

INDEX OF SHEETS

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- SHEET NO. 11-15 STANDARD DETAILS
- SHEET NO. — DRAINAGE STRUCTURES
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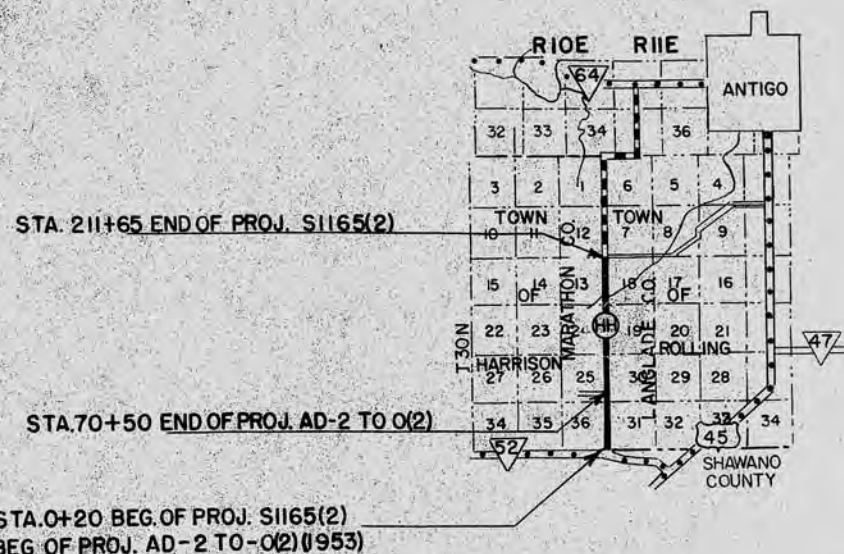
STATE OF WISCONSIN  
STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED  
**S.T.H. 52 - C.T.H. G ROAD**  
C.T.H. "HH"  
LANGLADE AND MARATHON COUNTIES  
PROJECT S1165(2)

BEGINNING AT A POINT APPROXIMATELY 40' SOUTH OF THE SOUTHEAST CORNER OF SEC. 36, T.30N. R.10E. AND EXTENDING NORTHERLY TO A POINT APPROXIMATELY 12 FT. SOUTH OF THE NORTHEAST CORNER OF SEC. 13, T.30N. R.10E.

SCALES PLAN 1 IN. = 100 FT.  
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.  
CROSS SECTIONS HOR. 1 IN. = 5 FT. VERT. 1 IN. = 5 FT.

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
72.6	1165.0		11.2	WIS 4	1	46



STA. 0+20 BEG. OF PROJ. S1165(2)  
= BEG. OF PROJ. AD-2 TO -0(2) (1953)

CONVENTIONAL SIGNS

- |                           |  |                               |  |
|---------------------------|--|-------------------------------|--|
| STATE LINE                |  | CULVERTS IN PLACE             |  |
| COUNTY LINE               |  | CULVERTS REQUIRED             |  |
| OWNSHIP OR RANGE LINE     |  | DROP INLET                    |  |
| SECTION LINE              |  | POWER POLE                    |  |
| NEW RIGHT OF WAY LINE     |  | TELEPHONE OR TELEGRAPH POLE   |  |
| PRESENT RIGHT OF WAY LINE |  | RIGHT OF WAY MARKERS          |  |
| WIRE FENCE                |  | REFERENCE STAKE FOR HUBS ONLY |  |
| WOVEN                     |  | MARSH                         |  |
| BARBED                    |  | HEDGE                         |  |
| LOT LINE                  |  | TREES                         |  |
| CORPORATE OR CITY LIMITS  |  |                               |  |
| PROPERTY LINE             |  |                               |  |
| TRAVELED WAY OR P.E.      |  | GROUND ELEVATION              |  |
| RAILROADS                 |  | GRADE ELEVATION               |  |
| BASE OR SURVEY LINE       |  |                               |  |

LAYOUT

SCALE

TOTAL NET LENGTH OF CENTERLINE = 4.005 MI.

APPROVED FOR  
*Marathon County*  
4/1/57  
Date *County Engineer* Title

STATE HIGHWAY COMMISSION OF WISCONSIN  
MADISON, WIS.

SURVEYOR **W.D.** DISTRICT NO. **828** - 8556  
DIVISION COMPTROLLER **J.M.**  
DISTRICT CHECKER **J.B.**

CORRECT:  
DATE **4-4-1957** *Henry Winant*  
DISTRICT ENGINEER

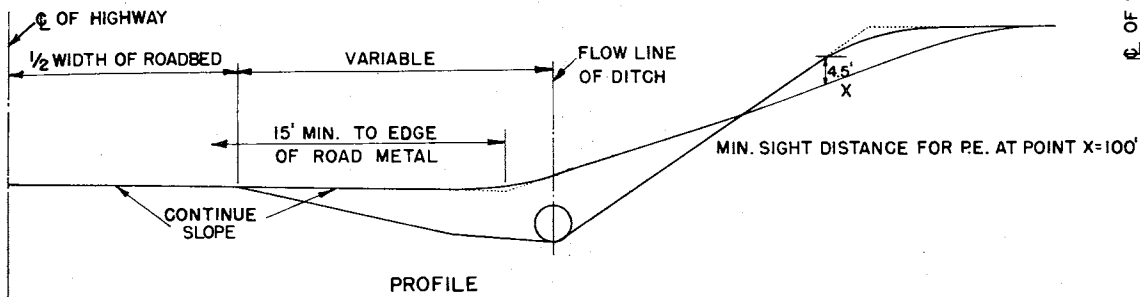
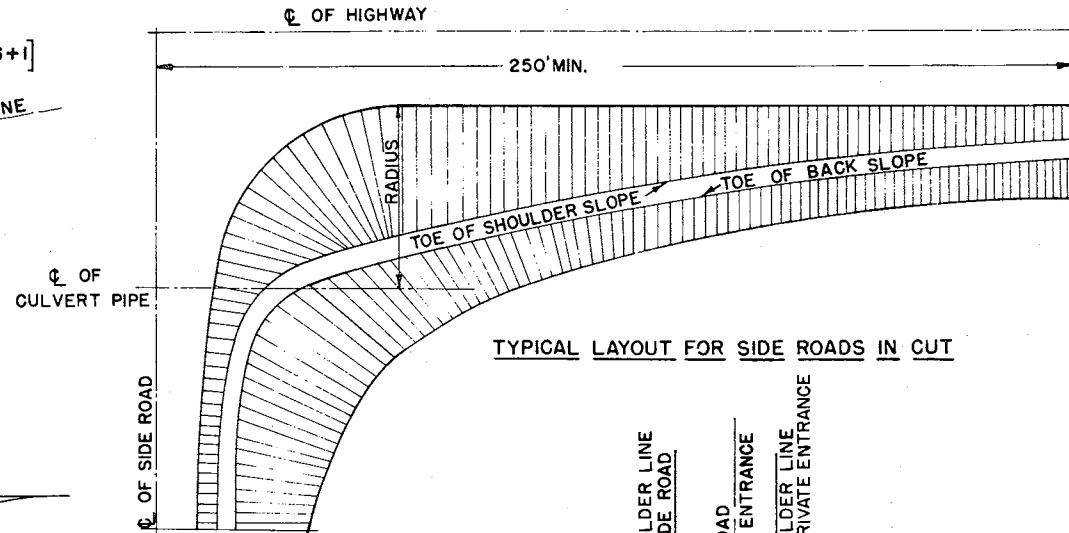
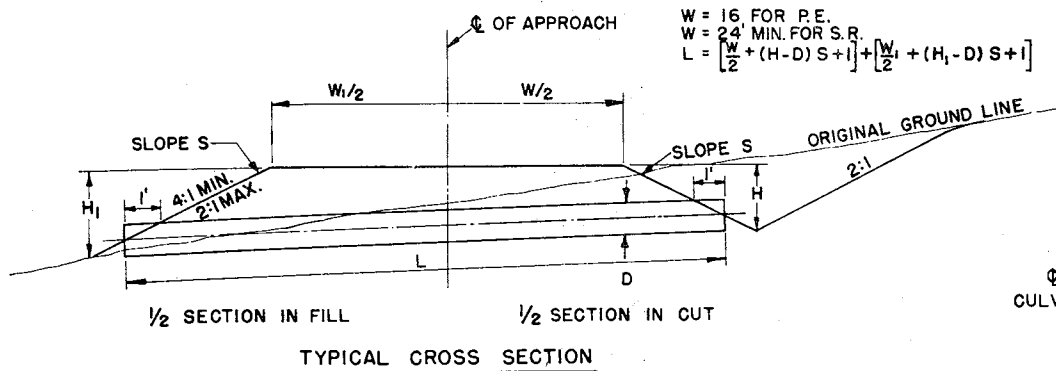
RECOMMENDED FOR APPROVAL:  
DATE **4-17-57** *J. S. Pitt*  
ENGINEER

APPROVED:  
DATE **4/17/57** *E. L. Kratzen*  
STATE HIGHWAY ENGINEER

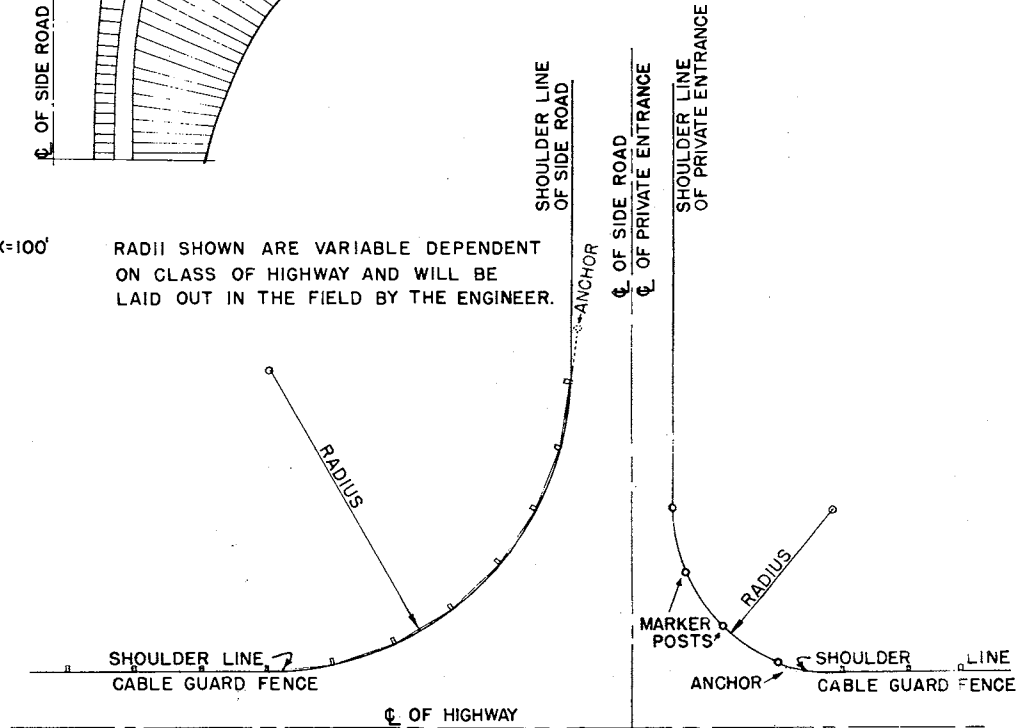
DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
DISTRICT ENGINEER

S1165(2)



RADII SHOWN ARE VARIABLE DEPENDENT ON CLASS OF HIGHWAY AND WILL BE LAID OUT IN THE FIELD BY THE ENGINEER.



**DETAILS OF PRIVATE ENTRANCE AND SIDE ROAD APPROACHES**

STATE HIGHWAY COMMISSION OF WISC.

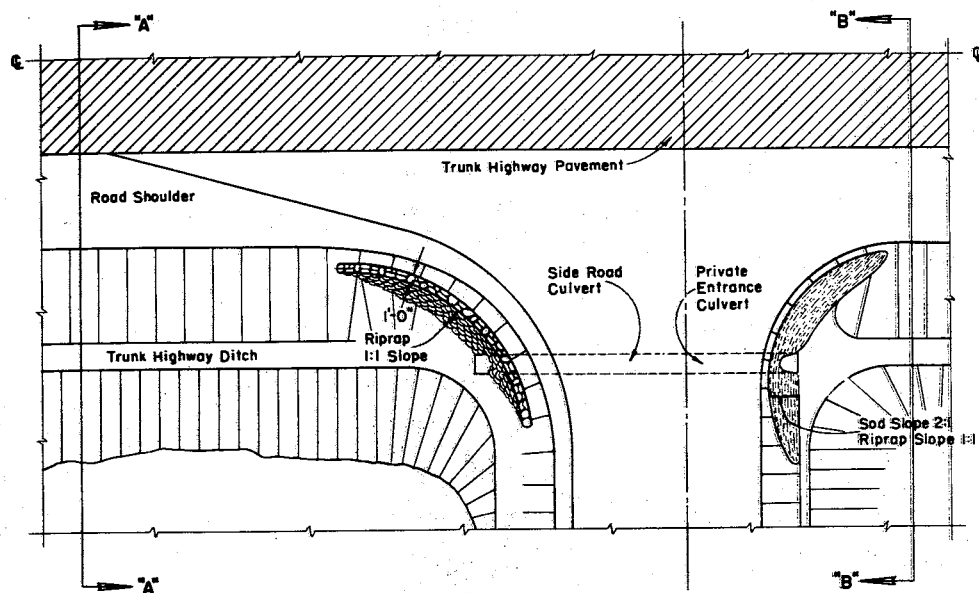
RECOMMENDED FOR APPROVAL:

*Frank Crav*  
 DESIGN ENGINEER

*W. Bluh*  
 CONSTRUCTION ENGINEER

DATE  
 APPROVED-- OCT. 1, 1945

DRAWN  
 CHECKED  
 DATE  
 STATE HIGHWAY ENGINEER

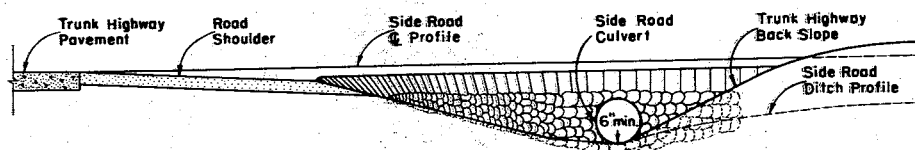


**PLAN VIEW  
HALF SECTION SHOWING  
RIPRAP PLACED AT  
SIDE ROAD CULVERT**

**PLAN VIEW  
HALF SECTION SHOWING  
SOD OR RIPRAP PLACED AT  
PRIVATE ENTRANCE CULVERT**

**TABLE OF QUANTITIES**

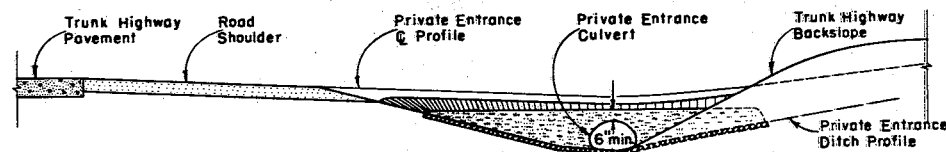
SIDE ROAD CULVERTS		PRIVATE ENTRANCE CULVERTS		
Size of Culvert Pipe	Cu. Yds. Riprap One End	Size of Culvert Pipe	Cu. Yds. Riprap One End	Sq. Yds. Sod One End
—	—	18"	0.7	4
24"	1.0	24"	1.0	5
30"	1.3	30"	1.3	6
36"	2.0	36"	2.0	7
42"	2.7	42"	2.7	8
48"	3.6	48"	3.6	10



**ELEVATION VIEW SECTION "A-A"  
SHOWING RIPRAP PLACED AT SIDE ROAD CULVERT**

**GENERAL NOTES**

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications, Section 2512 for Riprap, and Section 2533 for Sodding, and the applicable Special Provisions.



**ELEVATION VIEW SECTION "B-B"  
SHOWING SOD OR RIPRAP PLACED AT PRIVATE ENTRANCE CULVERT**

**BID ITEMS**

No. 2512 - 1 Riprap \_\_\_\_\_ Cu. Yds.  
No. 2533 - 1 Sodding \_\_\_\_\_ Sq. Yds.

**RIPRAP AT SIDE ROAD CULVERTS  
& RIPRAP OR SOD AT PRIVATE  
ENTRANCE CULVERTS**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

4/15/58  
DATE

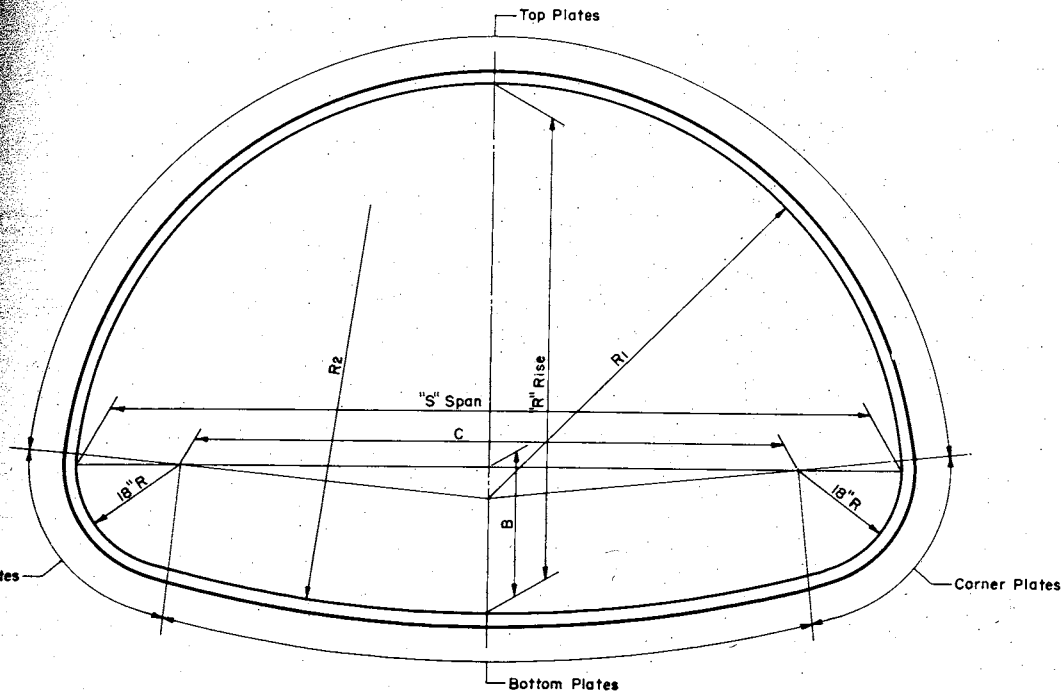
*J. L. Pelt*  
ENGINEER OF DESIGN

APPROVED:

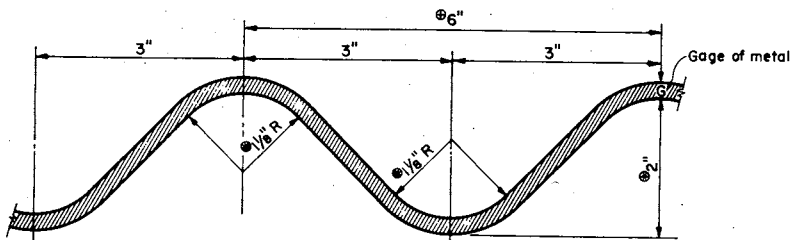
4/15/58  
DATE

*E. L. Rothman*  
STATE HIGHWAY ENGINEER

PLATE NO. 6-2.5.1.



**SECTIONAL PLATE PIPE ARCH**



**DETAIL OF METAL CORRUGATIONS**

**CORRUGATION DIMENSION TOLERANCES**

- ⊕ - Tol. 1/4"
- ⊕ - Tol. ± 1/8"
- ⊖ - Min. 1/16"

**TABLE OF PROPERTIES  
SECTIONAL PLATE PIPE ARCH**

SPAN Nominal Size	Dimensions taken from inside crests of corrugations							Table of Metal Gages - Minimum Acceptable																		
	Fabricators Size Min. Acceptable "S" Span - "R" Rise	R/S Ratio	Area Sq. Ft.	B In.	C In.	R1 In.	R2 In.	H-20 LOADING Depth of Embankment in Feet																		
								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
6 Feet	6'-1" x 4'-7"	.75	22	21.0	37.0	36.7	76.4	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
7 "	7'-0" x 5'-1"	.73	28	21.4	48.0	42.3	104.5	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	10	10
8 "	7'-11" x 5'-7"	.70	35	21.7	59.0	47.7	138.4	10	10	10	12	12	12	12	12	12	12	12	12	10	10	10	10	10	10	10
9 "	8'-10" x 6'-1"	.69	43	21.8	70.0	53.0	179.2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8
10 "	9'-9" x 6'-7"	.67	52	21.9	81.0	58.3	228.0	8	8	10	10	10	10	10	10	10	10	10	10	8	8	8	8	8	7	7
11 "	10'-11" x 7'-1"	.65	61	25.1	95.0	65.8	180.8	8	8	8	10	10	10	10	10	10	10	10	8	8	8	8	7	7	5	5
12 "	11'-10" x 7'-7"	.64	71	25.2	106.0	71.1	217.0	7	8	8	8	8	8	8	8	8	8	8	7	5	5	5	3	3	3	3
13 "	12'-10" x 8'-4"	.65	85	24.0	118.0	77.2	315.2	5	7	8	8	8	8	8	8	8	8	7	7	5	5	3	3	1	1	1
14 "	13'-11" x 8'-7"	.62	93	28.9	131.0	84.4	220.8	5	5	7	7	8	8	8	7	7	5	5	3	3	1	1	1	1	1	1
15 "	14'-10" x 9'-1"	.61	105	28.9	142.0	89.5	254.9	3	5	5	7	7	7	7	5	3	3	1	1	1	1	1	1	1	1	1
16 "	15'-10" x 9'-10"	.62	122	27.4	154.0	95.4	339.1	1	3	5	5	7	7	5	3	3	1	1	1	1	1	1	1	1	1	1
16.5 "	16'-7" x 10'-1"	.61	131	28.7	163.0	99.8	333.8	1	3	3	5	5	5	3	1	1	1	1	1	1	1	1	1	1	1	1

Note: For sizes of Sectional Plate Pipe Arch between those shown in the table, the gage shall be interpolated (based on table data) where possible; otherwise the gage of the next larger size shown in the table shall be used.

**GENERAL NOTES**

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications, Sections 2412 and 4116 and the applicable Special Provisions.

For Flexible Type Pavement, the minimum height of cover over top of Sectional Plate Pipe Arches (finished construction) shall be "S"/10 but not less than 1.0'.

For Rigid Type Pavement, the minimum shall be "S"/14 but not less than 6" cushion below pavement.

Adequate cover protection shall be provided at all times during construction operations to preclude any damage to structure.

The maximum height of embankment over top of Sectional Plate Pipe Arches shall be 15 feet.

Strutting of Sectional Plate Pipe Arches will not be required during construction unless specifically called for on the plans or the applicable Special Provisions.

**TOLERANCES**

Pipe Arch size dimensions are subject to manufacturing tolerances and the ratio of rise (R) to span (S) shall not exceed a tolerance of 5% plus or minus.

Metal corrugation dimension tolerances shall not exceed pertinent dimensions shown elsewhere on this drawing.

**NOMENCLATURE**

The term "Sectional Plate Pipe Arch" as shown and used on this drawing shall be construed to be synonymous to the term "Structural Plate Pipe Arch" as shown and used in the A.A.S.H.O. current Standard Specifications for Highway Bridges.

**BID ITEM**

No. 2412-31a Sectional Plate Pipe Arch (Size) \_\_\_\_\_

**SECTIONAL PLATE  
PIPE ARCH**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

1/28/55  
DATE

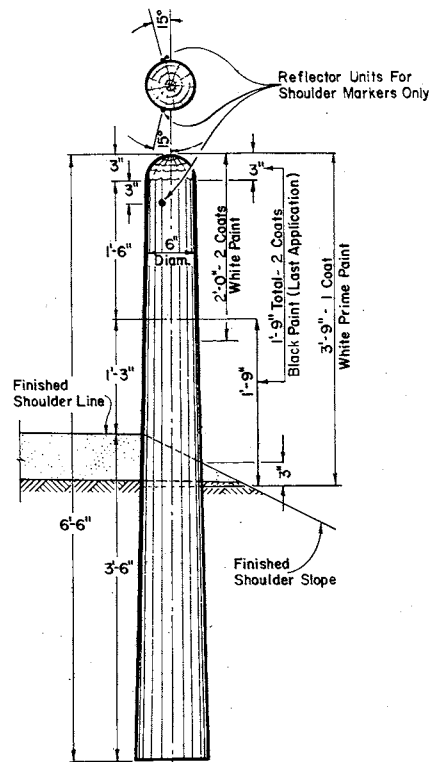
*J. A. Peltz*  
ENGINEER OF DESIGN

APPROVED:

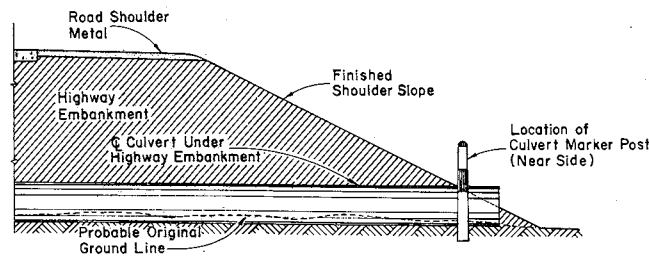
1/29/55  
DATE

*E. L. Rostig*  
STATE HIGHWAY ENGINEER

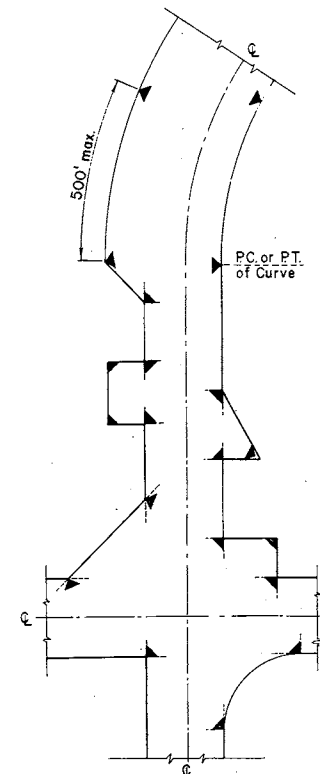
PLATE NO. 6-5.2.3



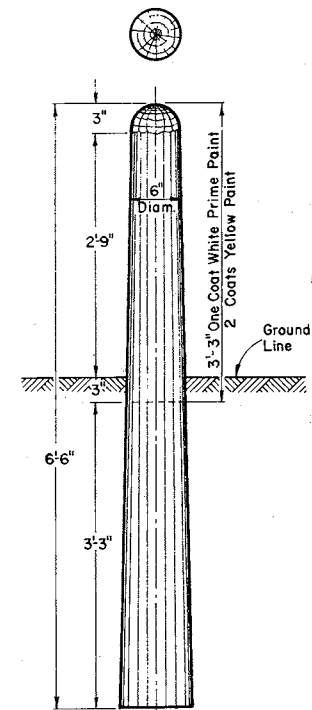
**MARKER POST FOR ROAD SHOULDERS AND CULVERTS**



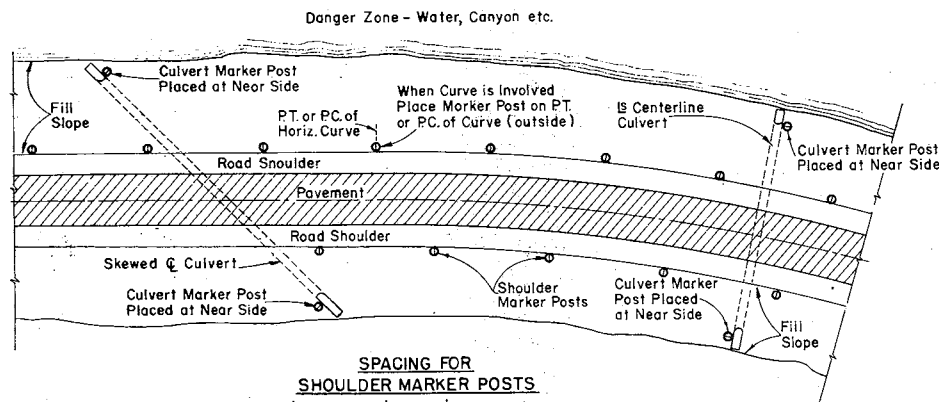
**SECTION SHOWING RELATIVE LOCATION OF MARKER POST FOR CULVERTS**



**LOCATION DIAGRAM SHOWING TYPICAL LOCATIONS OF MARKER POSTS FOR RIGHT OF WAY**



**MARKER POST FOR RIGHT OF WAY**



**SPACING FOR SHOULDER MARKER POSTS**  
50' C.C. for 100' to 500' Danger Zones  
100' C.C. for Over 500' Danger Zones

**LOCATION DIAGRAM SHOWING RELATIVE LOCATIONS OF SHOULDER MARKER POSTS AND CULVERT MARKER POSTS**

**MARKER POSTS FOR ROAD SHOULDERS AND CULVERTS**

**MARKER POST FOR RIGHT OF WAY**

**GENERAL NOTES:**

Details of Construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications Sections 2523, 4124 and 4125 and the applicable Special Provisions.

All posts for Road Shoulder Markers, Culvert Markers and Right of Way Markers are identical except for Painting and Reflector Units. All Posts shall be round and untreated and shall be either Northern White Cedar, Southern Yellow Pine, Norway Pine, White Pine or Jack Pine.

**MARKER POSTS FOR RIGHT OF WAY**

Right of Way Marker Posts shall be erected in advance of Grading Operations. Posts may be shaped and painted prior to erection. Any damaged areas occurring to paint surface during erection or other subsequent operations must be repainted prior to acceptance.

Posts shall be placed of the outer limits of the Highway Right of Way, but entirely within the Right of Way and shall be so placed that the outer edge of the posts shall be tangent to the Right of Way line or lines extended. The exact location of all Right of Way Posts shall be staked in the field by the Engineer.

Reflector Units for Right of Way Marker Posts will not be required.

**REFLECTOR UNITS**

Reflector Units shall have plastic crystal lens 7/8" in diameter. Unit assembly shall be a minimum of 7/8" in length. Reflector Units shall be furnished with flared expanding metal clips for wood mounting. Units shall be mounted in tightest fit possible and securely stowed in posts. Reflector Units shall be installed in Road Shoulder Marker Posts only.

**ITEMS**

No. 2523-3 Marker Posts for Right of Way ..... Each  
No. 2523-4 Marker Posts for Right of Way ..... Each

**MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

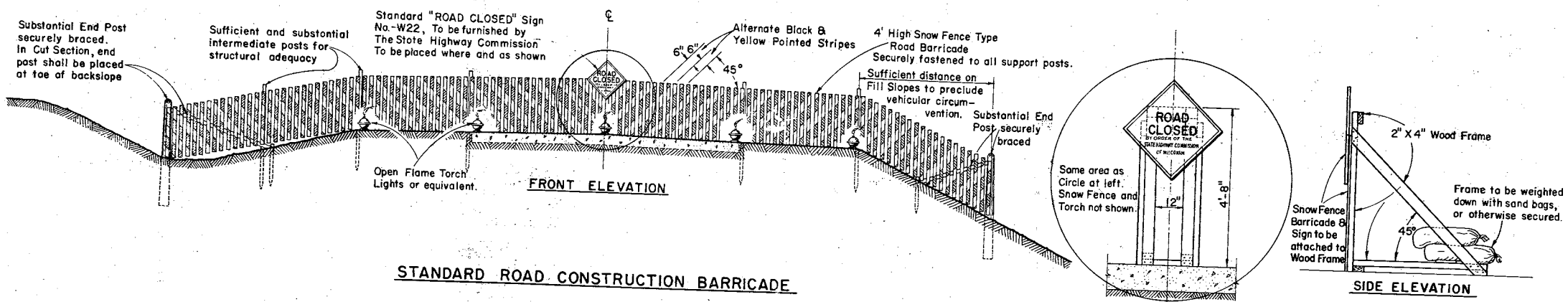
4/6/54  
DATE

APPROVED:

11/27/54  
DATE

*J. P. Kelly*  
ENGINEER OF DESIGN

*E. L. Reddick*  
STATE HIGHWAY ENGINEER



**STANDARD ROAD CONSTRUCTION BARRICADE**  
**SNOW FENCE TYPE-"A"**

**WOOD FRAME SUPPORT AT C FOR SNOWFENCE TYPE BARRICADE**  
**When Barricade is Erected on Rigid Type Surfacing**

**GENERAL NOTES**

The Contractor shall construct, place and maintain barricades as shown on this drawing and as required by the Standard Specifications Section 1107 for the duration of the project. Barricades shall be painted and structurally maintained for maximum visibility at all times.  
 Provision shall be made in the construction of barricades to provide for ingress and egress for local access as may be required.

**ALTERNATE DESIGNS**

Contractors may submit to the Engineer for approval, designs for Barricades other than shown on this drawing, and upon the Engineer's approval may be used as alternates.

**MEASUREMENT & PAYMENT**

All Barricades, unless otherwise provided for in the Plans and/or Special Provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.

<b>CONSTRUCTION BARRICADE</b>	
<b>STATE HIGHWAY COMMISSION OF WISCONSIN</b>	
RECOMMENDED FOR APPROVAL:	
DATE <i>6/2/55</i>	ENGINEER OF DESIGN <i>J. S. Pelt</i>
APPROVED:	
DATE <i>6/2/55</i>	STATE HIGHWAY ENGINEER <i>E. C. Rustigen</i>

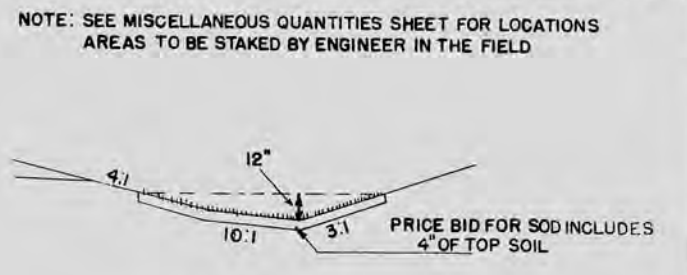
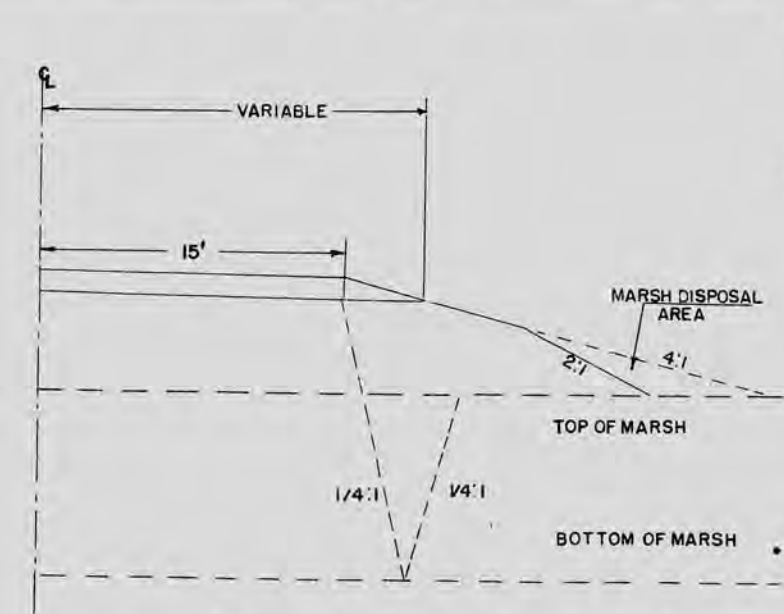
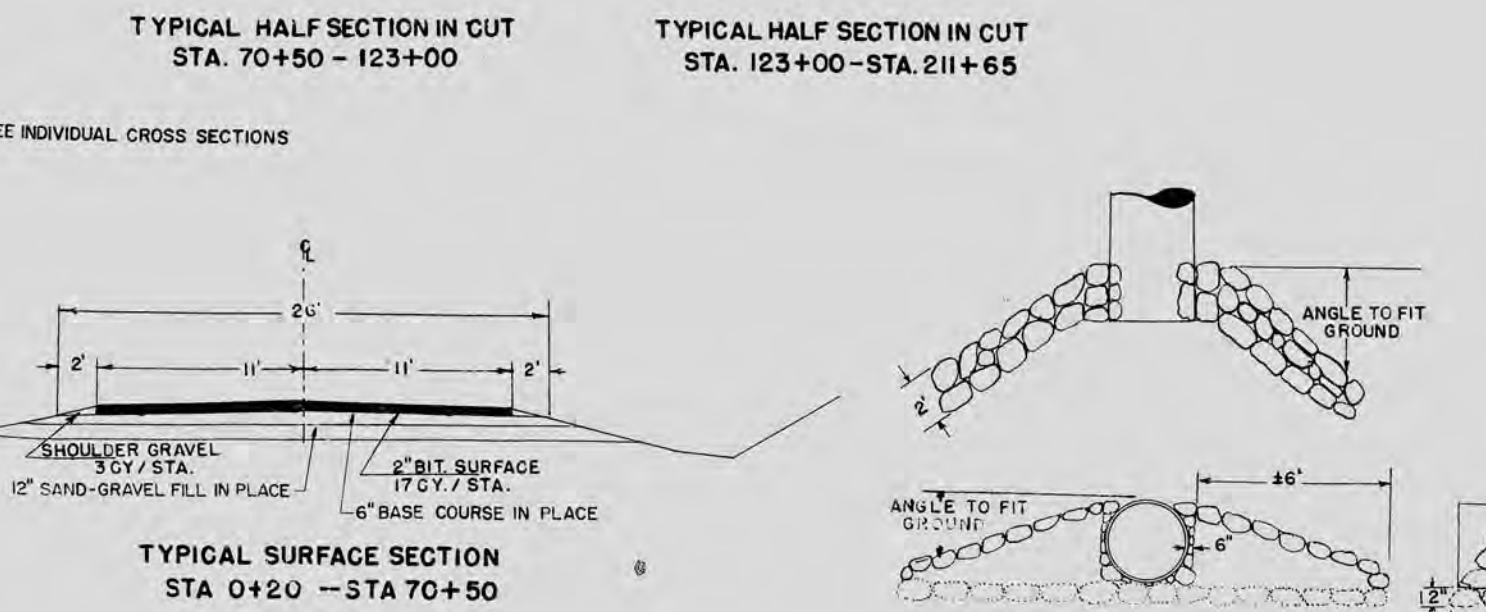
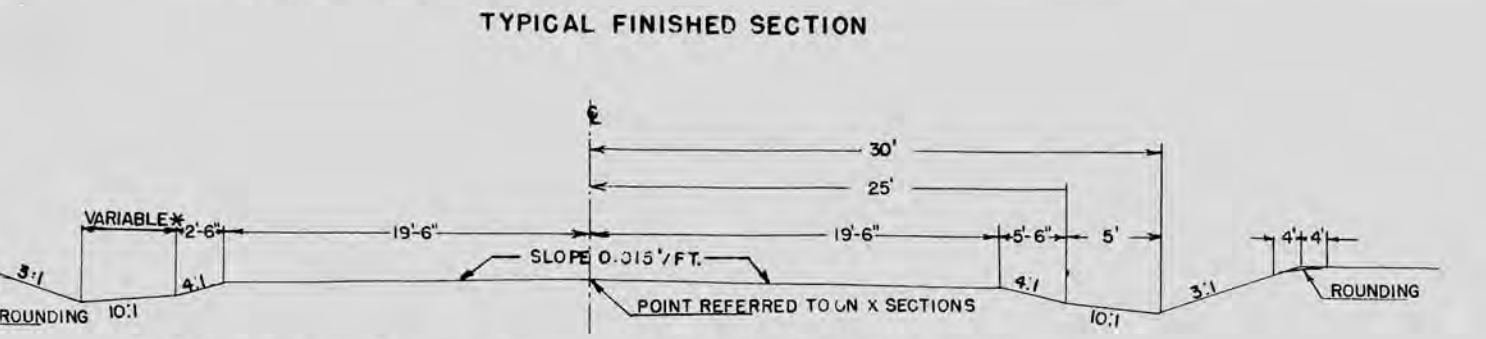
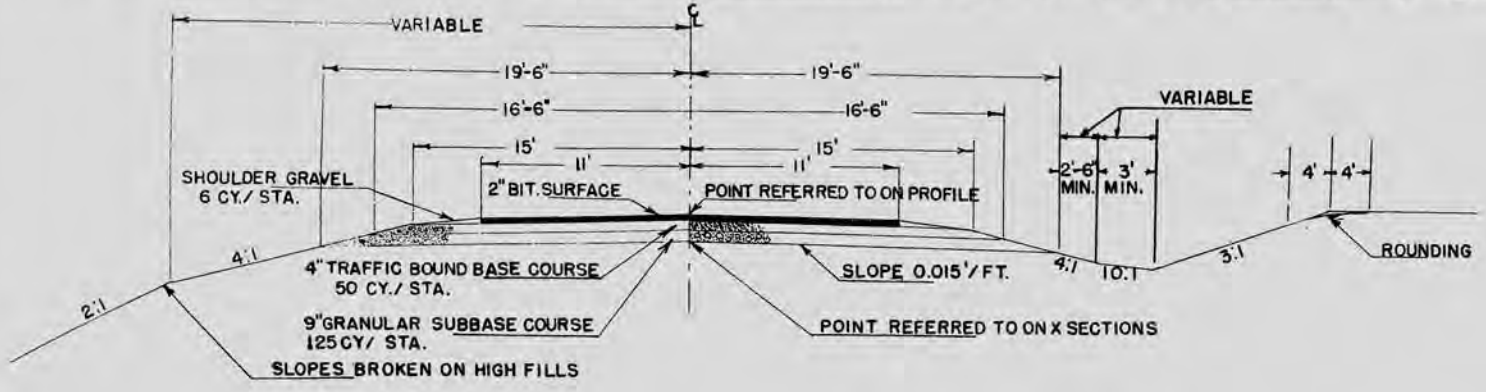
# ESTIMATE OF QUANTITIES

CONTRACT NO. 1

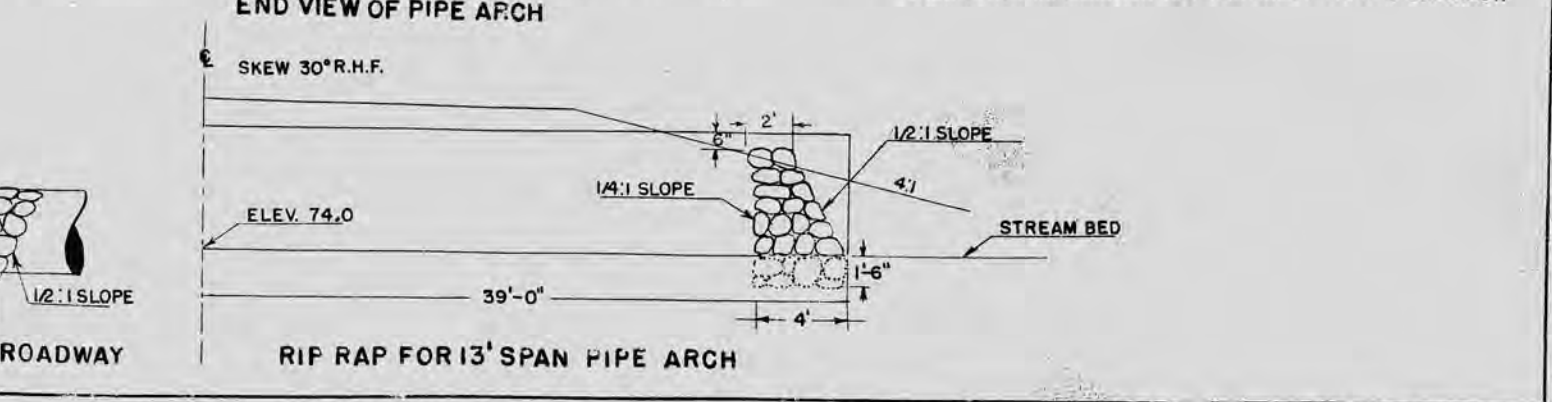
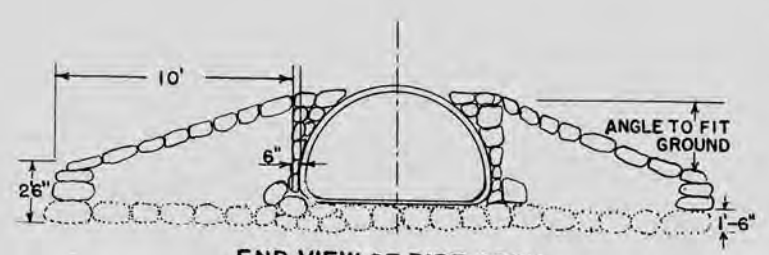
S 1165 (2) 2 46

TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN - EDITION OF 1957, SUBMITTED FOR APPROVAL MARCH 28, 1957  
 REQUIRED CONTRACT PROVISIONS, APPROVED JAN. 31, 1955 AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	CLEARING	GRUBBING	GRUBBING	REMOVING OLD CULVERT STA. 158+84	STONE PILES & STONE FENCES	EXCAVATION				FINISHING ROADWAY	CULVERT PIPE						STRUCTURAL PLATE PIPE ARCH 13 FT. SPAN	SODDING	TOPSOIL									
								MARSH	UNCLAS.	BORROW	18 INCH		24 INCH	36 INCH	SALVAGED CONCRETE CULVERT PIPE 60 INCH	RIP-RAP	GRANULAR SUB-BASE COURSE	TRAFFIC BOUND BASE COURSE			MARKER POSTS	MARKER POSTS FOR R/W	BITUMINOUS ROAD MIX SURFACE	AGGREGATE FOR BIT. ROAD MIX SURFACE	BITUMINOUS MATERIAL FOR SUR. COURSE	SALVAGED	FERTILIZER	SEEDING		
ITEM NO.	UNIT	2101-1	2101-3	2101-4	2101-6	2104-1	2106-3	2106-4	2106-5	2109-1	2114-1	2411-1	2411-2	2411-3	2411-76	2512-1	2201-1	2204-1	2523-5	2523	2313-1	2313-2	2313-3	2412-21	2513-1					
	LIN. FT.	STA.	ACRE	STA.	ACRE	L. S.	C.Y.	C.Y.	C.Y.	C.Y.	L. S.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	C.Y.	C.Y.	C.Y.	EACH	EACH	S. Y.	C. Y.	GAL.	LIN. FT.	S. Y.					
70+20 - 70+50	7,030																													
70+50 - 211+65	14,115	23	2.4	24	3.0	1	1,050	12,000	68,000	24,500	1	386	364	104	144	63	18,000	8,400	10											
<b>TOTAL</b>	<b>21,145</b>	<b>23</b>	<b>2.4</b>	<b>24</b>	<b>3.0</b>	<b>1</b>	<b>1,050</b>	<b>12,000</b>	<b>68,000</b>	<b>24,500</b>	<b>1</b>	<b>386</b>	<b>364</b>	<b>104</b>	<b>144</b>	<b>63</b>	<b>18,000</b>	<b>8,400</b>	<b>10</b>											



- APPLICABLE STANDARD DETAIL DRAWINGS**
- |  |         |
|--|---------|
| PRIVATE ENTRANCES & SIDE ROAD APPROACHES                                 | 1-2.1.1 |
| RIPRAP AT SIDEROAD CULVERTS & RIPRAP OR SOD AT PRIVATE ENTRANCE CULVERTS | 6-2.5.1 |
| STRUCTURAL PLATE PIPE ARCH   | 6-5.2.3 |
| MARKER POSTS & MARKER POSTS FOR R.O.W.                                   | 7-1.3.2 |
| CONSTRUCTION BARRICADE   | 7-4.1.2 |



NOTE: SHEETS 3-5 ARE INCLUDED TO SHOW PROFILE & ALIGNMENT ONLY. OTHER INFORMATION NOT PERTINENT TO THIS CONTRACT.

# DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

**CLEARING & GRUBBING:**

STA.	STA.	CLEARING ACRES	GRUBBING ACRES	STA.
71+00	89+00	1.3	0	0
89+00	94+00		1	1
94+00	95+00		0	0
95+00	96+00		0	0
96+00	97+00		2	2
97+00	99+00		0	0
99+00	101+00		3	3
101+00	104+00		0	0
104+00	105+00		1	1
105+00	106+00	0.5	4	4
106+00	120+00		0	0
120+00	124+00		3	3
124+00	126+00		0	0
126+00	129+00	0.6	0	0
129+00	136+50		2	2
136+50	153+00		0	0
153+00	155+00		2	2
155+00	156+00		0	0
156+00	158+00		2	2
158+00	165+00		0	0
165+00	168+00		3	3
168+00	177+00		0	0
177+00	178+00		1	1
178+00	196+00		0	0
196+00	197+00		1	1
197+00	211+65		0	0
<b>TOTAL</b>		<b>2.4</b>	<b>23</b>	<b>24</b>

**SODDING:**

STA.	STA.	SIDE	LENGTH	WIDTH	S.Y.
83+00	83+65	Rt.	60'	12	80
85+75	89+55	Lt.	380	9	380
87+20	89+56	Rt.	236	9	236
104+00	104+50	Rt.	50	9	50
133+50	134+00	Lt.	50	9	50
134+00	134+50	Lt.	50	9	50
151+80	152+50	Lt.	70	12	93
153+00	154+00	Rt.	100	9	100
155+00	156+00	Lt.	100	18	200
171+00	172+00	Rt.	100	12	133
Culvert End Walls					128
<b>TOTAL</b>					<b>1500</b>

**GRANULAR SUBBASE COURSE:**

Sta. - Sta.	Cu. Yds.
70+50 - 211+65	17,650
2 Town Roads	230
18 Private Entrances	120
<b>TOTAL</b>	<b>18,000</b>

**TRAFFIC BOUND BASE COURSE:**

Sta. - Sta.	Cu. Yds.
70+50 - 211+65	7,060
2 Town Roads	150
18 Private Entrances	190
Shoulders	1,000
<b>TOTAL</b>	<b>8,400</b>

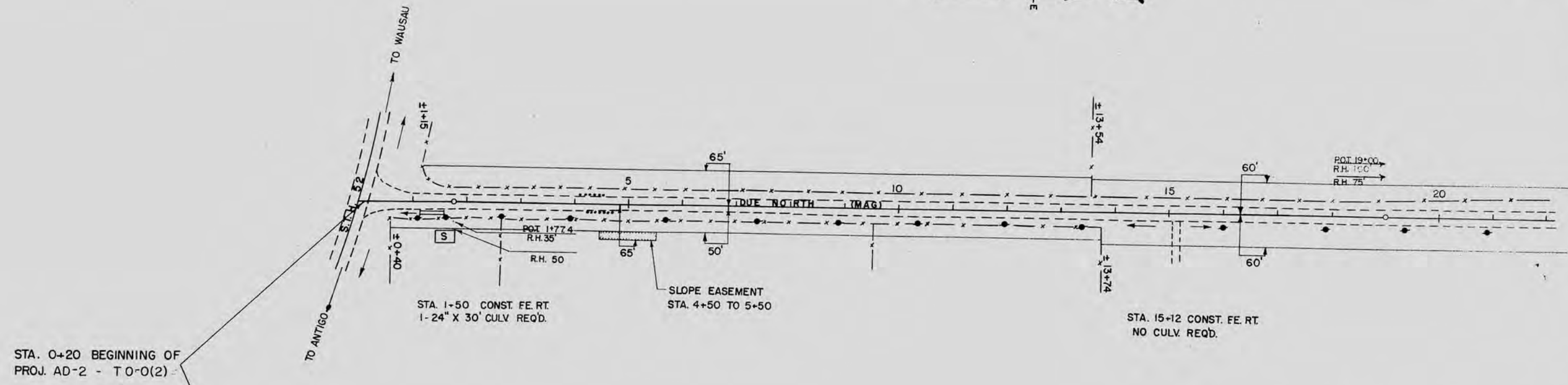
**CULVERT PIPE:**

STATION	APP.	LT.	RT.	18"	24"	36"	60"	Str. Plate	SALV. RCCP	S.Y. Sod	RIPRAP	MARKER POSTS
81+00	PE	X		28						8		
84+00	X										6	2
86+00	PE	X		30		104				8		
106+00	TR	X		50		96				8	4	2
108+00	PE	X		28		68				8	4	2
117+45	PE	X		28						8		
123+62	PE	X		28						8		
139+15	PE	X		28						8		
152+10	PE	X		28						8		
153+75	PE	X		30		78				8	30	2
156+00	TR	X				60				8	12	
158+80	TR	X				30			144	8	3	
164+25	PE	X		28						8		
178+40	PE	X		28						8		
190+00	PE	X		28						8		
195+00	PE	X		28						8		
195+40	PE	X		28						8		
210+50	Undistributed	X		84		50				24	4	2
<b>TOTAL</b>				<b>386</b>	<b>364</b>	<b>104</b>	<b>78</b>	<b>144</b>	<b>128</b>	<b>128</b>	<b>63</b>	<b>10</b>

**UNCLASSIFIED EXCAVATION:**

X-Sections	67,085
Channel Change	300
Undistributed	615
<b>TOTAL</b>	<b>68,000</b>

PROJECT	SHEET NO.	TOTAL SHEETS
S 1165(2)	2A	46



STA. 0+20 BEGINNING OF PROJ. AD-2 - T O-O(2)

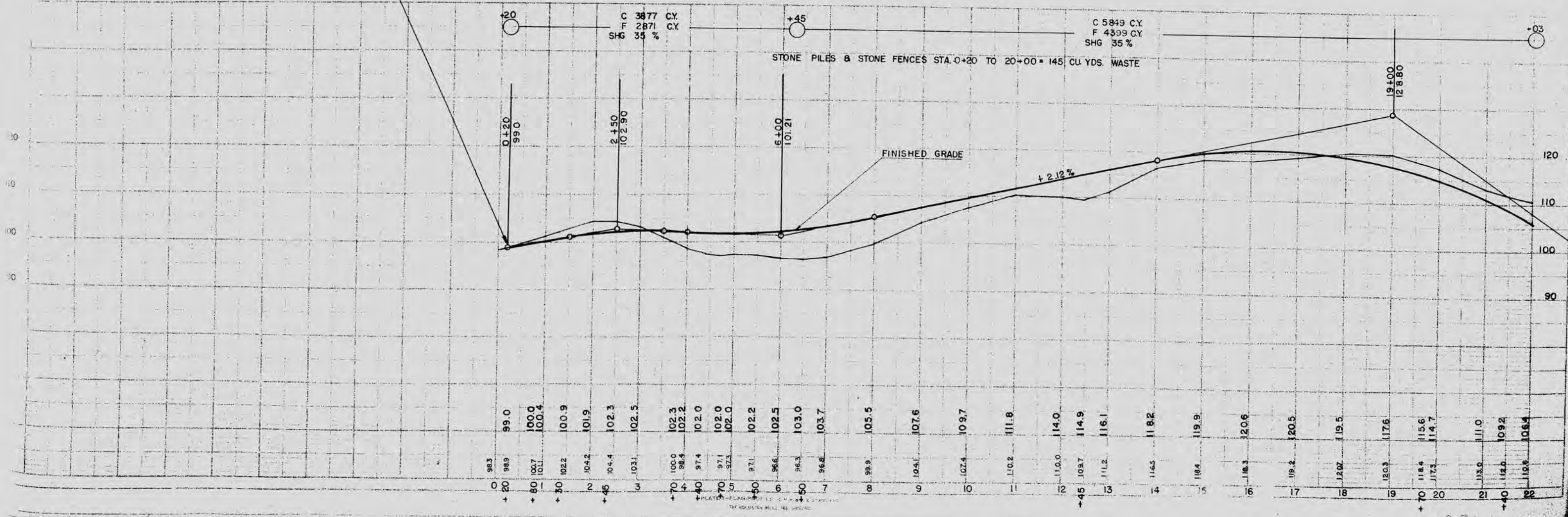
STA. 1+50 CONST. FE. RT. 1-24" X 30' CULV. REQ'D.

SLOPE EASEMENT STA. 4+50 TO 5+50

STA. 15+12 CONST. FE. RT. NO CULV. REQ'D.

BENCH MARKS			
NO	STA.	DESCRIPTION	ELEV.
1	0+50	SPIKE IN 15" MAPLE 95' RT.	100.00
2	16+00	SPIKE IN 13" IRONWOOD 75' RT.	116.47

NET LENGTH OF CENTERLINE STA. 0+20 TO 20+00 = 1980 LIN. FT.

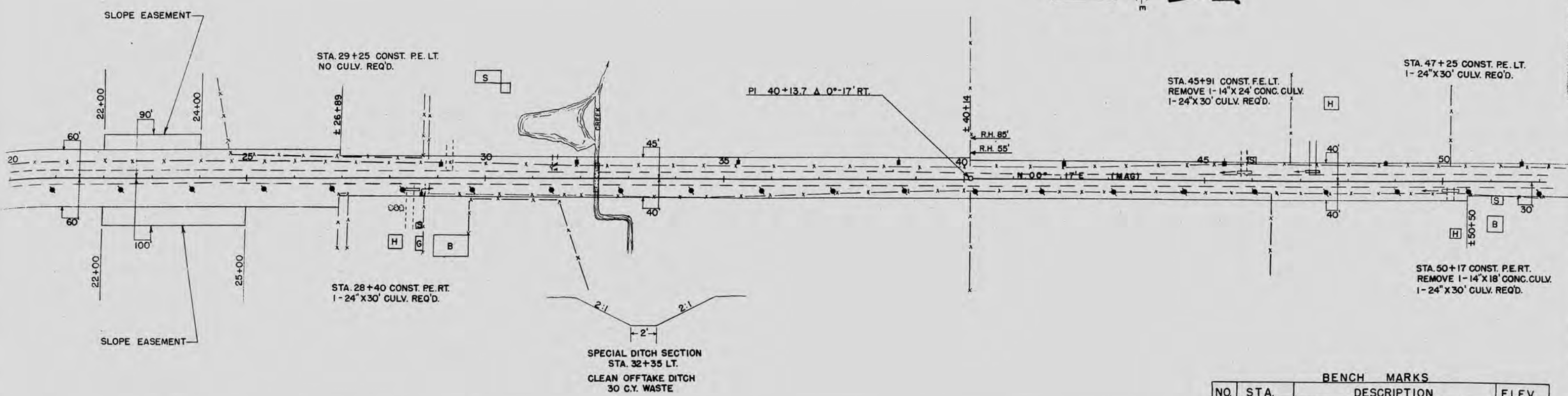


C 3877 C.Y.  
F 2871 C.Y.  
SHG 35%

C 5849 C.Y.  
F 4399 C.Y.  
SHG 35%

STONE PILES & STONE FENCES STA. 0+20 TO 20+00 = 145 CU YDS. WASTE

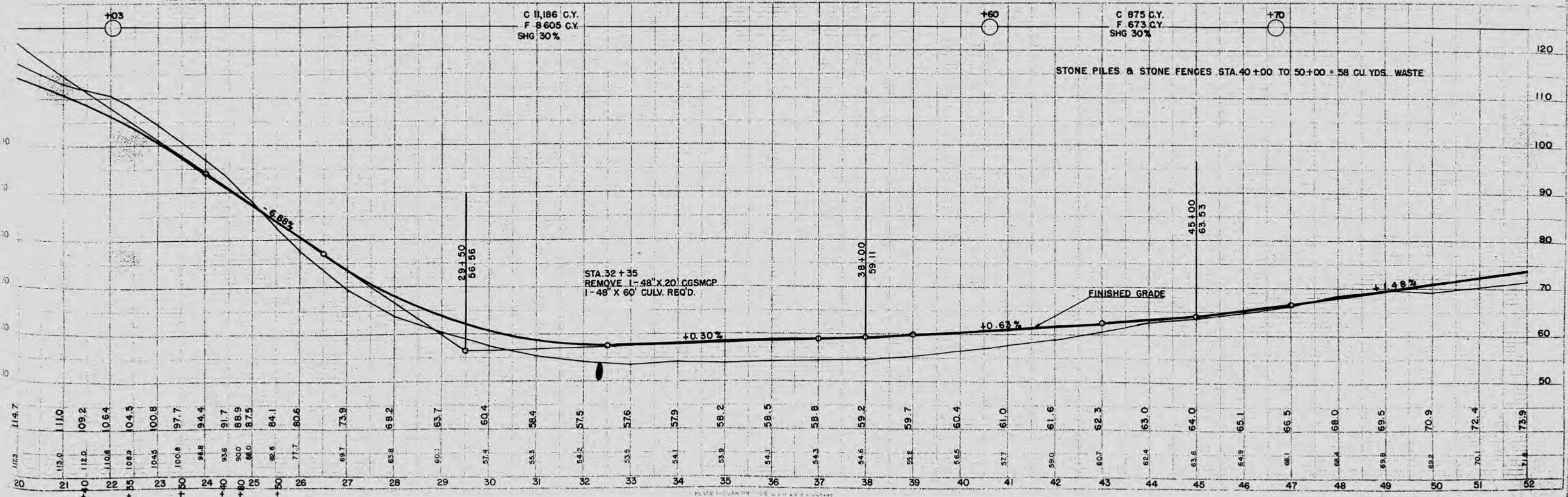
S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
SN	TO-0(2) (AD-2)	4	21

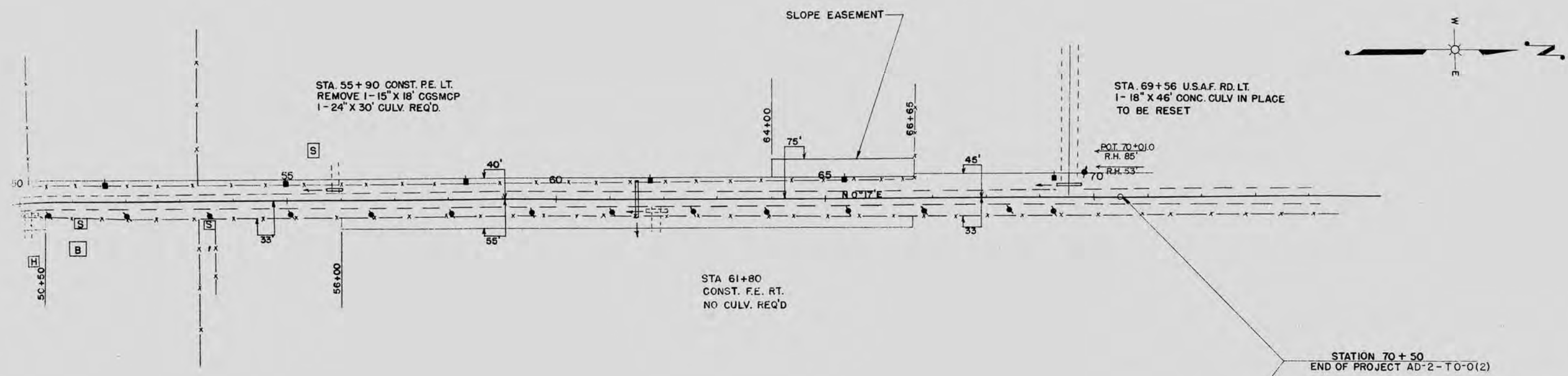


**BENCH MARKS**

NO.	STA.	DESCRIPTION	ELEV.
3	40+15	SPIKE IN 7" POPLAR 65' RT.	56.13

NET LENGTH OF CENTERLINE STA. 20+00 TO 50+00 = 3000 LIN. FT.





STATION 70+50  
END OF PROJECT AD-2-T-O-O(2)

BENCH MARKS			
NO	STA	DESCRIPTION	ELEV.
4	54+75	8" E.I.M. 77' LT.	78.41
5	69+23	RR SPIKE IN POWER POLE 45' LT.	121.28
6	69+80	15" TWIN MAPLE 52' RT.	112.24

NET LENGTH OF CENTERLINE STA. 50+00 TO 70+50 = 2050 LIN. FT.

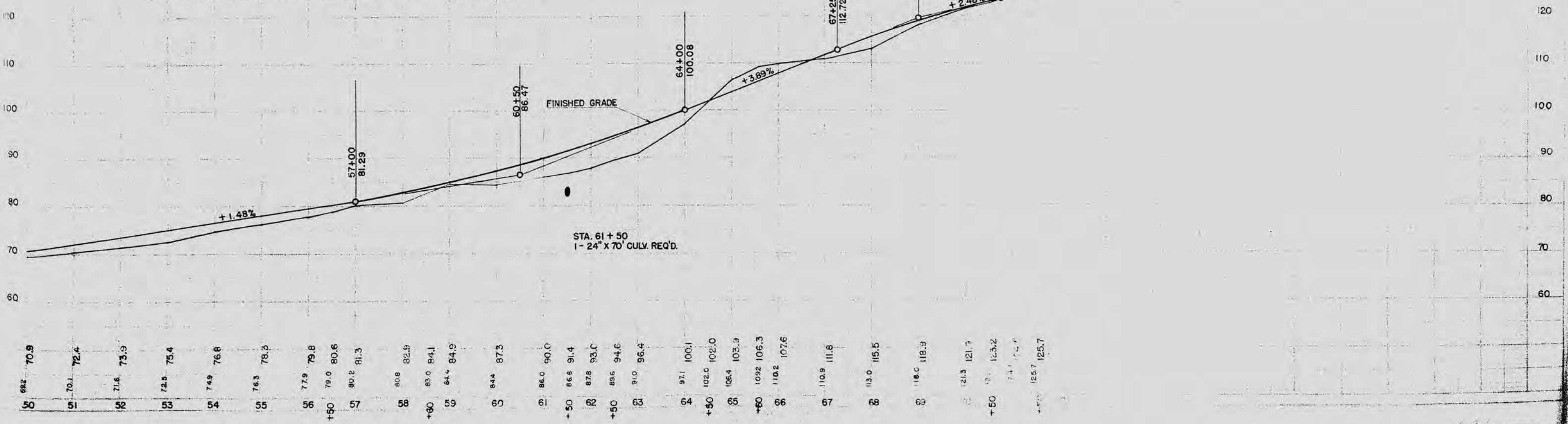
C 1917 C.Y.  
F 1466 C.Y.  
SHG 30%

+95

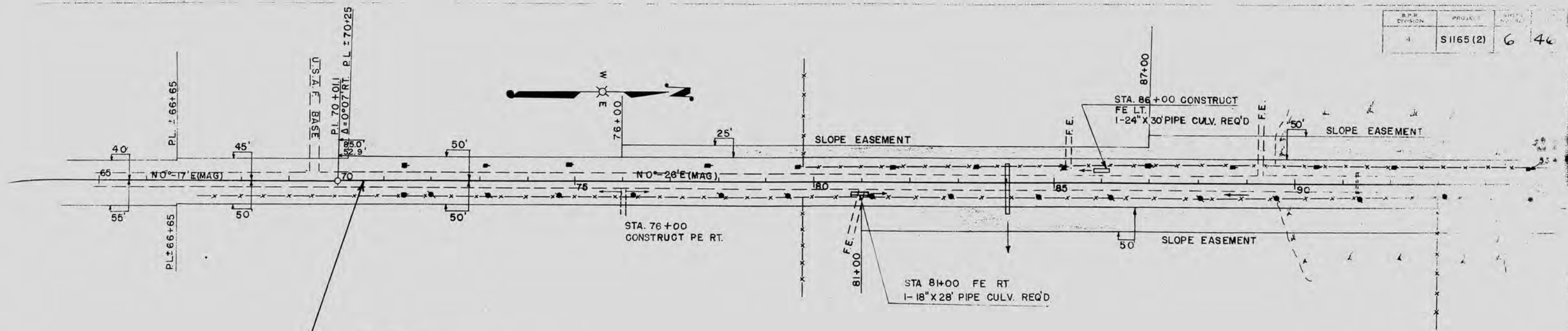
C 3464  
F 2650  
SHG 30%

+50

STONE PILES & STONE FENCES STA. 50+00 TO 70+00 = 250 CU. YDS. WASTE



50	68.2	70.9
51	70.1	72.4
52	71.6	73.9
53	72.5	75.4
54	74.9	76.8
55	76.3	78.3
56	77.9	79.8
+50	79.0	80.6
57	80.2	81.3
58	80.8	82.9
+80	83.0	84.1
59	84.4	84.9
60	84.4	87.3
61	86.0	90.0
+50	86.8	91.4
62	87.8	93.0
+50	89.6	94.6
63	91.0	96.4
64	97.1	100.1
+50	102.0	102.0
65	106.4	103.9
+60	109.2	106.3
66	110.2	107.6
67	110.9	111.8
68	113.0	115.5
69	116.0	118.9
+50	121.3	121.3
70	121.3	123.2
+50	124.1	124.1
+50	125.7	125.7

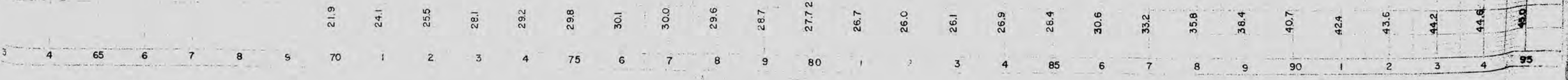
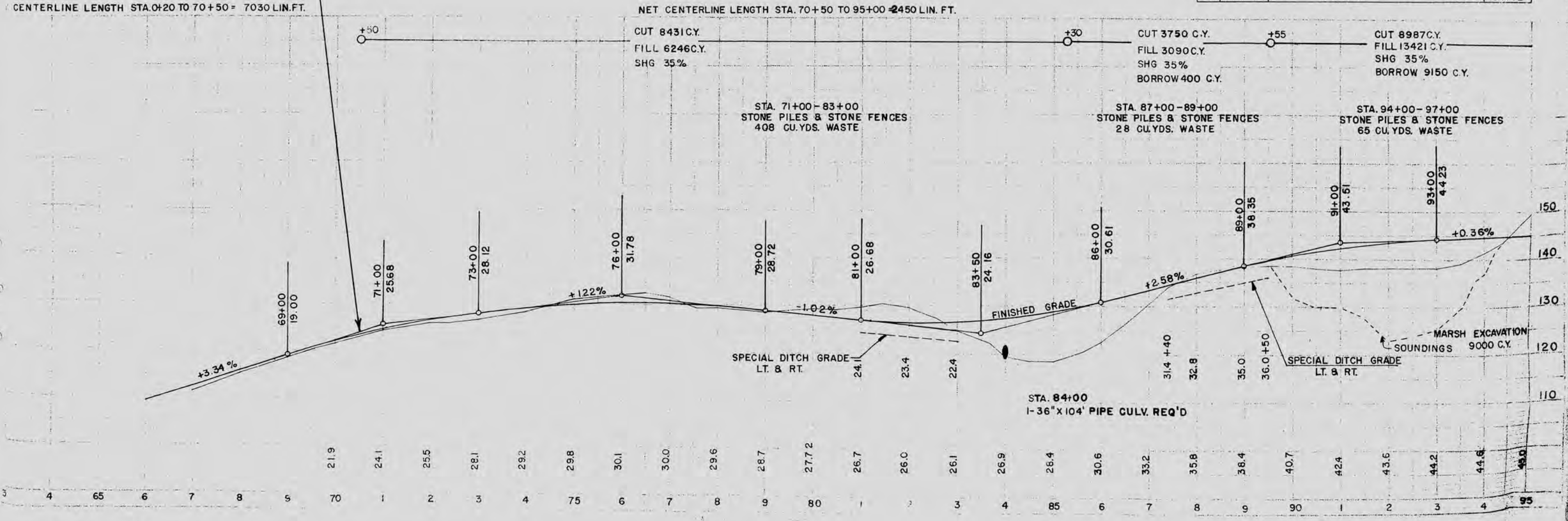


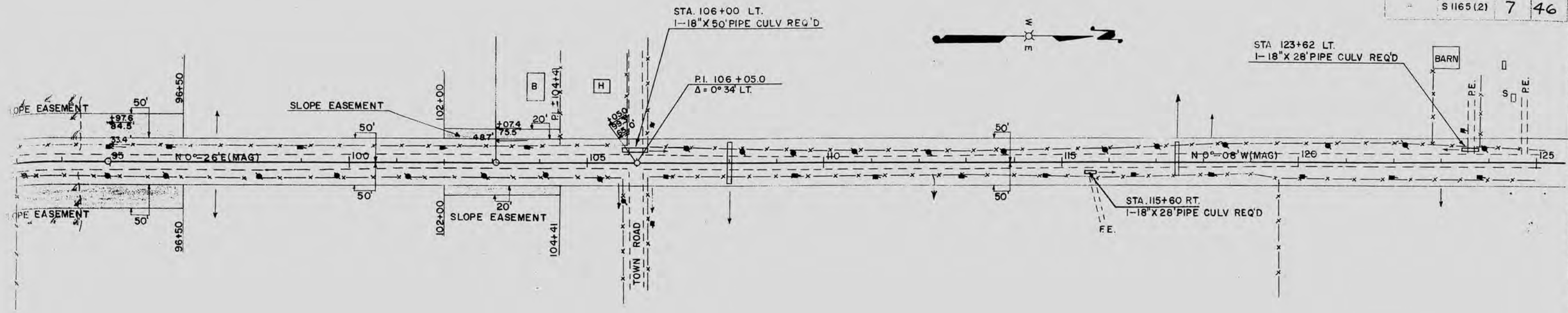
STA. 70+50  
BEGINNING OF GRADING,  
PROJECT S1165(2)

STA. 0+20 BEGINNING OF PROJ. S1165(2)  
BIT. SURFACING ONLY  
CENTERLINE LENGTH STA. 0+20 TO 70+50 = 7030 LIN. FT.

BENCH MARKS

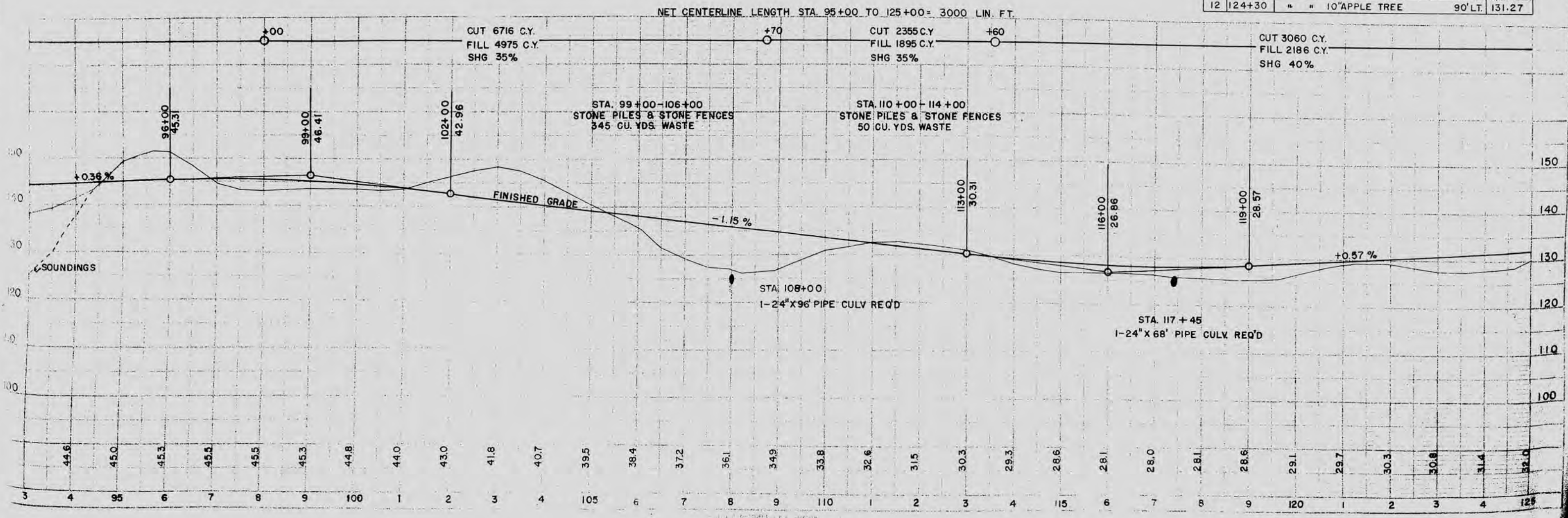
NO.	STATION	DESCRIPTION	ELEV.
6	69+80'	SPIKE IN 15" TWIN MAPLE	52' RT. 119.24
7	74+80'	" " 10" MAPLE	105' LT. 133.00
8	86+55'	" " 8" MAPLE	78' RT. 126.09
9	94+40'	" " 14" MAPLE	65' RT. 139.42

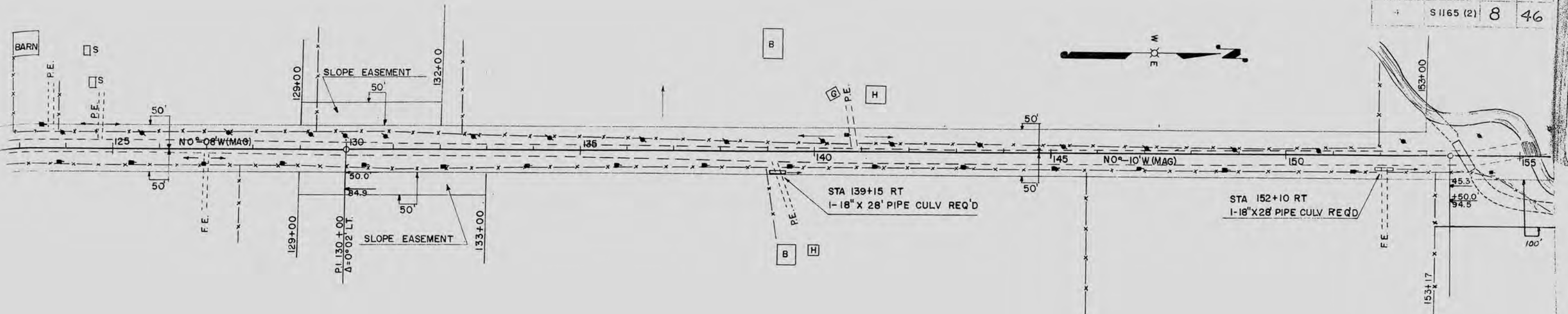




BENCH MARKS

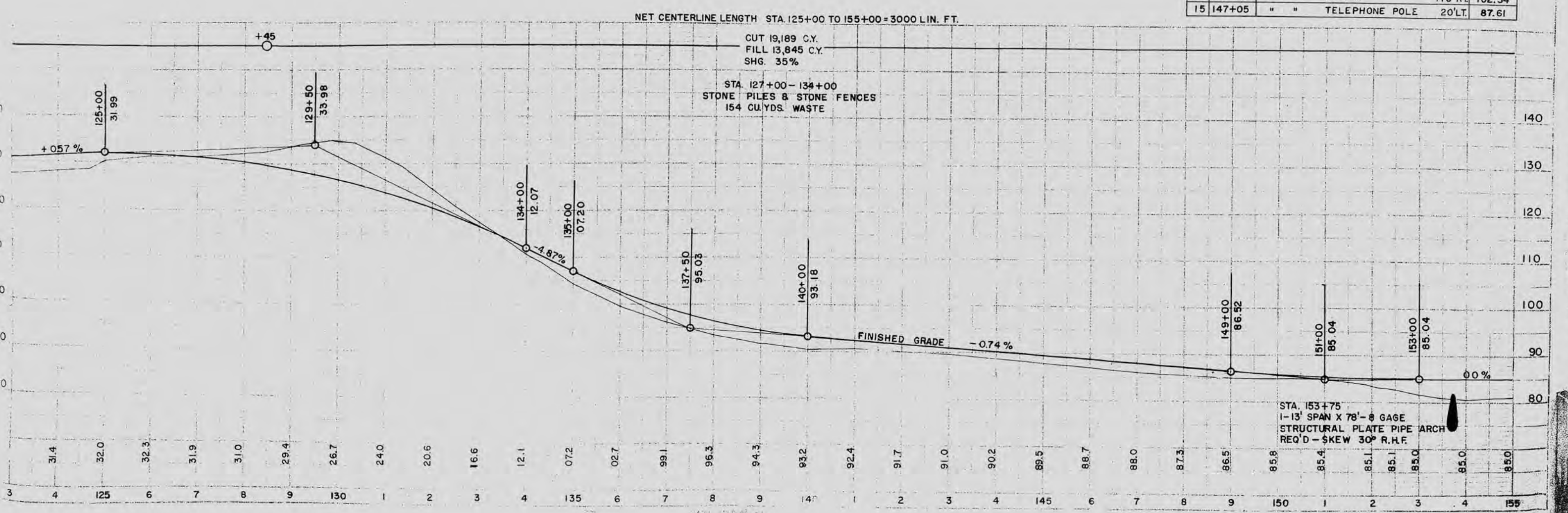
NO.	STATION	DESCRIPTION	ELEV.
10	105+70	SPIKE IN 14" OAK	100' RT. 133.23
11	115+15	" " 13" TWIN ELM	110' LT. 126.40
12	124+30	" " 10" APPLE TREE	90' LT. 131.27

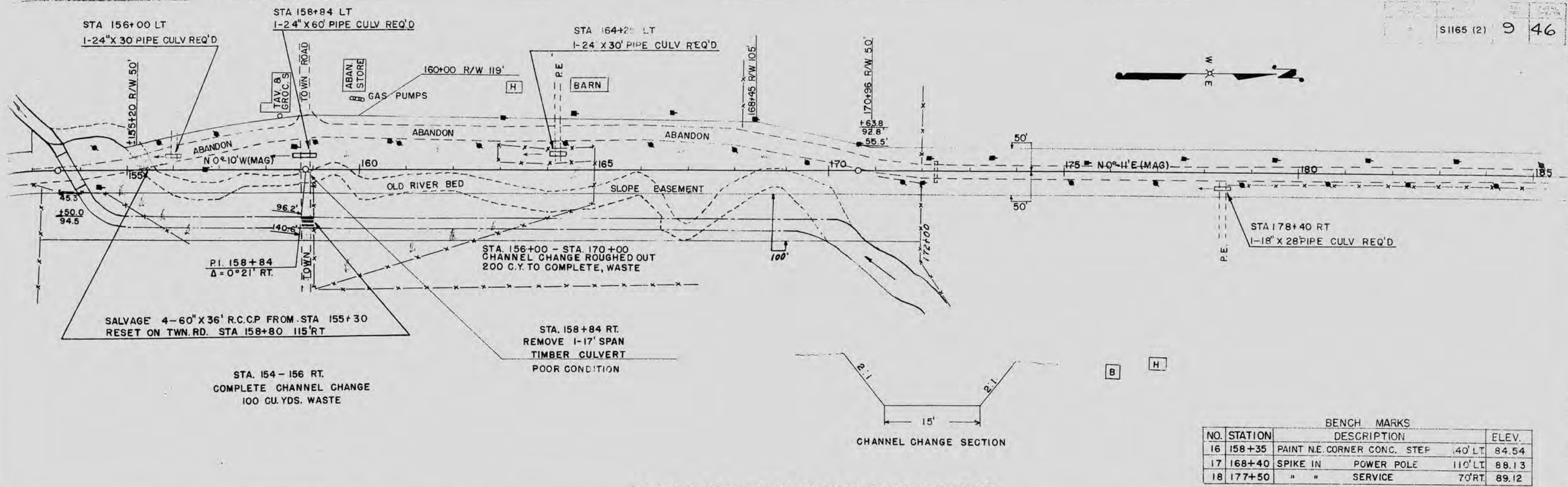




BENCH MARKS

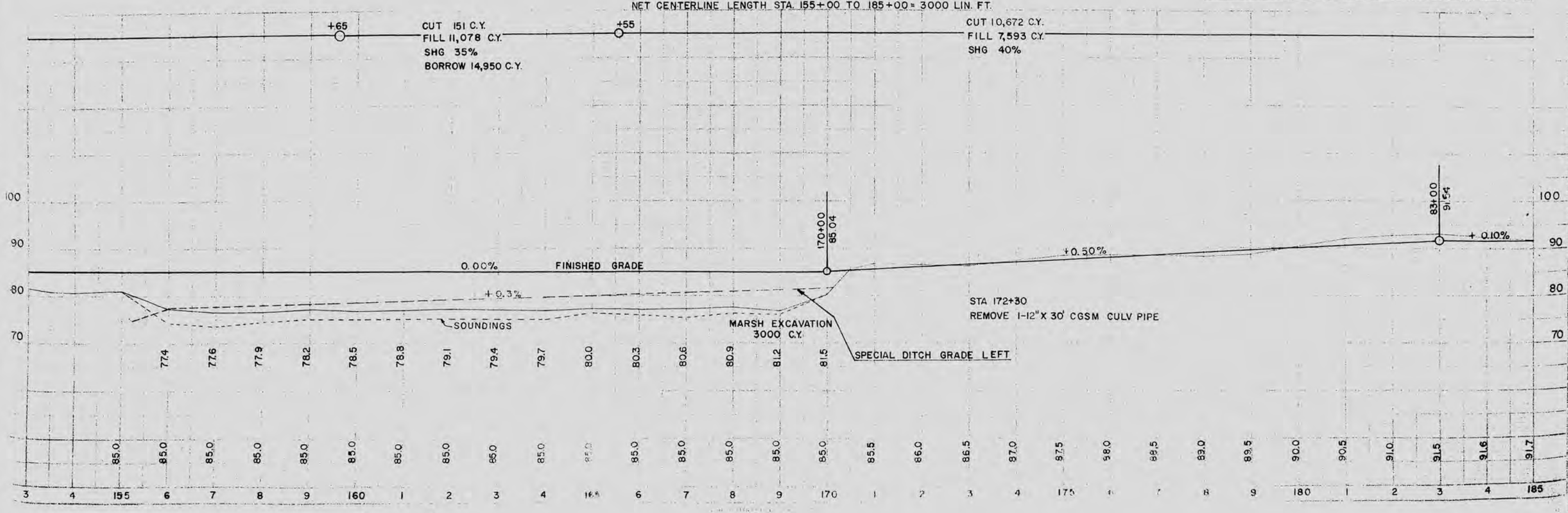
NO.	STATION	DESCRIPTION	ELEV.
13	129+55	SPIKE IN 16" ELM 75' RT.	137.57
14	136+80	" " 24" ELM 110' RT.	102.34
15	147+05	" " TELEPHONE POLE 20' LT.	87.61





CHANNEL CHANGE SECTION

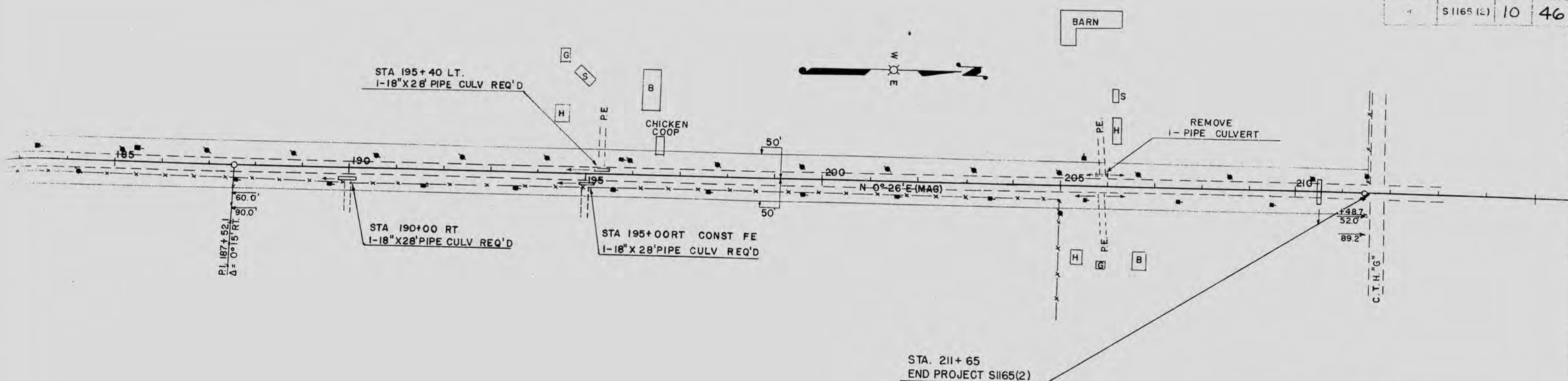
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
16	158+35	PAINT N.E. CORNER CONC. STEP	40' LT 84.54
17	168+40	SPIKE IN POWER POLE	110' LT 88.13
18	177+50	" " SERVICE	70' RT 89.12



NET CENTERLINE LENGTH STA. 155+00 TO 185+00 = 3000 LIN. FT.

CUT 151 C.Y.  
FILL 11,078 C.Y.  
SHG 35%  
BORROW 14,950 C.Y.

CUT 10,672 C.Y.  
FILL 7,593 C.Y.  
SHG 40%

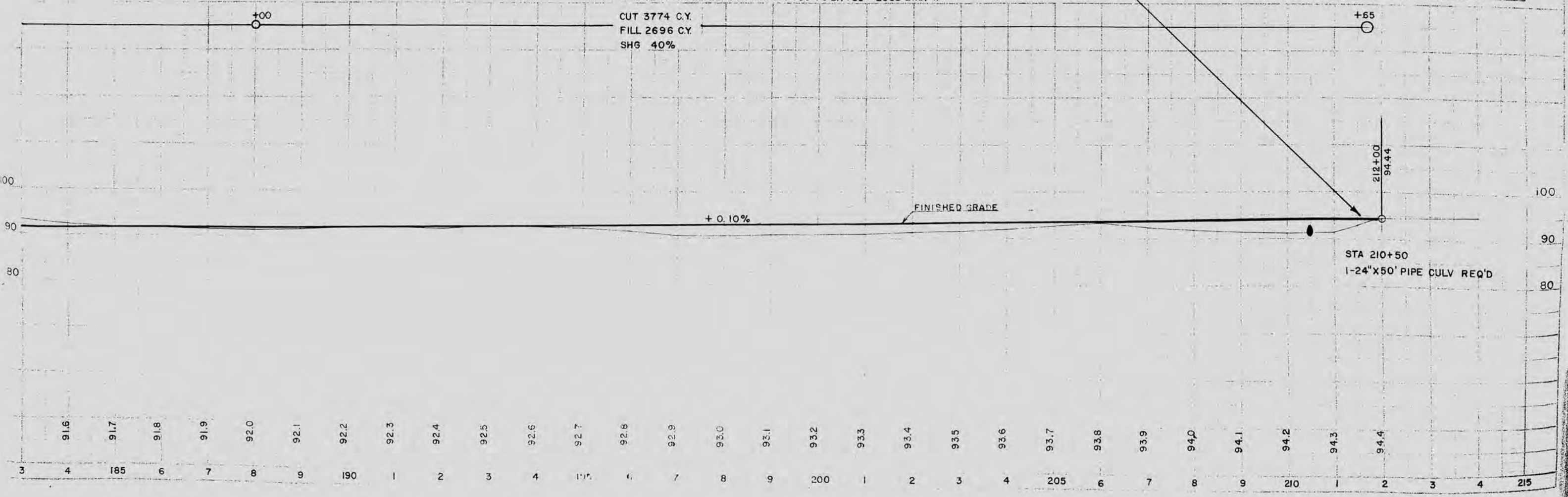


BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
19	186+90	SPIKE IN TELEPHONE POLE	3' LT. 93.03
20	195+25	" " SERVICE "	125' LT. 92.84
21	205+00	" " TELEPHONE "	65' RT. 93.68
22	212+75	" " 24" MAPLE	50' LT. 96.28

NET CENTERLINE LENGTH STA 185+00 TO 211+65 = 2665 LIN. FT.

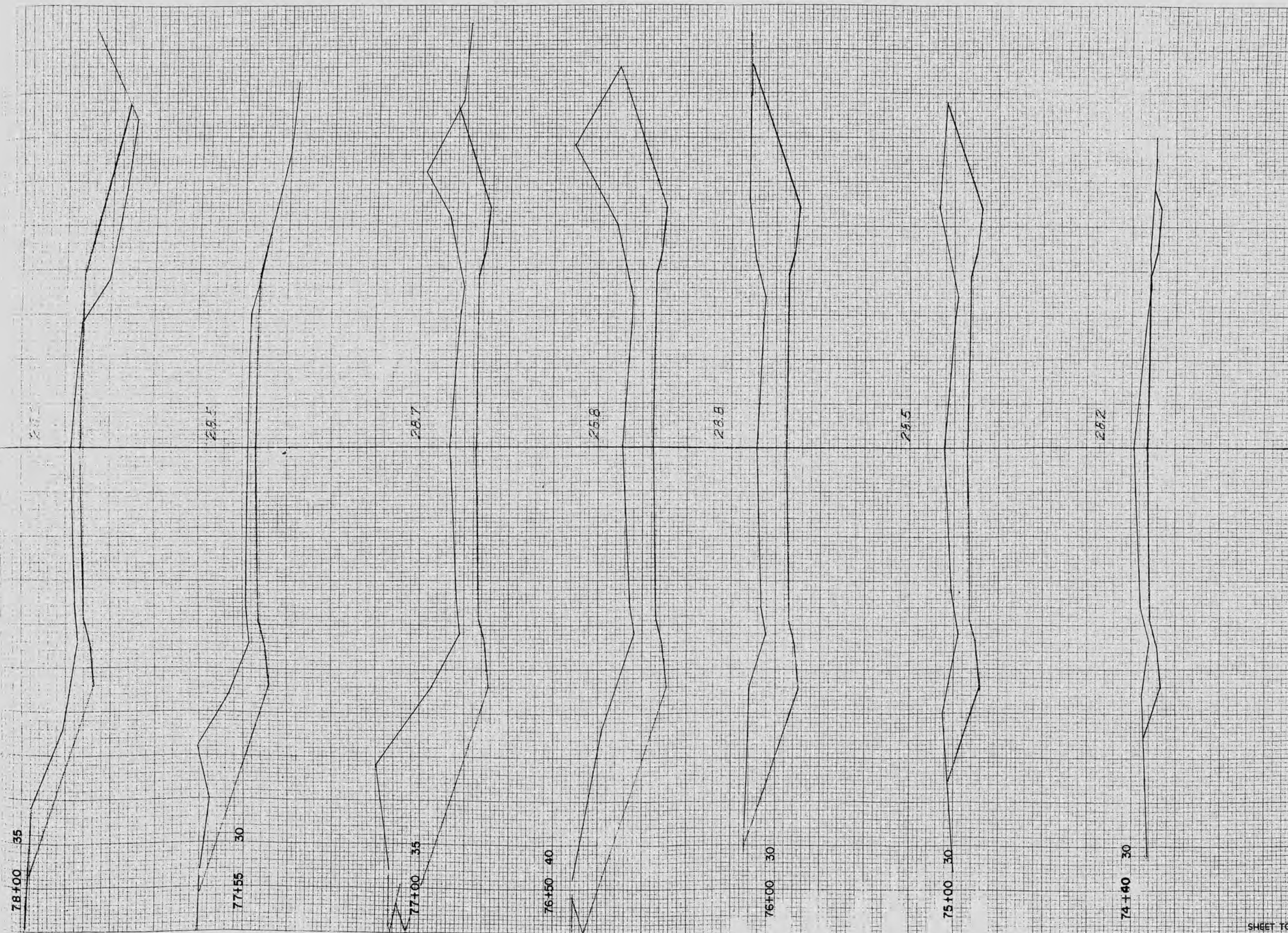
CUT 3774 C.Y.  
 FILL 2696 C.Y.  
 SHG 40%



91.6 91.7 91.8 91.9 92.0 92.1 92.2 92.3 92.4 92.5 92.6 92.7 92.8 92.9 93.0 93.1 93.2 93.3 93.4 93.5 93.6 93.7 93.8 93.9 94.0 94.1 94.2 94.3 94.4

3 4 185 6 7 8 9 190 1 2 3 4 195 5 6 7 8 9 200 1 2 3 4 205 6 7 8 9 210 1 2 3 4 215



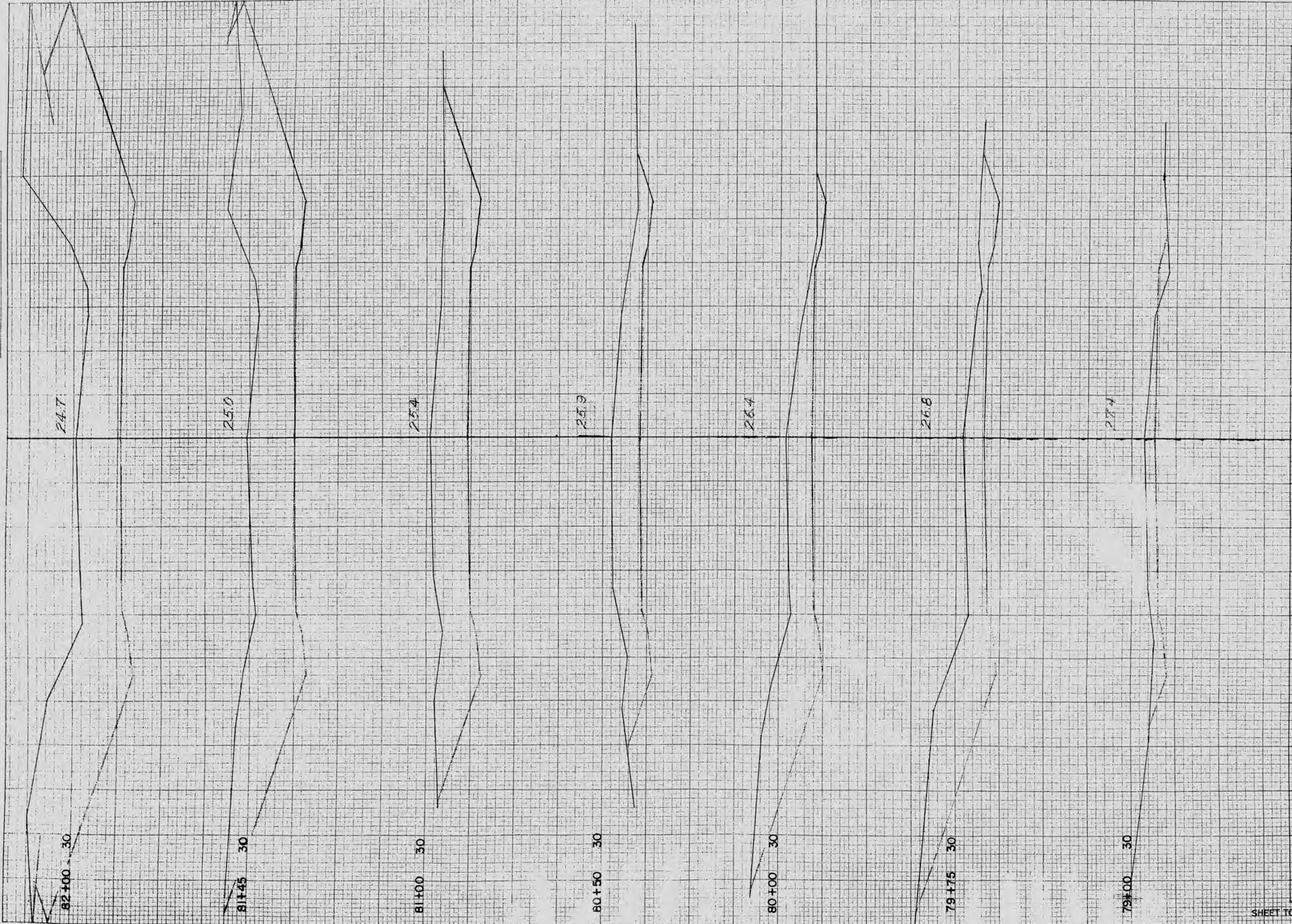


STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL.	FILL
74		56	
740		259	
75		346	
76		525	
750		717	0
77		515	0
755		172	46
78			
SHEET TOTAL		3182	46

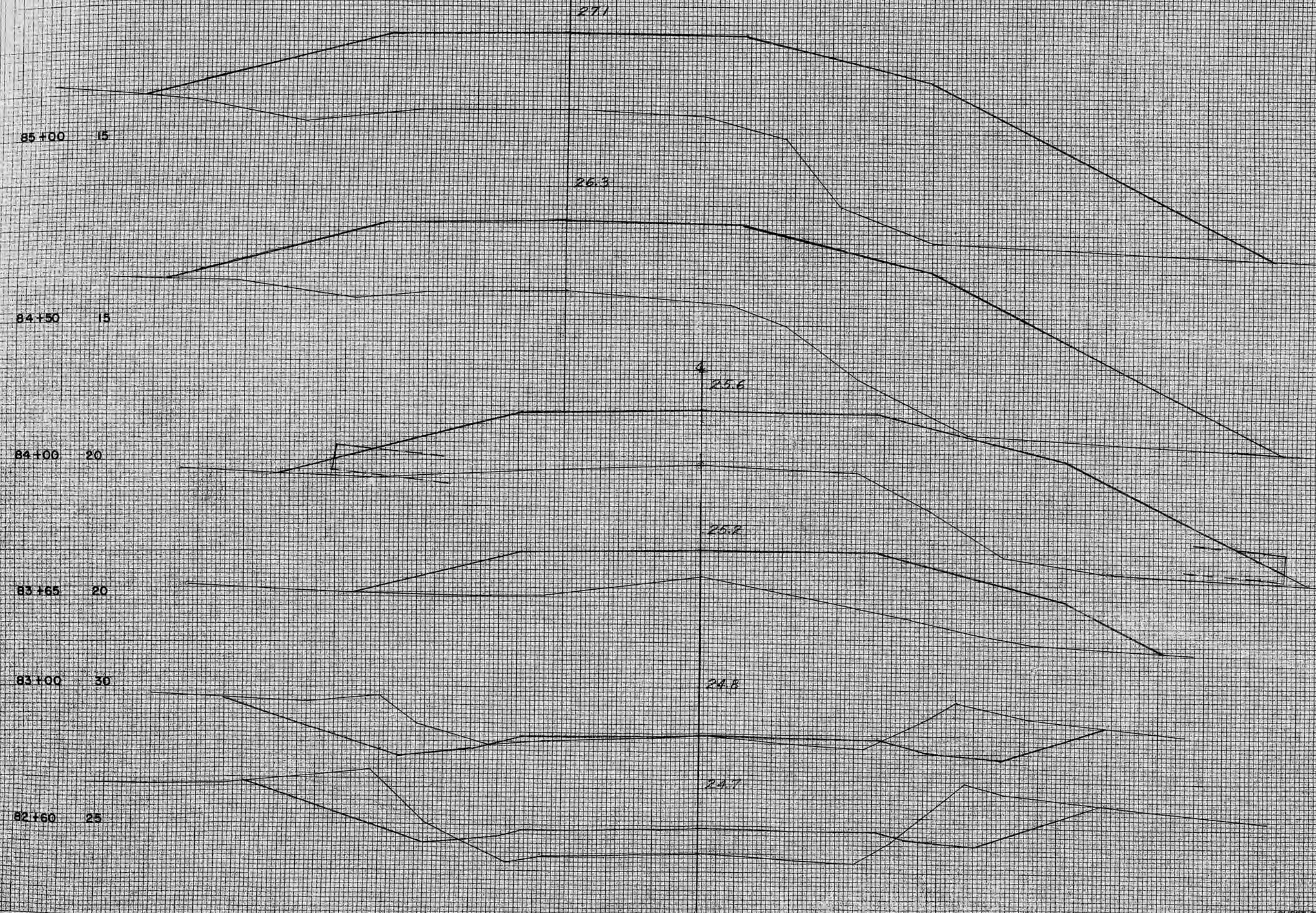
FINAL SURVEY  
NOTE BOOK  
NO.

ORIGINAL SURVEY  
NOTE BOOK  
NO. 866C

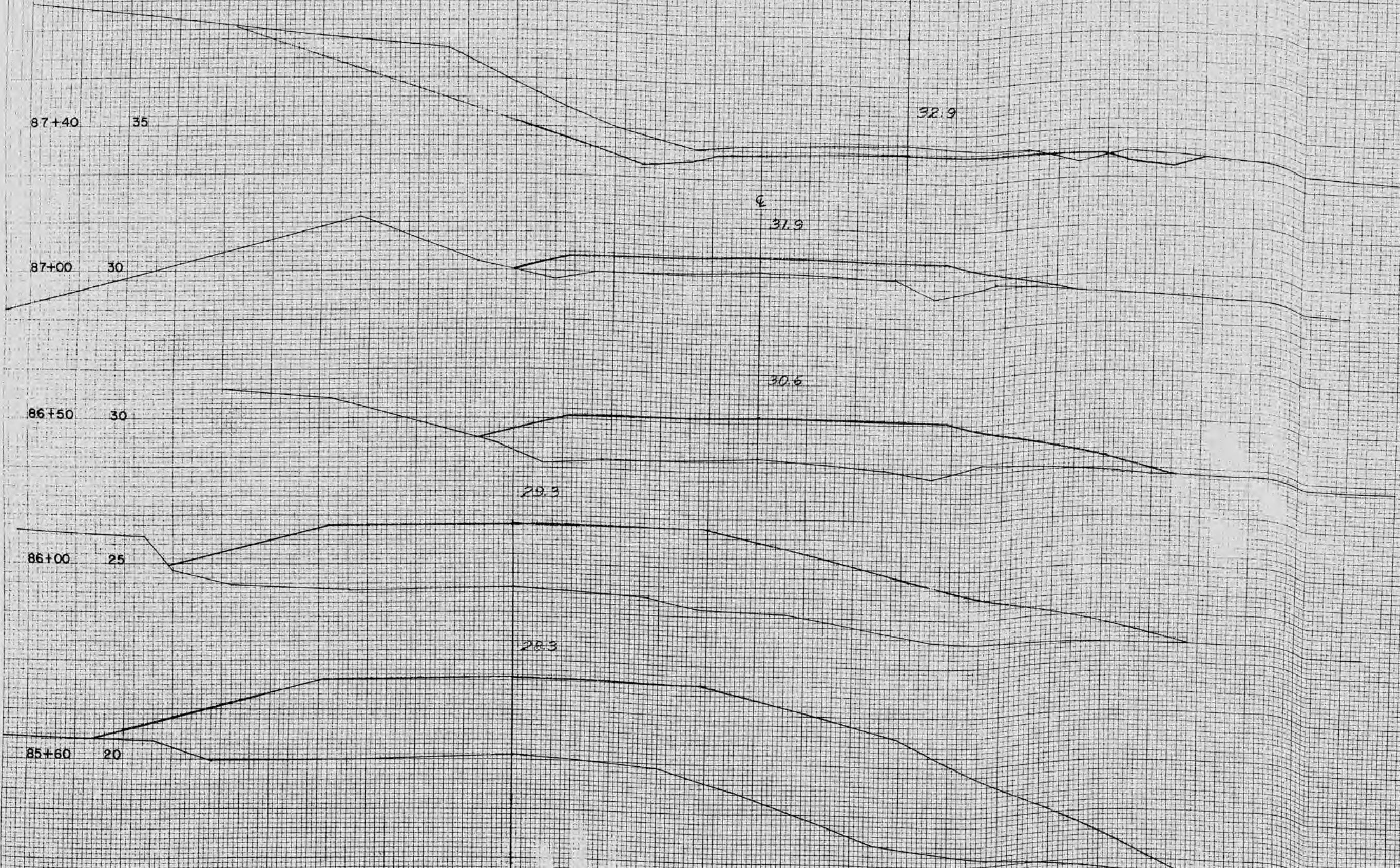
CM J.M.  
W.D.  
1/31



STATION	DISTANCE	YARDAGE	
		EXCAVATION	
82+00	0		
81+45	55		
81+00	110		
80+50	165		
80+00	220		
79+75	275		
79+00	330		
SHEET TOTAL		15325	

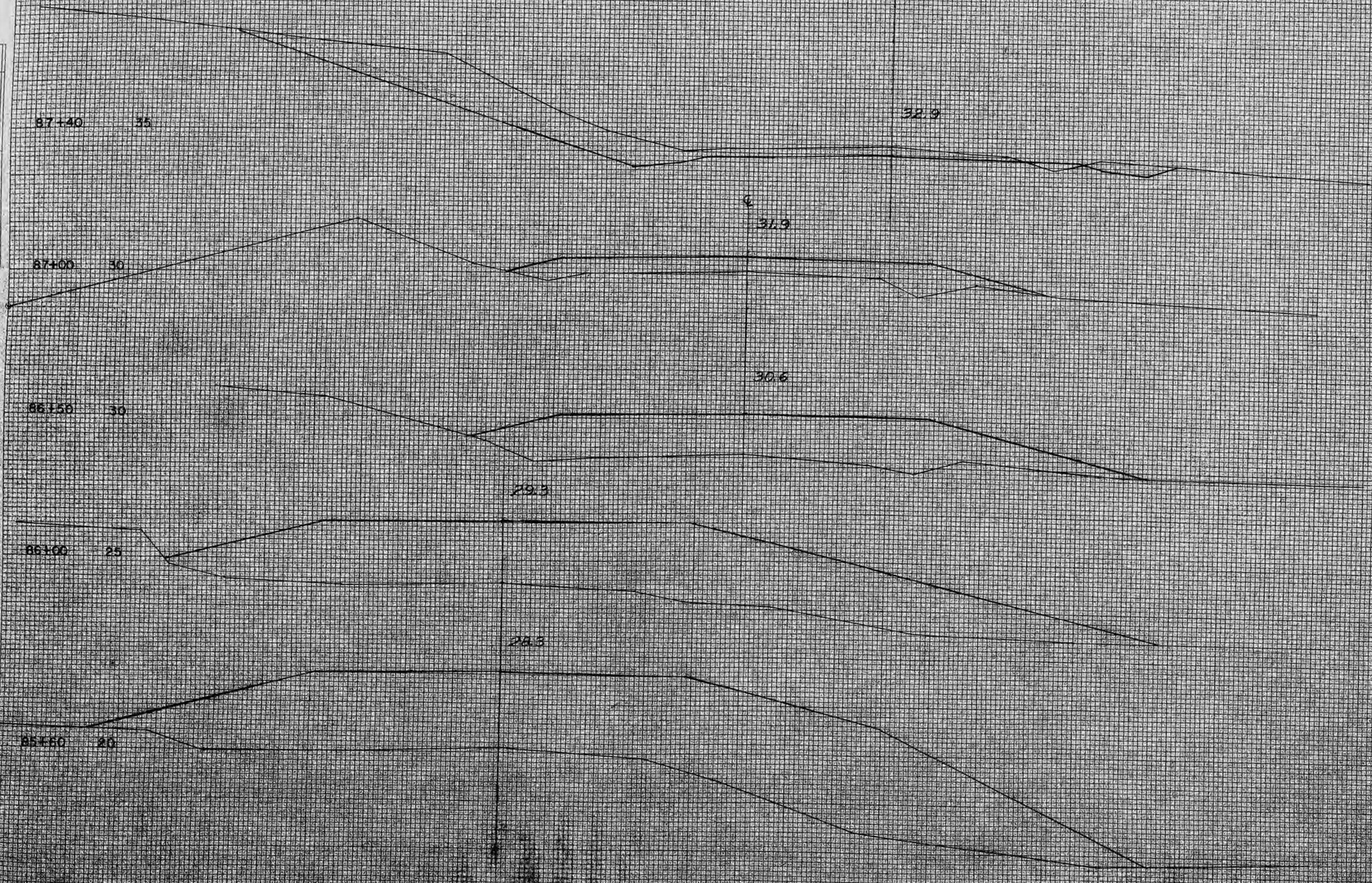


STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
82			
	915		183
160			
	224		111
83			
	87		467
165			
	0		707
84			
	0		1662
150			
	0		1372
85			
SHEET TOTAL		1226	4992



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
85	0		
160	0		
85	0		
150	0		
87	153		
140			
SHEET TOTAL		133	4161

SURVEYOR'S OFFICE  
 WISCONSIN  
 1-53  
 C.M. J.M.  
 8-086  
 CHECKED

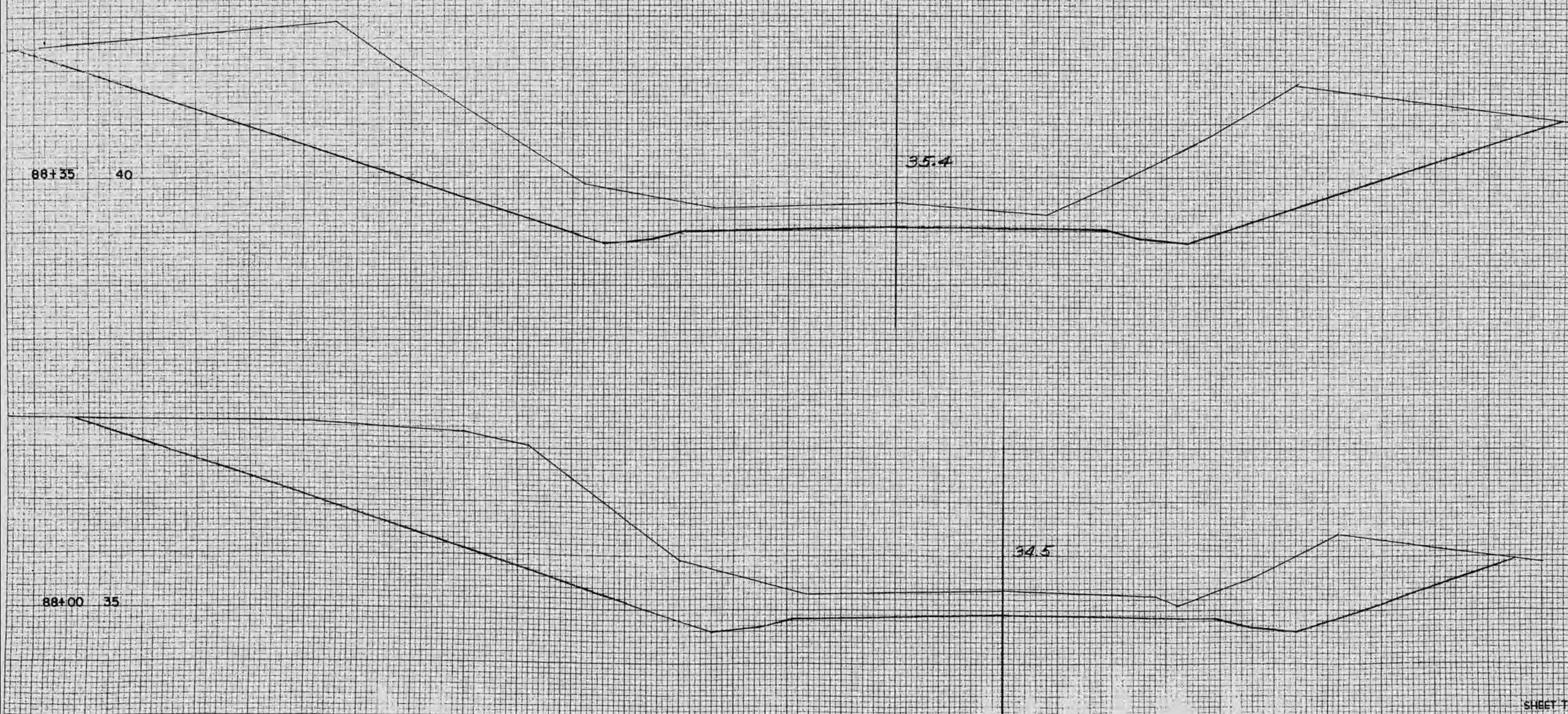


STATION	DISTANCE	YARDAGE	
		W/CL	EXCAVATION
85	0		2022
160	0		237
85	0		735
150	0		369
87	133		78
140			

NOTE: SEE SHEET NO. 19 FOR GRADES  
 SCALE: 1" = 20' HORIZ. 1" = 4' VERT.

S.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1165(2)	21	76

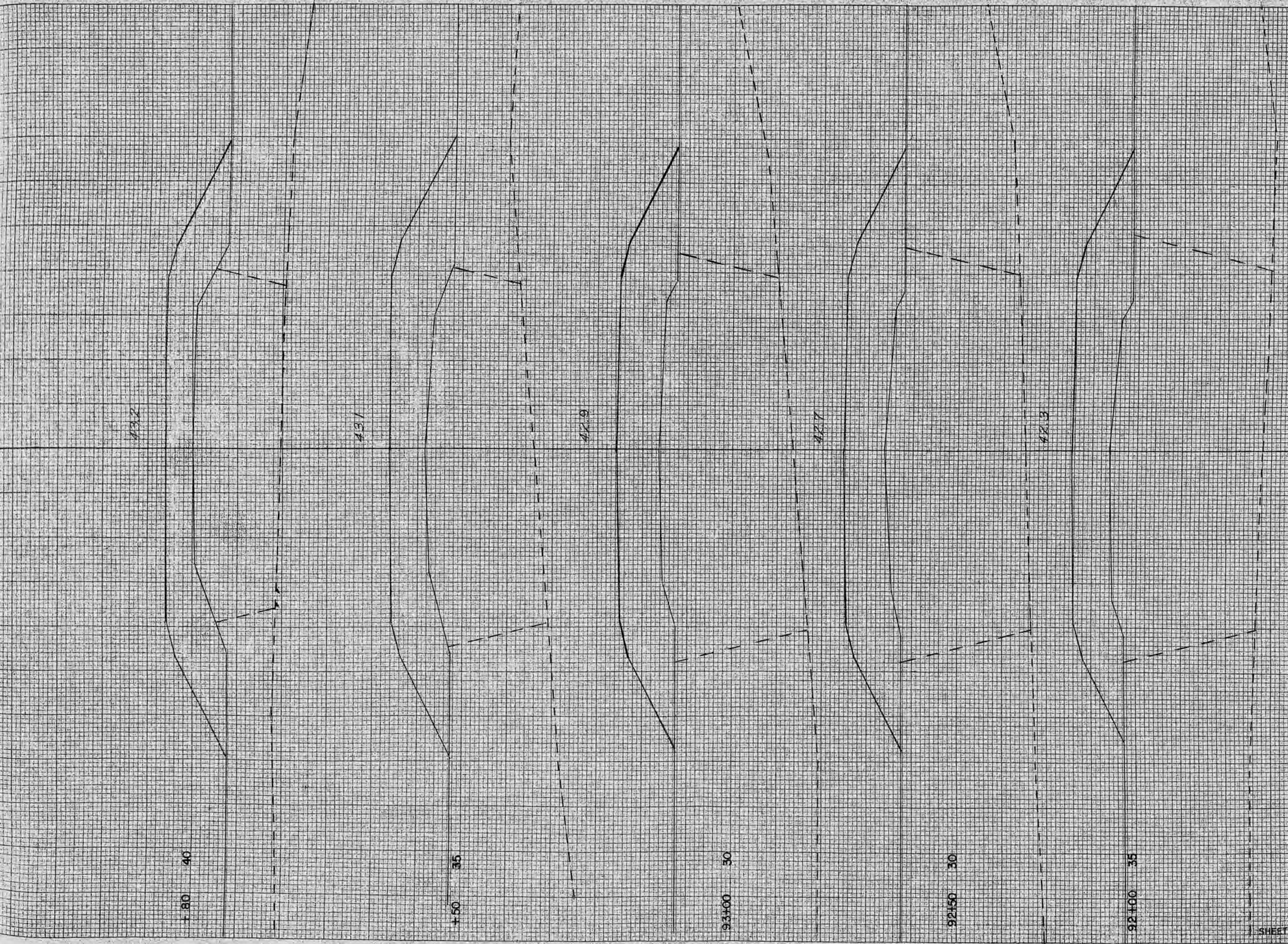
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
	UNKN		
87 + 40	9.35		4
88	9.48		0
135			
SHEET TOTAL		188.3	4



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL

91	0		76.1
50	0		
92	0		19.87
150	0		10.83
93	0		16.27
150	0		
180	0		75.5

SHEET TOTAL 0 736.4



432

431

429

427

423

+80 40

+50 35

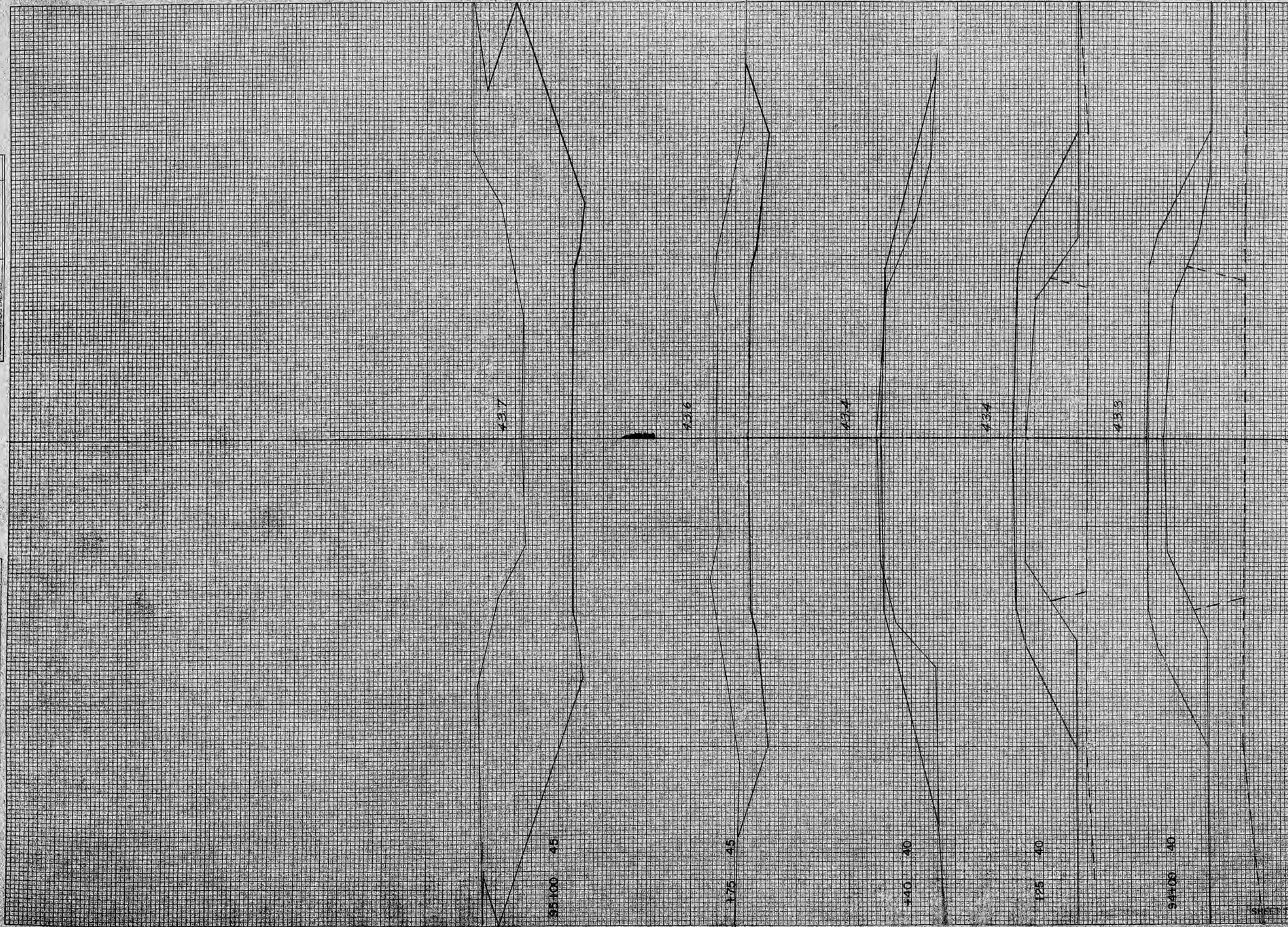
93+00 30

92+50 30

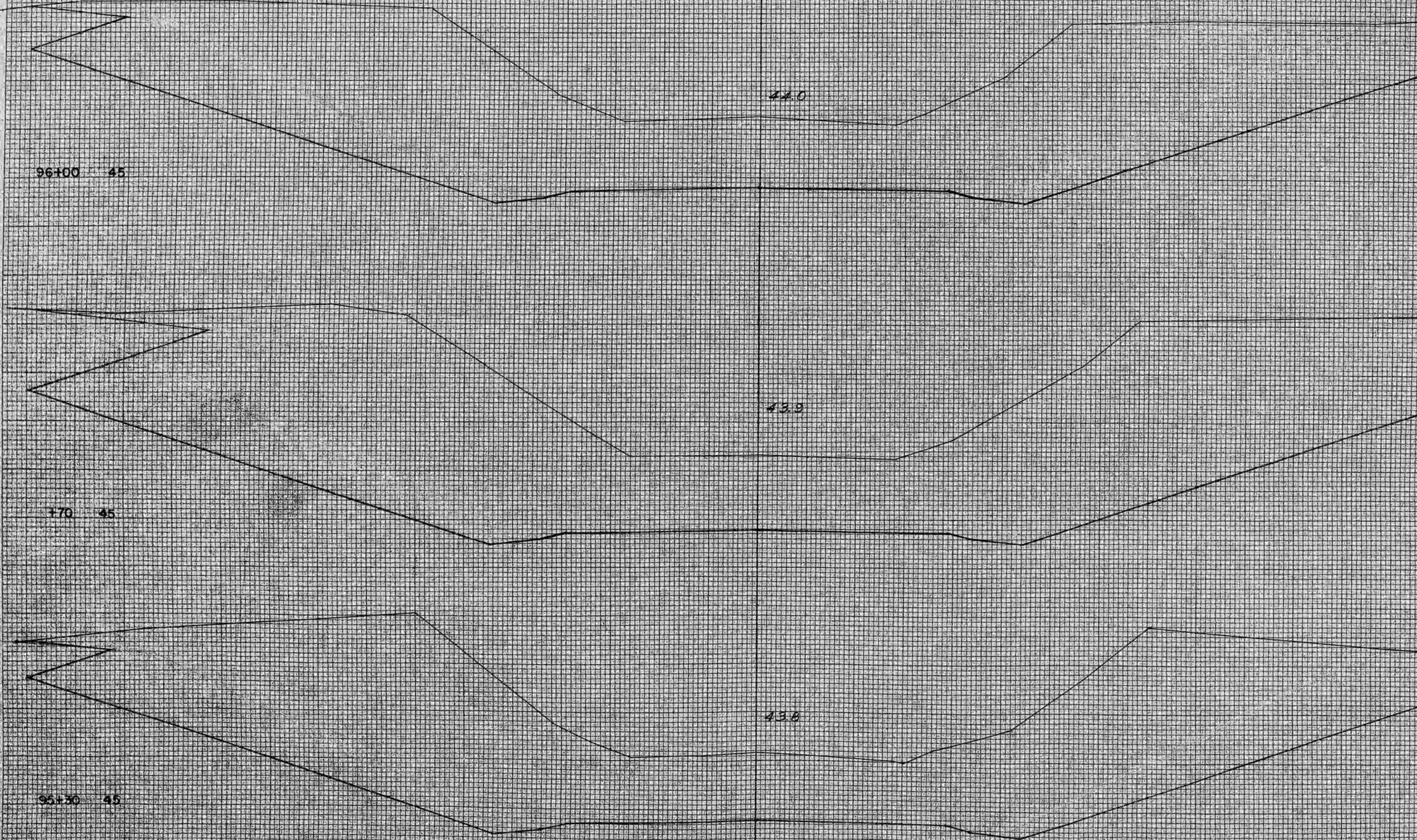
92+00 35

SURVEY PLANTING  
 NOTE BOOK FROM THE  
 NO. 100000  
 AREAS CHECKED

NOTE BOOK FROM THE  
 NO. 100000  
 AREAS CHECKED

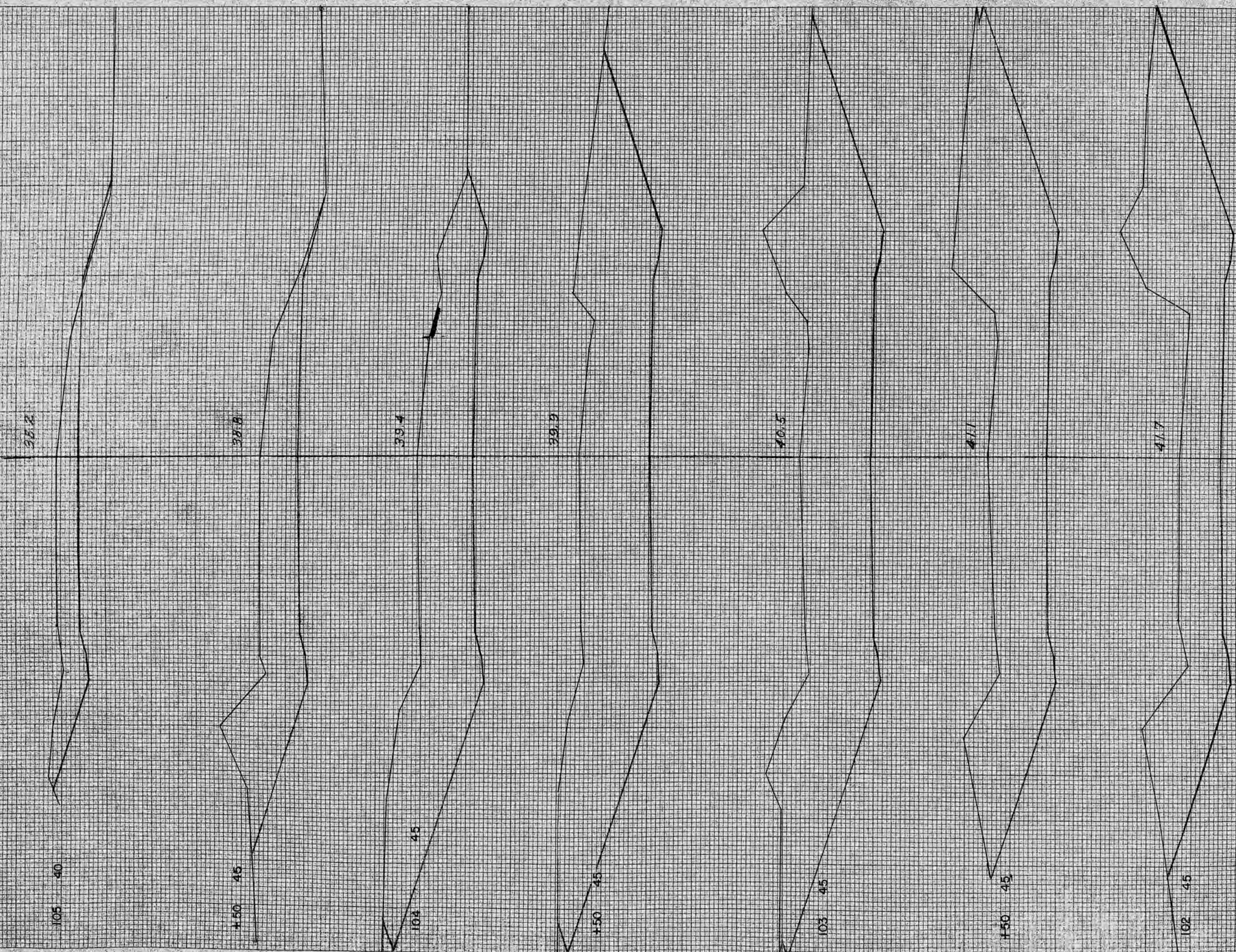


STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
33			
50	0		15.5
94	0		14.8
125	0		14.7
140	0		17
175	5.04		
95			
SHEET TOTAL		106	111

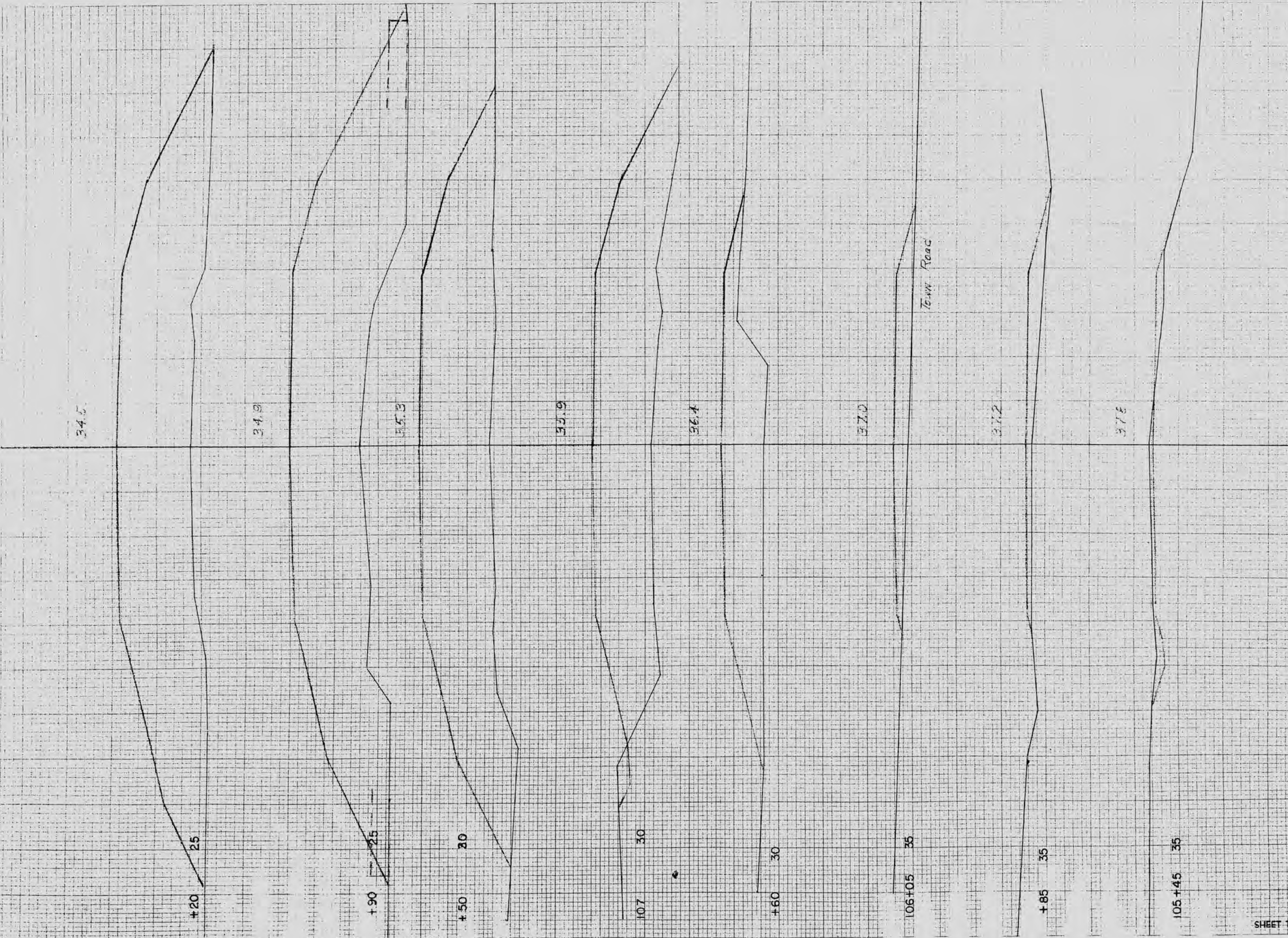


STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
95	1354	0	0
130	2797	0	0
170	2080	0	0
96			
SHEET TOTAL		6231	0



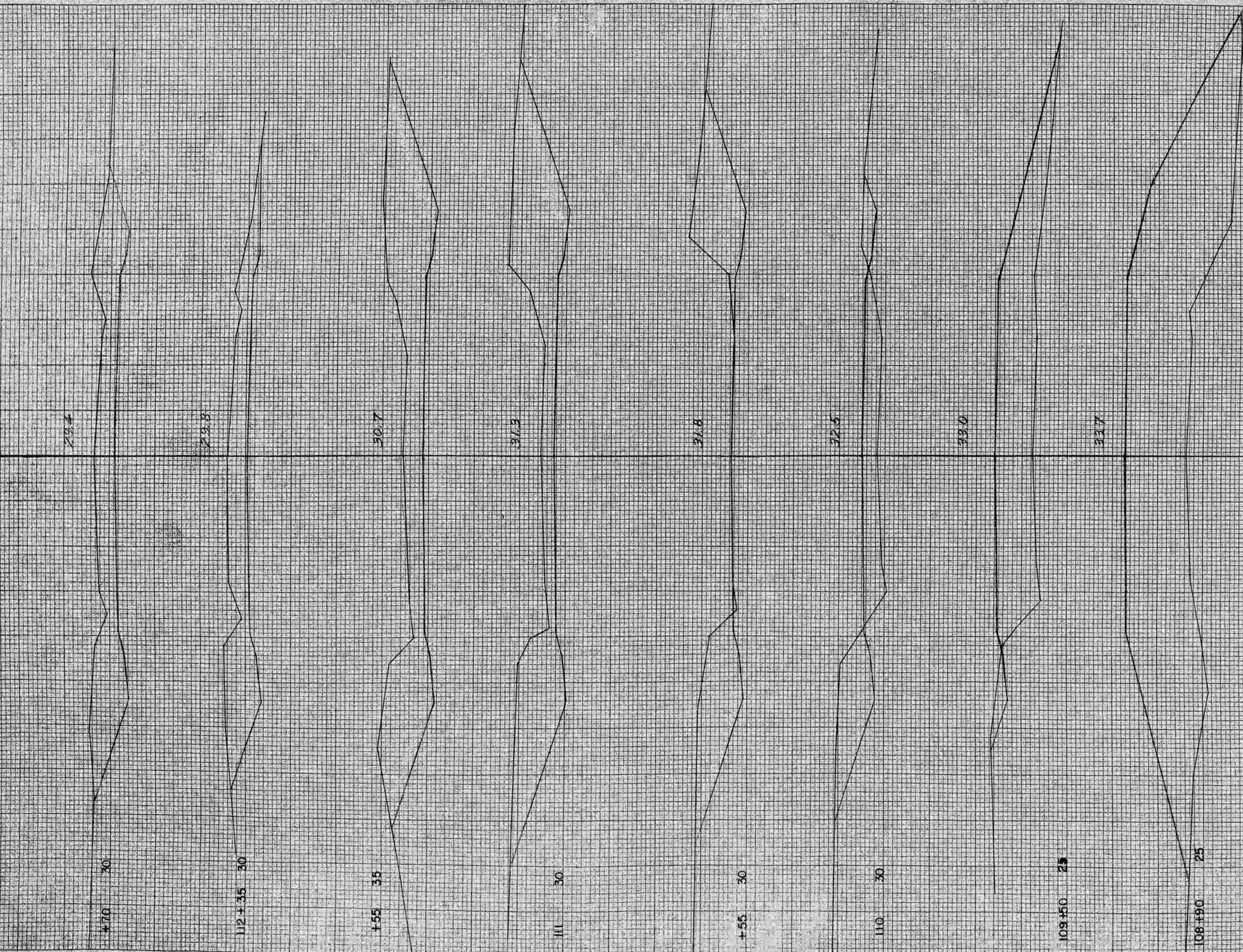


STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
101			
+55	626		0
102	1024		0
+50	1207		0
103	1280		0
+50	1022		0
104	636		0
+50	346		0
105			
SHEET TOTAL		6100	0

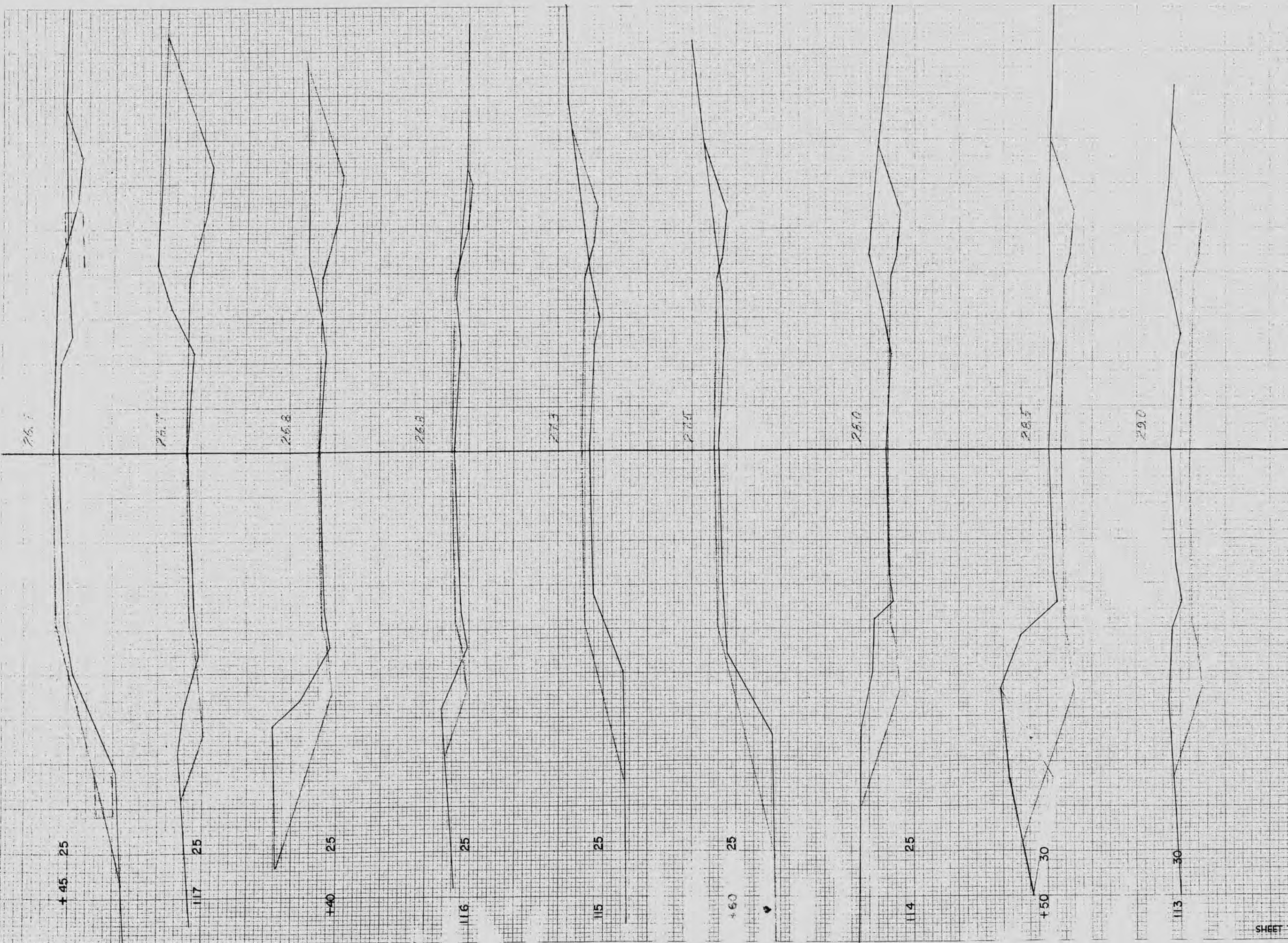


STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
34.5			
34.9			
35.3			
35.9			
36.4			
37.0			
37.2			
37.8			
105+45			
106+05			
107			
108			
109			
110			
111			
112			
113			
114			
115			
116			
117			
118			
119			
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200			

SHEET TOTAL 110 2350

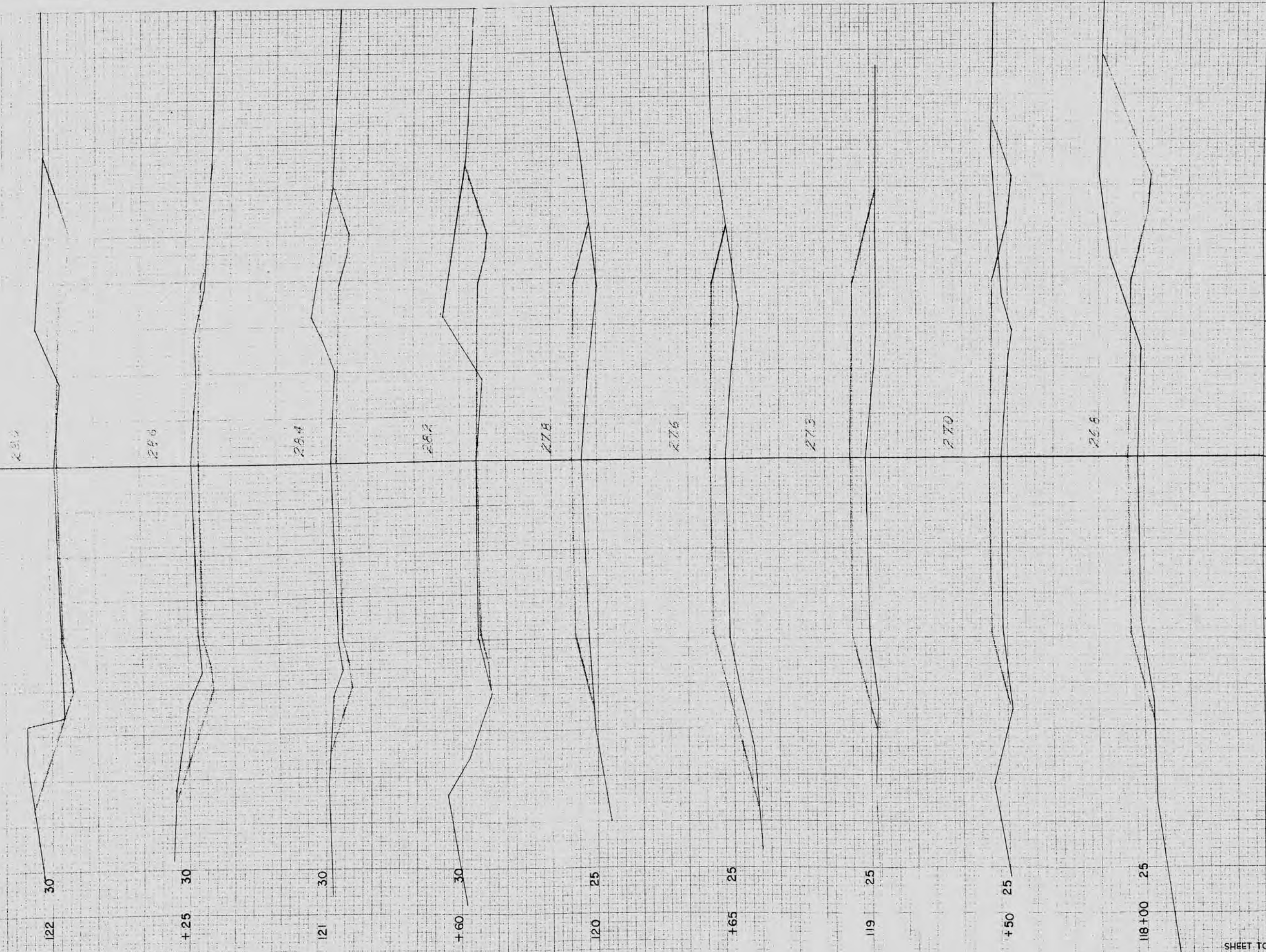


STATION	DISTANCE	YARDAGE		TOTAL
		UNCE	EXCAVATION	
108 + 20	0			1771
109 + 50	9			1800
110	63			2800
111	158			3400
112 + 35	309			6000
113	474			9000
114	531			9000
115	189			9000
172				
SHEET TOTAL		1773		3047

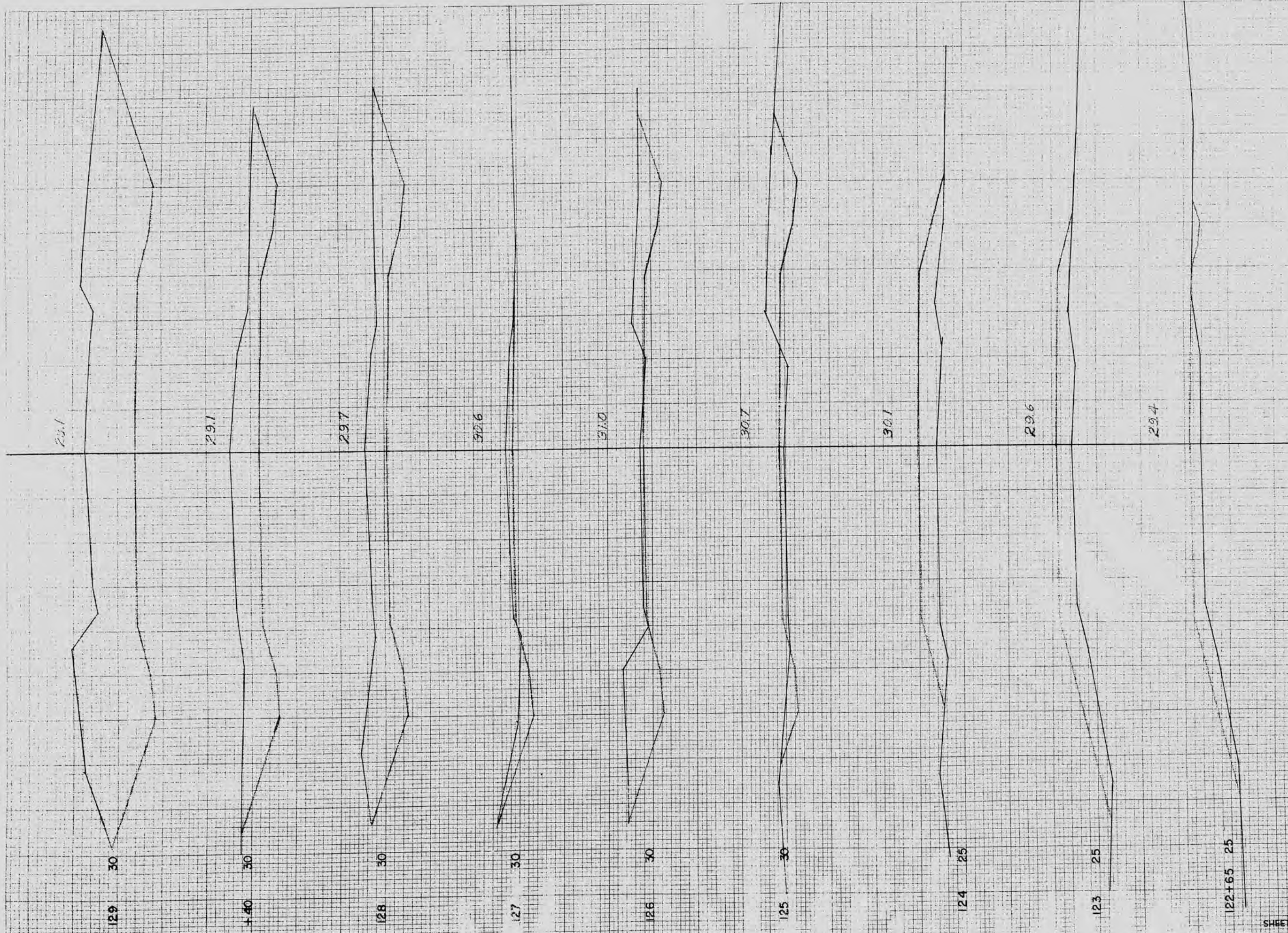


STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
117	70		
117	77		
117	294		24
117	122		70
113			
SHEET TOTAL		1525	141

PLATE 11  
 117 25  
 116 25  
 115 25  
 114 25  
 113 30  
 +45 25  
 +40 25  
 +60 25  
 +50 30



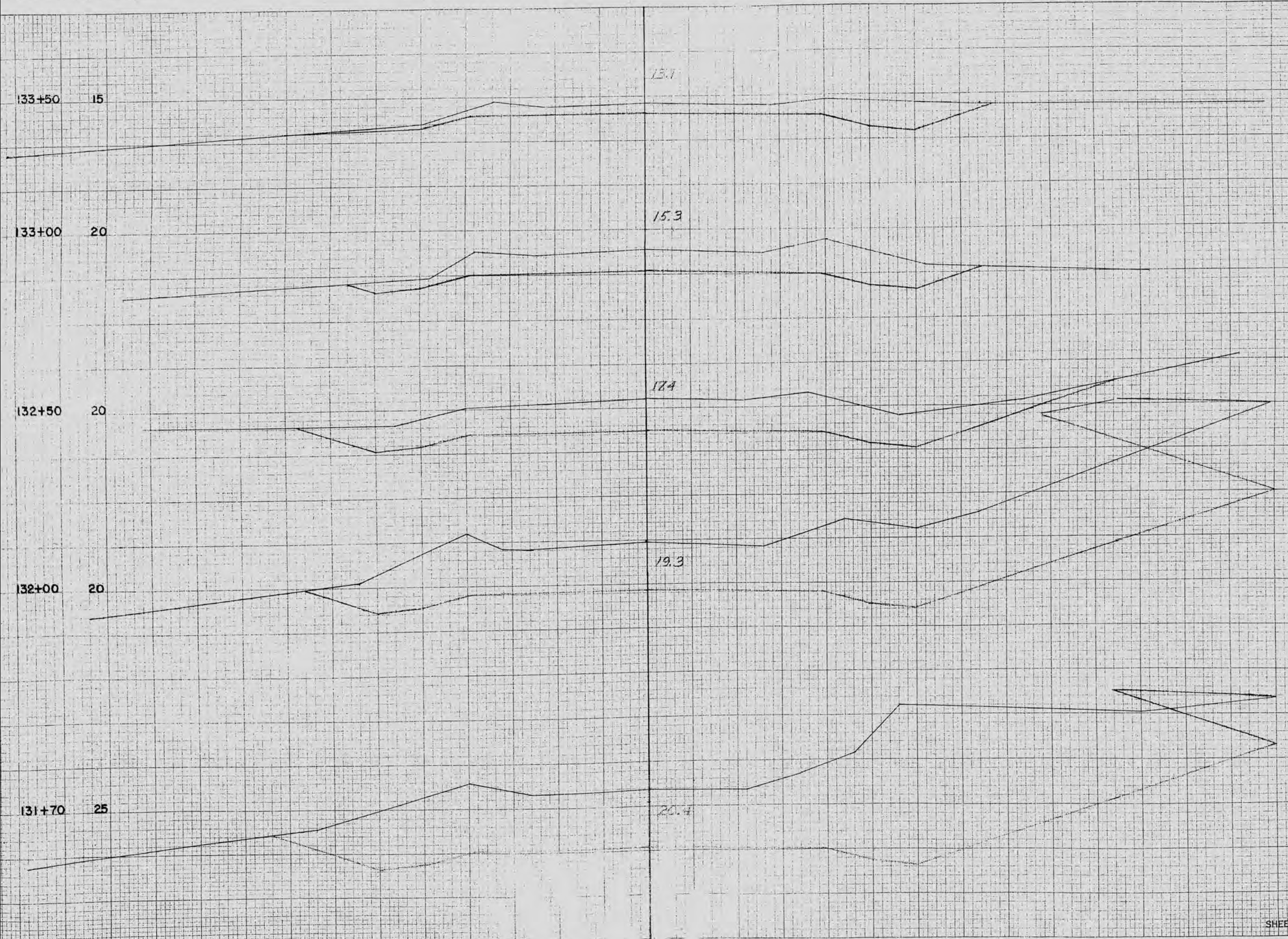
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
122	30		
121	30		
120	25		
119	25		
118+00	25		
118		113	
115		10	
150		7	
112		5	
145		4	
142		3	
141		3	
137		5.5	
135		4	
132		12	
SHEET TOTAL		618	846



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
129	30		
128	30		
127	30		
126	30		
125	30		
124	25		
123	25		
122+65	25		
SHEET TOTAL		2237	879

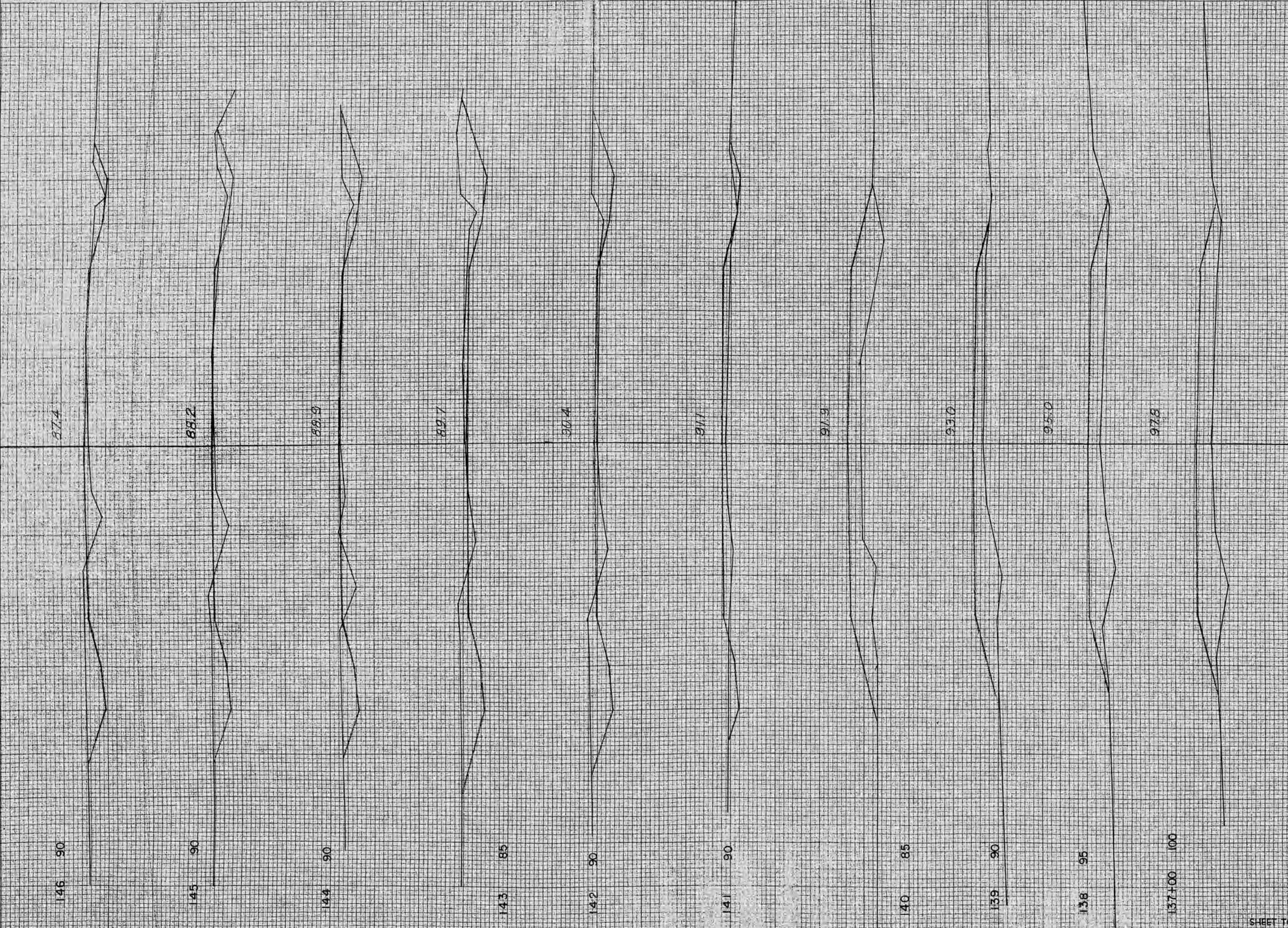






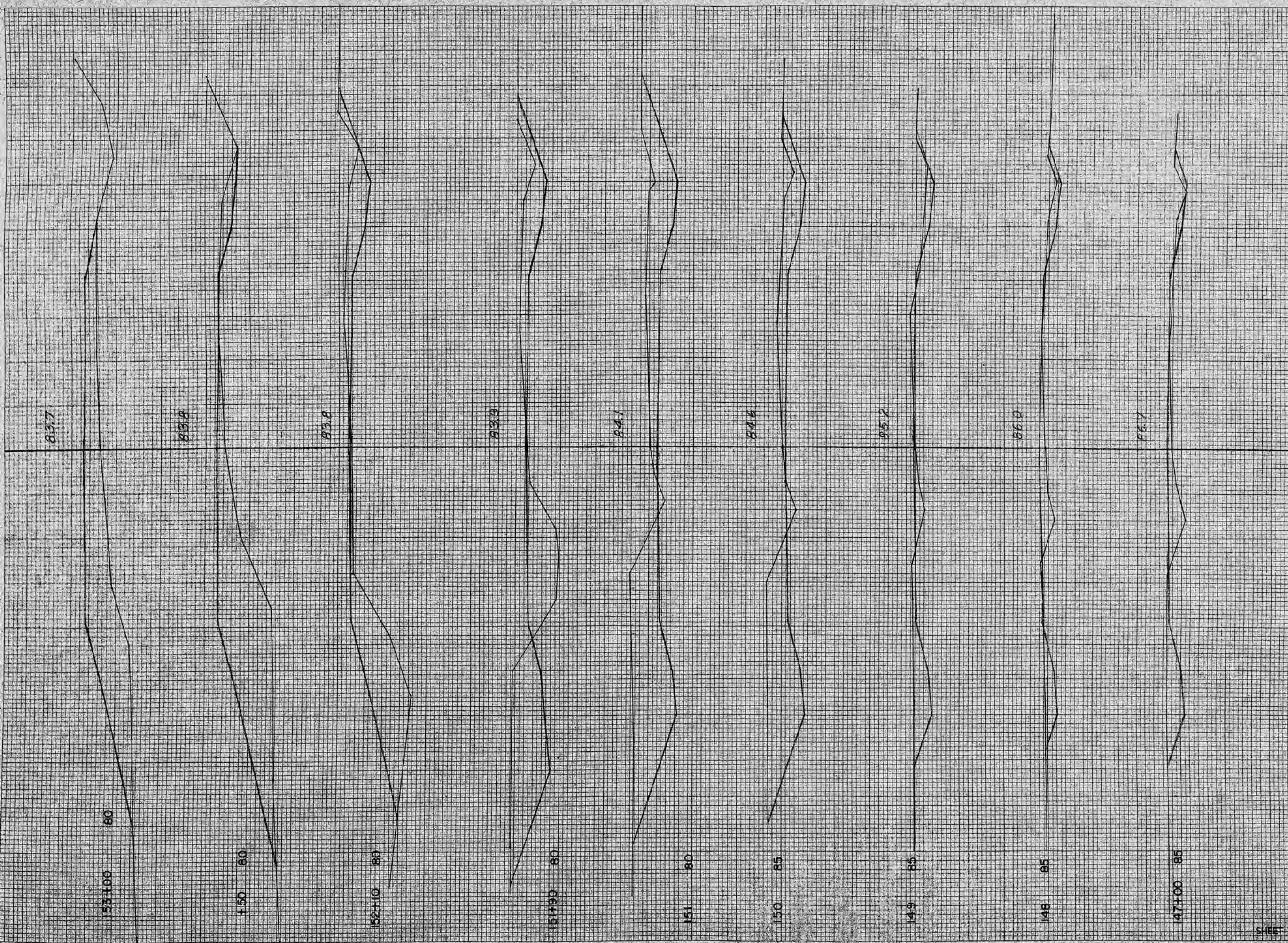
STATION	DISTANCE	YARDAGE	
		FILL	EXCAVATION
	15.7		
133+00	20	16.9	
	15.3	14.5	
	17.4	16.9	
132+50	20	17.8	
	19.3	23.1	
132+00	20		
131+70	25		
SHEET TOTAL		44.3	0



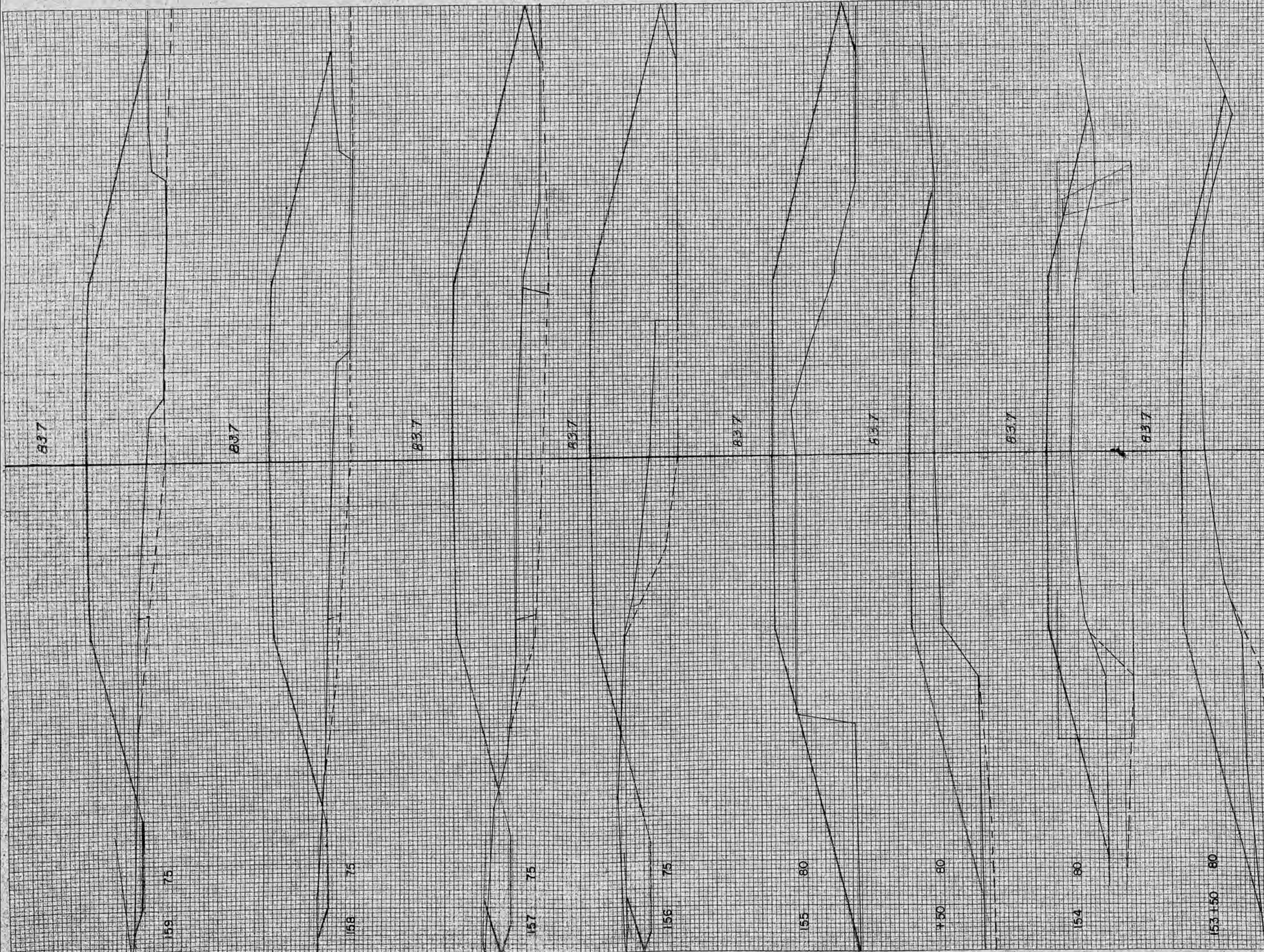


STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		DANCE	FILL
136		0	33.7
137		0	4.57
138		0	3.17
139		0	3.73
140		2	2.41
141	107		9.3
142	235		4.6
143	215		2.8
144	131		4.6
145	130		5.6
146			
SHEET TOTAL		820	20.88

PLATE 3 CROSS SECTION A.R.E. STANDARD  
FOR ROAD MAPS AND PLANS IN U.S.A.  
 SUBJECT MATTER

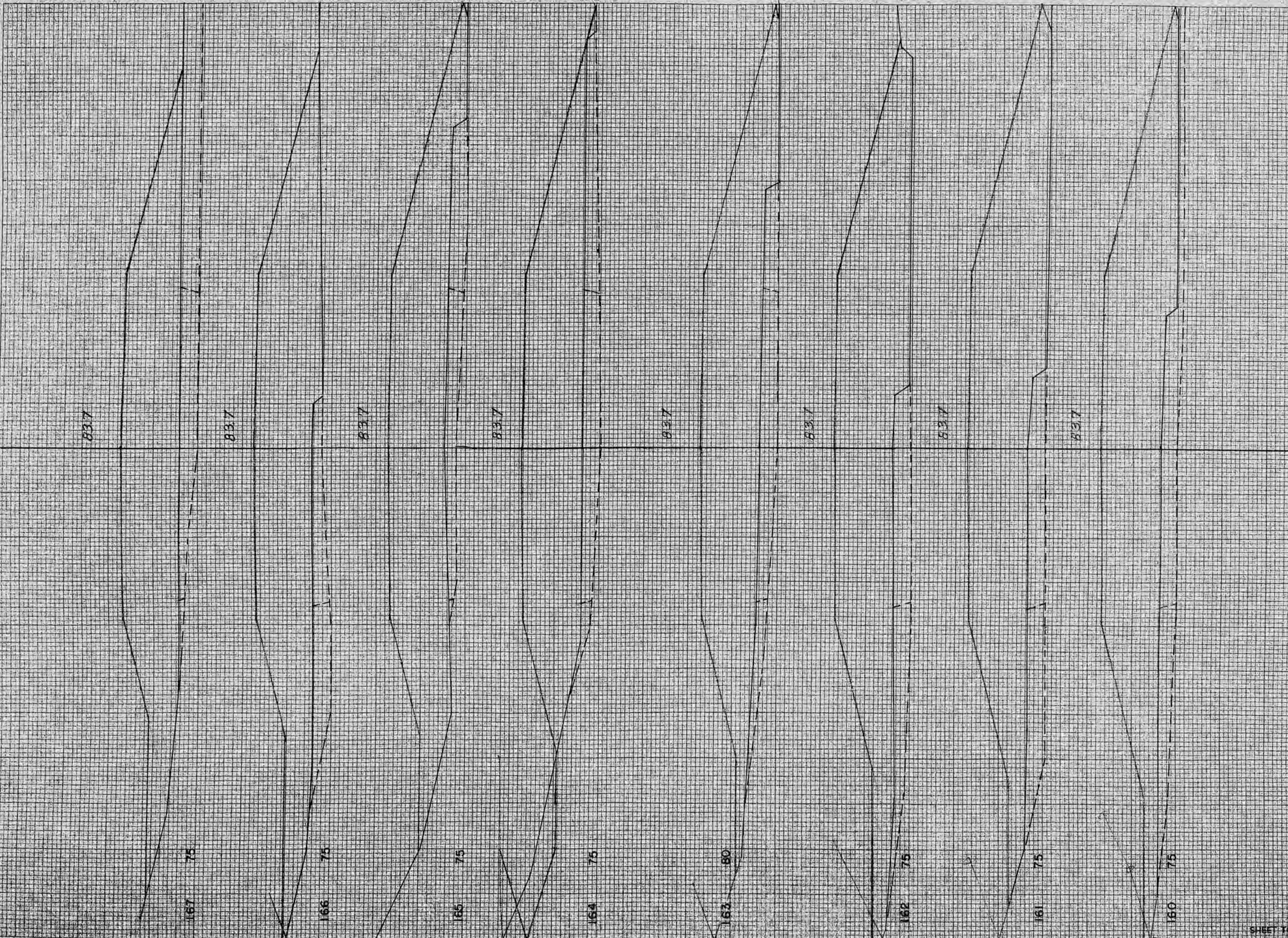


STATION	DISTANCE	VARIAGE	
		EXCAVATION	FILL
146			
	115		60
147			
	81		7
148			
	83		15
149			
	263		28
150			
	550		15
151			
	437		60
152			
	44		16
153			
	37		170
150			
	11		263
153			
SHEET TOTAL		1633	603



STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL	FILL
153	0	350	
150	0	427	
154	0	424	
150	0	548	
155	120	1512	
156	206	2064	
157	171	2008	
158	48	1772	
159	0		
SHEET TOTAL		435	3775

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
167			
167	2.0		12.97
160			
161	6		21.65
161	0		20.52
162	5		13.10
163			
163	0		17.23
164	3.5		17.61
165	9.3		64.68
166	0		16.52
167			
SHEET TOTAL		206	189.61



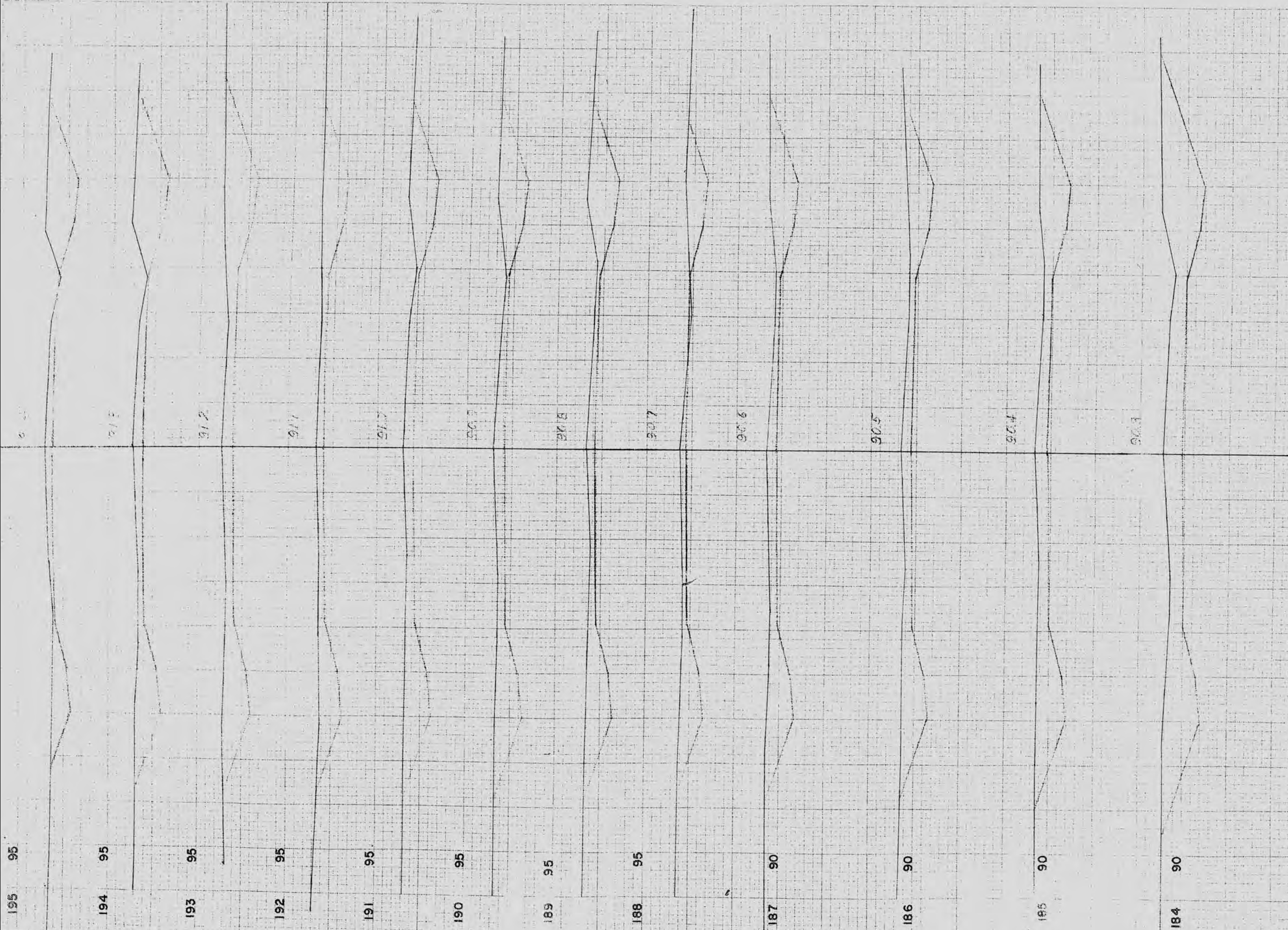


STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
	UNCL.		
168			
168			
169			
170	50		
170	20		
171	74		
172	60		
173	50		
174	50		

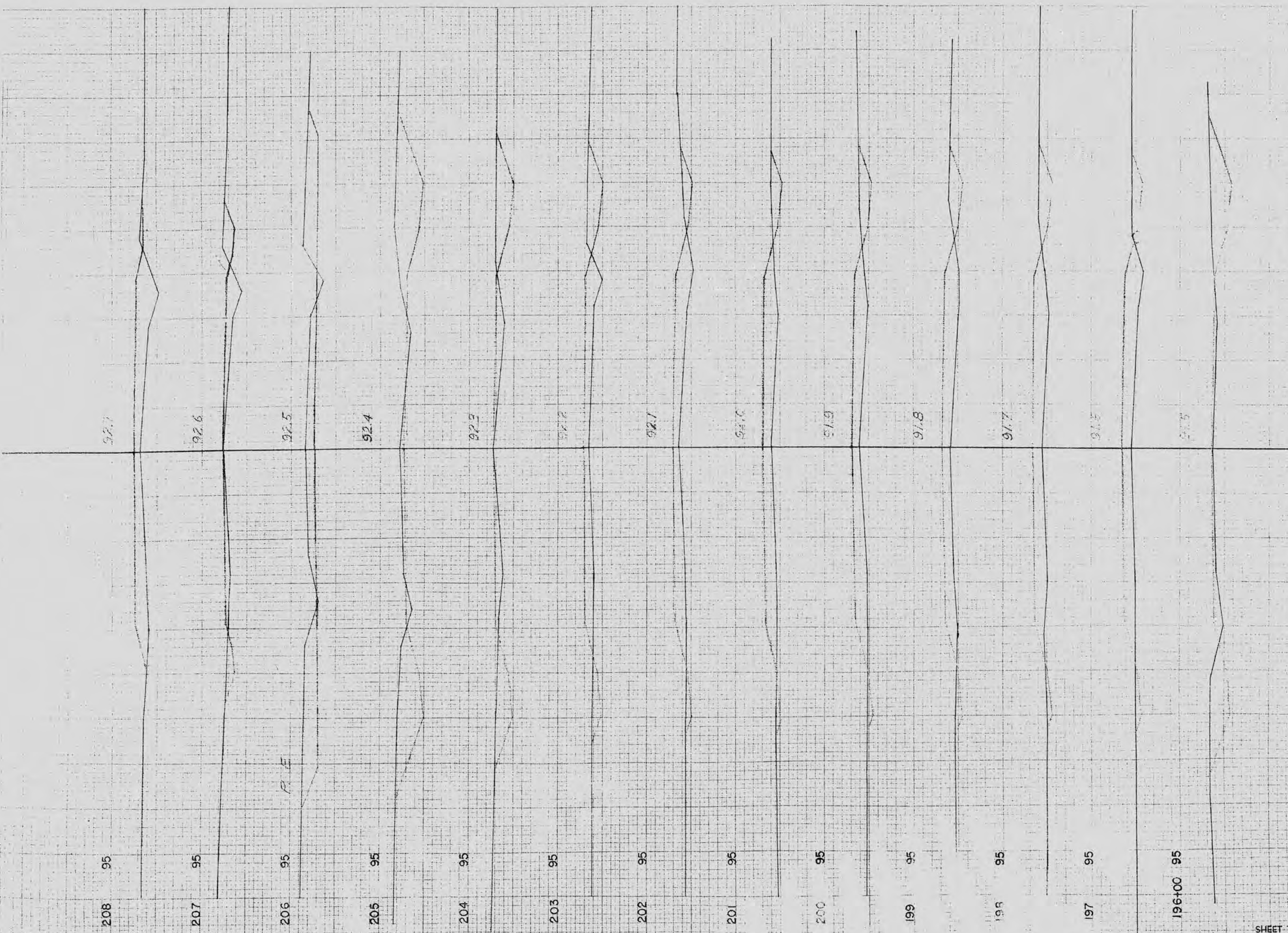
SHEET TOTAL 2310 4973



R.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S1165(2)	13	22



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
185	0		
186	0		
187	0		
188	0		
189	0		
190	0		
191	0		
192	0		
193	0		
194	0		
195	0		
185	0		
186	0		
187	0		
188	0		
189	0		
190	0		
191	0		
192	0		
193	0		
194	0		
195	0		
SHEET TOTAL		5260	0



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
208	0		
207	10		
206	20		
205	30		
204	40		
203	50		
202	60		
201	70		
200	80		
199	90		
198	100		
197	110		
196+00	120		
<b>SHEET TOTAL</b>		1121	1652

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S1165(2)	1	46

211+774 95

+50 95

211+00 95

210+00 95

209+00 95

STA 211+00 END 2<sup>ND</sup> PROJECT

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
208		0	5
209		0	5
210		0	5
211		0	5
212		0	5
213		0	5
214		0	5
215		0	5
216		0	5
217		0	5
218		0	5
219		0	5
220		0	5
221		0	5
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STA. NO	SUBGR ELEV.	SLOPE LT	DISTANCE CL TO SLOPE STAKE		SLOPE RT.	STA. NO.	SUBGR ELEV.	SLOPE LT	DISTANCE CL TO SLOPE STAKE		SLOPE RT.	STA. NO.	SUBGR ELEV.	SLOPE LT	DISTANCE CL TO SLOPE STAKE		SLOPE RT.	STA. NO.	SUBGR ELEV.	SLOPE LT	DISTANCE CL TO SLOPE STAKE		SLOPE RT.						
			LEFT	RIGHT					LEFT	RIGHT					LEFT	RIGHT					LEFT	RIGHT							
71	22.8		C47	C33		+75	43.6		C45	C43		+50	27.0		F28	C37		+90	83.9		C49	C40		194	91.3		C38	C40	
72	24.2		C36	C39		95	43.7		C60	C60		119	27.3		F30	F29		152+10	83.8		F41	C41		195	91.4		C37	C37	
+35	25.9		F25	C39		+30	43.8		C34	C82		+65	27.6		F39	F26		150	83.8		F46	C34		196	91.5		C36	C38	
73	25.8		F24	C34		+70	43.9		C34	C98		120	27.8		F27	F26		153	83.7		F41	F26		197	91.6		C35	C33	
74	27.9		F24	C30		96	44.0		C85	C88		+60	28.2		C26	C32		+50			F50	F39		198	91.7		C34	C39	
+40	28.2		C33	C29		+50	44.2		C42	C39		121	28.4		C32	C30		154			F45	F38		199	91.8		C33	C34	
75	28.5		C38	C39		97	44.2		F43	F46		+25	28.6		C37	F21		+50			F50	F30		200	91.9		C32	C35	
76	28.8		C45	C43		+50	44.3		F35	F40		122	29.0		C38	C34		155			F55	F55		201	92.0		C31	C37	
+50	28.8		C59	C43		98	44.2		F36	F27		+65	29.4		F39	C27		156			C51	F56		202	92.1		C30	C36	
77	28.7		C58	C38		99	44.0		C30	C30		123	29.6		F42	F26		157			C61	F56		203	92.2		C29	C34	
+55	28.5		C51	F22		100	43.5		F25	C34		124	30.1		F29	F30		158			C53	F45		204	92.3		C28	C33	
78	28.3		C49	F39		+50	43.1		F24	C32		125	30.7		C36	C37		159			C53	F45		205	92.4		C27	C32	
79	27.4		C33	F33		101	42.7		C26	C32		126	31.0		C42	C38		160			F58	F51		206	92.5		C26	C31	
+75	26.9		C54	C32		+55	42.2		C40	C45		127	30.6		C42	PE		161			F51	F52		207	92.6		C25	C28	
80	26.4		C52	C30		102	41.7		C46	C50		128	29.7		C42	C41		162			F57	F46		208	92.7		F25	C30	
+50	25.9		C35	C32		+50	41.1		C45	C51		+40	29.1		C42	C39		163			F48	F51		209	92.8		F24	F34	
81	25.4		C41	C40		103	40.5		C57	C49		129	28.1		C44	C48		164			C65	F50		210	92.9		F23	F33	
+45	25.0		C53	C53		+50	39.9		C58	C45		+25	27.6		C51	C46		165			F45	F51		211	93.0		F22	F32	
82	24.7		C59	C58		104	39.4		C58	C31		+80	25.9		C85	C62		166			F56	F45		+50	93.1		F20	F20	
+60	24.7		C50	C44		+50	38.8		C44	C28		130	25.4		C89	C66		167			F50	F42							
83	24.5		C52	C44		105	38.2		C37	F30		+35	24.5		C70	C66		168			F50	F51							
+65	25.2		F38	F51		+45	37.8		C29	F25		131	22.7		C59	C70		169			F32	F43							
84	25.6		F46	F66		+85	37.2		F21	F28		+50	21.7		C46	C75		170	63.7		C44	F50							
+50	26.3		F44	F78		106+05	37.0		F21	F27		+70	20.4		C42	C58		+50	84.0		C44	F45							
85	27.1		F47	F77		+60	36.4		F36	F29		132	19.3		C38	C90		171	84.2		C45	C36							
+60	28.3		F43	F68		107	35.9		C40	F43		+50	17.4		C49	C52		172	84.7		C44	C35							
86	29.3		F36	F69		+50	35.3		F47	F40		133	15.3		C48	C37		173	85.2		C46	C36							
+50	30.6		F29	F42		+90	34.9		F49	F50		+50	13.1		C40	C35		174	85.7		C43	C36							
87	31.9		F25	F32		108+20	34.5		F49	F45		134	12.8		C47	C44		175	86.2		C45	C35							
+40	32.9		C69	C30		+90	33.7		F46	F49		+40	10.6		F32	C52		176	86.7		C38	C42							
88	34.5		C86	C48		109+50	33.0		C52	F45		+55	10.9		F40	F27		177	87.2		C38	C40							
+35	35.4		C82	C62		110	32.5		C40	C31		106	9.9		F30	F23		178	87.7		C36	C38							
89	37.1		C61	C52		+55	31.8		C42	C40		137	9.5		F26	F27		179	88.2		C37	C35							
+55	38.4		C42	F27		111	31.3		C45	C44		138	9.0		F28	F28		180	88.7		C42	C42							
+75	38.8		F28	F29		+55	30.7		C41	C42		139	8.0		F30	F25		181	89.2		C46	C47							
90	39.4		F27	F29		112+35	29.8		C37	C35		140	9.3		F31	F29		182	89.7		C47	C46							
+50	40.6		F29	F31		+70	29.4		C38	C32		141	9.1		C32	C34		183	90.2		C44	C46							
91	41.1		F31	F31		113	29.0		C37	C37		142	9.0		C37	C37		184	90.3		C43	C45							
+50	41.8		F32	F33		+50	28.5		C41	C35		143	8.9		C40	C39		185	90.4		C40	C40							
92	42.3		F33	F34		114	28.0		C39	C34		144	8.8		C35	C38		186	90.5		C39	C40							
+50	42.7		F34	F34		+60	27.5		F45	C34		145	8.8		C36	C36		187	90.6		C39	C39							
93	42.9		F34	F34		115	27.3		F37	C36		146	8.7		C36	C34		188	90.7		C38	C37							
+50	43.1		F35	F35		116	26.8		C35	C32		147	8.6		C36	C34		189	90.8		C39	C39							
+80	43.2		F35	F35		+40	26.8		C47	C43		148	8.6		C34	C31		190	90.9		C39	C39							
94	43.3		F35	F35		117	26.7		C39	C47		149	8.5		C36	C36		191	91.0		C39	C39							
+25	43.4		F35	F35		+45	26.7		F48	C38		150	8.4		C42	C36		192	91.1		C38	C38							
+40	43.4		F44	F41		118	26.8		F29	C44		151	8.4		C44	C44		193	91.2		C39	C41							