

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

FUL-2-4.36 & FUL-66-(3.97-4.97)

FULTON COUNTY

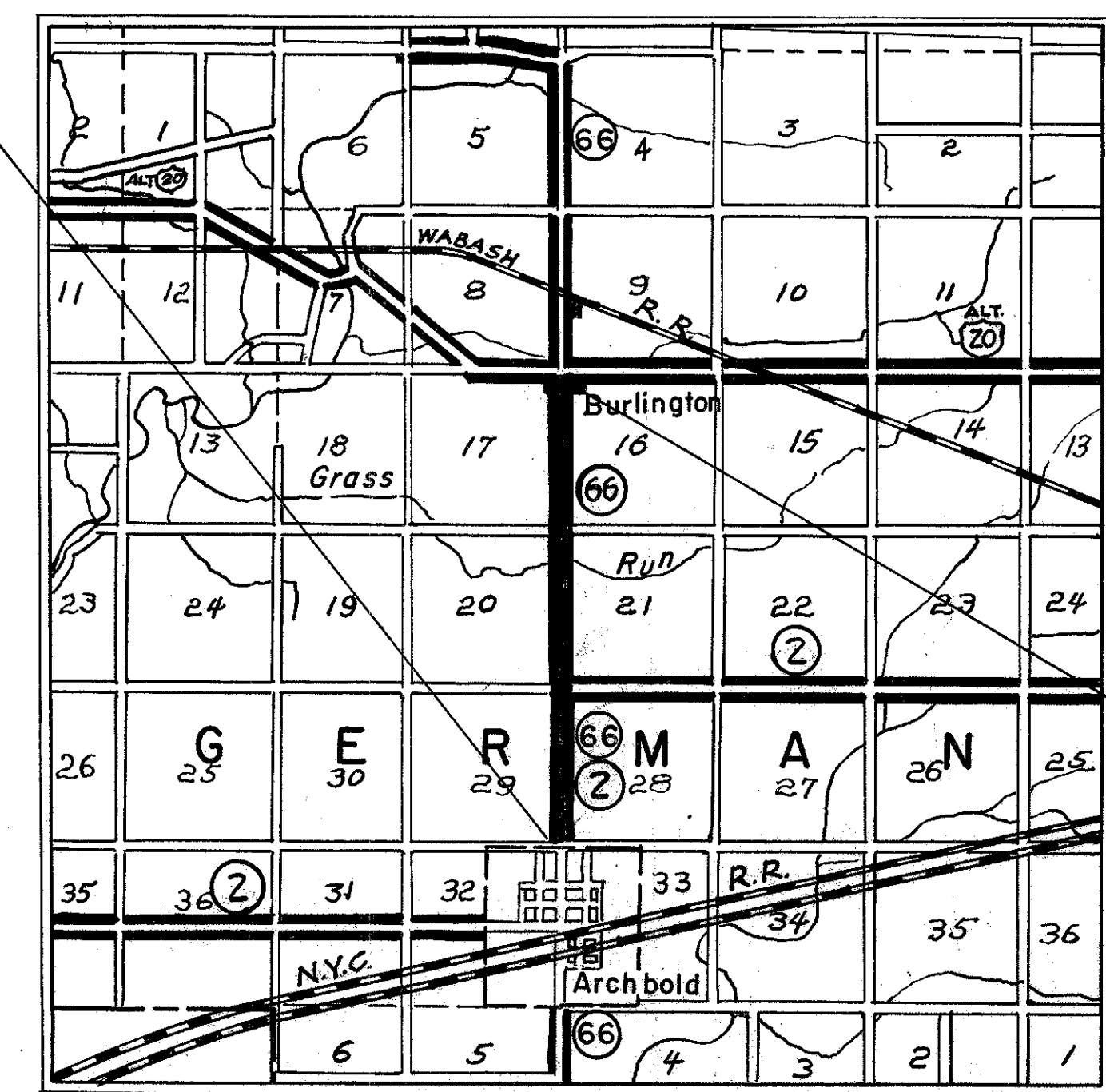
GERMAN TOWNSHIP

FULTON COUNTY
FUL-2-4.36
FUL-66-(3.97-4.97)

- CONVENTIONAL**
- COUNTY LINE
 - TOWNSHIP LINE
 - SECTION LINE
 - CORPORATION LINE
 - FENCE LINE
 - CENTER LINE
 - POLE LINE
 - RAILROADS
 - GUARD RAIL
 - DRAIN PIPE (NEW)
 - DRAIN PIPE (EXISTING)



BEGIN PROJECT
STA. 0+11

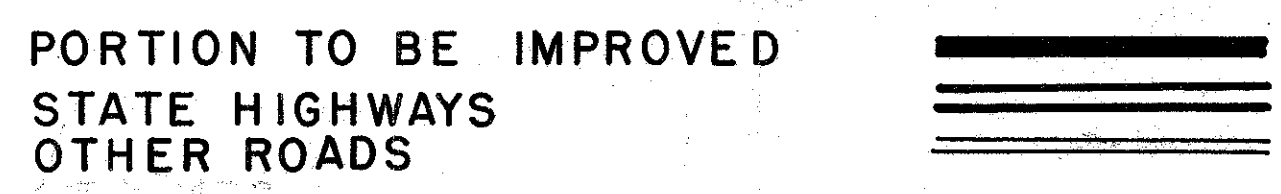


END PROJECT
STA. 157+98.92

DELIVERY POINT - ARCHBOLD AVERAGE HAUL - 2 Miles

LOCATION PLAN

Scale 1" = 800'



SCALES

- PLAN 1" = 50'
- PROFILE HORIZONTAL 1" = 50'
- PROFILE VERTICAL 1" = 5'
- CROSS SECTIONS 1" = 5'

The Standard Specifications of the State of Ohio, Department of Highways, including changes and Supplemental Specifications listed in the proposal shall govern this improvement.

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

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimate.

Approved: Wilford B. Robinson
Date: 8-6-48 Division Deputy Director

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

Approved: J. P. ...
Date: 9-1-48 Chief Engineer, Bureau of Bridges & R.R. Crossings

Approved: ...
Date: 9/2/48 Chief Engineer, Bureau of Location & Design

Approved: ...
Date: 9-2-48 First Asst. Director & Chief Engineer

Approved: Earl L. Reeb
Date: 9-2-48 Director of Highways

INDEX OF SHEETS

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LINE DATA

BEGIN PROJECT STATION 0+11
END PROJECT STATION 157+98.92
GROSS & NET LENGTH OF PROJECT -
15,787.92 Lin. Ft. or 2.990 miles.

BEGINNING OF WORK & PROJECT - STA. 0+11
END OF WORK STATION 159+18.92
LENGTH OF WORK -
15,907.92 Lin. Ft. or 3.012 miles.

SUPPLEMENTAL SPECIFICATIONS	

STANDARD DRAWINGS	
I-12	3-15-48
L-2	10-1-45
L-3	2-1-47
S-27 P.C. 3	2-20-45
I-1, 2, 3, 4 & 5	2-20-45
I-8 C.B. 1-2 A & B	12-15-41
I-8 C.B. No 16	3-1-47
I-15 No 2	2-1-47
SB-1-47	9-18-47
I-15 No 1	3-1-47
I-15 No 4	2-1-47
I-15 No 5	2-1-47
I-15 No 6	2-1-47
I-15 No 7	2-1-47
I-15 No 9	2-1-47

CONSTRUCTION BUREAU
JUN 22 1955
GROUND PHOTOLAB

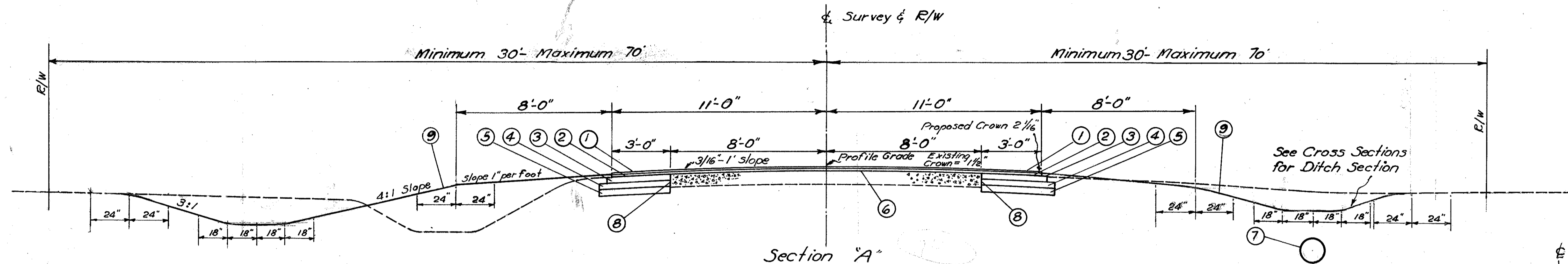
FILE NO	FULTON COUNTY FUL-2-4.36 FUL-66-(3.97-4.97)
SEC	
DATE OF LETTING	
CONTRACT NO	

TYPICAL SECTIONS TYPE T-35

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		1948

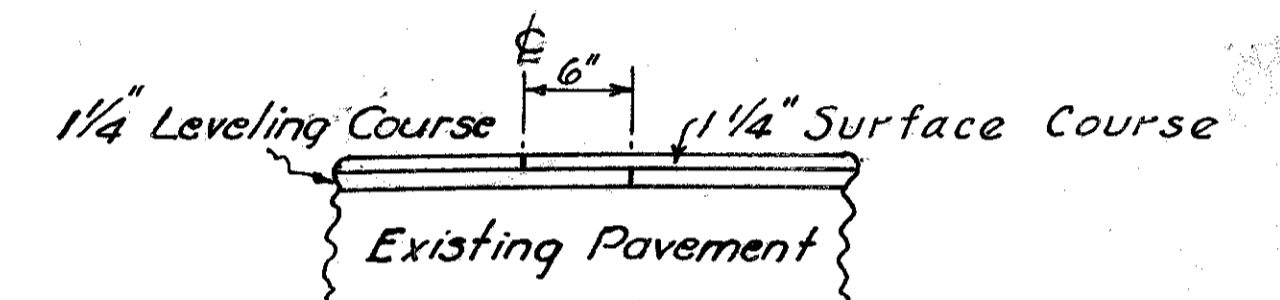
2
41

FULTON COUNTY
FUL-2-436
FUL-66-(3.97-4.97)

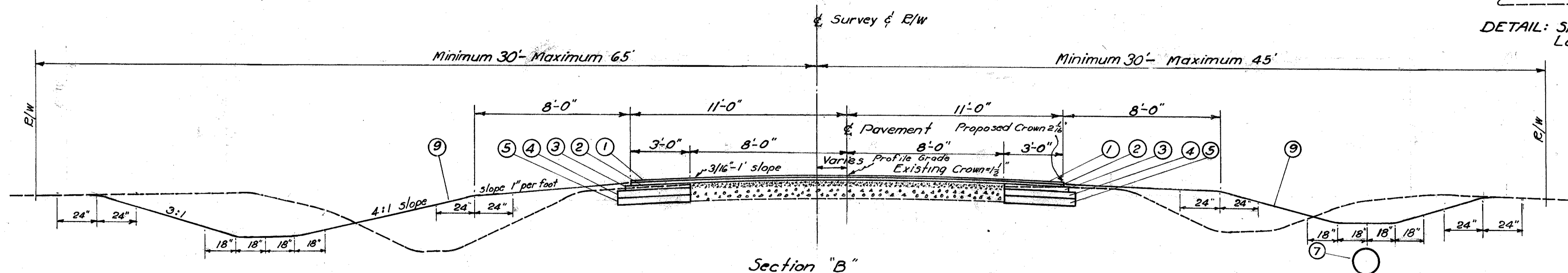


EXISTING PAVEMENT DATA:
8" Reinforced Concrete Pavement, 16' wide.

This Section Applies from Sta. 0+52 to Sta. 49+80 = 4928.00 Lin. Ft.
Sta. 53+49.49 to Sta. 105+28.29 = 5178.80 Lin. Ft.
Total = 10,106.80 Lin. Ft.

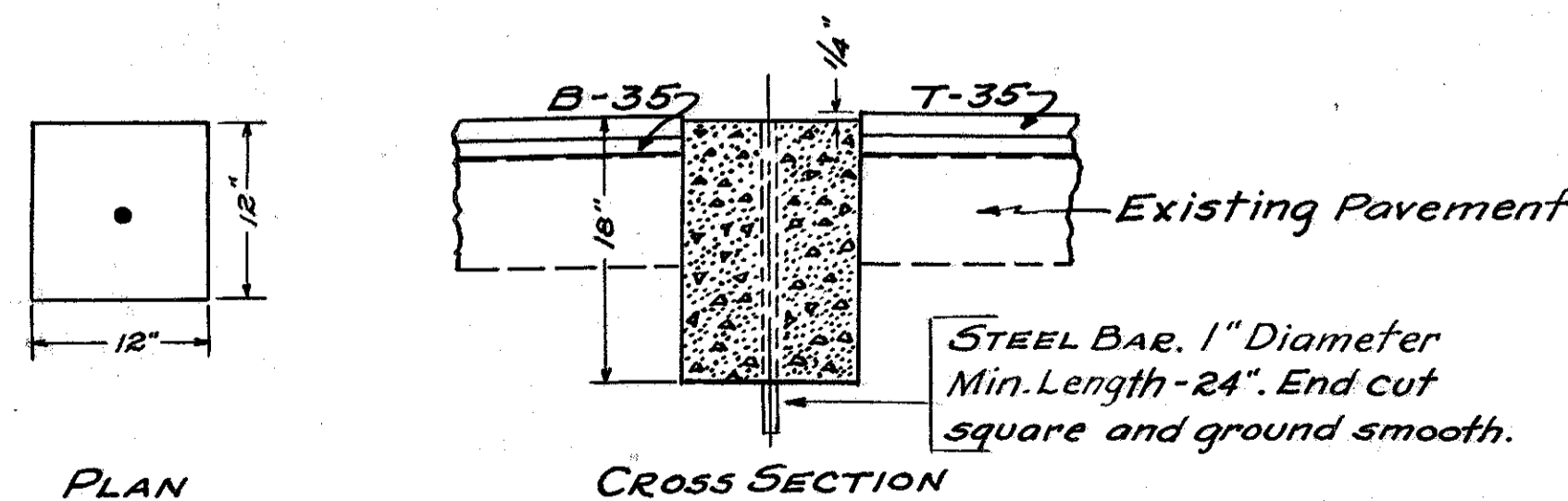


DETAIL: Showing method of lapping Longitudinal Joints.



EXISTING PAVEMENT DATA:
4" Penetration Macadam Top Course with 7" Stone Base, 16' wide.

This Section Applies from Sta. 106+28.29 to Sta. 157+98.92 = 5,170.63 Lin. Ft.



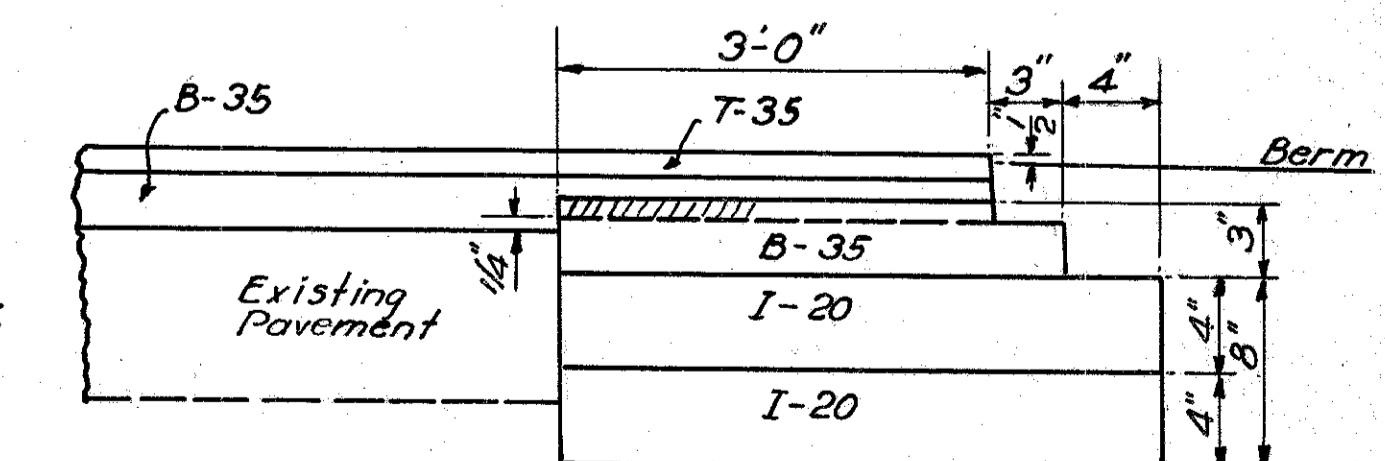
PLAN

CROSS SECTION

DETAIL SHOWING MONUMENTS.

NOTE: Cost of necessary Pavement Removal, furnishing Steel Bar, and Class "C" Concrete is included in the Unit Price for Item I-8 Monuments, As Per Plan.

- ① Item T-35, 1 1/4" Asphaltic Conc. Surface Course, Type "A".
- ② Item B-35, 1 1/4" Minimum Thickness Asphaltic Concrete Leveling Course.
- ③ Item B-35, 3" Asphaltic Concrete Leveling Course.
- ④ Item I-20, 4" Insulation Course (Coarse Graded Type)
- ⑤ Item I-20, 4" Insulation Course (Coarse Graded Type)
- ⑥ Item T-30, Bituminous Tack Coat, using Bituminous Material Sec. M-5.5, M5-1 or M5-3 applied at the rate of 0.10 gal. per Sq. Yd. including Sand Cover.
- ⑦ Item I-3, Roadway Drainage.
- ⑧ Item E-8, Sealing only
- ⑨ Item L-9, Seeding and Protecting. (Type A)



Where the 3 inch leveling course in the widened area would finish more than 1/4 inch above the edge of the existing pavement, that portion below the dashed line shall be placed and compacted in a separate operation. The hatched portion above the dashed line shall be placed simultaneously with the full width leveling course.

EDGE CONSTRUCTION & COURSE DETAIL

PAVEMENT COMPUTATIONS

Length of Typical Section 'A' = 10,106.80 Lin.Ft.
 Length of Typical Section 'B' = 5,170.63 Lin.Ft.
 Length of Both Typical Sections = 15,277.43 Lin.Ft.
 Salvageable Width = 16 Lin.Ft. Average Widening = 6.0 Lin.Ft.
 Total Width = 22.0 Lin.Ft.
 Salvageable Area of Typical Section 'A' = $\frac{10,106.80 \times 16}{9} = 17,967.64$ Sq.Yds.
 Total Area of Typical Section 'A' = $\frac{10,106.80 \times 22}{9} = 24,705.50$ Sq.Yds.
 Total Area of Typical Section 'B' = $\frac{5,170.63 \times 22}{9} = 12,639.31$ Sq.Yds.
 Area of Typical Sections A & B = 37,344.81 Sq.Yds.
 T-35- 1 1/4" Asphaltic Concrete Surface Course, Type 'A':
 From above, total area of Typical Sections A & B = 37,344.81 Sq.Yds.
 Add from Extra Pavement Table = 3,081.00 Sq.Yds.
 Total = 40,425.81 Sq.Yds.
 $\frac{40,425.81 \times 5}{144} = 1,404.00$ Cu.Yds.
 B-35, 1 1/4" Asphaltic Concrete Leveling Course
 Same as T-35 above = 1,404.00 Cu.Yds.
 B-35, 3" Asphaltic Concrete Leveling Course
 Average width = 6'-6" or 6.5 Lin.Ft.
 Length of Typical Sections A & B = 15,277.43 Lin.Ft.
 $\frac{(15,277.43 - 22) \times 6.5}{9}$ (Deduct for Bridge) = 11,017.81 Sq.Yds.
 Add from Extra Pavement Table = 919.00 Sq.Yds.
 Total = 11,936.81 Sq.Yds.
 $\frac{11,936.81 \times 3}{36} = 995.06$ Cu.Yds.
 B-35, 4" Asphaltic Concrete Leveling Course from
 Extra Pavement Table = 48 Sq.Yds $\frac{48 \times 4}{36} = 5.33$ Cu.Yds.
 B-35, Add Extra Leveling Course to remove surface irregularities
 at the rate of 150 Cu.Yds. per mile. $3.013 \times 150 = 451.95$ Cu.Yds.
 B-35 Add B-35 Extra Leveling Material to adjust crown
 at the rate of 50 Cu.Yds. per mile. $3.013 \times 50 = 150.65$ Cu.Yds.
 Total B-35 = 3006.93 Use 3007.00 Cu.Yds.
 I-20, 8" Insulation Course (2-4" Courses) Coarse Graded Type.
 Average width = 3'-7" x 2 sides = 7'-2" or 7.166 Lin.Ft.
 Length of Typical Sections A & B = 15,277.43 Lin.Ft.
 $\frac{(15,277.43 - 22) \times 7.166}{9}$ (Deduct for Bridge) = 12,146.71 Sq.Yds.
 Add from Extra Pavement Table = 960 Sq.Yds.
 Total = 13,106.71 Sq.Yds. Use 13,107 Sq.Yds.
 T-30 Bituminous Tack Coat
 Salvaged Area of Typical Section 'A' = 17,967.64 Sq.Yds.
 Add from Extra Pavement Tables = 1,245.00 Sq.Yds.
 Total = 19,212.64 Sq.Yds.
 $19,212.64 \times 0.10 = 1,921.26$ Use 1,921.00 Gallons.
 I-12 Concrete Curb and Gutter, Type 2
 From Extra Pavement Table = 336.00 Lin.Ft.
 E-8 Sealing (only) Length of Typical Section 'A' = 10,106.80 Lin.Ft.
 $(10,106.80 - 22) \times 2 = 20,169.60$ Lin.Ft.
 Add from Extra Pavement Table = 1,157.00 Lin.Ft.
 Total = 21,326.60 Use 21,327 Lin.Ft.
 L-9 Fertilizer (4-12-4)
 92,167 Sq.Yds Seeding, Type 'A'
 Application = 20 lbs. per 1000 Sq. Ft.
 Therefore $(\frac{92,167 \times 9}{1000}) \times 20 = 2000 = 8.30$ Tons
 B-70 - From Extra Pavement Table Sheet 4 = 10 Sq.Yds.

GENERAL NOTES

PROFILE: The profile of the proposed Surface Course on the existing pavement shall be approximately 2 1/2 inches above that of the existing pavement, unless otherwise shown on the plan and profile sheets.

UTILITIES: All work required to relocate and/or adjust etc. all gas, oil, telephone, telegraph, electric, water or other services to conform to the new grade and alignment shall be completed by the Utilities in question.

FILLING MAJOR DEPRESSIONS: Major depressions in existing pavement shall be filled and compacted with Bituminous Concrete Leveling Material in advance of placing the regular Leveling Course. These depressions shall be filled in layers not to exceed 3 inches in depth when compacted.

TRAFFIC: Traffic shall be maintained at all times. The item of Maintaining Traffic shall include furnishing lights, barricades and watchman to secure flow of Traffic twenty four (24) hours daily.

CONTROL POINTS: Before construction operations begin, the Engineer will reference all existing monuments, railroad spikes, iron bolts, etc. in Survey Line. Upon completion of the surfacing the Engineer will re-check all these control points in the new pavement.

TREE REMOVALS: No trees shall be removed until specifically marked for removal by the Engineer. Particular care shall be taken to protect all trees not marked for removal.

RIPRAP: Suitable material resulting from the removal of Existing Structures, or portions thereof, may be used in the construction of new Riprap, Type "A" (grouted).

CATCH BASINS: The No. 2-2-B Catch Basins shall be modified by omitting the windows as directed by the Engineer. Engineer shall set all grate elevations.

SEEDING AND PROTECTING ROADWAY AREAS: Quantities for Seeding, Item L-9, are calculated for soil areas between R/W line and edge of pavement.

OPTIONAL METHOD OF HOLDING MULCH IN PLACE: The method of tying down the mulching material as shown on Standard Drawing L-3 may be replaced over suitable areas, as directed, by the use of a Seaman Pulvi-Mixer machine or equal, to incorporate the mulching material with the soil. Any area not treated with the machine shall have the mulching material secured by the usual method shown in the Standard Drawing, or by any other method suggested by the Contractor and approved by the Director.

WASTE MATERIAL: Earth waste shall be disposed of within the Right-of-Way limits of the highway in FUL-66-(8.13-8.37-8.94) at the direction of the Engineer and shall be shaped into place by others.

GUARD RAIL: Item I-15, Guard Rail Removed and Stored: All guard rail under this item shall be stored within the right-of-way at the direction of the Engineer for removal by State Forces.

WATER WELL: Existing Well at station 53+14 on the right is located within the limits of the highway, and shall be removed by others.

FINISHING: Portland Cement Concrete Base Course may be finished by hand methods in accordance with Sections B-71.211 and T-71.211.

ITEM E-8 SEALING ONLY: In addition to the requirements of Sec. E-8.04 Sealing Joints, edges of Concrete Pavement to be sealed shall be thoroughly cleaned before applying the sealing agent.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		1948

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FULTON COUNTY
 FUL-2-4.36
 FUL-66-(3.97-4.97)

GENERAL SUMMARY

ITEM	QUANTITY	UNIT	DESCRIPTION
➤ ROADWAY ➤			
E-1	19,424	Cu.Yds.	Roadway Excavation.
E-8	10	Sq.Yds.	Removal and Disposal of Existing Pavement.
E-8	48	Sq.Yds.	Removal and Disposal of Existing Wearing Course.
E-8	21,327	Lin.Ft.	Sealing only
E-9	10	Each	Removal of Trees and Stumps.
E-11	80	M.Gals.	Water.
I-3	108	Lin.Ft.	8" Pipe for Roadway Drainage under Pavement
I-1	312	Lin.Ft.	12" Pipe for Driveways.
I-1	24	Lin.Ft.	15" Pipe for Driveways.
I-8	6	Each	Monuments, as per plan.
I-3	568	Lin.Ft.	8" Pipe for Roadway Drainage.
I-3	183	Lin.Ft.	10" Pipe for Roadway Drainage.
I-3	21	Lin.Ft.	12" Pipe for Roadway Drainage.
I-3	40	Lin.Ft.	8" C.M.P. for Roadway Drainage Outlets
I-5	1	Each	8" Pipe, Special, for Roadway Drainage
I-5	6	Each	12" Pipe, Special, for Roadway Drainage
I-8	1	Each	Standard No. 6 Catch Basin.
I-8	13	Each	Standard No. 1-2-B Catch Basin.
I-8	6	Each	Standard No. 2-2-B Catch Basins, Modified as per plan.
I-10	83	Sq.Yds.	Riprap, Type "A". (Grouted)
I-15	872	Lin.Ft.	Guard Rail Removed & Stored
I-16	10	Each	Catch Basins Abandoned.
I-17	221	Cu.Yds.	Side Approaches, Mail Box Turnouts and Berm Material.
L-9	92,167	Sq.Yds.	Seeding and Protecting, Type "A"
L-9	8.30	Tons	Commercial Fertilizer (4-12-4)
I-15	31	Lin.Ft.	Guard Rail, Steel Beam Type (Deep)
➤ PAVEMENT ➤			
T-35	1404	Cu.Yds.	Asphaltic Concrete Surface Course, Type "A". (10-80)
B-35	3007	Cu.Yds.	Asphaltic Concrete Leveling Course (10-80)
T-30	1921	Gal.	Bituminous Tack Coat Sec. M-5.5 MS-1 or MS-3
I-20	13,107	Sq.Yds.	8" Insulation Course (2-4" Courses)
I-12	336	Lin.Ft.	Concrete Curb and Gutter, Type 2.
B-70	10	Sq.Yds.	8" Portland Cement Concrete Base Course
➤ STRUCTURES - 20 FT. SPAN & UNDER			
S-1	22	Cu.Yds.	Concrete for Structures - Class "E"
S-1	44	Cu.Yds.	Concrete for Structures - Class "C"
S-3	93	Sq.Yds.	Waterproofing, Type "C"
S-4	6362	Pounds	Reinforcing Steel
S-9	17	Sq.Ft.	1/4" Bituminous Premoulded Expansion Joint Material.
S-14	48	Lin.Ft.	Bridge Bailing (Steel Beam)
S-22	22	Cu.Yds.	Removal of Portions of Existing Structures.
S-27	33	Lin.Ft.	12" Pipe for Roadway Culverts.
S-27	63	Lin.Ft.	15" Pipe for Roadway Culverts.
S-27	40	Lin.Ft.	30" Pipe for Roadway Culverts.
S-29	22	Cu.Yds.	Porous Backfill
E-2	196	Cu.Yds.	Excavation for Structures.
E-3	92	Cu.Yds.	Channel Excavation.

FULTON COUNTY
FUL-2-(4.36)
FUL-66-(3.97-4.97)

SIDE APPROACHES

SHEET No.	STATION	SIDE	I-17, AGGREGATE - CUBIC YDS.			I-1 PIPE FOR DRIVES		I-2		
			MAIL BOX AND DRIVE COMBINED	MAIL BOXES ONLY	PRIVATE DRIVES ONLY	12"	15"			
5	2+20	L	8.8							
6	10+82	L				24				
6	14+92	L				24				
7	24+82	R			5.0					
7	25+80	L		6.5						
7	26+32	R			5.0					
8	32+97	L	11.4				24			
9	43+51	L		6.5						
9	43+78	R			6.9	24				
9	46+51	L	10.6							
10	54+59	L				24				
10	55+39	R			6.9	24				
11	65+87	L				24				
11	67+27	L				24				
12	72+68	L		6.5						
12	72+72	R			6.9					
12	79+35	L				24				
13	83+25	R			6.9	24				
13	88+01	R				24				
13	92+18	L			6.9					
14	94+12	L			6.9	24				
14	95+96	L	11.4			24				
15	106+75	R		6.5						
15	107+12	L			5.					
15	108+34	L			5.					
15	113+32	R	12.3							
16	125+20	L			7.4					
16	125+30	R		6.5						
18	138+36	R	11.4							
18	144+20	L				24				
18	147+68	R	9.5							
19	152+88	R	9.5							
19	154+84	R			11.0					
19	155+51	L			5.0					
19	156+17	L			5.0					
19	156+38	R			4.3					
19	156+50	R			4.3					
19	157+64	L			5.0					
Sub Totals			84.9	32.5	103.40	312	24			
From Structure Table										
Totals to Summary			221			312	24			

ROADWAY DRAINAGE

SHEET No.	STATION		SIDE	I-3 PIPE FOR ROADWAY DRAINAGE		I-5 PIPE SPECIALS	I-8 CATCH BASINS		I-16 Catch Basins Abandoned Each	I-3 Pipe Under Pavt 8" Lin. Ft.	B-70 Pavt Replacement 8" Thick Sq. Yds.	E-8 Pavt Removal Sq. Yds.					
	From	To		8"	10" 12"		I-2B	I-2B									
8	36+00	36+25	Lt.	24													
8	37+00		Lt.	9		1											
8	38+00		Rt.	9		1											
9	47+73		Lt.	6		1			1								
10	53+30		Lt.	9		1		2									
10	52+20	53+30	Rt.					2		1	108	5 5					
13	92+00	92+49	Lt.	48													
13	92+00	92+49	Rt.	48													
13	92+66	93+00	Lt.	33													
13	92+69	93+00	Rt.	30													
15	105+58	109+87	Lt.	36						1							
17	129+74		Lt.	24		1											
18	144+07		Rt.	9		1				1							
19	150+00	154+71	Lt.	448	21			1	1								
19	151+53		Rt.	6		1				1							
19	154+15		Rt.	6				1		1							
19	158+892		Lt.	6						1							
Subtotals				568	183	21	1	5	1	1	12	6	1	8	108	5	5
From Structure Table							21				1			2		5	5
Totals to Summary				568	183	21	22	5	1	1	13	6	1	10	108	10	10

GUARD RAIL REMOVAL

Sheet No.	STATION	SIDE	I-15 GUARD RAIL REMOVED AND STORED
	From	To	Lin. Ft.
15-16	109+38	118+10	Left 872
Totals to Summary 872			

GUARD RAIL

SHEET No.	I-15 GUARD RAIL STEEL BEAM TYPE (DEEP)
	Lin. Ft.
13	31.00
TOTAL	31.00

EXTRA PAVEMENT

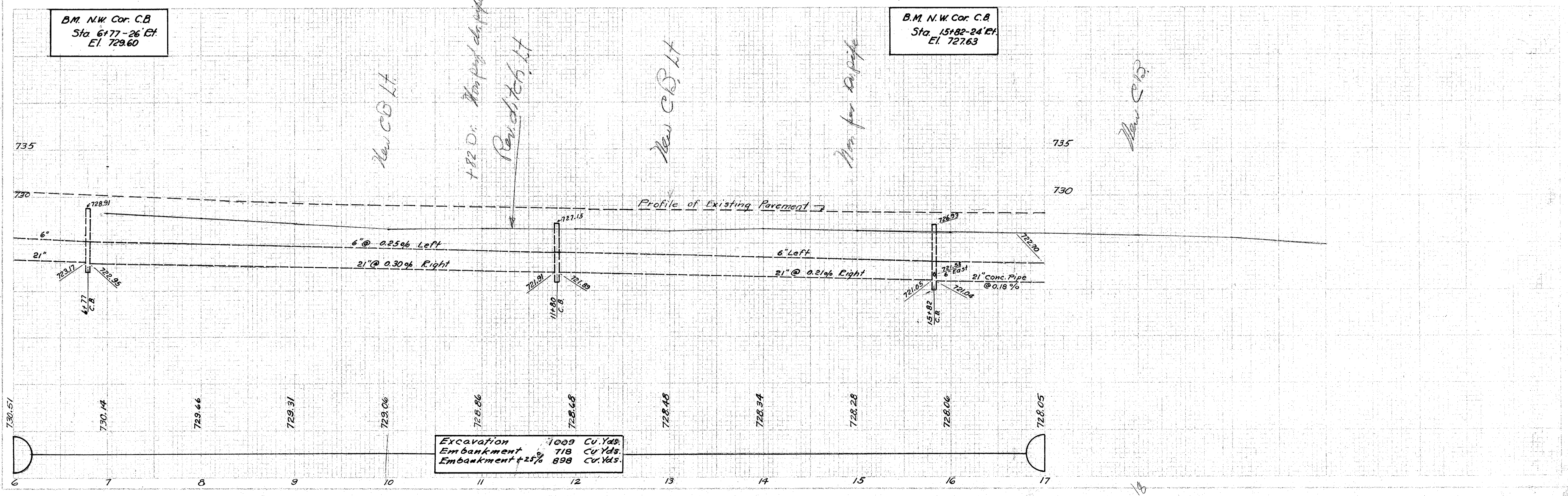
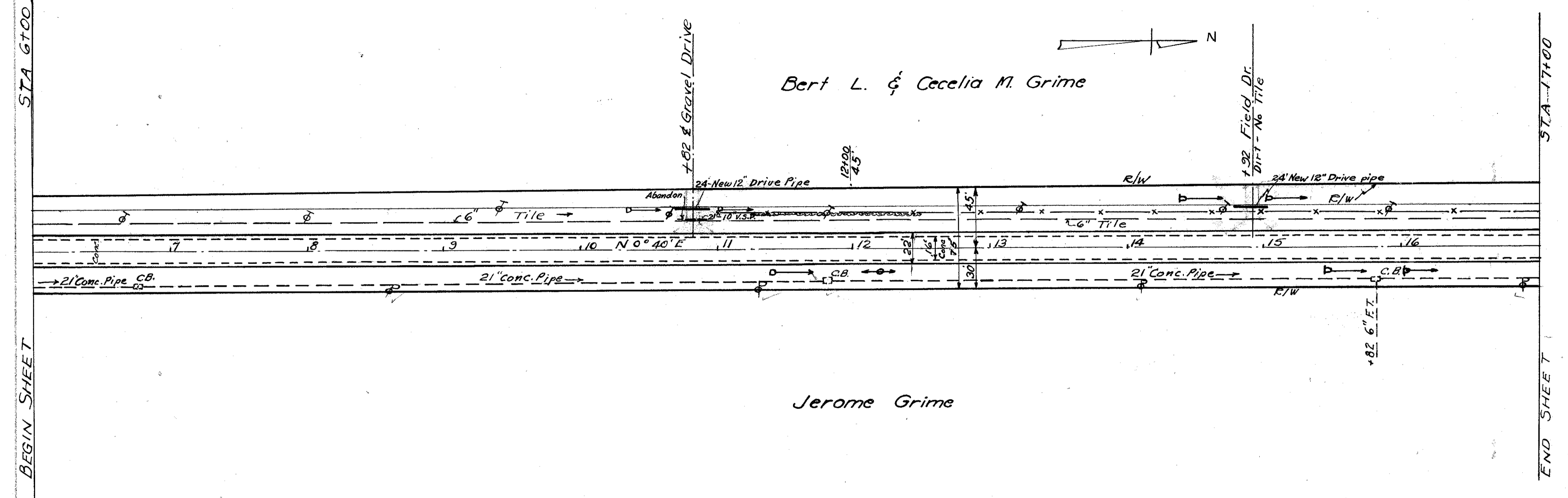
SHEET No.	STATION		T-35	B-35	B-35	B-35	I-20	E-8	T-30	I-12
	FROM	TO	1 1/4"	1 1/4"	3"	4"	8" (2-4" COURSES)	SEALING (Only)	COAT	TYPE 2 CURB & GUTTER
			Sq. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Lin. Ft.	Sq. Yds.	Lin. Ft.
5	0+11	0+52	185	185	72		74	134	116	
9-10	49+80	53+99.9	1484	1484	362		386	666	1040	79
15	105+28.92	106+28.92	575	575	404		413	100	89	
19	157+98.92	159+18.92	798	798	81		87	257		257
Sub Totals										
From Structure Table			39	39		48.0				
Totals to Summary										
Totals to Pavement Comp.			3081	3081	919	48.0	960	1157	1245	336

SEEDING

SHEET No.	STATION		L-9 Seeding and Protecting Type A
	FROM	TO	Sq. Yds.
20	0+11	8+00	2184
21	9+00	18+00	3895
22	19+00	28+00	3912
23	29+00	38+00	4322
24	39+00	48+00	6319
25	49+00	56+00	4461
26	57+00	66+00	6427
27	67+00	76+00	6293
28	77+00	87+00	6963
29	88+00	97+00	6298
30	98+00	109+00	6927
31	110+00	117+44.5	8318
32	118+00	127+00	6150
33	128+00	137+00	6330
34	138+00	147+00	6325
35	148+00	155+00	5059
36	156+00	158+58.92	1984
Total to Summary 92,167			

STRUCTURES - 20 FT. SPAN & UNDER

Sheet No.	Station	Side	E-2 Excavation for Structures Cu. Yds.	E-3 Channel Excavation Cu. Yds.	E-8 Removal and Disposal of Ex. Pavement Course Sq. Yds.	E-8 Removal and Disposal of Ex. Wearing Course Sq. Yds.	I-3 8" C.M.P. for Roadway Drain. Outlets Lin. Ft.	I-8 Catch Basins Each	I-10 Rip-Rap Type "A" Grouted Sq. Yds.	S-14 Railing Lin. Ft.	I-16 Catch Basins Abandoned Each	S-1 Concrete for Structures Class "E" Cu. Yds.	S-1 Concrete for Structures Class "C" Cu. Yds.	S-3 Water Proofing Type "C" Sq. Yds.	S-4 Reinforcing Steel Pounds	S-9 1" Bituminous Pre-molded Ex. Joint Material Sq. Ft.	S-22 Removal of Portions of Ex. Structures Cu. Yds.	S-27 Pipe for Roadway Culverts - Lin. Ft.	S-29 Porous Backfill Cu. Yds.	T-35 1 1/4" Sq. Yds.	B-35 1 1/4" Sq. Yds.	B-35 4" Sq. Yds.	B-70 Pavt Replacement 8" Thick Sq. Yds.	
13	92+56	Rt. & Lt.	143.0	92	48		40			4.8		22	44	93	6362	17	19.0		22	39	39	48		
15	109+85	Rt.	3.7						8								0.34	15						
15	109+85	Lt.	3.6					35									0.36	18						
16	117+44.5	Rt.	10.8					12									0.88							
16	117+44.5	Lt.	16.7					20									0.52	16						
17	129+24	Rt. & Lt.	18.0		5			8			2						0.00	63						5
Totals to Side Appr.																								
Totals to Roadway Drainage					5						2						2.1							5
Totals to Extra Pavement											2													
Totals to Summary			195.8	92	48		40		83	48		22	44	93	6362	17		33	63	40	22			

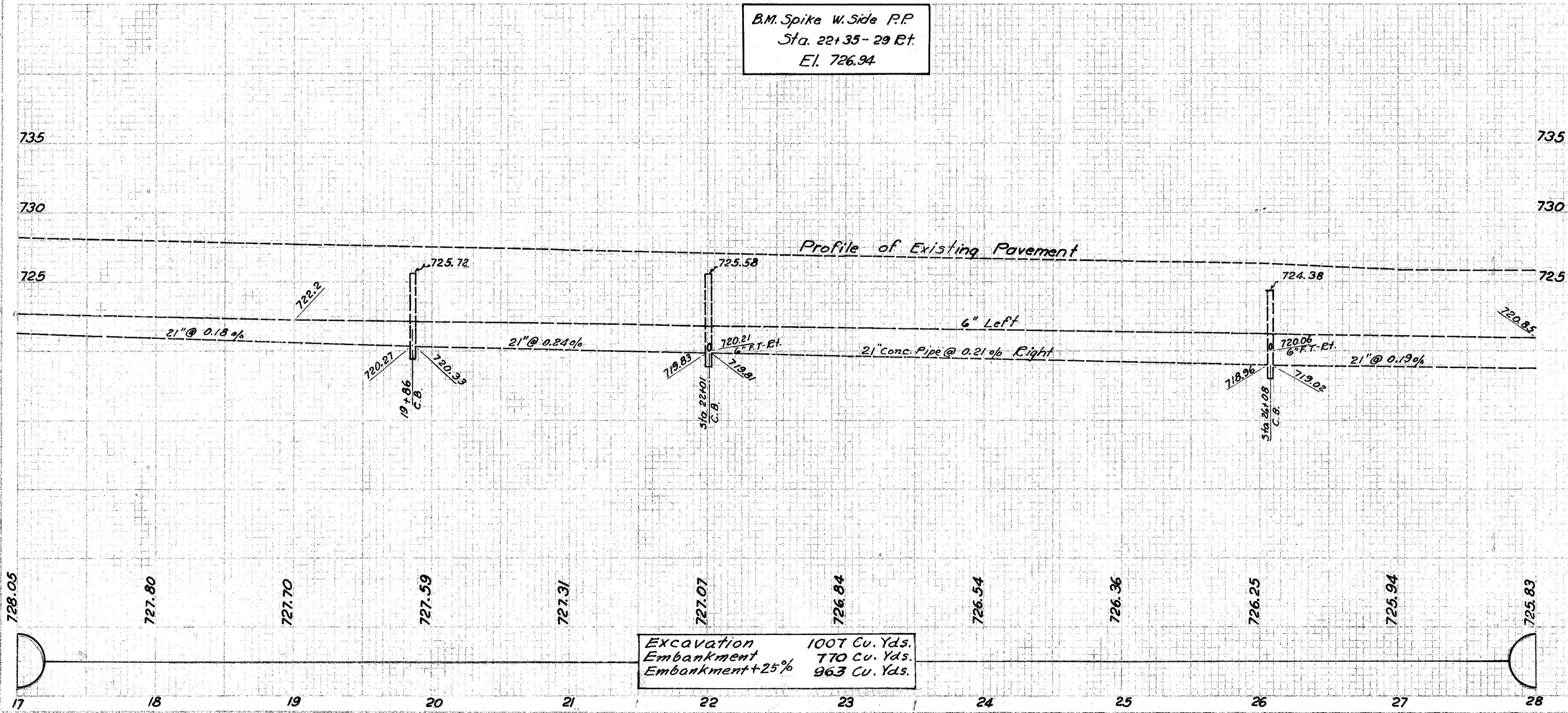
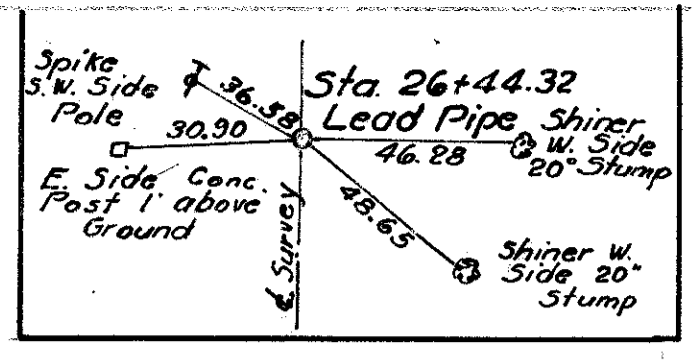
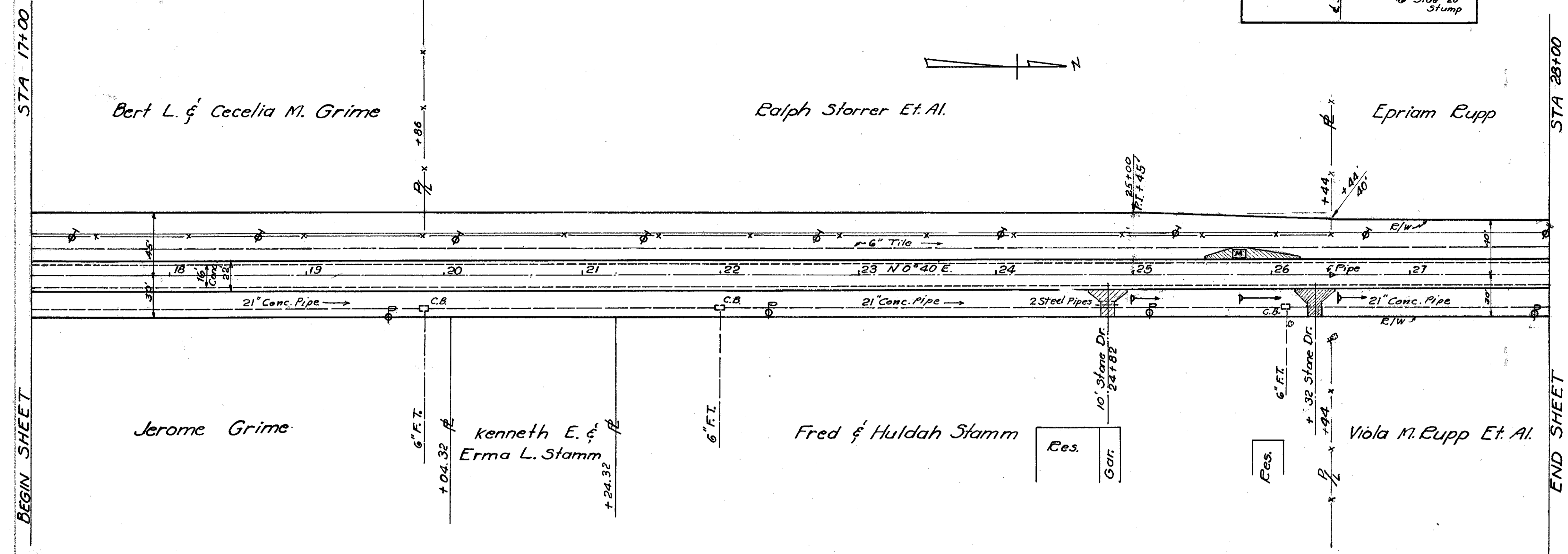


B.M. N.W. Cor. C.B.
Sta. 6+77-26 Et.
El. 729.60

B.M. N.W. Cor. C.B.
Sta. 15+82-24' Et.
El. 727.63

Excavation 1009 Cu. Yds.
Embankment 718 Cu. Yds.
Embankment +25% 898 Cu. Yds.

FULTON COUNTY
FUL-2-4.36
FUL-66-(3.97-4.97)



FULTON COUNTY
FUL-2-4.36.
FUL-66-(3.97-4.97.)

PLATE PIPE ARCH (FU-2-50)

SPAN: 123"x77" Rise
LOADING: H-15
CLEAR ROADWAY-34'
SKEW-30° Right Fwd.
PIPE LENGTH = 66'
LENGTH NORMAL TO ROAD = 56'
Pipe End Beveled 1 1/2 to 1- to conform to slope.

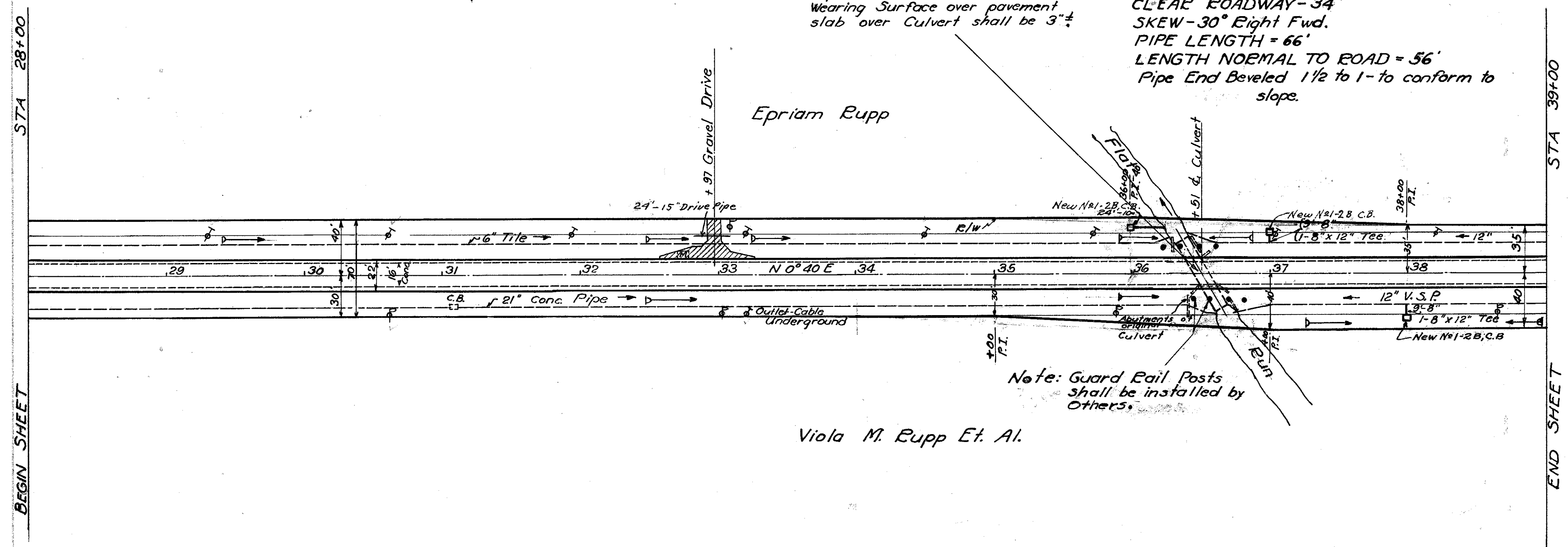


Depth of Bituminous Concrete Wearing Surface over pavement slab over Culvert shall be 3"±

Epriam Rupp

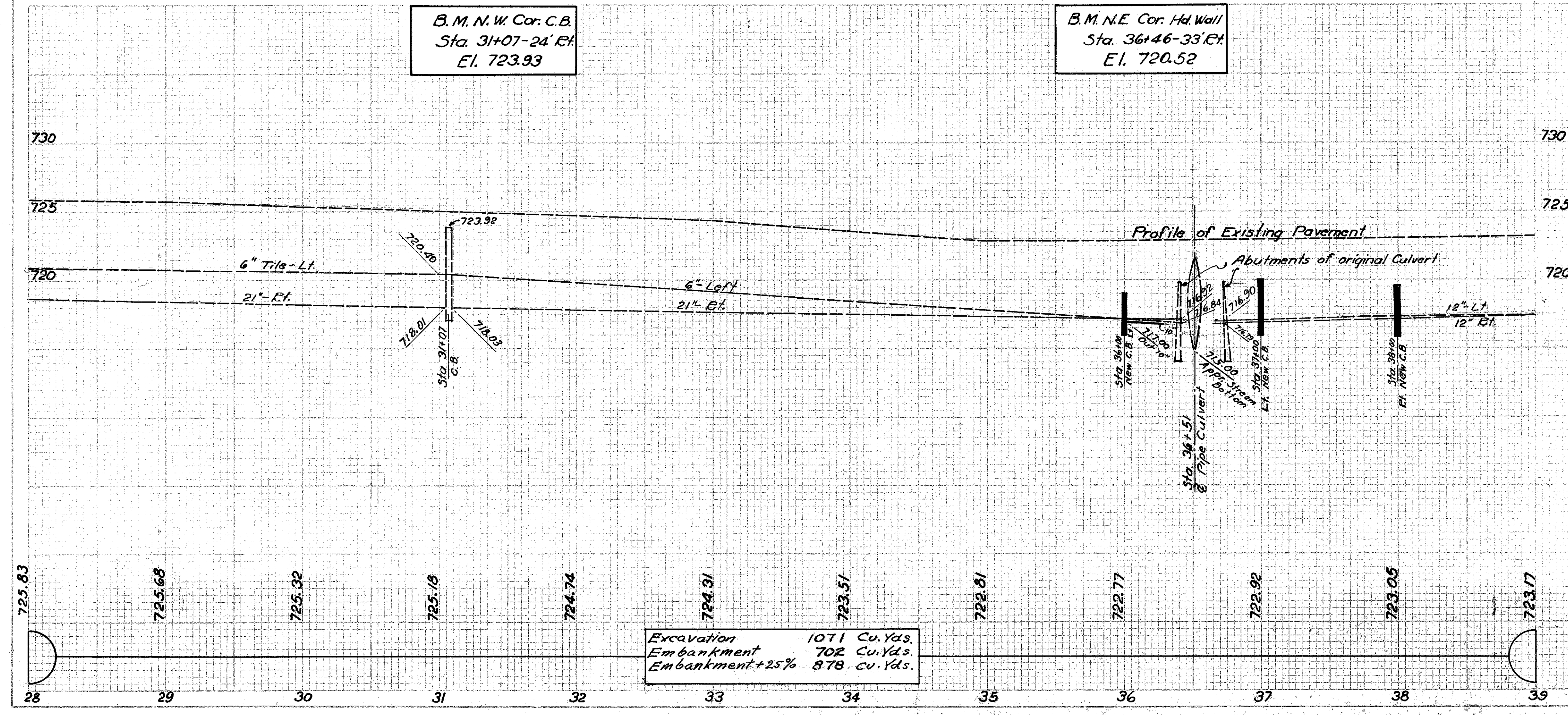
Note: Guard Rail Posts shall be installed by Others.

Viola M. Rupp Et. Al.

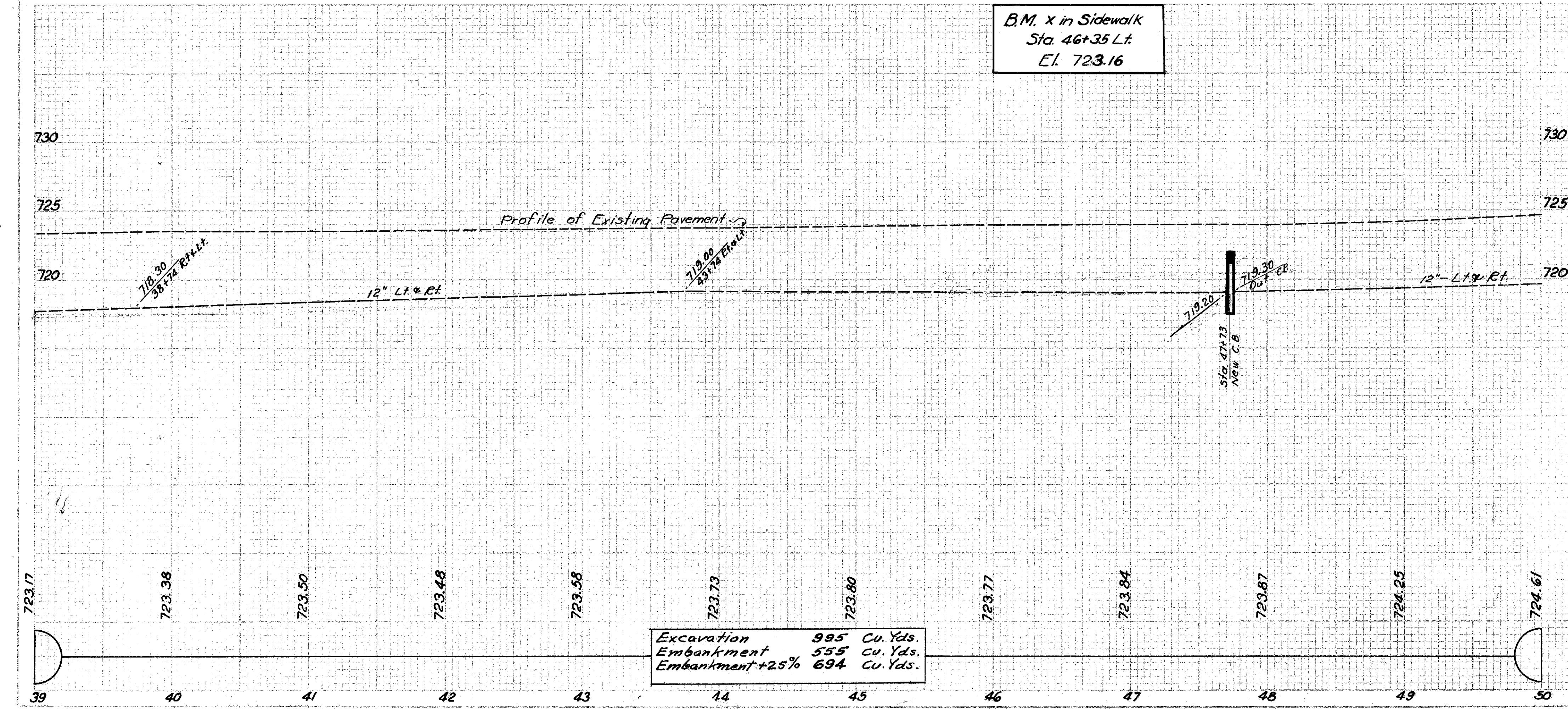
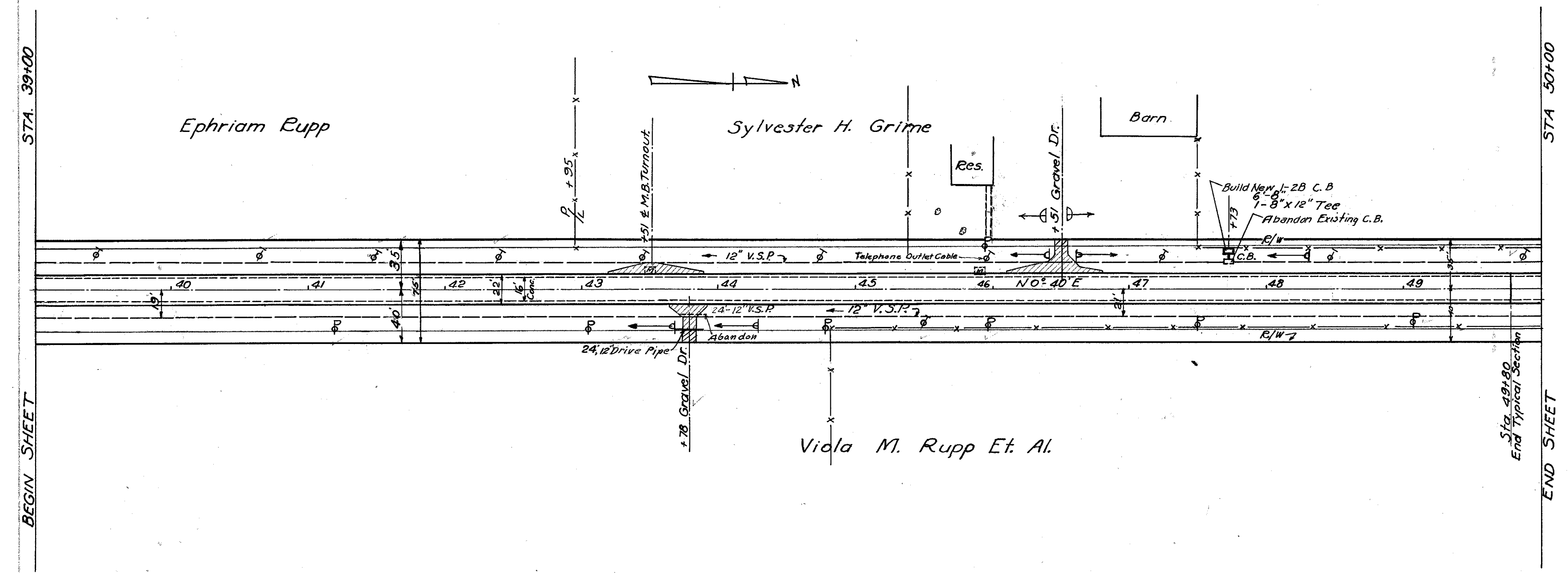


B. M. N. W. Cor. C.B.
Sta. 31+07-24' R/L
El. 723.93

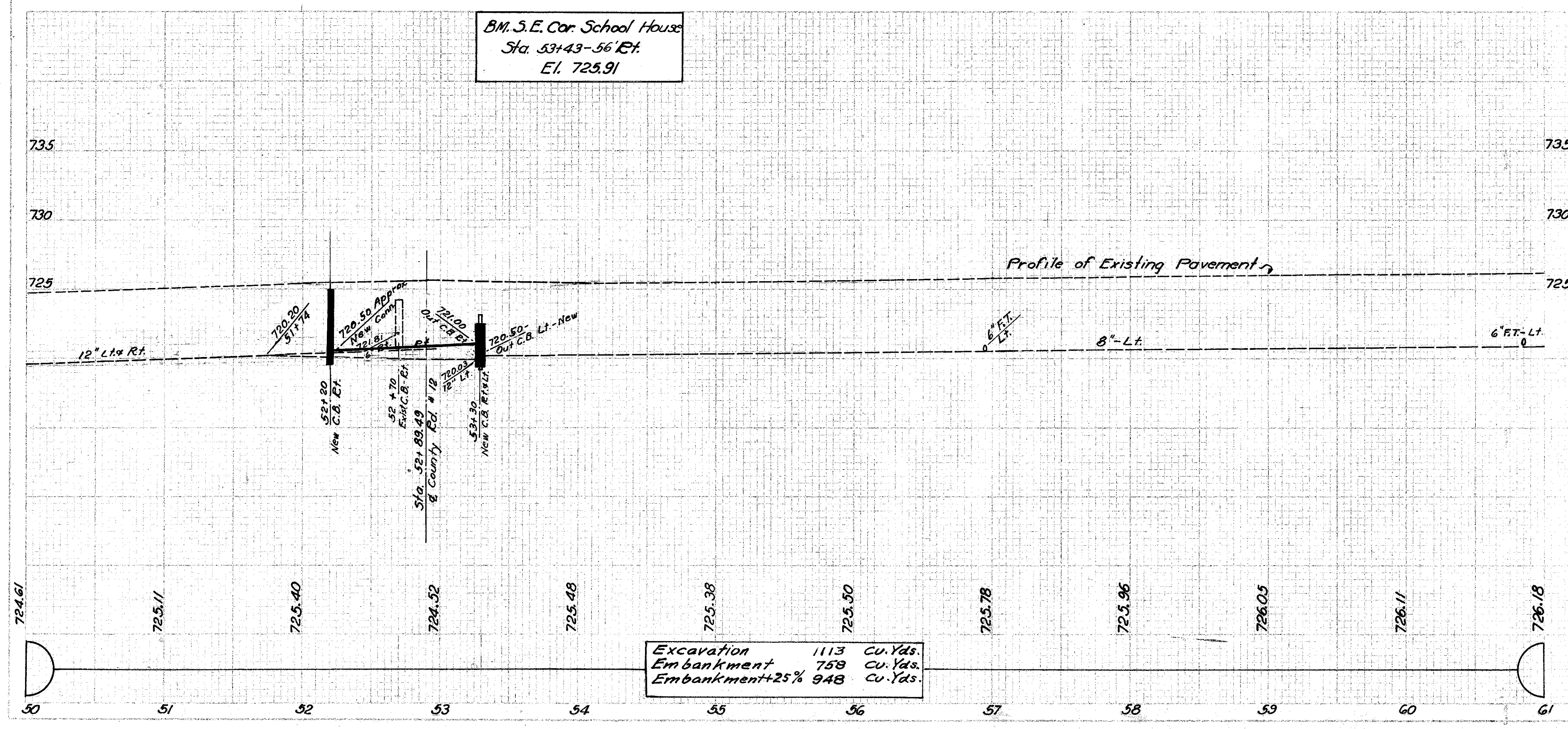
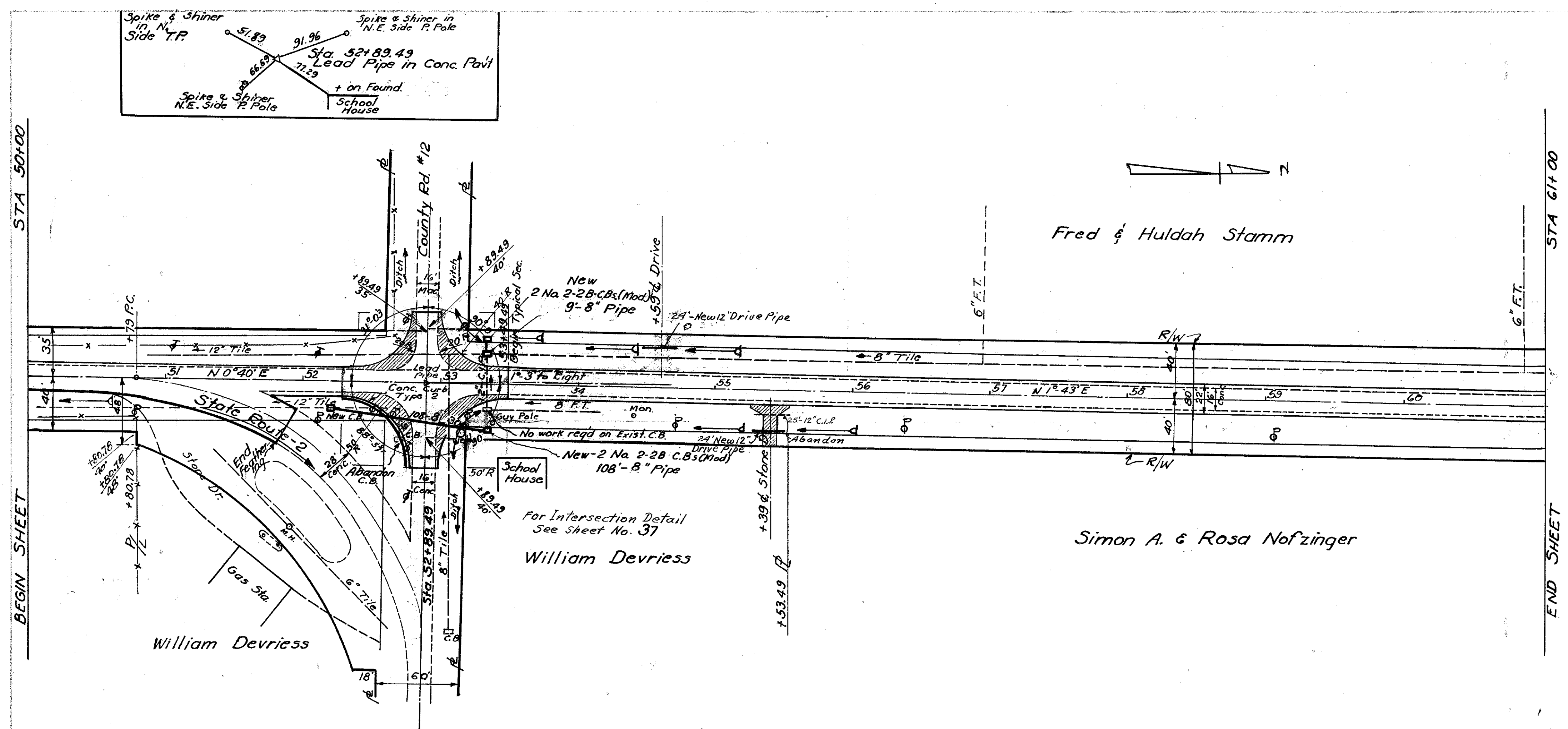
B. M. N. E. Cor. Hd. Wall
Sta. 36+46-33' R/L
El. 720.52



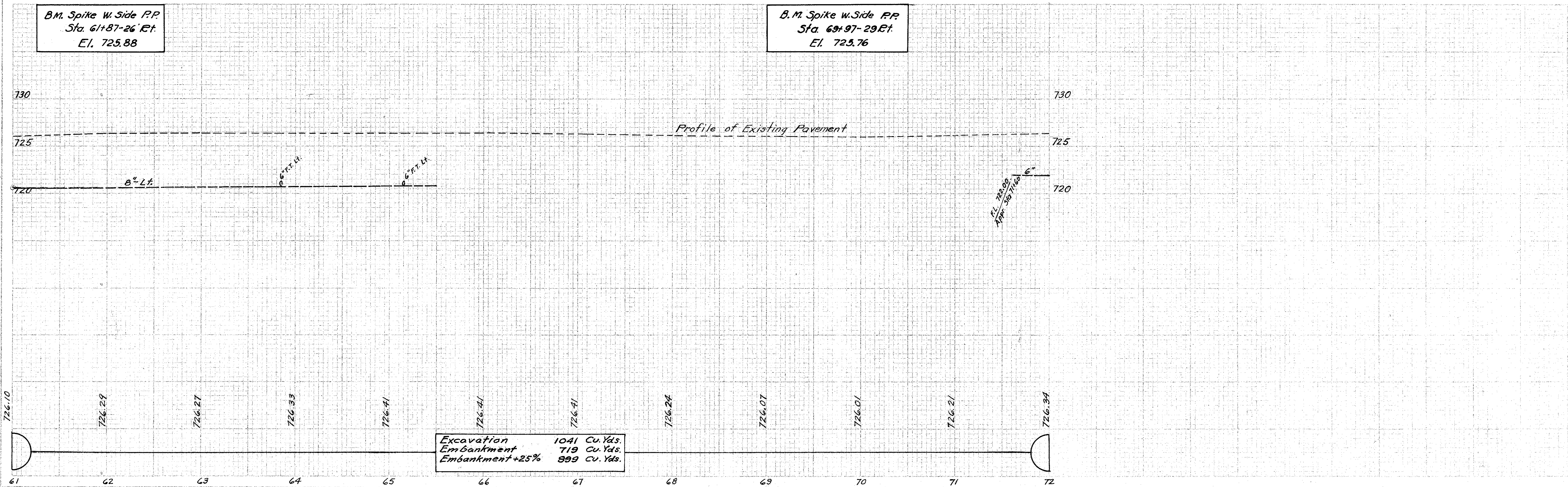
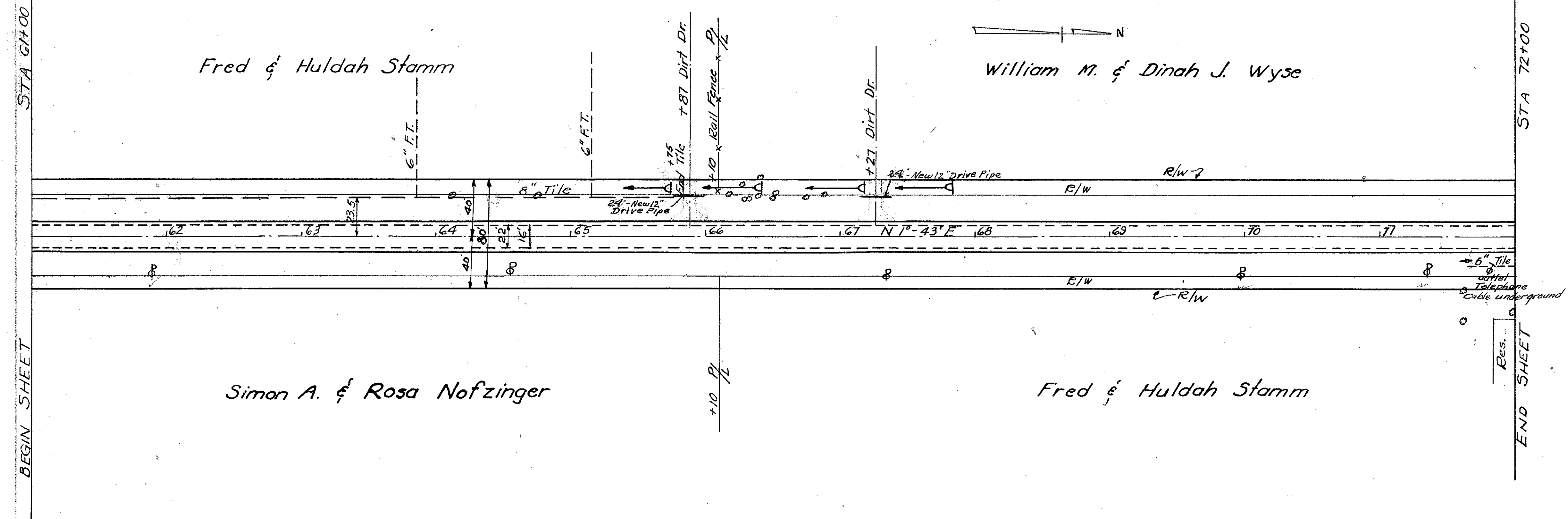
Excavation 1071 Cu. Yds.
Embankment 702 Cu. Yds.
Embankment +25% 878 Cu. Yds.



FULTON COUNTY
 FUL-2-436
 FUL-66-(3.97-4.97)



FULTON COUNTY
 FUL-2-4.36
 FUL-66-(3.97-4.97)



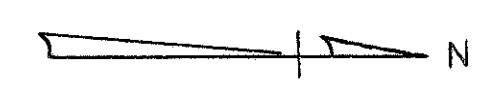
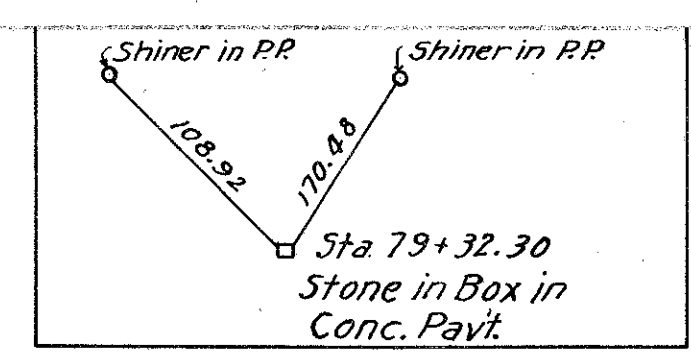
B.M. Spike W. Side P.P.
 Sta. 61+87-26' Et.
 El. 725.88

B.M. Spike W. Side P.P.
 Sta. 69+97-29' Et.
 El. 725.76

Profile of Existing Pavement

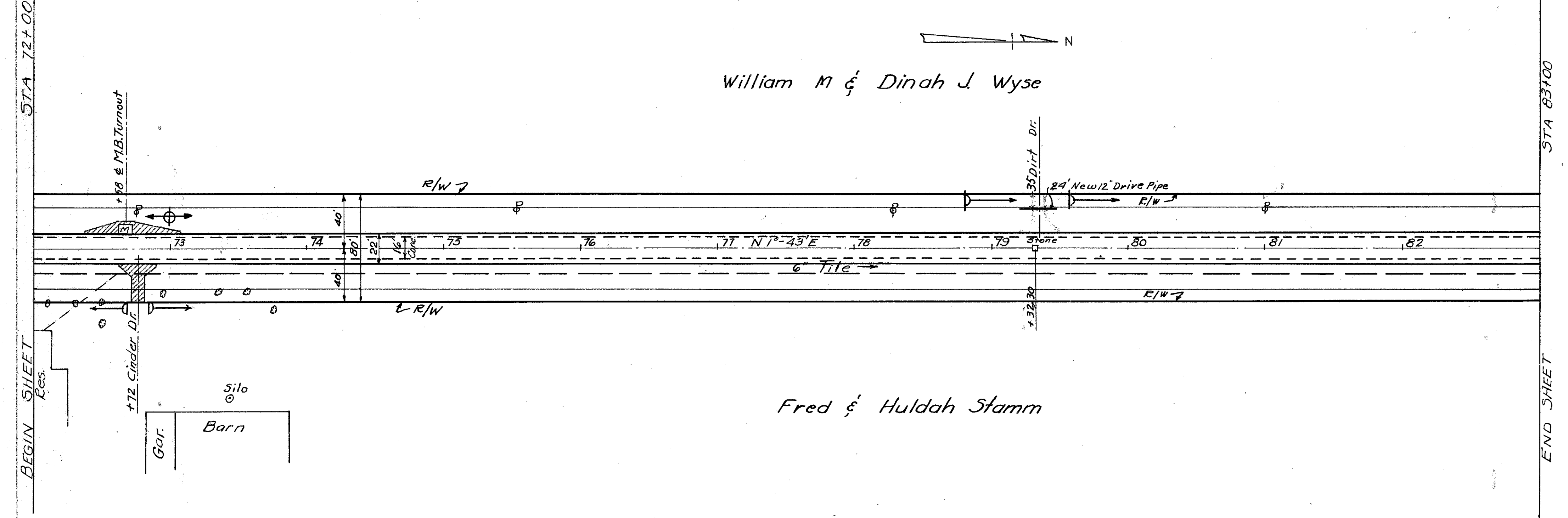
Excavation 1041 Cu. Yds.
 Embankment 719 Cu. Yds.
 Embankment +25% 899 Cu. Yds.

FULTON COUNTY
 FUL-2-4.36.
 FUL-66-(3.97-4.97.)

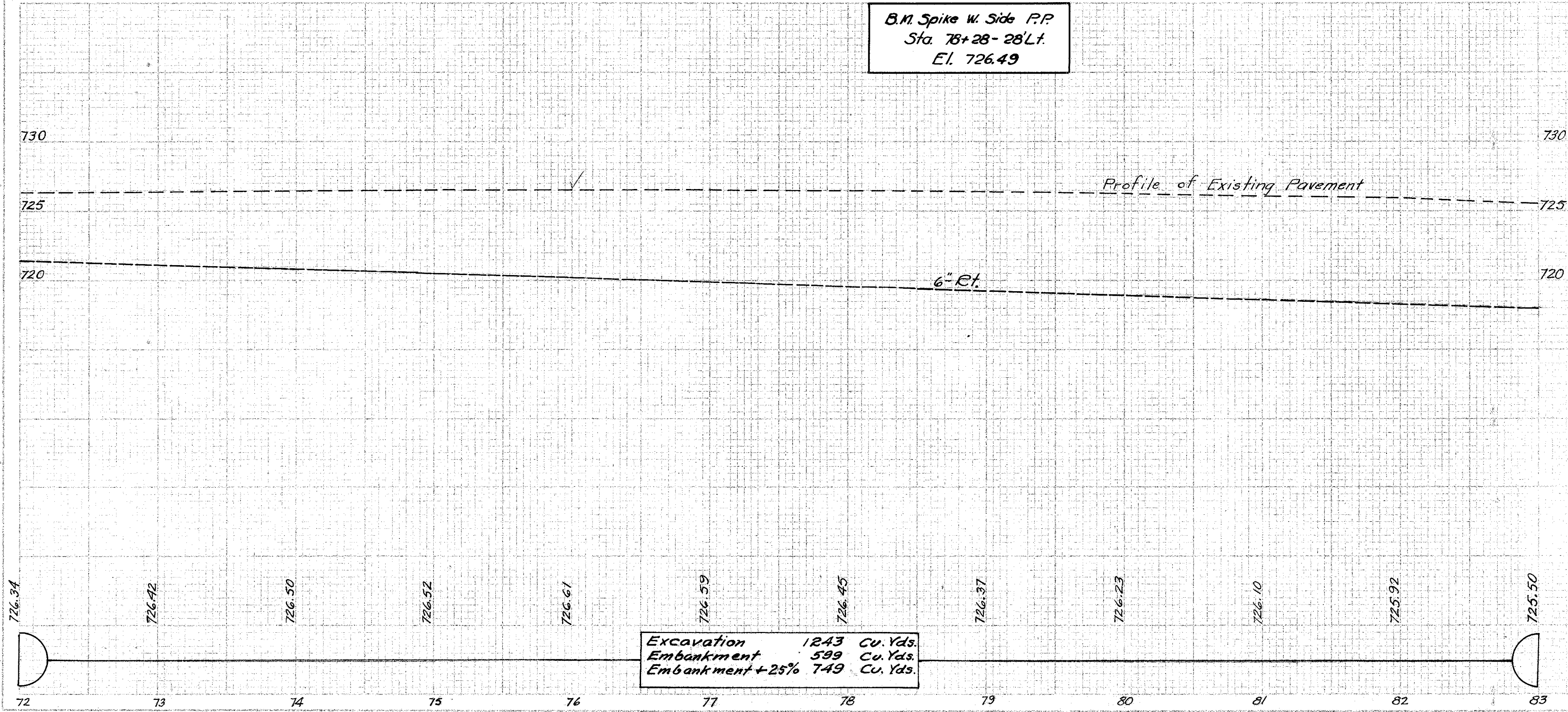


William M & Dinah J Wyse

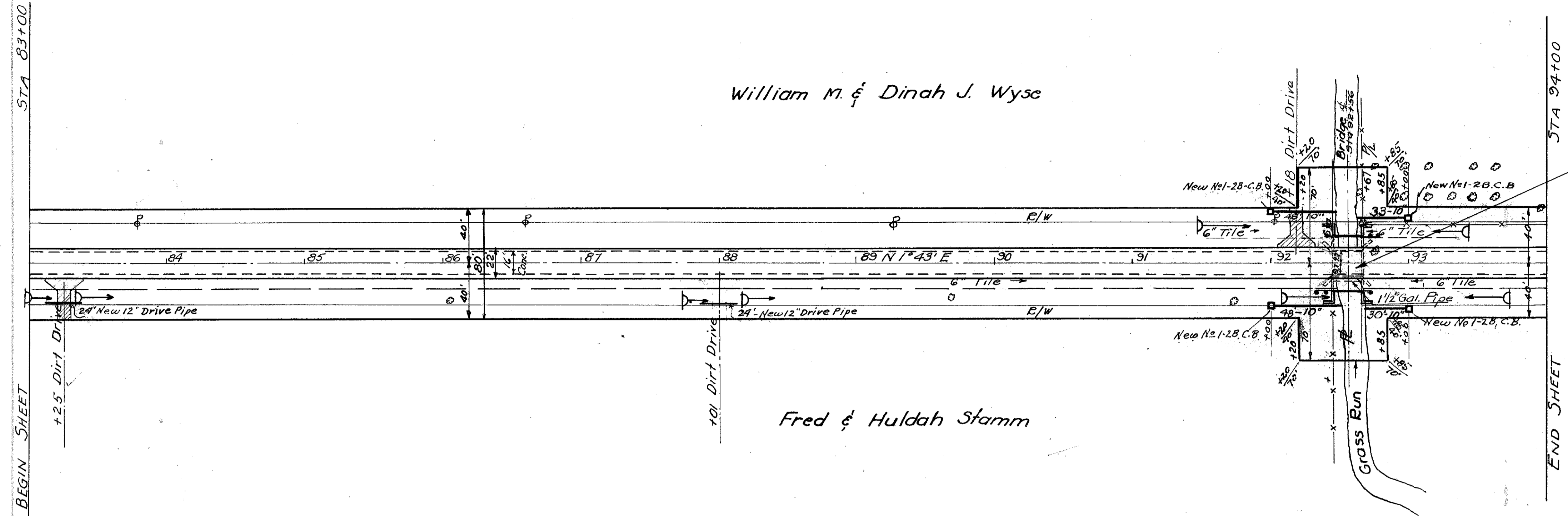
Fred & Huldah Stamm



B.M. Spike w. Side P.P.
 Sta. 78+28-28' L.T.
 El. 726.49



FULTON COUNTY
 FUL - 2 - 4.36'
 FUL - 66 - (3.97-4.97)



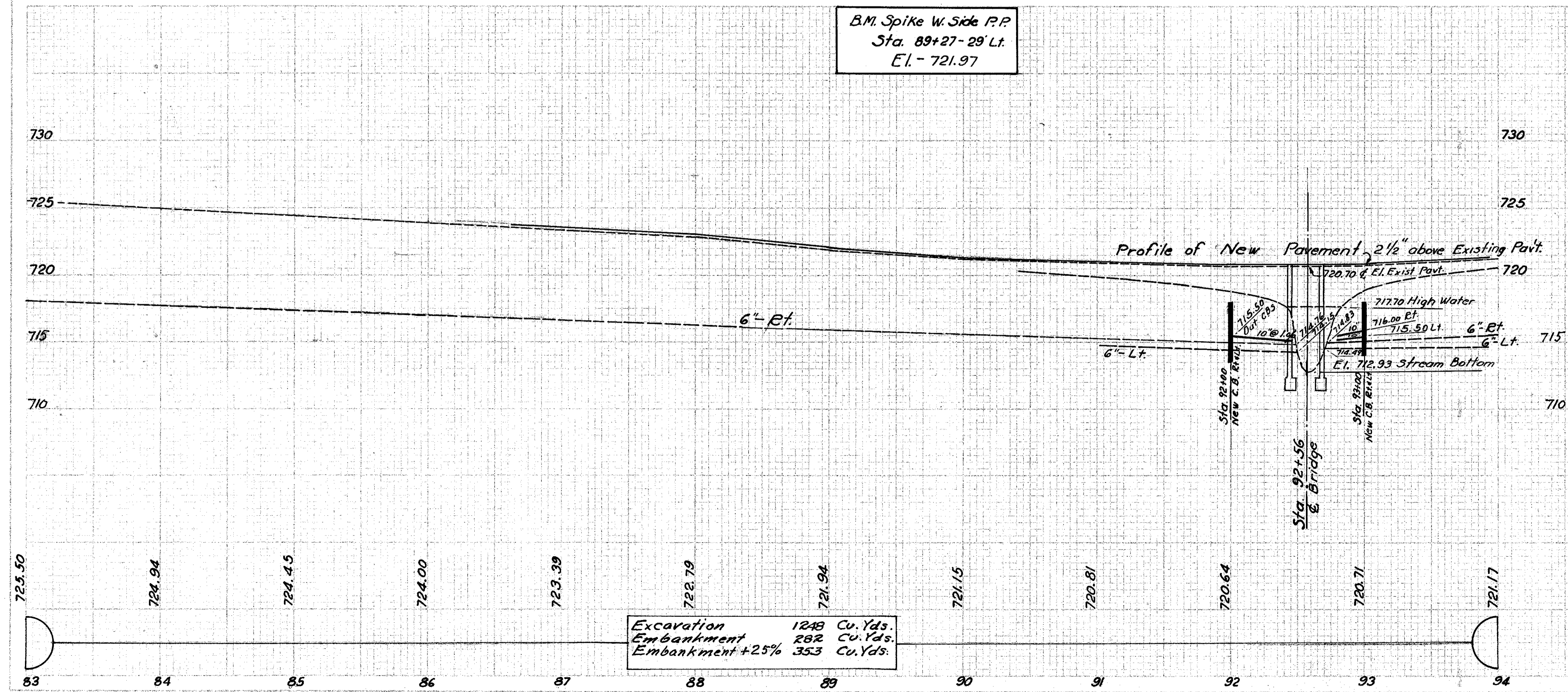
EXIST. BRIDGE DATA (FU-66-47)
 SPAN - 20'
 TYPE - 14\"/>

See Structure Detail, Sheet No. 41

PROPOSED BRIDGE DATA (FU-66-47)

SPAN - 20'
 TYPE - Concrete Slab Extension
 ROADWAY - 38'-0\"/>

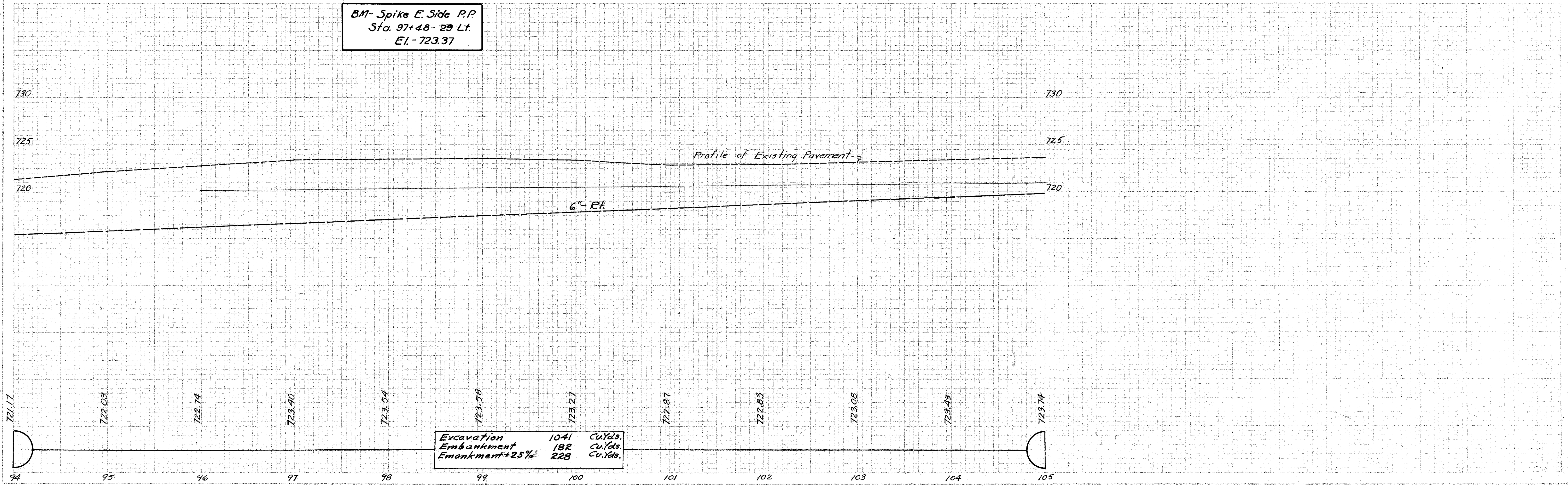
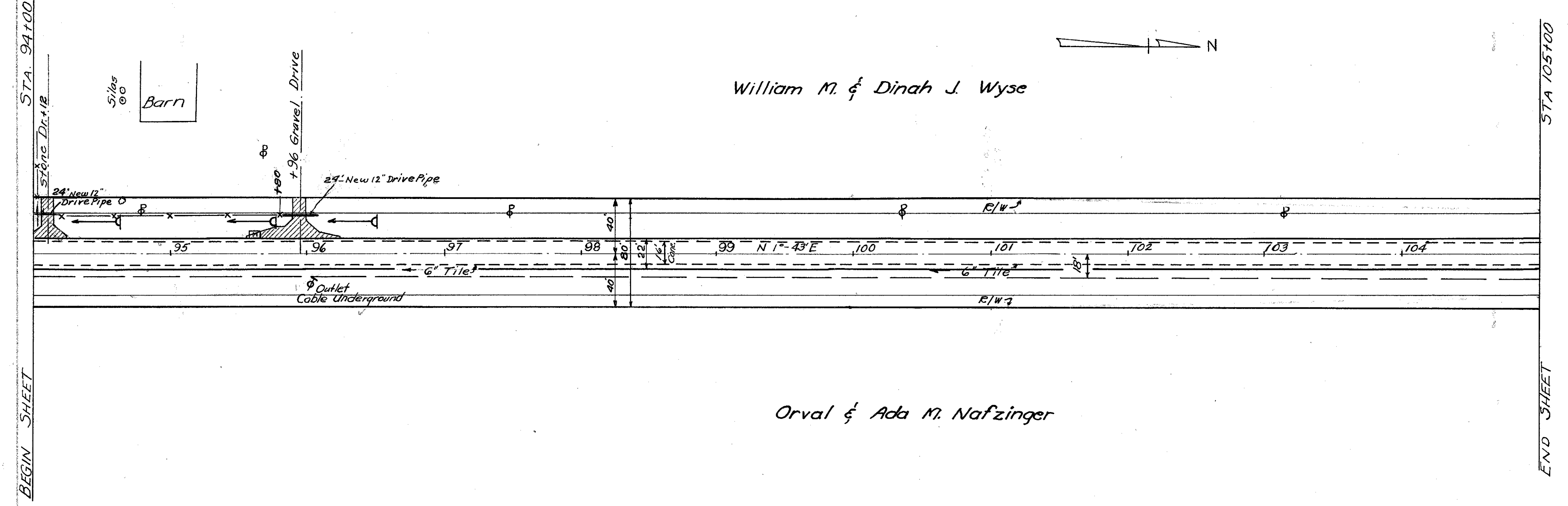
GUARD RAIL		
STA. TO STA.	SIDE	I-15 STEEL BEAM TYPE (DEEP) LIN. FT.
92+34.13 to 92+45	Rt.	10.87
92+40.38 to 92+45	Lt.	4.62
92+67 to 92+71.63	Rt.	4.63
92+67 to 92+77.88	Lt.	10.88
TOTAL		31.00



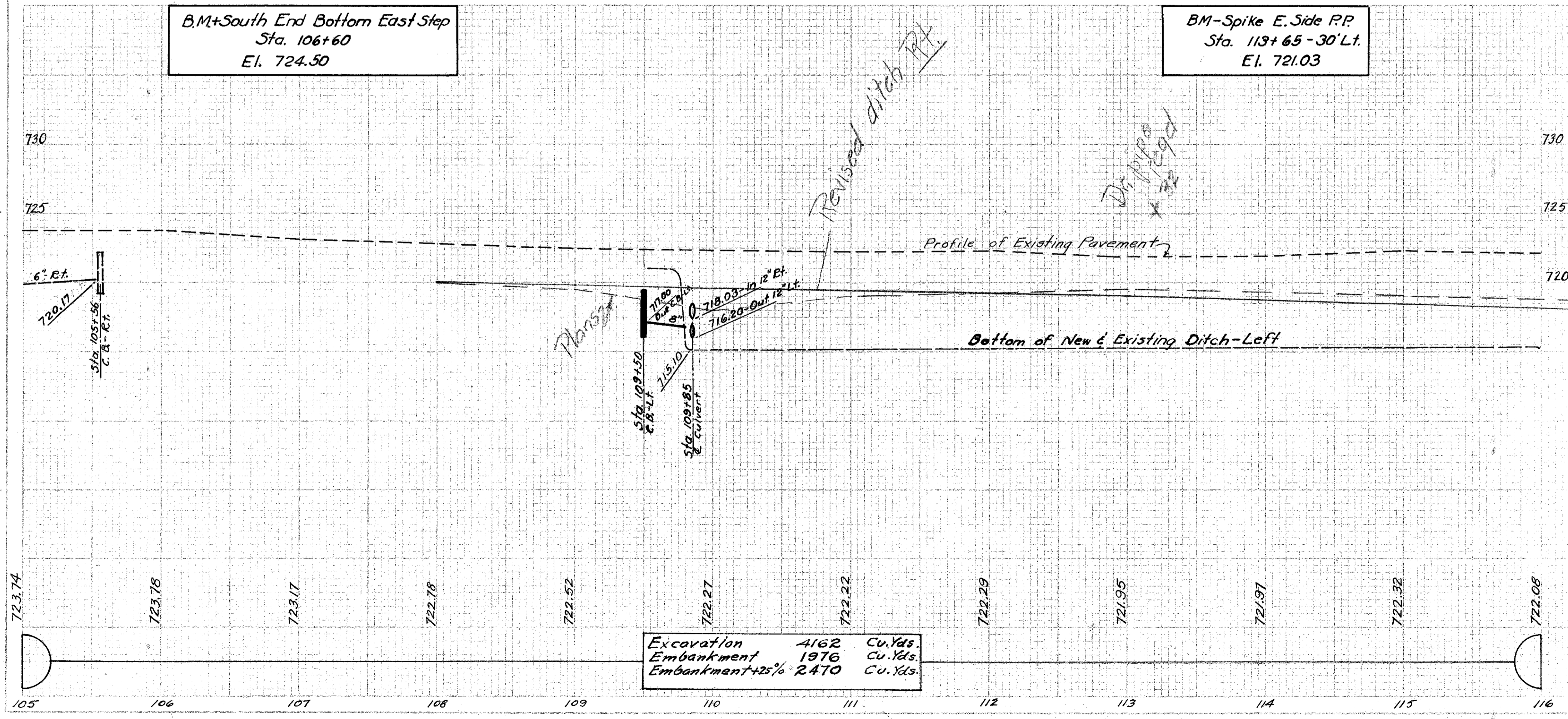
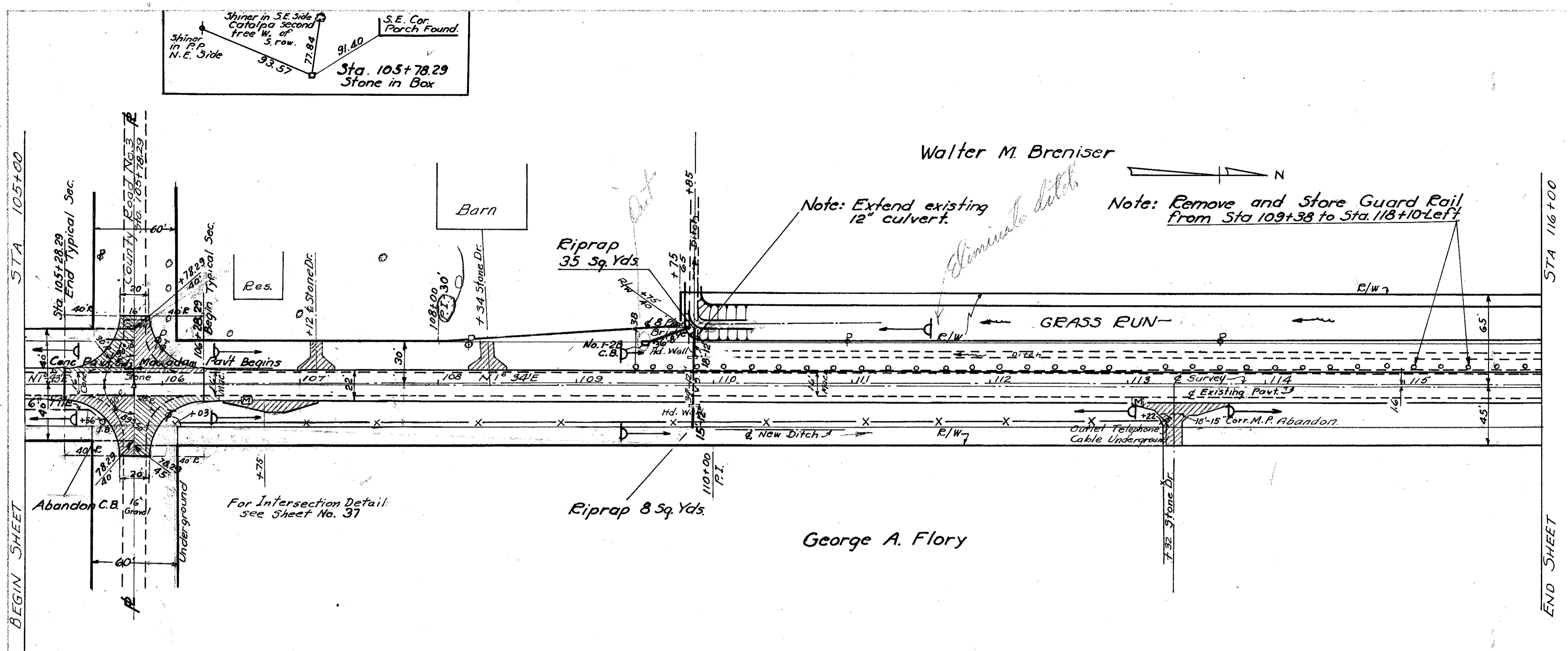
B.M. Spike W. Side P.P.
 Sta. 89+27-29' Lt.
 El. - 721.97

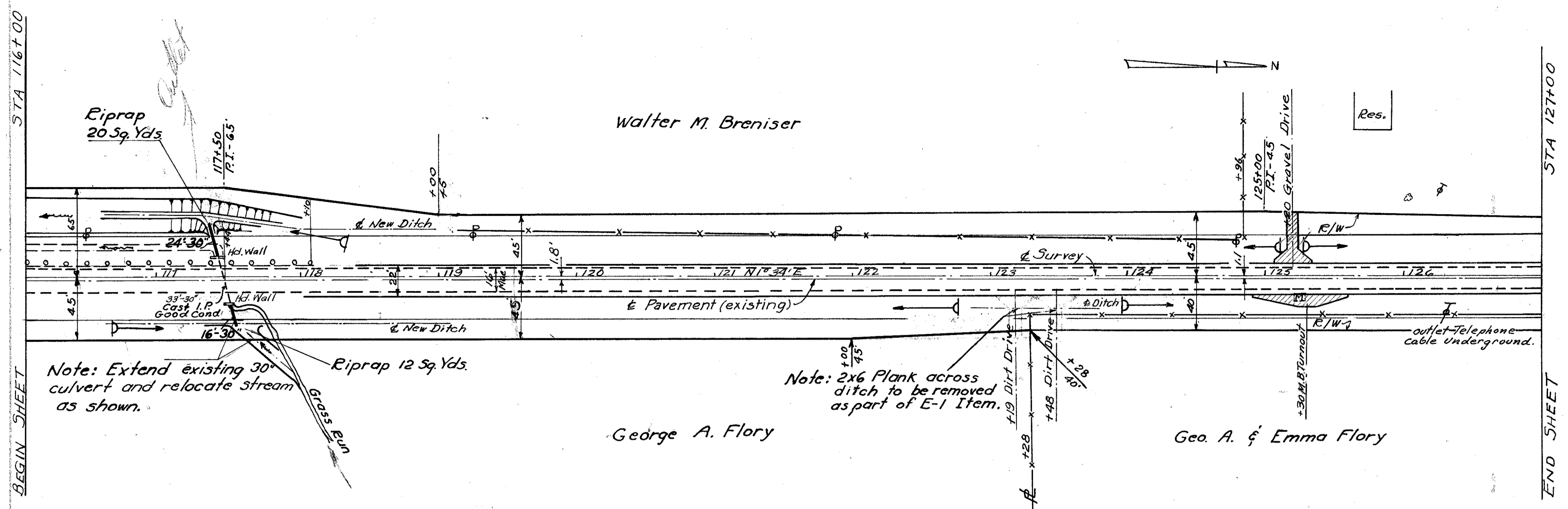
Excavation 1248 Cu. Yds.
 Embankment 282 Cu. Yds.
 Embankment +25% 353 Cu. Yds.

FULTON COUNTY
 FUL-2-4.36
 FUL-66-(3.97-4.97)



FULTON COUNTY
 FUL-2-4.36
 FUL-66-(3.97-4.97)

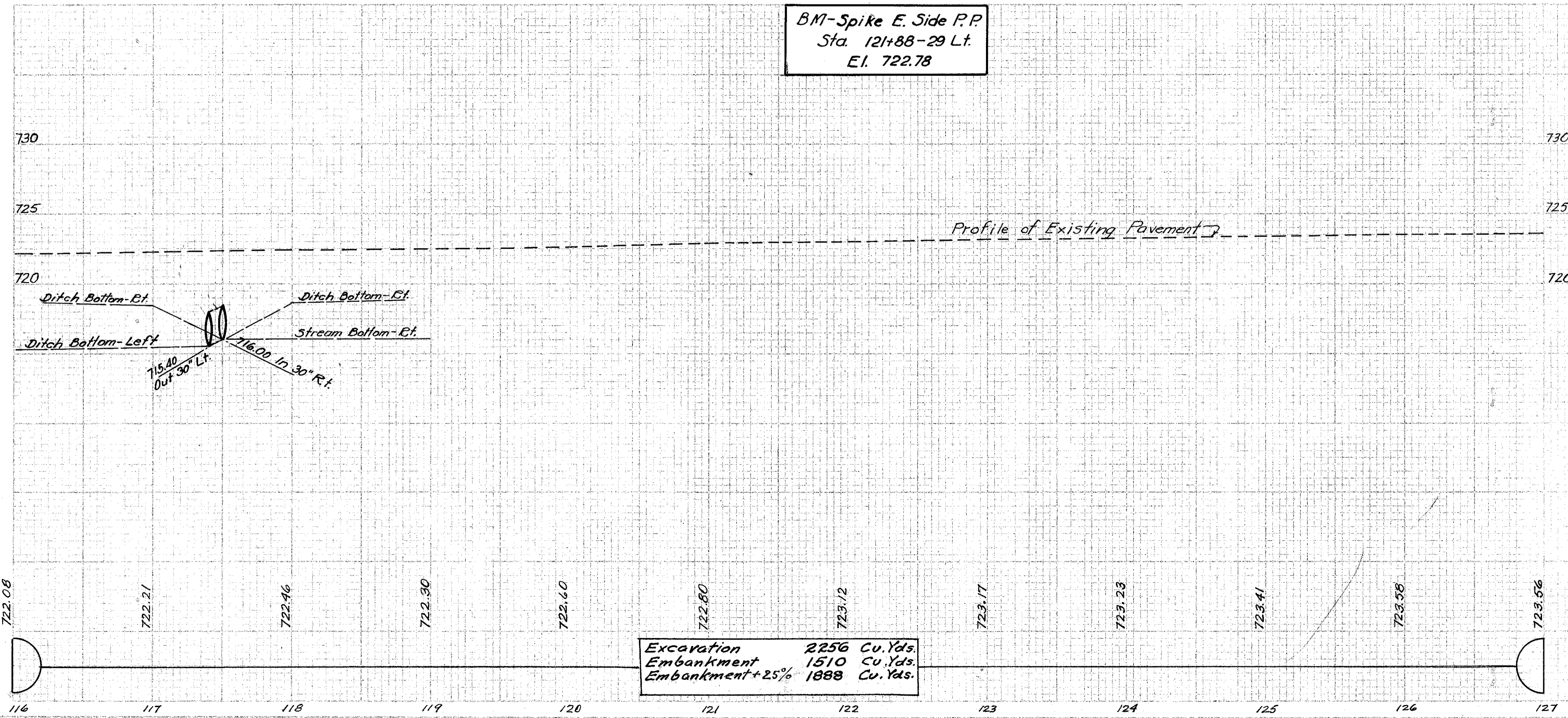




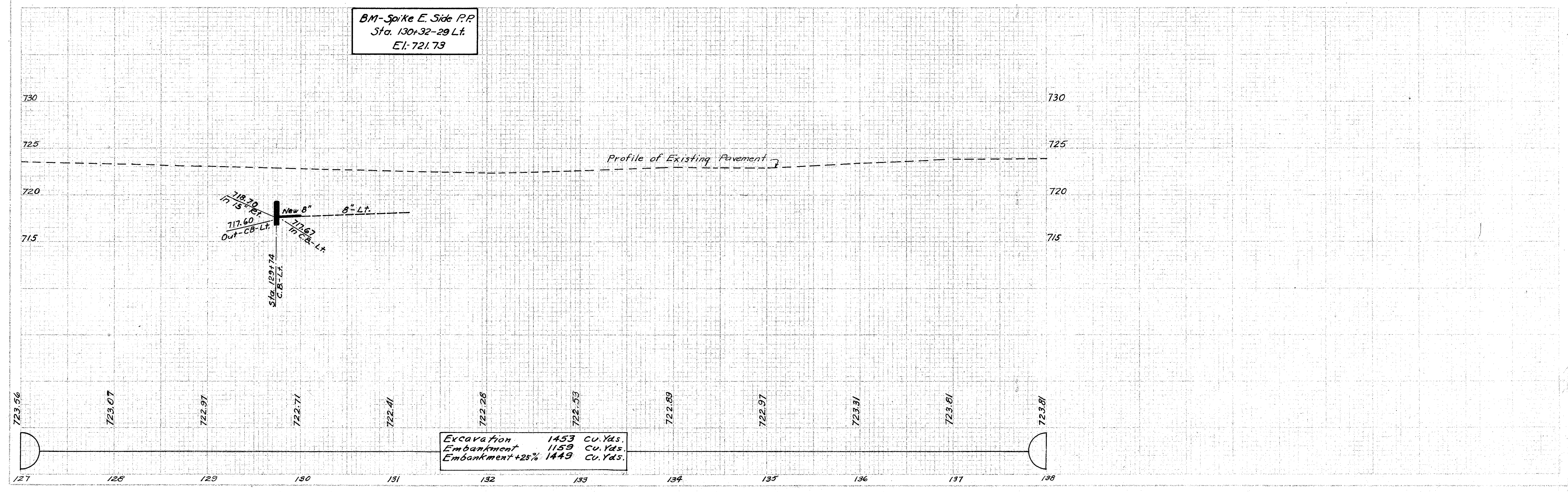
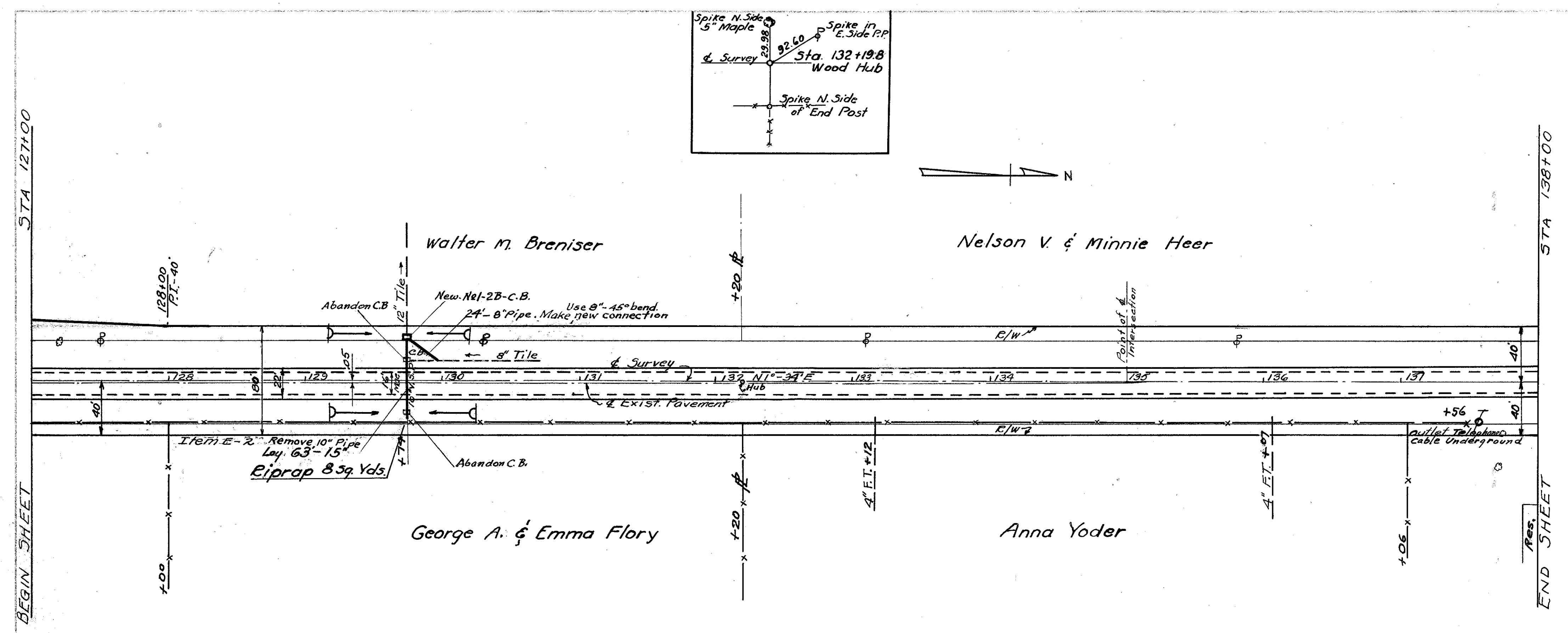
Note: Extend existing 30' culvert and relocate stream as shown.

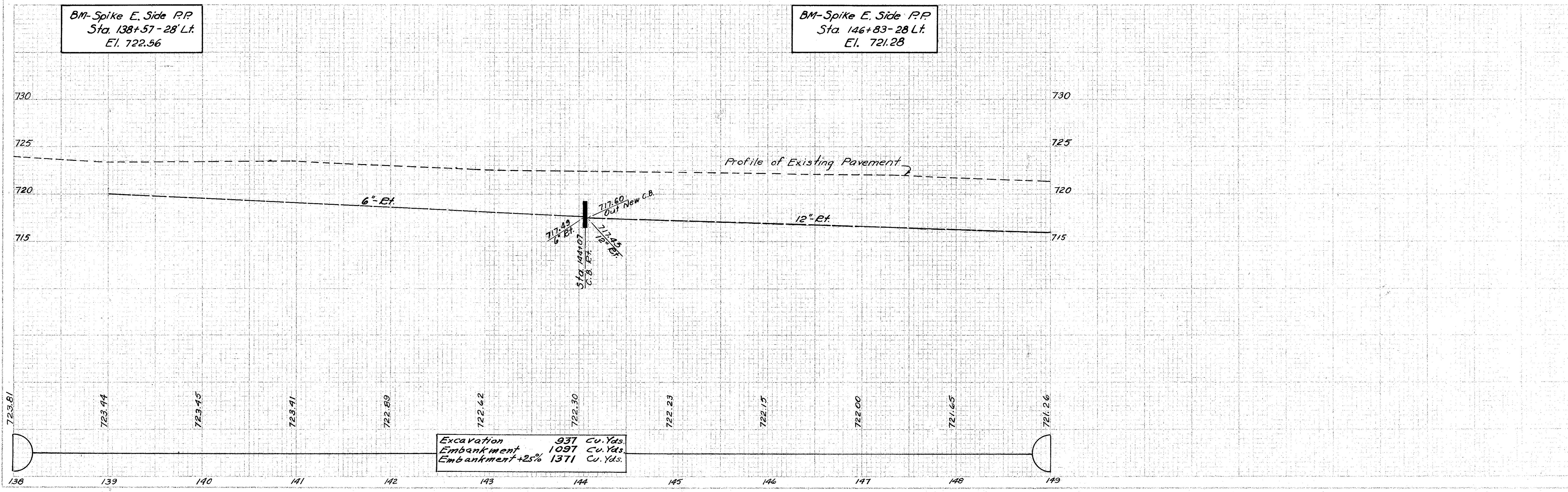
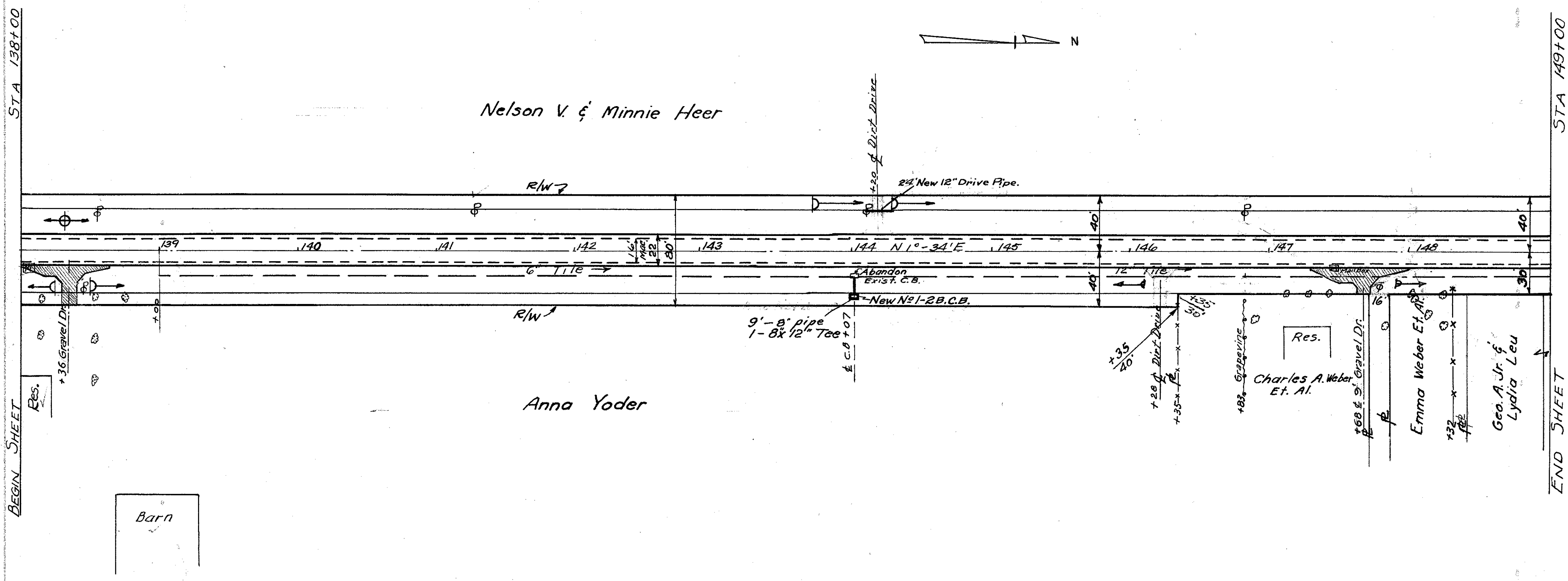
Note: 2x6 Plank across ditch to be removed as part of E-1 Item.

BM-Spike E. Side P.P.
 Sta. 121+88-29 Lt.
 El. 722.78



FULTON COUNTY
FUL-2-4.36
FUL-66-(3.97-4.97)



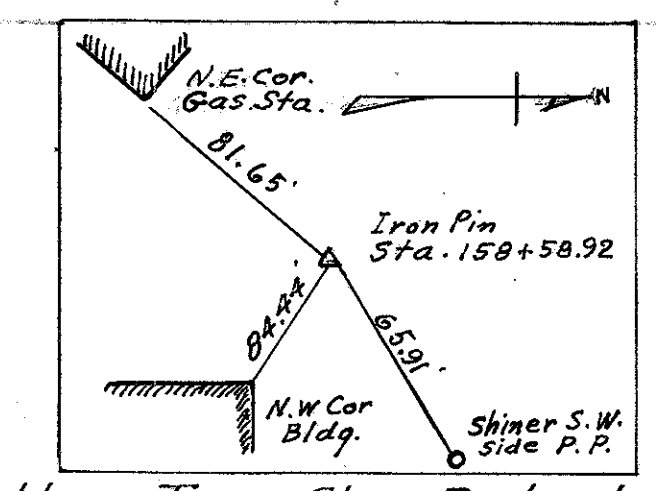


STA 149+00
 BEGIN SHEET

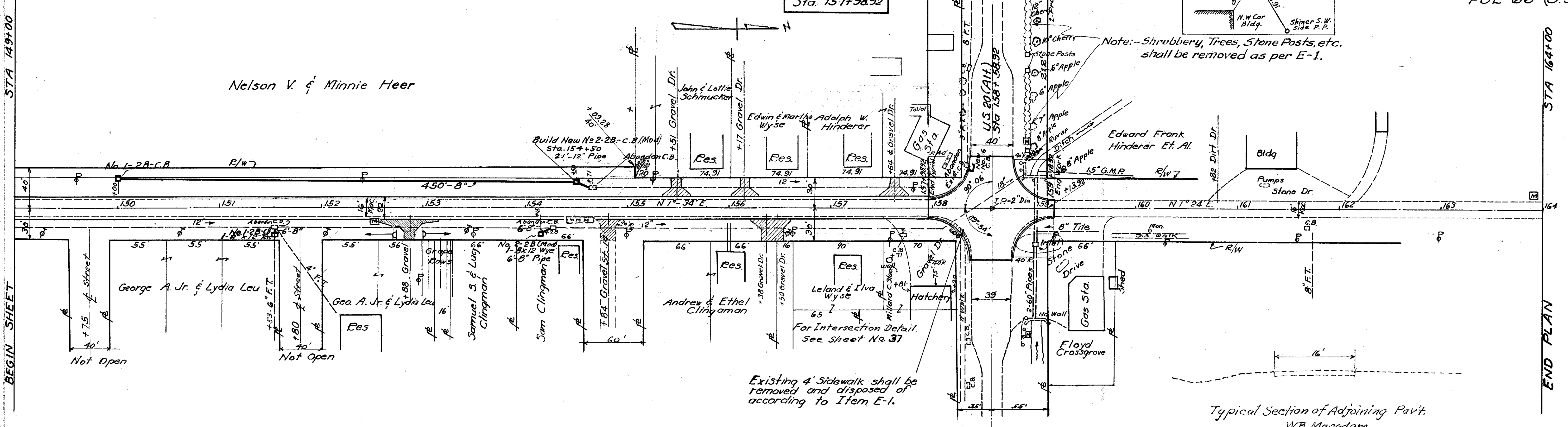
STA 164+00
 END PLAN

Nelson V. & Minnie Heer

End Project
 Sta. 157+98.92

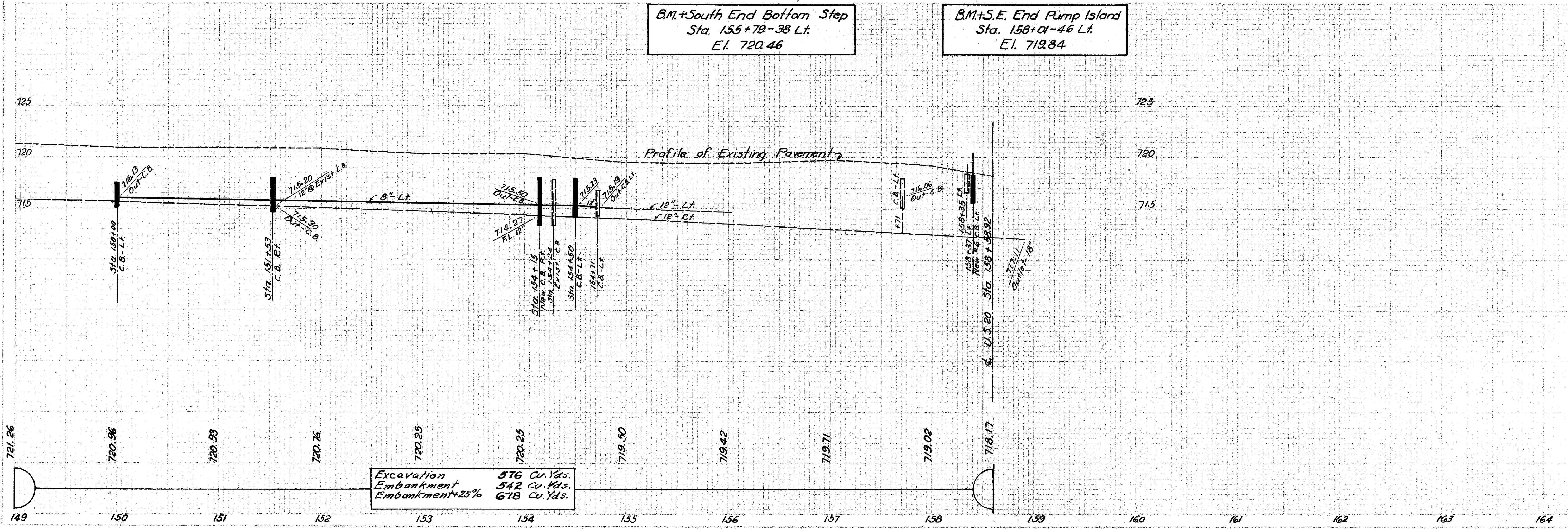


Note: - Shrubbery, Trees, Stone Posts, etc. shall be removed as per E-1.

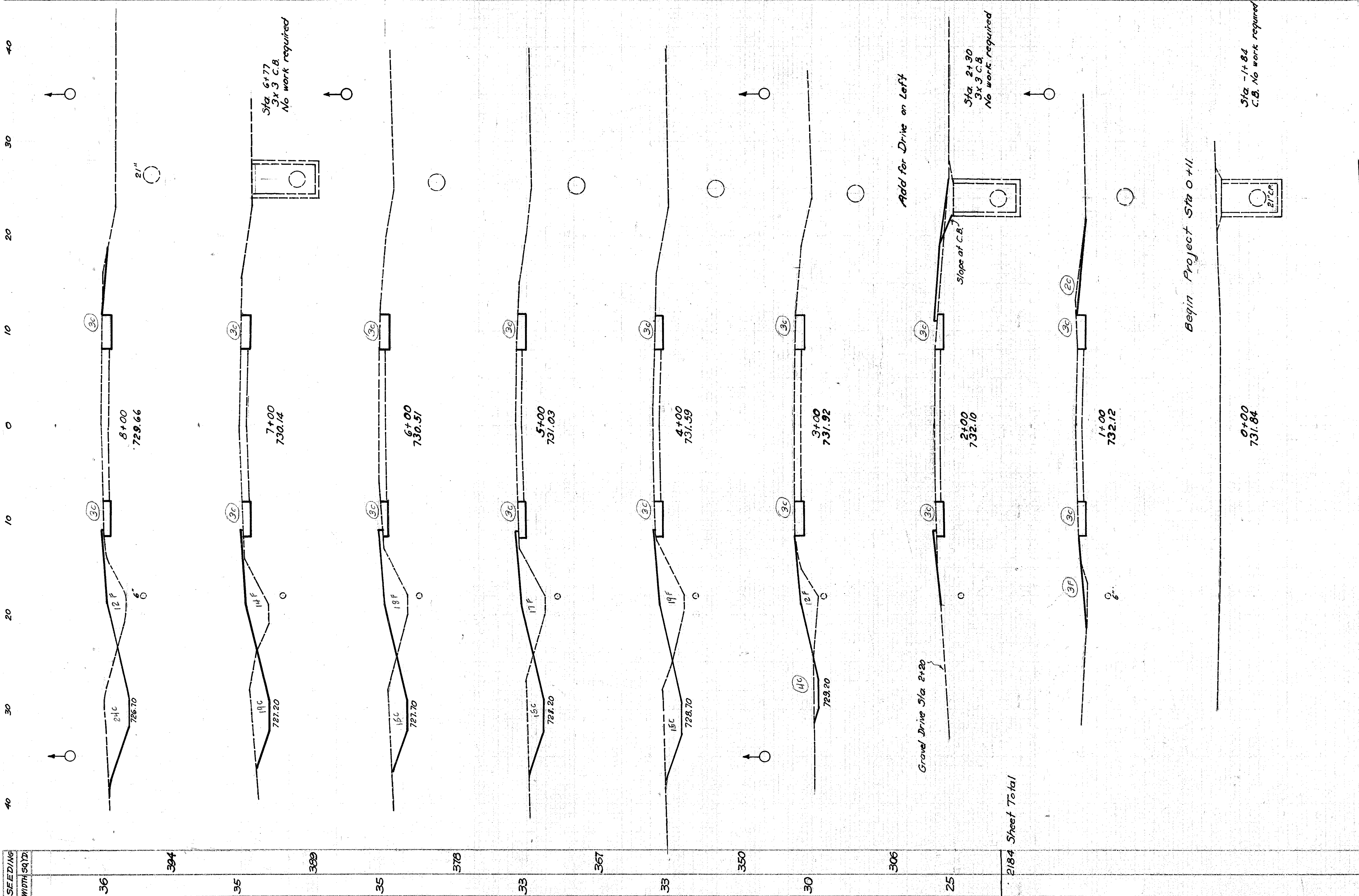


B.M. + South End Bottom Step
 Sta. 155+79-38 Lt.
 El. 720.46

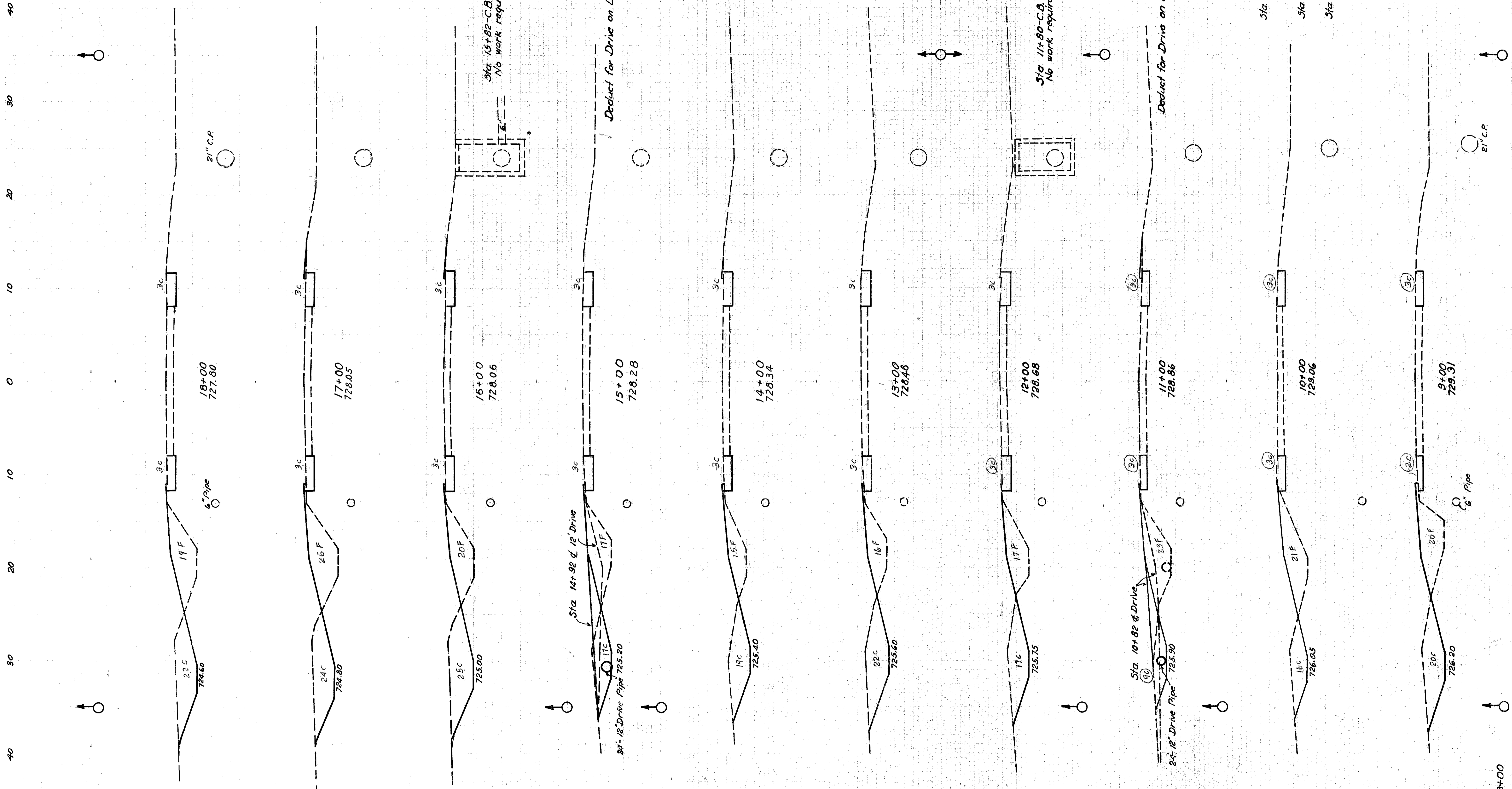
B.M. + S.E. End Pump Island
 Sta. 158+01-46 Lt.
 El. 719.84



SEEDING WIDTH SQ. YD.	END AREA CU. YDS	CUT	FILL	CUT	FILL	CUT	FILL
36	30	12					
364			102	48			
35	25	14					
369			85	59			
35	21	18					
378			78	65			
33	21	17					
367			78	67			
33	21	19					
350			57	57			
30	10	12					
306			30	31			
25	6	5					
2184			26	15			



SEEDING
WIDTH 50' 12"



END AREA	C.U. YDS		
CUT	FILL	CUT	FILL
28	19	107	83
30	26	113	85
31	20	100	69
23	17	-	5
25	15	89	59
28	16	98	57
23	17	94	61
15	23	70	74
22	21	-	5
25	20	69	81
30	12	87	76
25	20	102	59
30	12		

2 OHIO 1948
 FULTON COUNTY
 FUL-2-4.36
 FUL-66-(3.97-4.97)

3895 Sheet Total

21
41

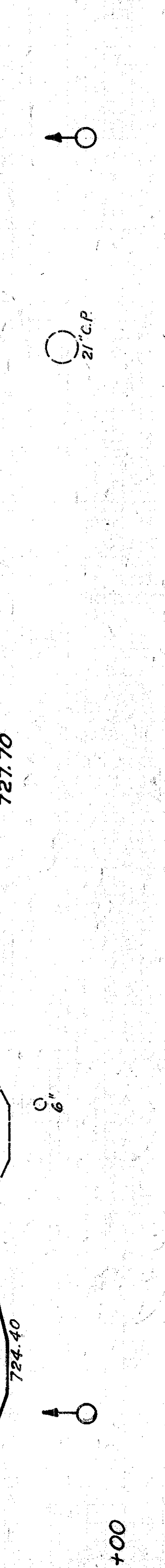
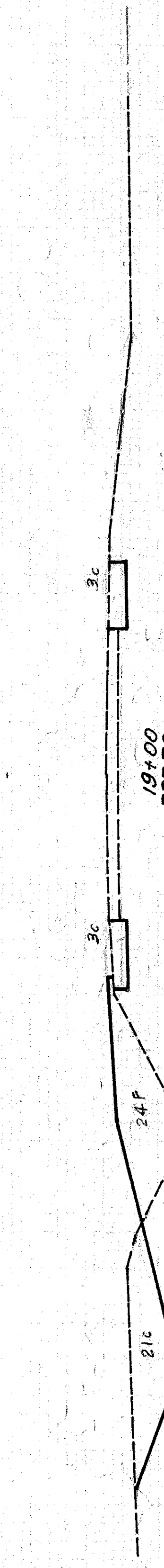
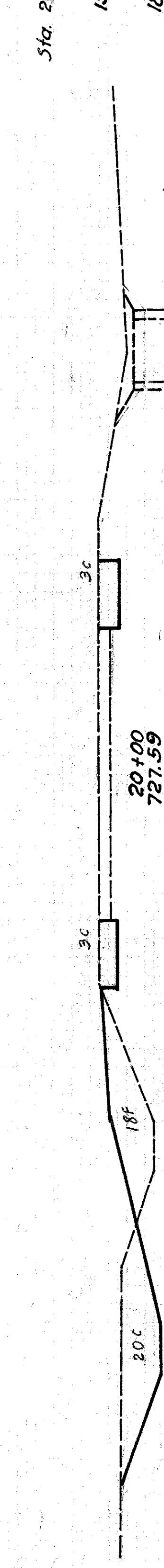
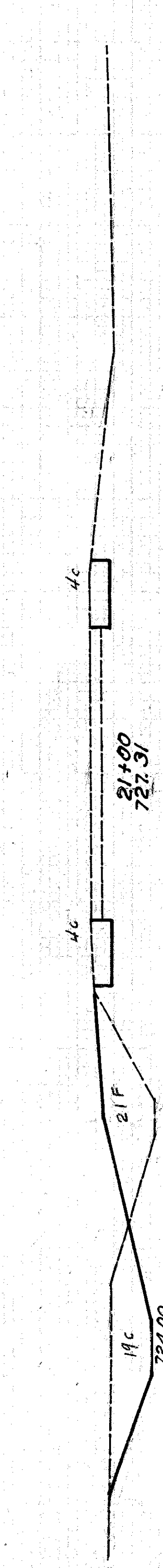
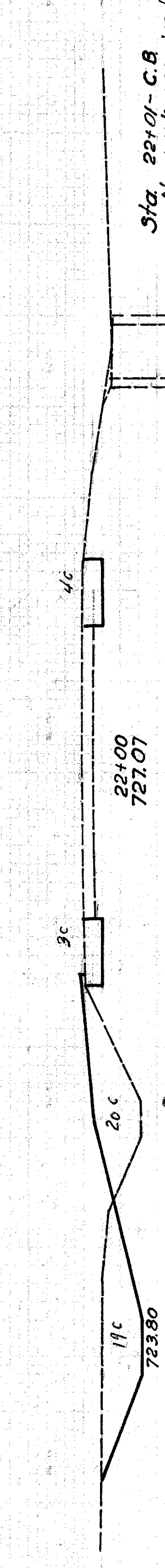
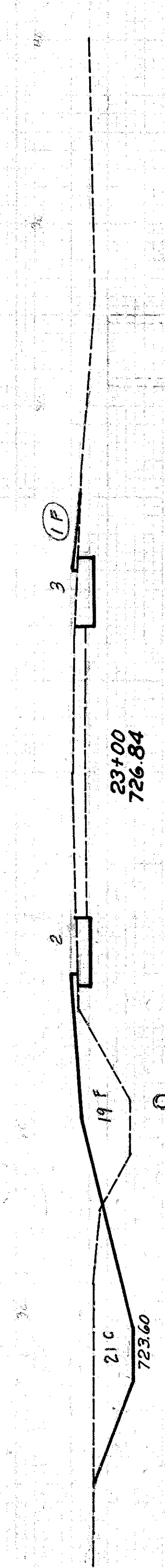
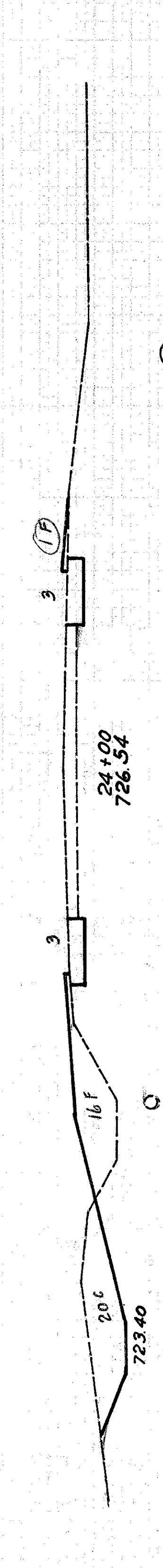
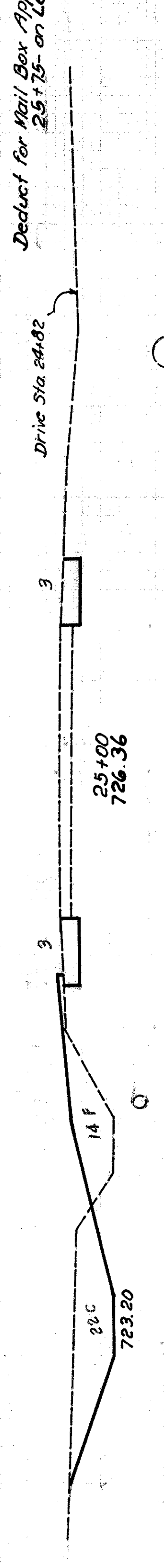
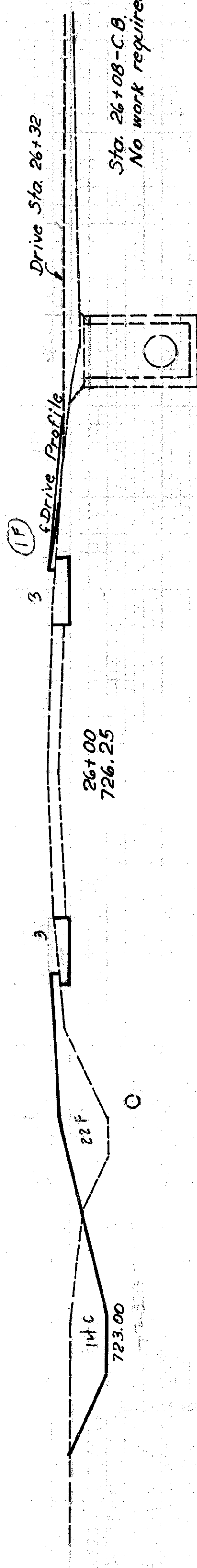
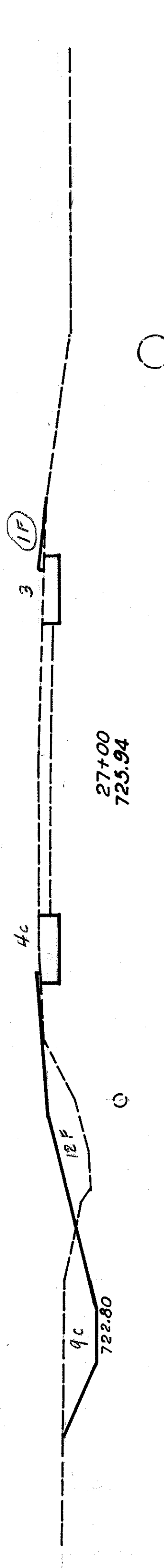
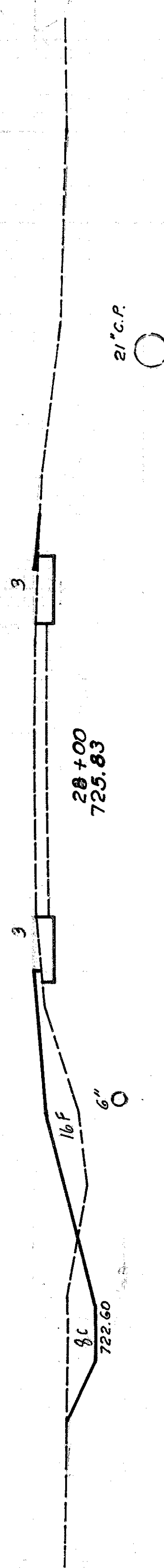
SEEDING
W/THRESH YDS

40 30 20 10 0 10 20 30 40

END AREA CU. YDS.
CUT FILL CUT FILL

14	16	56	54	67	67	89	69	- 6	100	56	96	67	96	74	98	76	98	72	98	78	102	80
----	----	----	----	----	----	----	----	-----	-----	----	----	----	----	----	----	----	----	----	----	----	-----	----

2 OHIO 1948 22
 FULTON COUNTY 41
 FUL.-2- 4.36
 FUL.-66(3.97-4.97)



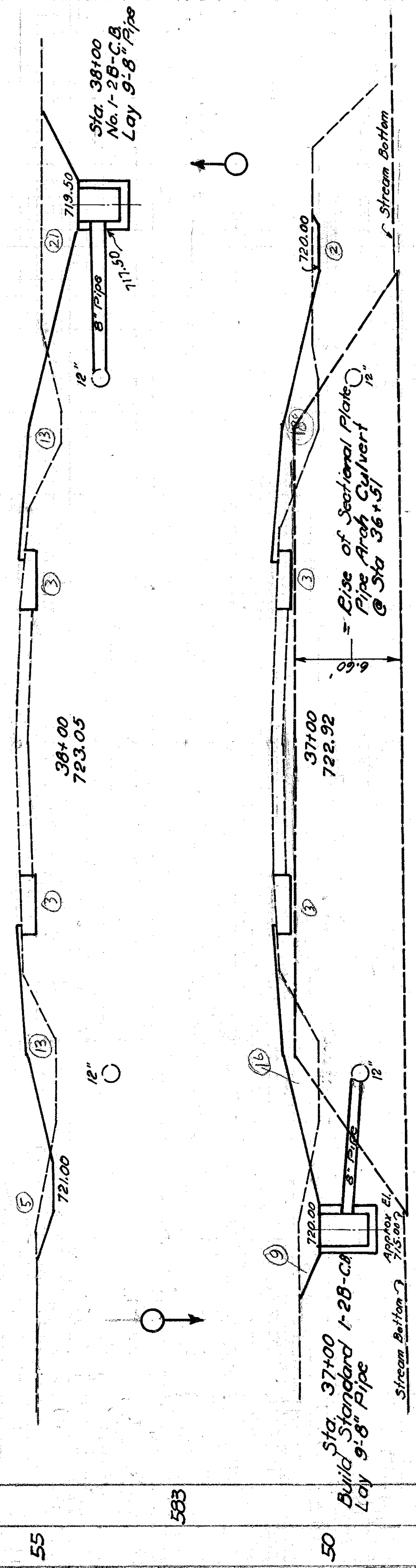
3912 Sheet Total 40

SEEDING
WIDTH IN YDS.

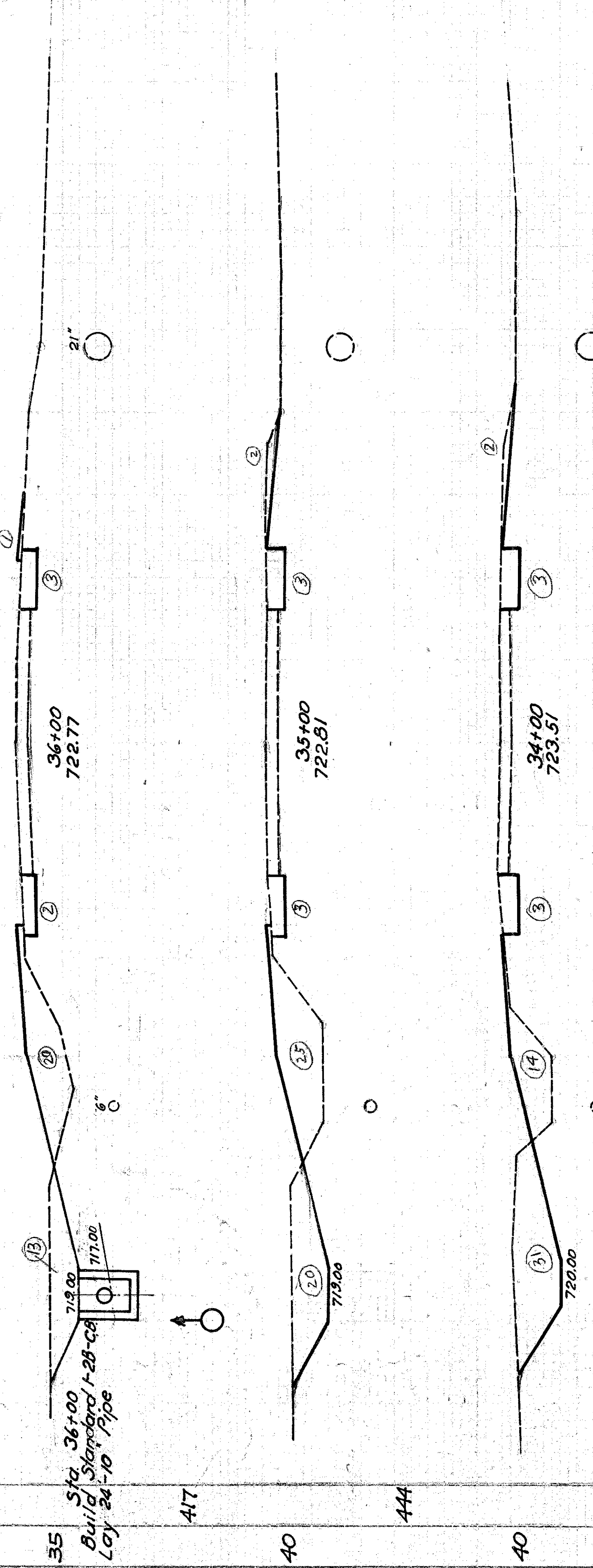
40 30 20 10 0 10 20 30 40

END AREA CU. YDS.
CUT FILL CUT FILL

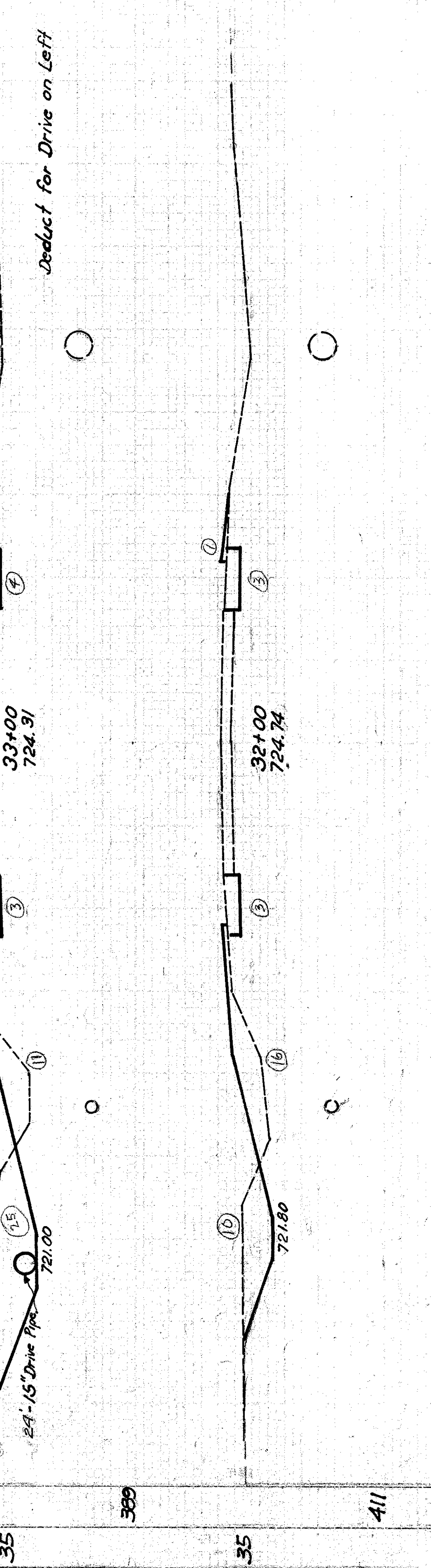
32	26	104	111	67	102	-5	-20	85	85	124	72	39	14	131	46	-8	-5	89	52	67	65	100	44	117	26	80	44
----	----	-----	-----	----	-----	----	-----	----	----	-----	----	----	----	-----	----	----	----	----	----	----	----	-----	----	-----	----	----	----



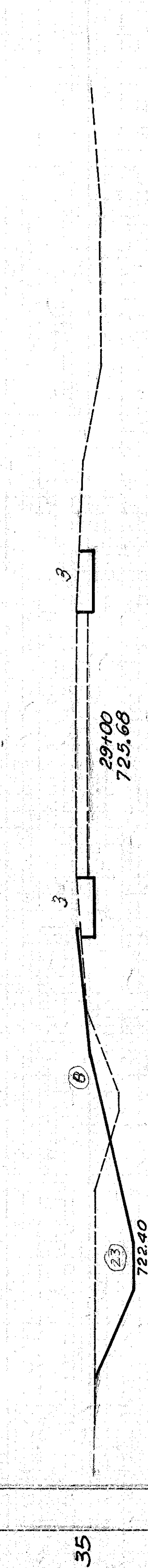
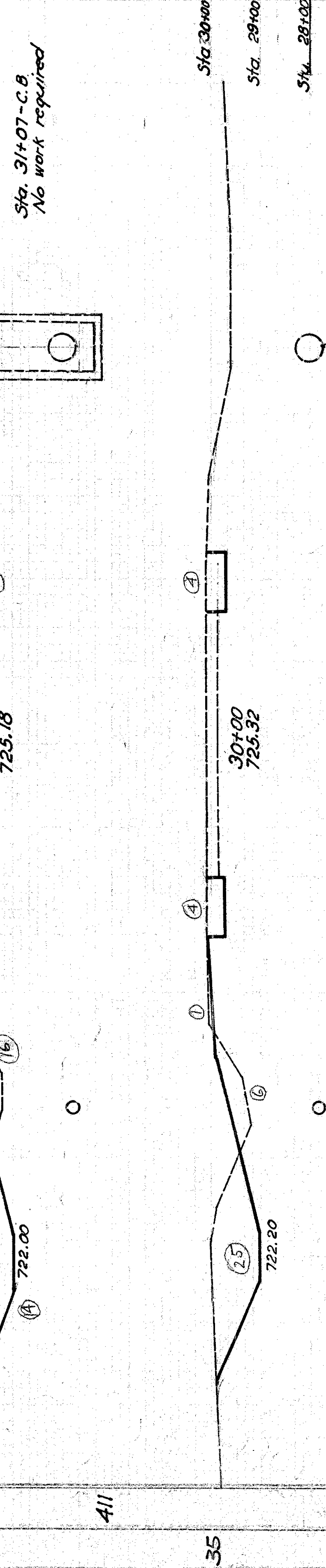
Deduct for Culvert



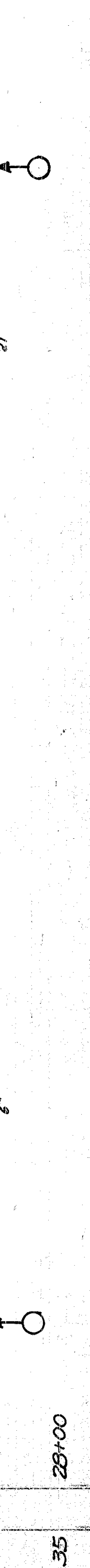
Deduct for Drive on Left



Deduct for Drive on Left



Deduct for Drive on Left

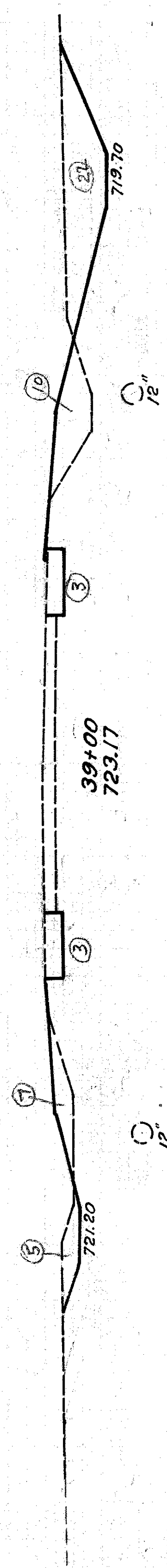
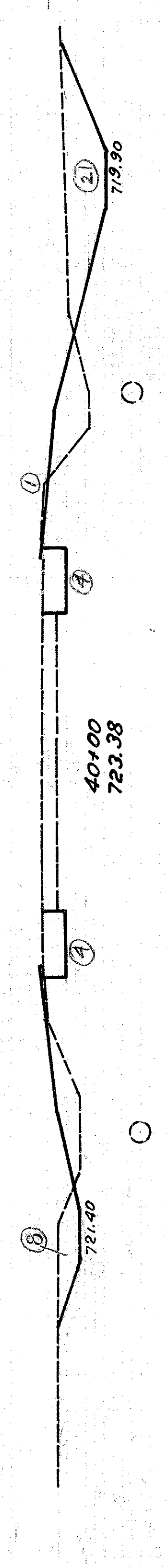
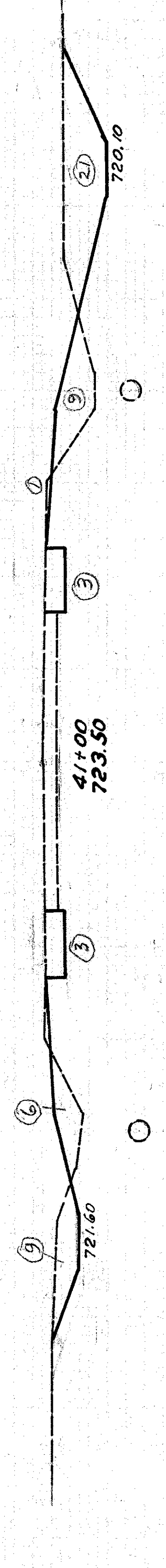
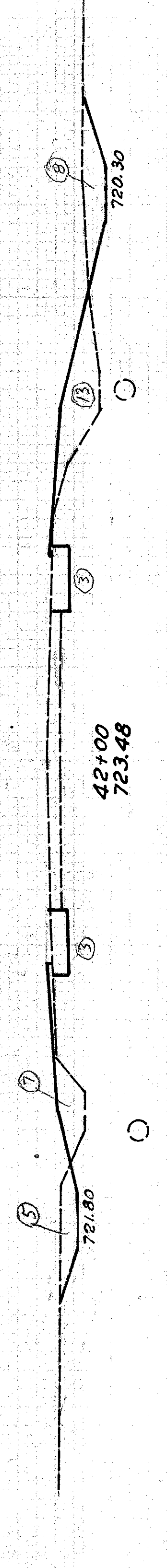
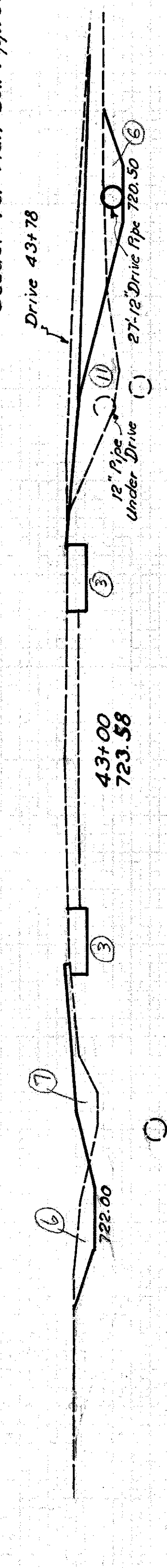
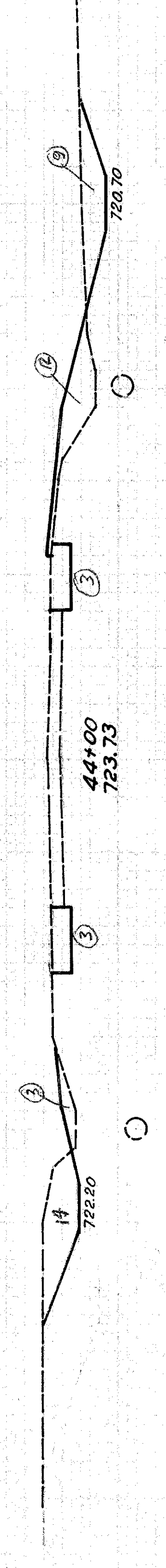
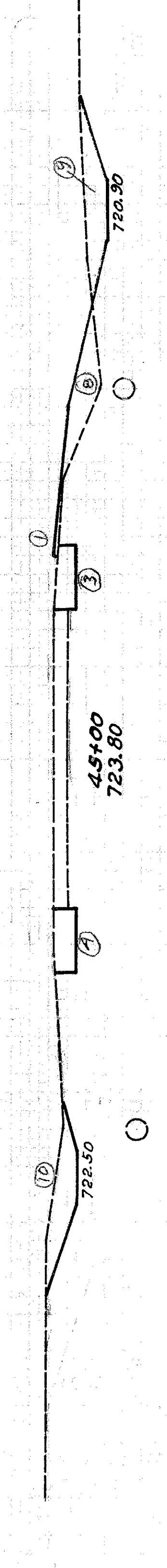
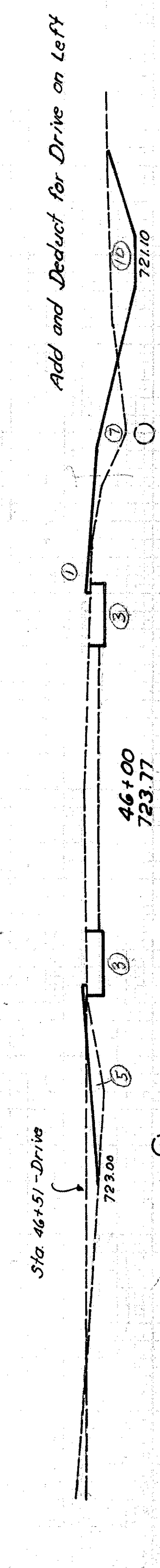
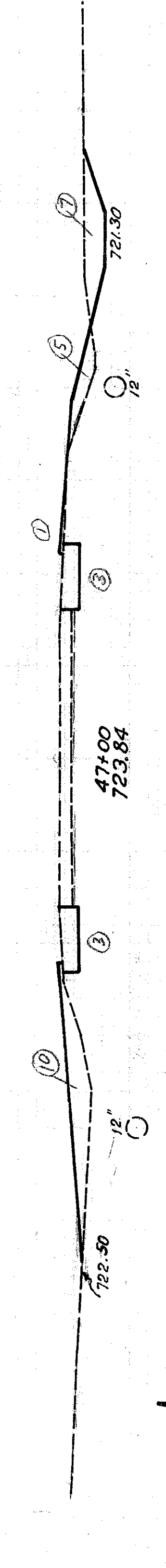
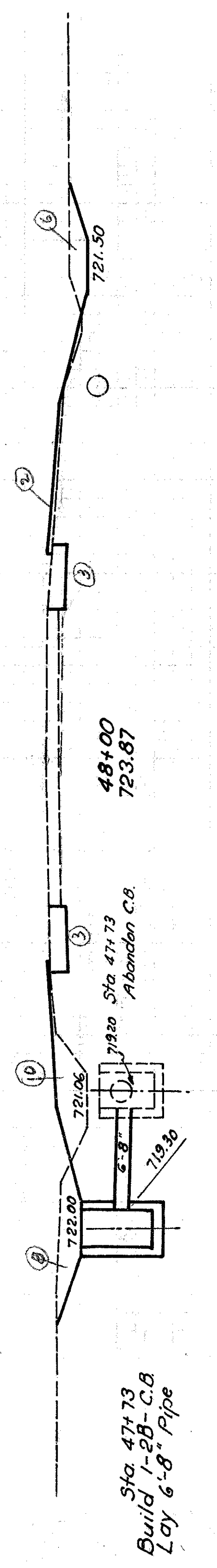


28+00
Sheet Total

SEEDING
WIDTH 50 YDS

40 30 20 10 0 10 20 30 40

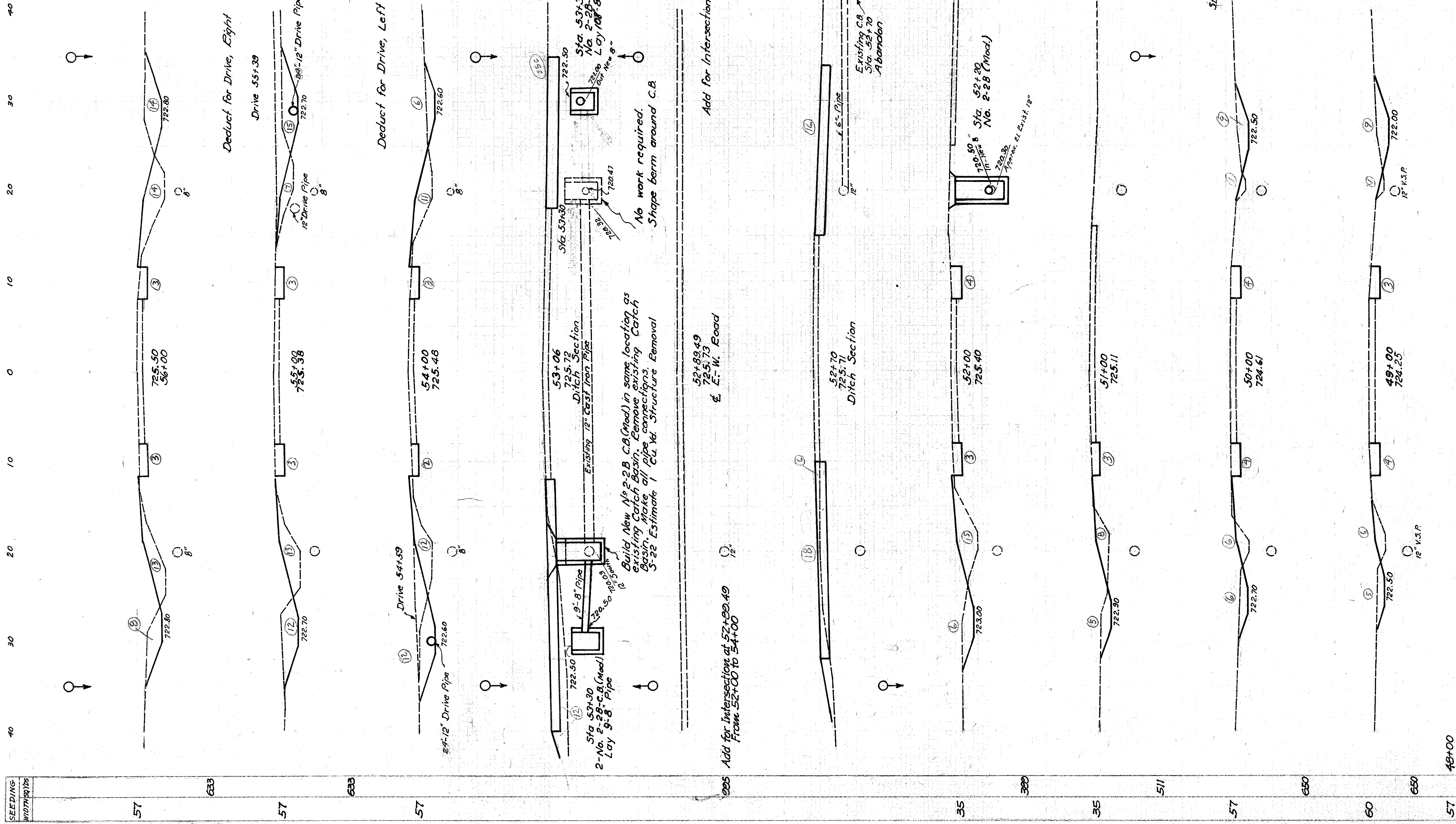
END AREA CU. YDS.	CUT	FILL	CUT	FILL
	20	12		
			63	50
	14	15		
			57	50
	17	12		
			+ 3	- 3
			81	37
	27	8		
			104	37
	29	12		
			87	56
			- 4	
	18	18		
			+ 6	70
	19	20		
			104	67
	37	16		
			139	63
	38	18		
			131	65
	33	17		
			120	80
	32	26		



38+00
Sheet Total

2 OHIO 1948 RA 41
FULTON COUNTY
FUL-2-(4.36)
FUL-66-(3.97-4.97)

SEEDING
WIDTHS YDS



END AREA CU. YDS.	CUT FILL CUT/FILL
28	27
113	87
-8	-6
33	20
104	80
-8	-8
23	23
92	80
30	22
40	
34	6
61	27
13	15
39	43
8	8
57	28
7	81
23	26
7	76
21	35
20	12

2 OHIO 1948 25
 41
 FULTON COUNTY
 FUL. -2- 4.36
 FUL. -66-(3.97-4.97)

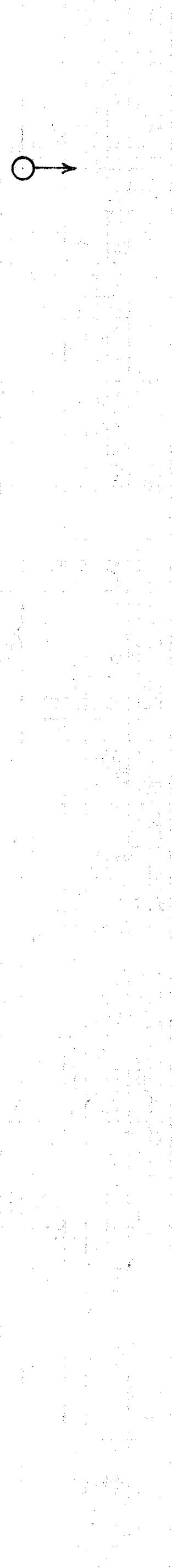
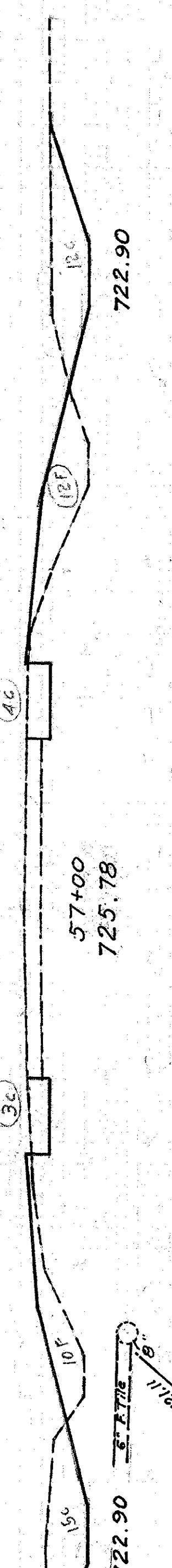
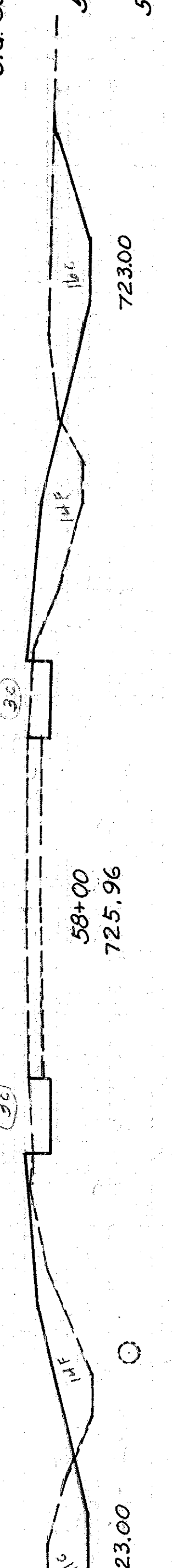
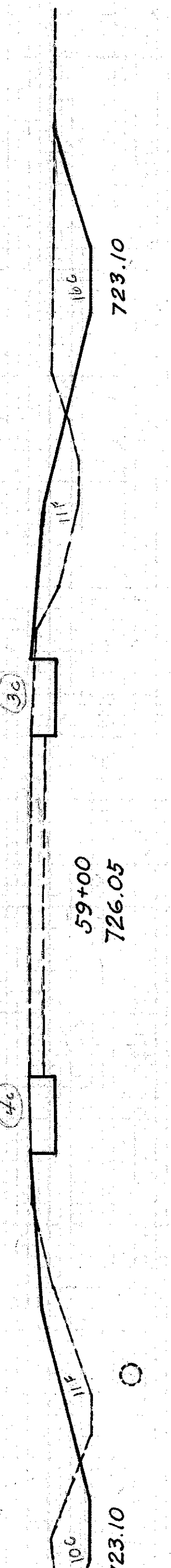
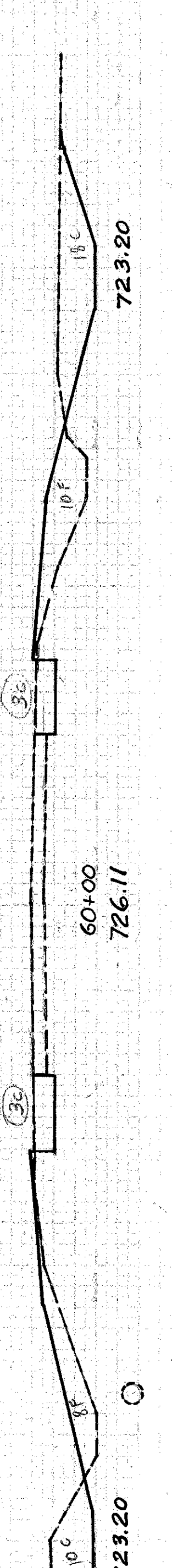
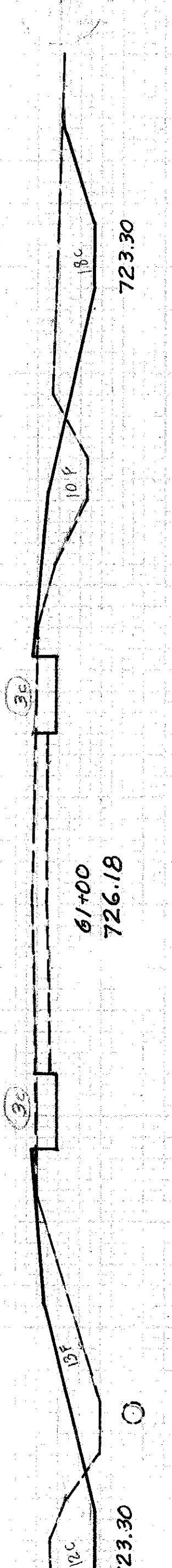
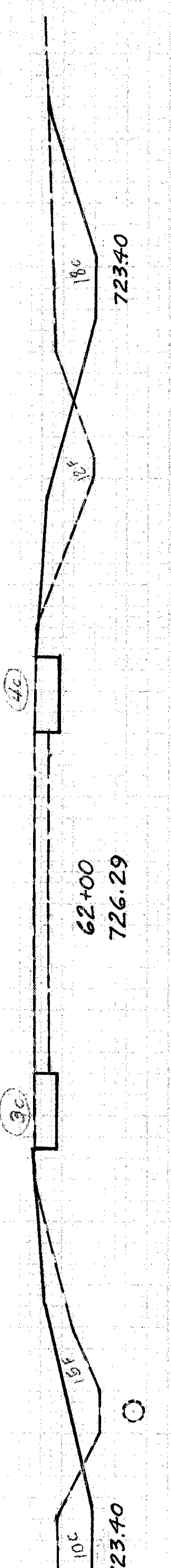
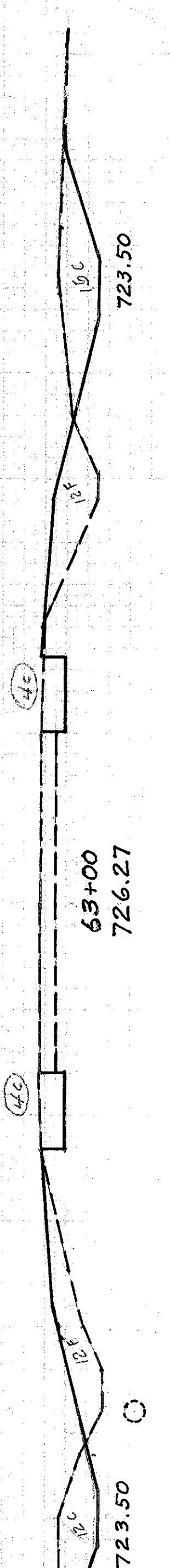
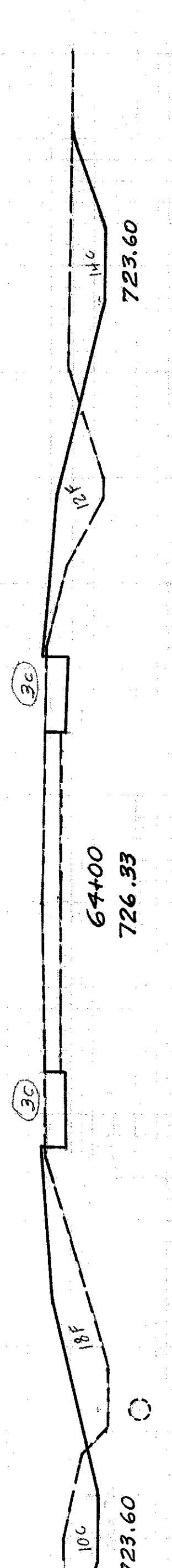
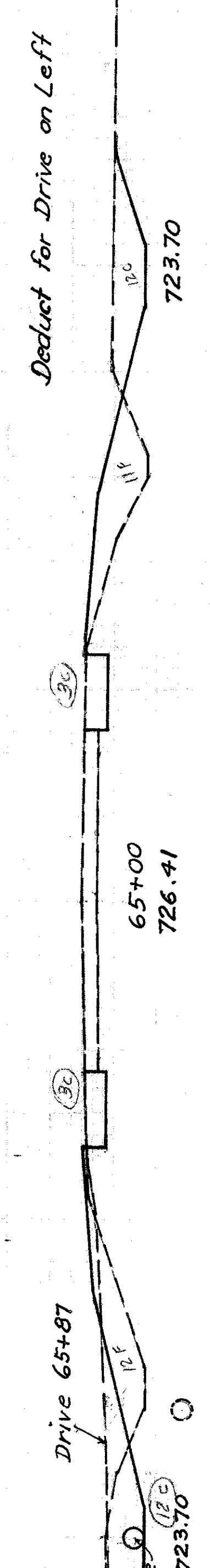
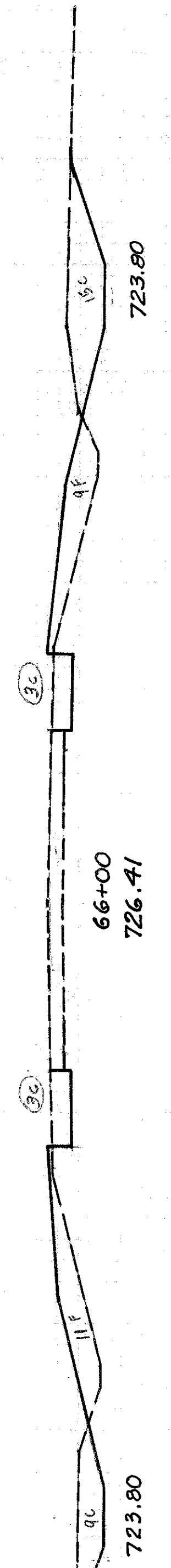
48+00
 4461 Sheet Total

SEEDING
WIDTH 40 YDS.

40 30 20 10 0 10 20 30 40

END AREA
CUT FILL CUT FILL

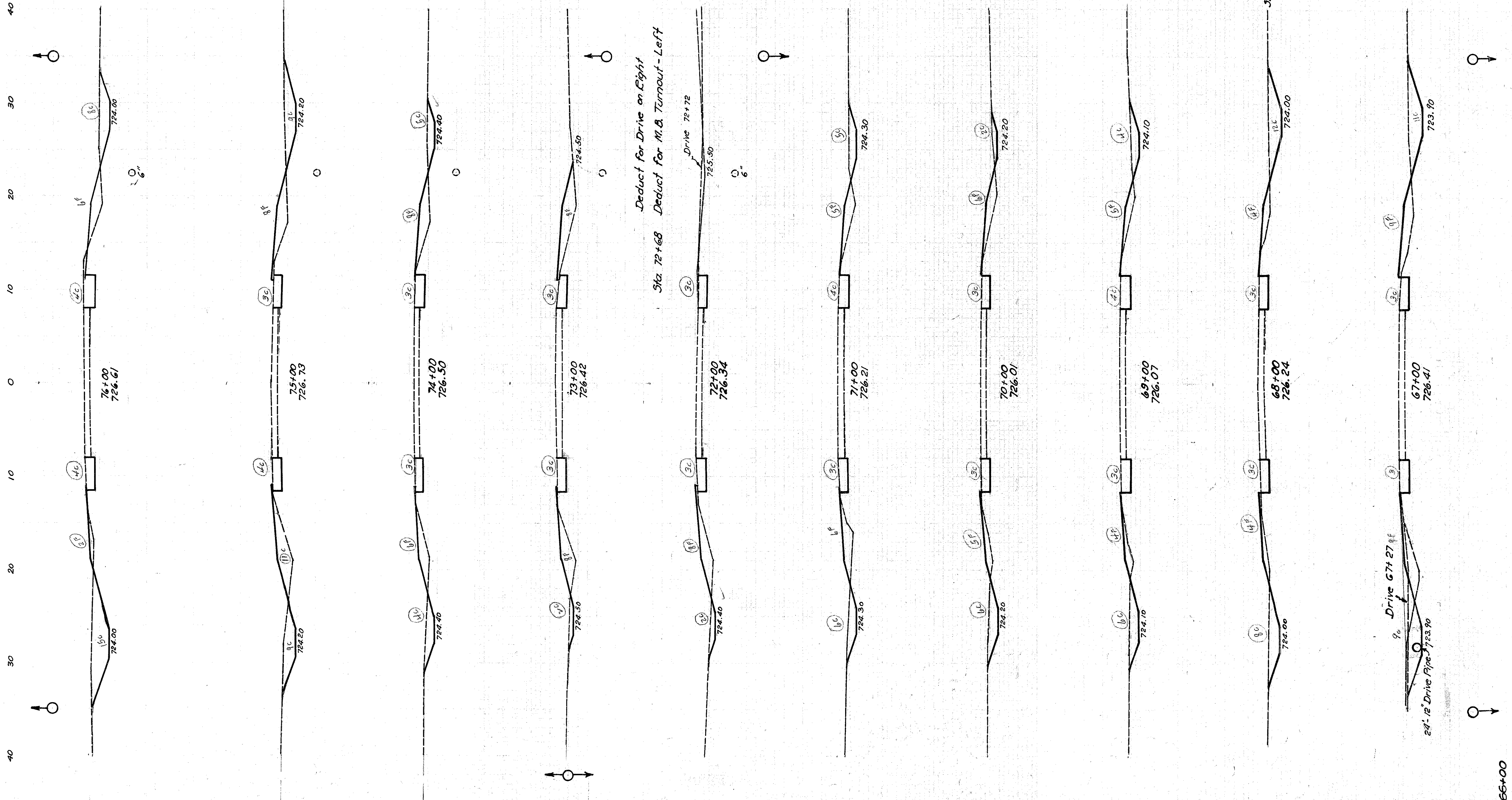
30	20	111	80	-6	-8	30	23	111	98	30	30	120	100	35	24	130	94	35	27	131	93	36	23	130	76	34	18	124	74	33	22	122	93	57a	58+00	33	28	124	93	57	57+00	34	22	115	91	56+00	28	27
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6427 Sheet Total

2 OHIO 1948 26
FULTON COUNTY 41
FUL-2- 4.36
FUL-66-(3.97-4.97)

SEEDING
W/DIRTY YDS



END AREA CUT/FILL CUT/FILL	CUT YDS	FILL YDS
31	8	
		104.50
25	19	
		74.61
15	14	
		43.56
8	16	
		30.44
		-3
		-6
8	8	
		48.35
18	11	
		59.41
14	11	
		57.37
17	9	
		80.31
26	8	
		36.43
26	18	
		104.70
30	20	
		66+00

2 OHIO 1948 27
 41
 FULTON COUNTY
 FUL-2-4.36
 FUL-66-(3.97-4.97)

6293 Sheet Total

SEEDING
W/DRYSD YDS

57

633

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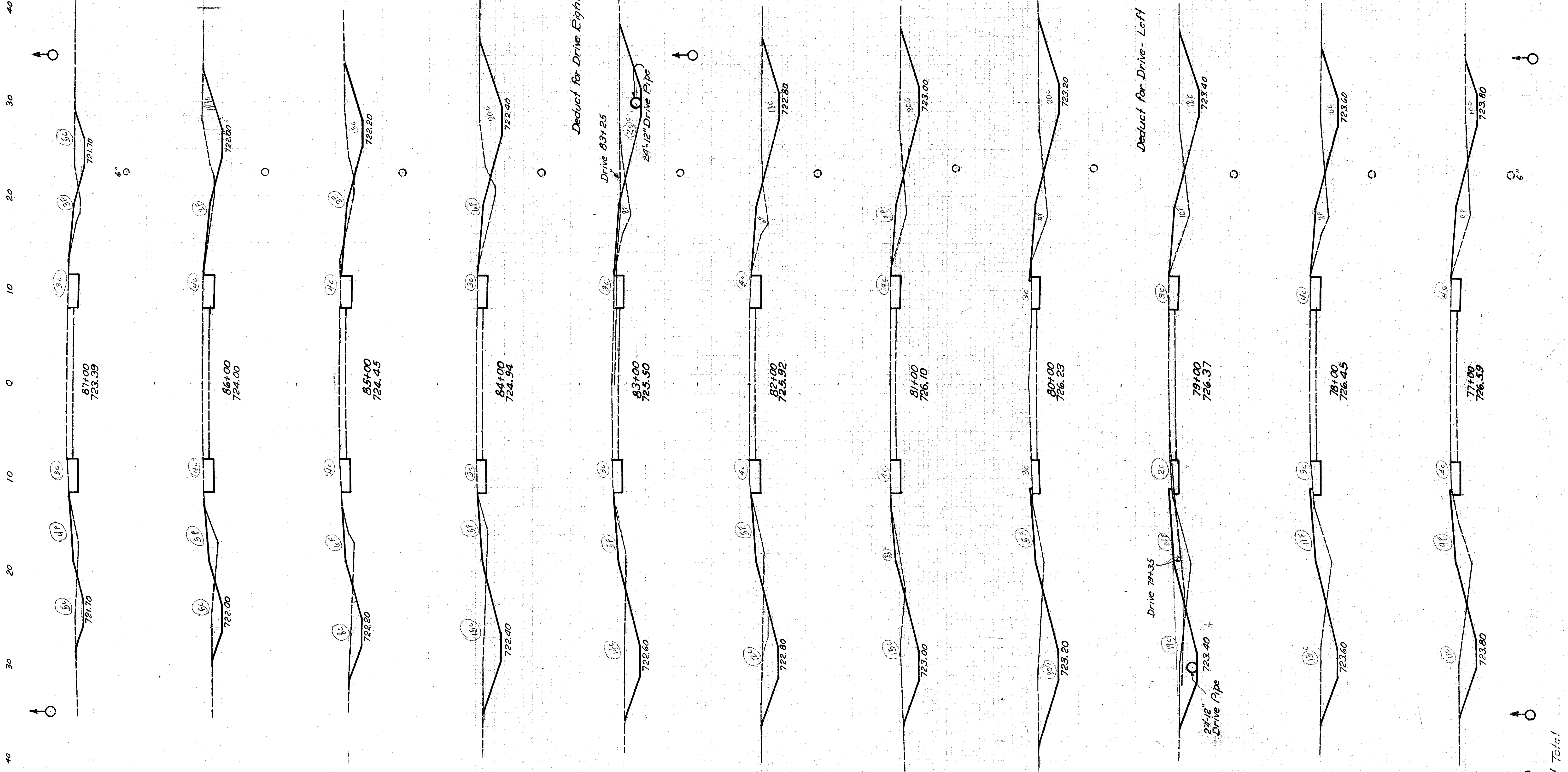
633

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5063 Sheet Total



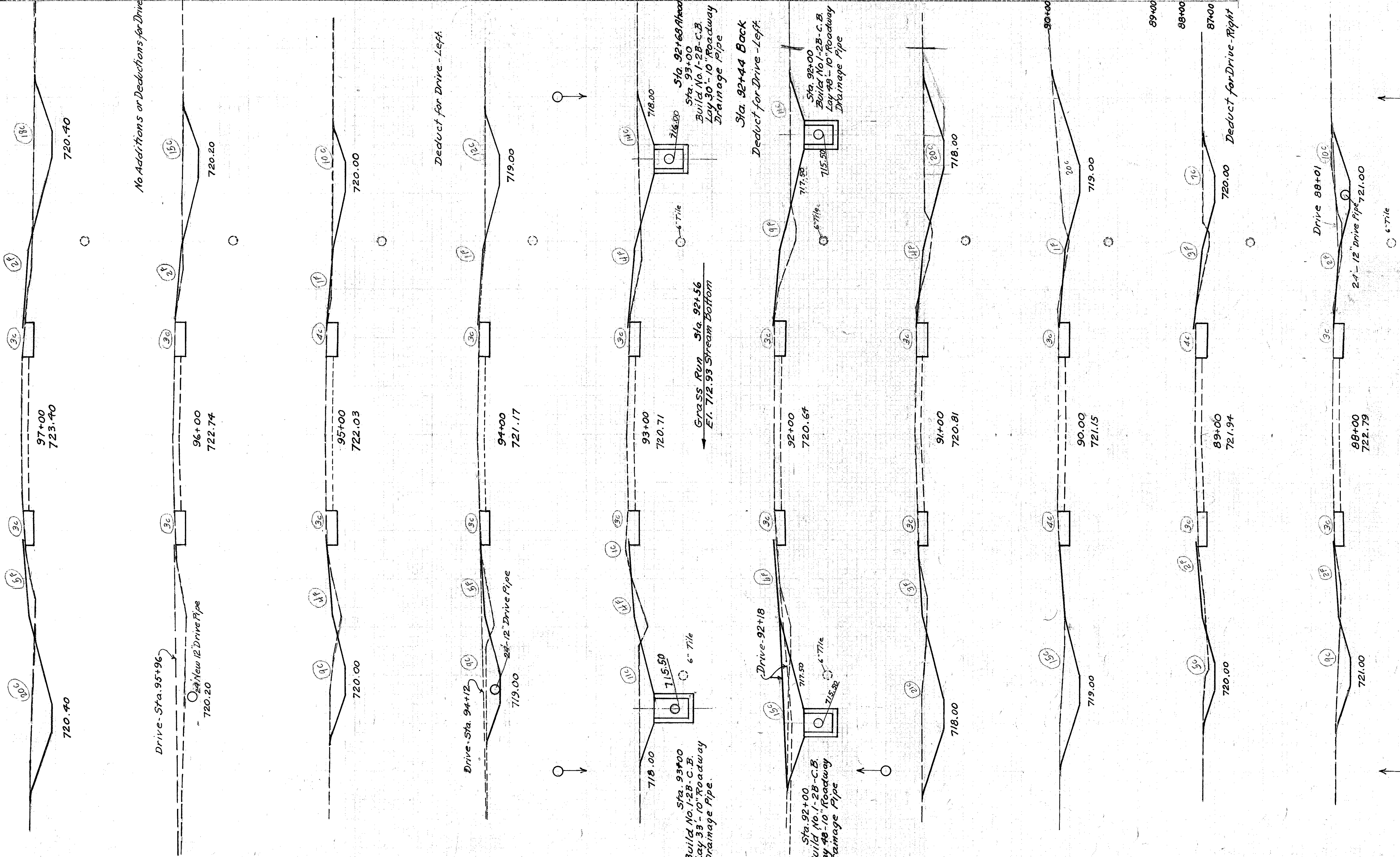
LEND AREA	CUT	FILL	CUT	FILL	CU. YDS.
16	7				87
31	7				115
31	8				133
41	11				150
40	13				144
38	11				150
43	12				165
46	14				163
51a, 79+00	42				-8
78+00	38	19			124
77+00	29	18			111
76+00	31	8			48

2 OHIO 1948 28
 41
 FULTON COUNTY
 FUL-2-4.36
 FUL-66-(3.9T-4.9T)

SEEDING
WIDTH SQ YDS

40 30 20 10 0 10 20 30 40

END AREA CU. YDS
CUT FILL CUT FILL



44 7

120 17

21 2

87 17

26 7

98 24

-6 -4

27 6

109 26

32 8

32 8

32 15

32 15

146 41

47 7

165 15

30+00 42 1

113 11

89+00 19 5

81 17

88+00 25 4

76 20

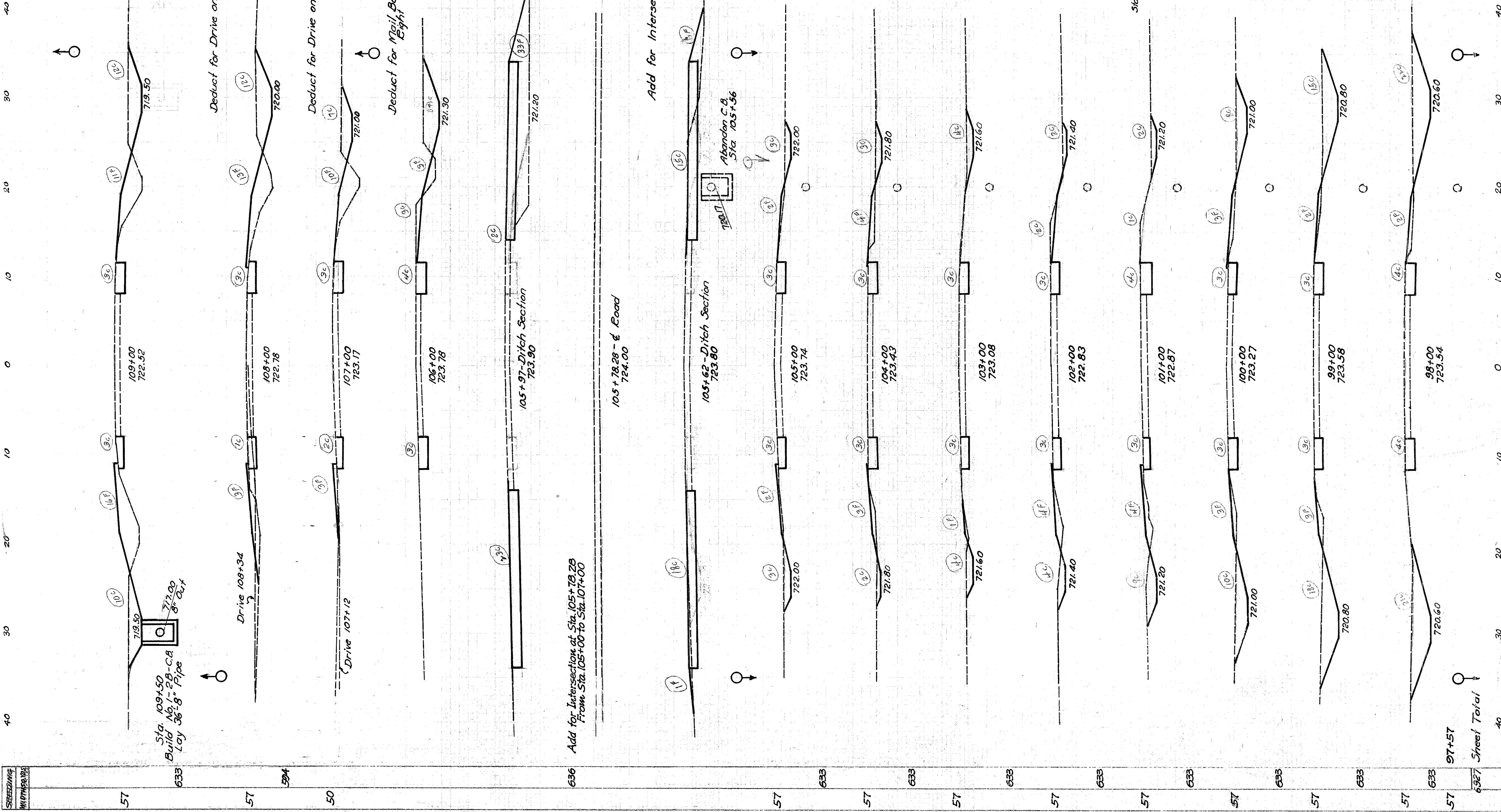
87+00 16 7

-3 -4

6296 Sheet Total

2 OHIO 1948 29 41
FULTON COUNTY
FUL-2-4.36
FUL-66-(397-4.97)

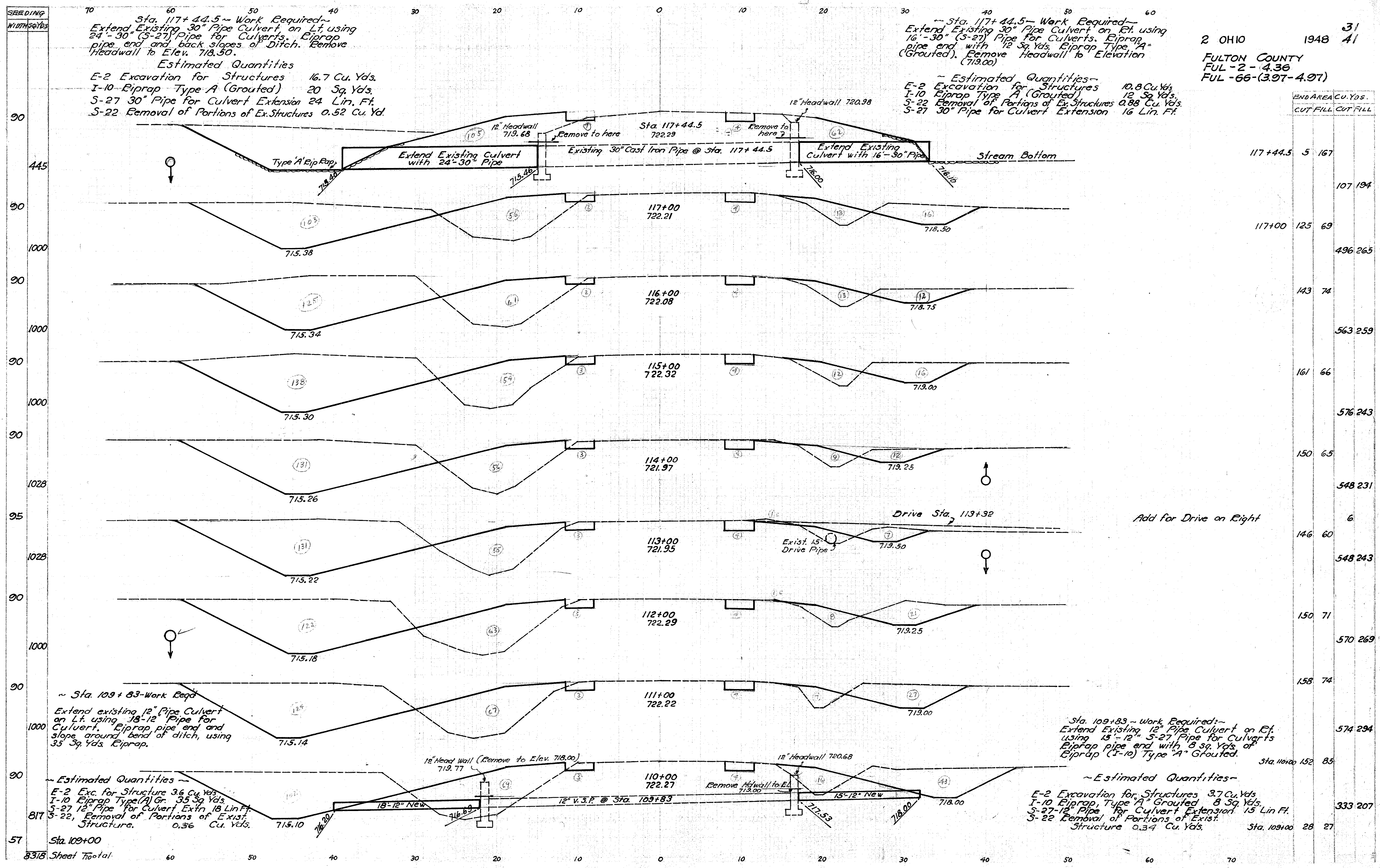
STRENGTH
NO. 17182-103



END AREA	CU. YDS.	CUT	FILL	CUT	FILL
28	27				
81	80				
16	16				
52	54				
12	13				
67	30				
24	3				
57	28				
7	12				
0	0				
150	46				
25	0				
43	4				
12	4				
43	20				
11	7				
46	15				
14	1				
52	9				
14	4				
61	15				
80	19				
6	24				
117	20				
5	39				
167	13				
98+00	51				
97+00	44				

2 OHIO 1948 41
 FULTON COUNTY
 FUL-2-4.36
 FUL-66-(3.97-4.97)

97+57
 Sheet Total



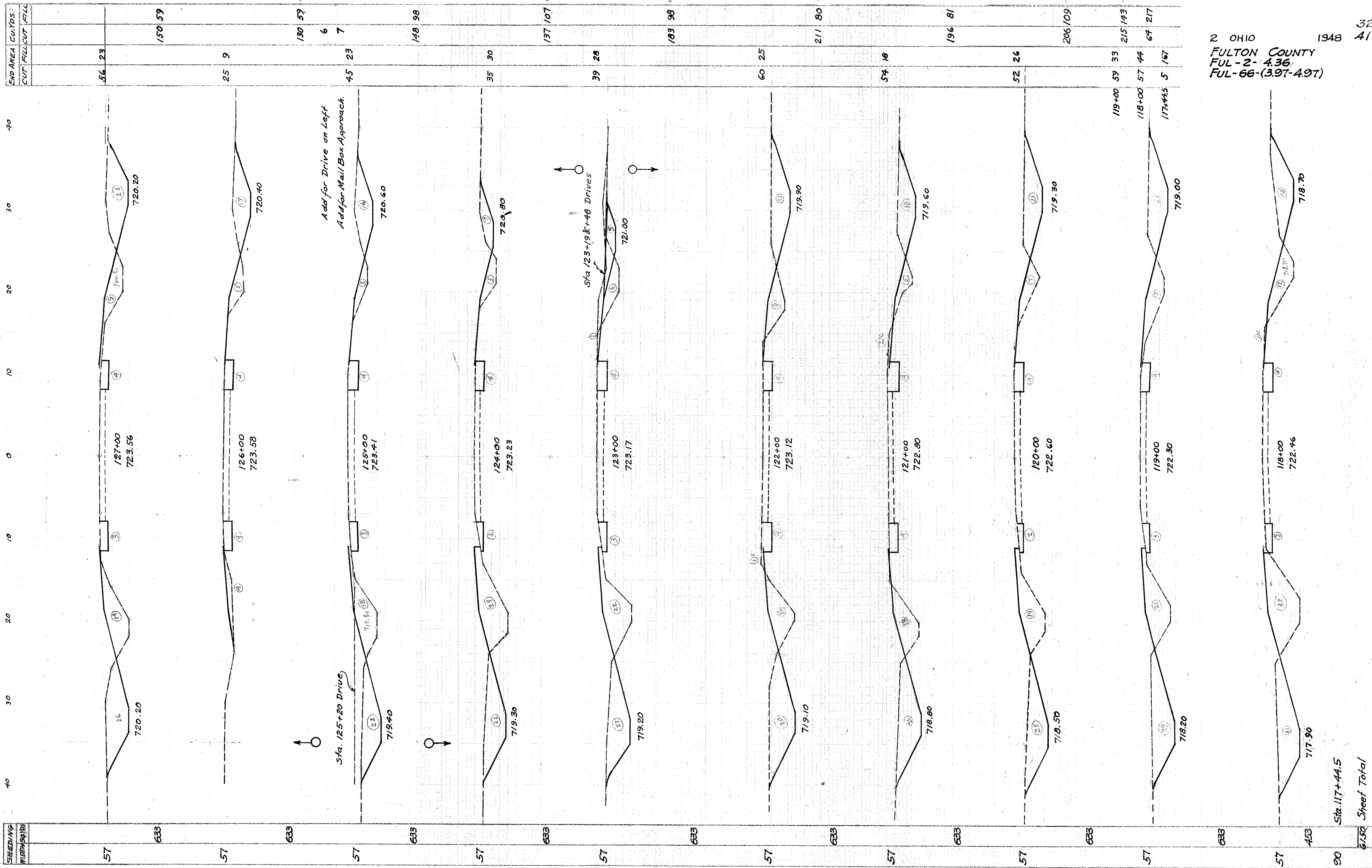
Sta. 117+44.5 ~ Work Required ~
 Extend Existing 30" Pipe Culvert on Lt. using
 24'-30" (S-27) Pipe for Culverts. Riprap
 pipe end and back slopes of Ditch. Remove
 Headwall to Elev. 718.50.
 Estimated Quantities
 E-2 Excavation for Structures 16.7 Cu. Yds.
 I-10 Riprap Type A (Grouted) 20 Sq. Yds.
 S-27 30" Pipe for Culvert Extension 24 Lin. Ft.
 S-22 Removal of Portions of Ex. Structures 0.52 Cu. Yd.

Sta. 117+44.5 ~ Work Required ~
 Extend Existing 30" Pipe Culvert on Rt. using
 16'-30" (S-27) Pipe for Culverts. Riprap
 pipe end with 12 Sq. Yds. Riprap Type "A"
 (Grouted). Remove Headwall to Elevation
 (719.00)
 Estimated Quantities
 E-2 Excavation for Structures 10.8 Cu. Yds.
 I-10 Riprap Type A (Grouted) 12 Sq. Yds.
 S-22 Removal of Portions of Ex. Structures 0.88 Cu. Yds.
 S-27 30" Pipe for Culvert Extension 16 Lin. Ft.

Sta. 109+83 ~ Work Req'd ~
 Extend existing 12" Pipe Culvert
 on Lt. using 18'-12" Pipe for
 Culvert. Riprap pipe end and
 slope around bend of ditch, using
 35 Sq. Yds. Riprap.
 Estimated Quantities
 E-2 Exc. for Structure 3.6 Cu. Yds.
 I-10 Riprap Type (A) Gr. 35 Sq. Yds.
 S-27 12" Pipe for Culvert Extn 18 Lin. Ft.
 S-22 Removal of Portions of Exst.
 Structure. 0.36 Cu. Yds.

Sta. 109+83 ~ Work Required ~
 Extend Existing 12" Pipe Culvert on Rt.
 using 15'-12" S-27 Pipe for Culverts
 Riprap pipe end with 8 Sq. Yds. of
 Riprap (I-10) Type "A" Grouted.
 Estimated Quantities
 E-2 Excavation for Structures 3.7 Cu. Yds.
 I-10 Riprap, Type "A" Grouted 8 Sq. Yds.
 S-27 12" Pipe for Culvert Extension 15 Lin. Ft.
 S-22 Removal of Portions of Exst.
 Structure 0.34 Cu. Yds.

END AREA	CU. YDS.	CUT	FILL	CUT	FILL
117+44.5	5	167			
				107	194
117+00	125	69			
				496	265
	143	74			
				563	259
	161	66			
				576	243
	150	65			
				548	231
	146	60			
				548	243
	150	71			
				570	269
	158	74			
				574	294
Sta. 109+00	152	85			
				333	207
	28	27			



END AREA	CO. YDS.	CUT	FILL	FILL
56	23			
		150	59	
25	9			
		130	59	
		6	7	
45	23			
		148	98	
		35	30	
		137	107	
39	26			
		183	98	
		60	25	
		211	80	
54	16			
		196	81	
52	26			
		206	109	
119+00	59	33	215	143
118+00	57	44	64	217
117+44.5	5	167		

2 OHIO 1948 32
 41
 FULTON COUNTY
 FUL-2-436
 FUL-66-(397-497)

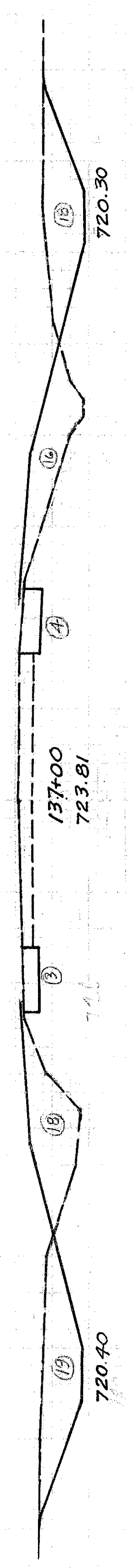
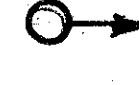
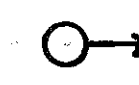
Sta. 117+44.5
 Sheet Total

SEEDING
WIDTH 40' TO 100'

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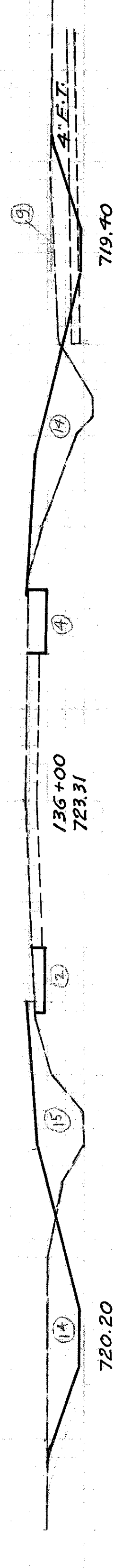
END AREA CU. YDS.
CUT FILL CUT FILL

44	34	135	117	104	117	107	120	117	102	124	74	137	76	39	25	159	113	47	36	143	133	129	400	30	36	124	119	128	400	37	28	172	94	127	400	56	23
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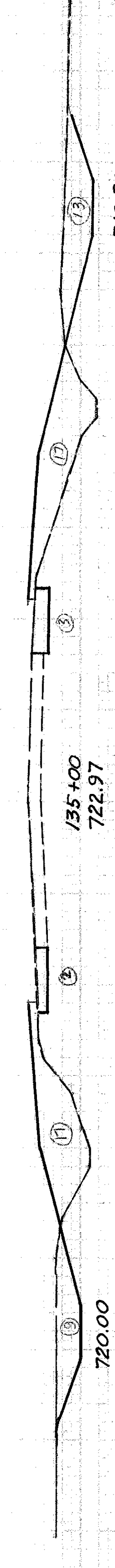
57

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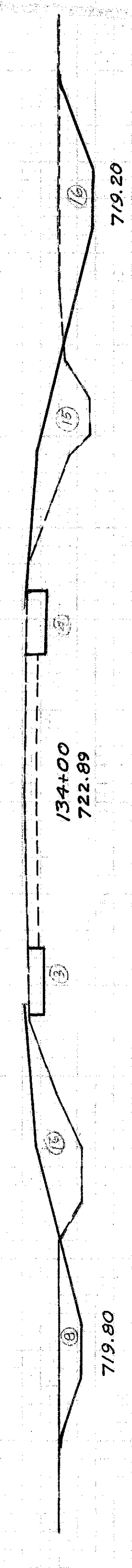
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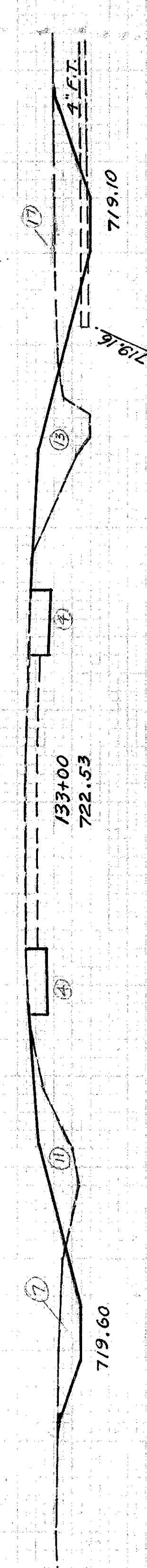
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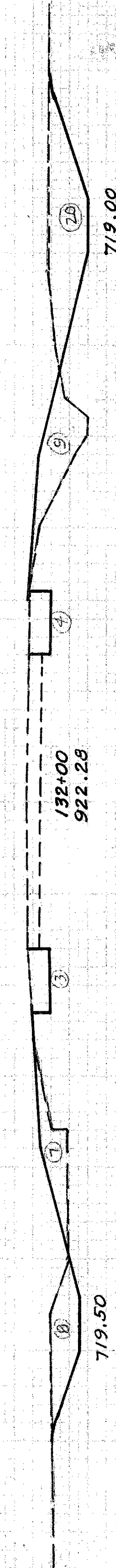
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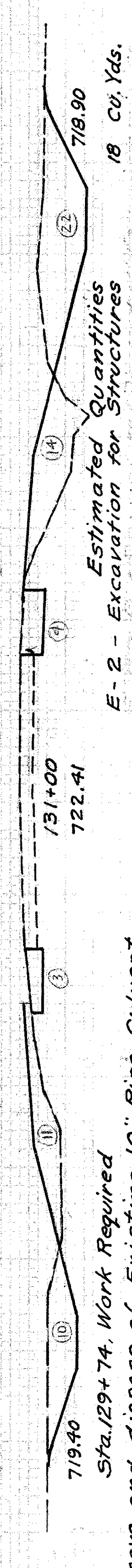
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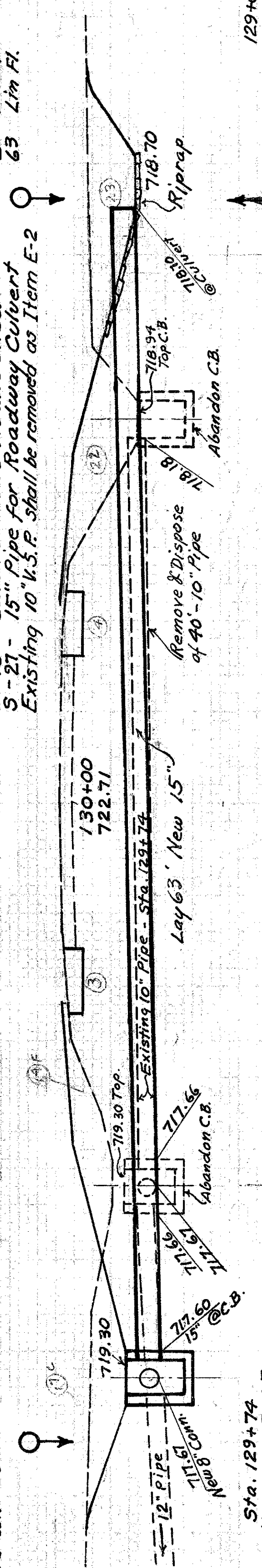


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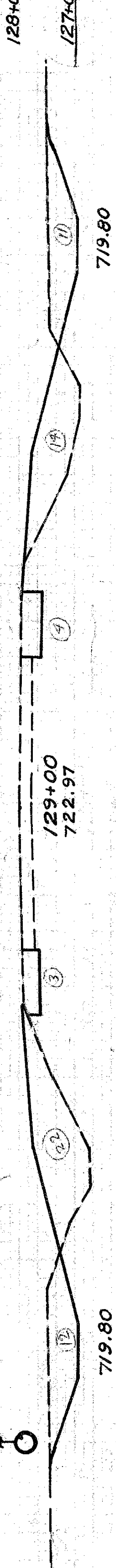
Remove and dispose of Existing 10" Pipe Culvert.
Abandon Existing Catch Basins. Lay 63" - 15" Pipe
for Culvert and build New No. 1-28 Catch Basin
on Left. Lay 8" Pipe from New Basin to Existing
8" Line, using 24" - 8" pipe and 1-8" x 45" Bend.
Make all Connections.

E-2 - Excavation Quantities
18 Cu. Yds.
Each
1 - Standard No. 1-28 Catch Basin
4 - Removal and Disposal of Exst. Pavt
4 - Pavement Replacement
1 - 10" Riprap-Type A (Grouted)
1 - 16" Catch Basins Abandoned
5 - 27" 15" Pipe for Roadway Culvert
Existing 10" I.S.P. shall be removed as Item E-2



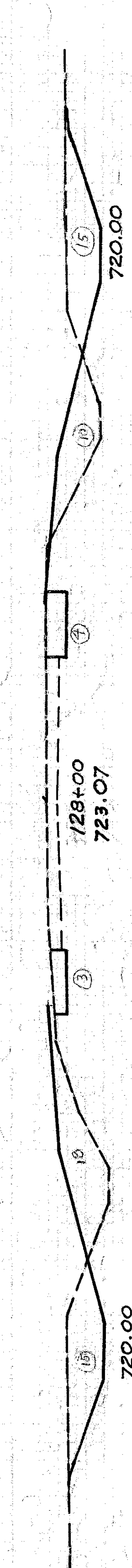
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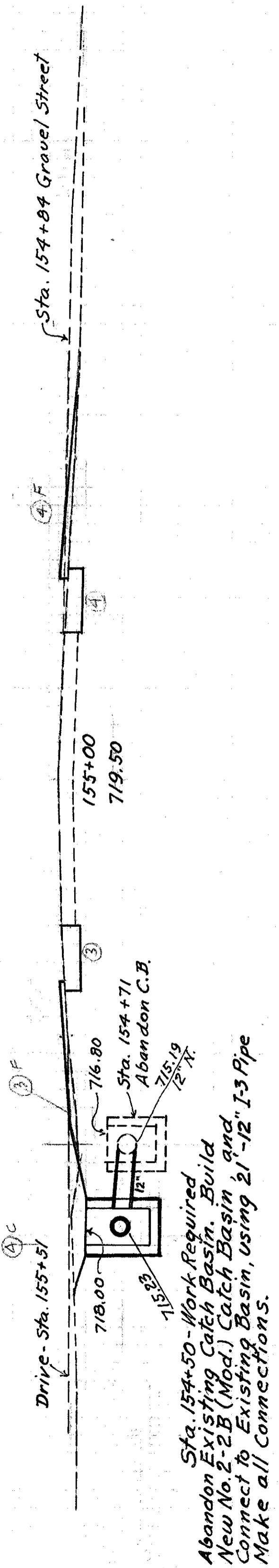
Sta. 127+00

6330 Sheet Total

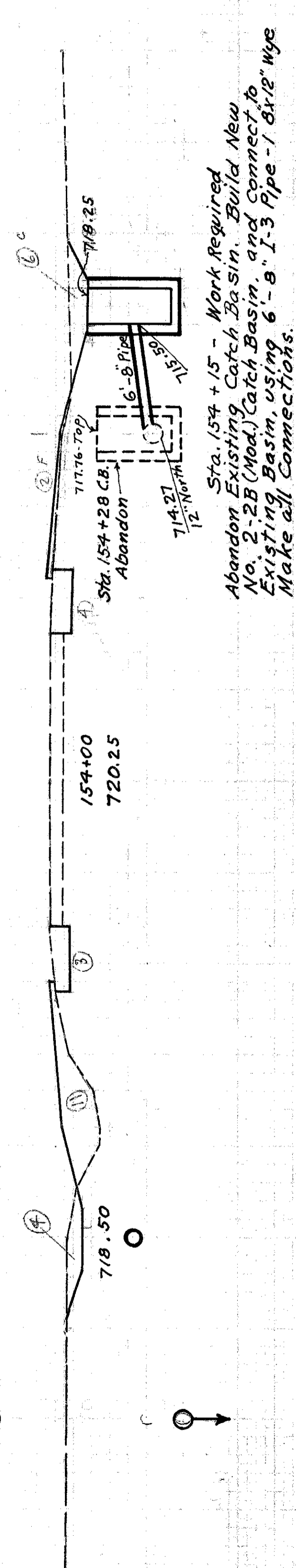
SEEDING
WATER

40 30 20 10 0 10 20 30 40

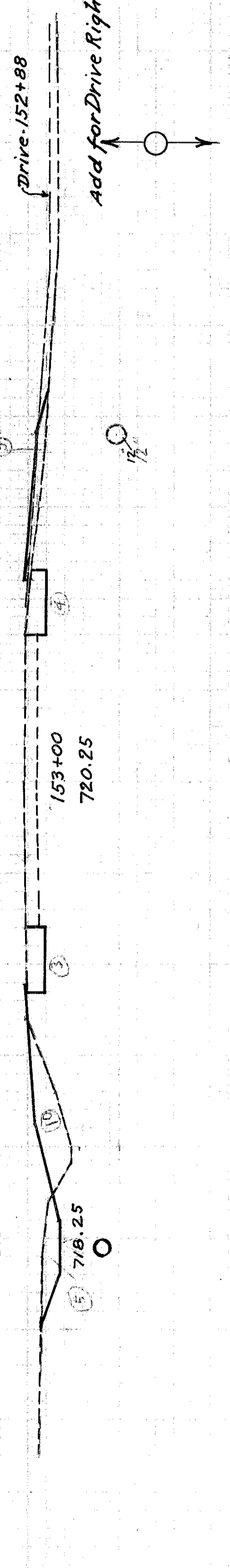
END AREA CU. YDS.
CUT FILL CUT FILL



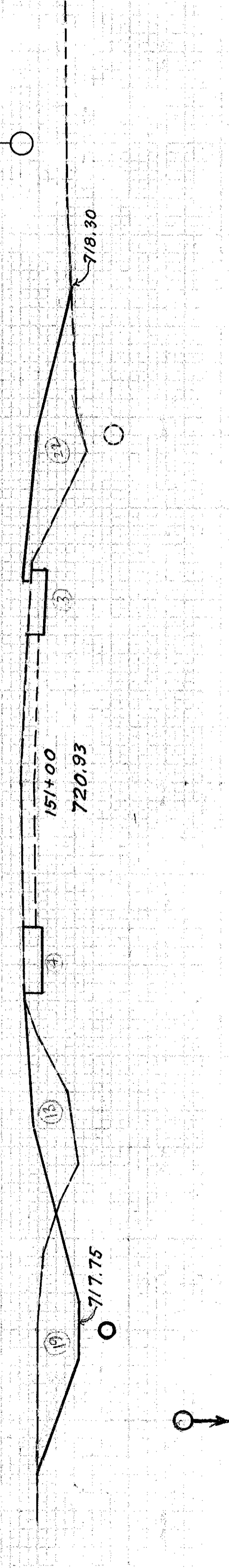
Sta. 154+50 - Work Required
Abandon Existing Catch Basin. Build
New No. 2-2B (Mod.) Catch Basin and
Connect to Existing Basin, using 21"-12" I-3 Pipe
Make all Connections.



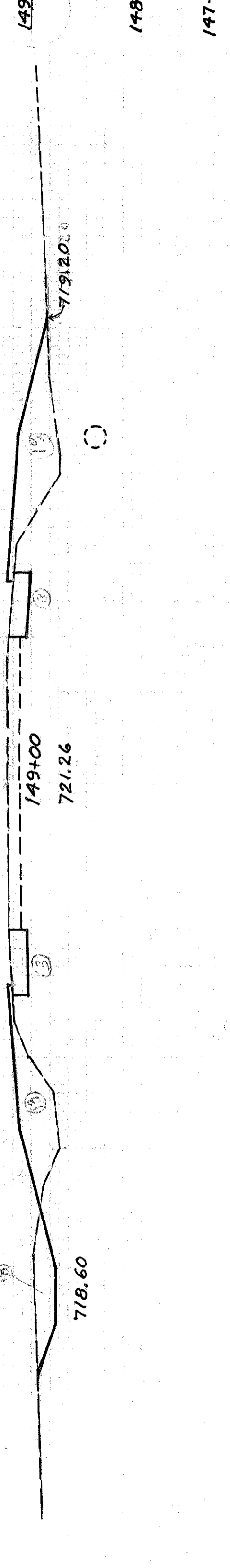
Sta. 154+15 - Work Required
Abandon Existing Catch Basin. Build New
No. 2-2B (Mod.) Catch Basin, and Connect to
Existing Basin, using 6"-8" I-3 Pipe - 1 8x12" Wye
Make all Connections.



Sta. 151+53 - Work Required.
Abandon Existing Basin and Build New
No. 1-2B Catch Basin in New Ditch. New
Connect New Basin to Old Basin, using
6"-8" I-3 Pipe. Make all Connections
1-8x12" Tee



Sta. 150+00 - Work Required
Build New No. 1-2B Catch Basin.
Make all Connections.



2 OHIO
FULTON COUNTY
FUL-2-436
FUL-66-(397-497)

56 Sta. 147+00

50.59 Sheet Total

1948 41

35

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11 7

52 37

17 13

54 52

12 15

2

67 61

24 18

93 98

26 35

100 115

28 27

78 107

149+00 14 31

148+00 15 29

147+00 18 27

54 111

61 104

