43
4	18		
		22	65
8	17		
		80	35
35	2		
		109	6
24	1		
		46	46
1	24		
		15	78
7	18		
		48	52
19	10		
		83	22
26/16	2		
		46	17
9/16	7		
		61	30

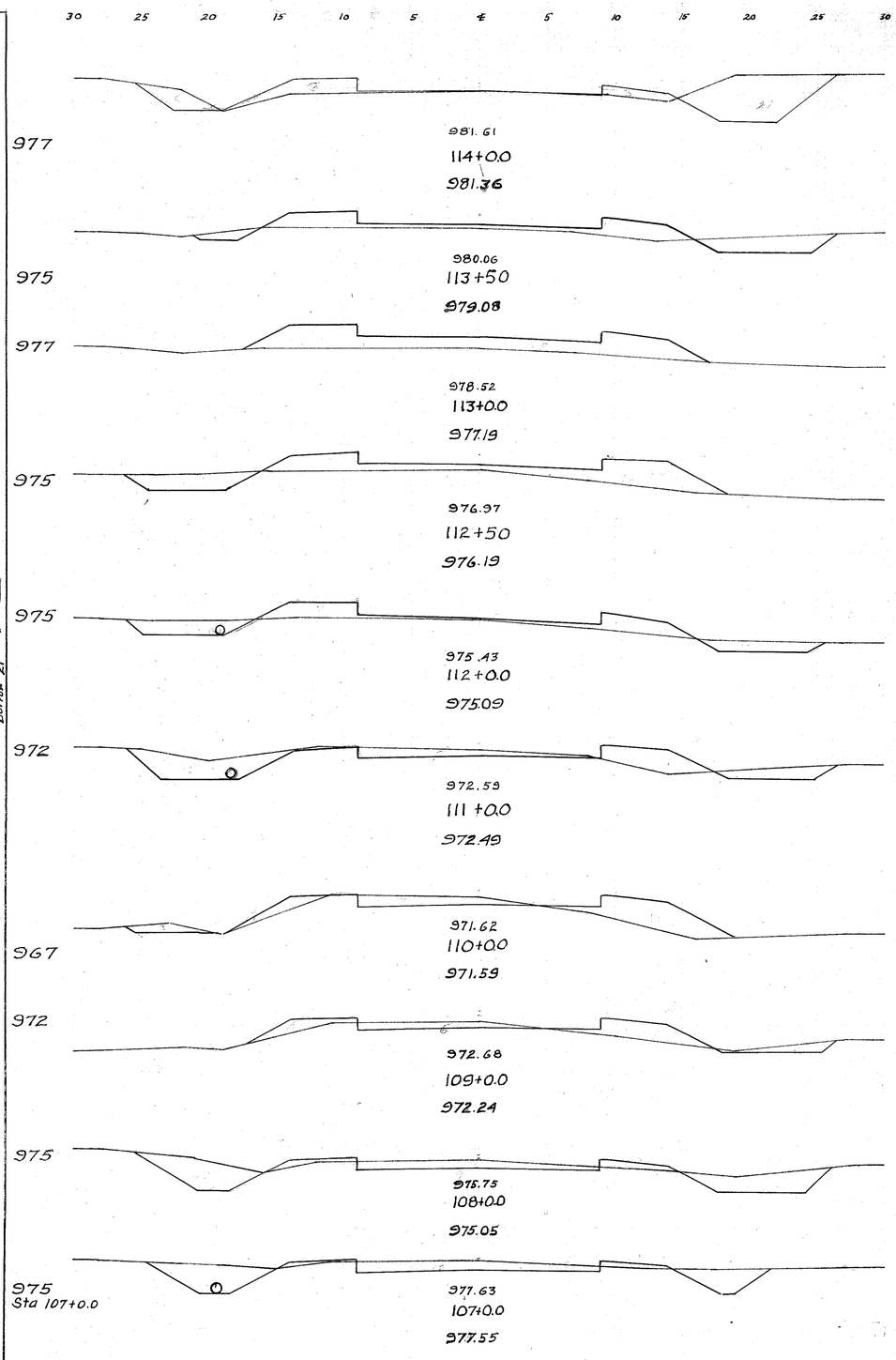
EXC. 467 Cu. Yds.
END AREA 392
+25% 98



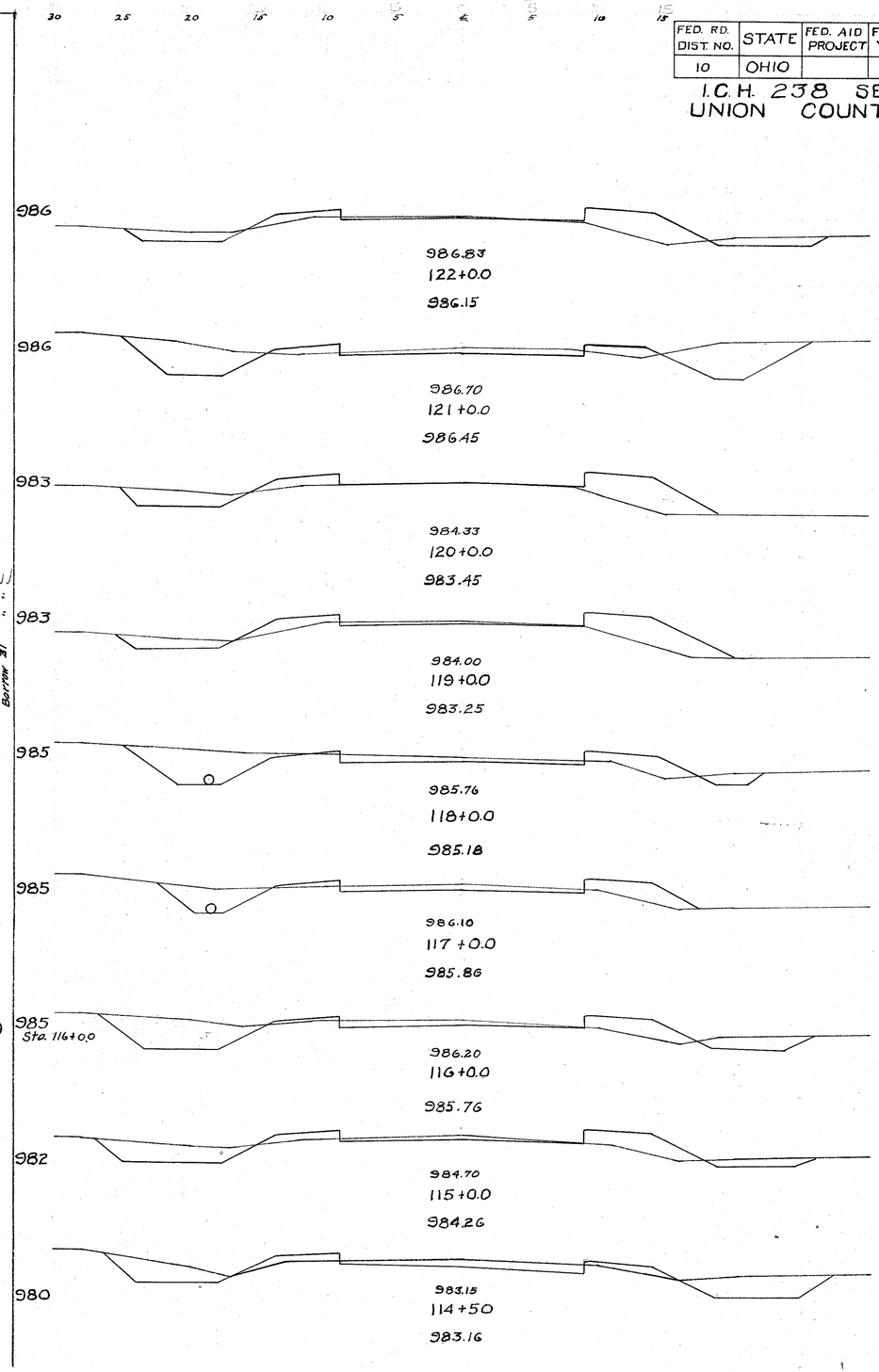
FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H. 238 SEC. D
UNION COUNTY

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill	
32	10			
		42	28	
13	20			
		12	54	
0	38			
		9	65	
10	32			
		22	46	
14 / 7	18			Exc. 612 Cu. yds. Emb. 507 " " +25% 633 " " Borrow 21 " "
		35	54	
12 / 27	11			
		68	61	
10	22			
		37	65	
10	13			
		80	35	
33	6			
		117	18	
30 / 20	4			◓



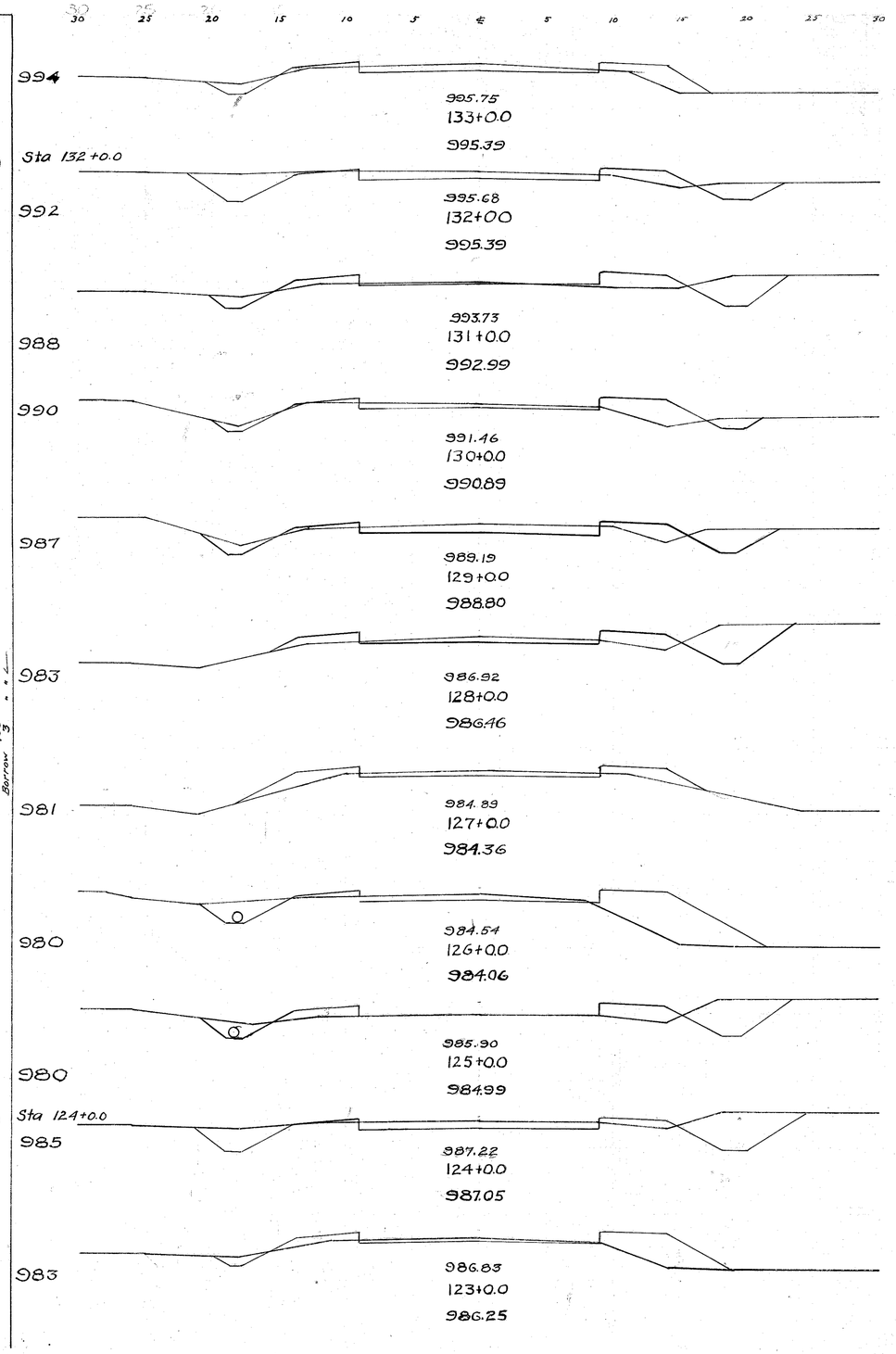
End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill	
6	18			
		31	63	
11	16			
		85	41	
35	6			
		82	50	
9	21			
		32	78	
8	21			Exc. 470 Cu. yds. Emb. 401 " " +25% 501 " " Borrow 31 " "
		63	52	
26 / 8	7			
		28	33	
7 / 16	11			
		82 / 67	43 / 41	
28	12			◓
		85	46	
18	13			
		46	19	
32	7			
		59	16	



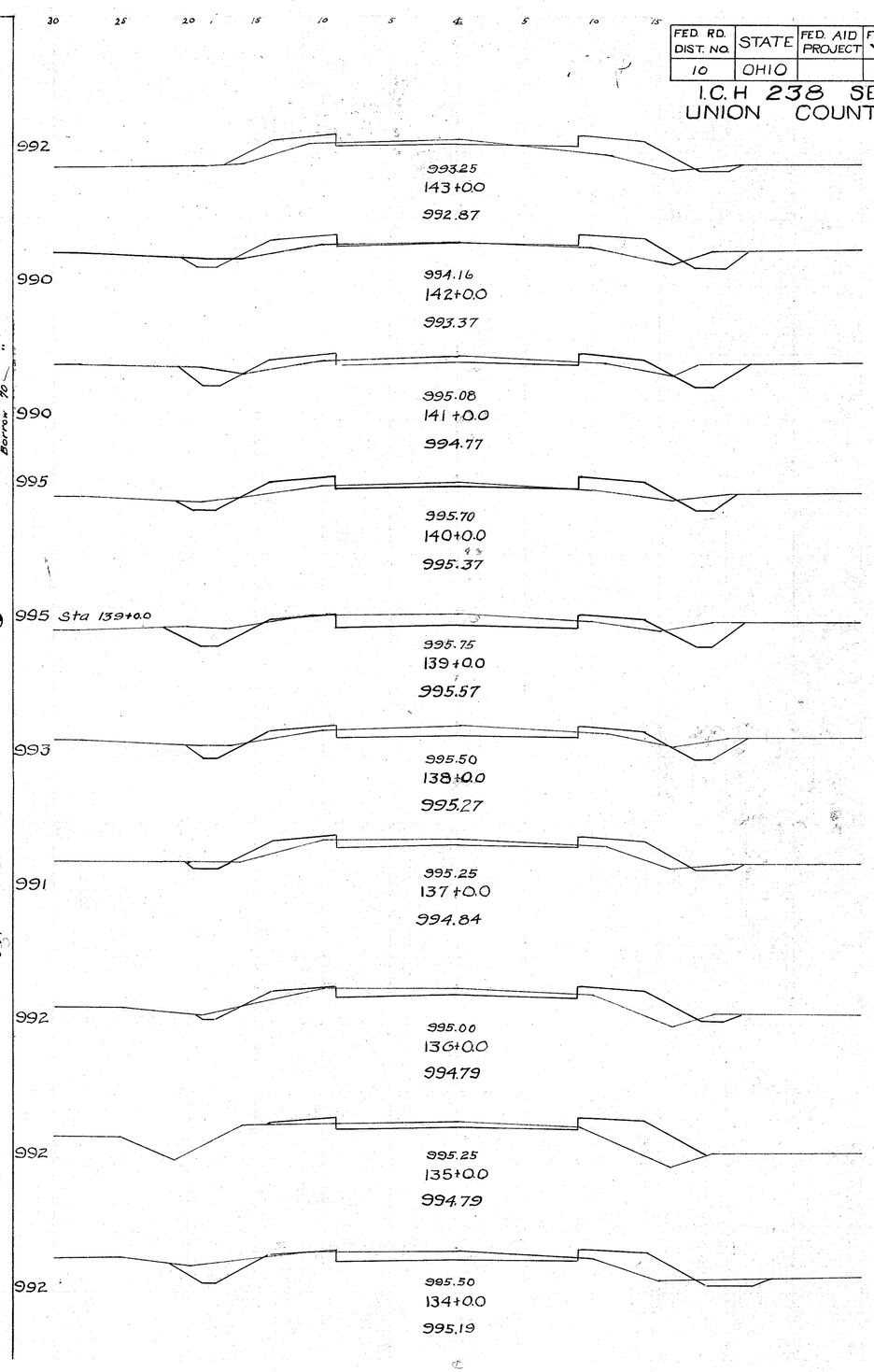
FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H 238 SEC. D
UNION COUNTY

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill	
11	8			
		69	30	
26	8			Sta 132+0.0
		70	31	
12	9			
		39	37	
9	11			
		54	35	
20	8			
		72	31	
19	9			
		46	39	
6	12			Exc. 430 Cu. yds. Emb. 347 " " +25% 433 " " Borrow 3 " "
		31	76	
11/5	29			
		33	72	
13/16	10			
		85	26	
30	4			Sta 124+0.0
		67	41	
6	18			



End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill	
5	16			
		22	54	
7	13			
		46	39	
18	8			Exc. 289 Cu. yds. Emb. 287 " " +25% 359 " " Borrow 70 " "
		52	32	
10	9			
		65	26	
25	5			
		76	20	
16	6			
		43	33	
7	12			Exc. 344 Cu. yds. Emb. 275 " " +25% 344 " "
		30	48	
9	14			
		28	55	
6	16			
		44	52	
18	12			
		54	37	

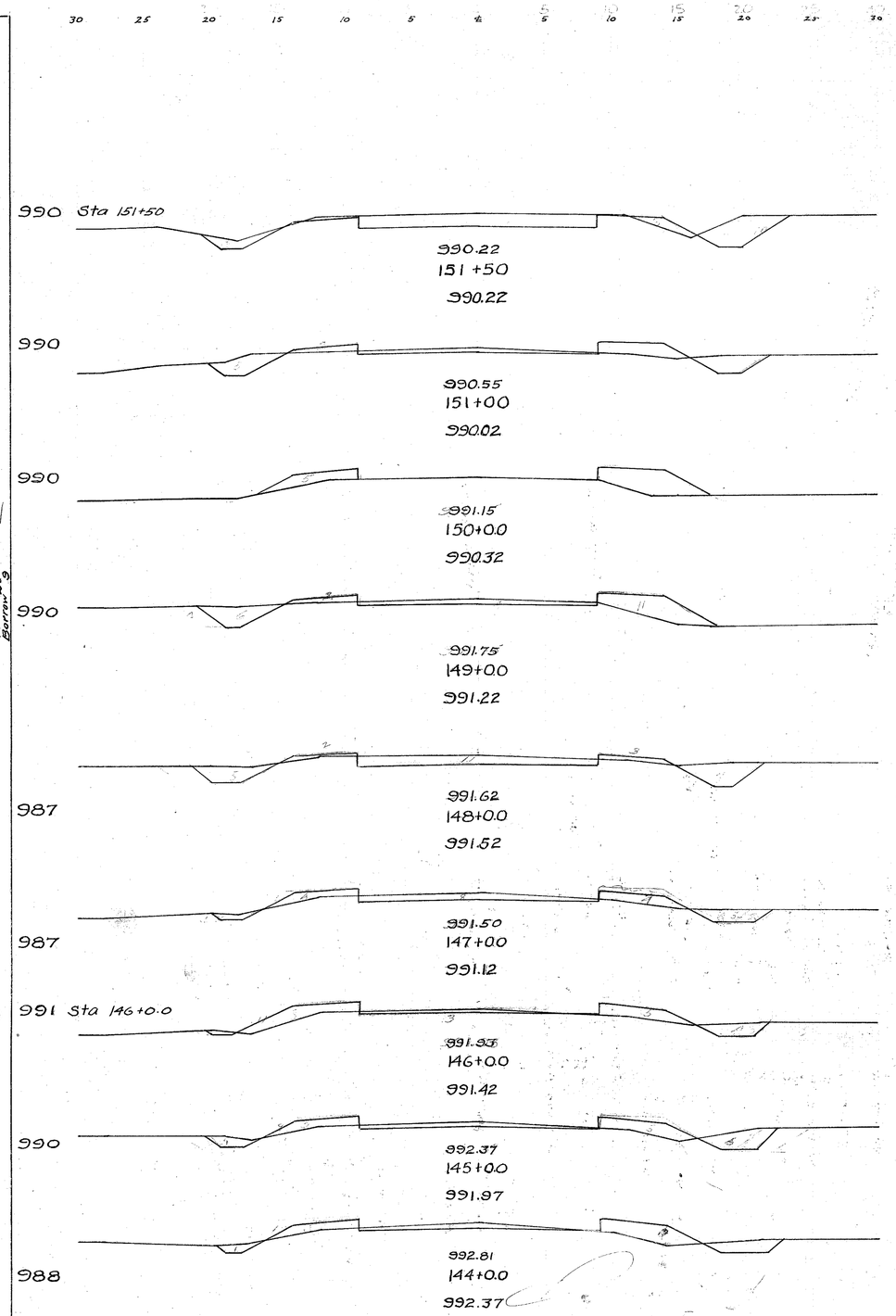


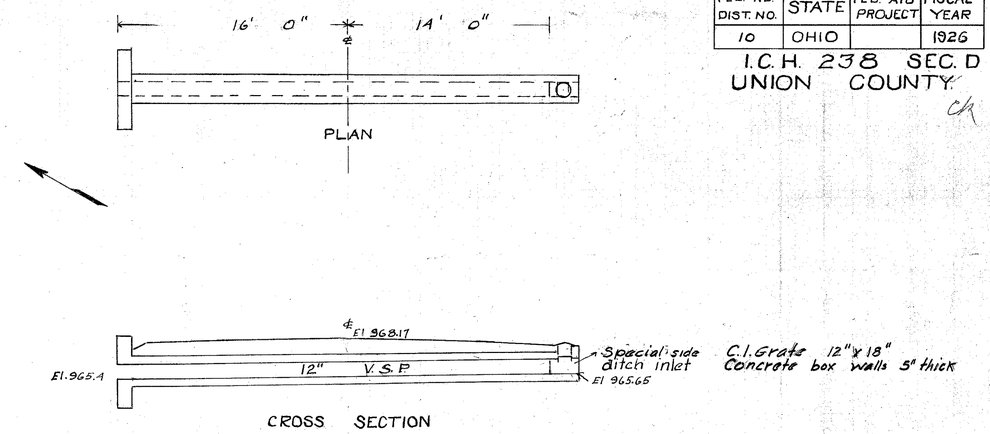
FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H. 238 SEC. D
UNION COUNTY

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill	
30	3			
		43	10	
16	8			
		30	44	
0	16			
		18	54	
10	13			
		61	33	
23	5			
		69	30	
14	11			
		39	44	
7	13			
		35	43	
12	10			
		41	41	
10	12			
		28	52	

EXC. 260 Cu.yds.
Emb 215 " "
+25% 269
Borrow 9





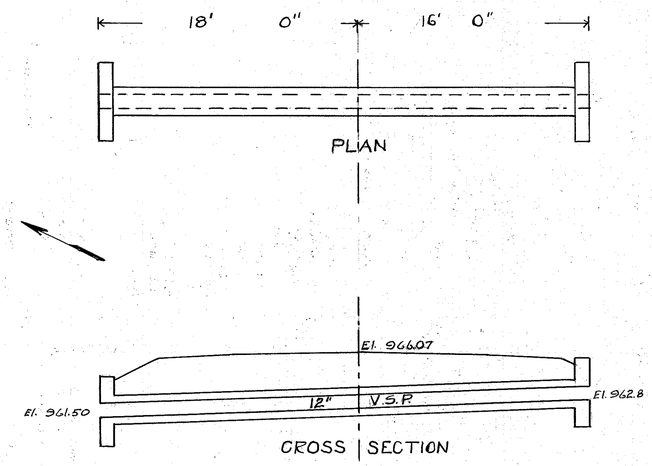
CULVERT DATA
Type St'd V.S.P. Culvert Dr #300
Size 12" x 30'
Work Reg. Build V.S.P. Culvert without Head wall on South
Build St'd 12" Side ditch inlet
Remove 28' of 8" Corr. pipe

Drawn by W.R. James
Date 4-2-26

Ext. Quantities

Exc.	10.0 Cu.yds.
Conc. 1-2-3½	1.0 Cu.yd.
Conc. 1-3-5	3.1 Cu.yds.
Reinf. Steel	33 lbs.
12" V.S.P.	30 lin. ft.
12" Side ditch Inlet	1

Sta. 0+40



CULVERT DATA
Type St'd. V.S.P. Culvert Dr #300
Size 12" x 34'
Work Reg Build V.S.P. Culvert

Drawn by W.R. James
Date 4-2-26

Est. Quantities

Exc.	17.0 Cu.yds.
Conc. 1-2-3½	2.0 Cu.yds.
Conc 1-3-5	3.6 Cu.yds.
Reinf. Steel	65 lbs
12" V.S.P.	34 lin. ft.

Sta. 5+0.0

FED. RD. DIST NO.	STATE	FED AID PROJECT	FISCAL YEAR
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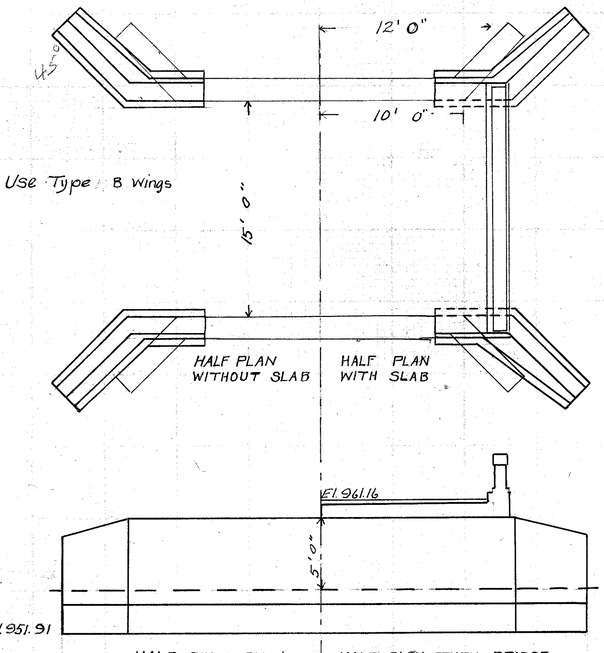
17
20

I.C.H 23 & SEC. D
UNION COUNTY



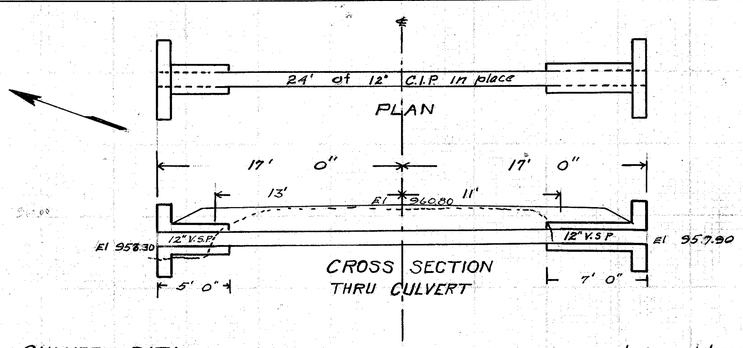
CULVERT DATA
Type Std Slab Bridge Dr # 302
Size Span 15' Rdy 24' H = 5' 0"
Work Reg Remove superstructure and wings
Extend walls and build wings
and Slab Top

Drawn by W R James
Date 4-7-26

Est. Quantities

Exc.	33.0 Cu.yds.
Conc. 1-2-3½	16.8 Cu.yds
Conc. 1-2½-4	12.9 Cu.yds
Conc. 1-3-5	7.5 Cu.yds
Reinf Steel	2021 lbs.
Type '6' Rail	34 lin. ft.
Wearing Surf. incl. in Pavement	44.9 Sq. yds

Sta 25+20



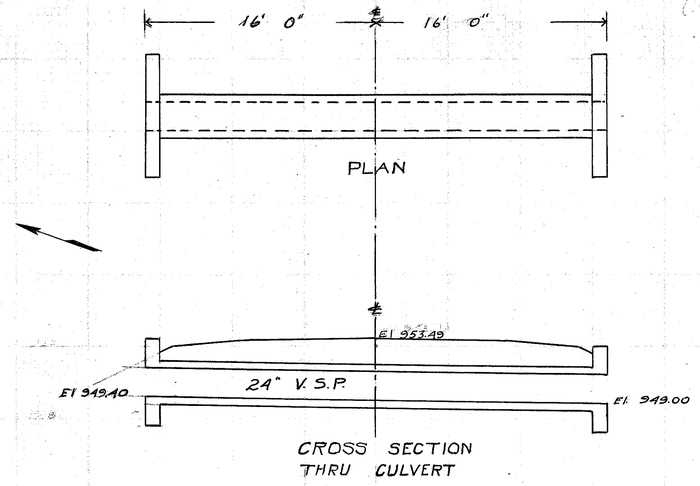
CULVERT DATA
Type Std V.S.P. Culvert Dr. 300
Size 12" x 34'
Work Reg. Extend present 12" C.I.P. 4' Left and 6' Right with 12" Std. V.S.P. Culv.

Drawn by W. R. James
Date 3-30-26

Est. Quantities

Exc.	6 Cu.yds
Conc. 1-2-3½	2.0 Cu.yds
Conc. 1-3-5	1.1 Cu.yds
Reinf steel	65 lbs.
12" V.S.P.	10 lin.ft.

Sta. 32 + 93



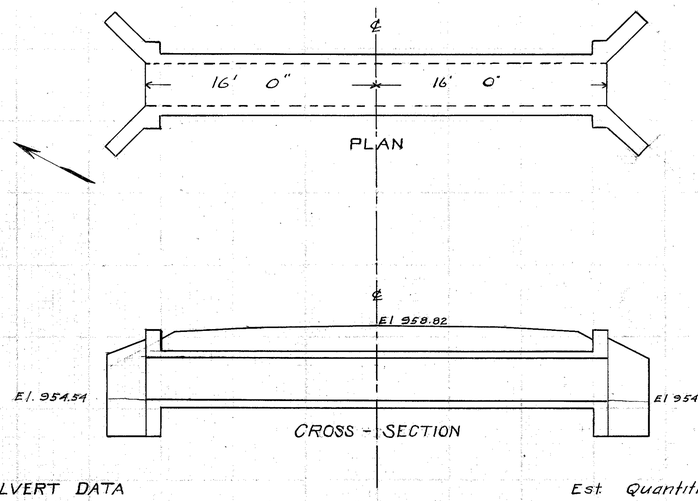
CULVERT DATA
Type Std. V.S.P. Culvert Dr. 300
Size 24" x 32'
Work reg. Build V.S.P. Culv - Remove 2'x3'x28' stone box

Drawn by W. R. James
Date 3-30-26

Est. Quantities

Exc.	12 Cuyds.
Conc. 1-2-3½	3.5 Cuyds.
Conc. 1-3-5	6.2 Cuyds.
Reinf Steel	105 lbs.
24" V.S.P.	32 lin. ft.

Sta 76 + 72



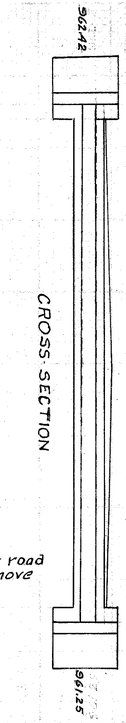
CULVERT DATA
Type Std Box Culvert Dr. 301
Size 3'x3' x 32'
Work Reg. Build 3 x 3 x 32' Culvert
Remove 30"-2-6" pieces and stone box

Drawn by W. R. James
Date 3-31-26

Est. Quantities

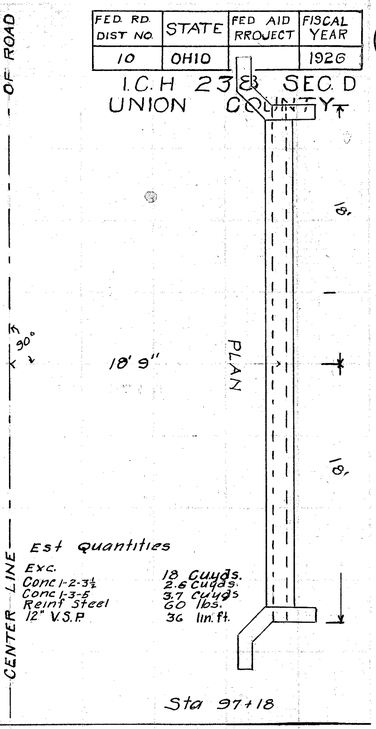
Exc.	28 Cu.yds.
Conc 1-2-3½	15.1 Cuyds
Reinf. Steel	721 lbs.

Sta. 95+10



CULVERT DATA
Type Std side road V.S.P. Culvert Dr #300
Size 12" x 36'
Work reg. Build side road V.S.P. culvert Remove 10" Corr. pipe

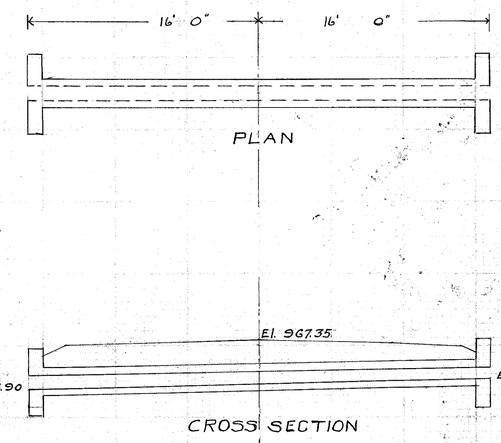
Drawn by W. R. James
Date 3-31-26



Est Quantities

Exc.	18 Cuyds.
Conc 1-2-3½	2.6 Cuyds.
Conc 1-3-5	37 Cuyds
Reinf Steel	60 lbs.
12" V.S.P.	36 lin. ft.

Sta 97+18



CULVERT DATA
Type Std. V.S.P. Culvert Dr #300
Size 12" x 32'
Work reg. Build V.S.P Culvert
Remove 20' of V.S.P. and relay.
Add 12' of 12" V.S.P.

Drawn by W.R. James
Date 3-31-26

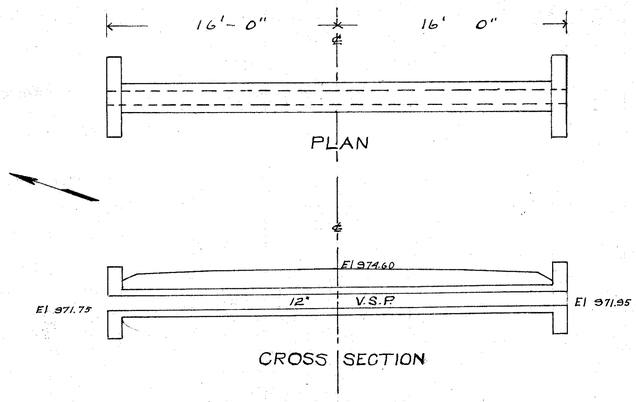
Est. Quantities

Exc.	13 Cu.yds.
Conc. 1-2-3½	2 Cu.yds
Conc. 1-3-5	3.2 Cu.yds
Reinf steel	65 lbs.
12" V.S.P. New	12 lin.ft.
12" V.S.P. relay	20 lin.ft.

Sta 100+18

FED. RD. DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H 238 SEC. D
UNION COUNTY



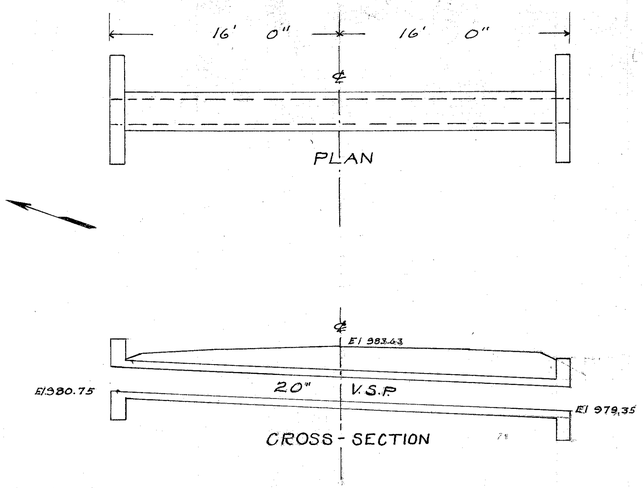
CULVERT DATA
Type Std V.S.P Culvert Dr # 300
Size 12" x 32'
Work Reg. Build V.S.P Culvert

Drawn by W. R. James
Date 4-1-26

Est. Quantities

Exc.	14.0 Cuyds
Conc. 1-2-3½	2.0 Cu.yds.
Conc 1-3-5	3.2 cu.yds.
Reinf Steel	65 lbs.
12" V.S.P	32 lin ft.

Sta. 104+70



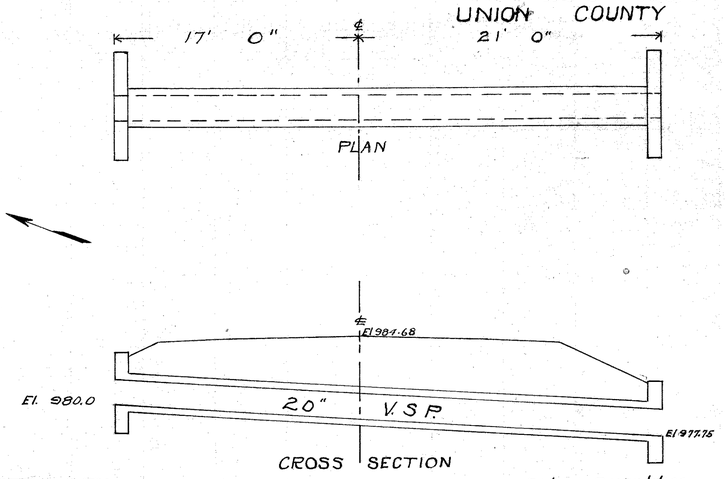
CULVERT DATA
Type Std. V.S.P Culvert Dr. # 300
Size 20" x 32'
Work Reg. Build V.S.P Culvert
Remove 1½' x 2' x 28' Stone Culvert

Drawn by W.R. James
Date 4-1-26

Est. Quantities

Exc.	22.0 cuyds.
Conc. 1-2-3½	3.0 cuyds.
Conc. 1-3-5	5.2 cuyds.
Reinf. Steel	85 lbs.
20" V.S.P.	32 lin ft.

Sta. 119+28



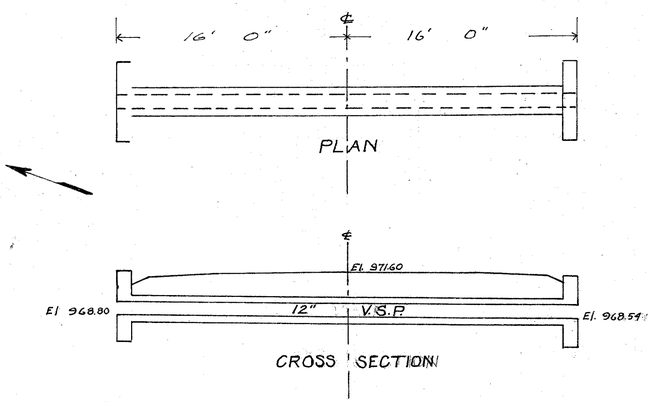
CULVERT DATA
Type Std V.S.P Culvert Dr. # 300
Size 20" x 38'
work Reg. Build V.S.P Culvert
Remove 28' of 15" V.S.P.

Drawn by W. R. James
Date 4-1-26

Est. Quantities

Exc.	30.0 Cu.yds.
Conc. 1-2-3½	3.0 Cu.yds.
Conc. 1-3-5	6.2 Cu.yds.
Reinf. Steel	85 lbs.
20" V.S.P	38 lin.ft.

Sta 126+70



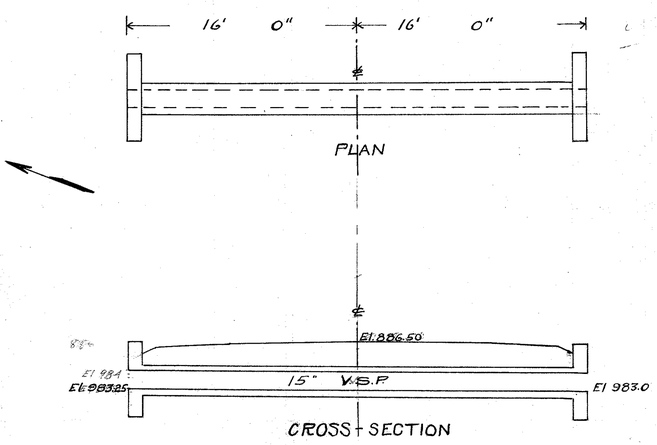
CULVERT DATA
Type Std V.S.P Culvert Dr # 300
Size 12" x 32'
Work Reg. Build V.S.P Culvert

Drawn by W. R. James
Date 4-1-26

Est. Quantities

Exc.	14.0 Cuyds
Conc 1-2-3½	2.0 Cuyds.
Conc. 1-3-5	3.2 Cuyds.
Reinf Steel	65 lbs.
12" V.S.P	32 lin.ft.

Sta. 110 + 06



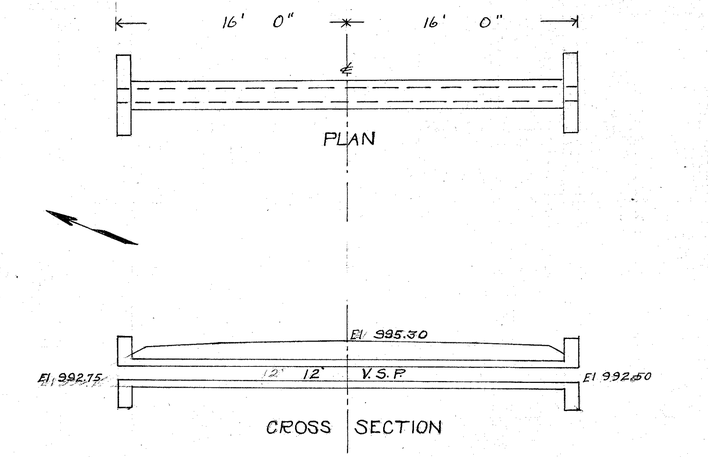
CULVERT DATA
Type Std. V.S.P Culvert Dr # 300
Size 15" x 32'
Work Reg. Build V.S.P Culvert
Remove 28' of 15" Corr. pipe

Drawn by W. R. James
Date 4-1-26

Est. Quantities

Exc.	16.0 Cuyds.
Conc. 1-2-3½	2.3 Cuyds.
Conc. 1-3-5	3.3 cuyds.
Rein. Steel	70 lbs.
15" V.S.P	32 lin.ft.

Sta. 122+48



CULVERT DATA
Type Std. V.S.P Culvert Dr # 300
Size 12" x 32'
Work Reg. Build V.S.P Culvert
Remove 24' of 15" V.S.P.

Drawn by W. R. James
Date 4-2-26

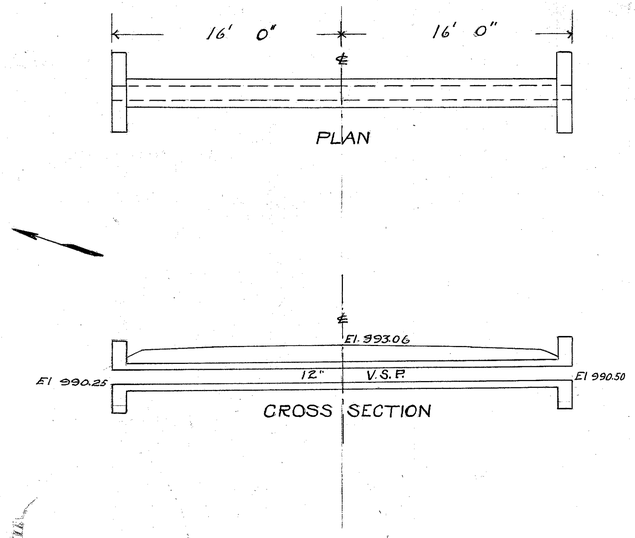
Est. Quantities

Exc.	12.0 Cuyds
Conc. 1-2-3½	2.0 Cuyds
Conc. 1-3-5	3.2 Cuyds
Reinf. Steel	65 lbs.
12" V.S.P	32 lin.ft.

Sta 134+80

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H. 238 SEC. D
UNION COUNTY



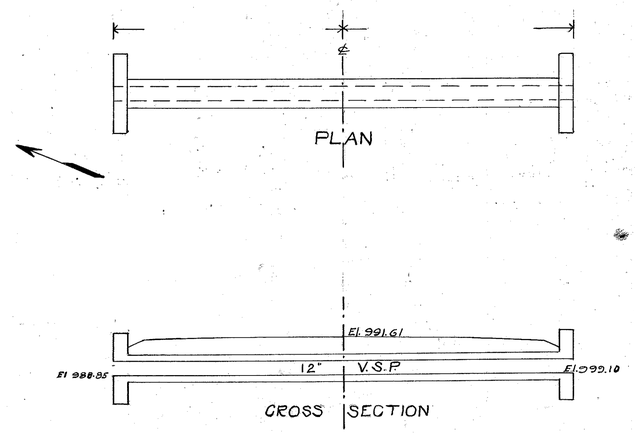
CULVERT DATA
Type Std. V.S.P. Culvert Dr "300
Size 12" x 32'
Work Req. Build V.S.P. Culvert

Drawn by W.R.James
Date 4-2-'26

Est. Quantities

Exc.	12.0 Cu.yds.
Conc. 1-2-3½	2.0 Cuyds.
Conc 1-3-5	3.2 Cuyds.
Reinf. Steel	65 lbs.
12" V.S.P.	32 lin.ft.

Sta. 143+43



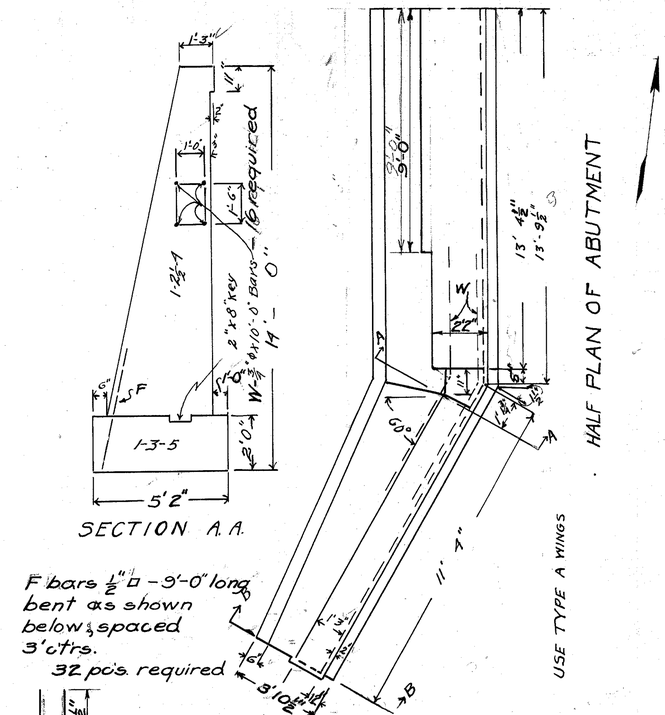
CULVERT DATA
Type Std V.S.P Culvert Dr. "300
Size 12" x 32'
Work Reg. Build V.S.P. Culvert

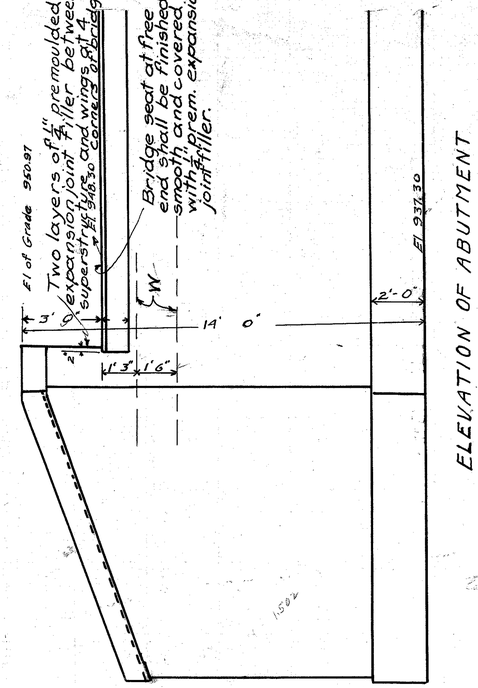
Drawn by W.R. James
Date 4-2-'26

Est. Quantities

Exc.	12.0 Cuyds.
Conc. 1-2-3½	2.0 Cuyds.
Conc. 1-3-5	3.2 Cuyds.
Reinf Steel	65 lbs.
12" V.S.P.	32 lin.ft.

Sta. 146+75





Estimated Quantities

Substructure

Exc.	250.0 Cuyds.
Channel change Exc.	50.0 Cuyds
Conc. 1-2½-4	85.0 Cu.yds.
Conc. 1-3-5	35.3 Cu.yds.
Reinf. Steel	485 lbs.

Superstructure

Conc. 1-2-3½	41.5 Cuyds.
Reinf. steel	7830 lbs.
Type "D" Railing	67 lin.ft.
*Wearing Surface	88.90 Sq.yds.

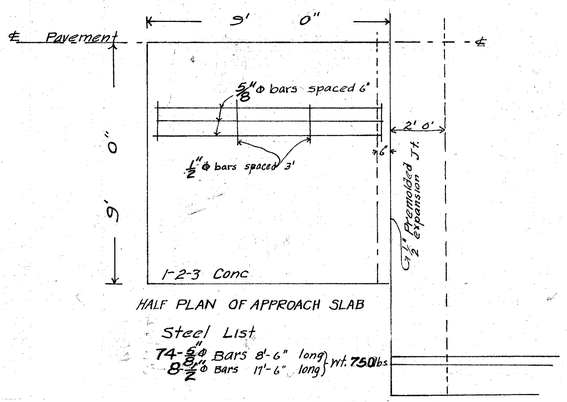
2 Approach Slabs.

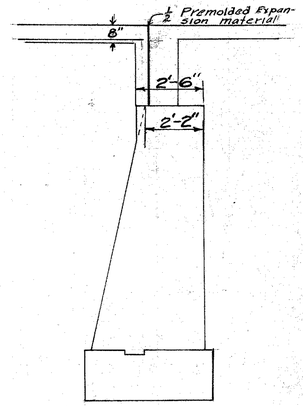
Conc. 1-2-3	9 cuyds
Reinf. Steel	750 lbs.
*Wearing Surface	36.0 Sq.yds

*Wearing Surface is included in pavement estimate.

Note: Premolded joint filler included with concrete for payment.
White Portland Cement to be used in Type D railing

For Superstructure See Standard Plan B-30-24





Note Clean Channel North of Bridge for about 75' and East side of stream

SUBSTRUCTURE
FOR
STANDARD CONCRETE BEAM BRIDGE OVER DUNS RUN
SPAN 30' ROADWAY 24 FT.

Approved
J.R. Burkey 4-28-26
Chief Engineer of Bridges

Sta. 65+36

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1926

I.C.H. 238 SEC. D
UNION COUNTY

20
20

SUMMARY OF QUANTITIES

NO	STATION	TYPE	SIZE	LENGTH	EXCAVATION CU. YDS.	CONCRETE 1-2-3½ CU. YDS.	CONCRETE 1-2½-4 CU. YDS.	CONCRETE 1-3-5 CU. YDS.	REINF. STEEL LBS.	VITRIFIED PIPE SEWER NEW 12" LIN. FT.	VITRIFIED PIPE SEWER NEW 15" LIN. FT.	VITRIFIED PIPE SEWER NEW 20" LIN. FT.	VITRIFIED PIPE SEWER NEW 24" LIN. FT.	V.S.P. RELAY LIN. FT.	TYPE "G" CON. RAIL LIN. FT.	TYPE "D" CON. RAIL LIN. FT.	*ESTIMATED PAVEMENT WEARING SURFACE SQ. YDS.	
					STRUCTURES 20' AND UNDER													
1	0+40	V. S. P.	12"	30'	10.0	1.0		3.1	33	30'								Build St'd. 12"X30' V. S. P. Culvert Except H.W. on south. See Plan
2	5+0.0	V. S. P.	12"	34'	17.0	2.0		3.6	65	34'								Build St'd 12"x34' V. S. P. Culvert
3	25+20	Conc. Slab Bridge	15' span	24' Rd'y.	33.0	16.8	12.9	7.5	2021						34		44.9	Extend Walls - Build Wings and std Slab Top Remove present superstructure and Wings
4	32+93	V. S. P.	12"	34'	6.0	2.0		1.1	65	10								Extend C.I.P. with St'd. V.S.P. Culvert 6' Right & 4' Left
6	76+72	V. S. P.	24"	32'	12.0	3.5		6.2	105				32'					Build St'd 24"x32' V.S.P. Culvert Remove stone box Culvert
7	95+10	Conc. Box Culv.	3'x3'	32'	28.0	15.1			721									Build St'd 3'x3'x32' conc. box Remove C.I.P. and stone box Culvert
8	97+18	V.S.P. Side Rd	12"	36	18.0	2.6		3.7	60	36								Build Std. 12"x36' V.S.P. side road culvert Remove Corr. pipe
9	100+18	V. S. P.	12"	32'	13.0	2.0		3.2	65	12				20				Build Std. 12"x32' V.S.P. Culv. Relay 20' of V.S.P. now in place
10	104+70	V. S. P.	12"	32'	14.0	2.0		3.2	65	32								Build St'd. 12"x32' V.S.P. Culv.
11	110+06	V. S. P.	12"	32'	14.0	2.0		3.2	65	32								Build St'd 12"x32' V.S.P. Culv.
12	119+28	V.S. P.	20"	32	22.0	3.0		5.2	85			32						Build. St'd. 20"x32' V.S.P. Culv. Remove 1½'x2' stone Culv.
13	122+48	V. S. P.	15"	32'	16.0	2.3		3.9	70		32							Build St'd 15"x32' V.S.P Culv. Remove 28' of 15" Corr. pipe
14	126+70	V.S.P.	20"	38'	30.0	3.0		6.2	85			38						Build Std. 20'x38' V.S.P. Culv. Remove 28' of 15" V.S.P.
15	134+80	V.S.P.	12"	32'	12.0	2.0		3.2	65	32								Build Std. 12"x32' V.S.P. Culv. Remove 24' of 15" V.S.P.
16	143+43	V.S.P.	12"	32'	12.0	2.0		3.2	65	32								Build Std 12"x32' V.S.P. Culv.
17	146+75	V.S.P.	12"	32'	12.0	2.0		3.2	65	32								Build Std 12"x32' V.S.P. Culv.
		TOTAL			269	63.3	12.9	59.7	3700	282	32	70	32	20	34		44.9*	
					STRUCTURES OVER 20'												Approach Slab cu.yds.	
5	65+36	Conc. Beam Bridge	30' span	24' Rd'y	300.0 50 Ch. Change	41.5	85.0	35.3	9065							67	125.4*	9 Build Std. Beam Bridge Remove old Bridge
		TOTAL			300.0 50 Ch. Change	41.5	85.0	35.3	9065							67	125.4*	9

SUMMARY OF DRAIN TILE - PRIVATE - DRIVES - ETC.

FROM STATION	TO STATION	DRAIN TILE 8" LIN. FT.	DRAIN TILE 10" LIN. FT.	SIDE OF ROAD	CORRUGATED 8" PIPE LIN. FT.	CORRUGATED 10" LIN. FT.	ST'D SIDE DITCH INLETS 6"	8"	12"	SPECIAL INLET
0+40				Right						1
2+20				Left	16					
2+28	3+0.0	72		Left						
10+80				Left	16					
16+0.0				Right				1		
16+0.0		325		Right						
18+50	19+0.0	50		Right						
19+10				Right	20					
19+20	20+00	80		Right						
23+60				Right	16					
23+68	24+38	70		Right						
26+20				Right	16					
27+25				Right	20					
28+40				Right	16					
35+58				Right	16					
35+66	36+30	64		Right						
38+50				Left	16					
45+85				Right		16				
53+50				Right			1			
53+50				Left			1			
53+95				Right	16					
54+03	55+01	98		Right						
TOTAL		759			168	16	2	1		1

SUMMARY OF DRAIN TILE - PRIVATE DRIVES - ETC. CON'D.

FROM STATION	TO STATION	DRAIN TILE 8" LIN. FT.	DRAIN TILE 10" LIN. FT.	SIDE OF ROAD	CORRUGATED 8" PIPE LIN. FT.	CORRUGATED 10" LIN. FT.	ST'D SIDE DITCH INLETS 6"	8"	12"	15"	SPECIAL INLETS
Brat For.		759			168	16	2	1			1
58+60				Left	16						
58+68	59+70	102		Left							
60+0.0				Right		16					
63+50				Left		18					
69+68				Left	16						
69+76	70+50	74		Left							
69+75				Right	16						
72+20				Right	16						
73+0.0				Left	16						
78+13				Left					1		
83+08				Left	16						
83+16	84+50	134		Left							
84+50	85+70	120		Right							
85+80				Right	20						
87+50				Left	16						
95+10				Left						1	
97+33	98+19	86		Right							
105+75				Right	16						
106+12	106+40	28		Left							
106+50				Left	20						
106+60	107+30	70		Left							
TOTAL		1373			336	50	2	1	1	1	1

SUMMARY OF DRAIN TILE - PRIVATE DRIVES - ETC. CON'D

FROM STATION	TO STATION	DRAIN TILE 8" LIN. FT.	DRAIN TILE 10" LIN. FT.	SIDE OF ROAD	CORRUGATED 8" PIPE LIN. FT.	CORRUGATED 10" LIN. FT.	ST'D SIDE DITCH INLETS 6"	8"	12"	15"	SPECIAL INLETS
107+37				Left	16						
108+20				Right	16						
110+06				Left					1		
110+06				Right					1		
111+35				Left		16					
111+43	111+93		50	Left							
111+50				Right		20					
112+01				Left		16					
117+30	118+20	90'		Left							
118+30				Left	20						
123+60				Right	16						
125+50				Left	16						
125+58	126+58	100		Left							
130+50				Right	30						
130+65	131+65	100		Right							
132+40				Right	16						
142+60				Left		16					
145+75				Right		16					
146+75				Right				1			
146+75				Left				1			
146+75	147+45	70		Right							
148+0.0				Right	16						
148+0.0				Left	16						
151+0.0				Right		16					
TOTAL		1733	50		498	150	4	1	3	1	1

Excavation	7712.0	Cu.yds.
Borrow	349.0	Cu.yds.
Pavement (Top Course)	30,414.	Sq.yds.
Base Course	30,244	Sq.yds.

LOOSE STONE FOR ROAD APPROACHES

STA. 17+65	20 Cu.yds.
STA 97+18	20 Cu.yds
STA 149+0.0	10 Cu.yds.
TOTAL	50 Cu.yds

HEDGE FENCE TO BE REMOVED

STA. 28 TO 36	800 Lin. Ft.	North
STA 55 TO 78+50	2350 Lin. Ft.	South
STA 73 TO 83	1000 Lin. Ft.	North
STA 98+10 TO 108+12	1002 Lin. Ft	South
TOTAL	5152 Lin. Ft	

EXTRA PAVEMENT

STA. 9+82 Curve 81.3 Sq.yds.

STA. 25+20 Deduct for Pav. 17 lin. ft. Br.
STA. 65+36 Deduct for Pav. 52 lin. ft. Br.