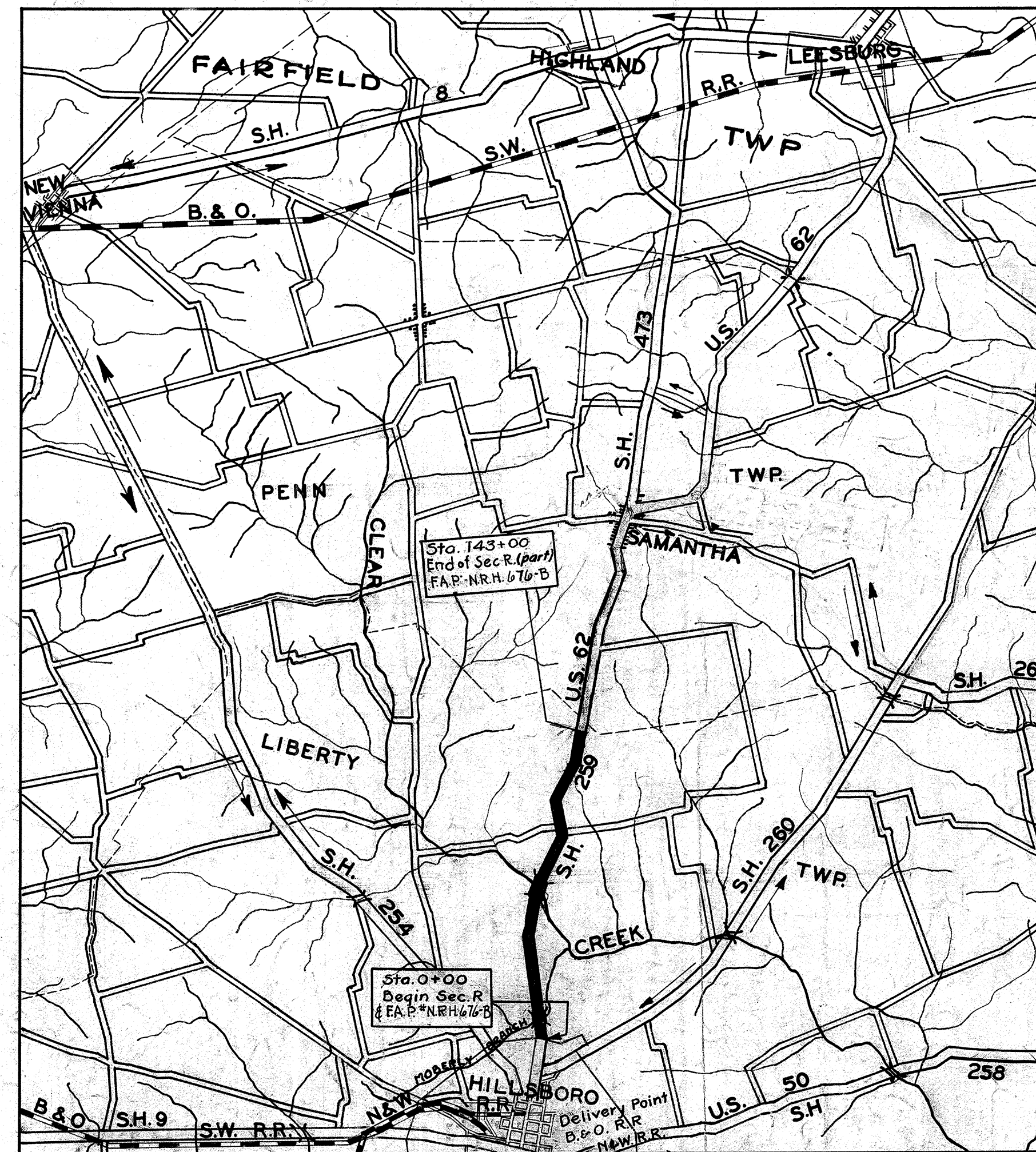


STATE OF OHIO
DEPARTMENT OF HIGHWAYS
HILLSBORO-WASHINGTON C.H. ROAD
HIGHLAND COUNTY

S.H. 259 LIBERTY AND PENN TOWNSHIPS SEC. R. & L.
BUREAU OF CONSTRUCTION

NET LENGTH OF PROJECT 14306.60 LIN. FT.

BRIDGE NOS. HI-62-162 & HI-62-174



LOCATION PLAN

SCALE OF MILES



PORTION TO BE IMPROVED

SCALES

NRH-676-B

U. S. PUBLIC WORKS
PROJECT NO.

FED. AID DIST. NO.	STATE	FED. AID PROJECT YEAR	FISCAL YEAR
10	OHIO	N.R.H. 676-B	1933

1
34

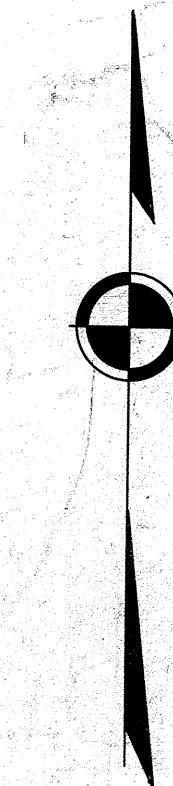
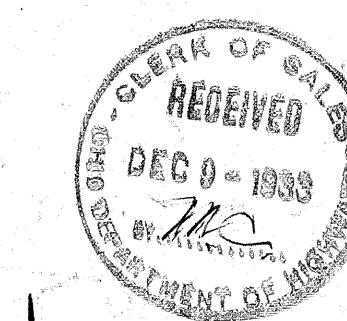
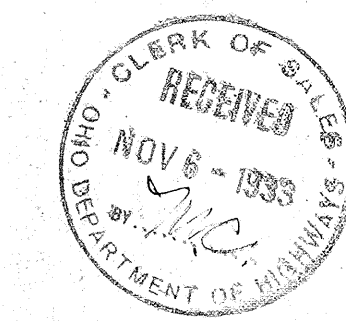
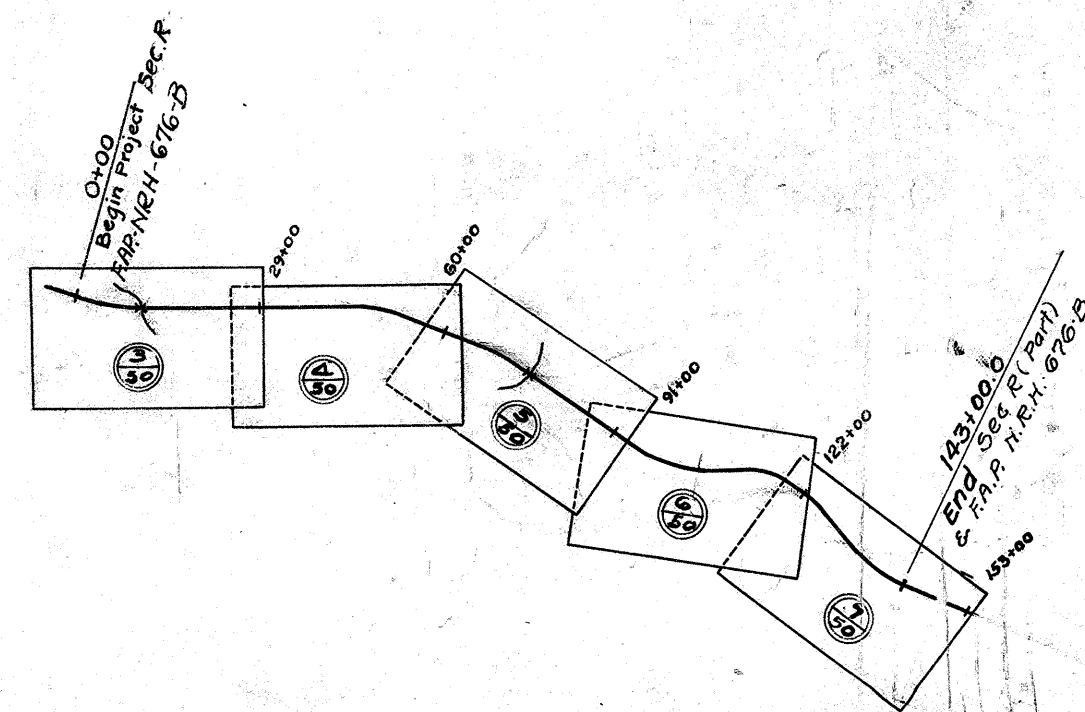
HIGHLAND COUNTY
S.H. 259 SEC. R (PART)

CONVENTIONAL SIGNS

TOWNSHIP LINE	-----
VILLAGE LINE	-----
CENTER LINE	-----
PROPERTY LINE NOT FENCED	-----
FENCE	-----
STEAM RAILROAD	=====
GUARD RAIL	-----
NEW DRAIN PIPE	-----
OLD DRAIN PIPE	-----

INDEX OF SHEETS

TITLE PAGE	PAGE
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CROSS SECTIONS	10 - 20
STRUCTURE DETAILS	21 - 33
SUMMARY OF QUANTITIES	34



The Standard Specifications of the State of Ohio, Department of Highways, together with the Supplemental Specifications for National Recovery Highway Funds Projects, 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 of the highway to traffic and that detours will be provided as indicated on the plans.

The necessary right of way has been provided.

Approved Date 6/16/33 D. P. Roush
Resident District Deputy Director

Approved Date 7-5-33 W. Anderson
Resident Division Deputy Director

Approved Date _____ Chief Engr Bureau of Maintenance

Approved Date 12/5/33 Elmer Hiltz
Chief Engr Bureau of Construction

Approved Date 9-23-33 J. Buckley
Chief Engr Bureau of Bridges

Approved Date 12-7-33 H. P. Chapman
First Assf. Director and Chief Engr.

Approved Date 12-7-33 W. Menel
Director of Highways

CONSTRUCTION BUREAU
AUG 17 1936
GROUND PHOTOLAB

CHK For Black Base Widely 7-00
Width Embankment 11-00
Width Embankment 12-00

TYPICAL SECTIONS

SEC. R

SCALE OF FEET

TYPE - T-50, Std. Dwg. B-T-50-60

NOTE: Regarding the clause in the Specifications for the above project which reads as follows:
 "The work covered by this contract shall be conducted in such a manner that maximum employment of labor is afforded, so far as is practicable, during the life of the contract."
 The contractor shall commence construction operations immediately upon execution of the contract, and will prosecute during the winter months the work pertaining to side drainage and structures and to perform such work of grading, paving and finishing of berms as may be permitted or requested by the Director.

ROADWAY DRAINAGE: In lieu of the provisions for the backfilling of pipe for roadway drainage, as set forth in Item I-3.05 in the General Specifications, requiring tamping of backfilling in four inch layers. Such tamping will be required only up to a point in the trench equal to two-thirds of the diameter of the pipe, and a pneumatic tamper will not be required.

FED.AID DIST.NO.	STATE	FED.AID PROJECT YEAR	FISCAL YEAR
10	OHIO	676-B	1933

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HIGHLAND COUNTY
S. H. 259 SEC. R (PART)

U. S. PUBLIC WORKS
PROJECT NO.

Schedule of New Base

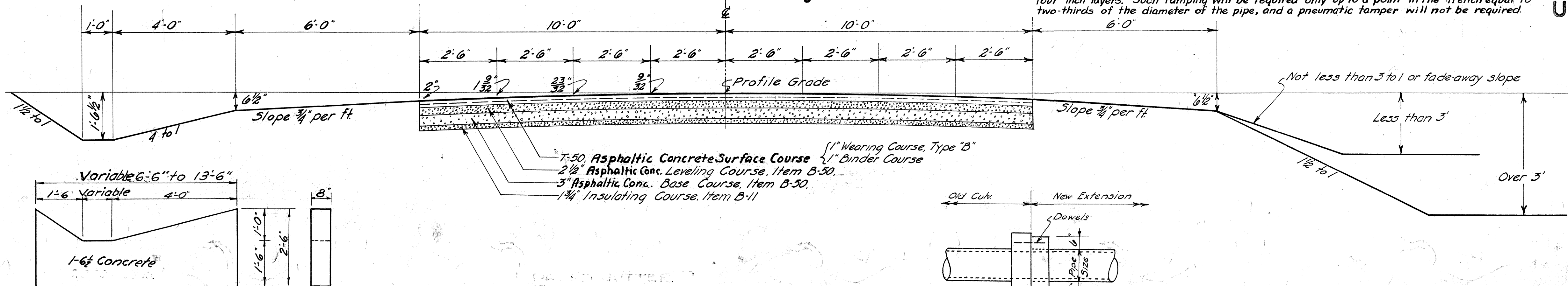
Station to	Station	Lin. Ft.
5+00.00	10+19.86	519.86
11+20.14	13+75.00	254.86
32+75.00	38+25.00	550.00
47+50.00	51+00.00	350.00
62+50.00	72+82.89	1032.89
73+59.11	79+65.00	605.89
113+00.00	120+00.00	700.00
135+00.00	143+00.00	800.00
149+86.25	149+91.75	
165+25.00	170+50.00	
223+55.00	231+00.00	
235+75.00	244+00.00	
250+96.00	251+24.00	

Total 4873.50

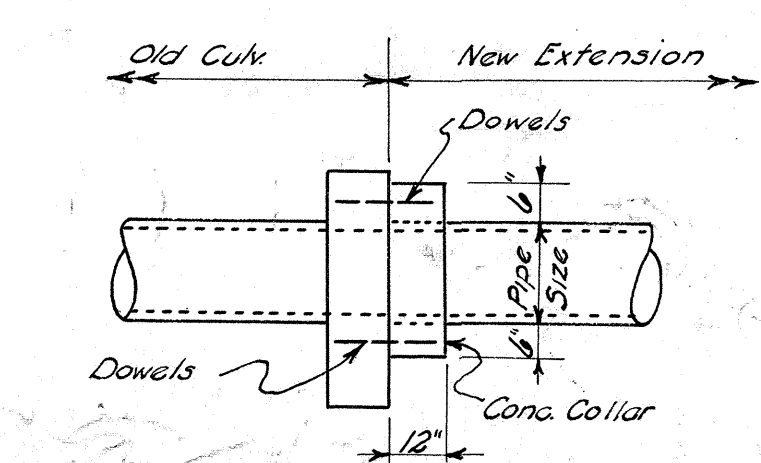
Schedule of Old Base to be widened.

Station to	Station	Lin. Ft.
0+00.00	5+00.00	500.00
13+75.00	32+75.00	1900.00
38+25.00	47+50.00	925.00
51+00.00	62+50.00	1150.00
79+65.00	113+00.00	3341.60
120+00.00	135+00.00	1500.00
143+00.00	149+86.25	
149+91.75	165+25.00	
170+50.00	223+55.00	
231+00.00	235+75.00	
244+00.00	250+96.00	
251+24.00	261+27.90	

Total 9316.60



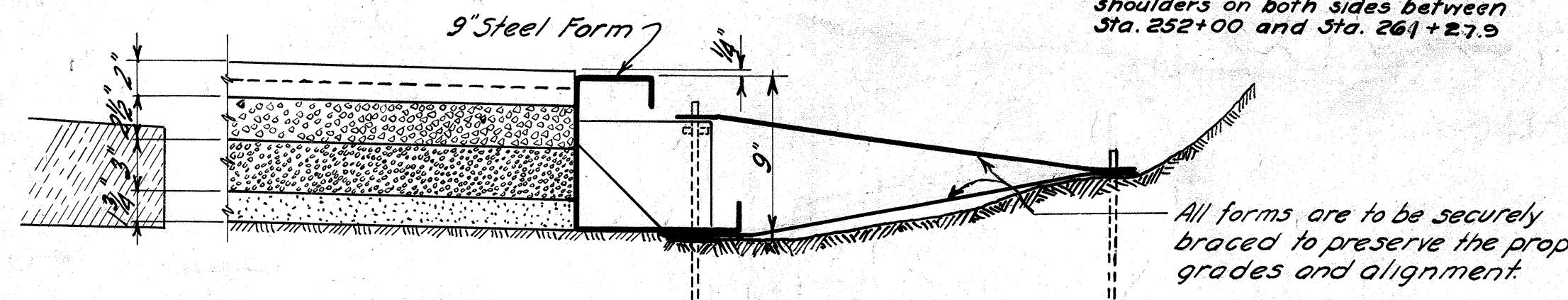
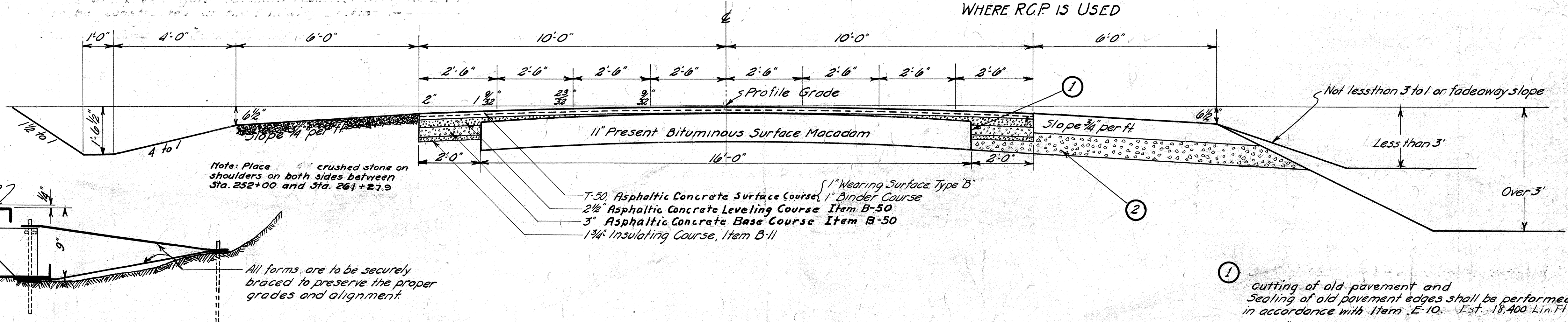
DITCH CHECK
 Note: Fifty ditch checks according to the above design to be placed as directed by the engineer in charge.



TYPICAL EXTENSION JOINT WHERE R.G.P. IS USED

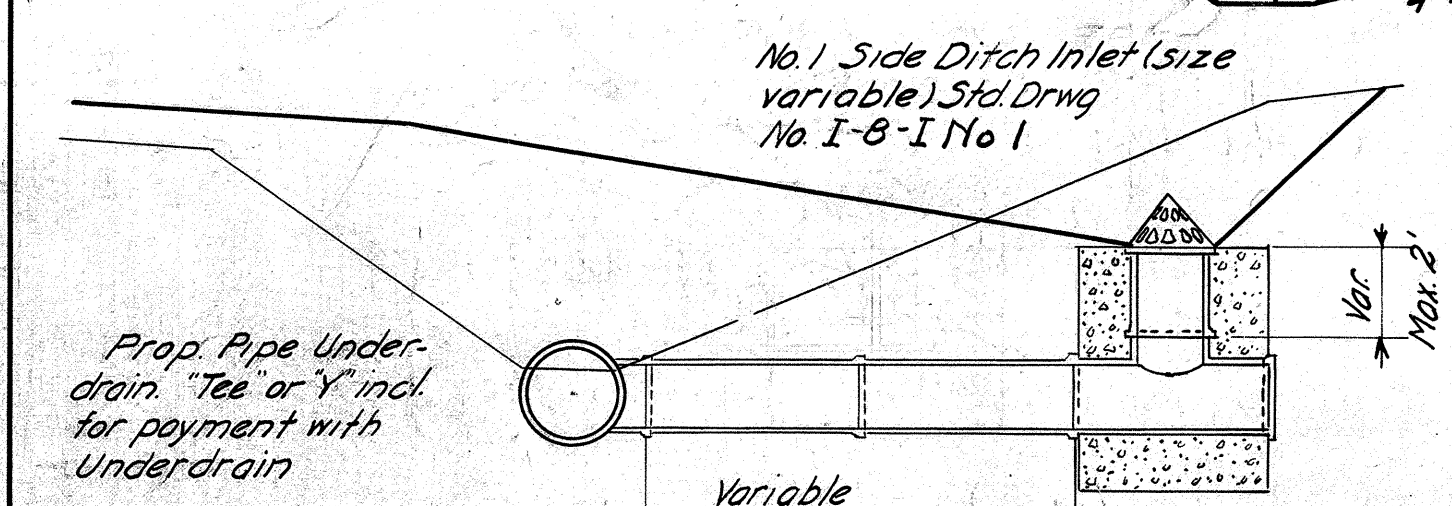
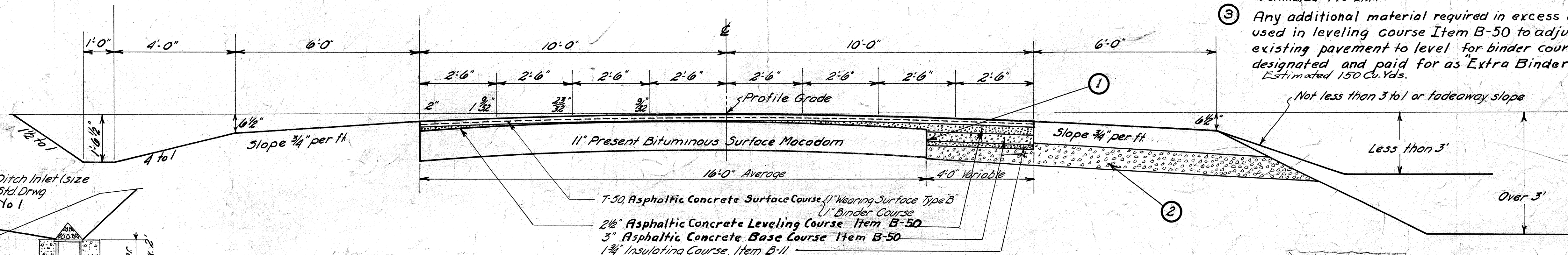
Old pavement depth measured in field.

Station	Stone
1+00	11"
12+00	13"
22+00	12"
32+00	11"
42+00	12"
55+00	10"
70+00	12"
80+00	11"
95+00	12"
110+00	11"
121+00	12"
135+00	10"
145+00	10"
160+00	11"
183+00	11"
196+00	12"
210+00	11"
225+00	12"
235+00	11"
249+00	11"



ACCEPTABLE CONSTR. METHOD FOR BRACING FORMS

- cutting of old pavement and Sealing of old pavement edges shall be performed in accordance with Item E-10. Est. 18,400 Lin.Ft.
- 10" x 8" Standard No 2 loose stone drains shall be placed at depressions or as directed by the Engineer (Item I-9) Estimated 170 Lin.Ft.
- Any additional material required in excess of that used in leveling course Item B-50 to adjust the existing pavement to level for binder course to be designated and paid for as Extra Binder Item T-50 Estimated 150 Cu.Yds.



TYPICAL INLET

The Side Ditch Inlet and the lateral to the pipe underdrain are included in the price bid per Inlet

OK. as to bit. construction
 O.V.L. 8-5-33
 M.C. 8-1-33
 ASD

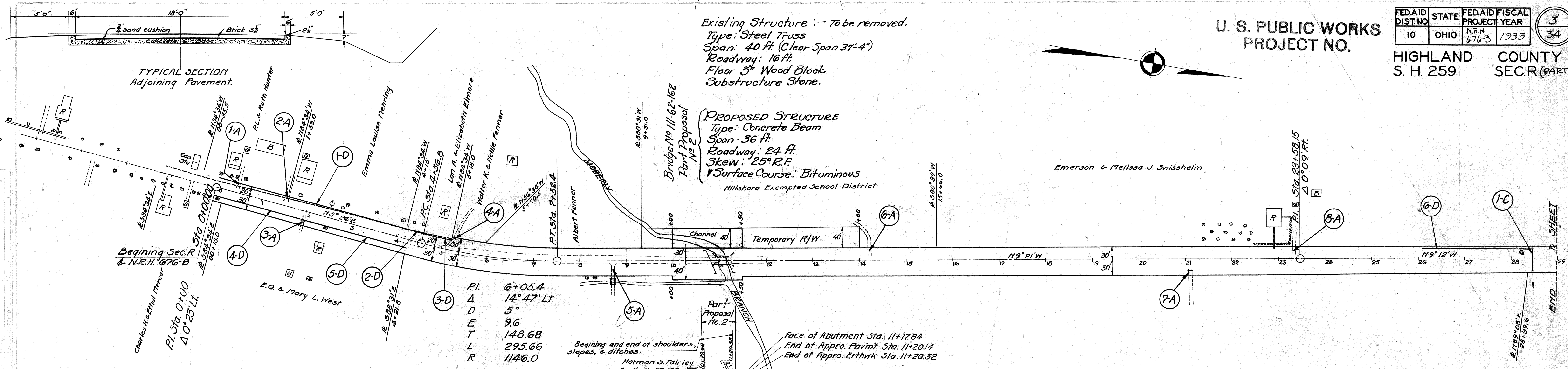
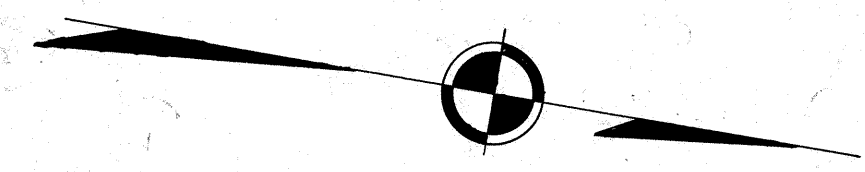
Traffic will be maintained as directed by the Engineer except during the placing of bituminous material

Note: All berms, slopes, and ditches to be finished in accordance with these drawings except where shown otherwise on cross-section sheets.

Note: Payment for removal of trees is included in payment for Roadway Excavation, Item E-1.

Existing Structure :- To be removed.
Type: Steel Truss
Span: 40 ft. (Clear Span 37'-4")
Roadway: 16 ft.
Floor 3" Wood Block
Substructure Stone.

PROPOSED STRUCTURE
Type: Concrete Beam
Span - 36 ft.
Roadway: 24 ft.
Skew: 25° R.F.
Surface Course: Bituminous
Hillsboro Exempted School District



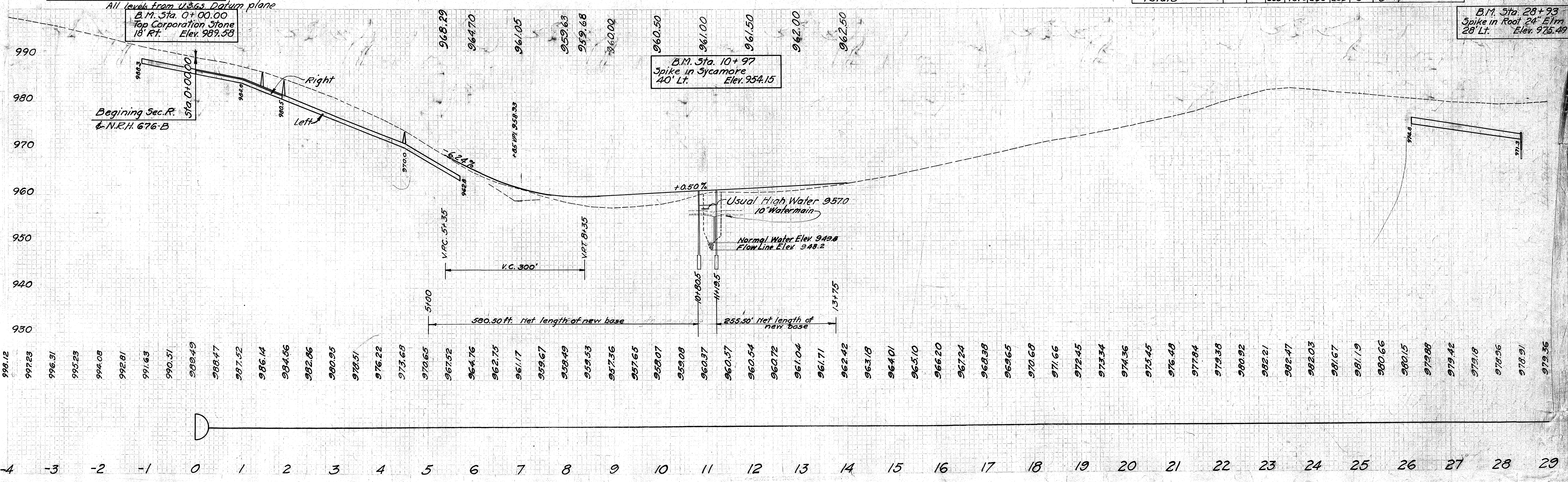
P.I.	6+05.4
Δ	14° 47' Lt.
D	5°
E	96
T	148.68
L	295.66
R	1146.0

Item No.	Station	Rt. of Lt.	Place	Relay
1-A	0+37	Lt.		1.0
2-A	1+33	Lt.		1.0
3-A	1+97	Rt.	4	2.0 16
4-A	5+19	Lt.		4.0
5-A	8+70	Rt.		4.0
6-A	14+21	Lt.		2.0
7-A	21+16	Rt.	20	2.0
8-A	23+30	Lt.		1.0
Totals			24	17 16

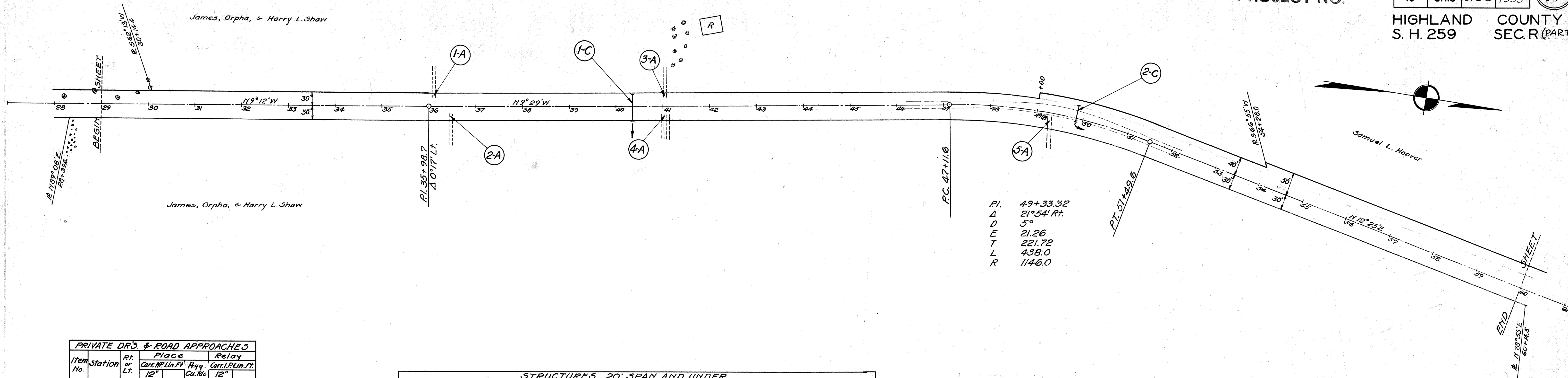
Item No.	Station	Type	Size	Remarks
1-G	28+45	Conc. box	24x25x33	No work required

Item No.	Station	Rt. of Lt.	Relay	Type	Size	Length	New Work	Remarks			
1-D	0+117	4+10	Lt	tile	12	327	1	Join to 1-D & 3-D			
2-D	4+10	4+63	Lt				53				
3-D	4+63	5+69	Lt	tile	12	106	1				
4-D	0+00	1+87	Rt				187				
5-D	2+07	4+22	Rt				215				
6-D	26+10	28+45	Lt				235				
Totals						633	187	268	235	3	3

All pipe shall have cemented joints where same are within 25' of trees, or where directed by the Engineer.

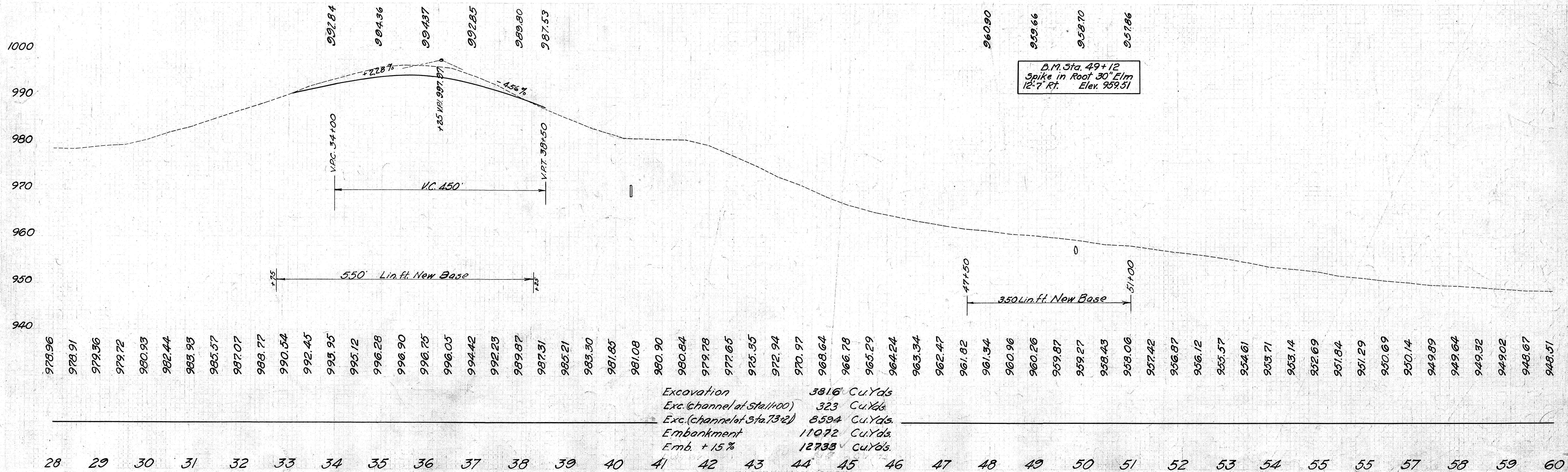


B.M. Sta. 28+93
Spike in Root 24' Elm
28' Lt. Elev. 975.49



Item No.	Station	Rt. or Lt.	Place		Relay	
			Corr. N.P. Lin. Ft.	Agg. Cu. Yds.	Corr. L.P. Lin. Ft.	12"
1-A	36+05	Lt.		2.0		
2-A	36+45	Rt.		2.0		
3-A	41+17	Lt.		2.0		
4-A	41+27	Rt.		4.0		
5-A	49+22	Rt.		2.0		
Totals				12.0		

Item No.	Station	Type	Size	Removal of old structure	Remarks
1-C	40+32.5	Conc. box	26'x26'x60"		No work required
2-C	49+33	C.I. Pipe	24'x38'	Lump	Payt for backfill included in lumpsum



PRIVATE DR'S & ROAD APPROACHES						
Item No.	Station	Rt. or Lt.	Place		Relay	
			Corr. P. Lin. Ft.	Agg. Cu. Yds.	Corr. I. P. Lin. Ft.	Agg. Cu. Yds.
1-A	60+13	Rt.	20	2.0	12"	15"
2-A	61+02	Lt.	20	2.0		
3-A	65+88	Rt.		2.0		
4-A	71+00	Lt.		2.0		
5-A	71+50	Rt.		4.0		
6-A	75+40	Lt.		2.0		
7-A	85+43	Lt.	4	2.0		16
8-A	85+56	Rt.	4	2.0		16
9-A	71+20	Rt.		4.0		
Totals			40	8	22.0	32

EXISTING STRUCTURE
 Type: Pratt Steel Truss
 Span: 112' % c pins
 Roadway Width: 14'
 To BE REMOVED

PROPOSED STRUCTURE
 Type: Steel I-beam span
 with Concrete Deck.
 Span: 72' % c pins
 Roadway Width: 24'
 Skew: 25° L.F.
 Surface Course: Bituminous

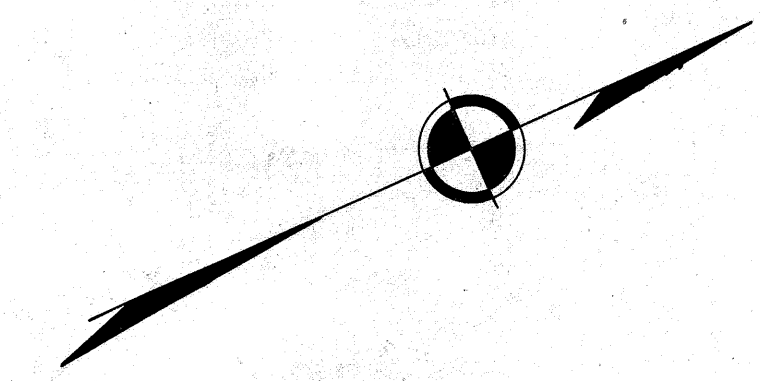
U. S. PUBLIC WORKS
 PROJECT NO.

FED. AID DIST. NO.	STATE	FED. AID PROJECT YEAR	FISCAL YEAR
10	OHIO	676-B	1933

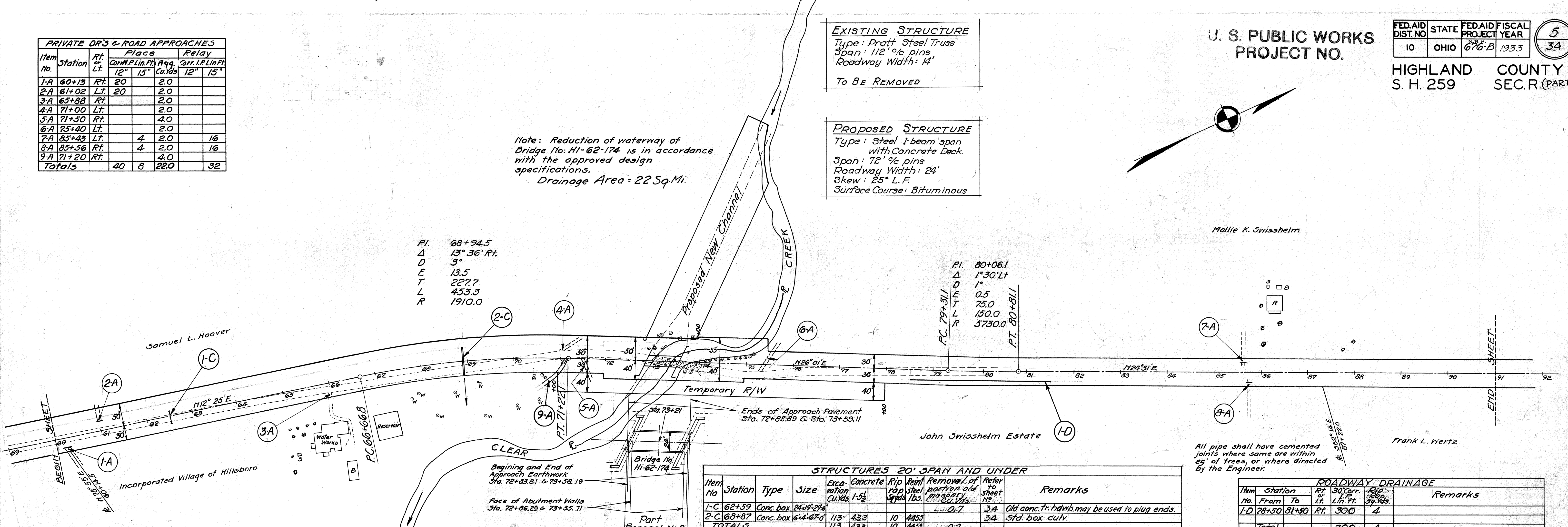
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34

HIGHLAND COUNTY
 S. H. 259 SEC. R (PART)

Note: Reduction of waterway of Bridge No. HI-62-174 is in accordance with the approved design specifications.
 Drainage Area = 22 Sq. Mi.



Mollie K. Swisshelm



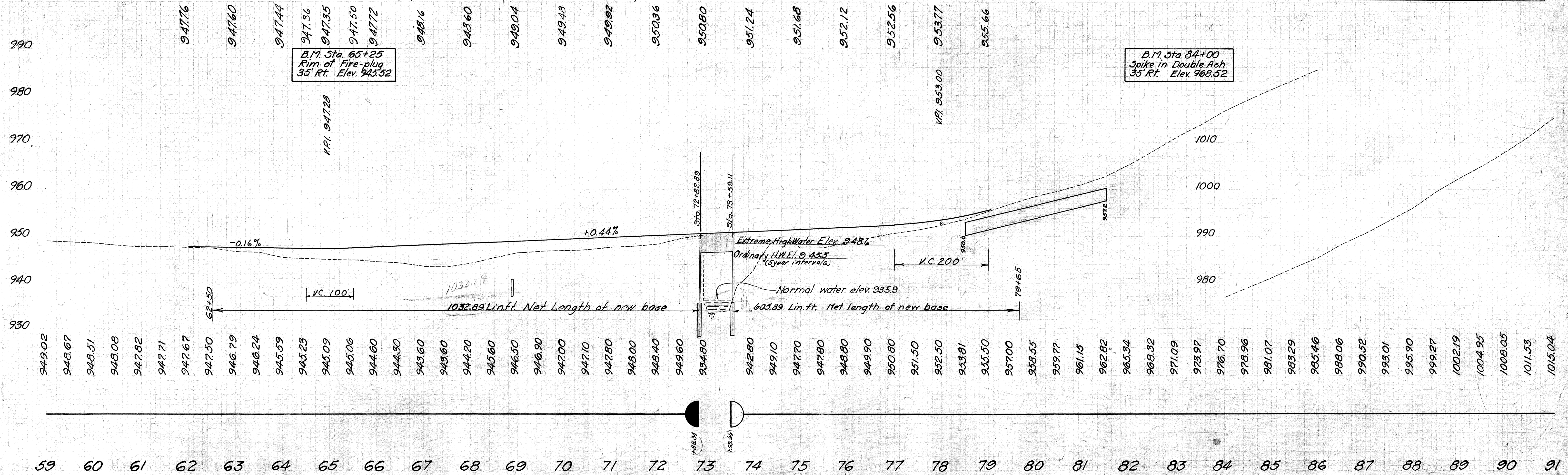
P.I. 68+94.5
 Δ 13° 36' Rt.
 T 3°
 L 13.5
 E 227.7
 R 453.3
 R 1910.0

P.I. 80+06.1
 Δ 1° 30' Lt
 T 1°
 L 0.5
 E 75.0
 R 150.0
 R 5730.0

STRUCTURES 20' SPAN AND UNDER										
Item No.	Station	Type	Size	Excavation Cu. Yds.	Concrete	Rip rap sq. Yds.	Rein. lbs.	Removal of existing masonry Cu. Yds.	Refer to sheet No.	Remarks
1-C	62+59	Conc. box	24' x 19' x 24"	113	43.3	10	4455	2.0	34	Old conc. fr. hdw. may be used to plug ends.
2-C	68+87	Conc. box	16' x 16' x 0"	113	43.3	10	4455	2.0	34	Std. box culv.
TOTALS				113	43.3	10	4455	2.0		

All pipe shall have cemented joints where same are within 25' of trees, or where directed by the Engineer.

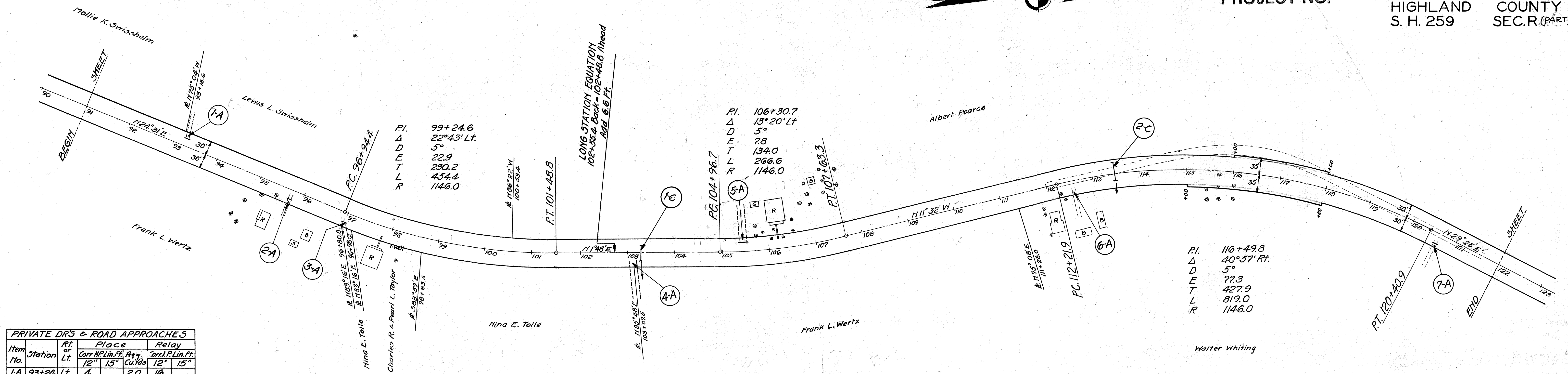
ROADWAY DRAINAGE					
Item No.	Station	Rt. or Lt.	30' Corr. Lin. Ft.	4" Dia. Pipe Sq. Yds.	Remarks
1-D	78+50	Rt.	300	4	
Total			300	4	



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HIGHLAND COUNTY
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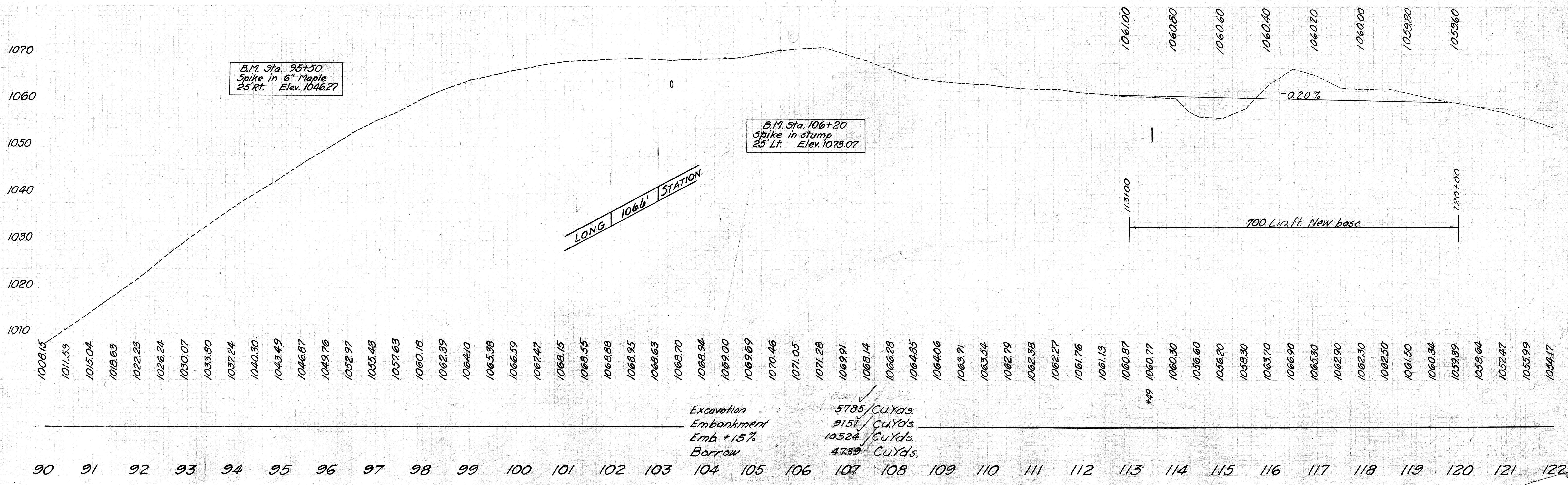


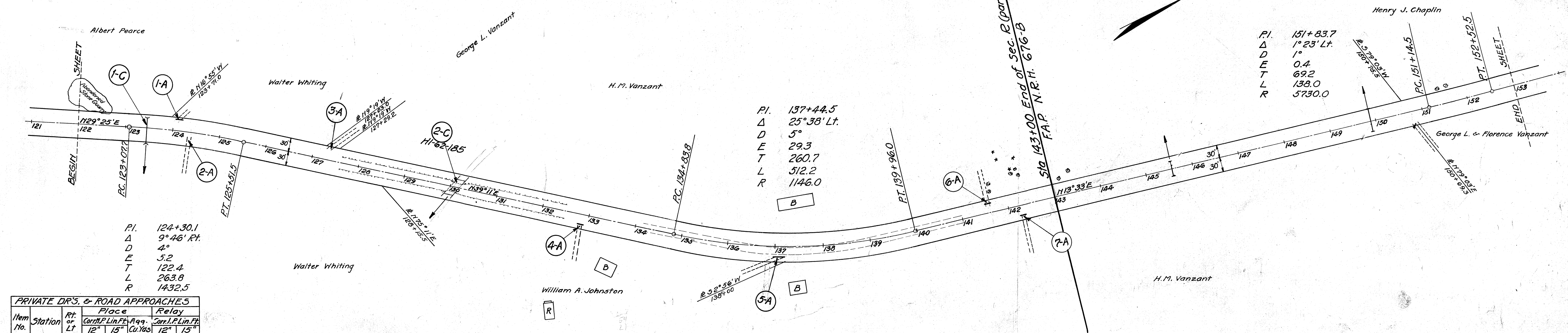
PRIVATE DR'S & ROAD APPROACHES

Item No.	Station	Rt. or Lt.	Place		Relay		
			Corr. H. Ft.	Corr. L. Ft.	Corr. H. Ft.	Corr. L. Ft.	
1-A	93+24	Lt.	4	2.0	16		
2-A	95+50	Rt.	4	2.0	16		
3-A	96+88	Rt.	4	2.0	16		
4-A	103+07	Rt.	4	4.0			
5-A	105+48	Lt.	40	4.0			
6-A	112+55	Rt.	2	2.0			
7-A	120+61	Rt.	10	2.0	10		
Totals			58	4	18.0	42	16

STRUCTURES 20' SPAN AND UNDER

Item No.	Station	Type	Size	Excavation Cu.Yds.	Con. crete cu.Yds.	Reinf. Steel lbs.	Pipe I.C. Pipe Lin. Ft.	Dowel holes Lin. Ft.	Rip rap Sq. Yds.	Relay to existing roadway no.	Remarks
1-C	103+30	Pipe	18"x12"0	1		24	17.0	8	4.0	34	Ext. with std. barrel.
2-C	113+49	Conc. box	4'-3"x14'-0"	3	5.9	563		6		34	Ext. with std. barrel.
Totals				4	5.9	587	17.0	14	4.0		0.8





PI. 124+30.1
Δ 9°46' RT.
D 4°
E 5.2
T 122.4
L 263.8
R 1432.5

PI. 137+44.5
Δ 25°38' Lt.
D 5°
E 29.3
T 260.7
L 512.2
R 1146.0

PI. 151+83.7
Δ 1°23' Lt.
D 1°
E 0.4
T 69.2
L 138.0
R 5730.0

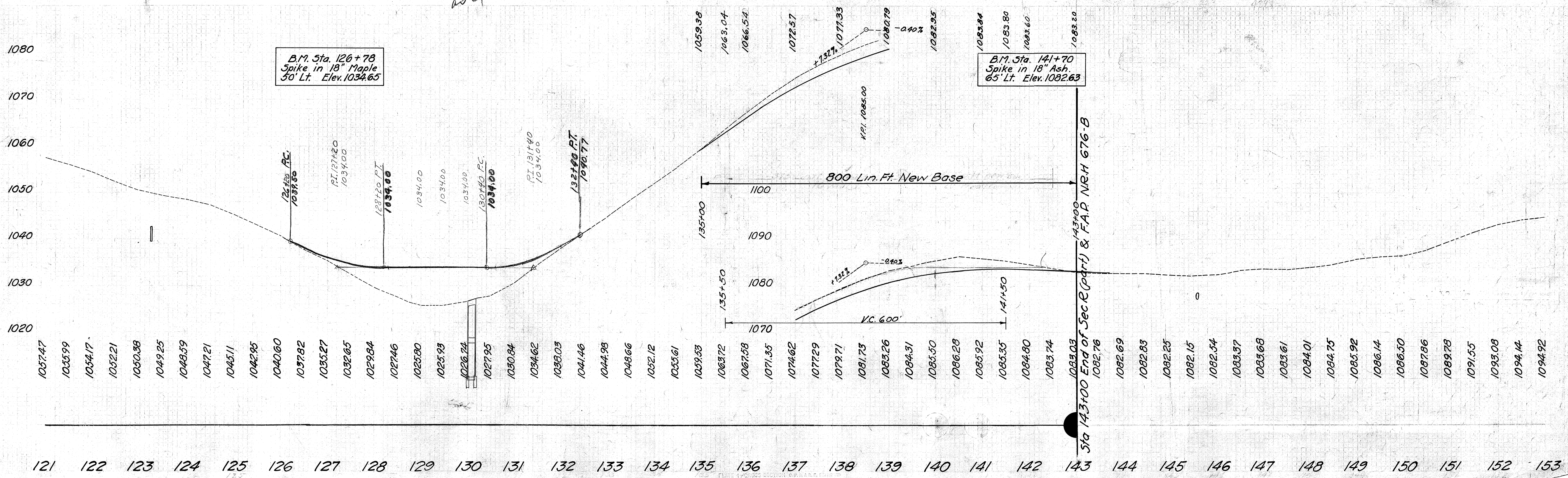
PRIVATE DPS. & ROAD APPROACHES

Item No.	Station	Rt. or Lt.	Place		Relay	
			Corr. P. Lin. Ft.	Agg. Cu. Yds.	Corr. P. Lin. Ft.	12" 15"
1-A	123+95	Lt.	20	2.0		
2-A	124+35	Rt.		2.0		
3-A	127+20	Lt.		5.0		
4-A	132+77	Rt.		2.0	20	
5-A	136+89	Rt.	10	3.0	20	
6-A	141+38	Lt.	20	3.0		
7-A	142+26	Rt.	20	2.0		
Totals			70	19.0	20	20

*3 1/2 : 1 side slopes
12x6 box on same skew
as existing culvert.*

STRUCTURES 20' SPAN AND UNDER

Item No.	Station	Type	Size	Excavation Cu. Yds.	Rock Exc. Cu. Yds.	Concrete 1-6" 1-6" Footing/Walls	Rein. steel lbs.	Rein. steel spools	Panel Holes sq. ft.	Pipe 12" Dia. Lin. Ft.	Rip rap sq. yds.	Refer. to sheet No.	Location on map	Remarks
1-C	123+24.6	Conc. box	3'3" x 5'0"				4200	13						No new work
2-C	130+02.7	Conc. slab	16' Span	14	180	323	28.6	39.9				35		Extend present structure.
Totals				14	180	323	28.6	39.9						29.5



B.M. Sta. 126+78
Spike in 18" Maple
50' Lt. Elev. 1034.65

B.M. Sta. 141+70
Spike in 18" Ash
65' Lt. Elev. 1082.63

Sta 143+00 End of Sec. R (part) & F.A.P. NRH 676-B

PC. 4+56.8 PT. 7+52.4
D=5° L

LEFT				RIGHT			
Deduct fr. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Add to L. Edge Gr.
.16	978.28	10'	3+56.8	978.44	10'	978.28	.00
	977.41		+75.0	977.57		977.54	.13
	976.18		4+00.0	976.34		976.49	.31
	974.96		+25.0	975.12		975.43	.47
	973.43		+50.0	973.59		974.10	.67
	971.87		+75.0	972.03		972.72	.85
	970.31		5+00.0	970.47		971.34	1.03
	969.90		+06.8	970.06		970.93	1.08
	968.75		+25.0	968.91		969.83	
	967.21		+50.0	967.37		968.29	
	965.81		+75.0	965.97		966.89	
	964.54		6+00.0	964.70		965.62	
	963.42		+25.0	963.58		964.50	
	962.57		+50.0	962.73		963.65	
	961.59		+75.0	961.75		962.67	
	960.89		7+00.0	961.05		961.97	1.08
	960.82		+02.4	960.98		961.90	
	960.32		+25.0	960.48		961.24	.92
	959.90		+50.0	960.06		960.64	.74
	959.61		+75.0	959.77		960.17	.56
	959.47		8+00.0	959.63		959.85	.38
	959.47		+25.0	959.63		959.67	.20
	959.59		+50.0	959.75		959.61	.02
.16	959.60	10'	+52.4	959.76	10'	959.60	.00

PC. 47+11.6 PT. 51+49.6
D=5° R

LEFT				RIGHT			
Add to R. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Deduct fr. Grade Elev.
.00	964.05	10'	46+11.6	964.21	10'	964.05	.16
.10	963.90		+25.0	963.96		963.80	
.27	963.61		+50.0	963.50		963.34	
.45	963.31		+75.0	963.02		962.86	
.64	963.01		47+00.0	962.33		962.37	
.82	962.73		+25.0	962.07		961.91	
1.00	962.50		+50.0	961.66		961.50	
1.08	962.41		+61.6	961.49		961.33	
	962.19		+75.0	961.27		961.11	
	961.82		48+00.0	960.90		960.74	
	961.48		+25.0	960.56		960.40	
	961.16		+50.0	960.24		960.08	
	960.85		+75.0	959.93		959.77	
	960.58		49+00.0	959.66		959.50	
	960.30		+25.0	959.38		959.22	
	960.04		+50.0	959.12		958.96	
	959.83		+75.0	958.91		958.75	
	959.62		50+00.0	958.70		958.54	
	959.40		+25.0	958.48		958.32	
	959.20		+50.0	958.28		958.12	
	958.98		+75.0	958.06		957.90	
	958.78		+99.6	957.86		957.70	
1.08	958.78		51+00.0	957.86		957.70	
.90	958.40		+25.0	957.66		957.50	
.72	957.98		+50.0	957.42		957.26	
.54	957.57		+75.0	957.19		957.03	
.36	957.18		52+00.0	956.98		956.82	
.18	956.68		+25.0	956.66		956.50	
.00	956.18	10'	+49.6	956.34	10'	956.18	.16

PC. 66+66.8 PT. 71+22.1
D=3° R

LEFT				RIGHT			
Add to R. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Deduct fr. Grade Elev.
.00	947.41	10'	65+66.8	947.57	10'	947.41	.16
.04	947.49		+75.0	947.61		947.45	
.14	947.70		66+00.0	947.72		947.56	
.28	947.95		+25.0	947.83		947.67	
.40	948.18		+50.0	947.94		947.78	
.52	948.41		+75.0	948.05		947.89	
.64	948.64		67+00.0	948.16		948.00	

PC. 79+31.1 PT. 80+81.1
D=1° L

LEFT				RIGHT			
Add to R. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Deduct fr. Grade Elev.
.72	948.79	10'	67+16.8	948.23	10'	948.07	.16
	948.83		+25.0	948.27		948.11	
	948.94		+50.0	948.38		948.22	
	949.05		+75.0	948.49		948.33	
	949.16		68+00.0	948.60		948.44	
	949.27		+25.0	948.71		948.55	
	949.38		+50.0	948.82		948.66	
	949.49		+75.0	948.93		948.77	
	949.60		69+00.0	949.04		948.88	
	949.71		+25.0	949.15		948.99	
	949.82		+50.0	949.26		949.10	
	949.93		+75.0	949.37		949.21	
	950.04		70+00.0	949.48		949.32	
	950.15		+25.0	949.59		949.43	
.72	950.26		+50.0	949.70		949.54	
.70	950.36		+72.1	949.80		949.64	
.59	950.35		+75.0	949.81		949.65	
.48	950.35		+25.0	950.03		949.87	
.34	950.32		+50.0	950.14		949.98	
.22	950.31		+75.0	950.25		950.09	
.10	950.30		72+00.0	950.36		950.20	
.00	950.30	10'	+22.1	950.46	10'	950.30	.16

PC. 96+94.4 PT. 101+48.8
D=5° L

LEFT				RIGHT			
Deduct fr. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Add to L. Edge Gr.
.16	953.70	10'	78+31.1	953.86	10'	953.70	.00
	954.25		+50.0	954.41		954.29	.04
	954.96		+75.0	955.12		955.06	.10
	955.65		79+00.0	955.81		955.81	.16
	956.35		+25.0	956.51		956.57	.22
	957.05		+50.0	957.21		957.33	.28
	957.76		+75.0	957.92		958.10	.34
	957.92		+81.1	958.08		958.28	.36
	958.47		80+00.0	958.63		958.83	
	959.13		+25.0	959.29		959.49	
	959.28		+31.1	959.44		959.64	.36
	959.78		+50.0	959.94		960.09	.31
	960.45		+75.0	960.61		960.70	.25
	961.16		81+00.0	961.32		961.35	.19
	961.88		+25.0	962.04		962.01	.13
	962.86		+50.0	963.02		962.93	.07
	964.03		+75.0	964.19		964.04	.01
.16	964.32	10'	+81.1	964.48	10'	964.32	.00

PC. 96+94.4 PT. 101+48.8
D=5° L

LEFT				RIGHT			
Deduct fr. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Add to L. Edge Gr.
.16	1049.44	10'	95+94.4	1049.60	10'	1049.44	.00
	1049.68		96+00.0	1049.84		1049.72	.04
	1051.25		+25.0	1051.41		1051.47	.22
	1052.88		+50.0	1053.04		1053.28	.40
	1054.12		+75.0	1054.28		1054.70	.58
	1055.16		97+00.0	1055.32		1055.52	.76
	1056.43		+25.0	1056.59		1057.37	.94
	1057.35		+44.4	1057.51		1058.43	1.08
	1057.58		+50.0	1057.74		1058.66	
	1058.73		+75.0	1058.89		1059.81	
	1059.88		98+00.0	1060.04		1060.96	
	1061.06		+25.0	1061.22		1062.14	
	1062.13		+50.0	1062.29		1063.21	
	1063.01		+75.0	1063.17		1064.09	
	1063.80		99+00.0	1063.96		1064.88	
	1064.52		+25.0	1064.68		1065.60	
	1065.16		+50.0	1065.32		1066.24	
	1065.76		+75.0	1065.92		1066.84	
	1066.28		100+00.0	1066.44		1067.36	
	1066.77		+25.0	1066.93		1067.85	

PC. 104+96.7 PT. 107+63.3
D=5° L

LEFT				RIGHT			
Deduct fr. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Add to L. Edge Gr.
.16	1067.21	10'	100+50.0	1067.37	10'	1068.29	1.08
	1067.58		+75.0	1067.74		1068.66	1.08
	1067.83		+98.8	1067.99		1068.91	1.08
	1067.84		101+00.0	1068.00		1068.90	1.06
	1068.04		+25.0	1068.20		1069.00	.96
	1068.26		+50.0	1068.42		1069.07	.71
	1068.52		+75.0	1068.68		1069.05	.53
	1068.78		102+00.0	1068.94		1069.13	.35
	1068.99		+25.0	1069.15		1069.16	.17
.16	1068.89	10'	+48.8	1069.05	10'	1068.89	.00

PC. 104+96.7 PT. 107+63.3
D=5° L

LEFT				RIGHT			
Deduct fr. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Add to L. Edge Gr.
.16	1068.86	10'	103+96.7	1069.02	10'	1068.86	.00
	1068.86		104+00.0	1069.02		1068.88	.02
	1068.87		+25.0	1069.03		1069.07	.20
	1068.89		+50.0	1069.05		1069.27	.38
	1069.10		+75.0	1069.26		1069.66	.56
	1069.48		105+00.0	1069.64		1070.22	.74
	1069.87		+25.0	1070.03		1070.79	.92
	1070.20		+46.7	1070.36		1071.28	1.08
	1070.25		+50.0	1070.41		1071.33	
	1070.65		+75.0	1070.81		1071.73	
	1070.98		106+00.0	1071.14		1072.06	
	1071.26		+25.0	1071.42		1072.34	
	1071.14		+50.0	1071.30		1072.22	
	1070.51		+75.0	1070.67		1071.59	
	1069.73		107+00.0	1069.89		1070.81	
	1069.26		+13.3	1069.42		1070.34	1.08
	1068.84		+25.0	1069.00		1069.84	1.00
	1067.92		+50.0	1068.08		1068.73	.81
	1067.06		+75.0	1067.22		1067.69	.63
	1066.22		108+00.0	1066.38		1066.67	.45
	1065.43		+25.0	1066.59		1065.71	.28
	1064.72		+50.0	1066.88		1064.82	.10
.16	1064.44	10'	+63.3	1066.60	10'	1064.44	.00

PC. 112+21.9 PT. 120+40.9
D=5° R

LEFT				RIGHT			
Add to R. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Deduct fr.

PC. 134+83.8 RT. 139+96.0 D=5°L

LEFT			RIGHT				
Deduct fr. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Add to L. Edge Gr.
.16	1051.04	10'	133+83.8	1051.20	10'	1051.04	.00
	1052.08		134+00.0	1052.24		1052.20	.12
	1053.73		+25.0	1053.89		1054.03	.30
	1055.56		+50.0	1055.72		1056.04	.48
	1057.39		+75.0	1057.55		1058.05	.66
	1059.22		135+00.0	1059.38		1060.06	.84
	1061.05		+25.0	1061.21		1062.07	1.02
	1061.70		+33.8	1061.86		1062.78	1.08
	1062.88		+50.0	1063.04		1063.96	
	1064.67		+75.0	1064.83		1065.75	
	1066.38		136+00.0	1066.54		1067.46	
	1068.01		+25.0	1068.17		1069.09	
	1069.56		+50.0	1069.72		1070.64	
	1071.03		+75.0	1071.19		1072.11	
	1072.41		137+00.0	1072.57		1073.49	
	1073.72		+25.0	1073.88		1074.80	
	1074.95		+50.0	1075.11		1076.03	
	1076.10		+75.0	1076.26		1077.18	
	1077.17		138+00.0	1077.33		1078.25	
	1078.16		+25.0	1078.32		1079.24	
	1079.06		+50.0	1079.22		1080.14	
	1079.89		+75.0	1080.05		1080.97	
	1080.63		139+00.0	1080.79		1081.71	
	1081.29		+25.0	1081.45		1082.37	
	1081.74		+46.0	1081.90		1082.82	1.08
	1081.87		+50.0	1082.03		1082.92	1.05
	1082.37		+75.0	1082.53		1083.24	.87
	1082.79		140+00.0	1082.95		1083.49	.70
	1083.14		+25.0	1083.30		1083.65	.51
	1083.40		+50.0	1083.56		1083.75	.35
	1083.58		+75.0	1083.74		1083.73	.15
.16	1083.67	10'	+96.0	1083.83	10'	1083.67	.00

PC. 151+14.5 RT. 152+52.5 D=1°L

LEFT			RIGHT				
Deduct fr. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Add to L. Edge Gr.
.16	1086.86	10'	150+14.5	1087.02	10'	1086.86	.00
	1087.13		+25.0	1087.29		1087.15	.02
	1087.88		+50.0	1088.04		1087.96	.08
	1088.75		+75.0	1088.91		1088.89	.14
	1089.76		151+00.0	1089.92		1089.96	.20
	1090.68		+25.0	1090.84		1090.94	.26
	1091.54		+50.0	1091.70		1091.85	.31
	1092.00		+64.5	1092.16		1092.36	.36
	1092.34		+75.0	1092.50		1092.70	
	1093.09		152+00.0	1093.25		1093.45	
	1093.17		+02.5	1093.33		1093.53	.36
	1093.73		+25.0	1093.89		1094.03	.30
	1094.16		+50.0	1094.32		1094.40	.24
	1094.50		+75.0	1094.66		1094.68	.18
	1094.84		153+00.0	1095.00		1094.96	.12
	1095.16		+25.0	1095.32		1095.22	.06
	1095.49		+50.0	1095.65		1095.50	.01
.16	1095.54	10'	+32.5	1095.70	10'	1095.54	.00

PC. 165+22.3 RT. 166+82.3 D=1°R

LEFT			RIGHT				
Add to R. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Deduct fr. Edge Gr.
.00	1136.53	10'	164+22.3	1136.69	10'	1136.53	.16
.01	1136.70		+25.0	1136.85		1136.69	
.06	1138.30		+50.0	1138.40		1138.24	
.12	1139.91		+75.0	1139.95		1139.79	
.18	1141.52		165+00.0	1141.50		1141.34	
.24	1144.08		+25.0	1143.00		1143.84	
.30	1144.54		+50.0	1144.40		1144.24	
.36	1145.76		+72.3	1145.56		1145.40	
	1145.91		+75.0	1145.71		1145.55	
	1147.12		166+00.0	1146.92		1146.76	
	1148.22		+25.0	1148.02		1147.86	
.36	1148.53		+32.3	1148.33		1148.17	
.32	1149.20		+50.0	1149.04		1148.88	
.25	1150.04		+75.0	1149.95		1149.79	
.20	1150.80		167+00.0	1150.76		1150.60	
.14	1151.47		+25.0	1151.49		1151.33	
.07	1152.02		+50.0	1152.11		1151.95	
.02	1152.49		+75.0	1152.63		1152.47	
.00	1152.58	10'	+82.3	1152.74	10'	1152.58	.16

PC. 198+10.3 RT. 200+85.7 D=4°R

LEFT			RIGHT				
Add to R. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Deduct fr. Edge Gr.
.00	1160.80	10'	197+10.3	1160.96	10'	1160.80	.16
.09	1161.29		+25.0	1161.36		1161.20	
.24	1162.16		+50.0	1162.08		1161.92	
.39	1163.11		+75.0	1162.88		1162.72	
.54	1164.06		198+00.0	1163.68		1163.52	

PC. 224+74.1 RT. 231+02.8 D=5°L

LEFT			RIGHT				
Add to R. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Deduct fr. Edge Gr.
.70	1164.93	10'	198+25.0	1164.39	10'	1164.23	.16
.84	1165.69		+50.0	1165.01		1164.85	
.90	1165.98		+60.3	1165.24		1165.08	
	1166.28		+75.0	1165.54		1165.38	
	1166.82		199+00.0	1166.08		1165.92	
	1167.35		+25.0	1166.61		1166.45	
	1167.90		+50.0	1167.16		1167.00	
	1168.43		+75.0	1167.69		1167.53	
	1168.85		200+00.0	1168.11		1167.95	
	1168.98		+15.7	1168.24		1168.08	
.84	1168.96		+25.0	1168.28		1168.12	
.70	1168.90		+50.0	1168.36		1168.20	
.54	1168.66		+75.0	1168.28		1168.12	
.39	1168.21		201+00.0	1167.98		1167.82	
.24	1167.71		+25.0	1167.63		1167.47	
.09	1167.23		+50.0	1167.30		1167.14	
.00	1166.92	10'	+65.7	1167.08	10'	1166.92	.16

PC. 224+74.1 RT. 231+02.8 D=5°L

LEFT			RIGHT				
Deduct fr. Edge Gr.	Edge of Pavement	WIDTH	STATION	Grade Elevation	WIDTH	Edge of Pavement	Add to L. Edge Gr.
.16	1164.16	10'	223+74.1	1164.32	10'	1164.16	.00
	1164.15		+75.0	1164.31		1164.16	.01
	1163.89		224+00.0	1164.05		1164.07	.18
	1163.64		+25.0	1163.80		1164.00	.36
	1163.39		+50.0	1163.55		1163.93	.54
	1163.14		+75.0	1163.30		1163.86	.72
	1162.88		225+00.0	1163.04		1163.78	.90
	1162.64		+24.1	1162.80		1163.72	1.08
	1162.63		+25.0	1162.79		1163.71	
	1162.38		+50.0	1162.54		1163.46	
	1162.13		+75.0	1162.29		1163.21	
	1161.87		226+00.0	1162.03		1162.95	
	1161.62		+25.0	1161.78		1162.70	
	1161.37		+50.0	1161.53		1162.45	
	1161.12		+75.0	1161.28		1162.20	
	1160.86		227+00.0	1161.02		1161.94	
	1160.61		+25.0	1160.77		1161.69	
	1160.36		+50.0	1160.52		1161.44	
	1160.11		+75.0	1160.27		1161.19	
	1159.85		228+00.0	1160.01		1160.93	
	1159.60		+25.0	1159.76		1160.68	
	1159.35		+50.0	1159.51		1160.43	
	1159.10		+75.0	1159.26		1160.18	
	1158.84		229+00.0	1159.00		1159.92	
	1158.59		+25.0	1158.75		1159.67	
	1158.34		+50.0	1158.50		1159.42	
	1158.09		+75.0	1158.25		1159.17	
	1157.83		230+00.0	1157.99		1158.91	
	1157.58		+25.0	1157.74		1158.66	
	1157.33		+50.0	1157.49		1158.41	
	1157.08		+75.0	1157.24		1158.16	1.08
	1156.82		231+00.0	1156.98		1157.90	.92
	1156.56		+25.0	1156.72		1157.64	.76
	1156.31		+50.0	1156.47		1157.38	.60
	1156.05		+75.0	1156.21		1157.12	.44
	1155.79		232+00.0	1155.95		1156.86	.28
	1155.53		+25.0	1155.69		1156.60	.12
	1155.27		+50.0	1155.43		1156.34	.00
	1155.01		+75.0	1155.17		1156.08	
	1154.75		233+00.0	1154.91		1155.82	
	1154.49		+25.0	1154.65		1155.56	
	1154.23		+50.0	1154.39		1155.30	
	1153.97		+75.0	1154.13		1155.04	
	1153.71		234+00.0	1153.87		1154.78	
	1153.45		+25.0	1153.61		1154.52	
	1153.19		+50.0	1153.35		1154.26	
	1152.93		+75.0	1153.09		1154.00	
	1152.67		235+00.0	1152.83		1153.74	
	1152.41		+25.0	1152.57		1153.48	
	1152.15		+50.0	1152.31		1153.22	
	1151.89		+75.0	1152.05		1152.96	
	1151.63		236+00.0	1151.79		1152.70	
	1151.43		+25.0	1151.59		1152.50	
	1151.23		+50.0	1151.39		1152.30	
	1151.03		+75.0	1151.19		1152.10	
	1150.83		237+00.0	1151.03		1151.94	
	1150.63		+25.0	1150.83		1151.74	
	1150.43		+50.0	1150.63		1151.54	
	1150.23		+75.0	1150.43		1151.34	
	1150.03		238+00.0	1150.27		1151.18	
	1149.83		+25.0	1150.11		1151.02	
	1149.63		+50.0	1149.95		1150.86	
	1149.43		+75.0	1149.79		1150.70	
	1149.23		239+00.0	1149.63		1150.54	
	1149.03		+25.0	1149.47		1150.38	
	1148.83		+50.0	1149.31		1150.22	
	1148.63		+75.0	1149.15		1150.06	
	1148.43		240+00.0	1149.03		1149.90	
	1148.23		+25.0	1148.87		1149.74	
	1148.03						

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

End Area
Cut Fill Cut Fill

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

U. S. PUBLIC WORKS
PROJECT NO.

FED.AID DIST.NO.	STATE	FED.AID PROJECT	FISCAL YEAR
10	OHIO	676-B	1933

10
34

HIGHLAND COUNTY
S. H. 259 SEC. R (PART)

Earthwork for driveway
approach at sta. 8+70 Rt.
To be done as directed
by Engineer.

25

959.63
8+00
958.49

0 47

4 150

961.05
7+00
961.17

2 34

964.70
6+00
964.76

7 93

2 16

Earthwork for driveway
approach at sta. 5+19 Lt.
To be done as directed
by the Engineer.

10

7 65

970.47
5+00
970.65

2 19

7 82

976.34
4+00
976.22

2 25

11 82

981.06
3+00
980.95

4 19

13 44

984.76
2+00
984.56

3 5

2 2

9 43

Earthwork for driveway
approach at sta. 1+97
To be done as directed
by the Engineer.

2 18

987.64
1+00
987.52

9 41

989.49
0+00
989.49

3 4

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

961.50
12+00
960.54

0 72

0 204

961.20
11+20.32
960.57

0 69

Bridge earthwork limit

BRIDGE OVER MOBERLY BRANCH

960.92
10+79.68
960.05

0 138

Bridge earthwork limit

960.30
10+00
958.07

0 94

960+00
9+00
957.36

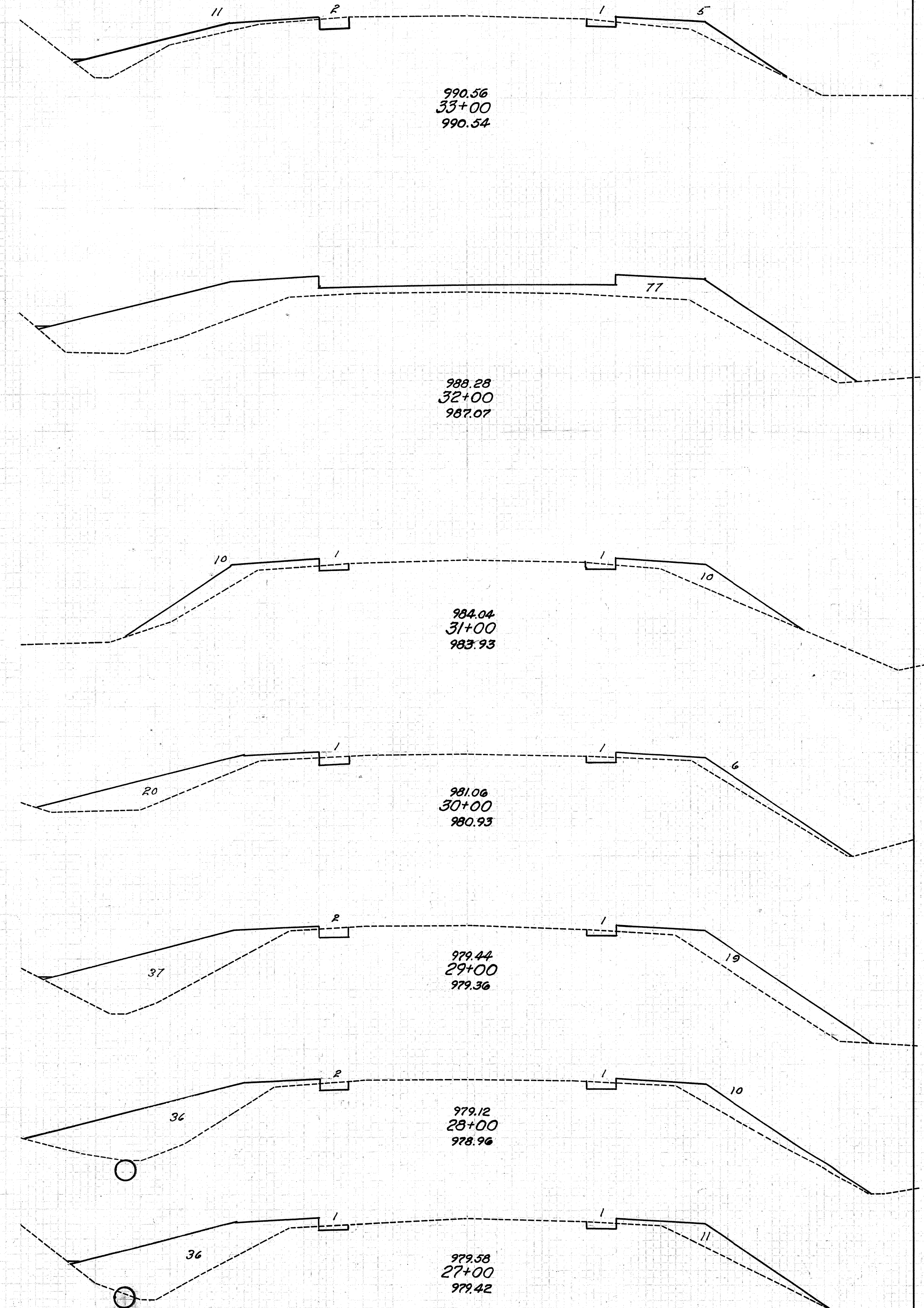
0 104

0 280

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

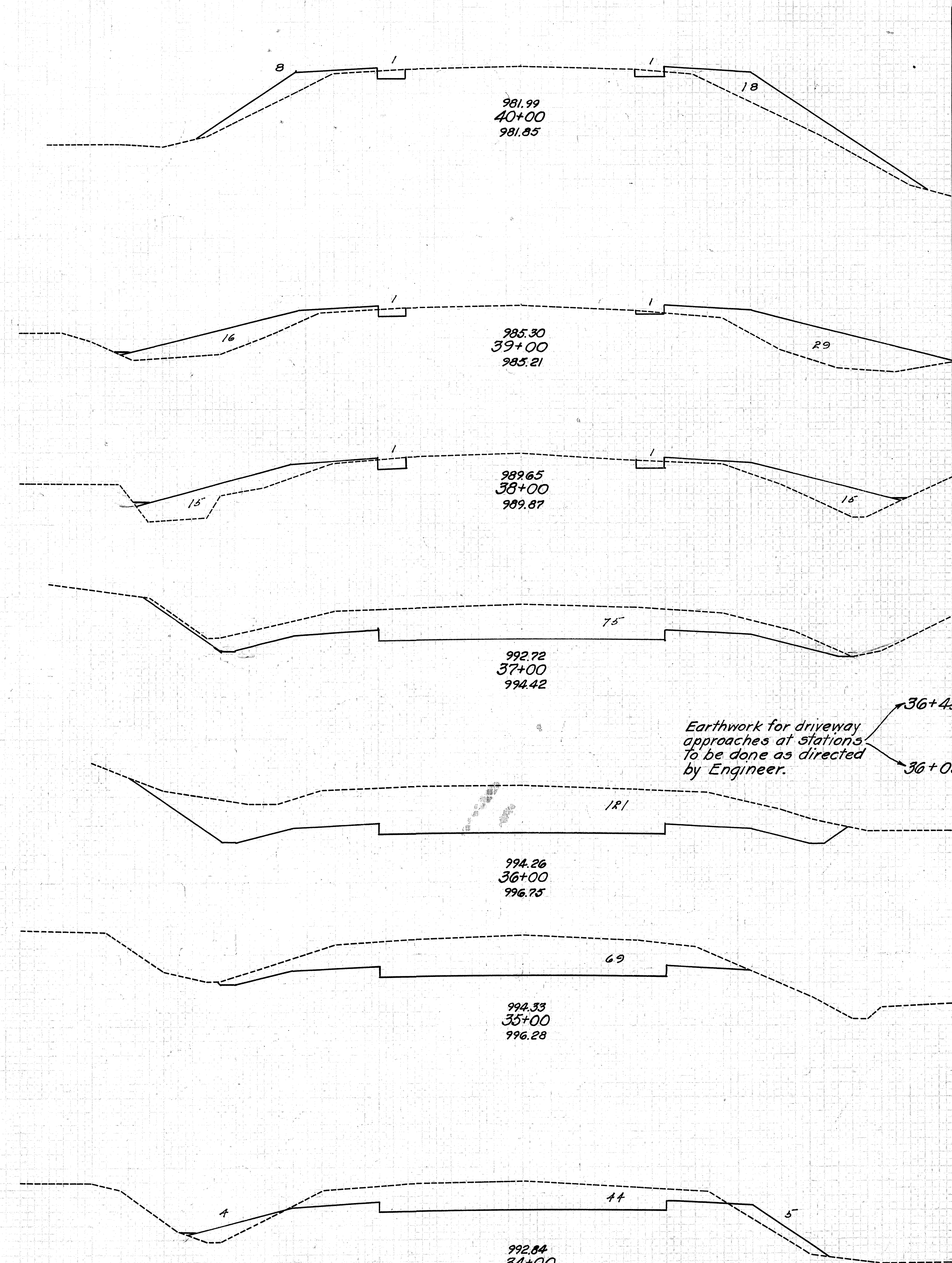
End Area
Cut Fill Cut Fill

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



End Area	Cu. Yds.	
	Cut	Fill
3	16	
6	172	
0	77	
4	180	
2	20	
7	85	
2	26	
9	152	
3	56	
11	189	
3	46	
9	172	
2	47	
7	189	

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



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HIGHLAND COUNTY
S. H. 259 SEC. R (PART)

Earthwork for driveway approaches at stations 36+45 Rt. and 36+05 Lt. to be done as directed by Engineer.

End Area	Cu. Yds.	
	Cut	Fill
2	26	
7	132	
2	45	
7	139	
2	30	
143	56	
75	0	
2	0	
361	0	
2	0	
121	0	
352	0	
69	0	
209	17	
44	9	
87	46	

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

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

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

End Area
Cut Fill

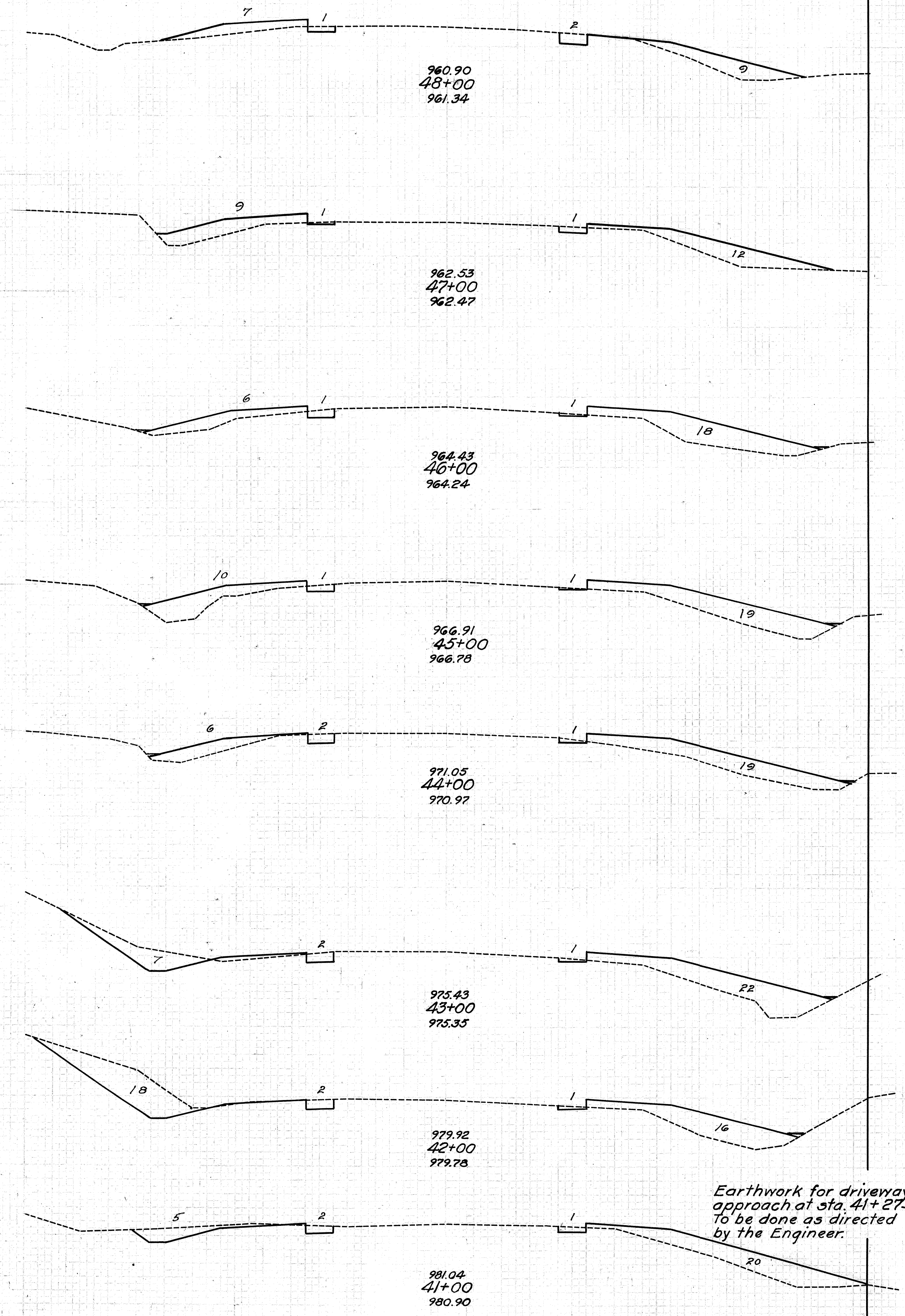
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FED.AID DIST.NO. 10 STATE OHIO FED.AID PROJECT YEAR 6762B 1933

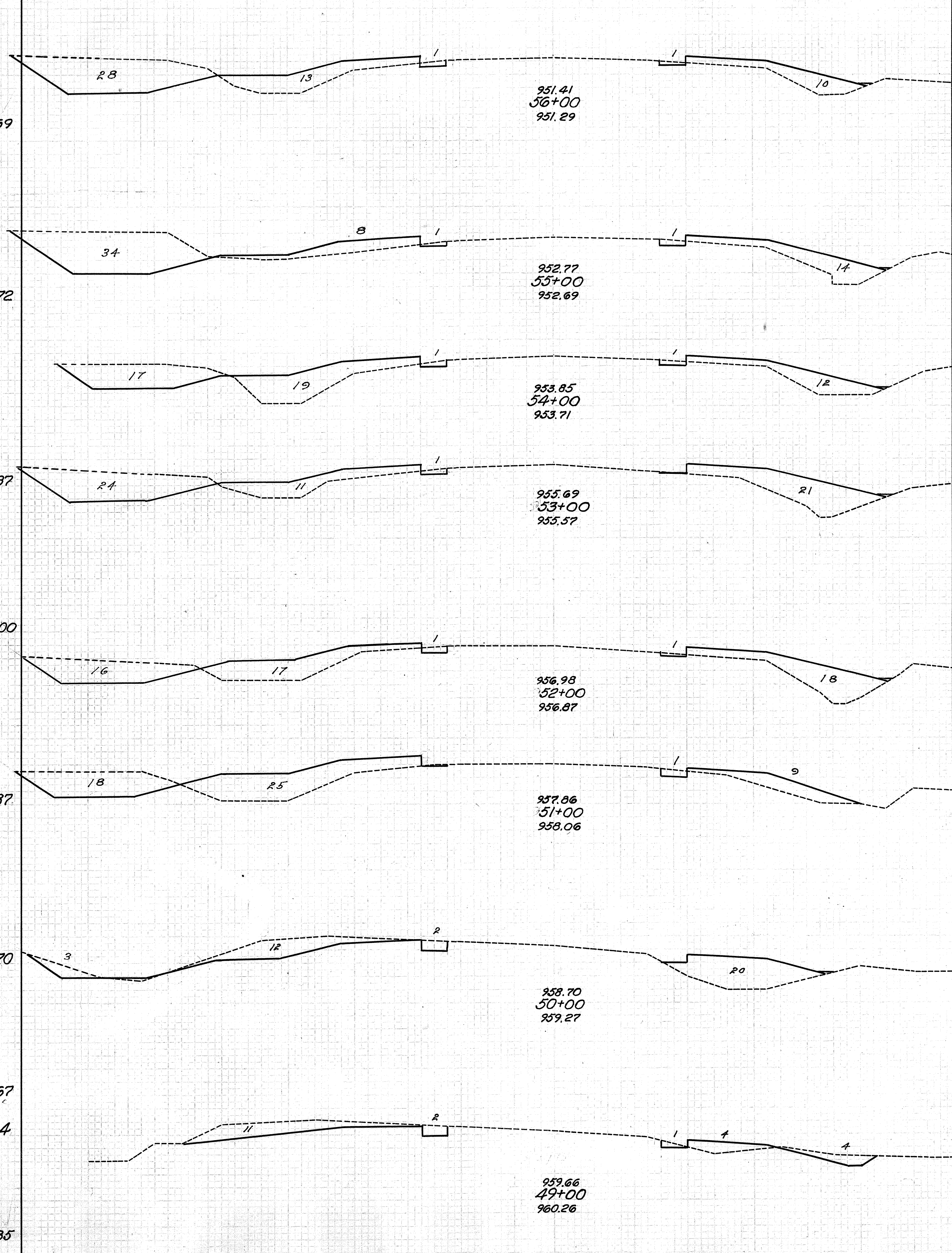
13
34

U. S. PUBLIC WORKS PROJECT NO.

HIGHLAND COUNTY S. H. 259 COUNTY SEC. R (PART)



End Area	Cu. Yds.
Cut	Fill
3	16
9	69
2	21
7	72
2	18
7	87
2	29
9	100
3	25
24	87
10	22
57	70
21	16
54	67
4	4
8	20
19	85



End Area	Cu. Yds.
Cut	Fill
30	23
	122 83
36	22
	102 98
19	31
	82 117
25	32
	80 124
18	35
	69 128
19	34
	67 100
17	20
	65 44
18	4
	39 37

Earthwork for driveway approach at sta. 41+27 to be done as directed by the Engineer.

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

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

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

End Area Cu.Yds.

Cut Fill Cut Fill

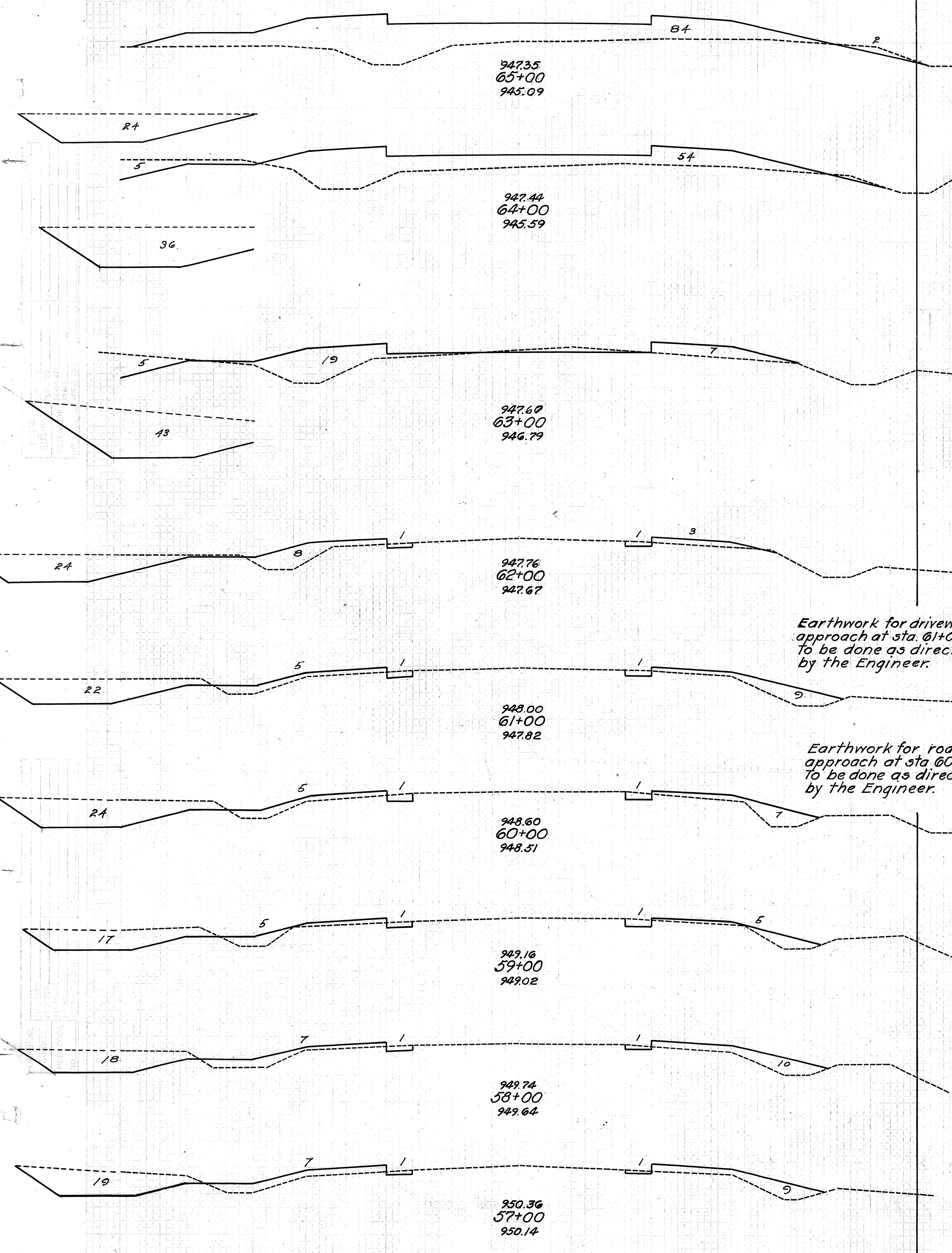
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U. S. PUBLIC WORKS PROJECT NO.

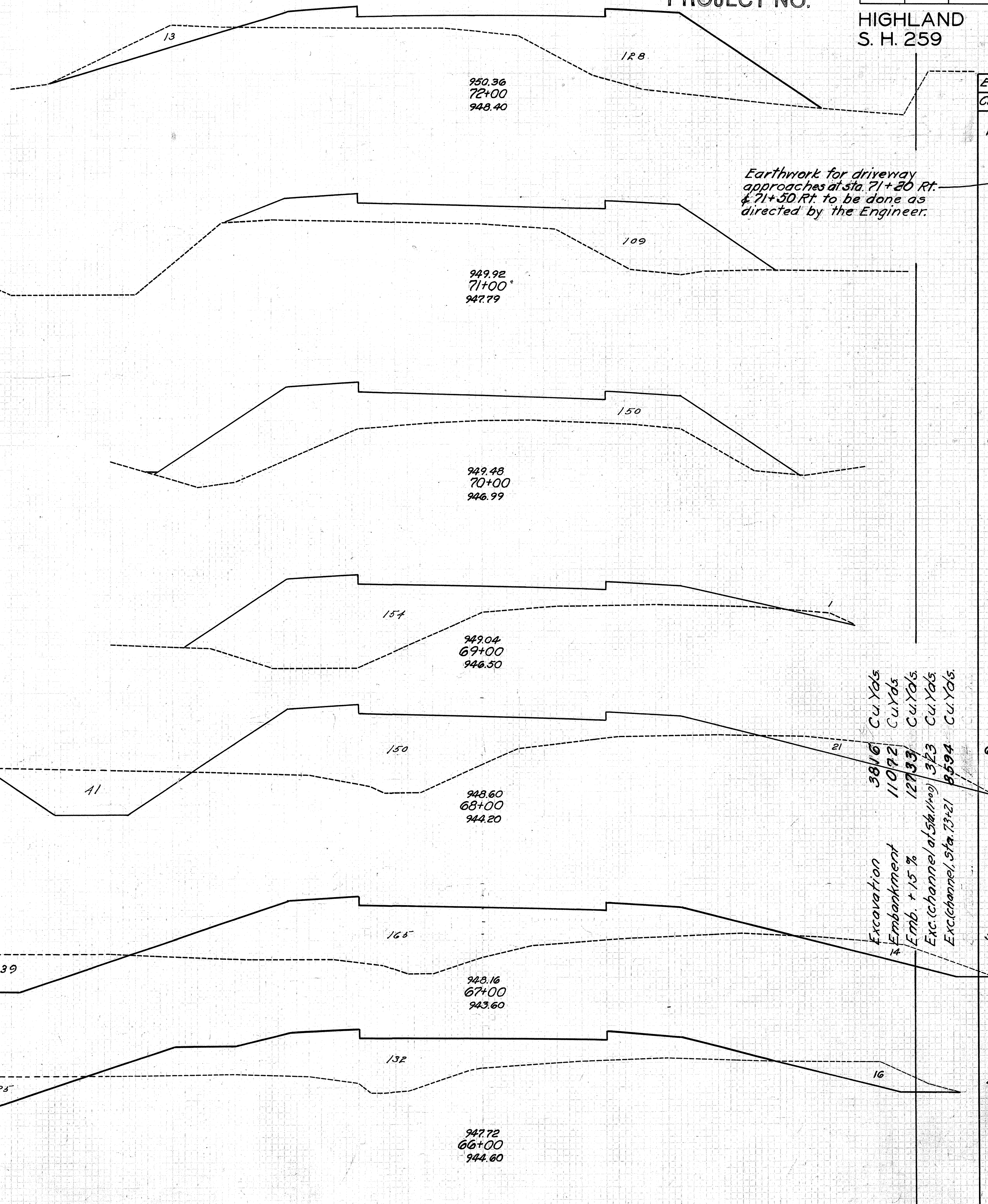
FED.AID DIST. NO.	STATE	FED.AID PROJECT YEAR	FISCAL YEAR
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HIGHLAND COUNTY S. H. 259 SEC. R (PART)



Station	End Area Cut	End Area Fill	Cu.Yds. Cut	Cu.Yds. Fill
65+00	26	84	124	256
64+00	41	54	165	148
63+00	48	26	137	69
62+00	26	11	93	46
61+00	24	14	24	14
60+00	26	12	83	41
59+00	19	10	72	50
58+00	20	17	76	61
57+00	21	16	94	72



Station	End Area Cut	End Area Fill	Cu.Yds. Cut	Cu.Yds. Fill
71+00	13	128	0	109
70+00	0	150	2	563
69+00	1	154	117	563
68+00	62	150	213	583
67+00	53	165	174	550
66+00	41	132	124	400

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

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

Excavation 3816 Cu.Yds.
 Embankment 11092 Cu.Yds.
 Emb. + 15% 12733 Cu.Yds.
 Exc. (channel at Sta. 73+21) 323 Cu.Yds.
 Exc. channel Sta. 73+21 5594 Cu.Yds.

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

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

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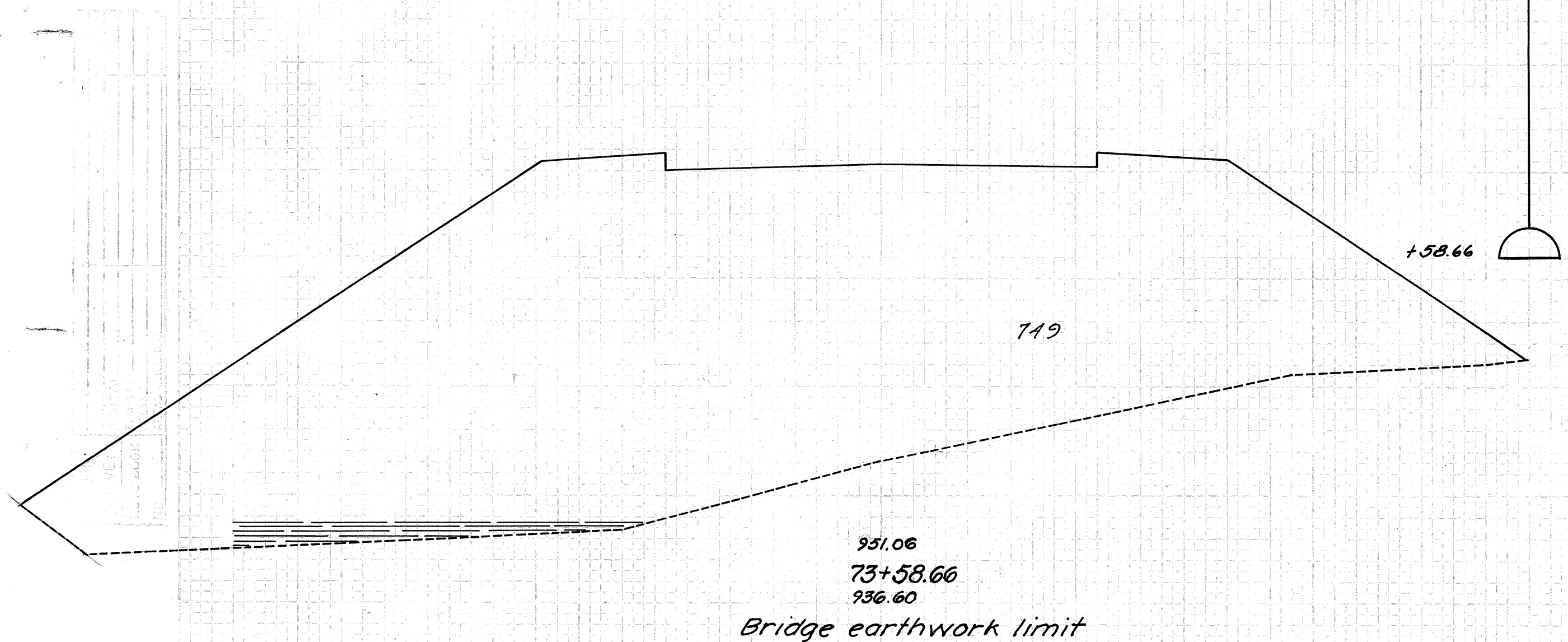
15
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U. S. PUBLIC WORKS PROJECT NO.

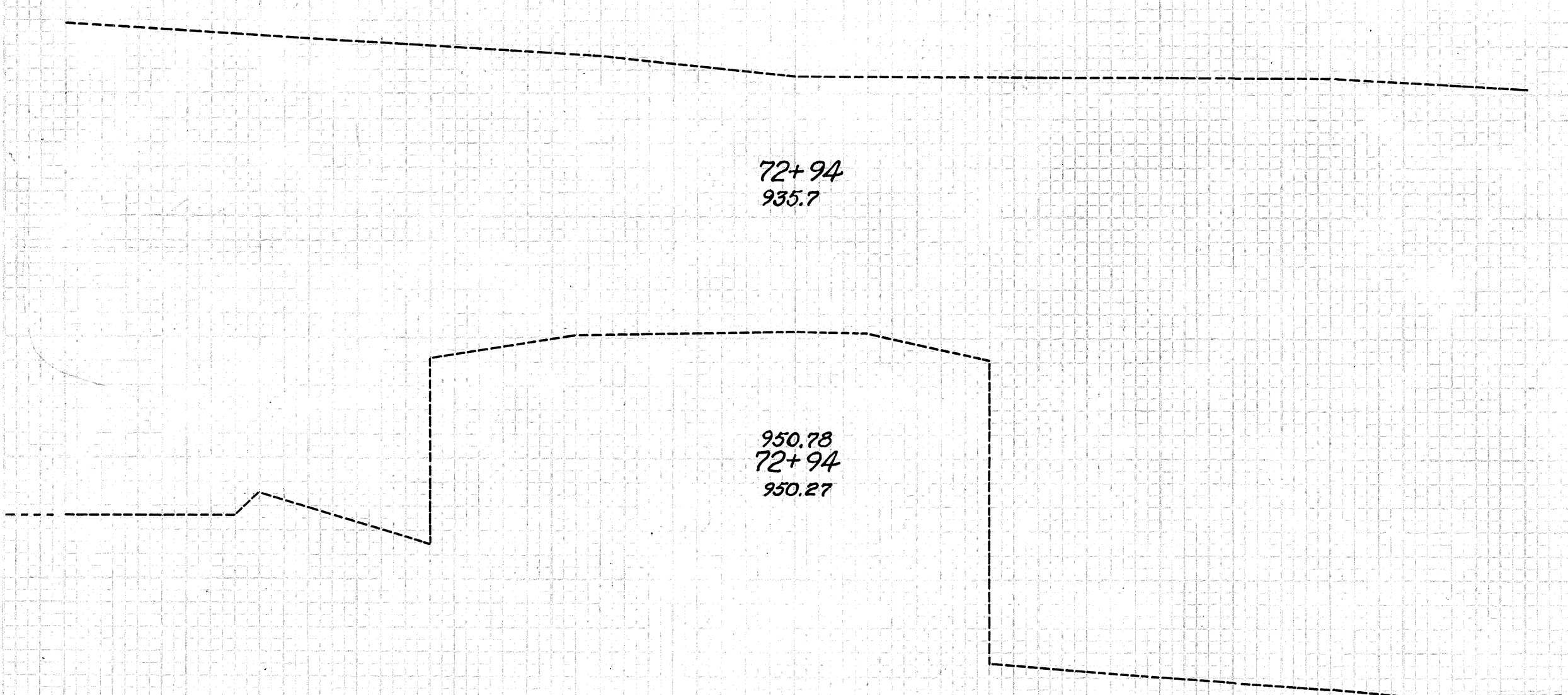
HIGHLAND COUNTY
S. H. 259 SEC. R (PART)

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
0	749		
2	60	23	290

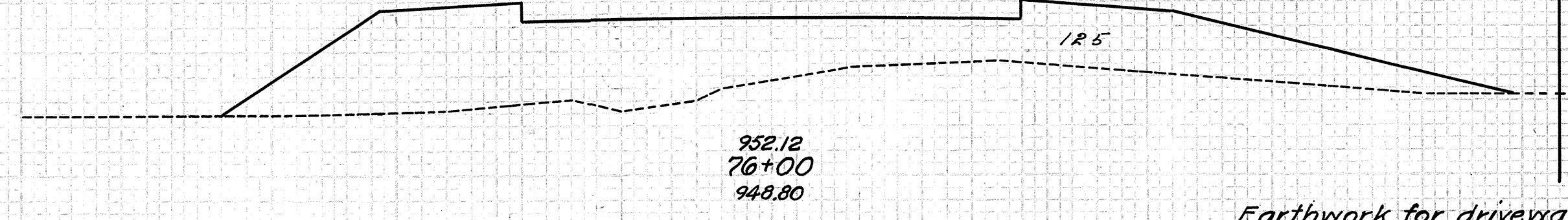
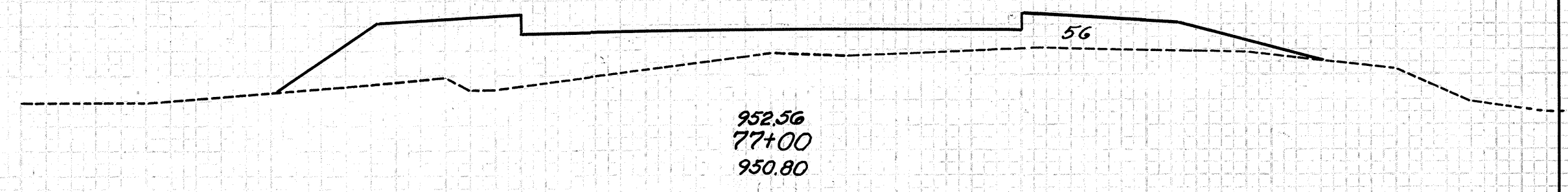
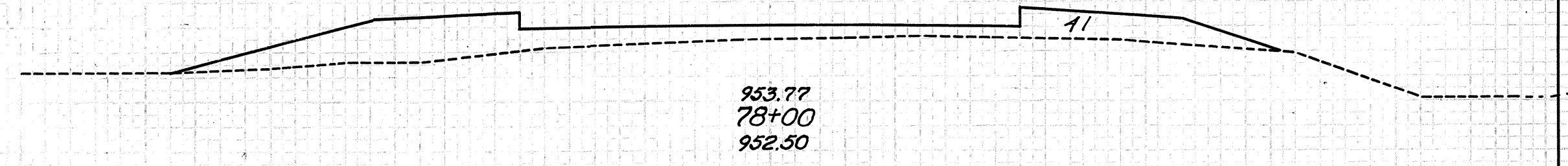
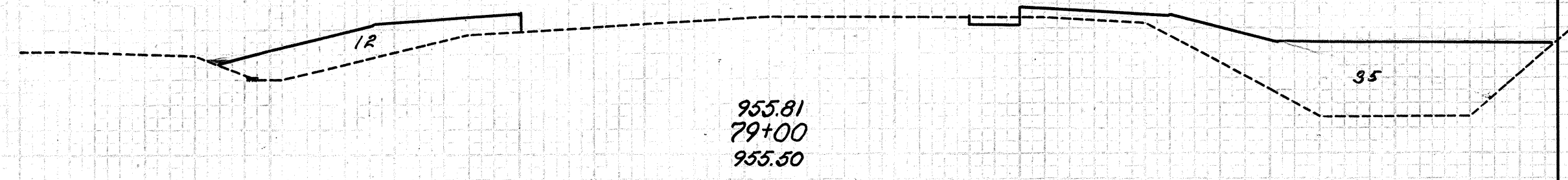
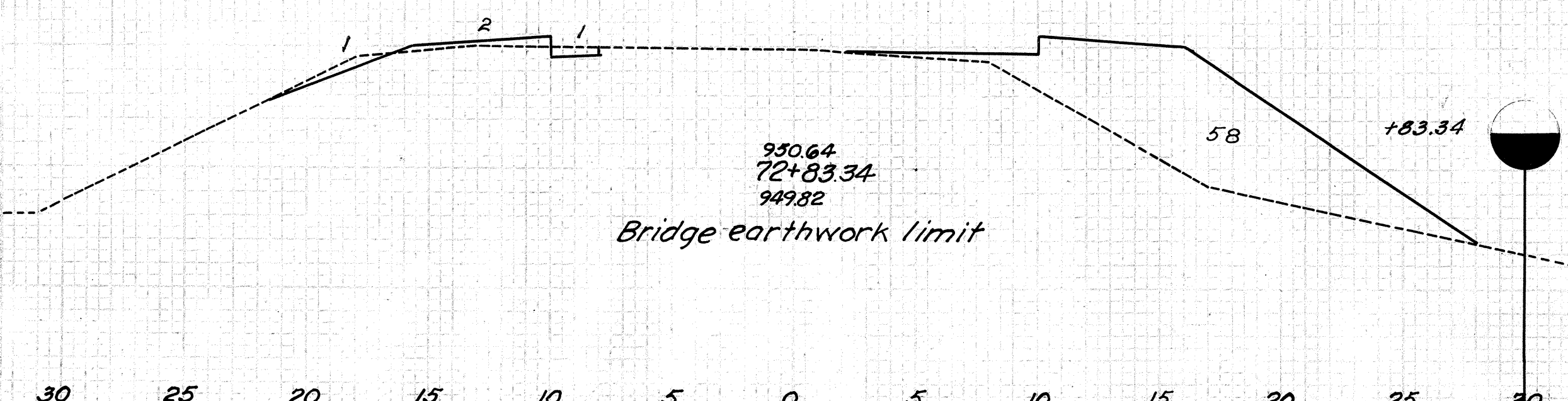
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
1	47		
		2	163
0	41		
		2	180
1	56		
		2	335
0	125		
		6	
		0	609
0	204		
		0	1256
0	474		
		0	938



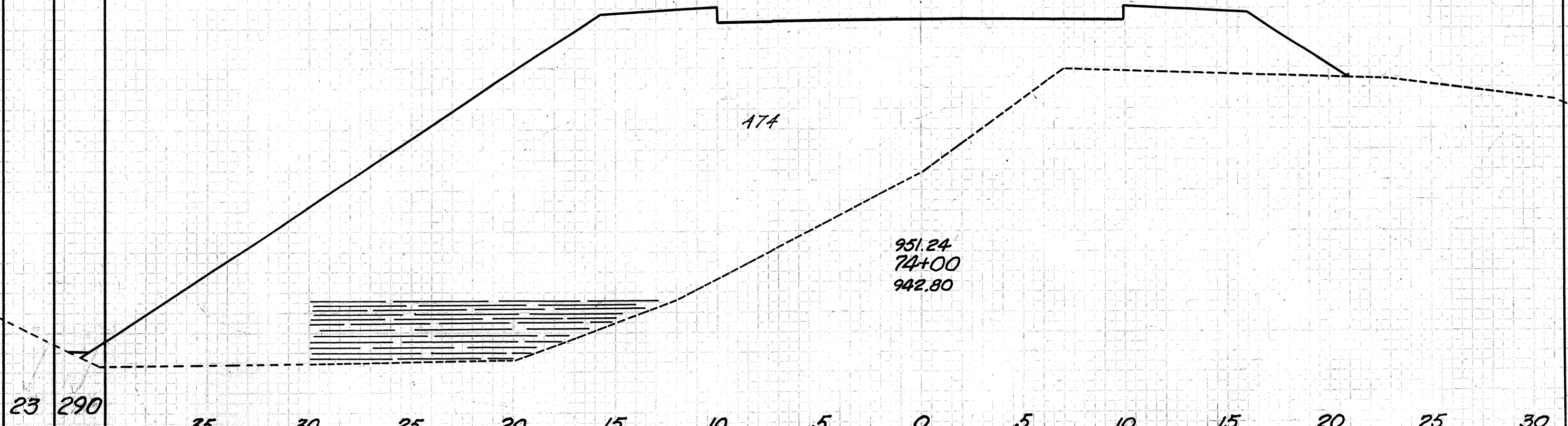
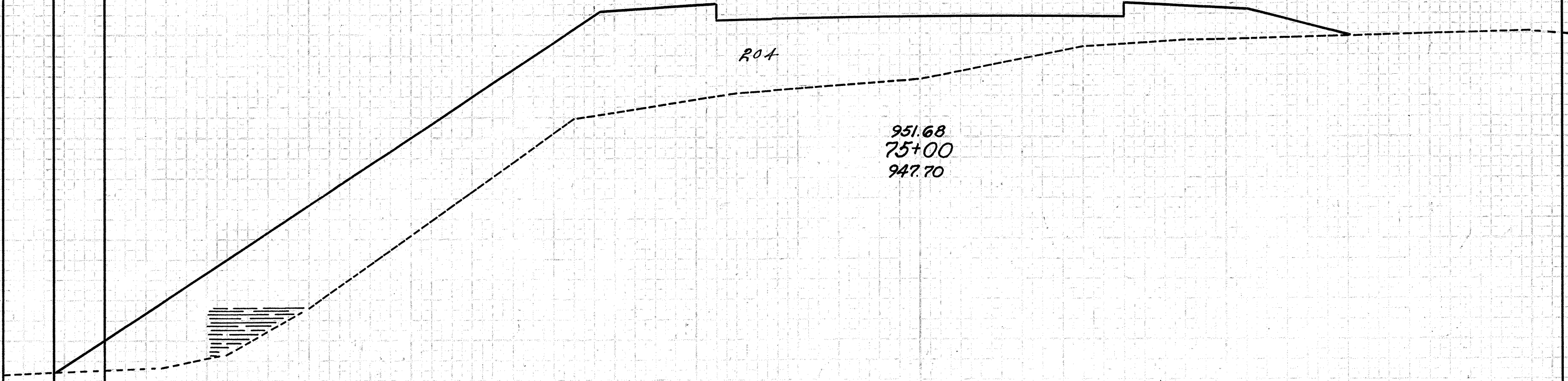
BRIDGE OVER CLEAR CREEK



BRIDGE earthwork limit



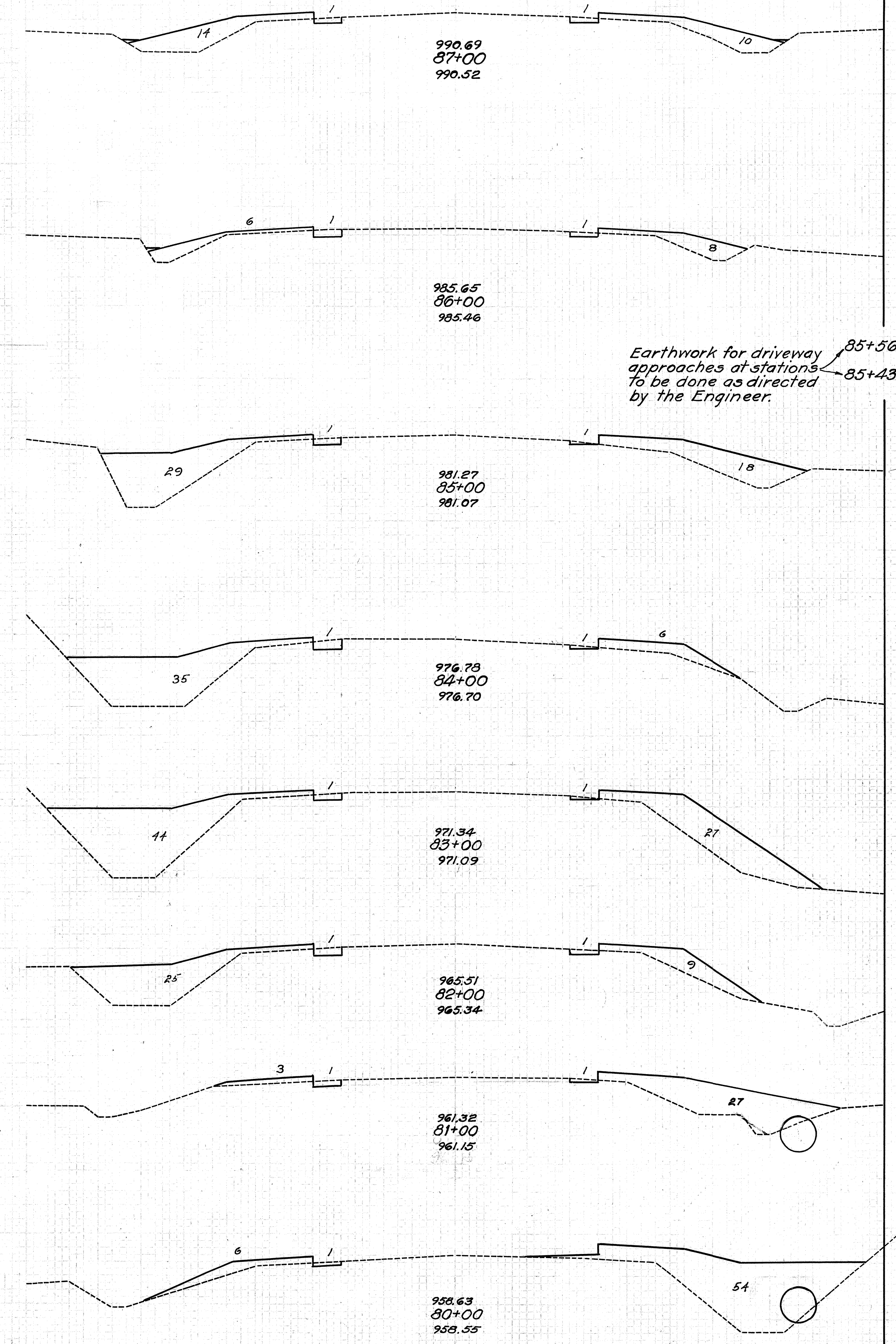
Earthwork for driveway approach at sta. 75+40 Rt. To be done as directed by the Engineer



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

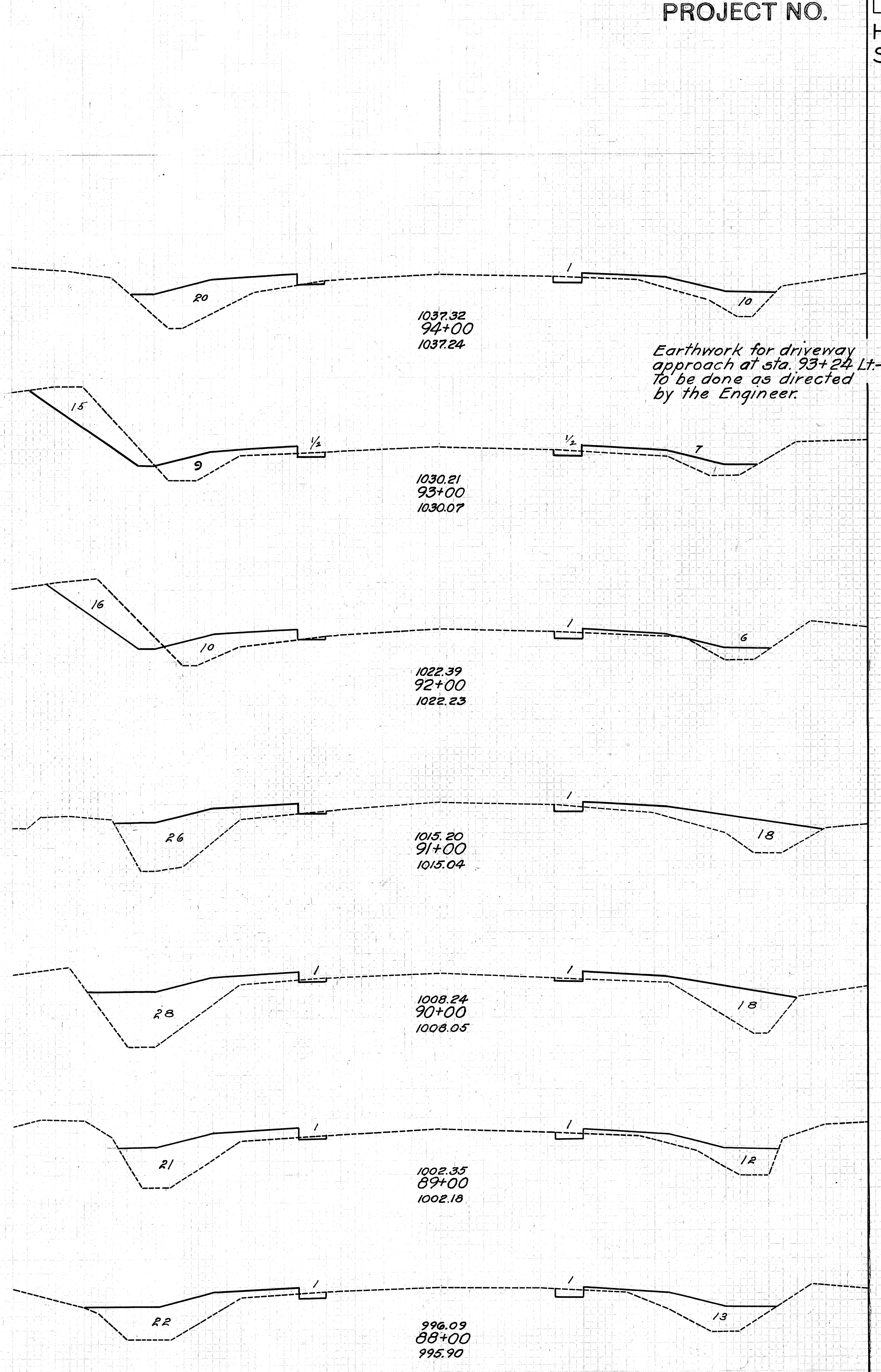
30 25 20 15 10 5 0 5 10 15 20 25 30



Earthwork for driveway approaches at stations 85+56 Rt. 85+43 Lt. to be done as directed by the Engineer.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
2	24		
		7	70
2	14		
		7	113
		2	
		2	
2	47		
		7	163
2	41		
		7	207
2	71		
		7	194
2	34		
		7	119
2	30		
		6	147
1	60		
		4	198

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



Earthwork for driveway approach at sta. 93+24 Lt. to be done as directed by the Engineer.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
		1	30
		2	
		32	85
16	16		
		61	59
17	16		
		33	111
1	44		
		6	167
2	46		
		7	146
2	33		
		7	126
2	35		
		7	109

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HIGHLAND COUNTY S.H. 259 SEC. R (PART)

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

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

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

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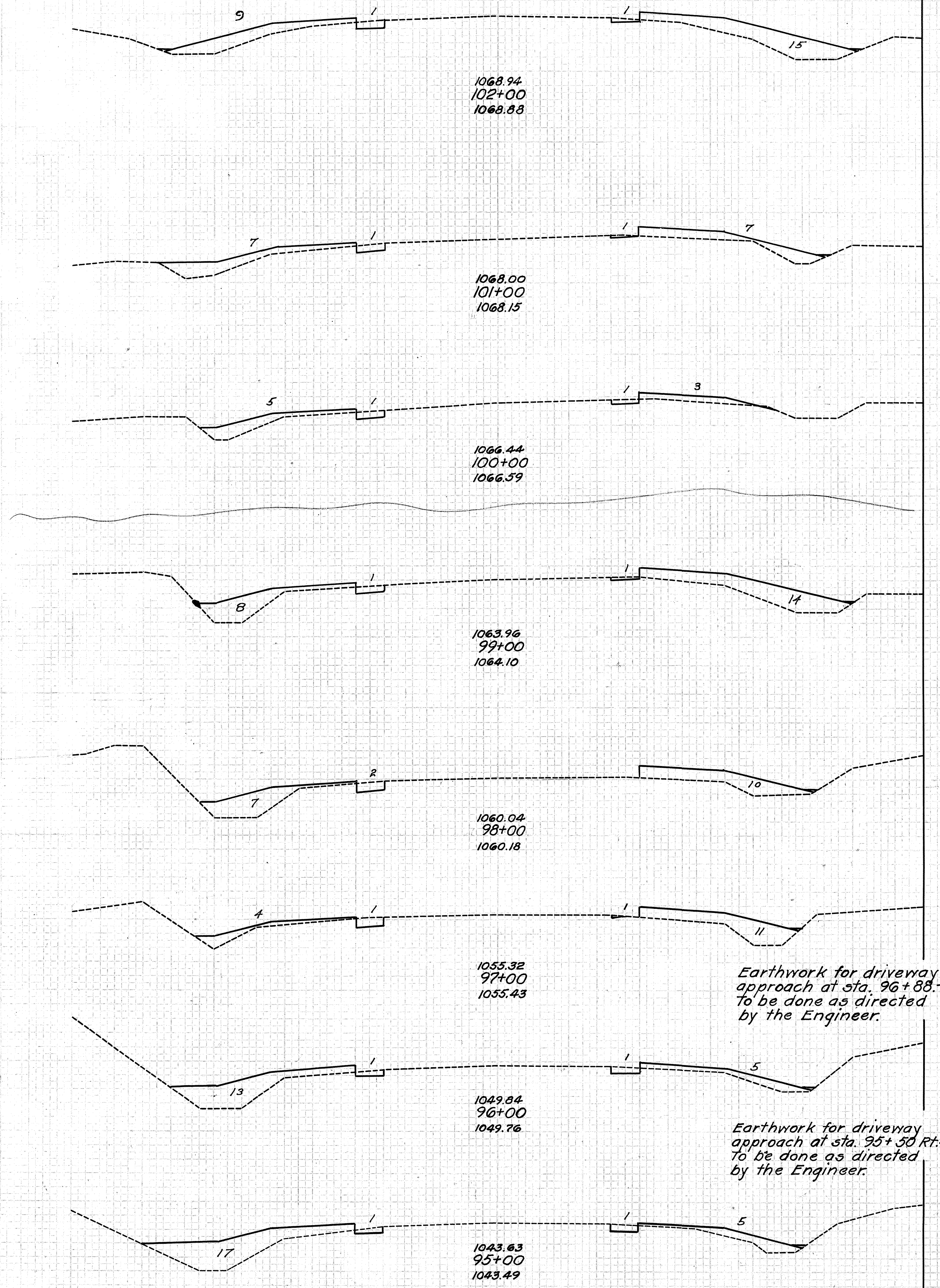
FED. AID DIST. NO.	STATE	FED. AID PROJECT YEAR	FISCAL YEAR
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HIGHLAND COUNTY
S. H. 259 SEC. R (PART)

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
		15	82
6	24		
		15	96
2	28		
		9	83
3	17		
		9	50
2	10		
		6	56
1	20		
		8	
		7	74
3	20		
		9	96
2	32		
		6	
		7	111
2	28		
		7	96

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
2	24		
		7	70
2	14		
		7	41
2	8		
		7	56
2	22		
		7	72
2	17		
		7	59
2	15		
		2	
		7	61
2	18		
		7	74
		2	
		2	22
		6	96



Earthwork for driveway approach at sta. 96+88. To be done as directed by the Engineer.

Earthwork for driveway approach at sta. 95+30 Rt. To be done as directed by the Engineer.

Earthwork for road approach at sta. 105+48 Lt. To be done as directed by the Engineer.

Earthwork for road approach at sta. 103+07 Rt. To be done as directed by the Engineer.

End Area	Cu. Yds.	End Area	Cu. Yds.
Cut	Fill	Cut	Fill
		1	16
			137
			30
		73	0
			337
			0
		109	0
			733
			0
		287	0
			594
			0
		354	0
			508
			0
		195	0
			370
			283
		5	153
			13
			393
		2	59
			6
			193
		1	45
			9
			111
		4	15
			11
			65
		2	20

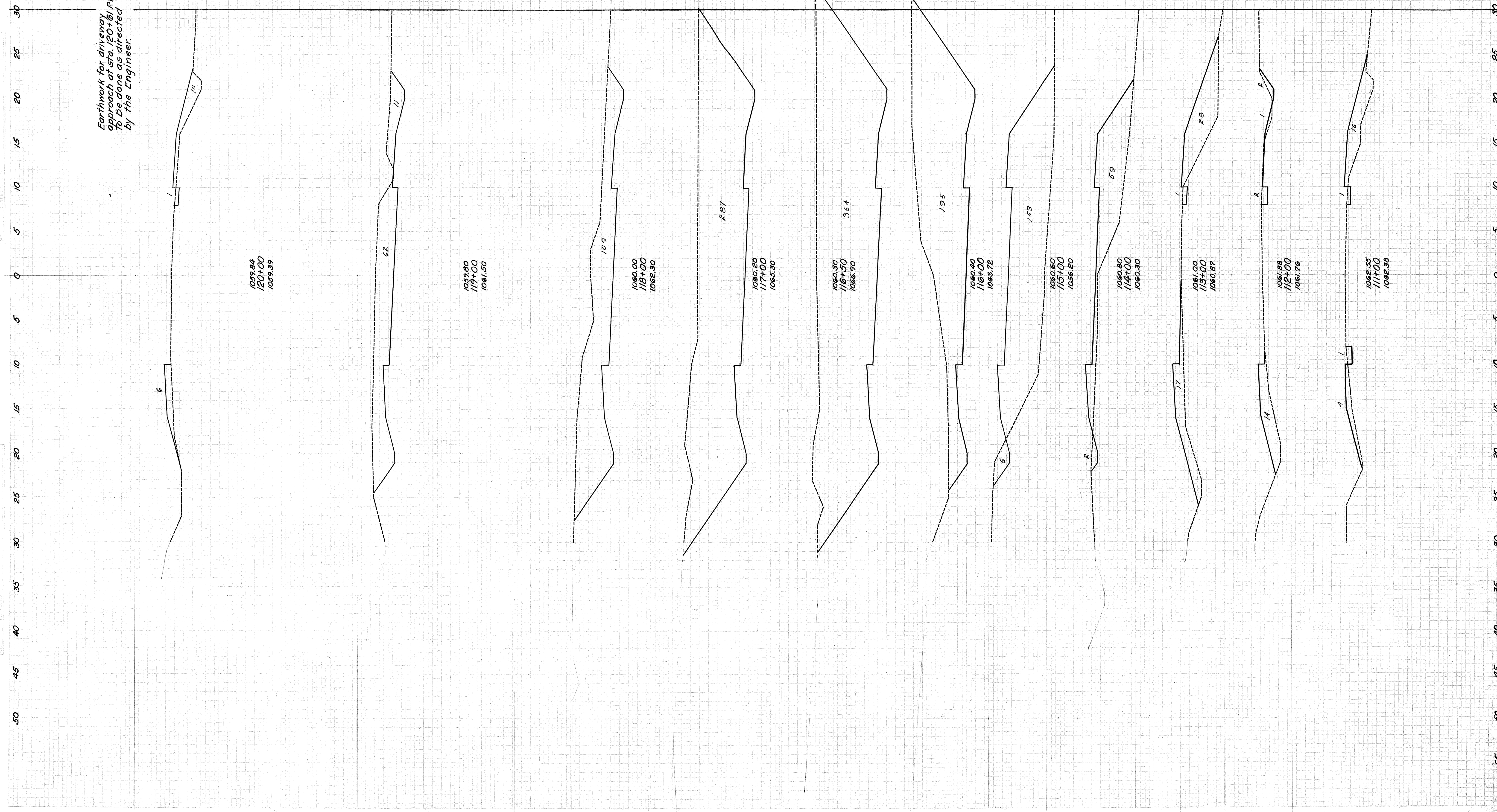
FED. AID DIST. NO. 10 STATE OHIO FED. AID PROJECT YEAR 676-B 1933

HIGHLAND COUNTY SEC. R (PART)

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Earthwork for driveway approach at sta. 120+61 Rt. to be done as directed by the Engineer.



1039.84
120+00
1039.39

1059.80
119+00
1061.30

1060.00
118+00
1062.30

1060.20
117+00
1065.30

1060.30
116+30
1066.30

1060.40
116+00
1063.72

1060.60
115+00
1056.20

1060.80
114+00
1060.30

1061.00
113+00
1060.87

1061.88
112+00
1061.76

1062.55
111+00
1062.36

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

End Area		Cu. Yds	
Cut	Fill	Cut	Fill

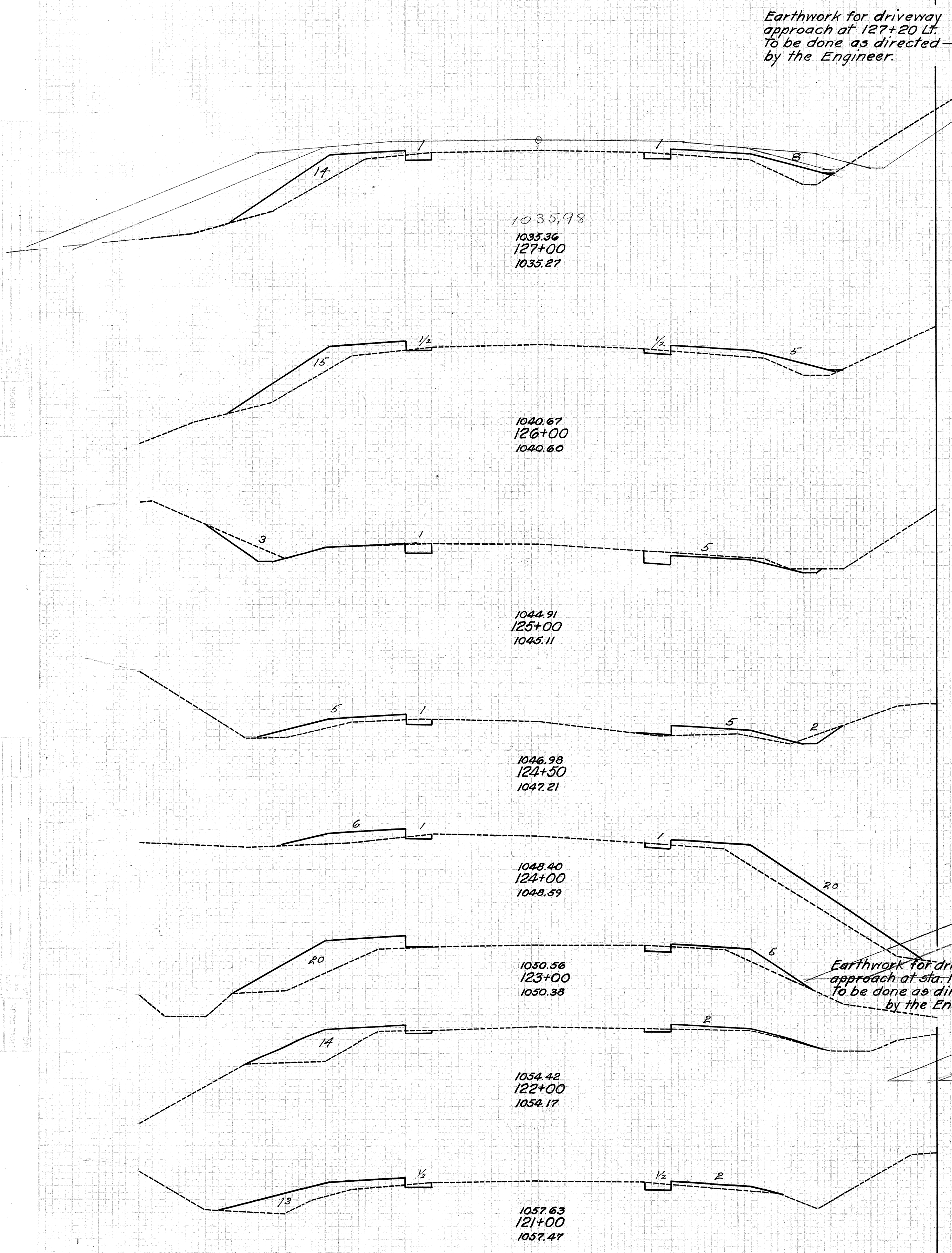
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PROJECT NO.**

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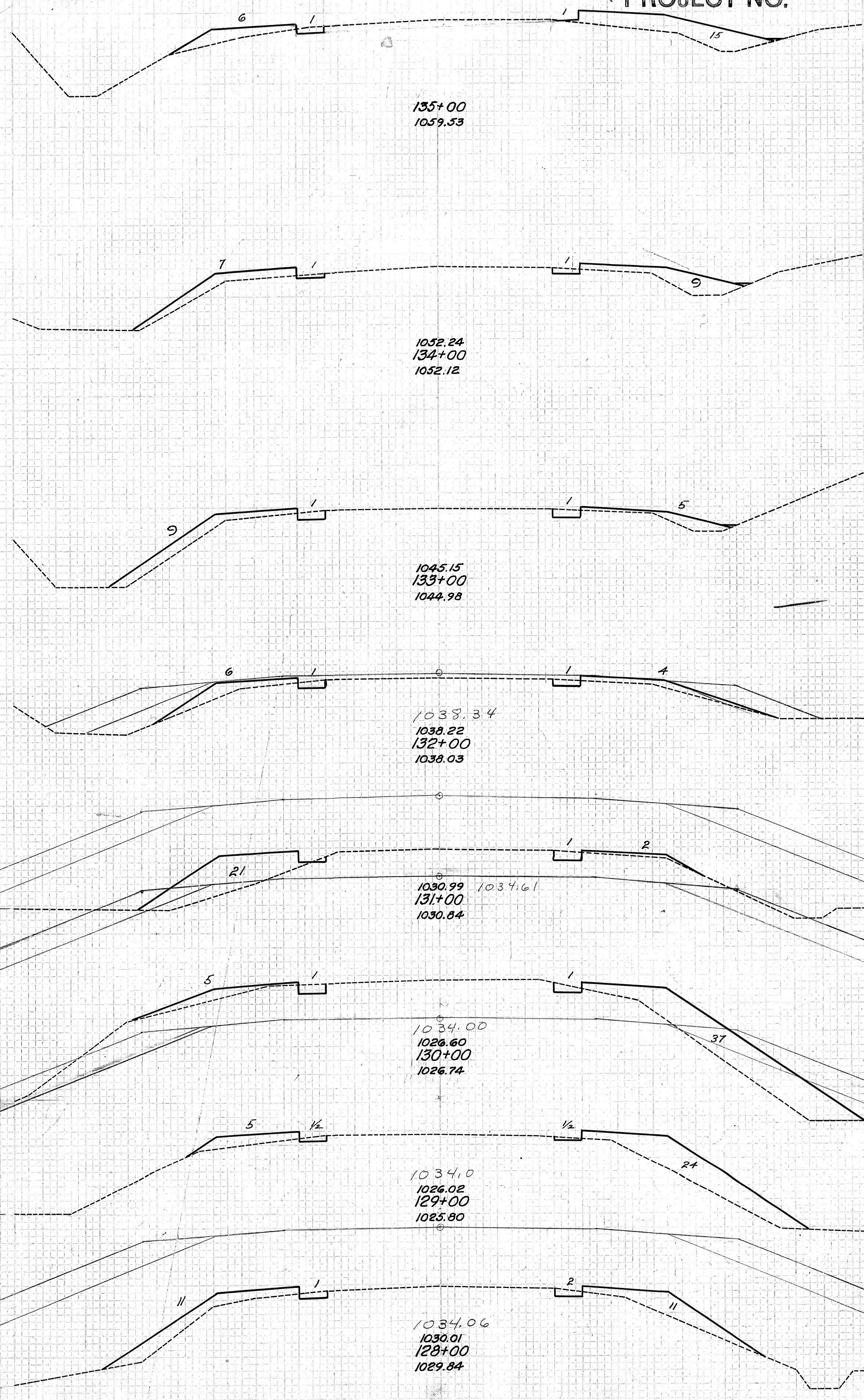
HIGHLAND COUNTY
S. H. 259 SEC. R (PART)



Earthwork for driveway approach at 127+20 Lt. To be done as directed by the Engineer.

Earthwork for driveway approach at sta. 123+95. To be done as directed by the Engineer.

End Area		Cu. Yds	
Cut	Fill	Cut	Fill
2	22		35
		6	78
1	20		
		19	37
9	0		
		11	9
		3	10
		5	33
2	26		
		6	94
1	25		2
		4	76
1	16		
		4	57
1	15		
		4	57



End Area		Cu. Yds	
Cut	Fill	Cut	Fill
2	21		
		7	69
2	16		
		7	56
2	14		
		7	44
		2	10
		6	61
1	23		
		6	120
2	42		
		6	132
1	29		
		7	94
3	22		
		9	82

Excavation
Embankment
Emb. +15%
Borrow

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

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

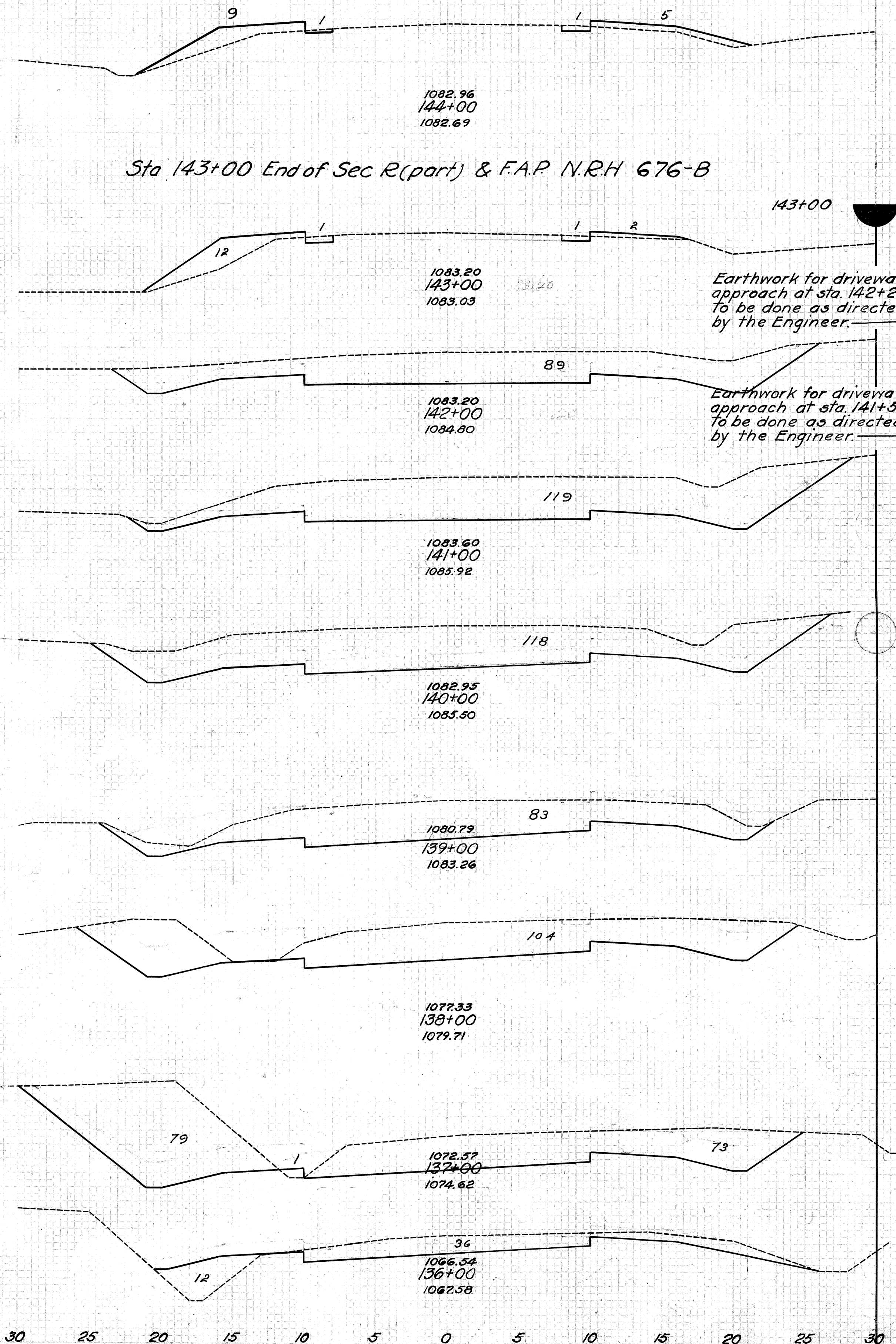
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End Area Cu. Yds.
Cut Fill Cut Fill

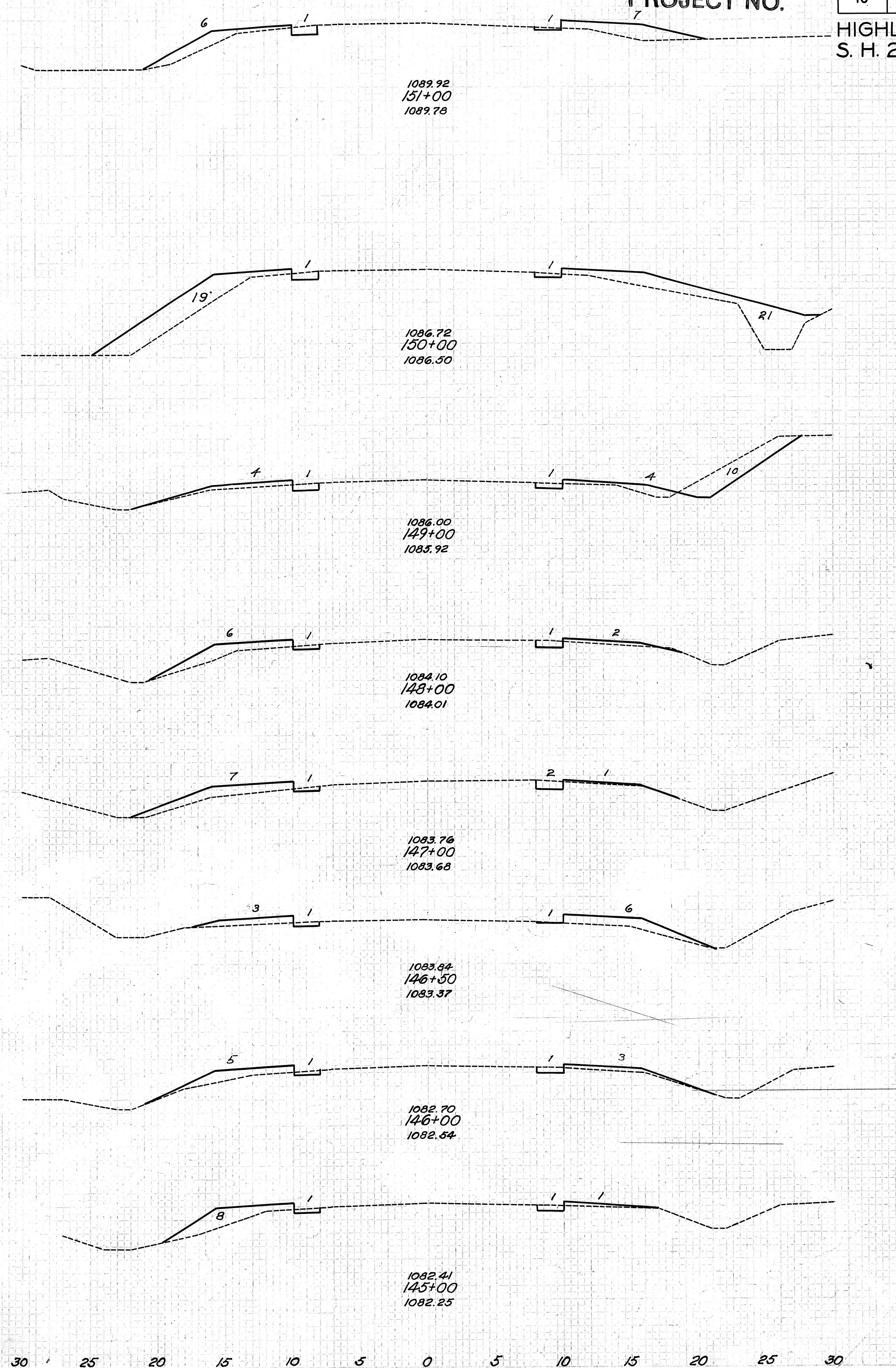
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HIGHLAND COUNTY S. H. 259 SEC. R(PART)

End Area Cu. Yds.
Cut Fill Cut Fill



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
2	14		
89	0	169	26
385	0		2
119	0		5
		77	
		0	
		362	
118	0		
		372	0
83	0		
		346	0
104	0		
		474	2
152	1		
		348	24
36	12		
		70	61



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

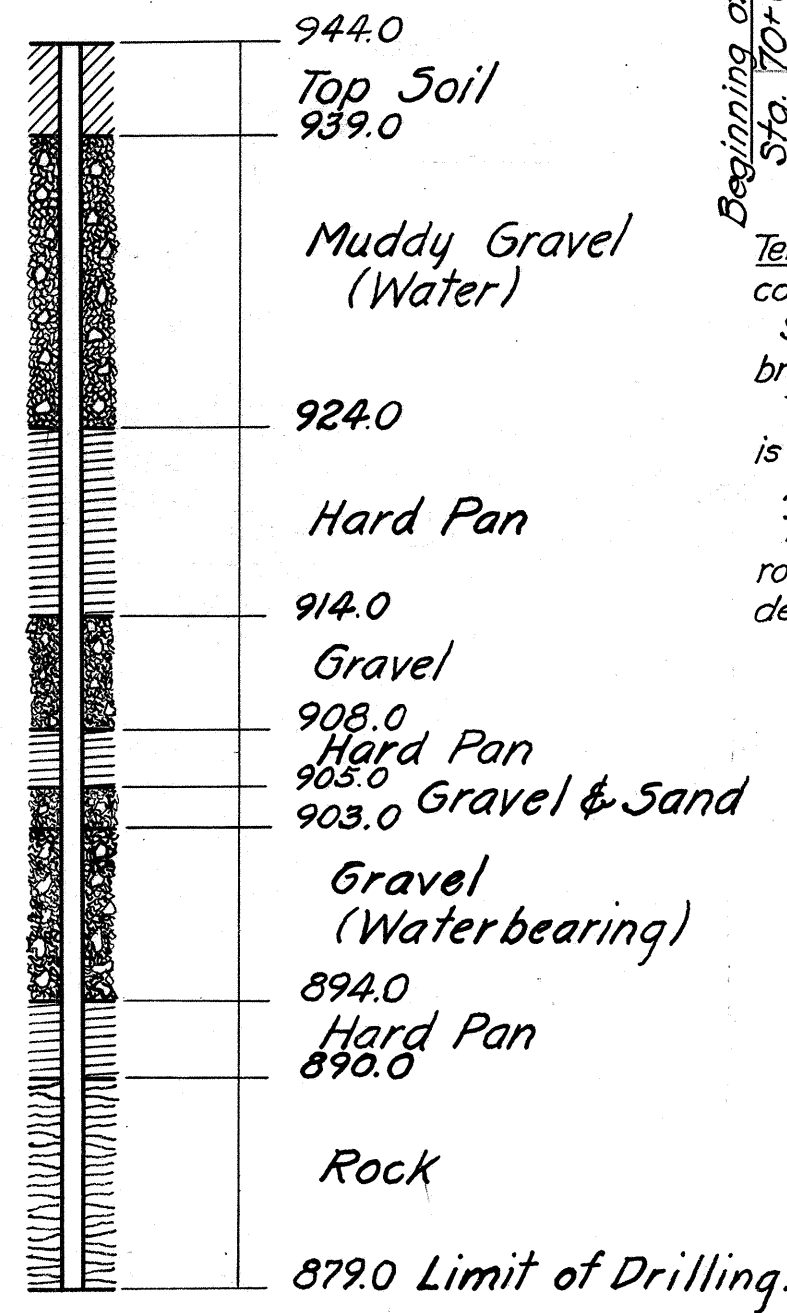
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HIGHLAND COUNTY
S. H. 259 SEC. R (PART)

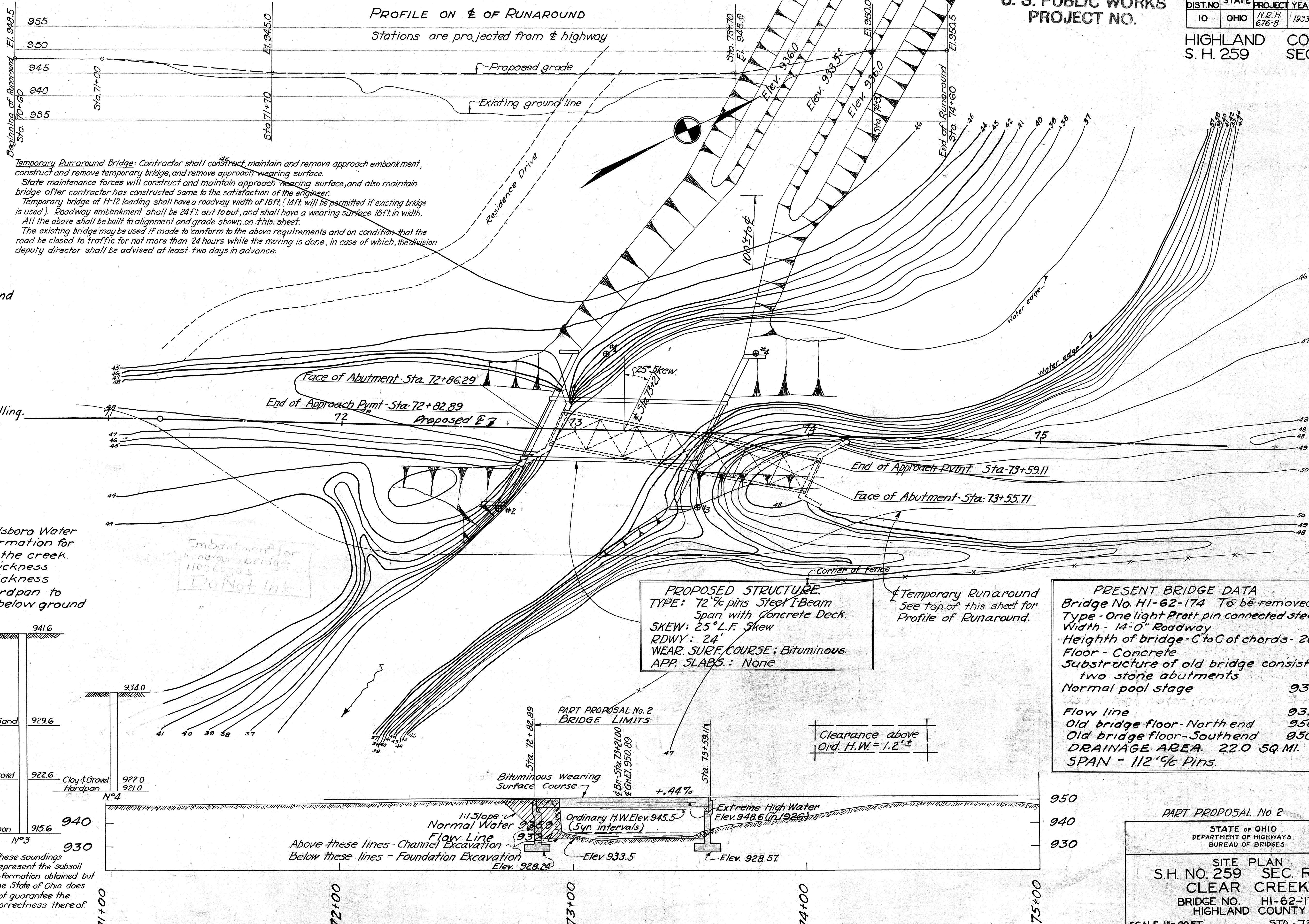
WATER WELL LOG
70 Rt - Sta 67+65
Drilled 1932



Temporary Runaround Bridge: Contractor shall construct, maintain and remove approach embankment, construct and remove temporary bridge, and remove approach wearing surface.
State maintenance forces will construct and maintain approach wearing surface, and also maintain bridge after contractor has constructed same to the satisfaction of the engineer.
Temporary bridge of H-12 loading shall have a roadway width of 18ft. (14ft. will be permitted if existing bridge is used). Roadway embankment shall be 24ft. out to out, and shall have a wearing surface 18ft. in width.
All the above shall be built to alignment and grade shown on this sheet.
The existing bridge may be used if made to conform to the above requirements and on condition that the road be closed to traffic for not more than 24 hours while the moving is done, in case of which, the division deputy director shall be advised at least two days in advance.

PROFILE ON & OF RUNAROUND

Stations are projected from & highway



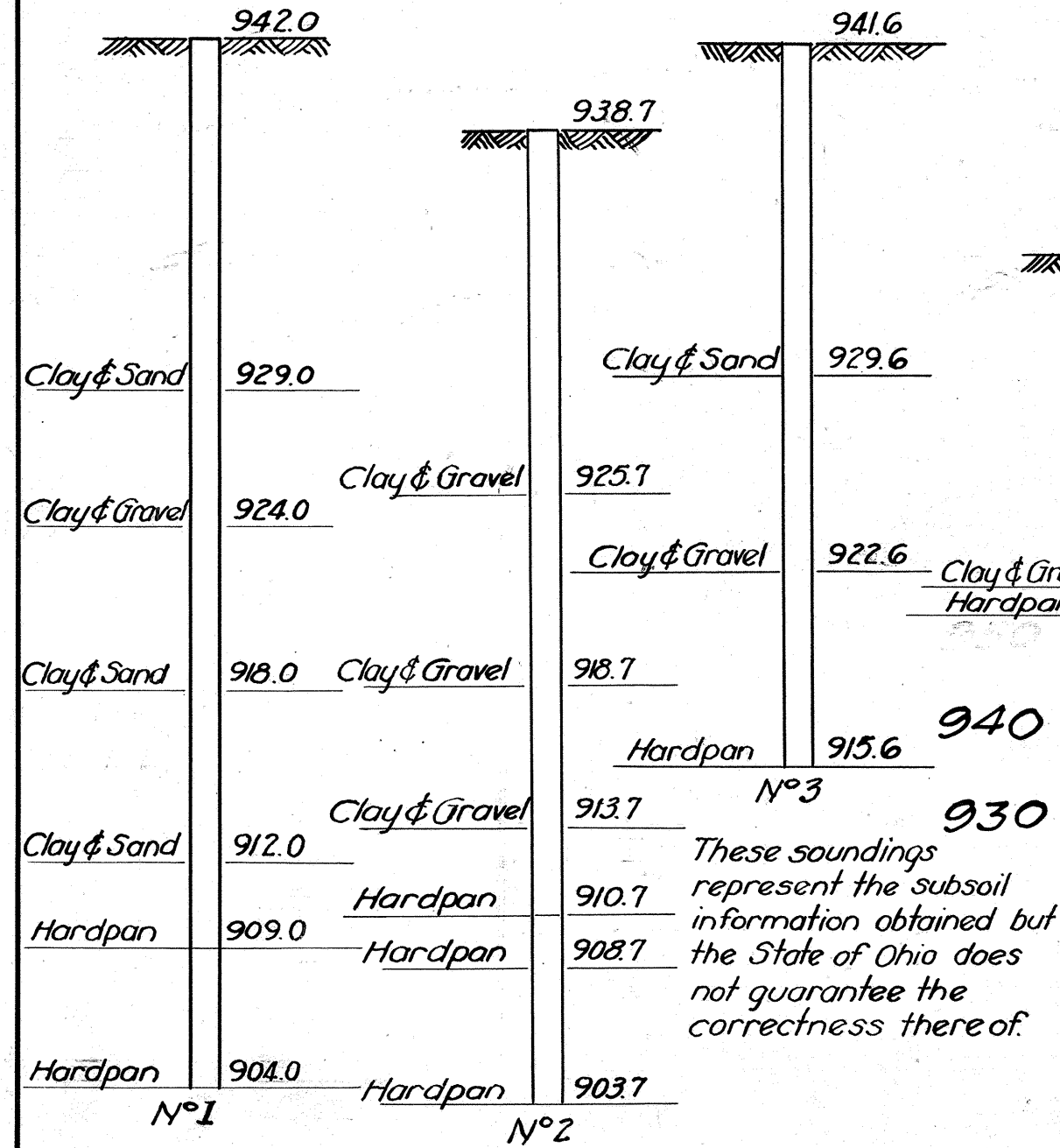
Wells drilled for the Hillsboro Water Works show similar formation for the ground adjacent to the creek.
Top Soil 5' to 9' thickness
Gravel 10 to 15' thickness
Sand, Gravel & Hardpan to solid rock at 47' & 54' below ground surface

Embankment for a narrow bridge
1100 cu yds.
Do Not Ink

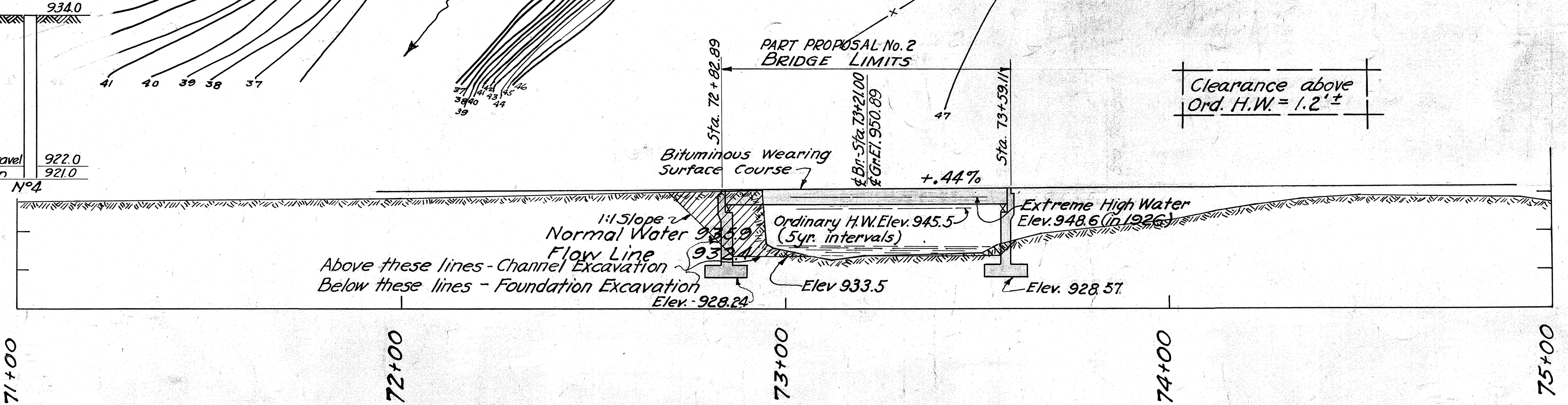
PROPOSED STRUCTURE.
TYPE: 72' 1/2 pins Steel I-Beam
Span with Concrete Deck.
SKEW: 25° L.F. Skew
RDWY: 24'
WEAR. SURF. COURSE: Bituminous.
APP. SLABS.: None

Temporary Runaround
See top of this sheet for Profile of Runaround.

PRESENT BRIDGE DATA
Bridge No. HI-62-174 To be removed.
Type - One light Pratt pin connected steel truss.
Width - 14'-0" Roadway
Height of bridge - C to C of chords - 20'-0"
Floor - Concrete
Substructure of old bridge consists of two stone abutments
Normal pool stage 935.9
Flow line 932.4
Old bridge floor - North end 950.5
Old bridge floor - South end 950.4
DRAINAGE AREA 22.0 SQ. MI.
SPAN - 112' 1/2 Pins.



These soundings represent the subsoil information obtained but the State of Ohio does not guarantee the correctness thereof.



PART PROPOSAL No. 2

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN
S.H. NO. 259 SEC. R
CLEAR CREEK
BRIDGE NO. HI-62-174
HIGHLAND COUNTY

SCALE 1" = 20 FT. STA. - 73+21

PRESENT TOPOG.		PROPOSED WORK			
SURVEYED	DRAWN	Des.	Drn.	Chd	Revd
WRE	WRE	WRE	WRE	WRE	WRE

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

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

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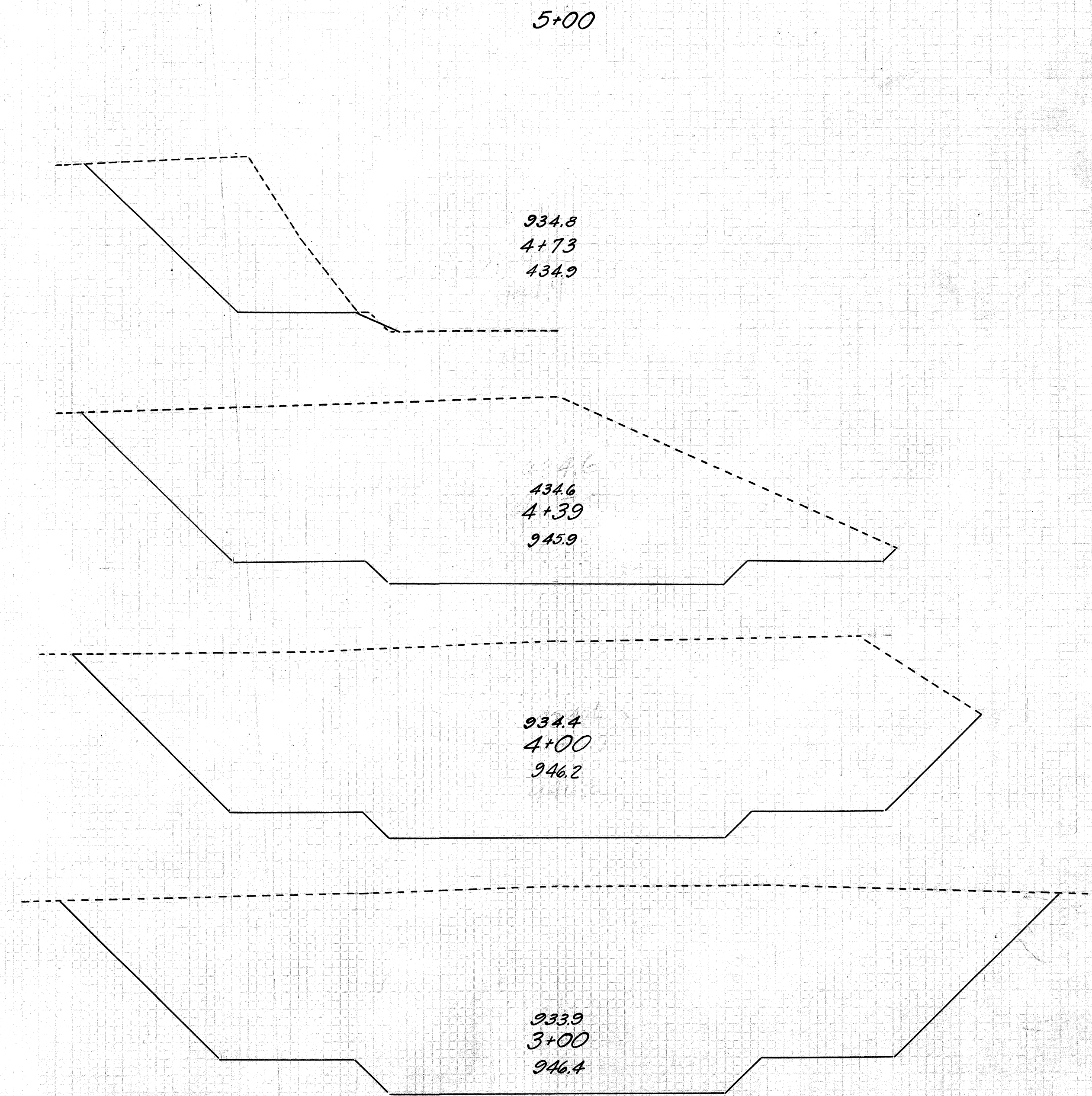
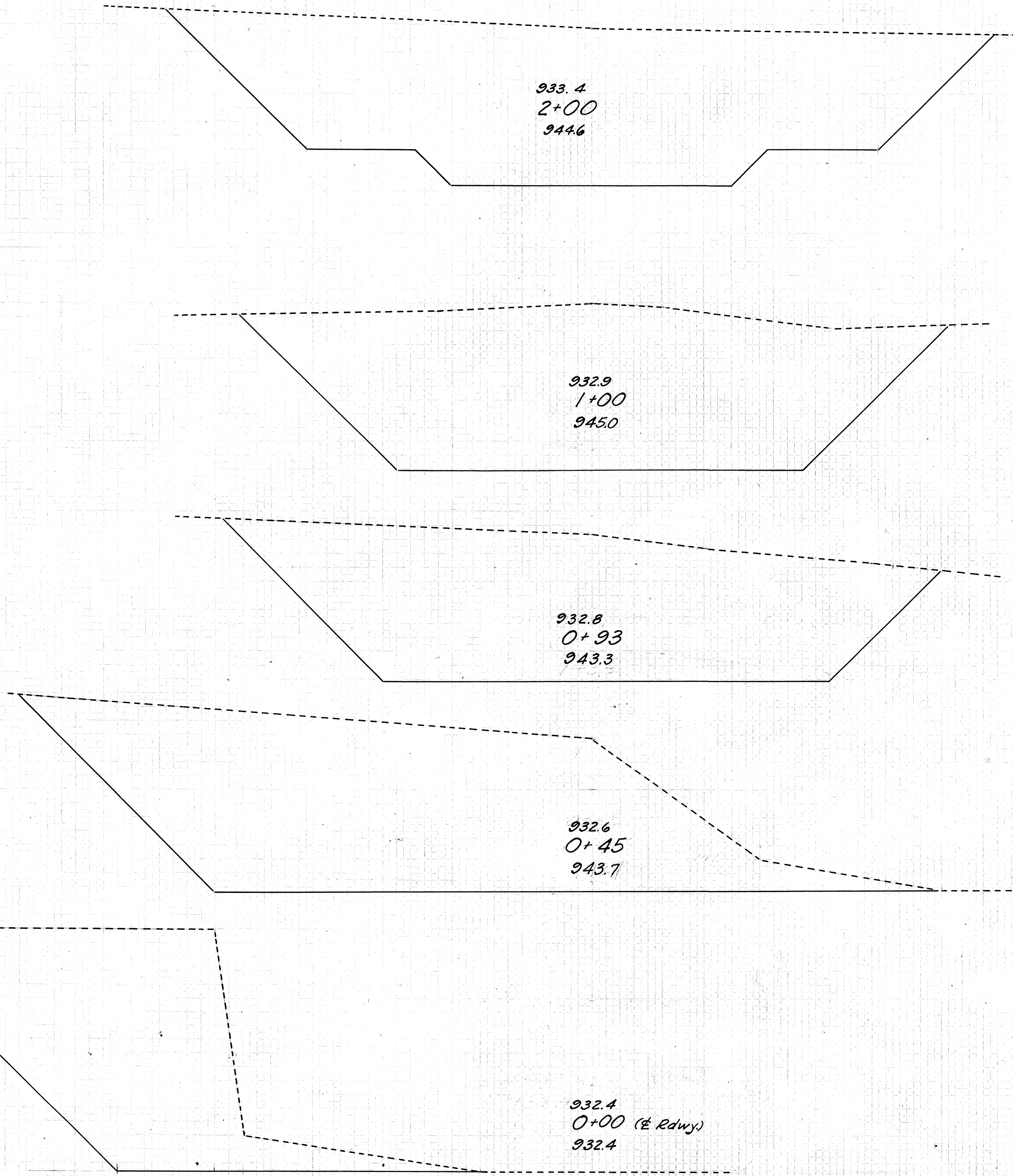
HIGHLAND COUNTY
S.H. 259 SEC. R(PART)

CHANNEL CROSS SECTIONS FOR CLEAR CREEK BRIDGE
STA 73+21

End Area	Cu. Yds.
498	
1756	
450	
112	
418	
820	
505	
687	
320	
415	
0	

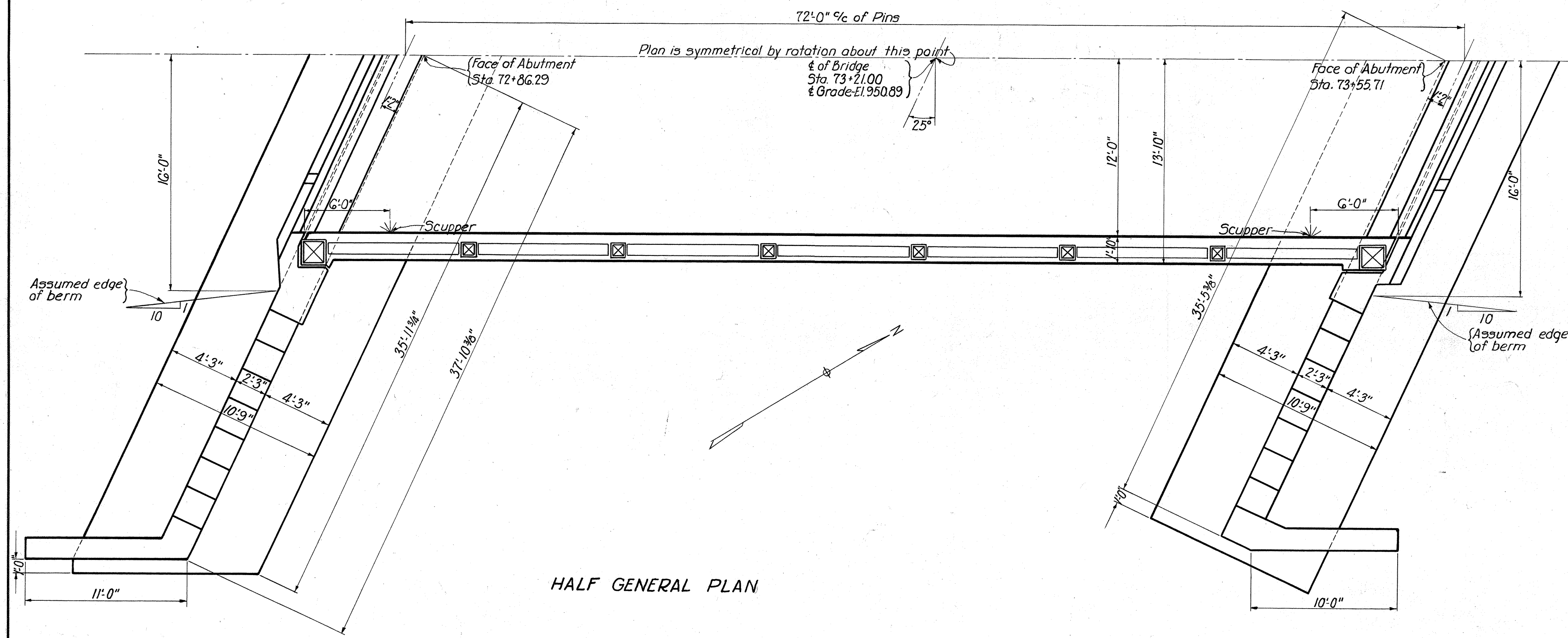
End Area	Cu. Yds.
0	
39	
77	
275	
360	
617	
485	
1934	
549	
1939	

TOTAL 8594 Cu. Yd

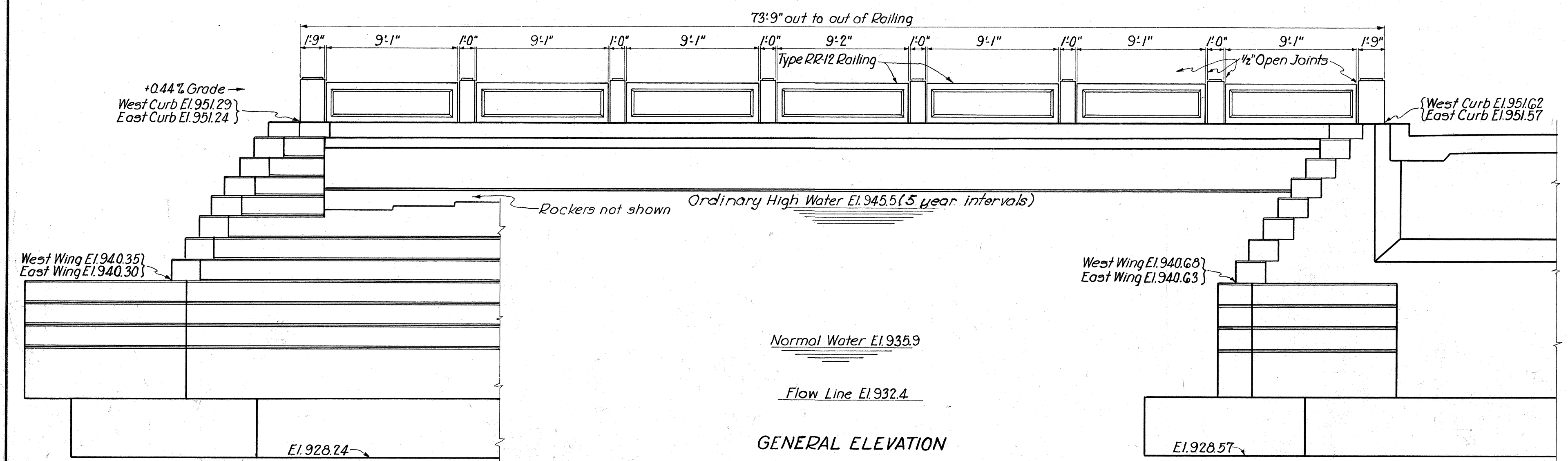


40 35 30 25 20 15 10 5 5 10 15 20 25 30

40 35 30 25 20 15 10 5 5 10 15 20 25 30



HALF GENERAL PLAN



GENERAL ELEVATION

GENERAL NOTES

SUPERSTRUCTURE. Shall be a steel beam span (72' pins) with a concrete deck, and a 24' roadway, and shall have a 25' left forward skew.

LOADING. H15-33

EXCAVATION. Channel excavation shall include all excavation within limits shown on site plan, and channel cross-sections. All excavation above elevation 936.0 not included in channel excavation shall be classified as "foundation excavation, dry." All excavation below elevation 936.0 not included in channel excavation shall be classified as "foundation excavation, wet."

REMOVAL OF EXISTING STRUCTURE. Present superstructure shall be carefully dismantled, and neatly piled along the right of way at the disposal of the state forces, when it is no longer used for traffic purposes. Present abutments shall be removed to 2' below the proposed ground line, and disposed of as rip-rap as directed by the engineer.

POROUS BACKFILL. Shall be placed as shown full length of abutments and wings. Any undisturbed earth above the 10% slope line need not be replaced by porous backfill. Payment for this backfill shall be included in excavation.

CONCRETE MIX. All concrete in superstructure shall be 1-5/2 mix. All concrete in footings and abutment walls shall be 1-6/2 mix.

CONSTRUCTION JOINTS. No horizontal construction joints other than those shown will be permitted in substructure. Additional vertical construction joints will be allowed only by special permission of the engineer. Such joints shall be keyed and waterproofed as shown for joint at center of bridge, at the contractor's expense. Location and type of construction joints in superstructure shall be approved by the engineer.

CHAMFER. All exposed edges 3/4" unless otherwise shown.

RIVETS. Shall be 7/8"

ANCHOR BOLTS. Shall be 1 1/4" set 1'-0" in masonry.

CAMBER. Beams shall have a camber of approximately 3/8" under no load, the purpose of which is to offset dead load deflection.

END FINISH. Shall be used as a template for top of backwall.

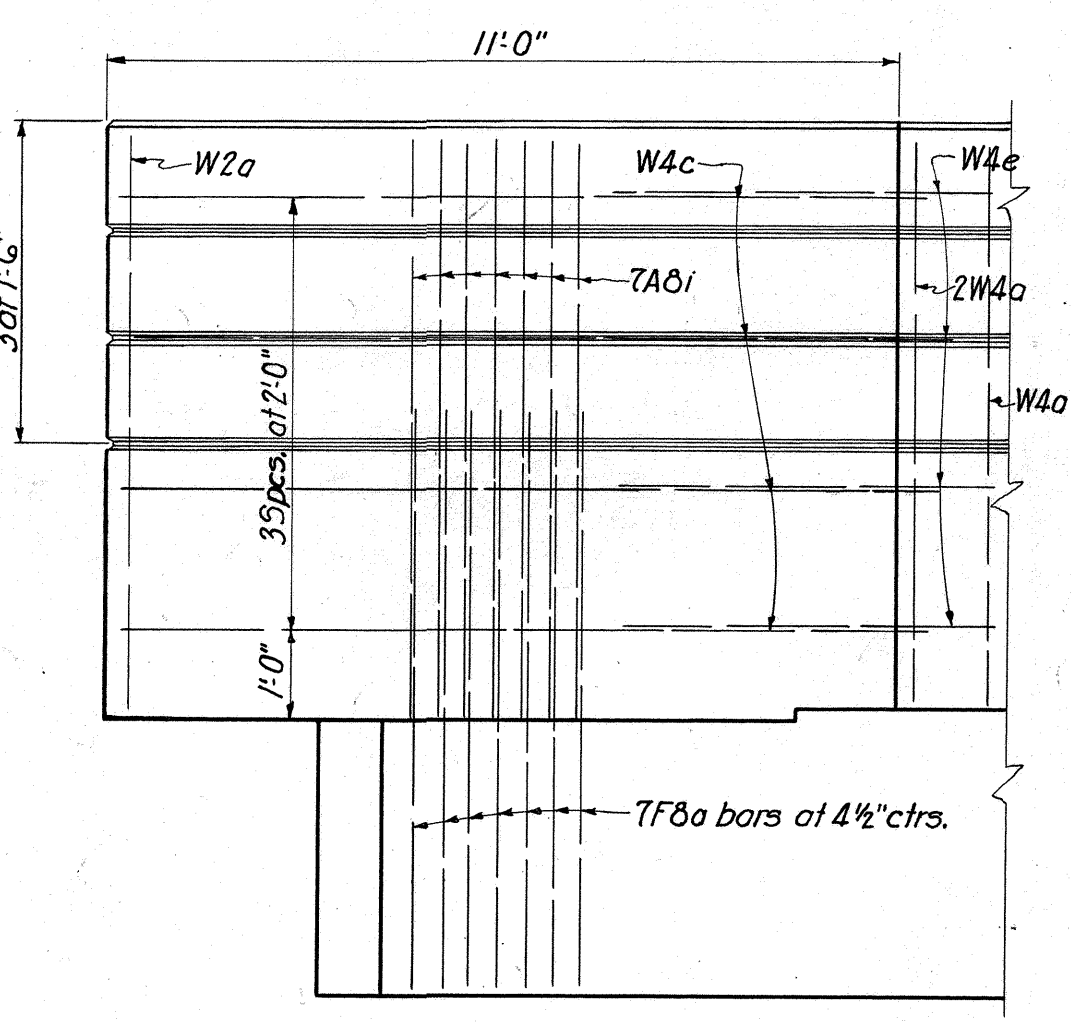
SETTING ROCKERS. The rockers shall be so placed that when the bridge is completed, the rockers will stand vertical at average temperature.

TEST SPECIMENS. Bars marked Re1, Re2 etc. in the steel list shall be used to replace the test specimens cut from the reinforcing steel.

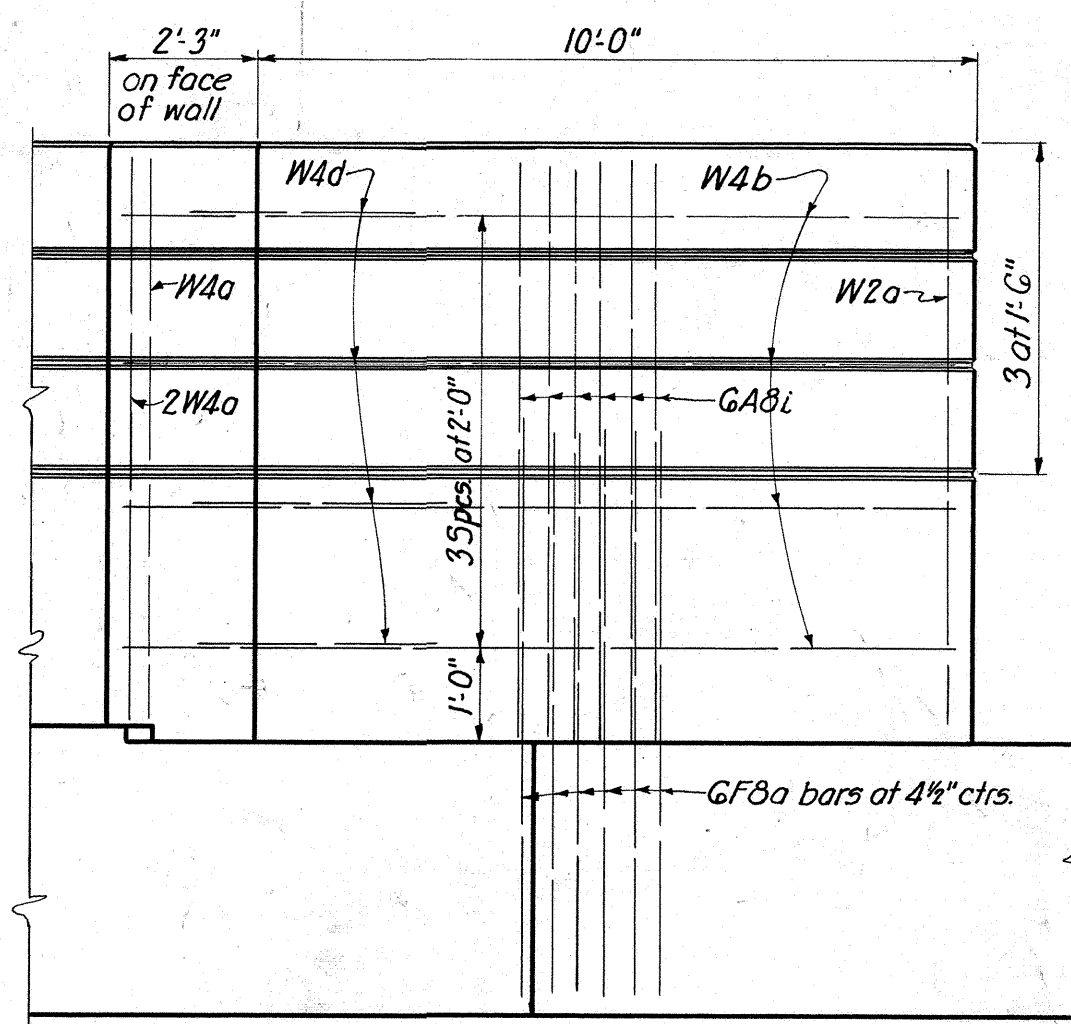
CONCRETE SLAB. No overall camber will be required in slab but special care shall be taken to prevent depressions, that will hold water, along the curbs.

ESTIMATED QUANTITIES

Cofferdams, Sheeting and Pumping	Lump Sum
Foundation Excavation, Dry	70 Cu. Yds.
Foundation Excavation, Wet	470 Cu. Yds.
Concrete, Superstructure 1-5/2	53 Cu. Yds.
Concrete, Walls 1-6/2	218 Cu. Yds.
Concrete, Footings 1-6/2	219 Cu. Yds.
Waterproofing (Type B) 36" width	40 Sq. Yds.
Reinforcing Steel	29,800 Lb.
Reinforced Concrete Railing (R2-12) 1-5/2	147.5 Lin. Ft.
Structural Steel	110,000 Lb.
Steel Castings	4,470 Lb.
Temporary Runaround Bridge & Approaches	Lump Sum
First Test Pile (Timber)	Lump Sum
15" Timber Piling (To establish unit price applying to any quantity from 0 lin. ft. to 3500 lin. ft.)	1 Lin. Ft.
Removal of Existing Structure	Lump Sum
Cast Iron Scuppers (Serial B-33)	4 Pieces
2 1/2" to 3 1/4" Bituminous Surface Course	155.1 Sq. Yds.
3 1/2" to 4 1/2" Portland Cement Concrete Marginal Surface Course	31 Sq. Yds.



ELEVATION OF SE & NW WINGS

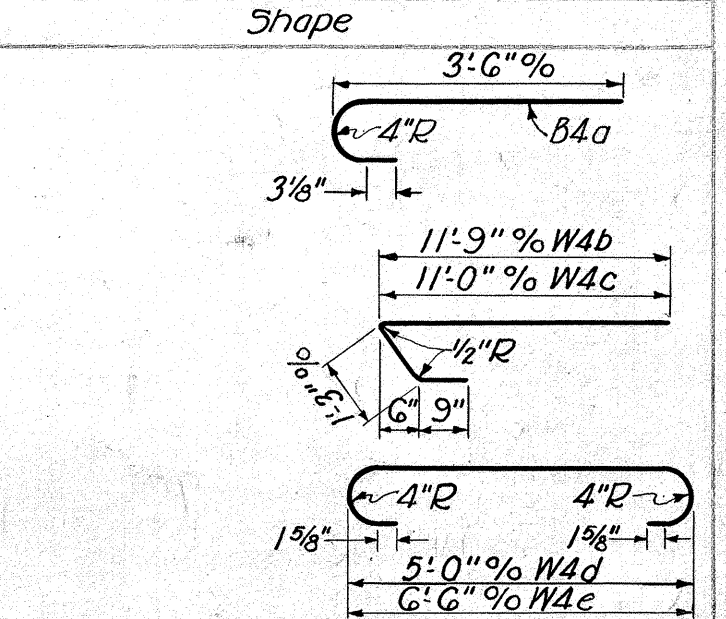


ELEVATION OF SW & NE WINGS

Mark	Size	No	Length	Weight	Shape
F4a	3/8"	48	27'-0"	1353	Str.
F4b	3/8"	24	10'-3"	257	Str.
F4c	3/8"	44	10'-0"	459	Str.
F5a	3/4"	320	9'-0"	4329	Bt.
F8a	1"	192	9'-6"	6205	Bt.
A8a	1"	38	13'-3"	1713	Str.
A8b	1"	14	18'-0"	855	Str.
A8c	1"	4	17'-0"	231	Str.
A8d	1"	6	15'-6"	316	Str.
A8e	1"	6	14'-0"	286	Str.
A8f	1"	4	12'-9"	174	Str.
A8g	1"	6	11'-3"	230	Str.
A8h	1"	4	9'-9"	133	Str.
A8L	1"	28	8'-3"	784	Str.
A4a	3/8"	8	38'-0"	317	Str.
A4b	3/8"	8	34'-0"	284	Str.
A4c	3/8"	2	35'-0"	73	Str.
A4d	3/8"	4	32'-9"	137	Str.
A4e	3/8"	4	30'-6"	127	Str.
A4f	3/8"	2	28'-3"	59	Str.
A4g	3/8"	28	10'-0"	292	Str.
A2a	1/2"	20	13'-0"	174	Str.
A2b	1/2"	92	5'-6"	338	Bt.
B2a	1/2"	8	21'-9"	116	Bend in field
B2b	1/2"	8	22'-3"	89	Bend in field
B2c	1/2"	8	19'-6"	108	Bend in field
B2d	1/2"	8	21'-0"	84	Bend in field

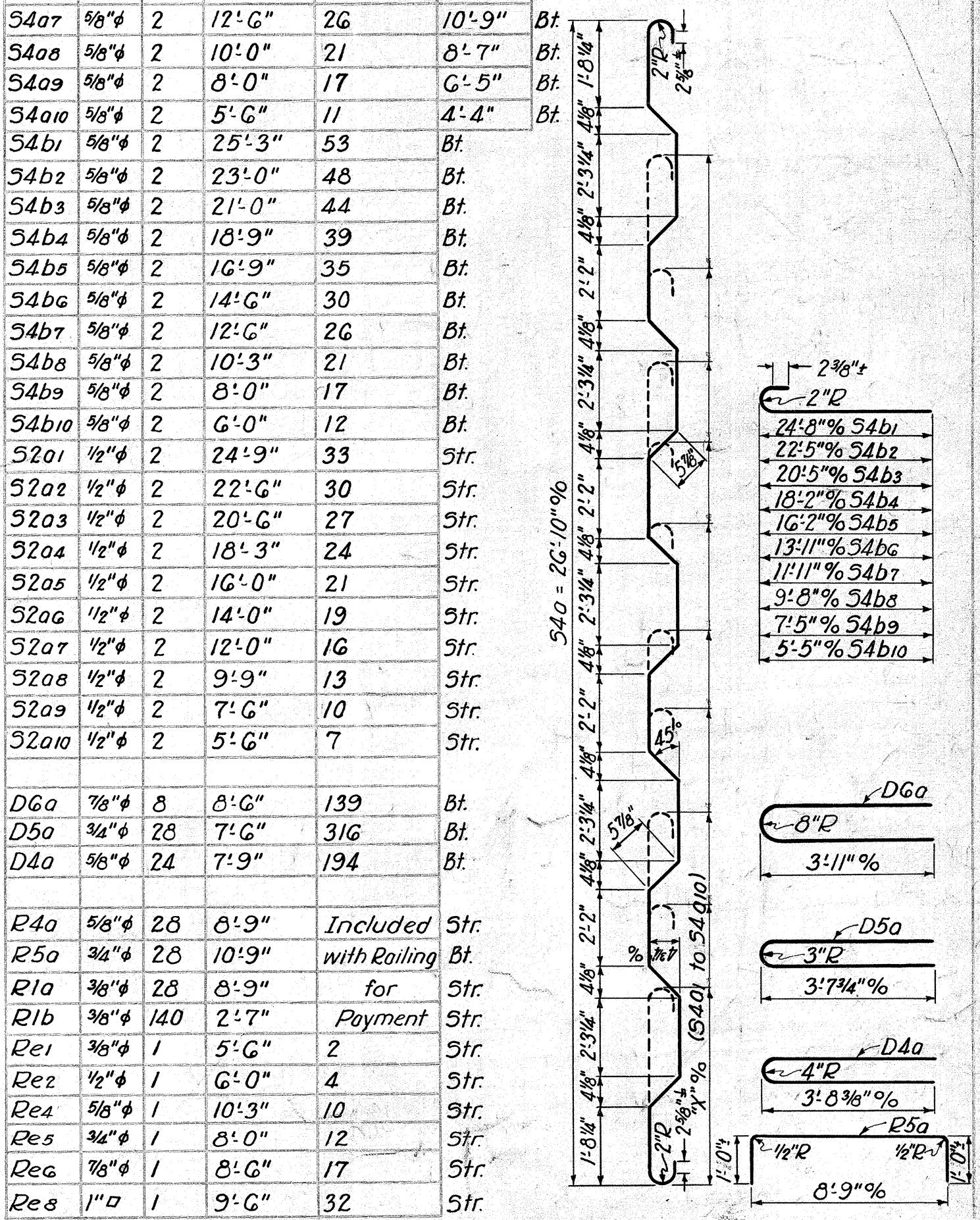
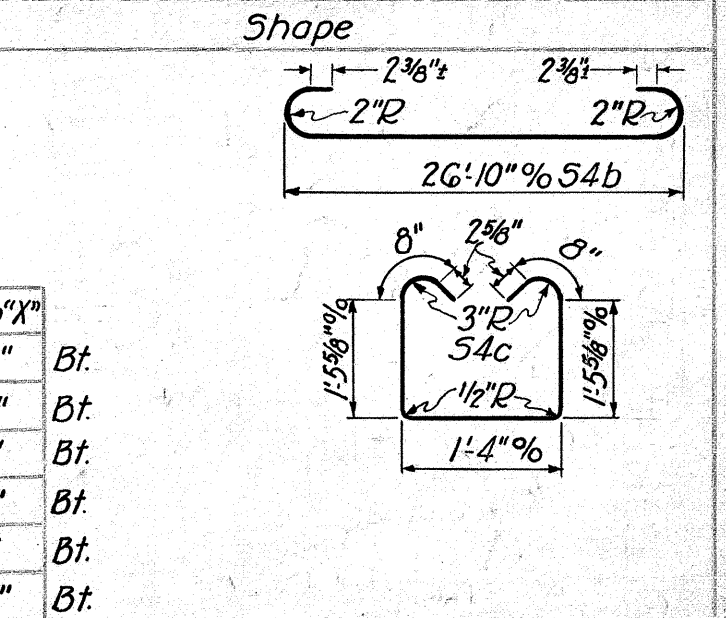
ABUTMENT STEEL CONT'D.

Mark	Size	No	Length	Weight	Shape
B4a	3/8"	10	4'-6"	47	Bt.
B5a	3/4"	28	13'-6"	568	Bt.
B5b	3/4"	4	15'-6"	93	Bt.
B5c	3/4"	18	10'-6"	284	Bt.
B5d	3/4"	14	10'-0"	210	Bt.
W4a	3/8"	12	8'-0"	100	Str.
W4b	3/8"	8	13'-9"	115	Bt.
W4c	3/8"	8	13'-0"	109	Bt.
W4d	3/8"	8	6'-9"	56	Bt.
W4e	3/8"	8	8'-3"	69	Bt.
W2a	1/2"	4	8'-3"	22	Str.



SUPERSTRUCTURE STEEL

Mark	Size	No	Length	Weight	Shape
S4a	3/8"	G2	29'-6"	1909	Bt.
S4b	3/8"	G1	28'-0"	1783	Bt.
S2a	1/2"	G1	26'-9"	1090	Str.
S2b	1/2"	78	26'-0"	1355	Str.
S4c	3/8"	102	5'-3"	559	Bt.
S4d	3/8"	12	26'-0"	326	Str.
S4a1	3/8"	2	26'-0"	54	23'-8" Bt.
S4a2	3/8"	2	23'-9"	50	21'-6" Bt.
S4a3	3/8"	2	21'-3"	44	19'-4" Bt.
S4a4	3/8"	2	19'-3"	40	17'-2" Bt.
S4a5	3/8"	2	16'-9"	35	15'-0" Bt.
S4a6	3/8"	2	14'-6"	30	12'-10" Bt.
S4a7	3/8"	2	12'-6"	26	10'-9" Bt.
S4a8	3/8"	2	10'-0"	21	8'-7" Bt.
S4a9	3/8"	2	8'-0"	17	6'-5" Bt.
S4a10	3/8"	2	5'-6"	11	4'-4" Bt.
S4b1	3/8"	2	25'-3"	53	Bt.
S4b2	3/8"	2	23'-0"	48	Bt.
S4b3	3/8"	2	21'-0"	44	Bt.
S4b4	3/8"	2	18'-9"	39	Bt.
S4b5	3/8"	2	16'-9"	35	Bt.
S4b6	3/8"	2	14'-6"	30	Bt.
S4b7	3/8"	2	12'-6"	26	Bt.
S4b8	3/8"	2	10'-3"	21	Bt.
S4b9	3/8"	2	8'-0"	17	Bt.
S4b10	3/8"	2	6'-0"	12	Bt.
S2a1	1/2"	2	24'-9"	33	Str.
S2a2	1/2"	2	22'-6"	30	Str.
S2a3	1/2"	2	20'-6"	27	Str.
S2a4	1/2"	2	18'-3"	24	Str.
S2a5	1/2"	2	16'-0"	21	Str.
S2a6	1/2"	2	14'-0"	19	Str.
S2a7	1/2"	2	12'-0"	16	Str.
S2a8	1/2"	2	9'-9"	13	Str.
S2a9	1/2"	2	7'-6"	10	Str.
S2a10	1/2"	2	5'-6"	7	Str.



NOTE: All radii are to inside of bar. Lengths are measured along 1/2 of bars. Dimensions are to 1/2 of bar unless marked % (out to out).

GENERAL PLAN & ELEVATION ELEVATIONS OF WINGS, GENERAL NOTES, ESTIMATED QUANTITIES & STEEL LIST

BRIDGE NO. H1-02-174 OVER CLEAR CREEK

HIGHLAND CO. SECTION-R STATION 73+21

DESIGNED: W.S.G. DRAWN: W.F. TRACED: A.W.C. CHECKED: S.R.R. REVIEWED: R.K.C. DATE: MAY 9-23-33

Part Proposal No. 2

