

STATE OF OHIO DEPARTMENT OF HIGHWAYS W.P.A. STATE WIDE HIGHWAY PROJECTS STATE WIDE OFFICIAL PROJECT O.P. GALLIA COUNTY S.H. 776 SEC. NEW MILEAGE NET LENGTH OF PROJECT 2.385 MILES

GALLIA COUNTY
S.H. 776 Sec. New Mileage
HIGHWAY AUTHORIZATION No. 10-27-R
W.P.A. JOB NO. 27-106

1
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SUMMARY OF QUANTITIES			
ITEM	QUANTITY	UNIT	MATERIAL
E-1	12047.0	cu.yds.	Roadway Excavation
E-2	283.5	" "	Excavation for Structures
E-3	261.4	" "	Channel Excavation
E-9	10.0	Units	Removal of Trees & Stumps
S-1	34.5	cu.yds.	Concrete for Structures (Class 'C')
S-3	16.9	Sq.yds.	Type "B" Water proofing
S-4	5630.0	Lbs.	Reinforcing Steel
S-27	74.0	lin. ft.	36" Pipe for Roadway Culverts
S-27	70.0	" "	24" " " " " " "
S-27	94.0	" "	15" " " " " " "
S-27	188.0	" "	12" " " " " " "
I-1	20.0	" "	36" " " Driveways
I-1	20.0	" "	18" " " " " "
I-1	120.0	" "	12" " " " " "
I-5	1	unit	12"x45" E/I.
I-10	51.0	Sq.yds.	Stone Rip Rap
I-15	890.0	lin. ft.	Type T-T Guard Rail
T-110	1232.0	cu.yds.	Traffic Bound Materials for Pavement
	12,595.0	lin. ft.	Finishing Shoulders Slopes & Ditches
	7.0	Acres	Clearing
S27	46.0	lin. ft.	38"x66" Arch Pipe Culvert (Paved Invert)

LINE DATA EQUATIONS
 STA. 254+50 to 255+00 = 2.84 Long
 STA. 276+50 to 277+00 = 15.98 Long
 TOTAL EQUATION = 17.98 Long
 STA. 243+00 to STA. 368+77 = 12,577. Lin. Ft.
 12,577. + 17.98 = 12,594.97 Net Length of Project

CURVE DATA
 All curves to be Superelevated & Widened at the direction of the Engineer

STANDARD DRAWINGS
 Drawing No LCB -33
 Drawing No I-15 C-C

The right of way necessary for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that provision for maintenance and safety of traffic will be made as herein described.

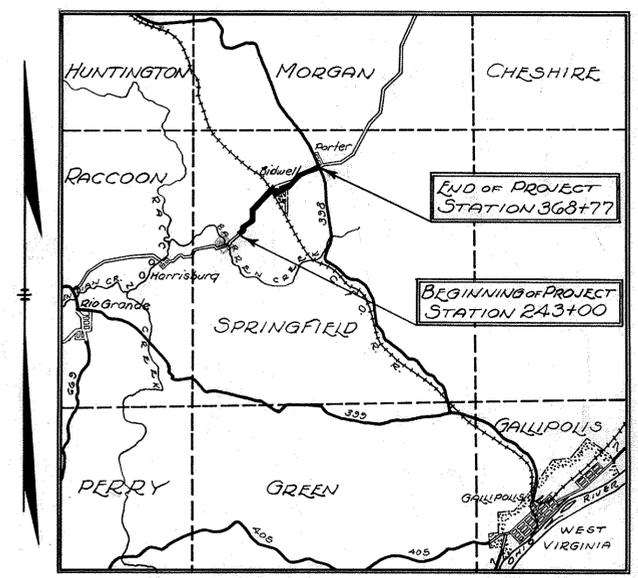
Flagmen will be used during construction operations and traffic will be maintained at all times.

Approved: Chas. A. Ferguson
 Date: 7/1/40 Resident Division Deputy Director

Approved: St. J. ...
 Date: 7/1/40 Chief Engineer, Bureau of Maintenance

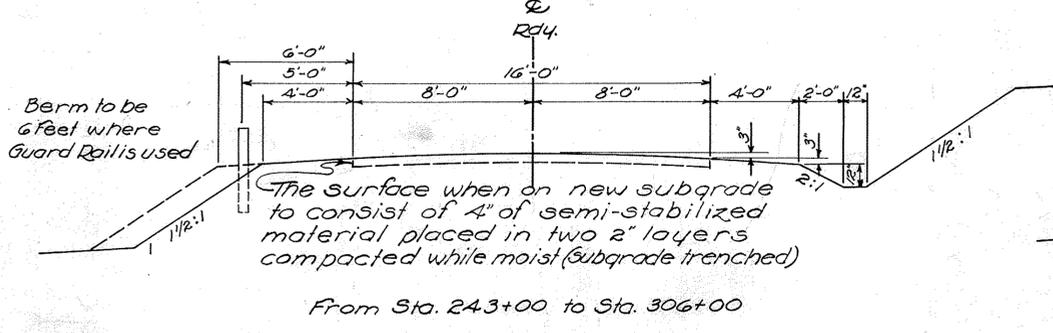
Approved: W. B. ...
 Date: 7/1/40 First Assistant Director & Chief Engineer

Approved: Robt. D. ...
 Date: 7/1/40 Director of Highways

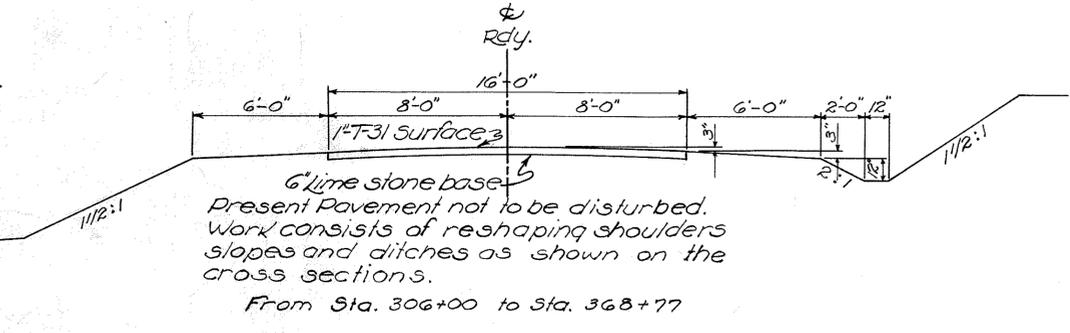


LOCATION MAP
 Scale of Miles

TYPICAL SECTION TYPE T-110 (MODIFIED)



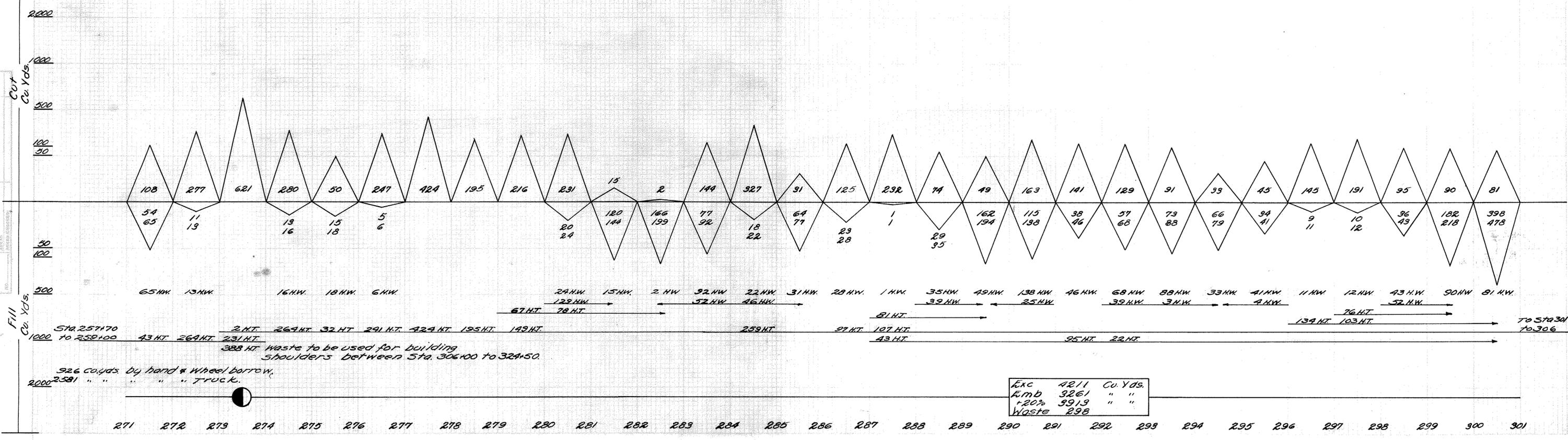
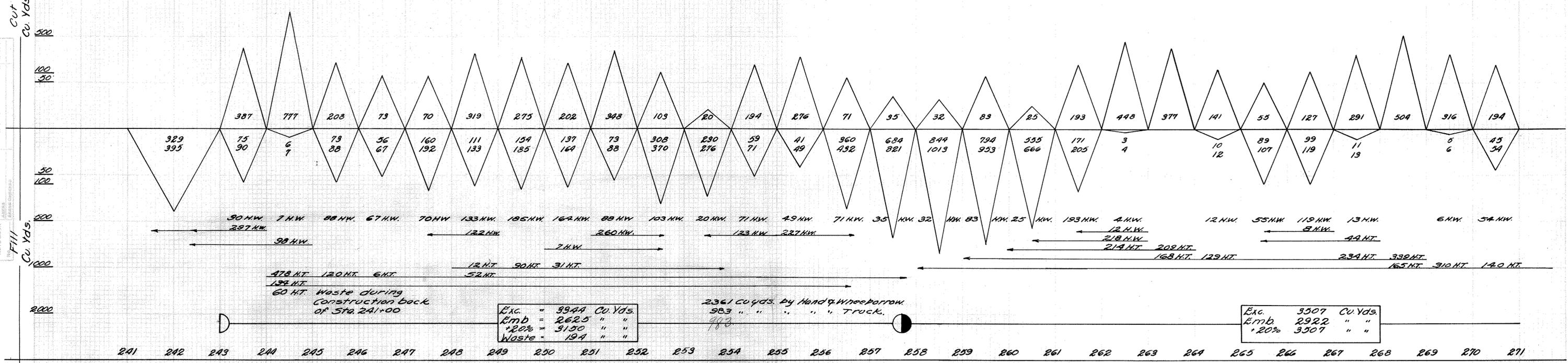
TYPICAL SECTION TYPE T-31



LEGEND
 HW. = Hand & Wheel borrow.
 HT. = Hand & Truck.

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR	A 27
10	OHIO		1940	

GALLIA COUNTY
 S.H. 776 SEC. N. MILEAGE



Curve #1
 $\Delta = 53^\circ - 49' L$
 $D = 11^\circ - 30'$
 $T = 252.87$
 $L = 467.91$
 $E = 60.5$

Curve #2
 $\Delta = 65^\circ - 01' R$
 $D = 25^\circ - 00'$
 $T = 146.05'$
 $L = 260.04'$
 $E = 42.58$

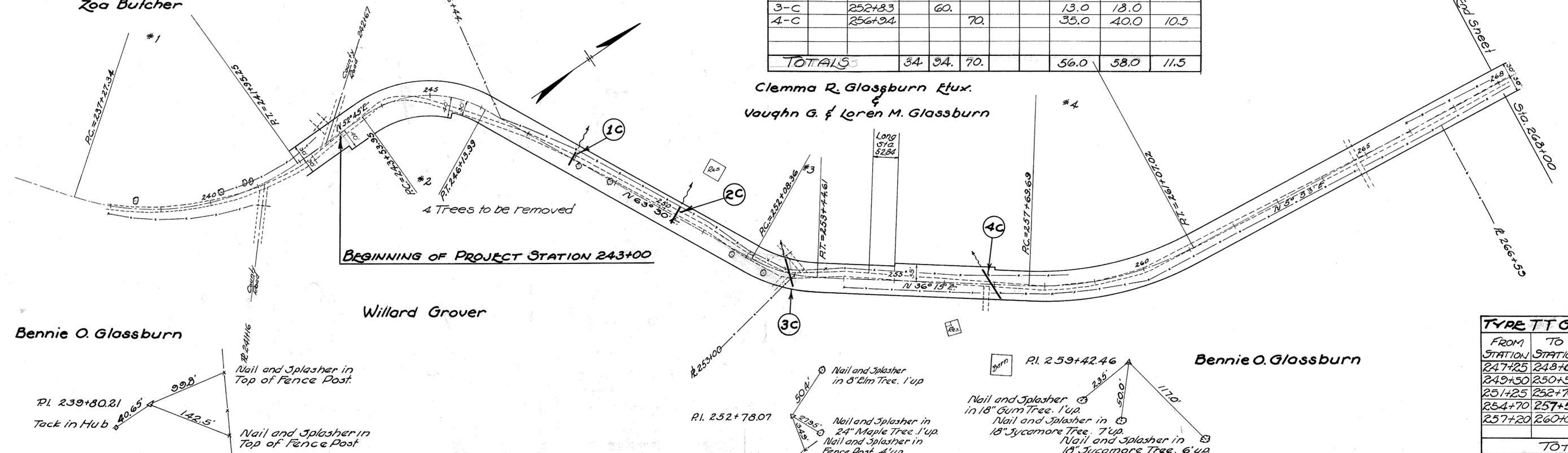
Curve #3
 $\Delta = 27^\circ - 15' L$
 $D = 20^\circ - 00'$
 $T = 69.61'$
 $L = 136.25'$
 $E = 8.35$

Curve #4
 $\Delta = 30^\circ - 22' L$
 $D = 9^\circ - 00'$
 $T = 172.77'$
 $L = 337.33'$
 $E = 23.03$

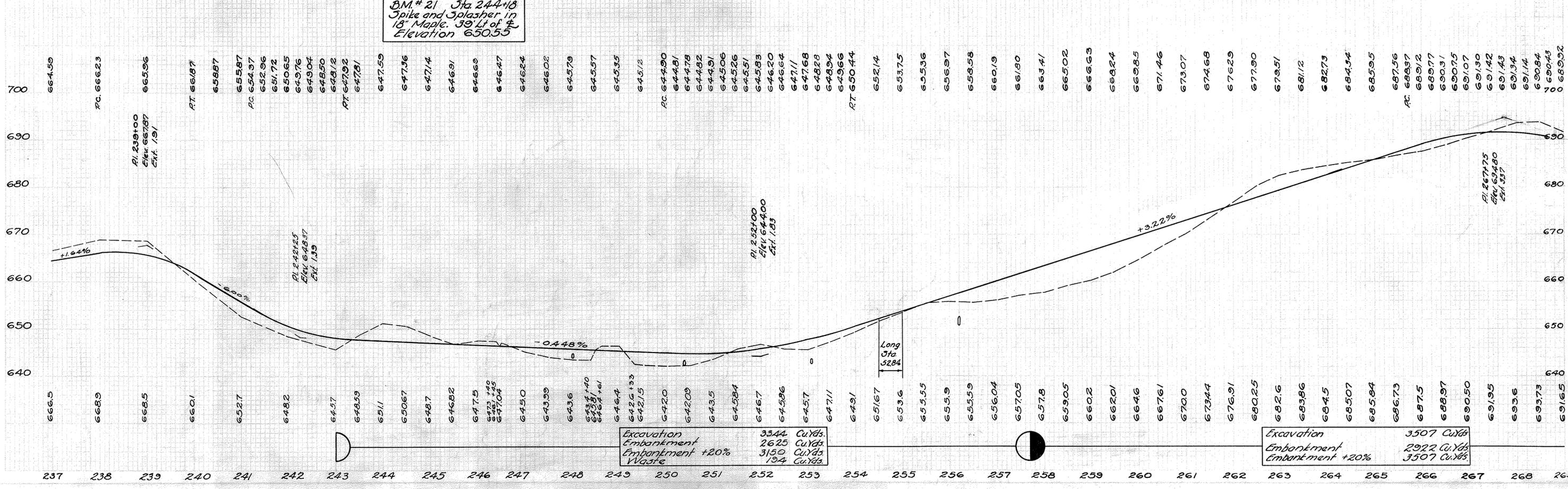
ROADWAY STRUCTURES								
STRUC. NO	SHEET NO	STATION	PIPE FOR ROADWAY CULVERTS			STRUC. Exc. Cu. Yds.	CHAN. Exc. Cu. Yds.	DIP RAD Sq. Yds.
			12" No. Ft.	15" No. Ft.	24" No. Ft.			
1-C		248+00	34.			3.0		1.0
2-C		250+36	34.			5.0		
3-C		252+83		60.		13.0	18.0	
4-C		256+94			70.	35.0	40.0	10.5
TOTALS			34.	60.	70.	56.0	58.0	11.5

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TYPE TT GUARD RAIL			
FROM STATION	TO STATION	SIDE	LN. FEET
247+25	248+05	Lt.	80.
249+50	250+50	Lt.	100.
251+25	252+75	Lt.	150.
254+70	257+50	Lt.	280
257+20	260+00	Rt.	280.
TOTAL			890

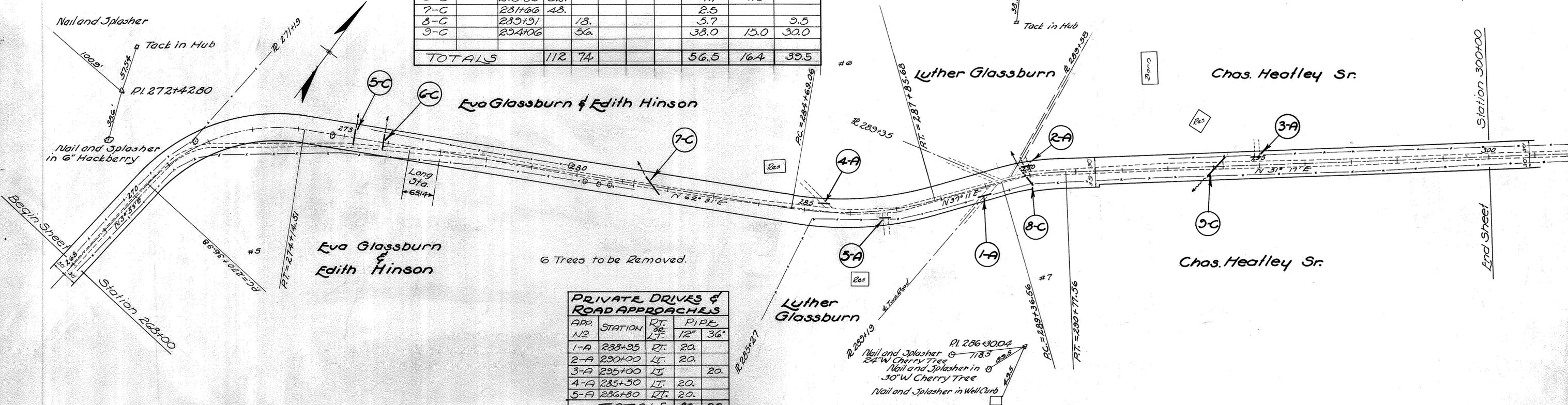


Curve # 5
 $\Delta = 56^{\circ}-38' R$
 $D = 15^{\circ}-00'$
 $T = 205.82'$
 $L = 377.53$
 $E = 51.92$

Curve # 6
 $\Delta = 25^{\circ}-20' L$
 $D = 8^{\circ}-00'$
 $T = 160.98'$
 $L = 316.62'$
 $E = 17.86'$

Curve # 7
 $\Delta = 14^{\circ}-06' E$
 $D = 10^{\circ}-00'$
 $T = 70.86'$
 $L = 141.0'$
 $E = 4.37'$

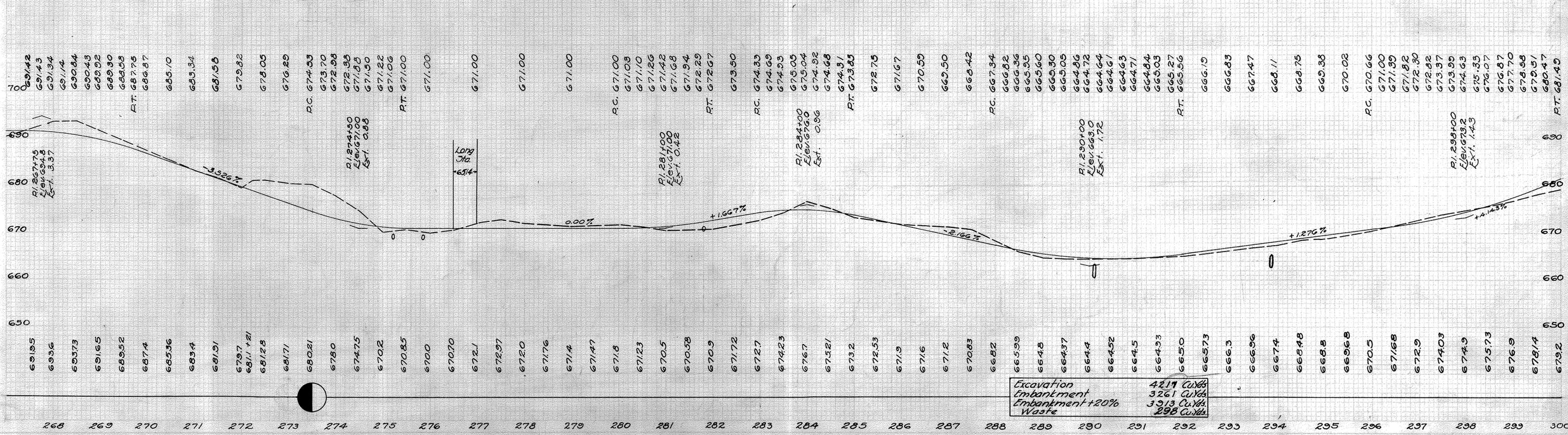
ROADWAY STRUCTURES							
STRUC. NO	SHEET NO	STATION	DIP FOR ROADWAY CULVERTS		STRUCTURE CHAN.		RIP
			12"	36"	Exc. Cu. Yds.	Exc. Cu. Yds.	
5-C		275+21	32.		5.6	0.4	
6-C		275+86	32.		4.7	1.0	
7-C		281+66	48.		2.5		
8-C		289+91		18.	5.7		3.5
9-C		294+06		56.	38.0		30.0
TOTALS			112	74	56.5	16.4	39.5



PRIVATE DRIVES & ROAD APPROACHES			
APP. NO	STATION	RT. or LT.	PIPE 12" 36"
1-A	288+95	RT.	20.
2-A	290+00	LT.	20.
3-A	295+00	LT.	20.
4-A	285+50	LT.	20.
5-A	286+80	RT.	20.
TOTALS			80. 20.

BM# 22 Sta. 272+40
 Spike and Splasher in
 36" Jaspas 75' Lt of E.
 Elevation 680.87

BM# 23 Sta. 290+30
 Spike and Splasher in
 24" Elm. 32' Lt of E.
 Elevation 665.92



Excavation 4217 Cu.Yds.
 Embankment 3261 Cu.Yds.
 Waste 3913 Cu.Yds.
 Total 298 Cu.Yds.

Curve #8
 $\Delta = 105^{\circ}31'R$
 $D = 103^{\circ}00'$
 $T = 69.97'$
 $L = 97.61'$
 $X = 34.61'$

Curve #9
 $\Delta = 89^{\circ}28'L$
 $D = 151^{\circ}00'$
 $T = 37.59'$
 $L = 59.24'$
 $X = 15.47'$

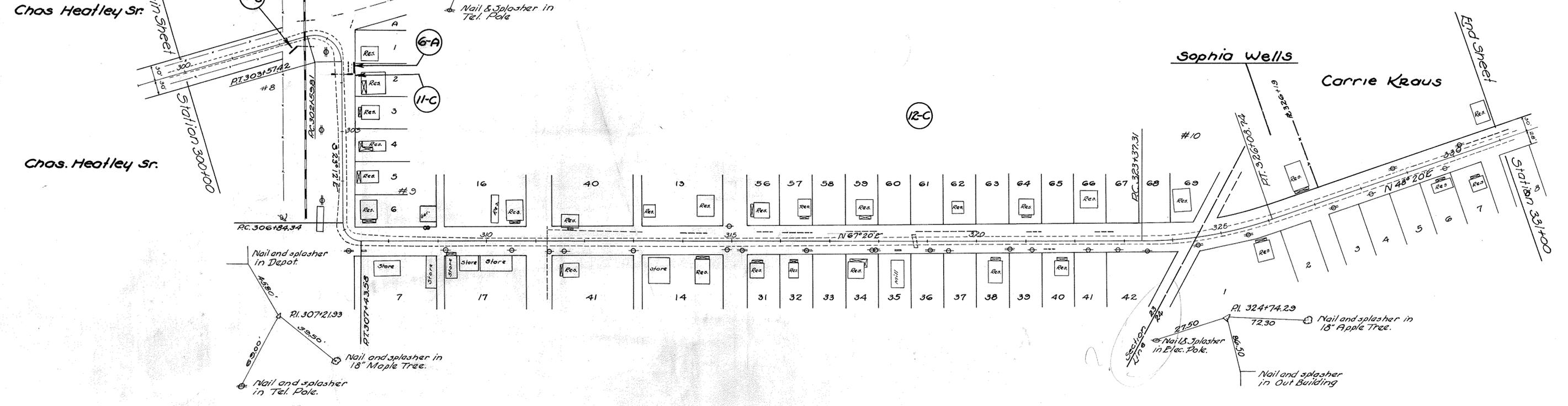
Curve #10
 $\Delta = 19^{\circ}00'L$
 $D = 7^{\circ}00'$
 $T = 136.98'$
 $L = 271.43'$
 $X = 11.39'$

ROADWAY STRUCTURES						PRIVATE DRIVES / ROAD APPROX.			
STRUC. NO.	STATION	PIPE FOR ROAD CURV'S		STRUC. CHAN.		APP. NO.	STATION	PIPE	
		12" 15'x11'	18" 18'x6'	Exc.	Exc.			RT. 12" LT.	PIPE 12" 18"
10-C	302+60.8	24.	1.	4.0		6-A	303+65	LT.	20.
11-C	303+83.0	18.		1.0	2.0				
12-C	318+75.0		46.	30.0	5.0				
TOTALS		42.	1.	46	35.0	7.0	TOTALS		20.

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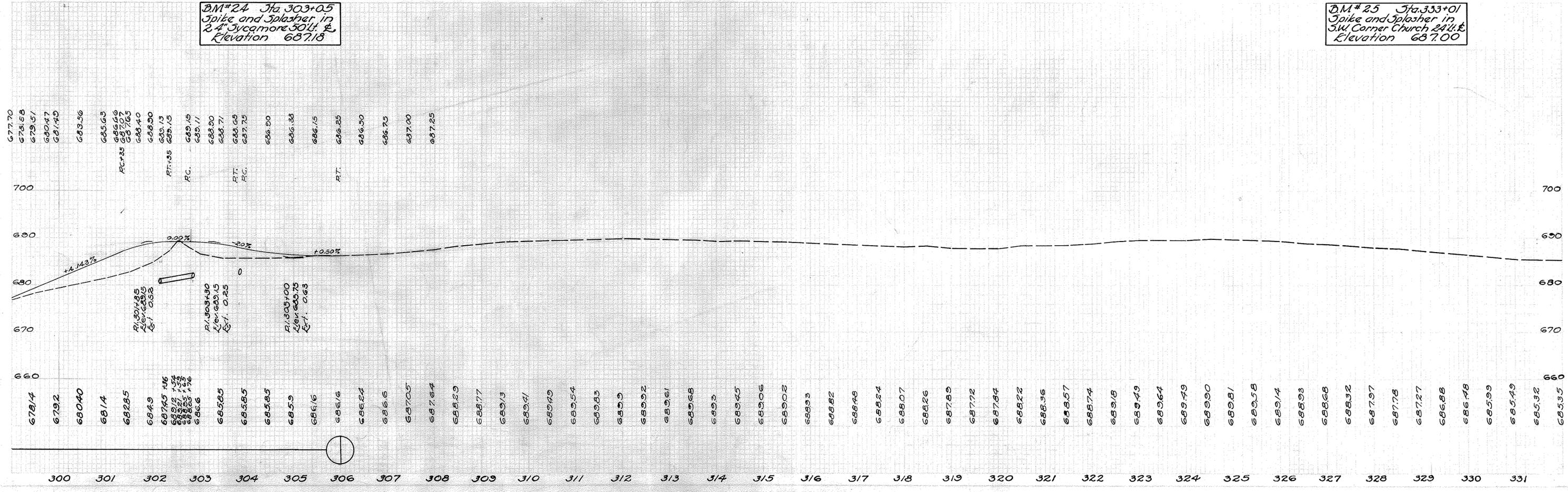
1940 27

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BM#24 Sta. 303+05
 Spike and Splasher in
 24" Sycamore 50ft. E.
 Elevation 687.18

BM#25 Sta. 333+01
 Spike and Splasher in
 SW Corner Church 24ft. E.
 Elevation 687.00



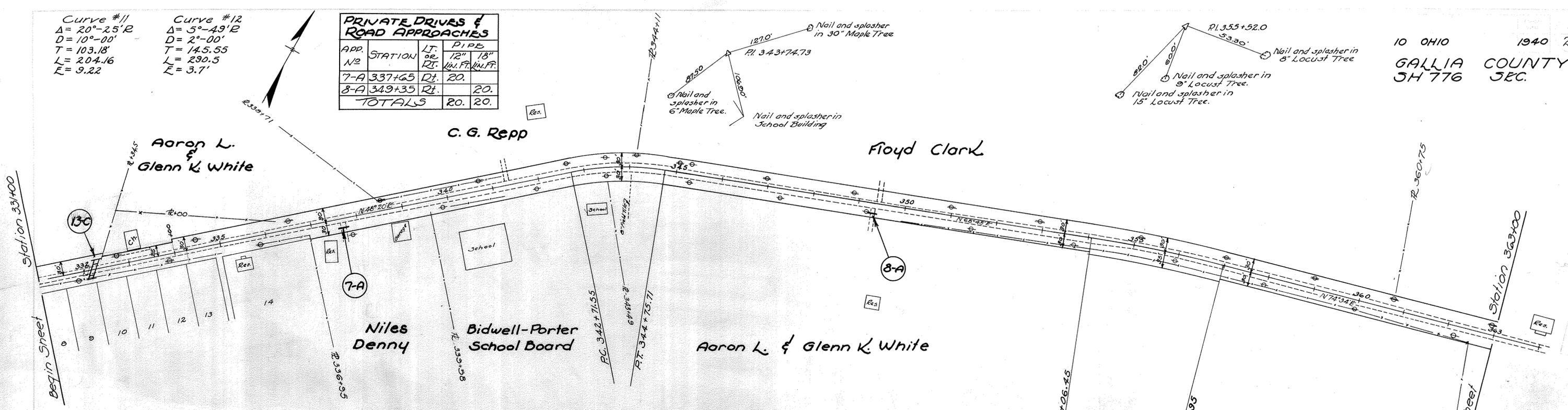
Curve #11
 $\Delta = 20^\circ - 25' R$
 $D = 10^\circ - 00'$
 $T = 103.18'$
 $L = 204.16'$
 $E = 9.22'$

Curve #12
 $\Delta = 5^\circ - 49' R$
 $D = 2^\circ - 00'$
 $T = 145.55'$
 $L = 290.5'$
 $E = 3.7'$

PRIVATE DRIVES & ROAD APPROACHES

APP. NO.	STATION	LT. OR RT.	PIPE	
			12" DI. IN. FT.	18" DI. IN. FT.
7-A	337+65	RT.	20.	
8-A	349+35	RT.	20.	
TOTALS			20.	20.

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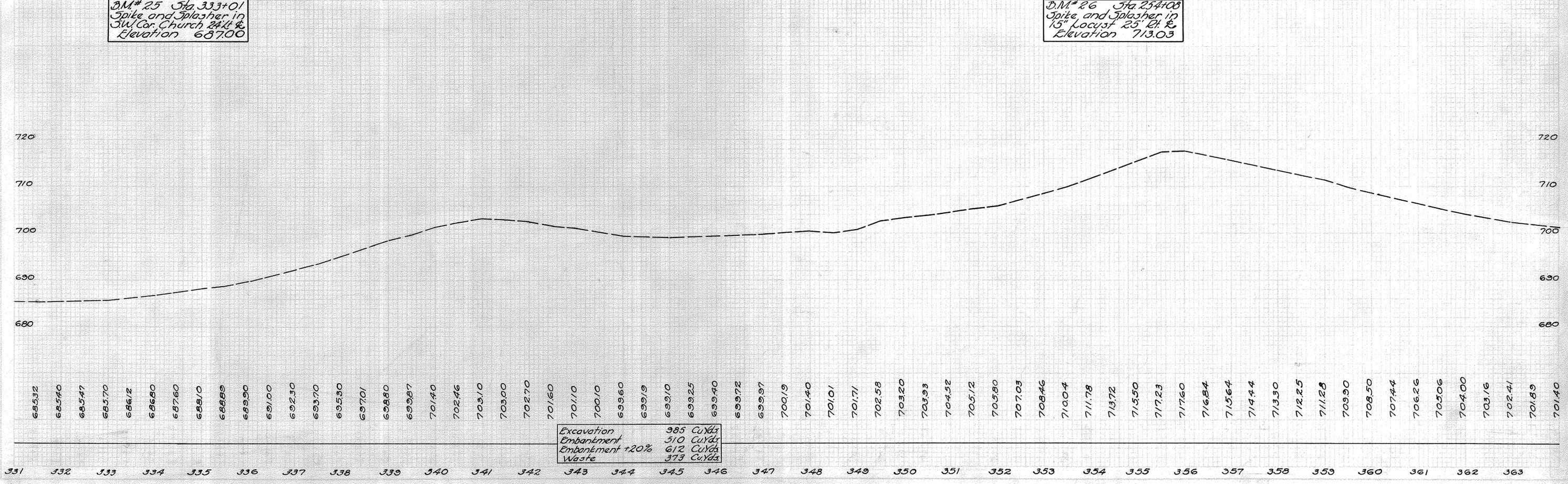


ROADWAY STRUCTURES

STRUC. NO.	SHEET NO.	STATION	REINF. STEEL LBS.	TYPE 'B' WATR. PRISM SQ. YDS.	CONCRETE CLASS 'C' CU. YDS.	STRUC. EXC. CU. YDS.	CHAN. EXC. CU. YDS.
13-C		332+27	5630.	16.9	34.5	138.	180.
TOTAL			5630.	16.9	34.5	138.	180.

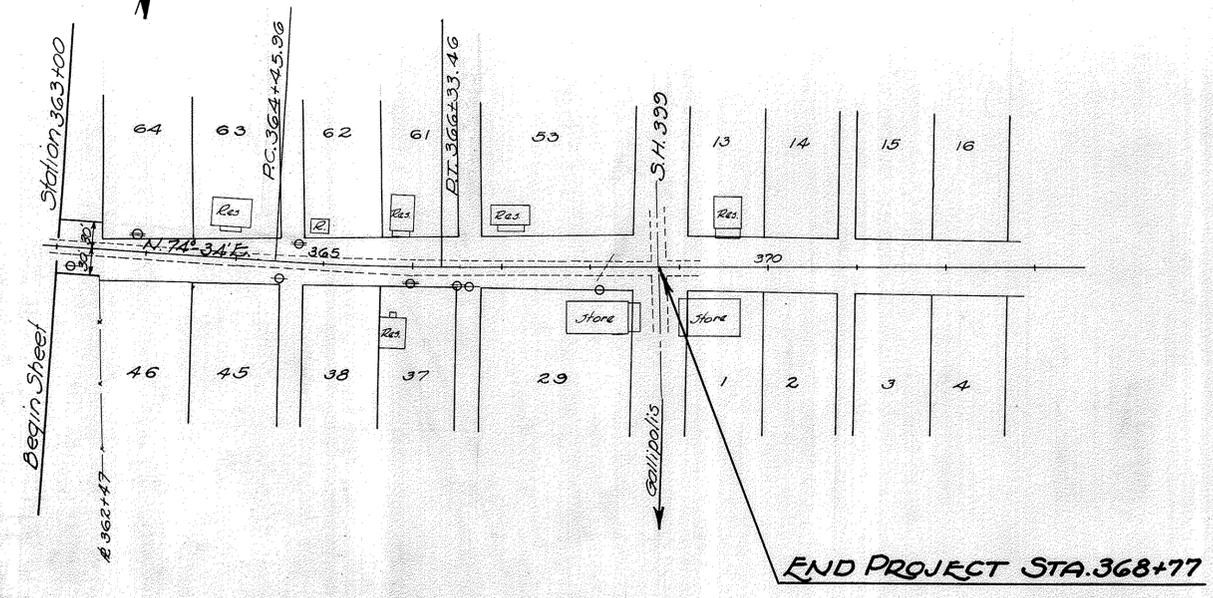
BM# 25 Sta. 333+01
 Spike and Splasher in SW Cor. Church Hill & Elevation 687.00

BM# 26 Sta. 254+08
 Spike and Splasher in 15" Locust 25' E. & Elevation 713.03

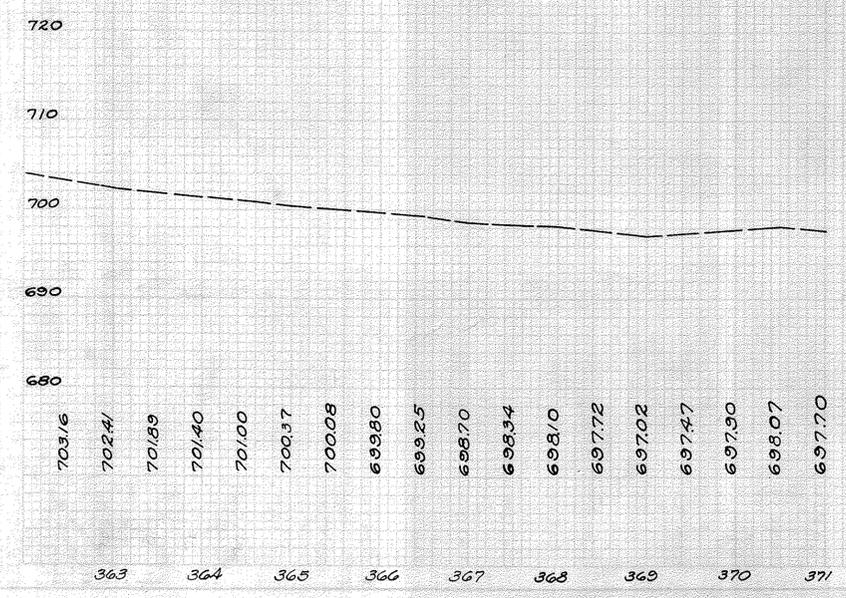


Excavation 385 Cu.Yds.
 Embankment 510 Cu.Yds.
 Embankment +20% 612 Cu.Yds.
 Waste 373 Cu.Yds.

Curve # 13
 $\Delta = 3^{\circ}-45' L$
 $D = 2^{\circ}-00'$
 $T = 93.77'$
 $L = 187.50'$
 $E = 1.52'$



DIM # 27 Sta 363+00
 NW Cor. Conc. Porch
 Floor Cottralls Store
 35' R & Elev. 699.65

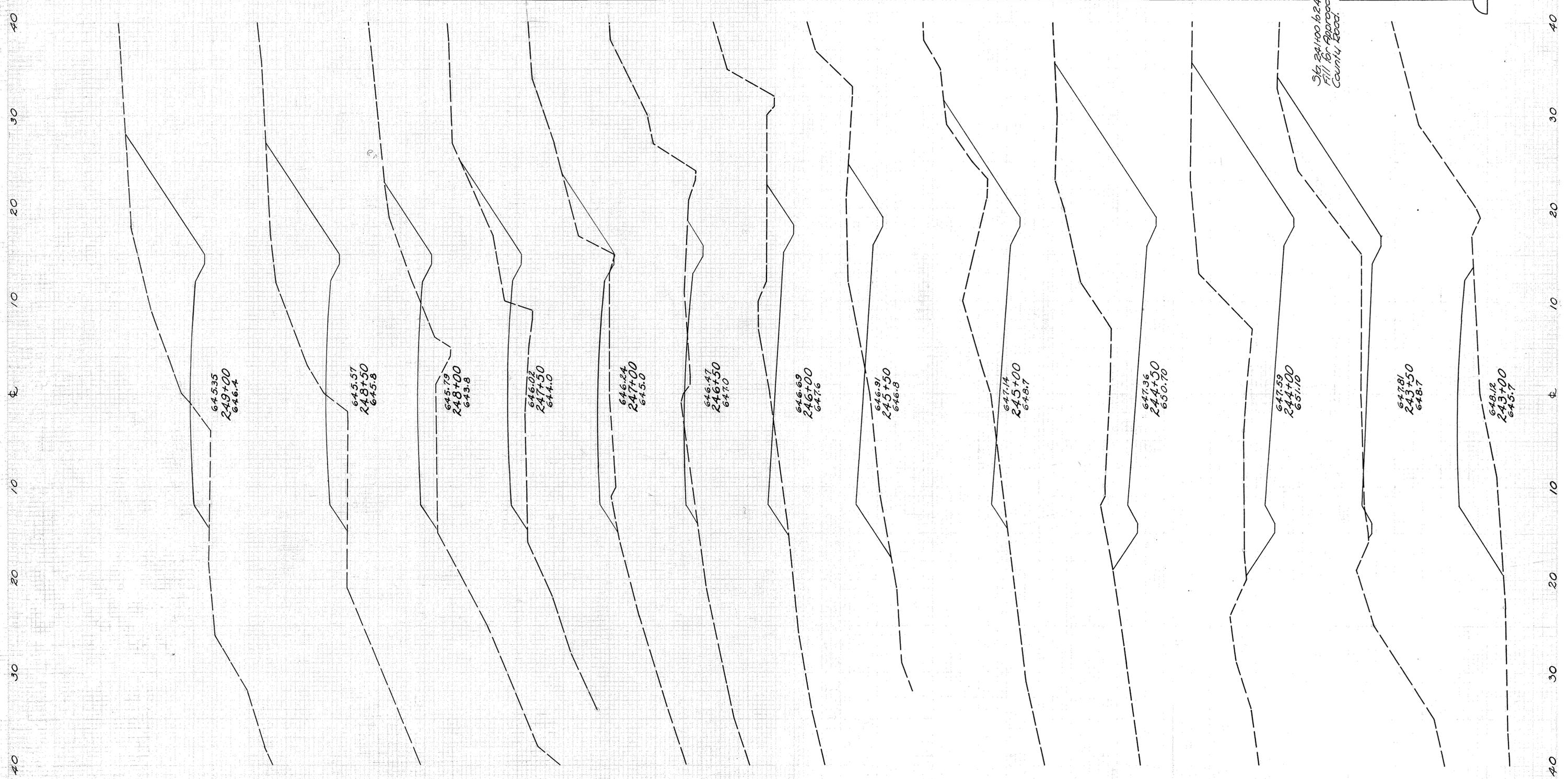


End Area	Cu. Yds. Cut	Cu. Yds. Fill
	178	57
112	21	
		201
		45
103	27	
		118
		66
23	44	
		40
		85
21	47	
		30
		75
12	34	
		22
		38
12	7	
		51
		18
43	12	
		82
		33
46	30	
		126
		34
90	6	
		309
		6
244	0	
		4143
		0
262	0	
		315
		0
178	0	
		72
		75
0	81	
		329

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

GALLIA COUNTY
 SH. 776 SEC. NEW MILEAGE

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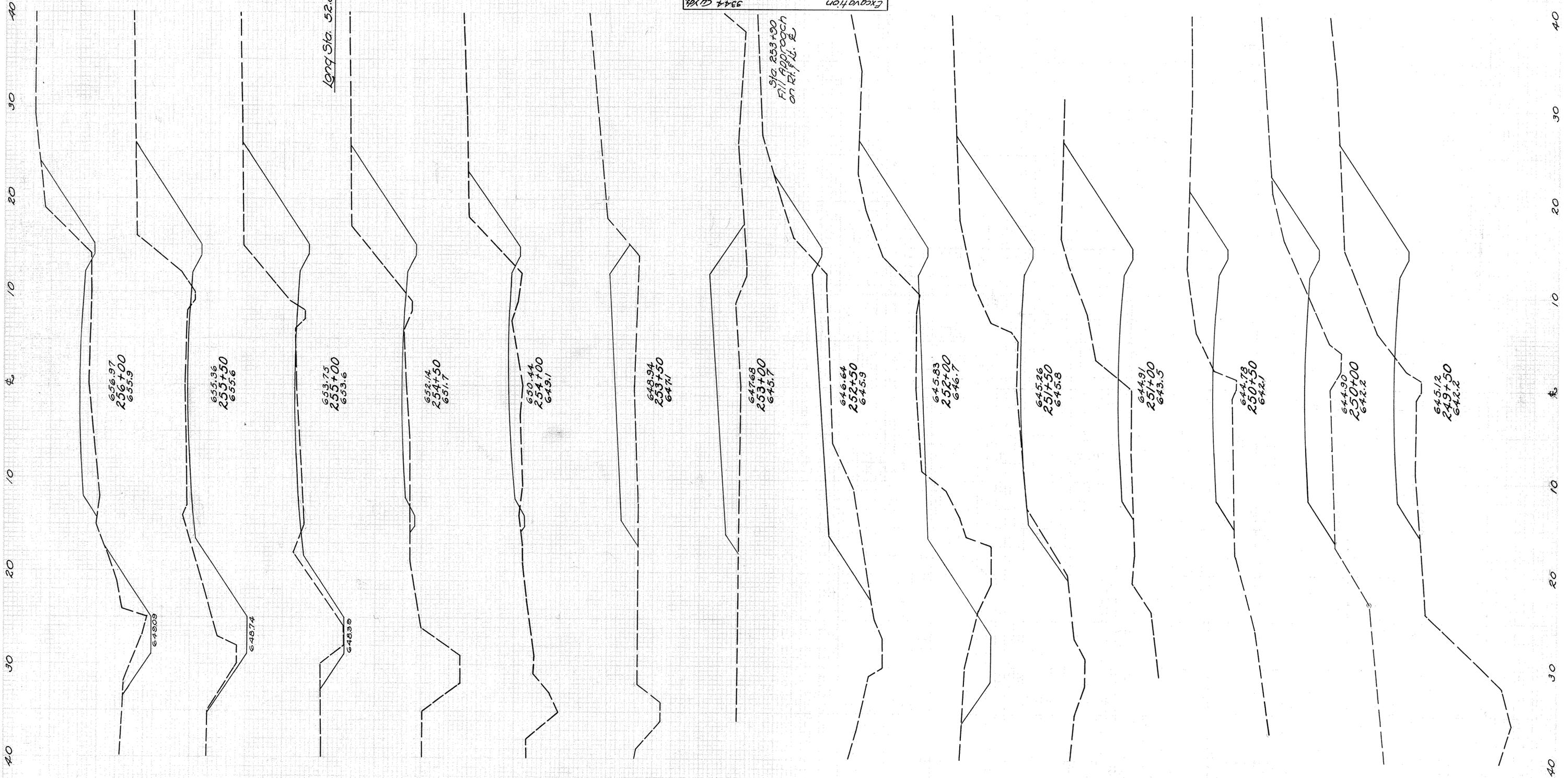


56' 241+00 to 243+00
 Fill for Approach to
 County Road.

STATION 243+00 TO 249+00

DATE	
PROJECT	
SCALE	
BY	
CHECKED	
APPROVED	

DATE	
PROJECT	
SCALE	
BY	
CHECKED	
APPROVED	



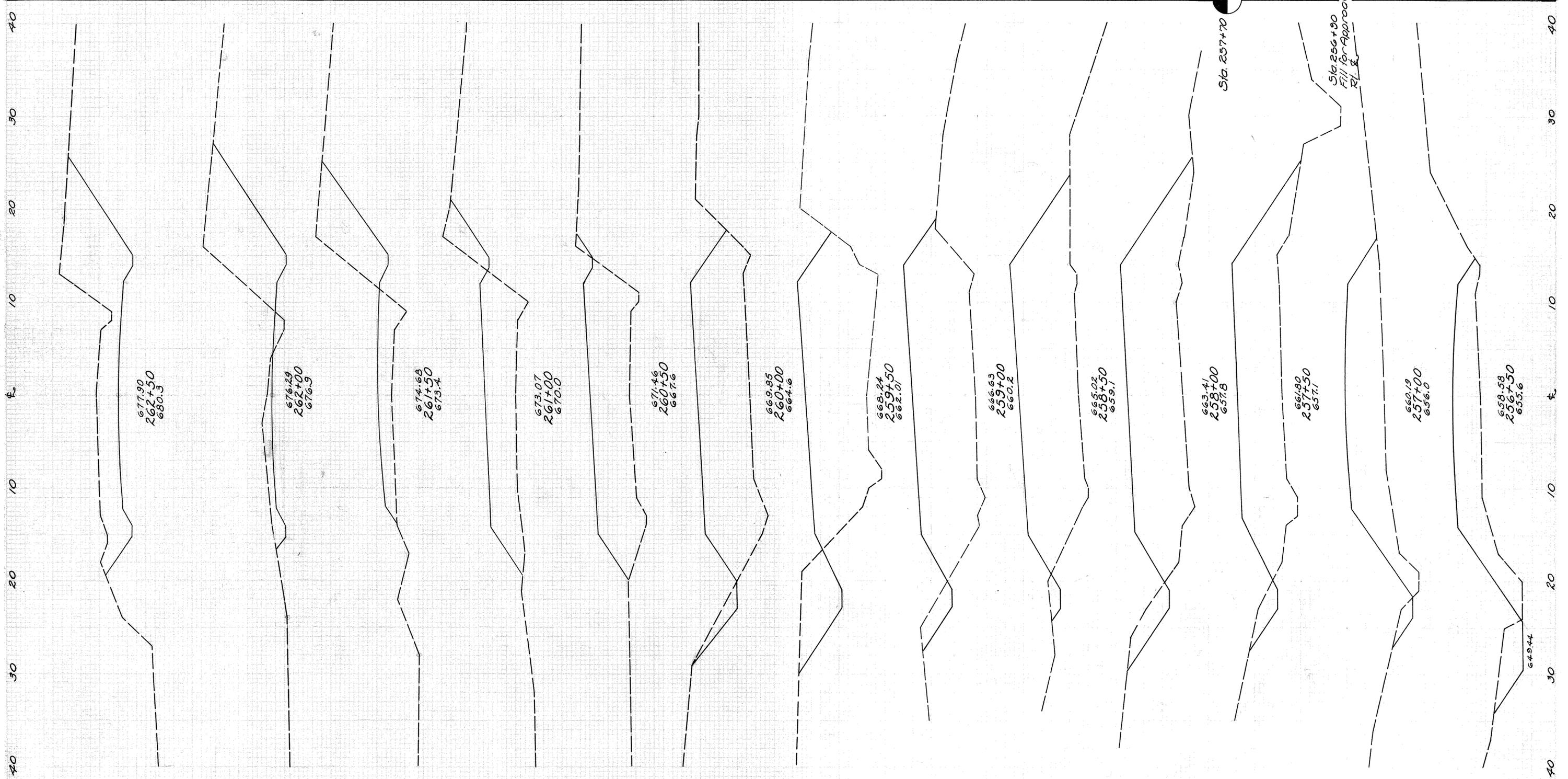
End Area	Cu. Yds.	Cut	Fill
36	32	50	122
93	1	120	31
73	10	156	110
125	23		
53	13	69	36
22	26	20	91
0	72	0	139
0	73	13	132
14	64	90	106
83	50	165	51
36	5	183	22
102	13	137	47
46	33	65	90
24	64	97	97
81	40		

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
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GALLIA COUNTY
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STATION 249+50 TO 256+00



END AREA	Cu. Yds.	Cut	Fill
138	0	234	0
93	3	214	3
50	39	133	39
15	104	60	132
2	147	16	232
7	202	9	323
36	214	40	385
10	223	43	409
5	228	14	422
14	228	18	422
9	187	14	231
5	136	22	385
13	100	8	154
13	100	21	218
13	100	21	218

FED. DIST. NO.	STATE	PROJECT	FISCAL YEAR
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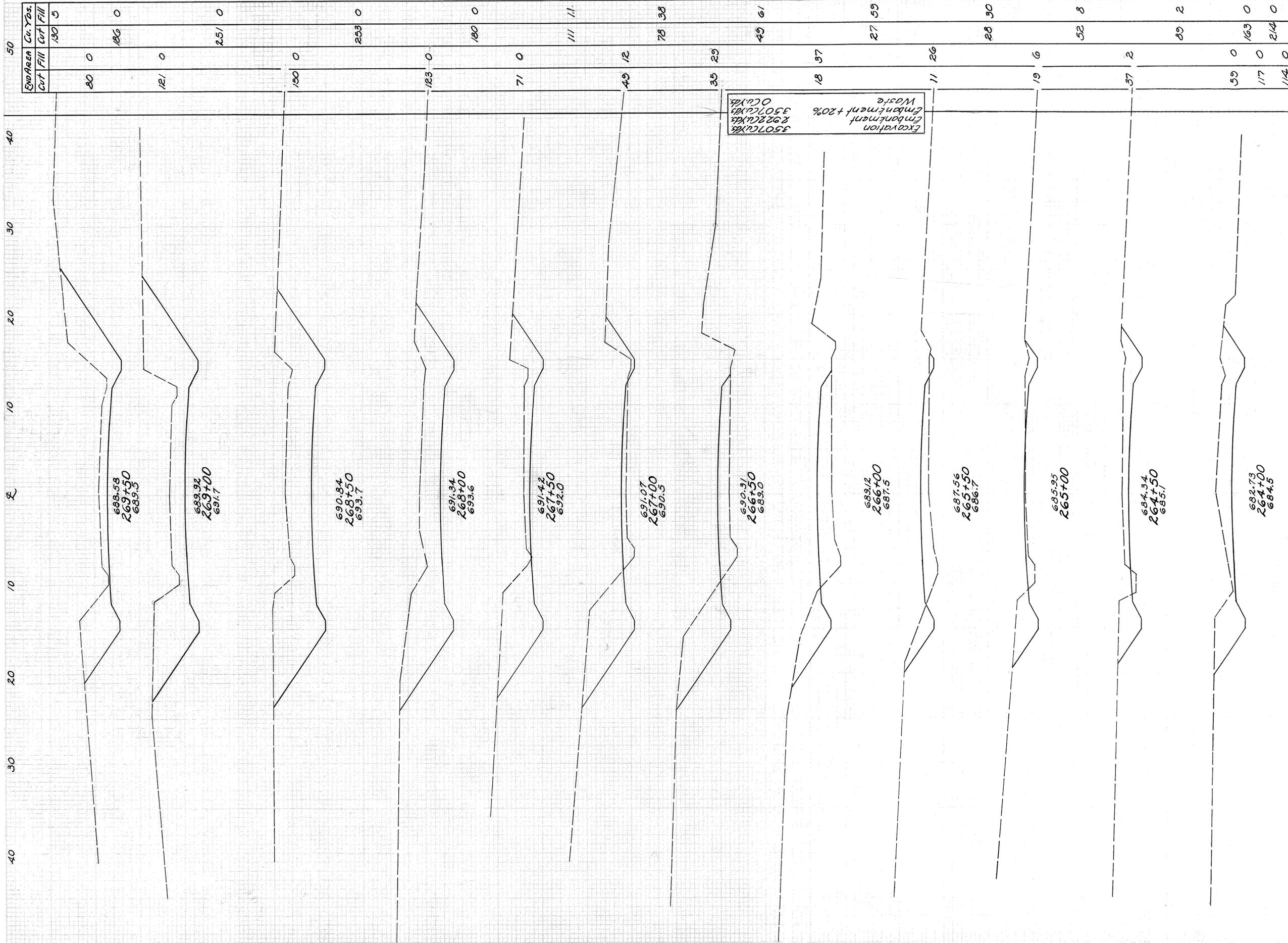
GALLIA COUNTY
 S.H. 776 SEC. NEW MILEAGE

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STATION 256+50 TO 262+50

DATE	
BY	
SCALE	
PROJECT	
NO.	

DATE	
BY	
SCALE	
PROJECT	
NO.	



Sta.	Excavation	Embankment	Waste	End Area	Cu. Yds.
263+00	150	0	0	150	0
264+00	121	0	0	121	0
265+00	80	0	0	80	0
266+00	71	0	0	71	0
267+00	49	12	0	49	12
268+00	35	29	0	35	29
269+00	18	37	0	18	37
270+00	11	26	0	11	26
271+00	6	19	0	6	19
272+00	2	37	0	2	37
273+00	0	89	0	0	89
274+00	0	163	0	0	163
275+00	0	214	0	0	214

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STATION 263+00 TO 269+50

40 30 20 10 0 10 20 30 40

Sta	Exc. Area	Cut	Fill	Exc. Area	Cut	Fill
679+00	99	0	135	0	135	0
679+50	16	0	84	0	84	0
677+00	136	0	183	0	183	0
677+10	176	3	176	3	176	3
676+50	54	2	71	2	71	2
676+00	22	0	28	1	28	1
675+50	8	1	22	14	22	14
675+00	16	14	87	13	87	13
674+50	78	0	193	0	193	0
674+00	190	0	290	0	290	0
673+50	133	0	322	0	322	0
673+00	155	0	200	0	200	0
672+50	70	0	68	11	68	11
672+00	3	12	35	22	35	22
671+50	34	11	73	32	73	32
671+00	45	23	90	31	90	31
670+50	52	10	104	14	104	14
670+00	60	5				

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Long Sta. 65.14'



Sta. 273+50

679+00
278+00
672+00

679+00
277+50
673+00

671+00
277+00
672+10

671+00
276+50
672+70

671+00
276+00
670+00

671+00
275+50
670+90

671+22
275+00
670+60

671+88
274+50
674+80

672+98
274+00
675+00

674+59
273+50
680+20

676+29
273+00
681+70

678+05
272+50
681+30

679+82
272+00
679+70

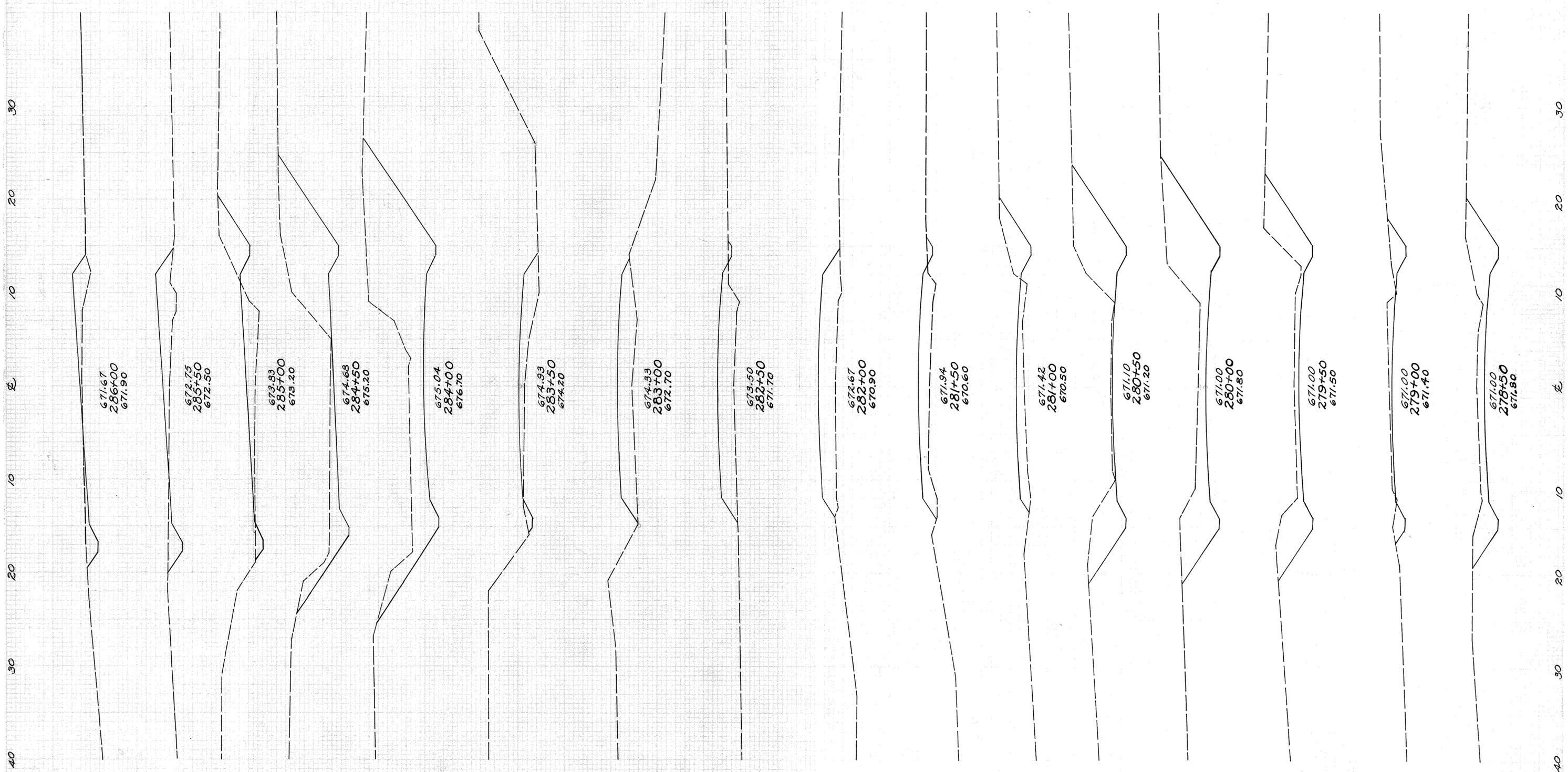
681+58
271+50
681+90

683+34
271+00
683+40

685+10
270+50
685+40

686+87
270+00
687+40

STATION 270+00 TO 278+00



Exc Area	Cut	Fill	Sta. Nos.	Exc Area	Cut	Fill
5	12	40	12	5	12	40
6	19	10	29	6	19	10
16	19	21	35	16	19	21
91	0	99	18	91	0	99
155	0	228	0	155	0	228
1	19	143	18	1	19	143
0	44	1	59	0	44	1
1	43	1	81	1	43	1
0	49	1	85	0	49	1
1	30	1	73	1	30	1
14	21	14	47	14	21	14
69	0	77	20	69	0	77
97	0	154	0	97	0	154
59	0	145	0	59	0	145
17	0	71	0	17	0	71
47	0	60	0	47	0	60

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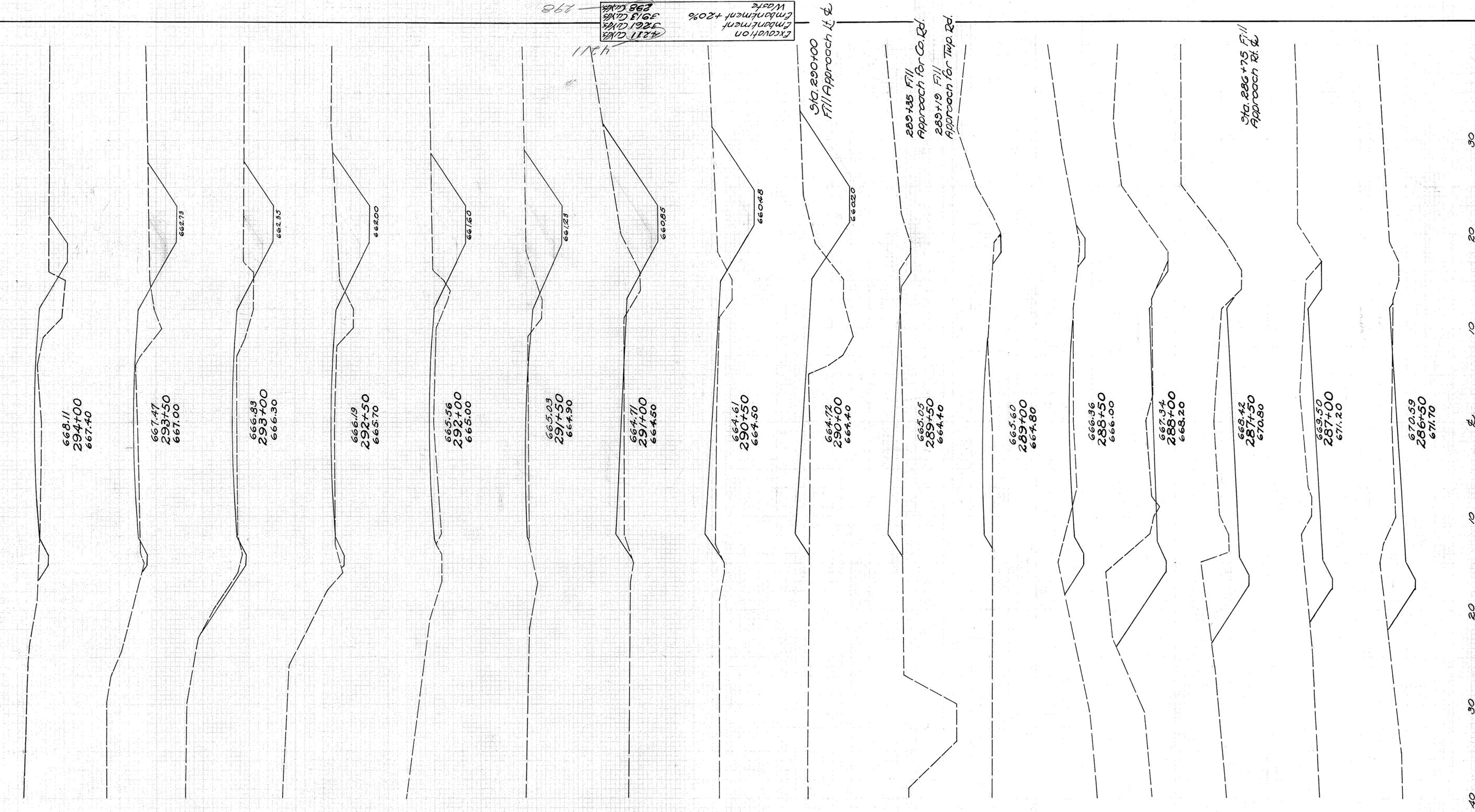
12
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40 30 20 10 0 10 20 30 40

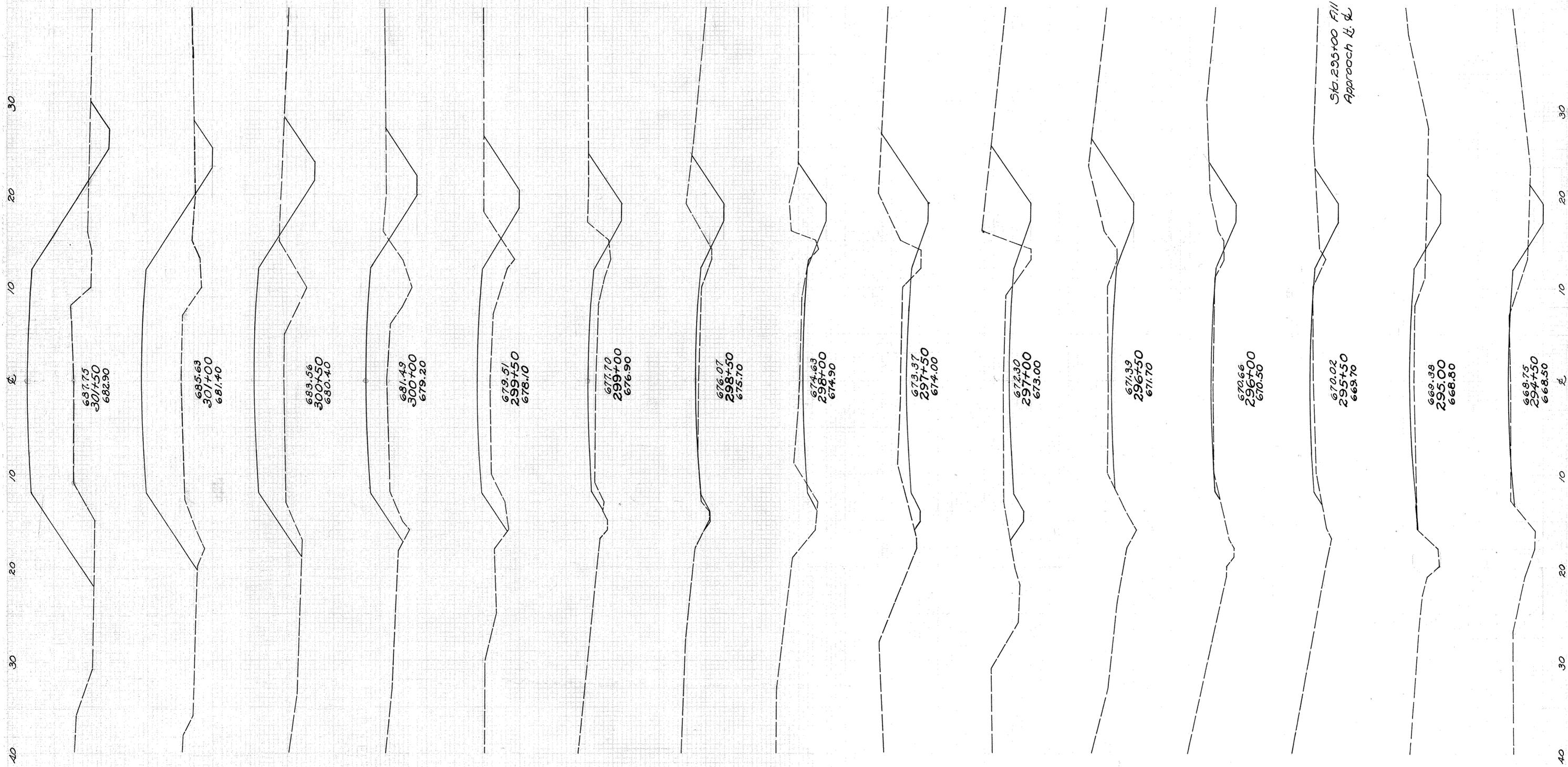
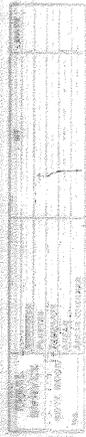
End Area	Cut	Fill	Cut	Fill
12	24		18	28
27	18		36	39
32	16		33	34
36	14		63	28
35	17			
38	6			
41	11		73	16
43	21			
48	60		85	75
2	22		46	76
1	17			
14	6		14	22
51	1		60	7
73	0		115	1
53	0		117	0
38	1		85	1

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STATION 286+50 TO 294+00



END AREA	CUT	FILL	CUT	FILL	Cu. Yds.
12	180		22	334	22 334
9	147		20	303	20 303
26	108		34	231	34 231
24	78		47	167	47 167
25	48		46	117	46 117
22	22		44	65	44 65
23	7		42	27	42 27
34	2		53	9	53 9
59	2		86	4	86 4
54	4		105	6	105 6
44	0		91	4	91 4
14	5		54	5	54 5
13	9		25	13	25 13
8	13		20	21	20 21
8	8		15	18	15 18
			6	20	6 20

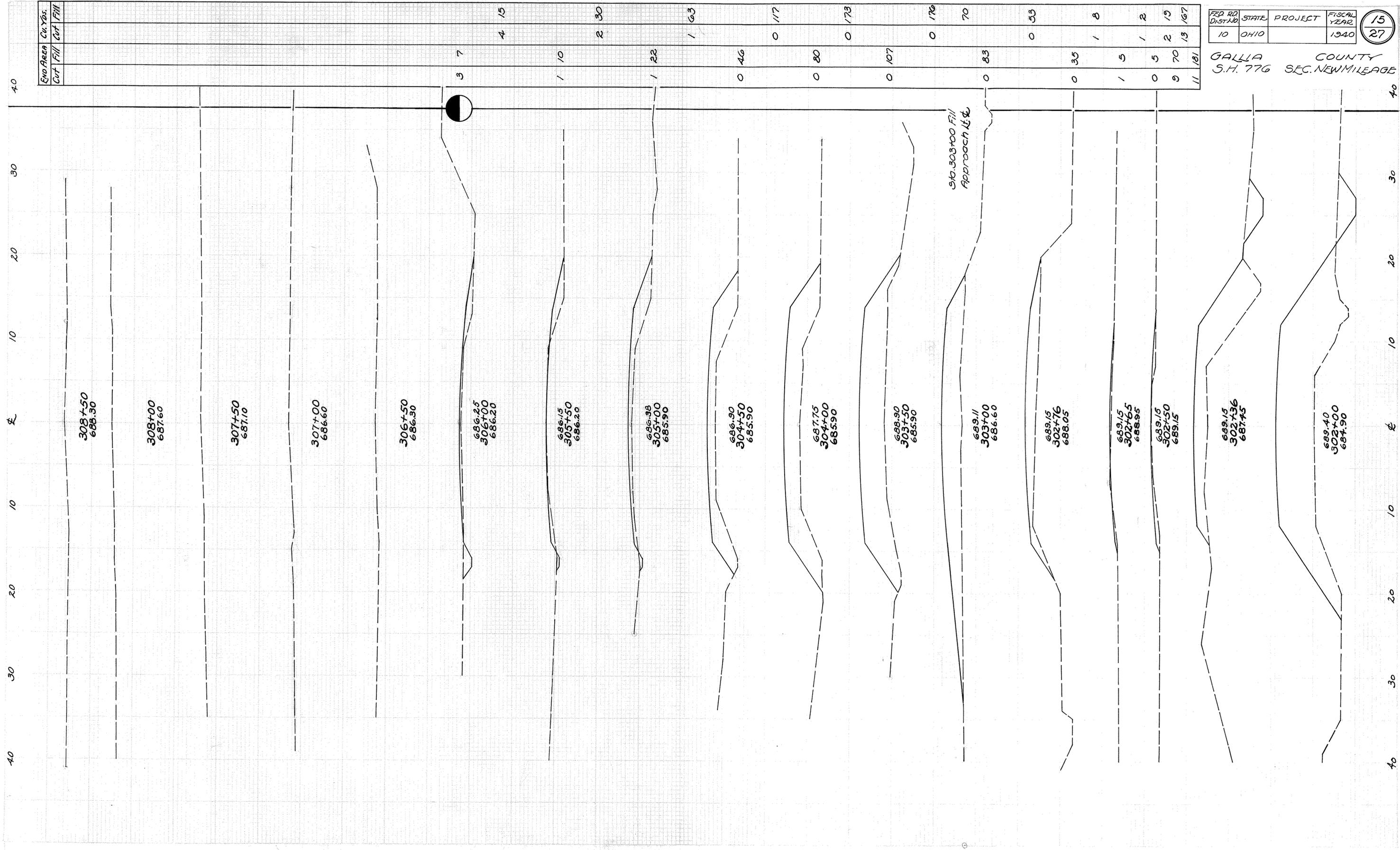
FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
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PERSONAL SURVEY
 COUNTY OF GALLIA
 DISTRICT NO. 10
 PROJECT S.H. 776
 DATE 1940

PERSONAL SURVEY
 COUNTY OF GALLIA
 DISTRICT NO. 10
 PROJECT S.H. 776
 DATE 1940



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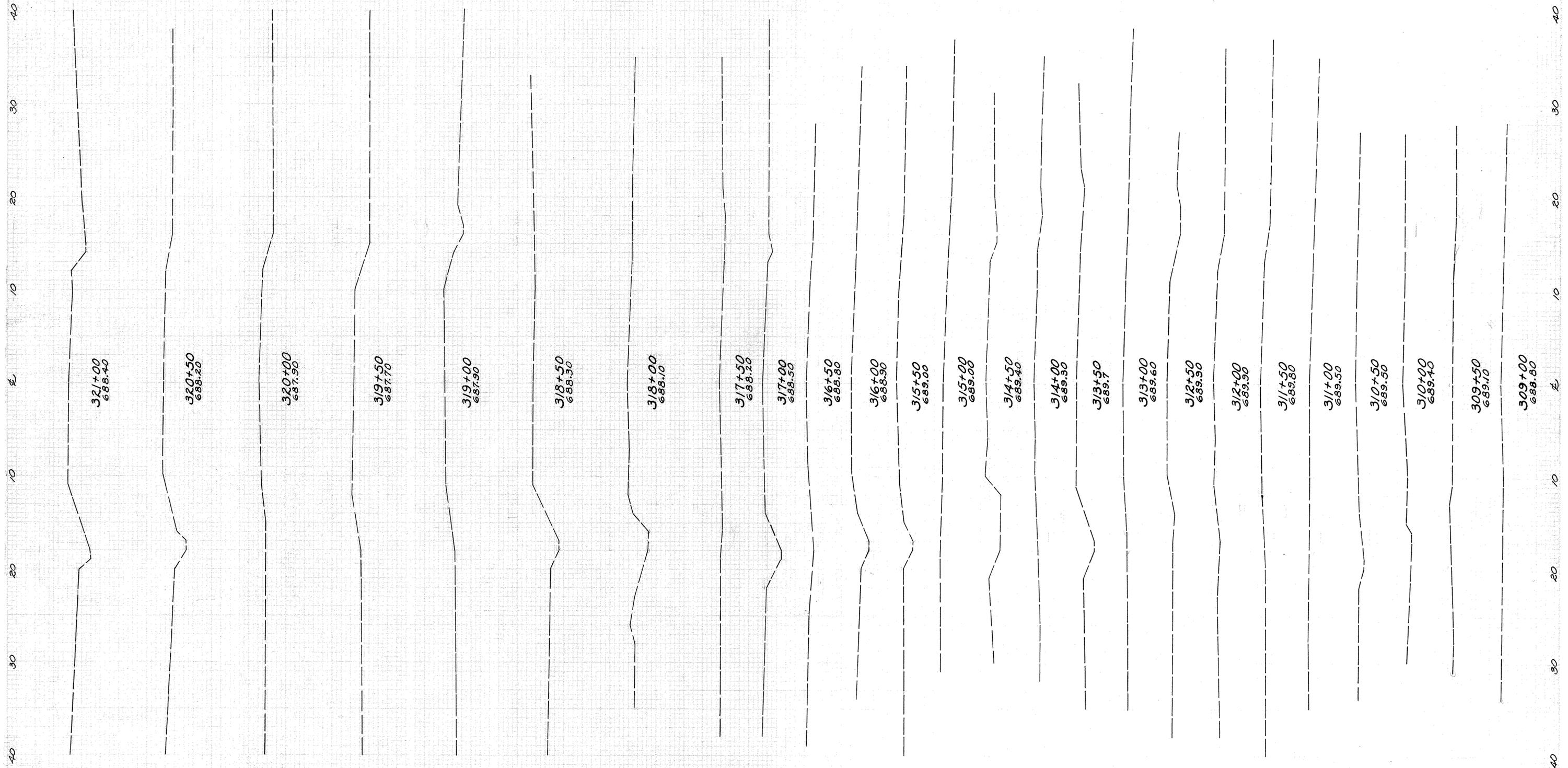
STATION 302+00 TO 308+50

END AREA	Cu. Yds.	Cut	Fill

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

GALLIA COUNTY
S.H. 776 SEC. NEW MILEAGE

16
27

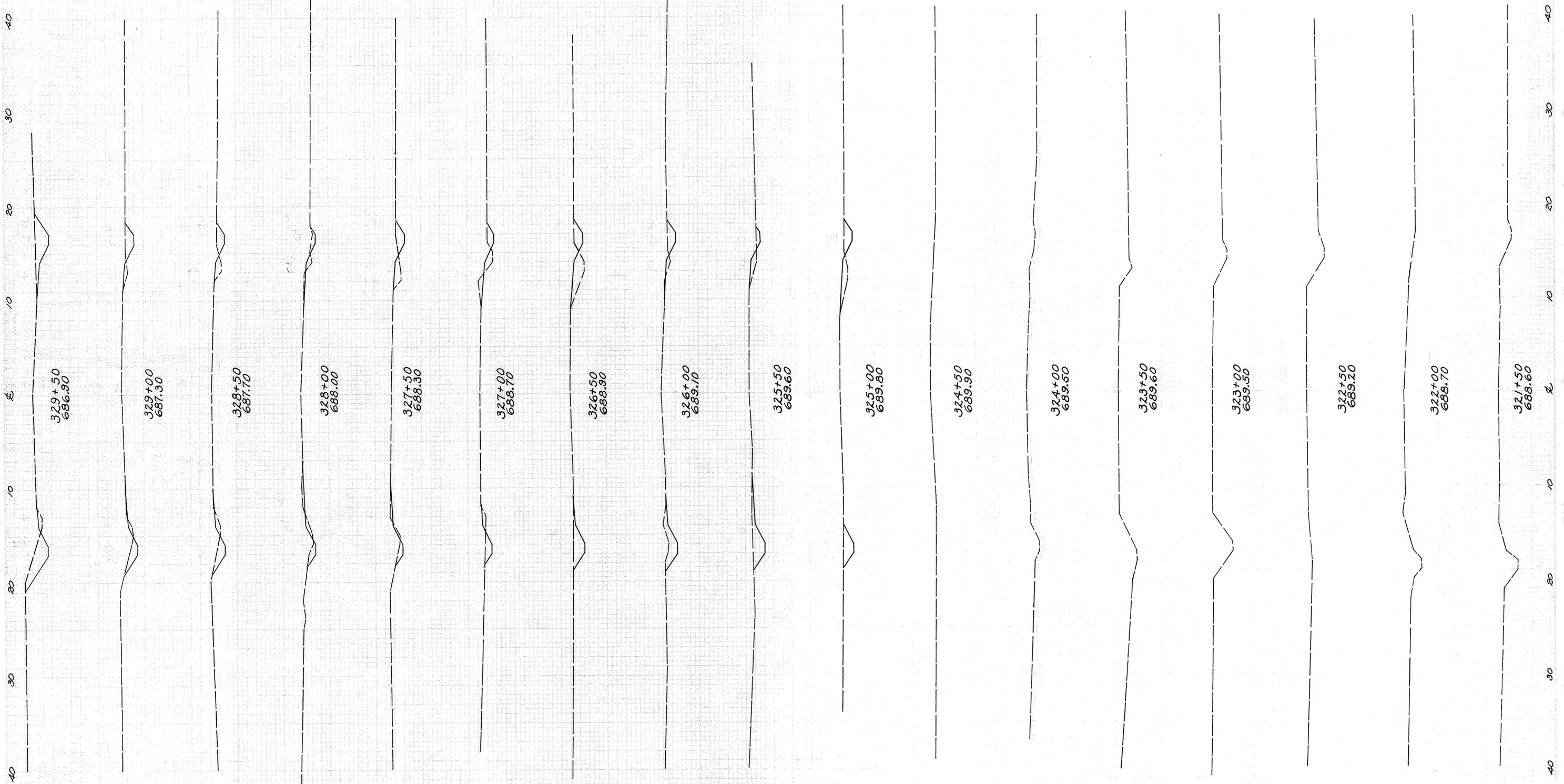


STATION 309+00 TO 321+00

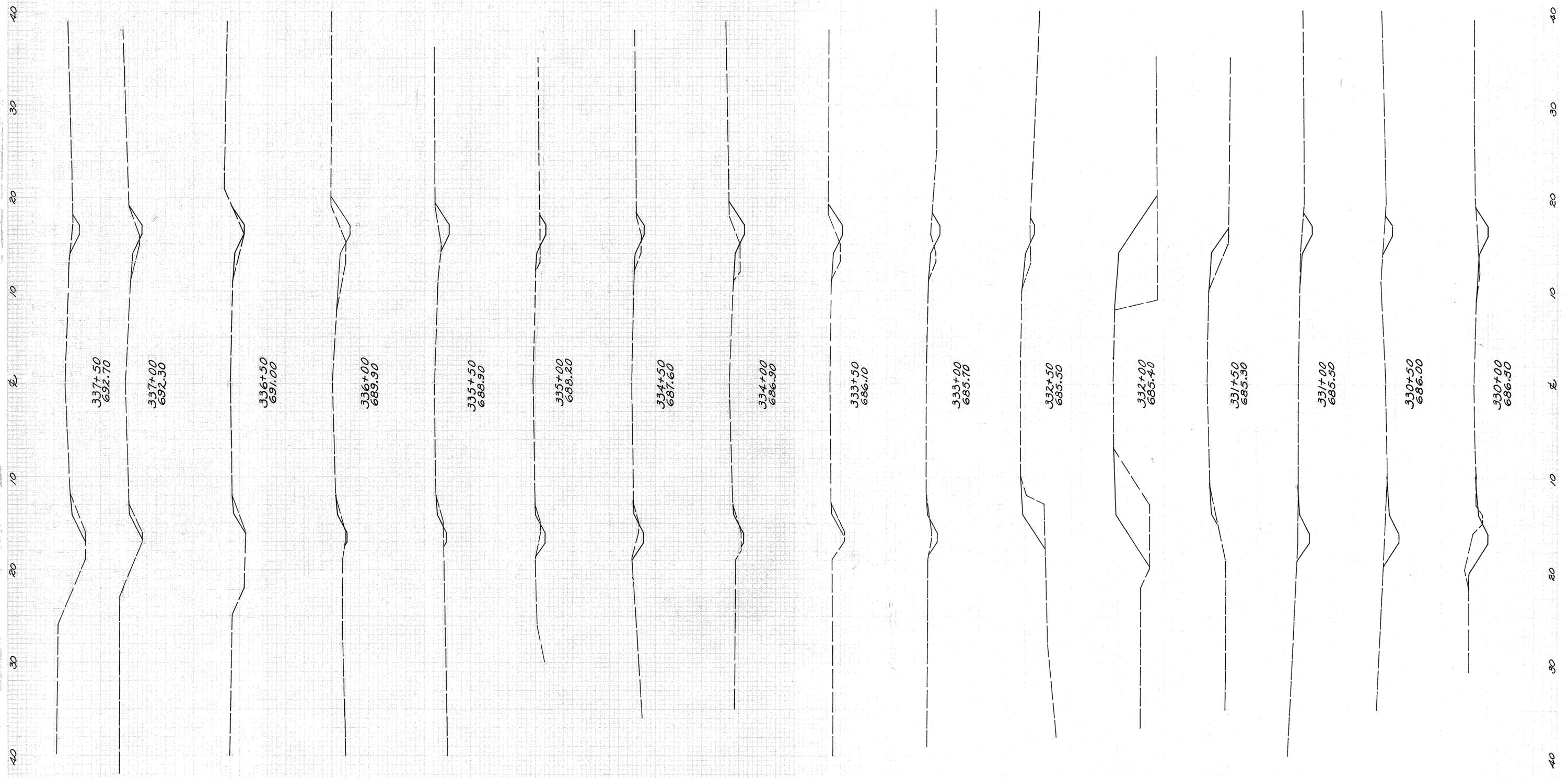


End Area	Sta	Fill	Cut								
11	1	15	3	20	2	20	2	20	2	20	2
5	2	9	5	6	5	4	4	4	4	4	4
4	3	2	4	2	2	3	2	3	2	3	2
3	4	2	3	2	3	2	3	2	3	2	3
3	5	2	3	2	3	2	3	2	3	2	3
5	6	4	5	4	5	4	5	4	5	4	5
6	7	1	6	1	6	1	6	1	6	1	6
7	8	1	7	1	7	1	7	1	7	1	7
6	9	3	6	3	6	3	6	3	6	3	6
0	10	0	0	0	0	0	0	0	0	0	0
6	11	3	6	3	6	3	6	3	6	3	6
7	12	1	7	1	7	1	7	1	7	1	7
6	13	3	6	3	6	3	6	3	6	3	6
0	14	0	0	0	0	0	0	0	0	0	0

FED. RD. DIST. NO. 10 STATE OHIO PROJECT S.H. 776 COUNTY GALLIA FISCAL YEAR 1940 17/27 SEC. NEW MILEAGE



STATION 321+50 TO 329+50



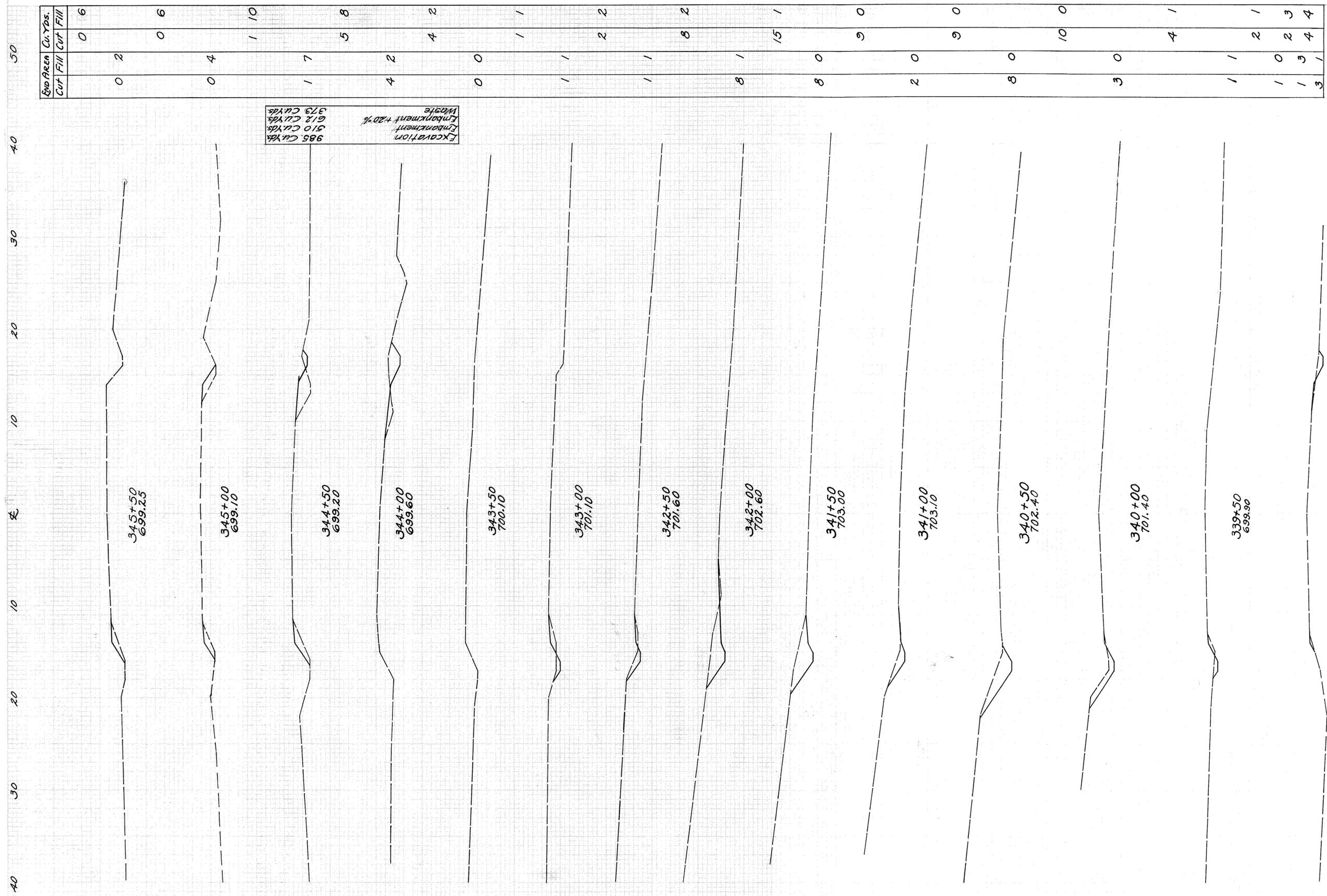
End Area	Cut	Fill	Cut	Fill	Cu. Yds.
2	3	4	5	4	4
2	4		4	6	6
1	4		3	7	7
4	3		5	6	6
4	3		8	4	4
5	1		8	2	2
4	1		6	2	2
3	1		7	3	3
5	2		7	6	6
3	5		6	6	6
4	2		5	12	12
1	11		1	68	68
0	62		0	65	65
0	8		8	7	7
8	0		8	0	0
11	1		11	1	1

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

GALLIA COUNTY
S.H. 776 SEC. NEW MILEAGE

18
27

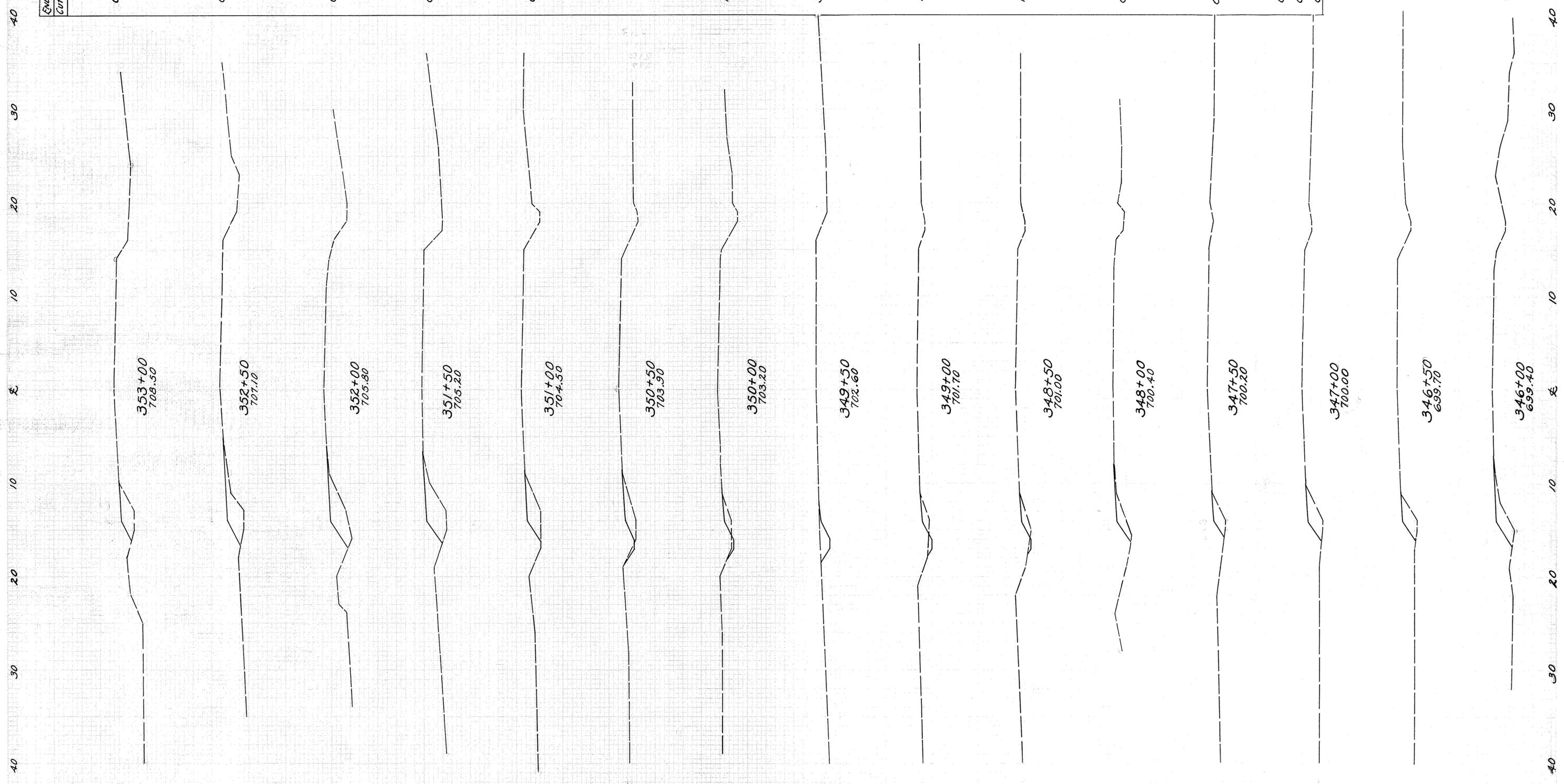
STATION 330+00 TO 337+50



FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

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27

Sta. Area	Cu. Yds. Cut	Cu. Yds. Fill
	0	6
	0	2
	0	4
	1	7
	4	2
	0	0
	1	1
	1	1
	8	1
	8	0
	2	0
	8	0
	3	0
	1	1
	1	0
	1	3
	3	4



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
0	6	1	7
0	9	0	14
0	9	0	17
0	10	0	17
0	6	0	15
1	6	1	10
1	2	1	5
1	2	2	6
3	0	4	2
1	2	2	4
1	2	1	6
0	4	0	6
0	3	0	7
0	5	0	9
0	5	0	9
0	0	0	0

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

GALLIA COUNTY
S.H. 776 SEC. NEW MILEAGE

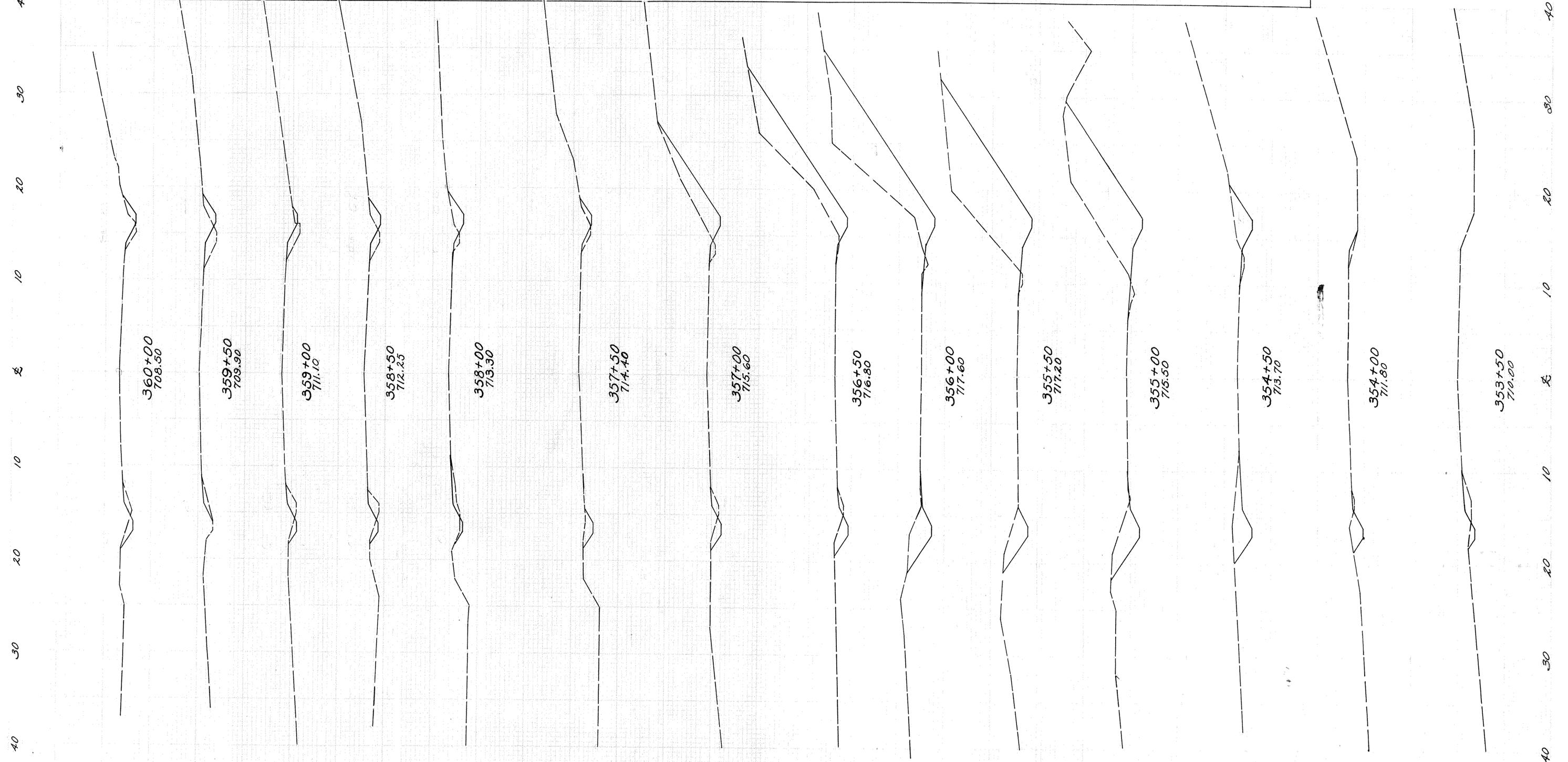
20
27

Sta	End Area Cu. Yds.	
	Cut	Fill
360+00	2	4
359+50	2	4
359+00	2	4
358+50	3	6
358+00	4	6
357+50	3	20
357+00	19	3
356+50	37	52
356+00	78	106
355+50	84	150
355+00	72	144
354+50	18	83
354+00	3	19
353+50	1	4
	1	3

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

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27

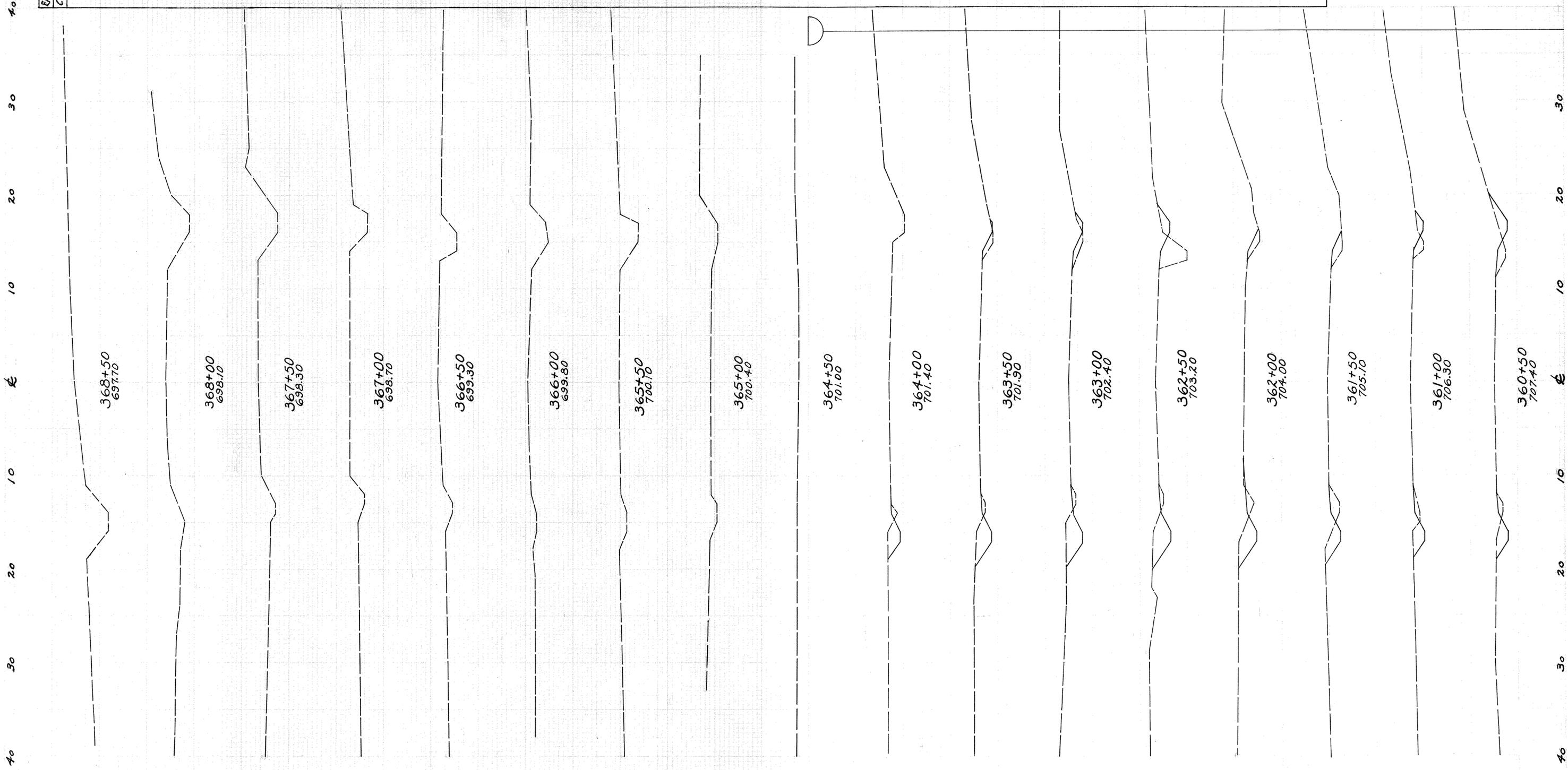
GALLIA COUNTY
S.H. 776 SEC. NEW MILEAGE



STATION 353+50 TO 360+00

ORIGINAL SURVEY
 SECURITY
 DISTRICT

ORIGINAL SURVEY
 SECURITY
 DISTRICT



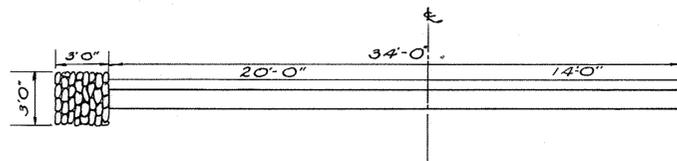
END AREA	Cu. Yds.	Cut	Fill	Cut	Fill
0	0	3	1	7	3
3	1	5	2	12	4
8	2	9	7	15	8
14	8	6	2	9	6
22	14	4	4	6	6
27	22	3	3	3	3

FED. RD. DIST. No.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

GALLIA COUNTY
 S.H. 776 SEC. NEW MILEAGE

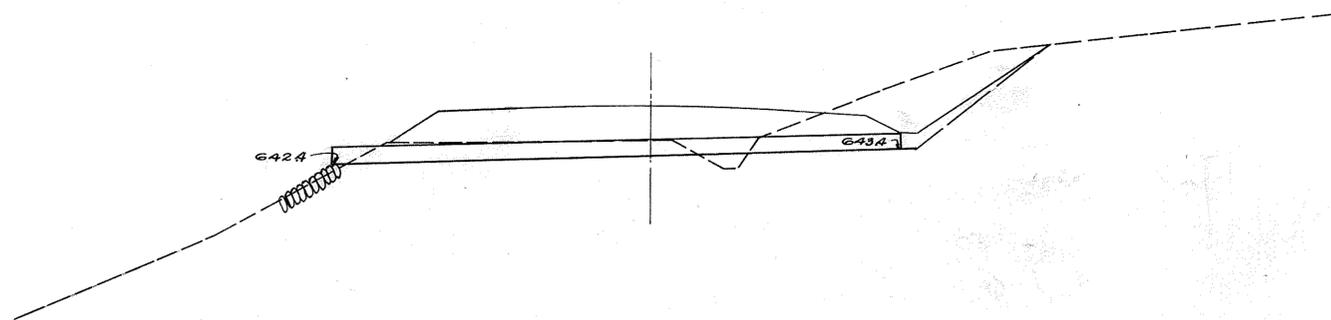
STATION 360+50 TO 368+50

STRUCTURE No 1-C
Station 248+00



CULVERT DATA
Type ~ Std. Pipe Culvert.
Size ~ 12" x 34'-0"
Work Req'd. ~ Build Std. pipe culvert with 1 sq. yd. of 12" Rip Rap on Left.
Remove present 1'x1'x17" stone Box.

ESTIMATED QUANTITIES
Structure Excavation 3 Cu.Yds.
12" Pipe for Roadway Culvert 34 Lin.Ft.
12" Hand Laid Rip Rap 1 Sq.Yd.

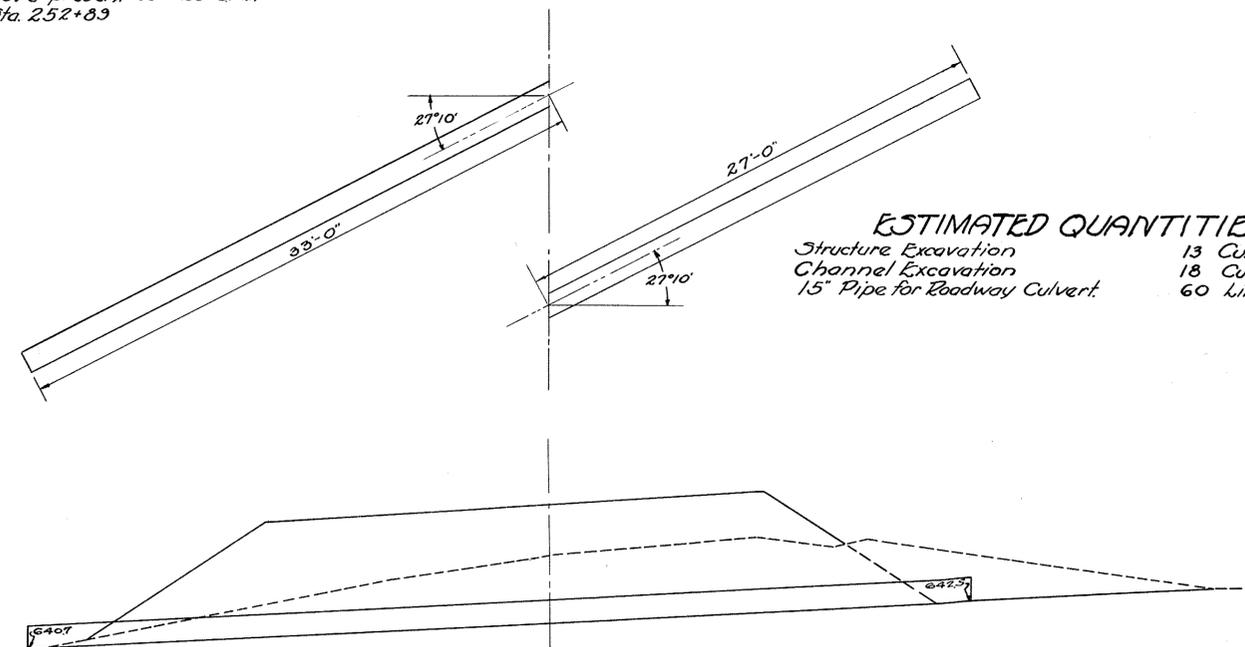


STRUCTURE No 3-C
Station 252+83

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR	23 27
10	OHIO		1940	

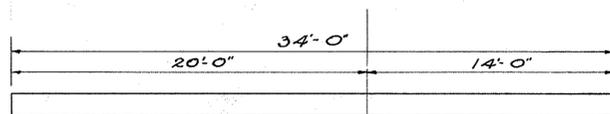
GALLIA COUNTY
JH 776 Sec.

CULVERT DATA
Type ~ Std. Pipe Culvert.
Size ~ 15" x 60'-0"
Work Req'd. ~ Build Std. pipe Culvert 27°10' Right Forward skew.
Remove present 15" x 20" C.M.P. at Sta. 252+83



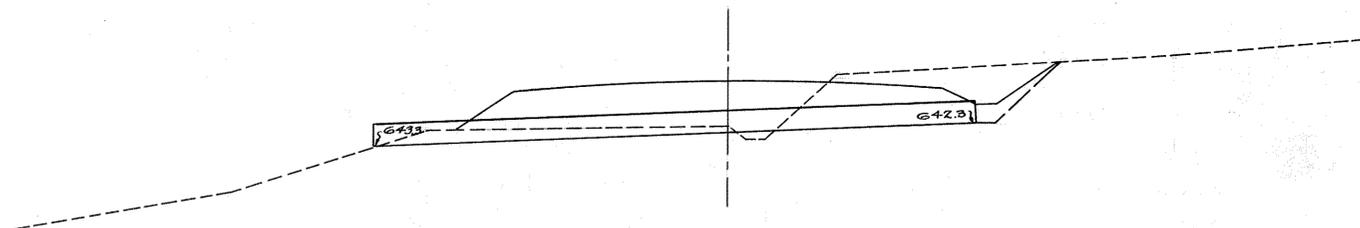
ESTIMATED QUANTITIES
Structure Excavation 13 Cu.Yds.
Channel Excavation 18 Cu.Yds.
15" Pipe for Roadway Culvert 60 Lin.Ft.

STRUCTURE No 2-C
Station 250+36



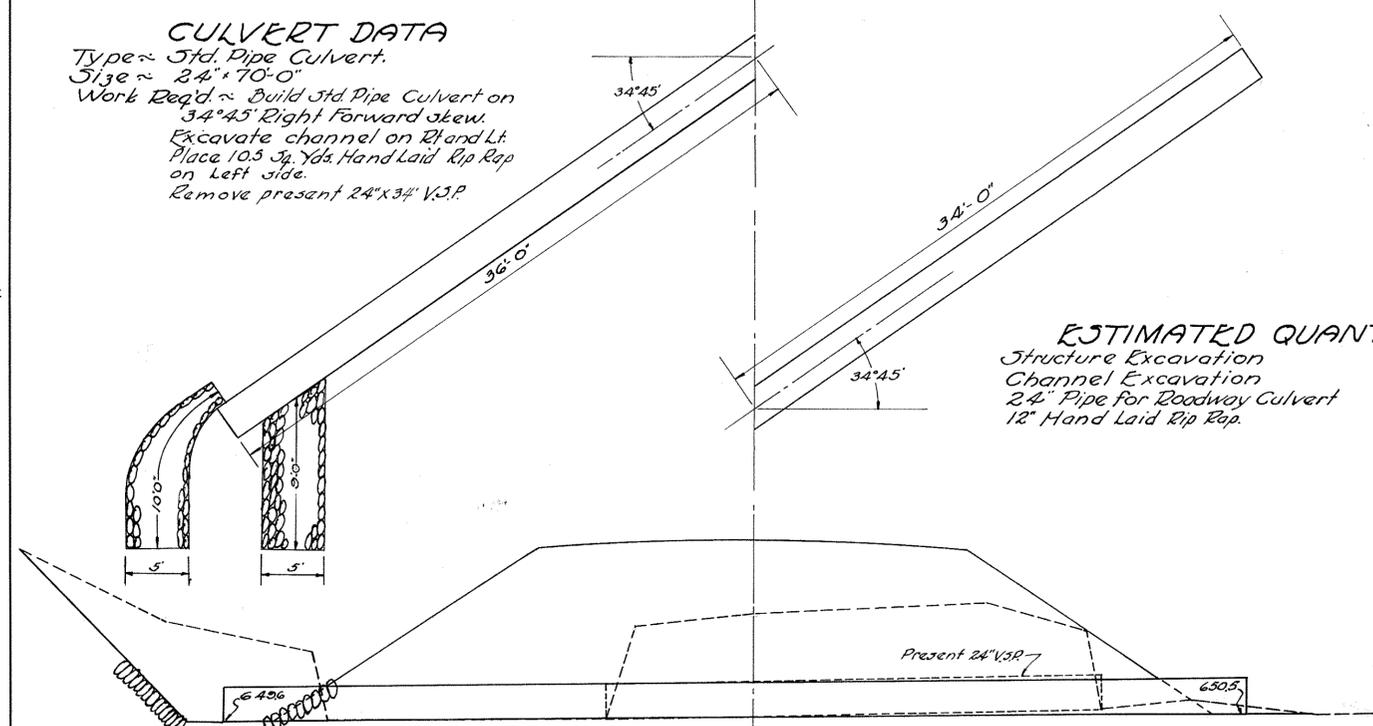
CULVERT DATA
Type ~ Std. Pipe Culvert.
Size ~ 15" x 34'-0"
Work Req'd. ~ Build Std. pipe culvert.
Remove present 12" x 18" V.S.P. at Station 250+10

ESTIMATED QUANTITIES
Structure Excavation 5 Cu.Yds.
15" Pipe for Roadway Culvert 34 Lin.Ft.



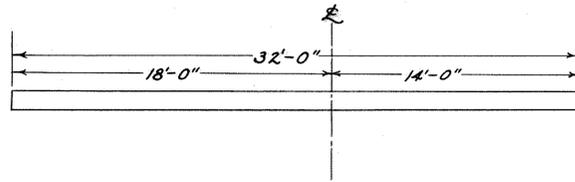
STRUCTURE No 4-C
Station 256+94

CULVERT DATA
Type ~ Std. Pipe Culvert.
Size ~ 24" x 70'-0"
Work Req'd. ~ Build Std. Pipe Culvert on 34°45' Right Forward skew.
Excavate channel on Rt and Lt.
Place 10.5 Sq. Yds. Hand Laid Rip Rap on Left side.
Remove present 24" x 34" V.S.P.



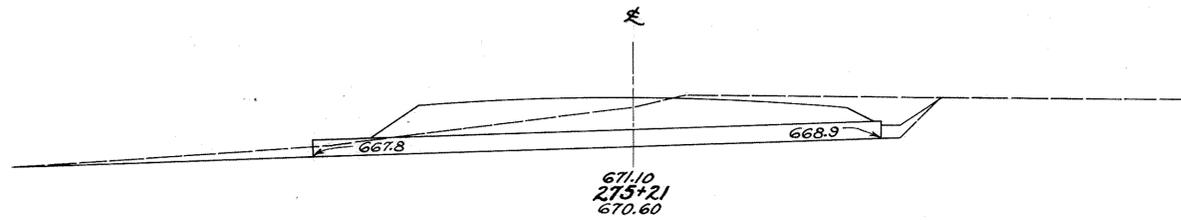
ESTIMATED QUANTITIES
Structure Excavation 35 Cu.Yds.
Channel Excavation 40 Cu.Yds.
24" Pipe for Roadway Culvert 70 Lin.Ft.
12" Hand Laid Rip Rap 10.5 Sq. Yds.

STRUCTURE No. 5-C
STA. 275+21



CULVERT DATA
Type: Std. Pipe Culvert
Size: 12" x 32"
Work Req'd.: Build Std. Pipe Culvert

ESTIMATED QUANTITIES
Structure Excavation 5.6 Cu.Yds.
Channel Excavation 0.4 Cu.Yds.
12" Pipe for Rdwy. Culv. 32. Lin.Ft.



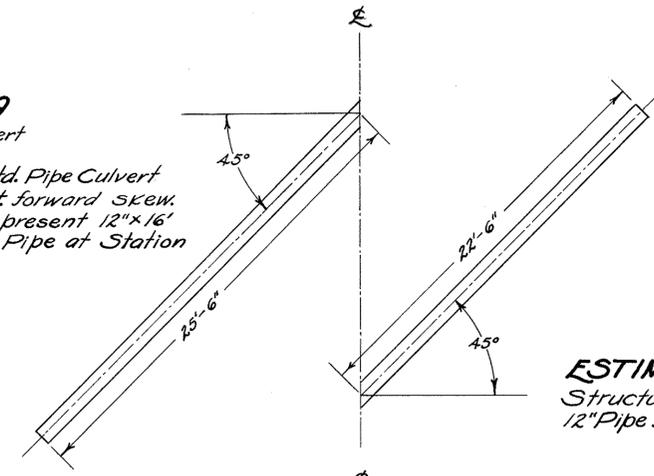
STRUCTURE No. 7-C
STA. 281+66

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

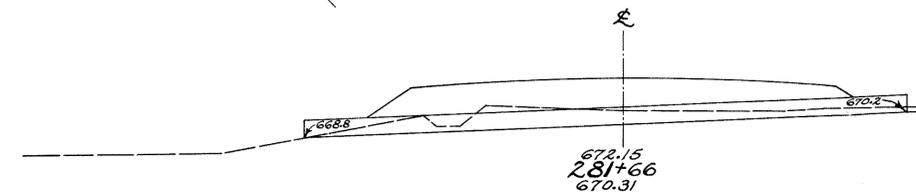
24
27

GALLIA COUNTY
S.H. 776 SEC. NEW MILEAGE

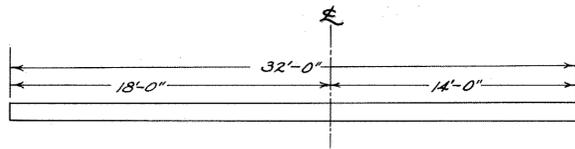
CULVERT DATA
Type: Std. Pipe Culvert
Size: 12" x 48"
Work Req'd.: Build Std. Pipe Culvert on 45° E. forward skew. Remove present 12" x 16' Concrete Pipe at Station 281+36.



ESTIMATED QUANTITIES
Structure Excavation 2.5 Cu.Yds.
12" Pipe for Rdwy. Culv. 48. Lin.Ft.

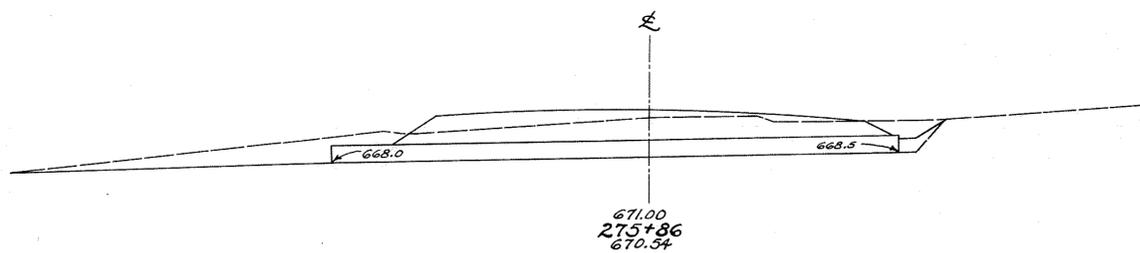


STRUCTURE No. 6-C
STA. 275+86



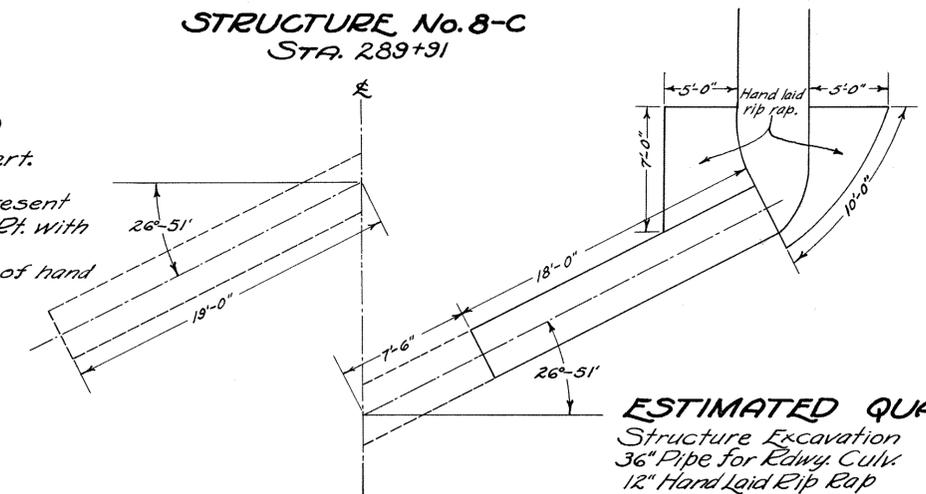
CULVERT DATA
Type: Std. Pipe Culvert
Size: 12" x 32"
Work Req'd.: Build Std. Pipe Culvert. Remove present 10" x 12' C.M.R. at Station 275+75.

ESTIMATED QUANTITIES
Structure Excavation 4.7 Cu.Yds.
Channel Excavation 1.0 Cu.Yds.
12" Pipe for Rdwy. Culv. 32. Lin.Ft.

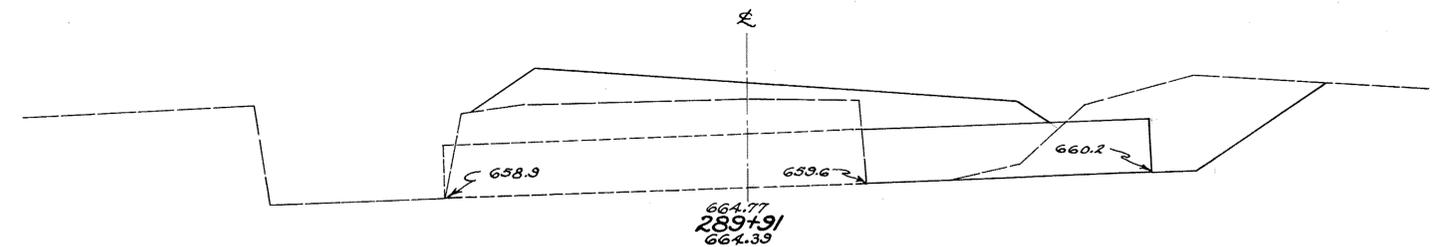


STRUCTURE No. 8-C
STA. 289+91

CULVERT DATA
Type: Std. Pipe Culvert.
Size: 36"
Work Req'd.: Extend present Concrete Pipe on E. with Std. Pipe Culvert. Place 9.5 Sq.Yds. of hand laid rip rap on E.



ESTIMATED QUANTITIES
Structure Excavation 5.7 Cu.Yds.
36" Pipe for Rdwy. Culv. 18. Lin.Ft.
12" Hand Laid Rip Rap 9.5 Sq.Yds.

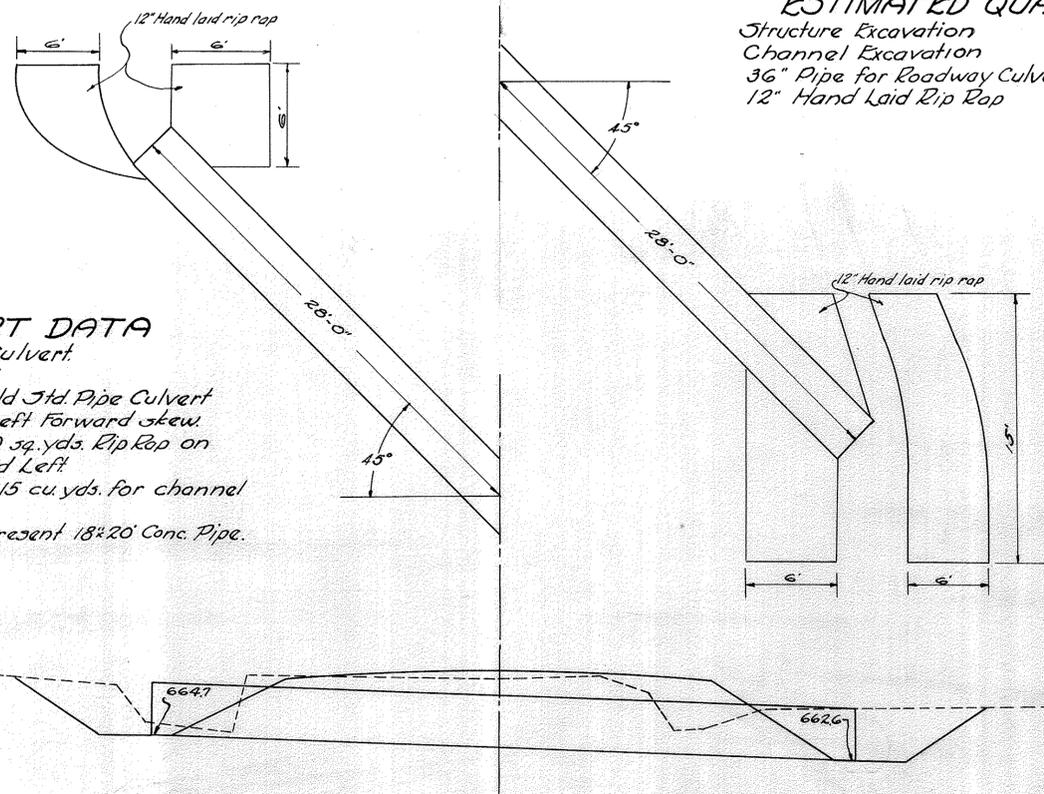


STRUCTURE No 9-C
Station 294+06

ESTIMATED QUANTITIES
 Structure Excavation 38 Cu.Yds.
 Channel Excavation 15 Cu.Yds.
 36" Pipe for Roadway Culvert 56 Lin.Ft.
 12" Hand Laid Rip Rap 30 Sq.Yds.

CULVERT DATA

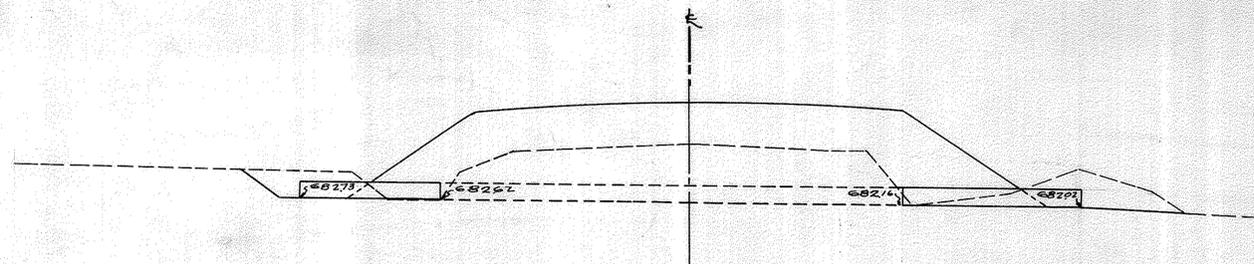
Type ~ Std. Pipe Culvert
 Size ~ 36" x 56'-0"
 Work Req'd ~ Build Std. Pipe Culvert on 45° Left Forward skew. Place 30 sq. yds. Rip Rap on Right and Left. Excavate 15 cu. yds. for channel on left. Remove present 18" x 20" Conc. Pipe.



STRUCTURE No 11-C
Station 303+83

ESTIMATED QUANTITIES
 Structure Excavation 1 Cu.Yd.
 Channel Excavation 2 Cu.Yds.
 12" Pipe for Roadway Culvert 18 Lin.Ft.

CULVERT DATA
 Type ~ Std. Pipe Culvert Extension
 Size ~ 12" x 10'-0" on Rt. 12" x 8'-0" on Lt.
 Work Req'd ~ Extend present 12" x 26'-0" VSR with Std. pipe culvert 10'-0" on right and 8'-0" on left. Excavate 2 Cu.Yds for channel.



STRUCTURE No 10-C
Station 302+60.8

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

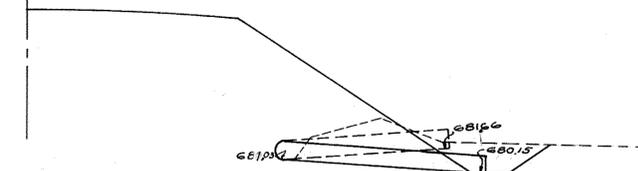
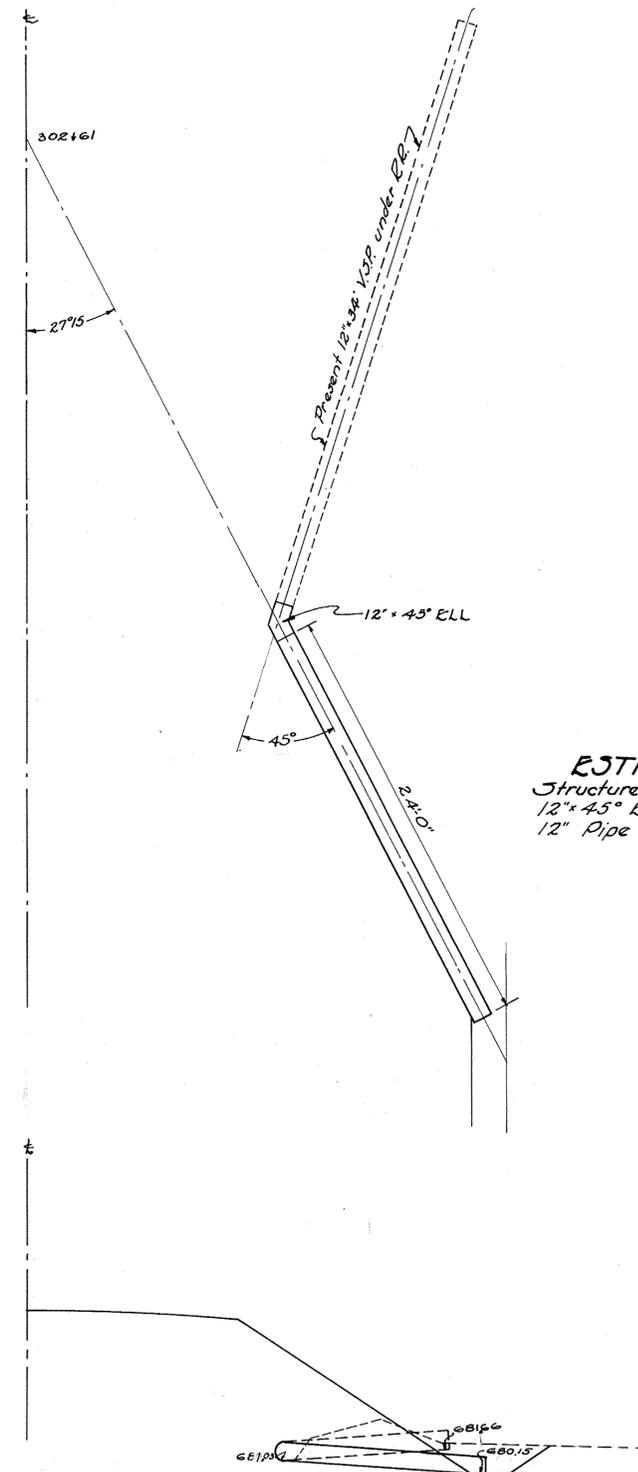
25
27

GALLIA COUNTY
J.H. 776 Dec.

CULVERT DATA

Type ~ Std. Pipe Culvert Extension
 Size ~ 12" x 24'-0"
 Work Req'd ~ Extend present 12" VSR by placing 45° Ell on present 12" VSR and extending 24'-0" at 27°15' left forward skew.

ESTIMATED QUANTITIES
 Structure Excavation 4 Cu.Yds.
 12" x 45° Ell 1 Unit.
 12" Pipe for Roadway Culv. 24 Lin.Ft.

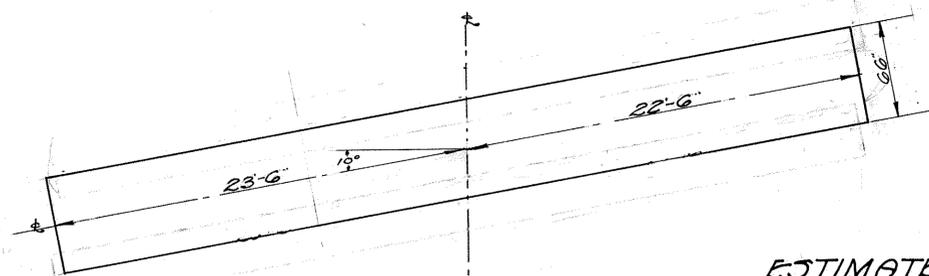


STRUCTURE No 12-C
Station 318+75

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1940

26
27

GALLIA COUNTY
S.H. 776 Sec.



ESTIMATED QUANTITIES
 Structure Excavation 25 Cu.Yds.
 Channel Excavation 5 Cu.Yds.
 38"x66" Arch Pipe Culv. (Paved Invert) 46 Lin. Ft.

CULVERT DATA

Type~ Arch Pipe Culvert (Paved Invert)
 Size~ 38"x66"x46'-0"
 Work Req'd~ Build Arch Pipe Culvert (Paved Invert)
 on 10° right forward skew.
 Excavate 5 cu. yds. for channel on Rt.
 Remove present conc. structure.

