

Scale = 0 1 2 3  
DETOUR MAP

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS

S-1156-(2)

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	S-1156(2)

1  
35

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-24.03  
HIG-247-0.00

# ADA-247-24.03 HIG-247-0.00

CONCORD, JACKSON & SCOTT TOWNSHIPS

# ADAMS & HIGHLAND COUNTIES

CONVENTIONAL SIGNS

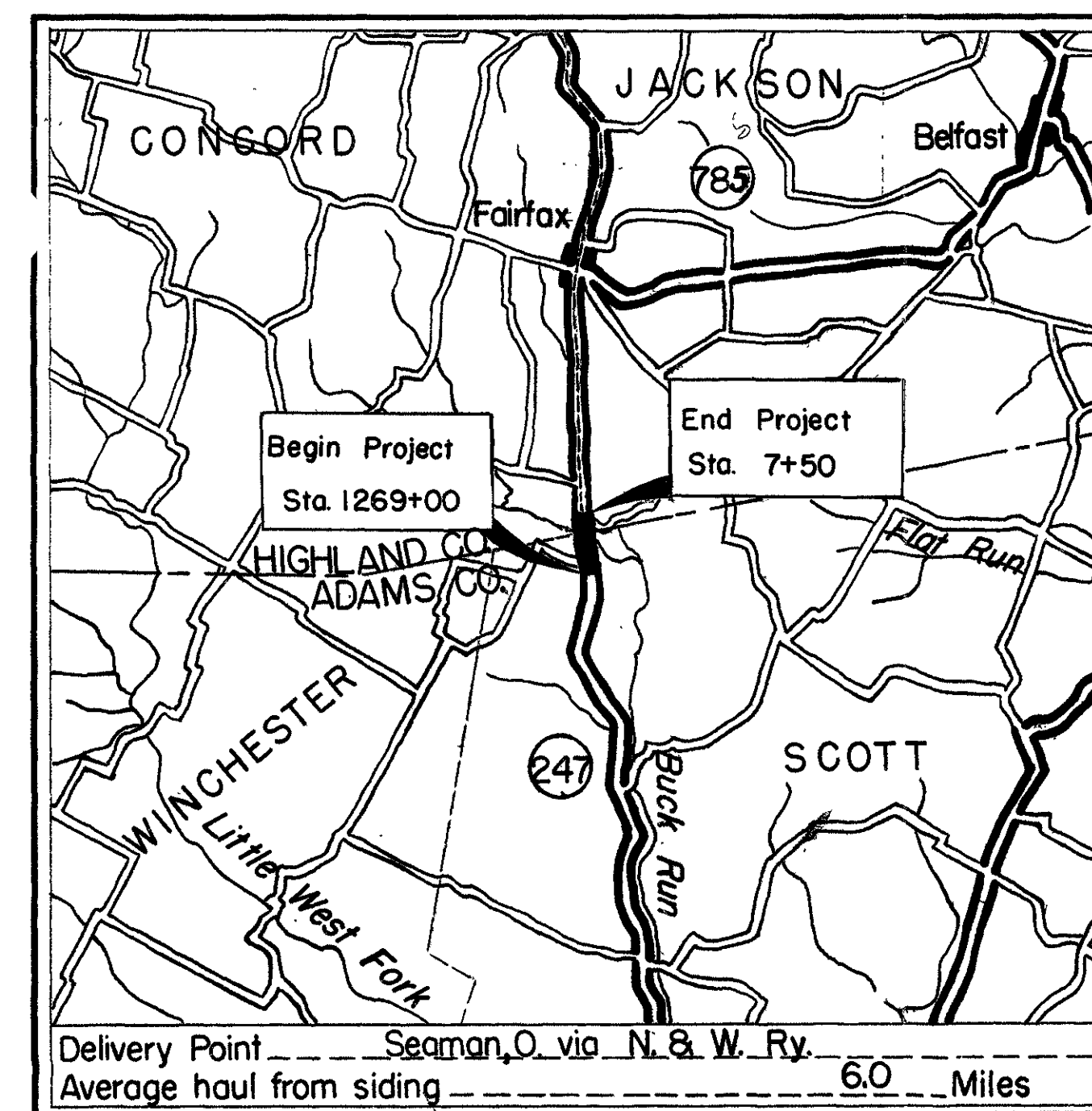
State Line	-----
County Line	-----
Township Line	-----
Section Line	-----
Center Line	-----
Corporation Line	-----
Fence Line	x x x x x x x x
Guard Rail (existing)	o o o o o o o o
Guard Rail (proposed)	o o o o o o o o
Steam Railroad	-----
Power Poles	⌘ ⌘ ⌘ ⌘
Telephone Poles	⌘ ⌘ ⌘ ⌘
Trees or Stumps (existing)	⊗ ⊗ ⊗ ⊗
Trees or Stumps (to be removed)	⊗ ⊗ ⊗ ⊗

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Right-of-Way	-----	35

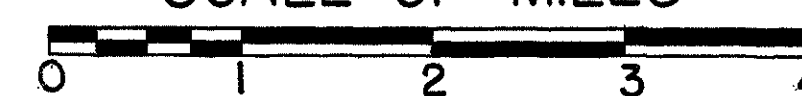
LINE DATA

Begin Project	Sta. 1269+00	
ADA-HIG. CO. Line	Sta. 1280+36.40	Back
Net Length Adams Co.	1136.40	Lin. Ft.
ADA-HIG. CO. Line	Sta. 0+00	Ahead
End Project	Sta. 7+50	
Net Length, Highland Co.	7+50	Lin. Ft.
Net Length of Project (Adams & Highland Counties)	1136.40 + 750.00 =	1886.40 Lin. Ft. or 0.357 Miles
Add for Approaches		
Sta. 1267+00 to Sta. 1269+00	200.00	Lin. Ft.
Sta. 7+50 to Sta. 9+00	150.00	Lin. Ft.
Net Length of Work	2236.40	Lin. Ft. or 0.423 Miles



LOCATION MAP

SCALE OF MILES



Portion to be improved  
State Roads  
Other Roads

SCALE

Plan	-----	1" = 50'
Profile: Horizontal	-----	1" = 50'
Profile: Vertical	-----	1" = 10'

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 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 closing of the highway to traffic, except as noted on sheet No. 3, and that detours will be provided as indicated on the plans.

Approved *Joseph N. Doyle* P.E. 1209  
Date 12-13-55 Division Deputy Director

Approved *John J. Keener* *esq.*  
Date 5-2-56 Deputy Director of Planning & Programming

Approved *Richard C. ...*  
Date 4/30/56 Engineer of Bridges

Approved *C. S. ...*  
Date 4-30-56 Engineer of Location & Design

Approved *W. F. ...*  
Date 4-30-56 Deputy Director of Design & Construction

Approved *V. G. ...*  
Date 5-3-56 First Assistant Director

Approved *S. ...*  
Date 5-3-56 Director of Highways

APR 3 1961  
GROUND PHOTOLAB

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

APPROVED:

\_\_\_\_\_  
DISTRICT ENGINEER

\_\_\_\_\_  
DATE

File No.	ADAMS COUNTY HIGHLAND COUNTY	ADA-247-24.03 HIG-247-0.00
Date of Letting	_____ 19	
Contract No.	_____	

Supplemental Prints of Standard Construction Drawings					
DR-1	1-3-55	I-15 No.1	8-1-55	L-3-A	4-1-50
G-7.07	4-2-56	I-15 No.2	12-1-54	RI-1	1-3-55
I-1,2,3,4&5	2-20-45			S-27 PC-4	1-4-54
I-8,G.B.2-2A&B	5-1-52	L-1	4-1-50	S-27 PC-3	2-20-45
I-14G	1-22-52	L-3	4-1-50	T-35	1-2-56
				AS-1-54	12-1-54
				SP 53	7-21-53

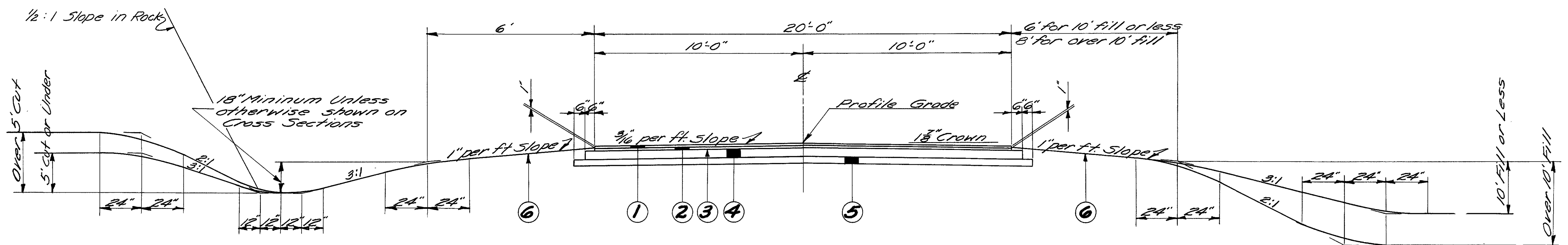
Supplemental Specifications	
B-119	Rev. 12-14-55
L-209.12	7-17-54
6	12-28-55

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-24.03  
HIG-247-0.00

# TYPICAL SECTION

## TYPE T-35 ON B-119

Scale  $\frac{3}{8}'' = 1'-0''$

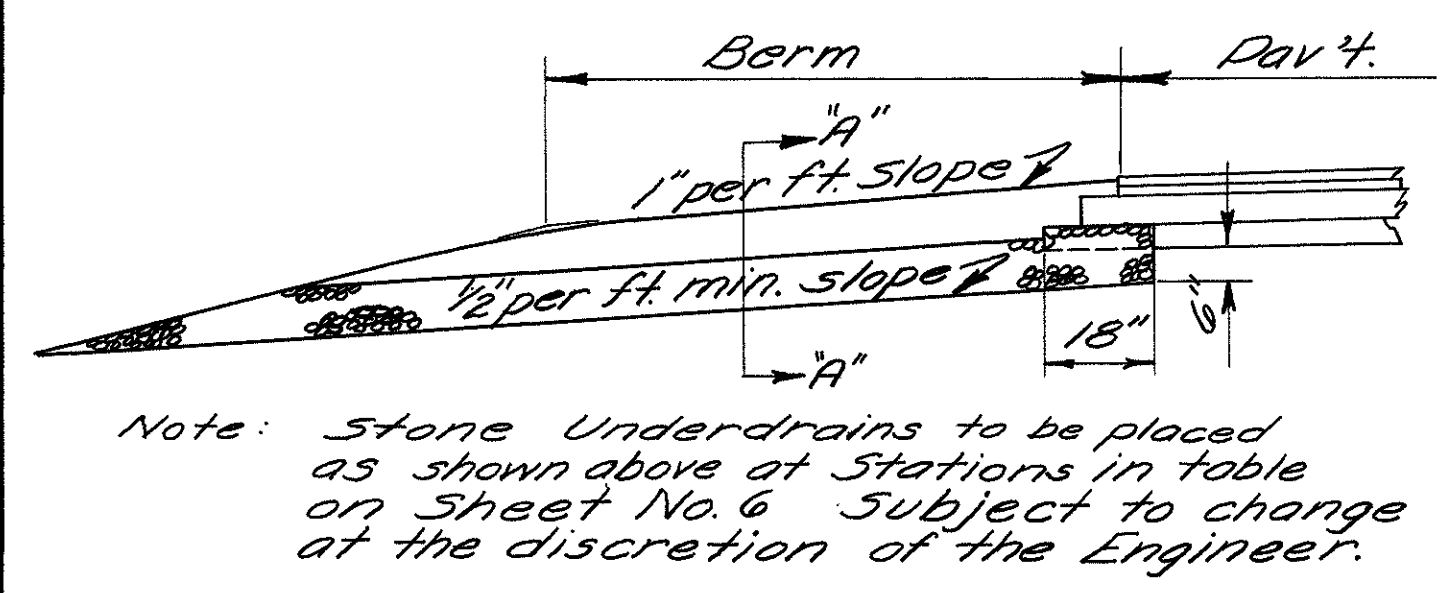


### TYPICAL SECTION "A"

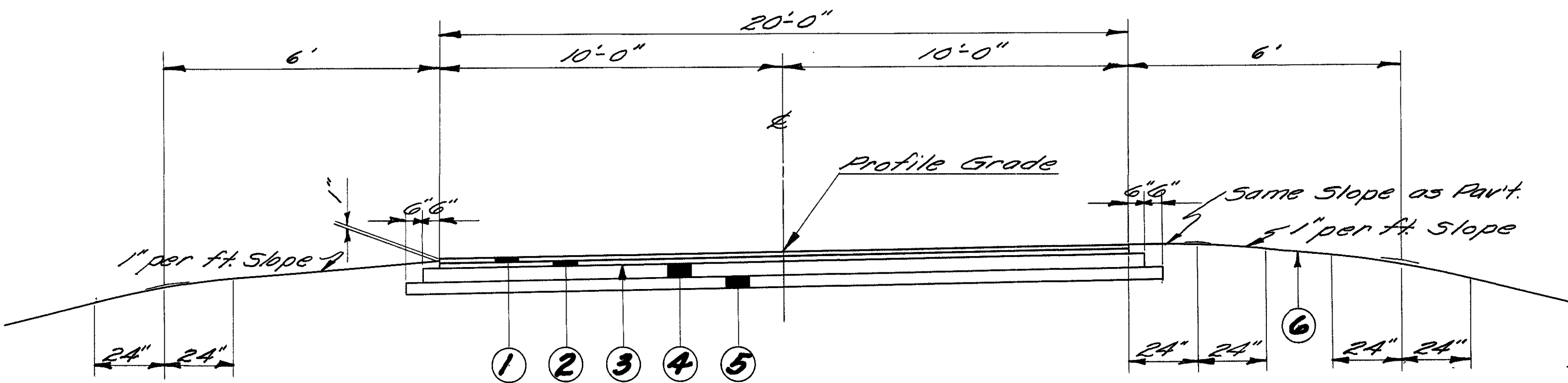
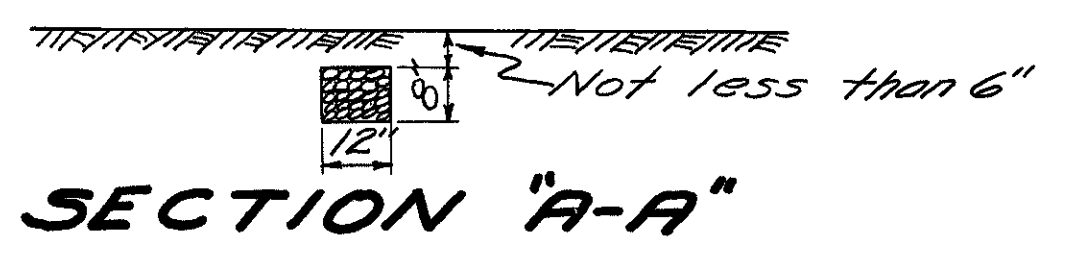
The above typical section applies between the following stations

Sta. 1269+00	to	Sta. 1275+77.78	=	677.78 Lin. Ft.
Sta. 0+75	to	Sta. 2+11.25	=	136.25 Lin. Ft.
Sta. 2+79.75	to	Sta. 3+24.57	=	44.82 Lin. Ft.
			Total	= 858.85 Lin. Ft.

BRIDGE NO. HIG-247-0004  
Limits of Bridge and Approach Slabs Sta. 2+11.25 to Sta. 2+79.75



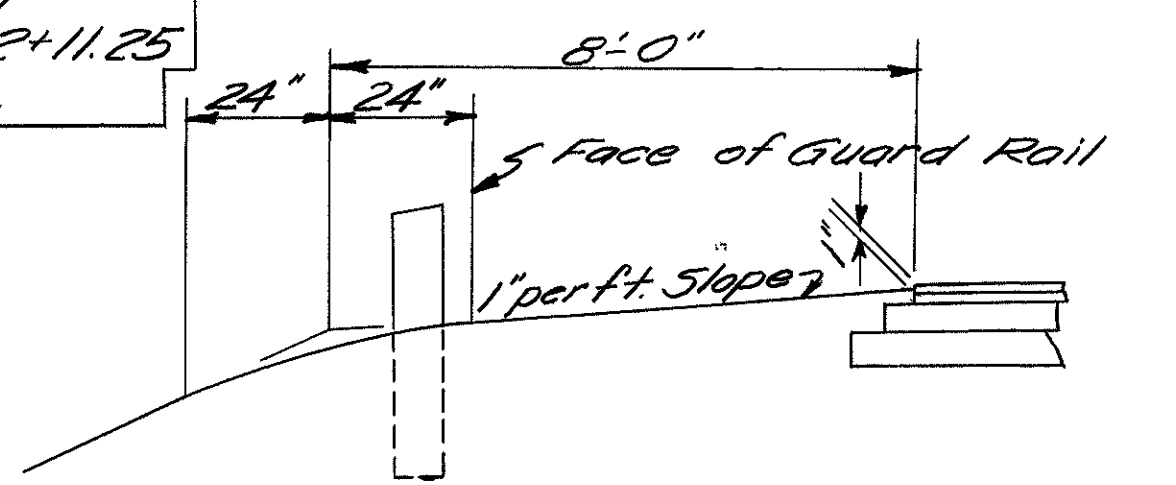
### TYPICAL SECTION OF I-9 STONE UNDERDRAINS



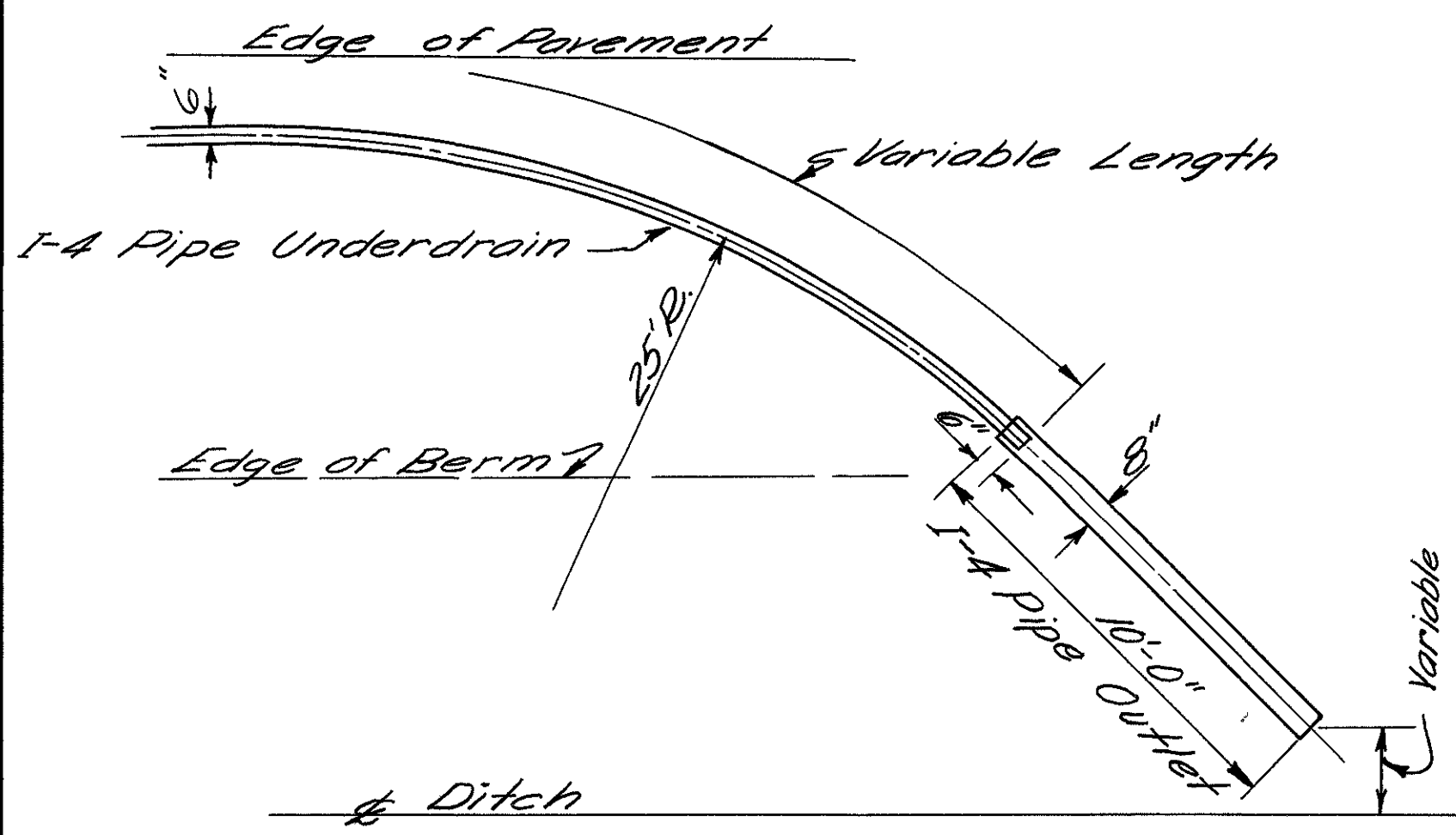
### TYPICAL SECTION "B"

The above typical section applies between the following stations

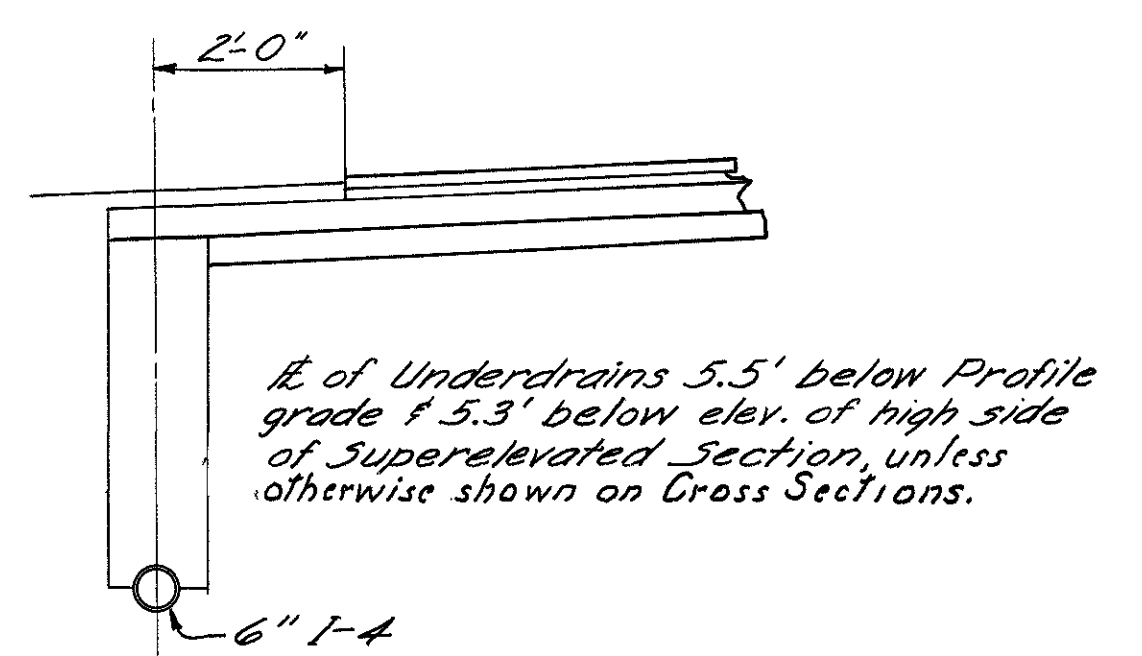
Sta. 1275+77.78	to	Sta. 1280+36.40	=	458.62 Lin. Ft.
Equation Sta. 1280+36.40	Back	=	Sta. 0+00	Ahead
Sta. 0+00	to	Sta. 0+75	=	75.00 Lin. Ft.
Sta. 3+24.57	to	Sta. 7+50	=	425.43 Lin. Ft.
			Total	= 959.05 Lin. Ft.



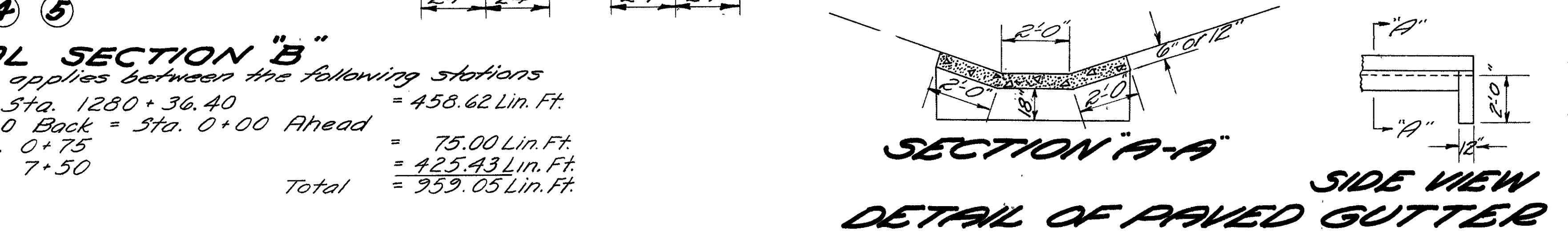
### PART SECTION SHOWING GUARD RAIL



### DETAIL OF PIPE OUTLET FOR I-4 UNDERDRAIN



### PART SECTION SHOWING I-4 UNDERDRAINS



### SECTION A-A SIDE VIEW DETAIL OF PAVED GUTTER

### LEGEND

- ① Item T-35 1 1/2" Asphaltic Concrete Surface Course Type A (85-100)
- ② Item B-35 2" Asphaltic Concrete Leveling Course (85-100)
- ③ Item T-30 Bituminous Prime Coat Sec. M-5.7, ET-2 or ET-3 or Sec. M-5.3, MC-0-MC-1 applied at the rate of 0.35 gal. per Sq. Yd.
- ④ Item B-119 5" Crushed Aggregate Base Course
- ⑤ Item I-22 4" Subbase
- ⑥ Item L-9 Seeding and Protecting

# NOTES

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

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ADAMS COUNTY  
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## GENERAL

### FIELD OFFICE

The contractor shall provide a suitable "Field Office" in accordance with Sec.-001(b), having a minimum of 200 Sq.Ft. of floor space.

### UTILITY ADJUSTMENT

Any and all work required for removing, relocating and construction of new facilities for private or public utilities will be done by and at the expense of their respective owners unless otherwise noted on the plans.

### DESIGN SPEED

The geometrics for this project have been planned for a design speed of 40 miles per hour.

### MAINTAINING TRAFFIC

Item T-10, 25 cu. yds. of aggregate has been included in the plans to be used as directed by the Engineer for maintaining traffic and to be paid for at the contract unit price bid for Item T-10 Traffic Compacted Surface Course for Maintaining Traffic.

This project may be closed for one period, not to exceed ninety (90) calendar days. Lights at the barricades marking the beginning and end of the detour shall be maintained by the Contractor for the duration of the detour.

The completed crushed aggregate base course, Item B-119, may be used for the maintenance of local traffic on the project. Any damage which is done to the base, subbase or subgrade by local traffic shall be repaired by reshaping, recompacting and by the addition of extra B-119 material, if necessary. Reshaping and recompacting operations shall be done at no additional cost to the State.

## PAVEMENT

### 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.

## ROADWAY

### ROADWAY EXCAVATION

All roadway excavation shown on the roadway cross-sections, regardless of the nature of the material encountered, will be paid for as Item E-1 Roadway Excavation.

### LOCATION AND SIZE OF EXISTING PIPE

The location, type, depth and size of all existing pipes are shown as near exact as the available information will permit. The State of Ohio will not be responsible for any variations found during construction.

Payment for pipe removed will be made according to the listing shown on these plans.

### REMOVAL (MISCELLANEOUS)

The removal and disposal of any existing pavement, sidewalks, building foundations, steps, cellar floors, well covers, cisterns, tanks of all kinds, concrete bases, walls, curb and gutters, rails, ties, pole stubs, guard posts, head walls, pipes, cast iron plates, or other masonry lying within or below the limits of Roadway Excavation, Item E-1; Excavation for Structures, Item E-2; or Channel Excavation, Item E-3, (and not specifically paid for under a separate item) are classified as excavation and paid for under the excavation item of which they are a part.

Sidewalks, steps, cellar floors or other masonry shall be excavated to a depth of three (3) feet below the proposed pavement subgrade if located within the proposed pavement area, and to a depth of three (3) feet below the proposed finished surface if without the limits of the proposed pavement area.

Pavement, cellar floors, or other masonry below the above limits shall be broken up into portions whose area does not exceed one (1) square foot but need not be removed.

Backfilling shall be performed according to section E-108 of the Construction and Material Specifications.

Wells, cisterns, and tanks of all kinds shall be filled with broken foundation masonry or rock placed as rock embankment according to section E-108 of the Construction and Material Specifications.

Payment for the above operations shall be included in the contract unit price bid for Roadway Excavation, Item E-1; Excavation for Structures, Item E-2; and Channel Excavation, Item E-3.

Additional excavation necessary to perform any of the above operations shall be paid for at the contract unit price bid per cubic yard for Roadway Excavation, Item E-1; Excavation for Structures, Item E-2; and Channel Excavation, Item E-3.

# NOTES

FED. RD. DIVISION	STATE	PROJECT
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ADAMS COUNTY  
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## ROADWAY

### REMOVAL OF TREES AND STUMPS

Trees or stumps shall be removed or preserved as indicated on the plan by the following symbols:

Trees or stumps to be removed 

Trees to be preserved 

The number of trees or stumps to be removed as indicated by the above symbols are approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps, even though these trees or stumps are not indicated on the plans or are indicated to be preserved.

Payment for the removal of these additional trees or stumps is included in the Lump Sum bid for the removal of trees and stumps.

### TOE WALLS

Payment for Toe Walls on Paved Gutters or riprap where called for in these plans, shall be included in price bid per linear foot of paved gutters or square yard of riprap.

### ROUNDING OF CORNERS ON CROSS SECTIONS

The rounded corners shown on the Typical Sections apply to all cross sections even though otherwise shown in these plans.

### PAVED GUTTERS

Paved gutters shall be constructed of stone or broken concrete to a minimum thickness of twelve (12) inches, or Class 5 concrete to a minimum thickness of six (6) inches. Solid precast concrete blocks may be used in lieu of stone with a minimum thickness of twelve (12) inches measured perpendicular to the surface of the ditch.

Concrete gutters shall have an impressed joint at intervals of ten (10) feet.

When constructed of material other than concrete the material shall be grouted in place.

### FERTILIZING SOD AREAS

All sod areas are to have Commercial Fertilizer (10-6-4) and Agricultural Liming Materials applied at the same rate and in the same manner as for the seeded areas in accordance with Section L-9.11.

The sod bed shall have two (2) inches of loose soil on which sod is laid after excavation for sod thickness.

### SEEDING AND PROTECTING

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. All areas outside these limits where the vegetative growth has been injuriously disturbed or destroyed by the Contractor shall be restored and seeded in accordance with the provisions of Item L-9 by the contractor at his own expense.

### LENGTH OF PIPE SPECIALS

The number of linear feet of pipe to be paid for shall be the length of specials as shown below regardless of the actual length of pipe special used. If actual length of the pipe special used is less than that shown below, the contractor will furnish enough extra pipe to make up the difference between the assumed and actual lengths, at the price bid for each special. If the actual length of the pipe specials used is greater than that shown below, the extra length of each pipe special, over and above the assumed length, shall be paid for as linear feet of pipe.

Item	Description	Assumed Length of Pipe Special
I-4	Pipe Underdrains	2'-0"

### PAVED GUTTER AND SODDING

In areas where rock is encountered in the proposed ditch line, proposed paved gutters or sodding may be non-performed at the direction of the Engineer.

### ITEM I-10 DUMPED ROCK FILL, AS PER PLAN.

The cost of any additional excavation required for placing the dumped rock fill shall be included in the unit price bid for I-10 Dumped Rock Fill, as per plan.

**GUARD RAIL REMOVED AND STORED** -- Plank, Steel Cable and Hardware shall be stored on the right of way at the disposal of the State.

### COMPACTION FOR DRIVES :-

The subgrade for drives and mailbox turnouts shall be compacted to a depth of six (6) inches to the density requirements of Table III, Item E-1. Payment for subgrade compaction as specified above shall be included in the unit price bid for Item E-1 Roadway Excavation, as per plan.

# SUMMARY OF QUANTITIES

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-24.03  
HIG-247-0.00

## PAVEMENT CALCULATIONS

See Note  
in Proposal.

See Sheet No.	Description & Location	T-35 Asphaltic Concrete Surface Course				B-35 Asphaltic Concrete Leveling Course		B-119 Crushed Aggregate Base Course			I-22 Subbase		T-30 Bituminous Prime Coat @0.35 gal. per Sq. Yd.	T-30 Bituminous Tack Coat @0.10 gal. per Sq. Yd.	I-7 Reinforced Concrete Approach Slab 10"	I-9 Stone Underdrains No. 2
		1 1/4"	2"	2 1/2"	Variable	2"	Variable	5"	6"	Variable	4"	Variable	Sq. Yds.	Sq. Yds.	Sq. Yds.	Lin Ft.
		Sq. Yds.	Sq. Yds.	Sq. Yds.	Cu. Yds.	Sq. Yds.	Cu. Yds.	Sq. Yds.	Sq. Yds.	Cu. Yds.	Sq. Yds.	Cu. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Lin Ft.
2	Typical Section "A" 858.85' x 20' x 1/2" 858.85' x 21' x 1/2" 858.85' x 22' x 1/2"	1908.56				1908.56		2003.98				2099.41		2003.98		
2	Typical Section "B" 959.05' x 20' x 1/2" 959.05' x 21' x 1/2" 959.05' x 22' x 1/2"	2131.22				2131.22		2237.78				2344.34		2237.78		
10	Approach Slabs 2+11.25 - 2+26.25 2+64.75 - 2+79.75			33.33 33.33							35.0 35.0			33.33 33.33	33.33 33.33	
6	To be used as shown in table on Sht. No. 6															364.0
	Feather Areas 9+12 1269+00 - 1269+00 11+12 7+50 - 8+50				5.72 7.14		4.16 8.62				7.66 6.74			4.96 5.14	144.7 156.4	
6	Add for Drives		138.34					150.26	586.53							
9+26	Twp. Rd. Lt. & Sta. 1273+43.44	278.17				278.17		279.50			280.83			279.50		
11+27	Twp. Rd. Rt. & Sta. 6+56.4	100.55				100.55		102.78			104.99			102.78		
	Sub-Total	4418.5	138.34	66.66	12.86	4418.5	12.78	4774.30	586.53	14.40	4899.57	10.10	4925.14	66.66	66.66	364.0
	Conv. to Cu. Yds. Cals. etc.	153.42	7.63	4.63	12.86	245.47	12.78	663.10	97.76	14.40	544.39	10.10	1723.80	6.67	66.66	364.0
	Total		178.60			258.25		775.26			554.49		1723.80	6.67	66.66	364.0

## STRUCTURES 20 FT. SPAN & UNDER

Structure No.	Station	See Sheet No.	E-2	I-10	I-10	S-1	S-24	S-27		
			Excavation for Structures	Riprap Type A'	Dumped Rock	Concrete for Structures	Removal of Exist. Structures	Pipe for Roadway Culverts		
			Cu. Yds.	Sq. Yds.	Cu. Yds.	Cu. Yds.	Lump	Lin. Ft.		
1	1272+20	28	32	9				18"	27"	60"
2	1275+17	29	18	10				66	96	
3	0+45	30	31		16					70
	Total		81	19	16	6.24	Lump	66	96	70

## EXCAVATION & EMBANKMENT

See Sheet No.	Station to Station	E-1	Roadway	Embank-
		Roadway Excavation	Embank- ment	ment + 20%
		Cu. Yds.	Cu. Yds.	Cu. Yds.
13	1267+00 - 2+26.25	4598	6616	
22	2+64.75 - 9+00	761	1998	
	Total	5359	8614	10,397

# SUMMARY OF QUANTITIES

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-24.03  
HIG-247-0.00

## ROADWAY DRAINAGE

See Sheet No.	Station to Station	Side	E-12	I-4	I-4	I-5	I-1	I-3	I-8		
			Pipe Removed 15" Over Lin. Ft.	6" Underdrains Lin. Ft.	8" Pipe Outlet for Underdrains Lin. Ft.	Pipe Specials for 6" Underdrains 6" T-Branch, 6" 90° Elbow Each	Pipe for Driveways Lin. Ft. 12" 15" 18"	Pipe for Roadway Drainage Lin. Ft. 18"	Std. No. 2-2A Catch Basin Each		
10	1276+00 - 0+25.5	Lt.		464	10						
10	1276+50 - 1279+00	Rt.		250							
10	1279+00	Rt.		24		1	1				
10	1+25 - 2+25.5	Lt.		95	10						
11	5+50	Lt.	8.4								
9	1274+41	Lt.							1		
9	1274+41 - 1274+81	Lt.					40				
10/11	4+74 - 5+30	Lt.					56				
11	5+30	Lt.							1		
11	5+30 - 6+16	Lt.						86			
11	7+97.5	Lt.					40				
9	(Fld. Dr.) Lt. & off Twp. Rd. Sta. 1273+43.44					58					
Total			8.4	833	20	1	1	98.40	56	86	2

## GUARD RAIL

See Sheet No.	Station to Station	Side	I-15	I-15
			Guard Rail Steel Beam Type (Deep) Lin. Ft.	Guard Rail Removed & Stored Plank & Cable Lin. Ft.
10	0+13 - 0+45	Rt.		32.0
10	0+65 - 0+93	Rt.		28.0
10	0+14 - 0+46	Rt.		32.0
10	0+65 - 0+93	Rt.		28.0
10	1+29 - 2+23	Rt.		24.0
10	2+67 - 2+91	Rt.		24.0
10	2+00 - 2+24	Rt.		24.0
10	2+67 - 2+91	Rt.		24.0
9	1271+73 - 1272+73	Lt.	100.0	
9	1271+25 - 1272+75	Rt.	150.0	
10	0+12.5 - 0+62.5	Lt.	50.0	
10	0+26.5 - 0+76.5	Rt.	50.0	
10	2+11.28 - 2+98.78	Lt.	87.5	
10	1+92.23 - 4+17.23	Rt.	225.0	
10	Deduct for Bridge		-77.0	
Total			585.5	216.0

## BORROW CALCULATIONS

Embankment + 20% ——— 10,337 Cu. Yds.  
Excavation ——— 5,359 Cu. Yds.  
E-4 Net Borrow ——— 4,978 Cu. Yds.

## SIDEWALK & CONCRETE STEPS

See Sheet No.	Station	Side	I-13	I-13
			Concrete Steps 16" Tread 4" Rise Lin. Ft.	Concrete Sidewalk 4" Sq. Ft.
9	1274+38 - 1274+52.6	Lt.		31
11	5+50	Lt.	27	
Total			27	31

## EROSION CONTROL

See Sheet No.	Station to Station	Side	I-14	L-9	L-9	L-9	L-10
			Paved Gutter as per Plan Lin. Ft.	Seeding & Protecting Sq. Yds.	Commerical Fertilizer (10-6-4) Tons	Agricultural Liming Material Tons	Sodding as per Plan Sq. Yds.
9	1270+00 - 1272+26	Lt.					150.67
9	1270+00 - 1271+65	Rt.					110.00
10	1278+50 - 0+23	Lt.					139.60
10	2+73 - 4+75	Lt.	202				
10	1277+50 - 1279+75	Rt.					150.00
10	2+73 - 4+38	Rt.	165				
10	4+38 - 5+00	Rt.					41.33
13	1267+00 - 2+26.25	Rt.		794.5			
22	2+64.75 - 9+00	Rt.		2367			
Total			367	10,312	0.98	4.90	591.6

## DRIVES & APPROACHES

See Sheet No.	Station to Station	Side	T-35	B-119
			2" Asph. Concrete Surface Course Sq. Yds.	Crushed Aggregate Base Course 5" 6" Sq. Yds.
9	1269+17 (Fld. Dr.)	Lt.		70.03
9	1274+58.6 (Res. Dr.)	Lt.	75.35	80.22
9	1268+82.6 (Fld. Dr.)	Rt.		75.35
9	1273+73 (Fld. Dr.)	Rt.		70.03
9	1274+58.6 (M.B.)	Rt.	30.83	34.07
9	(Fld. Dr. Lt. & off Twp. Rd. Sta. 1273+43.44)			70.03
11	5+07.7 (Fld. Dr.)	Lt.		70.03
11	7+97.5 (Fld. Dr.)	Lt.		70.03
11	5+50.5 (M.B.)	Rt.	32.16	35.97
11	7+97.5 (Fld. Dr.)	Rt.		70.03
11	(Fld. Dr. Rt. of & off Twp. Rd. Sta. 6+56.4)			91.0
Total			138.34	586.53

Quantities carried to Port calculation Box Sta. No. 5

## I-9 STONE UNDERDRAINS TO BE PLACED RT. & LT. &

RT. &	LT. &
1269+50	1270+00
1270+50	1271+00
1271+50	1272+00
1272+50	1273+00
1273+35	1274+00
1274+12	1275+00
1275+50	1700
1+50	
3+00	
3+50	
4+00	
4+50	
5+00	
6+00	
7+00	
7+50	

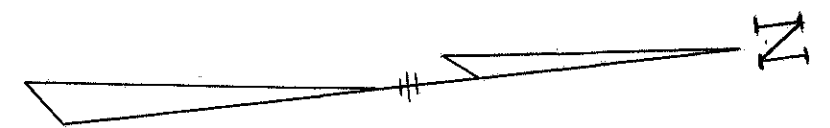
## REMOVAL OF TREES & STUMPS

Item E-9 — Lump

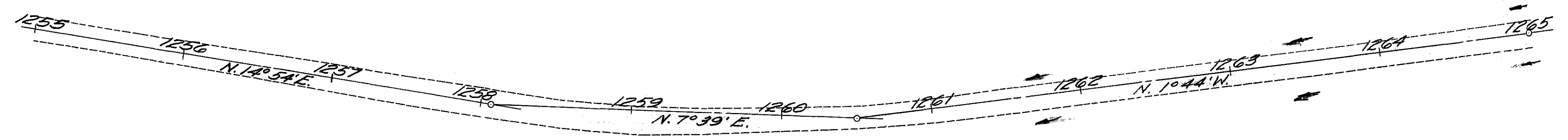


**UTILITY OWNERS**

POWER: Columbus and Southern Ohio Electric Co.  
Columbus, Ohio.



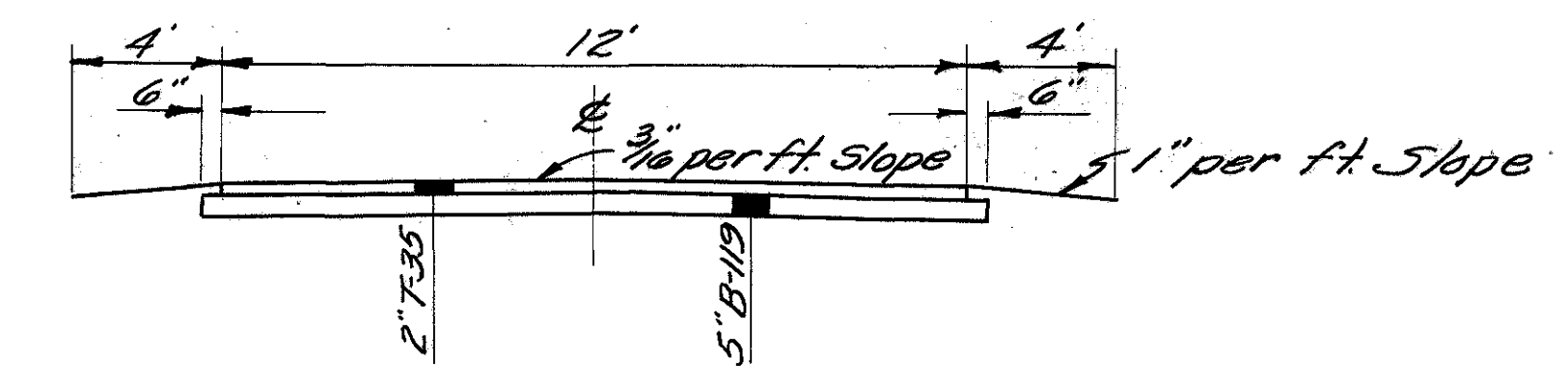
ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-24.03  
HIG-247-0.00



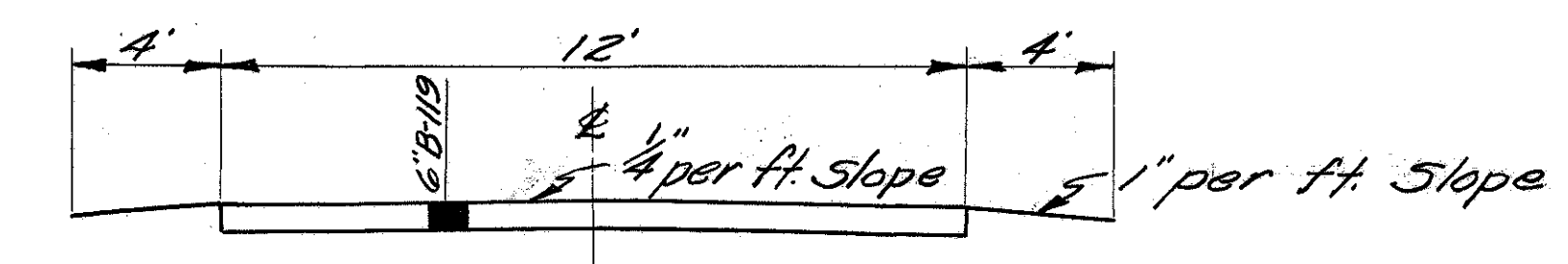
Ex. P.I. Sta. 1258+06.82  
 $\Delta = 7^{\circ}15' Lt.$

Ex. P.I. Sta. 1260+50  
 $\Delta = 9^{\circ}-13' Lt.$

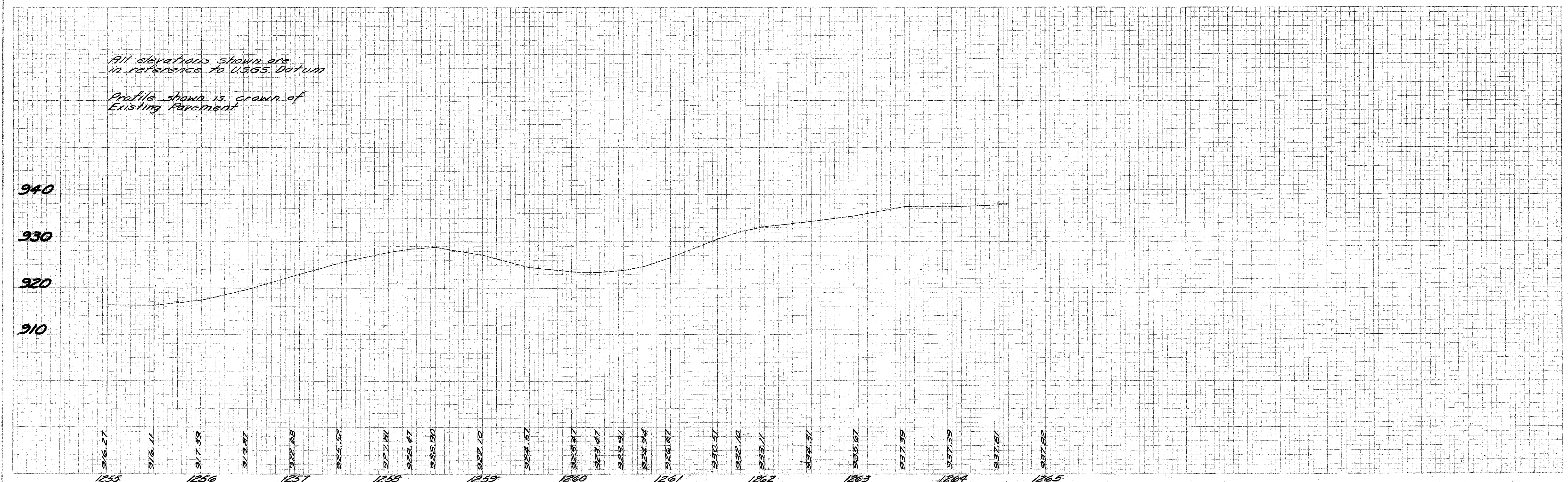
Ex. P.I. Sta. 1265+00  
 $\Delta = 0^{\circ}30' Lt.$



**TYPICAL RESIDENCE DRIVE**



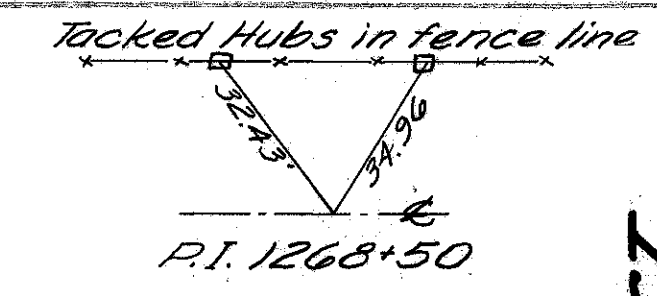
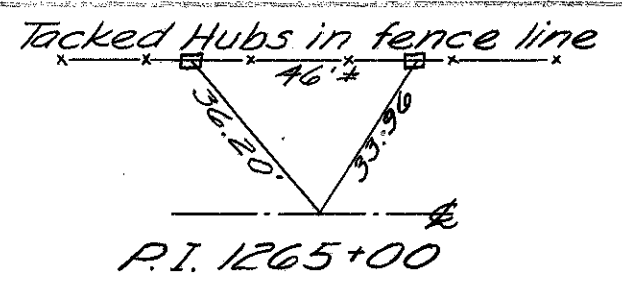
**TYPICAL FIELD DRIVE**



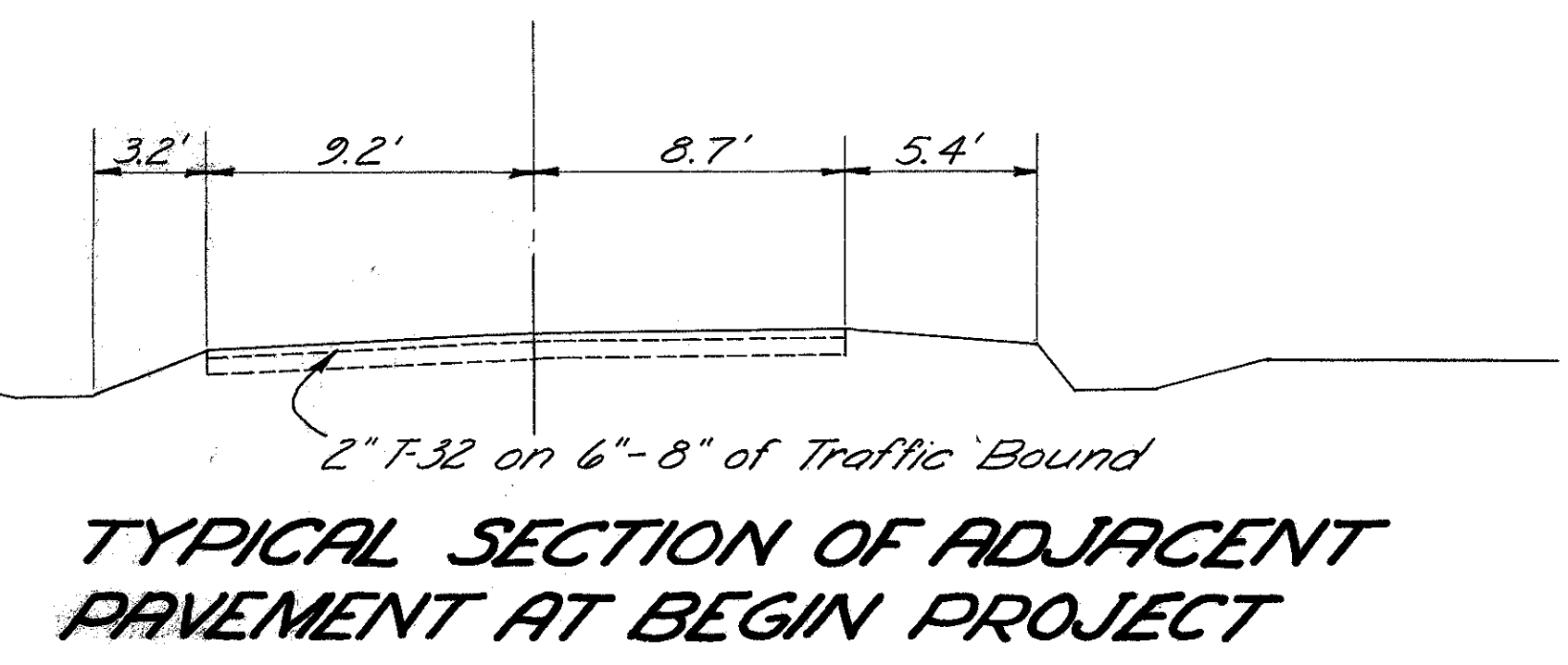
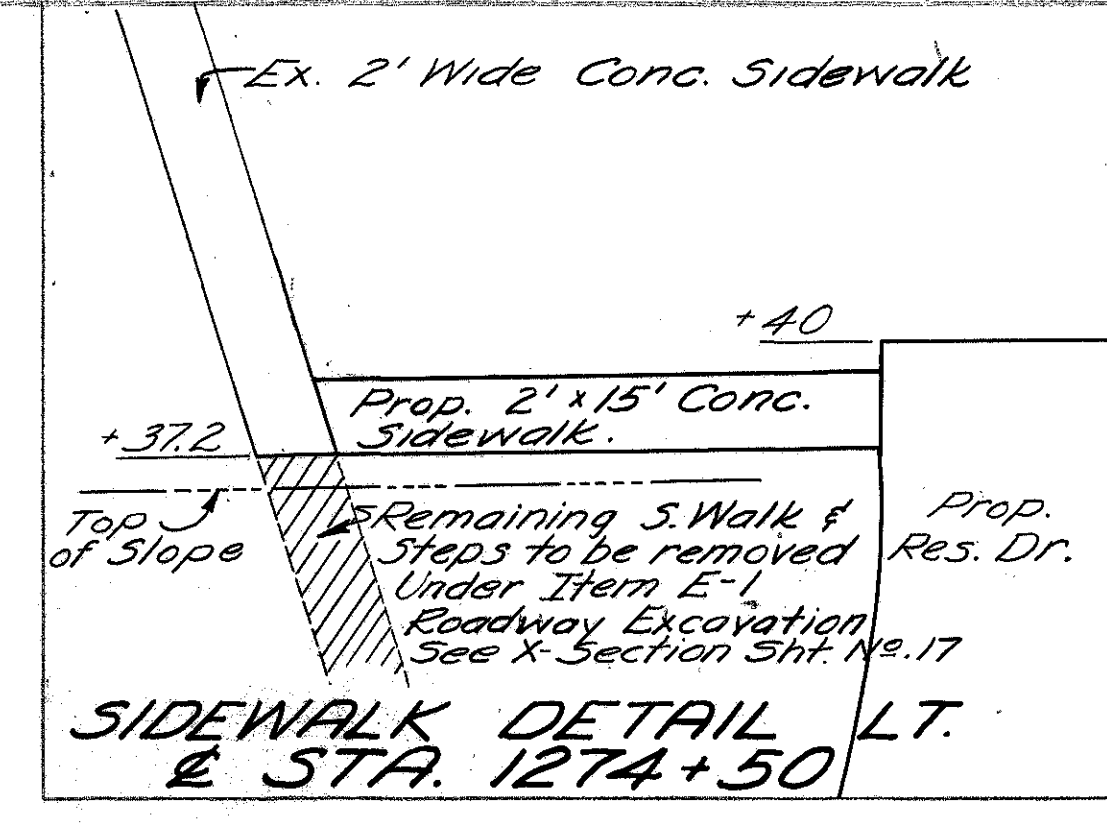
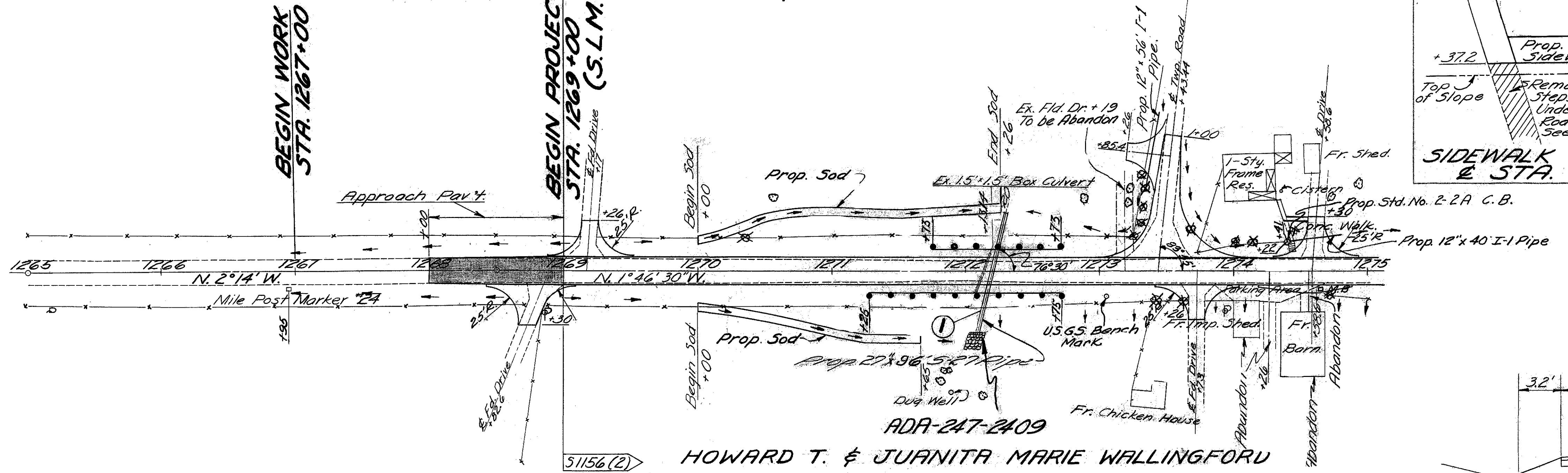
STA. 1255+00 TO STA. 1265+00



ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-24.03  
HIG-247-0.00



HOWARD T. & JUANITA MARIE WALLINGFORD



Ex. P.I. Sta. 1265+00  
 $\Delta = 0^\circ 30' 27''$

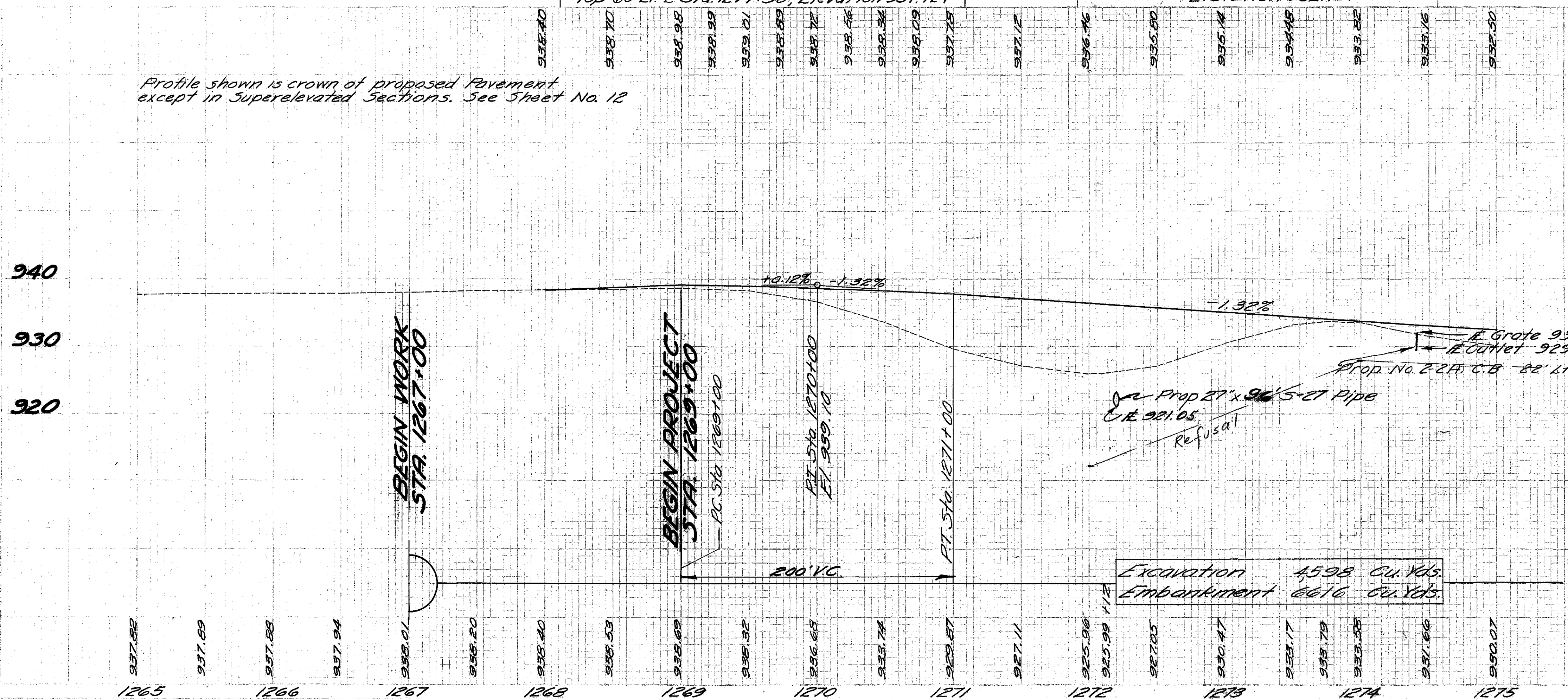
Note: Federal Aid Marker to be furnished and erected by the State on the right before acceptance of this Improvement.  
Ex. P.I. Sta. 1268+50  
 $\Delta = 0^\circ 27' 30''$  Rt.

HOWARD T. & JUANITA MARIE WALLINGFORD

**BENCH MARK**  
□ Cut on N.W. Corner Conc. Cistern  
Top 60' Lt. & Sta. 1274+90, Elevation 937.424

**BENCH MARK**  
U.S.G.S. Bench Mark 19' Rt. & Sta. 1273+06  
Elevation 932.427

Profile shown is crown of proposed Pavement except in Super-elevated Sections. See Sheet No. 12



FOR ESTIMATED QUANTITIES SEE SHEET No. 516  
FOR DETAIL OF APPROACH STA. 1268+00 TO STA. 1269+00 SEE SHEET No. 12  
FOR DETAIL OF STRUCTURE No. 1 SEE SHEET No. 28  
FOR DETAIL OF TWP. ROAD LT. & STA. 1273+43.44 SEE SHEET No. 26

**ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-2403  
HIG-247-000**

**EXISTING BRIDGE DATA**

Bridge No.	H1-247-00A
Type	Open Truss
Span	35'-6"
Roadway	15'-8"
Skew	0°-00'
Condition	Poor
Reduction	75%

**PROPOSED STRUCTURE**

Type: Single span reinforced concrete slab with reinforced concrete substructure.  
 Span: 36' face to face of abutments.  
 Roadway: 32' face to face of guard rails.  
 Load Frequency: CF = 50 (5')  
 Skew: None  
 Wearing Surface: Bituminous.  
 App. Slabs: A5-1.54 (15' long)  
 Alignment: Tangent.

**CURVE DATA**  
 P.I. Sta. 1278+50  
 $\Delta = 6^{\circ}18'Lt$   
 $Dc = 1^{\circ}30'$   
 $R = 3819.72'$   
 $T = 210.22'$   
 $L = 420.00'$

HOWARD T. & JUANITA MARIE WALLINGFORD

ERNEST HOWARD

HOWARD T. & JUANITA MARIE WALLINGFORD

ALICE WALLACE

**EXISTING BRIDGE DATA**

Bridge No.	H1-247-00
Type	Conc. Slab
Span	11'-6"
Roadway	14'-2"
Skew	0°-00'
Condition	Good
Reduction	None

**PROPOSED STRUCTURE DATA**

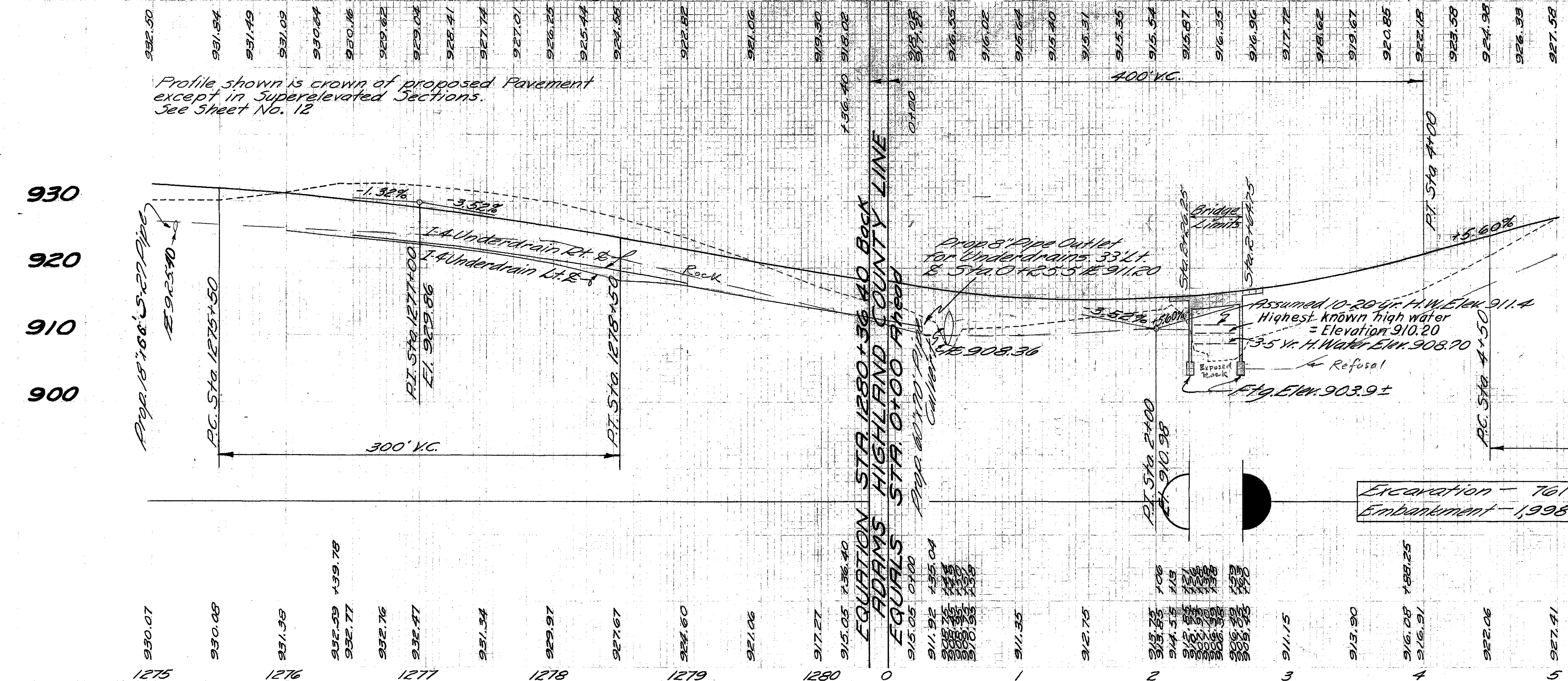
Type	Prop. Pipe Culvert
Diameter	3'-0"
Length	70'
Skew	22°30' R.F.
Roadway	32' face of Guard Rail
Surface	Bituminous on fill
Alignment	Tangent

**BENCH MARK**  
 Painted Cut square on S.W. Wing of Br. #00A  
 Elevation 913.32

**FOR ESTIMATED QUANTITIES  
SEE SHEET No. 546**

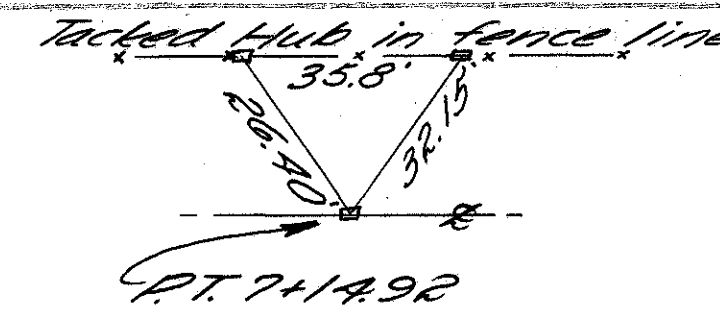
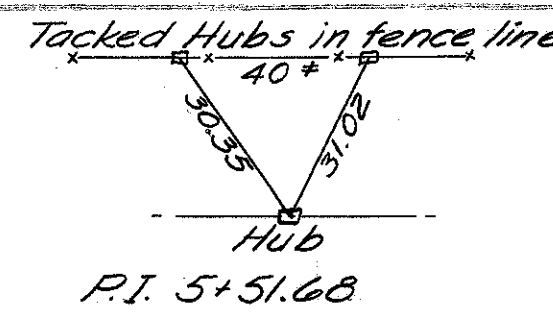
**FOR DETAIL OF STRUCTURE  
No. 2 SEE SHEET No. 29**

**FOR DETAIL OF STRUCTURE  
No. 3 SEE SHEET No. 30**



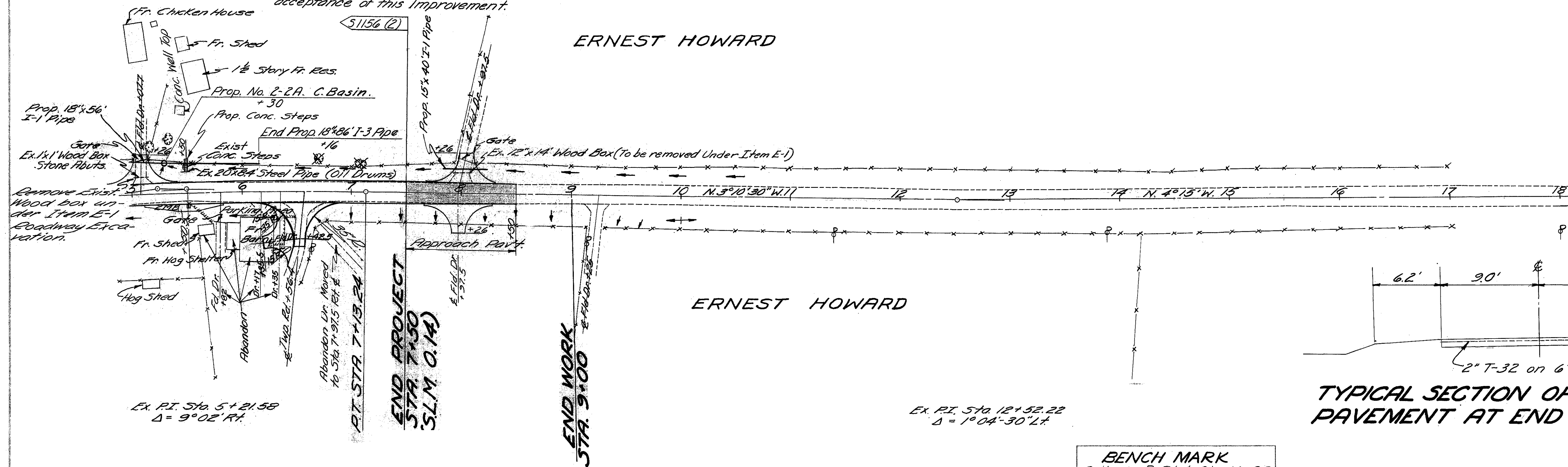
**CURVE DATA**  
 PI STA. 5+51.68  
 $\Delta = 4^{\circ}54' RT$   
 $D_c = 1^{\circ}30'$   
 $R = 3819.72$   
 $T = 163.43'$   
 $L = 326.67'$

Note:  
 Federal Aid Marker to be furnished and erected on the left by the State before the acceptance of this Improvement.



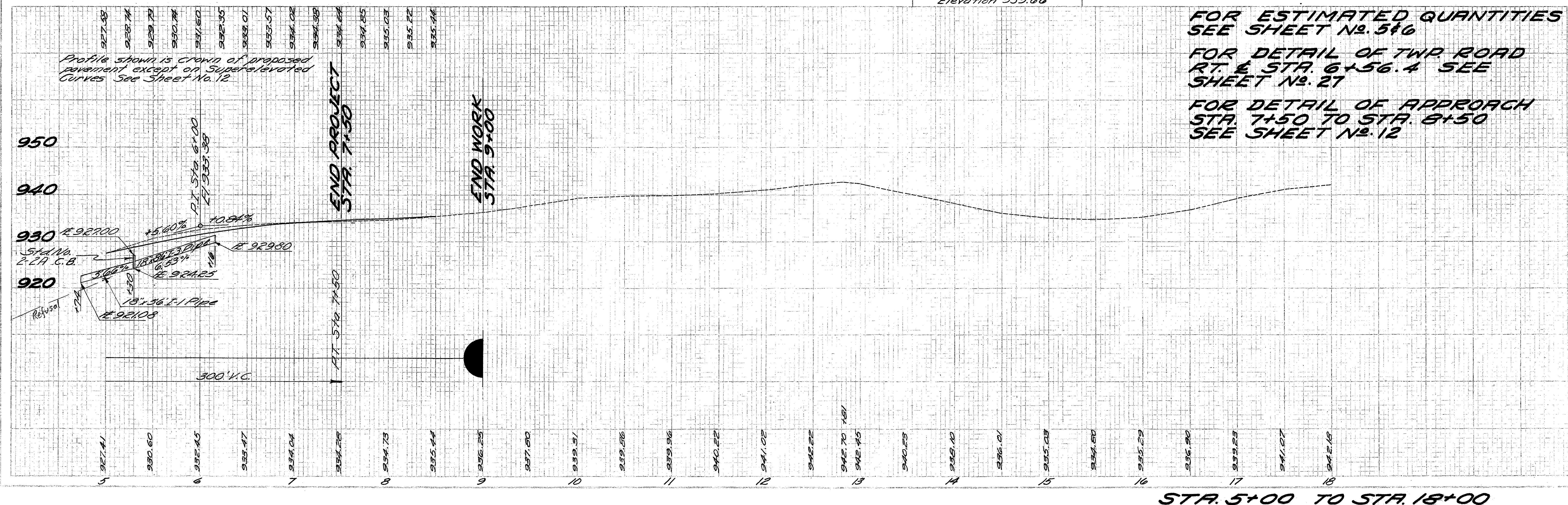
FED. RD. DIVISION	STATE	PROJECT	11
2	OHIO		35

**ADAMS COUNTY  
 HIGHLAND COUNTY  
 ADA-247-2403  
 HIS-247-0.00**



**TYPICAL SECTION OF ADJACENT PAVEMENT AT END PROJECT**

**BENCH MARK**  
 Spike in Rt & Sta. 14+00  
 Elevation 939.66



**FOR ESTIMATED QUANTITIES  
 SEE SHEET No. 5+6**  
**FOR DETAIL OF TWP. ROAD  
 RT. & STA. 6+56.4 SEE  
 SHEET No. 27**  
**FOR DETAIL OF APPROACH  
 STA. 7+50 TO STA. 8+50  
 SEE SHEET No. 12**

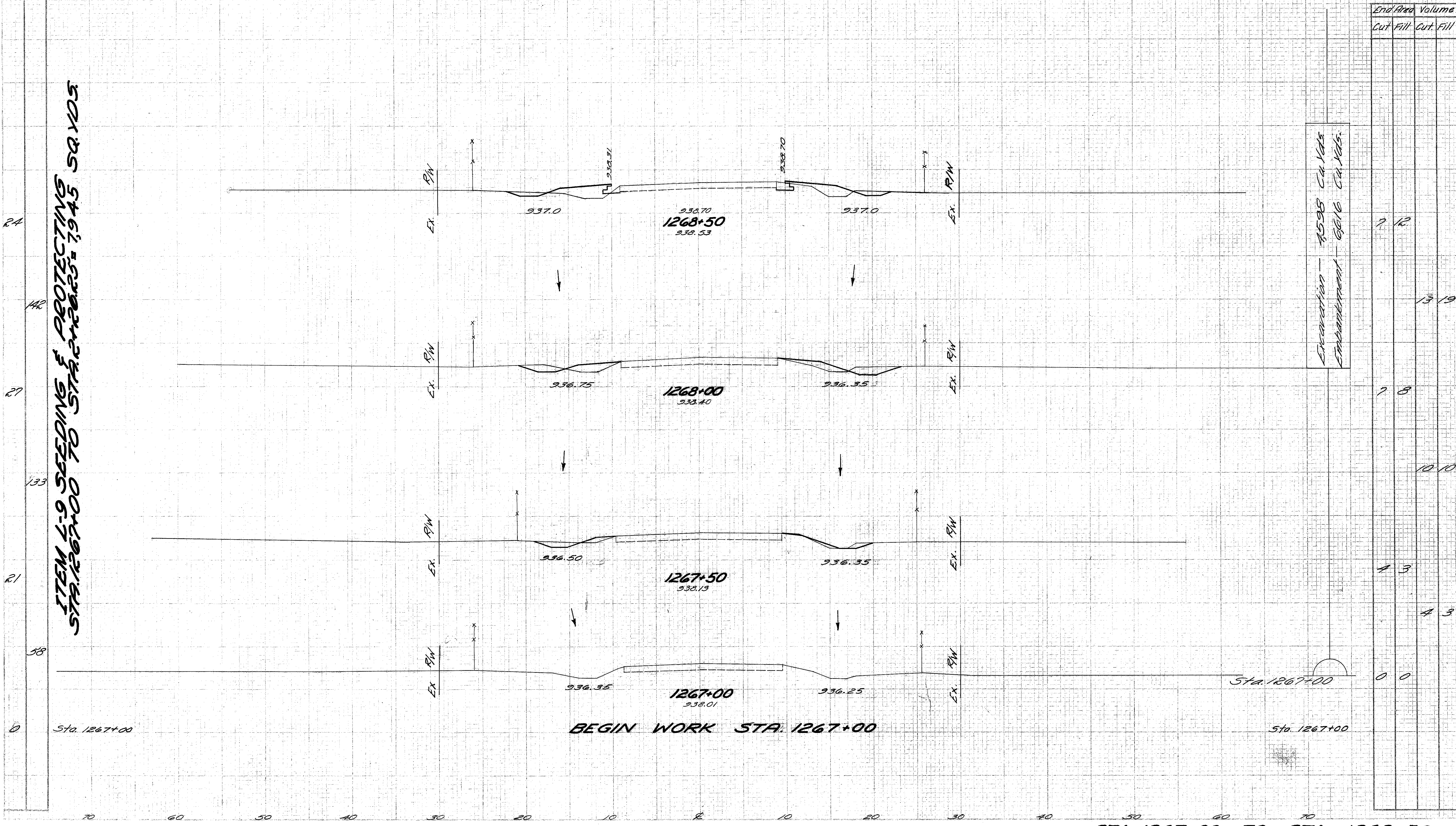
**STA. 5+00 TO STA. 18+00**



Seeding  
End 5g  
Width Yds.

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA - 247-2403  
HIG - 247-000

ITEM 4-9 SEEDING & PROTECTING  
STA. 1267+00 TO STA. 1268+50 7945 SQ. YDS.



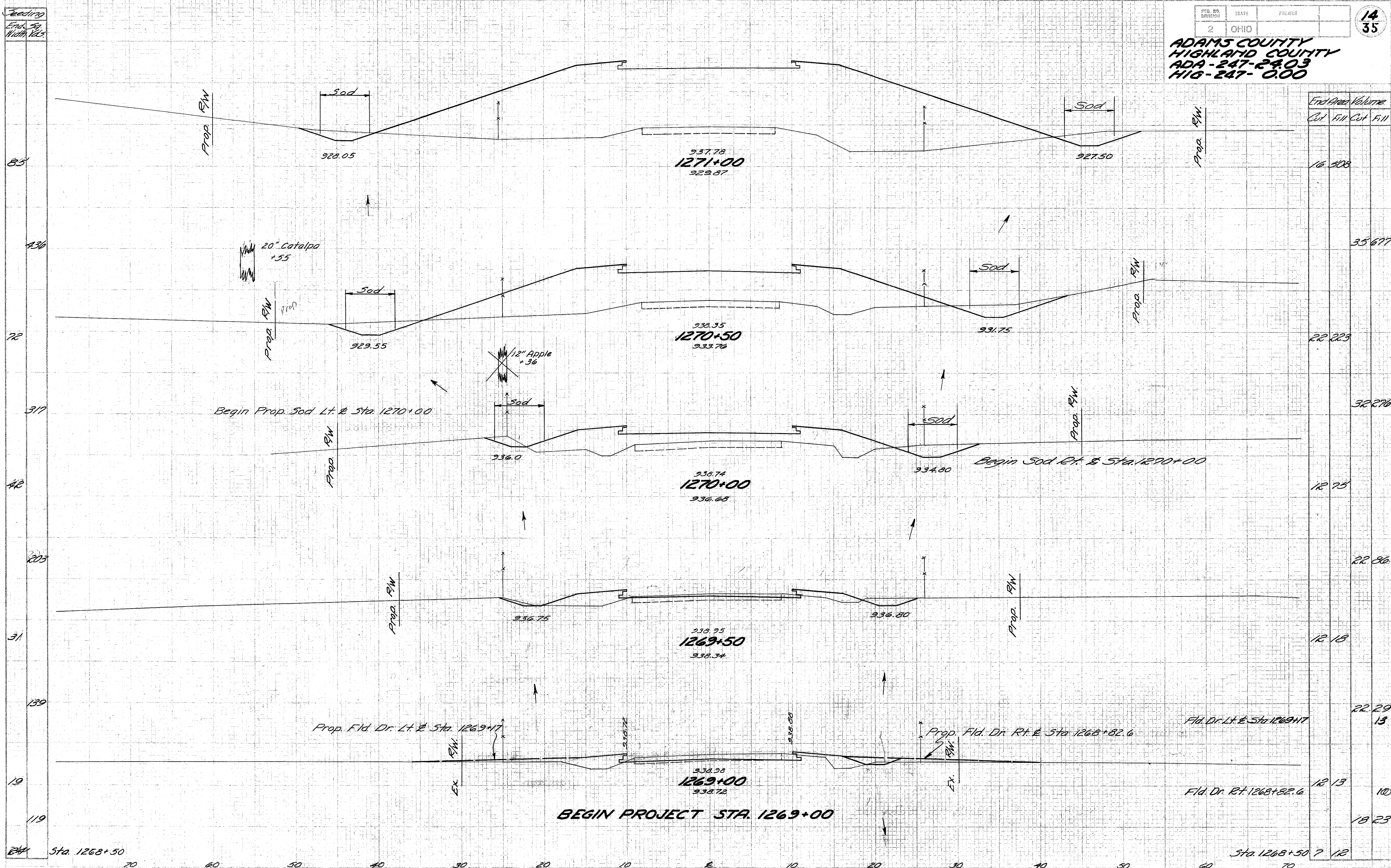
End Area		Volume	
Cut	Fill	Cut	Fill
7	12		
7	8		13
4	3		10
4	3		3
0	0		0

Excavation - 8595 Cu Yds  
Embankment - 6616 Cu Yds

BEGIN WORK STA. 1267+00

STA. 1267+00 TO STA. 1268+50

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-29.03  
HIG-247-0.00



Sta.	End Area Volume	
	Fill	Cut
1271+00	16	508
1270+50	22	223
1270+00	32	276
1270+00	12	75
1269+50	12	18
1269+00	22	29
1269+00	12	13
1268+50	7	18

BEGIN PROJECT STA. 1269+00

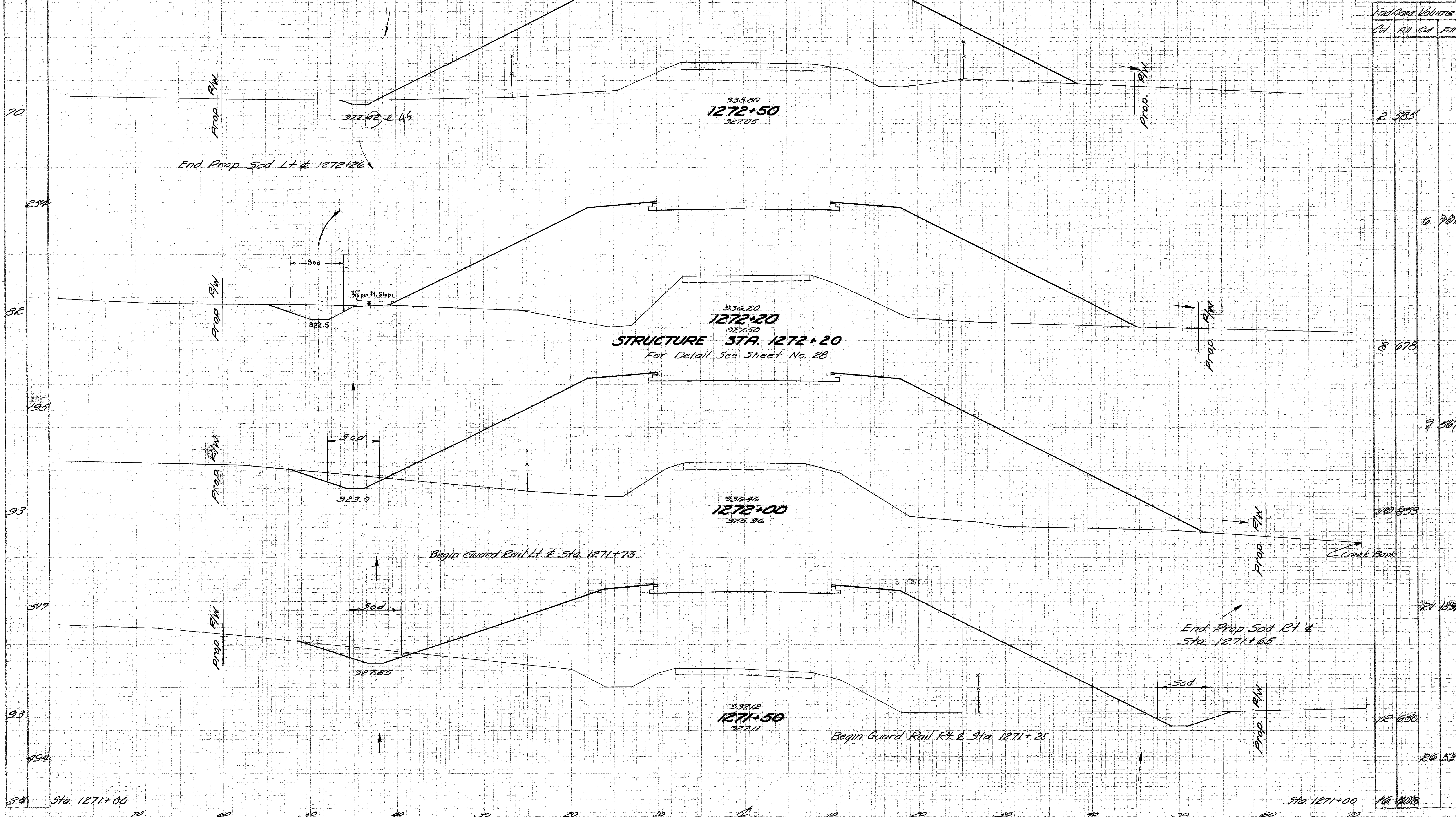
STA. 1269+00 TO STA. 1271+00

Seeding  
End Sp.  
Width Vels

FED. RD. DISTRICT	STATE	PROJECT
2	OHIO	

15  
35

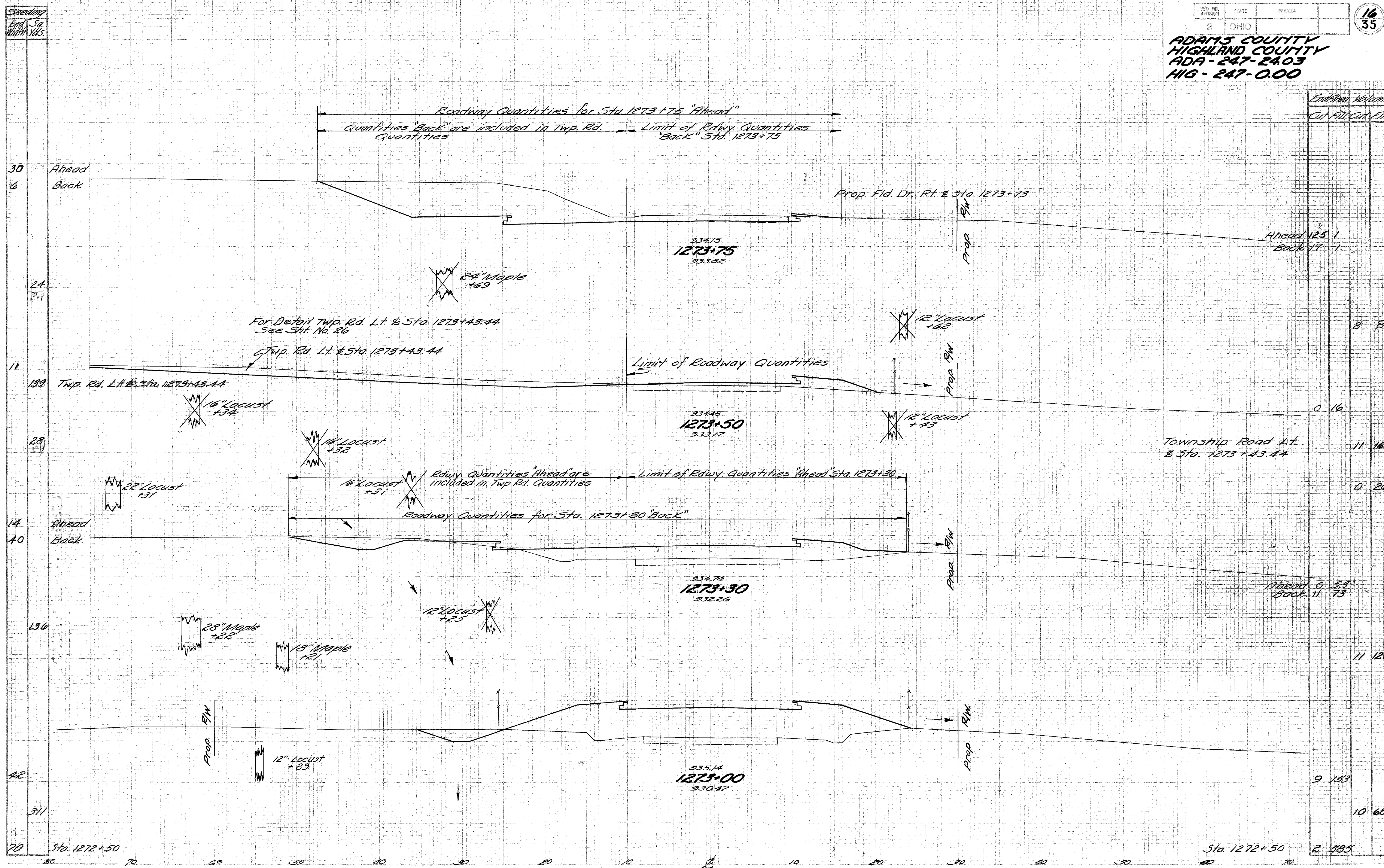
ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-24.03  
HIG-247-0.00



End Area Volume			
Cut	Fill	Cut	Fill

2	585		
6	781		
8	678		
7	567		
10	853		
21	1592		
12	630		
26	537		
16	306		

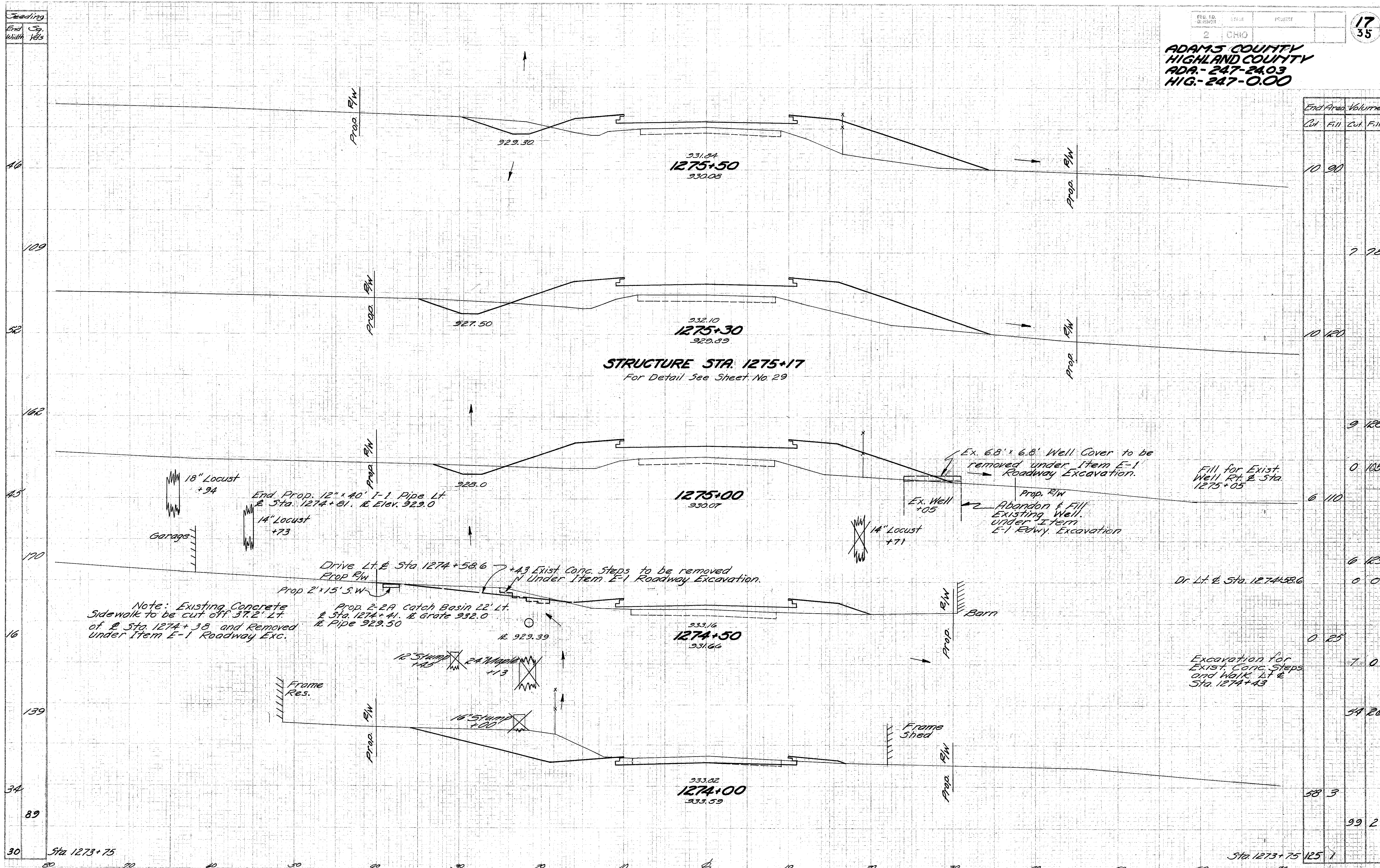
STA. 1271+50 TO STA. 1272+50



End Area Volume	
Cut	Fill
125	17
8	8
0	16
11	168
0	26
0	53
11	73
11	126
9	159
10	684
2	585

STA 1273+00 TO STA 1273+75





End Area		Volume	
Cut	Fill	Cut	Fill
10	90		
		7	78
10	160		
		9	128
		0	105
6	110		
		6	125
		0	0
		0	25
		7	0
		54	26
		58	3
		99	2
		125	1

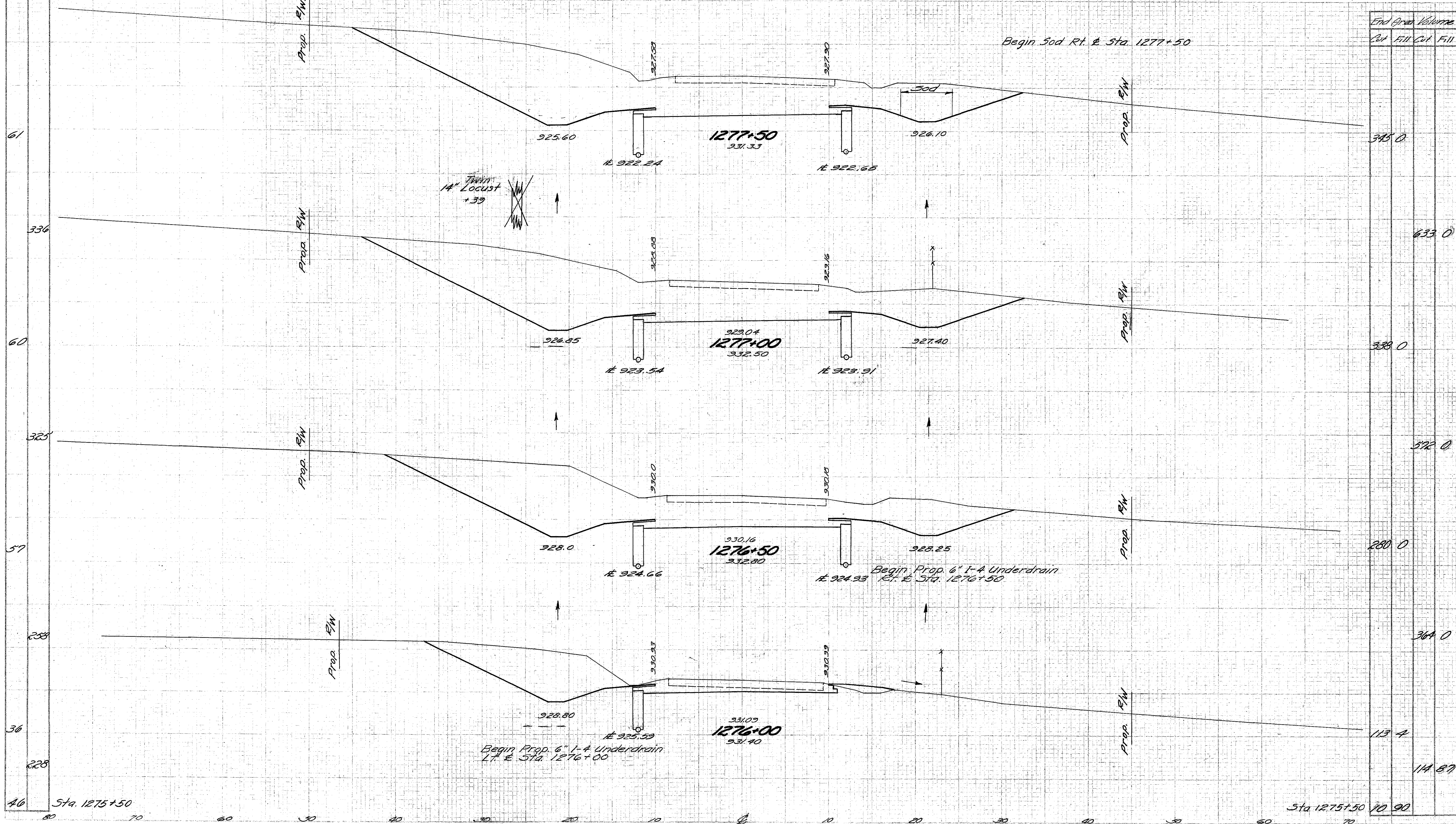
Reading  
 End Width  
 Sp. Vols  
 46  
 109  
 52  
 162  
 45  
 170  
 16  
 139  
 34  
 89  
 30  
 Sta 1273+75  
 80 110 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

Seeding  
Fwd. 3/4  
Width 1/2

FED. RD. DISTRICT	STATE	PROJECT
2	OHIO	

18  
35

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-2403  
HIG-247-0.00

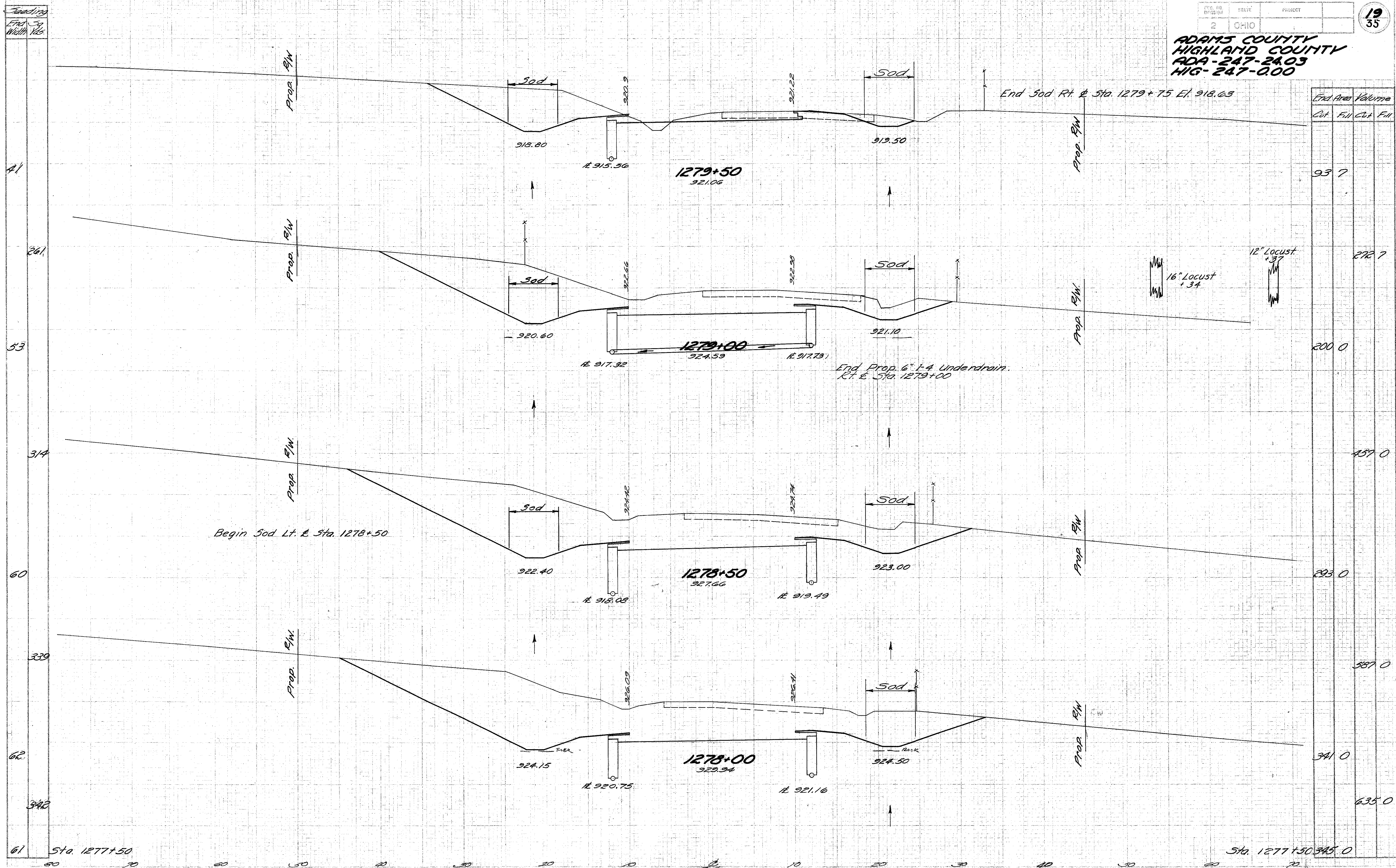


End Area Volume			
Cut	Fill	Cut	Fill

385	0	633	0
388	0	572	0
280	0	364	0
113	4	114	87

STA. 1276+00 TO STA. 1277+50

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-24.03  
HIG-247-0.00

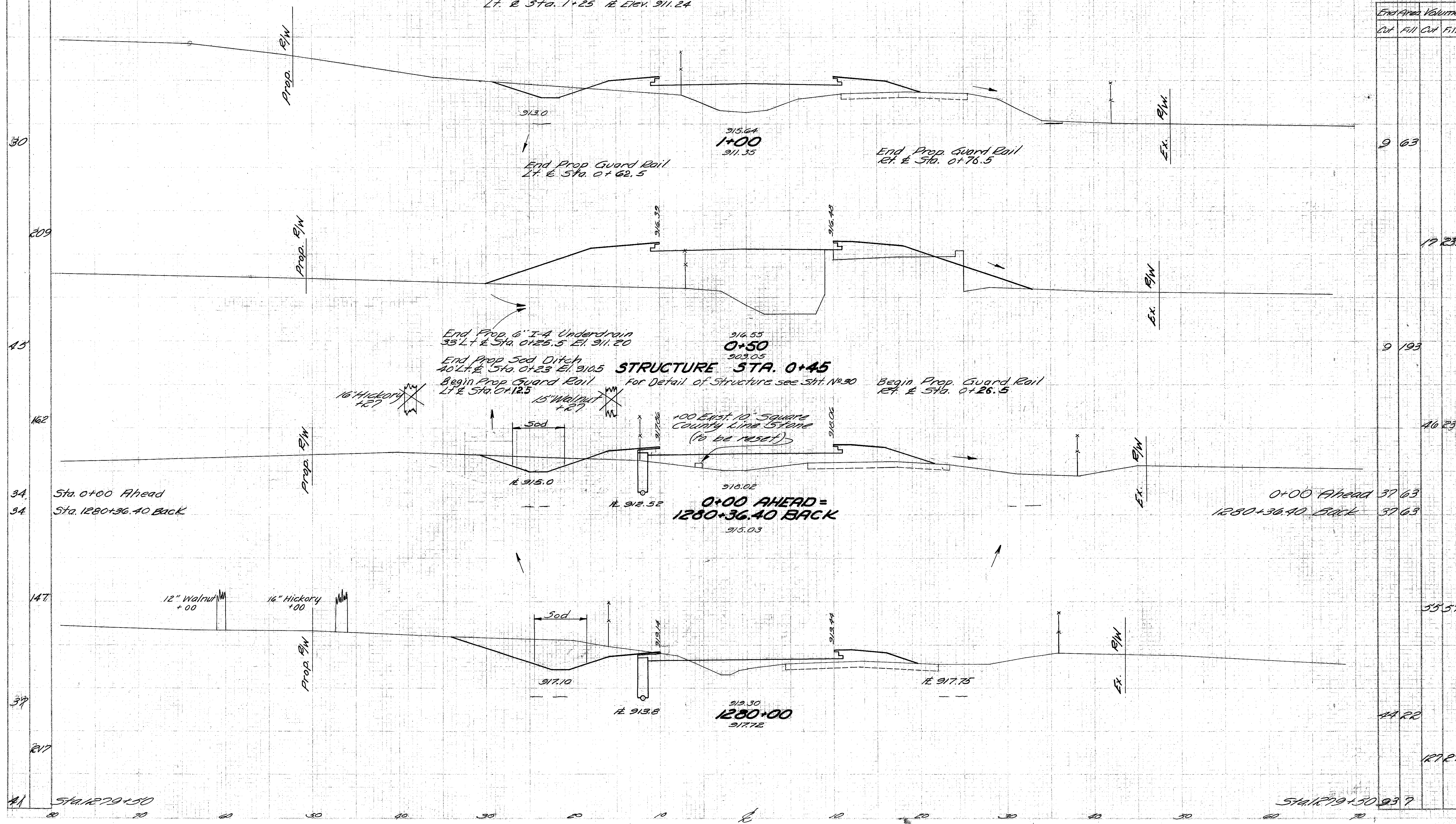


End Area	Volume	
	Cut	Fill
937		
2727		
2000		
4590		
2930		
5870		
3410		
6350		

STA. 1278+00 TO STA. 1279+00

Feeding  
End Sta  
Width Vals

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-24.03  
HIG-247-0.00



End Area Volume			
Cut	Fill	Cut	Fill
		9	63
		9	193
		46	239
		55	57
		44	22
		12	27

Begin Prop. 6" I-4 Underdrain  
Lt. & Sta. 1+25 El. 911.24

913.0

915.64  
1+00  
911.35

End Prop. Guard Rail  
Lt. & Sta. 0+62.5

End Prop. Guard Rail  
Lt. & Sta. 0+76.5

Prop. R/W

Prop. R/W  
Ex.

Prop. R/W

Prop. R/W  
Ex.

End Prop. 6" I-4 Underdrain  
33 Lt. & Sta. 0+25.5 El. 911.20

914.55  
0+50  
903.05

End Prop. Sod Ditch  
40 Lt. & Sta. 0+23 El. 910.5

STRUCTURE STA. 0+45

Begin Prop. Guard Rail  
Lt. & Sta. 0+12.5

For Detail of Structure see Sht. No. 90

Begin Prop. Guard Rail  
Lt. & Sta. 0+26.5

16" Hickory  
+27

Sod

15" Walnut  
+27

100 Exst. 10" Square  
County Line Stone  
(to be reset)

915.0

912.52

916.02  
0+00 AHEAD =  
1280+36.40 BACK  
915.03

Sta. 0+00 Ahead  
Sta. 1280+36.40 Back

0+00 Ahead 37.63  
1280+36.40 Back 37.63

12" Walnut  
+00

16" Hickory  
+00

Sod

919.14

919.30  
1280+00  
917.72

917.75

Prop. R/W

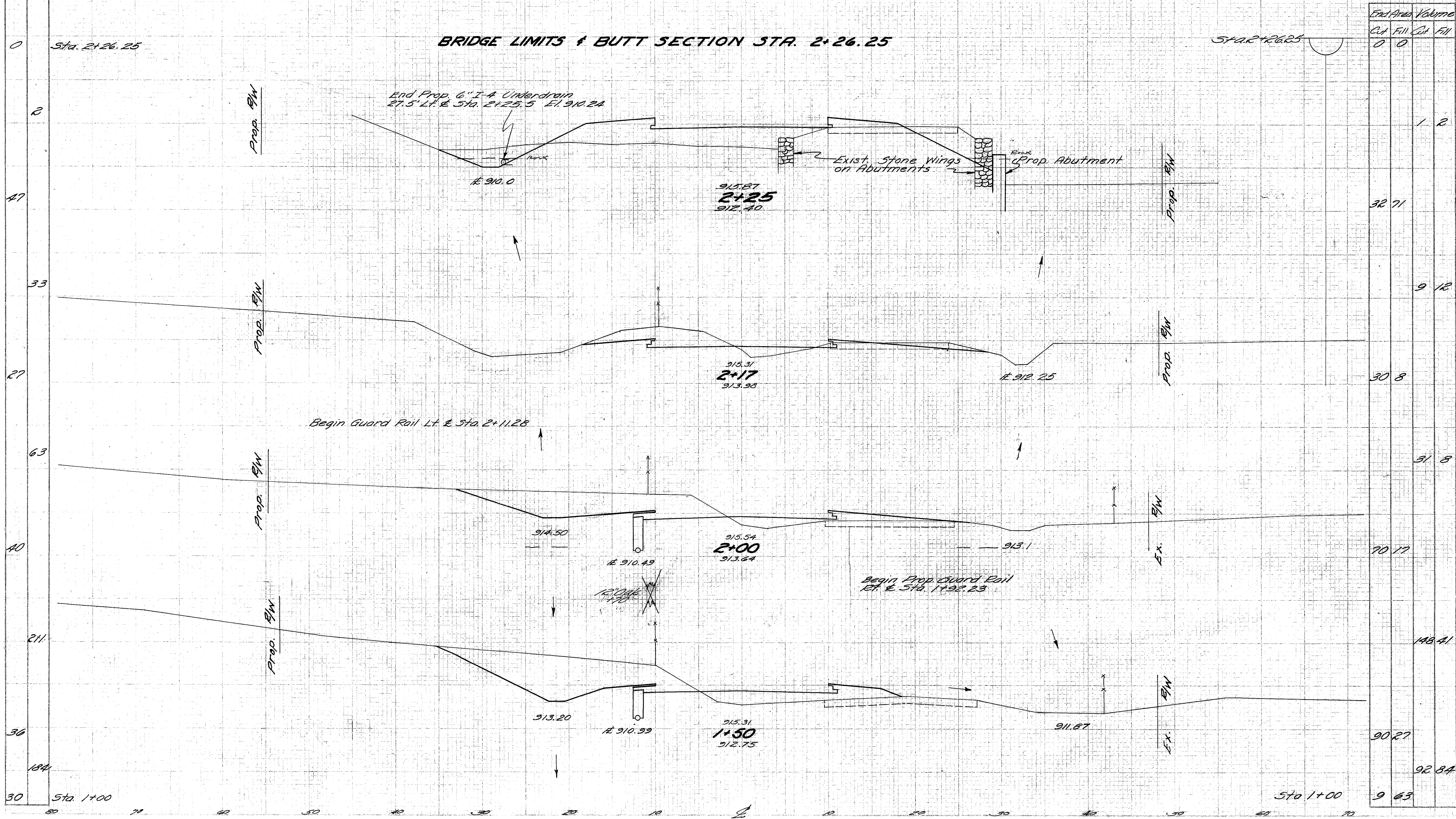
Prop. R/W  
Ex.

Sta. 1279+50

Sta. 1279+50 93.9

STA. 1280+00 TO STA. 1+00

Feet  
Mile

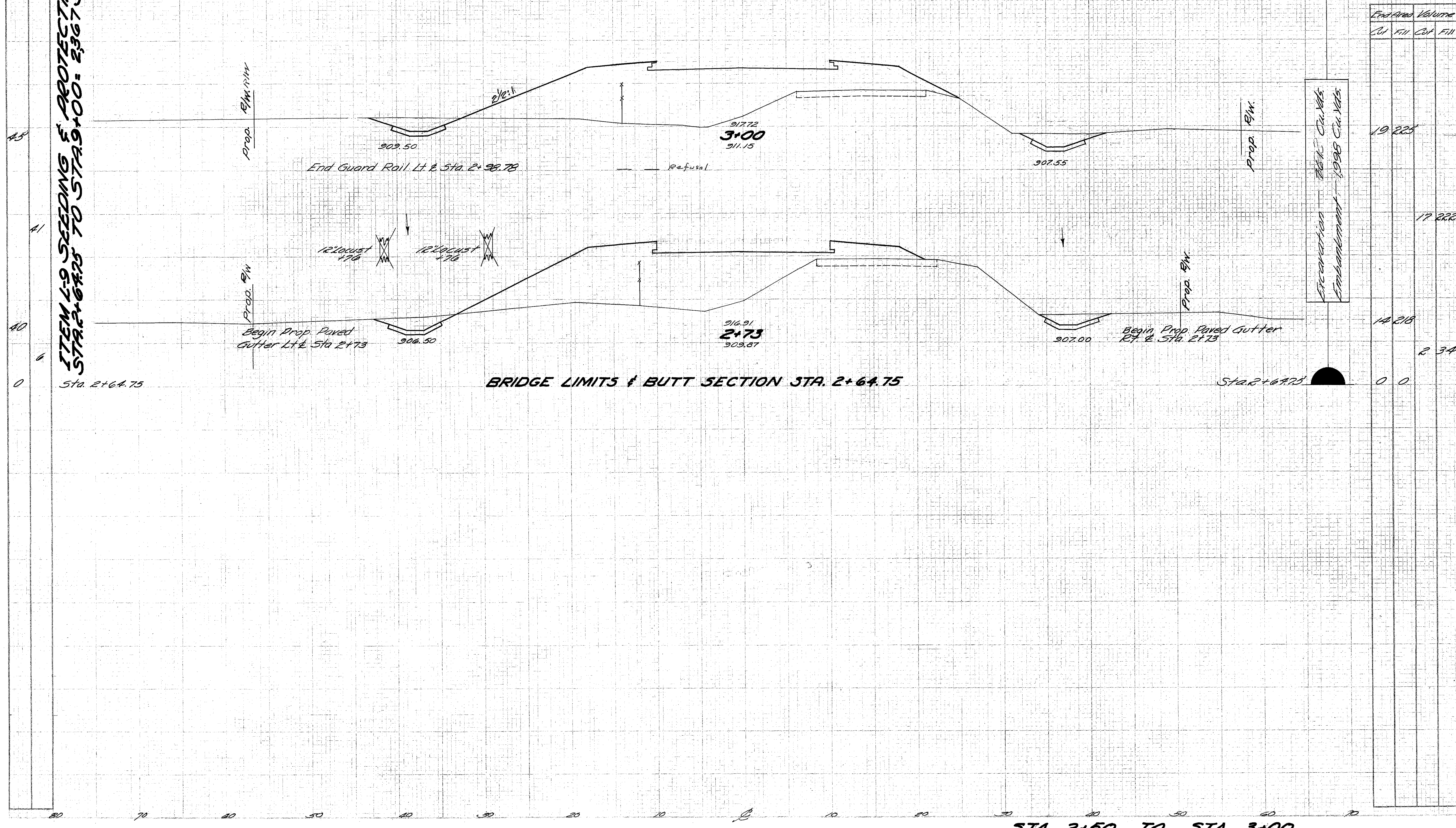


End Area		Volume	
Cut	Fill	Cut	Fill
0	0		
		1	2
32	71		
		9	12
30	8		
		51	8
70	17		
		148	41
90	27		
		92	84
9	63		

STA. 1+50 TO STA. 2+28

Reading  
End Sta.  
Width Kts

ITEM 1-9 SEEDING & PROTECTING  
STA. 2+64.75 TO STA. 9+00 = 2367 SQ. YDS.



End Area		Volume	
Cut	Fill	Cut	Fill

		19	225
		17	222
		14	218
		2	34
		0	0

Excavation 16.1 Cu. Yds.  
Embankment 19.98 Cu. Yds.

STA. 2+50 TO STA. 3+00

Std. No. 2-2A Catch Basin  
27.5' Lt. @ Sta. 5+30 @ Grate 927.00. @ Basin 924.25

Begin Prop. 18"x86" I-3 Pipe Lt. @ Sta. 5+30

End Prop. 18"x56" I-1 Pipe Lt. @ Sta. 5+20

Frame Chicken House  
120' Lt. @ Sta. 5+00

Prop. Fla. Dr. Lt. @ Sta. 5+07.7

End Sod Rt. @ Sta. 5+00

Dr. Lt. @ Sta. 5+07.7

End Paved Gutter Lt. @ Sta. 4+75

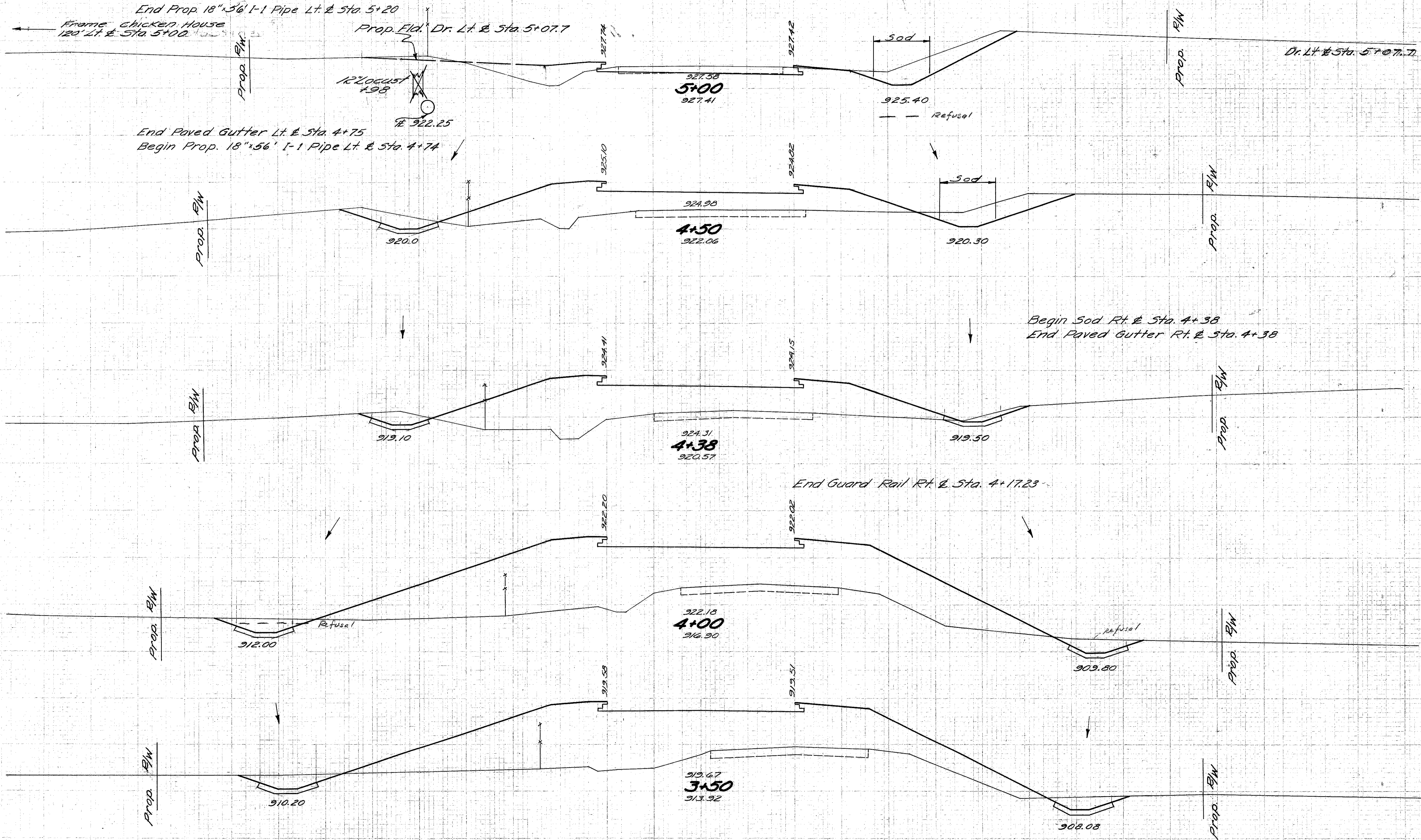
Begin Prop. 18"x56" I-1 Pipe Lt. @ Sta. 4+74

Begin Sod Rt. @ Sta. 4+38

End Paved Gutter Rt. @ Sta. 4+38

End Guard Rail Rt. @ Sta. 4+17.23

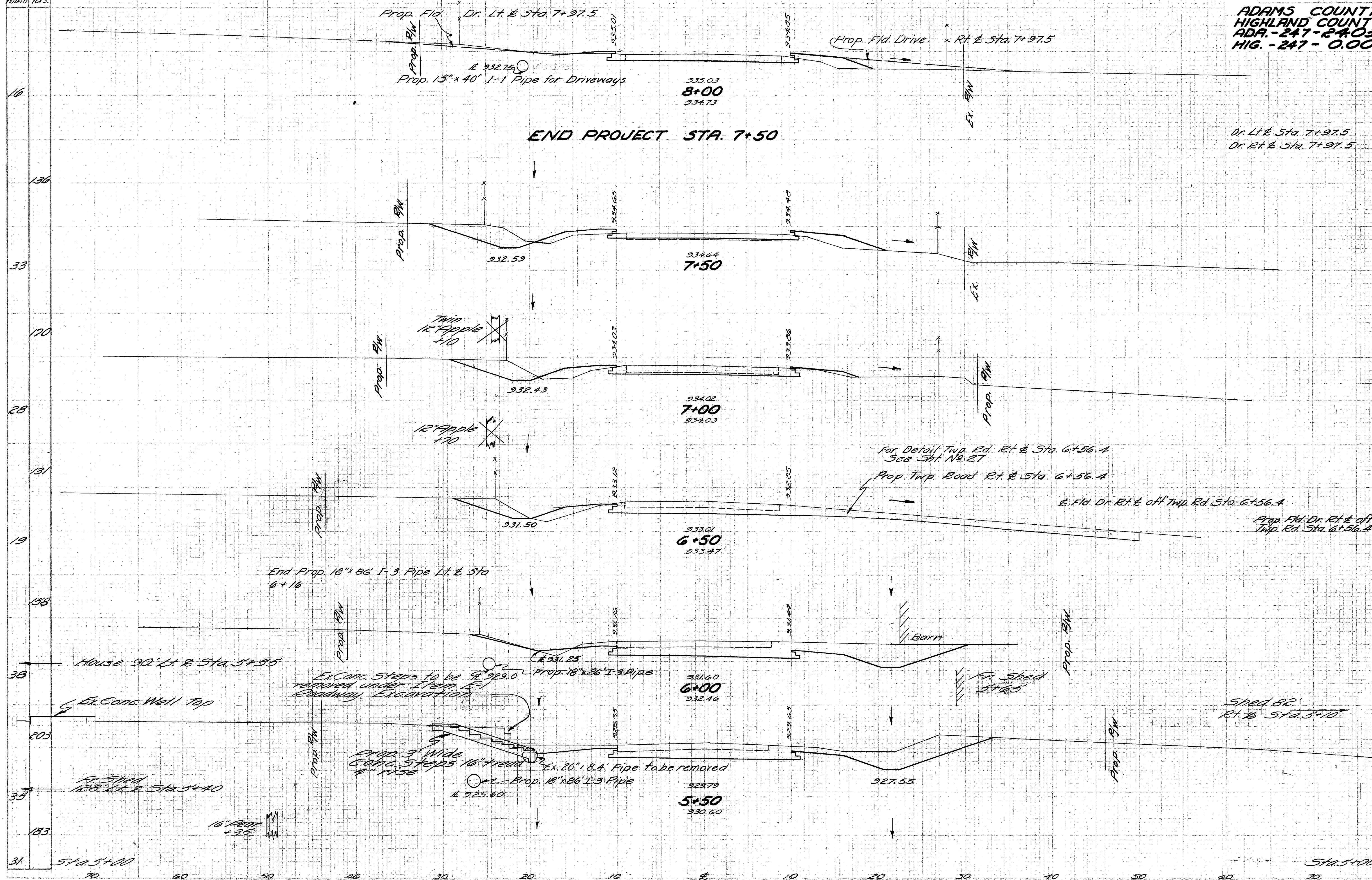
31  
320  
48  
160  
41  
239  
72  
386  
67  
311  
45



End Area		Volume	
Cut	Fill	Cut	Fill
38	19		8
30	15	63	124
9	65		
9	175		
19	362		
18	350		
32	602		
16	300		
33	486		
19	225		

Seeding  
Erod. Sq.  
Width Yds.

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-2403  
HIG.-247-0.00



End Area		Volume	
Cut	Fill	Cut	Fill
15	8		
		2	8
		39	21
27	14		
		55	20
32	7		
		89	11
63	5		
		124	7
71	2		
		133	2
72	0		
		102	18
38	19		

STA. 5+50 TO STA. 8+00



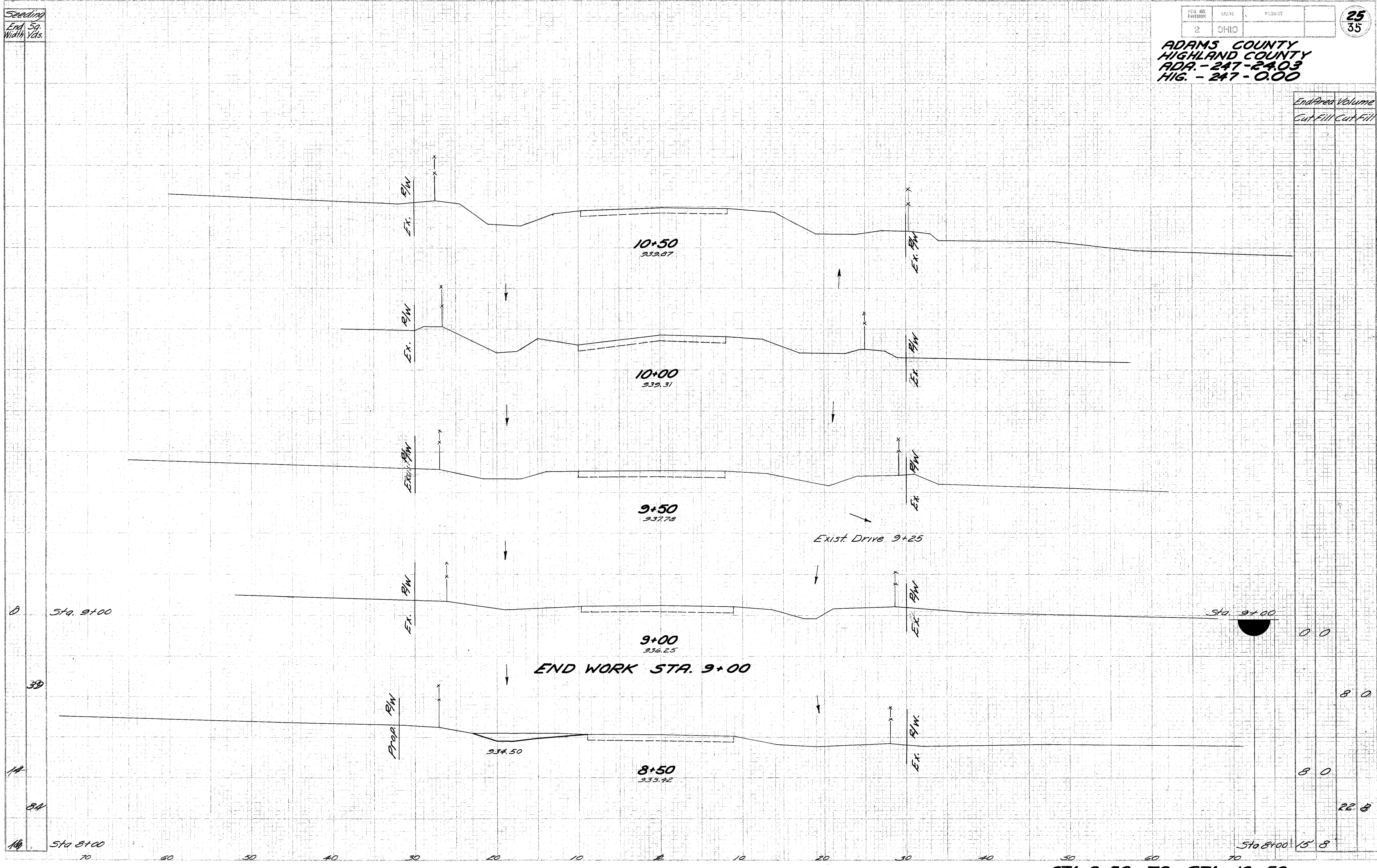
Seeding  
End Sq.  
Width Yds.

PG. NO.	STATE	PROJECT
2	OHIO	

25  
35

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA - 247-2403  
HIG. - 247-000

End Area Volume  
Cut Fill Cut Fill



STA. 8+50 TO STA. 10+50

Sta. 9+00  
Sta. 8+00

Sta. 9+00  
Sta. 8+00

0	0	0	0
39		8	0
14		8	0
34			22.8
16	70	60	50
	40	30	20
	10	0	10
	20	30	40
	50	60	70
	15	8	

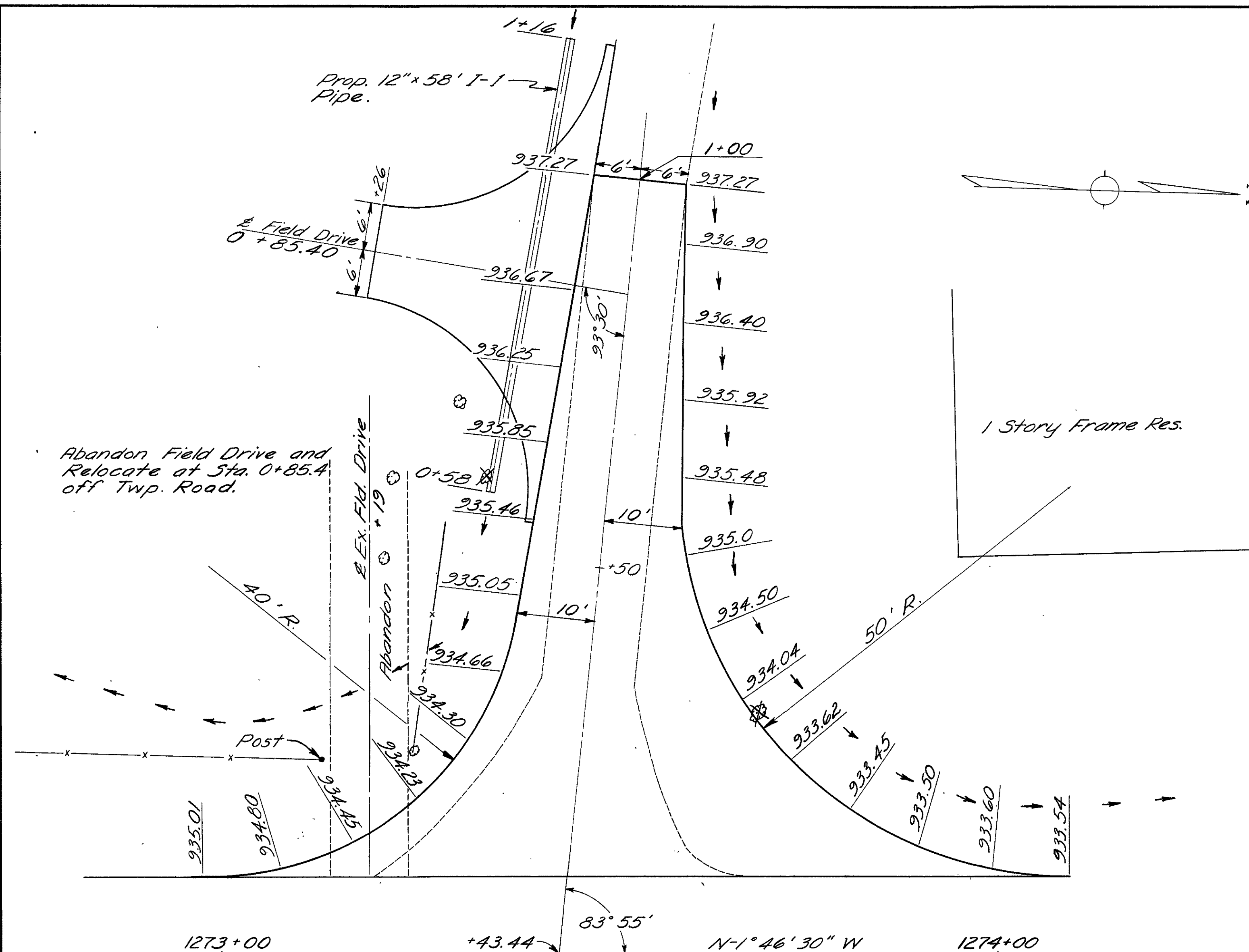
**ADAMS COUNTY  
HIGHLAND COUNTY  
ADA. 247-24.03  
HIG. 247-0.00**

**ESTIMATED QUANTITIES**

Item T-35	1 1/4" Asphaltic Concrete Surface Course	278.17 Sq. Yds.
Item B-35	2" Asphaltic Concrete Leveling Course	278.17 " "
Item B-119	5" Crushed Aggregate Base Course	279.50 " "
Item I-22	4" Sub-base	280.83 " "
Item T-30	Prime Coat.	279.50 " "

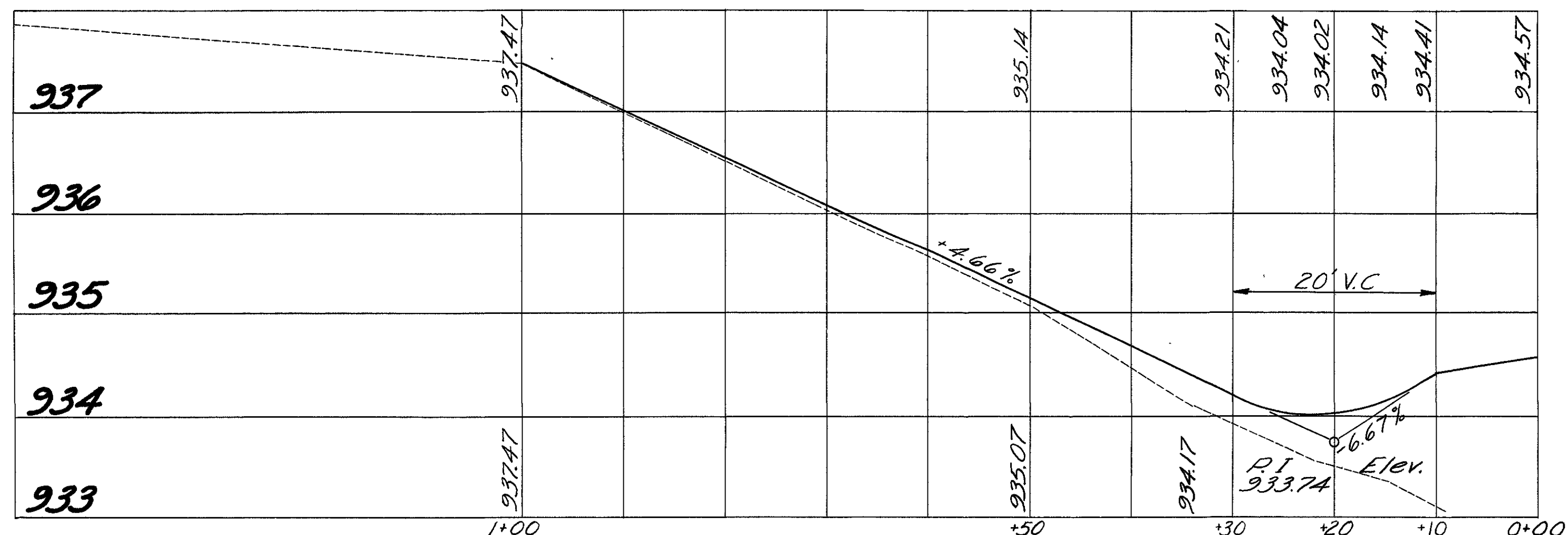
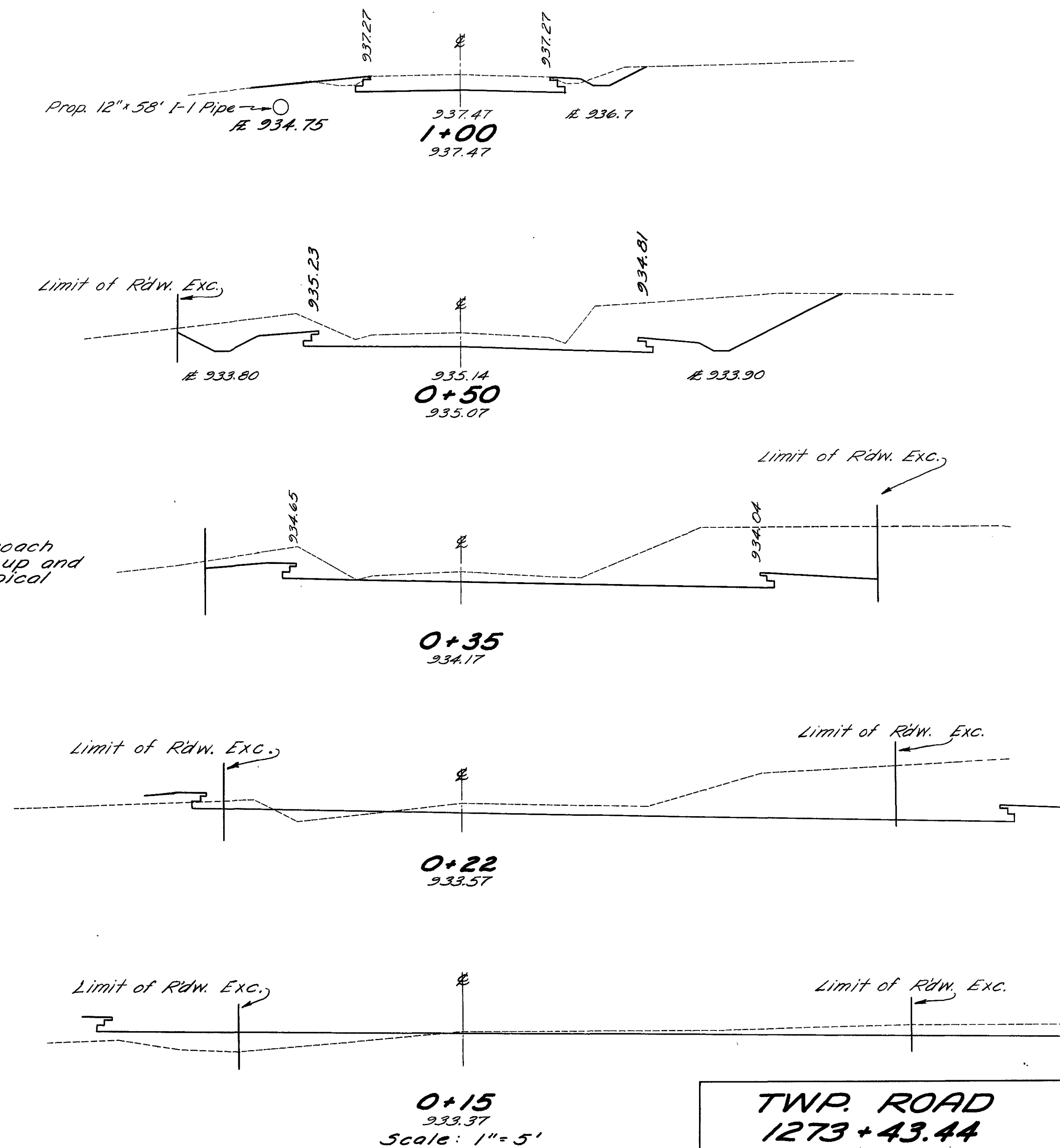
Quantities carried to Pav't. Calculation Box See Sht. No. 5

Note: Roadway Quantities and Seeding are shown on Sht. No. 16.  
For Field Dr. Quantities see Drive Box on Sht. No. 6



**PLAN**  
Scale 1" = 10'

Note: Typical Section of The approach shall have the same build-up and edge course design as Typical Section "A" on Sheet No. 2

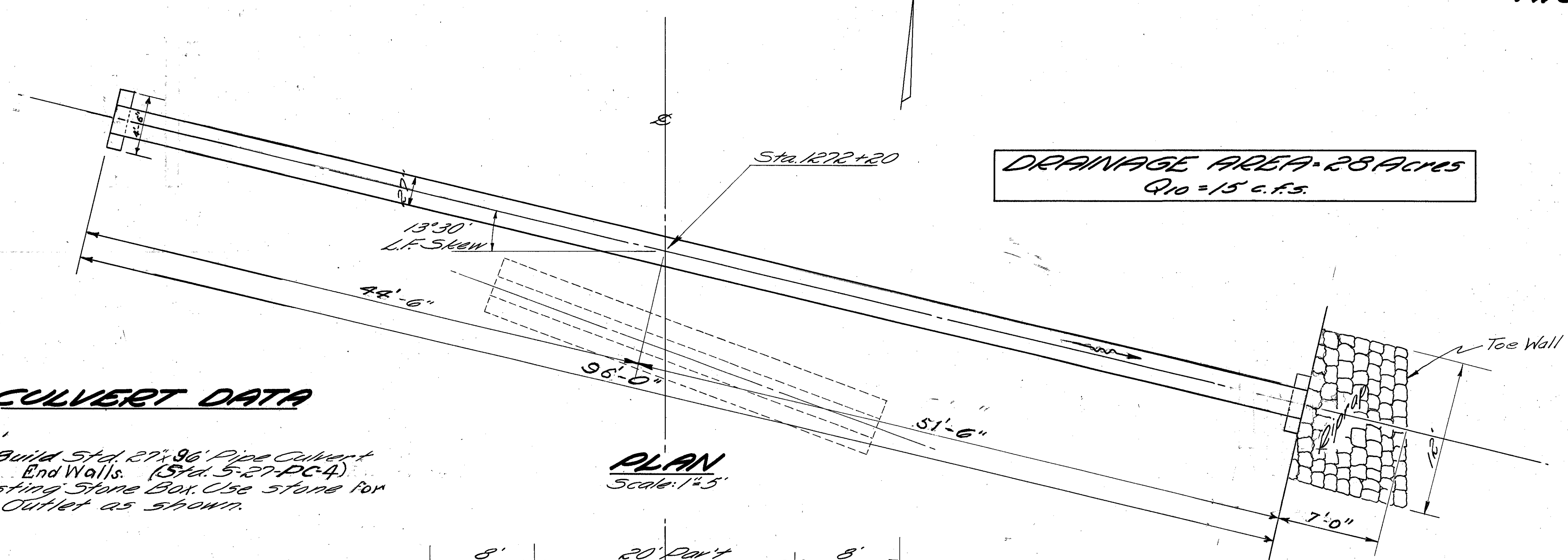


**PROFILE**  
Scale: Horiz. 1" = 10'  
Vert. 1" = 1'

**TWP. ROAD  
1273+43.44**



ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-2403  
FIG. 247-0.00

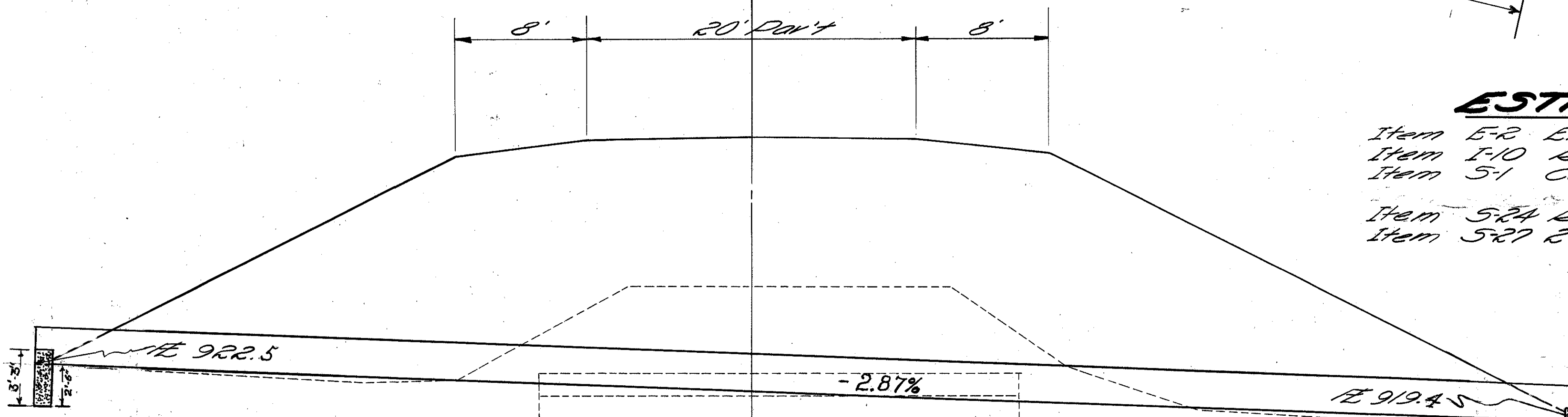


DRAINAGE AREA - 28 ACRES  
Q<sub>10</sub> = 15 c.f.s.

**CULVERT DATA**

Type: Pipe  
Size: 27" x 96'  
Work Req'd: Build Std. 27" x 96' Pipe Culvert with Concrete End Walls. (Std. 5-27-PCA)  
Remove Existing Stone Box. Use Stone for Riprap at Outlet as shown.

**PLAN**  
Scale: 1" = 5'



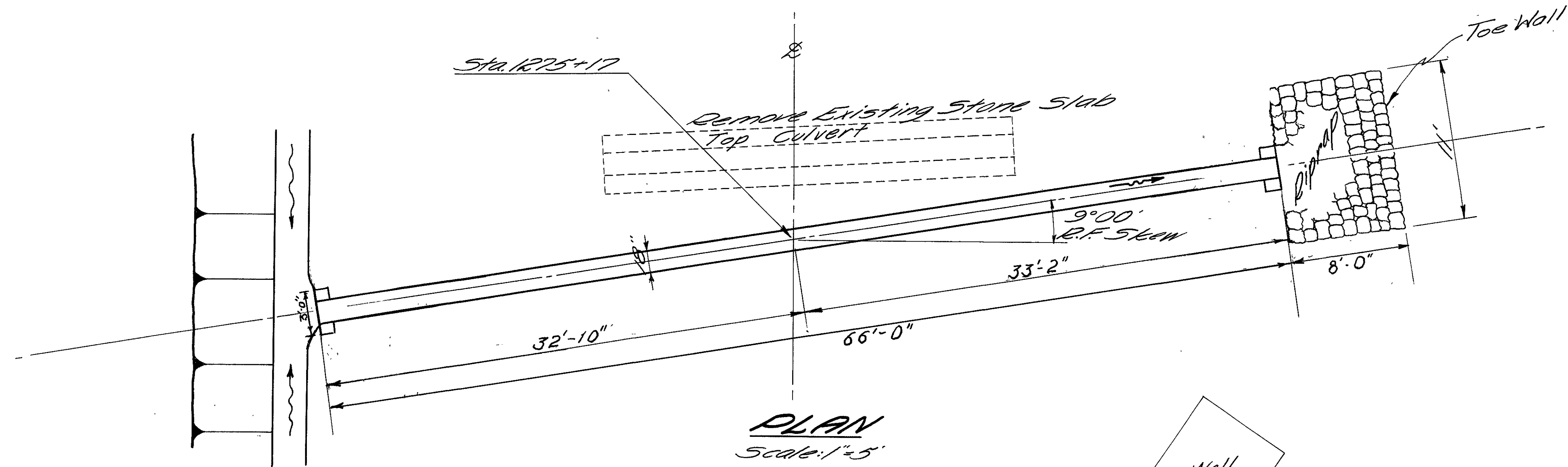
**SECTION**  
Scale: 1" = 5'

**ESTIMATED QUANTITIES**

Item E-2 Excavation for Structure	32	CY
Item I-10 Riprap - Type "A"	9	S.Y.
Item S-1 Concrete for Structure Class "E"	0.94	C.Y.
Item S-24 Removal of Existing Structure	Lump	
Item S-27 27" Pipe for Roadway Culvert	96	L.F.

Note: Riprap Toe Wall shall be included for payment in unit price bid per S.Y. under Item I-10 Riprap.

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-2403  
HIG-247-0.00



**PLAN**  
Scale: 1"=5'

**CULVERT DATA**

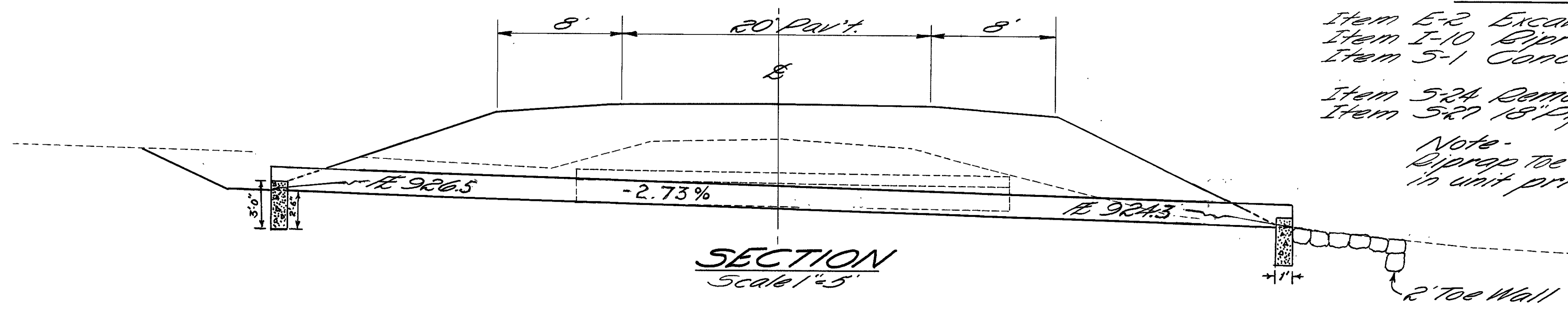
Type: Pipe  
Size: 18" x 66'  
Work Req'd: Build Std. 18" x 66" Pipe Culvert with Concrete End Walls (Std. Dwg. - S-27-PC-4)  
Remove Existing Structure. Place Riprap

**DRAINAGE AREA = 13 Acres**  
Q10 - 8 cfs

**ESTIMATED QUANTITIES**

Item E-2 Excavation for Structure	18	C.Y.
Item I-10 Riprap Type "A"	10	S.Y.
Item S-1 Concrete for Structure Class "E"	0.60	C.Y.
Item S-24 Removal of Existing Structure	Lump	
Item S-29 18" Pipe for Roadway Culvert	66	L.F.

Note:  
Riprap Toe Wall shall be included for payment in unit price bid per S.Y. under Item I-10 Riprap



**SECTION**  
Scale: 1"=5'

BR. NO ADA-247-2415

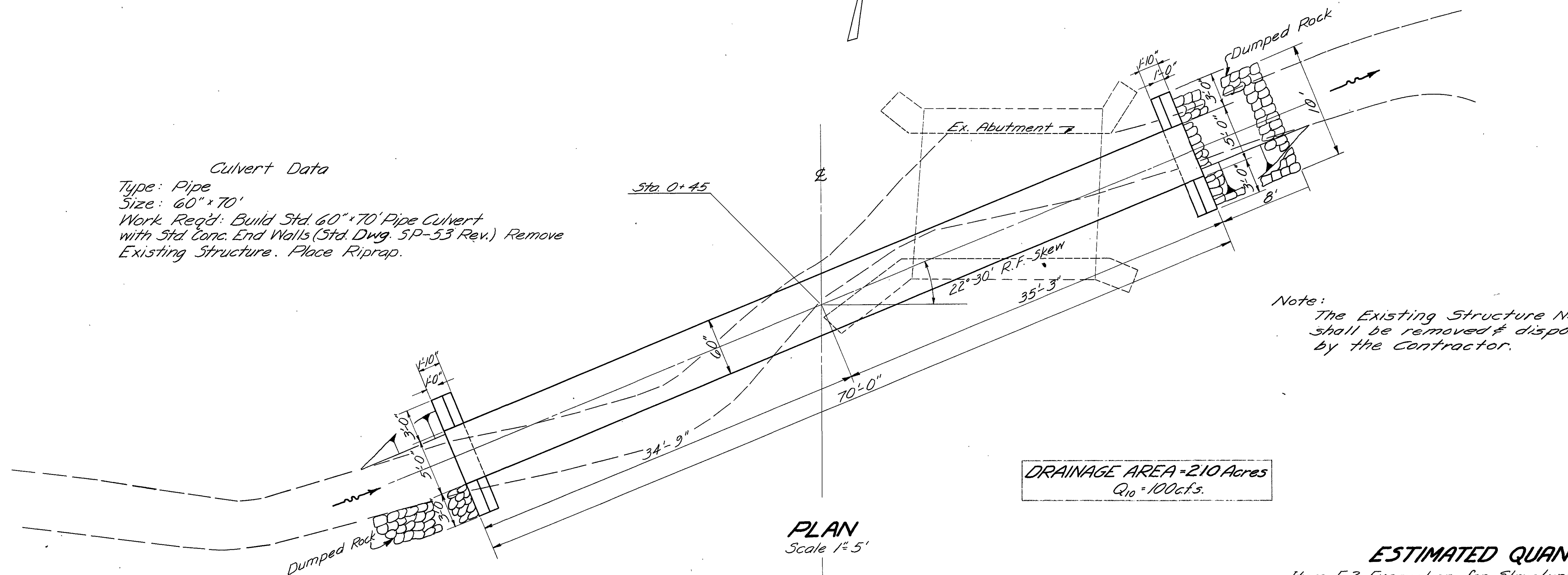
**PIPE CULVERT**  
STA. 1275+17

FED. NO. DIVISION	STATE	PROJECT
2	OHIO	

30  
35

ADAMS COUNTY  
HIGHLAND COUNTY  
ADA - 247-24.03  
HIG - 247-0.00

**Culvert Data**  
Type: Pipe  
Size: 60" x 70'  
Work Req'd: Build Std. 60" x 70' Pipe Culvert with Std. Conc. End Walls (Std. Dwg. SP-53 Rev.) Remove Existing Structure. Place Riprap.



Note: The Existing Structure No. HI-247-00 shall be removed & disposed of by the Contractor.

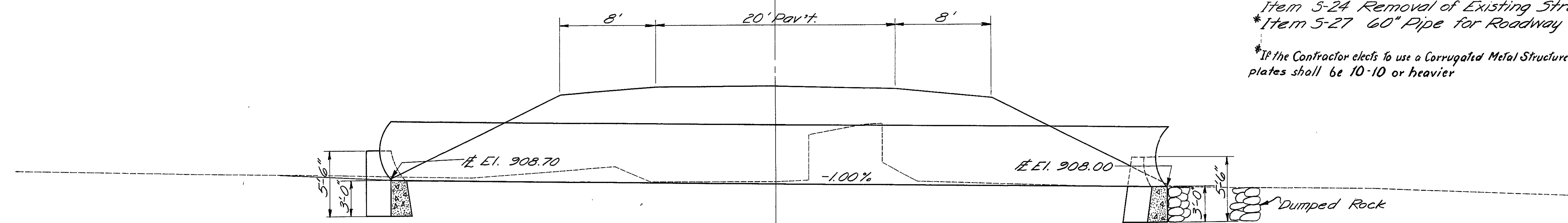
DRAINAGE AREA = 2.10 Acres  
Q<sub>10</sub> = 100 cfs.

PLAN  
Scale 1" = 5'

**ESTIMATED QUANTITIES**

Item E-2 Excavation for Structure	31 C.Y.
Item I-10 Dumped Rock	16 C.Y.
Item S-1 Concrete for Structure Class "E"	4.7 C.Y.
Item S-24 Removal of Existing Structure	Lump
*Item S-27 60" Pipe for Roadway Culvert	70-L.F.

\*If the Contractor elects to use a Corrugated Metal Structure, Sec. M-6.4 (g), the gage of the plates shall be 10-10 or heavier



SECTION  
Scale 1" = 5'

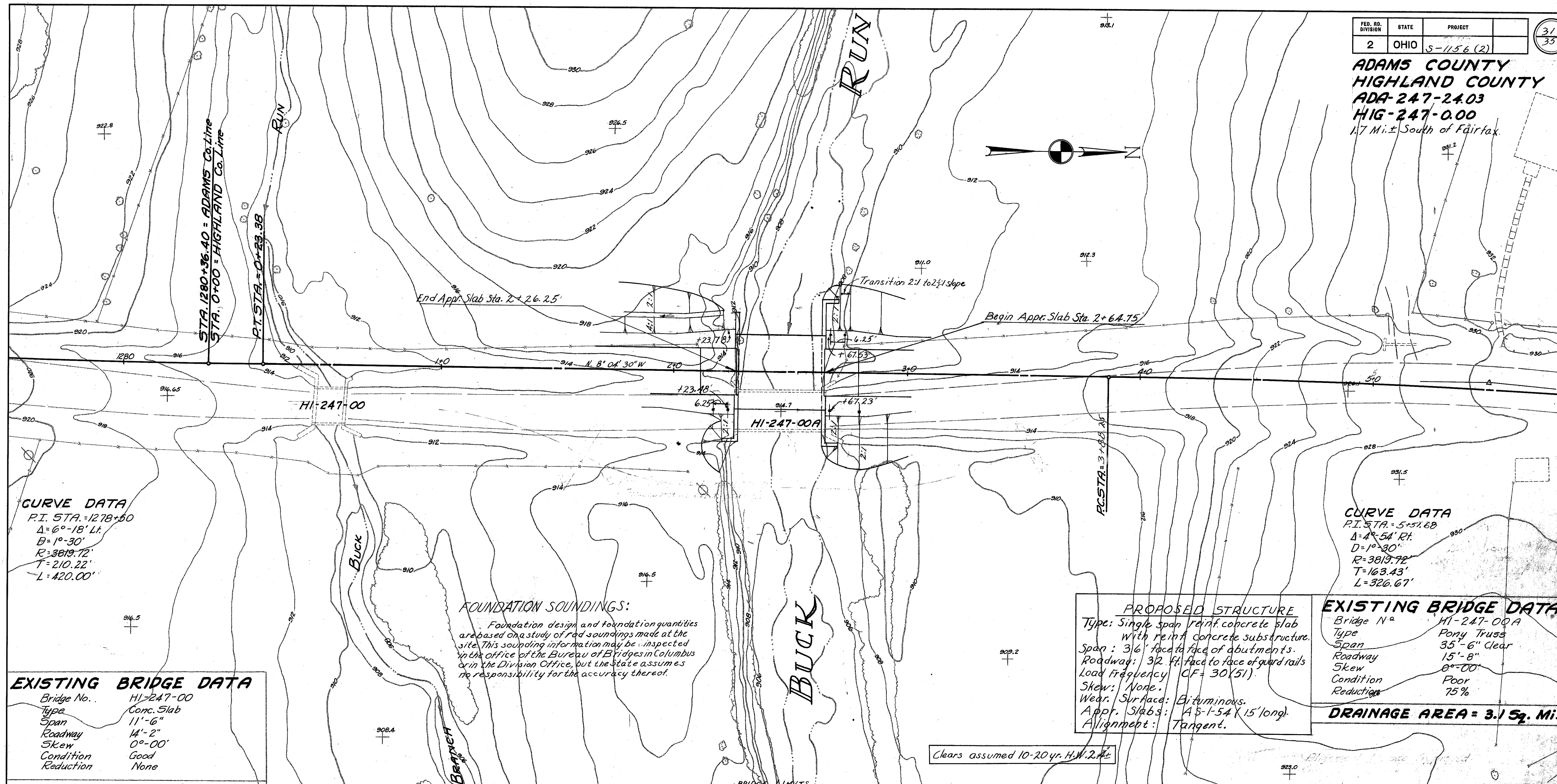
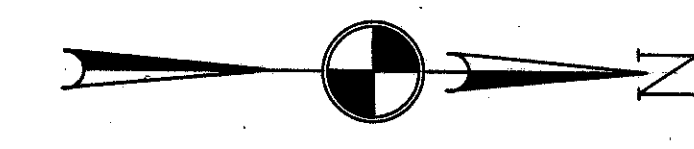
3

BR. No. HIG-247-0001  
PIPE CULVERT  
STA. 0+45

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	5-1156(2)

31  
35

**ADAMS COUNTY  
HIGHLAND COUNTY**  
ADA-247-24.03  
HIG-247-0.00  
1.7 Mi. ± South of Fairfax.



**CURVE DATA**  
P.I. STA. = 1278+50  
Δ = 6°-18' Lt.  
D = 1°-30'  
R = 3819.72'  
T = 210.22'  
L = 420.00'

**CURVE DATA**  
P.I. STA. = 5+57.68  
Δ = 4°-54' Rt.  
D = 1°-30'  
R = 3819.72'  
T = 163.43'  
L = 326.67'

**FOUNDATION SOUNDINGS:**  
Foundation design and foundation quantities are based on a study of rod soundings made at the site. This sounding information may be inspected in the Office of the Bureau of Bridges in Columbus or in the Division Office, but the State assumes no responsibility for the accuracy thereof.

**EXISTING BRIDGE DATA**

Bridge No.	HI-247-00
Type	Conc. Slab
Span	11'-6"
Roadway	14'-2"
Skew	0°-00'
Condition	Good
Reduction	None

**PROPOSED STRUCTURE**

Type: Single span reinf. concrete slab with reinf. concrete substructure.  
Span: 316' face to face of abutments.  
Roadway: 32' ft. face to face of guard rails.  
Load frequency (CF = 30(51)).  
Skew: None.  
Wear Surface: Bituminous.  
Appr. Slabs: 45'-1.54' (15' long).  
Alignment: Tangent.

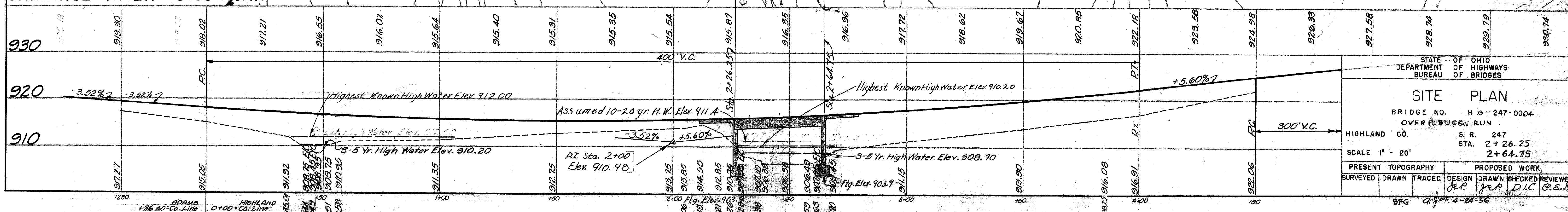
**EXISTING BRIDGE DATA**

Bridge No.	HI-247-00A
Type	Pony Truss
Span	35'-6" Clear
Roadway	15'-8"
Skew	0°-00'
Condition	Poor
Reduction	75%

**DRAINAGE AREA = 3.1 Sq. Mi.**

**DRAINAGE AREA = 0.33 Sq. Mi.**

Clears assumed 10-20 yr. H.W. 2 ft.



STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
BUREAU OF BRIDGES

**SITE PLAN**

BRIDGE NO. HIG-247-0004  
OVER BUCK RUN  
HIGHLAND CO. S. R. 247  
STA. 2+26.25  
SCALE 1" = 20'  
2+64.75

PRESENT TOPOGRAPHY	PROPOSED WORK
SURVEYED	DRAWN
DRAWN	TRACED
DESIGN	DRAWN
CHECKED	REVIEWED
PER	PER
D.L.C.	P.E.S.

BFG 4-24-56

**ADAMS COUNTY  
HIGHLAND COUNTY  
ADA-247-2403**

**GENERAL NOTES** *HIG-247-0.00*  
*17 Mi. S. of Fairfax*

**DESIGN SPECIFICATIONS:** This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 10-1-51, together with revisions thereof dated 7-15-52, 4-1-54 and 2-1-55.

**REMOVAL OF EXISTING STRUCTURE:** When no longer needed to maintain traffic the existing structure shall be removed. The removed materials shall become the property of the Contractor. The substructure shall be removed to whatever extent is necessary to avoid interference with new construction. Portions in the area of approach pavement and shoulders shall be removed to at least 3ft. below the top of such pavement and shoulders.

**GRAVEL,** if used as the coarse aggregate, shall be according to Sec. M-3.93 instead of M-3.91 for Class "C" concrete in the superstructure. Gravel meeting the requirements of Sec. M-3.93 also may be used for other concrete in this structure.

**FOOTINGS** shall extend a minimum of 3' into solid rock, or to the elevations shown, whichever is lower.

**RAILING:** The transition between the guard rail height on the bridge and on the approaches shall be made in a distance of 100 feet from each end of the bridge.

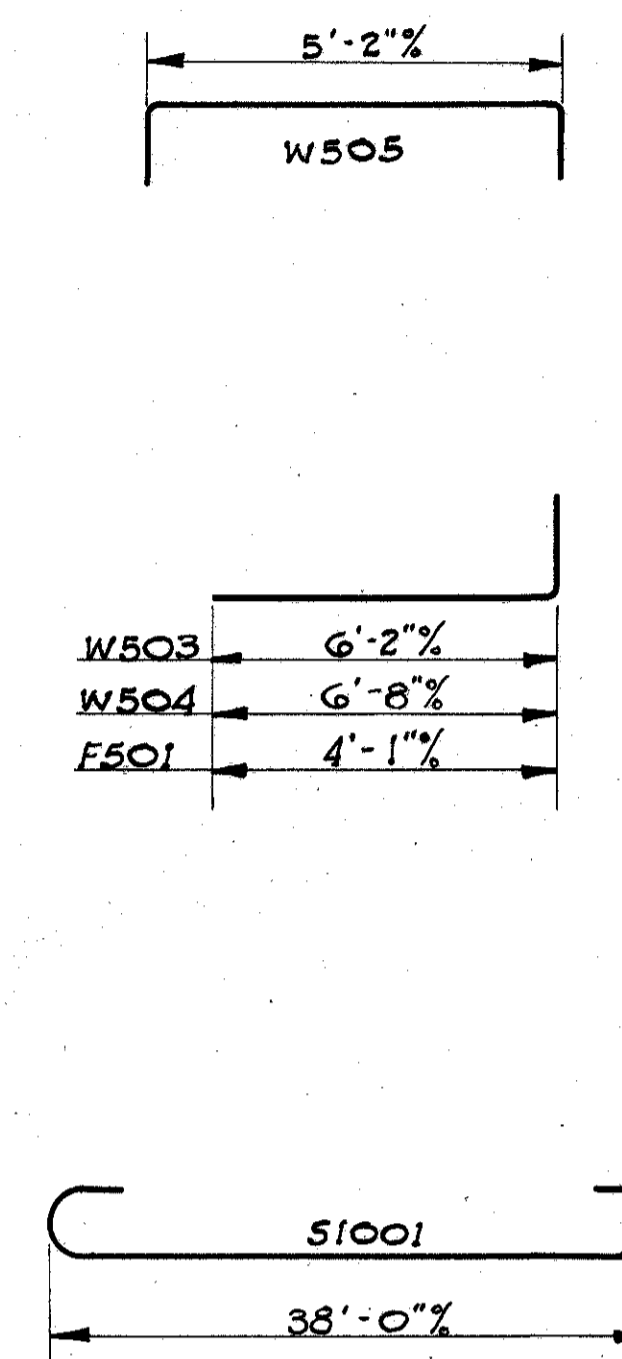
The guard rail shall be painted white in accordance with section I-15.07 of the Construction and Material Specifications. Painting, both shop and field, shall be applied by brush. Spray application will not be permitted.

The galvanized posts and anchor bolts shall not be painted. The tabulated railing quantity is for the length of railing within the bridge limits of slab. The price, per linear foot of railing includes payment for guard rail, posts, anchors, connections, galvanizing and painting.

**CONSTRUCTION JOINTS:** A longitudinal construction joint in the slab, preferably at or near the centerline of roadway, or a transverse construction joint at or near the middle of the span will be permitted. A vertical construction joint shall be placed in the abutment wall at the centerline of roadway.

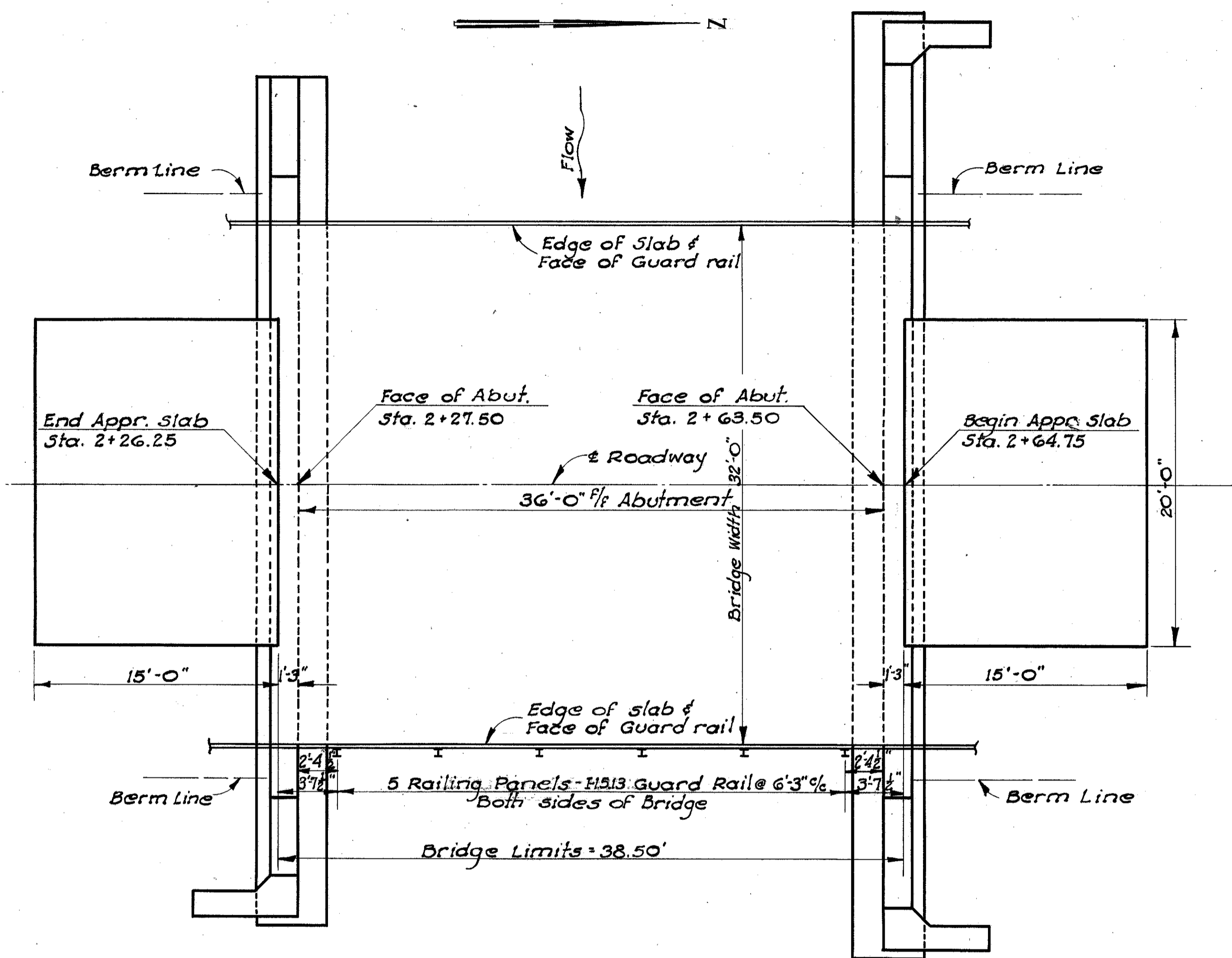
**GALVANIZING** of all members which are specified to be galvanized shall be as called for in Sec. M-7.4(d).

REINFORCING STEEL LIST						
MARK NO.	LENGTH	WEIGHT	SHR.	ABUTS.	BENDING DIAGRAM	
ABUTMENT				N.S.		
A501	13	8'-2"	111	S	11	2
A502	13	7'-9"	105	S	13	
A503	4	9'-9"	41	S	4	
A504	2	9'-3"	19	S	2	
A505	2	8'-3"	17	S	2	
A506	4	6'-8"	28	S	2	2
A507	2	6'-3"	13	S	2	
A508	6	31'-9"	199	S	6	
A509	8	29'-3"	244	S	8	
A510	4	24'-9"	103	S	2	2
A511	2	23'-4"	49	S	2	
A512	8	4'-0"	33	S	4	4
A513	11	7'-5"	65	S	11	
A514	13	7'-1"	96	S	13	
A515	4	8'-11"	37	S	4	
A516	2	28'-6"	59	S	2	
A517	2	6'-0"	12	S	2	
A518	6	27'-6"	172	S	6	
A519	8	26'-8"	222	S	8	
A520	2	22'-4"	47	S	2	
A521	2	24'-0"	50	S	2	
F501	82	4'-10"	413	B	44	38
W501	20	5'-10"	122	S	10	10
W502	10	5'-6"	57	S	10	
W503	9	6'-11"	65	B	9	
W504	18	7'-5"	139	B	18	
W505	18	6'-8"	125	B	12	6
SUPERSTRUCTURE						
S1001	64	40'-10"	11,245	B		
S601	84	31'-6"	3,974	S		
S501	11	38'-0"	436	S		
REPLACEMENT STEEL						
RE1001	1	7'-2"	31	S		
RE601	1	5'-11"	9	S		
RE501	1	5'-7"	6	S		

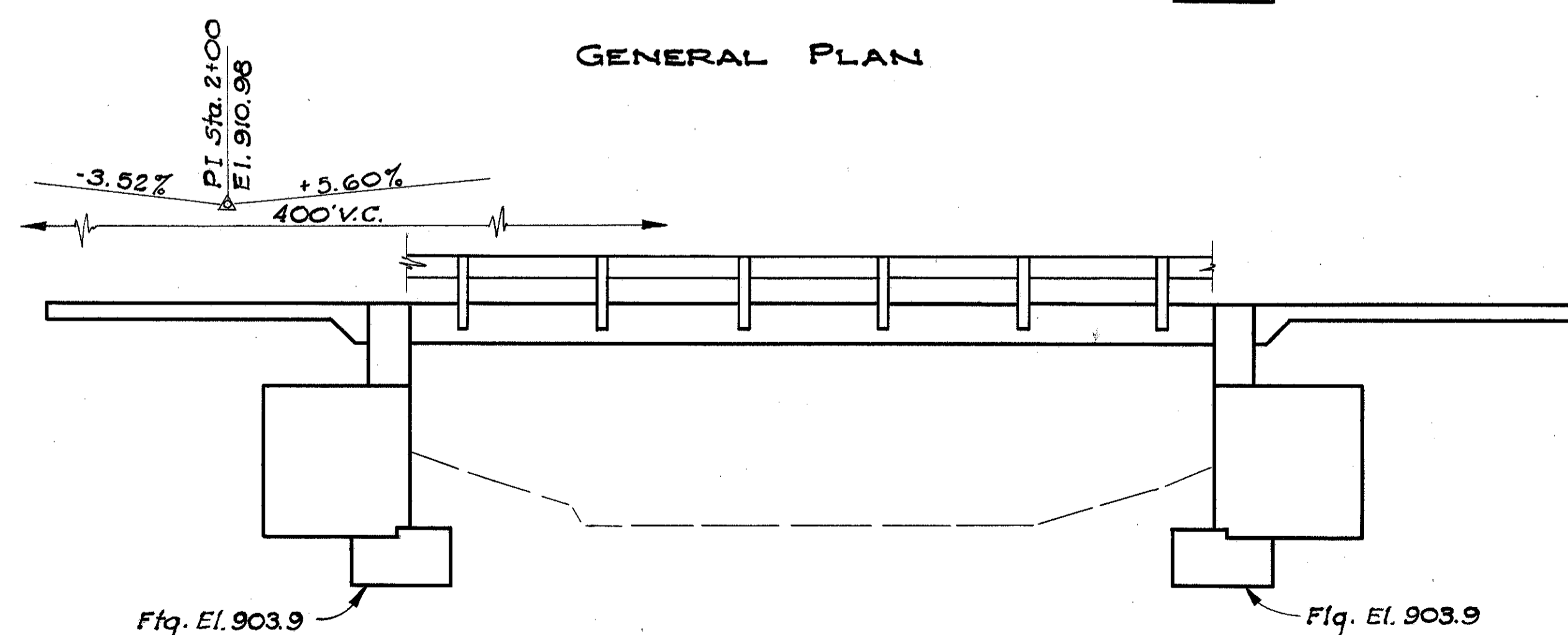


BAR SIZE is indicated in the bar mark. The first digit where three digits are used and the first two digits where four are used, indicate the bar size number. For example S601 is a No. 6 size bar and S1001 is a No. 10 size.

ESTIMATED QUANTITIES					
ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUTS. GENERAL
E-2	Lump Sum		Cofferdams, cribs and sheeting		Lump
E-2	84	Cu. Yd.	Unclassified excavation, including Rock		84
S-1	78	Cu. Yd.	Class "C" concrete, Superstructure	78	
S-1	64	Cu. Yd.	Class "E" concrete, Walls		64
S-1	42	Cu. Yd.	Class "E" concrete, Footings		42
S-3	152	Sq. Yd.	Type "C" waterproofing	152	
S-4	18,364	Lbs.	Reinforcing steel	15655	2663 46
S-9	12	Sq. Ft.	1/2" preformed expansion joint filler		12
S-14	77.0	Lin. Ft.	Railing (Type I-1513 with galvanized steel posts and bolts)	77.0	
S-24	Lump Sum		Removal of existing structure		Lump
S-29	55	Cu. Yd.	Porous backfill		55
T-35	9	Cu. Yd.	Asphaltic concrete surface course, Type "A or C" (85-100)	9	



GENERAL PLAN



ELEVATION

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
DIVISION OF DESIGN AND CONSTRUCTION  
BUREAU OF BRIDGES

**GENERAL PLAN AND ELEVATION,  
GENERAL NOTES, STEEL LIST AND  
ESTIMATED QUANTITIES**

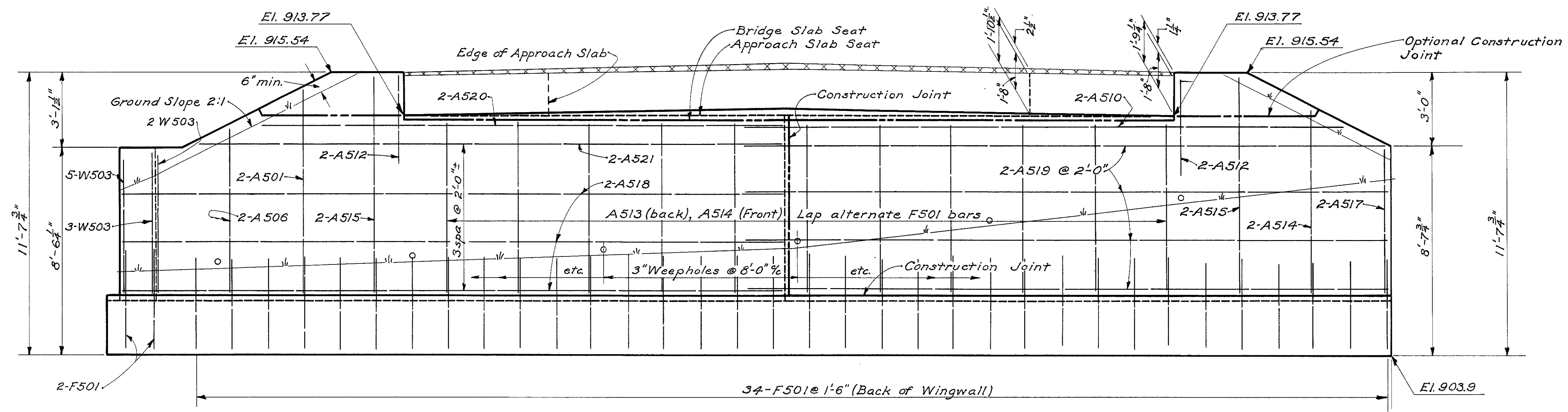
**BRIDGE No. HIG-247-0004  
OVER BUCK RUN**

HIGHLAND COUNTY STA. 2+26.25  
2+64.75

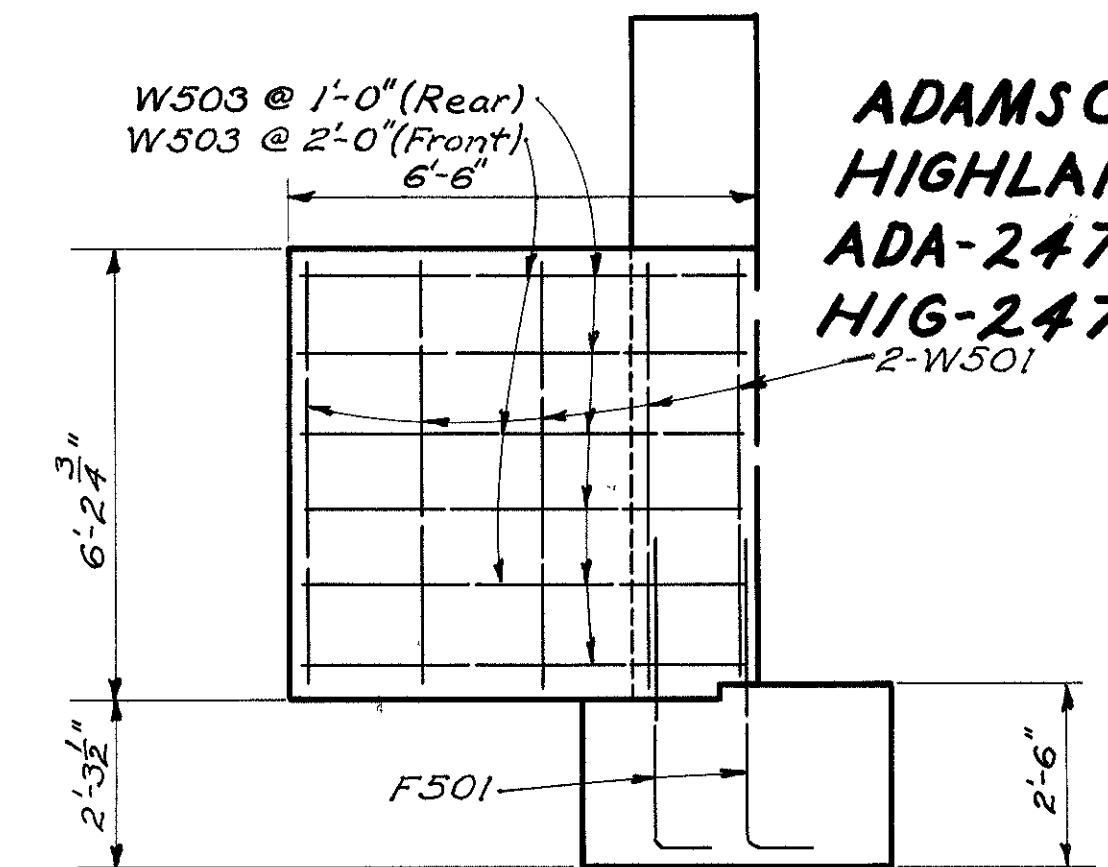
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
G.H.S.	G.H.S.	P.G.E.	J.V.G.	A.G.S.	4-24-50	





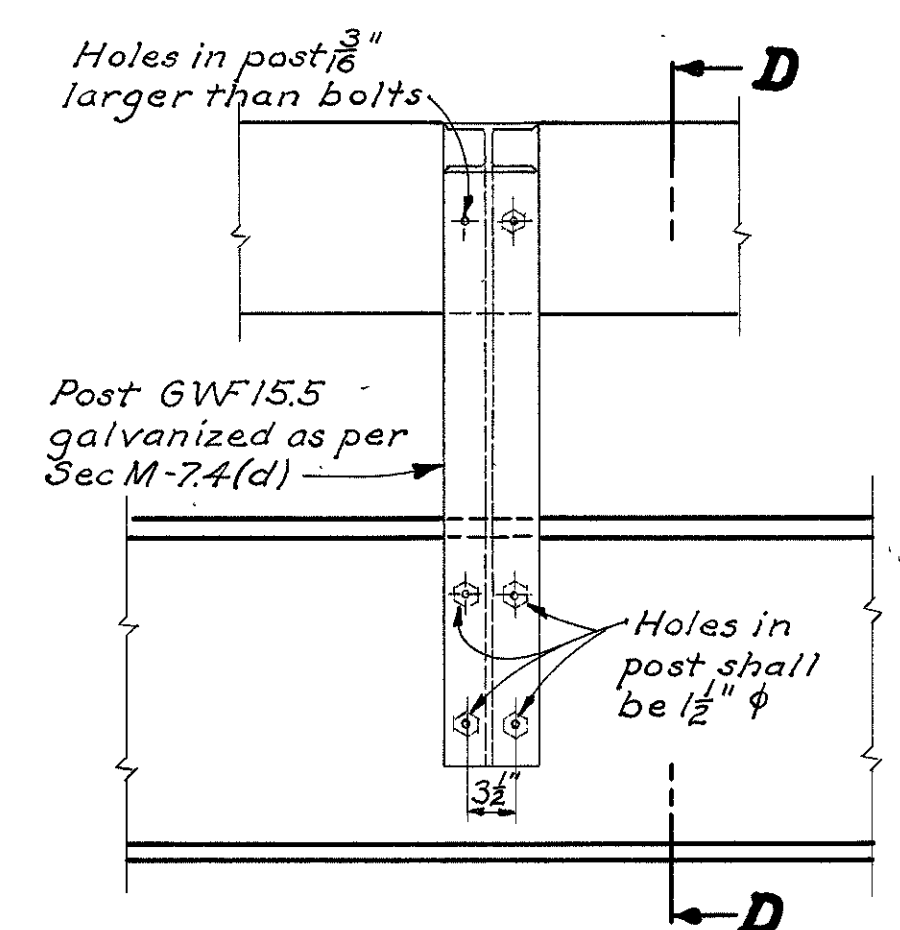


**SOUTH ABUTMENT ELEVATION**

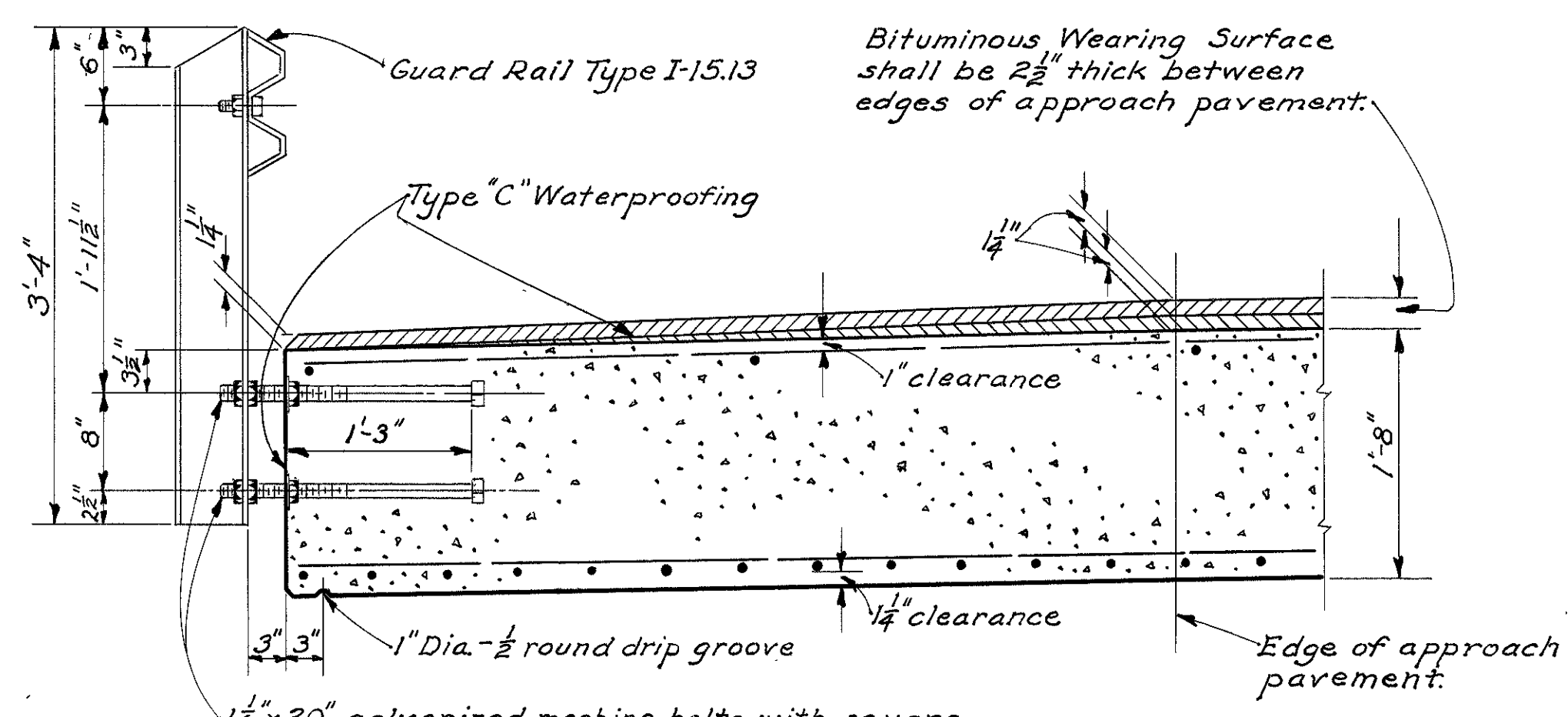


**WING ELEVATION**

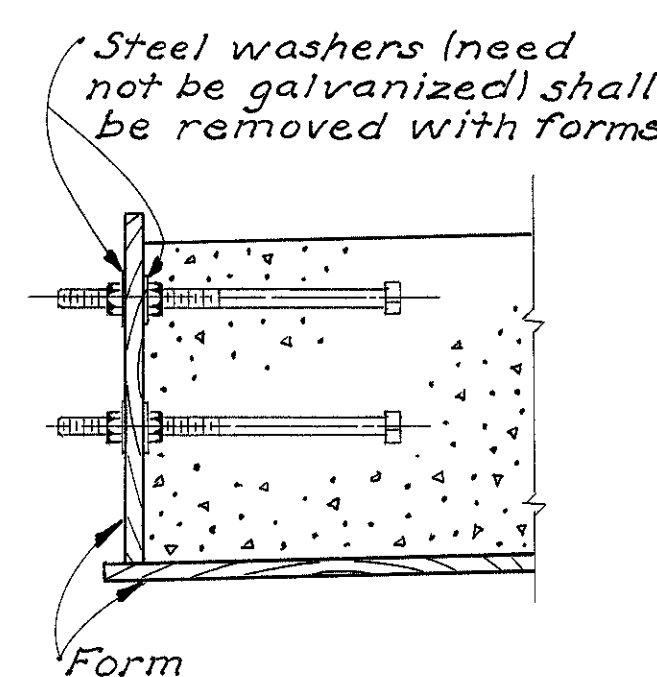
**ADAMSCOUNTY  
HIGHLANDCOUNTY**  
ADA-247-24.03  
HIG-247-0.00  
2-W501



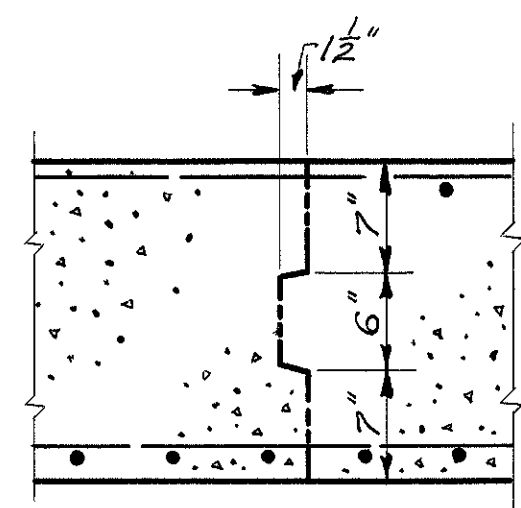
**ELEVATION of RAILING POST**



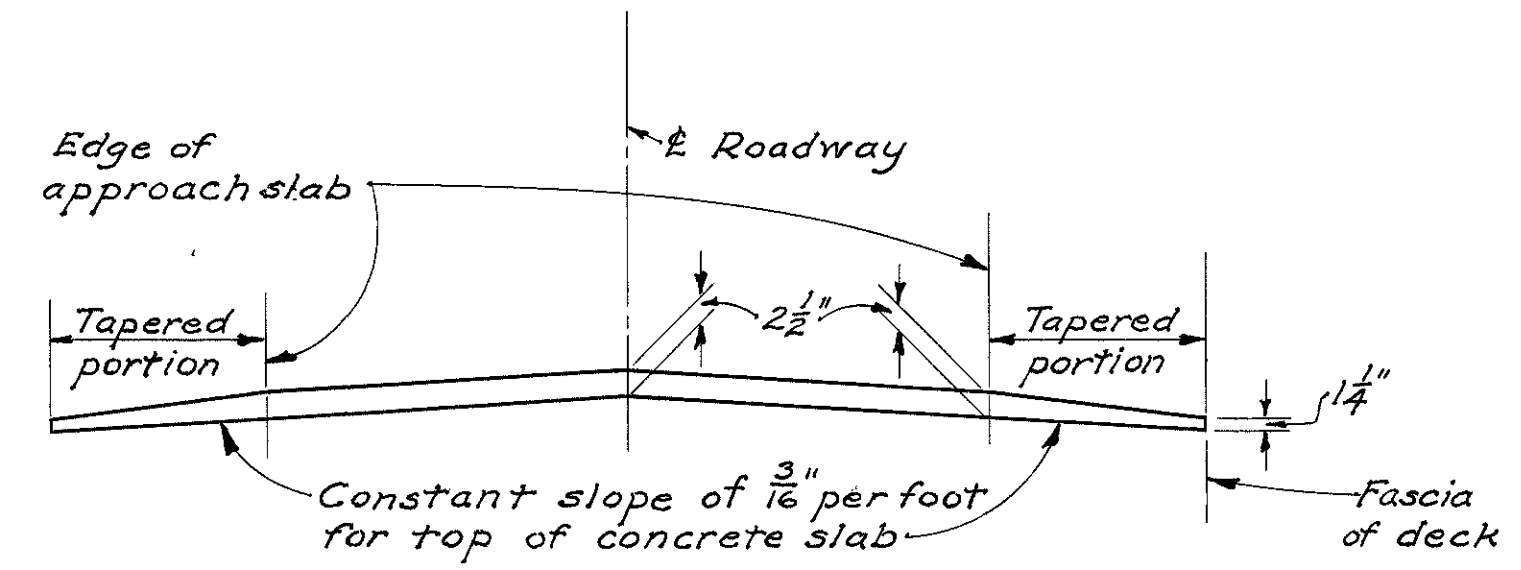
**SECTION D-D**



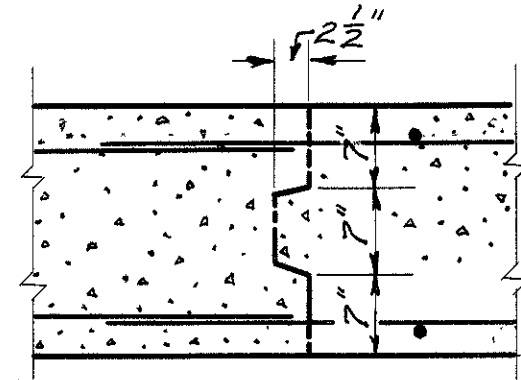
**DETAIL A**



**SLAB CONSTRUCTION JOINT**  
(See Note)



**BRIDGE ROADWAY CROWN FOR  
BITUMINOUS WEARING SURFACE**



**ABUTMENT WALL CONSTRUCTION JOINT**

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						
<b>ABUTMENT &amp; SUPERSTRUCTURE</b>						
<b>DETAILS</b>						
<b>Bridge No. HIG-247-0004</b>						
<b>Over Buck Run</b>						
HIGHLAND CO. Sta. 2+26.25 Sta. 2+64.75						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.P.S.	E.P.S.	P.P.R.	J.V.G.	A.K.A.	4-24-56	

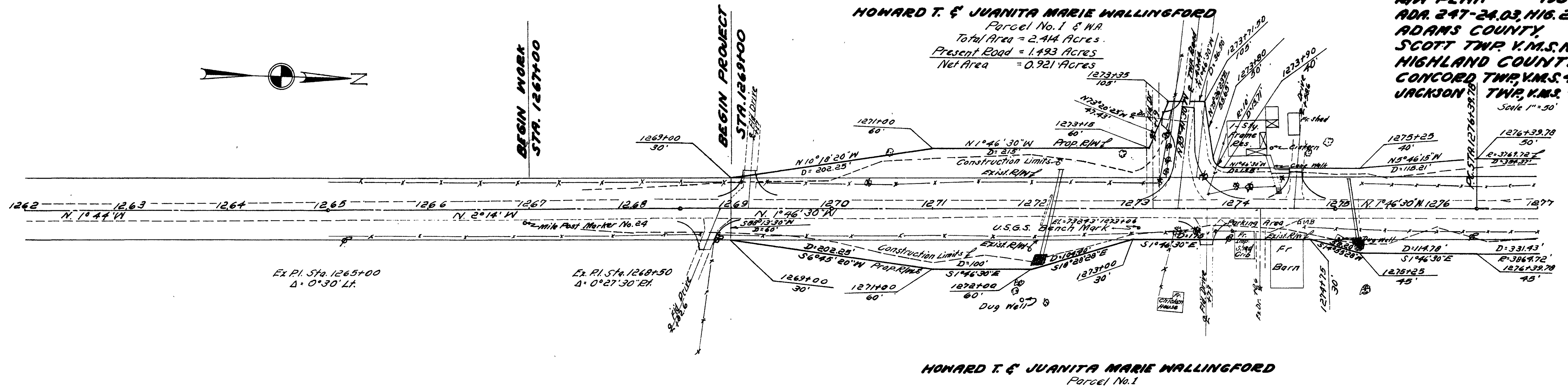
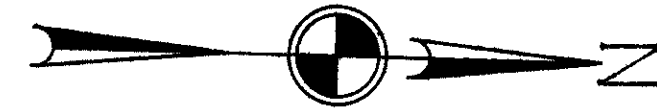
UTILITY OWNERS:  
 Power Line owned by the Columbus And Southern Ohio Electric Company, Columbus Ohio.

ADAMS COUNTY, SCOTT TWP. V.M.S. No. 3593

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

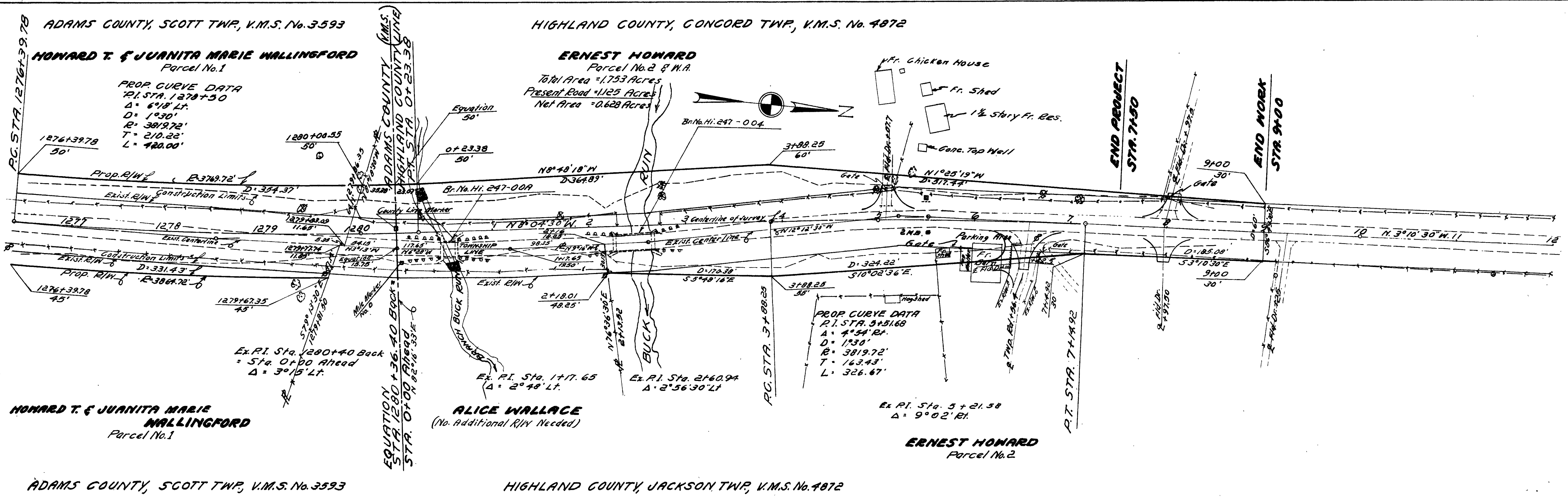
35  
35

**R/W PLAN 1955**  
 ADA. 247-24.03, HIG. 247-000  
 ADAMS COUNTY,  
 SCOTT TWP. V.M.S. No. 3593  
 HIGHLAND COUNTY  
 CONCORD TWP. V.M.S. 4872  
 JACKSON TWP. V.M.S. 4872  
 Scale 1"=50'



**HOWARD T. & JUANITA MARIE WALLINGFORD**  
 Parcel No. 1

ADAMS COUNTY, SCOTT TWP. V.M.S. No. 3593



**HOWARD T. & JUANITA MARIE WALLINGFORD**  
 Parcel No. 1

**ALICE WALLACE**  
 (No. Additional R/W Needed)

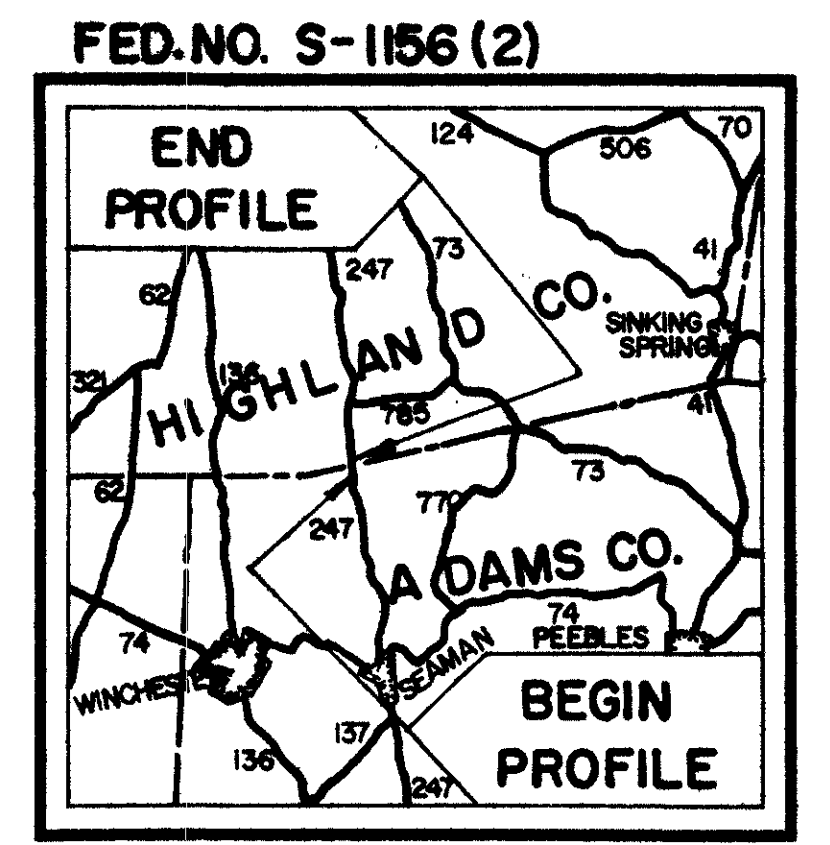
**ERNEST HOWARD**  
 Parcel No. 2

ADAMS COUNTY, SCOTT TWP. V.M.S. No. 3593

HIGHLAND COUNTY, JACKSON TWP. V.M.S. No. 4872

**SOIL PROFILE**  
**ADAMS-HIGHLAND COUNTIES**  
**ADA-HIG-247-(24.03)(0.00)**  
**STATE HIGHWAY TESTING AND RESEARCH LABORATORY**  
 O. S. U. CAMPUS, COLUMBUS, OHIO

NOTE: THE INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS SECURED FOR THE USE OF THE STATE OF OHIO AND IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING THE CONSTRUCTION OF THE PROJECT.



**LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 20 SAMPLES TESTED**

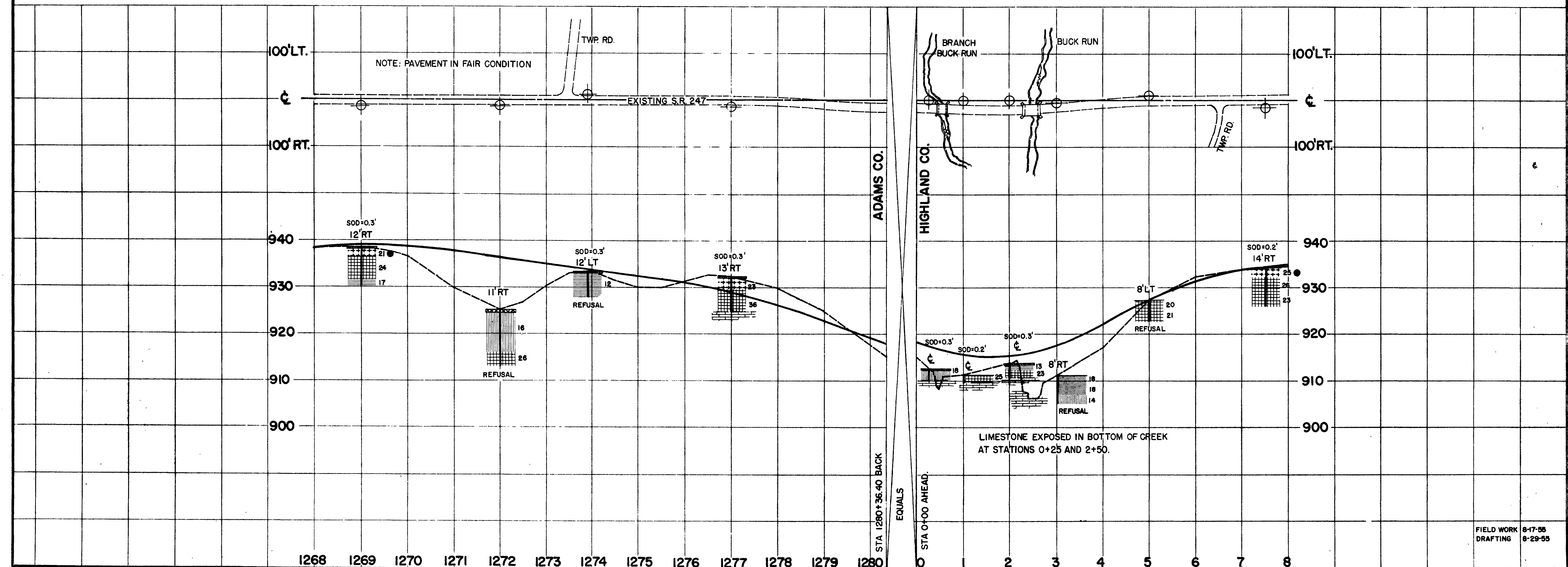
DESCRIPTION	H. R. B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
SANDY SILT.	A-4(s)	A-4a	8	15	25	26	26	23	7	16	3
SILT.	A-4(e)	A-4b	0	3	8	52	37	27	7	23	3
SILT AND CLAY.	A-6(10)	A-6a	1	6	17	37	39	32	14	18	2
SILTY CLAY.	A-6(e)	A-6b	17	8	12	26	37	34	17	14	3
CLAY.	A-7-6(19)	A-7-6	7	3	6	26	58	54	31	25	9

( VISUAL CLASSIFICATION. )

AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.     
 • WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.     
 - SAMPLES TESTED- LAB. NOS. SO: 24729 TO 24748 INCL.

AUGER BORING-PLAN VIEW.     
 BERM MATERIAL.

SOD=X'± APPROX. DEPTH.     
 NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT.



FIELD WORK 8-17-55  
 DRAFTING 8-29-55