

5-K

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
CLEVELAND — MEADVILLE ROAD
I.C.H. NO. 15 SEC. J-K1 PET. NO.
GEAUGA COUNTY
CLARIDON - HUNTSBURG TOWNSHIPS
MAY 1929

FED. AID DIST. NO.	STATE	FED. AID PROJECT YEAR	FISCAL YEAR
10	OHIO	489-C	1929

1/31

S.H. (I.C.H.) 15 SEC. J-K,
GEAUGA COUNTY.
GON 032 322
12.96-17.77

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 not require the closing to traffic of the highway.

CONVENTIONAL SIGNS

County Line _____
Township Line _____
Property Line _____
Center Line _____
Fence _____
C.E.I. or Tel. poles | | | | |
Guard Rail _____
Drain Pipe _____
Trees ○ ○ ○ ○ ○

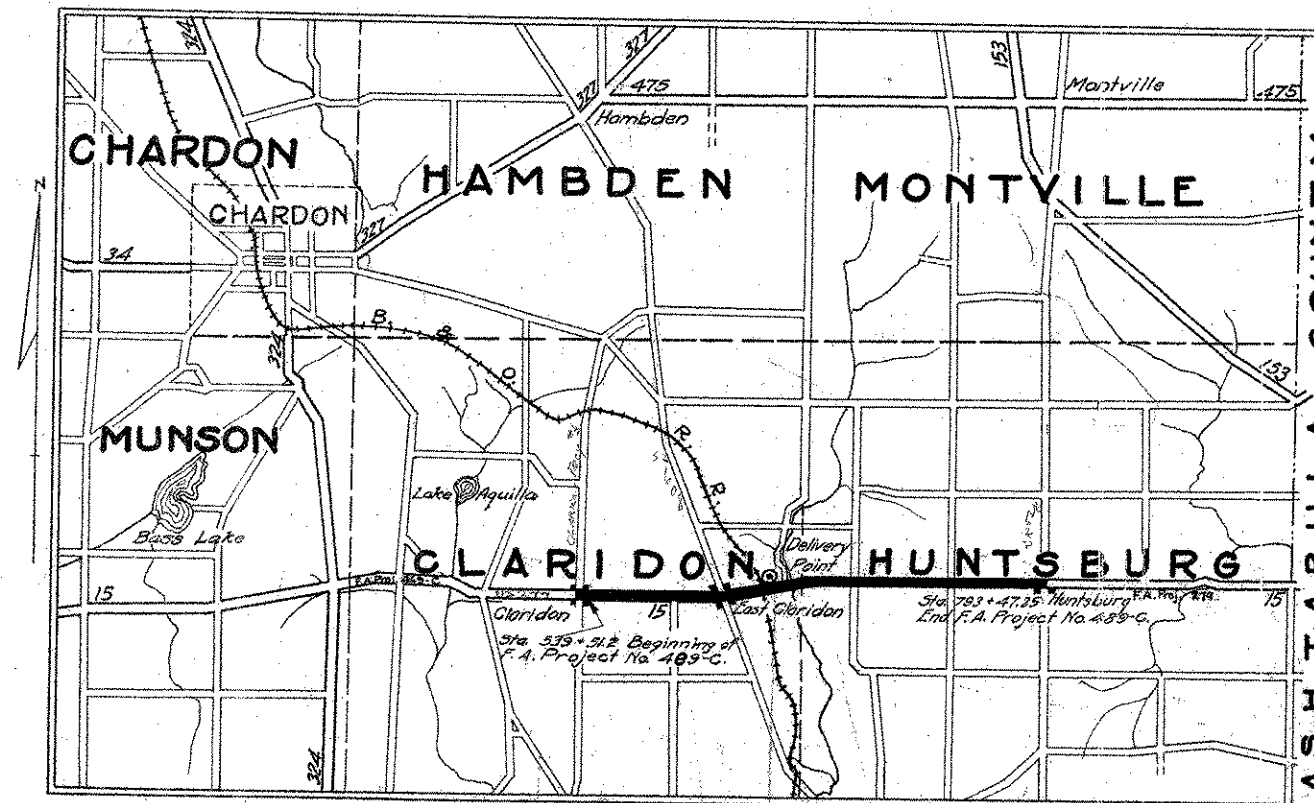
We, the Commissioners of Geauga County, hereby approve these plans and certify that the right-of-way 60 feet wide is available for the construction, maintenance and repair of the above highway.

W. H. Cornwall

N. J. Russell

J. Shatford

Date, 5-13-29 County Commissioners



LOCATION PLAN

SCALE OF MILES



PORTION TO BE IMPROVED

STATE ROADS

OTHER ROADS

SUPPLEMENTAL PRINTS OF STRUCTURAL STANDARDS

Pipe Culverts Drawing No. 300
Box Culverts Drawing No. 301
Type D Guard Rail Drawing No. 105-A
Catch Basin C.B. No. 2 Drawing No. 305

SCALES

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

INDEX OF SHEETS

Title Page P. 1
Typical Cross Sections 2
Plans and Profile 3-11
Cross Sections 12-25
Structural Plans 26-29
Summary Sheets 30-31

CONSTRUCTION BUREAU
APR 4 1929
GROUND PHOTOGRAPH

Approved: *B. P. Keeney*
Date, 5-13-29 Resident District Deputy Director.

Approved: *S. W. Leggett*
Date, 5-13-29 Resident Division Deputy Director.

Approved: *Paul S. Reighart*
Date, 6-6-29 Chief Engineer Bureau of Construction.

Approved: _____
Date, _____ Chief Engineer Bureau of Maintenance.

Approved: _____
Date, _____ Chief Engineer Bureau of Bridges.

Approved: *W. H. Russell*
Date, 6-6-29 Chief Engineer & First Asst. Director.

Approved: *Robert Mulaid*
Date, 6-6-29 Director of Highways.

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

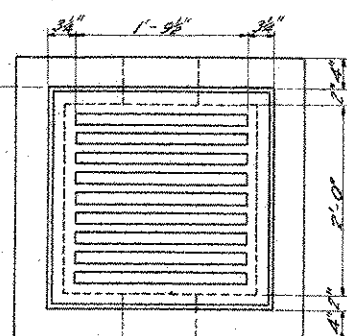
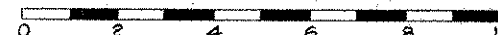
Recommended for Approval: _____
Date, _____ Chief Engineer Bureau of Public Roads.

Approved: _____
Date, _____ Chief of Bureau.

S.H. (I.C.H.) 15 SEC. J. K.
GEAUGA COUNTY.

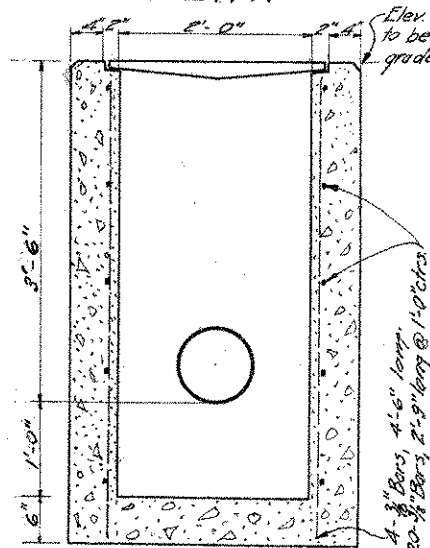
TYPICAL SECTIONS

SCALE IN FEET

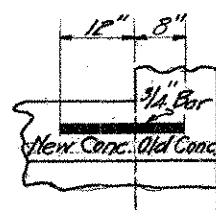


Note: Standard except omit side inlets.

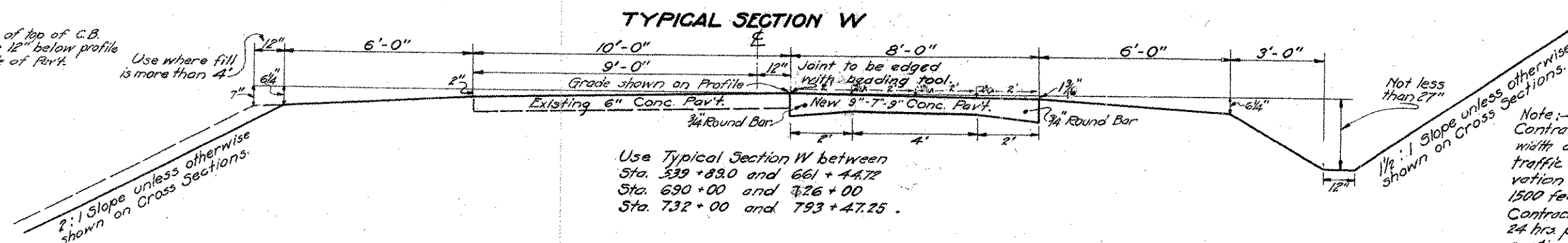
PLAN



CROSS SECTION
CATCH BASIN
(No. 2 C.B.)
6 Reg'd. Complete.

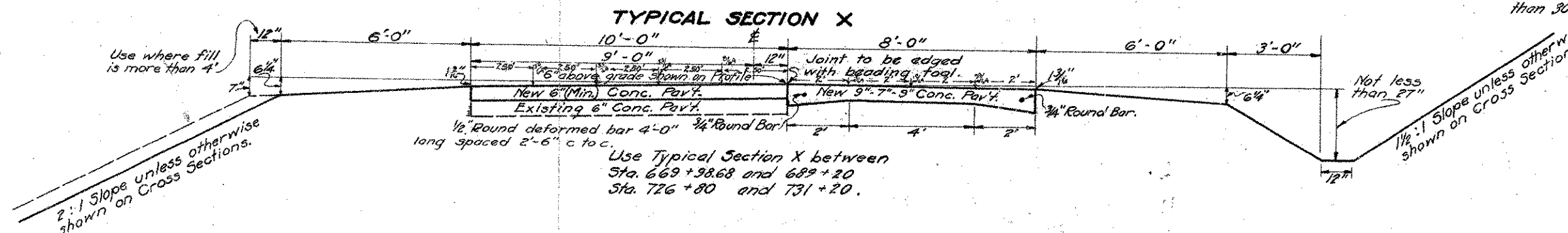


DETAIL OF DOWELS
FOR
CULVERT EXTENSIONS
WHERE SHOWN.



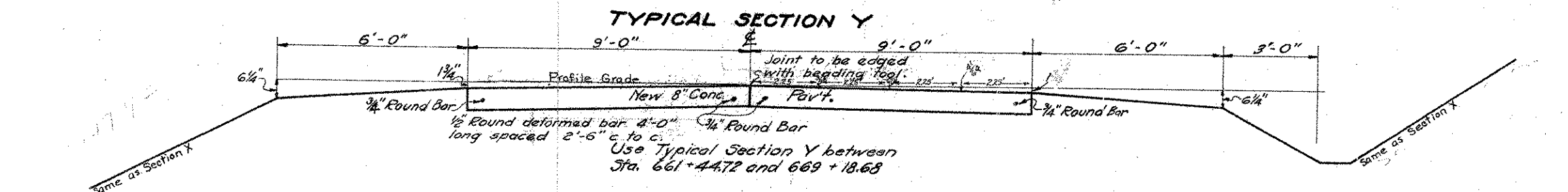
TYPICAL SECTION W

Use Typical Section W between
Sta. 539 + 89.0 and 661 + 44.72
Sta. 690 + 00 and 726 + 00
Sta. 732 + 00 and 793 + 47.25.



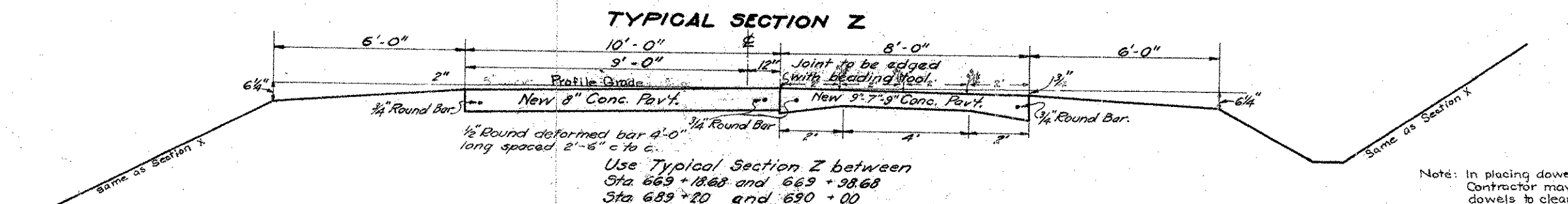
TYPICAL SECTION X

Use Typical Section X between
Sta. 669 + 98.68 and 689 + 20
Sta. 726 + 80 and 731 + 20.



TYPICAL SECTION Y

Use Typical Section Y between
Sta. 661 + 44.72 and 669 + 18.68

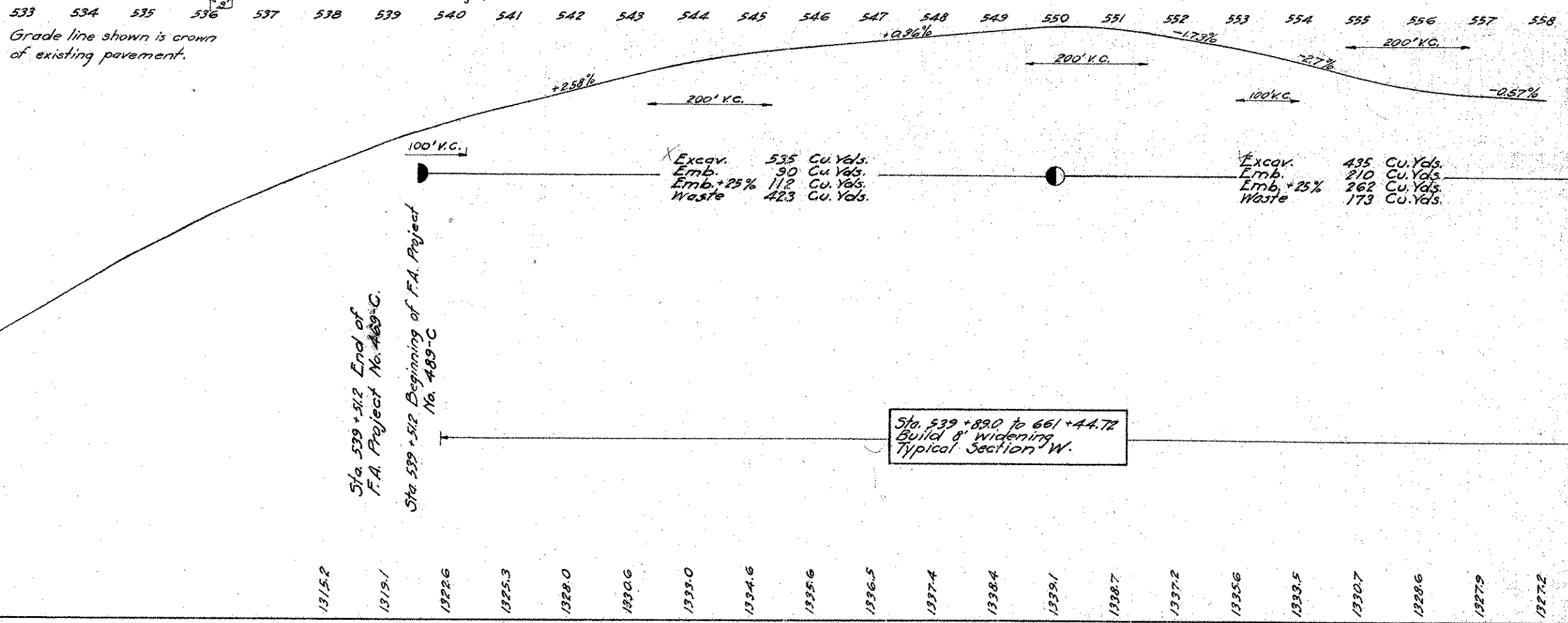
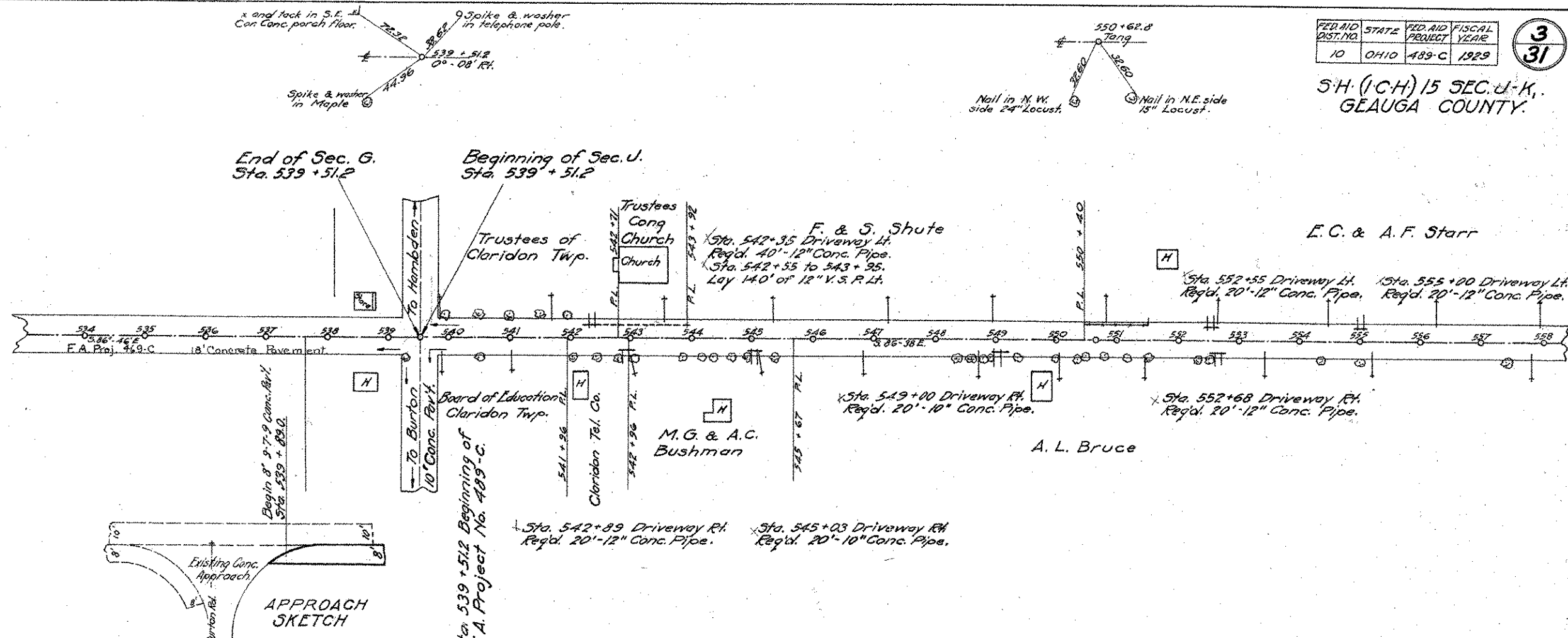


TYPICAL SECTION Z

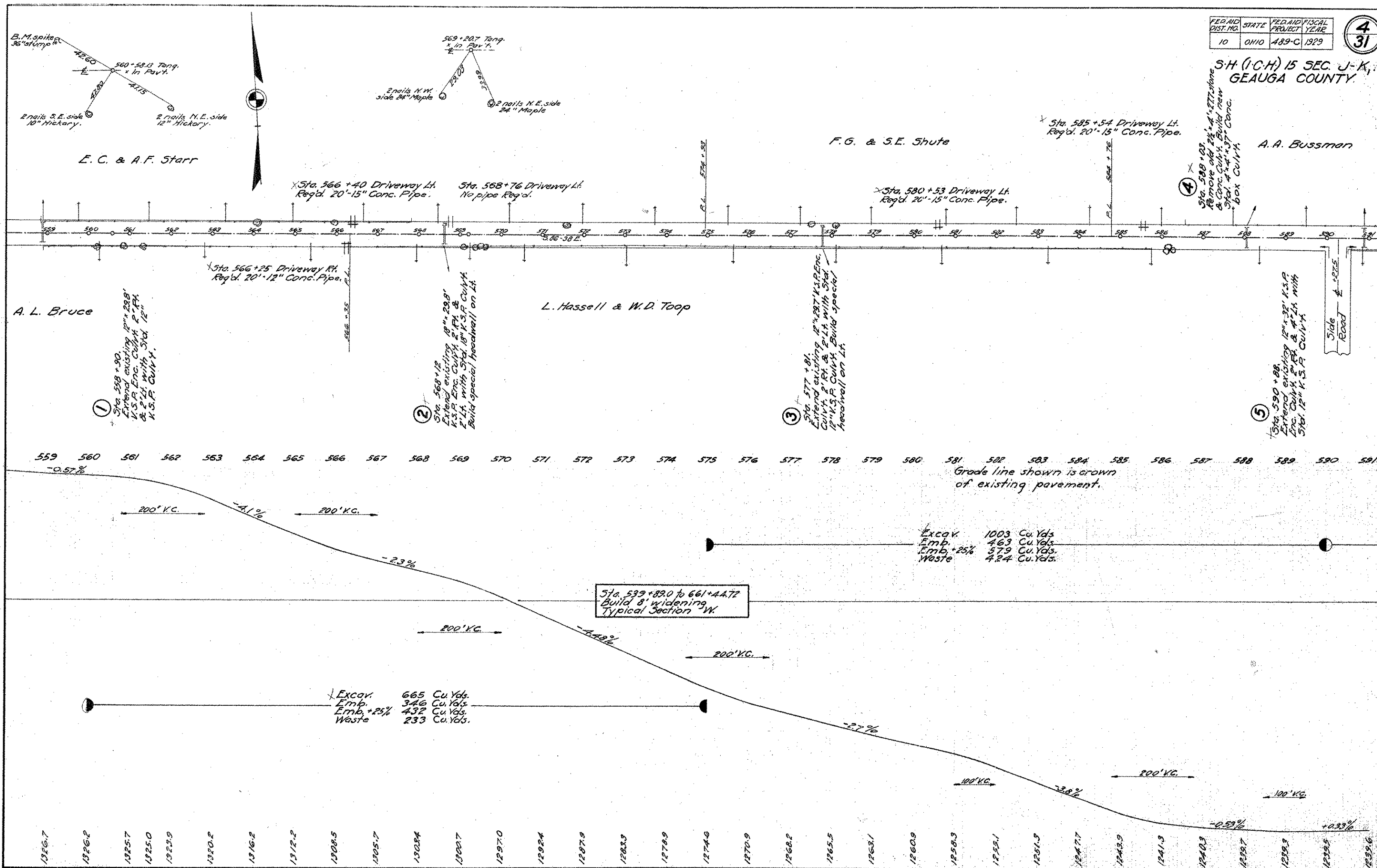
Use Typical Section Z between
Sta. 669 + 18.68 and 669 + 98.68
Sta. 689 + 20 and 690 + 00
Sta. 726 + 00 and 726 + 80
Sta. 731 + 20 and 732 + 00.

Note: In placing dowels along longitudinal joint the Contractor may use steel joint No. 100 bending dowels to clear metal forms and afterward salvaging the metal forms at his option or He may use plank forms through which holes are bored and then remove plank after concrete is set.

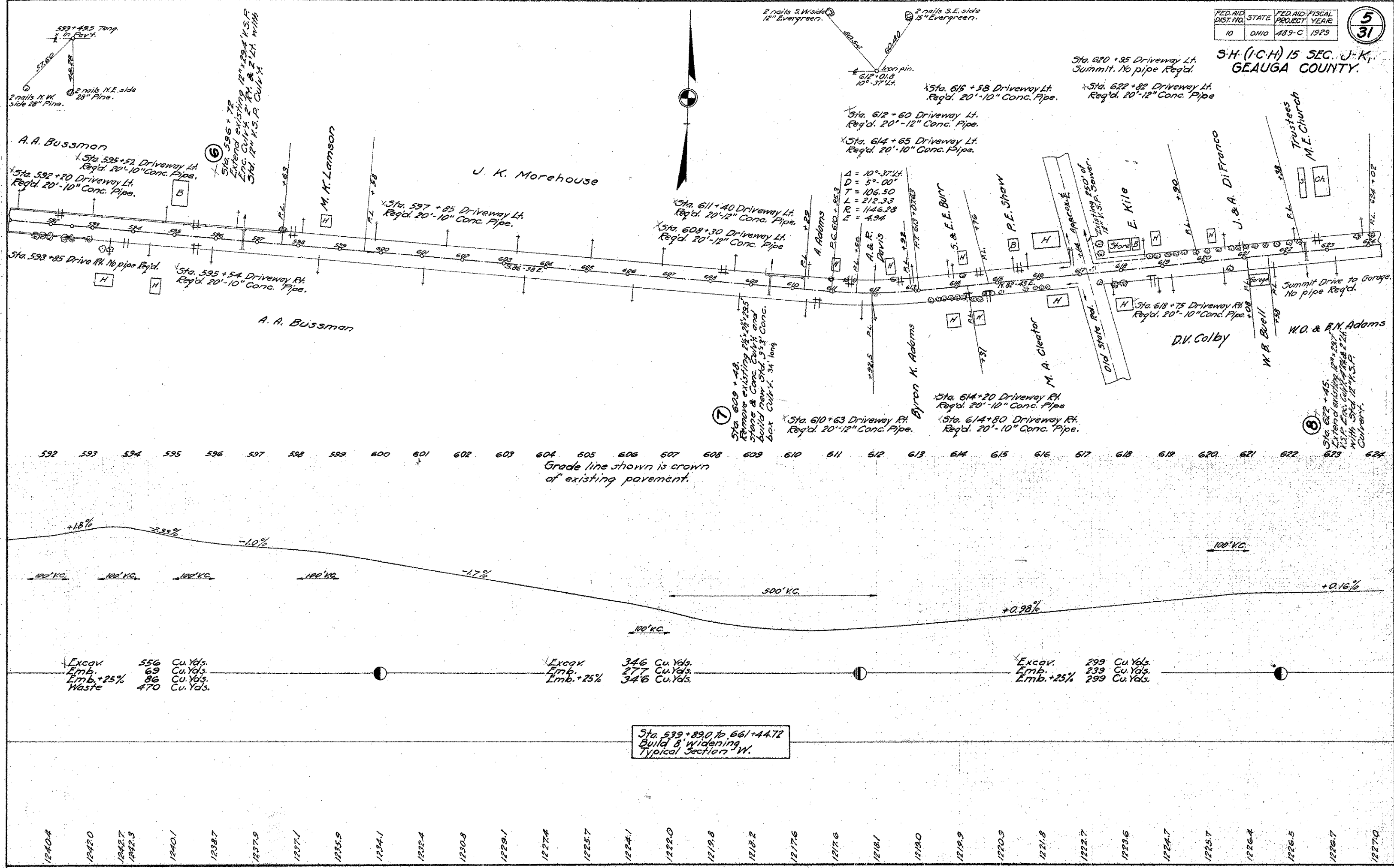
S.H. (I.C.H.) 15 SEC. U-K.
GEAUGA COUNTY.



S.H. (I.C.H.) 15 SEC. J-K,
GEAUGA COUNTY



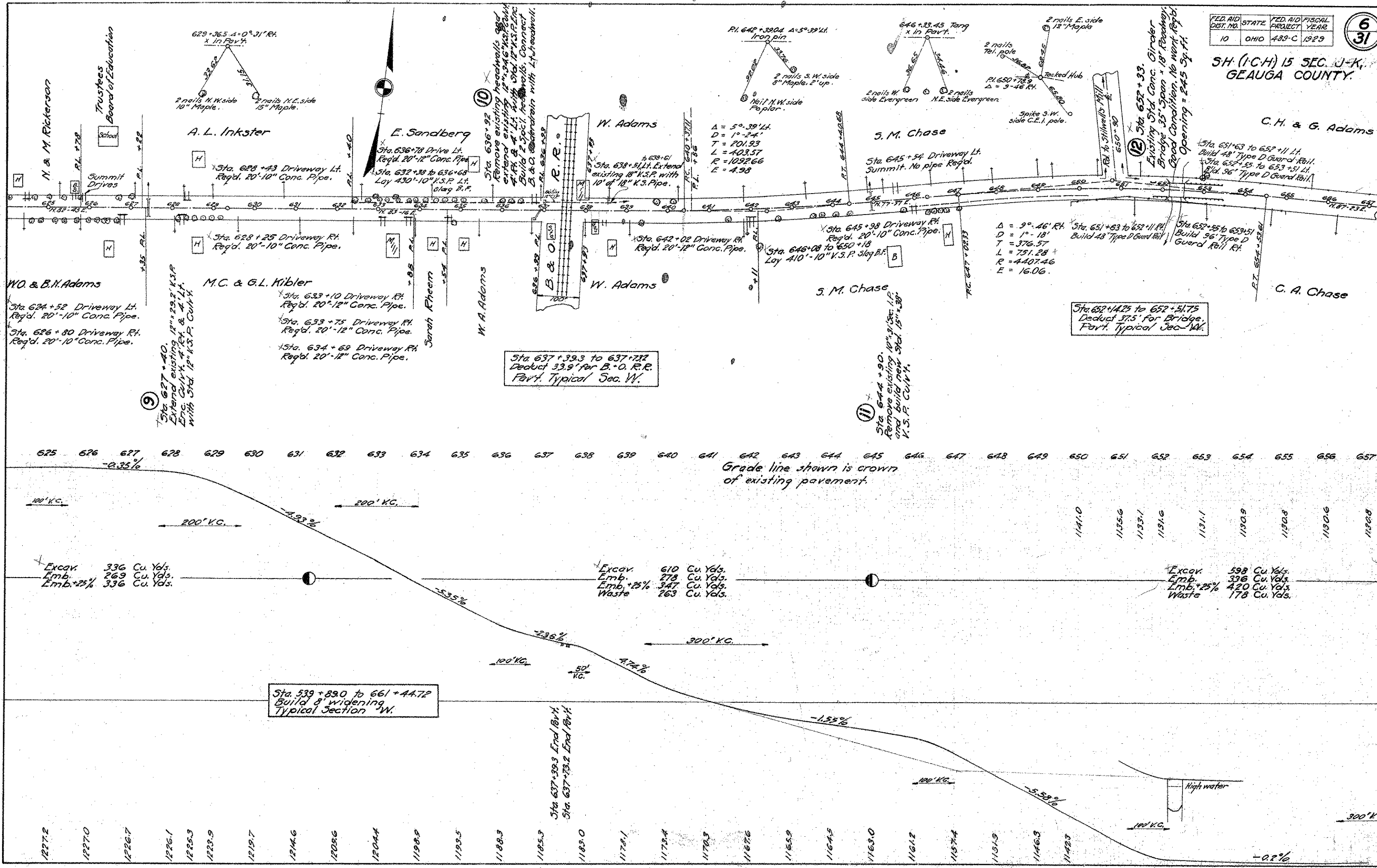
S.H. (I.C.H.) 15 SEC. J-K, GEauga COUNTY.



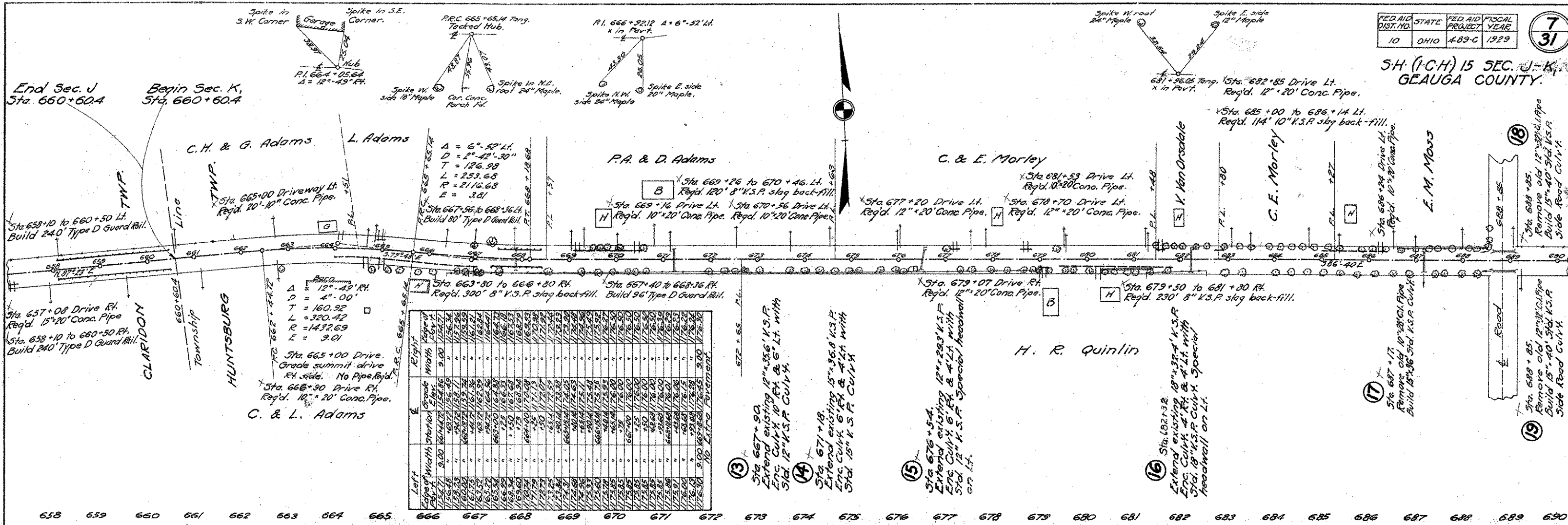
FED. AID DIST. NO.	STATE	FED. AID FISCAL YEAR
10	OHIO	489-C 1929

6
31

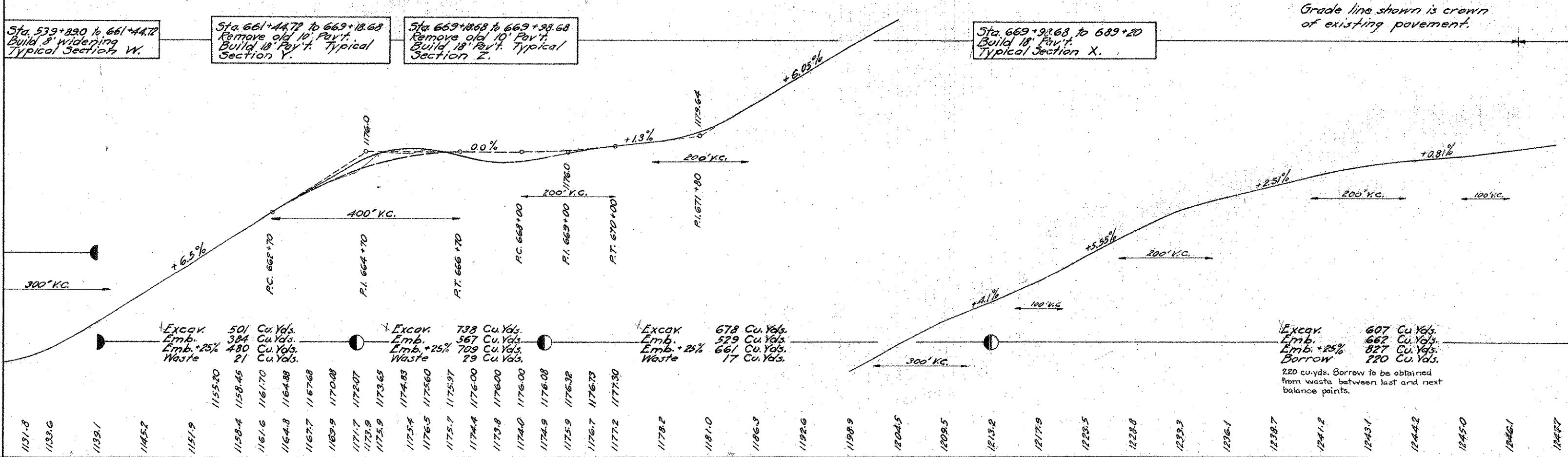
SH (I.C.H.) 15 SEC. 10-K,
GEAUGA COUNTY.

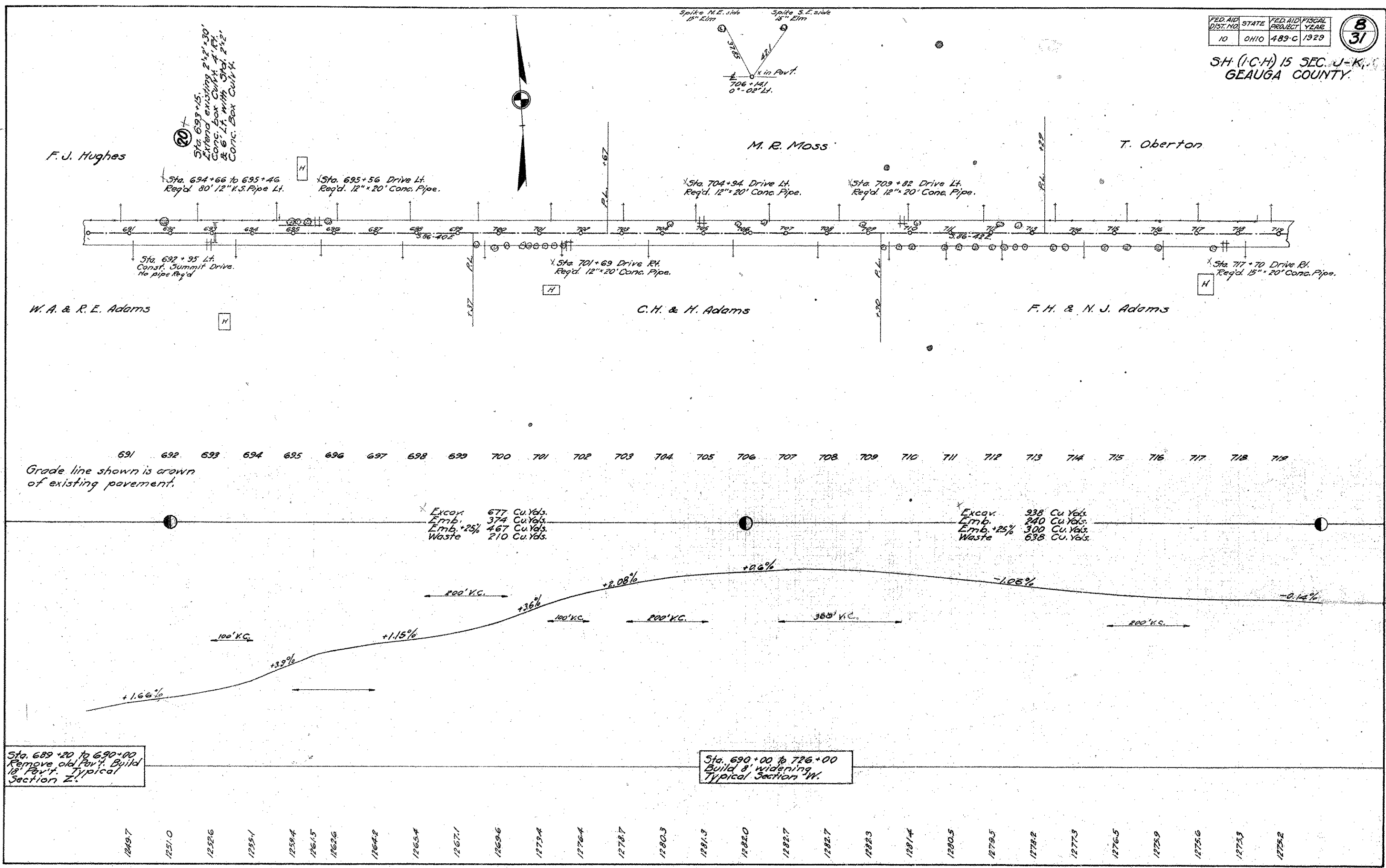


**SH. (I.C.H.) 15 SEC. J-K
GEAUGA COUNTY.**

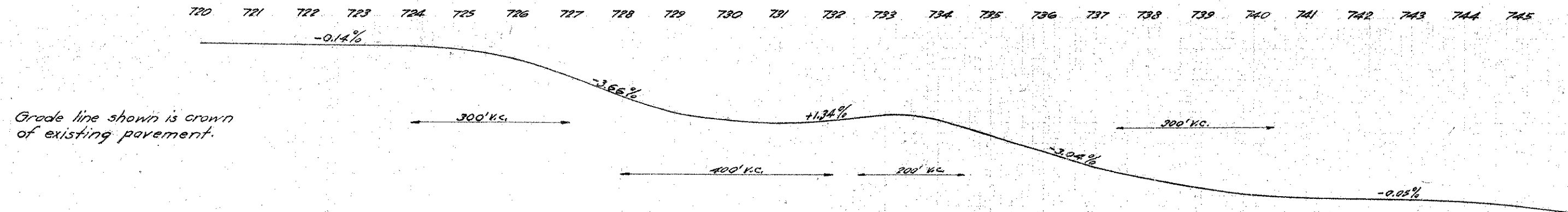
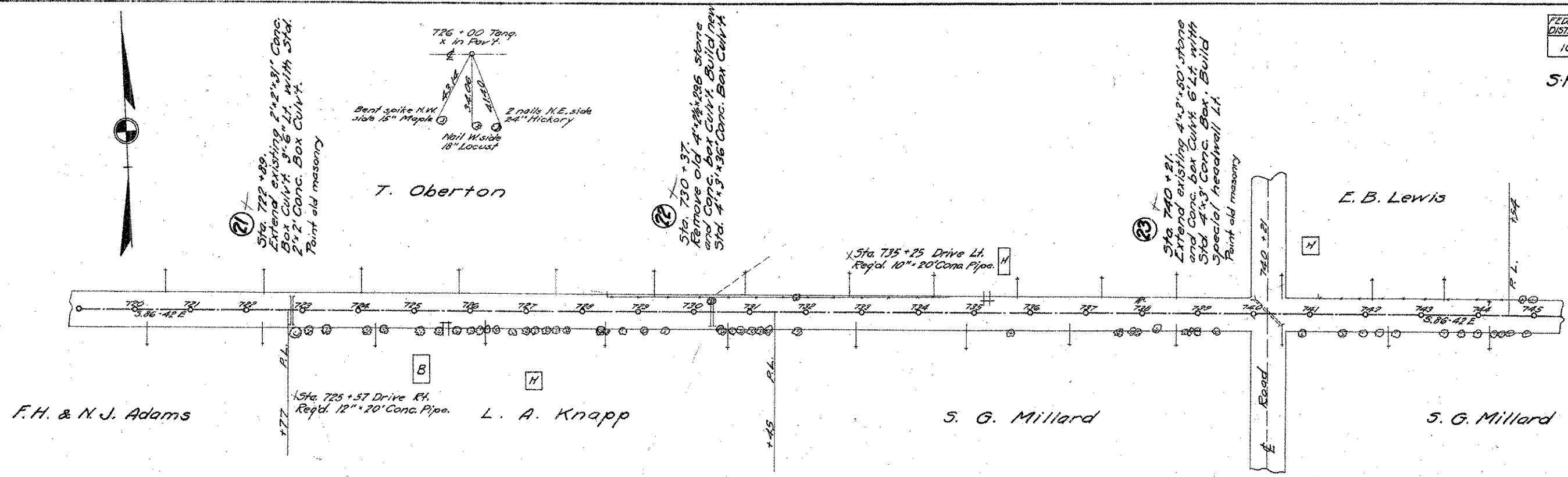


Station	Left	Right	Width	Station	Left	Right	Width
658.0	1173.64	1173.64	9.00	666.0	1173.64	1173.64	9.00
659.0	1173.64	1173.64	9.00	667.0	1173.64	1173.64	9.00
660.0	1173.64	1173.64	9.00	668.0	1173.64	1173.64	9.00
661.0	1173.64	1173.64	9.00	669.0	1173.64	1173.64	9.00
662.0	1173.64	1173.64	9.00	670.0	1173.64	1173.64	9.00
663.0	1173.64	1173.64	9.00	671.0	1173.64	1173.64	9.00
664.0	1173.64	1173.64	9.00	672.0	1173.64	1173.64	9.00
665.0	1173.64	1173.64	9.00	673.0	1173.64	1173.64	9.00
666.0	1173.64	1173.64	9.00	674.0	1173.64	1173.64	9.00
667.0	1173.64	1173.64	9.00	675.0	1173.64	1173.64	9.00
668.0	1173.64	1173.64	9.00	676.0	1173.64	1173.64	9.00
669.0	1173.64	1173.64	9.00	677.0	1173.64	1173.64	9.00
670.0	1173.64	1173.64	9.00	678.0	1173.64	1173.64	9.00
671.0	1173.64	1173.64	9.00	679.0	1173.64	1173.64	9.00
672.0	1173.64	1173.64	9.00	680.0	1173.64	1173.64	9.00
673.0	1173.64	1173.64	9.00	681.0	1173.64	1173.64	9.00
674.0	1173.64	1173.64	9.00	682.0	1173.64	1173.64	9.00
675.0	1173.64	1173.64	9.00	683.0	1173.64	1173.64	9.00
676.0	1173.64	1173.64	9.00	684.0	1173.64	1173.64	9.00
677.0	1173.64	1173.64	9.00	685.0	1173.64	1173.64	9.00
678.0	1173.64	1173.64	9.00	686.0	1173.64	1173.64	9.00
679.0	1173.64	1173.64	9.00	687.0	1173.64	1173.64	9.00
680.0	1173.64	1173.64	9.00	688.0	1173.64	1173.64	9.00
681.0	1173.64	1173.64	9.00	689.0	1173.64	1173.64	9.00
682.0	1173.64	1173.64	9.00	690.0	1173.64	1173.64	9.00





S.H. (I.C.H.) 15 SEC. J-K,
GEAUGA COUNTY.



Grade line shown is crown of existing pavement.

Excav.	1114	Cu. Yds.	Excav.	1157	Cu. Yds.
Emb.	398	Cu. Yds.	Emb.	375	Cu. Yds.
Emb. +25%	497	Cu. Yds.	Emb. +25%	469	Cu. Yds.
Waste	617	Cu. Yds.	Waste	608	Cu. Yds.

Sta. 726+00 to 726+80
Remove old Pav't. Build 18' Pav't. Typical Section Z

Sta. 726+80 to 731+20
Build 18' Pav't. Typical Section X

Sta. 731+20 to 732+00
Remove old Pav't. Build 18' Pav't. Typical Section Z.

Sta. 732+00 to 733+47.25
Build 8' widening. Typical Section W.

1274.8 1274.6 1274.5 1274.5 1274.2 1273.6 1271.8 1268.5 1264.9 1261.8 1260.3 1259.9 1260.4 1261.4 1261.4 1260.5 1257.7 1254.3 1251.3 1249.2 1247.5 1246.9 1245.8 1245.6 1245.3 1244.9 1244.1

5H (I.C.H.) 15 SEC. J.K.
GEAUGA COUNTY.

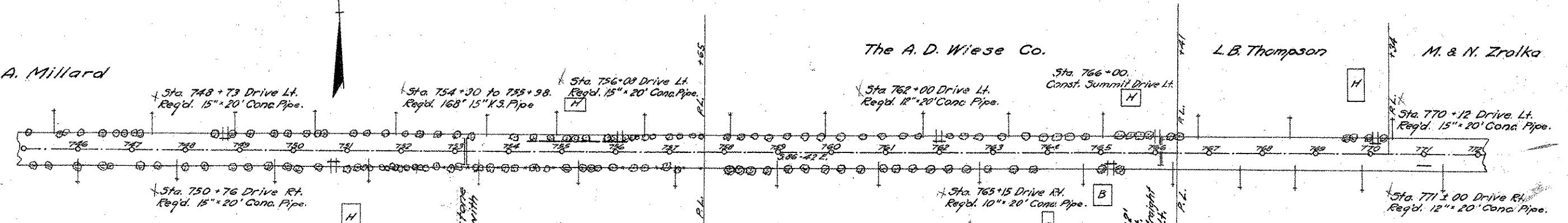
S. A. Millard

S. G. Millard

The A. D. Wiese Co.

L. B. Thompson

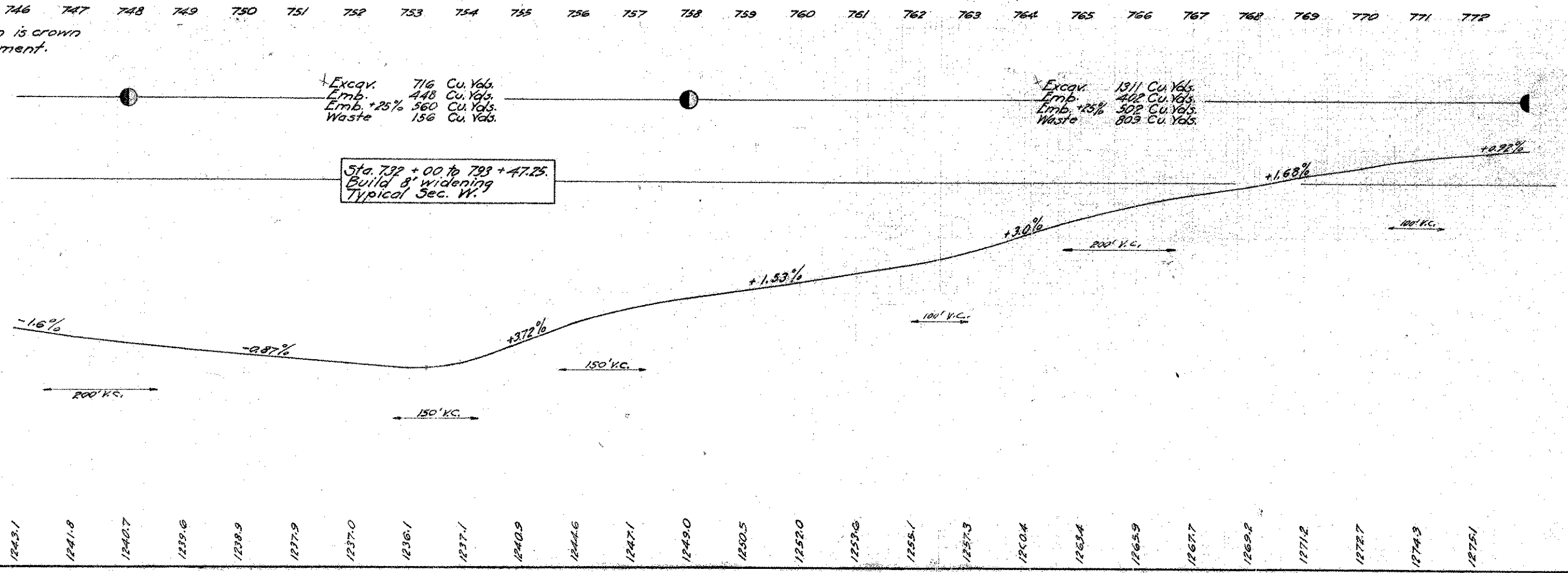
M. & N. Zralka



Sta. 753+20
Extend existing 4' x 3' stone
culvert 4' x 4' and 4' x 4' with
slab top culvert.
S=4, H=5.
Total length 38'.
24-A
Sta. 753+35
Build 30" x 40" V.S.P. culv.

Sta. 766+12
Extend existing 18" x 22" V.S.P. culvert 4' x 4' and 4' x 4' with slab top culvert. 3' straight with 30" x 40" V.S.P. culvert. 1' side Rd. Hbwy Lt.

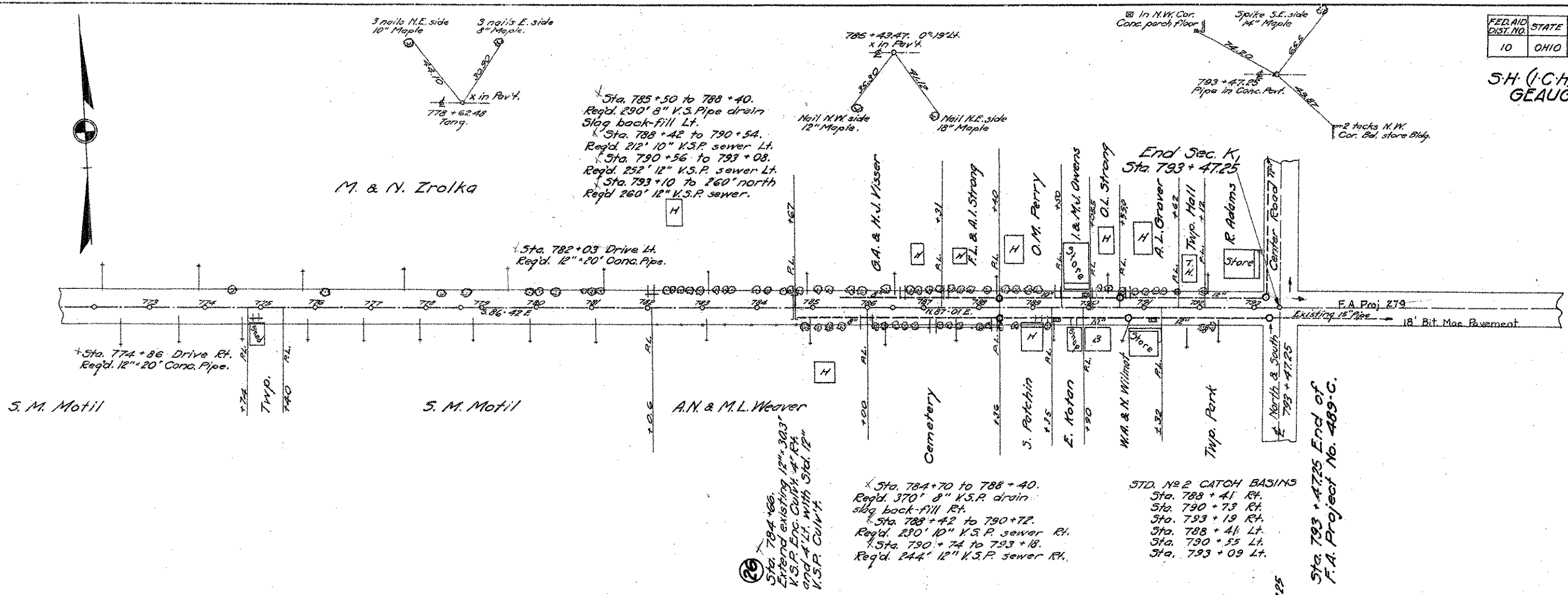
Grade line shown is crown of existing pavement.



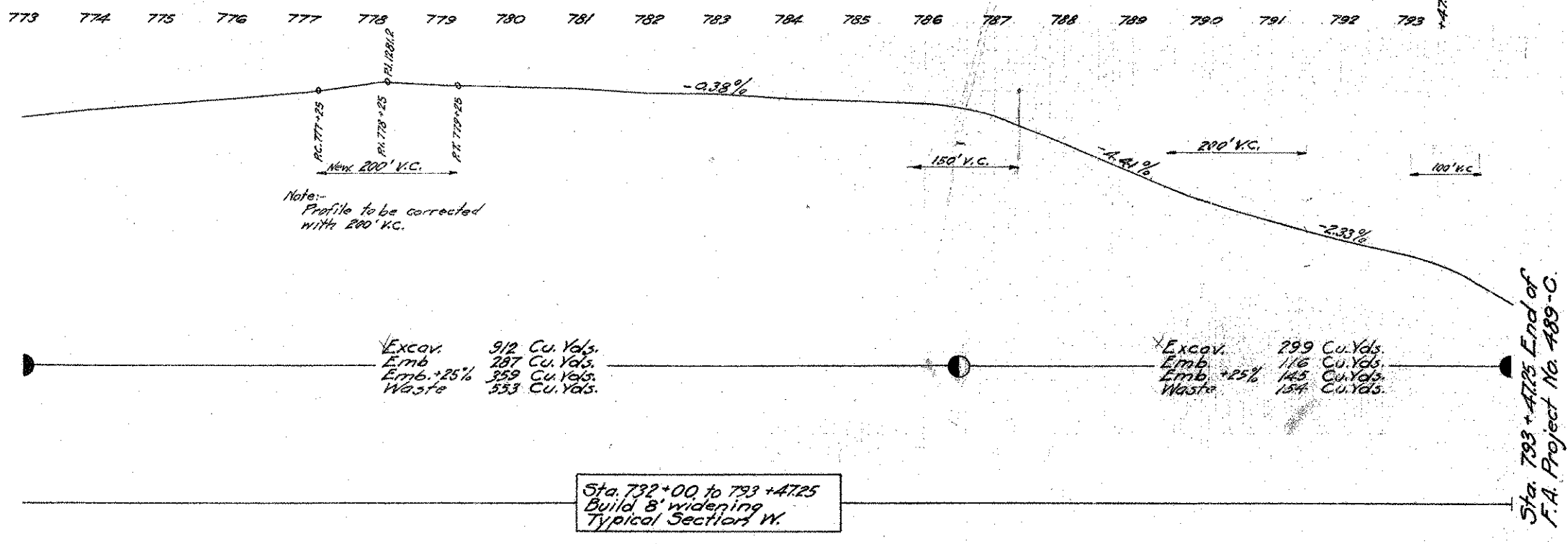
FED. AID DIST. NO.	STATE	FED. AID PROJECT YEAR
10	OHIO	489-C 1929

11
31

S.H. (I.C.H.) 15 SEC. J. K.
GEAUGA COUNTY.



Grade line shown is crown of existing pavement.



1276.0 1277.1 1277.9 1278.7 1279.6 1281.0 1281.1 1280.9 1280.8 1280.9 1279.8 1279.6 1278.9 1278.5 1278.2 1277.7 1276.4 1272.2 1268.1 1264.1 1261.1 1258.4 1256.1 1254.9 1252.2

30 25 20 15 10 5 E 3 10 15 20 25 30

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill

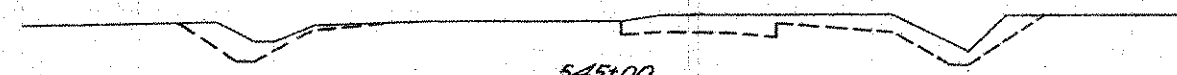
30 25 20 15 10 5 E 3 10 15 20 25

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
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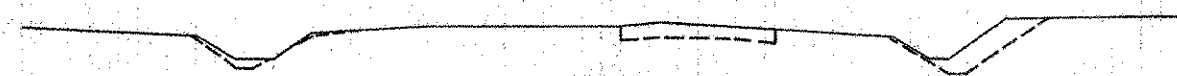
12
31

S.H. (I.C.H.) 15 SEC. J-K,
GEAUGA COUNTY.

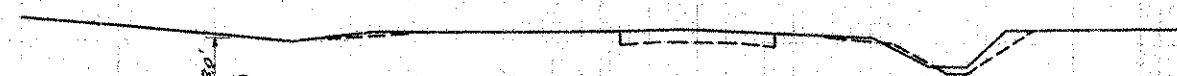
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill



545+00
1334.6



544+00
1333.0



543+00
1330.6



542+00
1328.0



541+00
1325.3



540+00
1322.6



539+00
1319.1

26 0

69 0

11 0

39 0

10 0

41 11

12 6

32 28

5 9

22 24

7 4

24 6

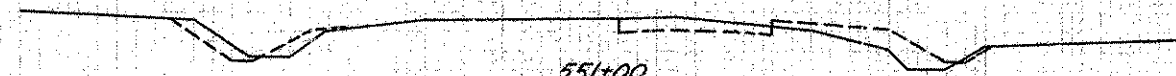
50 13

26 7

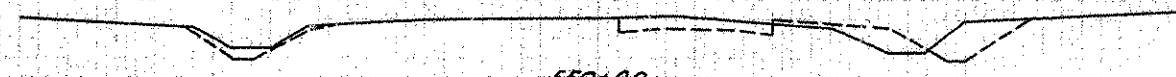
20 3

535 Cu. Yds.
90 Cu. Yds.
112 Cu. Yds.
429 Cu. Yds.
Excav.
Emb.
+25%
Waste

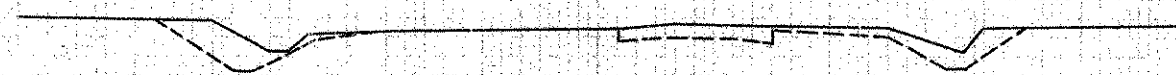
539+512
Begin Sec. J.



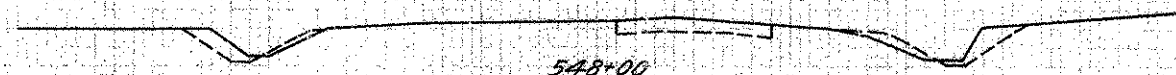
551+00
1338.7



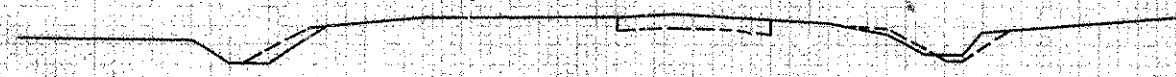
550+00
1339.1



549+00
1338.4



548+00
1337.4



547+00
1336.5



546+00
1335.6

8 9

37 26

12 5

72 9

27 0

69 2

10 1

32 6

7 2

50 4

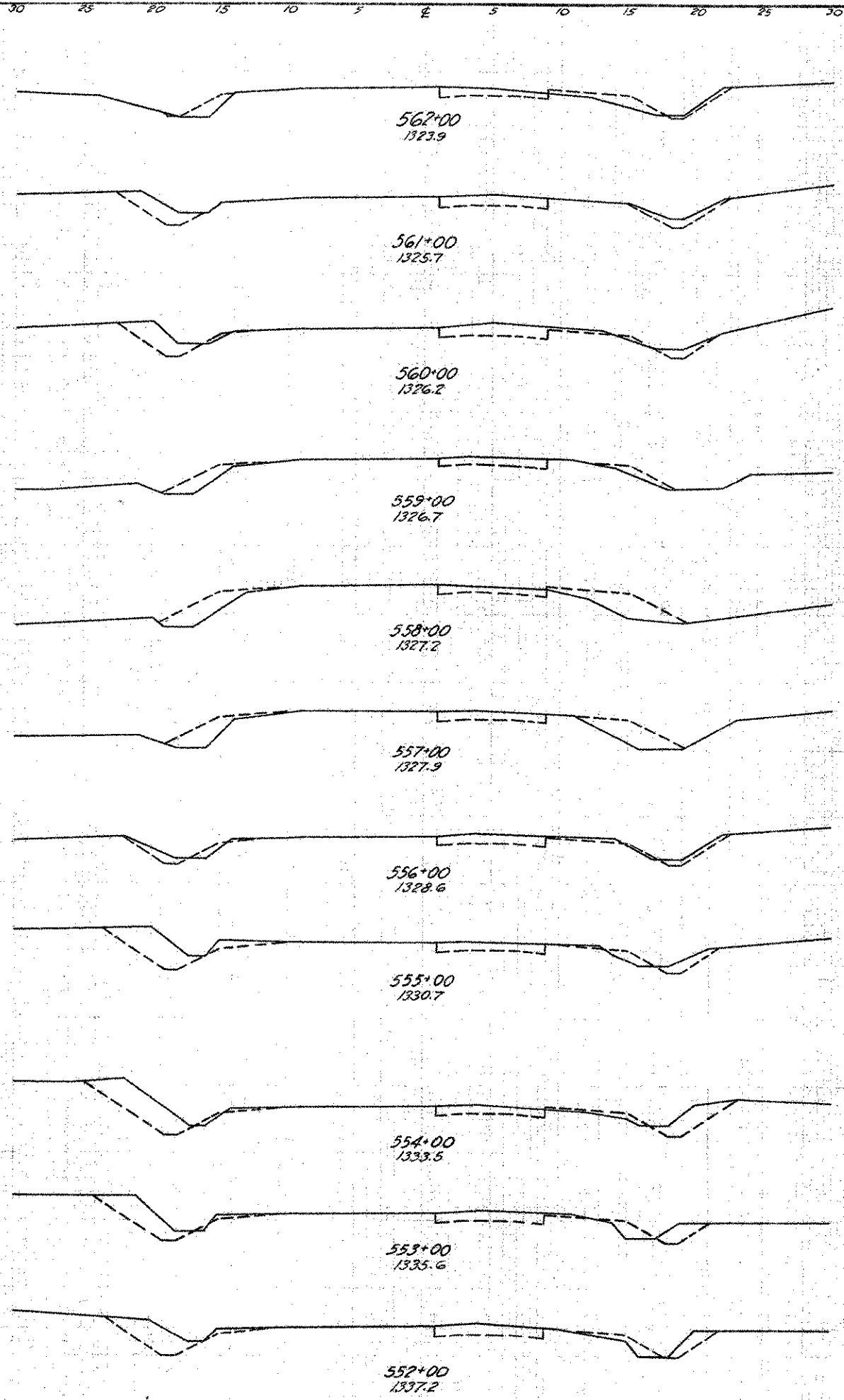
20 0

85 0

550+00

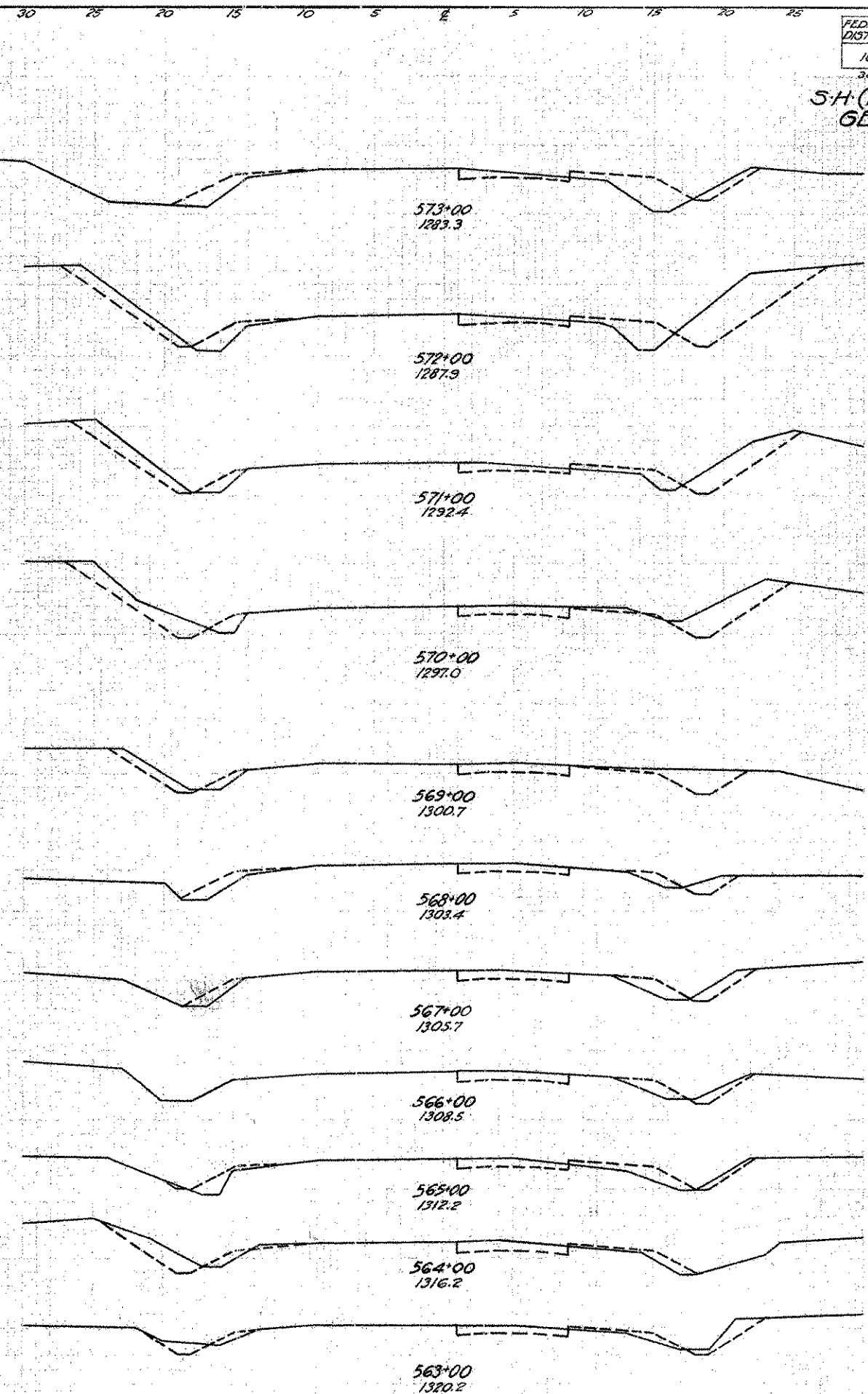
Sta. 539+512 to 551+00.

54 (1-C.H.) 15 SEC. J. K.
GEAUGA COUNTY.



End Area Cu Yds.			
Cut	Fill	Cut	Fill
5	6		
14	0		
15	0		
4	6		
3	16		
5	14		
9	1		
19	2		
22	1		
18	3		
16	2		

Excav. 435
Emb. 210
Limb. 262
Waste 173

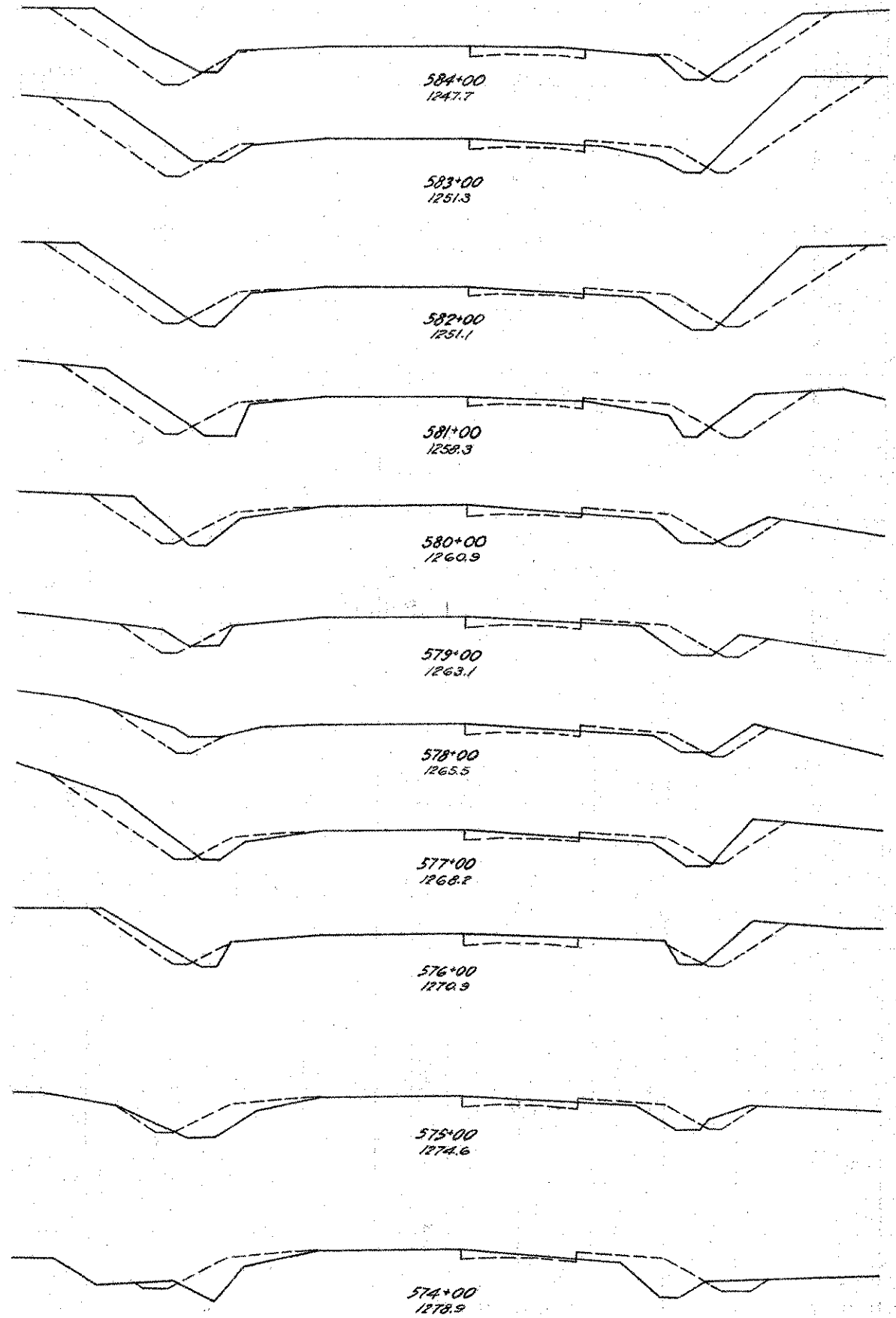


End Area Cu Yds.			
Cut	Fill	Cut	Fill
5	15		
29	11		
21	6		
26	2		
17	1		
6	6		
7	6		
7	2		
5	7		
11	3		
10	2		

Excav. 665
Emb. 346
Limb. 432
Waste 233

Sta. 552+00 to 573+00

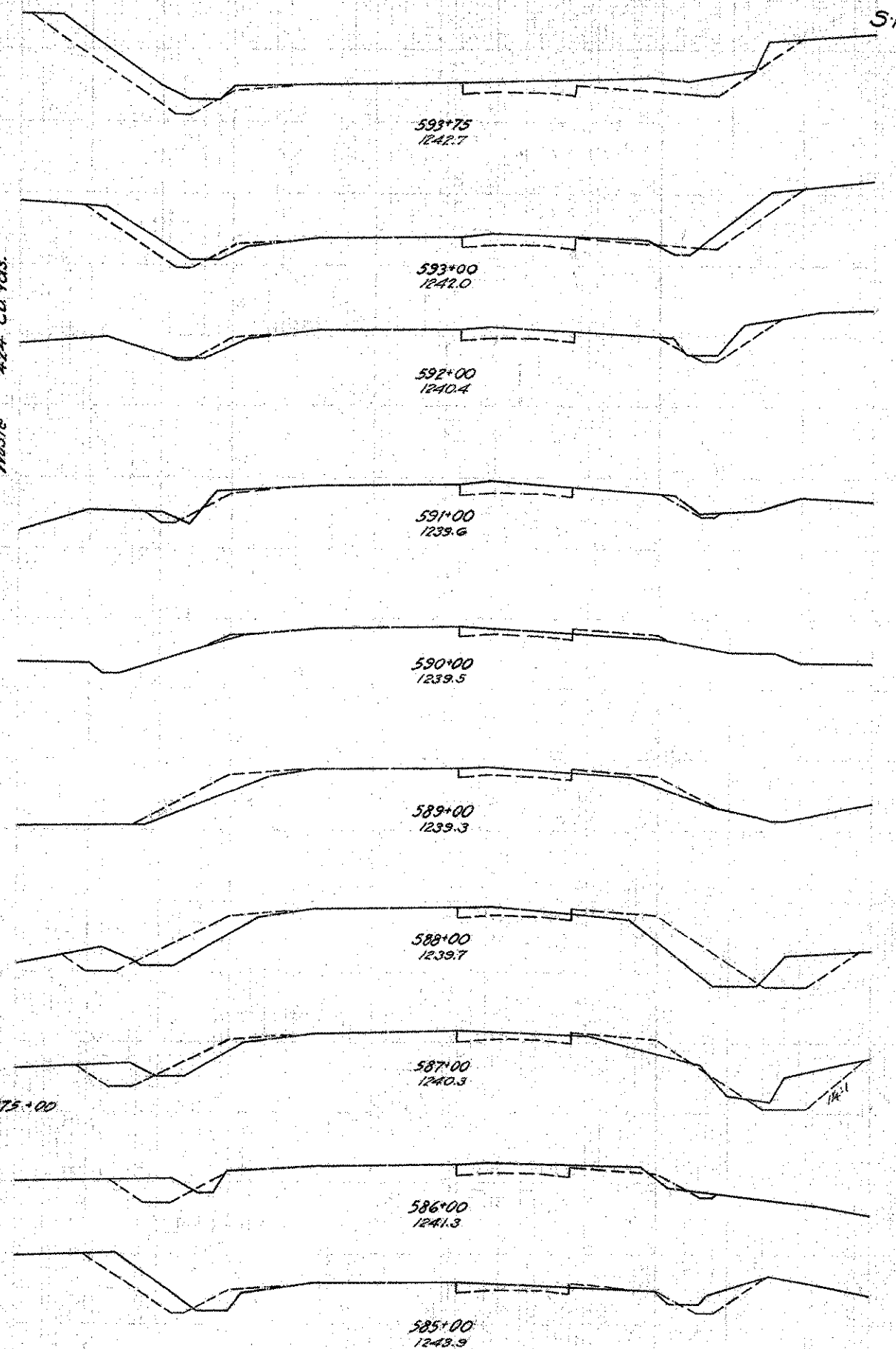
30 25 20 15 10 5 4 5 10 15 20 25 30



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
19	3	115	9
43	7	139	35
32	12	104	43
24	11	70	41
14	11	46	33
11	7	44	20
13	4	59	24
19	9	63	20
15	2	41	26
7	12	22	59
5	20	19	65

Excav. 1003
Empl. 463
Emb. 25% 579
Waste 424

30 25 20 15 10 5 4 5 10 15 20 25 30



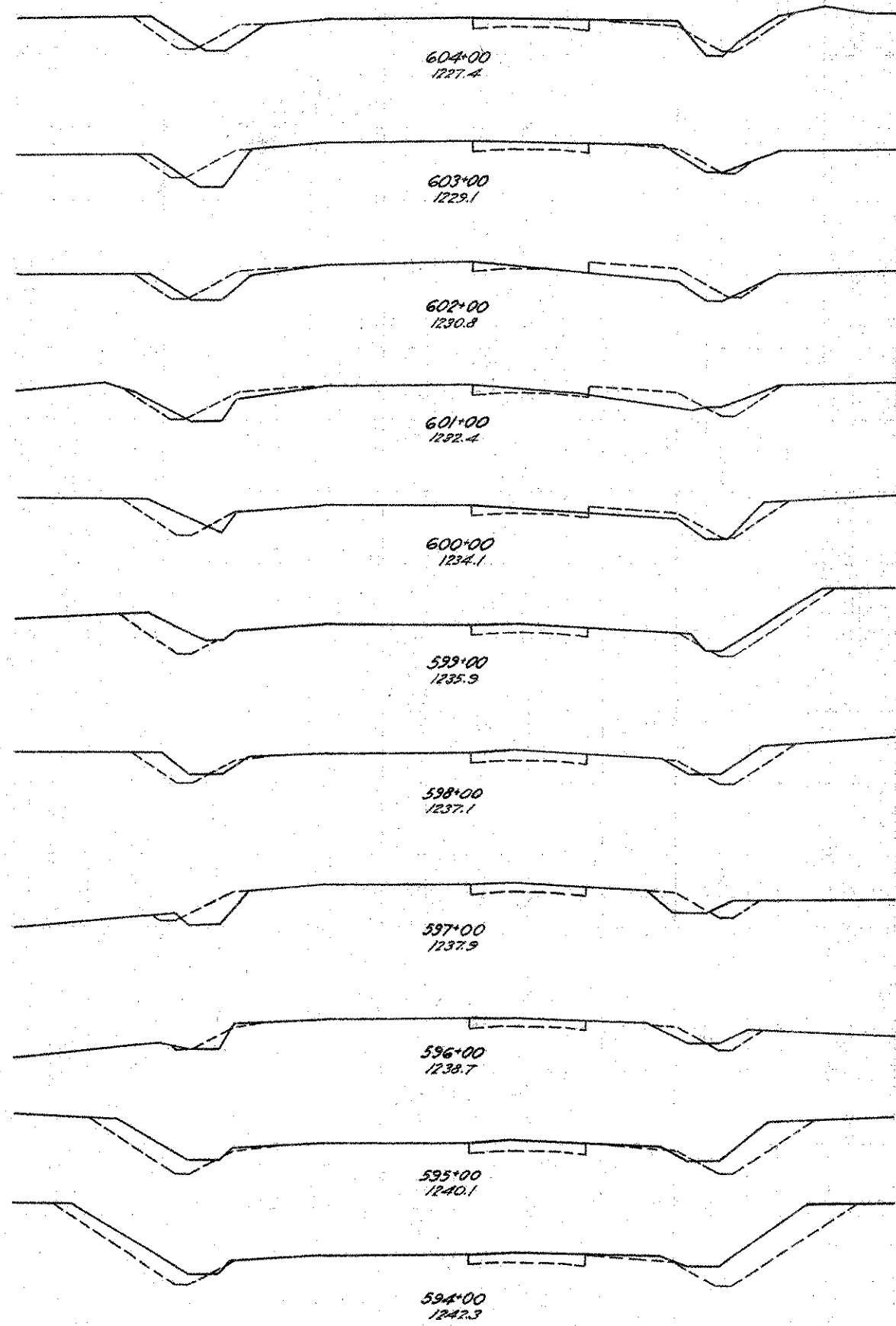
FED. AID DIST. NO.	STATE	FED. AID PROJECT YEAR
10	OHIO	489-C 1929

S.H. (I.C.H.) 15 SEC. J.K.
GEAUGA COUNTY

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
34	0	75	3
20	2	54	6
9	1	32	2
8	0	22	4
4	2	15	26
4	12	43	69
19	25	76	63
22	9	65	20
13	2	56	11
17	4	67	13

Sta. 574+00 to 593+75

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



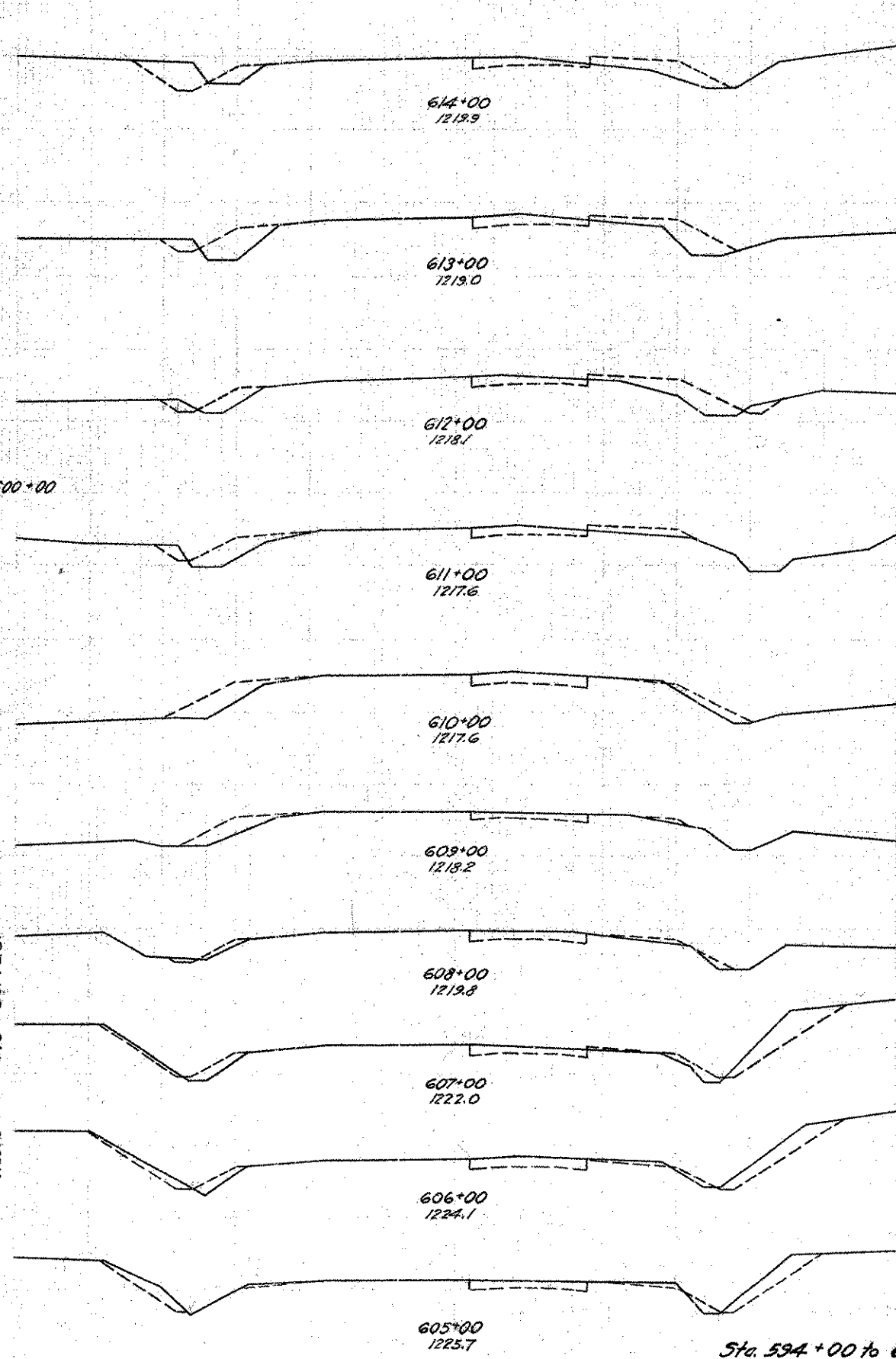
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
8	4	24	19
5	6	13	35
2	13	15	44
6	11	30	30
10	5	48	9
16	0	56	2
14	1	41	17
8	8	28	20
7	3	57	6
24	0	111	0
36	0	32	0

Excav.
Embl.
Embl. + 25%
Waste

356
69
86
470

Cu. Yds.
Cu. Yds.
Cu. Yds.
Cu. Yds.

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



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GEAUGA COUNTY

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
10	11	30	46
6	14	22	50
6	13	9	16
		22	39
		13	23
6	8	22	35
6	11	19	30
4	5	17	15
5	3	37	15
15	5	59	17
17	4	56	7
14	0	41	7

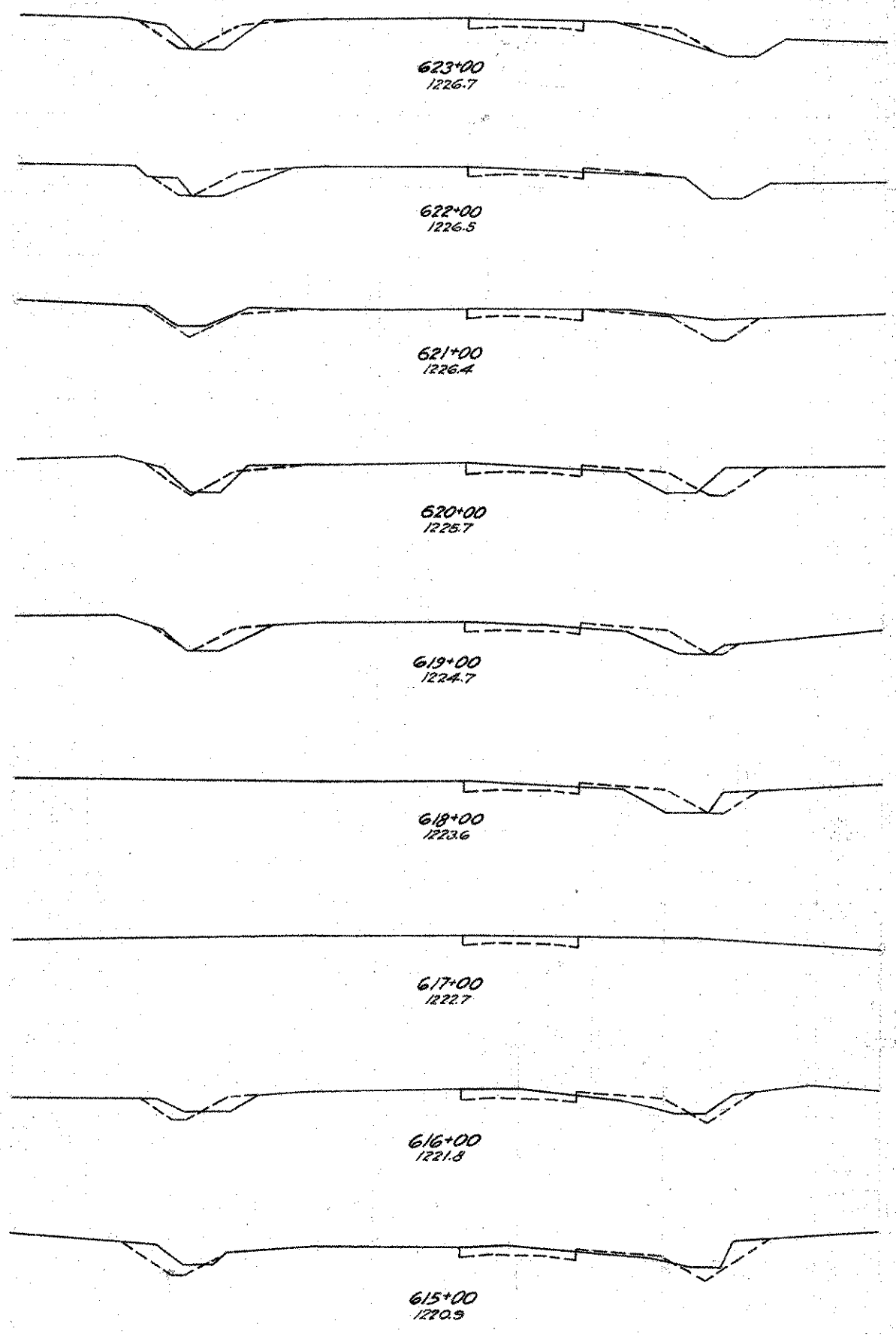
Excav.
Embl.
Embl. + 25%
Waste

346
277
346

Cu. Yds.
Cu. Yds.
Cu. Yds.

Sta. 594+00 to 614+00.

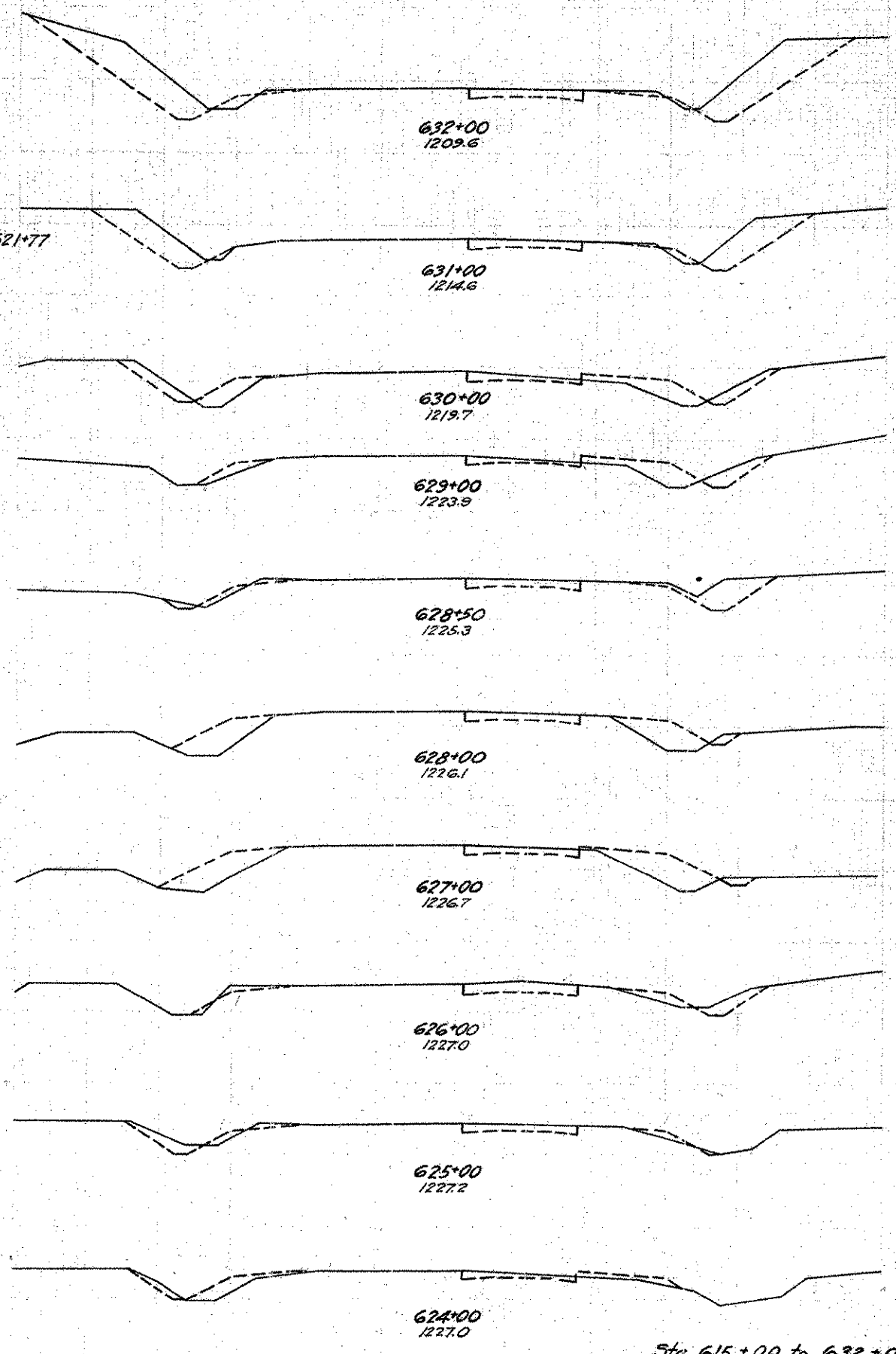
30 25 20 15 10 5 E 5 10 15 20 25 30



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
6	6		
		20	20
5	5		
		8	2
		33	9
		25	7
13	0		
		43	11
10	6		
		28	28
5	9		
		22	26
7	5		
		20	9
4	0		
		22	11
8	6		
		37	13
12	1		
		41	22

Excav. 299 Cu Yds.
Emb. 299 Cu Yds.
Emb. +25% 299 Cu Yds.

30 25 20 15 10 5 E 5 10 15 20 25 30



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	489-C	1929

54 (I.C.H.) 15 SEC. J. K.
GEAUGA COUNTY

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
49	1		
		92	2
		146	4
		54	2
30	1		
		74	24
10	12		
		30	39
6	9		
		19	9
14	1		
		17	15
5	15		
		19	67
5	21		
		26	43
9	2		
		30	7
7	2		
		20	17
4	7		
		19	24

Excav. 376 Cu Yds.
Emb. 376 Cu Yds.
Emb. +25% 376 Cu Yds.

Sta. 615+00 to 632+00.

631+37

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

End Area
Cut Fill
Cu. Yds.

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

FED. AID
DIST. NO.
10

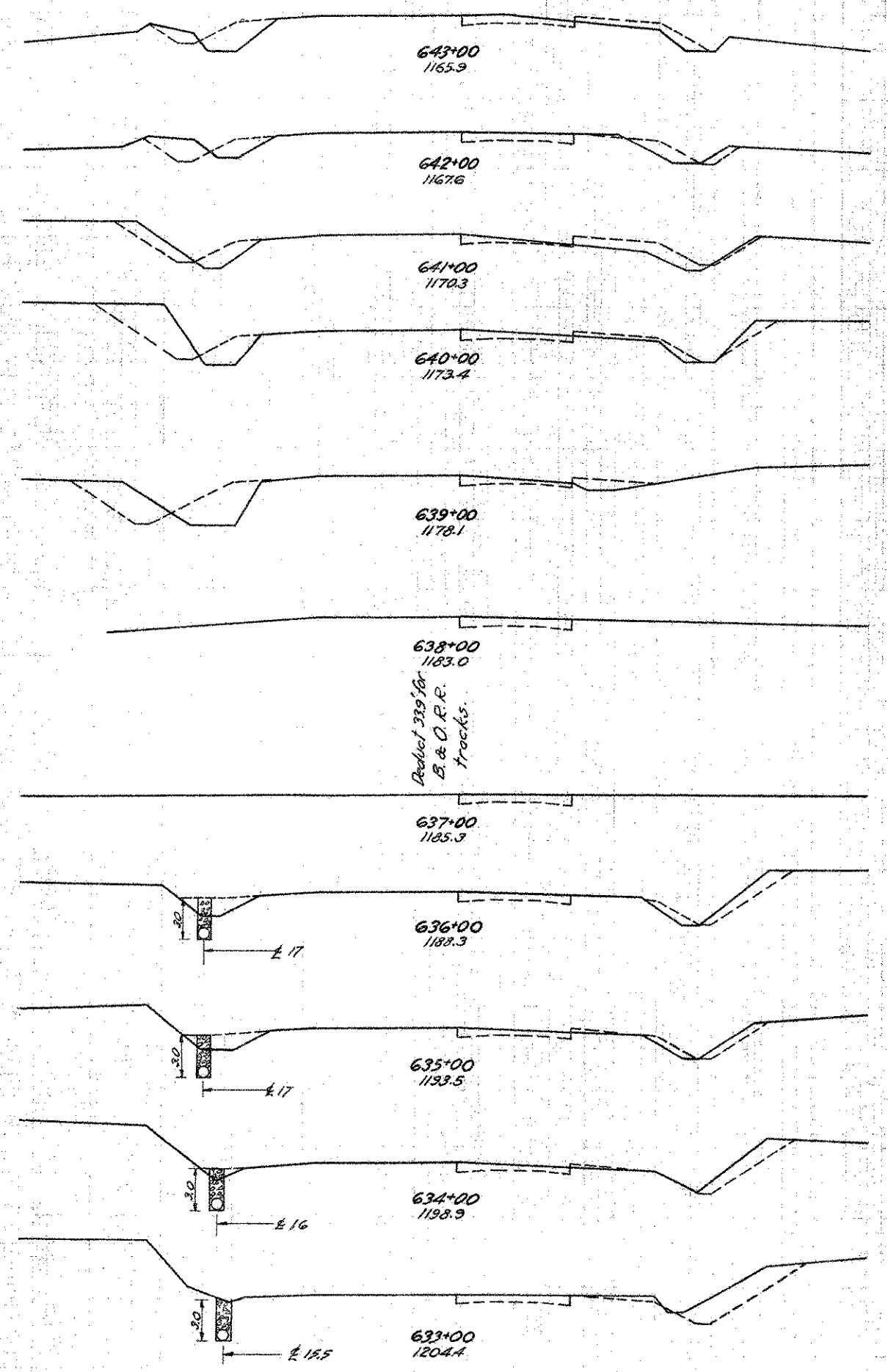
STATE
OHIO

FED. AID
PROJECT
489-C

FISCAL
YEAR
1929

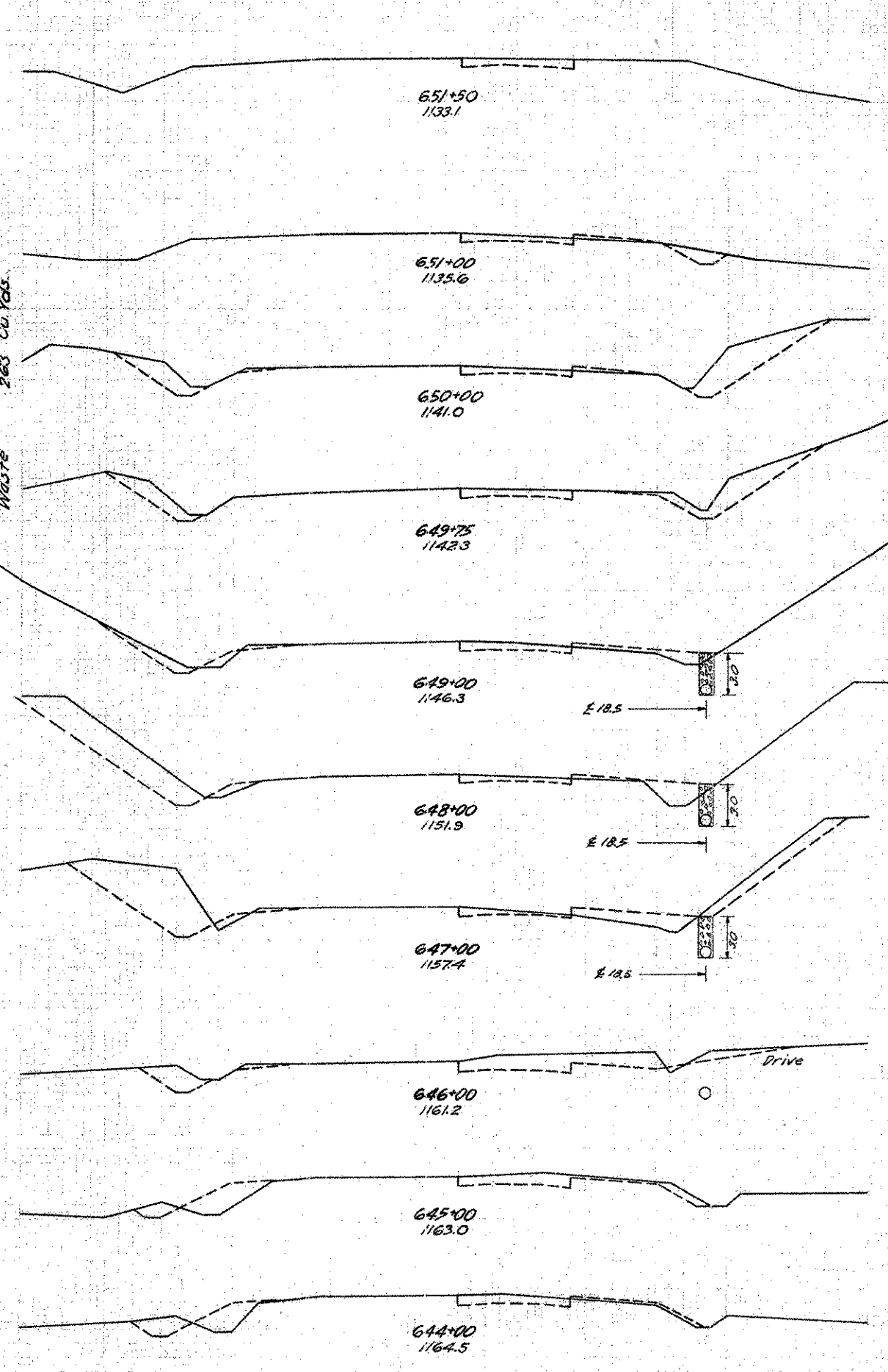
17
31

S.H. (I.C.H.) 15 SEC. J-K;
GEAUGA COUNTY



End Area	Cu. Yds.	End Area	Cu. Yds.
Cut	Fill	Cut	Fill
6	11	28	32
9	6	28	33
6	12	48	35
20	7	61	43
13	16	33	30
5	0	12	0
5	0	26	11
9	6	28	20
6	5	28	11
9	1	44	2
15	0	119	2

Cu. Yds.
60
278
347
263
Clear
Emb.
+25%
Waste



End Area
Cut Fill
Cu. Yds.

End Area	Cu. Yds.	End Area	Cu. Yds.
Cut	Fill	Cut	Fill
4	0	10	1
7	1	57	4
24	1	21	1
22	0	40	7
7	5	67	22
29	7	128	30
40	9	117	17
23	0	65	11
12	6	37	24
8	7	26	33

Sta. 633+00 to 651+50.

645+00

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

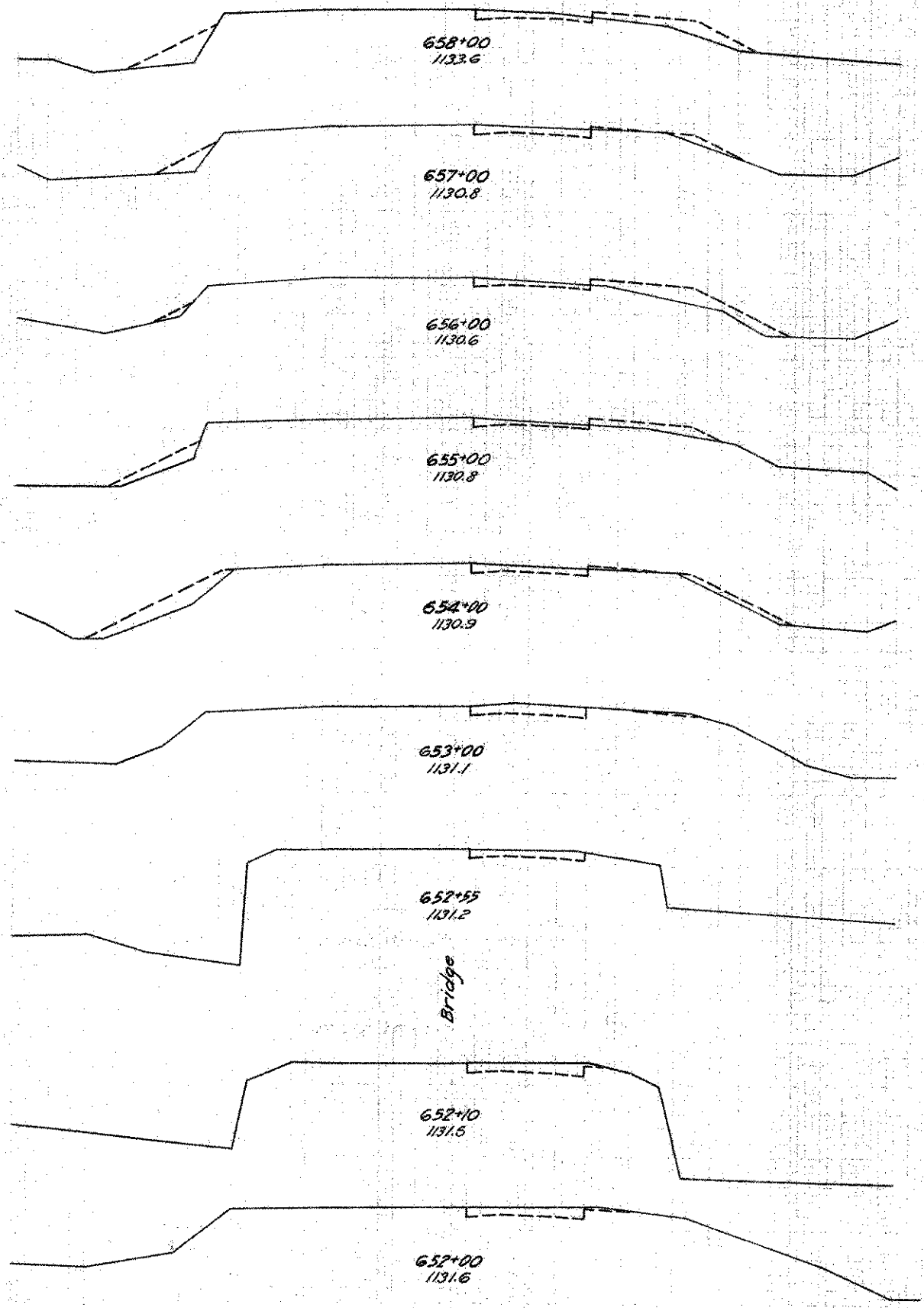
End Area Cu. Yds.
Cut Fill Cut Fill

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

FED. AID DIST. NO. 10 STATE OHIO PROJECT YEAR 489-C 1929

18
31

30
S.H. (I.C.H.) 15 SEC. J. K.
GEAUGA COUNTY.



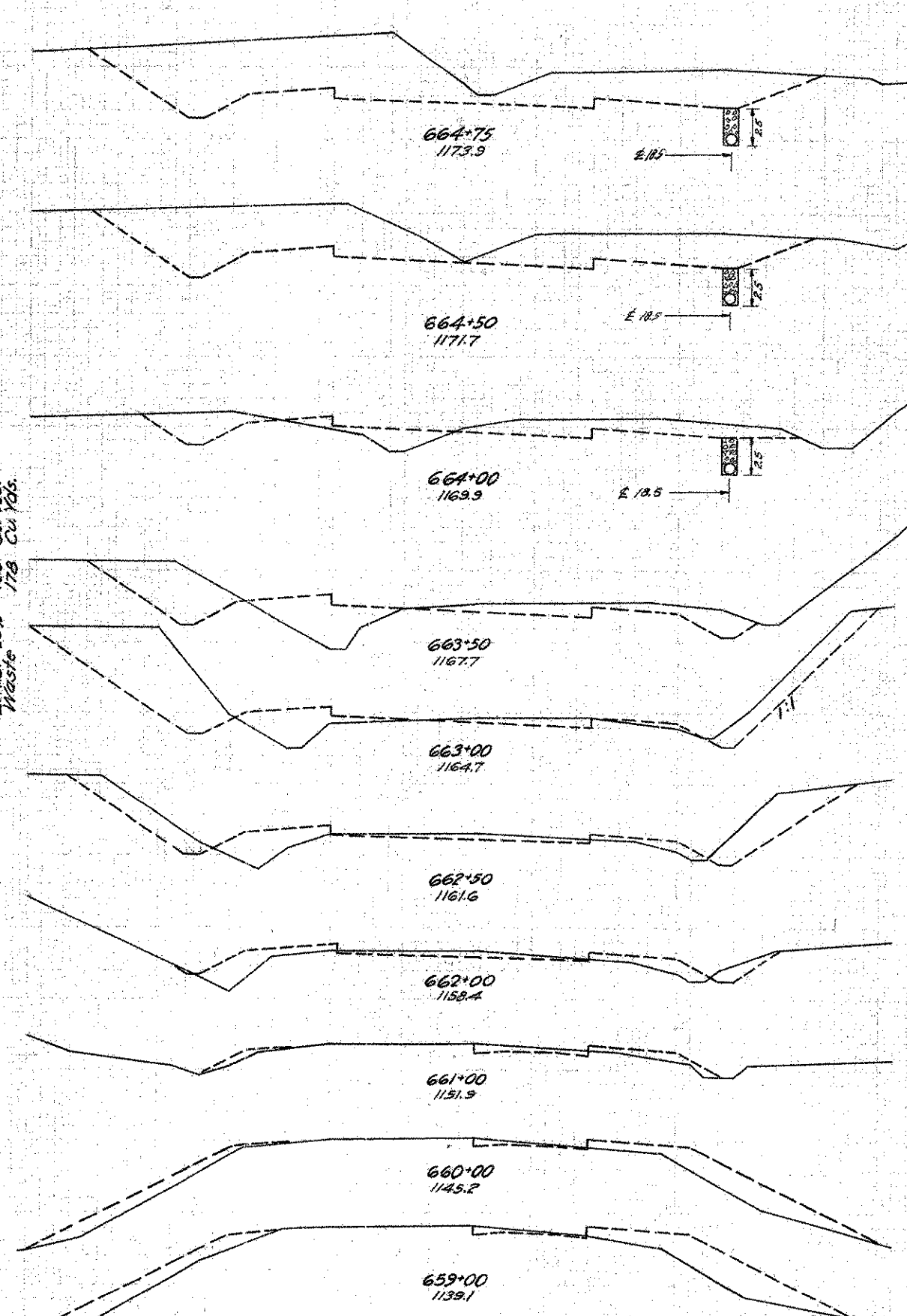
Sta.	Cut	Fill	Cut	Fill
658+00	4	11		
657+00	4	3		
656+00	3	11		
655+00	3	8		
654+00	3	13		
653+00	5	0		
652+55	4	0		
652+10	5	0		
652+00	4	0		
	7	0		

Excav.
Embl.
Waste

598
396
420
178

166
163
163
165

Bridge



Sta.	Cut	Fill	Cut	Fill
664+75	138	0		
664+50	120	0		
664+00	36	10		
663+50	43	19		
663+00	71	13		
662+50	37	15		
662+00	8	14		
661+00	3	7		
660+00	2	38		
659+00	2	39		

Sta.	Cut	Fill	Cut	Fill
664+75	138	0		
664+50	120	0		
664+00	36	10		
663+50	43	19		
663+00	71	13		
662+50	37	15		
662+00	8	14		
661+00	3	7		
660+00	2	38		
659+00	2	39		

Excav.
Embl.
Waste

501
384
489
21

166
163
163
165

Sta. 652+00 to 664+75

30
S-H (I.C.H.) 15 SEC. J. K.
GEAUGA COUNTY

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
82	17		
18	8		
17	52		
0	48		
0	148		
0	112		
0	197		
0	100		
4	148		
4	60		
21	65		
19	10		
83	9		
70	0		
110	0		
100	0		
277	0		
130	0		
124	0		

Excav. 708 Cu. Yds.
Emb. 567 Cu. Yds.
Emb. 12% 709 Cu. Yds.
Waste 29 Cu. Yds.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
8	15		
		78	41
34	7		
		170	22
58	5		
		200	24
50	8		
		106	35
7	11		
		13	76
0	30		
		0	120
0	35		
		4	76
2	6		
		10	10
11	7		

Excav. 678 Cu. Yds.
Emb. 529 Cu. Yds.
Emb. 12% 667 Cu. Yds.
Waste 17 Cu. Yds.

Sta. 665+00 to 677+00

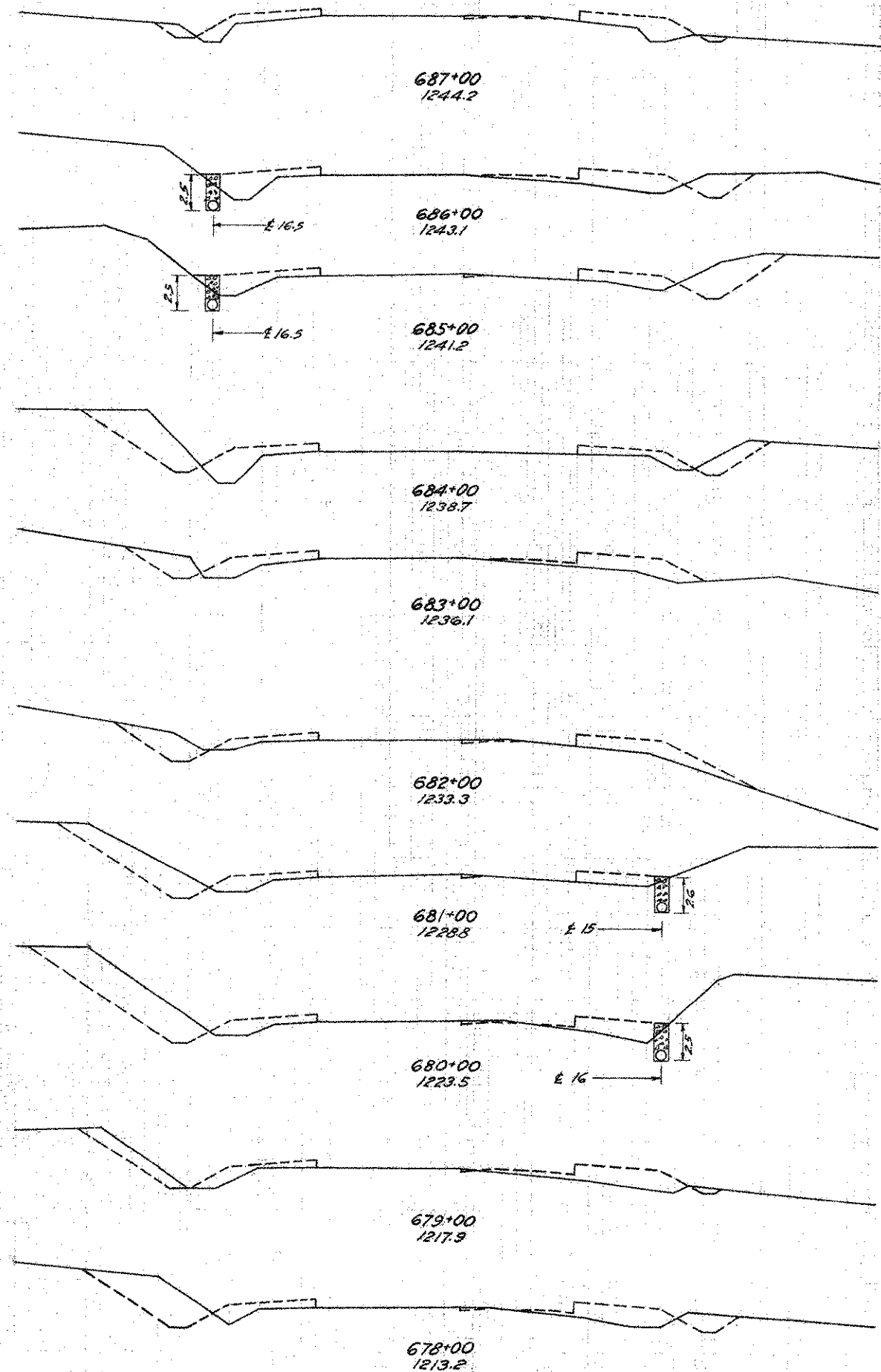
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill

FED. AID DIST. NO.	STATE	FED. AID PROJECT YEAR	FISCAL YEAR
10	OHIO	489-C	1929

20

31

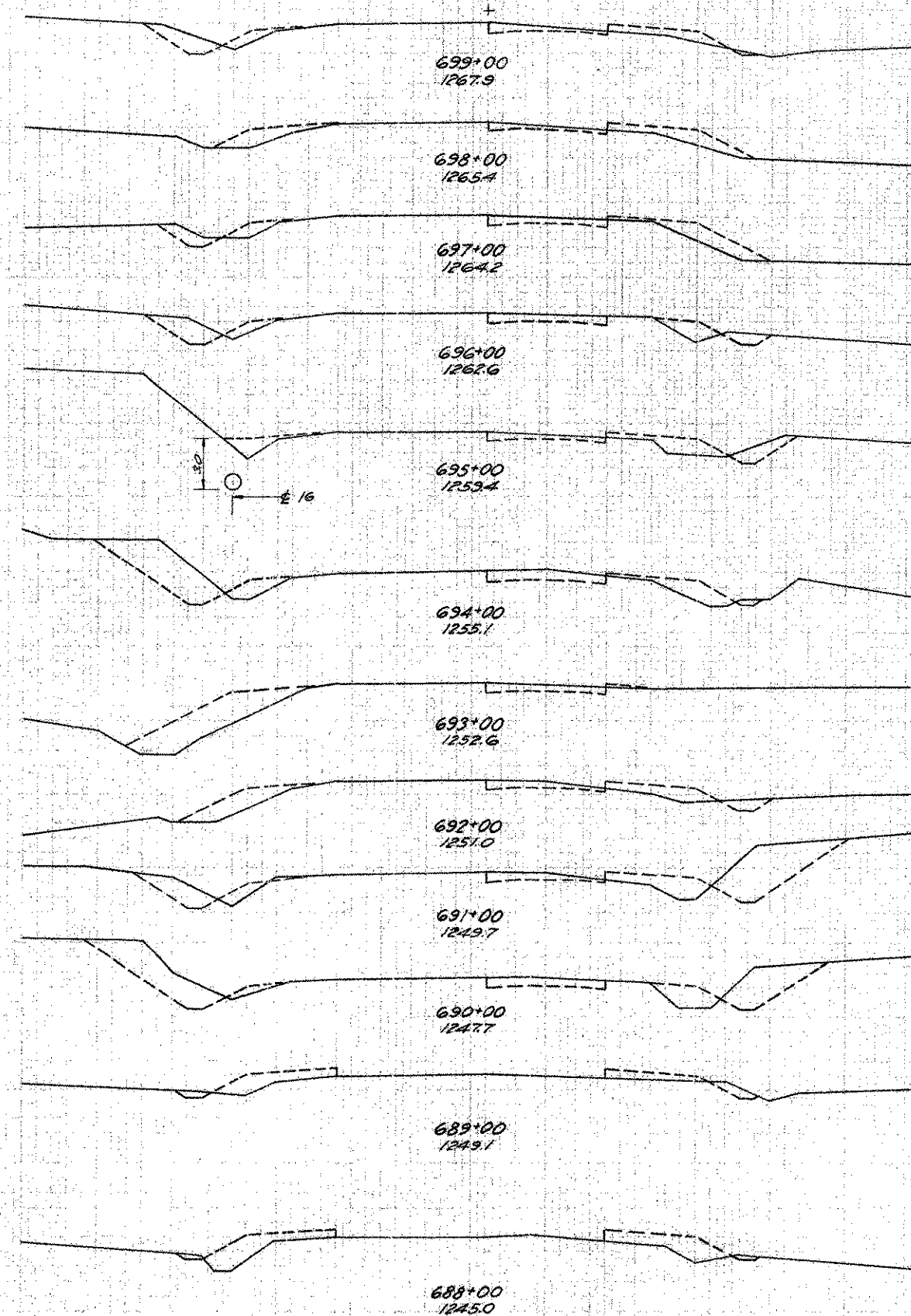
30
S.H. (I.C.H.) 15 SEC. J.K.
GEAUGA COUNTY



1	14		
		11	61
5	19		
		28	57
10	12		
		56	50
20	15		
		46	61
5	18		
		20	57
6	13		
		39	41
15	9		
		74	39
25	12		
		59	52
7	16		
		46	57
18	15		
		48	56

Excav. 607 Cu Yds.
Embank. 662 Cu Yds.
Embank. 252 Cu Yds.
Borrow 220 Cu Yds.

678+00

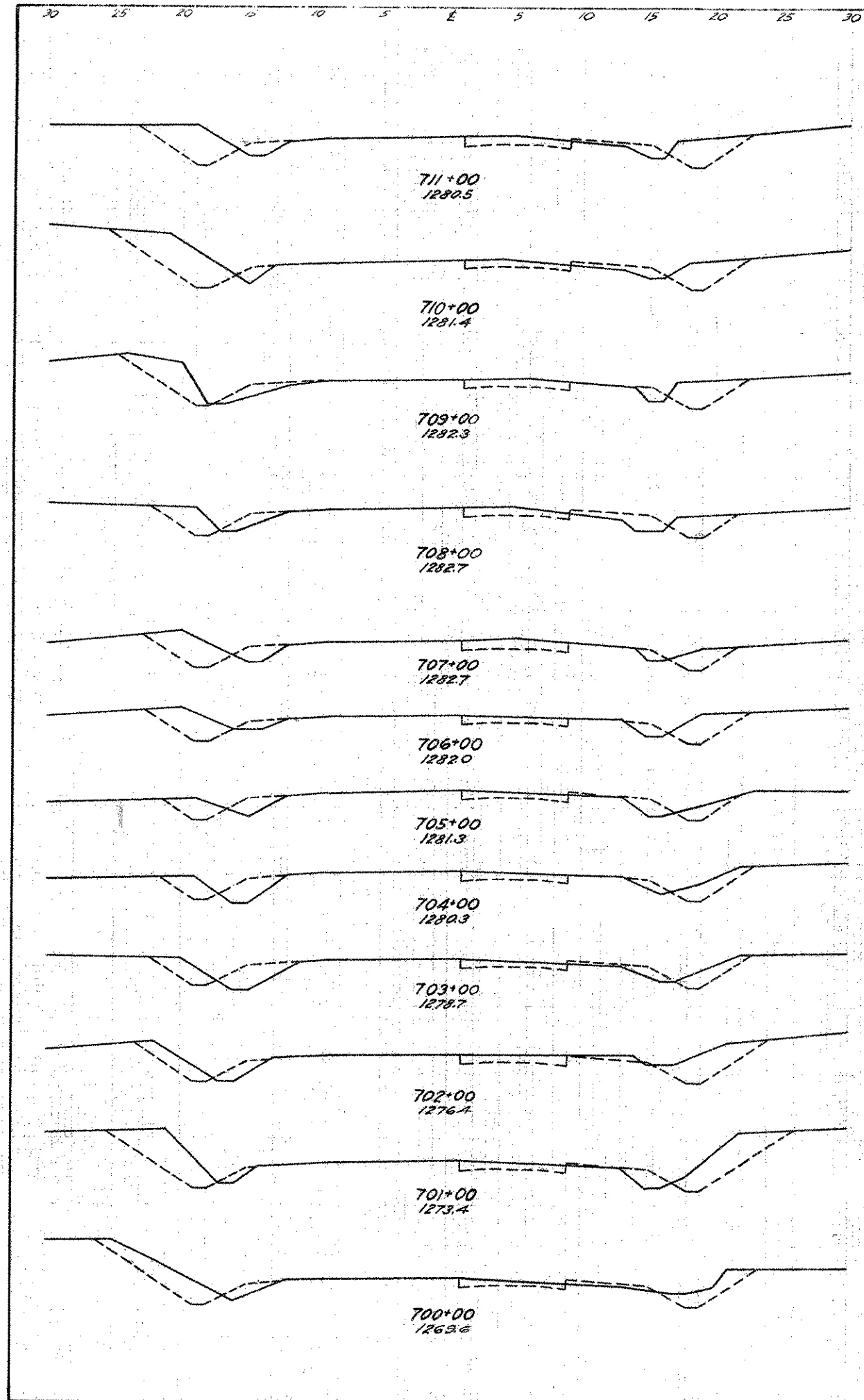


End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
7	5		
		19	28
3	10		
		19	33
7	8		
		32	22
10	4		
		30	22
6	8		
		50	30
21	8		
		44	50
3	19		
		17	59
6	13		
		61	37
27	7		
		104	24
29	6		
		57	28
2	9		
		4	44
0	15		
		2	54

692+00

Sta. 678+00 to 699+00

12.5 12.5 12.5

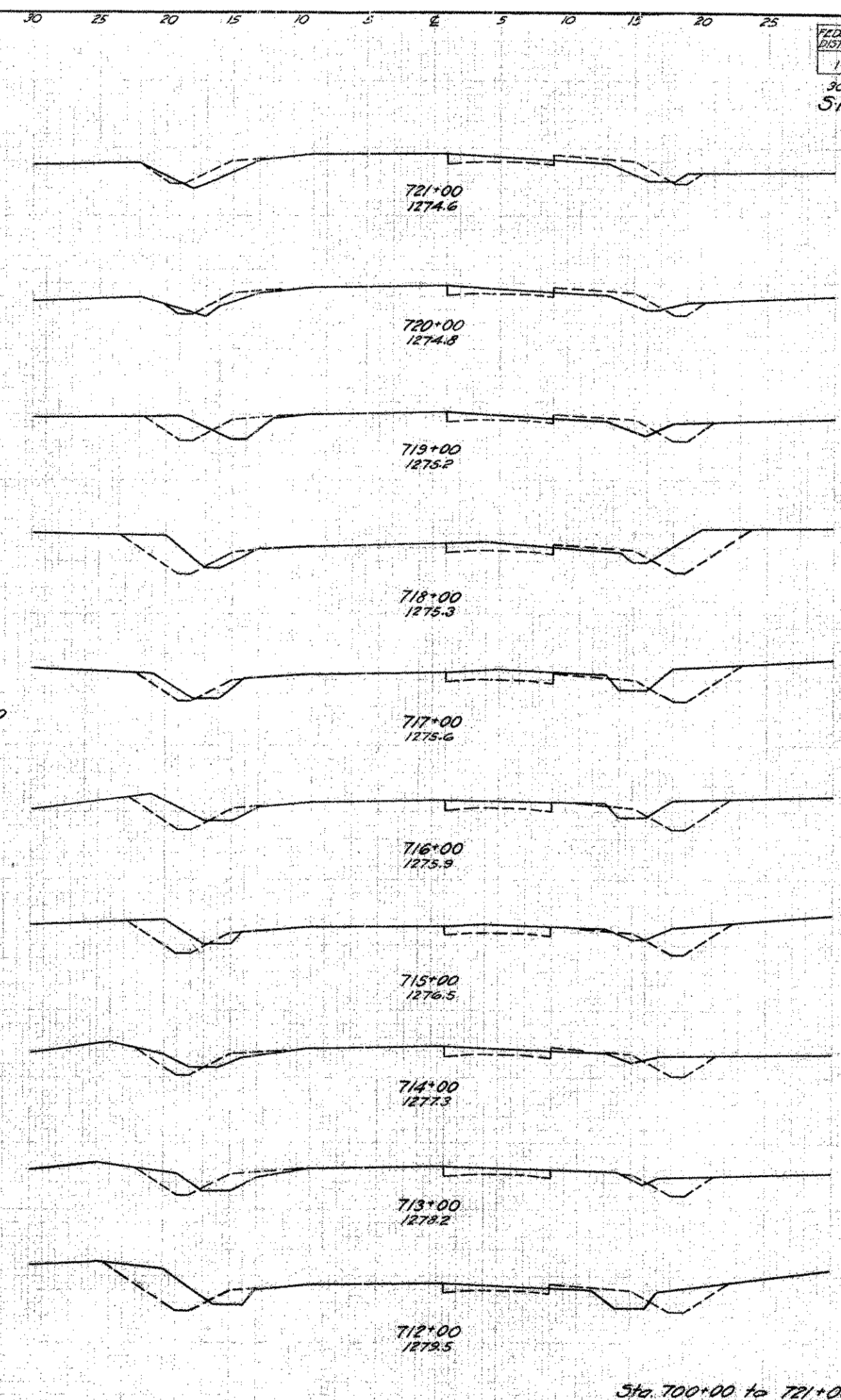


End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
23	5	96	17
29	4	94	17
22	5	69	24
15	8	63	22
19	4	74	18
21	3	59	17
11	6	44	20
13	5	48	26
13	9	61	22
20	3	98	13
33	4	102	15
22	4	54	17

Excav
Emb.
Limbs
Waste

677 Cu Yds
374 Cu Yds
267 Cu Yds
210 Cu Yds

706+00



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
4	7	17	26
5	7	32	28
12	8	65	20
23	3	76	11
18	3	67	13
18	4	65	9
17	1	54	7
12	3	44	13
12	4	59	22
20	8	80	24

Excav
Emb.
Limbs
Waste

938 Cu Yds
240 Cu Yds
300 Cu Yds
638 Cu Yds

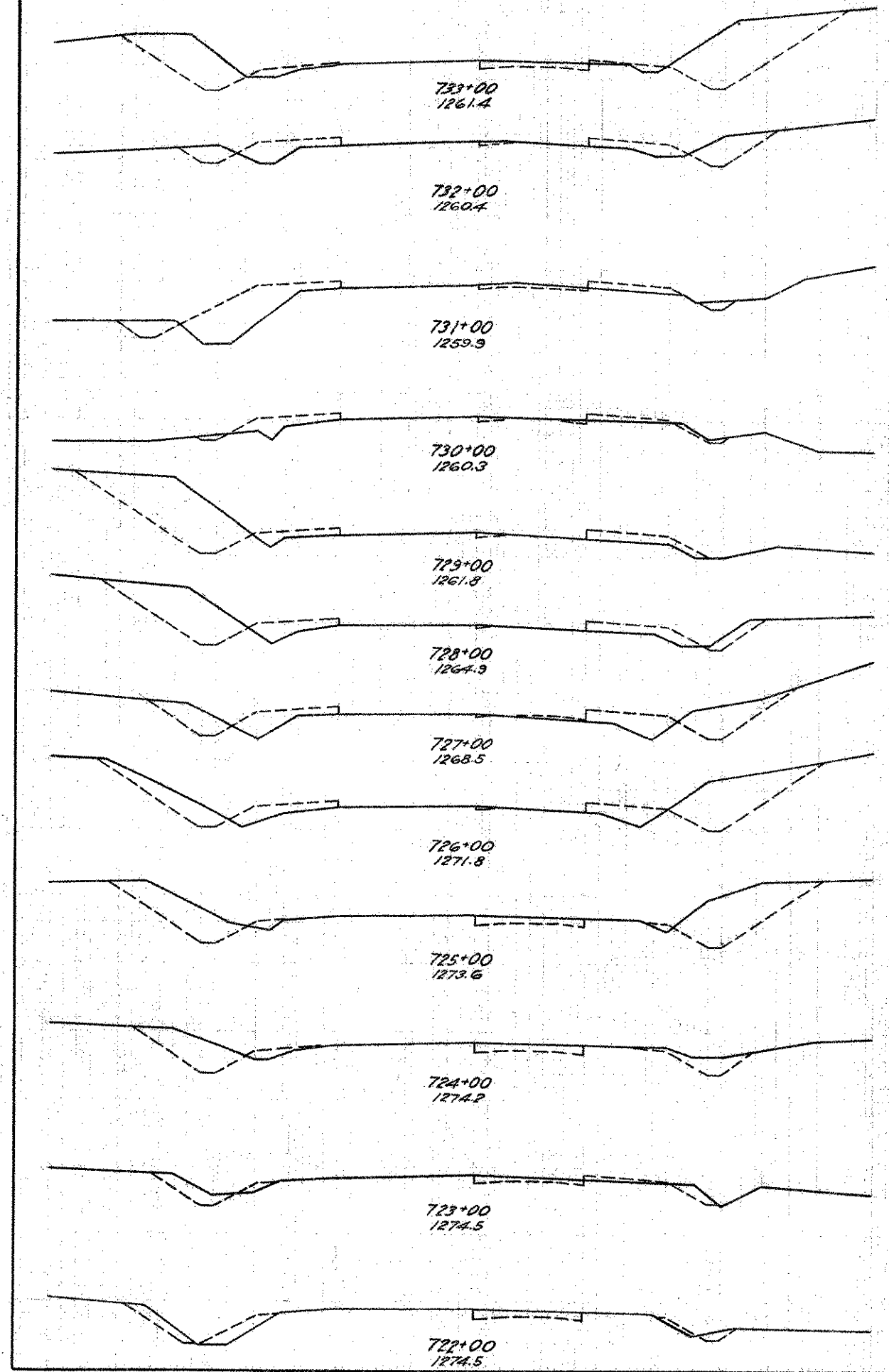
FED. AID DIST. NO.	STATE	FED. AID PROJECT YEAR
10	OHIO	489-C 1929

21/31

30
5H (1-CH) 15 SEC. J-K,
GEAUGA COUNTY.

Sta. 700+00 to 721+00

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

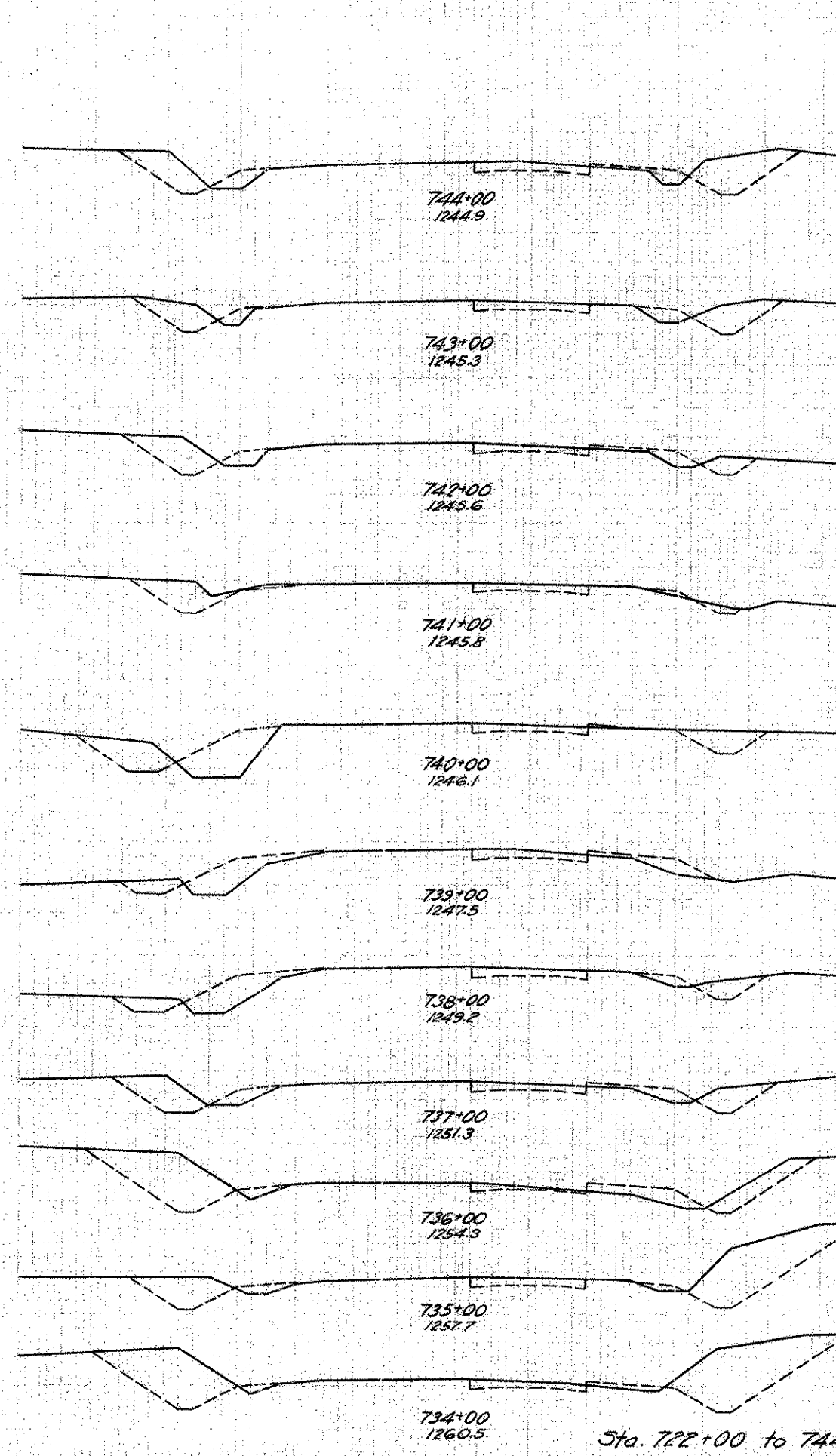


End Area	Cu. Yds.	
	Cut	Fill
55	4	124 30
12	12	33 65
6	23	17 56
3	7	65 28
32	8	106 33
25	10	78 44
17	14	93 44
33	10	144 20
45	1	120 6
20	2	54 6
9	1	32 9
8	4	22 20

Excav
Emb.
Emb. + 25%
Waste

114 Cu Yds
386 Cu Yds
497 Cu Yds
617 Cu Yds

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



End Area	Cu. Yds.	
	Cut	Fill
25	5	83 17
20	4	67 19
16	6	56 13
14	1	61 26
19	13	48 50
7	14	35 46
12	11	57 32
19	6	94 22
32	6	137 17
42	3	185 9
58	2	209 11

Excav
Emb.
Emb. + 25%
Waste

1157 Cu Yds
375 Cu Yds
469 Cu Yds
688 Cu Yds

Sta. 722+00 to 744+00

734+00

S.H. (I.C.H.) 15 SEC. U.K.
GEAUGA COUNTY

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill

6	6	17	107
3	52	16	132
5	19	54	54
24	10	94	26
27	4	91	13
22	3	61	20
11	8	41	33
11	10	65	37
24	10	113	32
37	7	115	22

Excav.
Emb.
Emb. + 2%
Waste

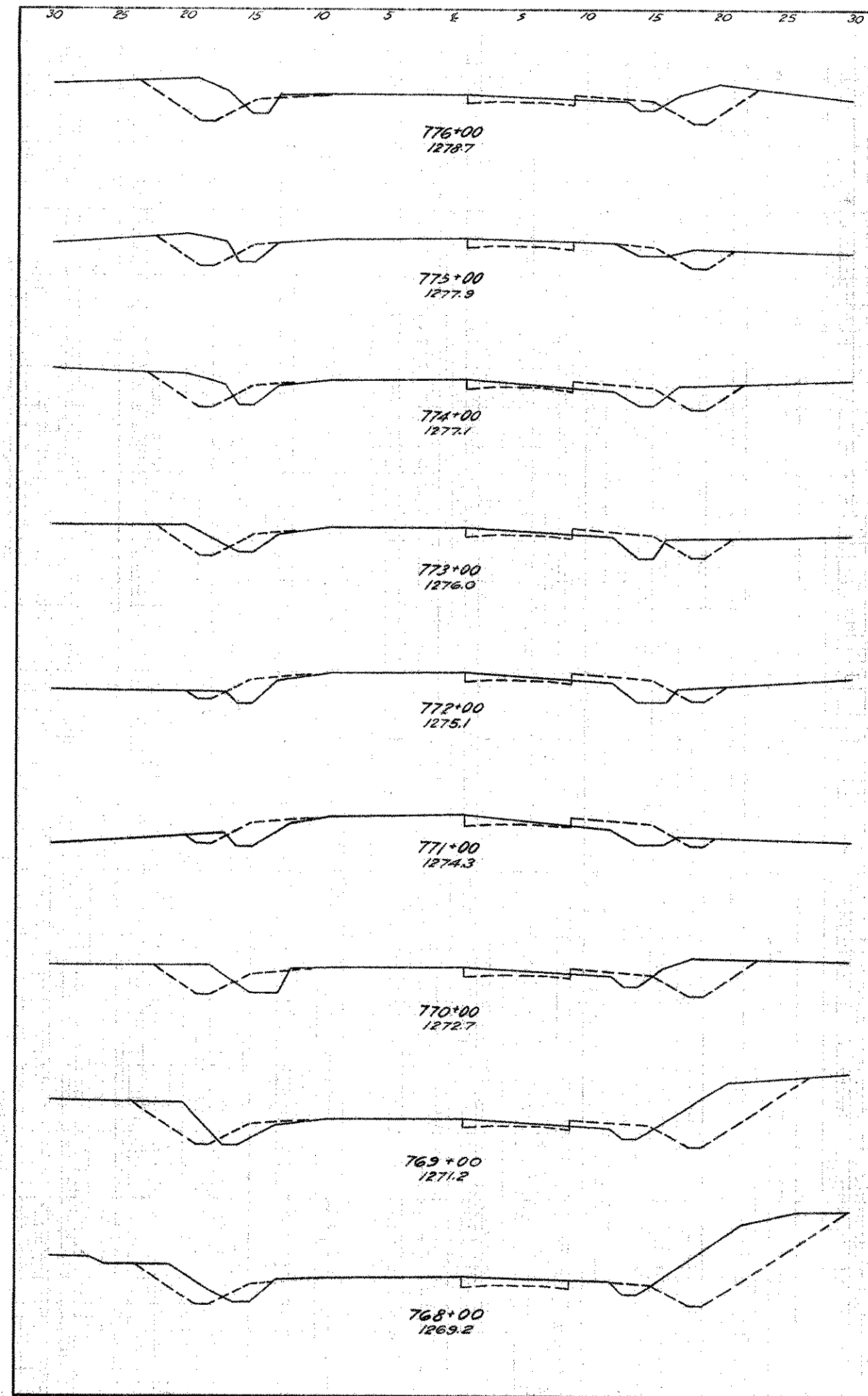
748+00

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill

18	8	43	24
5	5	67	13
31	2	141	19
45	8	137	30
29	8	100	19
25	2	89	11
23	4	72	20
16	7	69	30
21	9	70	32
17	8	80	26
26	6	102	24
29	7	122	24
37	6	80	22

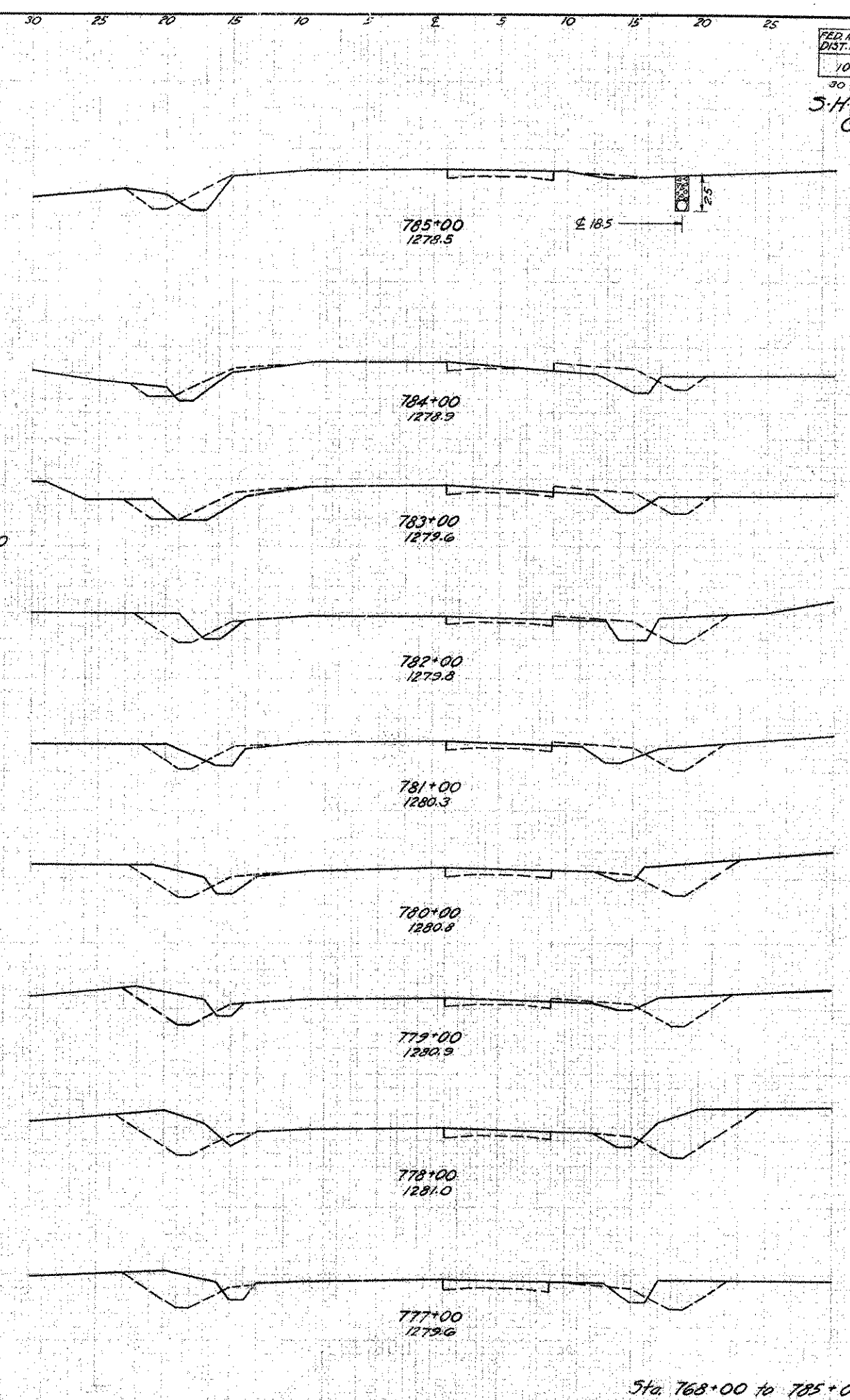
758+00

Sta. 745+00 to 767+00



End Area		Cu Yds	
Cut	Fill	Cut	Fill
29	4	85	17
17	5	65	24
18	8	56	30
12	8	35	39
7	13	20	48
4	13	52	39
24	8	115	30
38	8	169	24
53	5	132	24

Excav. 1316 Cu Yds.
Emb. 402 Cu Yds.
Emb. 302 Cu Yds.
Emb. 809 Cu Yds.
Waste 18%
Total 1699 Cu Yds.



End Area		Cu Yds	
Cut	Fill	Cut	Fill
7	4	22	30
5	12	26	43
9	11	46	30
16	5	56	22
14	7	69	20
23	4	83	11
22	2	100	9
32	3	106	13
25	4	100	15

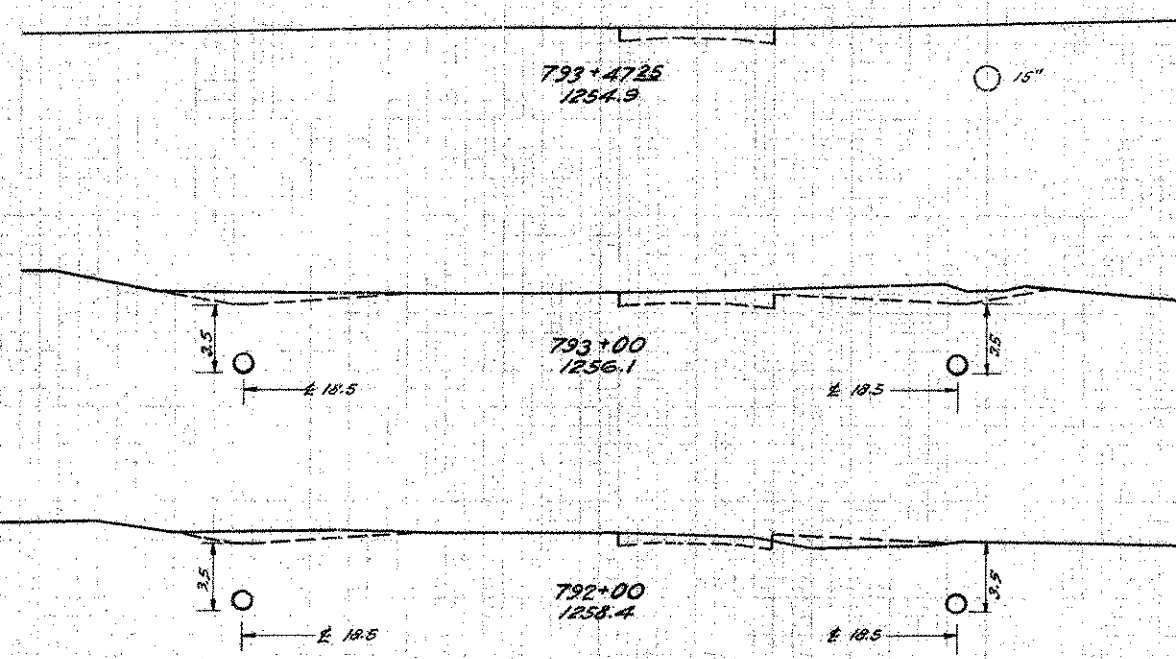
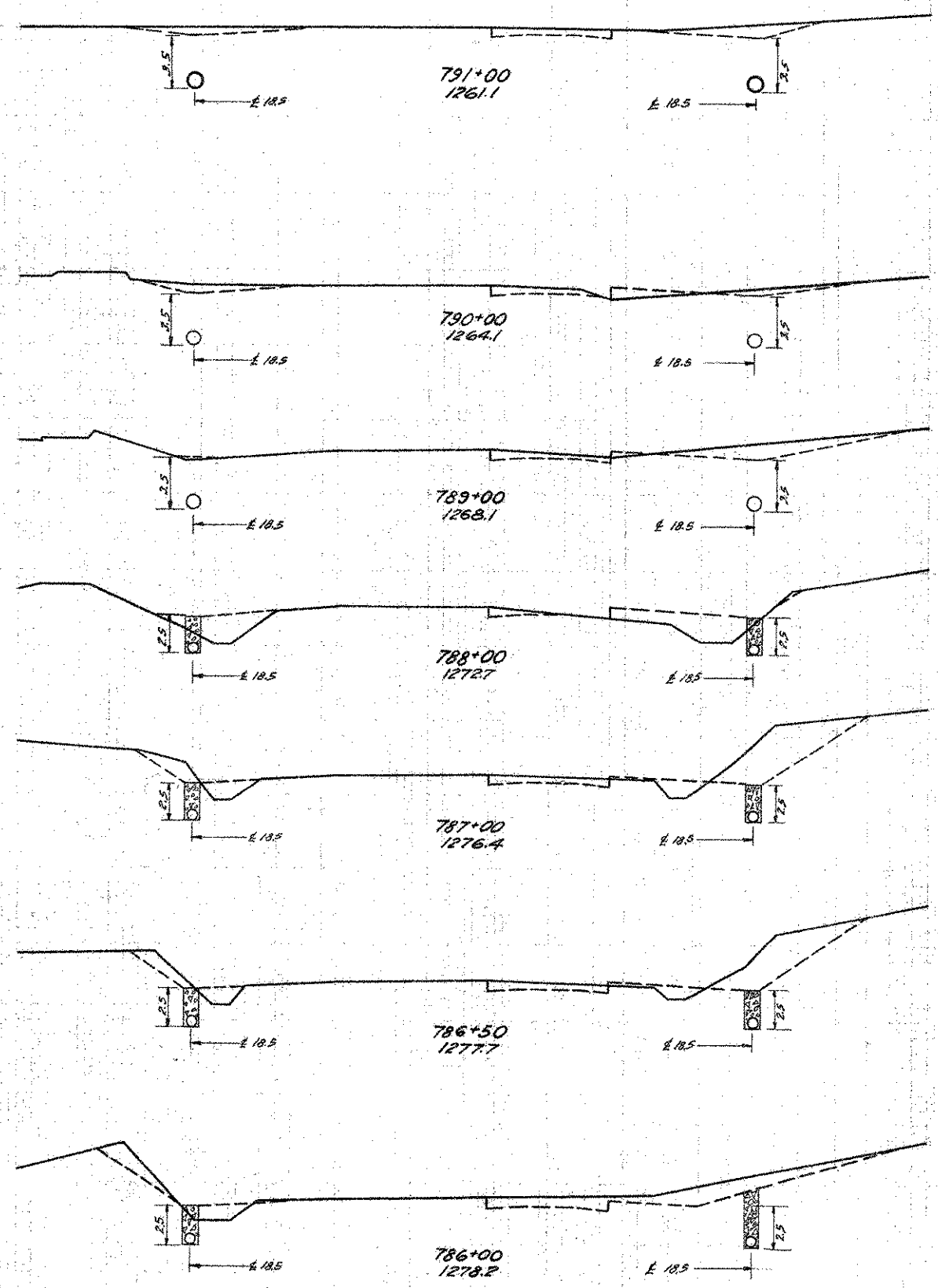
Excav. 912 Cu Yds.
Emb. 287 Cu Yds.
Emb. 359 Cu Yds.
Emb. 353 Cu Yds.
Waste 15%
Total 1699 Cu Yds.

Sta. 768+00 to 785+00

30
S.H. (I.C.H.) 15 SEC. U. K.
GLAUGA COUNTY

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
12	0	35	6
7	3	35	7
12	1	24	35
1	18	50	44
26	6	44	10
22	5	42	8
23	4	56	15

Excav
299 Cu. Yds.
176 Cu. Yds.
145 Cu. Yds.
134 Cu. Yds.
Waste

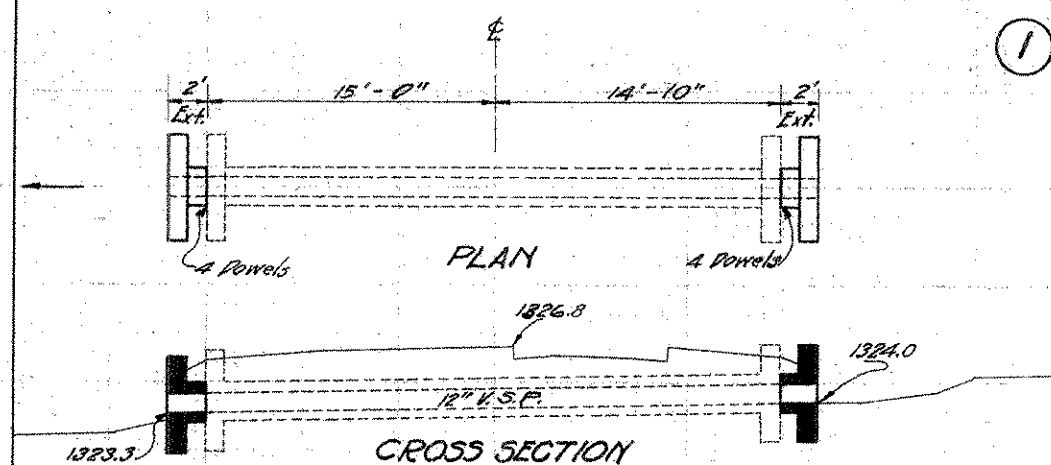


End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
4	0	20	0
19	0	62	7
9	4	39	7

Sta. 786+00 to 793+47.25

793+47.25

SH. (I.C.H.) 15 SEC. J. K.
GEAUGA COUNTY.

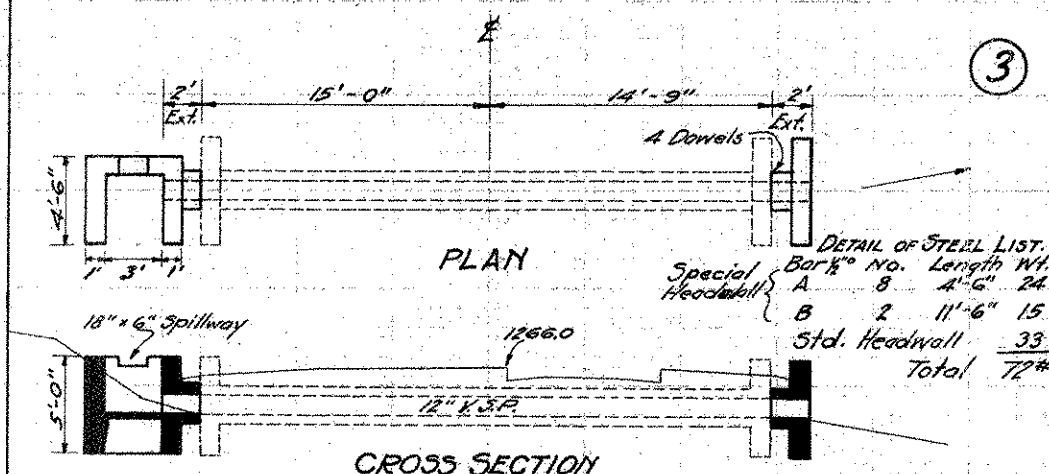


CULVERT DATA
Type V.S.P. Culvert Dr. #300.
Size 12"
Work Reg'd. Remove existing parapets.
Build 2' Ext. Rt. & 2' Ext. Lt.
with Std. 12" V.S.P. Culvert.

EST. QUANTITIES
Excav. 3 Cu. Yds.
Conc. 1-5/8 2.0 Cu. Yds.
Conc. 1-8 .2 Cu. Yds.
Reinf. Steel 65 Lbs.
12" V.S.P. 4 Lin. Ft.
Dowels 8 Complete
Parapets 2 Removed

Drawn by G.R.H. 5-8-29 Div. Engr. D.W.L.
Checked by Date 5/21/29

STA. 558+90.

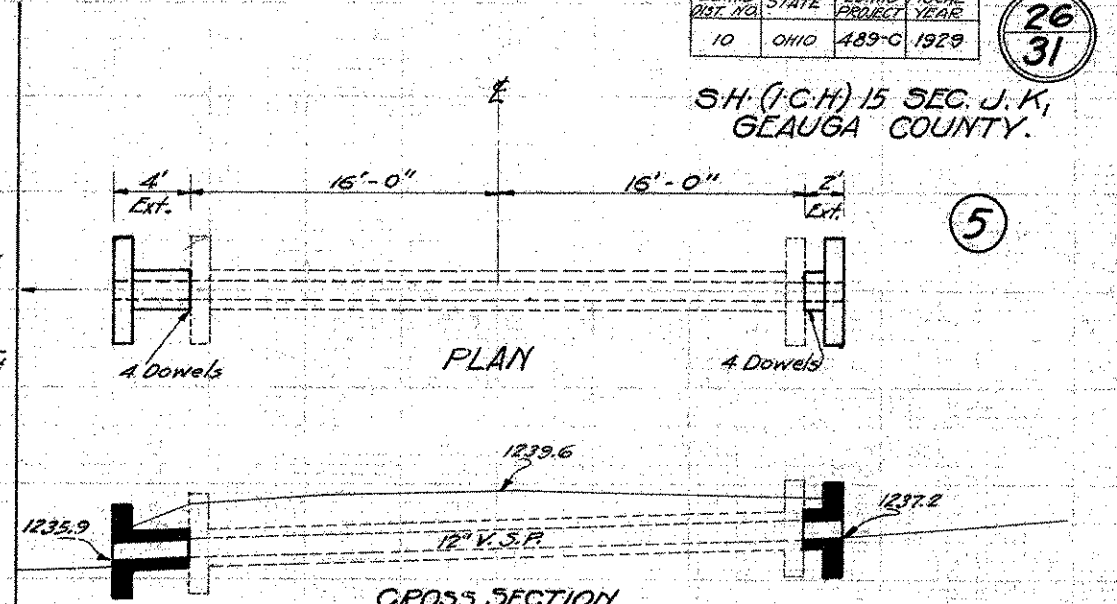


CULVERT DATA
Type V.S.P. Culvert Dr. #300.
Size 12"
Work Reg'd. Remove existing parapets.
Build 2' Ext. with Std. 12" V.S.P. and
Std. Headwall and 2' Ext. Lt. with
Special Hillside Headwall.

EST. QUANTITIES
Excav. 8 Cu. Yds.
Conc. 1-5/8 3.2 Cu. Yds.
Conc. 1-8 .2 Cu. Yds.
Reinf. Steel 72 Lbs.
12" V.S.P. 4 Lin. Ft.
4" Paving 1.2 Sp. Yds.
Dowels 4 Complete
Parapets 2 Removed

Drawn by G.R.H. 5-8-29 Div. Engr. D.W.L.
Checked by Date 5/21/29

STA. 577+81.

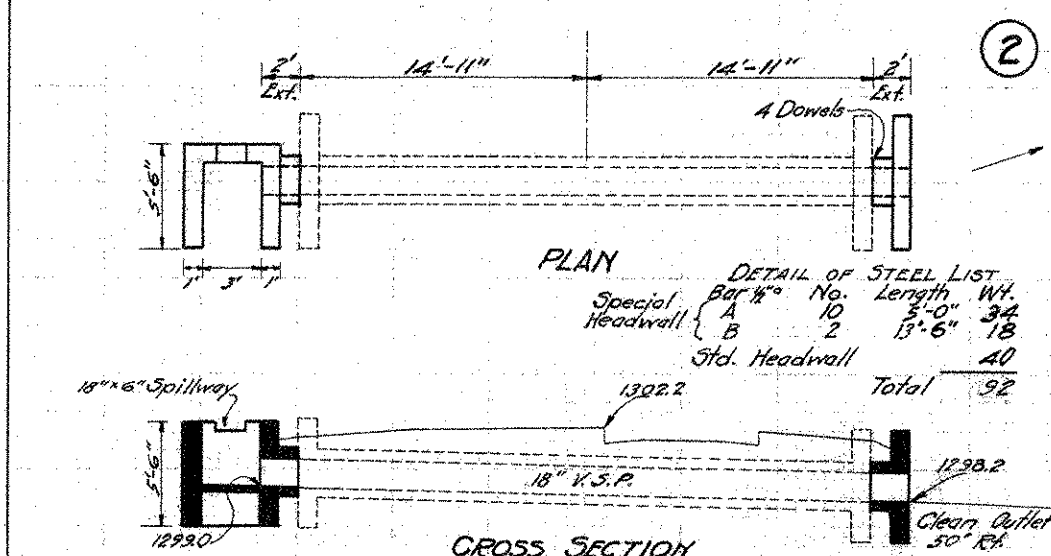


CULVERT DATA
Type V.S.P. Culvert Dr. #300.
Size 12"
Work Reg'd. Remove existing parapets.
Build 2' Ext. Rt. and 4' Ext. Lt.
with Std. 12" V.S.P. Culvert.

EST. QUANTITIES
Excav. 4 Cu. Yds.
Conc. 1-5/8 2.0 Cu. Yds.
Conc. 1-8 .4 Cu. Yds.
Reinf. Steel 65 Lbs.
12" V.S.P. 6 Lin. Ft.
Dowels 8 Complete
Parapets 2 Removed

Drawn by G.R.H. 5-8-29 Div. Engr. D.W.L.
Checked by Date 5/21/29

STA. 590+88.

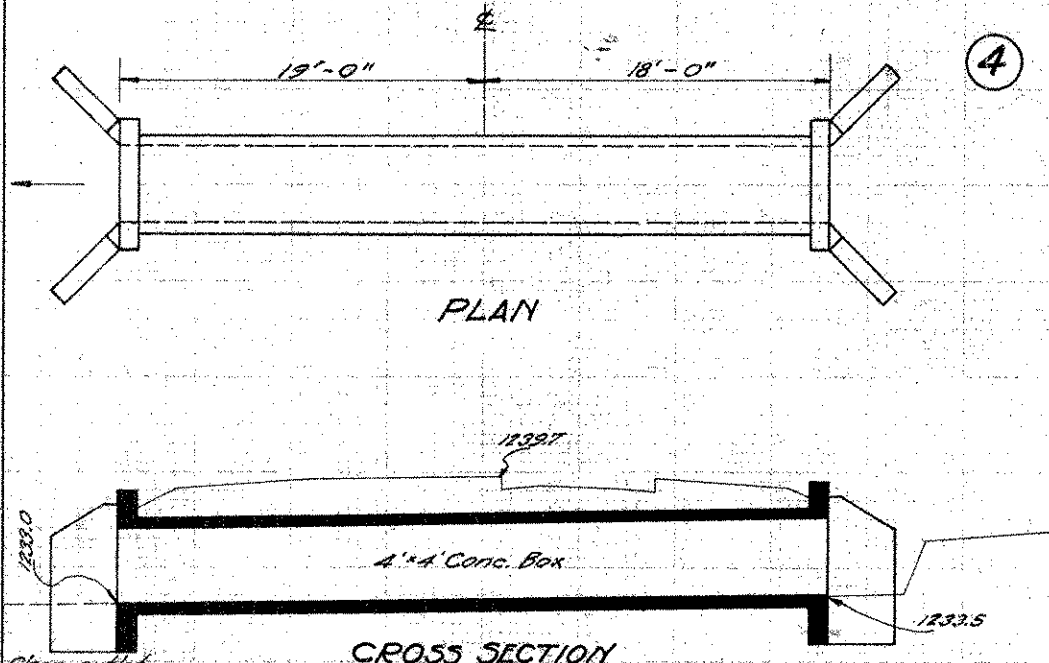


CULVERT DATA
Type V.S.P. Culvert Dr. #300.
Size 12"
Work Reg'd. Remove existing parapets.
Build 2' Ext. Rt. with Std. headwall
and 2' Ext. Lt. with special headwall.

EST. QUANTITIES
Excav. 10 Cu. Yds.
Conc. 1-5/8 4.1 Cu. Yds.
Conc. 1-8 0.3 Cu. Yds.
Reinf. Steel 92 Lbs.
12" V.S.P. 4 Lin. Ft.
4" Paving 1.5 Sp. Yds.
Dowels 4 Complete
Parapets 2 Removed

Drawn by G.R.H. 5-8-29 Div. Engr. D.W.L.
Checked by Date 5/21/29

STA. 568+52.

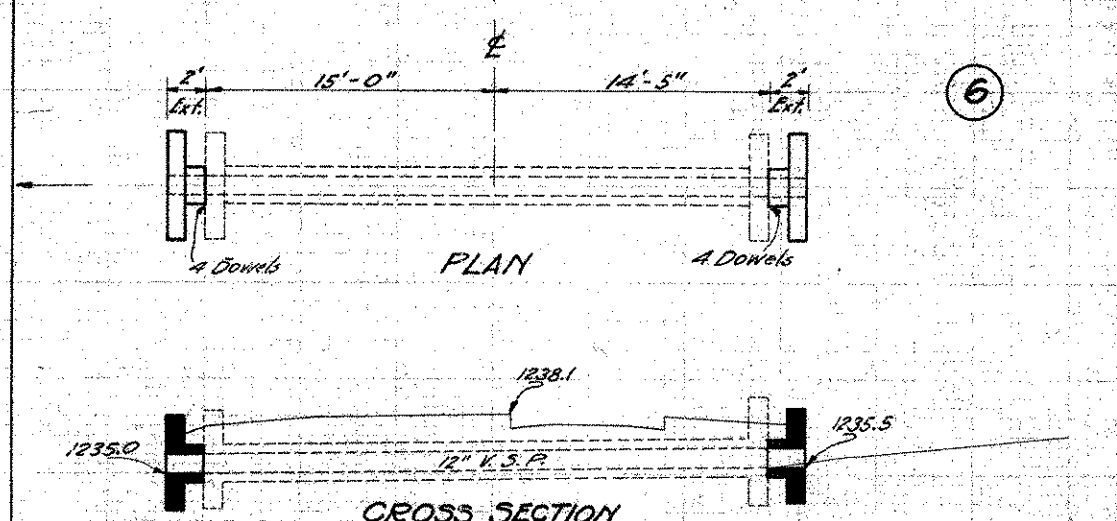


CULVERT DATA
Type Std. Conc. Box Culvert #301 Dr.
Size 4' x 4' x 37"
Work Reg'd. Remove existing 2 1/2' x 4' x 27.7'
Stone and Conc. Box. Build new
Std. 4' x 4' x 37' Conc. Box Culvert.

EST. QUANTITIES
Excav. 50 Cu. Yds.
Conc. 1-5/8 24.5 Cu. Yds.
Reinf. Steel 1089 Lbs.

Drawn by G.R.H. 5-8-29 Div. Engr. D.W.L.
Checked by Date 5/21/29

STA. 588+03.

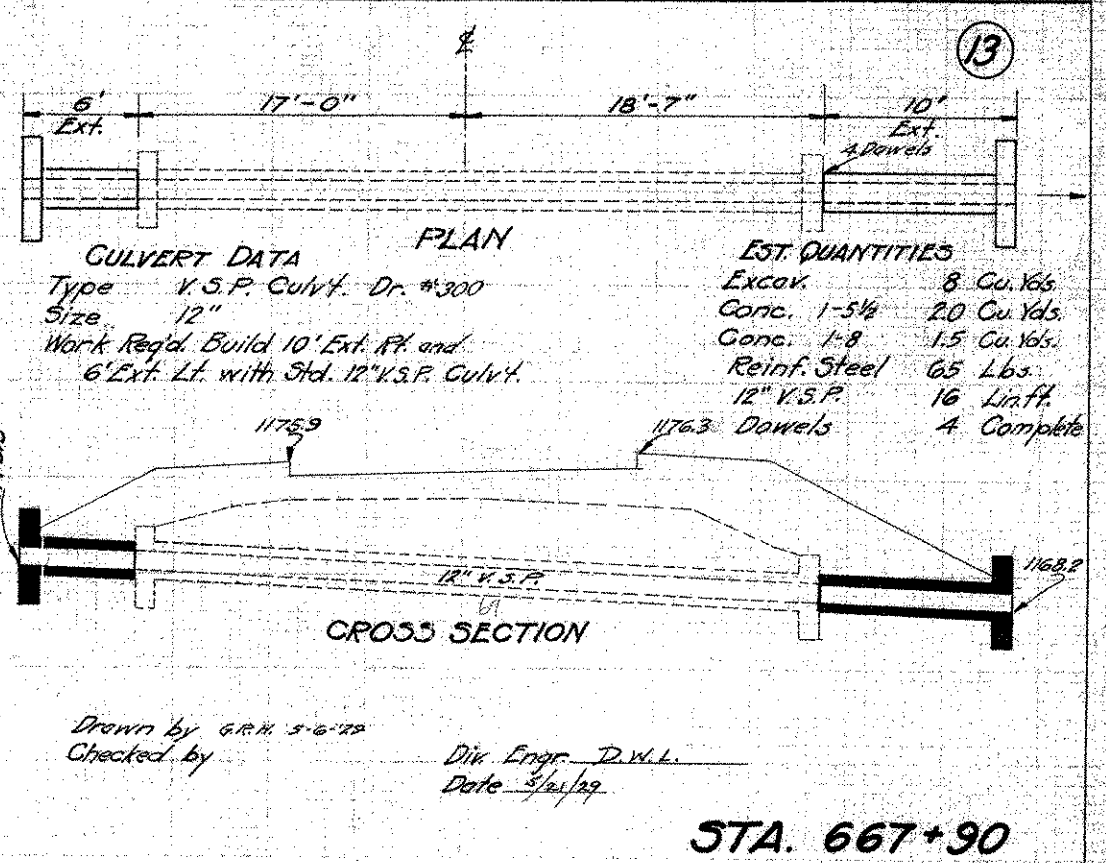
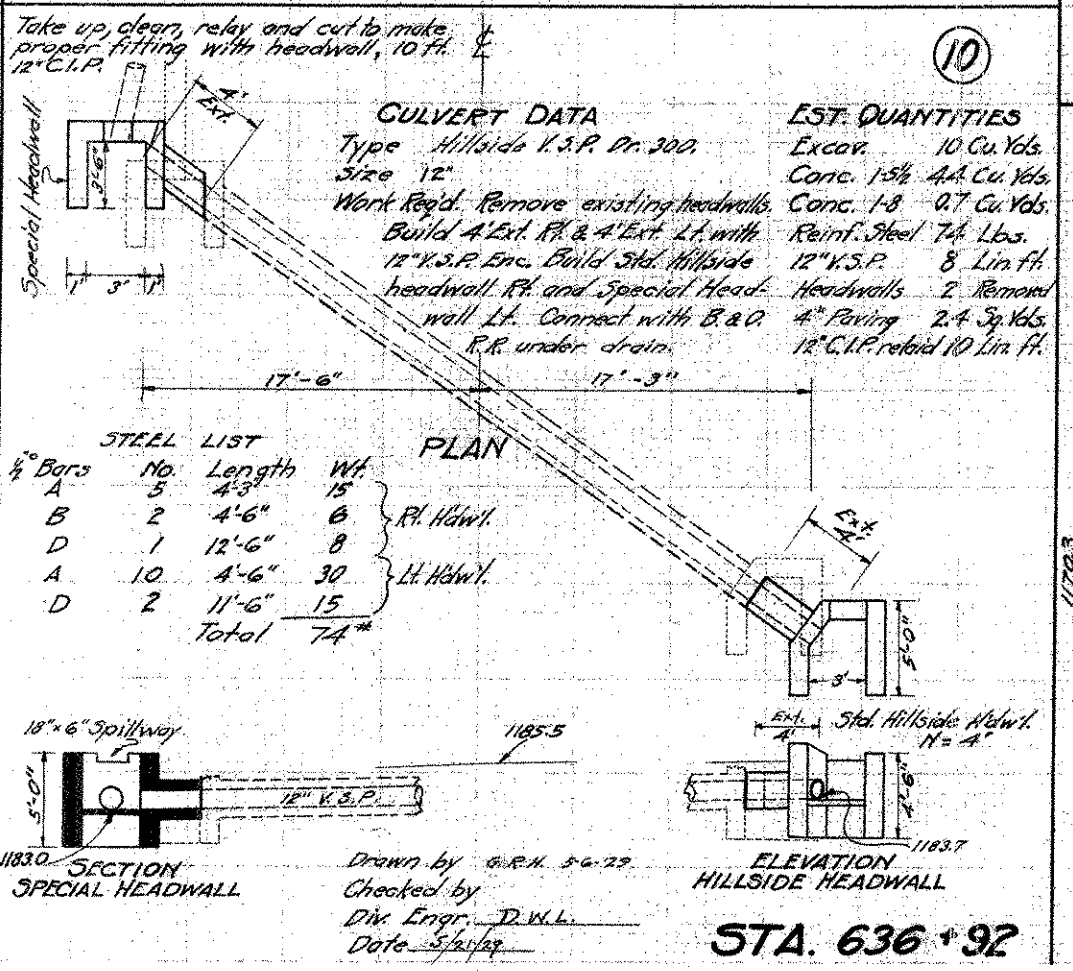
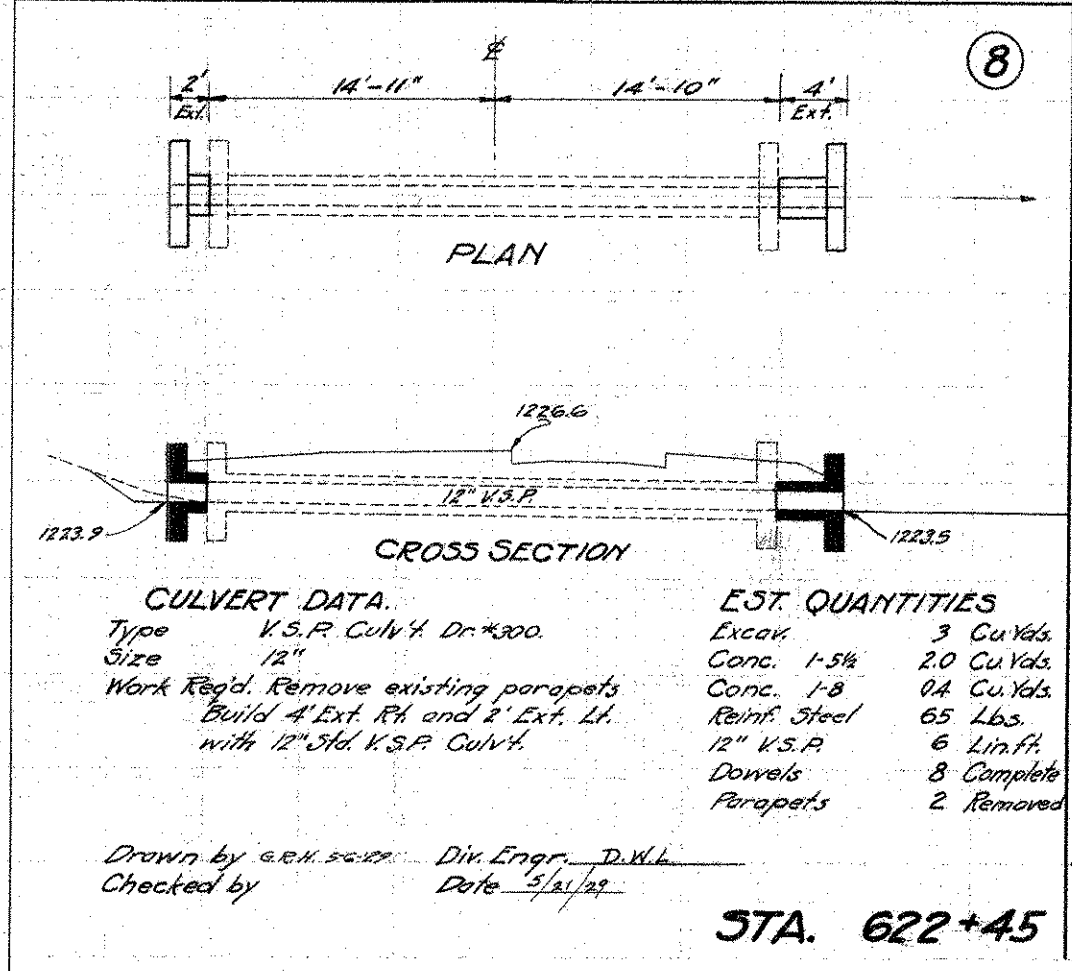
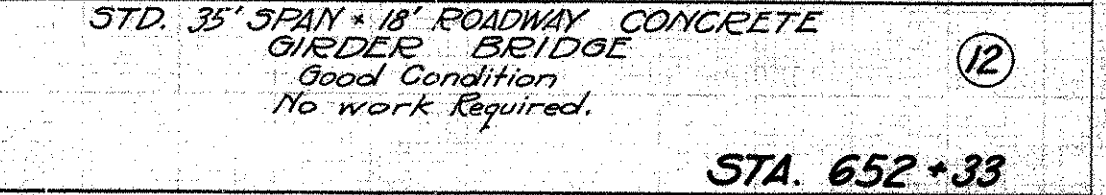
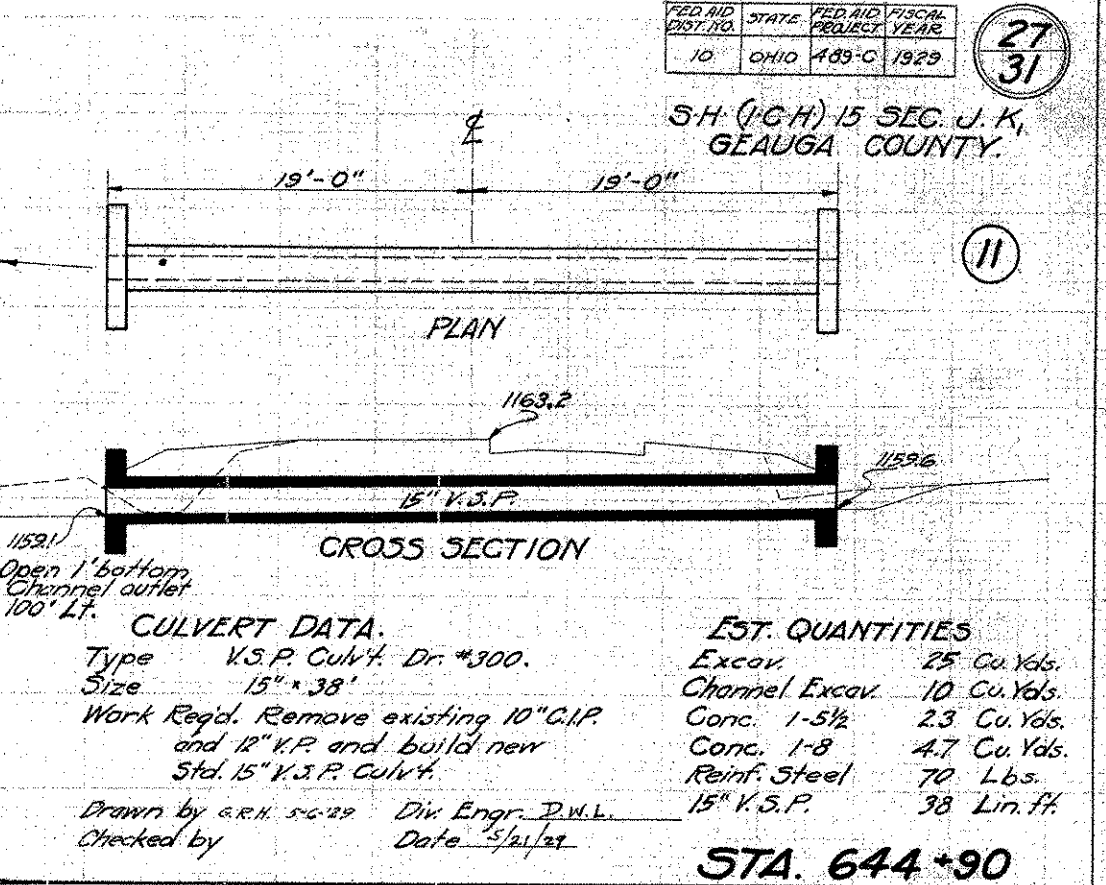
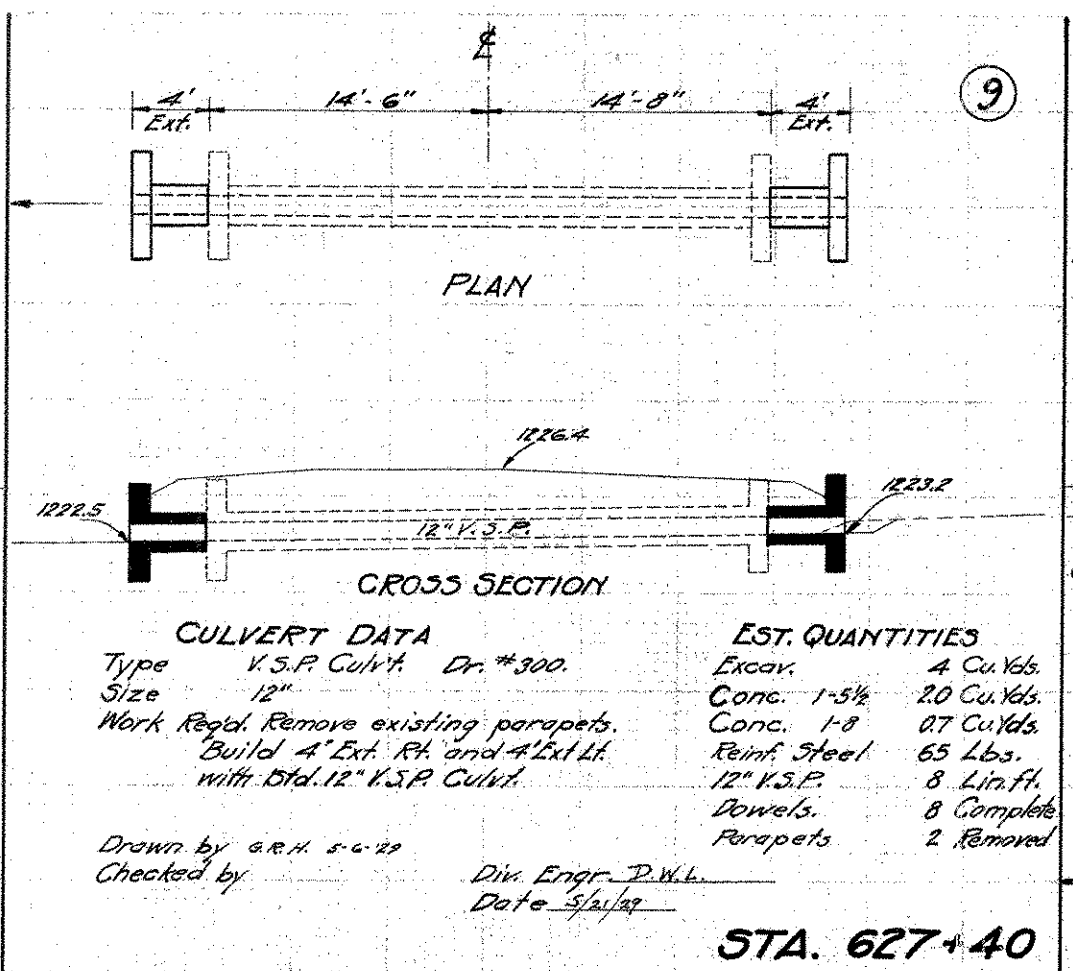
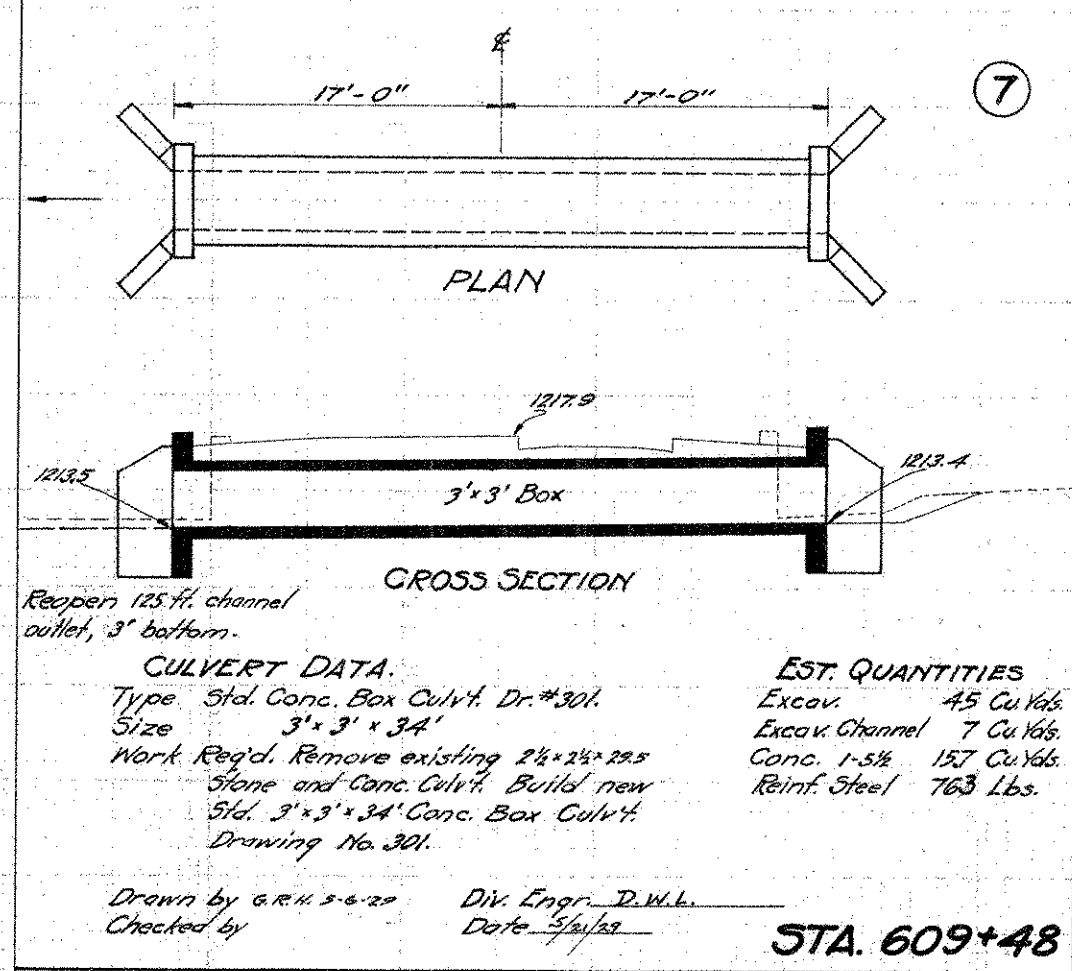


CULVERT DATA
Type V.S.P. Culvert Dr. #300.
Size 12"
Work Reg'd. Remove existing parapets.
Build 2' Ext. Rt. and 2' Ext. Lt.
with Std. 12" V.S.P. Culvert.

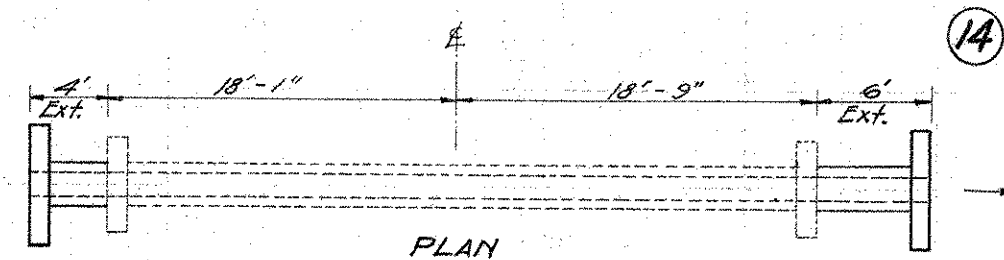
EST. QUANTITIES
Excav. 3 Cu. Yds.
Conc. 1-5/8 2.0 Cu. Yds.
Conc. 1-8 .2 Cu. Yds.
Reinf. Steel 65 Lbs.
12" V.S.P. 4 Lin. Ft.
Dowels 8 Complete
Parapets 2 Removed

Drawn by G.R.H. 5-8-29 Div. Engr. D.W.L.
Checked by Date 5/21/29

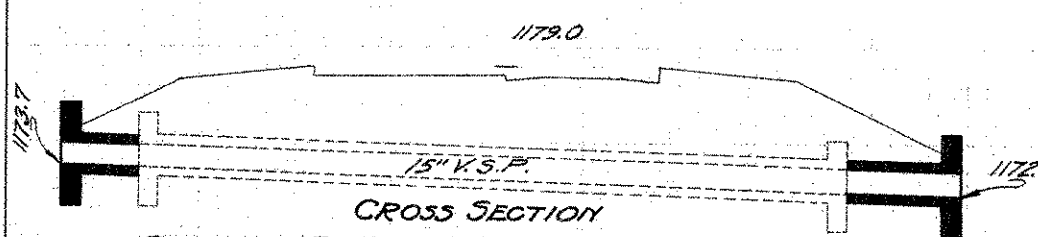
STA. 596+72.



S.H. (I.C.H.) 15 SEC. J.K.
GEAUGA COUNTY



PLAN



CROSS SECTION

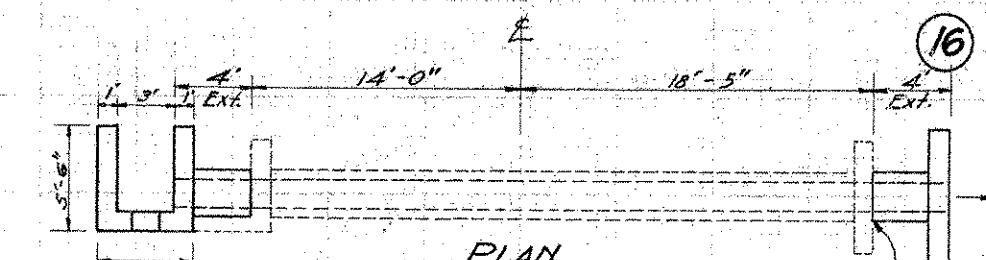
CULVERT DATA
Type V.S.P. Culv. Dr. #300.
Size 15"
Work Reg'd. Build 6' Ext. Rt. and 4' Ext. Lt. with Std. 15" V.S.P. Culv.

EST. QUANTITIES
Excav. 6 Cu. Yds.
Conc. 1-5 1/2 2.3 Cu. Yds.
Conc. 1-8 1.0 Cu. Yds.
Reinf. Steel 70 Lbs.
15" V.S.P. 10 Lin. ft.

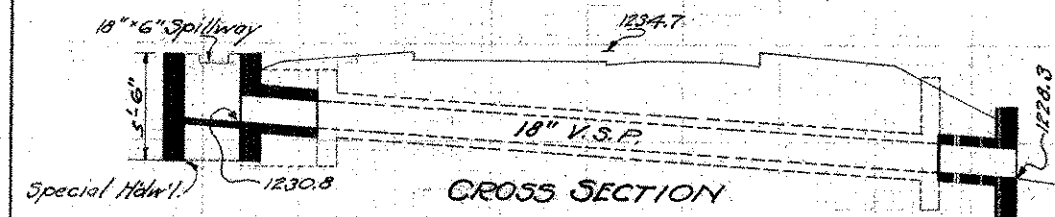
Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

STA. 671+18



PLAN



CROSS SECTION

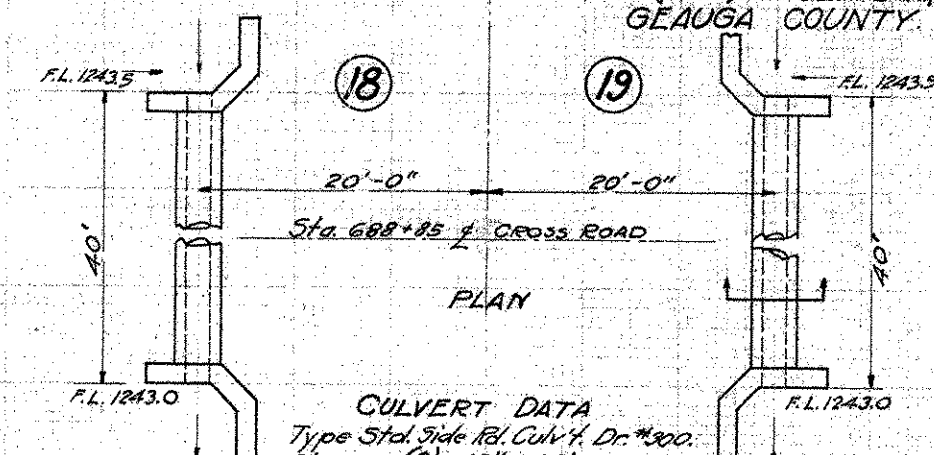
CULVERT DATA
Type V.S.P. Culv. Dr. #300.
Size 15"
Work Reg'd. Remove Rt. parapet and build 4' Ext. with Std. Headwall. Remove Lt. Hillside Headwall and build 4' Ext. with Special Hillside Headwall.

EST. QUANTITIES
Excav. 10 Cu. Yds.
Conc. 1-5 1/2 4.1 Cu. Yds.
Conc. 1-8 0.9 Cu. Yds.
Reinf. Steel 92 Lbs.
18" V.S.P. 8 Lin. ft.
Dowels 4 Complete
Headwalls 1 Removed
Parapets 1 Removed

Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

STA. 682+32



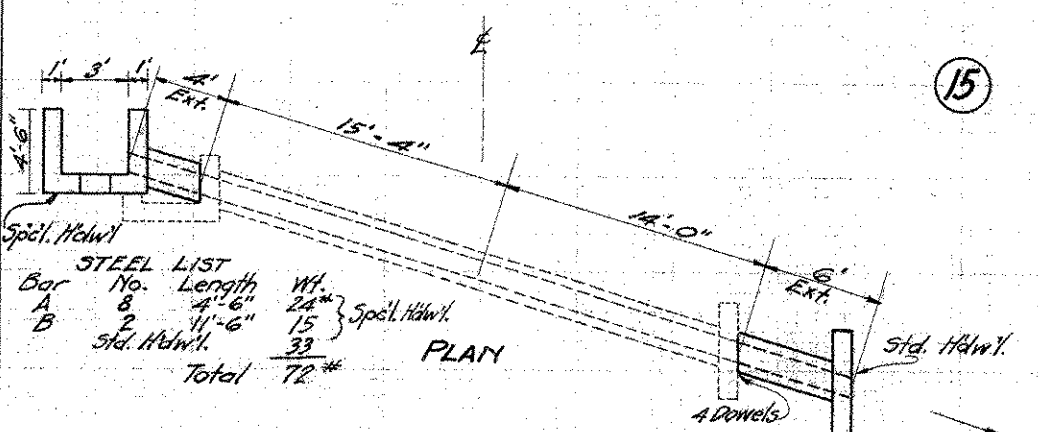
PLAN

CULVERT DATA
Type Std. Side Rd. Culv. Dr. #300.
Size (2) 15" x 40"
Work Reg'd. Remove existing 12" C.I.P. Build 2 new Std. 15" x 40" V.S.P. side Rd. Culv.

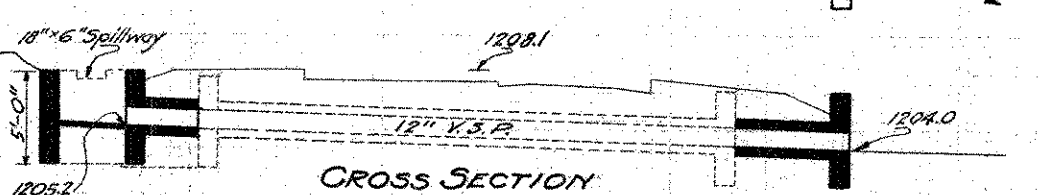
EST. QUANTITIES
Excav. 30 Cu. Yds.
Conc. 1-5 1/2 5.8 Cu. Yds.
Conc. 1-8 9.9 Cu. Yds.
Reinf. Steel 130 Lbs.
15" V.S.P. 80 Lin. ft.

Drawn by G.R.H. 5-3-29
Checked by
Div. Engr. D.W.L.
Date 5/21/29

STA. 688+85



PLAN



CROSS SECTION

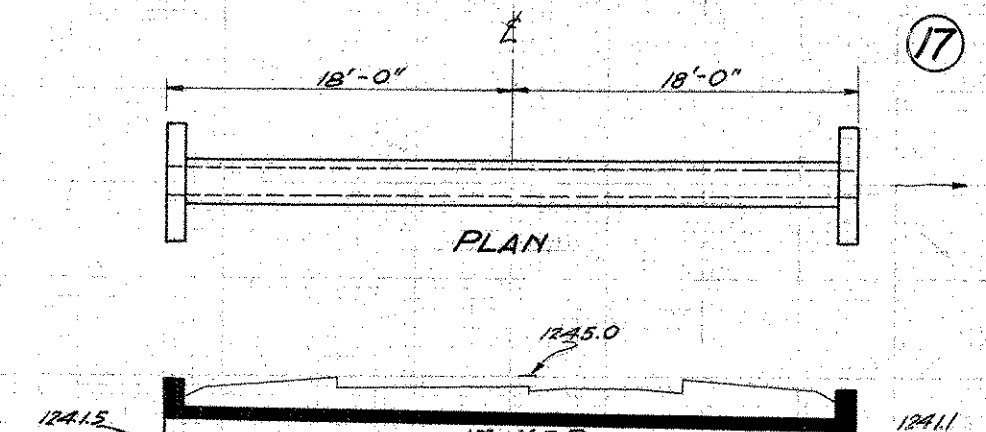
CULVERT DATA
Type V.S.P. Culv. Dr. #300.
Size 12"
Work Reg'd. Remove existing parapet on Rt. and special hillside headwall on Lt. Build 6' Ext. Rt. with Std. H'dw'l. and 4' Ext. Lt. with special Hillside Headwall.

EST. QUANTITIES
Excav. 10 Cu. Yds.
Conc. 1-5 1/2 3.2 Cu. Yds.
Conc. 1-8 0.9 Cu. Yds.
Reinf. Steel 72 Lbs.
12" V.S.P. 10 Lin. ft.
Dowels 4 Complete
Parapets 1 Removed
Headwalls 1 Removed

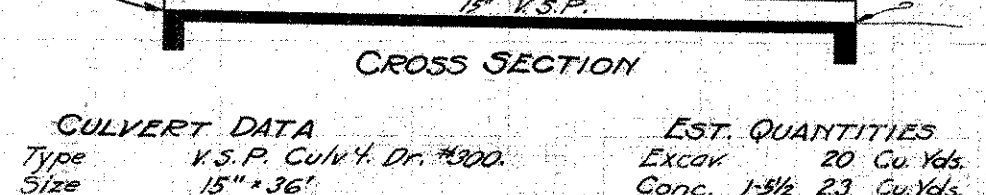
Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

STA. 676+54



PLAN



CROSS SECTION

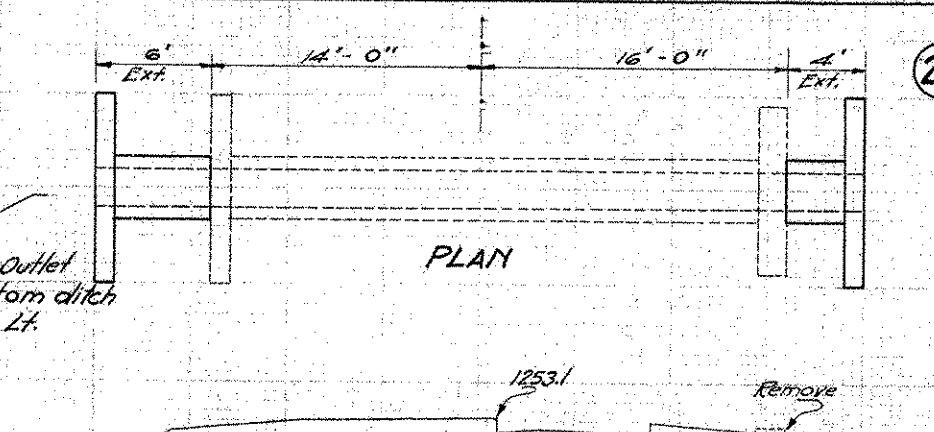
CULVERT DATA
Type V.S.P. Culv. Dr. #300.
Size 15" x 36"
Work Reg'd. Remove existing 10" x 28" C.I.P. and build new Std. 15" x 36" V.S.P. Culv.

EST. QUANTITIES
Excav. 20 Cu. Yds.
Conc. 1-5 1/2 2.3 Cu. Yds.
Conc. 1-8 4.4 Cu. Yds.
Reinf. Steel 70 Lb.
15" V.S.P. 36 Lin. ft.

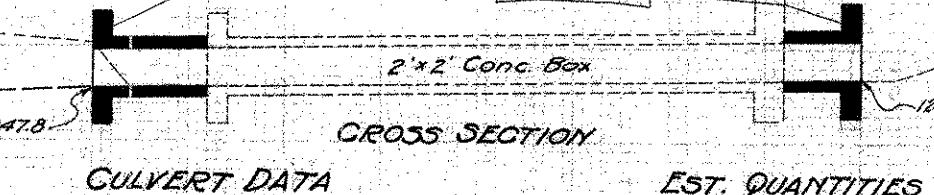
Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

STA. 687+17



PLAN



CROSS SECTION

CULVERT DATA
Type Std. Conc. Box Culv. Dr. #301.
Size 2' x 2'
Work Reg'd. Remove Rt. parapet. Build 4' Ext. Rt. and 6' Ext. Lt. with Std. 2' x 2' Conc. Box Culv.

EST. QUANTITIES
Excav. 30 Cu. Yds.
Excav. Channel 15 Cu. Yds.
Conc. 1-5 1/2 6.0 Cu. Yds.
Reinf. Steel 209 Lbs.
Parapets 1 Removed

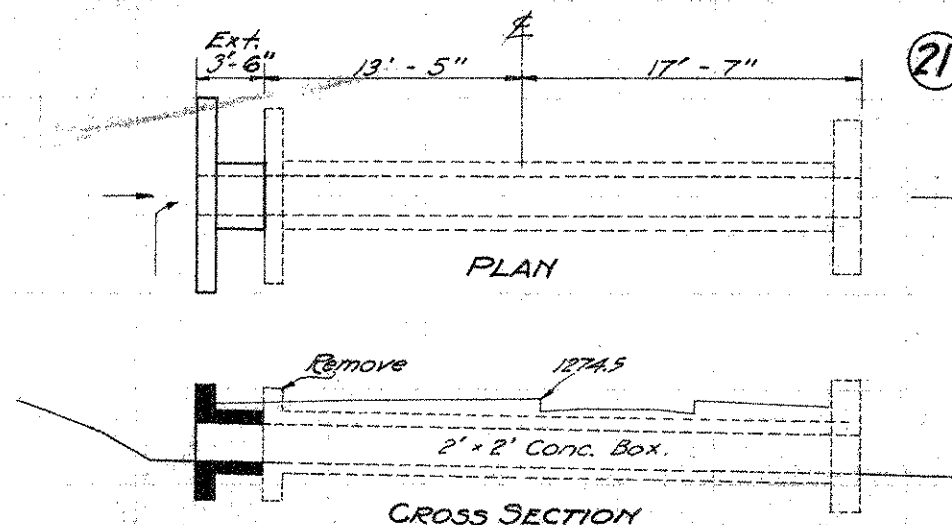
Drawn by G.R.H. 5-4-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

STA. 693+15

S.H. (I.C.H.) 15 SEC. J. K,
GEAUGA COUNTY.

25



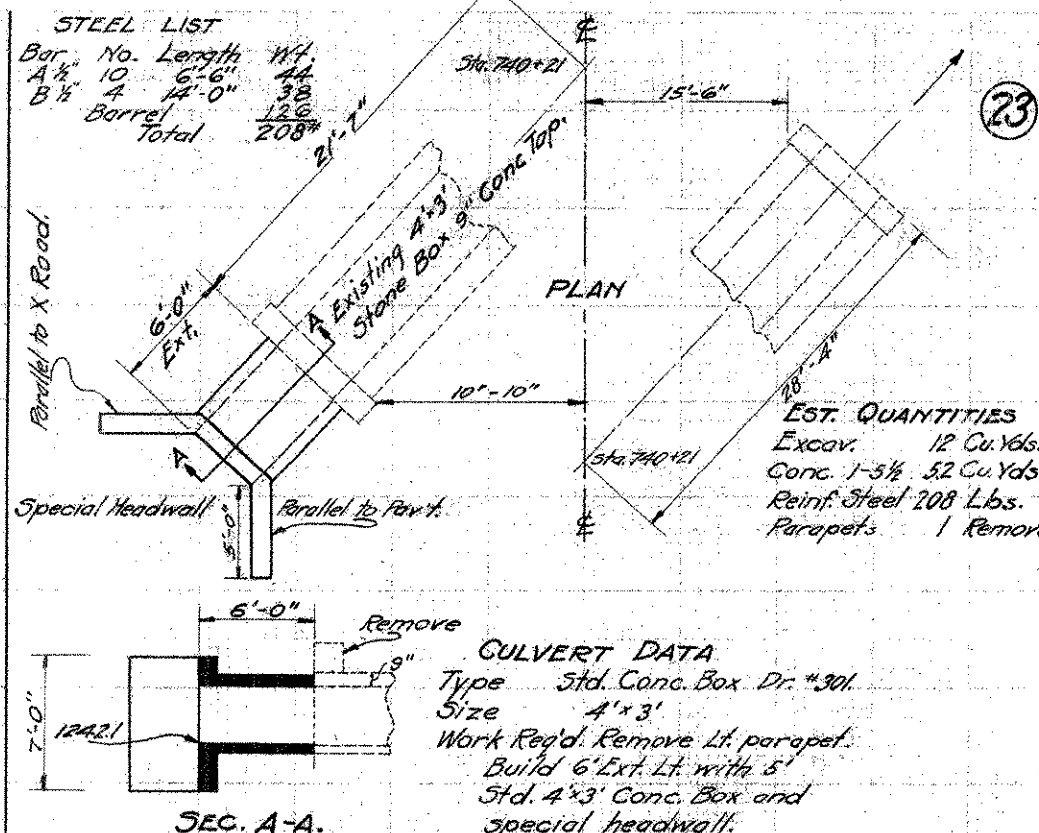
CULVERT DATA
Type Conc. Box Dr. #301
Size 2' x 2'
Work Reg'd. Remove Lt. parapet.
Build 3'-6" Ext. on Lt. with
Std. 2' x 2' Conc. Box Culv't.
Point old masonry

EST. QUANTITIES
Excav. 4 Cu. Yds.
Conc. 1-5/8 2.7 Cu. Yds.
Reinf. Steel 83 Lbs.
Parapets 1 Removed

Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

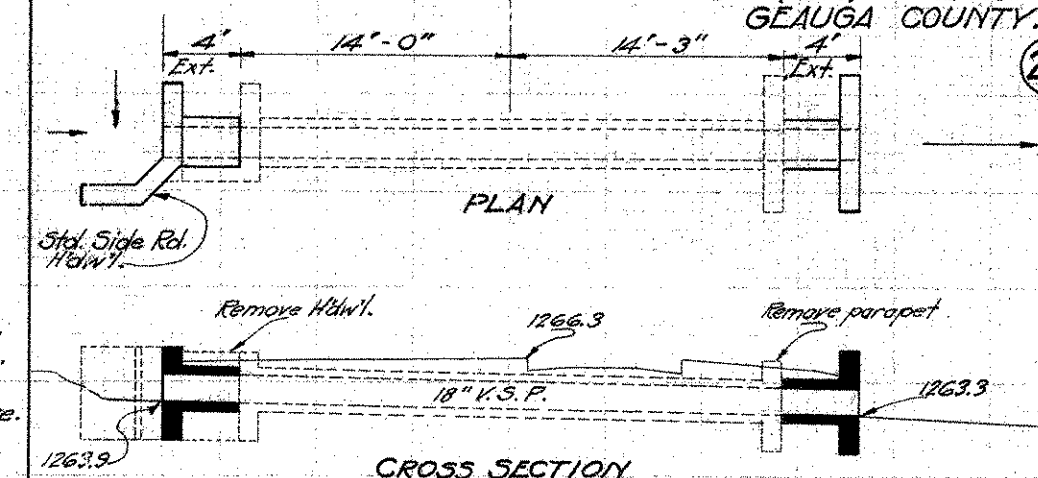
STA. 722+89



Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

STA. 740+21



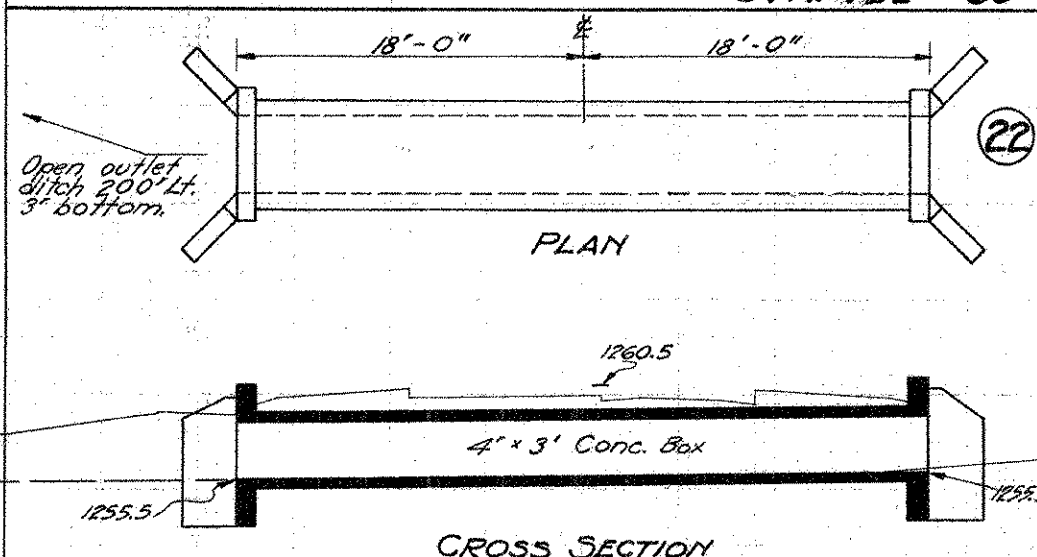
CULVERT DATA
Type V.S.P. Culv't. Dr. #300
Size 18"
Work Reg'd. Remove Rt. parapet and
Lt. Hdwl. Build 4' Ext. Rt. and
4' Ext. Lt. with Std. 18" V.S.P. Enc.
Build Std. Hdwl. Rt. and Std. Side Rd.
Hdwl. on Lt.

EST. QUANTITIES
Excav. 5 Cu. Yds.
Conc. 1-5/8 3.0 Cu. Yds.
Conc. 1-8 0.9 Cu. Yds.
Reinf. Steel 75 Lbs.
18" V.S.P. 8 Lin. ft.
Dowels 4 Complete
Parapets 1 Removed
Headwalls 1 Removed

Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W. Leggett
Date 5/21/29

STA. 766+12



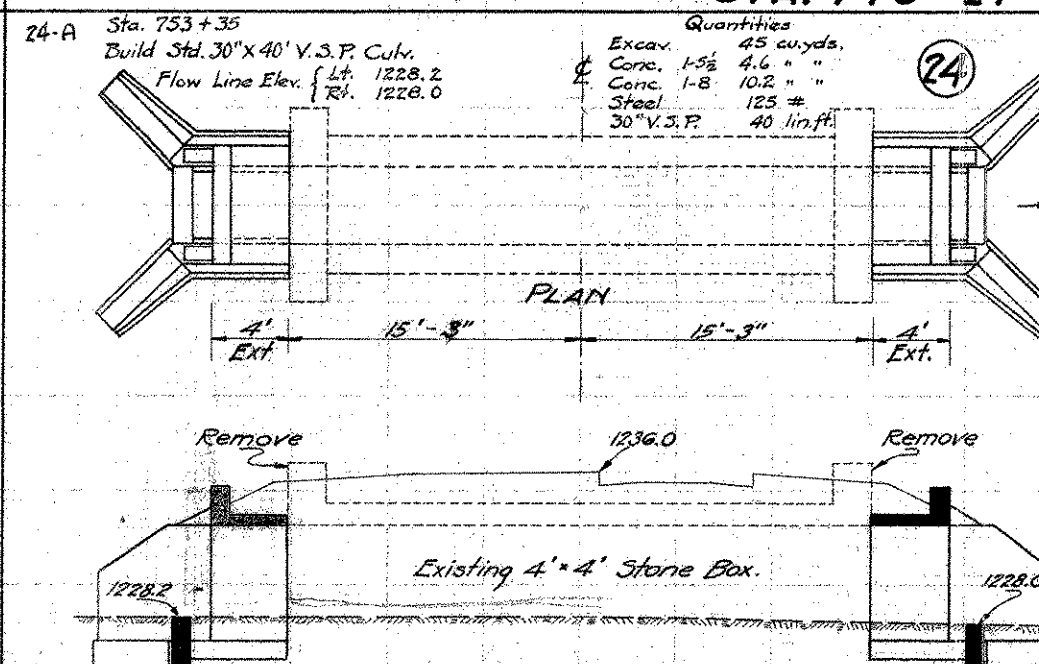
CULVERT DATA
Type Std. Conc. Box Culv't. Dr. #301.
Size 4' x 3' x 36"
Work Reg'd. Remove existing 4' x 2 1/2' x 29.6'
Stone and Conc. structure.
Build new Std. 4' x 3' x 36" Conc.
Box Culv't. Dr. #301.

EST. QUANTITIES
Excav. 40 Cu. Yds.
Excav. Channel 50 Cu. Yds.
Conc. 1-5/8 18.5 Cu. Yds.
Reinf. Steel 949 Lbs.

Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

STA. 730+37



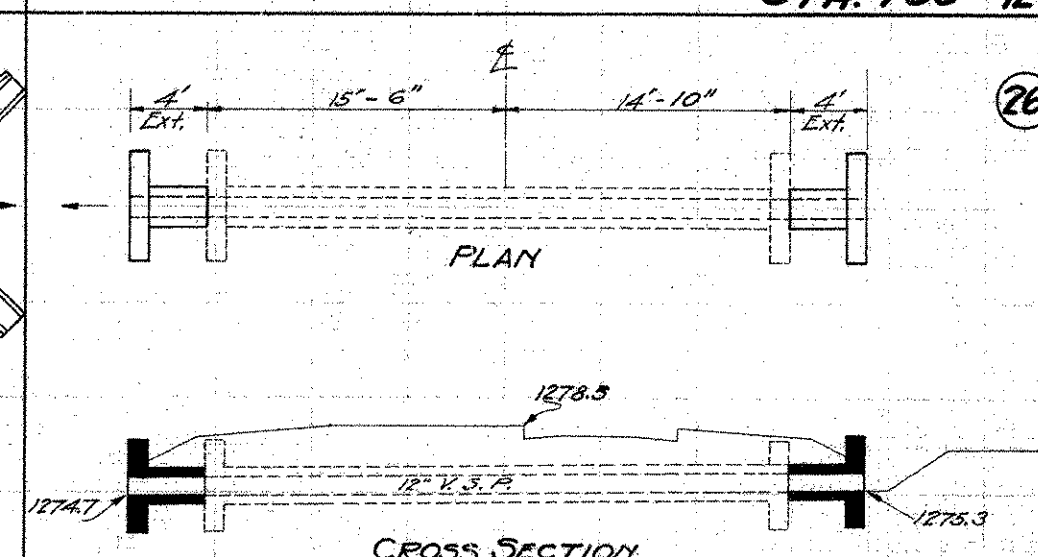
CULVERT DATA
Type Std. Slab top Culv't. Dr. #301.
Size 5' x 4' H = 4'
Work Reg'd. Remove existing parapets.
Build 4' Ext. Rt. & 4' Ext. Lt.
with Std. 4' x 5' slab top Culv't.

EST. QUANTITIES
Excav. 15 Cu. Yds.
Conc. 1-5/8 1.7 Cu. Yds.
Conc. 1-6 15.4 Cu. Yds.
Reinf. Steel 107 Lbs.
Parapets 2 Removed

Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

STA. 753+20



CULVERT DATA
Type Std. V.S.P. Culv't. Dr. #300.
Size 12"
Work Reg'd. Build 4' Ext. Rt. and
4' Ext. Lt. with Std. 12" V.S.P. Culv't.

EST. QUANTITIES
Excav. 6 Cu. Yds.
Conc. 1-5/8 2.0 Cu. Yds.
Conc. 1-8 0.6 Cu. Yds.
Reinf. Steel 65 Lbs.
12" V.S.P. 8 Lin. ft.
Dowels 8 Complete

Drawn by G.R.H. 5-3-29
Checked by

Div. Engr. D.W.L.
Date 5/21/29

STA. 784+66

30
31

S.H. (I.C.H.) 15. SEC. J K,
GEAUGA COUNTY.

NO.	STATION	TYPE	SIZE	LENGTH	EXCAVATION		CONCRETE			REINF.	VIT. SEWER PIPE			DOWELS	PAVING	REMOVE		C.I.P.	REMARKS				
					CULV'T.	CHANNEL	1-5½'	1-6½'	1-8'	STEEL	12"	15"	18"				N.O.	SQYDS.		N.O.	N.O.	LIN. FT.	
					CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	LBS.	LIN. FT.	LIN. FT.	LIN. FT.										
STRUCTURES 20' AND UNDER																							
1	558+90	Pipe	12"	34'	3		2.0		0.2	65	4			8			2		Build 2' Ext. Rt. & 2' Ext. Lt. with Std 12" V.S.P. Culv't.				
2	568+52	"	18"	34'	10		4.1		0.3	92			4	4	1.5		2		Build 2' Ext. Rt. & 2' Ext. Lt. with Std 18" V.S.P. Spcl. Hdw'l. Lt.				
3	577+81	"	12"	34'	8		3.2		0.2	72	4			4	1.2		2		Build 2' Ext. Rt. & 2' Ext. Lt. with Std 12" V.S.P. Spcl. Hdw'l. Lt.				
4	588+03	Box	4'x4'	37'	50		24.5			1089									Build new Std. 4'x4'x37' Conc. Box Culv't.				
5	590+88	Pipe	12"	38'	4		2.0		0.4	65	6			8			2		Build 2' Ext. Rt. & 4' Ext. Lt. with Std. 12" V.S.P. Culv't.				
6	596+72	"	12"	33½'	3		2.0		0.2	65	4			8			2		Build 2' Ext. Rt. & 2' Ext. Lt. with Std. 12" V.S.P. Culv't.				
7	609+48	Box	3'x3'	34'	45	7	15.7			763									Build new Std. 3'x3'x34' Conc. Box Culv't.				
8	622+45	Pipe	12"	36'	3		2.0		0.4	65	6			8			2		Build 4' Ext. Rt. & 2' Ext. Lt. with Std. 12" V.S.P. Culv't.				
9	627+40	"	12"	37'	4		2.0		0.7	65	8			8			2		Build 4' Ext. Rt. & 4' Ext. Lt. with Std. 12" V.S.P. Culv't.				
10	636+92	"	12"	43'	10		4.4		0.7	74	8				2.4		2	10'	Build 4' Ext. Rt. & 4' Ext. Lt. with 12" V.S.P. Std. Hillside Rt., Spcl. Lt.				
11	644+90	"	15"	38'	25	10	2.3		4.7	70		38							Build new Std. 15"x38" V.S.P. Culv't.				
13	667+90	"	12"	51½'	8		2.0		1.5	65	16			4					Build 10' Ext. Rt. & 6' Ext. Lt. with Std. 12" V.S.P. Culv't.				
14	671+18	"	15"	47'	6		2.3		1.0	70		10							Build 6' Ext. Rt. & 4' Ext. Lt. with Std. 15" V.S.P. Culv't.				
15	676+54	"	12"	39'	10		3.2		0.9	72	10			4	1.2	1	1		Build 6' Ext. Rt. & 4' Ext. Lt. with Std. 12" V.S.P. Spcl. Hdw'l. Lt.				
16	682+32	"	18"	40½'	10		4.1		0.9	92		8		4		1	1		Build 4' Ext. Rt. & 4' Ext. Lt. with Std. 18" V.S.P. Spcl. Hdw'l. Lt.				
17	687+17	"	15"	36'	20		2.3		4.4	70		36							Build new Std. 15"x36" V.S.P. Culv't.				
18	688+85	"	15"	40'	15		2.9		4.9	65		40							Build new Std. 15"x40" V.S.P. Side Rd. Culv't. on Lt.				
19	688+85	"	15"	40'	15		2.9		5.0	65		40							Build new Std. 15"x40" V.S.P. Side Rd. Culv't. on Rt.				
20	693+15	Box	2'x2'	40'	30	15	6.0			209							1		Build 4' Ext. Rt. & 6' Ext. Lt. with Std. 2'x2' Conc. Box Culv't.				
21	722+89	"	2'x2'	34½'	4		2.7			83							1		Build 3'x6" Ext. Lt. with Std. 2'x2' Conc. Box Culv't.				
22	730+37	"	4'x3'	36'	40	50	18.5			949									Build new Std. 4'x3'x36' Conc. Box Culv't.				
23	740+21	"	4'x3'	56'	12	15	5.2			208							1		Build 6' Ext. Lt. with Std. 4'x3' Conc. Box, Spcl. Hdw'l.				
24	753+20 753+35	Slab Top Pipe	4'x4'	38½'	15 43	15	1.7 2.6	15.4	10.2	107 125	107 125		40				2		Build 4' Ext. Rt. & 4' Ext. Lt. with Std. Slab Top Culv't.				
25	766+12	Pipe	18"	36'	5		3.0		0.9	75		8		4		1	1		Build 4' Ext. Rt. & 4' Ext. Lt. with Std. 18" V.S.P. Side Rd. Hdw'l. Lt.				
26	784+66	"	12"	38'	6		2.0		0.6	65	8			8					Build 4' Ext. Rt. & 4' Ext. Lt. with Std. 12" V.S.P. Culv't.				
Totals					406	82	122.6	15.4	38.1	4805	74	164	20	72	6.3	3	24	10					
					406		122.6		38.1	4805													
12	652+33	Girder	35'-18"																No work Required.				
Totals																							

SUMMARY OF QUANTITIES

SUMMARY OF EXCAVATION AND EMBANKMENT						
FROM STATION	TO STATION	CUBIC YARDS				
		Excav.	Emb.	Emb. 1 1/2%	Waste	Borrow
539+51.2	550+00	535	90	112	423	
550+00	560+00	435	210	262	173	
560+00	575+00	665	346	432	233	
575+00	590+00	1003	463	579	424	
590+00	600+00	556	69	86	470	
600+00	611+60	346	277	346		
611+60	621+77	299	239	299		
621+77	631+37	336	269	336		
631+37	645+00	610	278	347	263	
645+00	659+00	598	336	420	178	
659+00	664+50	501	384	480	21	
664+50	668+50	738	367	709	29	
668+50	678+00	678	529	661	17	
678+00	692+00	607	662	827	220	
692+00	706+00	677	374	467	210	
706+00	720+00	338	240	300	638	
720+00	734+00	1114	398	497	617	
734+00	748+00	1157	375	469	688	
748+00	758+00	716	448	560	156	
758+00	773+00	1311	402	502	809	
773+00	786+50	912	287	359	553	
786+50	793+47.25	299	116	145	154	
Totals		15091	7359	9195	6056	220

SUMMARY OF TYPE D GUARD RAIL			
FROM STATION	TO STATION	SIDE OF ROAD	LIN. FEET
651+63	652+11	Rt.	48
651+63	652+11	Lt.	48
652+55	653+51	Rt.	96
652+55	653+51	Lt.	96
658+10	660+50	Rt.	240
658+10	660+50	Lt.	240
667+40	668+36	Rt.	96
667+56	668+36	Lt.	80
Total			944

Bermes, Slopes and Ditches.

Length of project Sta 539+51.2 to 793+47.25 25,396.05
Deduct for B. & O.R.R. Sta 637+43 33.9'
Deduct for Bridge at Sta 652+33 37.5'
Total Deduction 71.4'
Total 25,324.65 Lin. ft.

SUMMARY OF CONCRETE PAVEMENT ITEMS										
REMARKS	CONCRETE			LEFT LIN. FEET	FROM STATION	TO STATION	RIGHT LIN. FEET	CONCRETE		REMARKS
	REMOVE	8'-8"	6'-6"					9'-7-9"	8'-8"	
	Sq. Yds.	Sq. Yds.	Sq. Yds.					Sq. Yds.	Sq. Yds.	
9'wide Curve	852.95	177.96		77.396	661+44.72	669+18.68				
10' Transition	88.88	88.88		80	669+18.68	669+28.68				
10' Resurface			2,134.80	192.132	669+28.68	689+20				
10' Transition	88.88	88.88		80	689+20	690+00				
10' Transition	88.88	88.88		80	726+00	726+80				
10' Resurface			488.88	440	726+80	731+20				
10' Transition	88.88	88.88		80	731+20	732+00				
Subtotal/s	1215.47	1,129.48	2,623.68		539+89.00	637+39.30	9750.30	8,666.90		8' widening
					637+39.30	652+14.25	1,441.05	1,280.23		5' widening
					652+14.25	661+44.72	892.97	793.75		8' widening
					661+44.72	669+18.68	773.96	773.96		9'wide Curve
					669+18.68	793+47.25	17,856.25	11,047.62		8' widening
							21,789.20	17,396		Subtotal/s
TOTALS										
Old Pavt. Removed				1,215.5 Sq. Yds.						
9-7-9 Conc. Pavt.				21,789.20 Sq. Yds.						
8-8 Conc. Pavt.				1,903.44 Sq. Yds.						
6-6 Conc. Pavt.				2,623.68 Sq. Yds.						
Old Pavt. Removed				2,000 Sq. Yds. Where Directed.						
8-8 Conc. Pavt.				2,000 Sq. Yds. Where Directed.						
65 Cu. Yds. 1-5% Concrete, placed where directed to correct crown & end of existing Pavt.										

SUMMARY OF VIT. SEWER PIPE FOR STORM SEWER AND UNDER DRAINS									
From Station	To Station	Side	Vit. Sewer Pipe Slog back fill	Vit. Sewer Pipe					
				8"	10"	12"	15"	18"	
542+55	543+95	Lt.							
632+38	636+68	Lt.		430					
638+51	638+61	Lt.							10
646+08	650+18	Rt.		410					
663+80	666+80	Rt.	300						
669+26	670+46	Lt.	120						
679+50	681+80	Rt.	230						
685+00	686+14	Lt.		114					
694+66	695+46	Lt.				80			
754+30	755+38	Lt.					168		
784+70	788+40	Rt.	370						
785+50	788+40	Lt.	290						
788+42	790+72	Rt.			230				
788+42	790+54	Lt.			212				
790+74	793+18	Rt.				244			
790+56	793+08	Lt.				252			
793+10	796+14	Lt.				260			
Totals			1310	954	442	976	168	10	

SUMMARY OF STD. No. 2 CATCH BASINS

Sta 788+41	Rt. Side
Sta 788+41	Lt. "
Sta 790+73	Rt. "
Sta 790+55	Lt. "
Sta 793+19	Rt. "
Sta 793+09	Lt. "
Total 6 Complete.	

SUMMARY OF REINF. CONC. PIPE FOR DRIVEWAYS				
STATION	SIDE	LIN. FT. OF PIPE		
		10"	12"	15"
+542+35	Lt.		40	
+542+89	Rt.		20	
+545+03	Rt.	20		
+549+00	Rt.	20		
+552+55	Lt.		20	
+552+68	Rt.		20	
+555+00	Lt.		20	
+566+25	Rt.		20	
+566+40	Lt.			20
+580+53	Lt.			20
+585+54	Lt.			20
+592+20	Lt.	20		
+595+52	Lt.	20		
+595+54	Rt.	20		
+597+85	Lt.	20		
+608+30	Lt.		20	
+610+63	Rt.		20	
+611+40	Lt.		20	
+612+60	Lt.		20	
+614+20	Rt.	20		
+614+65	Lt.	20		
+614+80	Rt.	20		
+615+58	Lt.	20		
+618+75	Rt.	20		
+622+82	Lt.		20	
+624+52	Lt.	20		
+626+80	Rt.	20		
+628+25	Rt.	20		
+628+43	Lt.	20		
+633+10	Rt.		20	
+633+75	Rt.		20	
+634+63	Rt.		20	
+636+78	Lt.		20	
+642+02	Rt.		20	
+645+38	Rt.	20		
+657+08	Rt.			20
+665+00	Lt.	20		
+666+30	Rt.	20		
+669+16	Lt.	20		
+670+56	Lt.	20		
+677+20	Lt.		20	
+678+70	Lt.		20	
+679+07	Rt.		20	
+681+53	Lt.	20		
+682+25	Lt.		20	
+686+24	Lt.	20		
+695+58	Lt.		20	
+701+69	Rt.		20	
+704+34	Lt.		20	
+709+82	Lt.		20	
+717+70	Rt.			20
+725+57	Rt.		20	
+735+25	Lt.	20		
+748+73	Lt.			20
+750+76	Rt.			20
+756+08	Lt.			20
+762+00	Lt.		20	
+765+15	Rt.	20		
+770+12	Lt.			20
+771+00	Rt.		20	
+774+06	Rt.		20	
+782+03	Lt.		20	
Totals		480	600	180