

# STATE OF OHIO DEPARTMENT OF HIGHWAYS MED-252-3.76

S-1169(1)

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	S-1169(1)	

1  
27

MED-252-3.76

## MEDINA COUNTY LIVERPOOL TOWNSHIP

### CONVENTIONAL SIGNS

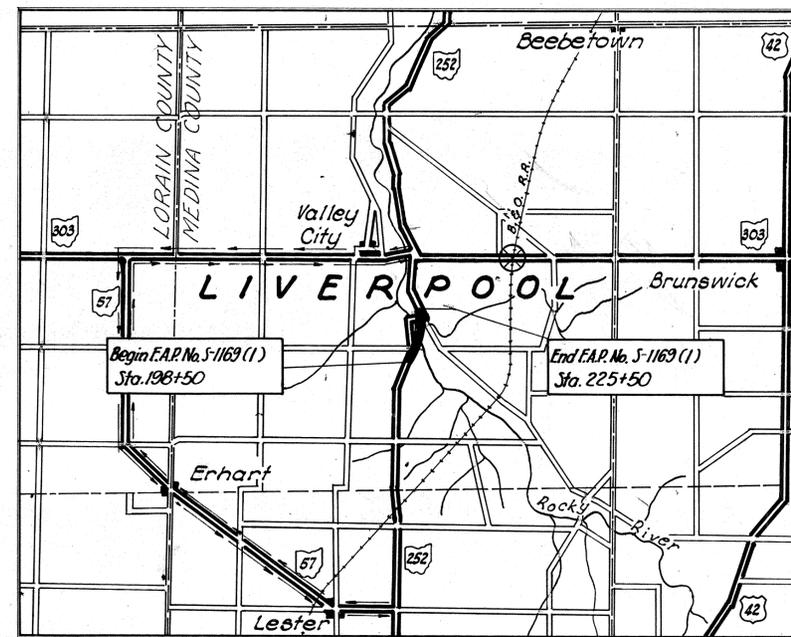
- County Line \_\_\_\_\_
- Township Line \_\_\_\_\_
- Corporation Line \_\_\_\_\_
- Center Line \_\_\_\_\_
- Railroad Line \_\_\_\_\_
- Pole Line (Telephone & Power) Ⓟ Ⓟ Ⓟ Ⓟ Ⓟ

### INDEX OF SHEETS

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Road Approach	10
Culvert & Road Approach	11
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### LINE DATA

BEGIN	WORK	PROJECT
Sta. 197+70	Sta. 197+70	Sta. 198+50
END	Sta. 226+00	Sta. 225+50
GROSS LENGTH	2830 Lin.Ft.	2700 Lin.Ft.
NO ADDITIONS OR DEDUCTIONS		
NET LENGTH	2830 Lin.Ft.	2700 Lin.Ft.
	or 0.535 Miles	or 0.511 Miles



### LOCATION PLAN

Portion to be Improved  
 State Highways \_\_\_\_\_  
 Other Roads \_\_\_\_\_  
 Detours Shown Thus \_\_\_\_\_

### 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 require the part time closing of the Highway to traffic as noted on Sheet No. 4, during which time detours will be provided as shown hereon. Provisions for the maintenance and safety of traffic will be as set forth on the Plans and Estimates.

Approved [Signature]  
 Date 2-2-54 Division Deputy Director

Approved [Signature]  
 Date 1-19-54 Deputy Director of Planning and Programming

Approved [Signature]  
 Date \_\_\_\_\_ Engineer of Bridges

Approved [Signature]  
 Date 11-1-54 Engineer of Location & Design

Approved [Signature]  
 Date 11-1-54 Deputy Director of Design and Construction

Approved [Signature]  
 Date 11-19-54 First Assistant Director

Approved [Signature]  
 Date 11-1-54 Director of Highways

\*\*Submitted to B.P.R. for Approval  
 \*Accepted by B.P.R.

STANDARD CONSTRUCTION DRAWINGS			
*I-8 C.B. 1-2A&B	5-1-52	*T-15 No. 2	12-1-54
*G-107	1-2-53	*T-35	10-1-52
*RI-1	6-1-53	AS-3-47/AS-4-47	7-27-49
I-12,34&5	2-20-45		
S-27 PC-3	2-20-45		
L-1	4-1-50		
L-3	4-1-50		
L-3A	4-1-50		
**I-15 No.1	12-1-54		

SUPPLEMENTAL SPECIFICATIONS	
B-119 Rev.	12-1-54
L-209.12	7-17-54

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

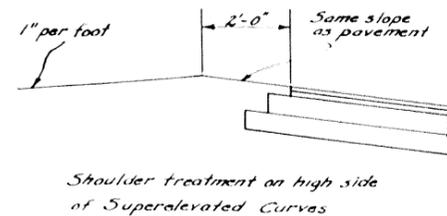
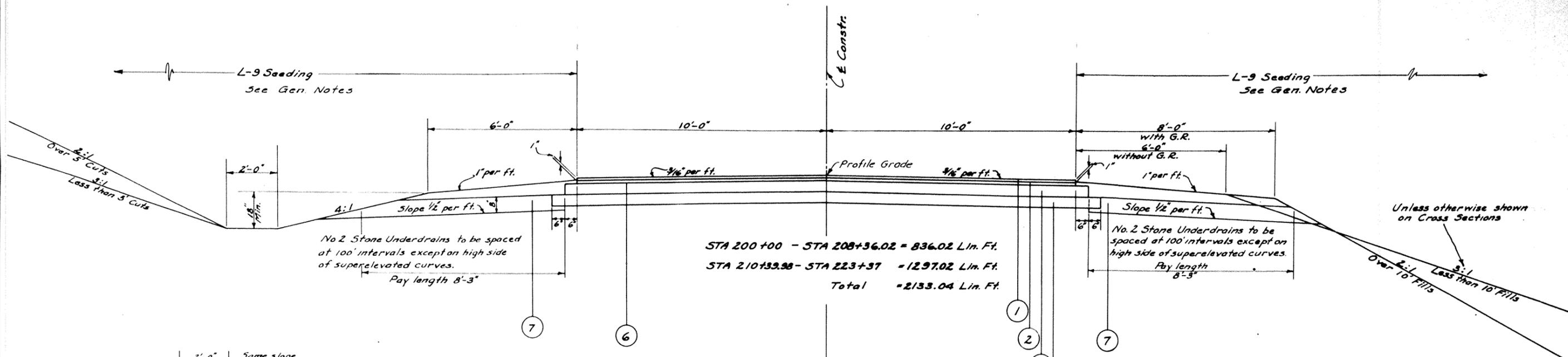
APPROVED: \_\_\_\_\_  
 DISTRICT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

File No. MED-252-3.76  
 Date of Letting \_\_\_\_\_  
 Contract No. \_\_\_\_\_

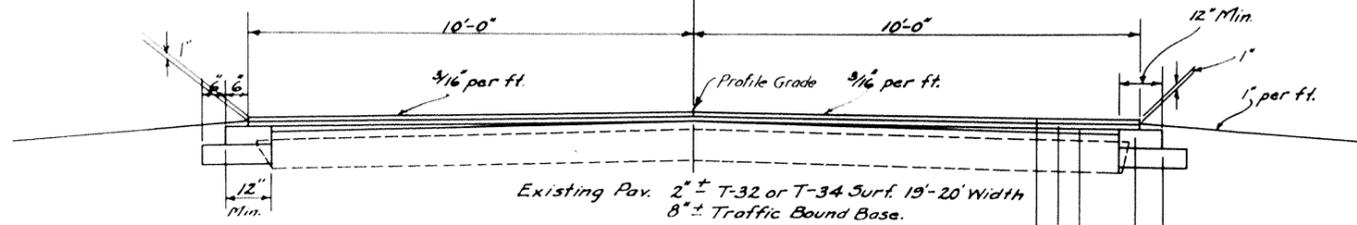
# TYPICAL SECTIONS T-35

FED. NO. DIVISION	STATE	PROJECT	SHEET NO.
2	OHIO		27

MED-252-S.W.

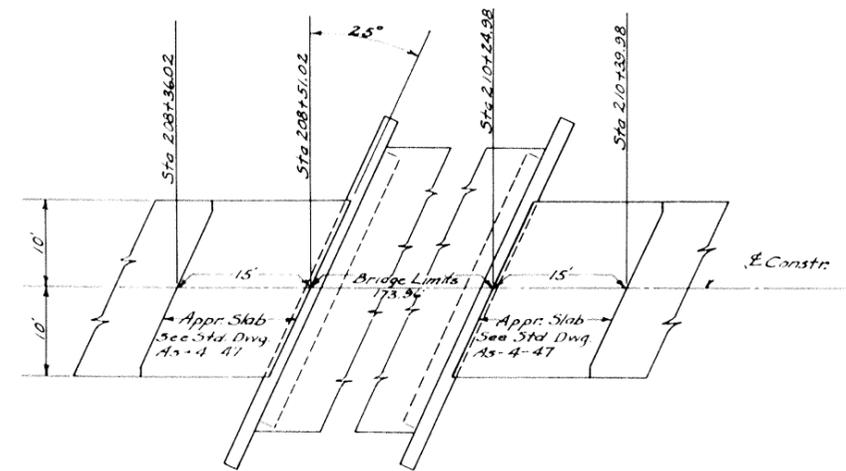


Note:- Details of shoulders, slopes and ditches not shown are to conform with Standard Drawing No. RI-1 unless otherwise shown on cross sections.



$STA\ 198+50 - STA\ 200+00 = 150\ Lin.\ Ft.$   
 $STA\ 223+37 - STA\ 225+50 = 213\ Lin.\ Ft.$   
**Total = 363 Lin. Ft.**

Sta 198+50 - Sta 200+00 widens on Lt. only varies from 12" to 6'-0"±  
 Sta 223+37 - Sta 225+50 widens on Lt. + Rt. varies from 2'-6" on Lt. to 12" on Rt.



⊕ To be placed prior to any widening operations in courses not to exceed 3" in depth.

- ① T-35 1 1/4" Asphaltic Concrete Surface Course Type A (85-100)
- ② B-35 1 1/4" Min. Asphaltic Concrete Leveling Course (85-100)
- ③ B-35 ⊕ 0" Min. Asphaltic Concrete Preleveling Course (85-100)
- ④ B-119 5" Crushed Aggregate Base Course.
- ⑤ I-22 5" Subbase
- ⑥ T-30 Bituminous Prime Coat, Sec M-5.7 RT-2 or RT-3 or Sec M-5.3 MC-0 or MC-1 applied at rate of 0.35 Gal. per Sq. Yd.
- ⑦ I-9 Std. No. 2 Stone Underdrains.
- ⑧ B-35 1 1/4" Asphaltic Concrete Leveling Course (85-100)

**ESTIMATED QUANTITIES - APPROACH SLABS**

T-35	1 1/4" Asphaltic Concrete Surface Course	66.7 Sq. Yds.
B-35	1 1/4" Asphaltic Concrete Leveling Course	66.7 Sq. Yds.
I-7	Reinforced Concrete Approach Slabs	66.7 Sq. Yds.
* T-30	Bituminous Tack Coat	7 Gal.
I-22	5" Subbase	11 Cu. Yds.
E-1	Compacted Subgrade	66.7 Sq. Yds.

\* Item T-30 Bituminous Tack Coat, Sec M-5.5 MS-2 or SS-1 or Sec M-5.2 RC-1 or RC-2 applied at rate of 0.10 Gal. per Sq. Yd. (See note in Proposal.)

## SUMMARY

**EARTHWORK TABLE**

Sheet No.	Excavation	Embankment	Emb.+20%
6	449	8261	9913
7	499	10100	12120
8	706	1599	1919
<b>Totals</b>	<b>1654</b>	<b>19960</b>	<b>23952</b>

23952 - 1654 = 22298 Cu.Yds. Borrow

CODE 6201									
Calc. Station	2	4	6	7	8	ITEM	QUANT.	UNITS	DESCRIPTION
									<b>ROADWAY</b>
5467						E-1	1654	Cu.Yds.	Roadway Excavation
						E-1	5467	Sq.Yds.	Compacted Subgrade
						E-4	22298	Cu.Yds.	Borrow
			278	300		E-8	578	Sq.Yds.	Removal and Disposal of Existing Pavement.
						E-9	Lump Sum	Lump Sum	Removal of Trees and Stumps.
128						E-11	128	M.Gal.	Water
			56		38	E-12	94	Lin.Ft.	Pipe Removed (15" and Under)
25600						L-9	25600	Sq.Yds.	Seeding and Protecting
2.30						L-9	2.30	Tons	Commercial Fertilizer (10-6-4)
			450	477.08	125	I-15	1052.08	Lin. Ft.	Guard Rail Steel Beam Type (Deep)
						T-10	20	Cu.Yds.	Traffic Compacted Surface Course for Maintaining Traffic
			28			I-1	28	Lin. Ft.	8" Pipe for Driveways.
					28	I-1	28	Lin. Ft.	12" Pipe for Driveways
					28	I-1	28	Lin. Ft.	15" Pipe for Driveways
			172		194	I-2	366	Lin. Ft.	12" Class "A" Storm Sewers
			28		28	I-2	56	Lin. Ft.	12" Class "A" Storm Sewers under Pavement or Approaches
				1	1	I-8	2	Each	Catch Basins Std No 1-2A
347						I-9	347	Lin. Ft.	Stone Underdrains No.2
			13	13	54	I-10	80	Sq.Yds.	Riprap Type "A" Grouted.
			9	11	6	E-2	26	Cu.Yds.	Excavation for Structures.
					29	E-3	29	Cu.Yds.	Channel Excavation
			54	58		S-27	112	Lin. Ft.	15" Pipe for Roadway Culverts
					48	S-27	48	Lin. Ft.	12" Standard Strength Reinforced Conc. Culv. Pipe Sec. M-6.6(b) for Roadway Culverts.
									<b>PAVEMENT</b>
266						T-35	266	Cu.Yds.	Asphaltic Concrete Surface Course Type "A" (85-100)
393						B-35	393	Cu.Yds.	Asphaltic Concrete Leveling Course (85-100)
						I-7	67	Sq.Yds.	Reinforced Concrete Approach Slabs.
925						B-119	925	Cu.Yds.	Crushed Aggregate Base.
782						I-22	782	Cu.Yds.	Subbase
						T-30	7	Gals.	Bituminous Tack Coat. As per plan.
1895						T-30	1895	Gals.	Bituminous Prime Coat, Sec M-5.7 RT-2 or RT-3 or Sec M-5.3 MC-0 or MC-1
									STRUCTURES OVER 20' SPAN See Sheet No.23 for Quantities.

# GENERAL NOTES

MED-252-8.76

**SEEDING AND PROTECTING:**  
 Seed shall be sown at the rate of 3 pounds per 1000 sq. ft. and shall have a formula of 70% Kentucky 31 Fescue, 15% Kentucky Blue Grass, 10% Domestic Rye Grass, 5% Alsike Clover. Quantities for seeding are calculated for the soil areas within the construction limits as shown on the cross sections and payment for seeding beyond these limits will not be allowed.

Seeding areas shall be fertilized using a Commercial Fertilizer having a formula of 10-6-4.

**DESIGN SPEED:-** 50 miles per hour.

**UTILITY ADJUSTMENTS:-** Any and all work required for the adjustment of public and private utilities shall be done by and at the expense of their respective owners unless otherwise noted on the plans.

**FIELD OFFICE:-** The contractor shall provide a suitable field office in accordance with Section 5-0.01(b) having a minimum floor area of 150 sq. ft. The contractor shall have a telephone installed and maintained during the construction of this project.

**SANITARY:-** No drains, either existing or proposed, carrying domestic wastes shall be connected to any portion of the proposed drainage system on this project.

**MAIL BOX TURNOUTS:-** The estimated number of five (5) mail box turnouts for this project are included in calculations for payment of T-35 and B-119 quantities. The grouping of Mail Boxes and locations of Turnouts shall be determined by the Engineer. Payment will be based on final measurements.

**CALCULATIONS:-** All calculations are on file in the Division Office.

**STONE UNDERDRAINS:-** In the final finishing of slopes and ditches, care shall be exercised to assure that the exposed edges of the stone underdrains will be left free of earth cover that would impede free drainage.

**RIGHT OF WAY:-** Right of way lines are referenced to the Centerline of Right of Way as shown on Right of Way Plans.

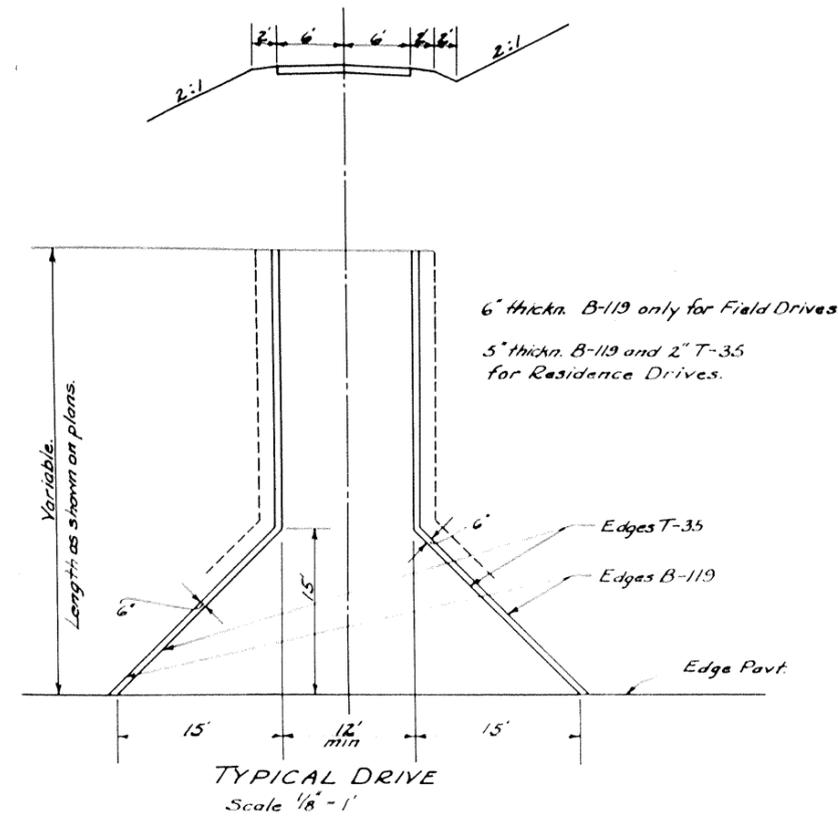
**TREE AND STUMP REMOVAL:-** The number of trees and stumps shown in Table is for informational purposes only and the State of Ohio will not be responsible for any variations found during construction. The lump sum bid for Item E-9 Removal of Trees and Stumps shall constitute full payment for this item, and no additional compensation will be allowed. Trees and Stumps under 12" are not listed.

	12"-18"	18"-24"	24"-30"	30"-36"	36"-42"
Trees	28	2	4	0	1
Stumps	5				

**PAVEMENT REMOVAL:-** Existing pavement is non-rigid. All necessary pavement removal within the construction limits shall be considered E-1 Roadway Excavation and paid for as such. Pavement removal outside the construction limits shall be paid for as Item E-8, Removal of Existing Pavement. After pavement outside of construction limits is removed the old roadway shall be plowed, harrowed, and dragged to a smooth grade, the ditches filled and the entire area left in a neat condition. Cost of this work shall be included in the price bid for Pavement Removal, Item E-8. The areas shall then be seeded and mulched, Item L-9. This seeded area included in summary quantity.

**SUPERELEVATION:-** Superelevated curves shall be built without crown. The crown shall be worked out of the pavement in that portion between the beginning of the transition and the point where the superelevation equals twice the crown.

**TRAFFIC:-** Traffic shall be maintained on the existing facility at all times except for a continuous period not to exceed 60 calendar days, during which time traffic will be detoured as indicated on Sheet 1, and construction completed to a point where traffic can be placed on completed pavement. Closing date shall be at the option of the Contractor, but a minimum of 10 days advance notice shall be given to the Engineer prior to the closing date. Two way traffic shall be maintained except over the existing structure which is only rated as a single lane structure.

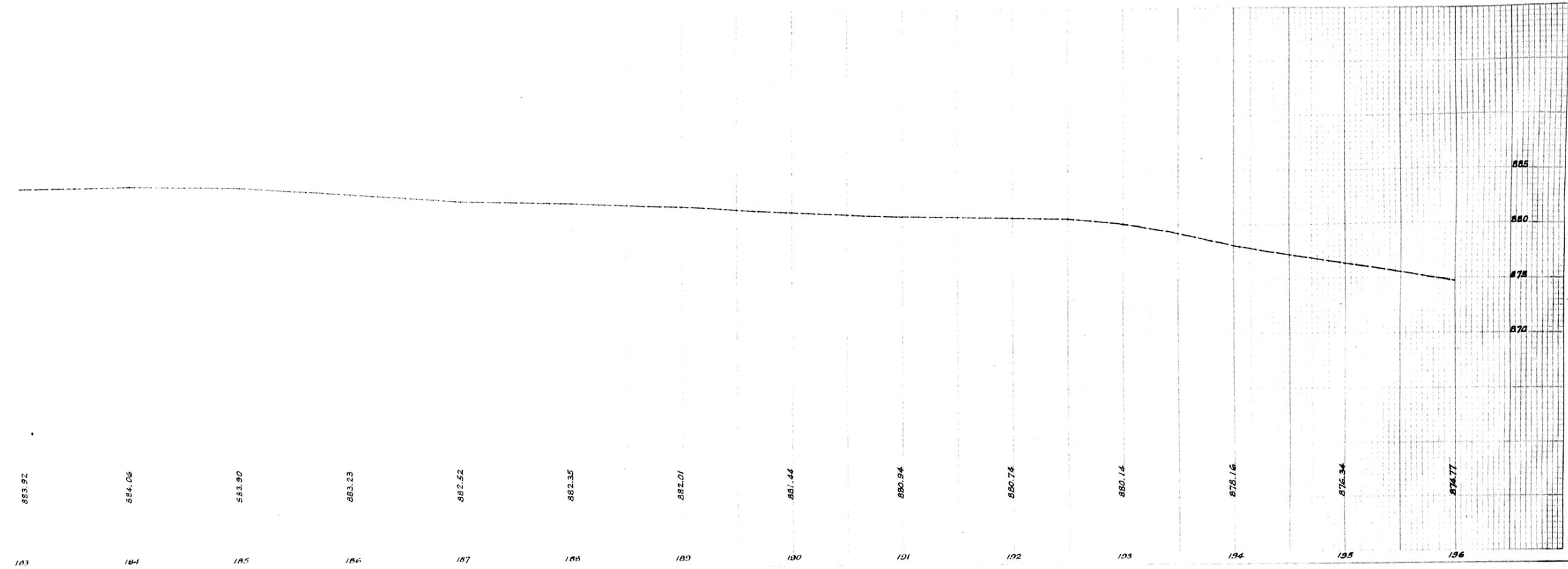
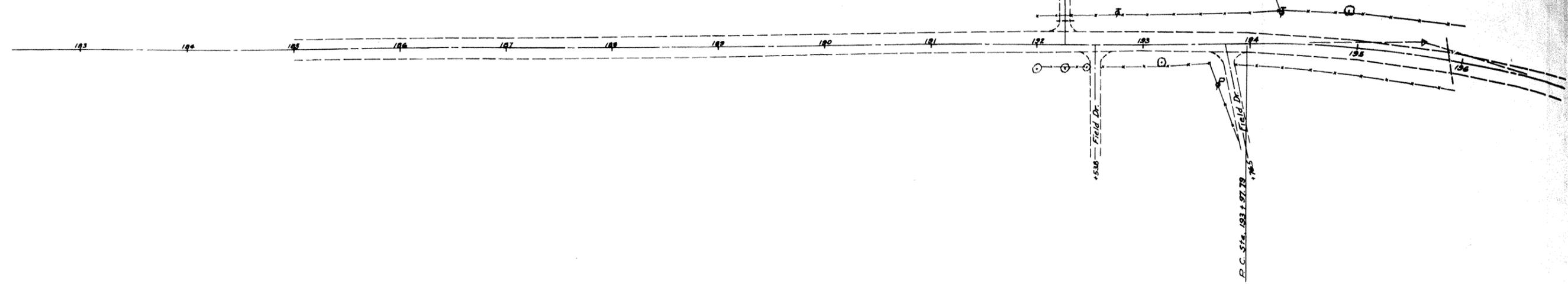


TYPICAL DRIVE  
 Scale 1/8" = 1'

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

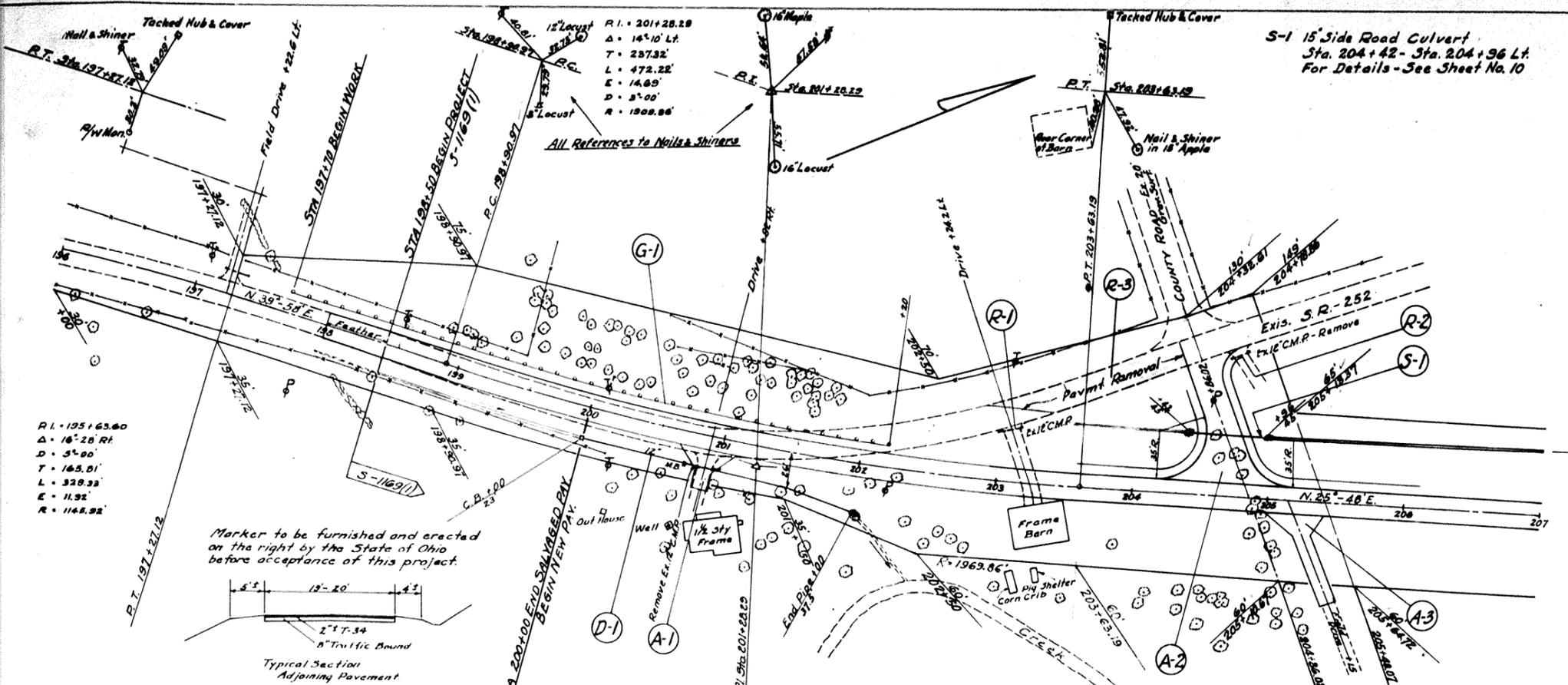
27

MED-262-3.76

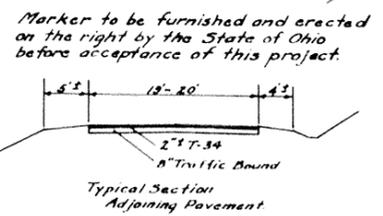


Supplementary Alignment and Profile Sta. 183+00 - Sta. 196+00

S-1 15' Side Road Culvert  
Sta. 204+42 - Sta. 204+96 Lt.  
For Details - See Sheet No. 10



Ret.	From Sheet No.	Station	2" Asph. Conc. Surf. Course Cu. Yds.	I-1 Pipe for Drives Lin. Ft.	I-2 Storm Sew. Lin. Ft.	I-8 Catch Basins Units	I-10 Riprap Type A (rounded) Sq. Yds.	E-12 Pipe Removed and Disposed of Lin. Ft.	I-15 Guard Rail Steel Beam (Deep) Lin. Ft.	E-1 Compacted Subgrade Sq. Yds.	B-119 5" Stab. Cr. Appr. Base Course Cu. Yds.	E-2 Excavation for Structures Cu. Yds.	S-27 Pipe for Eddy Culvert Lin. Ft.	E-8 Pavement Removal Sq. Yds.
A-1	10	200+92 Rt.	3.68	28	12	1-2-A		20			10			
A-2		204+86 Lt.	16.84							303.11	61			
A-3		205+15 Rt.									20			
D-1		200+00-202+00 Rt.		172	28	1	10							
G-1		197+70-202+20 Lt.						450						
R-1		202+99-203+17 Lt.						18						
R-2		204+66-204+86 Lt.						18						
R-3		203+15-204+32 Lt.									9	54	278	
S-1	10	204+42-204+96 Lt.					9							
Totals			20.52	28	172	28	1	13	56	450	303.11	91	9	54

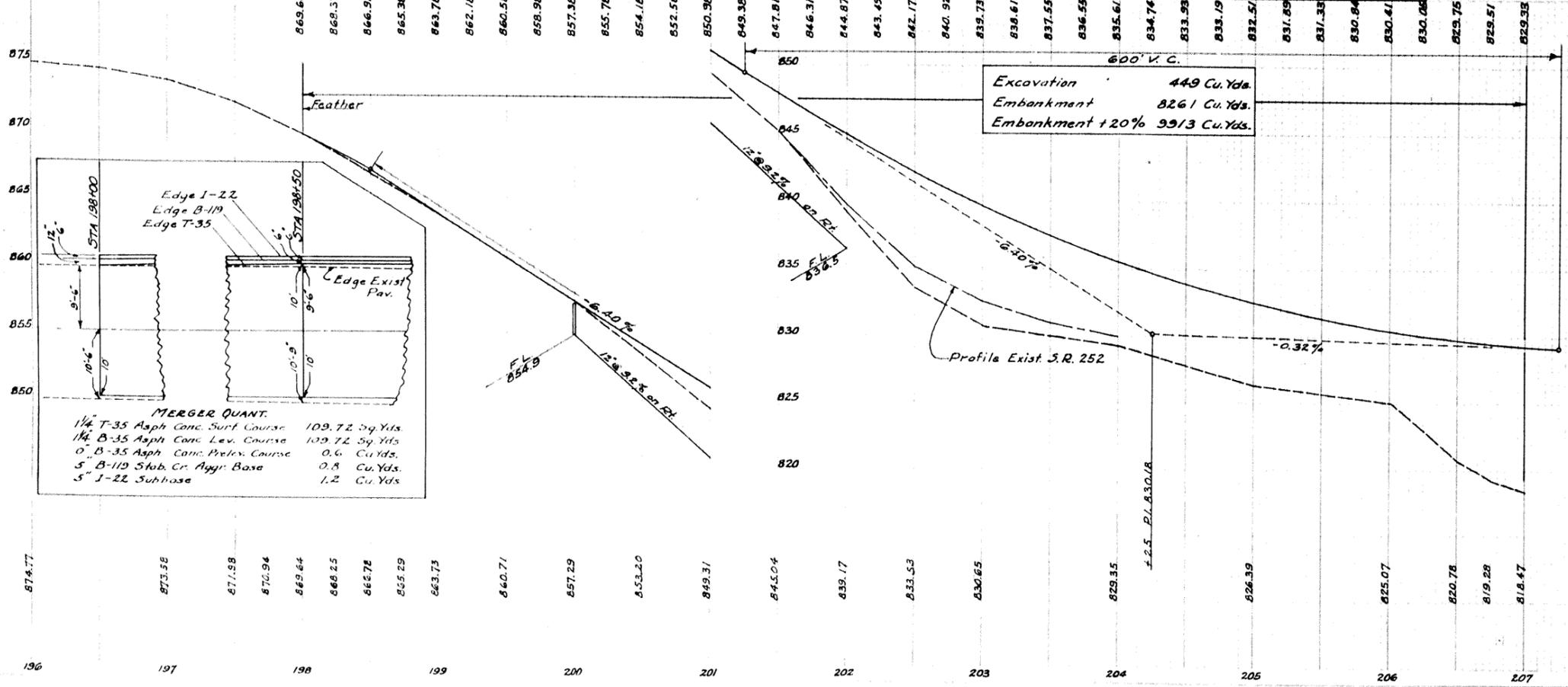


A-2 (from Sheet No. 10) T-30 Prime Coat 106 Gal.

B.M. Top of W Monument  
30' Rt. of Sta. 197+23  
Elev. 874.47

B.M. Spike in Root 15' Maple  
49.5' Rt. of Sta. 200+72.6  
Elev. 853.08

B.M. Spike in 21' Elm  
94.8' Rt. of Sta. 205+31  
Elev. 827.13



MERGER QUANT.

1 1/4" T-35 Asph. Conc. Surf. Course	109.72 Sq. Yds.
1 1/4" B-35 Asph. Conc. Lev. Course	109.72 Sq. Yds.
0" B-35 Asph. Conc. Prelex. Course	0.6 Cu. Yds.
5" B-119 Stab. Cr. Appr. Base	0.8 Cu. Yds.
5" J-22 Subbase	1.2 Cu. Yds.

SUPERELEVATION TABLE

Lt. Edge	Station	Rt. Edge
869.48	198+00	869.48
868.21	+25	868.37
866.82	+50	867.15
865.17	+75	865.66
863.62	199+00	864.27
862.02	+25	862.84
860.42	+50	861.40
858.82	+75	859.80
857.22	200+00	858.20
855.62	+25	856.60
854.02	+50	855.00
852.42	+75	853.40
850.82	201+00	851.80
849.22	+25	850.20
847.65	+50	848.63
846.15	+75	847.13
844.65	202+00	845.63
843.33	+25	844.31
842.01	+50	842.99
840.76	+75	841.74
839.57	203+00	840.55
838.48	+25	839.46
837.39	+50	838.21
836.39	+75	837.04
835.45	204+00	835.94
834.58	+25	834.91
833.77	+50	833.93
833.03	+75	833.03

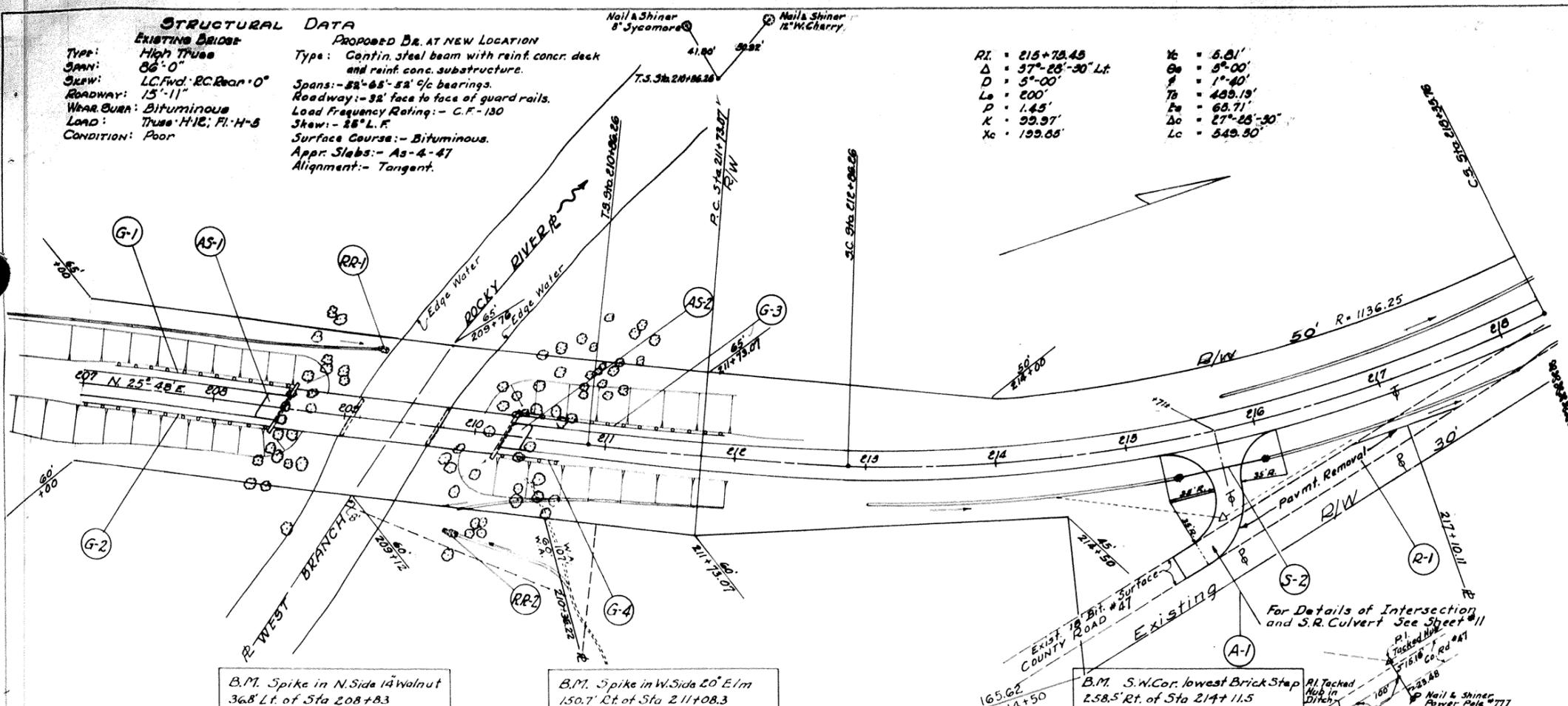
NED-252-876

**STRUCTURAL DATA**  
**EXISTING BRIDGE**  
 Type: High Truss  
 Span: 66'-0"  
 SKEW: LC Fwd. RC Rear 0°  
 Roadway: 15'-11"  
 Wear Sur: Bituminous  
 Load: Truss H-16, Fl. H-8  
 Condition: Poor

**PROPOSED BR. AT NEW LOCATION**  
 Type: Contin. steel beam with reinf. conc. deck and reinf. conc. substructure.  
 Spans: -52'-08"-52'-08" c/c bearings.  
 Roadway: -32' face to face of guard rails.  
 Load Frequency Rating: - G.F.-130  
 Skew: -28° L.F.  
 Surface Course: - Bituminous.  
 Appr. Slabs: - As-4-47  
 Alignment: - Tangent.

RI = 215+78.45  
 Δ = 37°-28'-30" Lt.  
 D = 5'-00"  
 Lc = 200'  
 P = 1.45'  
 K = 99.97'  
 Xc = 199.65'

Yc = 5.81'  
 Gc = 3°-00"  
 F = 1°-40"  
 Tc = 489.19'  
 Ee = 65.71'  
 Δc = 27°-28'-30"  
 Lc = 549.30'



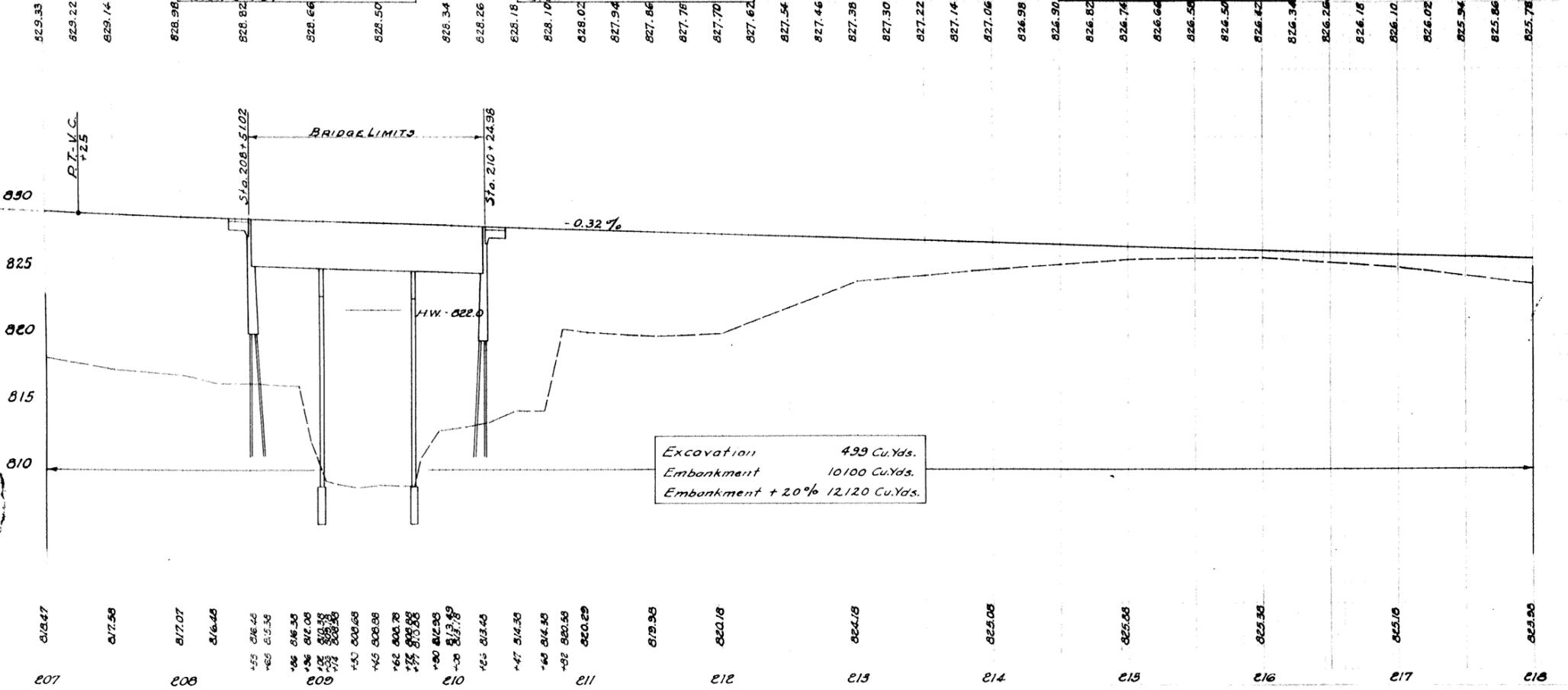
Ref.	From Sheet No.	Station	2" High Conc. Surf. Course	0" High Conc. Surf. Course	3" High Crushed Stone Base Course	4" High Crushed Stone Base Course	1-10 Riprap Type A	1-15 Guard Rail	E-1 Compact Subgrade	E-2 Excavation for Structures	3-27 Pipe for Culverts	E-5 Pavement Removal
A-1	11		16.67	3.00	41	75			196			
RR-1		209+20± Lt.						4				
RR-2		209+90± Rt.						6				
G-1		207+86.66-208+58.48								181.62		
G-2		206+98.14-208+43.56								146.42		
G-3		210+32.44-211+89.96								156.92		
G-4		210+71.52-210+61.64								44.12		
A3-1	*	208+36.02-208+51.02										
A5-2	*	210+24.98-210+39.98										
R-1		215+72-217+00										300
S-2	11	215+42-216+00 Rt.					3			11	58	
Totals			16.67	3.00	41	75	13	47200	196	11	58	300

\* Quantities on Sheet 2

B.M. Spike in N. Side 14' Walnut  
 368' Lt. of Sta 208+83  
 Elev. 816.87

B.M. Spike in W. Side 20' Elm  
 150.7' Lt. of Sta 211+08.3  
 Elev. 823.38

B.M. S.W. Cor. lowest Brick Step  
 258.5' Rt. of Sta 214+11.5  
 Elev. 830.87



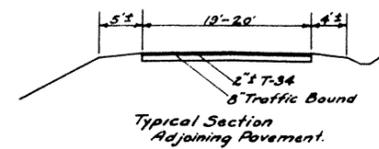
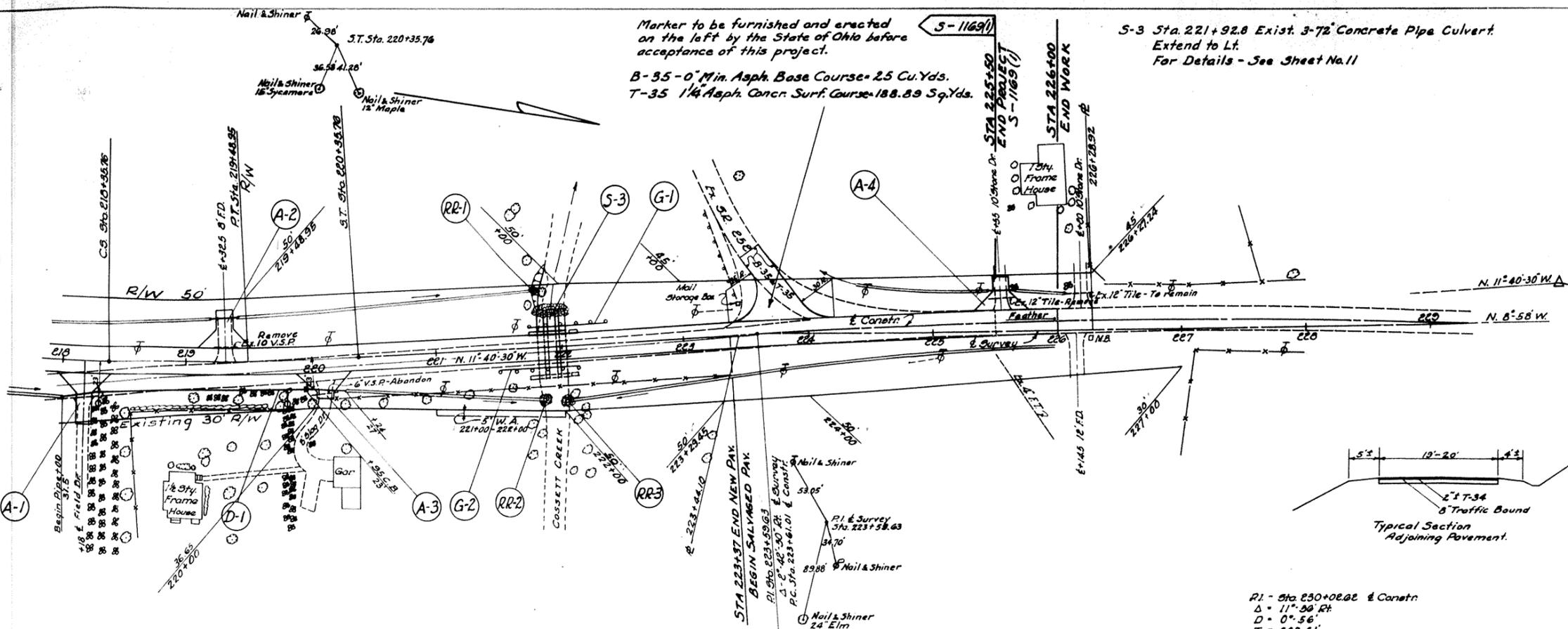
**SUPERELEVATION TABLE**

Width on Lt.	Lt. Edge	Station	Rt. Edge	Width on Rt.
10.00	828.02	210+50	828.02	10.00
10.00	827.94	+75	828.02	
10.00	827.86	211+00	828.05	
10.25	827.78	+25	828.15	
10.50	827.70	+50	828.27	
10.75	827.61	+75	828.39	
11.00	827.53	212+00	828.51	
11.25	827.44	+25	828.63	
11.50	827.36	+50	828.75	
11.75	827.27	+75	828.87	
12.00	827.19	213+00	828.99	
	827.11	+25	829.11	
	827.03	+50	829.23	
	826.95	+75	829.35	
	826.87	214+00	829.47	
	826.79	+25	829.59	
	826.71	+50	829.71	
	826.63	+75	829.83	
	826.55	215+00	829.95	
	826.47	+25	830.07	
	826.39	+50	830.19	
	826.31	+75	830.31	
	826.23	216+00	830.43	
	826.15	+25	830.55	
	826.07	+50	830.67	
	825.99	+75	830.79	
	825.91	217+00	830.91	
	825.83	+25	831.03	
	825.75	+50	831.15	
	825.67	+75	831.27	
	825.59	218+00	831.39	
	825.51	+25	831.51	
	825.43	+50	831.63	
	825.36	+75	831.75	
	825.28	219+00	831.87	
	825.20	+25	831.99	
	825.13	+50	832.11	
	825.05	+75	832.23	
	824.98	220+00	832.35	
	824.90	+25	832.47	
	824.82	+50	832.59	
	824.74	+75	832.71	
			832.83	
			832.95	
			833.07	
			833.19	
			833.31	
			833.43	
			833.55	
			833.67	
			833.79	
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			834.87	
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			835.71	
			835.83	
			835.95	
			836.07	
			836.19	
			836.31	
			836.43	
			836.55	
			836.67	
			836.79	
			836.91	
			837.03	
			837.15	
			837.27	
			837.39	
			837.51	
			837.63	
			837.75	
			837.87	
			837.99	
			838.11	
			838.23	
			838.35	
			838.47	
			838.59	
			838.71	
			838.83	
			838.95	
			839.07	
			839.19	
			839.31	
			839.43	
			839.55	
			839.67	
			839.79	
			839.91	
			840.03	
			840.15	
			840.27	
			840.39	
			840.51	
			840.63	
			840.75	
			840.87	
			840.99	
			841.11	
			841.23	
			841.35	
			841.47	
			841.59	
			841.71	
			841.83	
			841.95	
			842.07	
			842.19	
			842.31	
			842.43	
			842.55	
			842.67	
			842.79	
			842.91	
			843.03	
			843.15	
			843.27	
			843.39	
			843.51	
			843.63	
			843.75	
			843.87	
			843.99	
			844.11	
			844.23	
			844.35	
			844.47	
			844.59	
			844.71	
			844.83	
			844.95	
			845.07	
			845.19	
			845.31	
			845.43	
			845.55	
			845.67	
			845.79	
			845.91	
			846.03	
			846.15	
			846.27	
			846.39	
			846.51	
			846.63	
			846.75	
			846.87	
			846.99	
			847.11	
			847.23	
			847.35	
			847.47	
			847.59	
			847.71	
			847.83	
			847.95	
			848.07	
			848.19	
			848.31	
			848.43	
			848.55	
			848.67	
			848.79	
			848.91	
			849.03	
			849.15	
			849.27	
			849.39	
			849.51	
			849.63	
			849.75	
			849.87	
			849.99	
			850.11	
			850.23	
			850.35	
			850.47	
			850.59	
			850.71	
			850.83	
			850.95	
			851.07	
			851.19	
			851.31	
			851.43	
			851.55	
			851.67	
			851.79	
			851.91	
			852.03	
			852.15	
			852.27	
			852.39	
			852.51	
			852.63	
			852.75	
			852.87	
			852.99	
			853.11	
			853.23	
			853.35	
			853.47	
			853.59	
			853.71	
			853.83	
			853.95	
			854.07	
			854.19	
			854.31	
			854.43	
			854.55	
			854.67	
			854.79	
			854.91	
			855.03	
			855.15	

Marker to be furnished and erected on the left by the State of Ohio before acceptance of this project.

B-3.5 - 0" Min. Asph. Base Course - 2.5 Cu.Yds.  
T-3.5 1/4" Asph. Conc. Surf. Course - 188.89 Sq.Yds.

S-3 Sta. 221+92.8 Exist. 3-72" Concrete Pipe Culvert. Extend to Lt.  
For Details - See Sheet No.11

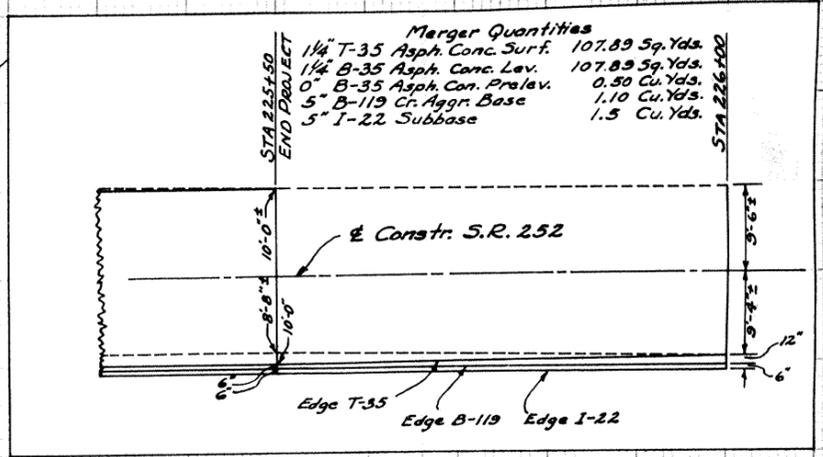
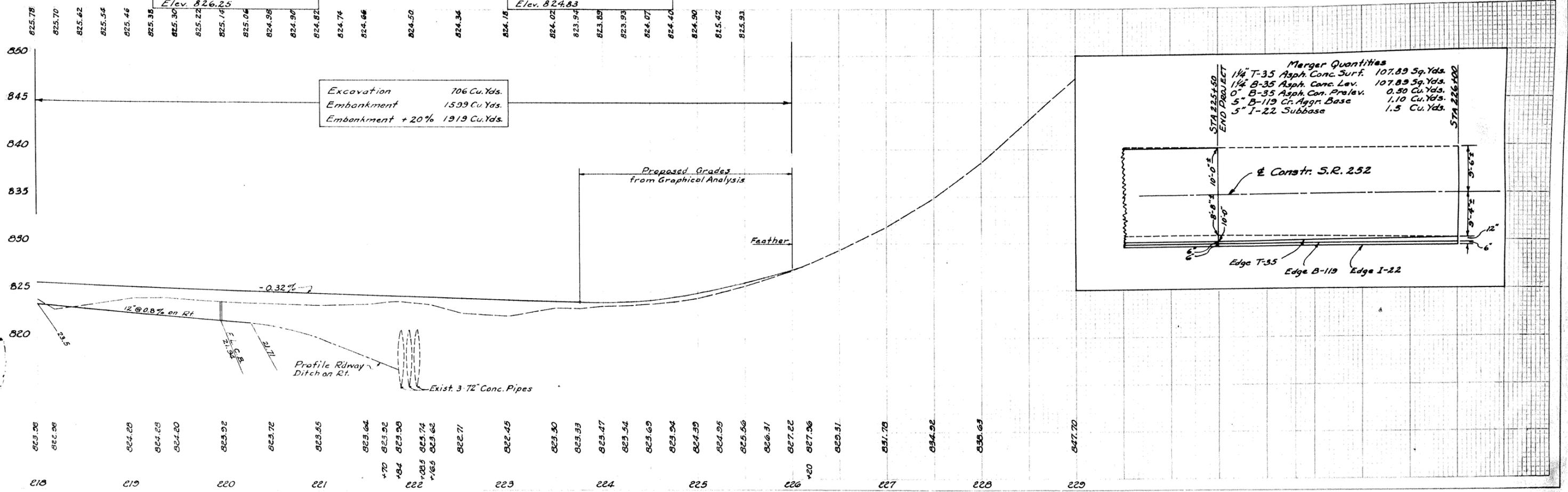


RI - Sta 230+02.02 & Constr.  
Δ = 11° 30' Rk  
D = 0° 56'  
T = 643.41'  
L = 1278.58'  
E = 33.44'

Ref.	From Sheet No.	Station	T-3.5 Cu.Yds.	I-1 Lin.Ft.	I-2 Lin.Ft.	I-3 Units	I-10 Sq.Yds.	I-15 Lin.Ft.	E-12 Lin.Ft.	E-2 Cu.Yds.	E-3 Cu.Yds.	S-27 Lin.Ft.	B-119 Lin.Ft.
A-1		218+18 Rt.											
A-2		219+32.5 Lt.											
A-3		220+10 Rt.	2.94										
A-4		225+55 Lt.	3.40										
D-1		218+00-220+24 Rt.		2428		1							
RR-1													
RR-2													
RR-3													
G-1		221+75-222+37.5 Lt.							62.5				
G-2		221+50-222+12.5 Rt.							62.5				
S-3	11						45			6	29	48	
Totals			6.34	28	2428	1	54	125	38	6	29	48	41

B.M. Spike in W. Root 26 Oak  
73.5' Rt. of Sta. 220+22  
Elev. 826.25

B.M. Spike in Root 36 Oak East  
of E. Abut. 127 Lt. Sta. 223+50  
Elev. 824.83

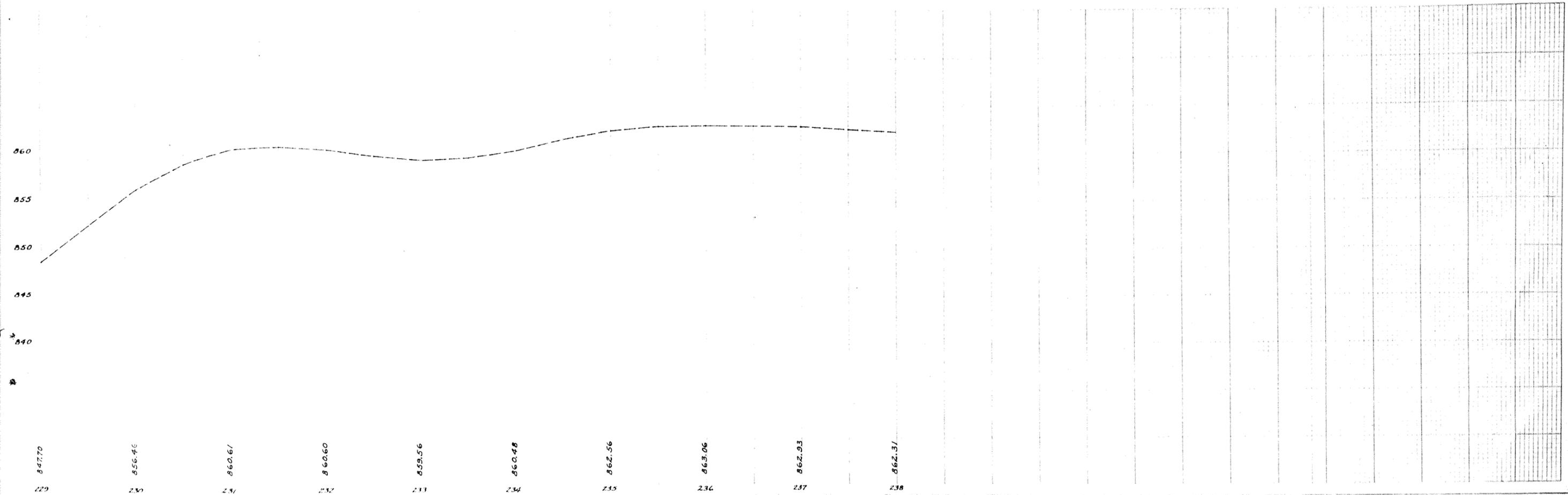
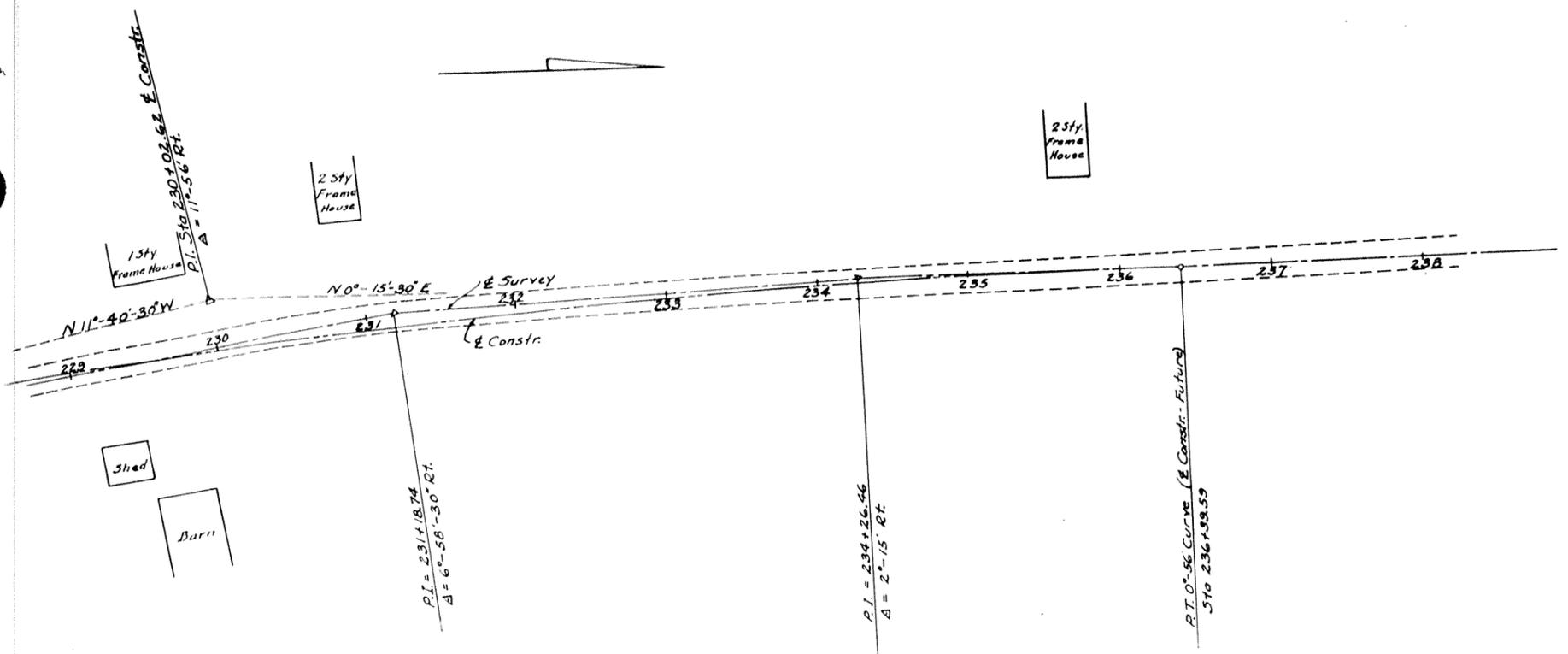


Merger Quantities  
 1/4" T-3.5 Asph. Conc. Surf. 107.89 Sq.Yds.  
 1/4" B-3.5 Asph. Conc. Lev. 107.89 Sq.Yds.  
 0" B-3.5 Asph. Conc. Prelav. 0.50 Cu.Yds.  
 5" B-119 Ch. Aggr. Base 1.10 Cu.Yds.  
 5" I-2.2 Subbase 1.5 Cu.Yds.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

27

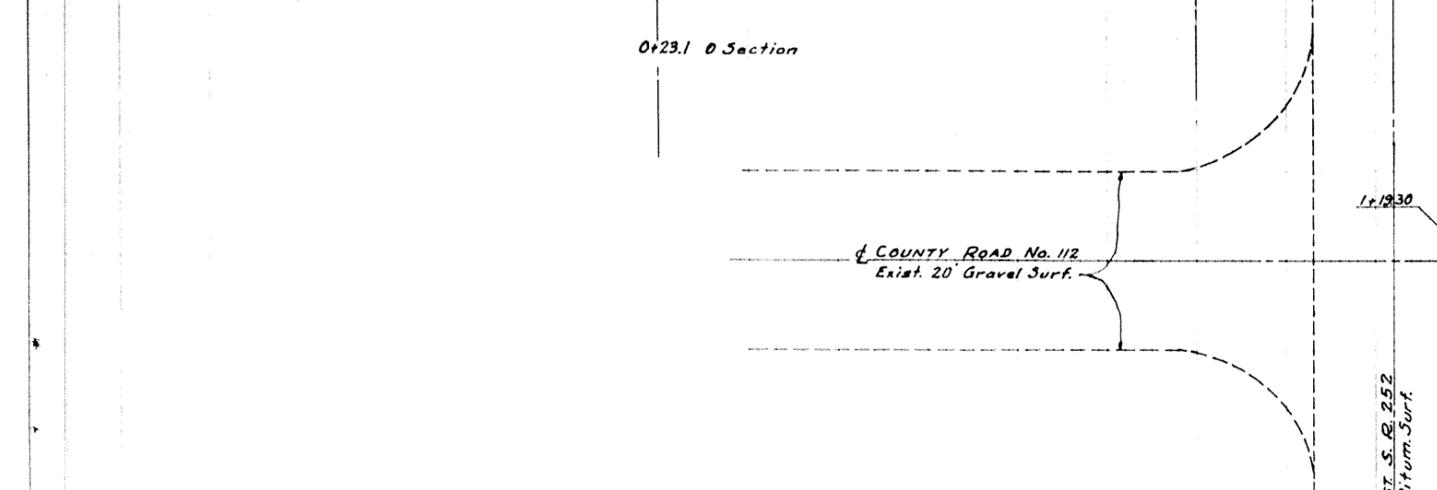
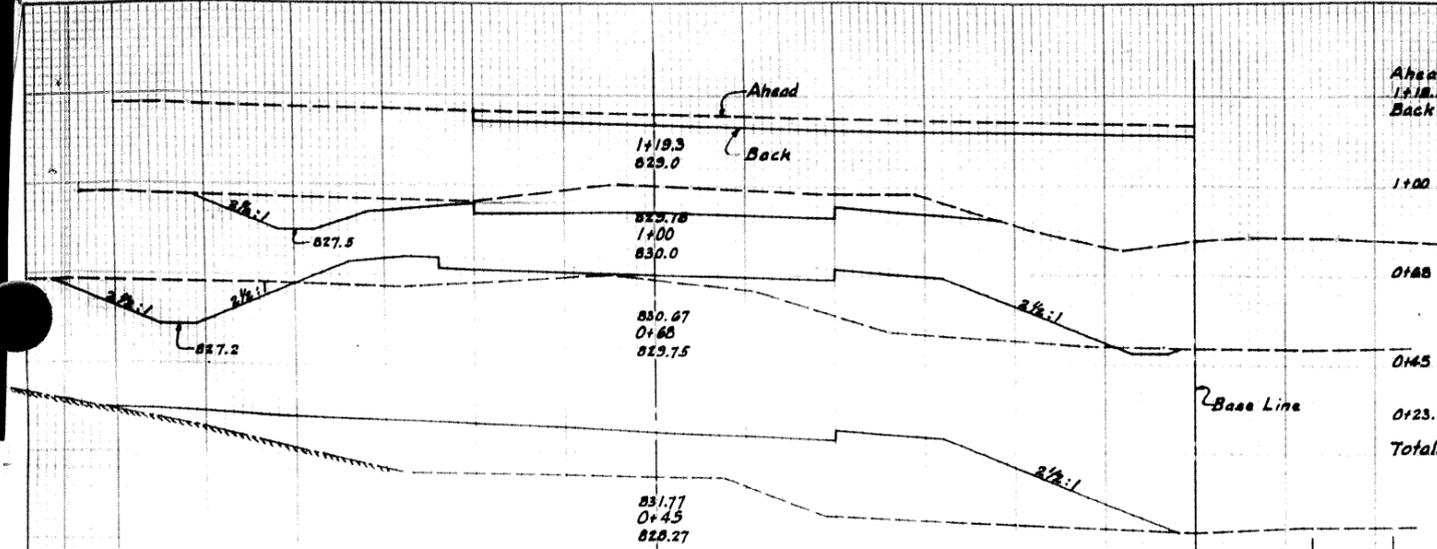
MED-252-8.76



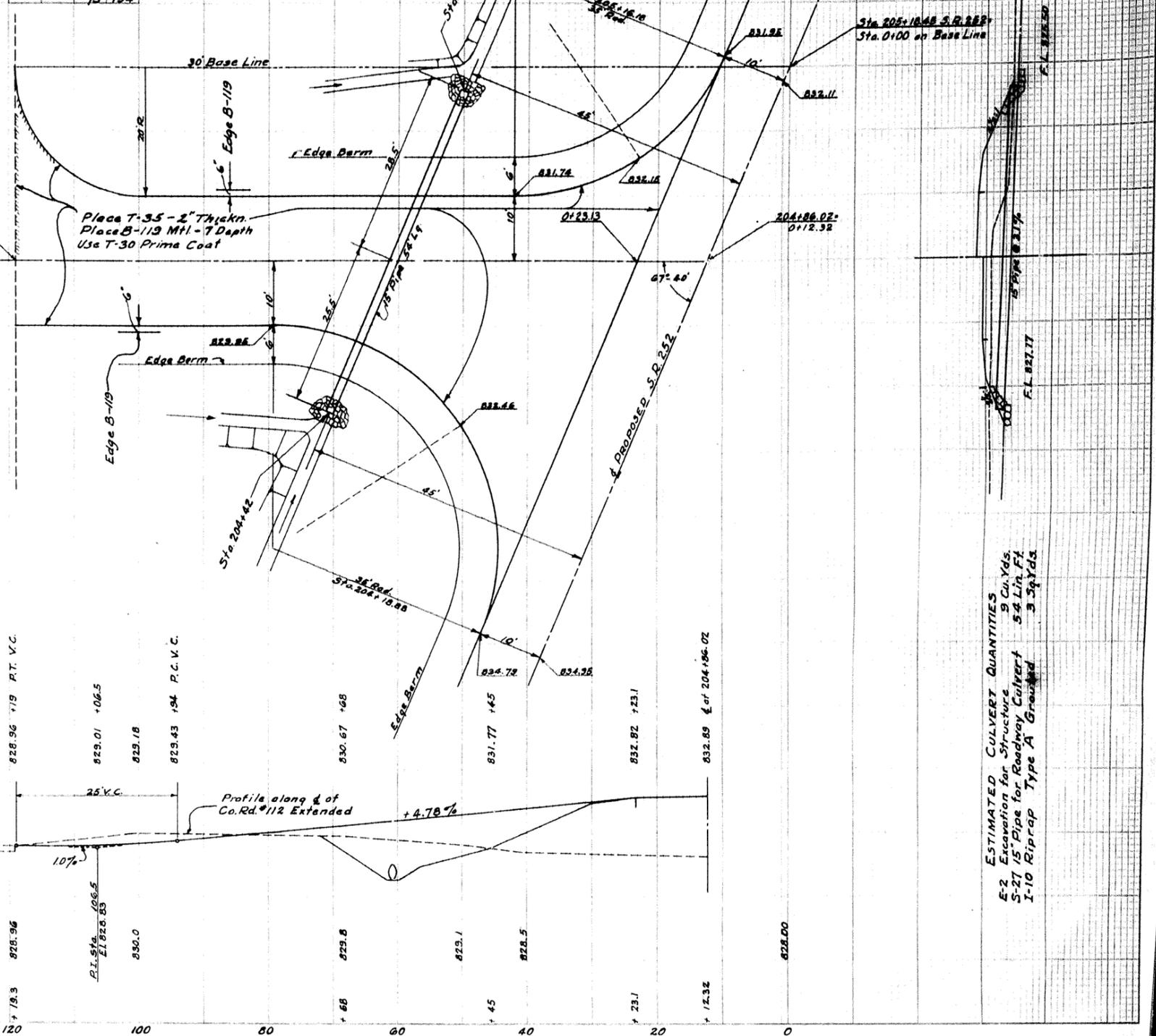
Supplementary Alignment and Profile

MAD-252-3.76

	Cut		Fill	
	Area	Cu. Yds.	Area	Cu. Yds.
Ahead 1+18.3	0	0	25	0
Back	20	0		
1+00	49	0	41	37
0+88	20	63	9	94
0+45	0	156	0	63
0+23.1	0	0	0	63
Totals			75	194



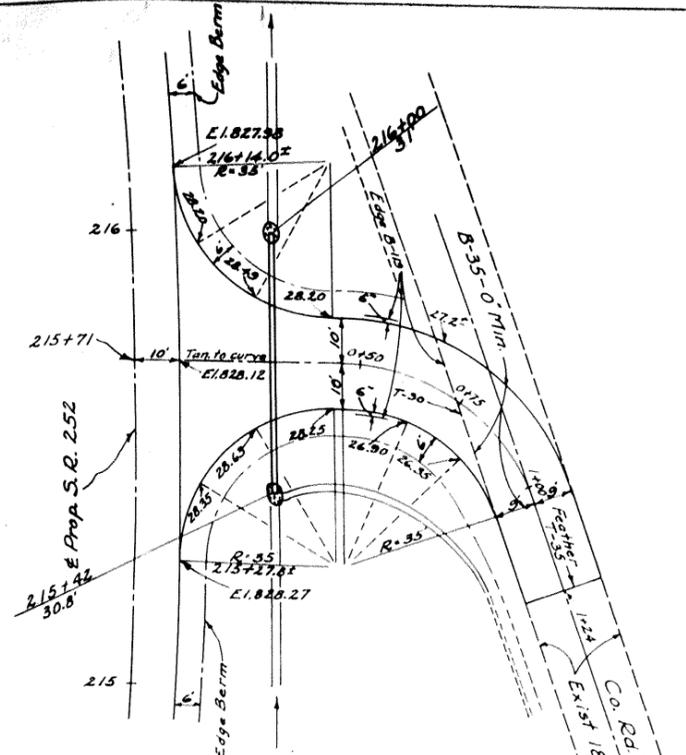
**CALCULATION - PAVEMENT AREA**  
 Sta. 1+19.30 - Sta. 0+23.13 = 96.17 Lin. Ft.  
 $96.17 \times 20 + 9 = 213.71$  Sq. Yds.  
 Intersection  $(62.83 + 91.98 + 85.84) \div 9 = 89.40$  Sq. Yds.  
 Total = 303.11 Sq. Yds.  $\times \frac{1}{36} = 16.84$  Cu. Yds. T-35 - 2" Thickn.  
 For B-119 =  $301.11 \div (2.39 \times 5 \div 9) = 314.39$  Sq. Yds.  $\times \frac{1}{36} = 61.13$  Use 61 Cu. Yds. B-119 - 1" Th.  
 For T-30 Prime Coat =  $303.11 \times 0.35 = 106.09$  Gal. Use 106 Gal.  
 E-1 Compacted Subgrade 303.11 Sq. Yds.



**ESTIMATED CULVERT QUANTITIES**  
 Excavation for Structure 9 Cu. Yds.  
 S-27 15" Pipe for Roadway Culvert 54 Lin. Ft.  
 I-10 Riprap Type A Gravel 3 Sq. Yds.



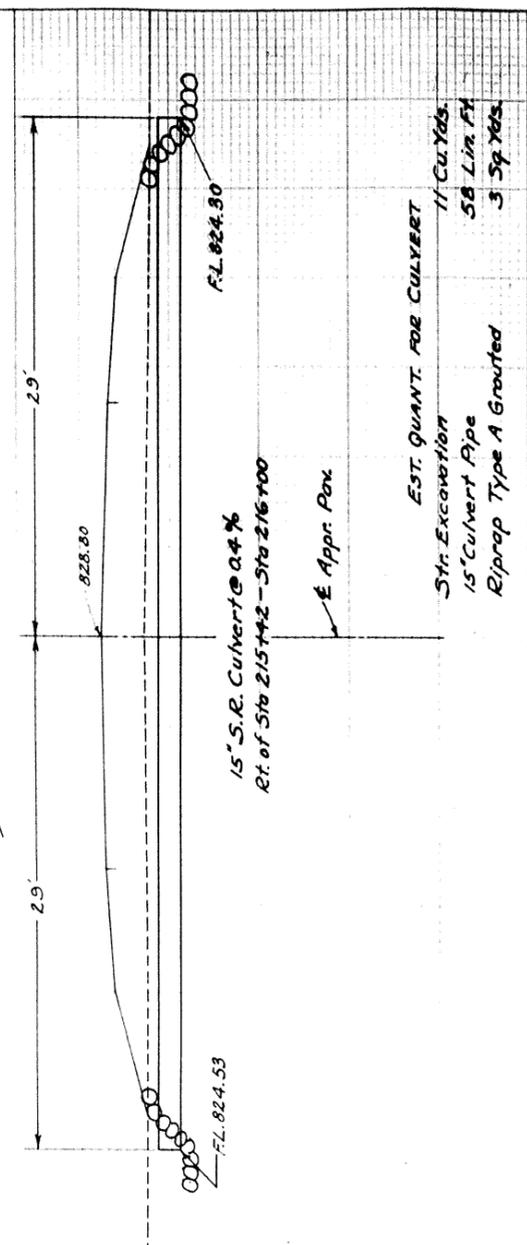
MED-252-8.76



- T-35 - 2" Asph. Concr. Surface Course 16.67 Cu. Yds.
- B-35 - 0" Min. Asph. Conc. Base Course 3 Cu. Yds.
- B-119 - 7" Stab. Crushed Aggr. Base Course 41 Cu. Yds.
- T-30 Prime Coat 73 Gal.
- E-1 Compacted Subgrade 196 Sq. Yds.

CALCULATIONS

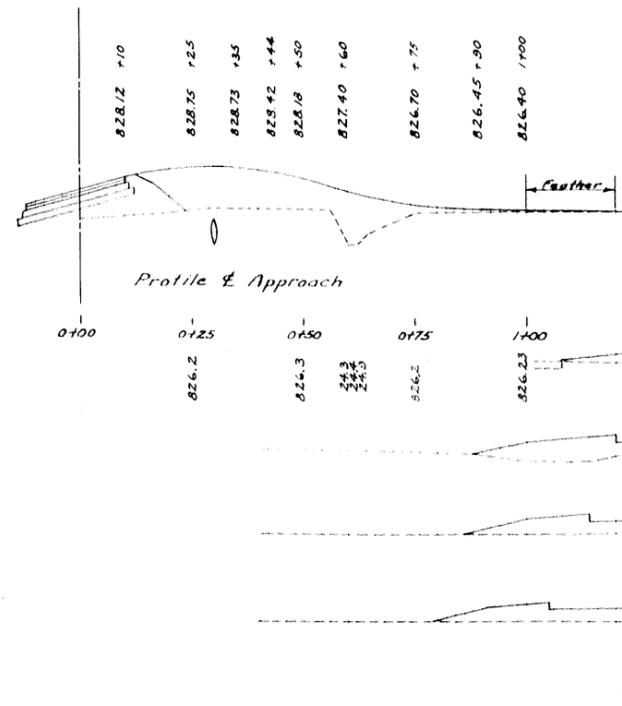
Area of T-35 = 2700 sq. ft. x 2/12 = 16.67 Cu. Yds.  
 Area of B-119 = 1885 sq. ft. x 7/12 = 40.73 Cu. Yds. - Use 41 or 209.44 Sq. Yds.  
 For T-30 = 209.44 x 0.35 = 73.3 Gal. - Use 73



EST. QUANT. FOR CULVERT  
 Str. Excavation 11 Cu. Yds.  
 15" Culvert Pipe 58 Lin. Ft.  
 Riprap Type A Grouted 3 Sq. Yds.

15" S.R. Culvert @ 0.4%  
 Rt. of Sta 215+42 - Sta 216+00

Appr. Pav.

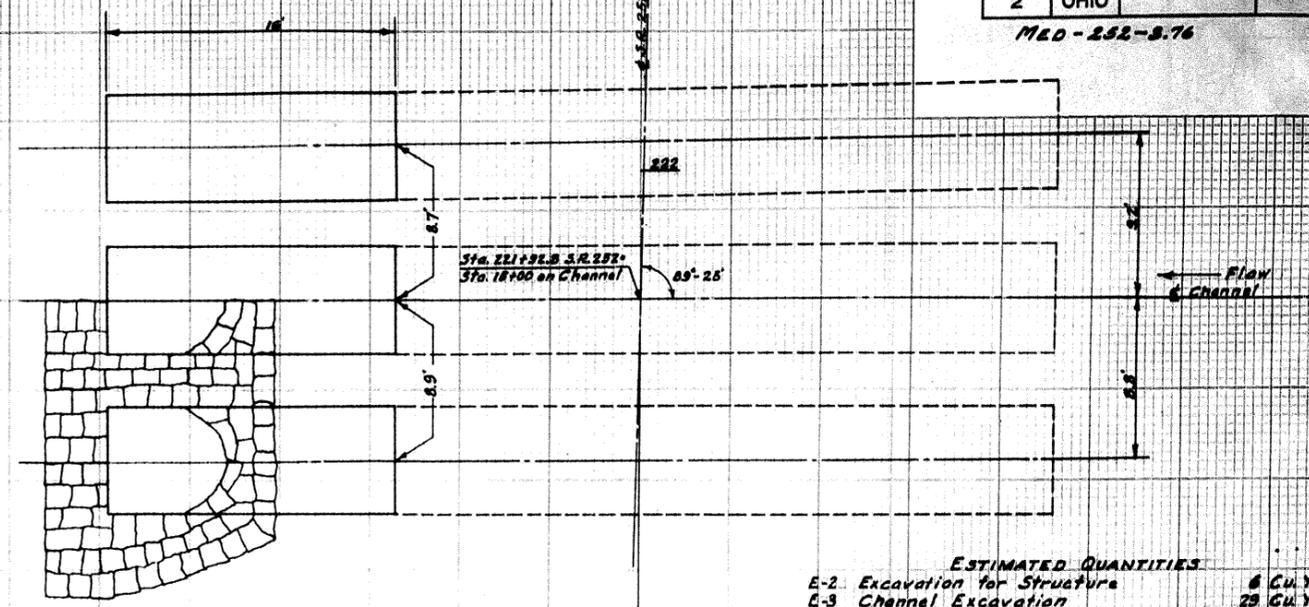


Profile & Approach

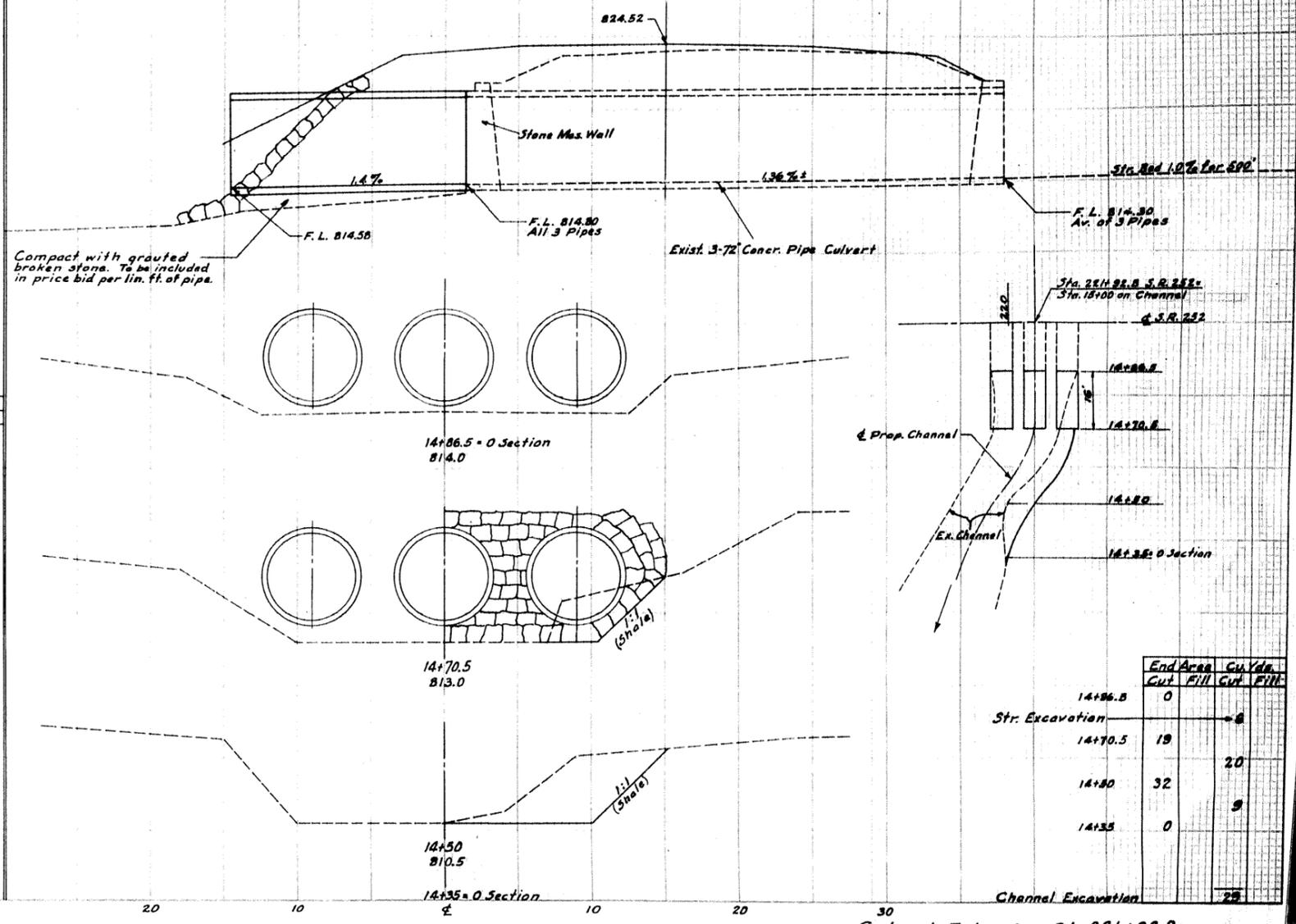
Scale 1" = 10'

Station	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
0+74	0	0		
0+65	22	41	4	7
0+56	18	50	7	15
0+31	8	77	12	59
0+23	0	90	1	25
0+12	0	0	0	18
Totals			24	124

Co. Road #47 Intersection at Sta 215+71 and S.R. Culvert



ESTIMATED QUANTITIES  
 E-2 Excavation for Structure 6 Cu. Yds.  
 E-3 Channel Excavation 29 Cu. Yds.  
 S-21 72" Reinf. Conc. Pipe - Sec. M-6.6(b) 48 Lin. Ft.  
 I-10 Riprap - Type A grouted 45 Sq. Yds.



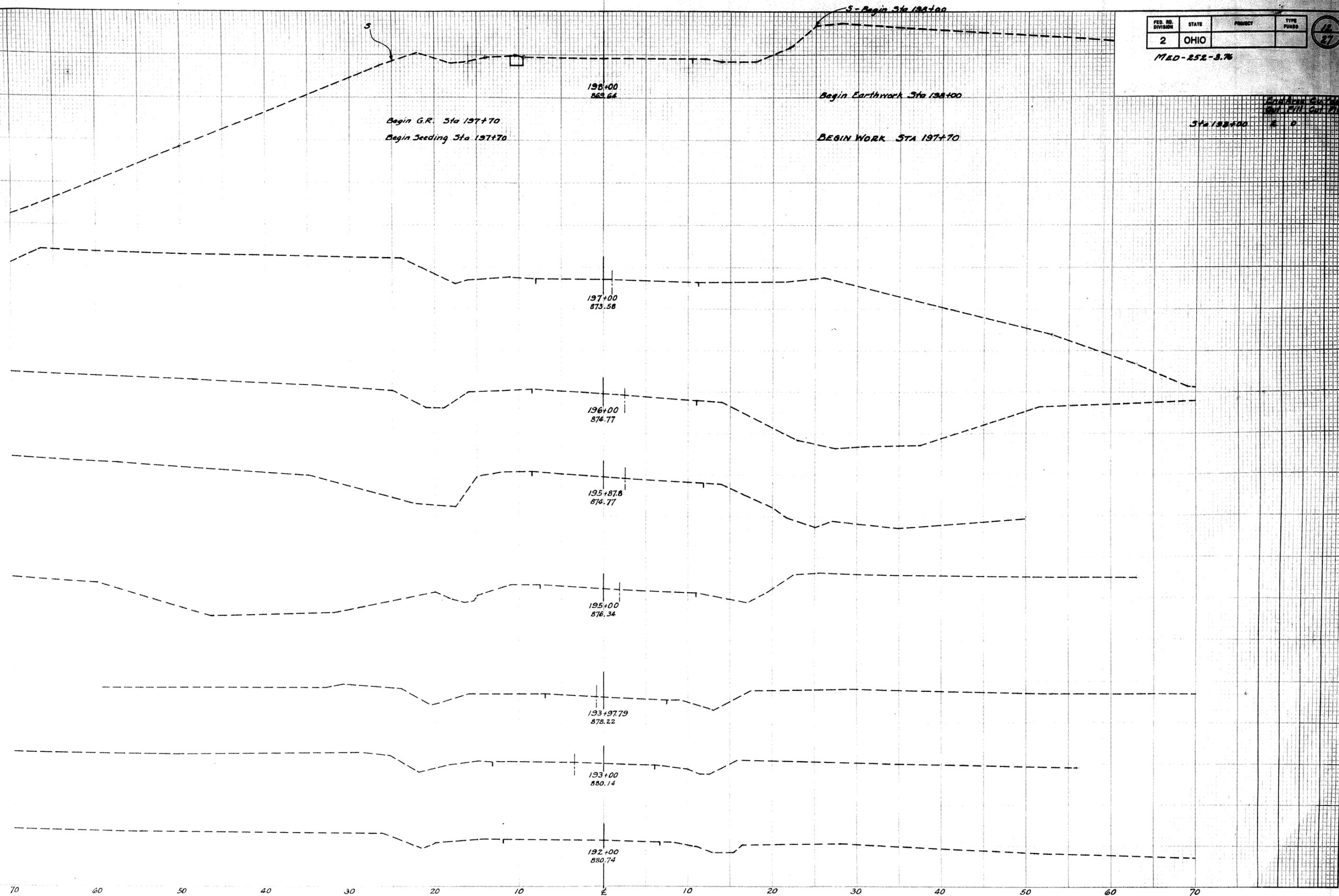
Station	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
14+86.5	0	0		
Str. Excavation			6	
14+70.5	19			20
14+50	32			9
14+35	0			
Channel Excavation			29	

Culvert Extension Sta 221+92.8

FED. NO. DIVISION	STATE	PROJECT	TYPE FUND
2	OHIO		

11  
27

MED-252-3.7%

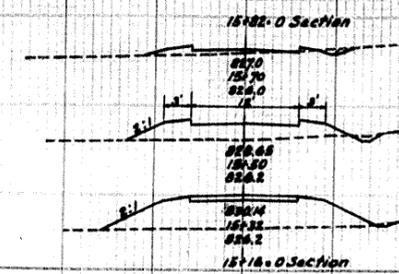


Sta. 192+00 - Sta. 198+00



M&D-262-376

832.14  
205+15 Drive Rt. on Skew = Sta 15+00 on Base Line.  
825.75



Sta	Drive Rt. Quant		End Area		Sta	Drive Rt. Quant		End Area	
	Cut	Fill	Cut	Fill		Cut	Fill	Cut	Fill
15+00	0	0	0	0	15+70	1	0	0	2
15+70	1	0	0	18	15+80	2	40	1	41
15+80	1	22	0	24	15+85	0	0	0	24
15+85	0	0	0	0	Totals	2	62	1	68

832.89  
204+88.06 Road Intersection - Lt. On Skew See Sheet No. 10  
828.1

+4.76%

Seed to 100' on Lt.  
(To include exist. Riv. area)

828.5

835.81  
204+00  
829.35

832.1

839.73  
203+00  
830.65

842.17  
202+50  
833.53

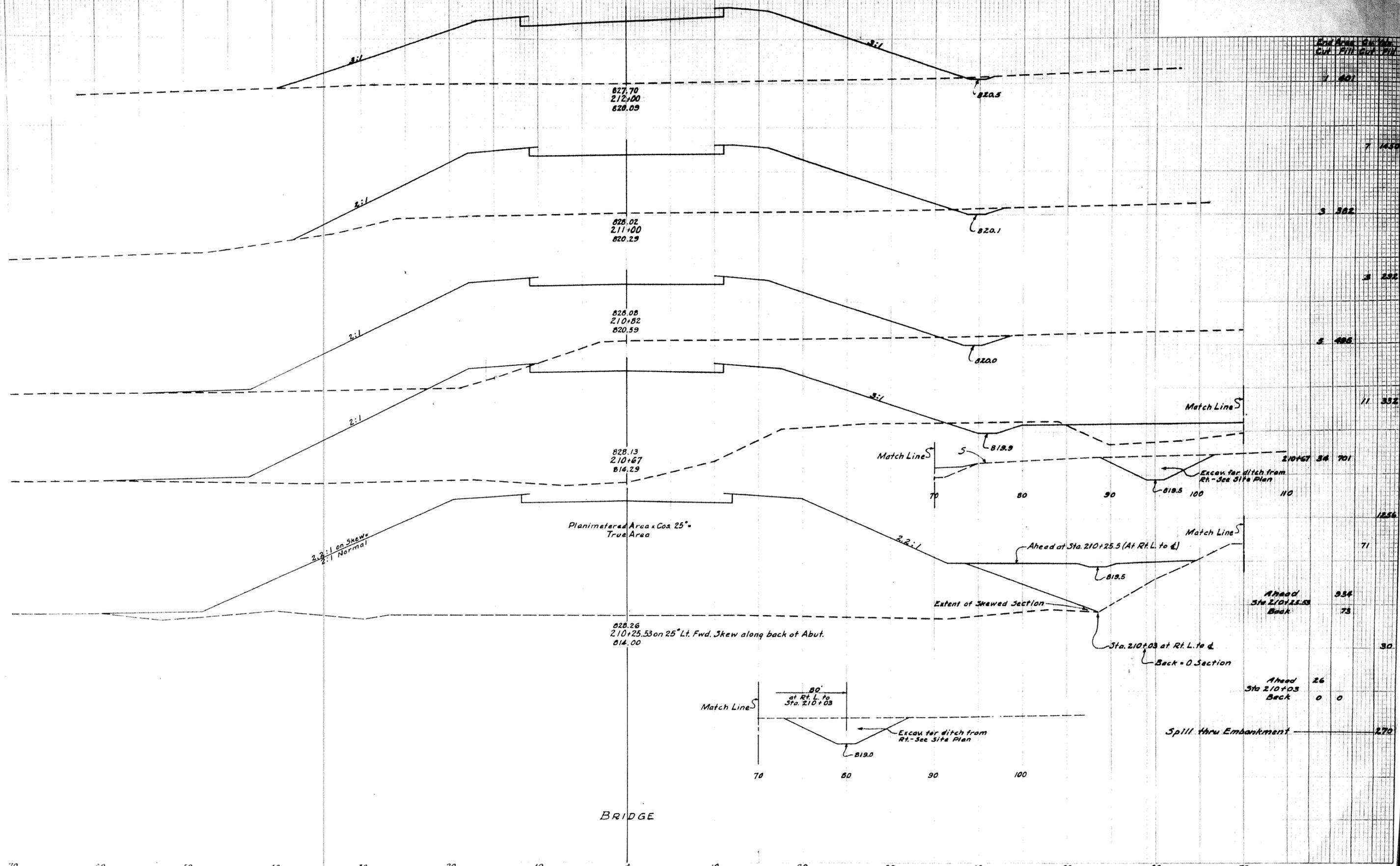
844.81  
202+00  
839.17



FED. RD. DIVISION	STATE	PROJECT	TYPE	FOUND
2	OHIO			

16  
27

MED-252-3.76

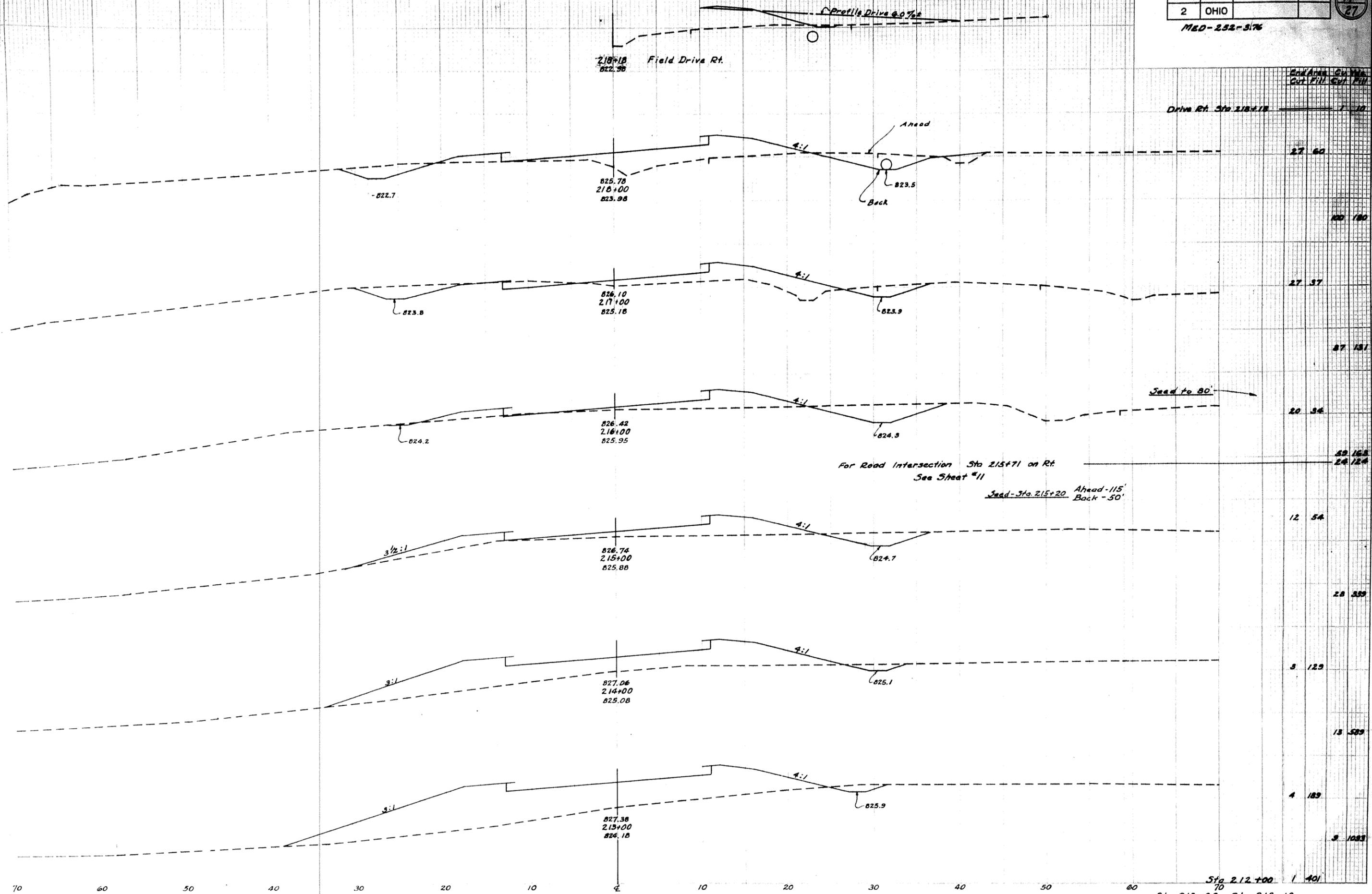


70 60 50 40 30 20 10 E 10 20 30 40 50 60 70  
Sta. 210+25.5 - Sta. 212+00

FED. RD. DIVISION	STATE	PROJECT	TYPE
2	OHIO		17

27

M&D-252-576



End Area - Cu. Yds.  
Cut Fill - Cu. Yds.

Drive Rt. Sta 218+18

27 60

27 37

27 151

20 36

24 168

24 124

12 54

28 359

3 129

13 509

4 189

3 1023

Sta 212+00

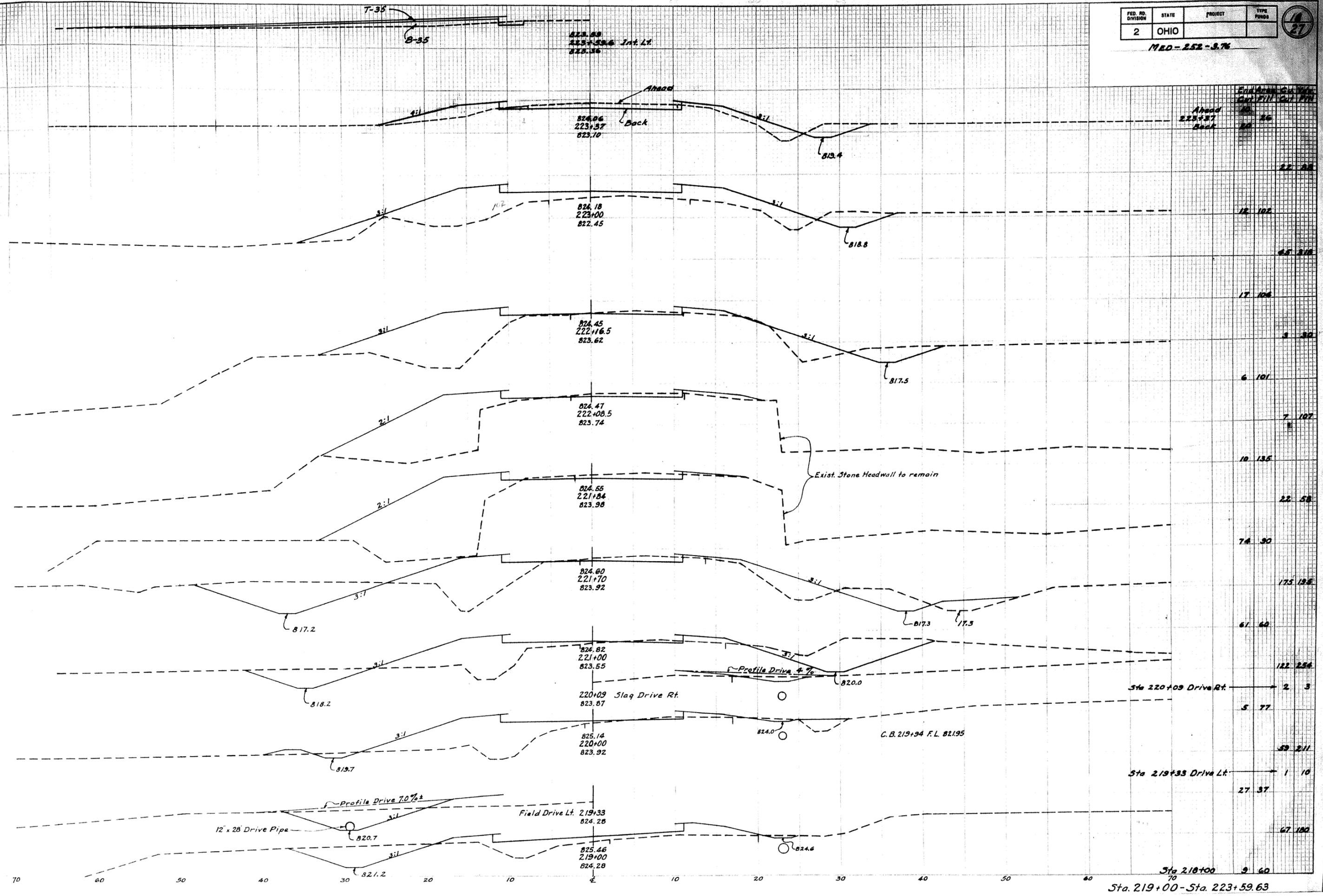
Sta 213+00 - Sta 218+18

70 60 50 40 30 20 10 0 10 20 30 40 50 60

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

10  
27

MED-252-3.76



Station	Area	Vol.
223+57	22	22
223+57	12	102
223+57	45	316
223+57	17	106
223+57	9	90
223+57	6	101
223+57	7	107
223+57	10	135
223+57	22	58
223+57	74	90
223+57	175	196
223+57	61	60
223+57	122	254
223+57	2	3
223+57	5	77
223+57	59	211
223+57	1	10
223+57	27	37
223+57	67	180
223+57	9	60

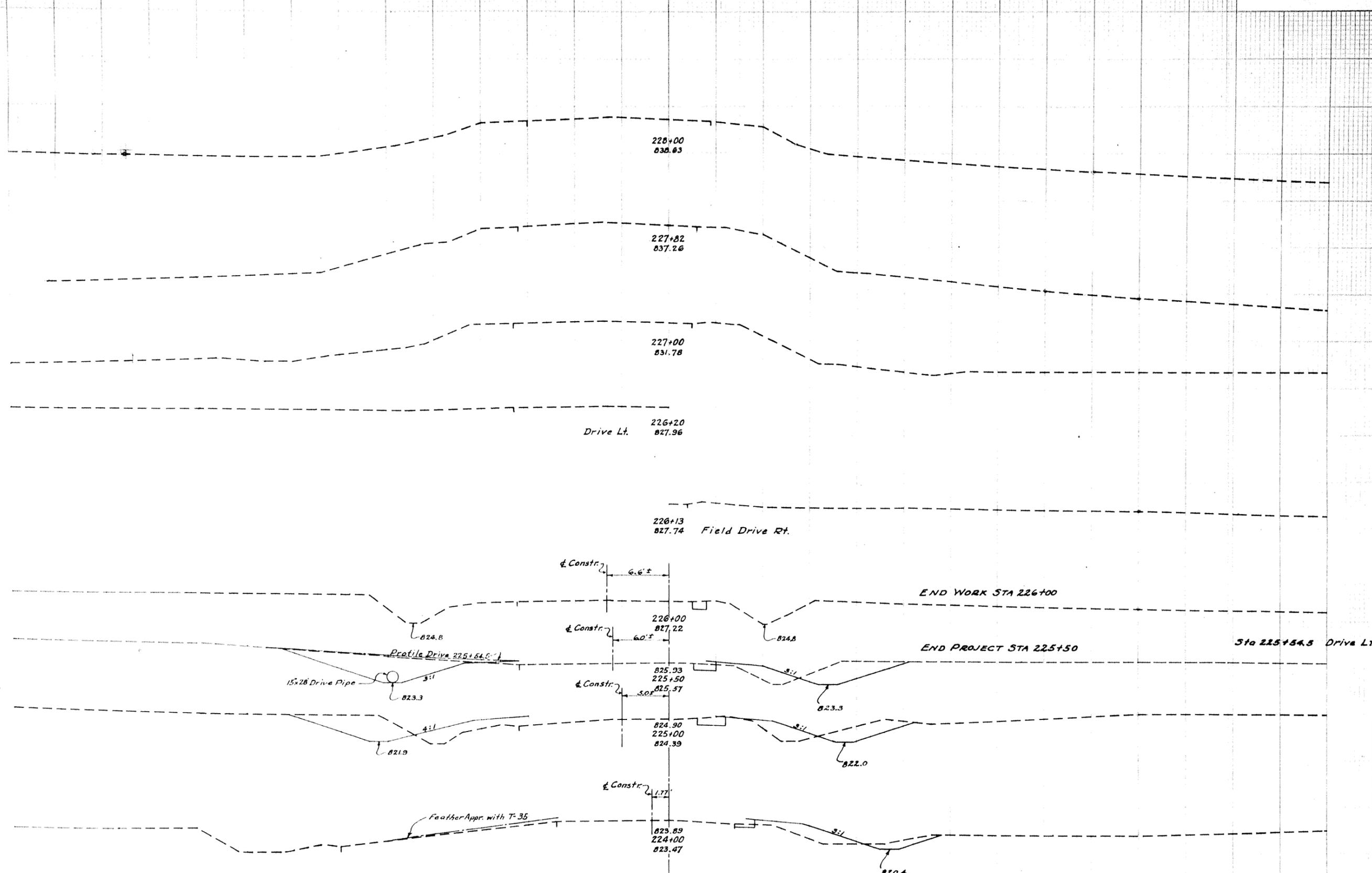
Sta. 219+00 - Sta. 223+59.63

FED. NO. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

19  
27

M&D-252-3.76

End Area  
Cut Fill Cut Fill



70 60 50 40 30 20 10 ± 10 20 30 40 50 60 70

Sta 223+37 10 26

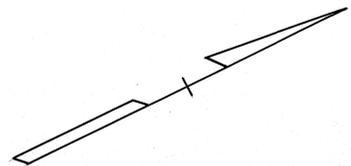
Sta. 224+00 - Sta. 228+00

2	0		
5	3		
50	8		
	81	28	
	37	22	
	78	61	
5	11		
	18	43	

FED. NO. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

MED. - 252 - 3.76  
RIGHT-OF-WAY PLANS

20  
27  
1  
2

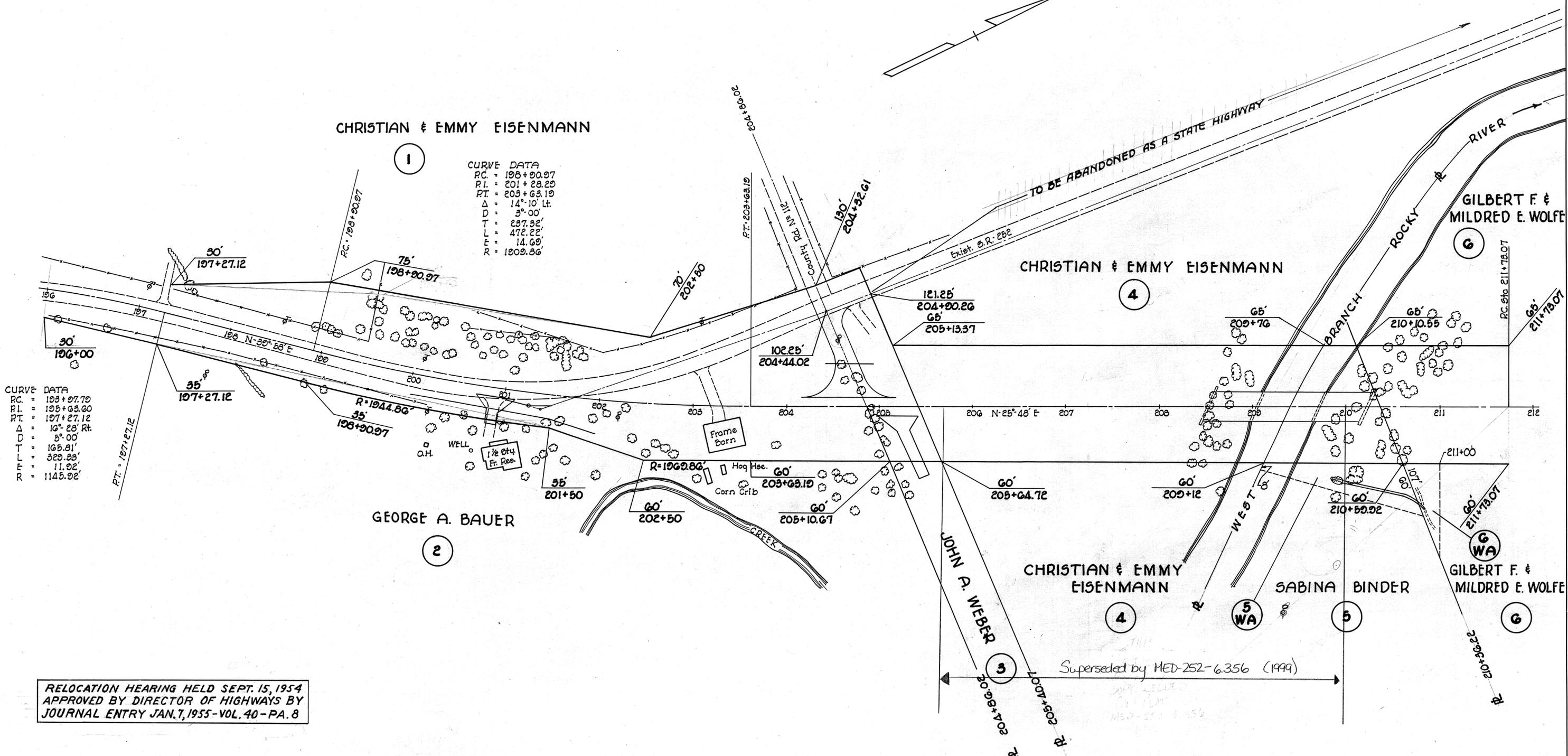


CHRISTIAN & EMMY EISENMANN

1

CURVE DATA  
 PC = 198+90.97  
 PI = 201+23.29  
 PT = 203+63.19  
 Δ = 14°-10' Lt.  
 D = 5°-00'  
 T = 237.32'  
 L = 472.22'  
 F = 14.69'  
 R = 1909.36'

CURVE DATA  
 PC = 193+07.79  
 PI = 195+63.60  
 PT = 197+27.12  
 Δ = 10°-23' Rt.  
 D = 5°-00'  
 T = 165.31'  
 L = 329.33'  
 F = 11.92'  
 R = 1145.92'



RELOCATION HEARING HELD SEPT. 15, 1954  
 APPROVED BY DIRECTOR OF HIGHWAYS BY  
 JOURNAL ENTRY JAN. 7, 1955 - VOL. 40 - PA. 8

OLD ROAD ABANDONED BY ENTRY IN THE  
 DIRECTOR OF HIGHWAYS JOURNAL  
 DATED JAN. 22, 1957 - VOL. 42 - PAGE 65

MEDINA COUNTY LIVERPOOL TOWNSHIP LOT 18 T 4N R 15W

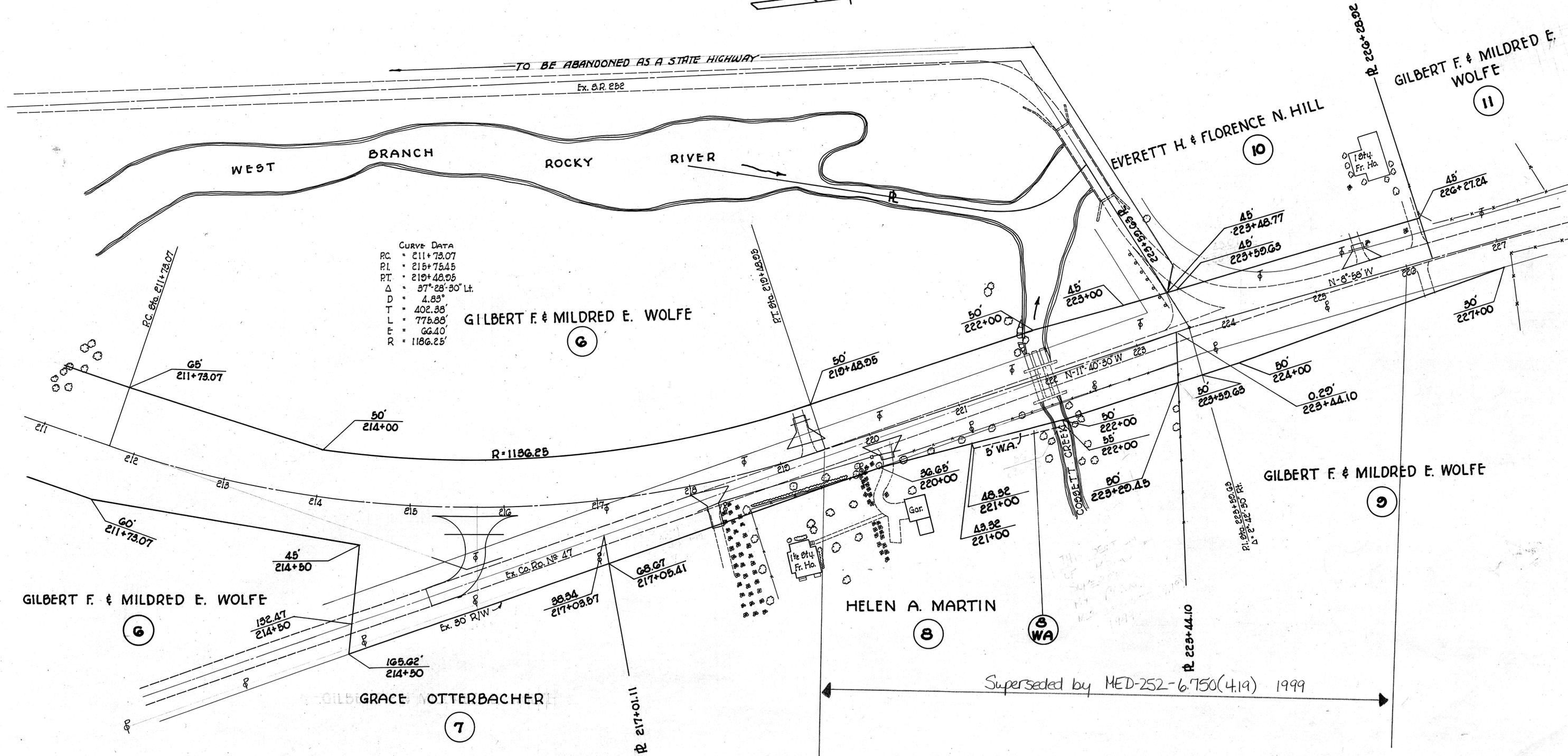
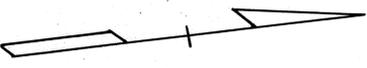
Mar. 21, 1955

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

21  
27

MED-252-3.76  
RIGHT-OF-WAY PLANS

2  
2



CURVE DATA  
 P.C. = 211+73.07  
 P.I. = 215+75.45  
 P.T. = 219+48.95  
 Δ = 37°28'30" Lt.  
 D = 4.83°  
 L = 402.38'  
 T = 775.88'  
 E = 66.40'  
 R = 1186.25'

MEDINA COUNTY LIVERPOOL TOWNSHIP LOT 18 T 4N R 15W

Mar. 24, 1955

**CENTERLINE LOCATION PLAN  
MED-252-3.76  
LIVERPOOL TOWNSHIP-SECTION 18-T4N-R15W  
MEDINA COUNTY-OHIO**



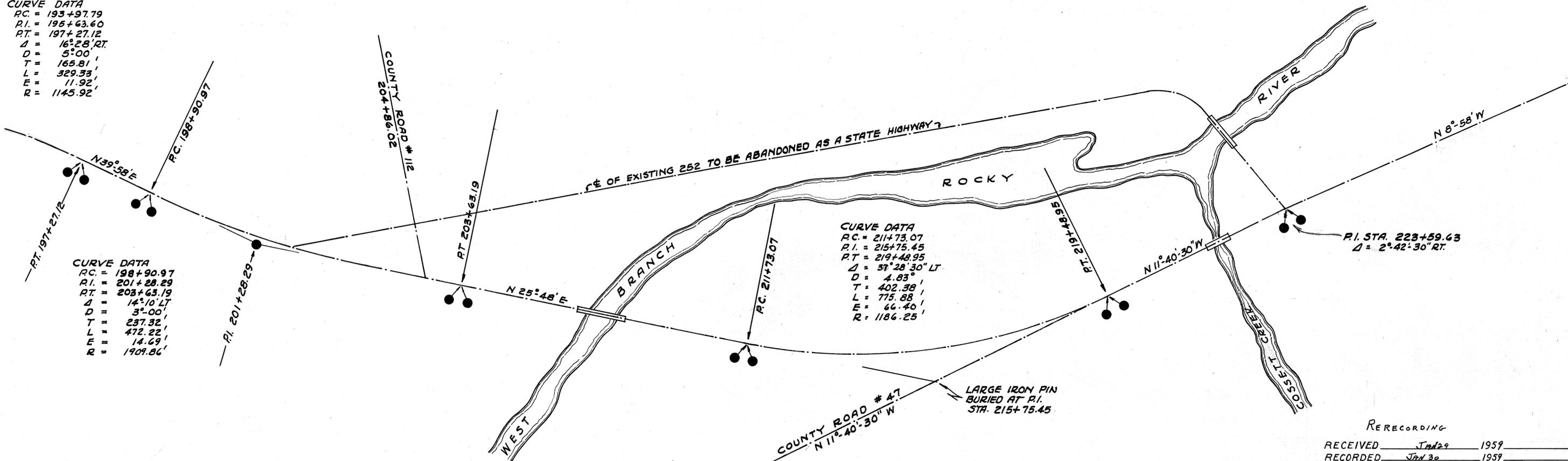
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		



**CURVE DATA**  
 RC = 193+97.79  
 P.I. = 195+63.60  
 RT = 197+27.12  
 Δ = 16°28' RT  
 D = 5°00'  
 T = 165.81'  
 L = 329.33'  
 E = 11.92'  
 R = 1145.92'

**CURVE DATA**  
 RC = 198+90.97  
 P.I. = 201+28.29  
 RT = 203+63.19  
 Δ = 14°10' LT  
 D = 3°00'  
 T = 237.32'  
 L = 472.22'  
 E = 14.69'  
 R = 1909.86'

**CURVE DATA**  
 RC = 211+73.07  
 P.I. = 215+75.45  
 RT = 219+48.95  
 Δ = 57°28'30" LT  
 D = 4.83'  
 T = 402.38'  
 L = 775.88'  
 E = 66.40'  
 R = 1186.25'

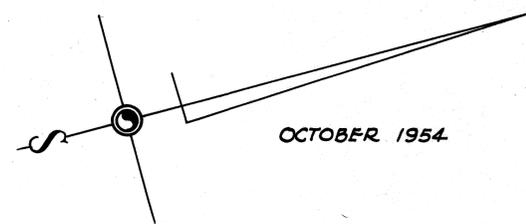


RECORDING  
 RECEIVED Jan 29 1959  
 RECORDED Jan 30 1959  
 PLAT BOOK 8 PAGE 43  
 FEE 1.77 PAID, NUMBER 5429

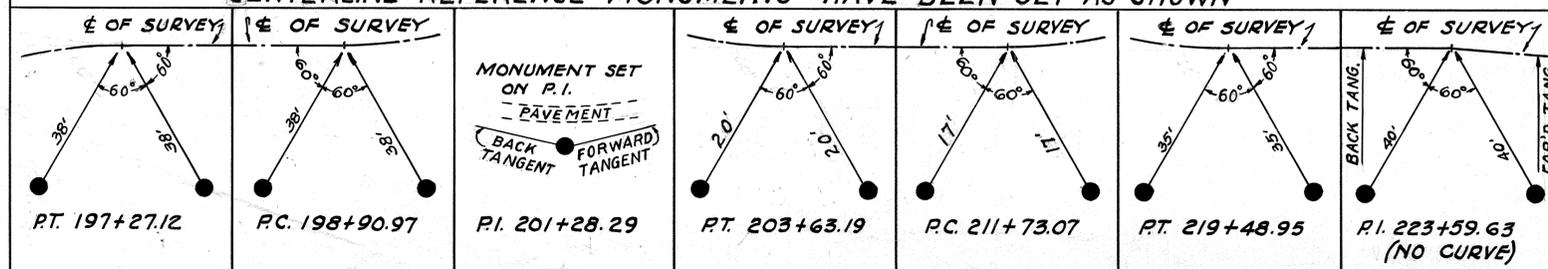
MEDINA COUNTY RECORDER

*Elie J. Phillips*  
 RECORDER OF MEDINA COUNTY, OHIO  
 No. 24563

FILED 10:10 A.M.  
 RECEIVED NOV. 5, 1954  
 RECORDED  
 PLAT BOOK 6 PAGE 66  
 FEE 1.77 PAID  
*Zellak & Kindig*  
 MEDINA COUNTY RECORDER



**CENTERLINE REFERENCE MONUMENTS HAVE BEEN SET AS SHOWN**



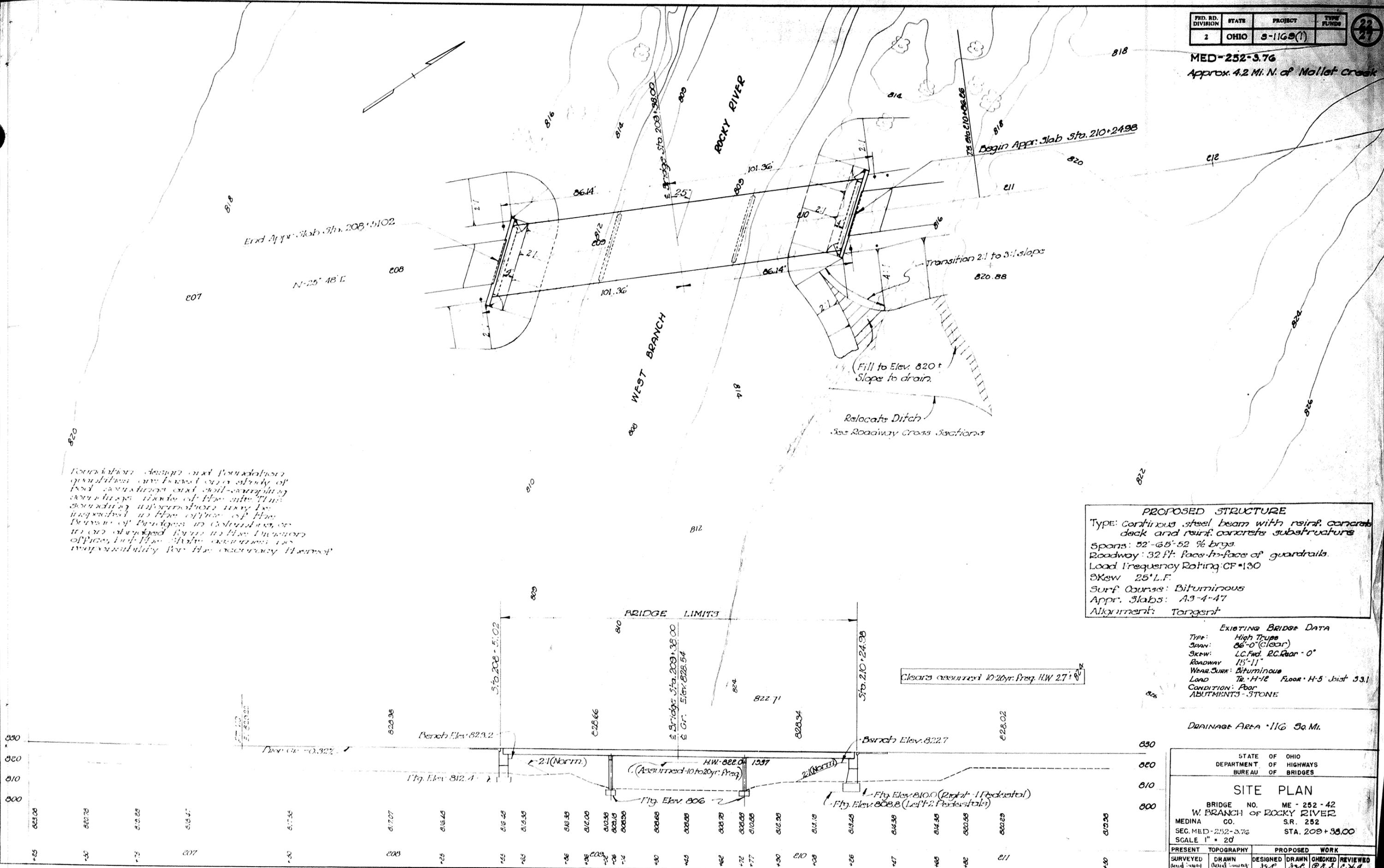
I HEREBY CERTIFY THAT THE ACCOMPANYING PLAT IS A TRUE DELINEATION OF A SURVEY MADE BY THE DEPARTMENT OF HIGHWAYS, STATE OF OHIO

*J. A. D. Smith*  
 DIVISION ENGINEER, DIVISION 3  
 PROFESSIONAL ENGINEER #995

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDED
2	OHIO	3-1163(1)	

22  
27

MED-252-3.76  
Approx. 4.2 Mi. N. of Mallet Creek



Foundation design and foundation conditions are based on a study of test excavations and soil sampling conducted on the site. The sounding information may be inspected in the office of the Bureau of Bridges in Columbus, or in any of the District Offices, but the State assumes no responsibility for the accuracy thereof.

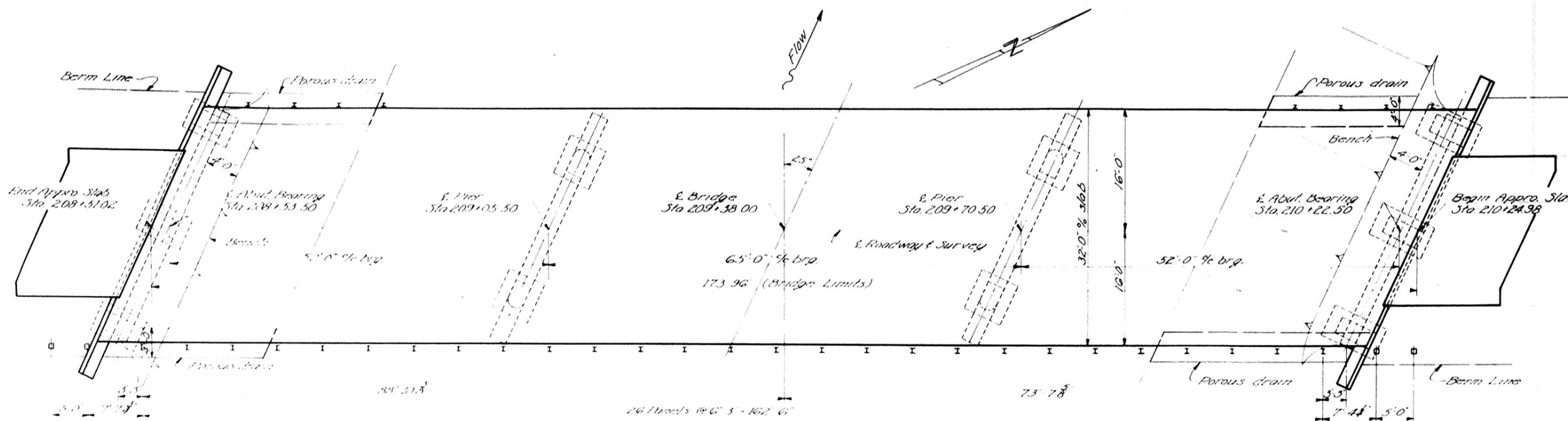
**PROPOSED STRUCTURE**  
 Type: Continuous steel beam with reinf. concrete deck and reinf. concrete substructure  
 Spans: 52'-6.5'-52' brygs.  
 Roadway: 32 ft. face-to-face of guardrails.  
 Load Frequency Rating: CF=130  
 Skew: 25° L.F.  
 Surf. Course: Bituminous  
 Appr. Slabs: A3-4-47  
 Alignment: Tangent

**EXISTING BRIDGE DATA**  
 Type: High Truss  
 Span: 36'-0" (Clear)  
 Skew: L.C. Fwd. R.C. Rear - 0°  
 Roadway: 15'-11"  
 Wear Surf.: Bituminous  
 Load: Tr. H-12 Floor H-5 Joint 3.3.1  
 Condition: Poor  
 Abutments: Stone

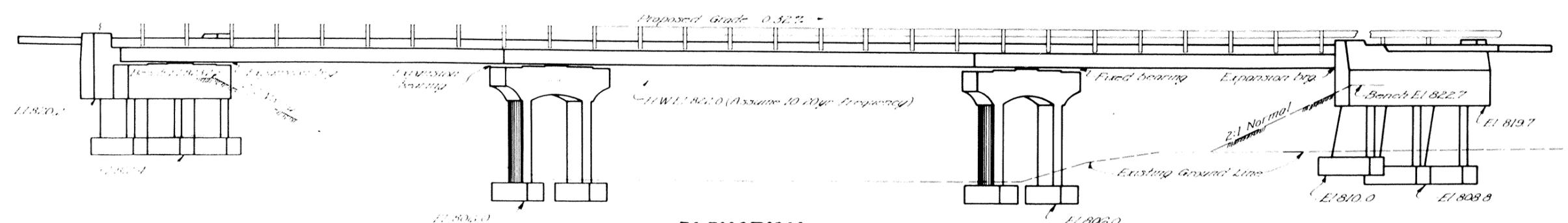
DRAINAGE AREA - 116 Sq. Mi.

STATE OF OHIO		DEPARTMENT OF HIGHWAYS		BUREAU OF BRIDGES	
<b>SITE PLAN</b>					
BRIDGE NO. ME - 252 - 42		W. BRANCH OF ROCKY RIVER			
MEDINA CO.		S.R. 252			
SEC. MED-252-3.76		STA. 209+38.00			
SCALE 1" = 20'					
PRESENT SURVEYED	TOPOGRAPHY	PROPOSED WORK			
DESIGNED	DRAWN	CHECKED	REVIEWED		

MED-252-3.76



**GENERAL PLAN**



**ELEVATION**

**GENERAL NOTES**

- EXCAVATION QUANTITY** includes removal of all material between top of earth bench and bottom of abutment construction.
- WELDING** of structural steel shall be Class A.
- PAINTING**, both shop and field, shall be according to Item 508 except that the paint shall be applied by brushing. Spray application will not be permitted. Field paint application shall be same color as in shop or application.
- POROUS DRAINS**, extending down face of abutments down to existing ground, shall be placed on and filled with unadorned strips of 1/2" square sections of the bridge.
- The drains shall be 2" wide and one end shall be closed. They shall be installed under edge of deck. They shall be composed of No. 10 to 12 galvanized steel or pipe. Construction provisions shall conform generally to Item 19. In each case, provision shall be made to provide with the porous drain a 1/2" hole for porous drain to unobstructed opening.
- SURFACE FINISH OF CONCRETE:** Surface of deck slabs shall receive a finished surface finish. All other exposed surfaces shall be governed by the provisions of Item 9.1.

**ESTIMATED QUANTITIES**

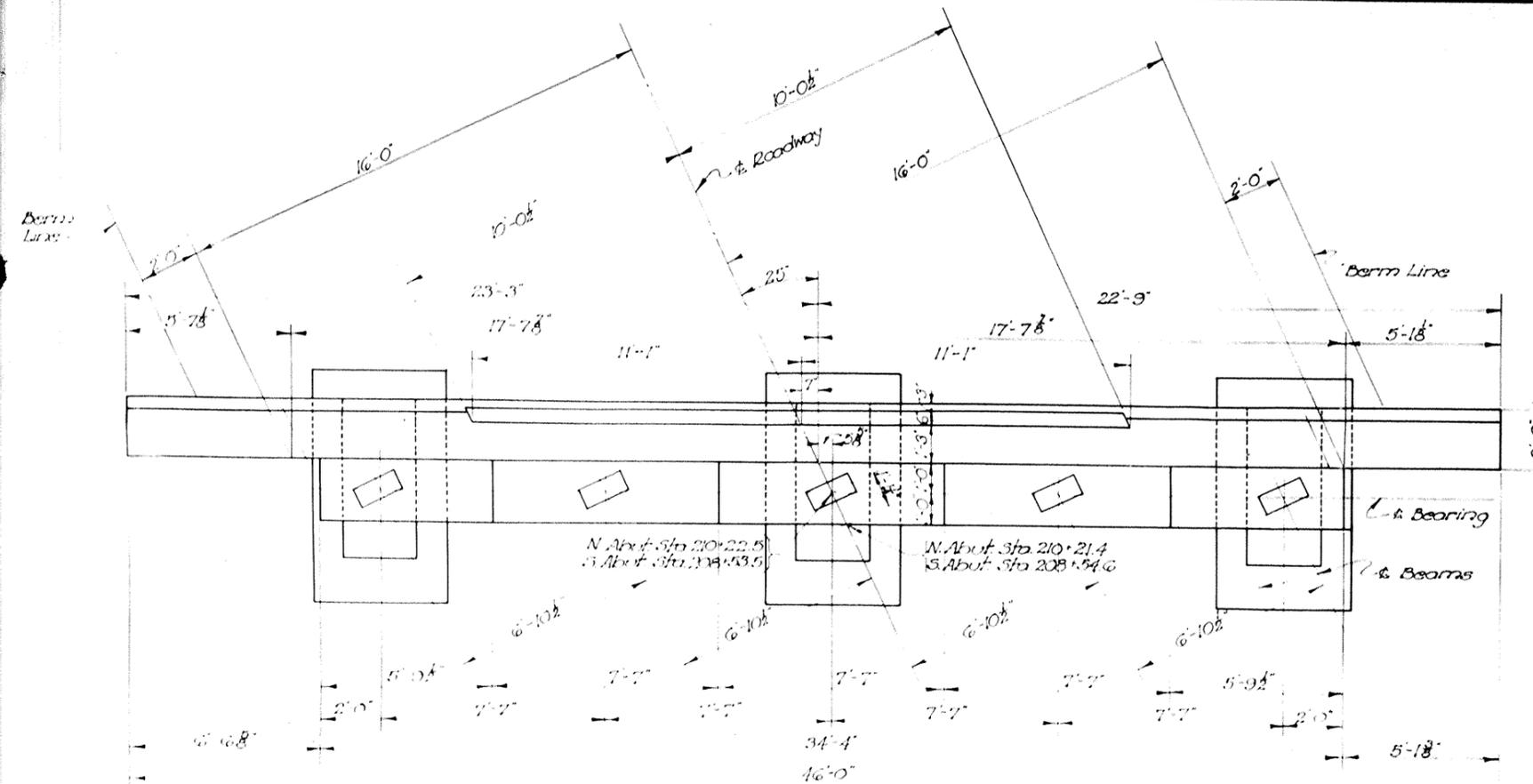
ITEM	TOTAL	UNIT	DESCRIPTION	Supers.	ABUTS	PIERS	GENERAL		
1	1000	cubic yds	excavation under and around abutments		14	12	14	1000	
2	1000	cubic yds	excavation under and around piers		14	12	14	1000	
3	1000	cubic yds	excavation under and around roadway		14	12	14	1000	
4	1000	cubic yds	excavation under and around approach slabs		14	12	14	1000	
5	1000	cubic yds	excavation under and around bridge		14	12	14	1000	
6	1000	cubic yds	excavation under and around abutment		14	12	14	1000	
7	1000	cubic yds	excavation under and around pier		14	12	14	1000	
8	1000	cubic yds	excavation under and around roadway		14	12	14	1000	
9	1000	cubic yds	excavation under and around approach slab		14	12	14	1000	
10	1000	cubic yds	excavation under and around bridge		14	12	14	1000	
11	1000	cubic yds	excavation under and around abutment		14	12	14	1000	
12	1000	cubic yds	excavation under and around pier		14	12	14	1000	
13	1000	cubic yds	excavation under and around roadway		14	12	14	1000	
14	1000	cubic yds	excavation under and around approach slab		14	12	14	1000	
15	1000	cubic yds	excavation under and around bridge		14	12	14	1000	

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

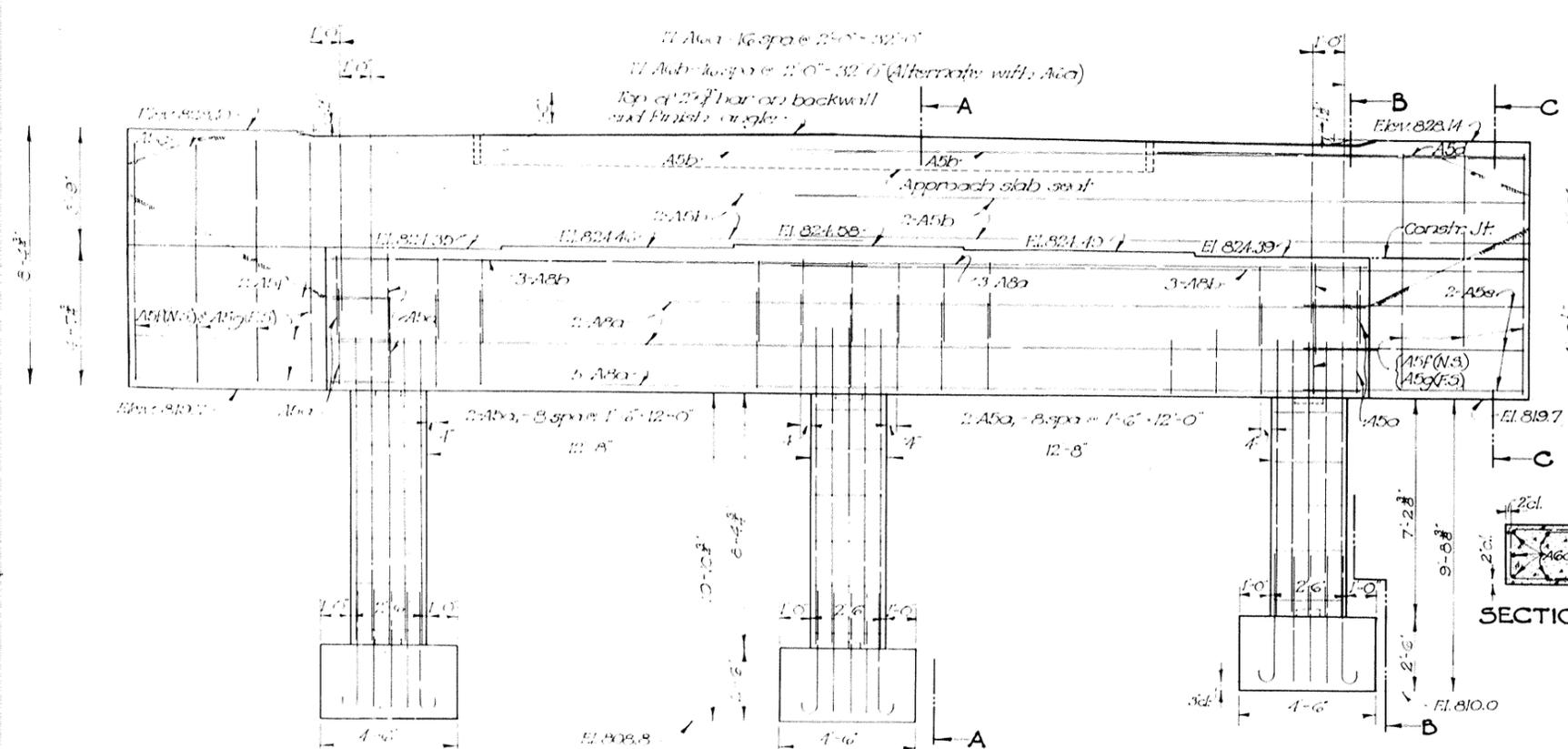
**GENERAL PLAN, ELEVATION,  
NOTES & ESTIMATED QUANTITIES**

BRIDGE NO. ME-252-42  
OVER WEST BRANCH OF ROCKY RIVER  
MEDINA COUNTY  
SEC. MED-252-3.76 STA 209+38.00

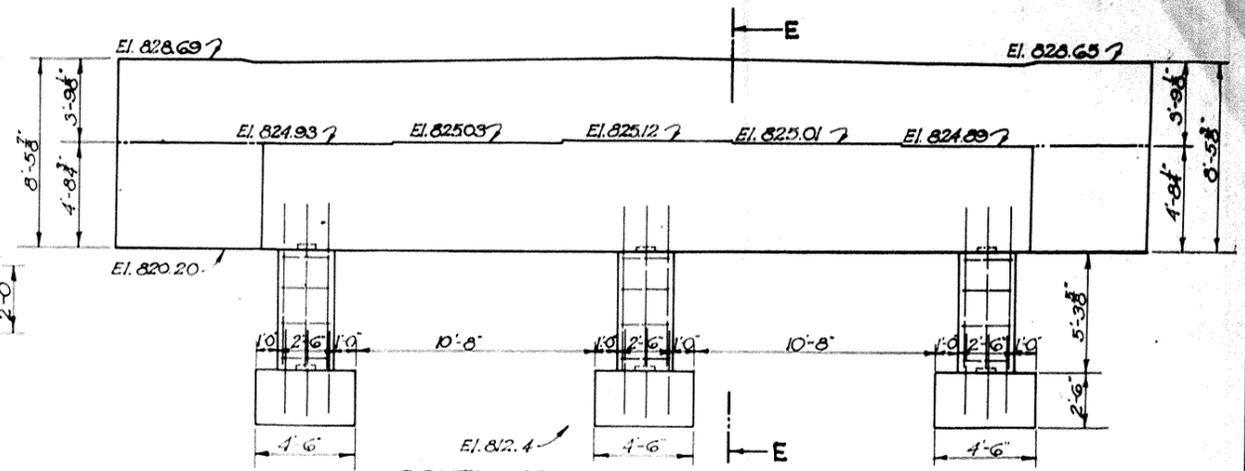
DESIGNED	DRAWN	TRACKED	CHECKED	REVIEWED	DATE	REVISED
J.V.G.	J.V.G.	EA	C.W.	BFG	8-19-54	



PLAN



NORTH ABUTMENT ELEVATION



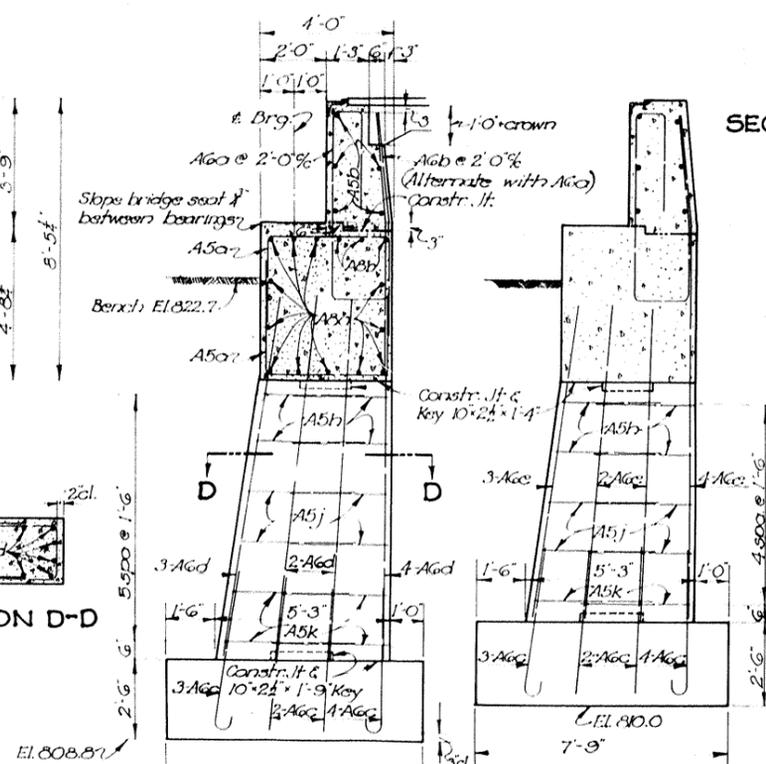
SOUTH ABUTMENT ELEVATION

Plan and Details not shown shall be the same as shown on North Abutment.

NOTES  
BRIDGE SEAT PROCEDURE Concrete above bridge seat construction joint shall not be placed until after steel work is erected. Shovel and finish shall be used as a template for top of backwall.

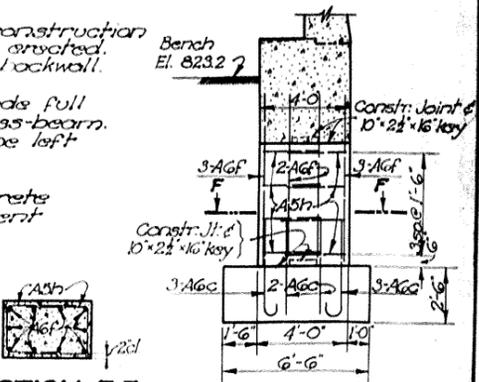
AFTER PEDESTALS ARE PLACED, all earth fill shall be made full height of earth bench, and excavation made for cross-beam. If bottom forms for cross-beams are used, they shall be left in place.

ALL REINFORCING shall be 2" clear from surface of concrete unless otherwise shown. Reinforcing bars in abutment shall be placed to clear bearing anchor bars.



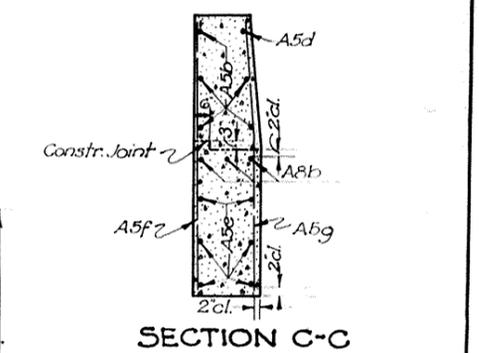
SECTION A-A

SECTION B-B



SECTION F-F

SECTION E-E

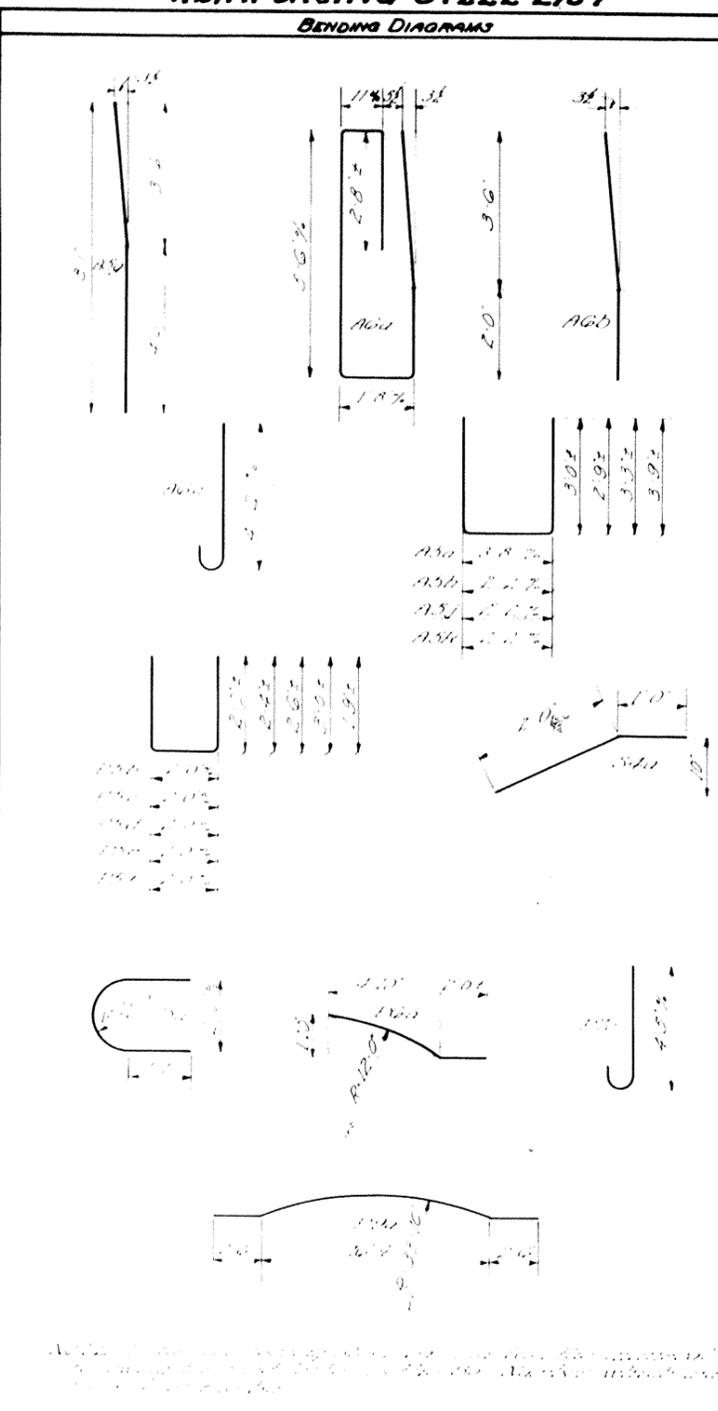


SECTION C-C

NOTE:  
Footings shall extend 3 inches into sandy strata or to the elevation shown, whichever is lower.

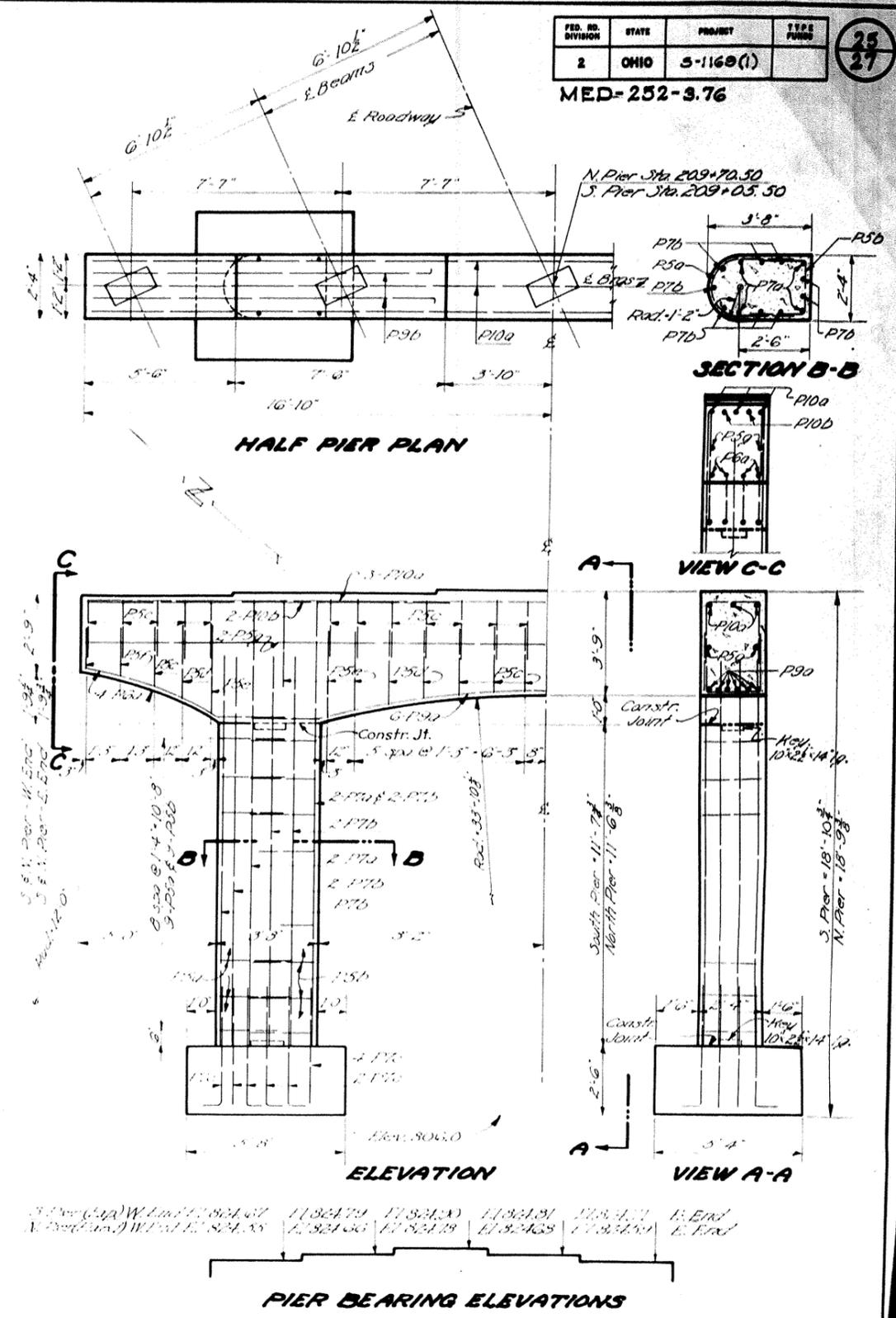
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES AND RAILROAD CROSSINGS					
<b>ABUTMENT DETAILS</b>					
BRIDGE No. ME-252-42 WEST BRANCH OF ROCKY RIVER					
MEDINA CO. SEC. ME-252-3.76 STA. 209+38.00					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.V.G.	J.V.G.	P.L.B.	C.W.	B.F.G.	7/10/54

REINFORCING STEEL LIST				
MARK	NO.	LENGTH	WEIGHT	S.N.
<b>NORTH ABUTMENT</b>				
A.51	15	34' 0"	1,089	5
A.52	6	27' 3"	389	5
A.53	17	15' 5"	394	4
A.54	17	5' 6"	140	4
A.55	33	4' 10"	140	5
A.56	22	10' 4"	341	5
A.57	11	9' 0"	149	5
A.58	46	9' 5"	452	4
A.59	10	23' 8"	247	5
A.50	1	11' 0"	11	5
A.51	1	12' 2"	13	5
A.52	6	6' 8"	42	5
A.53	13	8' 0"	145	5
A.54	7	8' 0"	58	4
A.55	12	7' 8"	93	4
A.56	15	8' 5"	115	4
A.57	10	9' 5"	119	4
<b>SOUTH ABUTMENT</b>				
A.58	15	34' 0"	1,089	5
A.59	6	27' 3"	389	5
A.60	17	15' 5"	394	4
A.61	17	5' 6"	140	4
A.62	33	4' 10"	140	5
A.63	22	10' 4"	341	5
A.64	11	9' 0"	149	5
A.65	46	9' 5"	452	4
A.66	10	23' 8"	247	5
A.67	1	11' 0"	11	5
A.68	1	12' 2"	13	5
A.69	6	6' 8"	42	5
A.70	13	8' 0"	145	5
A.71	7	8' 0"	58	4
A.72	12	7' 8"	93	4
A.73	15	8' 5"	115	4
A.74	10	9' 5"	119	4
<b>PIERS</b>				
P.1	60	31' 0"	367	5
P.2	38	23' 0"	229	5
P.3	17	27' 0"	377	4
P.4	23	3' 21"	329	5
P.5	30	26' 0"	393	5
P.6	37	3' 3"	333	4
P.7	5	2' 0"	239	4
P.8	30	6' 2"	357	4
P.9	63	3' 9"	758	4
P.10	22	6' 5"	259	4
P.11	23	6' 9"	284	4
P.12	20	7' 4"	234	4
P.13	38	3' 3"	444	4
P.14	3	3' 2"	239	5



MARK	NO.	LENGTH	WEIGHT	S.N.
<b>SUPERSTRUCTURE</b>				
S.60	267	28' 6"	11,429	5
S.601	2	29' 1"	87	5
S.602	2	27' 10"	84	5
S.603	2	26' 7"	80	5
S.604	2	25' 4"	76	5
S.605	2	24' 1"	72	5
S.606	2	22' 10"	69	5
S.607	2	21' 7"	65	5
S.608	2	20' 4"	61	5
S.609	2	19' 1"	57	5
S.610	2	17' 10"	54	5
S.611	2	16' 7"	50	5
S.612	2	15' 4"	46	5
S.613	2	14' 1"	42	5
S.614	2	12' 10"	39	5
S.615	2	11' 7"	35	5
S.616	2	10' 4"	31	5
S.617	2	9' 1"	27	5
S.618	2	7' 10"	24	5
S.619	2	6' 7"	20	5
S.620	2	5' 4"	16	5
S.621	8	4' 1"	49	5
S.50	267	31' 8"	8,819	5
S.501	2	30' 8"	64	5
S.502	2	29' 5"	61	5
S.503	2	28' 2"	59	5
S.504	2	26' 11"	56	5
S.505	2	25' 8"	54	5
S.506	2	24' 5"	51	5
S.507	2	23' 2"	48	5
S.508	2	21' 11"	46	5
S.509	2	20' 8"	43	5
S.510	2	19' 5"	41	5
S.511	2	18' 2"	38	5
S.512	2	16' 11"	35	5
S.513	2	15' 8"	33	5
S.514	2	14' 5"	30	5
S.515	2	13' 2"	27	5
S.516	2	11' 11"	25	5
S.517	2	10' 8"	22	5
S.518	2	9' 5"	20	5
S.519	2	8' 2"	17	5
S.520	2	6' 11"	14	5
S.521	2	5' 8"	12	5
S.522	8	4' 5"	37	5
S.56	335	35' 8"	12,462	5
S.57	36	25' 0"	1,633	5
S.41	384	3' 0"	1,170	4

REPLACEMENT BARS				
RE-10	1	7' 2"	31	5
RE-9	1	6' 10"	23	5
RE-8	1	6' 6"	17	5
RE-7	1	6' 2"	13	5
RE-6	1	5' 11"	9	5
RE-5	2	5' 7"	12	5
RE-4	1	5' 3"	7	5



NOTE:  
 PIER FOOTINGS shall extend 3 inches into sandy shale or to the elevation shown, whichever is lower.  
 REINFORCING BARS shall be 2 inches clear from base of concrete unless otherwise noted. Reinforcing in pier caps shall be placed to clear bearing area of bars.

STATE OF OHIO  
 DEPARTMENT OF HIGHWAYS  
 BUREAU OF BRIDGES AND RAILROAD CROSSINGS

**PIER DETAILS AND REINFORCING STEEL LIST**

BRIDGE NO. ME-252-42  
 OVER WEST BRANCH OF ROCKY RIVER

MEDINA COUNTY  
 SEC. MED-252-3.76 STA. 209+38.00

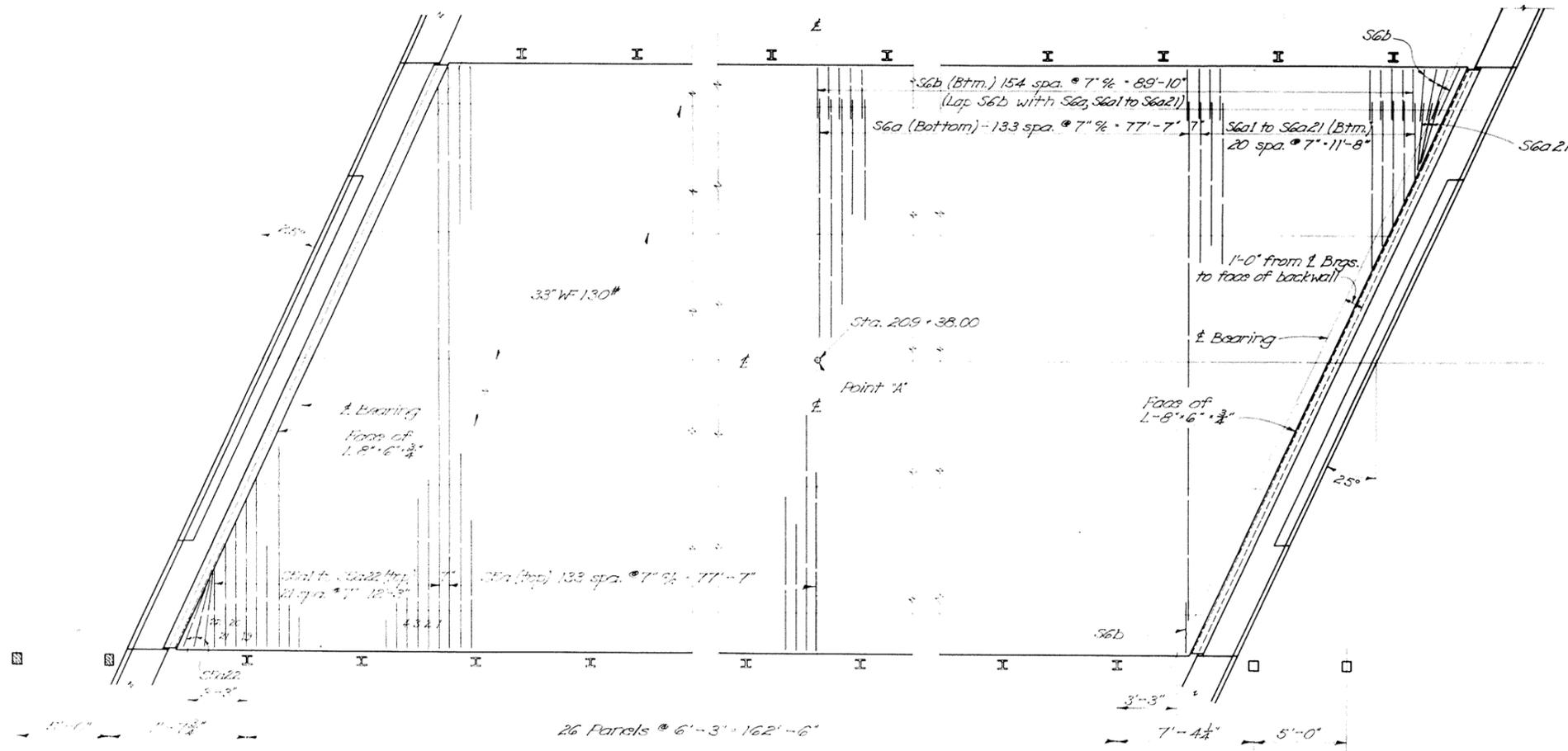
DESIGNED	DRAWN	TRACED	CHECKED	APPROVED	DATE	REVISION
J.V.G.	J.V.G.	E.A.	C.W.	B.F.G.	8-19-34	



FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	5-1168(1)	

27  
27

MED-252-3.76



PLAN OF SUPERSTRUCTURE SHOWING TRANSVERSE REINFORCING  
(Symmetrical by rotation about Point "A")

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

**SUPERSTRUCTURE PLAN**

BRIDGE No. ME-252-42  
over WEST BRANCH of ROCKY RIVER

Medina County  
Sec. MED-252-3.76 Sta. 209+38.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
J.V.G.	J.V.G.	DFG	C.W.	DFG	APR 8-19-54	