

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS

S-492(2)

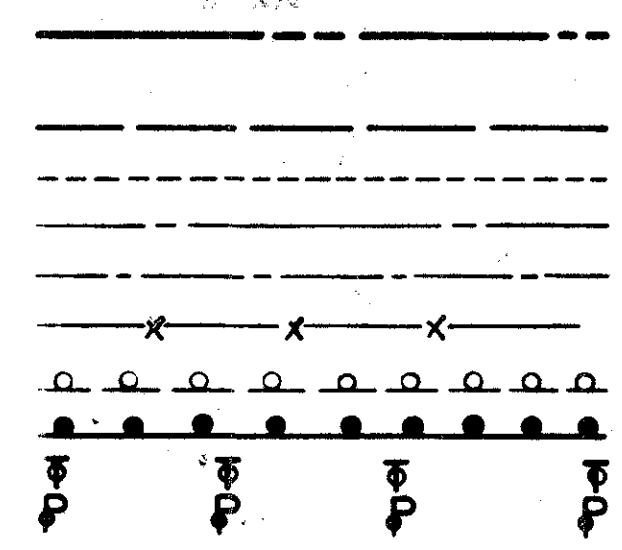
FED. NO. DIVISION	STATE	PROJECT	Type Funds
2	OHIO	S-492(2)	Post War

SCIOTO COUNTY  
SCI-239-0.00

SCI-239-0.00  
WASHINGTON TOWNSHIP  
SCIOTO COUNTY

CONVENTIONAL SIGNS

- State Line
- Township Line
- Section Line
- Center Line
- Corporation Line
- Fence Line
- Guard Rail (existing)
- Guard Rail (proposed)
- Telephone Poles
- Power Poles

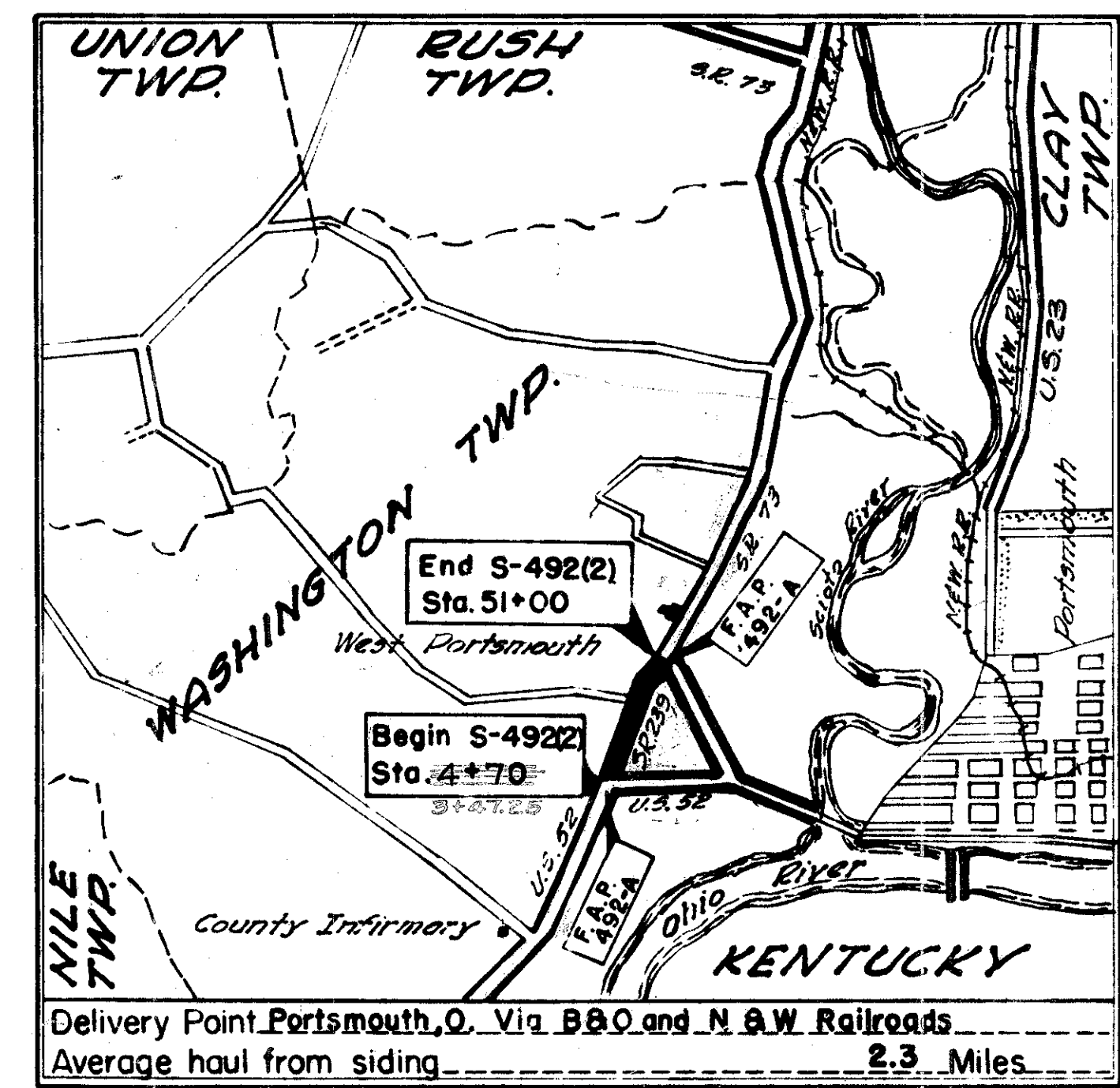


INDEX OF SHEETS

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LINE DATA

Begin Project S-492(2) Sta. ~~3+47.25~~ <sup>3+47.25</sup> 4+70  
 End Project S-492(2) Sta. 5+00  
 Net Length of Project ~~4630.0~~ <sup>4752.75</sup> Lin. Ft.  
 Addition for Equation (Sheet No. II) 5.92 Lin. Ft.  
 Gross Length of Project ~~4635.92~~ <sup>4758.67</sup> Lin. Ft. or ~~0.878~~ <sup>0.901</sup> Miles  
 Add for Approaches ~~3+47.25~~ <sup>3+47.25</sup> ~~367.25~~ <sup>367.25</sup>  
 Sta. 0+40 to Sta. ~~4+70~~ <sup>4+70</sup> = ~~310.00~~ <sup>310.00</sup> Lin. Ft.  
 Sta. 51+00 to Sta. 52+42.48 = 142.48 Lin. Ft.  
 Net Length of Work 5288.40 Lin. Ft. or 1.001 Miles

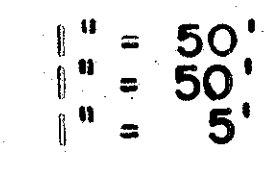


LOCATION PLAN  
SCALE OF MILES



Plan Profile: Horizontal  
Profile: Vertical

SCALE



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 not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates. See note on Sheet 4 for method of handling traffic.

Approved *Joseph N. Doyle*  
Date 4-28-49 Division Deputy Director

Approved \_\_\_\_\_  
Date \_\_\_\_\_ Chief Engineer, Bureau of Maintenance

Approved *Richard Orth, m.c.*  
Date 5-26-49 Chief Engineer, Bureau of Bridges & R.R. Crossing

Approved *R. B. Robinson*  
Date 5-27-49 Chief Engineer, Bureau of Location & Design

Approved \_\_\_\_\_  
Date 5-27-49 First Ass't Director & Chief Engineer

Approved *W. M. Miller*  
Date 5-27-49 Director of Highways

CONSTRUCTION BUREAU  
SEP 12 1956  
GROUND PHOTOLAB

RECOMMENDED FOR APPROVAL	DATE
DISTRICT ENGINEER PUBLIC ROADS ADMINISTRATION FEDERAL WORKS AGENCY	

APPROVED	DATE
DIVISION ENGINEER PUBLIC ROADS ADMINISTRATION FEDERAL WORKS AGENCY	

File No.	SCIOTO County: S.R. 239 Sec. 0.00
Date of Letting	1949
Contract No.	

Supplemental Prints of Standard Construction Drawings			
G- 807	2-1-47	I-8 C.B.2-2A&B	12-15-41
L- 3	2-1-47	I-8 C.B.No.9A	9-2-41
I- 12	3-15-48	I-8 C.B.No.7	5-1-47
S- 27-PC-3	2-20-45	I-8 C.B.1-3&1-4	12-15-41
I-1,2,3,4 & 5	2-20-45	I-8 I No.1	3-1-39
I-14-G	2-1-47	I-15 No.1	3-1-47
I-8 C.B.1-2A&B	12-15-41	I-15 No.2	2-1-47

Supplemental	Specifications
T-110 Rev. 8-3-36	
31	6-13-49

Rev. 4/24/49

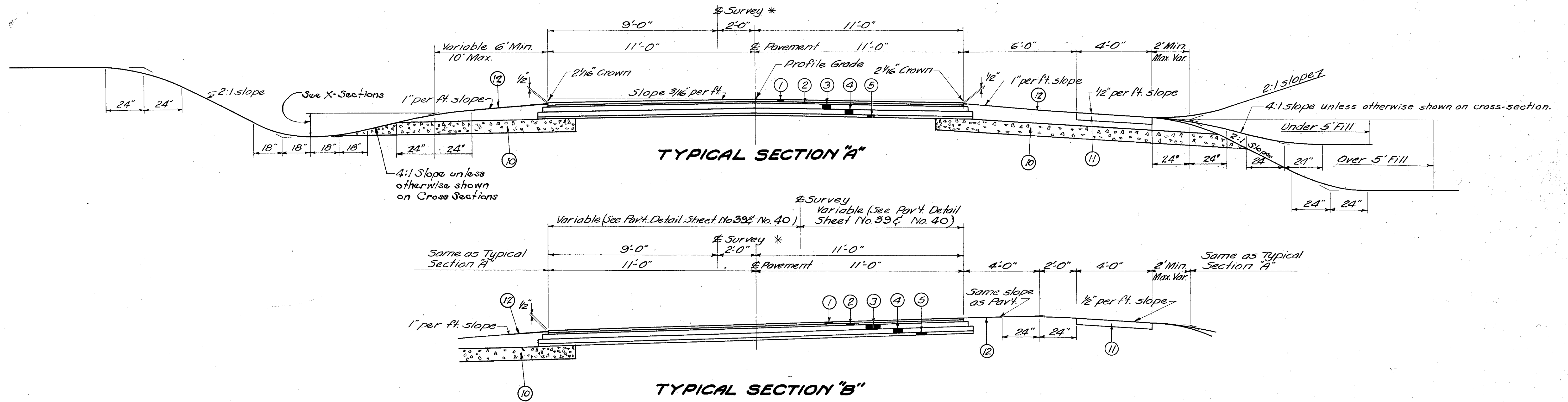
# TYPICAL SECTION TYPE T-35

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

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	S-492 (2)	POST WAR

SCIOTO COUNTY  
SCI-239-0.00

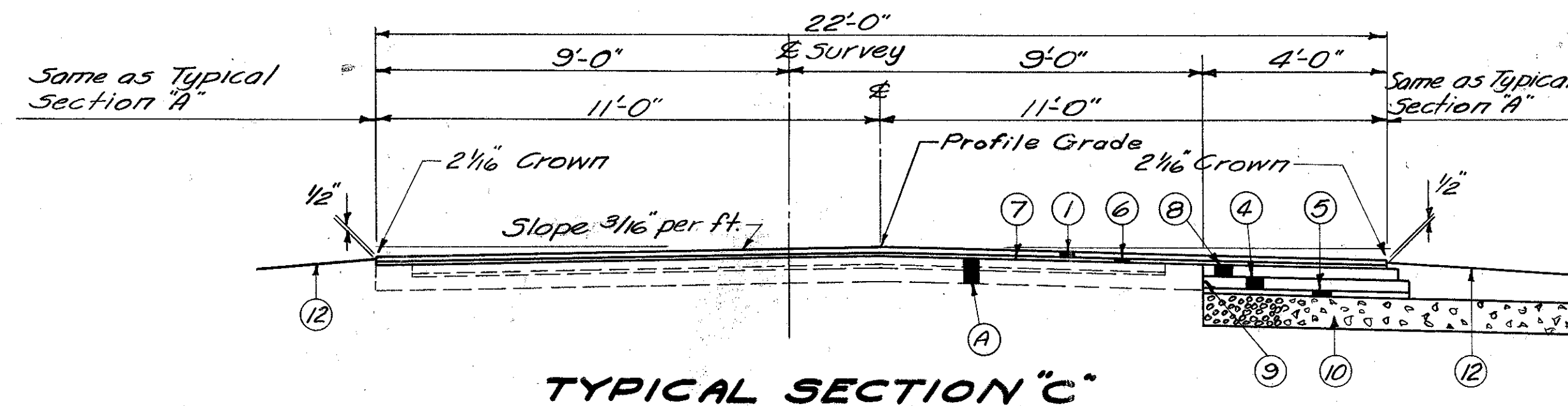
2  
53



\*Applies between the following Stations  
 Sta. 1+00 to Sta. 16+00 = 1500 Lin. Ft.  
 Sta. 21+00 to Sta. 25+50 = 450 Lin. Ft.  
 Sta. 50+00 to Sta. 51+00 = 100 Lin. Ft.

## LIMITING STATIONS TYPICAL SECTIONS "A" & "B"

Sta. 1+00 to Sta. 42+76.18 = 4176.18 Lin. Ft.  
 Sta. 44+68.06 to Sta. 49+00 = 431.94 Lin. Ft.  
 Add for Equation - Sta. 27+29.73  
 Ahead = Sta. 27+35.65 Back = 5.92 Lin. Ft.  
 Total = 4614.04 Lin. Ft.



## LIMITING STATIONS

Sta. 49+00 to Sta. 51+00 = 200.00 Lin. Ft.

## LEGEND

- ① Item T-35 1/2" Asphaltic Concrete Surface Course Type "A"
- ② Item B-35 3/4" Asphaltic Concrete Leveling Course
- ③ Item B-35 3" Asphaltic Concrete Upper Base Course
- ④ Item B-35 3" Asphaltic Concrete Lower Base Course
- ⑤ Item I-19 1 1/4" Insulation Course
- ⑥ Item B-35 3/4" Min. (1" Avg.) Variable Depth Asphaltic Concrete Leveling Course
- ⑦ Item T-30 Bituminous Tack Coat Sec. M-5.5 55-1, using 0.10 gal. per sq. yd.
- ⑧ Item B-35 3" Asphaltic Concrete Leveling Course
- ⑨ Item E-8 Sealing Only
- ⑩ Item I-9 Stone Underdrain
- ⑪ Item I-13 4" to 6" Sidewalks
- ⑫ Item L-9 Seeding and Protecting Type "A"

Ⓐ Existing 3" Brick Surface Course on 1" Sand Cushion and 5" Plain Concrete Base

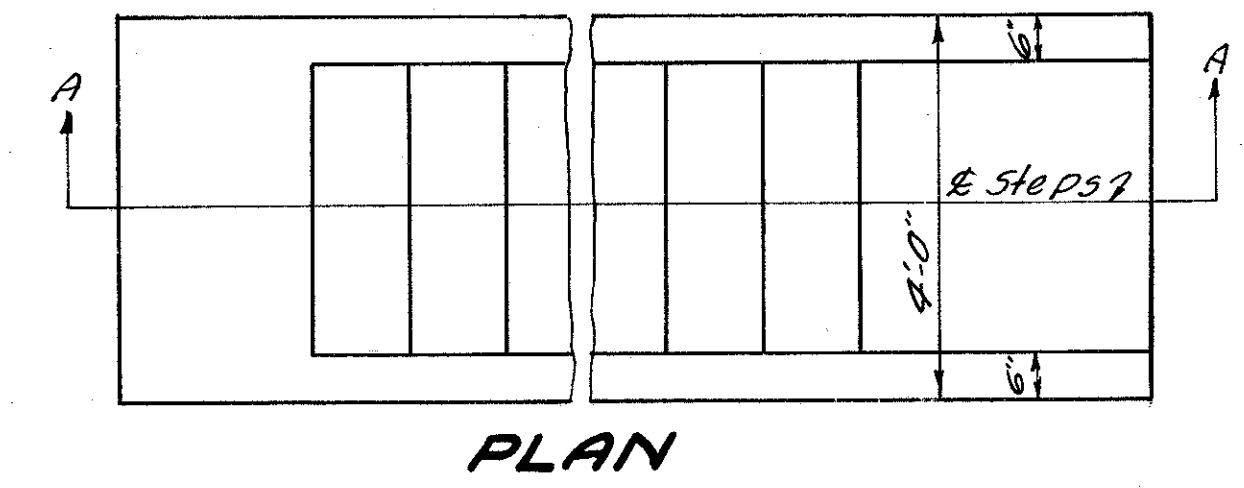


# TYPICAL DETAILS

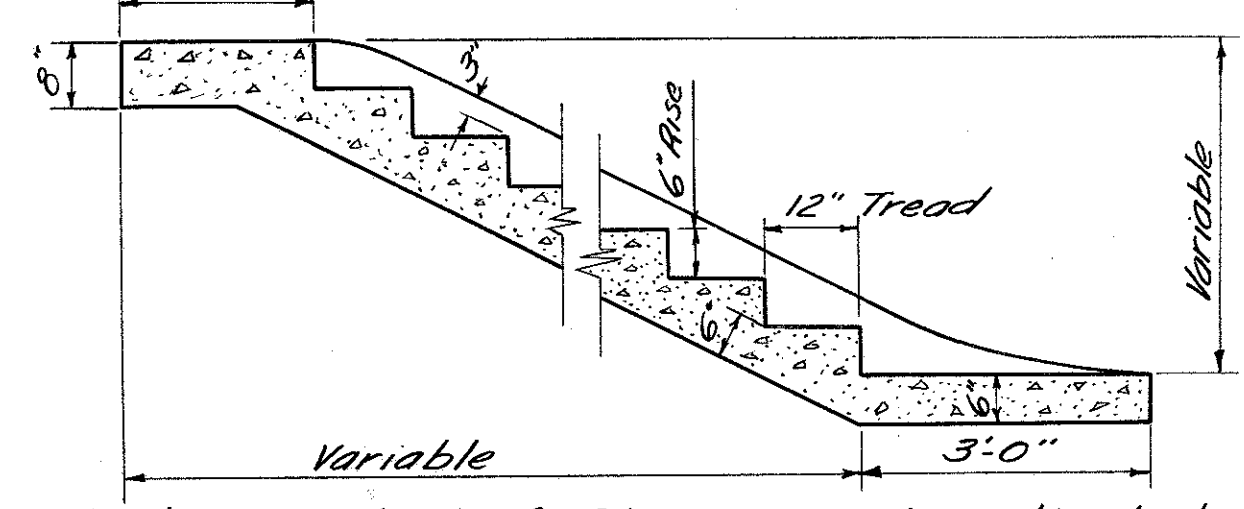
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	5-492 (2)	POST WAR

SCIOTO COUNTY  
SCI-239-0.00

3  
55



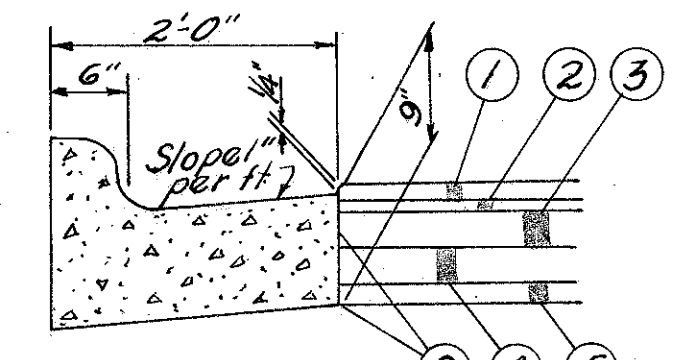
PLAN



SECTION A-A

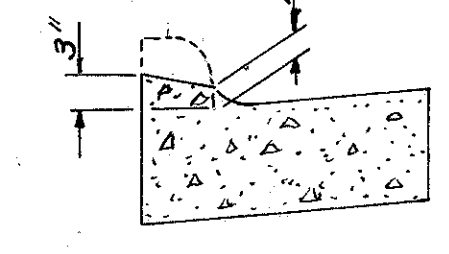
TYPICAL DETAIL OF CONCRETE STEPS

Note: Location of Steps may be adjusted by the Project Engineer.



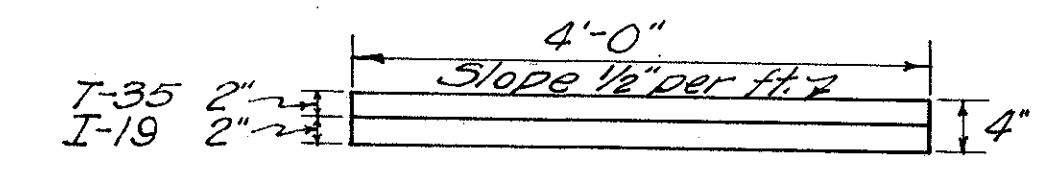
Sta. 1+66 to Sta. 4+20 Rt.  
Sta. 51+00 to Sta. 51+45 Rt.  
Sta. 47+80 to Sta. 51+83 Lt.

DETAIL OF CONCRETE COMBINED CURB & GUTTER

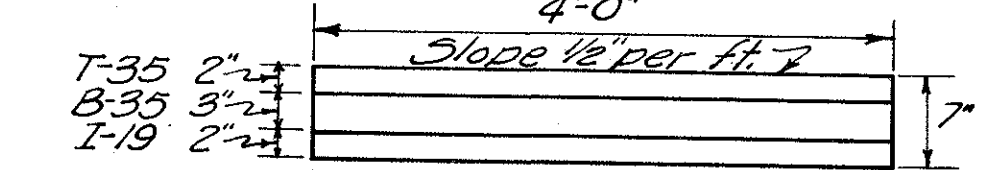


Curb shall be depressed at drives to the lengths shown on the alignment sheets

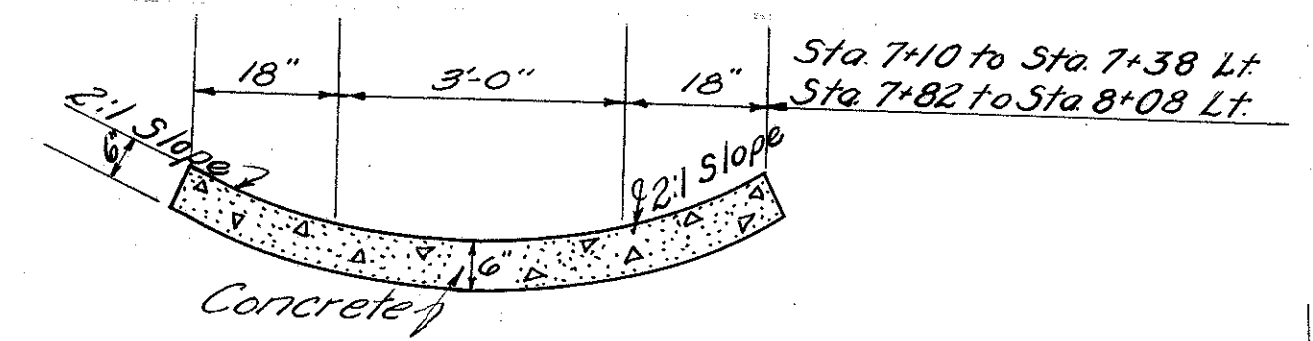
DETAIL OF DEPRESSED CURB



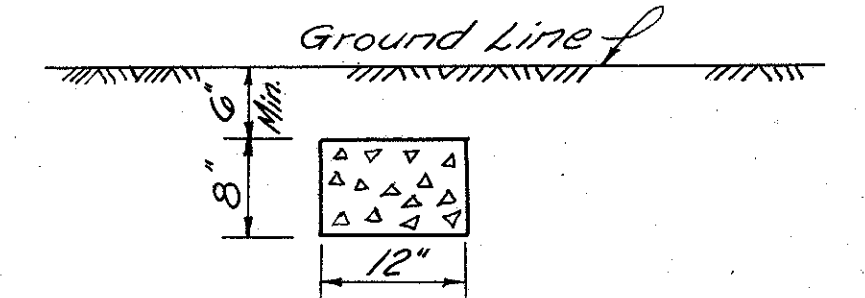
ASPHALTIC CONCRETE SIDEWALK TYPE "C"



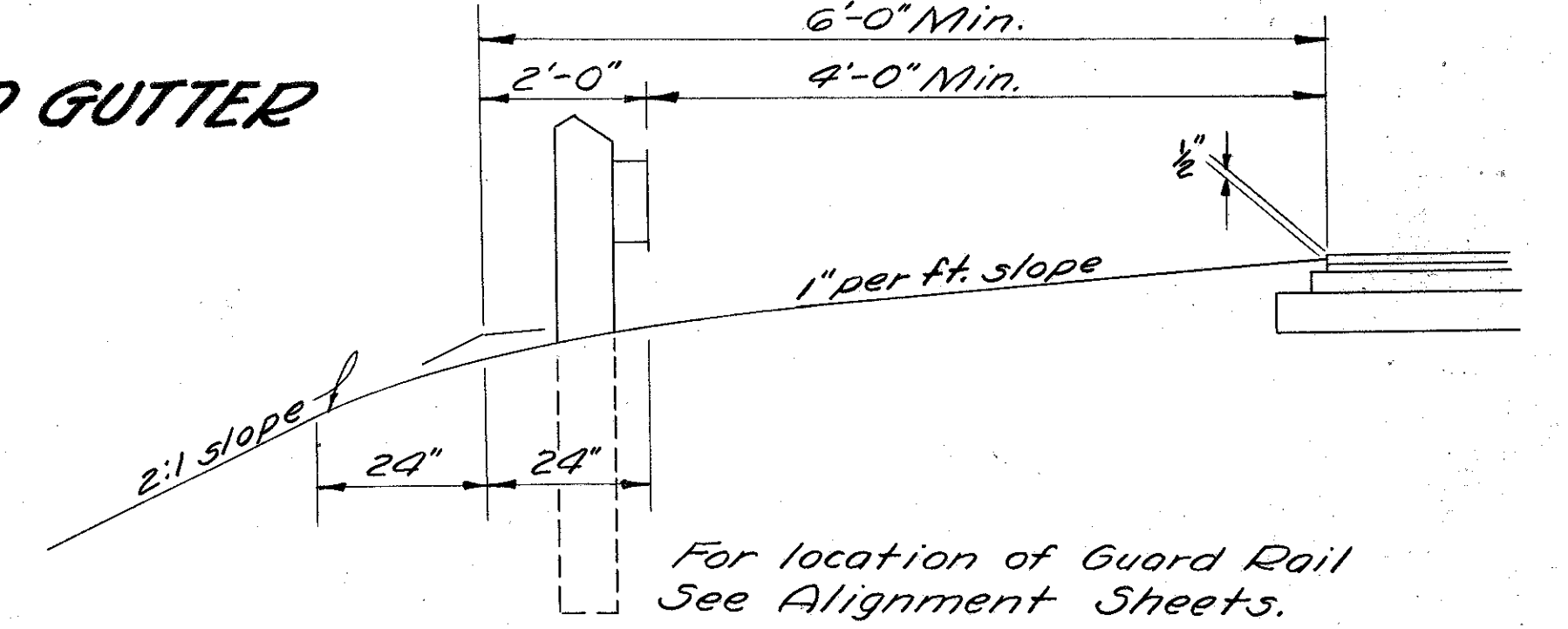
ASPHALTIC CONCRETE SIDEWALK AT DRIVES  
DETAIL OF ALTERNATE SIDEWALK TYPE "C"



DETAIL OF PAVED GUTTER  
Scale 1/2" = 1'-0"

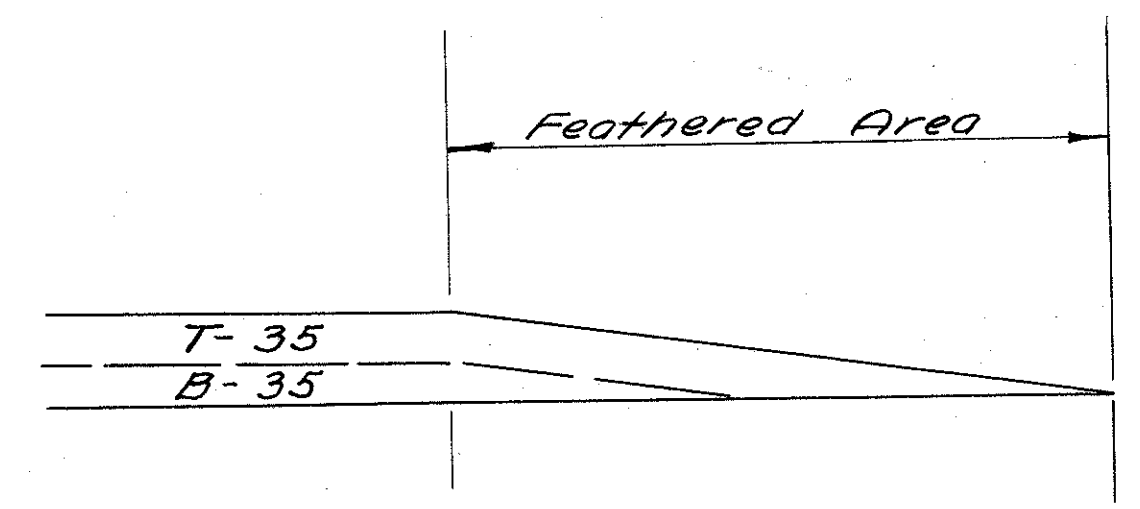


DETAIL OF ITEM I-9 STONE UNDERDRAIN

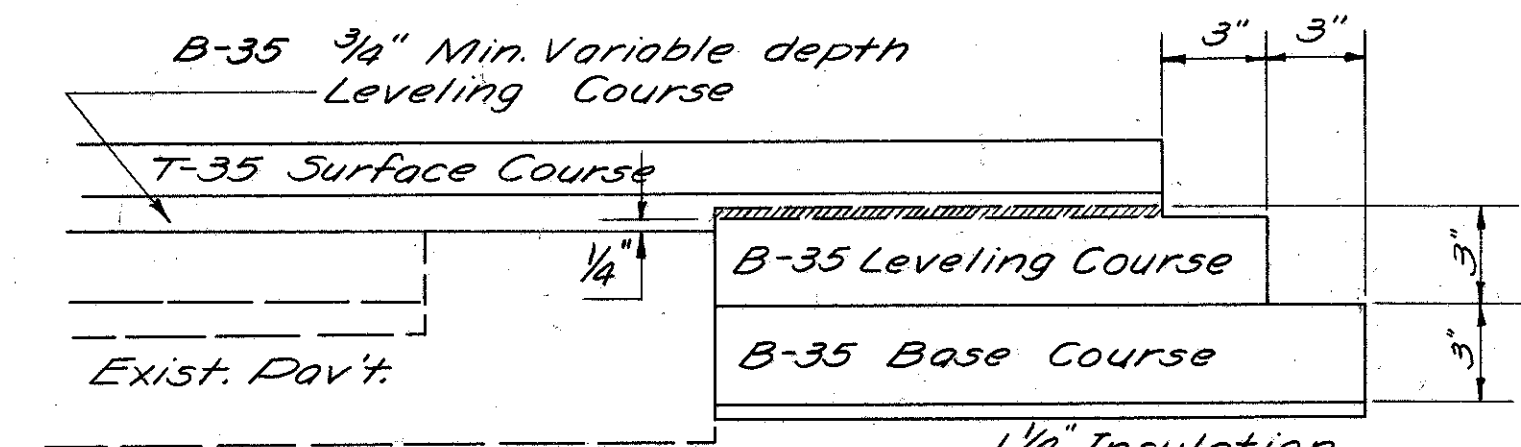


PART SECTION SHOWING GUARD RAIL

For location of Guard Rail See Alignment Sheets.

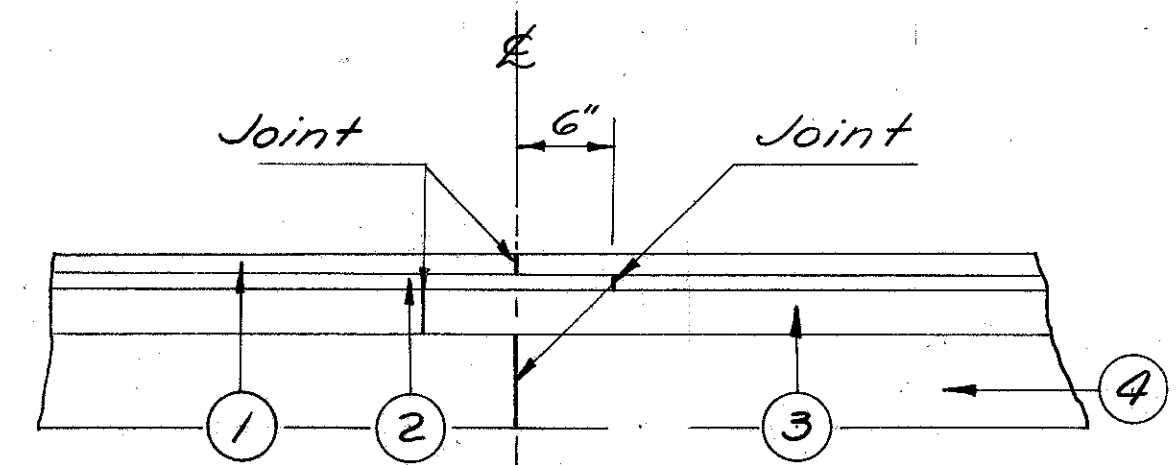


METHOD OF PLACING FEATHERED AREAS

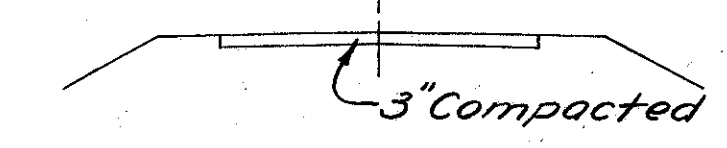


Where the 3" leveling course in the widening area would finish more than 1/4" above the edge of the existing pavement, that portion below the dash line shall be placed and compacted in a separate operation. The hatched portion above the dashed line shall be placed simultaneously with the full width Leveling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

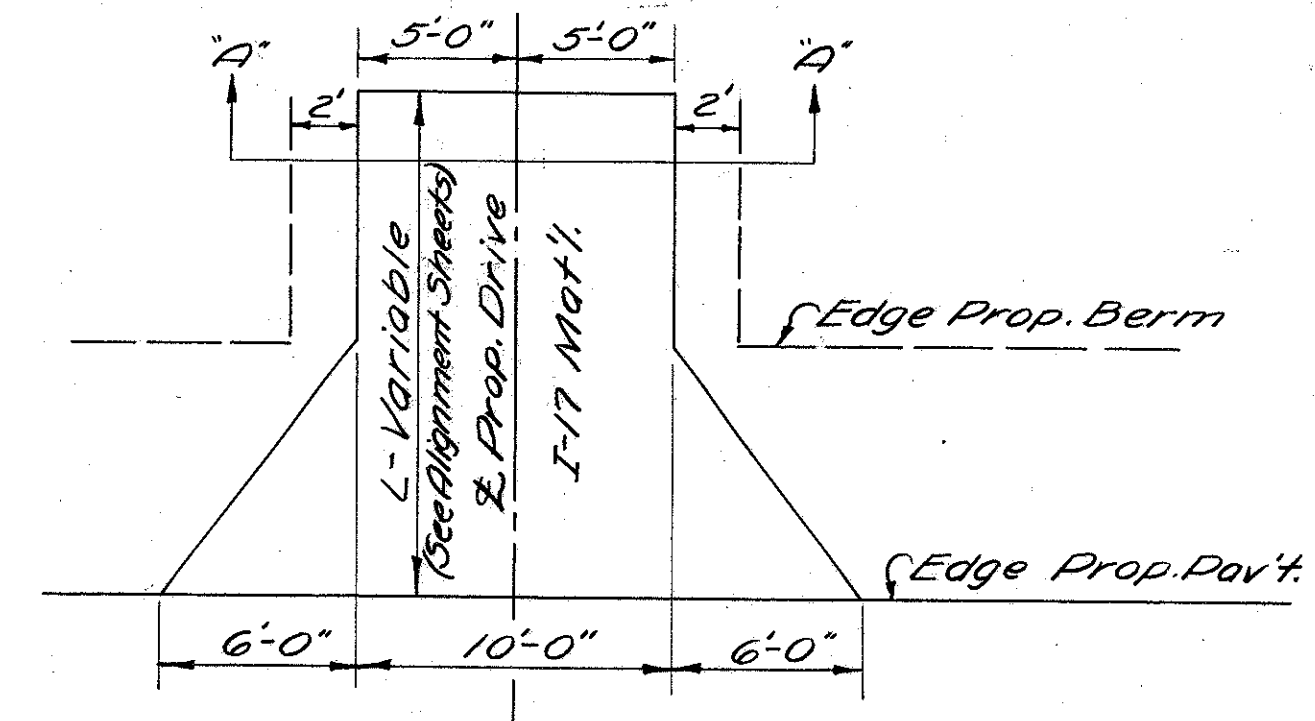
EDGE CONSTRUCTION & COURSE DETAIL



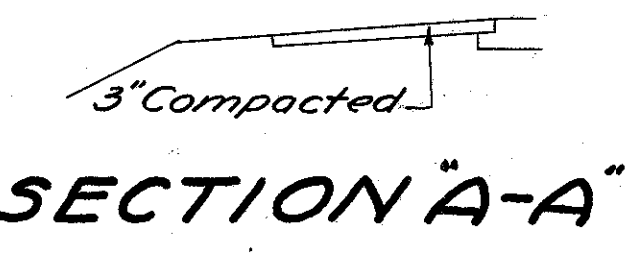
METHOD OF LAPPING LONGITUDINAL JOINTS IN PROPOSED SURFACE



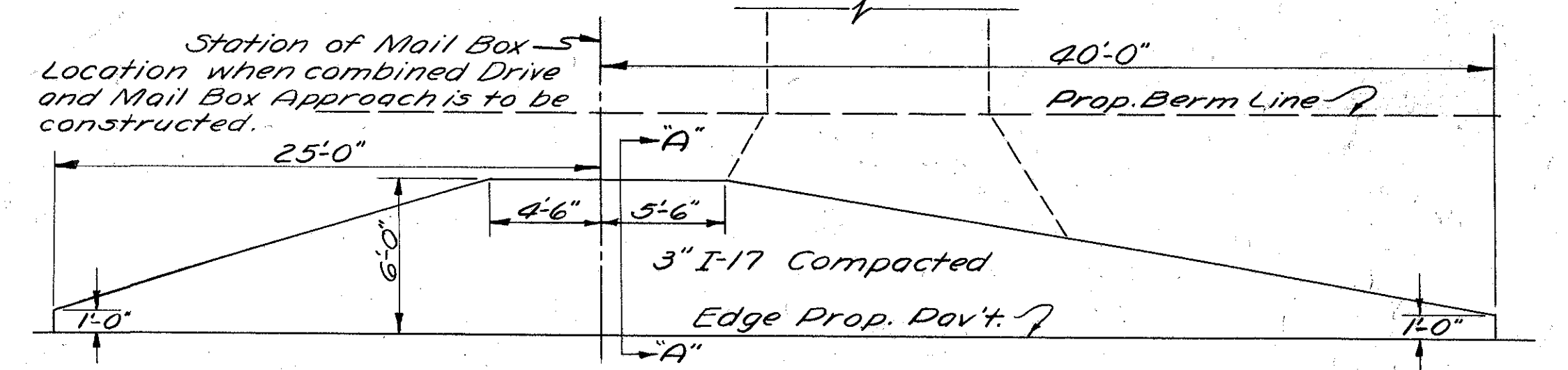
SECTION "A-A"



TYPICAL PLAN OF DRIVE



SECTION "A-A"



TYPICAL PLAN OF MAIL BOX APPROACH

# NOTES

FED. RD. DIVISION	STATE	PROJECT	TYPL FUNDS
2	OHIO	S-492 (2)	POST WAR

4  
55

SCIOTO COUNTY  
SCI-239-0.00

## GENERAL

### FIELD HOUSE

The Contractor shall provide a suitable "Field Office" for the exclusive use of the engineer and inspectors assigned to the project. This office shall have a minimum of 140 Sq. Ft. of floor space, and so arranged, equipped, and lighted that the State Employees will have a convenient place for making necessary records, etc., and have a safe place for storage of equipment, plans, and necessary supplies.

The Contractor shall have a telephone installed and maintained during construction of this project.

When the work is in progress during cold weather, the office shall be heated to a temperature of at least seventy (70°) degrees Fahrenheit. See Section S-O.01(b) of the Construction & Material Specifications.

### UTILITY ADJUSTMENT

Any and all work required for Public or Private Utilities will be done by and at the expense of their respective owners unless otherwise noted in these plans.

### MAINTENANCE OF TRAFFIC

Through traffic shall be routed over U.S. Route 52 and State Route 73 during construction operations until November 1, 1949 with the exception that traffic shall be maintained through the project during any period of high water, which may occur prior to November 1, 1949, that will cause the closing of U.S. 52 between the junctions of S.R. 239 and S.R. 73.

The contractor shall complete not later than October 31, 1949; (1) the temporary runaround bridge and approaches between Sta. 41+00 and Sta. 46+00, and (2) pavement items including incidental work connected therewith, from Sta. 0+00 to Sta. 41+00 and from Sta. 46+00 to Sta. 51+00. After November 1, 1949 through traffic shall be maintained over the new pavement and the temporary runaround.

In the event the Contractor fails to complete the new pavement and temporary runaround bridge and approaches as outlined above, the Contractor shall furnish at his own expense all aggregate and calcium chloride required to maintain traffic after Nov. 1, 1949, except on the temporary runaround approaches between Sta. 41+00 and Sta. 46+00.

Quantities of 2,000 Cu. Yds. of T-110 aggregate and 40 Tons of M-10 calcium chloride have been estimated for use on the temporary runaround and other emergency use prior to November 1, 1949.

## PAVEMENT

### SUPERELEVATION

See Superelevation Tables Sheet 19A17.

### FILLING MAJOR DEPRESSIONS

Major depressions in existing pavement shall be filled and compacted with bituminous concrete leveling material in advance of placing the regular leveling course. These depressions shall be filled in layers not to exceed 3 inches in depth when compacted.

### ALTERNATE SIDEWALK

Asphaltic concrete sidewalk shall be bid as an alternate for the Portland cement concrete sidewalk, Item I-13 proposed in these plans. They shall be constructed to meet the requirements of Item T-35 and Item B-35. Type "C" composition shall be used for T-35. For dimensions see section on Sheet 16B.

### ITEM E-8 SEALING ONLY

In addition to the requirements of Sec. E-8.04, Sealing Joints, edges of Portland cement concrete pavement to be sealed shall be thoroughly cleaned before applying the sealing agent.

## ROADWAY

### LOCATION AND SIZE OF EXISTING PIPE

The location, depth and size of existing pipes are shown as nearly 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.

### SANITARY SEWERS

No Sanitary Sewers shall be connected in any manner or form to the Storm Drainage System on this project by the Contractor.

### SEEDING AREAS

The quantities of Seeding, Item L-9, are calculated for the soil areas between lines twelve (12) feet outside the work limits as shown on the cross-sections or to the right-of-way line if such line is less than twelve (12) feet from the work limits.

The quantities are approximate and actual limits of seeding will be determined by the Engineer during construction.

The number of square yards of seeding to be paid for shall be the actual number of square yards of seeding placed, as determined by final measurement.

### REMOVAL (MISCELLANEOUS)

The removal and disposal of any existing pavement, sidewalk, building foundations, steps, cellar floors, well covers, cistern covers, septic tanks, concrete bases, walls, curbs, curb and gutters, rails, ties, pole stubs, headwalls, pipes, cast-iron plates or other masonry lying within or below, the limits of Roadway Excavation, Item E-1, or Excavation for Structures, Item E-2 (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.

Pavement, 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 located without the limits of the proposed pavement area.

Pavement, sidewalks, 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-1.05 of the Construction and Material Specifications. Wells, cisterns and septic tanks shall be filled with broken foundation masonry or rock placed as rock embankment according to Section E-1.05 of the Construction and Material Specifications.

Payment for all of the above operations shall be included in the Contract Unit Price bid for Roadway Excavation, Item E-1, or Excavation for Structures, Item E-2.

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, or Excavation for Structures, Item E-2.

NOTES



# SUMMARY OF QUANTITIES

### DRIVES & APPROACHES 1

See Alignment Sheet No	See Estimated Quantity Sheet No	I-1 Pipe for Driveways		I-17 Side App. Mail Box Turnouts & Berm Material	E-12 Pipe (Removed) & Disposed of	I-13 6" Concrete Sidewalk At Drives	S-1 Concrete For Plugging Pipe
		Lin. Ft.	Lin. Ft.	Cu. Yds.	Lin. Ft.	Sq. Ft.	Cu. Yds.
9	10	12"	15"	113.1	20	672	
11	12	22		144.6		988	0.2
13	14	74		26.1		288	
15	16			9.1		80	
Total		96	24	*292.9	*20	2028	*0.2

### GUARD RAIL 2

See Alignment Sheet No	See Sheet No	I-15 Guard Rail	I-15 Guard Rail Removed & Stored
		Lin. Ft.	Lin. Ft.
	42	125.00	
	43	62.50	
13	14	843.29	430
15	16	495.45	310
Total		1526.24	740

\* Quantities carried to Recap Box

### EROSION CONTROL 3

See Alignment Sheet No	See Estimated Quantity Sheet No	L-9 Seeding/Parachuting Type "A"	L-9 Agricultural Limestone	L-9 Commercial Fertilizer	L-10 Sodding	I-14 Paved Gutter (Asper Plan)	I-14 Paved Gutter Type 2
		Sq. Yds.	Tons	Tons	Sq. Yds.	Lin. Ft.	Lin. Ft.
9	10	5753			36	63	
11	12	6212			100		
13	14	6993			371	90	174
15	16	3719			18		
Total		22,677	10.2	2.04	525	153	174

### SIDEWALKS & STEPS 4

See Alignment Sheet No	See Est. Quant Sheet No	I-13 4" Concrete Sidewalk	I-13 Conc. Steps 6" Rise 12" Tread Integral Wall
		Sq. Ft.	Lin. Ft.
9	10	3960	256
11	12	5012	356
13	14	5712	32
15	16	2556.68	72
Total		17,240.68	716

### RECAP BOX

Box No	E-12 Pipe Removed & Disposed of					I-17 Side App. Mail Box Turnouts & Berm Material	S-1 Conc. for Structures Class "C"
	5"	12"	15"	18"	24"	Cu. Yds.	Cu. Yds.
1			20			292.9	0.2
10							29.3
11						80.0	
5	46	212		115	173		0.1
Total	46	212	20	115	173	372.9	29.6

566 Lin. Ft.

### DRAINAGE 5

See Alignment Sheet No	See Estimated Quantity Sheet No	E-12 Pipe Removed & Disposed of								I-2 Pipe for Storm Sewers				I-3 Pipe for Rainy Dr. Under Appr.				I-5 Pipe Specials Each		E-6 Relaying Pipe	I-8 Catch Basins			Inlets Side Ditch	I-16 Catch Basins Abandoned	S-1 Concrete for Plugging of Portions of Ex. Struct.	S-22 Removal of Portions of Ex. Struct.											
		Lin. Ft.				Lin. Ft.				Lin. Ft.				Berms	Tees	Lin. Ft.	Each			No.	Each		Lump															
		5"	12"	15"	24"	12"	15"	12"	15"	12"	21"	24"	24"	12"	15"	18"	12"	15"	18"	12"	15"	18"	12"	15"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"
9	10	46	40		115						34																											
11	12		142				105	80			100																											
13	14		30				173					4	10	105																								
15	16																																					
Total		46	212		115	173	105	80		34	100	4	10	105																								

### EXCAVATION & EMBANKMENT 6

Station	See Roadway Sheet No	E-1 Roadway Excavation	Roadway Embankment	E-4 Embankment +20%	E-4 Barron
		Cu. Yds.	Cu. Yds.		
From To					
0-40	32+45.45	45.61	261.66	314.00	26,839
Total		45.61	261.66	314.00	26,839

### STONE UNDERDRAIN 7

To Be Placed as Directed	I-9 Stone Underdrain
	Lin. Ft.
Project Estimate	800
Total	800

### P.V.T. REMOVAL 8

See Alignment Sheet No	See Est. Quant Sheet No	E-8 Removal & Disposal of Existing Pav't.
		Sq. Yds.
9	10	775.0
11	12	2180
13	14	1450
15	16	300
Total		5680

### APPROACH SLABS 9

Station	From To	I-7 Reinforced Conc. Appr. Slabs	T-35 2 1/2" Asphaltic Conc. Surf. Course	T-30 Bit. Tack Coat
		Sq. Yds.	Cu. Yds.	Sq. Yds.
42+76.18	42+91.18	36.7	2.5	36.7
44+53.06	44+68.06	36.7	2.5	36.7
Total		73.4	5.0	73.4

### STRUCTURES 20' SPAN & UNDER 10

Structure No	Station	See Detail Sheet No	Type	Size	Length	Standard Drawing	E-2 Excavation for Struct.	I-8 Catch Basins Each	E-3 Channel Excavation	S-1 Conc. for Structure Class "C"	I-10 Riprap Type "A"	S-4 Reinforcing Steel	S-22 Removal of Portions of Ex. Struct.	S-28 Sectional Corrugated Pipe	S-27 Pipe for Roadway Curat	S-24 Removal of Ex. Structure		
						Cu. Yds.	Each	Cu. Yd.	Cu. Yds.	Sq. Yds.	Lb.	Lump	84"	Lin. Ft.	Lump			
1	4+49	45	Pipe	30"	200'		2.58	1	3						24	30'	Lump	
2	11+12	46	Pipe Ext.	24"	4'-0"		5	1		100	45	8			4	200	Lump	
3	21+35.5	46	Pipe Ext.	15"				1		0.30		8						
4	29+54	47	Pipe Culvert		92'-0"		45			28.00		456	LUMP	92				
Total							308	2	1	3	*29.30	45	472	Lump	92	4	200	Lump

# SUMMARY OF QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	5-492(2)	POST WAR

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SCIOTO COUNTY  
SCI-239-0.00

		PAVEMENT CALCULATIONS											11	
See Sheet No	Location and Description	Side	T-35 Asphaltic Concrete Surface Course Type A		B-35 Asphaltic Concrete					T-30 Bit. Tack Coat Sec. M-53, 35-1 using 0.10 gal per sq. yd.	I-19 Insulation Course 1/4"	E-8 Sealing Only	I-12 Combination Curb & Gutter Type "2"	I-17 Side Appro. Mail Box Turnouts & Berm Mat'l.
			1 1/2"	Var. Depth	Leveling Course			Upper Base Course	Lower Base Course					
			Sq. Yds.	Cu. Yds.	3/4"	3/4" Min. 1" Avg.	3"	3"	3"	Sq. Yds.	Sq. Yds.	Lin. Ft.	Lin. Ft.	Cu. Yds.
	TYPICAL SEC. A & B 4614.04 Lin. Ft.													
	4614.04 x 22 x 1/2		11,278.76		11,278.76									
	4614.04 x 22.5 x 1/2							11,535.10						
	4614.04 x 23 x 1/2								11,791.44		11,791.44			
	Sta. 36+51 to Sta. 38+25	Lt.									174.00			
	TYPICAL SEC. C 200.00 Lin. Ft.										200.00			
	200.00 x 22 x 1/2		488.89		488.89									
	200.00 x 42.5 x 1/2					94.44								
	200.00 x 4.5 x 1/2							100.00		100.00				
	200.00 x 18 x 1/2								400.00					
5	Approach Slabs			5.0						73.40				
39	Extra Mat'l for Curve Widening		80.00		80.00			80.00	80.00		80.00			
40	Extra Mat'l for Curve Widening		78.00		78.00			78.00	78.00		78.00			
41	Approach Sta. 0+40 to Sta. 1+00		61.10	1.50		61.10	62.48		63.87		63.87			
41	Side Approach Sta. 1+00 to Sta. 1+58		27.20	1.30		27.20	27.20		27.20		27.20	37.00	37.00	1.00
	Sta. 1+58 to Sta. 4+20										262.00	262.00		
	Drive Sta. 26+80	Rt.	14.00		14.00				16.00		16.00			
42	Side Road Sta. 30+13	Lt.	36.00		36.00		38.00		40.50		40.50			79.00
	Drive Sta. 30+46	Rt.	29.80		29.80				31.44		31.44			
43	Slab Run Road Sta. 45+26	Lt.	315.90		315.90				331.10		331.10			
	Sta. 47+78 to Sta. 5+00	Lt.									317.00	322.00		
41	Approach Sta. 5+00 to Sta. 5+42.88		463.50	3.80		463.50	36.40		36.40	422.50	36.40	115.00	125.00	
	Drive Sta. 50+26	Lt.	18.00		18.00				19.00		18.00			
	Totals		12,891.15	11.60	11,850.46	1040.69	258.52	11,693.10	12,614.95	895.90	12,614.95	1105.00	746.00	80.00
	Conversion to Cu. Yds., Gal., Etc.		447.61	11.60	246.88	28.91	21.57	979.43	1051.25	89.59				
	Totals		459.21 Cu. Yds.		297.33 Cu. Yds.			2025.68 Cu. Yds.		89.59 Gal.	12,614.95 S.Y.	1105.0 Lin. Ft.	746.0 Lin. Ft.	*80.0 Cu. Yds.

Note: Quantity Carried to Recap Box Sheet 1125



# GENERAL SUMMARY

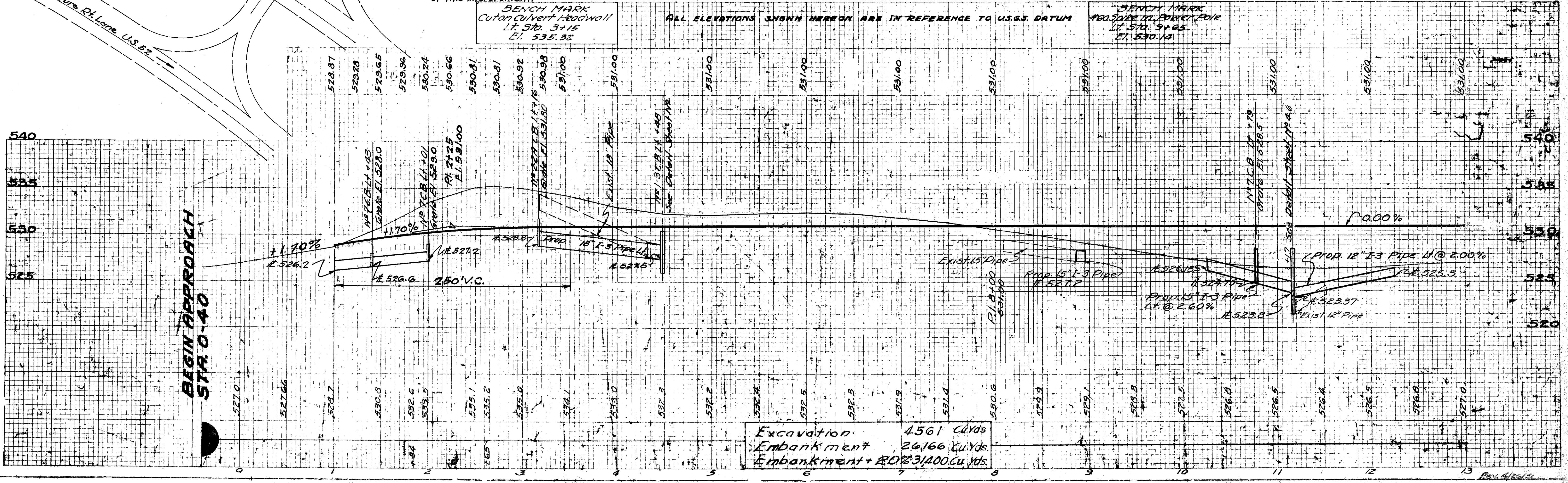
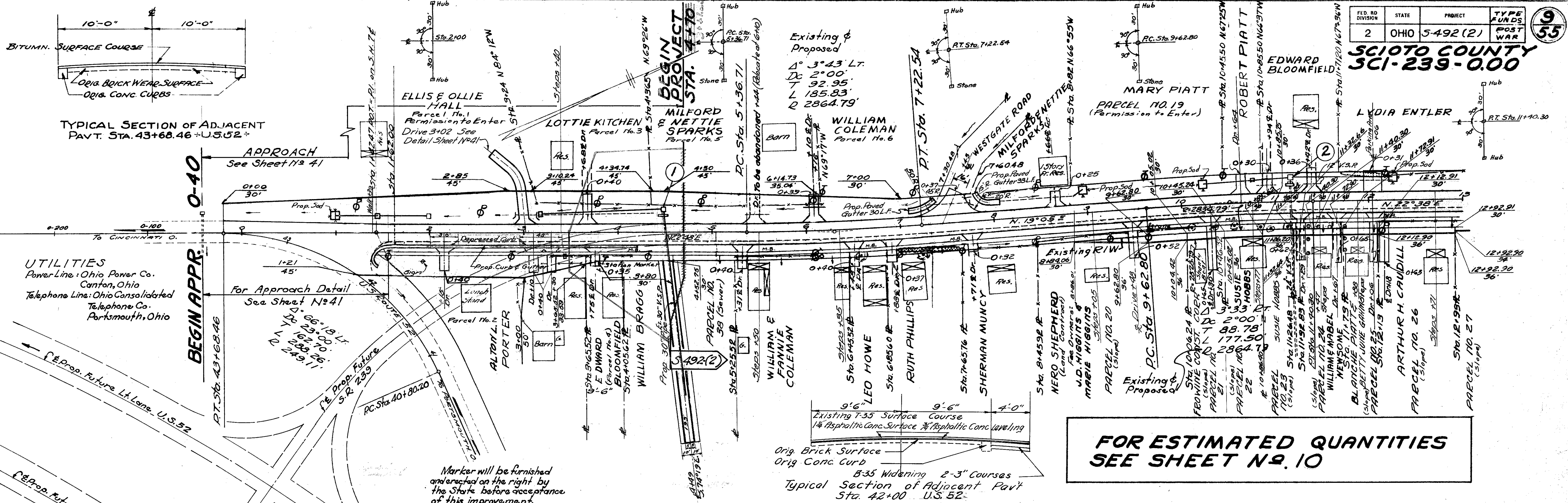
Item No.	Total Quantity	Unit	DESCRIPTION	Code Type 6001	Code Type 6807
<b>ROADWAY</b>					
E-1	45.61	Cu. Yds.	Roadway Excavation	4494	67
E-4	26839	Cu. Yds.	Borrow	26649	190
E-8	5680	Sq. Yds.	Removal & Disposal of Existing Pavement	5680	0
E-11	134	M Gal.	Water	133	1
E-8	1105	Lin. Ft.	Sealing Only	553	552
E-12	566	Lin. Ft.	Pipe Removed & Disposed of (24" and Under)	566	0
E-12	185	Lin. Ft.	Pipe Removed & Stored (15" and Under)	185	0
E-12	34	Lin. Ft.	12" Pipe Removed for Reuse	34	0
E-12	100	Lin. Ft.	15" Pipe Removed for Reuse	100	0
I-1	96	Lin. Ft.	12" Pipe for Driveways	96	0
I-1	24	Lin. Ft.	18" Pipe for Driveways	24	0
I-2	105	Lin. Ft.	24" Pipe for Storm Sewers	105	0
I-2	90	Lin. Ft.	24" Pipe for Storm Sewers Under Pavement	90	0
I-2	10	Lin. Ft.	21" Pipe for Storm Sewers	10	0
I-2	4	Lin. Ft.	18" Pipe for Storm Sewers	4	0
I-3	569	Lin. Ft.	12" Pipe for Roadway Drainage	569	0
I-3	83	Lin. Ft.	15" Pipe for Roadway Drainage	83	0
I-3	108	Lin. Ft.	18" Pipe for Roadway Drainage	108	0
I-3	120	Lin. Ft.	12" Pipe for Roadway Drainage Under Approaches	120	0
I-3	20	Lin. Ft.	15" Pipe for Roadway Drainage Under Approaches	20	0
I-3	20	Lin. Ft.	18" Pipe for Roadway Drainage Under Approaches	20	0
I-3	1	Each	12" Pipe Special for Roadway Drainage	1	0
I-5	1	Each	15" Pipe Special for Roadway Drainage	1	0
I-5	1	Each	24" Pipe Special for Storm Sewer	1	0
I-6	34	Lin. Ft.	Relaying Pipe 12" for Roadway Drainage	34	0
I-6	96	Lin. Ft.	Relaying Pipe 15" for Roadway Drainage	96	0
I-8	1	Each	Std. No. 2-2 A Catch Basin	1	0
I-8	3	Each	No. 1 Side Ditch Inlet	3	0
I-8	1	Each	Std. No. 9 A Catch Basin Modified as Per Plan	1	0
I-8	3	Each	Catch Basins as per plan	3	0
I-8	6	Each	Std. No. 7 Catch Basins	6	0
I-9	800	Lin. Ft.	Stone Underdrains No. 2	750	50
I-13	716	Lin. Ft.	Concrete Steps 6" Rise 12" Tread with Integral Wall As per Plan	700	16
I-13	17241	Sq. Ft.	4" Concrete Sidewalk	16437	804
I-13	2028	Sq. Ft.	6" Concrete Sidewalk	1948	80
I-14	153	Lin. Ft.	Paved Gutter as per plan	153	0
I-14	174	Lin. Ft.	Std. Type No. 2 Paved Gutter	174	0
I-15	740	Lin. Ft.	Guard Rail Removed & Stored	740	0
I-15	1526.24	Lin. Ft.	Guard Rail Steel Beam Type (Deep)	1526.24	0
I-16	1	Each	Catch Basins Abandoned	1	0
I-17	373	Cu. Yds.	Side Approaches, Mail Box Turnouts & Berm Material	367	6
L-9	22,677	Sq. Yds.	Seeding & Protecting Type "A"	21563	1114
L-9	2.04	Tons	Commercial Fertilizer (10-6-4)	194	0.10
L-9	10.20	Tons	Agricultural Ground Limestone	97	0.5
L-10	525	Sq. Yds.	Sodding	525	0
T-10	2000	Cu. Yds.	Traffic Compacted Surface Course for maintaining traffic	1880	120
M-10	40	Tons	Calcium Chloride for maintaining traffic	36	4
<b>PAVEMENT</b>					
B-35	298	Cu. Yds.	Asphaltic Concrete Leveling Course (85-100)	250	48
B-35	2026	Cu. Yds.	Asphaltic Concrete Base Course (85-100)	2005	21
I-7	74	Sq. Yds.	Reinforced Concrete Approach Slabs	74	0
I-12	746	Lin. Ft.	Type 2 Combination Curb & Gutter	584	362
I-19	12615	Sq. Yds.	1/4" Insulation Course	12369	246
T-30	90	Gal.	Bituminous Tack Coat Sec. M-3.5 5.5-1	0	90
T-35	460	Cu. Yds.	Asphaltic Concrete Surface Course Type "A" (85-100)	416	44



# GENERAL SUMMARY

ITEM NO.	Total Quantity	UNIT	DESCRIPTION	CODE TYPE 6001	CODE TYPE 6807
			<b>STRUCTURES 20 FT. SPAN &amp; UNDER</b>		
E-2	308	Cu. Yds.	Excavation for Structure	308	0
E-3	3	Cu. Yds.	Channel Excavation	3	0
I-8	2	Each	Std. No. 12-A Catch Basin	2	0
I-8	1	Each	Std. No. 1-B Catch Basin	1	0
I-10	45	Sq. Yds.	Riprap Type "A"	45	0
S-1	296	Cu. Yds.	Concrete for Structure Class "C"	296	0
S-4	472	Lbs.	Reinforcing Steel	472	0
S-22	Lump	Lump	Removal of Portions of Existing Structure	Lump	
S-24	Lump	Lump	Removal of Existing Structures	Lump	0
S-27	4	Lin. Ft.	24" Pipe for Roadway Culverts	4	0
S-27	200	Lin. Ft.	30" Pipe for Roadway Culverts	200	0
S-28	92	Lin. Ft.	84" Sectional Corrugated Pipe Structures	92	0
			<b>STRUCTURE OVER 20' SPAN For Estimated Quantities See Sheet No. 51</b>		
Special	Lump	Lump	Maintaining Traffic (See note on Sheet No. 4)	Lump	Lump
			<b>ALTERNATE FOR SIDEWALK</b>		
I-13	17241	Sq. Ft.	4" Sidewalk As Per Plan (See Sheet No. 3)	16437	804
I-13	2028	Sq. Ft.	7" Sidewalk As per plan (See Sheet No. 3)	1948	80







# ESTIMATED QUANTITIES FOR SHEET No 9

## DRIVES & APPROACHES

Station	Side	I-1 Pipe For Driveways Lin. Ft.	I-17 Side Appr. Mail Box Turnouts & Berm Maint. Cu. Yds.	E-12 Pipe Removed 12" 15" Lin. Ft.	I-13 6" Concrete Sidewalk Drives Sq. Ft.	Remarks
1+39	Walk Lt.		1.5			
2+15	Dr. Rt.		2.3		48	
3+02	Dr. Lt.		3.6			
3+10	Dr. Rt.		3.4		48	
3+30	Dr. Rt.		2.7		48	
3+68	Dr. Lt.		4.1			
3+75	Dr. Rt.		1.9		48	
4+25	M.B. Rt.		2.7			
5+31	Dr. Rt.		3.4		48	
5+55	M.B. Rt.		2.7			
6+10	Dr. Lt.	24	3.3	20 (Remove from Abandoned Drive or Sta. 5+14 Lt.)	48	
6+48	Dr. Rt.		3.4			
6+60	M.B. Rt.		2.7			
6+88	Dr. Rt.		3.1		48	
7+45	Road Lt.		7.6			
7+48	M.B. Rt.		2.7			
7+71	Dr. Rt.		2.4		48	
8+66	Dr. Lt.		1.6			
9+48	Dr. Rt.		4.9		48	
10+52	M.B. Rt.		2.7			
10+64	Dr. Lt.		2.2			
10+94	Dr. Lt.		2.2			
11+29	Dr. Rt.		6.2		48	
11+41	M.B. Rt.		2.7			
11+42	Dr. Lt.		3.2			
11+67	Dr. Rt.		6.5		48	
12+06	Dr. Lt.		2.6			
12+06	Dr. Rt.		6.5		48	
12+14	M.B. Rt.		2.7			
10+30	Dr. Rt.		7.8		48	
12+18	Dr. Rt.		7.8		48	
Totals		24	113.1	20	672	

## SIDEWALKS & STEPS

Station	Side	I-13 4" Conc. Sidewalk Sq. Ft.	I-13 Conc. Steps 2" Tread 6" Rise Integral Wall Lin. Ft.	Remarks
1+42	Rt.	4632		
3+40	Lt.		28	
5+50	Rt.		16	
6+35	Rt.		20	
9+05	Rt.		16	
10+77	Rt.		44	
11+47	Rt.		44	
11+88	Rt.		44	
12+71	Rt.		44	
Deduct of Drives		672		
Totals		3960	256	

## STRUCTURES 20' SPAN & UNDER

For Estimated Quantities See Sheet No 5

## DRAINAGE

Station	Side	E-12 Pipe Removed & Disposed of Lin. Ft.				I-3 Pipe for Roadway Drainage Lin. Ft.			I-3 Pipe for Utility Drain Under Rd. Lin. Ft.	I-8 Catch Basin Each	I-5 Pipe Special (15'-30' Bend) Each	E-12 Pipe Removed for Reuse 12"	I-6 Relaying Pipe 12"	Remarks		
		8"	12"	15"	18"	12"	15"	18"	12"	15"	18"	167	22A			
1+00	2+01	Lt.						98		2				No. 7CB 1+03		
3+16	4+47	Lt.			115			108	20	1				No. 22ACB 3+16		
8+86	8+96	Lt.					12				1					
10+25	12+25	Lt.	46	40			53	71	20	20	1		34	34	See detail sheet No 46 for Culvert Ext. Sta. 11+17 No. 7CB 10+79	
Totals			46	40	115	151	83	108	20	20	3	1	1	34	34	

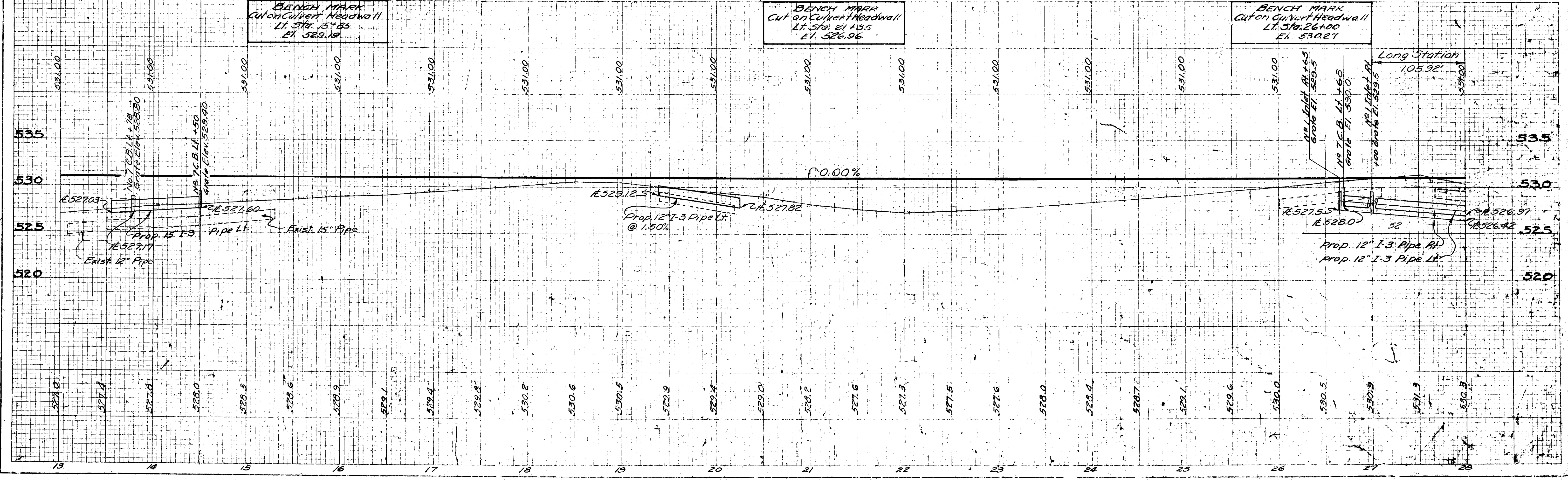
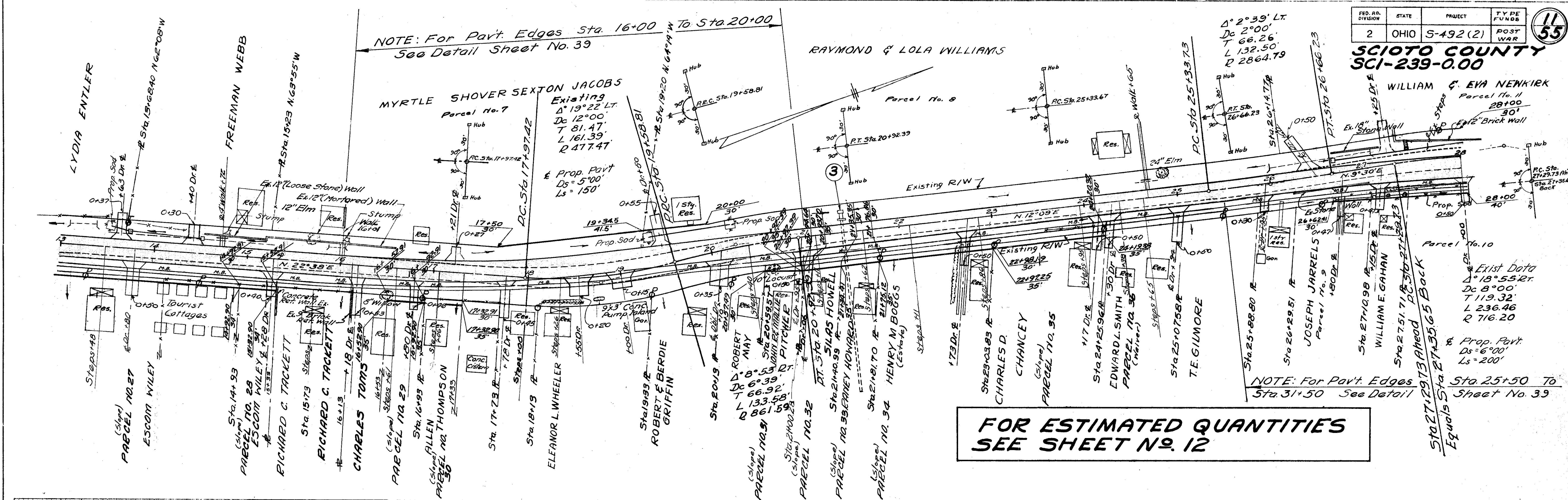
## EROSION CONTROL

Station	Side	L-9 Type "A" Seeding & Protecting Sq. Yds.	L-10 Sodding Sq. Yds.	I-14 Paved Gutter (as per plan) Lin. Ft.
0+40	13+00	Lt.	5753	
1+00		Lt.		9
7+10	7+38	Lt.		30
7+82	8+08	Lt.		33
8+96		Lt.		9
10+25		Lt.		9
12+25		Lt.		9
Totals		5753	36	63

## PAVEMENT REMOVAL

Station	Side	E-8 Removal & Disposal of Exist. Pavt. Base 6" Sand 1", Brk. Sub. Sq. Yds.
1+00	9+75	1750
Totals		1750







# ESTIMATED QUANTITIES FOR SHEET No. 11

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	5-492 (2)	POST WAR

12  
55

SCIOTO COUNTY  
SCI. - 239 - 0.00

DRIVES & APPROACHES						
Station	Side	I-1 Pipe For Driveways		I-13 6" Concrete Sidewalks at Drives	I-17 Side Approaches Mail Box Turnouts & Berrn Matl. Cu. Yds.	S-1 Concrete for Plugging Pipe Cu. Yds.
		Lin. Ft.	12" 15"			
13+63	Dr. Lt.				3.6	
13+80	Dr. Rt.			56	6.1	
14+11	M.B. Rt.				2.7	
14+40	Dr. Lt.				2.6	
14+70	M.B. Rt.				2.7	
14+72	Walk Lt.	12			1.0	
15+28	Dr. Rt.			48	3.3	
15+52	M.B. Rt.				2.7	
16+01	Walk Lt.				1.0	0.2
16+02	M.B. Rt.				2.7	
16+18	Dr. Rt.			48	4.9	
16+70	M.B. Rt.				2.7	
16+80	Dr. Rt.			48	3.4	
17+01	M.B. Rt.				2.7	
17+21	Dr. Lt.				2.7	
17+78	Dr. Rt.			48	5.1	
18+14	M.B. Rt.				2.7	
18+55	Dr. Rt.			80	5.2	
19+00	Dr. Lt.			80	3.2	
19+50	Dr. Lt.				4.7	
19+72	M.B. Rt.				2.7	
20+10	Dr. Rt.			96	5.8	
20+54	M.B. Rt.				2.7	
20+95	Dr. Rt.			48	4.5	
21+71	M.B. Rt.				2.7	
22+73	Dr. Rt.			48	4.5	
22+79	M.B. Rt.				2.7	
23+90	M.B. Rt.				2.7	
24+17	Dr. Rt.			50	4.5	
24+30	Dr. Rt.			50	4.5	
24+60	M.B. Rt.				2.7	
24+65	Walk Lt.	10			1.5	
24+94	Dr. Rt.			48	4.5	
25+86	M.B. Rt.				2.7	
25+95	Dr. Rt.			48	1.9	
26+53	Dr. Lt.				4.5	
26+67	M.B. Rt.				2.7	
26+80	Dr. Rt.			48	3.4	
27+15	Dr. Rt.			48	3.4	
27+25	Dr. Lt.				3.8	
27+62	M.B. Rt.				2.7	
28+00	Dr. Rt.			48	3.3	
21+06	Dr. Rt.			48	4.5	
<b>Total</b>		<b>22</b>		<b>388</b>	<b>144.6</b>	<b>0.2</b>

SIDEWALKS & STEPS				
Station	Side	I-13		
		4" Concrete Sidewalk	Concrete Steps (6" Rise 12" Tread)	
From	To	Sq. Ft.	Lin. Ft.	
13+00	28+00	Rt.	6000	
13+48		Rt.		32
15+73		Rt.		20
16+61		Rt.		24
17+06		Rt.		40
18+26		Rt.		20
20+40		Rt.		20
21+11		Rt.		28
21+62		Rt.		28
22+11		Rt.		28
22+86		Rt.		28
23+95		Rt.		20
24+65		Rt.		20
18+00		Rt.		24
24+38		Rt.		24
Deduct at Drives			-988	
<b>Totals</b>			<b>5012</b>	<b>356</b>

EROSION CONTROL					
Station	Side	L-9		L-10	
		Seeding & Protecting Type "A" Sq. Yds.	Sodding Sq. Yds.	See Sheet No.	
From	To				
13+00	28+00	Rt.	6212		23
13+55		Lt.		9	
26+50	28+20	Rt.		91	28
<b>Total</b>			<b>6212</b>	<b>100</b>	

PAVEMENT REMOVAL			
Station	Side	E-8 Removal & Disposal of Exist. Pavt. 6" Conc. Base 3" Brick Surf. Sq. Yds.	
		From	To
16+00	21+90		1180
23+00	28+00		1000
<b>Total</b>			<b>2180</b>

**STRUCTURES 20' SPAN & UNDER**  
For Estimated Quantities See Sheet No. 5

DRAINAGE														
See Sheet No.	Station	Side	E-12	E-12	E-12	I-3	I-3	I-6	I-8	I-8	S-22	Remarks		
			Pipe Removed and Stored	Pipe Removed for Reuse	Pipe Removed & Disposed of	Pipe for Roadway Drainage	Pipe for Roadway Drainage Under Approach	Relaying Pipe	Side Ditch Inlet No. 1	Catch Basin			Removal of Portions of Existing Structure	
	From	To	Lin. Ft. 12" 15"	Lin. Ft. 15"	Lin. Ft. 12"	Lin. Ft. 12"	Lin. Ft. 12"	Lin. Ft. 15"	Each	Each	Lump			
	13+08	13+35	Lt.	27							Lump			
	13+50	15+30	Lt.	80	100						Lump			
	13+50	14+50	Lt.					96		2		Cost of removing No. 7.C.B. included in Item E-12 No. 7.C.B. 13+78 13+50 Use C.B. Grates from Ex. C.B. 13+76 14+50		
	19+38	20+25	Lt.	78			67	20			Lump			
	26+01	27+10	Lt.			109					Lump			
	26+08	28+00	Lt.				111	20		1		No. 7.C.B. 26+68		
	26+65	28+00	Rt.				92			2		No. 1 Inlet 26+65		
	27+67	28+00	Lt.			33		40			Lump			
<b>Total</b>				<b>105.80</b>	<b>100</b>	<b>142</b>	<b>270</b>	<b>80</b>	<b>96</b>	<b>2</b>	<b>3</b>	<b>Lump</b>		



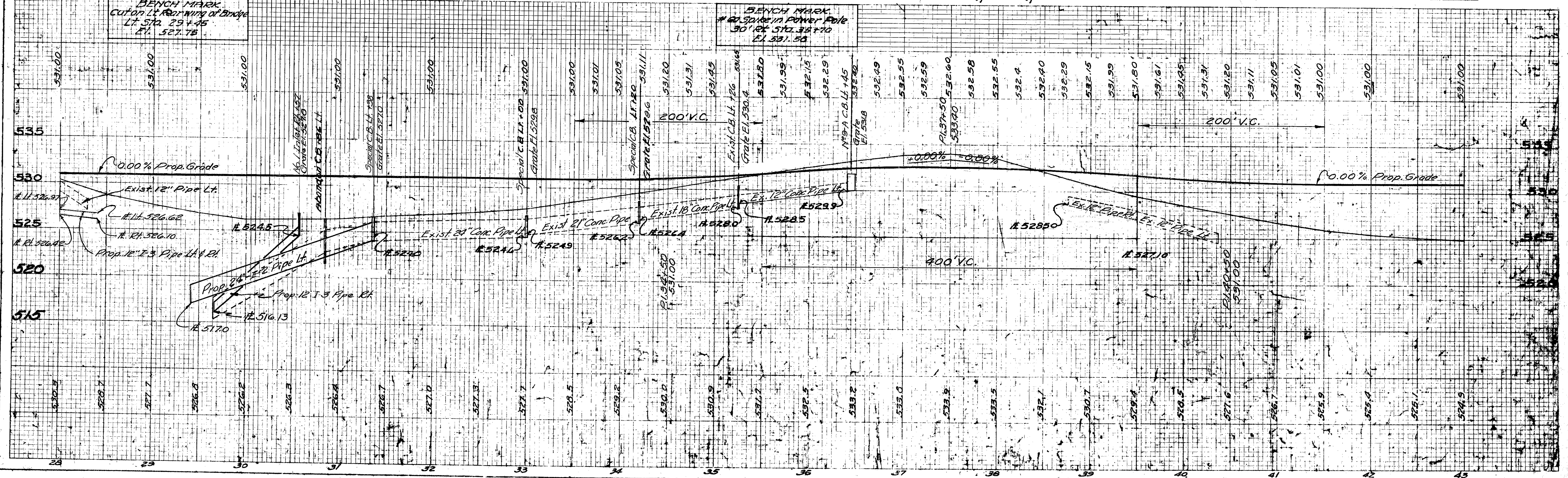
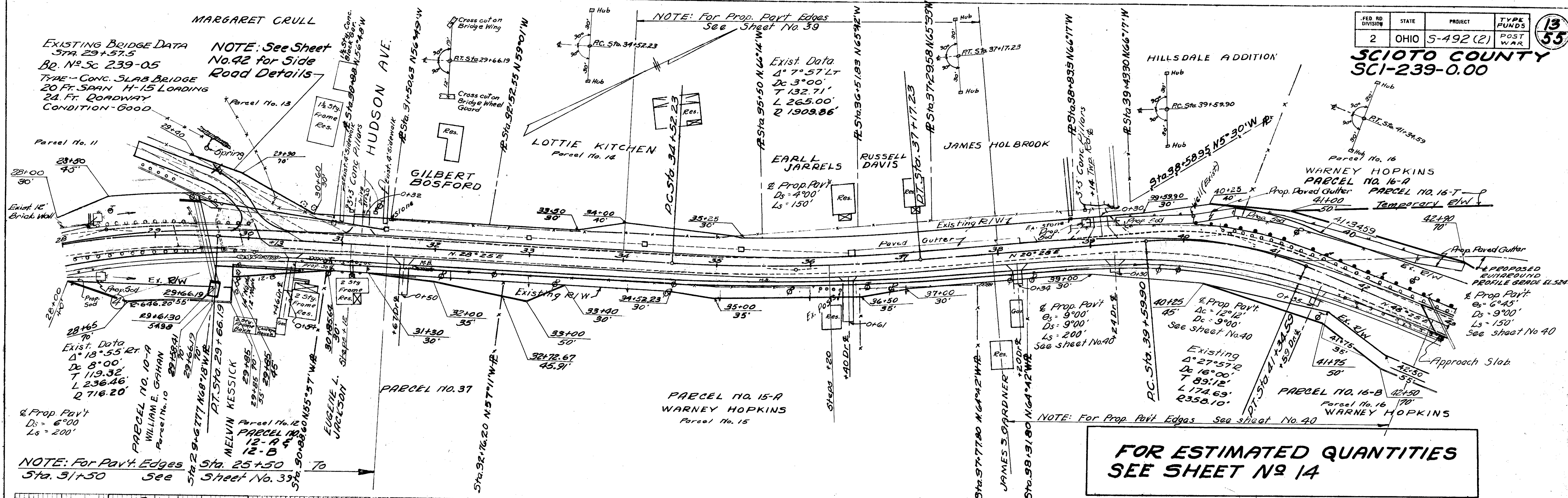
**SCIOTO COUNTY  
SCI-239-0.00**

**MARGARET CRULL**  
 EXISTING BRIDGE DATA  
 STA 29+57.5  
 BR. NO. SC 239-05  
 TYPE - CONC. SLAB BRIDGE  
 20 FT. SPAN H-15 LOADING  
 24 FT. ROADWAY  
 CONDITION - GOOD

NOTE: See Sheet No. 42 for Side Road Details

NOTE: For Prop. Pavt Edges See Sheet No. 39

**FOR ESTIMATED QUANTITIES  
SEE SHEET NO 14**





# ESTIMATED QUANTITIES FOR SHEET N<sup>o</sup> 13

DRIVES & APPROACHES					
Station	Side	I-1 Pipe for Driveways Lin. Ft.	I-13 6" Concrete Sidewalk at Drives Sq. Ft.	I-17 Side Appro. Mail Box Turnouts & Berm Motl. Cu. Yds.	See Sheet No.
30+13	Road Lt.				42
30+46	Dr. Rt.		48		
31+20	Dr. Lt.			3.5	
31+67	Dr. Rt.	24	48	1.8	
31+95	M.B. Rt.			2.7	
35+47	M.B. Rt.			2.7	
36+40	Dr. Rt.		48	1.6	
38+20	Dr. Rt.		48	1.6	
39+14	Temp. Rd. Lt.	30		8.0	
39+24	Dr. Rt.		48	1.6	
41+59	Dr. Rt.	20	48	2.6	
Total		74	288	26.1	

EROSION CONTROL					
Station	Side	L-9 Seeding and Protecting Type "A" Sq. Yds.	L-10 Sodding Sq. Yds.	I-14 Paved Gutter as per plan Type 2 Lin. Ft.	
From	To				
28+00	43+00	R&L 6993			
28+40		Lt. 9			
28+40		Rt. 9			
31+52	31+30	Rt. 61			
36+51	38+25	Lt. 174			
38+98		Lt. 9			
39+29	40+10	Lt. 81			
40+10	40+50	Lt. 40			
40+50	42+40	Lt. 190			
42+40	42+90	Lt. 50			
28+05	28+20	Rt. 12			
Total		6993	371	90	174

SIDEWALK & STEPS					
Station	Side	I-13 4" Concrete Sidewalk Sq. Ft.	I-13 Concrete Steps 6" Rise 12" Tread Integral Wall Lin. Ft.		
From	To				
28+00	43+00	Rt. 6000			
31+12		Rt. 20			
36+20		Rt. 12			
Deduct at Drives		-288			
Total		5712	32		

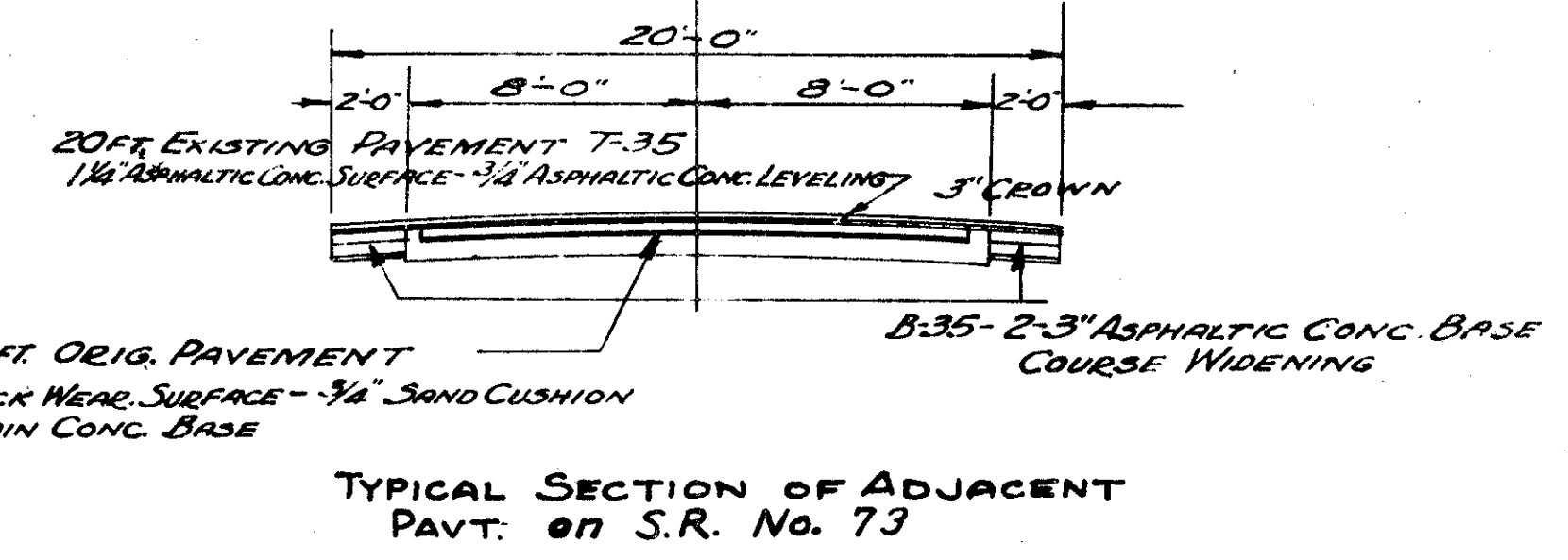
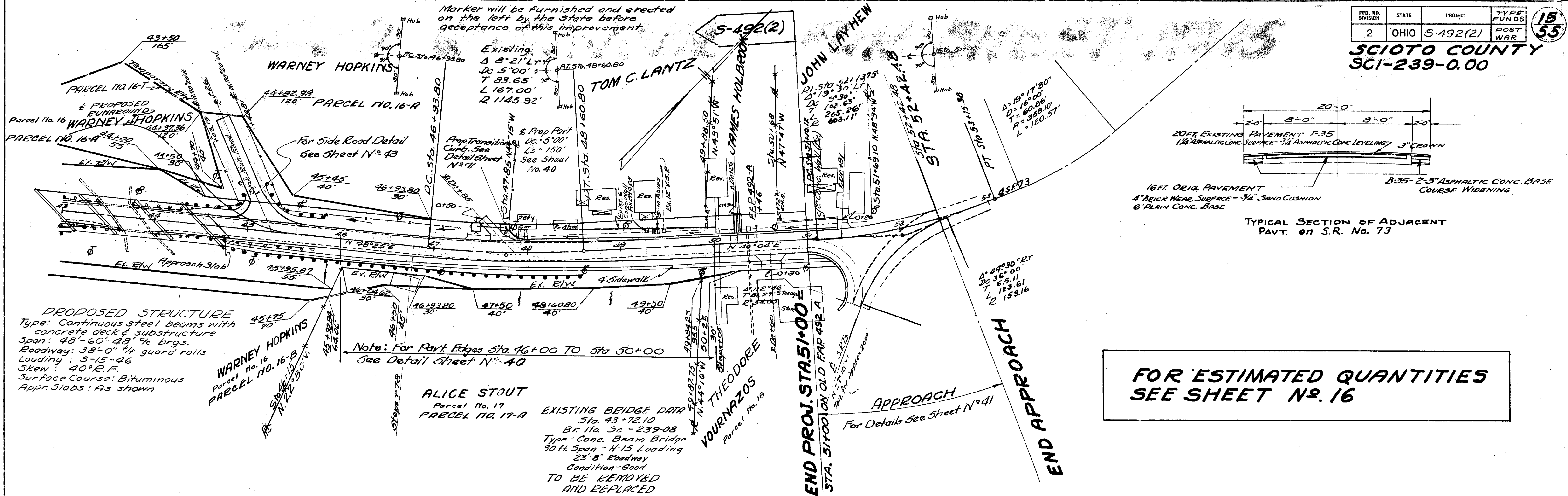
GUARD RAIL					
Station	Side	I-15 Guard Rail Lin. Ft.	I-15 Guard Rail Removed & Stored Lin. Ft.		
From	To				
28+22.5	29+85	Lt. 125.0			
28+37.5	30+25	Rt. 187.5			
32+00	33+25	Rt. 125.0			
39+97.41	42+75.03	Lt. 277.62			
41+71.83	43+00	Rt. 128.17			
29+68	29+92	Lt. 24			
29+76	30+02	Rt. 24			
40+39	43+00	Lt. 261			
41+78	43+00	Rt. 121			
Total		843.29	430		

DRAINAGE												
Station	Side	E-12 Pipe Removed & Disposed of Lin. Ft.	I-2 Pipe for Storm Sewers Lin. Ft.	I-2 Pipe for Storm Sewers Under Approach Lin. Ft.	I-3 Pipe for Roadway Drainage Lin. Ft.	I-3 Pipe for Roadway Drainage Under Appro. Lin. Ft.	I-5 Pipe Specials Each	I-8 Catch Basins Each	I-8 Side Ditch Inlet Each	I-16 Catch Basins Abandoned Each	Remarks	
From	To	12" 24"	12" 24" 21"	24" 12"	12"	12" 30" 45" 60"	12" 18" 24" 30"	9" 12" 15" 18"				
28+00	28+40	Rt. 30				40						
28+00	28+40	Lt. 173	4	105	10	90						
29+42	31+38	Lt. 173	4	105	10	90						
29+66.5	30+56.5	Rt. 70			20							
33+00		Lt. 70			20							
34+20		Lt. 1										
36+45		Lt. 1										
Total		30	173	4	105	10	90	148	20	1	1	1

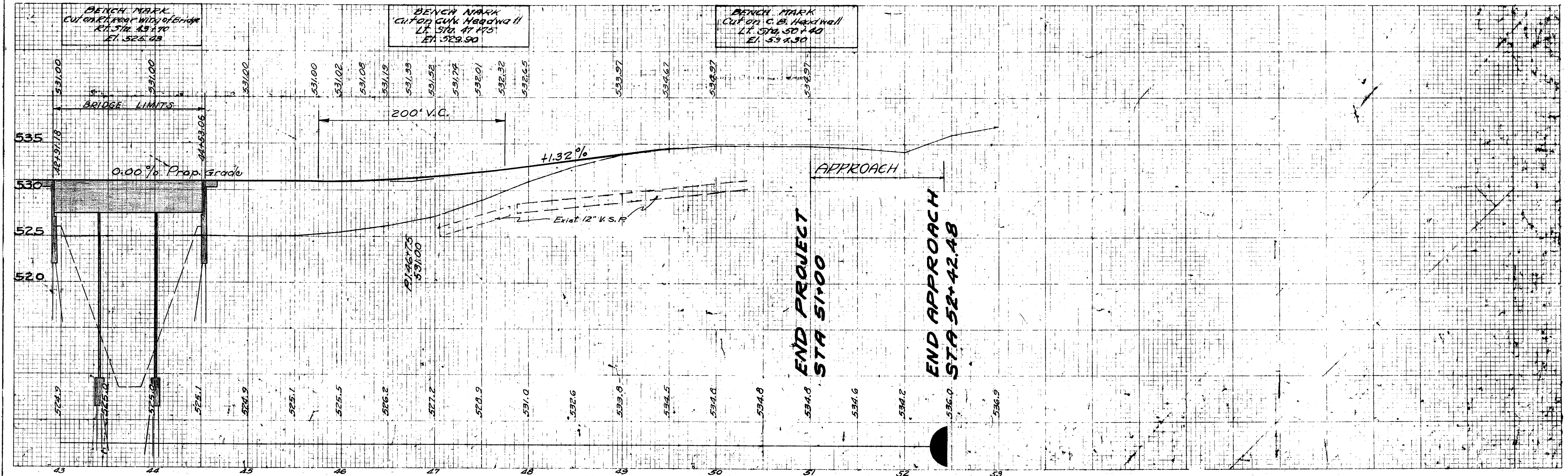
PAVEMENT REMOVAL			
Station	Side	E-8 Removal & Disposal of Exist. Pavt. 6" Conc. Base 1" Sand 3" Brick Sq. Yds.	
From	To		
28+00	28+50	100	
33+00	39+75	1350	
Total		1450	

**STRUCTURES 20' SPAN & UNDER**  
For Estimated Quantities See Sheet N<sup>o</sup> 5





**FOR ESTIMATED QUANTITIES SEE SHEET No. 16**





# ESTIMATED QUANTITIES FOR SHEET No 15

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	5-492(2)	POST WAR

16  
53

SCIOTO COUNTY  
SCI-239-0.00

DRIVES & APPROACHES				
Station	Side	I-17 Side Appr. Mail Box Turnouts & Berm Maint. Cu. Yds.	I-13 6" Conc. Sidewalks At Drives Sq. Yds.	See Sheet No.
47+85 Drive	Lt.	4.1		
* 50+26	Lt.			
51+37	Lt.	1.4		
50+60	Rt.	3.6	80	
45+26 Rd.	Lt.			43
Totals		9.1	80	

\* Quantities carried to Pavement Calculations

EROSION CONTROL				
Station To Station	Side	L-9 Seeding & Protecting Type "A" Sq. Yds.	L-10 Sodding Sq. Yds.	
43+00 to 51+00	Rt.	3719		
47+85	Lt.		18	
Totals		3719	18	

DRAINAGE			
Station	Side	S-1 Conc. for Plugging Pipe Cu. Yds.	
47+83		0.1	
Total		0.1	

GUARD RAIL				
Station To Station	Side	I-15 Guard Rail Removed & Stored Lin. Ft.	I-15 Guard Rails Lin. Ft.	
43+00 to 43+32	Lt.	32		
43+00 to 45+50	Rt.	60		
43+76 to 44+26	Lt.	42		
44+00 to 45+76	Rt.	176		
43+00 to 43+07.33	Rt.		7.33	
44+36.91 to 44+97.41	Lt.		60.50	
44+69.21 to 46+71.83	Rt.		202.62	
45+29.5 to 45+79.5	Lt.		50.00	
46+84.33 to 48+59.33	Rt.		175.00	
Totals		310	495.45	

SIDEWALKS				
Station To Station	Side	I-13 4" Sidewalk Sq. Ft.	I-13 Conc. Steps 6" Rise 12" Tread Lin. Ft.	
46+78	Rt.		36	
50+05	Rt.		16	
43+00 to 51+21	Rt.	3284		
Deduct for Drives		-80		
Deduct for Bridge		-647.32		
Totals		2556.68	72	

PAVEMENT REMOVAL		
From	To	E-8 Removal & Disposal of Exist. Pavt. 6" Conc. Base, 1" sand 3" Brick Sq. Yd.
47+50	49+00	300
Total		300

**APPROACH SLABS**  
See Sheet No. 5



# SUPERELEVATION TABLES

*STA. 4+00 To STA. 8+50*

Elev. Lt. Edge	Deduct From £	Width	Station	Profile Elevation	Width	Super Elev.	Elev. Rt. Edge
531.78	0.17	11'	4+00	531.95	11'	0.00	531.78
531.89			+50	532.06		0.01	531.90
531.96			+50	532.13			532.05
532.03			+75	532.20			532.23
532.13			5+00				532.50
532.29			+25				532.83
532.48			+50				533.12
532.62			+75				533.32
532.67			6+00			0.72	533.38
532.60			+25			0.72	533.32
532.42			+50			0.72	533.13
532.77			+75				532.83
531.95			7+00	532.08			532.48
531.66			+25	531.83			532.12
531.44			+50	531.61			531.77
531.25			+75	531.42			531.46
531.10			8+00	531.27			531.18
530.88			+25	531.15		0.02	531.00
530.90	0.17	11'	+50	531.07	11'	0.00	530.90

*STA. 15+00 To STA. 20+00*

Elev. Lt. Edge	Deduct From £	Width	Station	Profile Elevation	Width	Super Elev.	Elev. Rt. Edge
530.83	0.17		15+00	531.00		0.00	530.83
530.83			+25	531.00			530.83
530.83			+50	531.00			530.91
530.83			+75	531.00			531.13
530.83			16+00	531.00			531.44
530.83			+25	531.00			531.74
530.83			+50	531.00			532.04
530.83			+50	531.00			532.15
530.83			+65	531.00			532.23
530.83			+75	531.00			532.34
530.83			17+00	531.00			532.57
530.83			+25	531.00			532.65
530.83			+50	531.00			532.65
530.83			+75	531.00			532.65
530.83			18+00	531.00			532.57
530.83			+25	531.00			532.54
530.83			+50	531.00			532.04
530.83			+75	531.00			531.74
530.83			19+00	531.00			531.44
530.83			+25	531.00			531.13
530.83			+50	531.00			530.91
530.83			+75	531.00			530.83
530.83			20+00	531.00			530.83

*STA. 37+75 To STA. 42+75*

Elev. Lt. Edge	Super Elev.	Width	Station	Profile Elevation	Width	Deduct From £	Elev. Rt. Edge
532.64			37+75				532.64
532.75			38+00				532.65
532.86			+25				532.34
532.98			+50				532.18
533.10			+75				532.04
533.20			39+00				531.88
533.28			+25				531.75
533.35			+50				531.60
533.37			+75				531.44
533.30			40+00				531.28
533.17			+25				531.14
533.06			+50				531.03
533.94			+75				530.94
532.81			41+00				530.88
532.60			+25				530.83
532.31			+50				530.83
531.93			+75				530.83
531.57			42+00				530.83
531.26			+25				530.83
530.98			+50				530.83
530.83			+75				530.83

*STA. 8+50 To STA. 12+75*

Elev. Lt. Edge	Super Elev.	Width	Station	Profile Elevation	Width	Deduct From £	Elev. Rt. Edge
530.83		11'	8+50	530.07	11'	0.17	530.83
530.86			+75	531.02			530.83
530.95			9+00	531.00			530.83
531.06			+25				530.83
531.18			+50				530.83
531.31			+75				530.83
531.43			10+00				530.83
531.52			+25				530.83
531.55			+50				530.83
531.52			11+00				530.83
531.43			+25				530.83
531.31			+50				530.83
531.18			+75				530.83
531.06			12+00				530.83
530.95			+25				530.83
530.86			+50				530.83
530.83		11'	+75	531.00	11'		530.83

*STA. 34+00 To STA. 37+75*

Elev. Lt. Edge	Deduct From £	Width	Station	Profile Elevation	Width	Super Elev.	Elev. Rt. Edge
530.88			34+00				530.88
530.94			+25				531.18
531.03			+50				531.51
531.14			+75				531.87
531.28			35+00				532.25
531.44			+25				532.65
531.63			+50				533.05
531.82			+75				533.27
531.98			36+00				533.45
532.12			+25				533.47
532.23			+50				533.38
532.32			+75				533.25
532.38			37+00				533.02
532.45			+25				532.83
532.52			+50				532.70
532.64			+75				532.64

*STA. 46+00 To STA. 50+00*

Elev. Lt. Edge	Deduct From £	Width	Station	Profile Elevation	Width	Super Elev.	Elev. Rt. Edge
530.85			46+00				530.85
530.91			+25				531.13
531.02			+50				531.47
531.16			+75				531.83
531.35			47+00				532.26
531.57			+25				532.77
531.84			+50				533.32
532.15			+75				533.85
532.48			48+00				534.23
532.81			+25				534.45
533.14			+50				534.55
533.47			+75				534.65
533.80			49+00				534.75
534.15			+25				534.82
534.46			+50				534.87
534.65			+75				534.85
534.80			50+00				534.80

*STA. 26+00 To STA. 32+00*

Elev. Lt. Edge	Super Elev.	Width	Station	Profile Elevation	Width	Deduct From £	Elev. Rt. Edge
530.83			26+00				530.83
530.83			+25				530.83
530.89			+50				530.83
531.07			+75				530.83
531.32			27+00				530.83
531.57			+25				530.83
531.82			+50				530.83
532.07			+75				530.83
532.32			28+00				530.83
532.57			+25				530.83
532.63			+32				530.83
532.74			+50				530.83
532.80			+65				530.83
532.82			+75				530.83
532.82			29+00				530.83
532.82			+25				530.83
532.81			+33				530.83
532.74			+50				530.83
532.57			+75				530.83
532.32			30+00				530.83
532.07			+25				530.83
531.82			+50				530.83
531.57			+75				530.83
531.32			31+00				530.83
531.07			+25				530.83
530.89			+50				530.83
530.83			+75				530.83
530.83			32+00				530.83

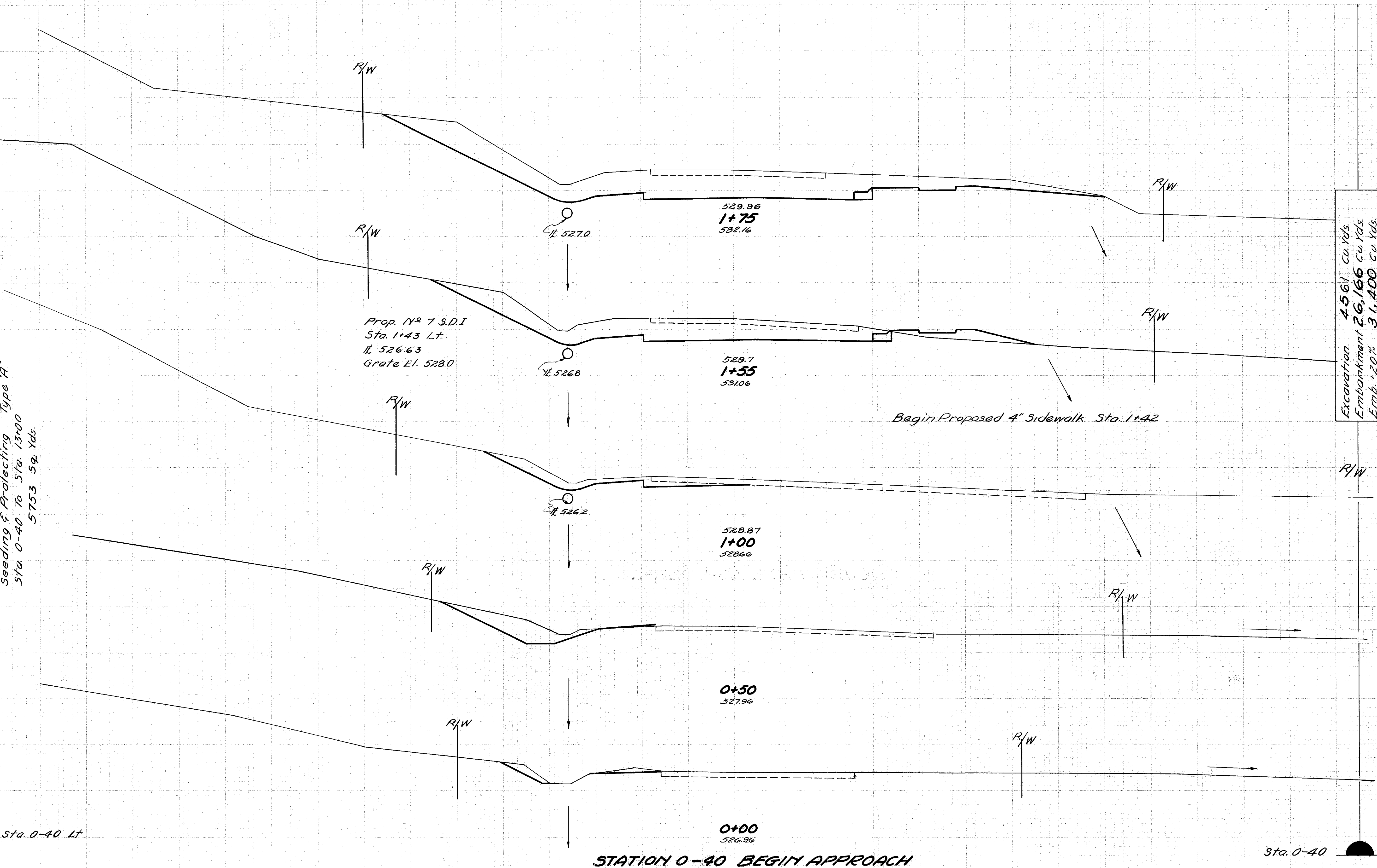
*STA. 4+00 To STA. 8+50*

Elev. Lt. Edge	Super Elev.	Width	Station	Profile Elevation	Width	Deduct From £	Elev. Rt. Edge
530.83			4+00				530.83
530.83			+25				530.87
530.83			+50				530.95
530.83			+75				531.07
530.83			5+00				531.14
530.83			+25				531.31
530.83			+50				531.43
530.83			+75				531.52
530.83			6+00				531.55
530.83			+25				531.55
530.83			+50				531.55
530.83			+75				531.52
530.83			7+00				531.43
530.83			+25				531.31
530.83			+50				531.14
530.83			+75				531.07
530.83			8+00				530.95
530.83			+25				530.87
530.83			+50				530.83



**SCIOTO COUNTY  
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Seeding	
End Width	Sq. Yds.
45	11
57	23
28	150
26	136
23	26
0	0



End Area		Volume	
Cut	Fill	Cut	Fill
152	0		
85	4		
76	10		
91	10		
12	0		
25	0		
15	0		
17	0		
4	0		
3	0		
0	0		

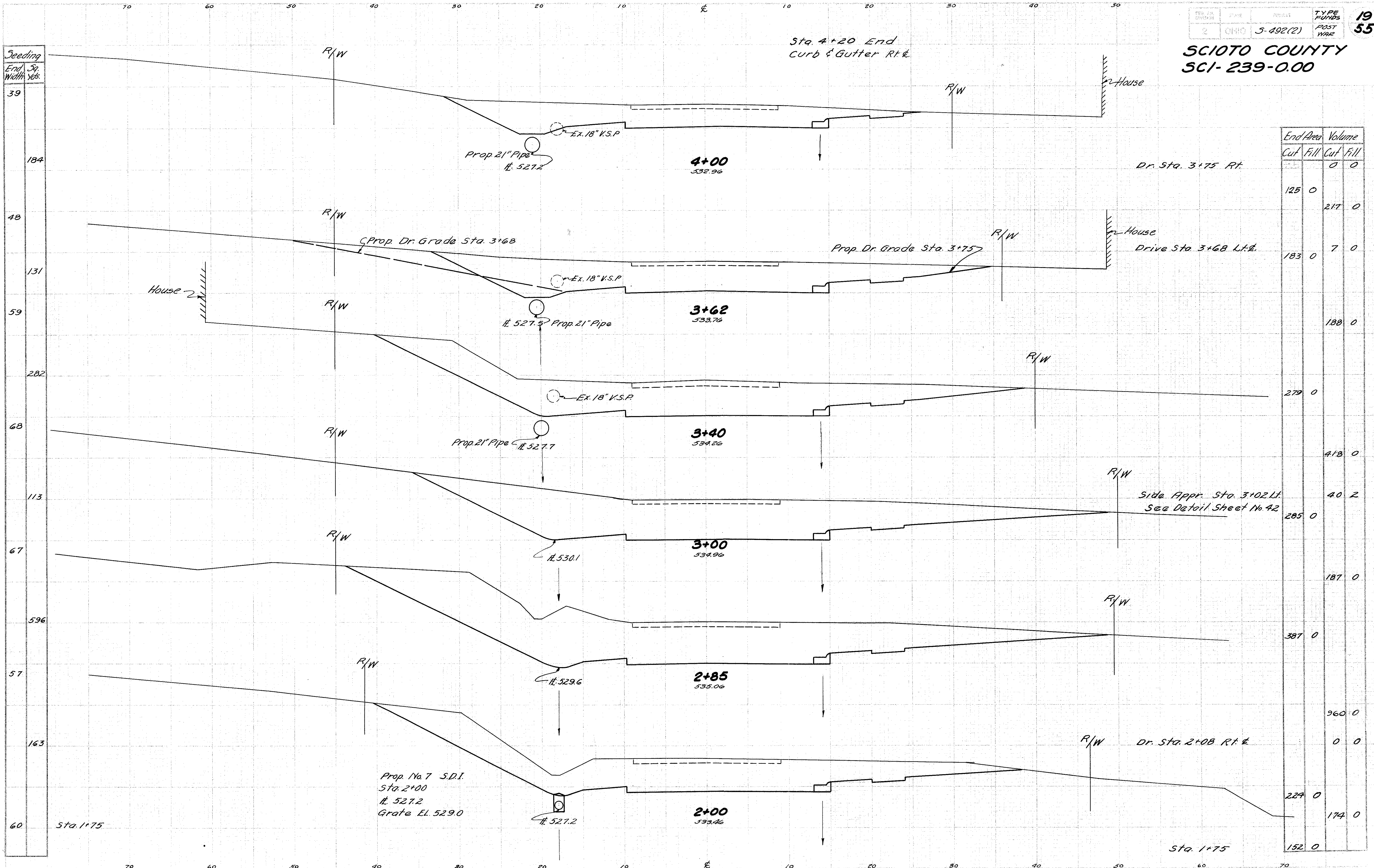
Excavation 4561 Cu. Yds.  
Embankment 26,166 Cu. Yds.  
Emb. + 20% 31,400 Cu. Yds.

STATION 0-40 BEGIN APPROACH

STA. 0+00 TO STA. 1+75



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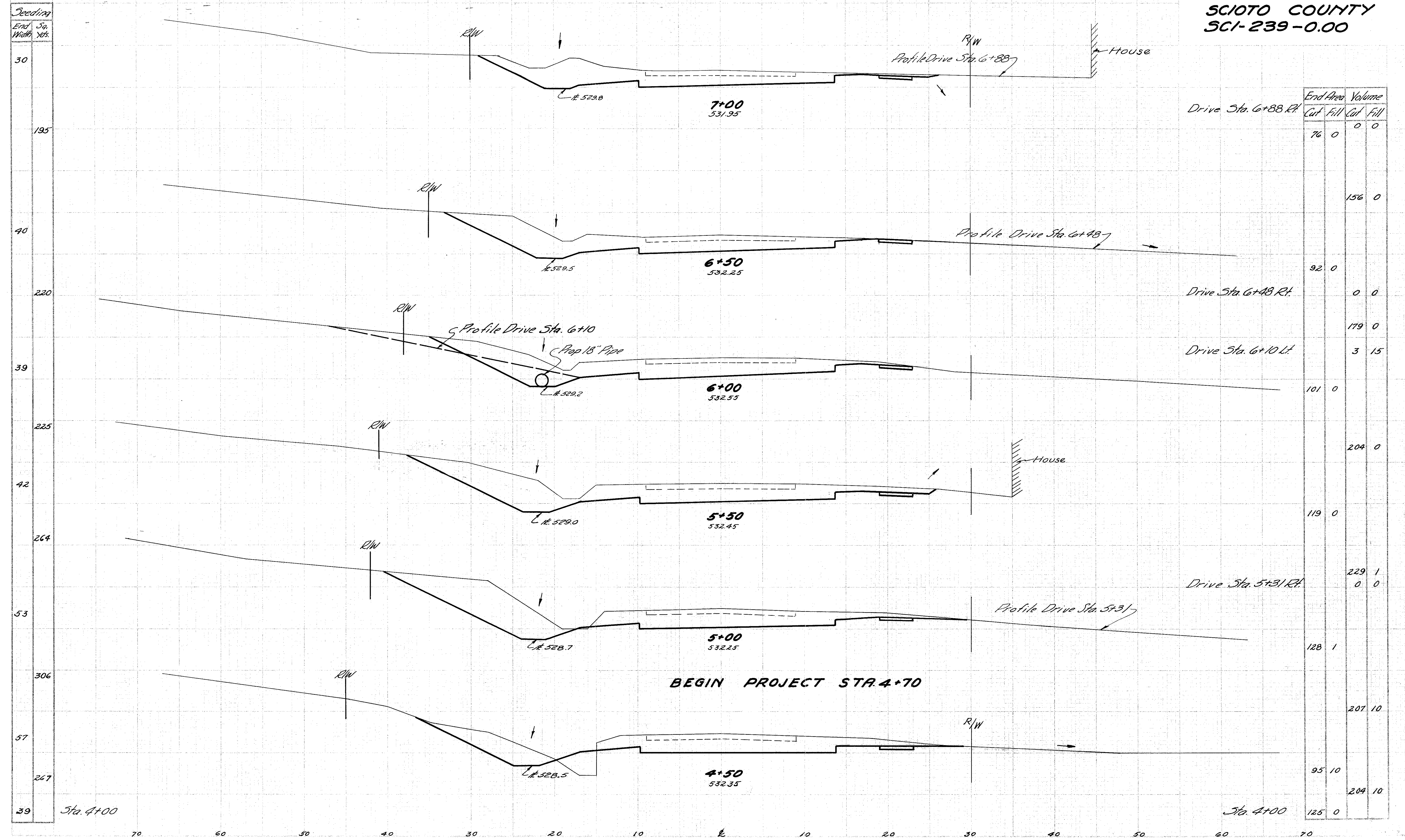


Sta.	End Area		Volume	
	Cut	Fill	Cut	Fill
4+00	125	0	0	0
3+75	183	0	217	0
3+62	279	0	188	0
3+40	285	0	418	0
3+00	187	0	40	2
2+85	387	0	187	0
2+00	163	0	960	0
1+75	229	0	0	0
1+75	152	0	174	0

STA. 2+00 TO STA. 4+00



**SCIOTO COUNTY**  
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Station	End Area		Volume	
	Cut	Fill	Cut	Fill
Drive Sta. 6+88 Rt.	76	0	0	0
Drive Sta. 6+48 Rt.	92	0	156	0
Drive Sta. 6+48 Lt.	0	0	0	0
Drive Sta. 6+10 Lt.	101	0	179	0
Drive Sta. 5+31 Rt.	119	0	229	1
Drive Sta. 5+31 Lt.	128	1	0	0
Sta. 4+50	125	0	207	10
Sta. 4+00	95	10	204	10
Sta. 4+00	125	0	0	0

**BEGIN PROJECT STA. 4+70**

**STA. 4+50 TO STA. 7+00**



Seeding  
End Sta.  
Wall Sta.

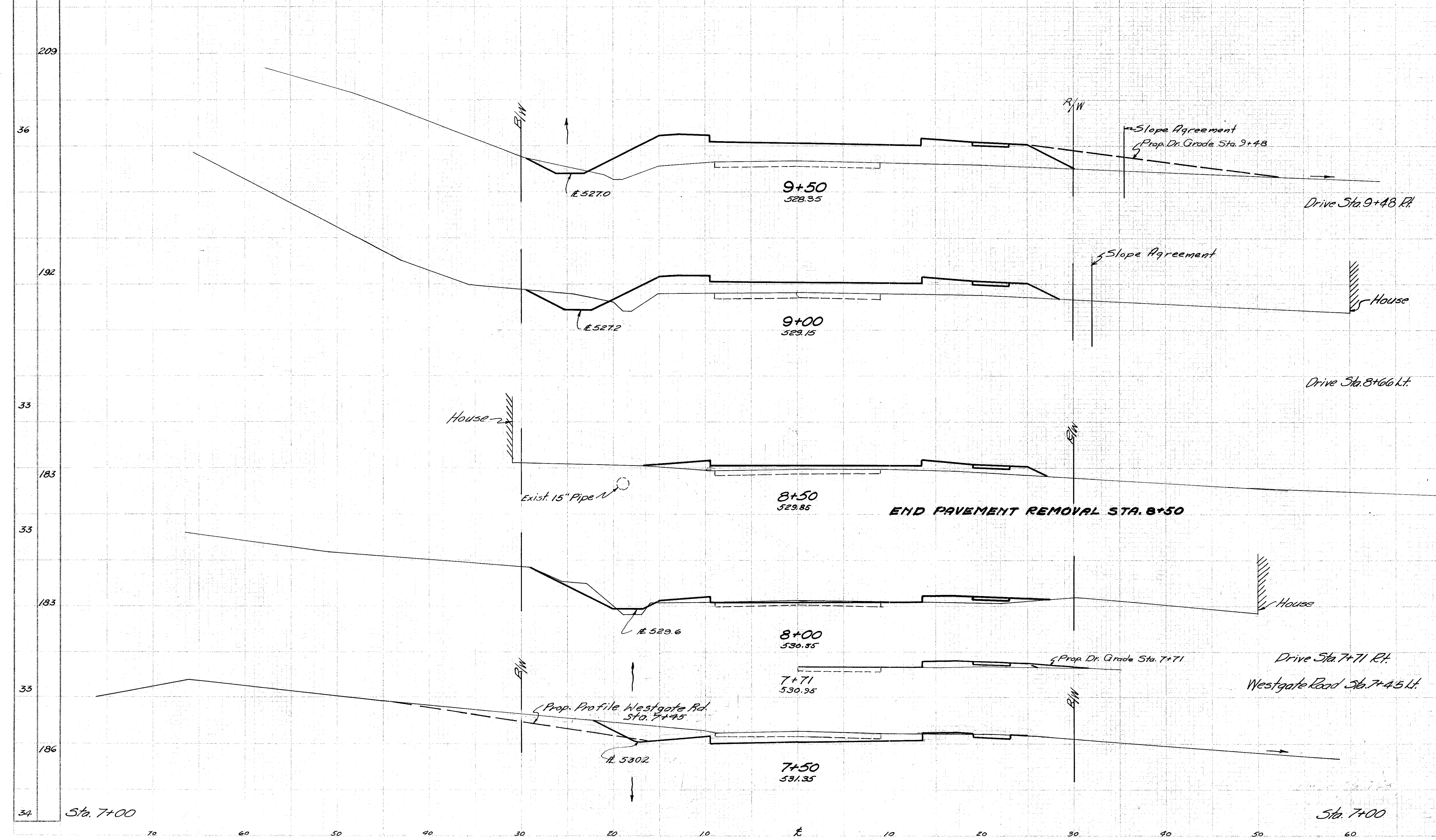
39  
209  
36  
192  
33  
183  
33  
183  
33  
186  
34

Sta. 7+00

Sta. 7+00

STA. 7+50 TO STA. 9+50

End Area		Volume	
Cut	Fill	Cut	Fill
3	116	0	14
		12	170
10	68		
		0	0
		9	92
0	31		
		5	40
5	13		
		0	1
		23	8
		14	1
36	1		
		104	1
76	0		



R/W

R/W

R/W

R/W

House

House

House

Drive Sta. 7+71 Rt.

Westgate Road Sta. 7+4.5 Lt.

Drive Sta. 8+66 k.t.

Drive Sta. 9+48 Rt.

9+50  
528.35

9+00  
529.15

8+50  
529.85

8+00  
530.55

7+71  
530.95

7+50  
531.35

E. 527.0

E. 527.2

Exist. 15" Pipe

E. 529.6

Prop. Profile Westgate Rd.  
Sta. 7+45

E. 530.2

Slope Agreement  
Prop. Dr. Grade Sta. 9+48

Slope Agreement

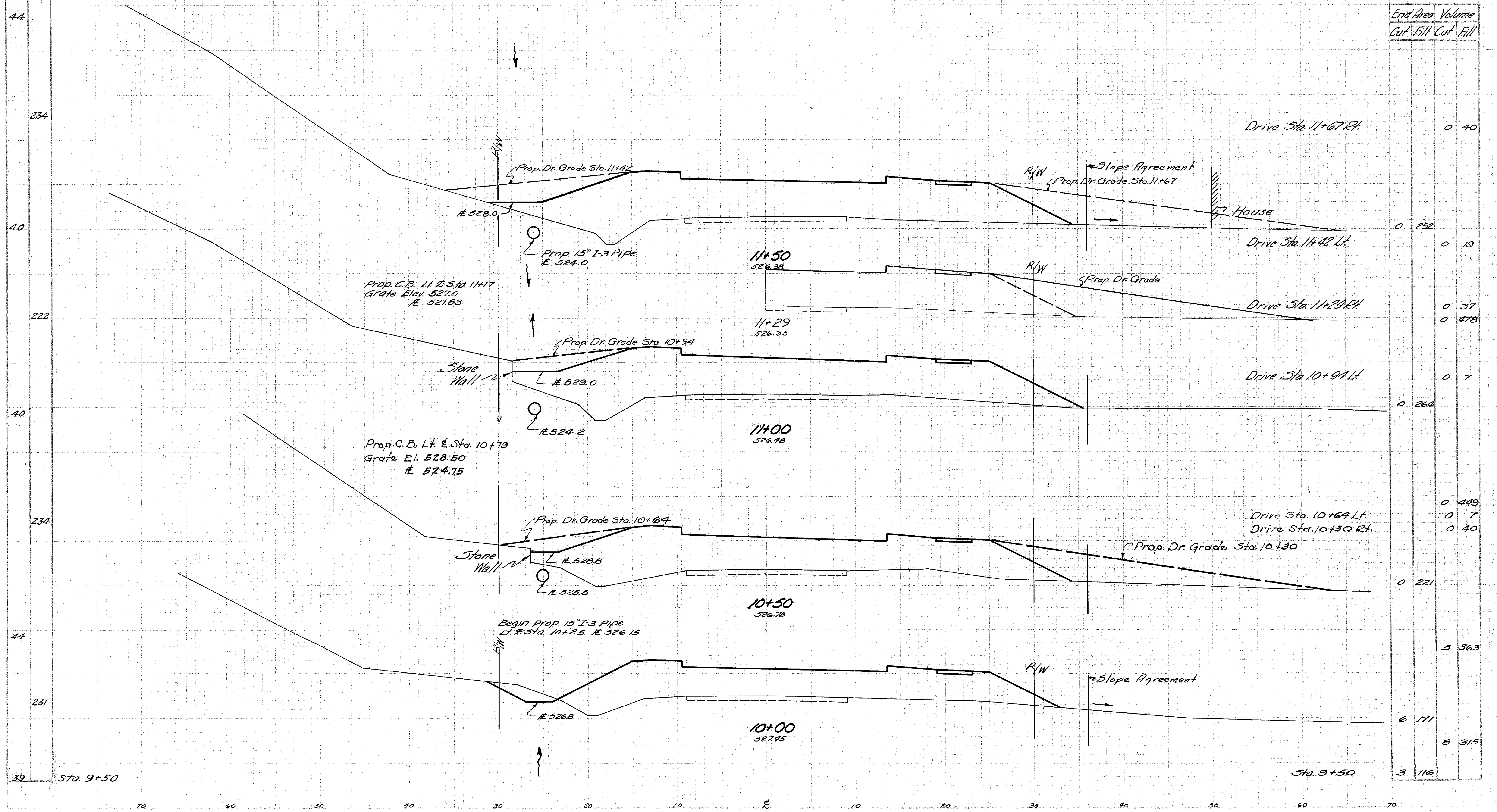
END PAVEMENT REMOVAL STA. 8+50

Prop. Dr. Grade Sta. 7+71



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Seeding	END WIDTH	SA. YDS.

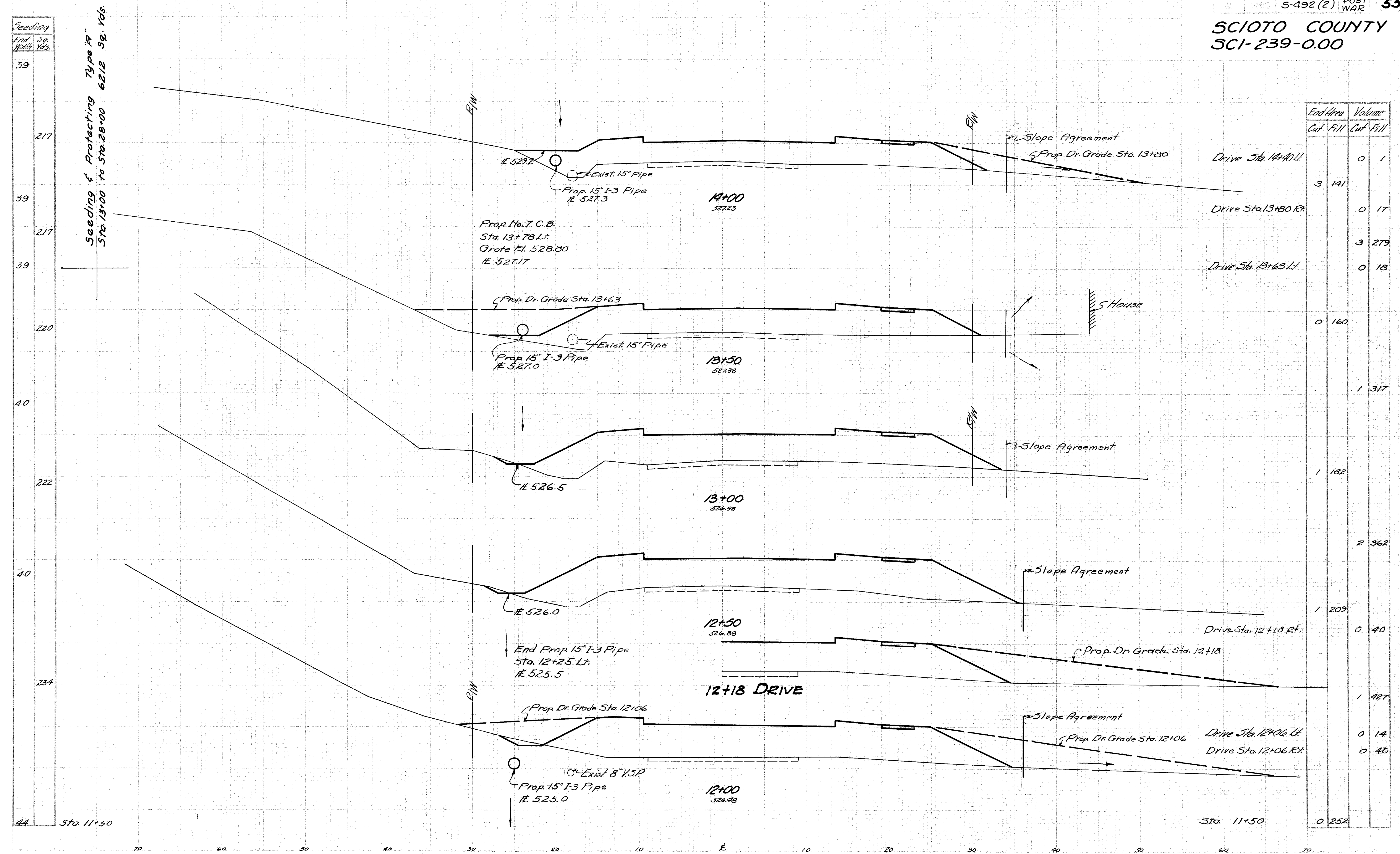


End Area		Volume	
Cut	Fill	Cut	Fill
		0	40
0	252	0	19
		0	37
		0	478
		0	7
0	264		
		0	449
		0	7
		0	40
		0	221
		5	363
6	171		
		8	315
3	116		

STA. 10+00 TO STA. 11+50



SCIOTO COUNTY  
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End Area		Volume	
Cut	Fill	Cut	Fill
		0	1
3	141		
		0	17
		3	279
		0	18
0	160		
		1	317
1	182		
		2	362
1	209		
		0	40
		1	427
		0	14
		0	40
0	252		

STA. 12+00 TO STA. 14+00

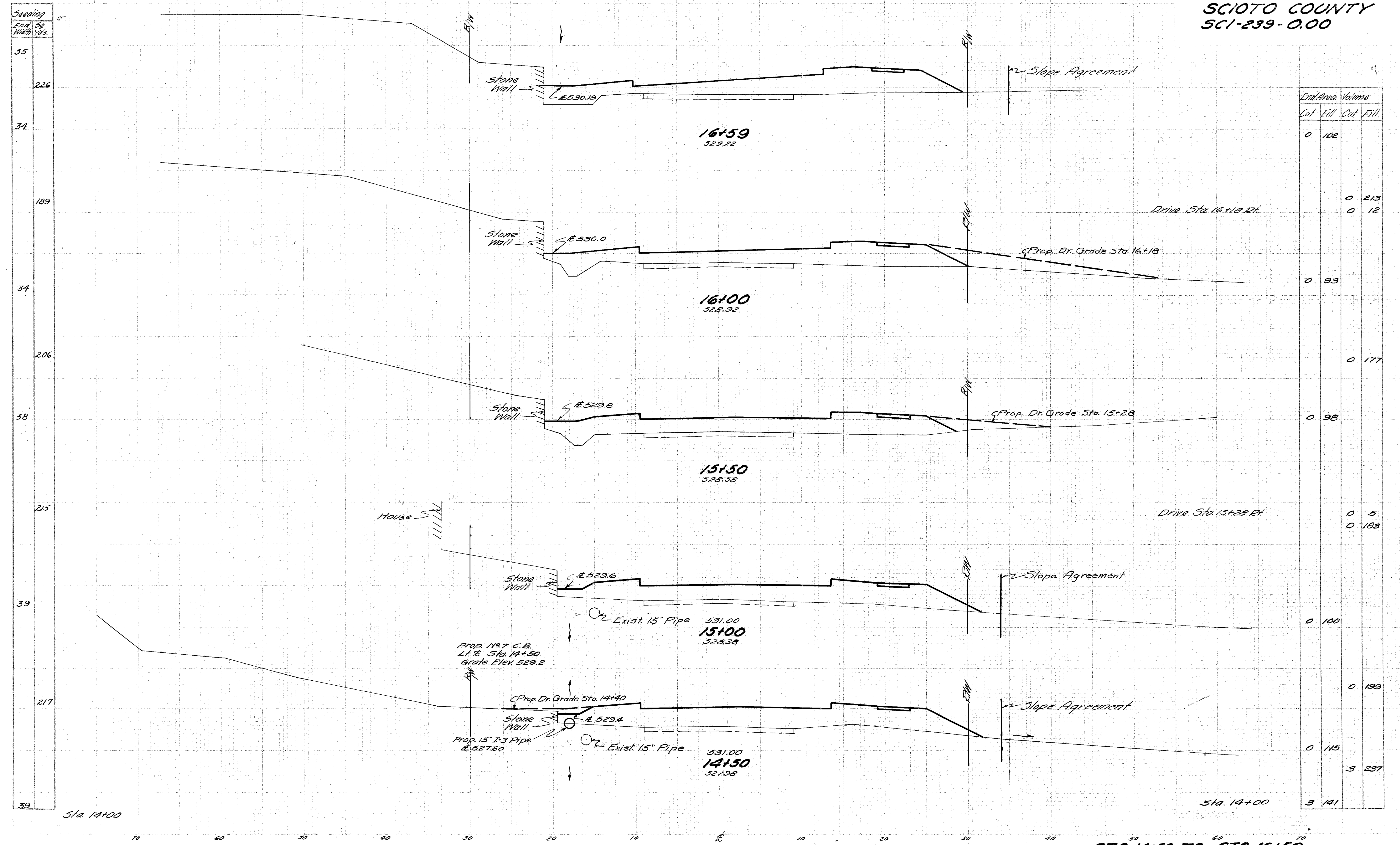
Seeding & Protecting Type "A" Sta. 13+00 to Sta. 28+00 6212 Sq. Yds.

End Width	Sq. Yds.
39	
217	
39	
217	
39	
220	
40	
222	
40	
234	
44	

Sta. 11+50



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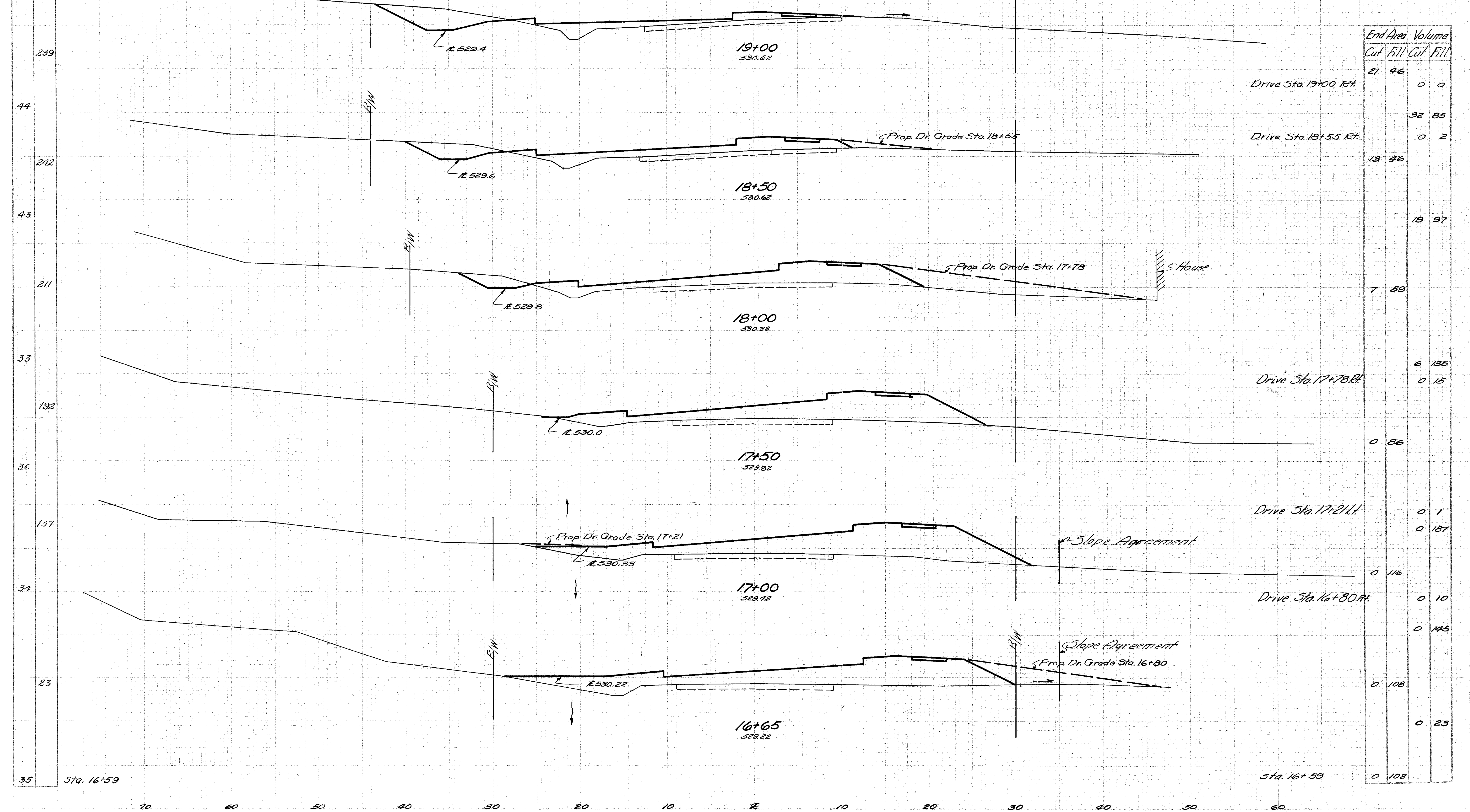
End Area	Volume	
	Cut	Fill
0	102	
0		213
0		12
0	93	
0		177
0	98	
0		5
0		183
0	100	
0		199
0	115	
3		237
3	141	

STA 14+50 TO STA 16+59



SCIOTO COUNTY  
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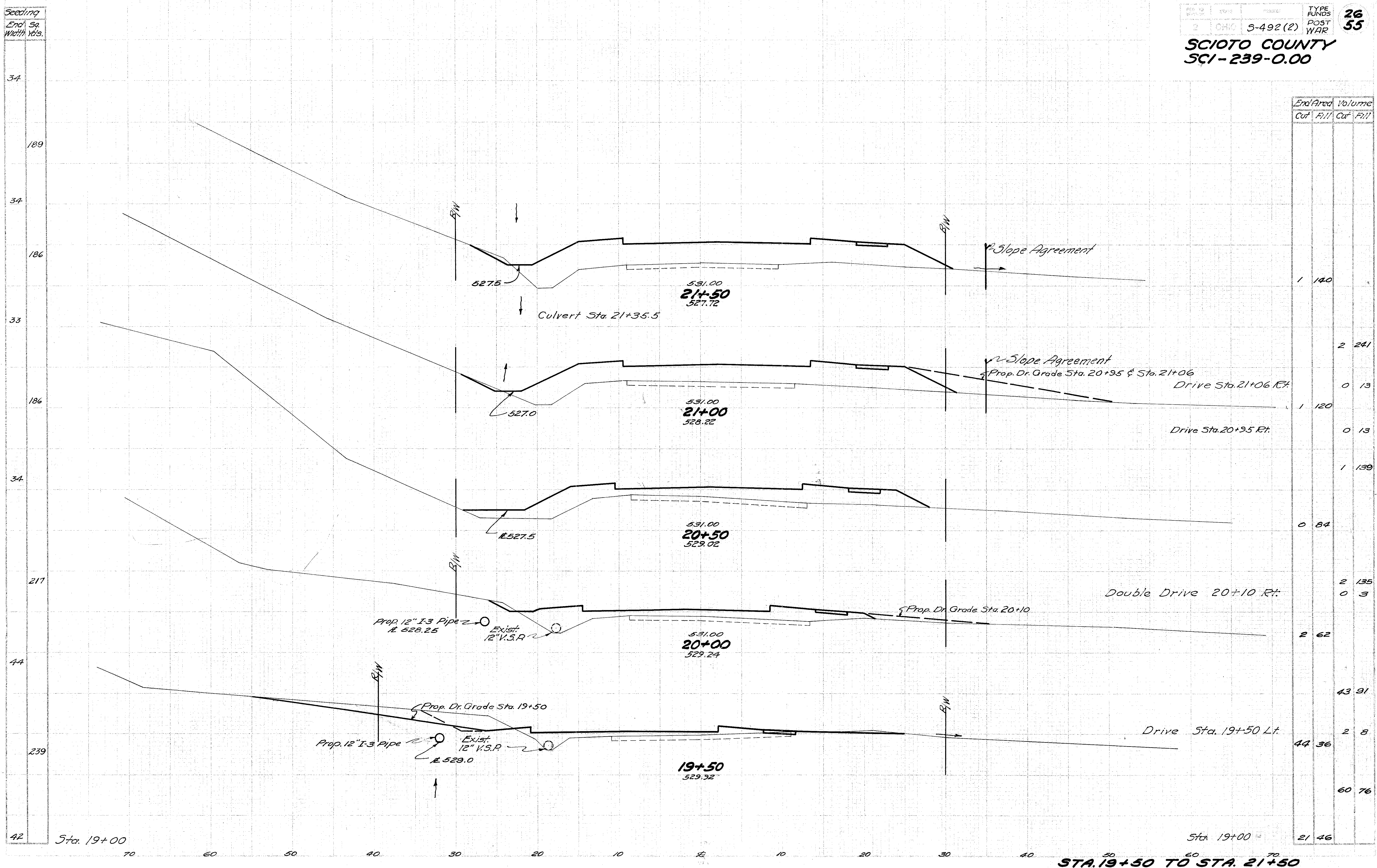
Seeding	
End Width	Sp. Yds.
42	



End Area		Volume	
Cut	Fill	Cut	Fill
21	46	0	0
		32	85
		0	2
13	46		
		19	97
7	59		
		6	135
		0	15
0	86		
		0	1
		0	187
0	116		
		0	10
		0	145
0	108		
		0	23
0	102		

STA. 16+65 TO STA. 19+00





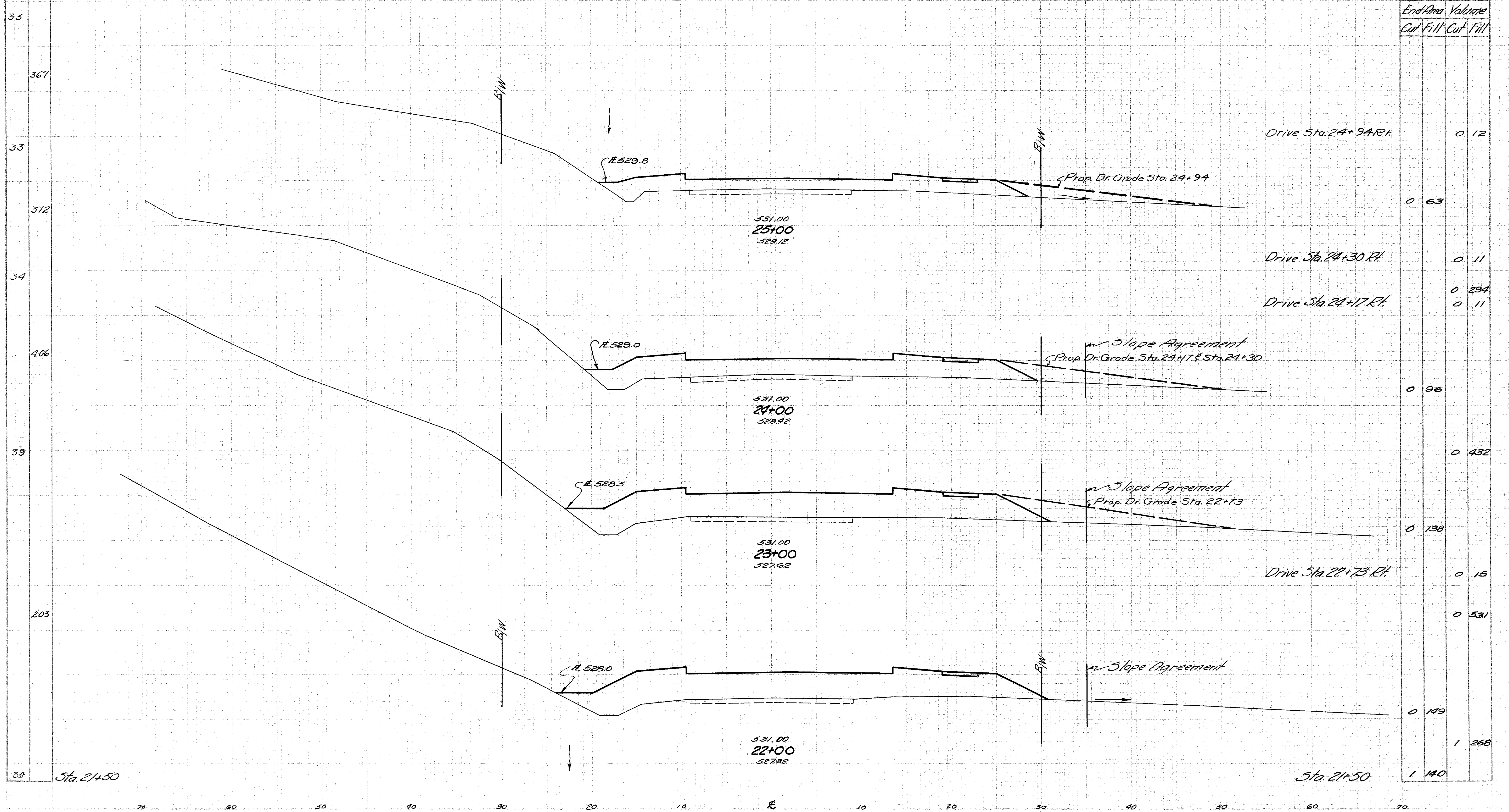
End Area		Volume	
Cut	Fill	Cut	Fill
1	140		
		2	241
		0	13
1	120		
		0	13
		1	139
0	84		
		2	135
		0	3
2	62		
		43	91
		2	8
44	36		
		60	76
21	46		

STA. 19+50 TO STA. 21+50



**SCIOTO COUNTY**  
**SCI-239-0.00**

Seeding  
End Width  
Sq. Yds.



End Area		Volume	
Cut	Fill	Cut	Fill
0	63	0	12
0	11	0	11
0	294	0	11
0	96	0	432
0	138	0	15
0	149	1	531
1	140	1	268

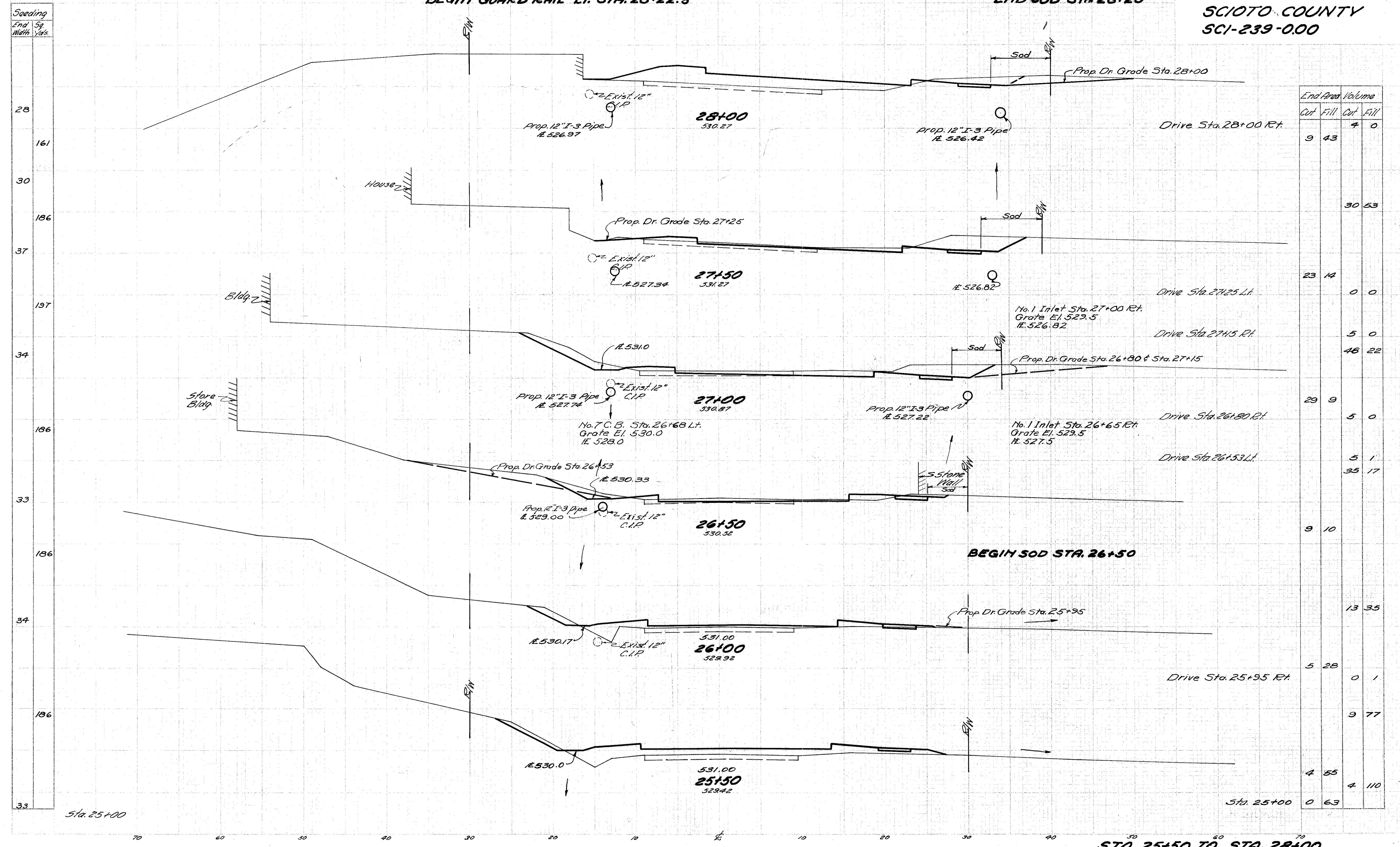
STA 22+00 TO STA. 25+00



SCIOTO COUNTY  
SCI-239-0.00

BEGIN GUARD RAIL LT. STA. 28+22.5

END SOD STA 28+20

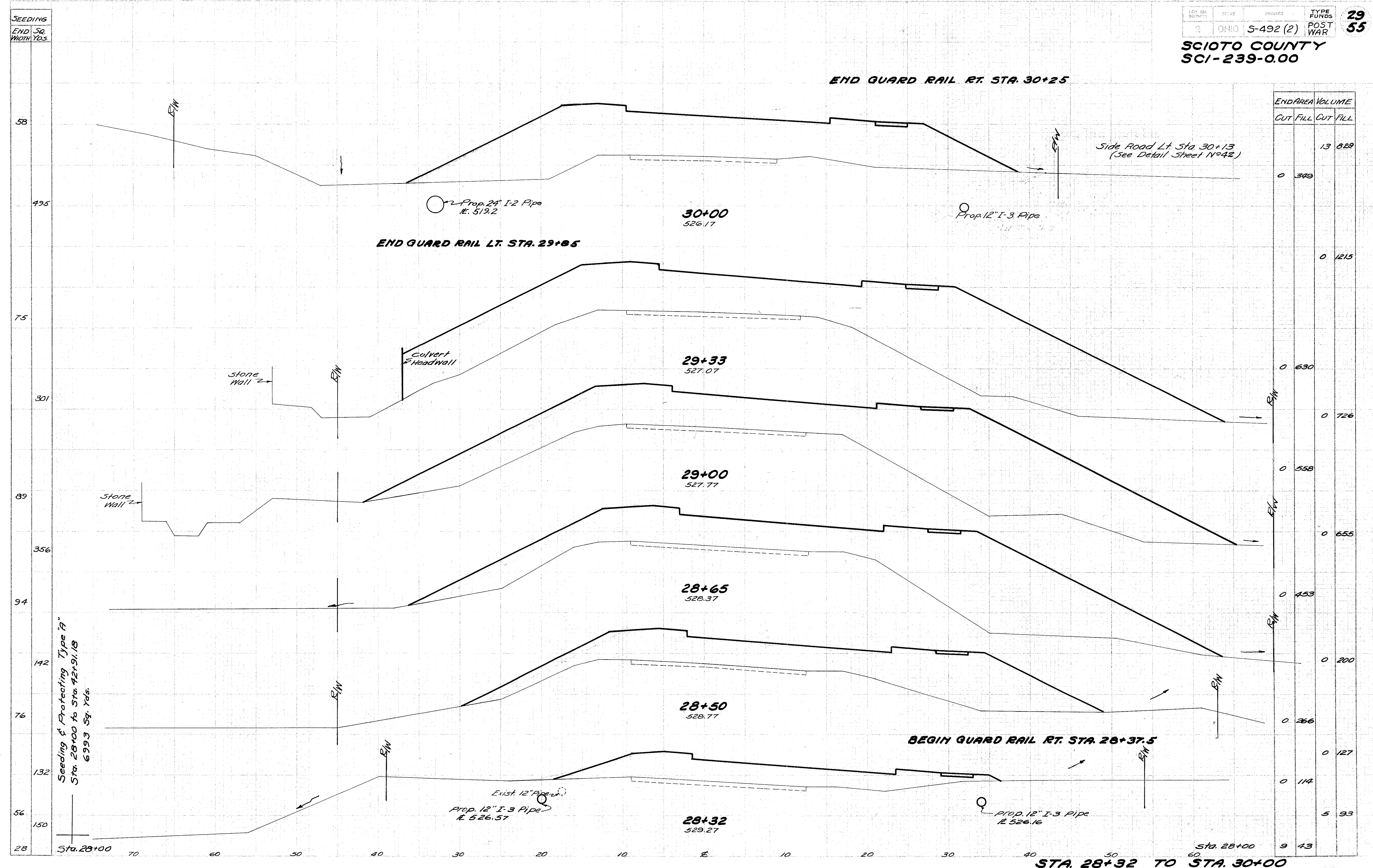


End Area		Volume	
Cut	Fill	Cut	Fill
9	43	4	0
		30	53
23	14	0	0
		5	0
		48	22
29	9	5	0
		5	1
		35	17
9	10		
		13	35
5	28	0	1
		9	77
4	55	4	110
0	63		

STA. 25+50 TO STA. 28+00



SCIOTO COUNTY  
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END STA.	AREA		VOLUME	
	CUT	FILL	CUT	FILL
30+25	0	349	13	829
29+85	0	1215	0	1215
29+33	0	630	0	726
29+00	0	558	0	655
28+65	0	453	0	200
28+50	0	266	0	127
28+32	0	114	5	93
28+00	9	43		

SEEDING  
END Sta.  
WIDTH Yds.

58  
495  
75  
301  
89  
356  
94  
142  
76  
132  
56  
150  
28

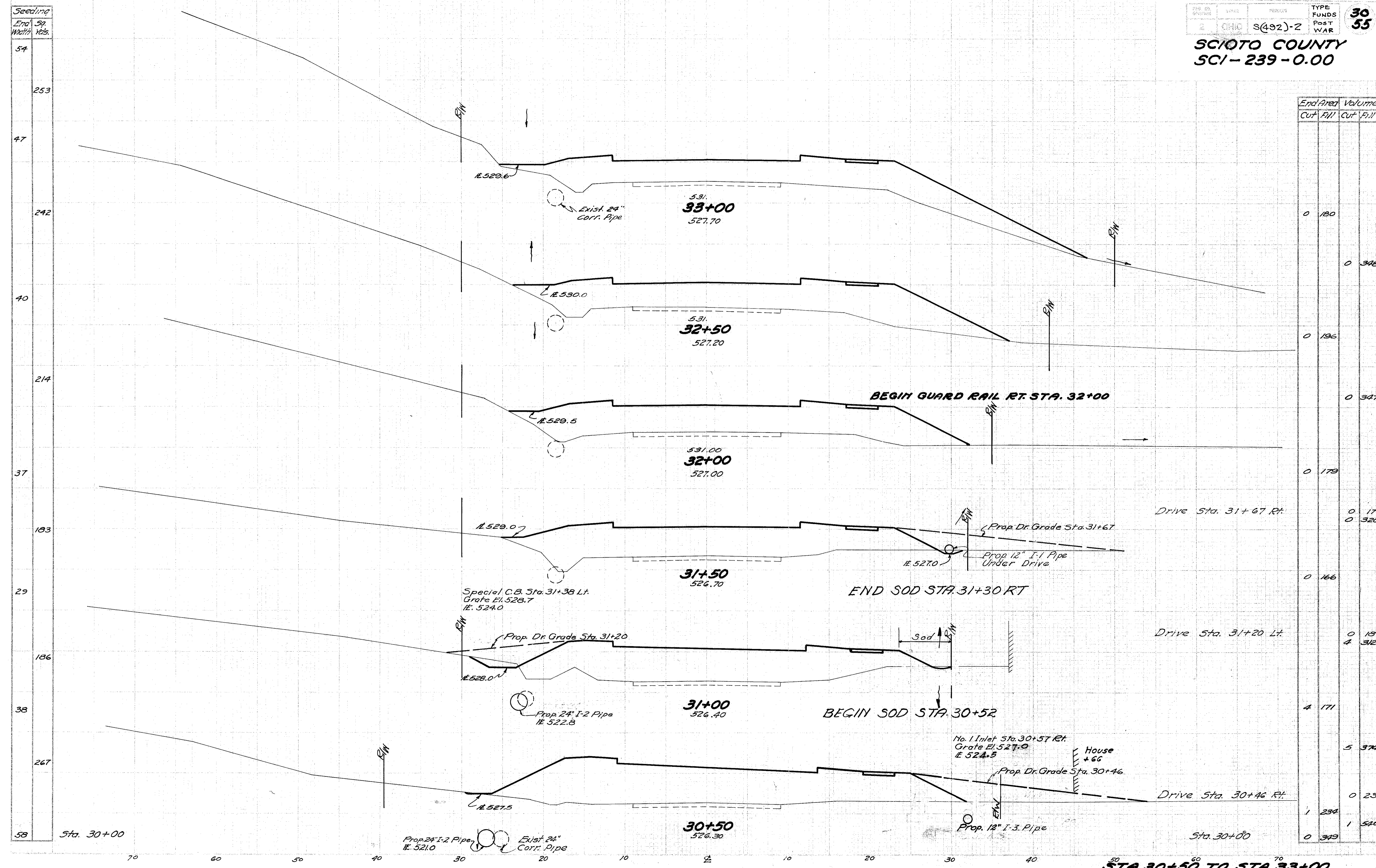
Sta. 28+00 70 60 50 40 30 20 10 0 10 20 30 40 50 60 Sta. 28+00

Seeding & Protecting Type "A"  
Sta. 28+00 to Sta. 28+91.18  
6993 Sq. Yds.

STA. 28+32 TO STA. 30+00



**SCIOTO COUNTY**  
**SCI-239-0.00**



End Area		Volume	
Cut	Fill	Cut	Fill
0	180		
0	348		
0	196		
0	347		
0	179		
0	17	0	320
0	166		
0	18	4	312
4	171		
5	372		
0	23		
1	234		
0	349	1	520

STA. 30+50 TO STA. 33+00

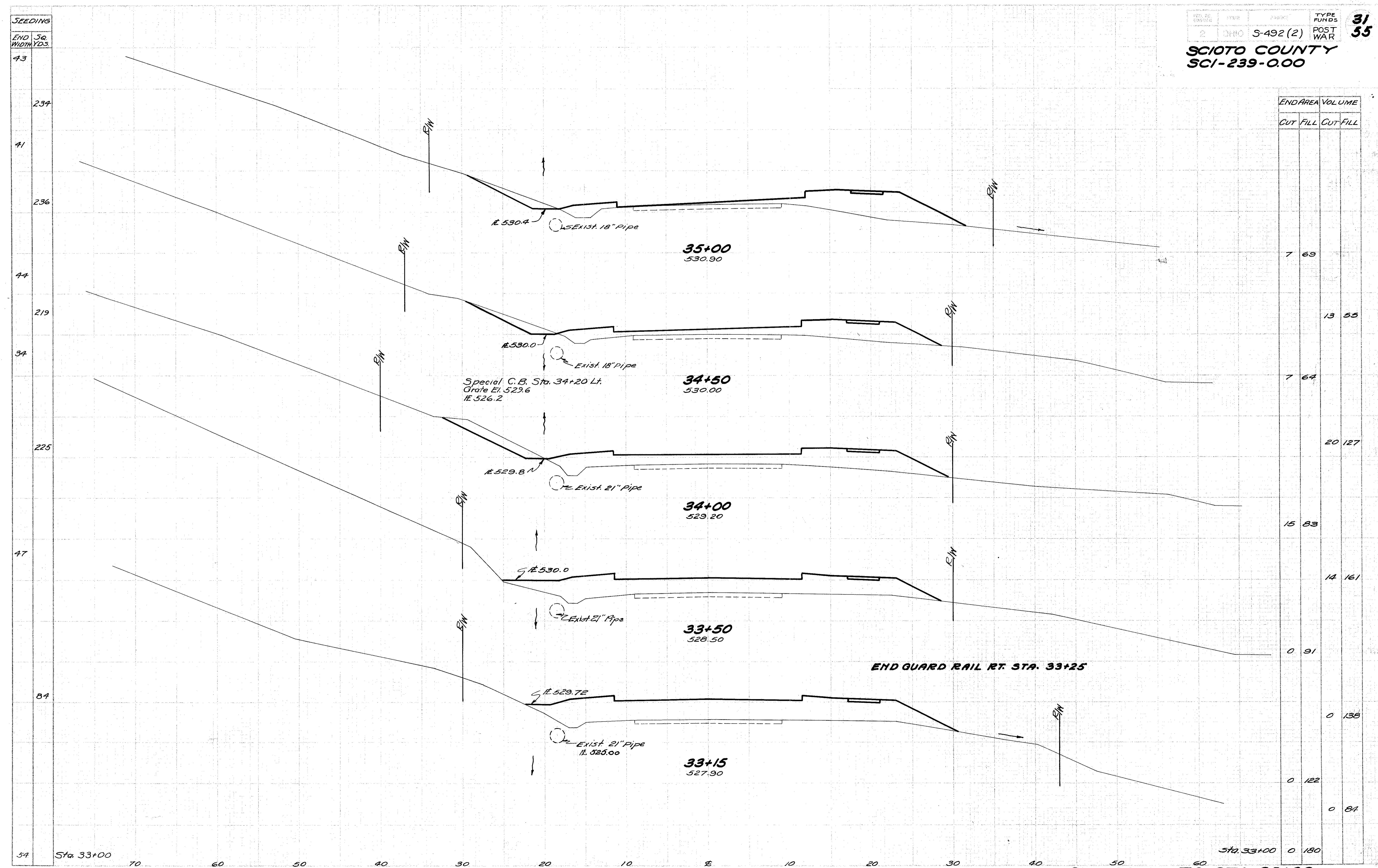


**SCIOTO COUNTY**  
**SCI-239-0.00**

**SEEDING**

END WIDTH	SQ. YDS.
43	
234	
41	
236	
44	
219	
34	
225	
47	
84	
54	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		7	69
			13 55
		7	64
			20 127
		15	83
			14 161
		0	91
			0 138
		0	122
			0 84
		0	180



STA. 33+15 TO STA. 35+00

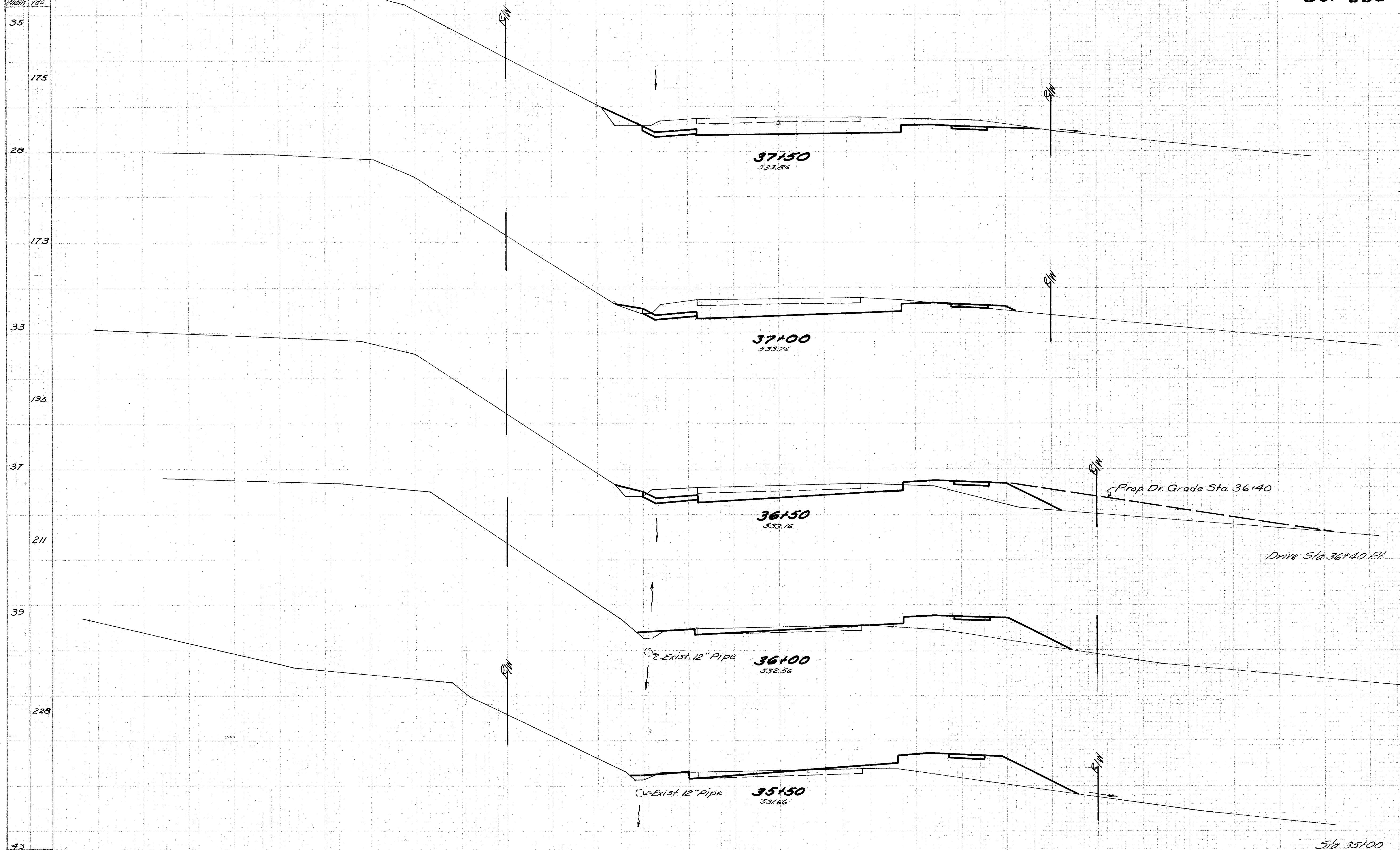


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SCI-239-0.00

Seeding  
End Sp.  
Width Yds.

35  
175  
28  
173  
33  
195  
37  
211  
39  
228  
43

End Area		Volume	
Cut	Fill	Cut	Fill
45	3		
		78	7
39	4		
		55	24
20	22		
		0	22
		20	53
1	35		
		2	78
1	49		
		8	110
7	69		



Sta 35+00

Sta 35+00

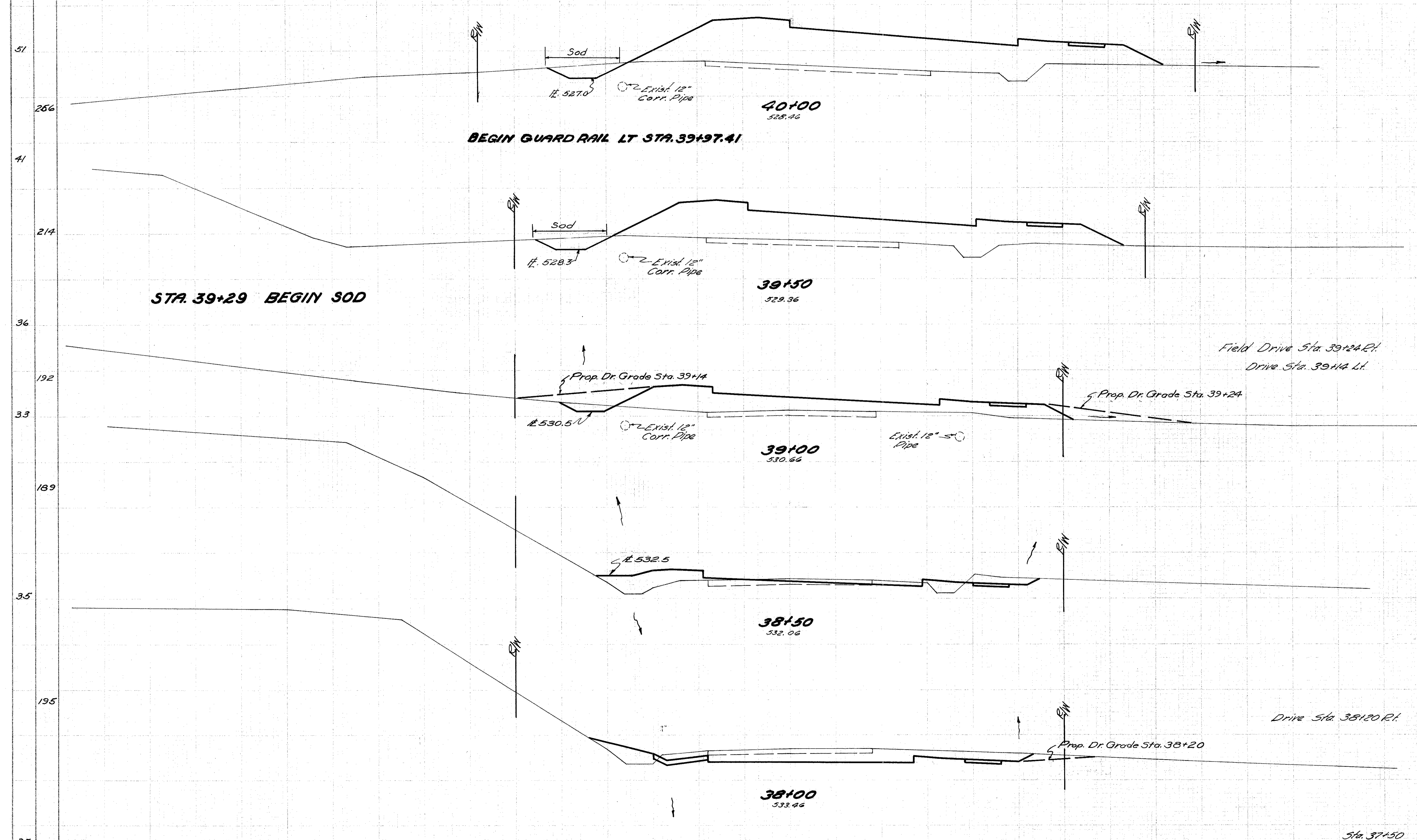
STA. 35+50 TO STA. 37+50



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SCI-239-0.00

STA. 40+10 { BEGIN PAVED GUTTER Lt.  
END SOD Lt.

Seeding  
End Sq.  
Width Yds.



End Area		Volume	
Cut	Fill	Cut	Fill
0	188		
			0 305
0	142		
			0 6
			0 13
		3	203
4	77		
			11 101
8	32		
			50 38
			2 0
46	9		
			85 11
45	3		

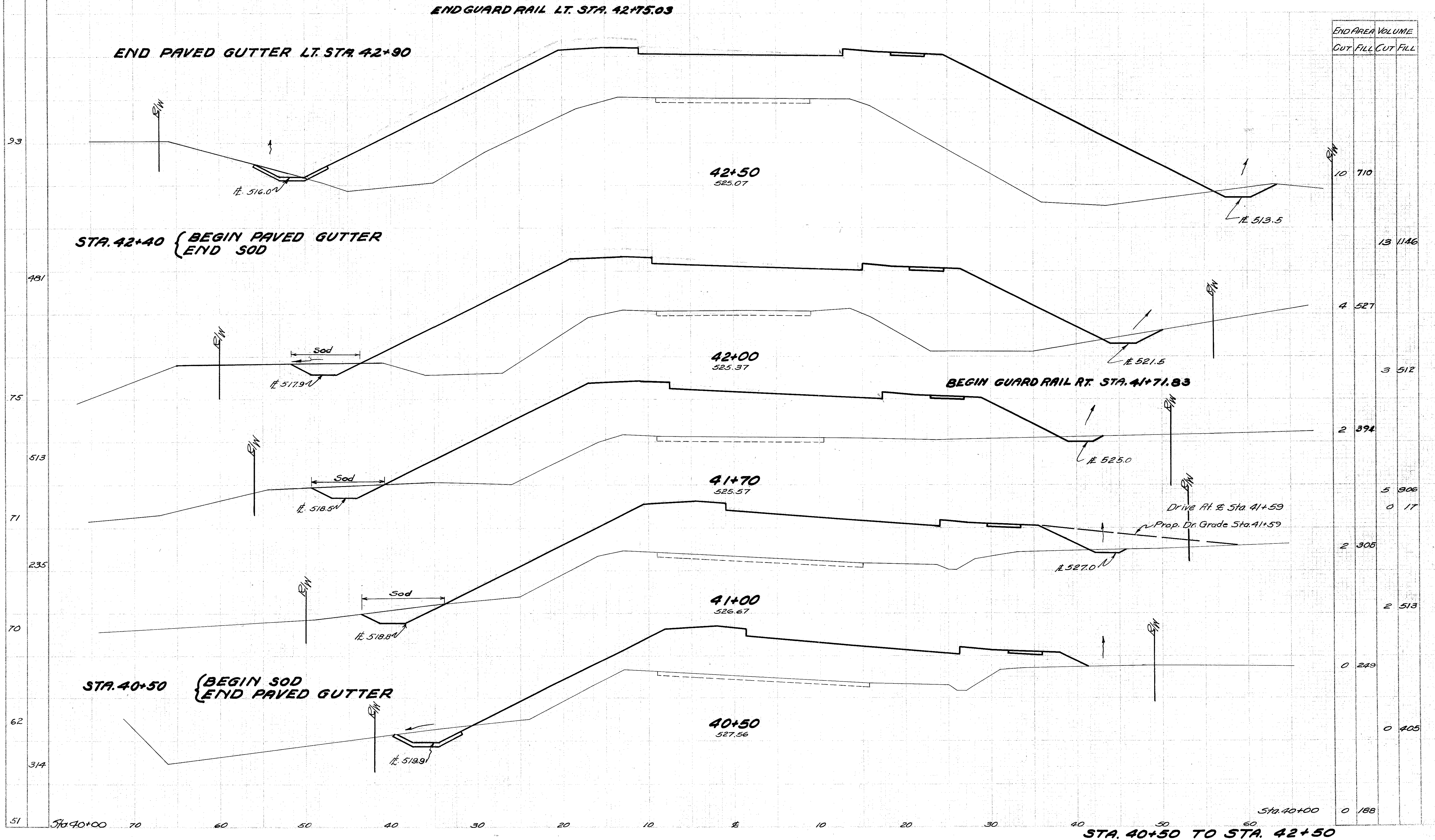
STA. 38+00 TO STA. 40+00



SEEDING  
END 50  
WIDTH YDS

POST	TYPE FUNDS	34
2	POST WAR	55

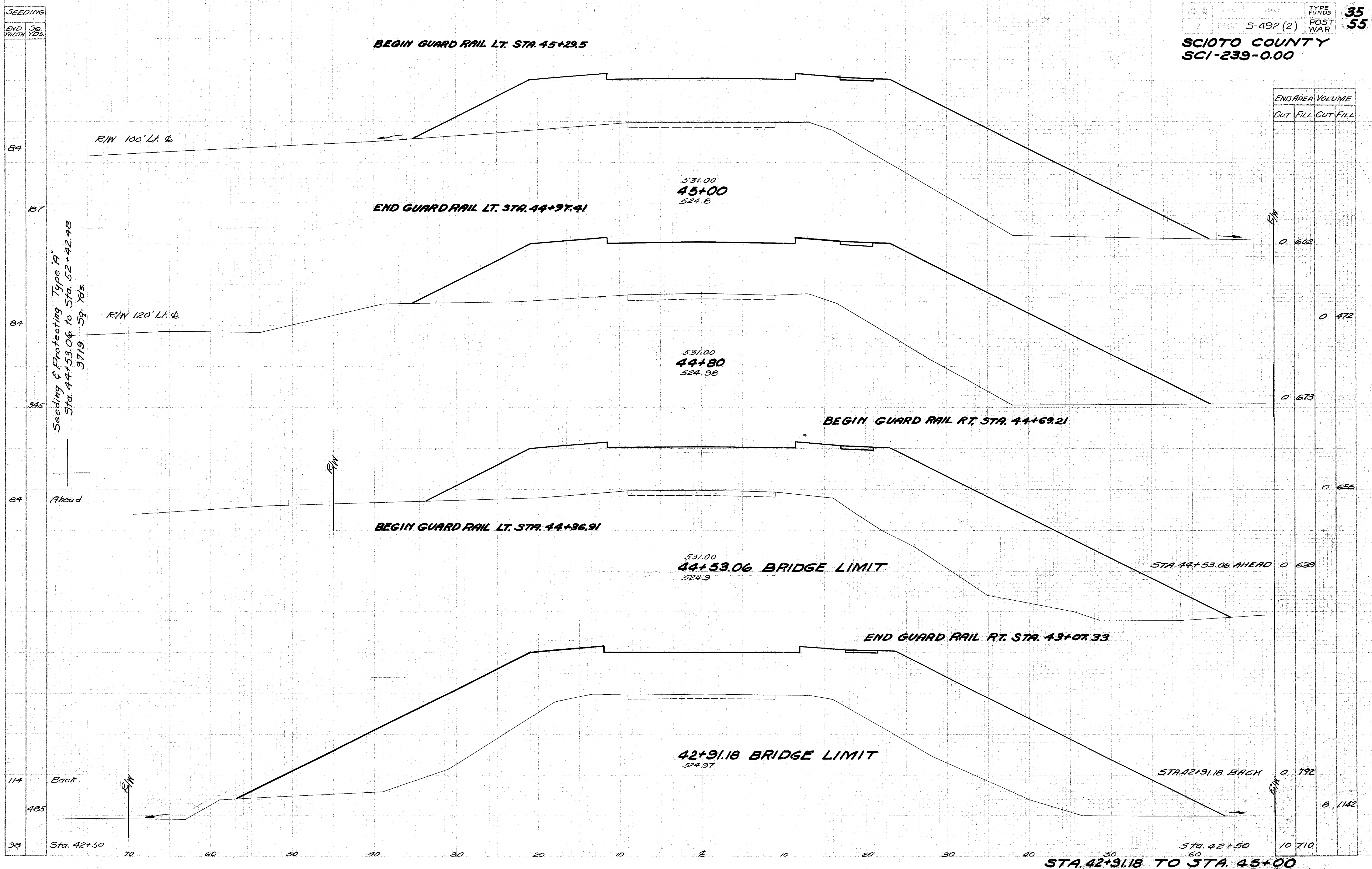
SCIOTO COUNTY  
SCI-239-0.00



END AREA	VOLUME	
	CUT	FILL
10	710	
13	1146	
4	527	
3	512	
2	394	
5	906	
0	17	
2	305	
2	513	
0	249	
0	405	
0	188	



**SCIOTO COUNTY  
SCI-239-0.00**



SEEDING	
END WIDTH	50 YDS.
84	
87	
84	
345	
89	
114	
485	
98	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	602		
		0	472
0	673		
		0	655
0	639		
		0	192
10	710		
		8	1142

Seeding & Protecting Type A  
Sta. 44+53.06 to Sta. 52+42.48  
3719 Sq. Yds.

Ahead

Back

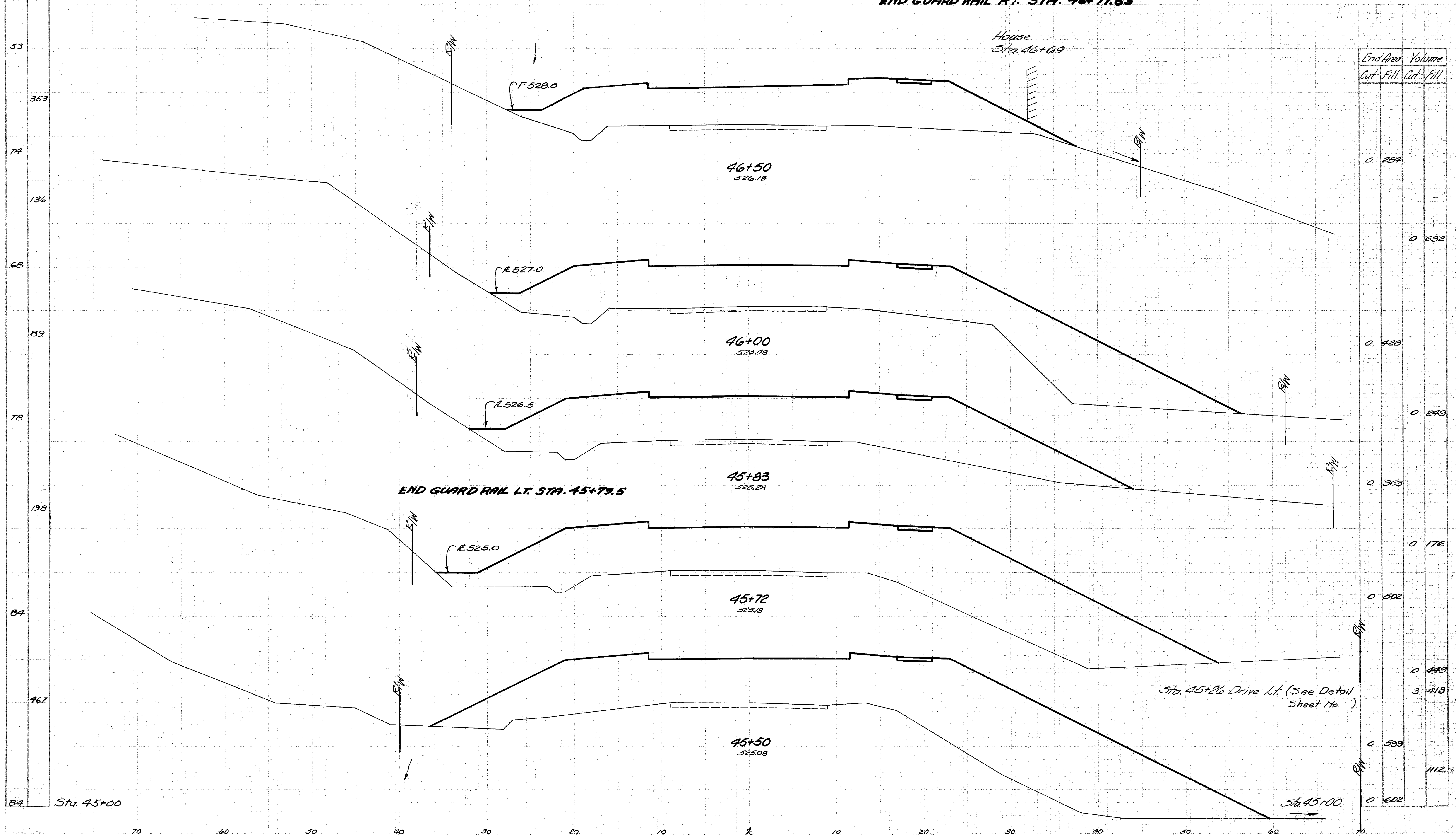
Sta. 42+50

STA. 42+91.18 TO STA. 45+00



SCIOTO COUNTY  
SCI-239-0.00

Seeding  
Erod. Sp.  
Width Yds.



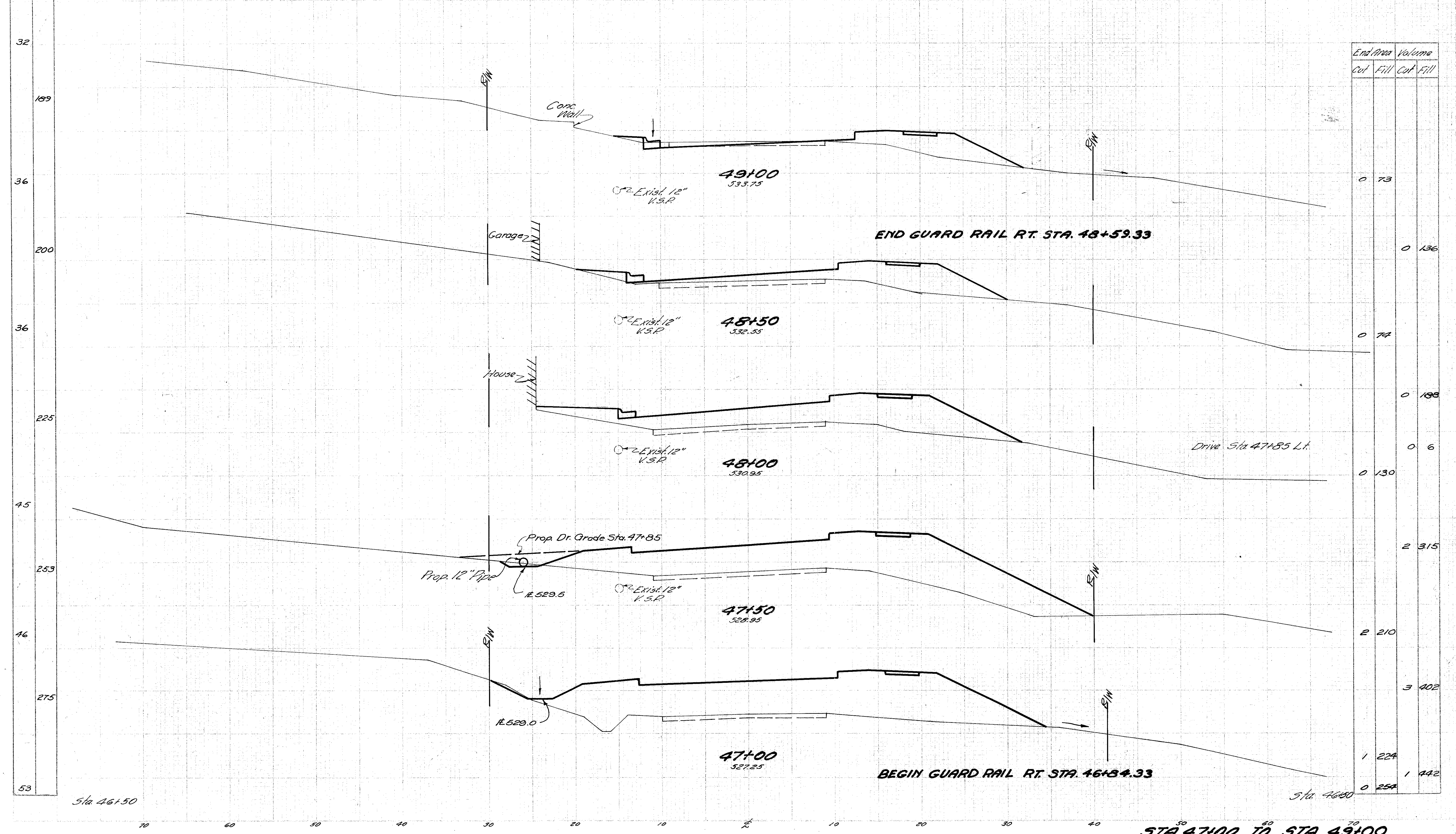
End Area		Volume	
Cut	Fill	Cut	Fill
0	254		
		0	632
0	428		
		0	249
0	363		
		0	176
0	502		
		0	449
		3	413
0	599		
			1112
0	602		

STA. 45+50 TO STA. 46+50



**SCIOTO COUNTY**  
**SCI-239-0.00**

Seeding  
End 5g.  
Width 1/4s.



End Area		Volume	
Cut	Fill	Cut	Fill
0	73		
0	136		
0	74		
0	198		
0	6		
0	130		
2	315		
2	210		
3	402		
1	224		
1	442		
0	254		

Sta 46+50

Sta 46+50

STA. 47+00 TO STA. 49+00



SEEDING
END Sta. WIDTH YDS.
0
174
22
150
32
156
24
150
30
172
32

Sta. 52+42.48

END APPROACH STA. 52+42.48

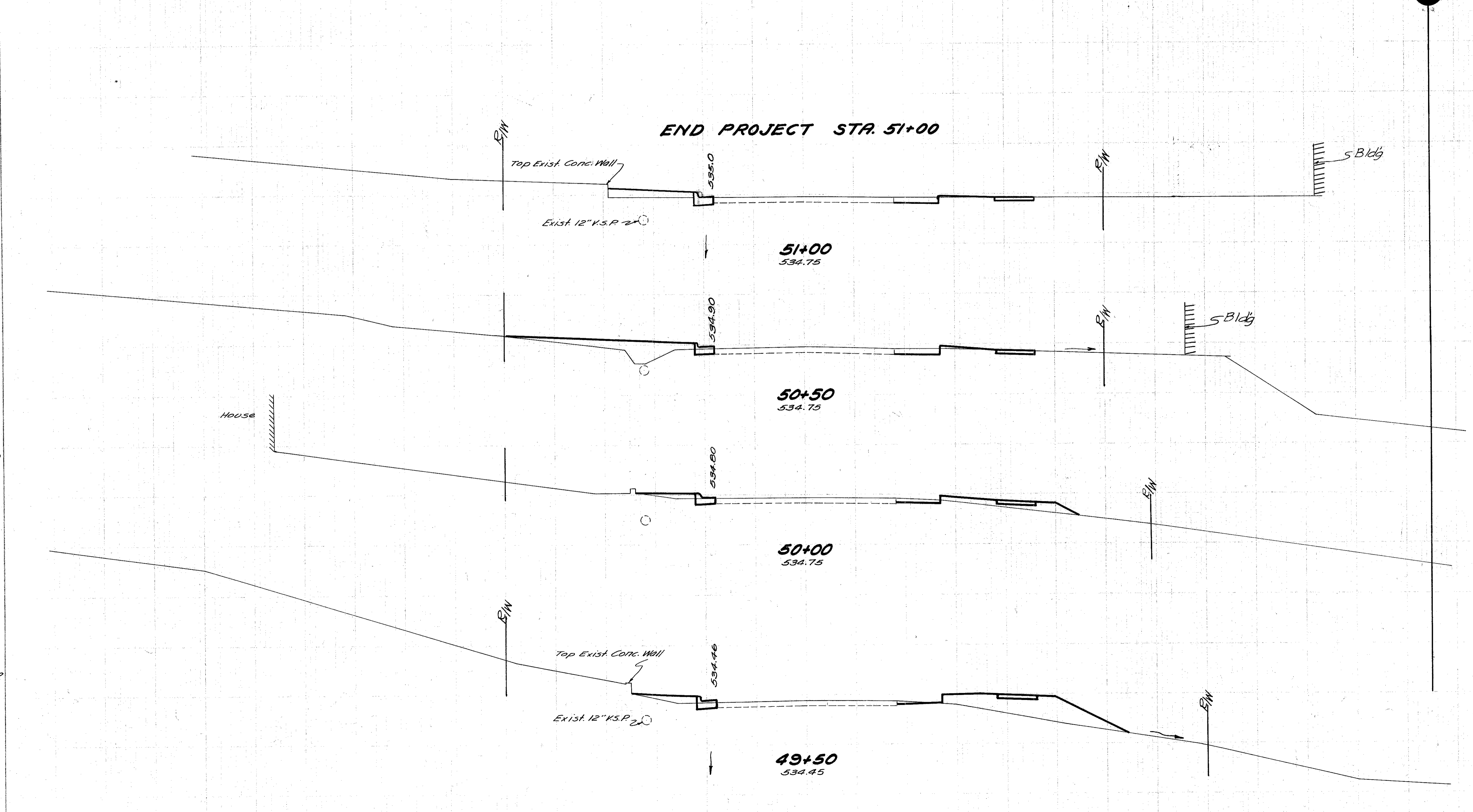
Sta. 52+42.48

END PROJECT STA. 51+00

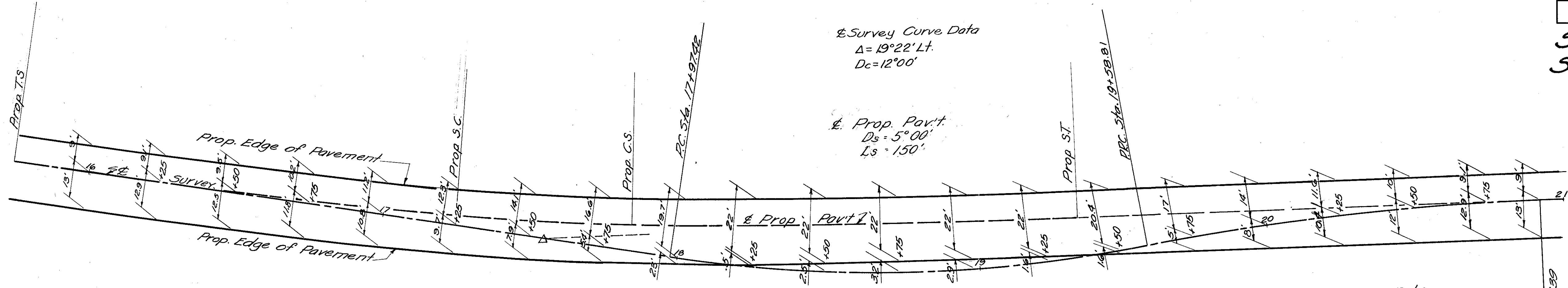
Sta. 49+00

STA. 49+50 TO STA. 51+00

END AREA VOLUME			
CUT	FILL	CUT	FILL
0	0		
		8	21
3	8		
		6	25
3	19		
		4	29
2	13		
		3	42
1	32		
		1	97
0	73		

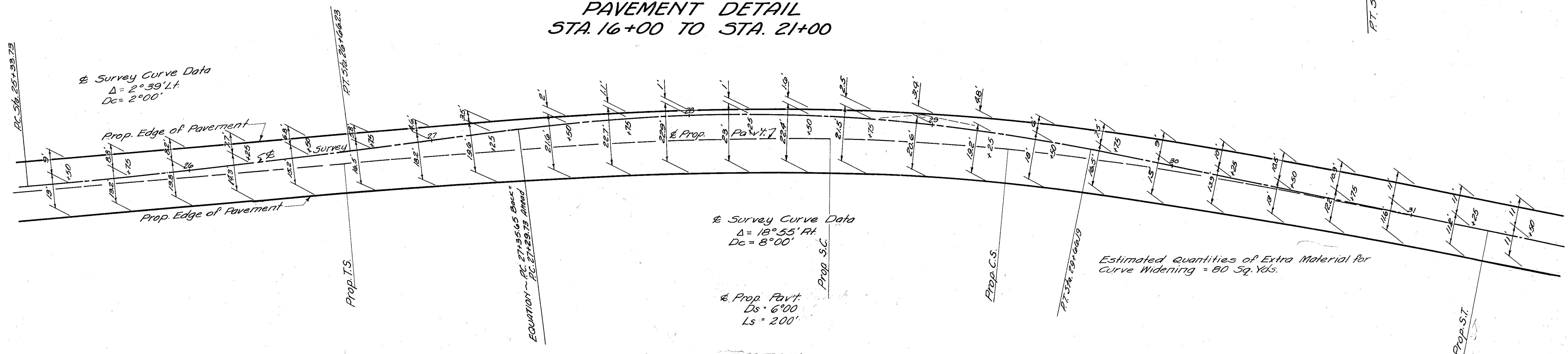




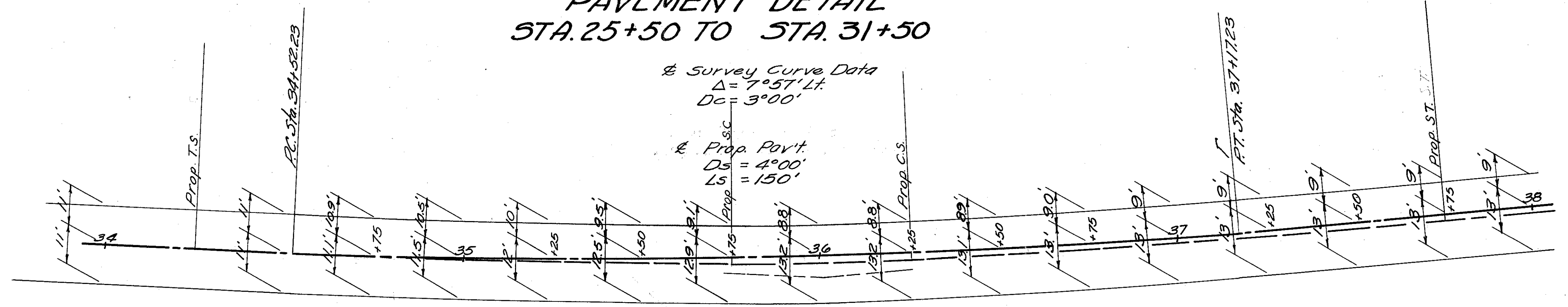


PAVEMENT DETAIL  
STA. 16+00 TO STA. 21+00

Survey Curve Data  
 $\Delta = 8^{\circ}53' Rt.$   
 $Dc = 6^{\circ}39'$

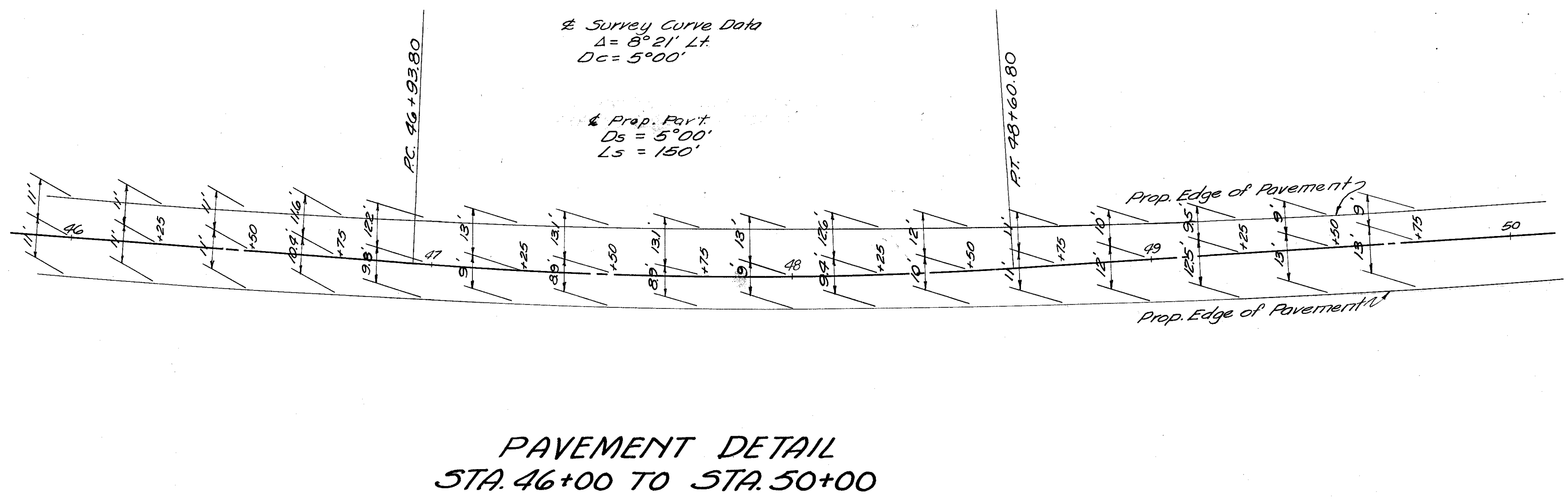
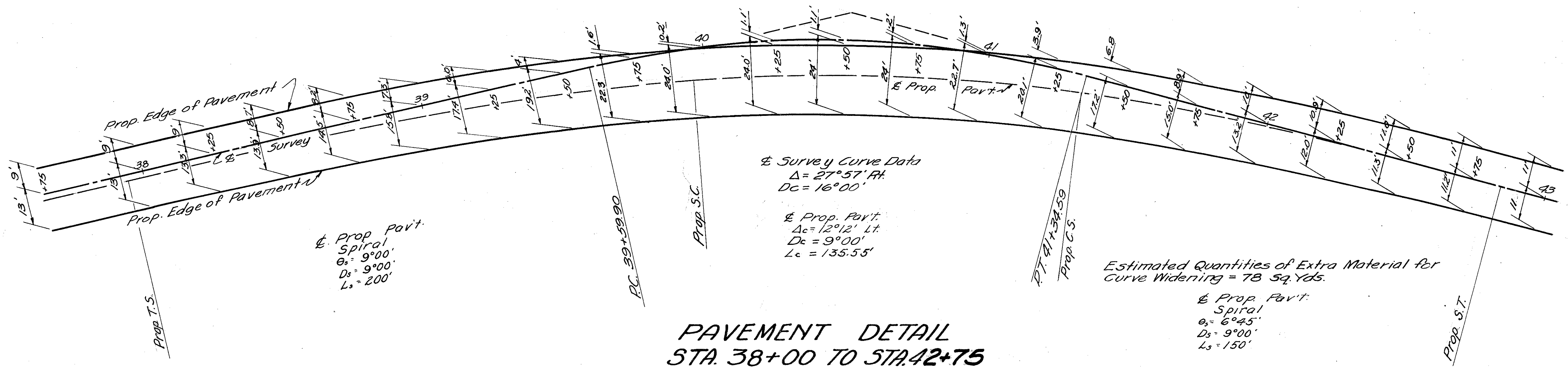


PAVEMENT DETAIL  
STA. 25+50 TO STA. 31+50



PAVEMENT DETAIL  
STA. 34+00 TO STA. 38+00

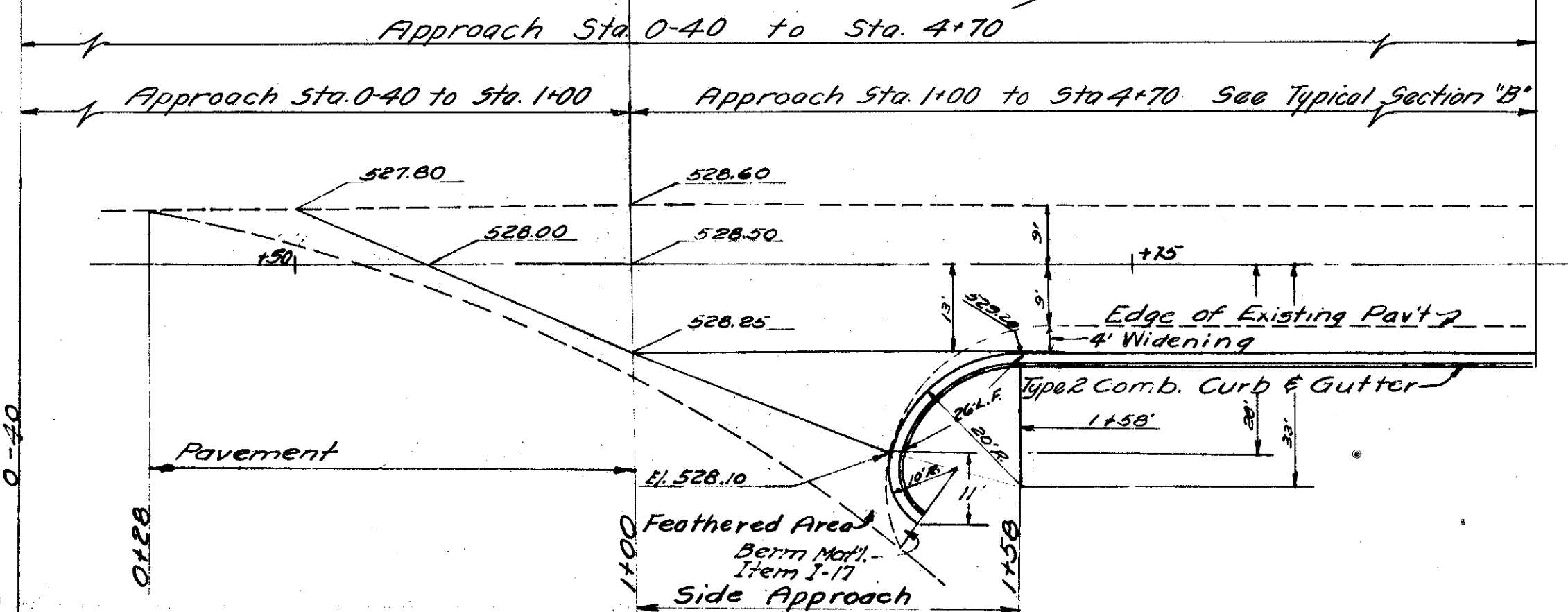






**ESTIMATED QUANTITIES  
APPROACH 0-40 TO 1+00**

- Item T-35 61.1 Sq. Yds. Surface Course
- Item B-35 62.48 Sq. Yds. 3" Leveling Course
- Item B-35 63.87 Sq. Yds. Base Course
- Item T-35 1.5 Cu. Yds. Var. Surface Course Type A
- Item I-19 63.87 Sq. Yds. Insulation Course
- Item B-35 61.1 Sq. Yds. 3/4" (1" Avg.) Leveling Course



**ESTIMATED QUANTITIES**

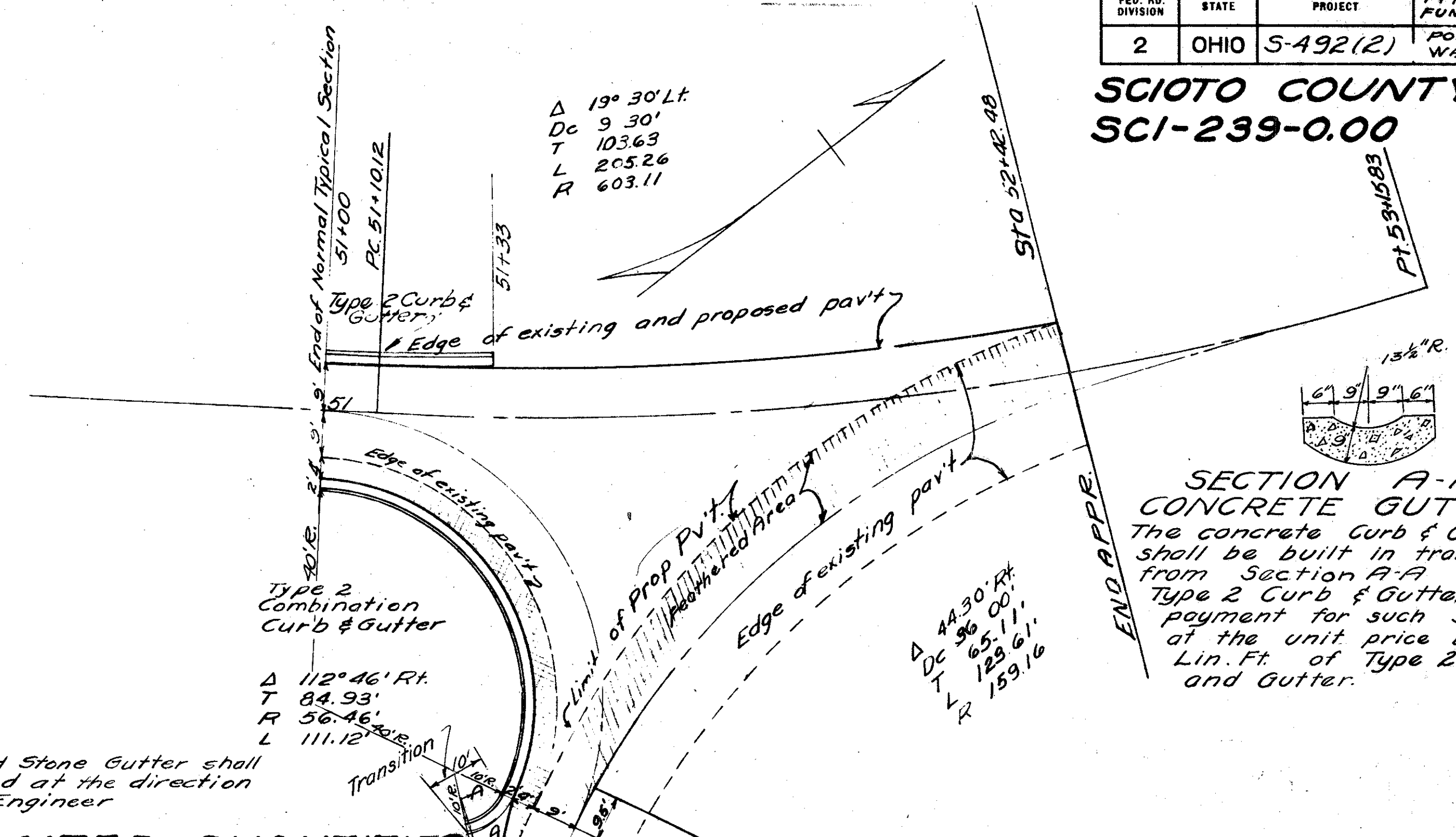
- Item T-35 27.2 Sq. Yds. Surface Course
- Item B-35 27.2 Sq. Yds. 3" Leveling Course
- Item B-35 27.2 Sq. Yds. Base Course
- Item I-12 37.0 L.F. Type 2 Comb. Curb & Gutter
- Item T-35 1.3 Cu. Yds. Variable depth Asphaltic Conc. Surface Course Type A
- Item I-17 1.0 Cu. Yds. Side Approaches, Mail Box Turnouts & Berm Material
- Item I-19 27.2 Sq. Yds. Insulation Course
- Item B-35 27.2 Sq. Yds. 3/4" (1" Avg.) Asphaltic Conc. Leveling Course

**DETAIL OF APPROACH  
STA. 0-40 TO STA. 1+00**

**DETAIL OF SIDE APPROACH  
STA. 1+00 TO STA. 1+58**

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	S-492(2)	POST WAR

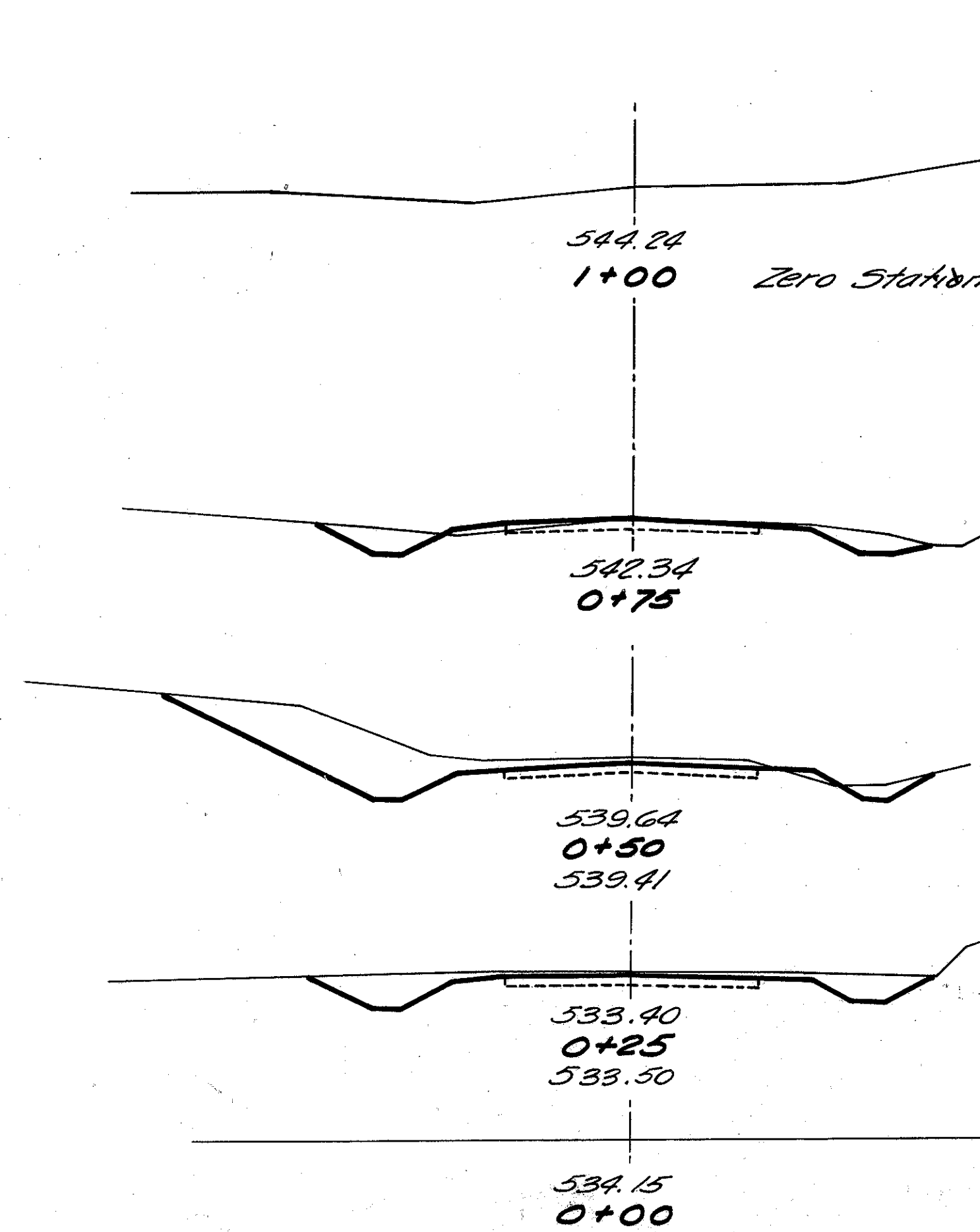
**SCIOTO COUNTY  
SCI-239-0.00**



**ESTIMATED QUANTITIES**

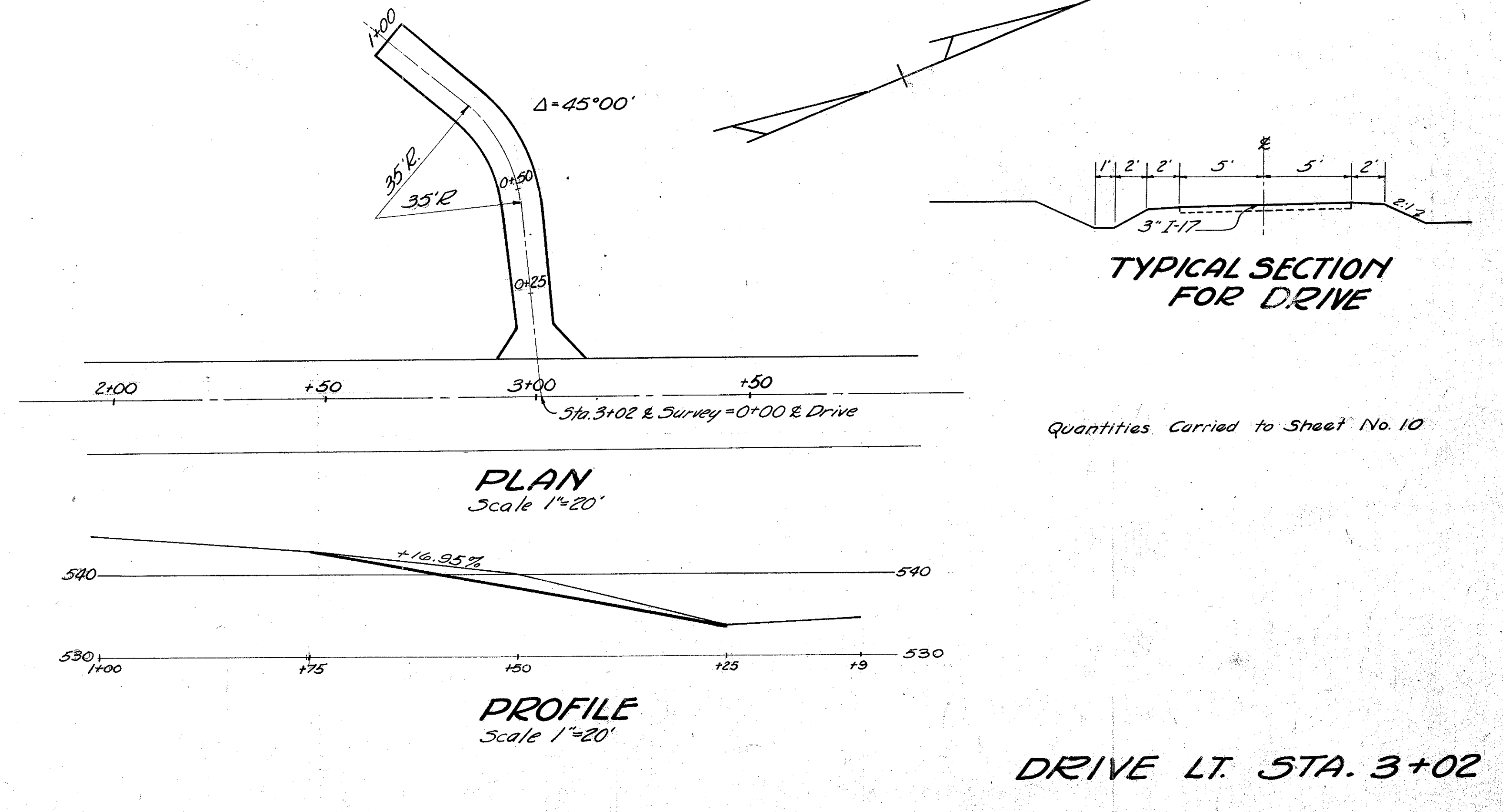
- Item I-19 36.4 Sq. Yds. Insulation Course
- Item E-8 115.0 Lin. Ft. Sealing Only
- Item T-35 463.5 Sq. Yds. Surface Course
- Item T-35 3.8 Cu. Yds. Var. Depth Surface Course
- Item T-30 422.5 Sq. Yds. Bituminous Tack Coat
- Item B-35 36.4 Sq. Yds. 3" Leveling Course
- Item I-12 125 Lin. Ft. Type 2 Combination Curb & Gutter
- Item B-35 36.4 Sq. Yds. Base Course
- Item B-35 463.5 Sq. Yds. Leveling Course 3/4" (1" Avg.)

**DETAIL OF APPROACH  
STA. 51+00 TO STA. 52+42.48**



Area	Volume	
	Cut	Fill
0	0	0
6	0	0
12	0	0
10	1	0
22	1	0
15	1	0
10	0	0
3	0	0
0	0	0
<b>Total</b>	<b>40</b>	<b>2</b>

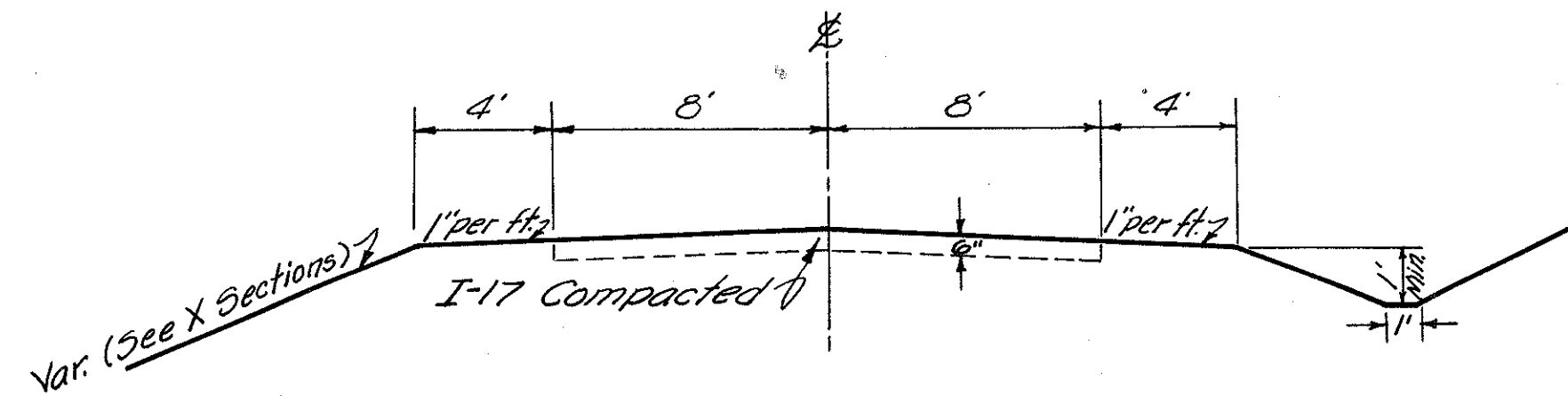
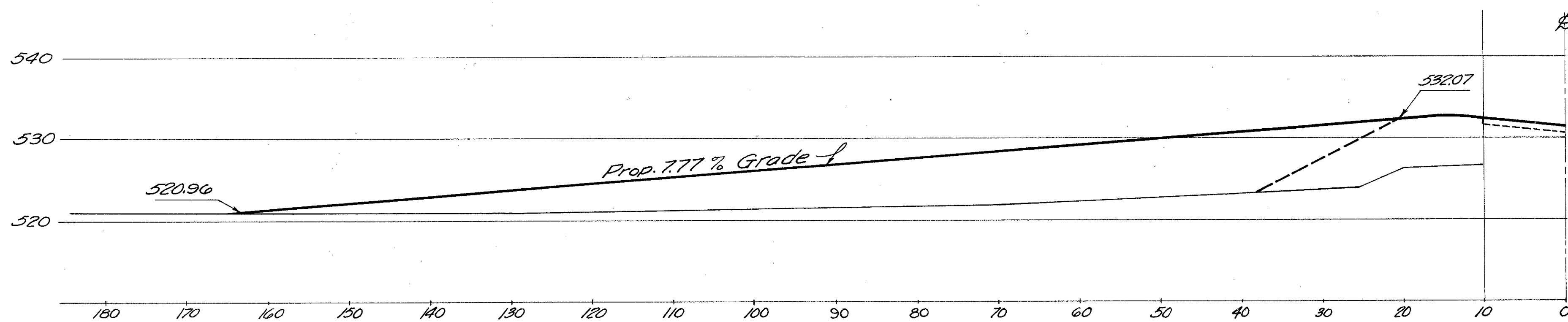
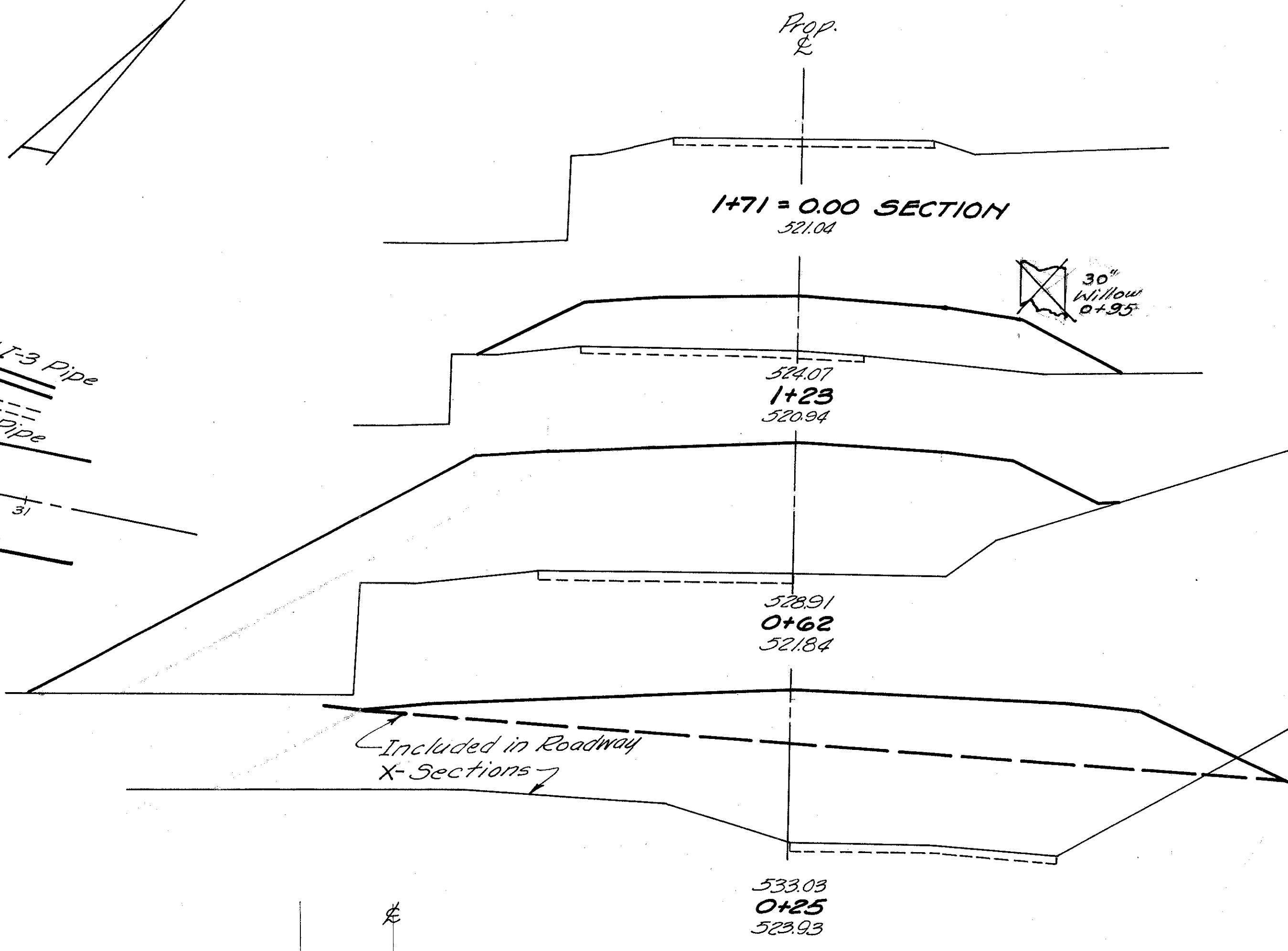
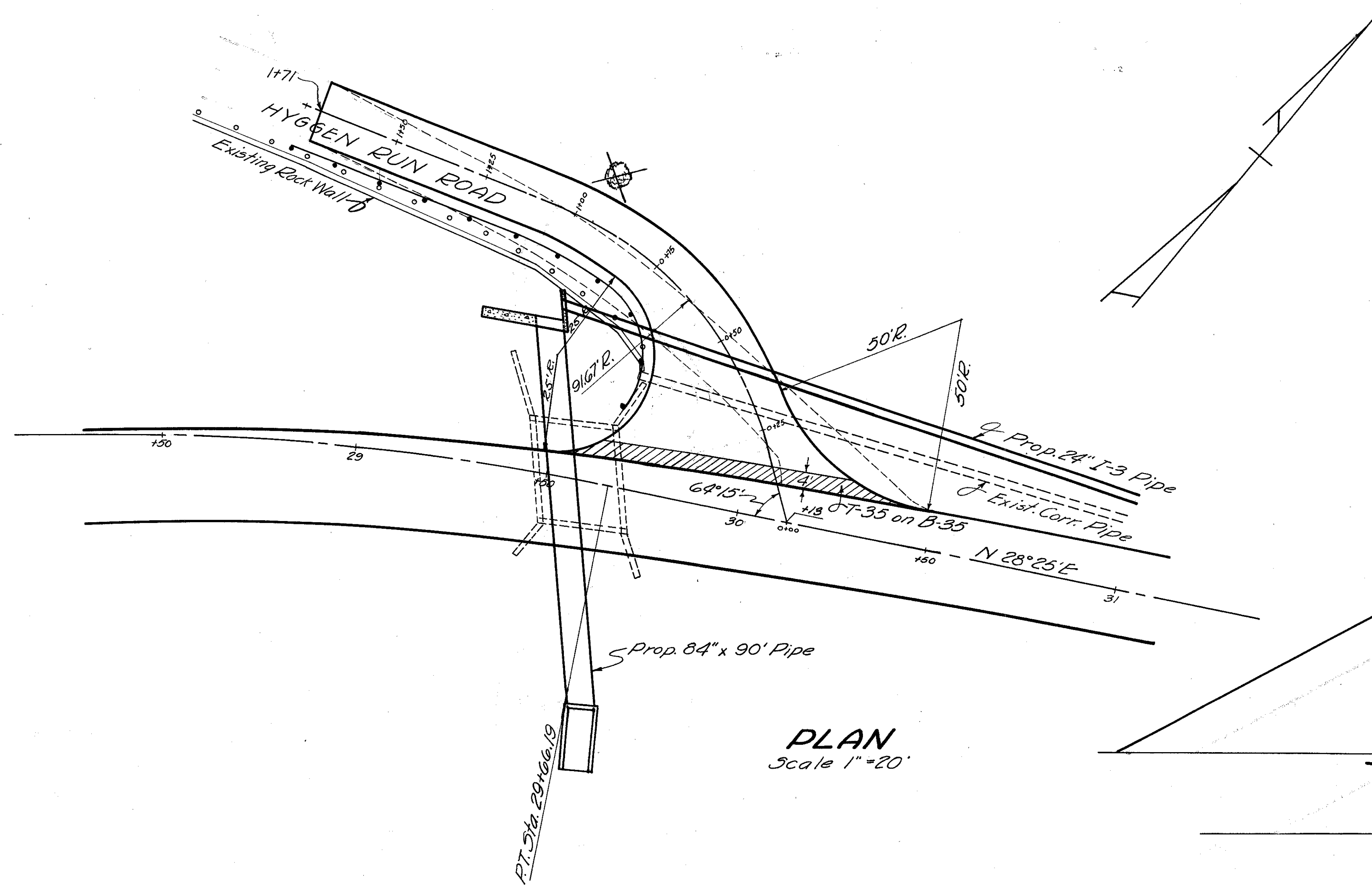
2 Cu. Yds. Quantities Carried to Cross Sections.



**DRIVE LT. STA. 3+02**

SCIOTO COUNTY  
5CI-239-0.00

End Area	Volume
Cut	Fill
0	0
	0 75
0	85
	0 455
0	318
	11 289
16	104
	2 10
Total	13 829 Cu.Yds. (*)



(\*) Carried to Cross Sections

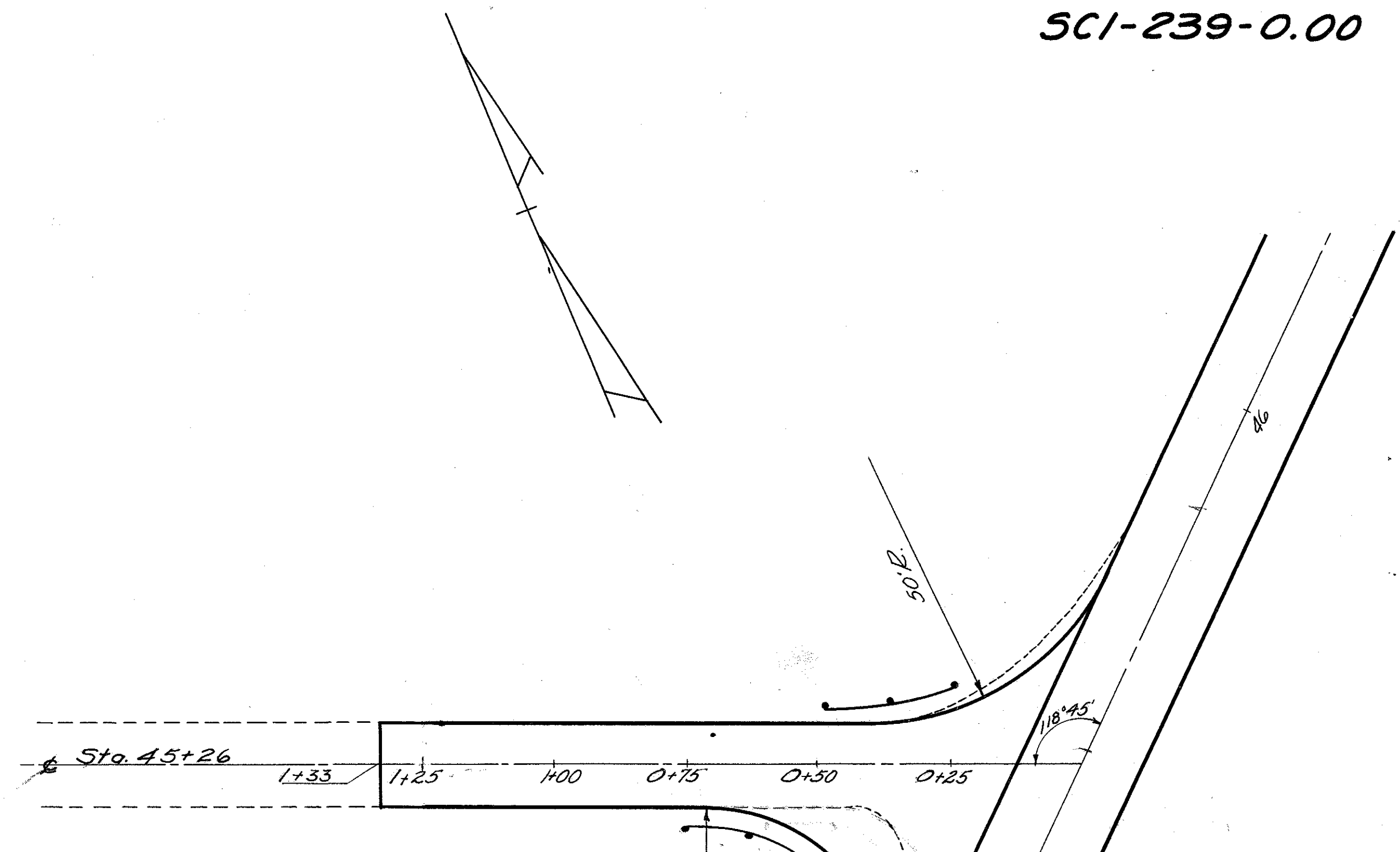
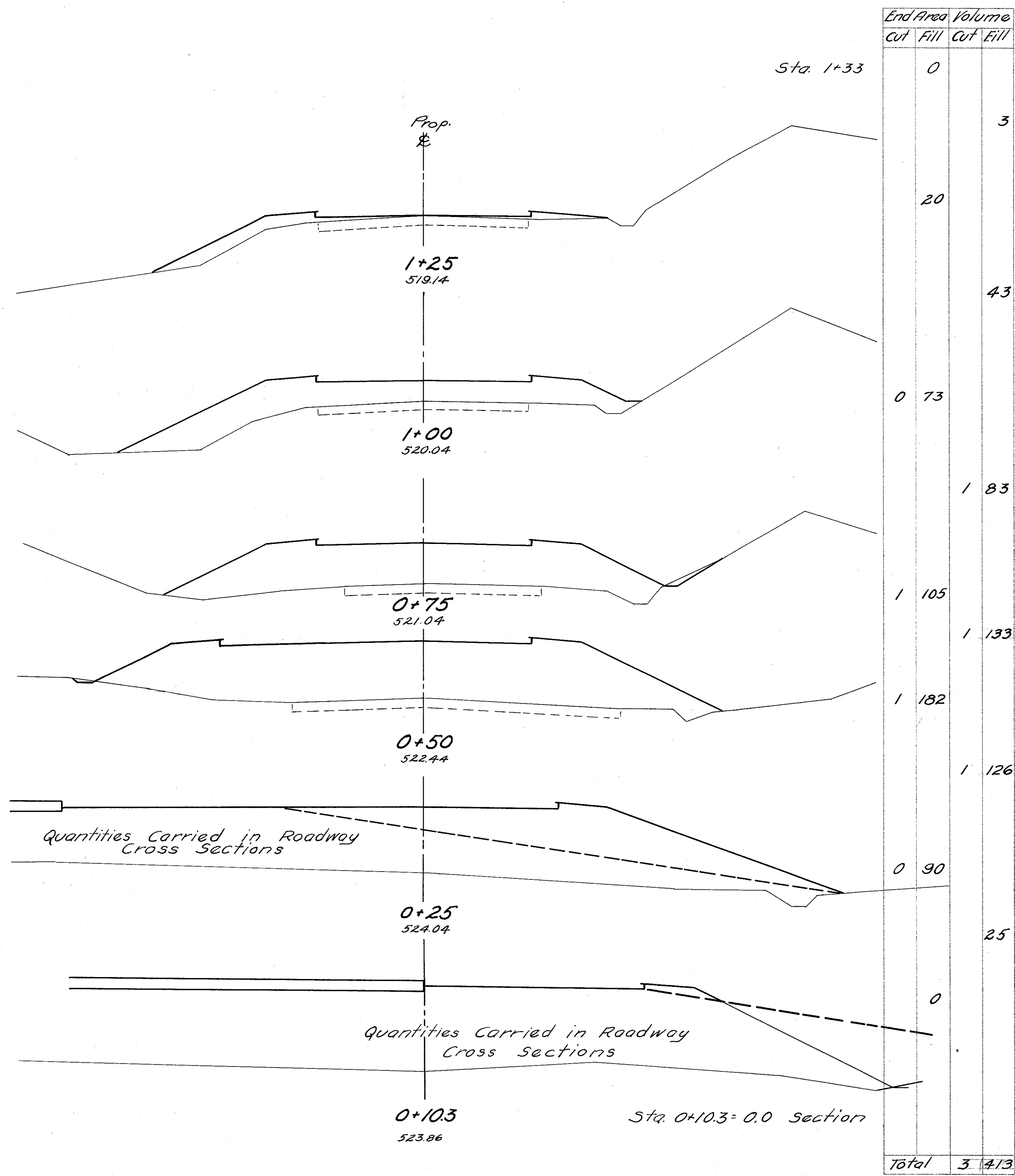
ESTIMATED QUANTITIES

- Item T-35 1 1/4" Asphaltic Concrete Surface Course — 36 Sq. Yds.
- Item B-35 3/4" Asphaltic Concrete Leveling Course — 36 Sq. Yds.
- Item B-35 3" Asphaltic Concrete Leveling Course — 38 Sq. Yds.
- Item B-35 3" Asphaltic Concrete Base Course — 40.5 Sq. Yds.
- Item I-17 Side Approaches, Mailbox Turnouts & Berm Mat'l. — 79 Cu. Yds.
- Item I-19 1 1/4" Insulation Course — 40.5 Sq. Yds.
- \* Item I-15 Guard Rail Steel Beam Type (Deep) — 12.5 Lin. Ft.

\* Note: Quantity Carried to Sheet No. 5



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SCI-239-0.00

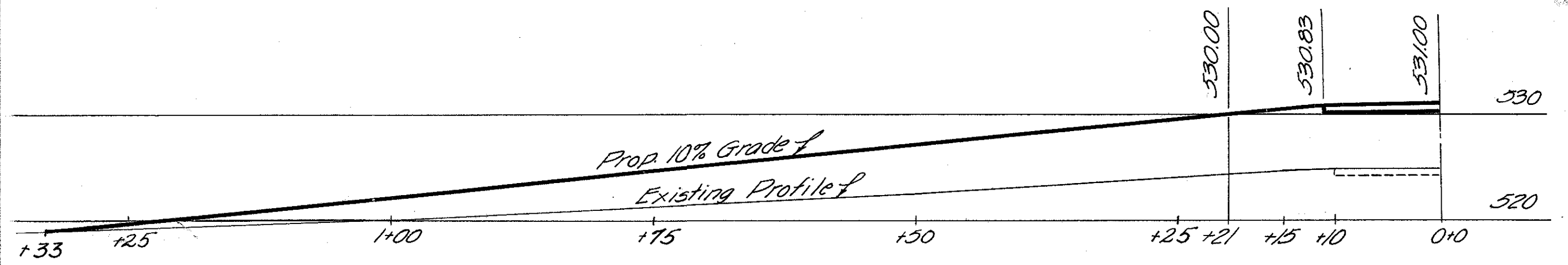


PLAN  
Scale 1"=20'

ESTIMATED QUANTITIES

- Item T-35 1 1/2" Asphaltic Concrete Surface Course - 315.95q. Yds.
- Item B-35 3/4" Asphaltic Concrete Leveling Course - 315.95q. Yds.
- Item B-35 3" Asphaltic Concrete Base Course - 331.15q. Yds.
- Item I-19 1 1/2" Insulation Course - 331.15q. Yds.
- \* Item I-15 Guard Rail (Beam Type-Deep) - 62.5 Lin. Ft.
- \*\* Embankment - 413.0 Cu. Yds.
- \*\* Excavation - 3.0 Cu. Yds.

\* Note: Quantity Carried To Sheet No. 5  
\*\* Quantity Carried to Cross Sections



PROFILE  
Scale 1"=10'

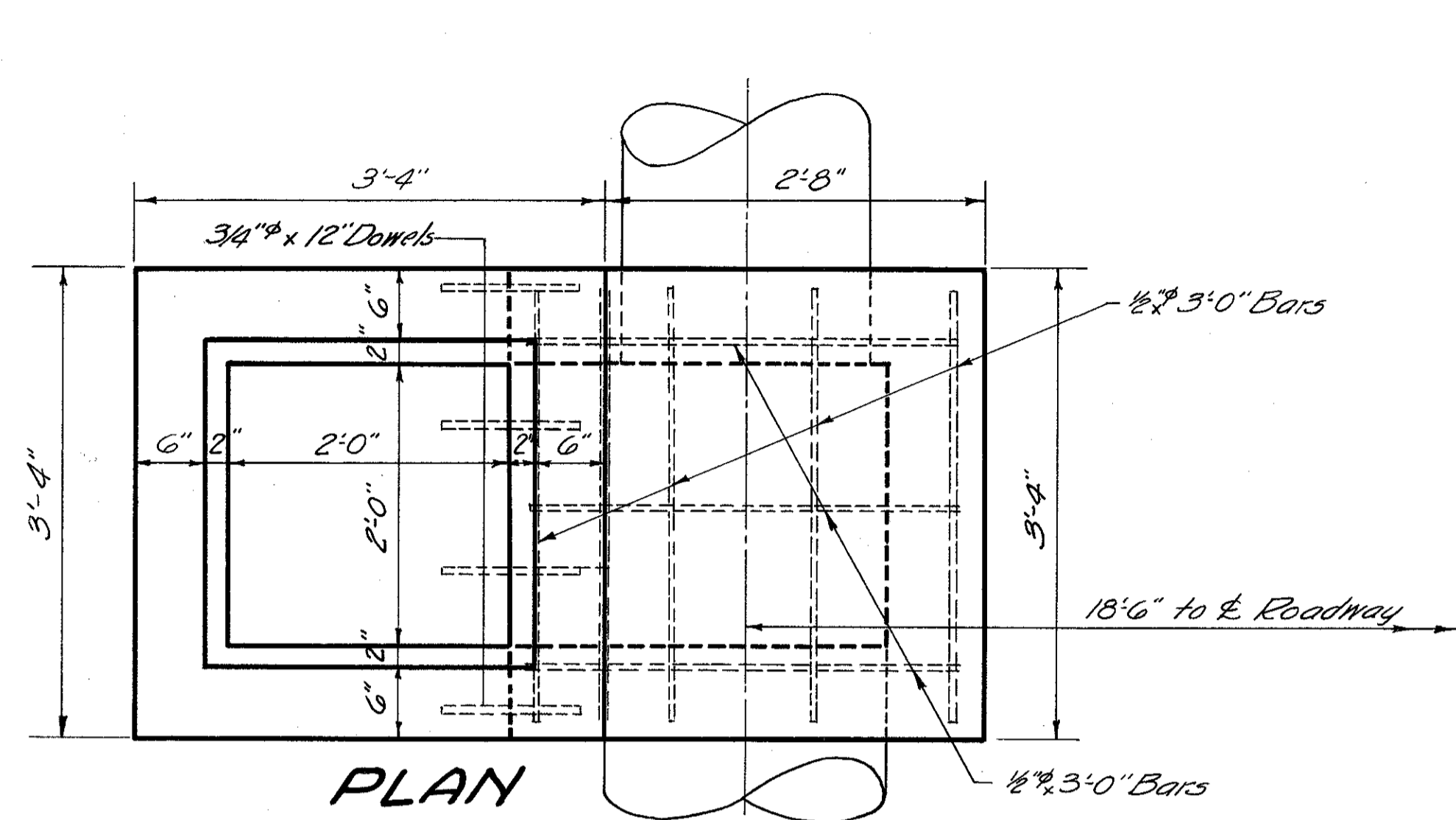
SLAB RUN ROAD  
STA. 45+26

413

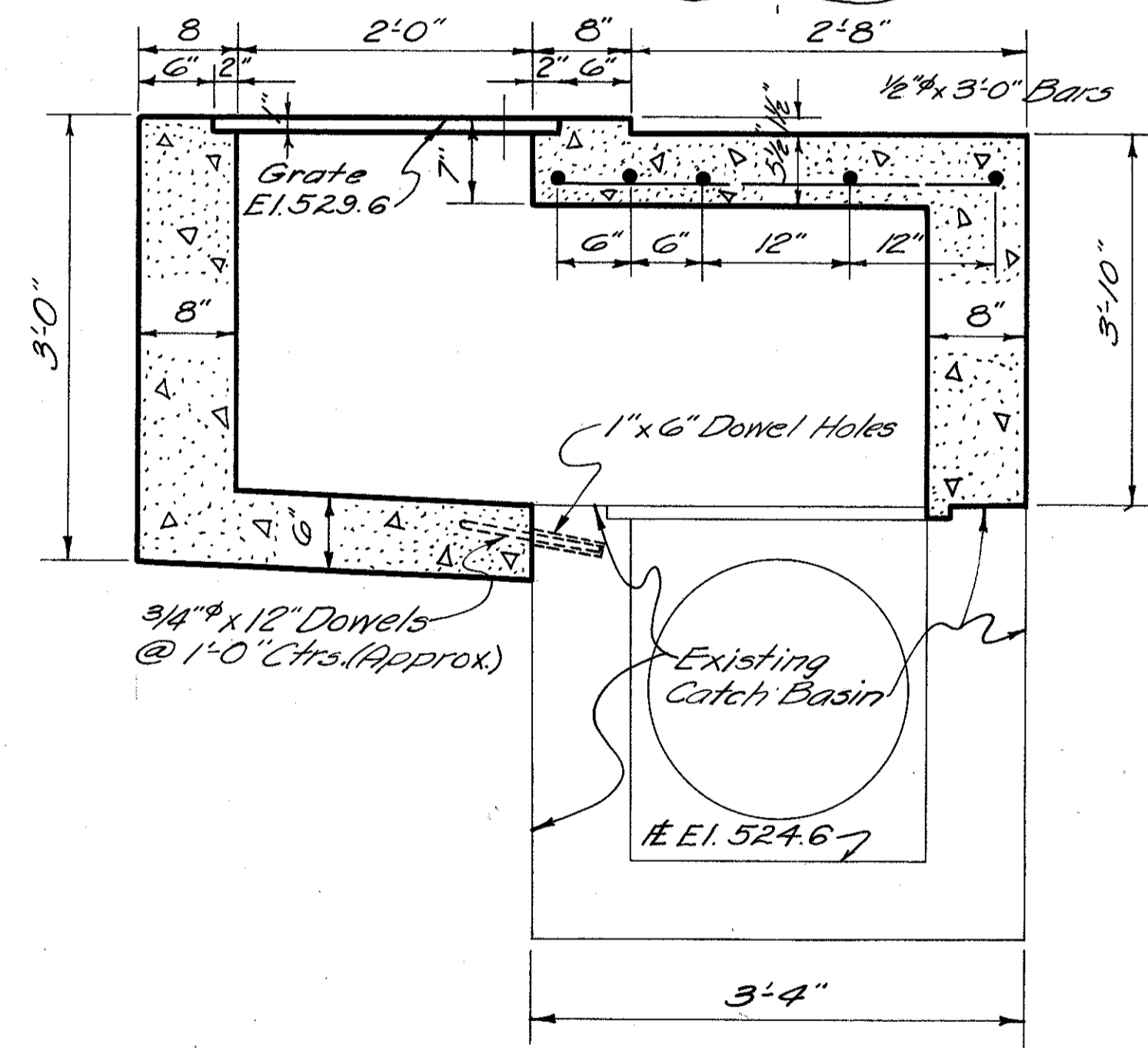
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	5-492(2)	POST WAR

44  
35

SCIOTO COUNTY  
SCI-239-0.00

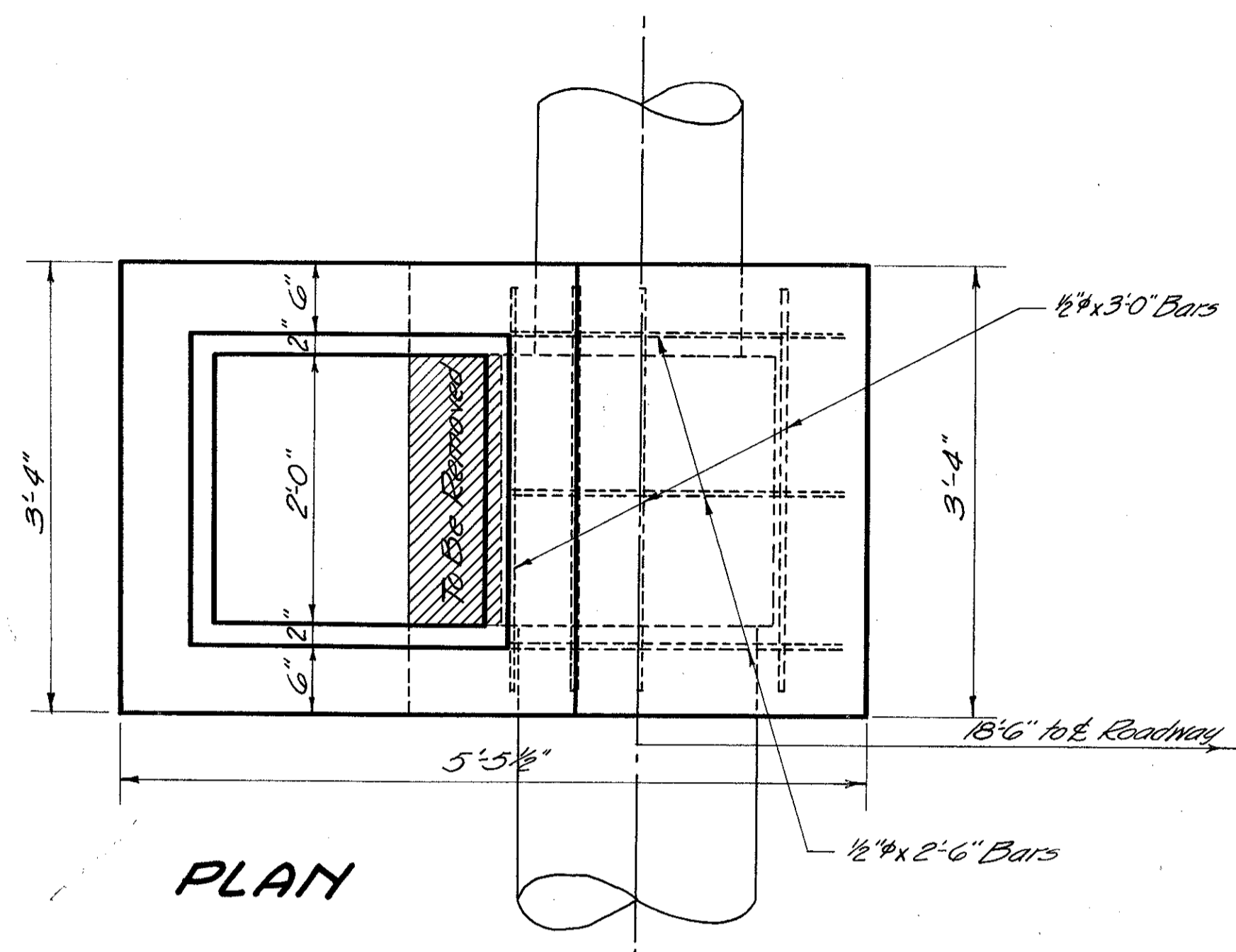


PLAN

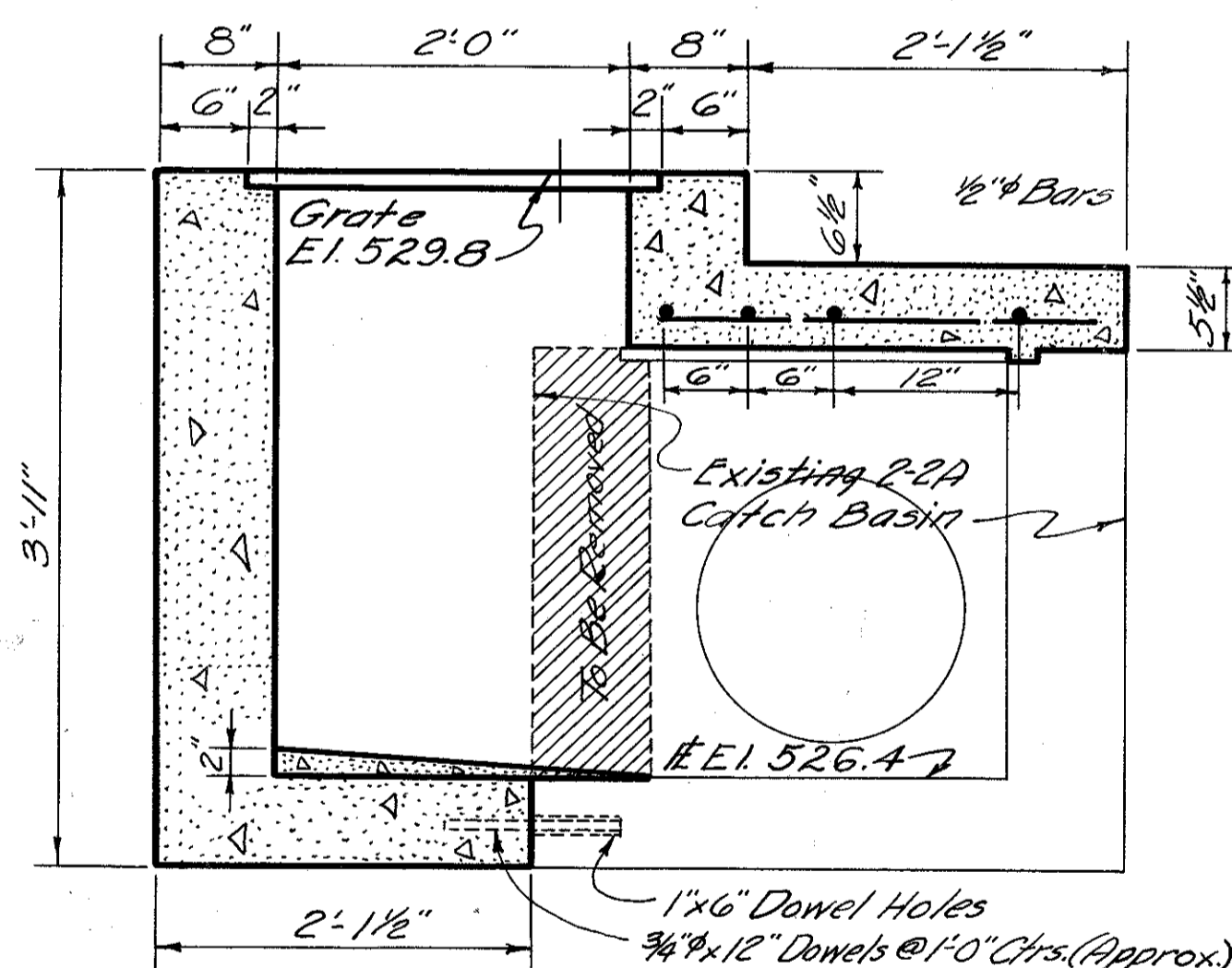


SECTION

CATCH BASIN EXTENSION  
STA. 33+00 LT. (GRATE REMOVED)  
Scale 1"=1'-0"

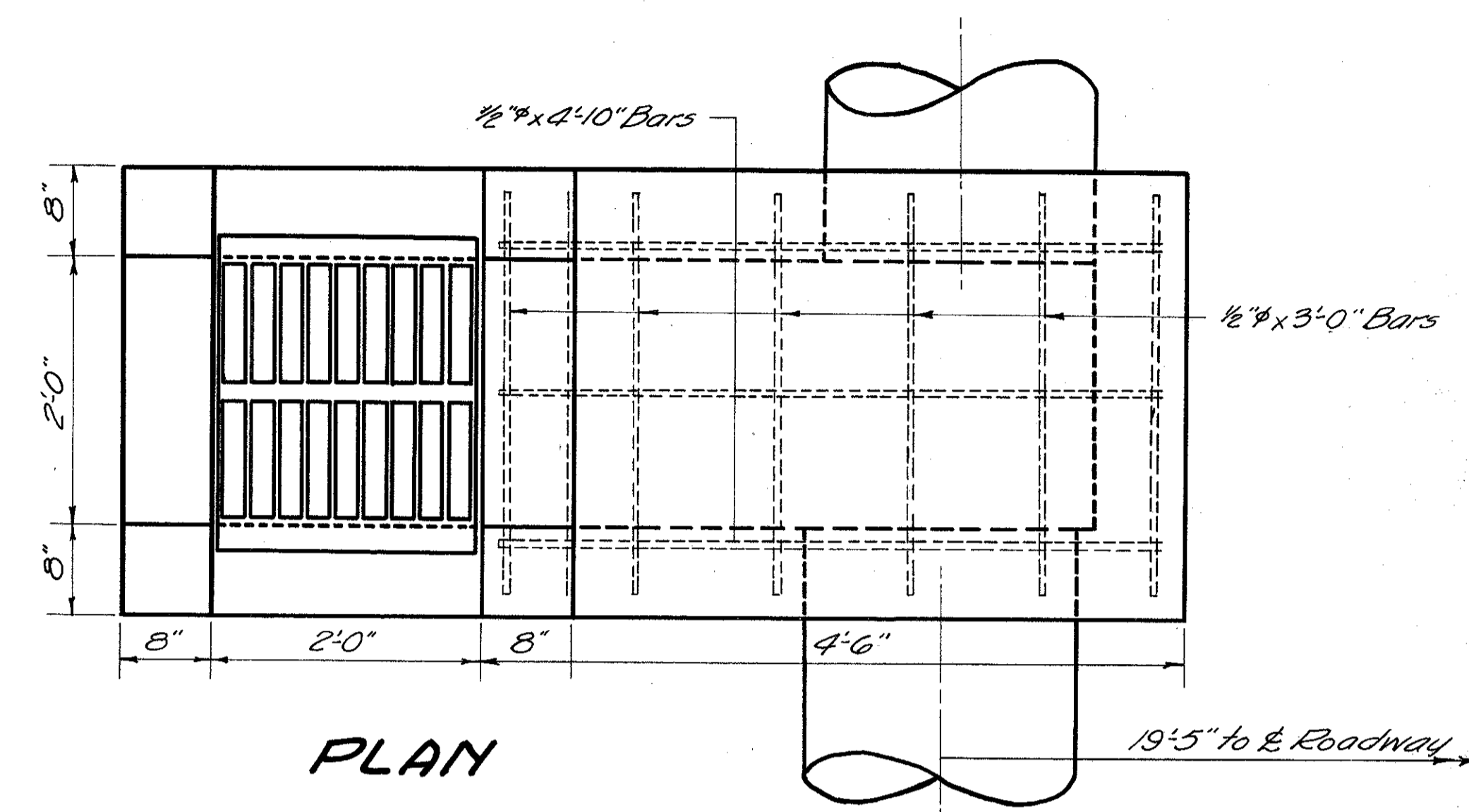


PLAN

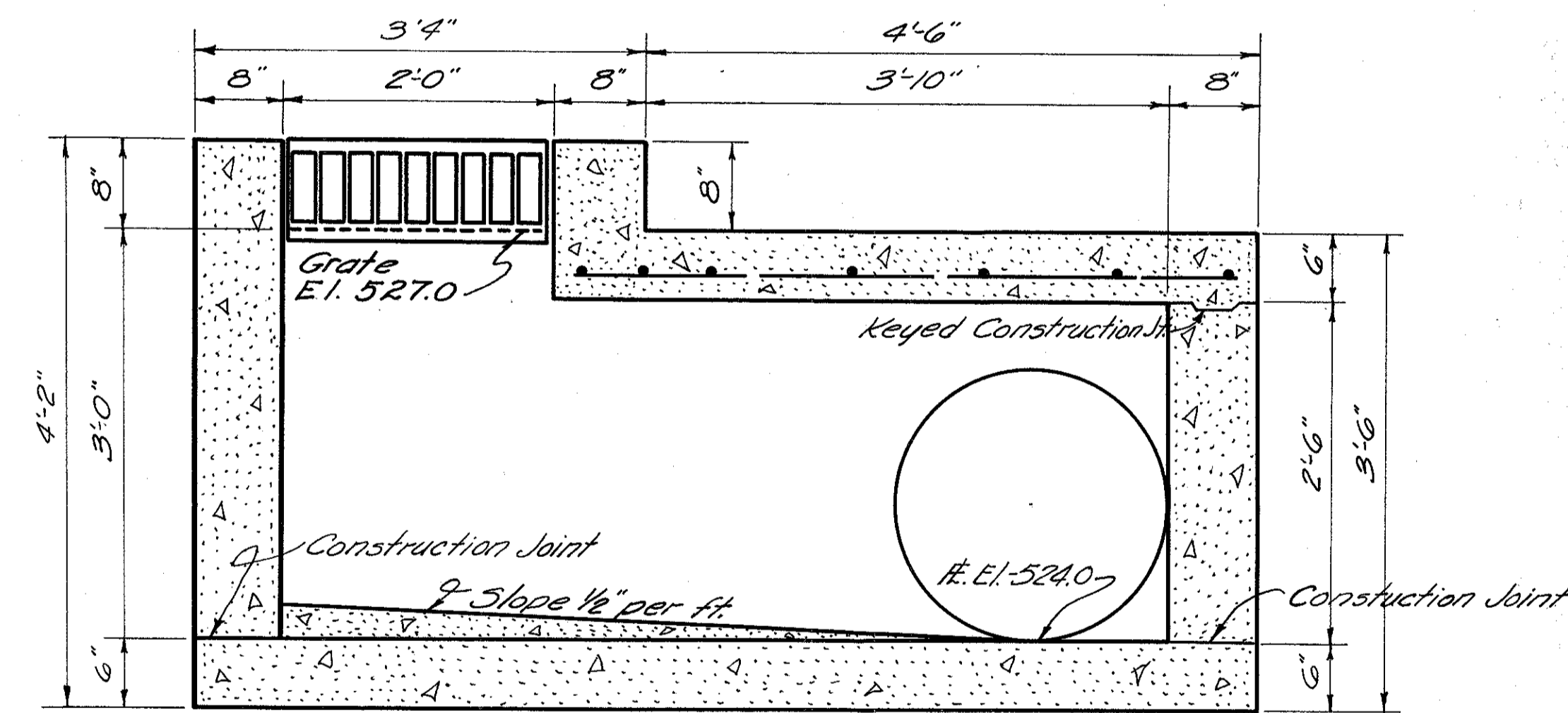


SECTION

CATCH BASIN EXTENSION  
STA. 34+20  
Scale 1"=1'-0"



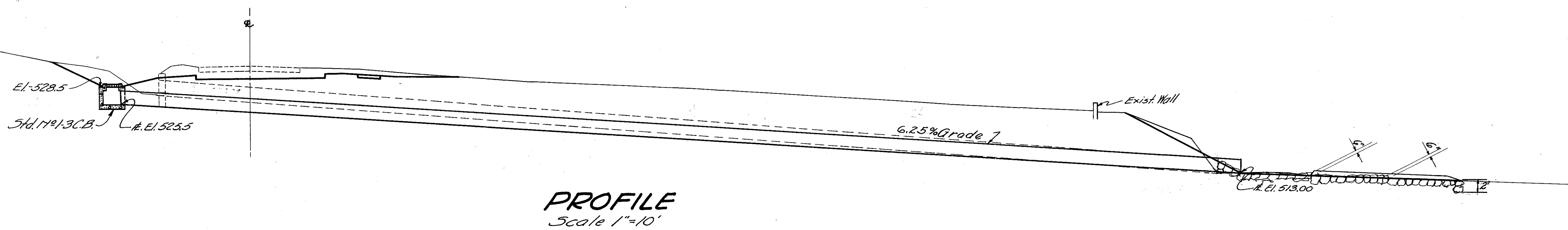
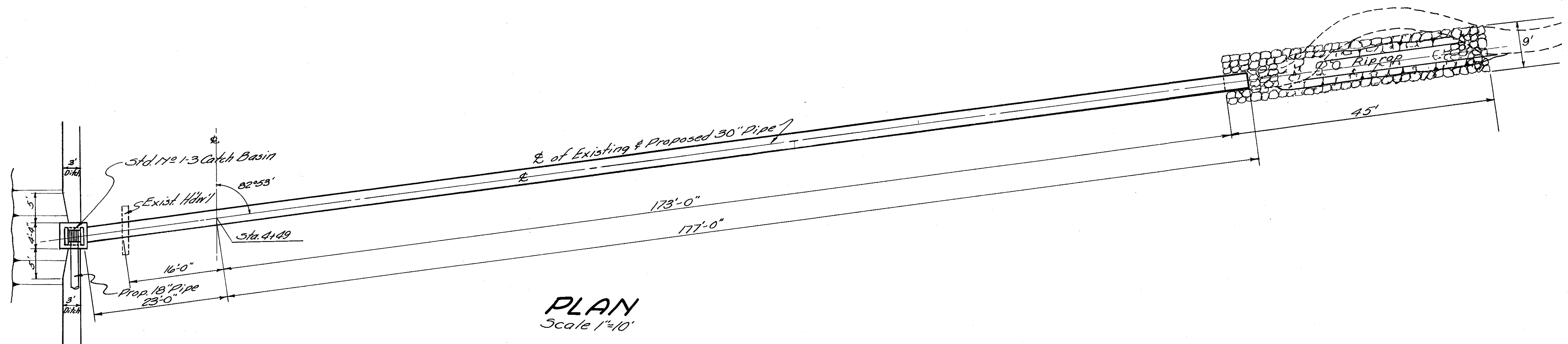
PLAN



SECTION

CATCH BASIN STA. 31+38 LT.  
Std. H&I-2A Catch Basin Modified as shown  
Scale 1"=1'-0"



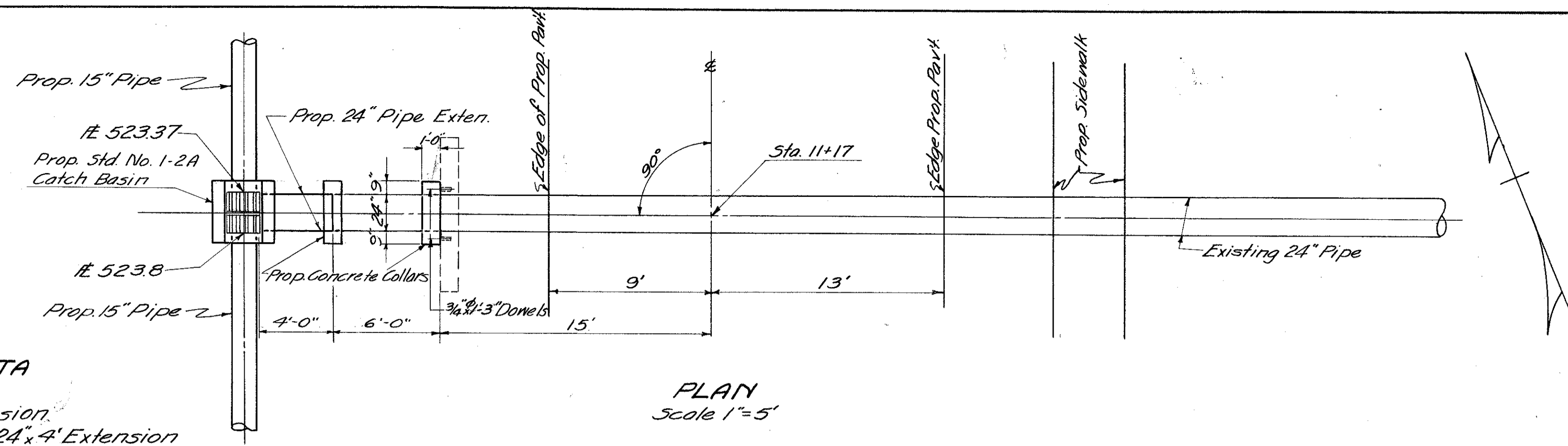


**CULVERT DATA**

Type: Pipe  
 Size: 30"x200'  
 Work Req'd: Remove Existing Headwall and remove and dispose of existing 30"x189" V.S.P. Build new 30"x200' Culvert with one Std. 11#1-3 Catch Basin as shown (Std. Dwg. I-8 C.B. 1-3# 1-4, Rev. 12-15-41) Place riprap in outlet channel as shown.

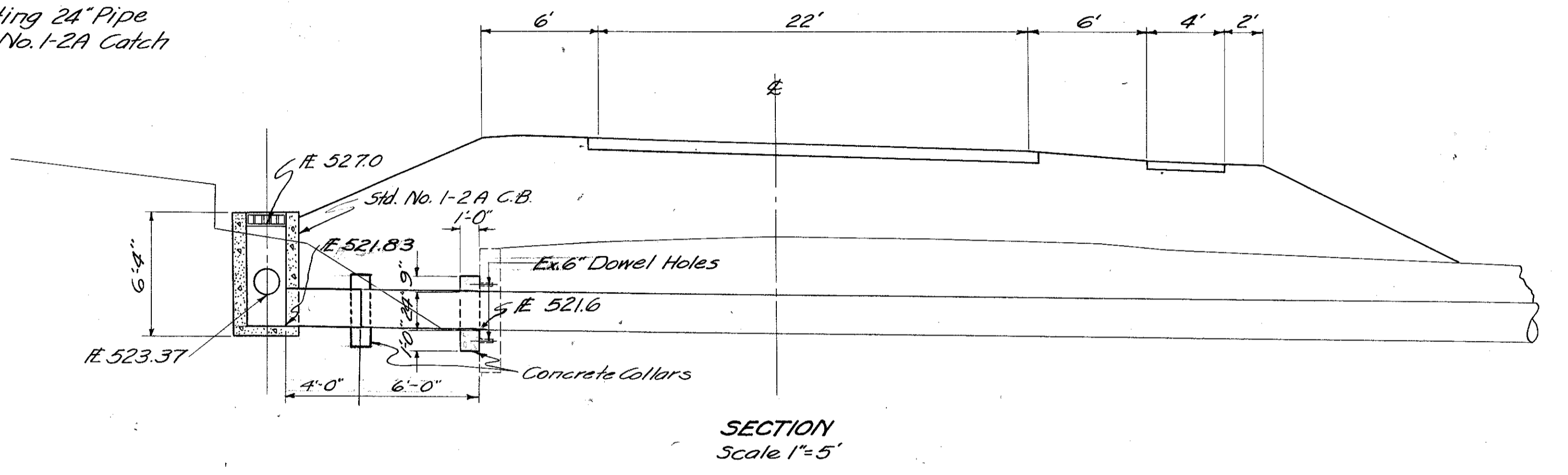
**ESTIMATED QUANTITIES**

Item E-2	Excavation for Structure	258 Cu. Yds.
Item E-3	Channel Excavation	3 Cu. Yds.
Item I-10	Riprap (Type "A")	45 Sq. Yds.
Item I-8	Std. 11#1-3 Catch Basin	1 Each
Item S-24	Removal of Existing Structure	Lump
Item S-27	30" Pipe for Roadway Culvert	200 Lin. Ft.



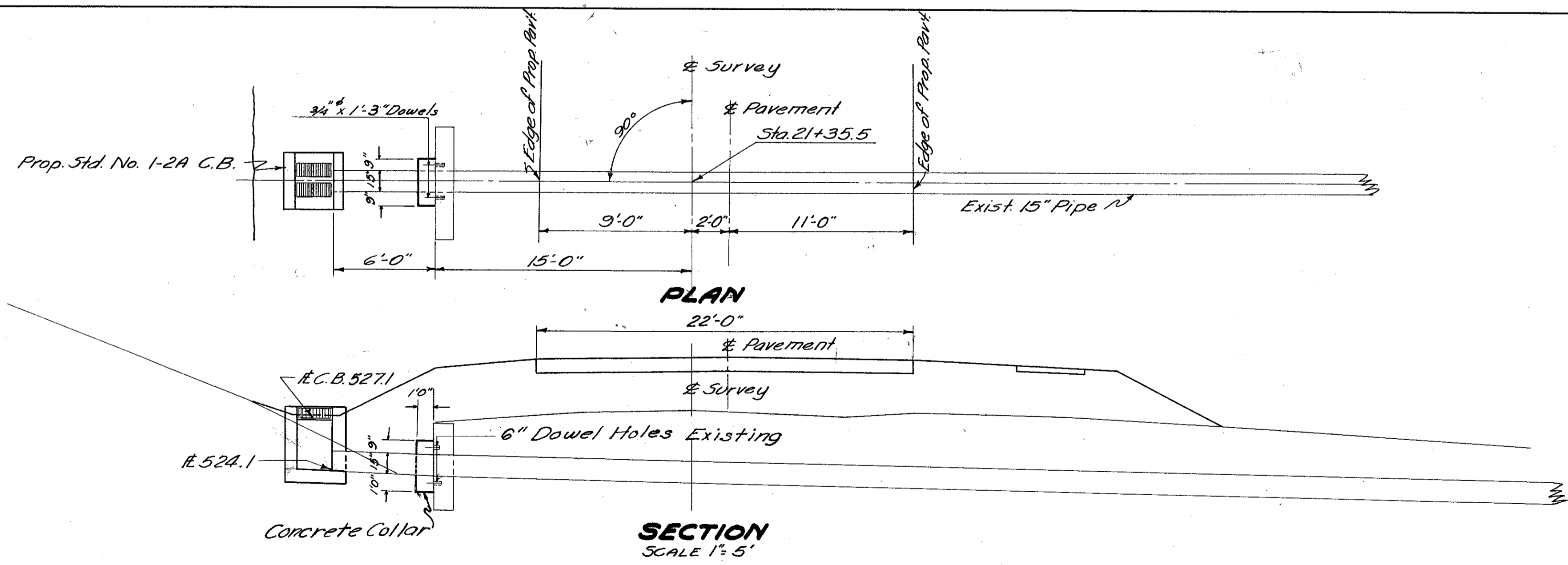
**CULVERT DATA**  
 TYPE: Pipe  
 SIZE: 24" x 4" Extension  
 WORK REQ'D: Build 24" x 4" Extension on the left to existing 24" Pipe Culvert and 1-Std. No. 1-2A Catch Basin.

**ESTIMATED QUANTITIES**  
 Item E-2 Excavation for Structure 5 Cu. Yds.  
 Item I-8 Catch Basin Std. No. 1-2A 1 Each  
 Item S-27 24" Pipe for Roadway Culvert 4 Lin. Ft.  
 Item S-1 Concrete for Structure Class "C" 1.0 Cu. Yd.  
 Item S-4 Reinforcing Steel (3/4" Dowels) 8 Lbs.



**PIPE CULVERT EXTENSION STA. 11+17**

2



**CULVERT DATA**  
 TYPE: Std. No. 1-2A Catch Basin  
 WORK REQ'D: Build Std. No. 1-2A Catch Basin Left of §

**ESTIMATED QUANTITIES**  
 Item I-8 Catch Basin Std. No. 1-2A 1 Each  
 Item S-1 Concrete for Structures Class "C" 0.3 Cu. Yd.  
 Item S-4 Reinforcing Steel 8 Lbs.

**CATCH BASIN LT. § STA. 21+35.5**

**STRUCTURES STA. 11+17 & STA. 21+35.5**

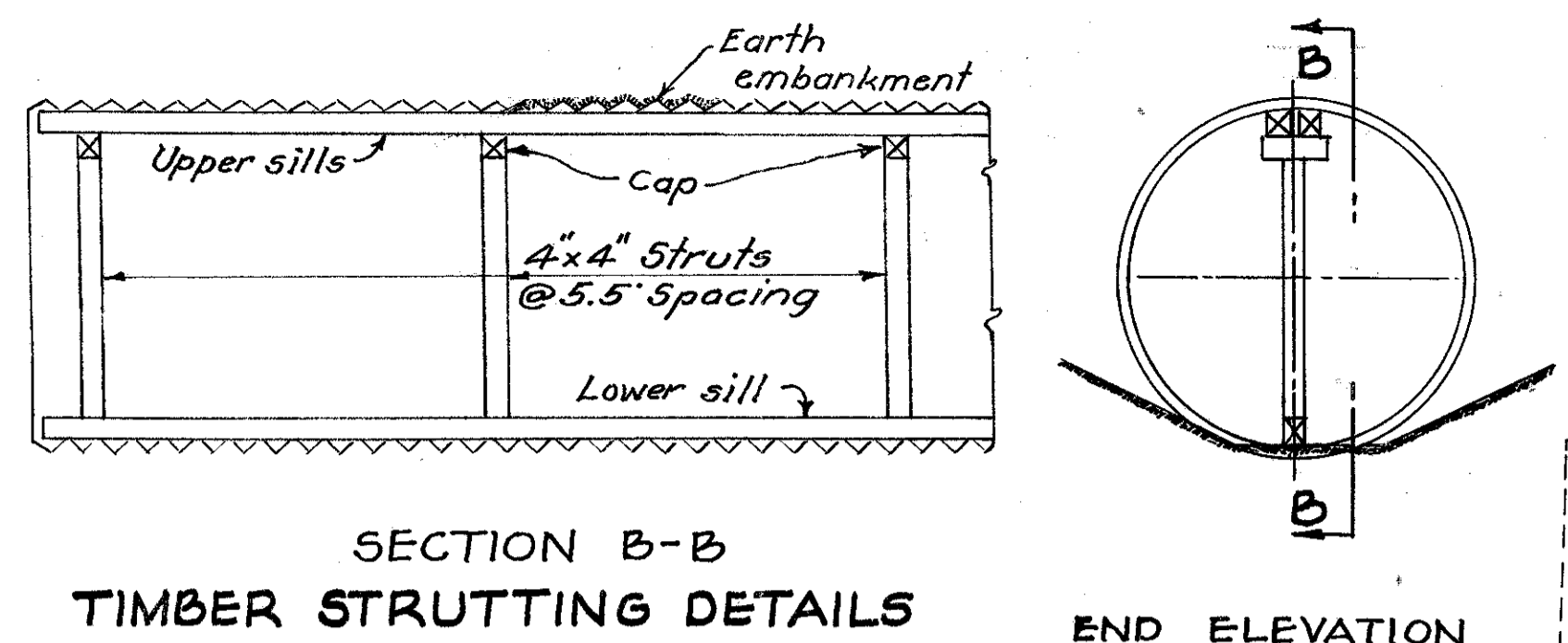
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**SCIOTO COUNTY**  
**SCI-239-0.00**

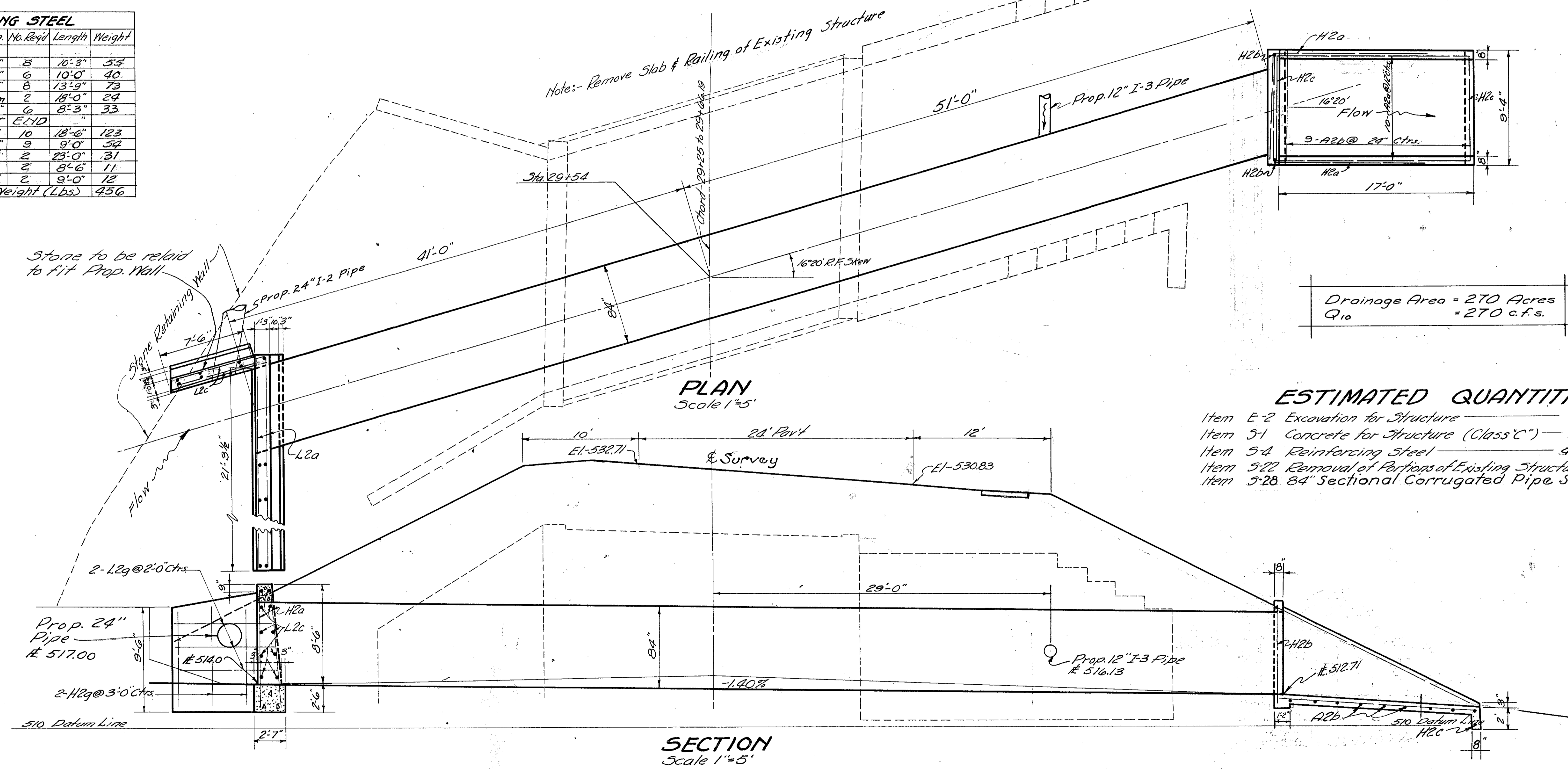
**CULVERT DATA**

Type: Pipe  
Size: 84" x 92"  
Work Req'd: Build Std. 84" x 92" Pipe Culvert and 2' Headwalls as shown. Remove Portions of Existing Structure. (Slab & Railing)  
See Supplemental Details for Small Boxes & Pipe Culverts.



**MINIMUM GAGES**  
1 1/2" depth corrugations 8 gage  
1 3/4" depth corrugations 10 gage  
2" depth corrugations 10 gage  
Note: Bottom Plates shall be at least two gages heavier than the remainder of the plates.

REINFORCING STEEL						
Mark	Size	Shape	Sp'g.	No. Req'd	Length	Weight
H2a	1/2"	Str.	3'-0"	8	10'-3"	55
H2b	"	"	3'-0"	6	10'-0"	40
L2a	"	"	2'-0"	8	13'-9"	73
L2b	"	As shown		2	18'-0"	24
L2c	"	"	2'-0"	6	8'-3"	33
OUTLET END						
A2a	1/2"	Bent	12"	10	18'-6"	123
A2b	"	Str.	24"	9	9'-0"	52
H2a	"	Bent	5/8"	2	23'-0"	31
H2b	"	Str.	5/8"	2	8'-6"	11
H2c	"	"	5/8"	2	9'-0"	12
Total Weight (Lbs) 456						



Drainage Area = 270 Acres  
Q<sub>10</sub> = 270 c.f.s.

- ESTIMATED QUANTITIES**
- Item E-2 Excavation for Structure — 45 Cu. Yds.
  - Item 3-1 Concrete for Structure (Class C) — 28 Cu. Yds.
  - Item 3-4 Reinforcing Steel — 456 Lbs.
  - Item 3-22 Removal of Portions of Existing Structure — Lump
  - Item 3-28 84" Sectional Corrugated Pipe Structures 92 Lin. Ft.

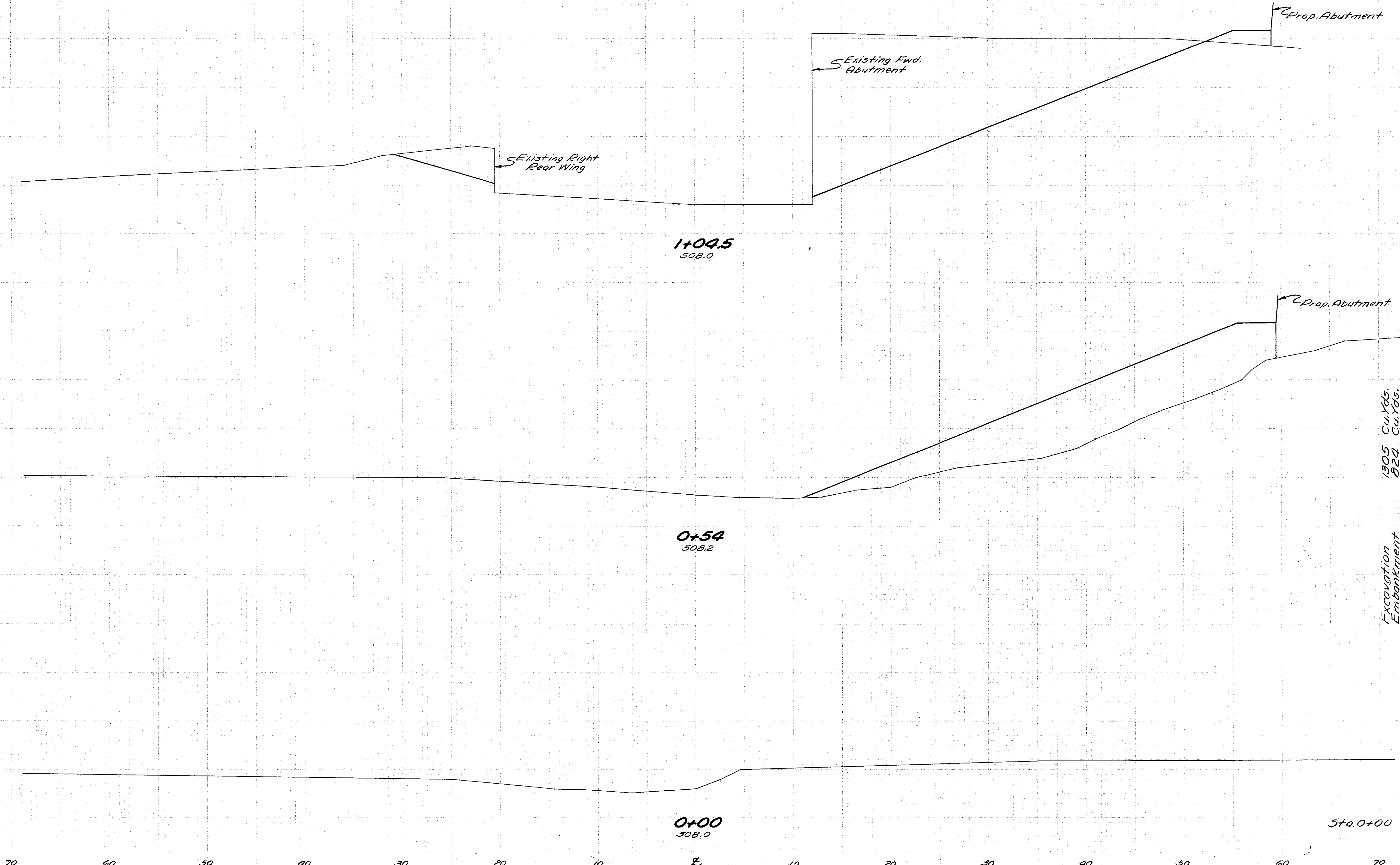
SCIOTO COUNTY  
SCI-239-0.00

Seeding	
End Width	Sq. Yds.
63	1319
328	
54	
162	
0	

Item L-9 Seeding & Protecting Type "A" 1319 Sq. Yds.

End Area		Volume	
Cut	Fill	Cut	Fill
362	8	338	232
0	240	0	240
0	240	0	240
0	0	0	0

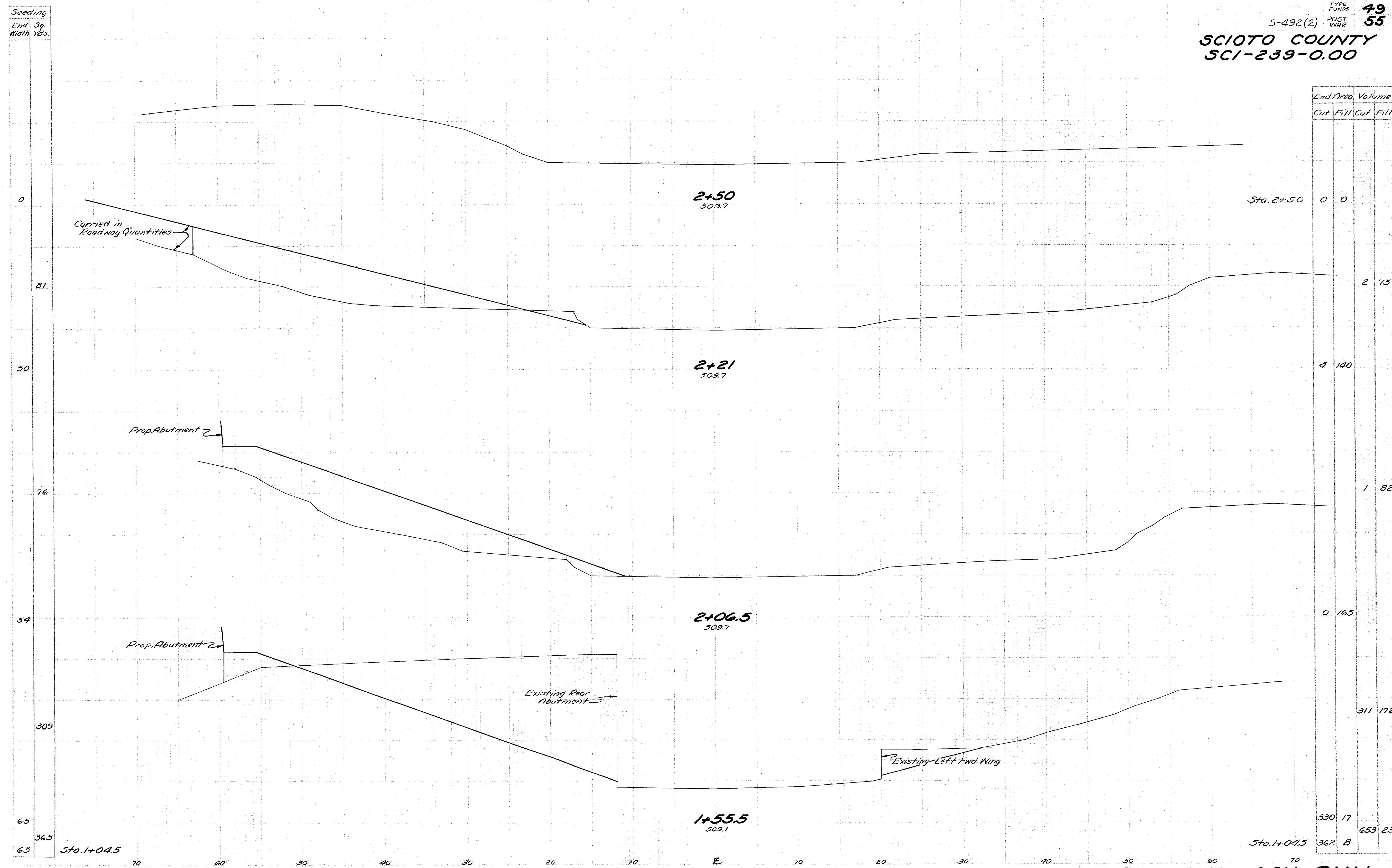
Excavation 1905 Cu. Yds.  
Embankment 824 Cu. Yds.



CHANNEL SECTIONS-COX RUN



SCIOTO COUNTY  
SCI-239-0.00



FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	5-492 (2)	POST WAR



**SCIOTO COUNTY**  
**SCI-239-0.00**

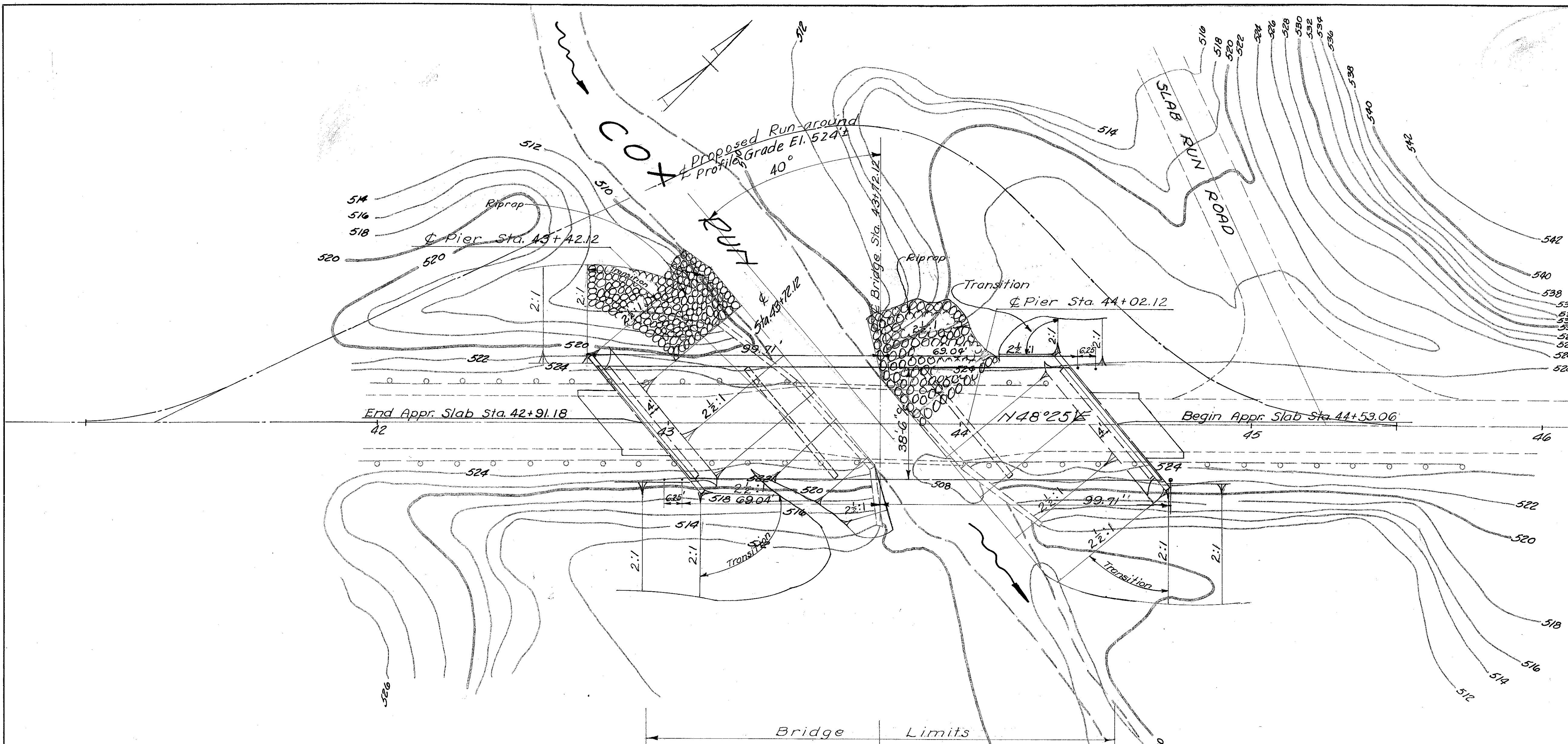
0.8 Mi. ± from Jct. Rt. No. 52

**EXISTING STRUCTURE**

Type: Concrete Beam with concrete abuts.  
Span: 30' Clear Roadway: 23'-8"  
Loading: H-15 Skew: 40° R.F.  
Surface Course: 3" Brick on 1" Sand Cushion  
TO BE REMOVED

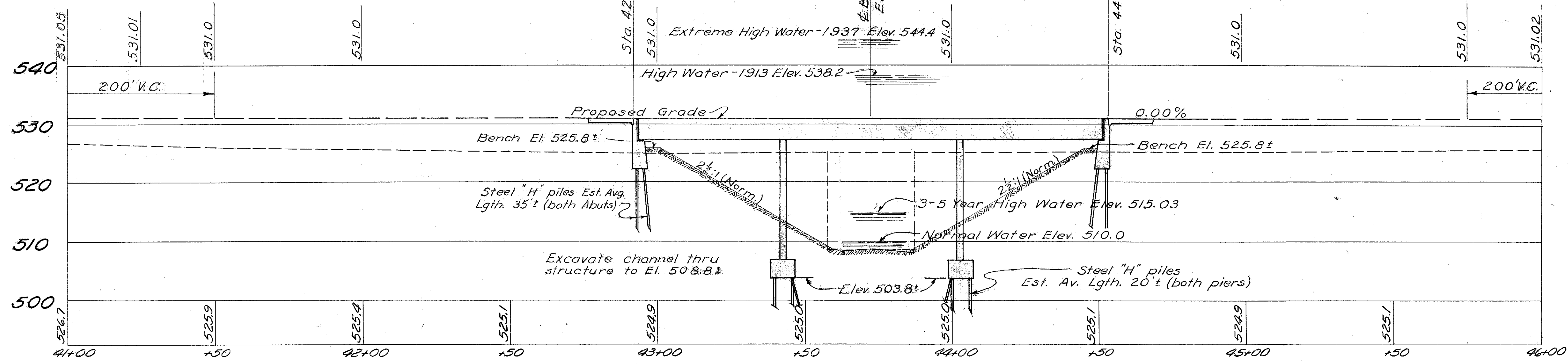
**PROPOSED STRUCTURE**

TYPE: Continuous steel beams with concrete deck and substructure.  
SPAN: 48'-60'-48" c/brgs.  
ROADWAY: 38'-0" f/f guard rails  
LOADING: S-15-46  
SKEW: 40° R.F.  
SURFACE COURSE: Bituminous  
APPR. SLABS: As shown



Clears 3 to 5yr. H.W. 12.2' ±

**SOUNDING NOTE**  
Estimated Avg. Piling Lengths determined by Rod Soundings.



DRAINAGE AREA 3.2 SQ. MI.

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
BUREAU OF BRIDGES

**SITE PLAN**  
**BRIDGE NO. SC-239-08**  
OVER COX RUN

SCIOTO CO. S.R. 239  
SCI-239-0.00 STA. 43+72.12  
SCALE (1"=20')

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
BOWEN	RITCHEY	C.F.B.	C.F.B.	G.E.S.	G.W.A.

Revised 5-25-49 BFG WMR 5-24-49



### GENERAL NOTES

REFERENCE shall be made to Suppl. Spec. T-110 revised 8-3-36. EXISTING SUPERSTRUCTURE shall be removed and disposed of as directed by the Engineer. Suitable material may be used as bank protection.

EXISTING SUBSTRUCTURE shall be removed to proposed ground line but not lower than top of existing concrete struts in channel. Suitable material may be used as bank protection.

EXCAVATION quantity includes the removal of fill material between top of earth bench and bottom of abutment cap.

PILING shall be driven to shale with a minimum bearing capacity of 40 tons for piers and 25 tons for abutments.

WELDING shall be class "A". Any welds shown as field welds may, at the option of the Contractor, be made in the shop.

GUARD RAIL: Transition between rail height on bridge and on approaches shall be made in a distance of 100 ft. at each end of bridge. Field paint for rails and posts shall be same color as on approaches. Tabulated railing quantity includes posts and rails and is for length between bridge limits. Portions of 3"x3"x1/4" angle extending beyond bridge limits included in price per lin. ft. of bridge railing.

DECK CONSTRUCTION PROCEDURE: Deck slab shall be placed in sections between transverse construction joints in the numerical order and in the direction shown on the steel framing plan.

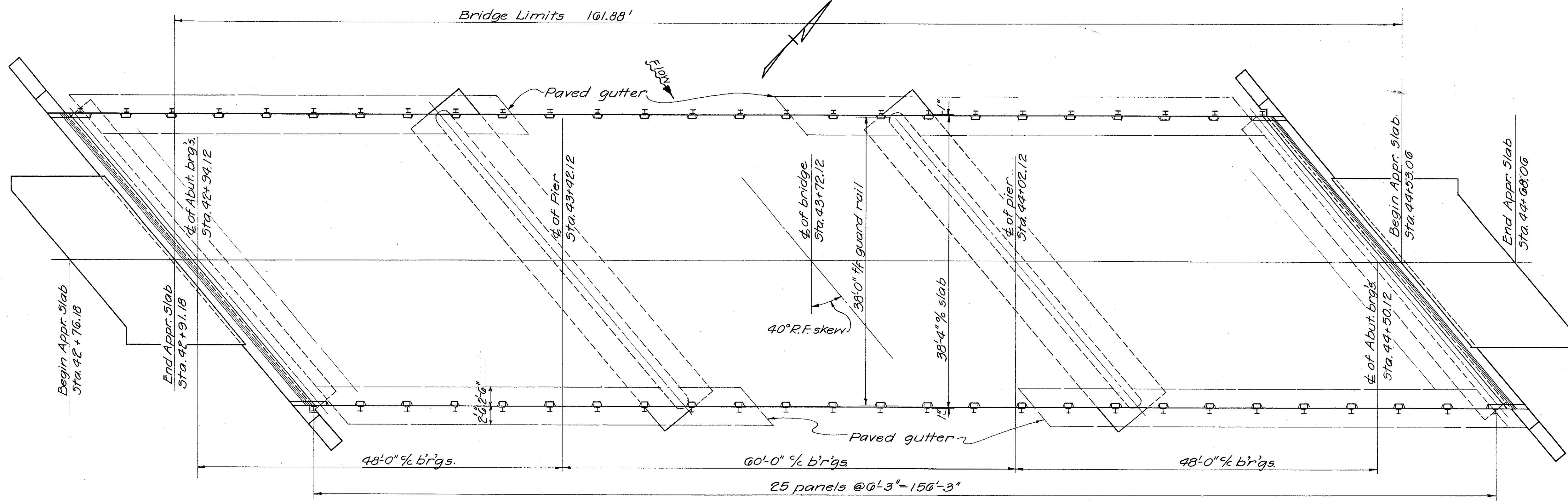
BEARING PLATES: Cast leaded bronze sliding plates and sheet lead are included with structural steel for payment.

CAMBER: No shop camber will be required but beams shall be so fabricated that any curved beams will be placed convex flange up. Dead load deflection = 1/4".

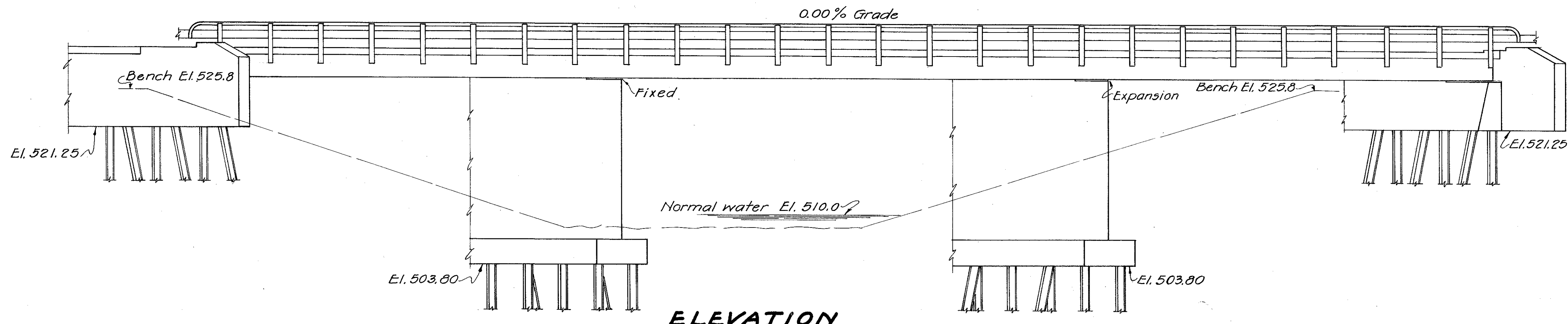
STRINGER SPLICE WELDING PROCEDURE:  
1. At first pier, weld bottom flange splice plate to beam on middle span side of joint only.  
2. Raise end of beam at first abutment 3/4".  
3. Weld beam flanges and web at first pier.  
4. Weld top flange splice plate at first pier.  
5. Complete welding of bottom flange splice plate at first pier.  
6. Repeat steps 1 to 5 inclusive at second pier and second abutment.  
7. Lower ends of beams at both abutments.

PAVED GUTTER: A concrete gutter 5' wide, 6" thick, depressed 6" at center shall be placed on earth bench and down the slopes to normal water line at both abutments centered under edge of deck. 1/2" # bars @ 1'-6" ctrs. both directions included in price per lin. ft.

TEMPORARY RUN-AROUND BRIDGE AND APPROACHES shall be paid for as lump sum under Item 5-15, except furnishing and placing approach surface course. Surface course aggregate shall be paid for per cu. yd. and be governed by Suppl. Spec. T-110, except that rolling will be required. Calcium chloride (M-10), applied to surface course, shall be paid for per ton. Amount of surface material applied and paid for to be as directed by the Engineer. Embankment to be substantially in accordance with E-105 with side slopes not steeper than 1 1/2:1. Surface course aggregate (T-110) and Calcium Chlorid (M-10), included in roadway quantities for payment.



PLAN



ELEVATION

ESTIMATED QUANTITIES				'AS BUILT'					
Item	Total	Unit	Description	Abut.	Pier	Superstr.	General	Change Order	Final Quantity
E-2	Lump	Sum	Cofferdams, cribs and sheeting				Lump		Lump
E-2	538	Cu. Yd.	Unclassified excavation	148	390			#1, -68	470
E-3	1305	Cu. Yd.	Channel excavation				1305		
I-10	256	Sq. Yd.	Type "A" riprap				256		
5-1	123	Cu. Yd.	Class "C" concrete, superstructure			123		#1, -16.8	106.2
5-1	142	Cu. Yd.	Class "E" concrete, abutments	142					
5-1	170	Cu. Yd.	Class "E" concrete, pier walls		170			#1, -1.2	168.8
5-1	103	Cu. Yd.	Class "E" concrete, pier footings		103				
5-3	679	Sq. Yd.	Type "C" waterproofing			679		#1, -144.5	534.5
5-4	53477	Lb.	Reinforcing steel	7129	6547	39762	39	#1, -4985	48,492
5-7	147700	Lb.	Structural steel			147700		#1, -4100	143,600
5-8	147700	Lb.	Field painting of structural steel			147700		#1, -4100	143,600
5-14	323.76	Lin. Ft.	Railing (Type I-15.13 guard rail with steel angle & posts)			323.76		#1, -22	301.76
5-15	Lump	Sum	Temporary run-around bridge and approaches				Lump		Lump
5-16	Lump	Sum	First test pile				Lump		Lump
5-18	1480	Lin. Ft.	Steel piling 12" BP @ 53 lb.	840	640				1480
5-24	Lump	Sum	Removal of existing structure				Lump		Lump
I-14	236	Lin. Ft.	Concrete paved gutter				236		236
T-35	47	Cu. Yd.	Asphaltic concrete surface course Type "A" or "C"			47		#1, -6	41

Note: 'As Built' quantities shown in the column at left are not correct, as work was terminated April 26, 1949. The project was re-let on July 19, 1949. The column at right shows the correct final 'As Built' corrections on this bridge.  
RHA 2/14/51

AS BUILT	
Change Order	Final Quantity
	Lump Sum
	538
#5, +105	1410
	256
	123
	142
	170
	103
	679
	53,477
	147,100
	147,100
	323.76
	Lump Sum
	Lump Sum
#5, -55.18	1424.82
	Lump Sum
#5, -7	229
	47

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

### GENERAL PLAN & ELEVATION NOTES & QUANTITIES

BRIDGE NO. SC-239-08  
OVER COX RUN

SCIOTO COUNTY  
SCI-239-0.00

S.R. 239  
STA. 43+72.12

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
		KST		BFG	5-25-49	

Revised As-Built  
RHA 2-14-51

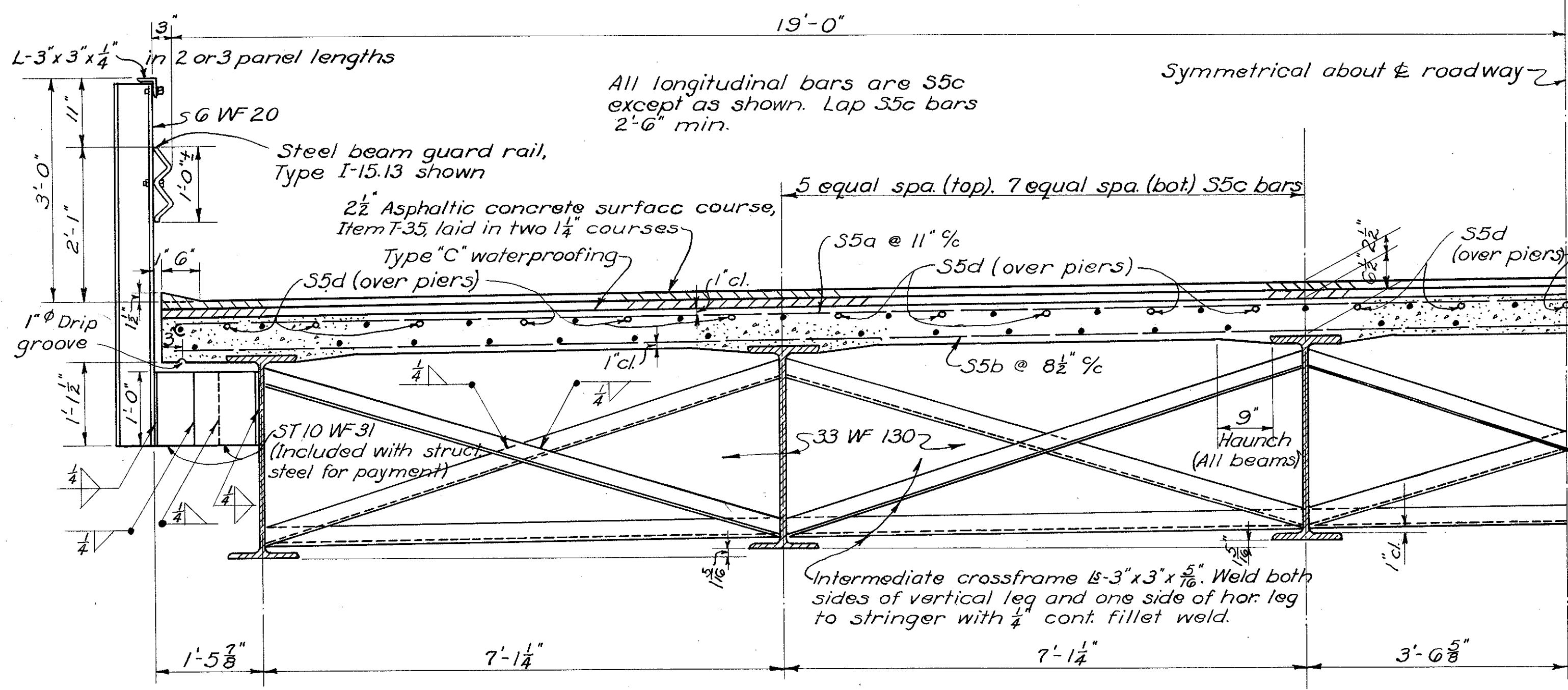




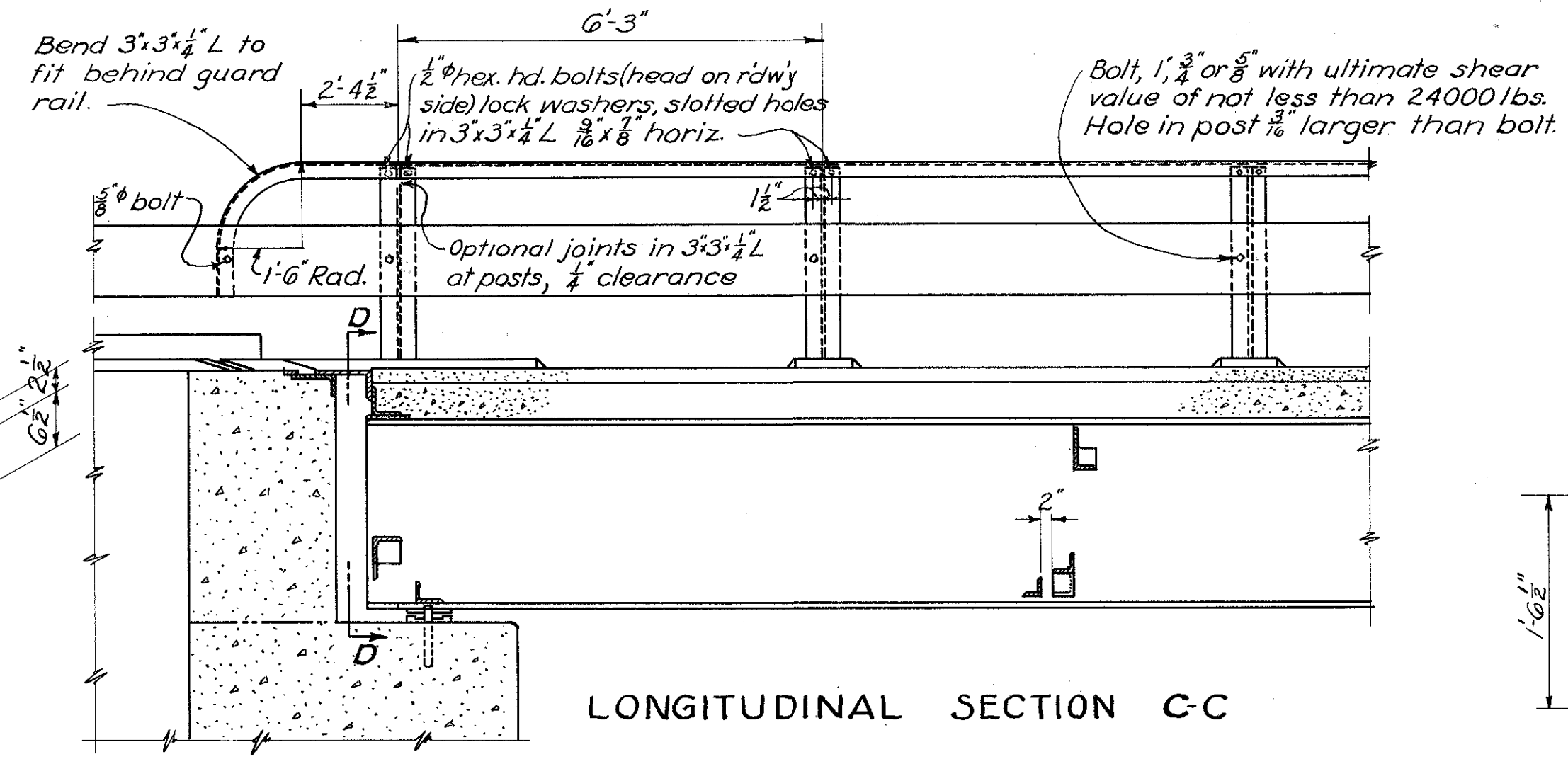


FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	3-492(2)	POST WAR

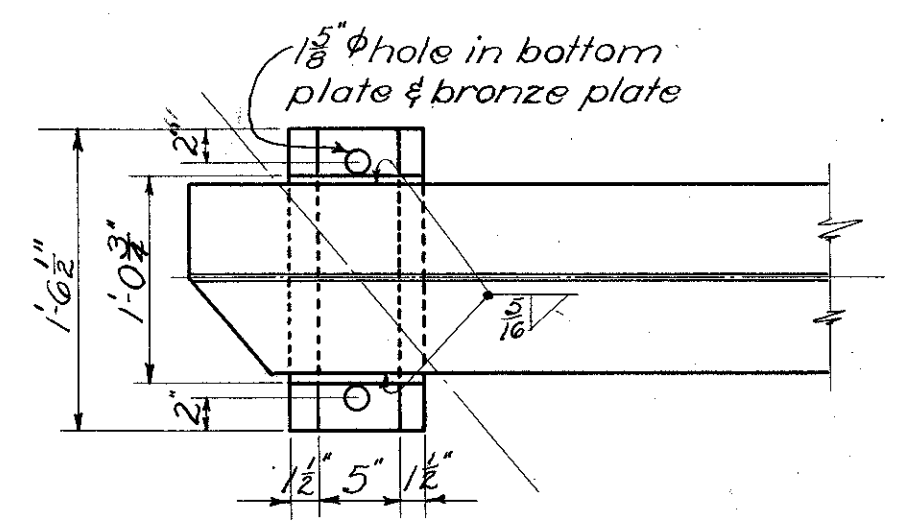
SCIOTO COUNTY  
SCI-239-0.00



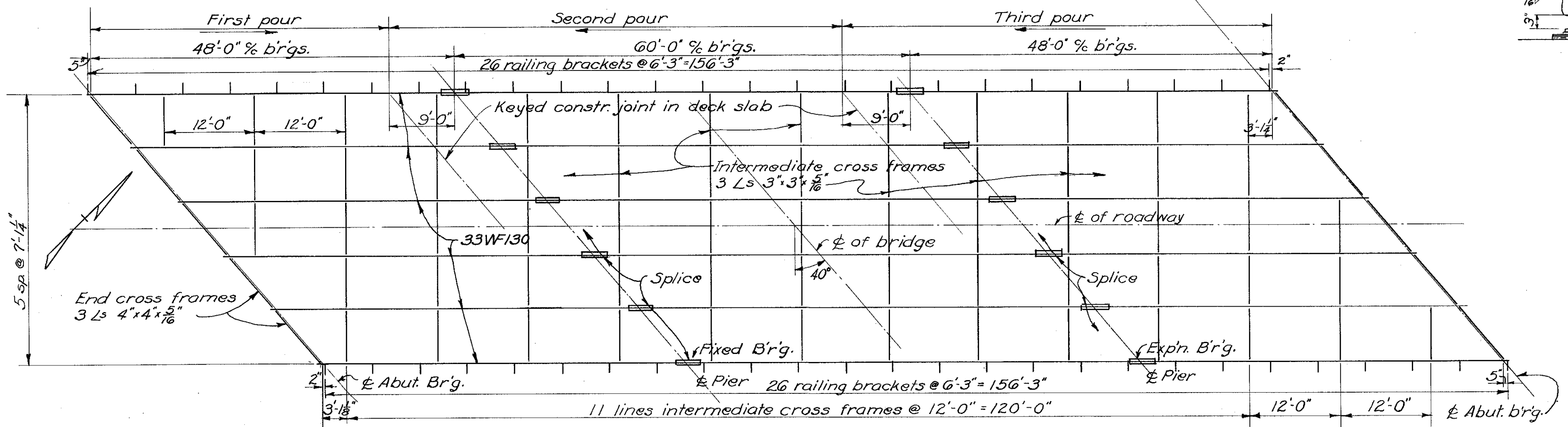
TRANSVERSE HALF SECTION  
Normal to Roadway



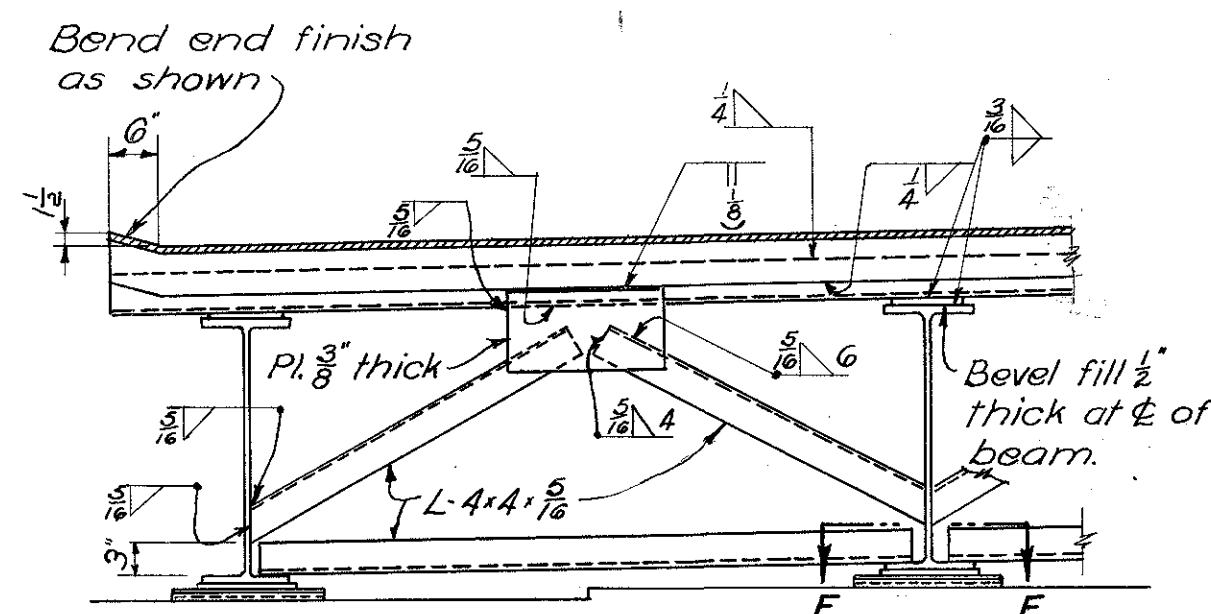
LONGITUDINAL SECTION C-C



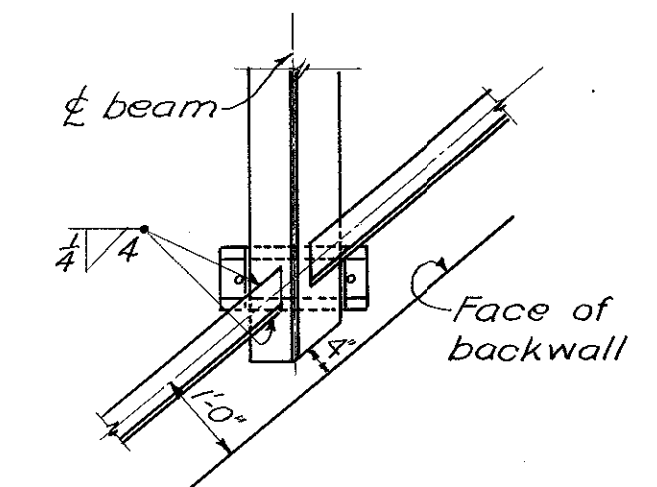
ABUTMENT BEARING PLATES



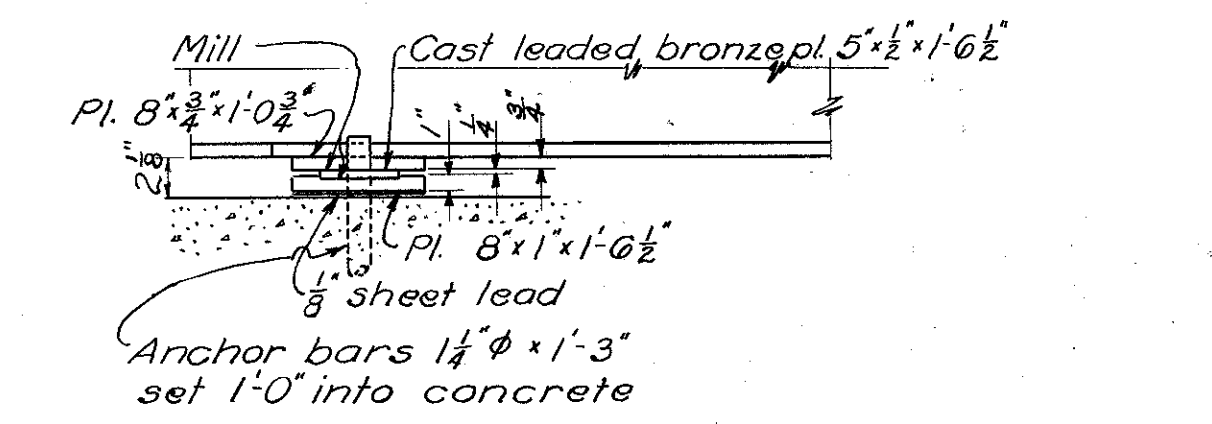
STEEL FRAMING PLAN  
Slab pouring sequence shown



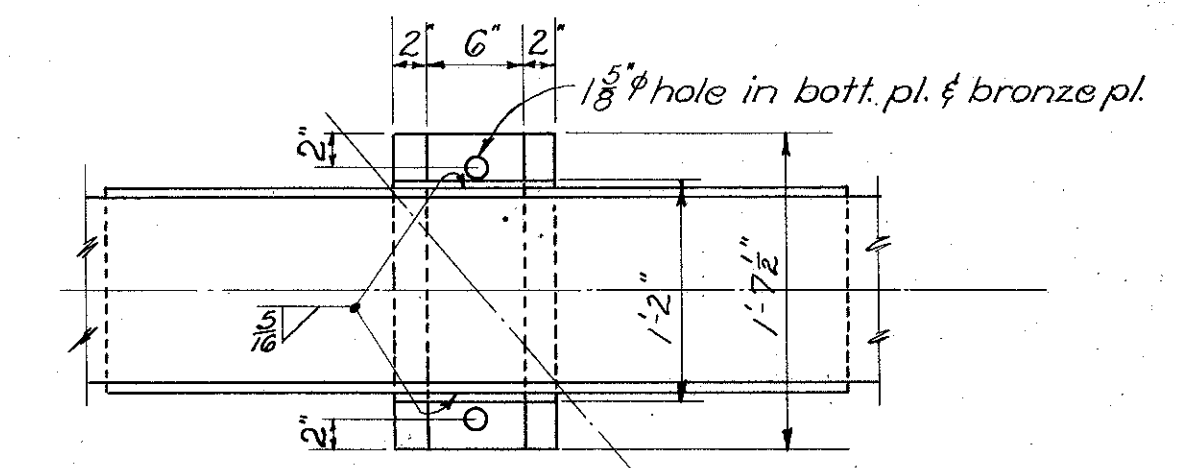
SECTION D-D  
(Normal to Roadway)



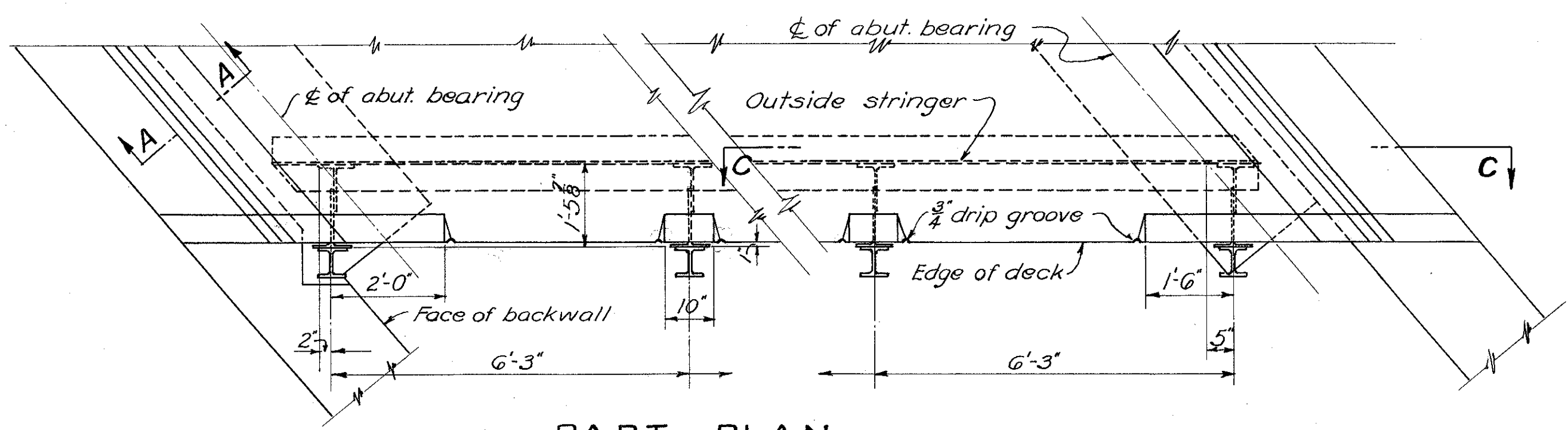
SECTION E-E



EXPANSION

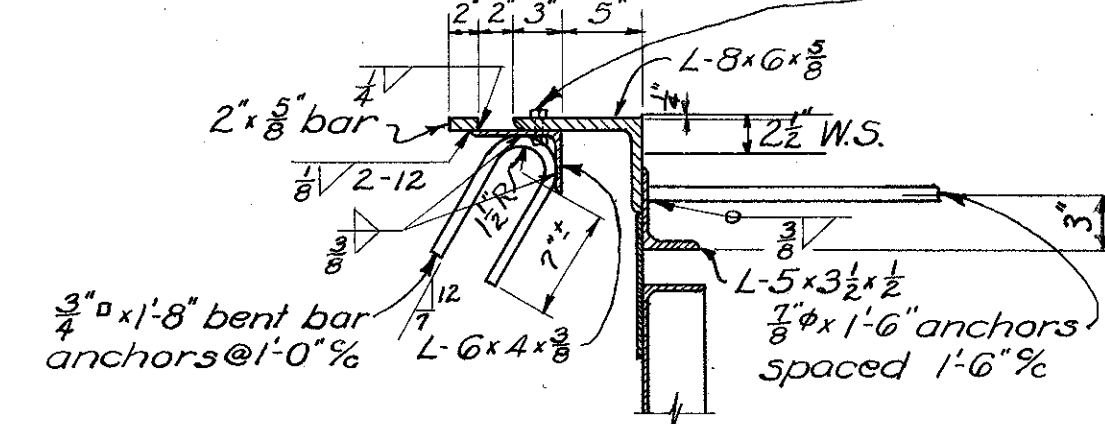


FIXED PIER BEARING PLATE

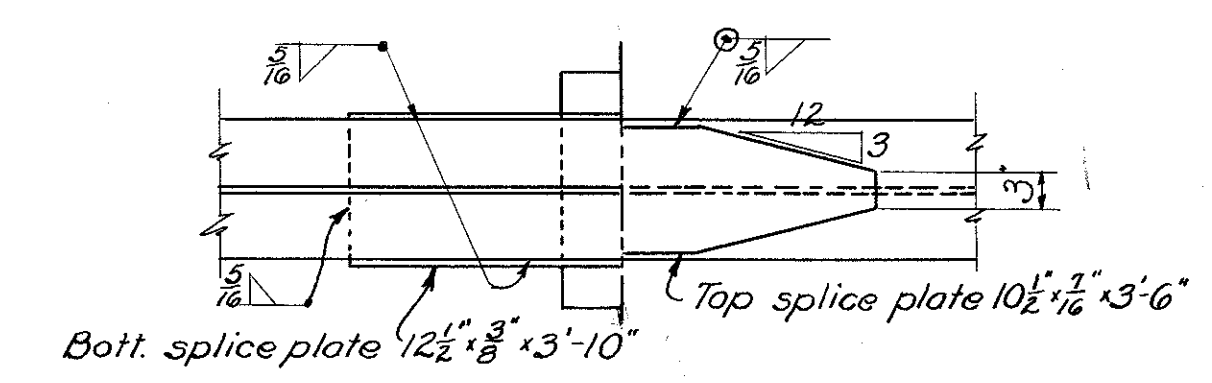


PART PLAN

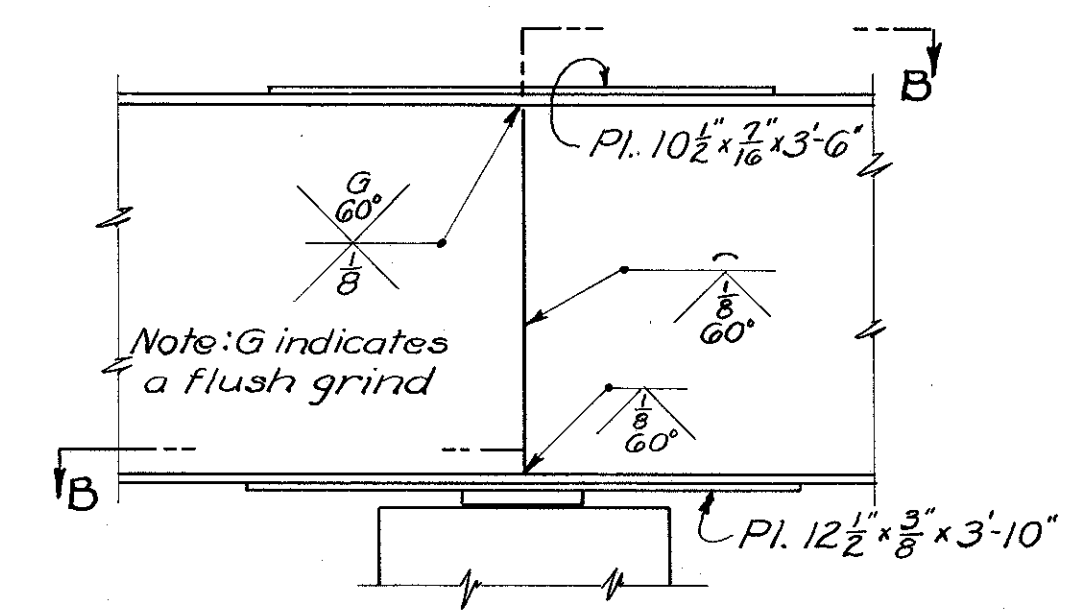
3/8\"/>



SECTION A-A  
End Finish



SECTION B-B



BEAM SPLICE DETAIL

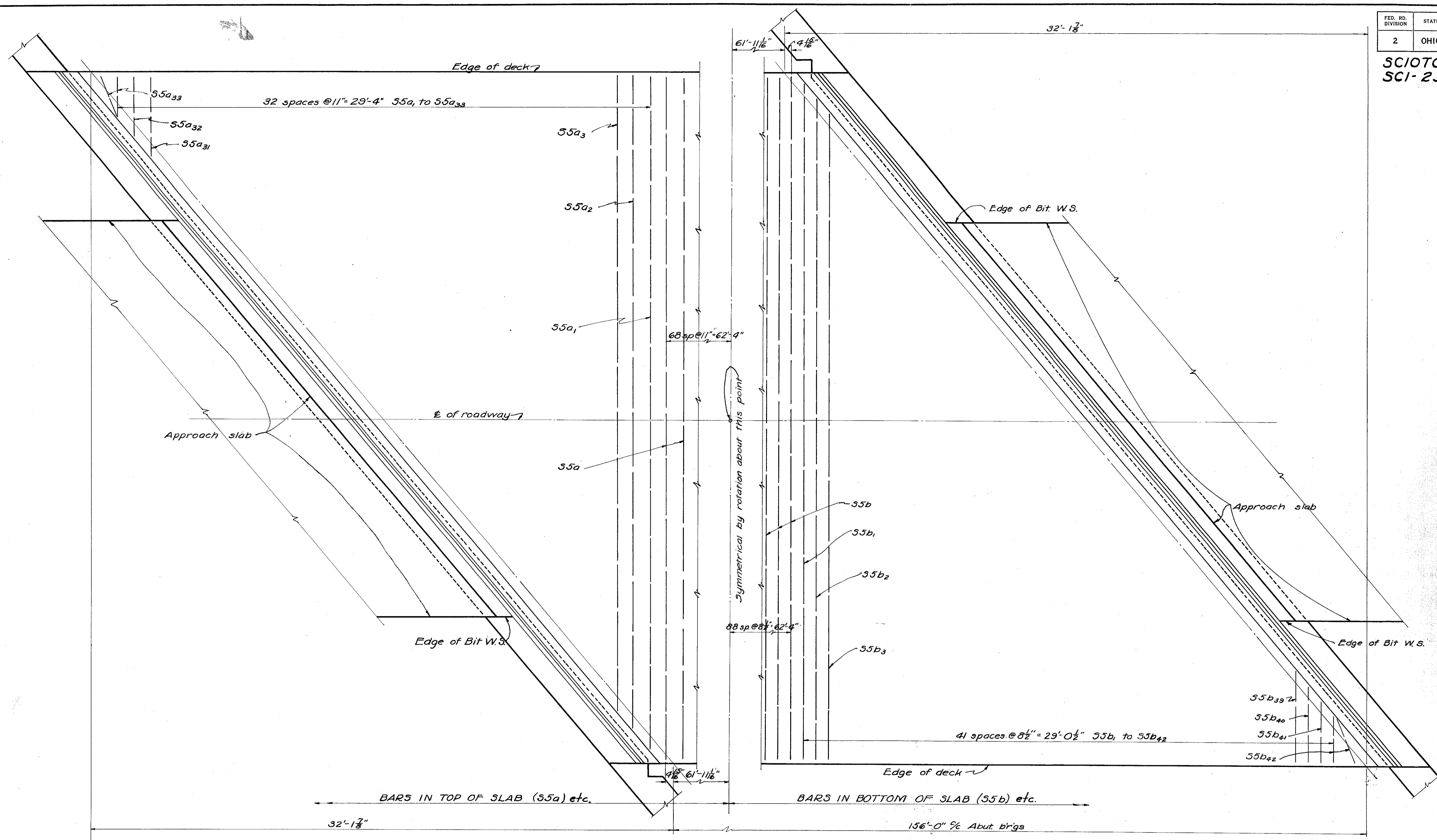
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES AND RAILROAD CROSSINGS					
SUPERSTRUCTURE DETAILS					
BR. NO. SC-239-08 OVER COX RUN					
SCIOTO CO. SCI-239-0.00			S.R. 239 STA. 43+72.12		
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
		J.D.J.			5-24-49



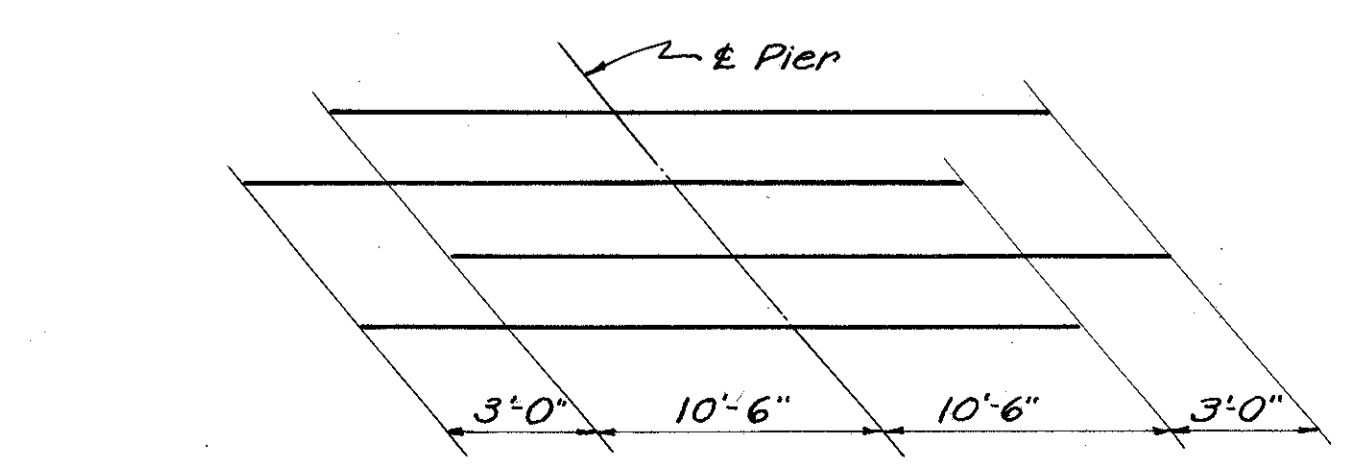
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	5-492 (2)	Post War

55  
55

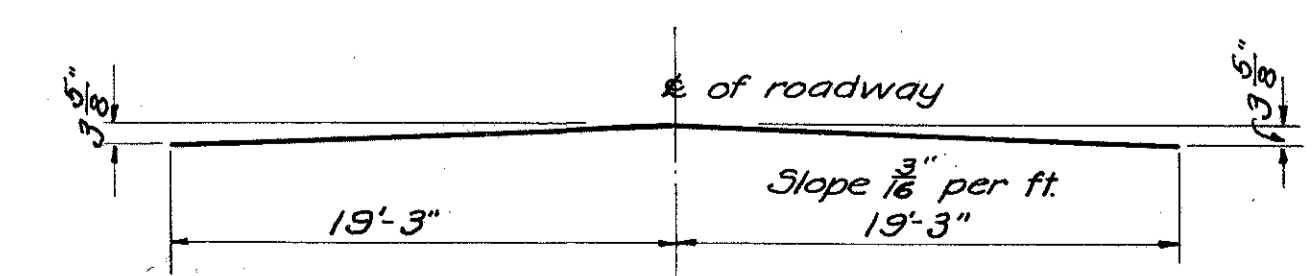
SCIOTO COUNTY  
SCI-239-0.00



**PART PLAN OF DECK**  
Showing Transverse Reinforcing  
Longitudinal Reinforcing Not Shown



**DIAGRAM SHOWING STAGGER OF S5d BARS OVER PIER**



**ROADWAY CROWN**

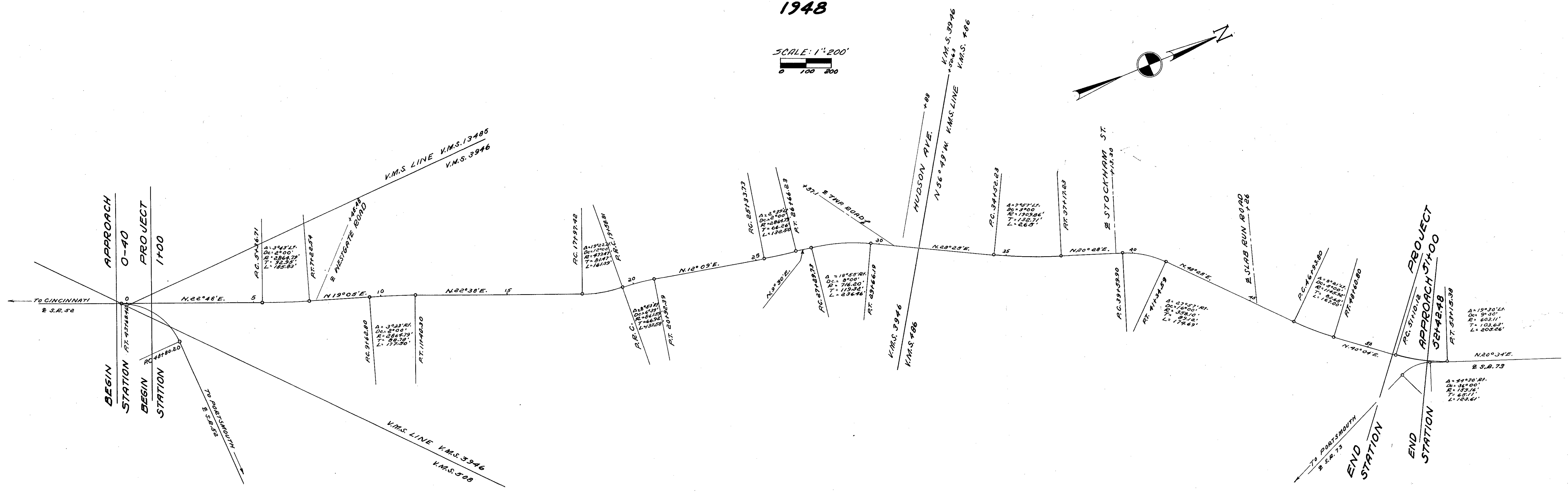
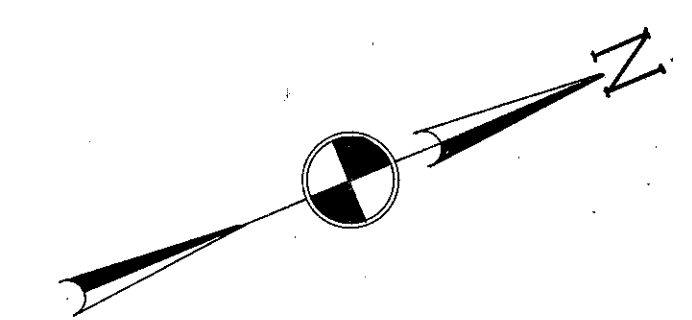
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES AND RAILROAD CROSSINGS					
<b>SLAB REINFORCING</b>					
BR NO. SC-239-08 OVER COX RUN					
Scioto Co. SCI-239-0.00			SR. 239 Sta 43+72.21		
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
mpf	mpf	BJ	NR	BFG	5-24-49

261-538-0.00  
 55  
 55

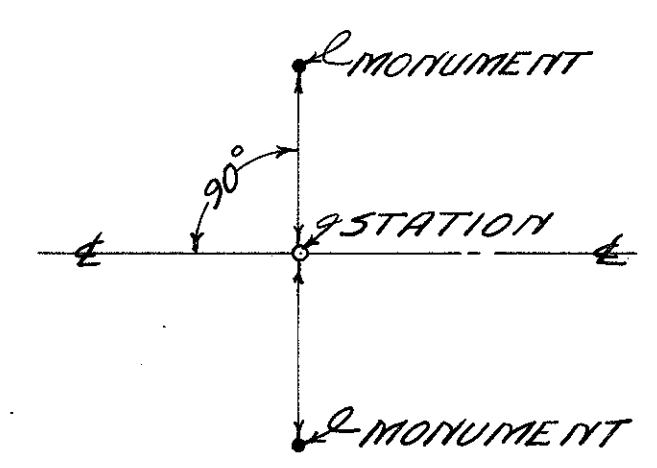
# LOCATION PLAN

SCIOTO COUNTY  
 S.R. 239-SCI-239-0.00  
 UNION MILLS - EXTENSION ROAD  
 WASHINGTON TOWNSHIP  
 V.M.S. Nos. 13485 & 3946  
 1948

SCALE: 1"=200'  
 0 100 200



DETAIL FOR SETTING REFERENCE POINTS



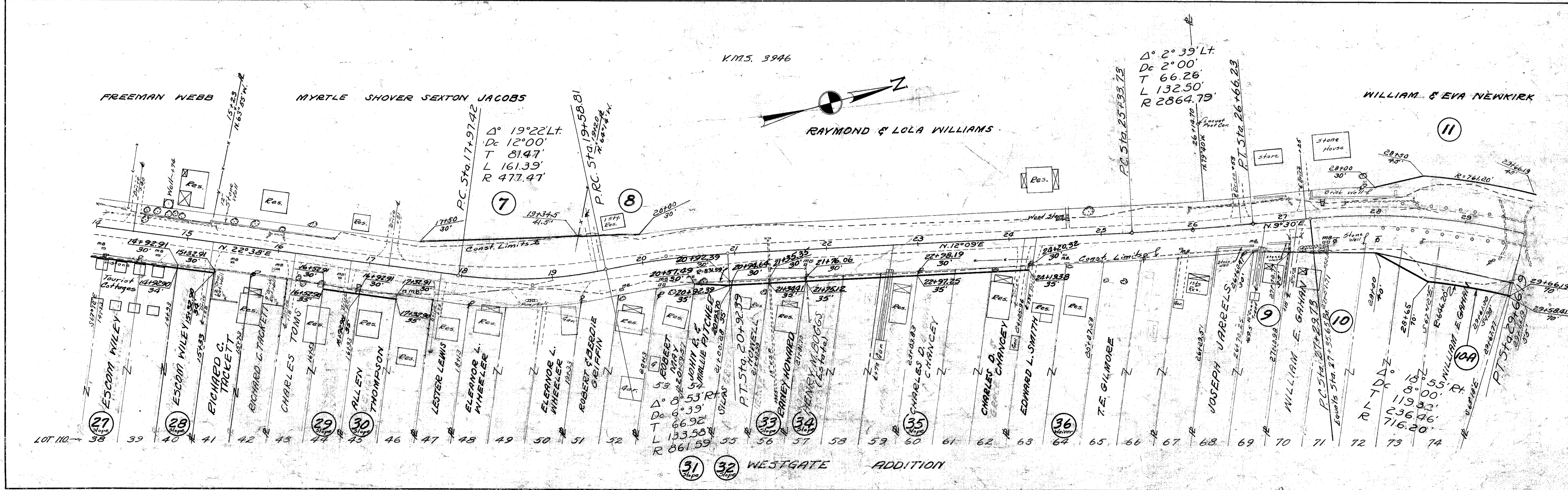
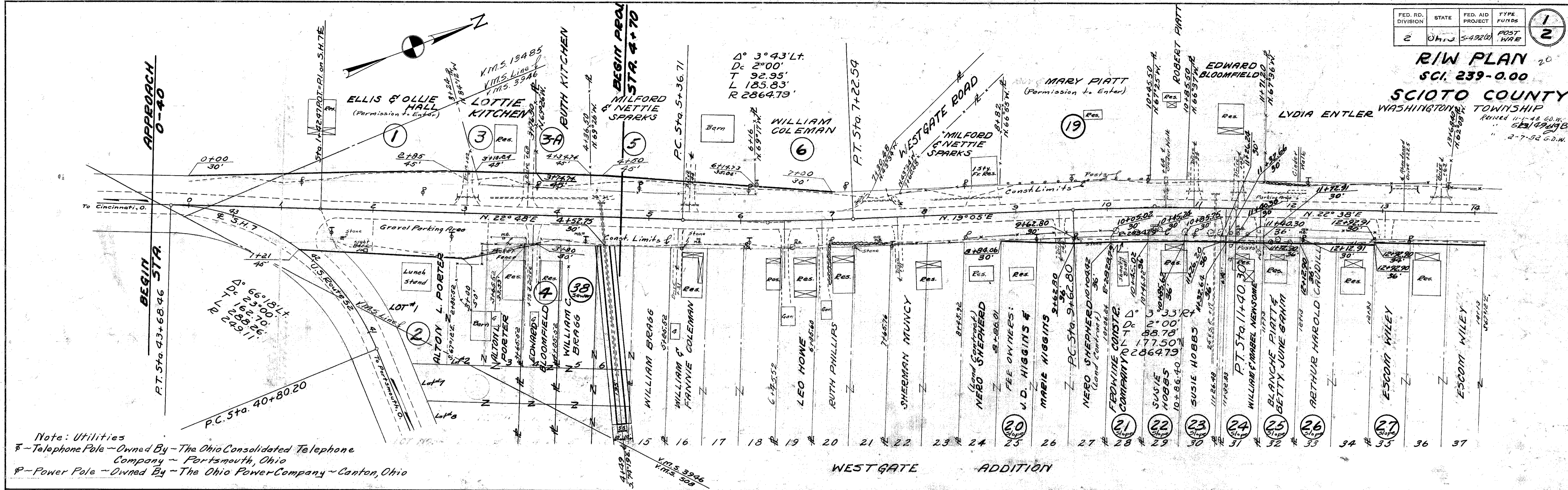
STATION	DISTANCE		STATION	DISTANCE	
	LEFT	RIGHT		LEFT	RIGHT
1+00	15'	20'	26+66.23	17'	28'
5+36.71	17'	27'	27+22.73	17'	28'
7+22.54	16'	27'	29+66.19	40'	28'
9+62.80	15'	27'	34+52.23	15'	27'
11+40.30	15'	27'	37+17.23	17'	28'
15+00	15'	27'	39+59.90	18'	28'
17+97.42	21'	27'	41+34.59	18'	40'
19+58.81	23'	27'	46+93.80	22'	28'
20+92.39	15'	28'	48+62.80	20'	26'
25+33.73	20'	27'	51+10.12	18'	28'

RECORDED IN SCIOTO COUNTY  
 RECORD OF SURVEYS-VOL. 9-PG. 56  
 NOVEMBER 29, 1948



FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE	DATE
2	OHIO	5-4920	POST WAR	1946

**R/W PLAN**  
 SCI. 239-0.00  
**SCIOTO COUNTY**  
 WASHINGTON TOWNSHIP  
 Revised 11-1-48 G.O.W.  
 52149B  
 2-7-52 G.O.W.





FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	5-492 (2)	POST WAR

**R/W PLAN**  
SCI. 239-0.00

