Revised As-Built

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	STATE	19

1
35

SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

SCI-776-2.55 PIK-776-0.00

MADISON & MARION TOWNSHIPS

SCIOTO - PIKE COUNTIES

CONVENTIONAL SIGNS

State Line
County Line
Township Line
Section Line
Center Line
Corporation Line
Limited Access & Right of Way
Limited Access Only — LA
Right-of-Way Only — RW
Existing Right-of-Way
Fence Line — X — X — X — X
Guard Rail (existing)
Guard Rail (proposed)
Steam Railroad
Power Poles
Telephone Poles
Trees or Stumps (existing)
Trees or Stumps (to be removed)

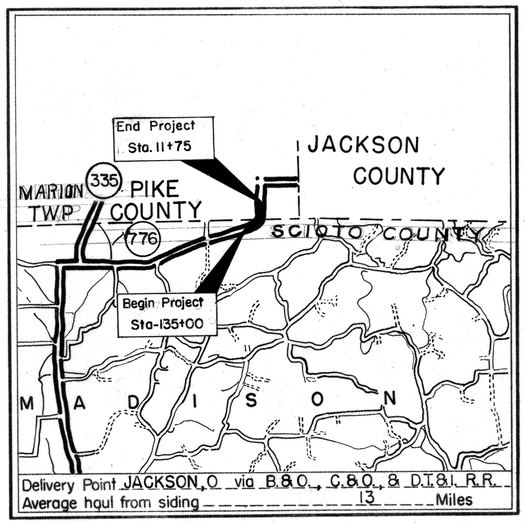
INDEX OF SHEETS

Title Sheet	1	Structures 20' Span & Under	27
Schematic Plan	2	Structures Over 20' Span	28-31
Typical Section	3-4	Channel Sections	32-34
Notes	5-6	Right-of-Way	35
Summary of Quantities	7-8		
General Summary	9		
Plan & Profile	10-12		
Pavement Elevations	13		
Cross Sections	14-26		

Sht's 27 & 31 Rev. 3-24-59

LINE DATA

Begin Project - Sta. 135+00
Equation - Sta. 142+26.37 Back = Scioto Co. - Sta. 0+00 Ahead = Pike Co.
End Project - Sta. 11+75
Net Length of Project - 1901.37 Lin. Ft. or - .360 Miles
Add for Approaches
- Sta. 134+00 to - Sta. 135+00 = 100 Lin. Ft.
- Sta. 11+75 to - Sta. 12+70 = 95 Lin. Ft.
Net Length of Work - 2096.37 Lin. Ft. or - .397 Miles



LOCATION MAP

SCALE OF MILES

0 1 2 3 4

Portion to be improved
State Roads
Other Roads

SCALE

Plan 1" = 50'
Profile: Horizontal 1" = 50'
Profile: Vertical 1" = 5'

The standard specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right of way 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 of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on these plans and estimates.

Approved Paul M. Miller P.E. 11116
Date 10-27-58 Division Deputy Director

No RR
HBV
11-24-58

Approved L. D. Mahaffey
Date 11-26-58 Deputy Director of Planning & Programming

Approved D. Sherman
Date 11-24-58 Engineer of Bridges

Approved R.E. Shultz
Date 11-25-58 Engineer of Location & Design

Approved R.E. Masters
Date 11-25-58 Deputy Director of Design & Construction

Approved George F. Thomas
Date 11/24/58 First Assistant Director

Approved C. M. Noble
Date 11/24/58 Director of Highways

Revised As-Built

APR 17 1961
GROUND PHOTOLAB

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

DIVISION ENGINEER — DATE

File No.	Scioto-Pike Counties Sci-776-2.55 Pik-776-0.00
	Date of Letting 19
	Contract No.

Supplemental Prints of Standard Construction Drawings

DR-1	1-3-55	I-15 No. 1	8-1-55	CS-2-54 (2 sheets)	12-1-54
I-14 G	1-22-52	L-3	4-1-50	AS-11-54	12-1-54
I-15 No. 2-A	6-1-57	L-3-A	4-1-50		
RI-1	7-15-58	S-27 P.C. 3	2-20-45		
I-1,2,3,4,8&5	4-24-58	I-8 2-2-A & B	8-1-56		
T-35	1-2-56	SP-53	7-21-53		
G.-707	6-1-56				

Supplemental Specifications

E-101	1-1-57
B-119	REV. 8-11-57

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2/35

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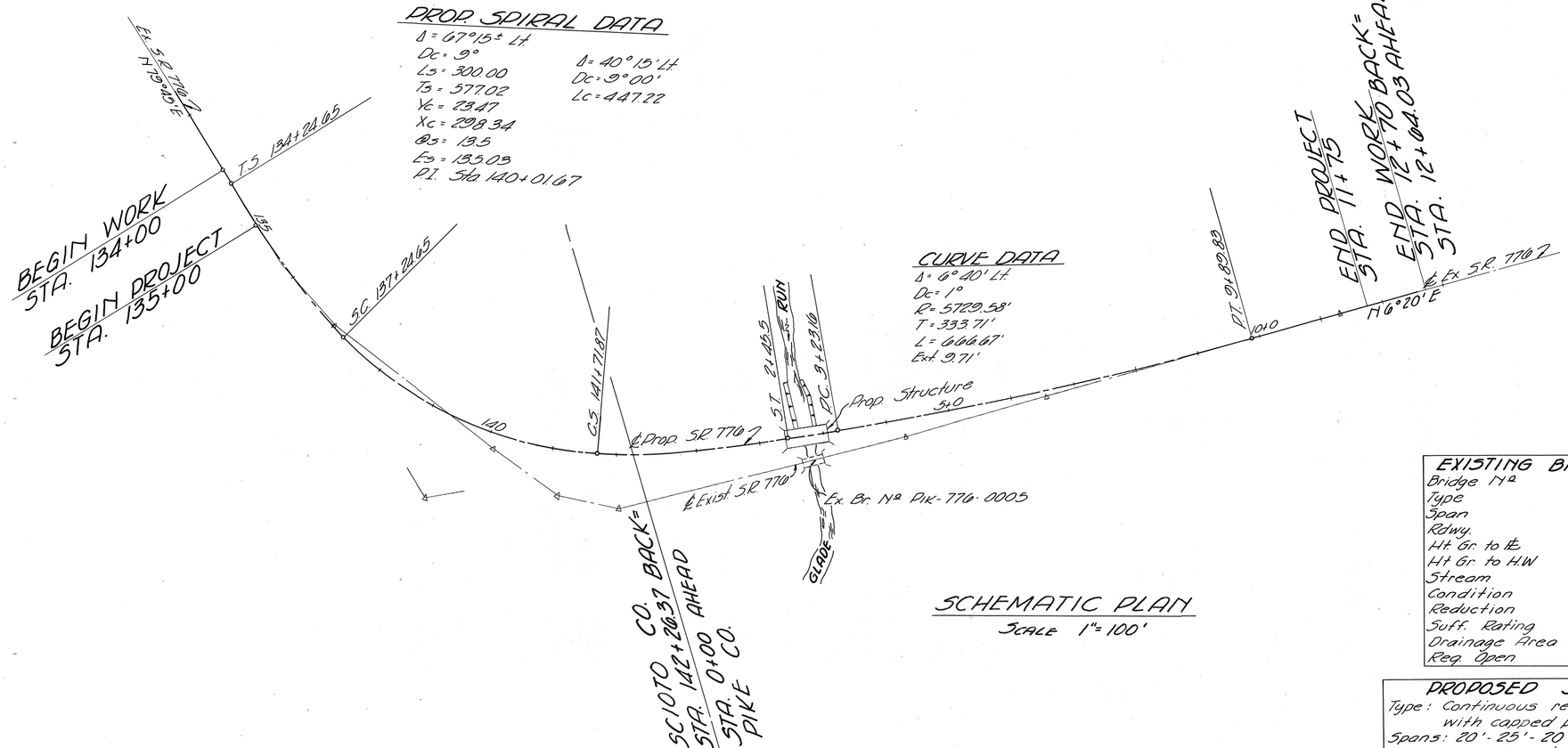

SCHEMATIC PLAN
SCALE 1"=100'

EXISTING BRIDGE DATA	
Bridge Nº	PIK-776-0005
Type	Steel Beam
Span	34'-6"
Rdwy.	11'-6"
Ht Gr. to Ft.	10'
Ht Gr. to H.W	4'
Stream	Glade Run
Condition	Poor
Reduction	65%
Suff. Rating	26
Drainage Area	428 Sq Mile
Req. Open	312 Sq Ft.

PROPOSED STRUCTURE

Type: Continuous reinf. concrete slab with capped pile abutments & conc. piers
Spans: 20'-25'-20' c/c brgs.
Roadway: 24' flt 2'-0" safety curbs
Load Frequency: CF = 30 (57)
Skew: None
Wearing Surface: 1½" monolithic concrete
Approach Slabs: AS-1-54 (25' Long)
Alignment: Tangent

TYPICAL SECTION

TYPE T-35 ON B-119

Scale - 3/8" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

3/35

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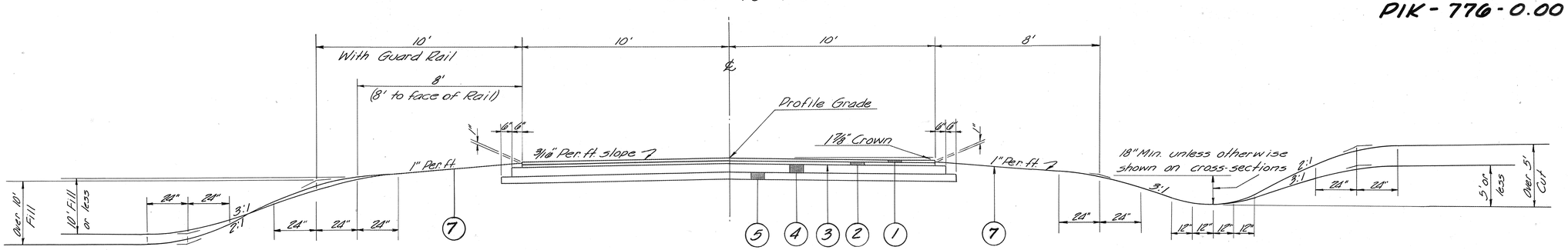
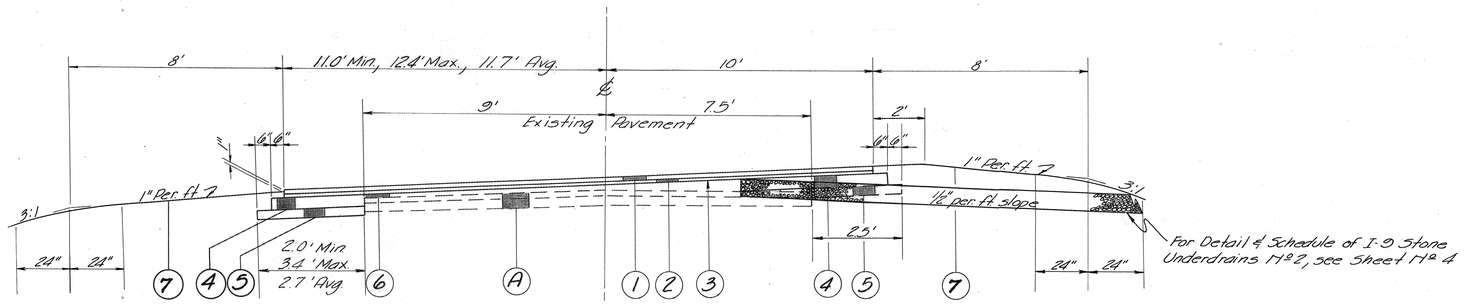


TYPICAL SECTION "A"

The above typical section applies between the following stations:

Sta. 136+00	to	Sta. 2+40.75	867.12	Lin. Ft.	Equation
Sta. 3+07.25	to	Sta. 11+75	867.75	Lin. Ft.	Sta. 1421+26.37 Back =
Total Length of Typical Section "A"			1734.87	Lin. Ft.	Sta. 0+00 Ahead



For Detail & Schedule of I-9 Stone Underdrains M^o 2, see Sheet M^o 4

TYPICAL SECTION "B"

The above typical section applies between the following stations:

Sta. 135+00	to	Sta. 136+00	100	Lin. Ft.
Total Length of Typical Section "B"			100	Lin. Ft.

LEGEND

(1)	I-35	1½" Asphaltic Concrete Surface Course Type "1" (85-100)
(2)	B-35	1½" Asphaltic Concrete Leveling Course (85-100)
(3)	I-30	Bituminous Prime Coat, Sec. M-57, RT-2 or 3 or Sec. M-5.3, MC-0 or MC-1, applied at the rate of 0.35 gals. per Sq. Yd.
(4)	B-119	5" Crushed Aggregate Base Course
(5)	I-22	4" Subbase
(6)	B-119	Crushed Aggregate Base Course 1.5" Min, 40" Max, 28" Avg.
(7)	L-9	Seeding and Protecting
(A)		Existing Pavement 2" Bituminous Surface on 4" Bank Run Sand & Gravel.

TYPICAL DETAILS

SCI-PIK-COUNTY
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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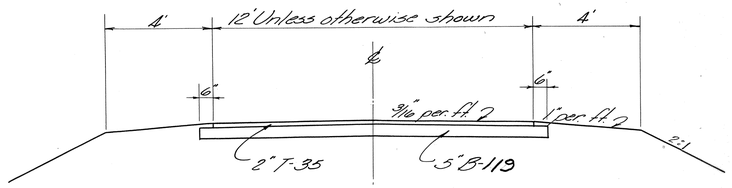
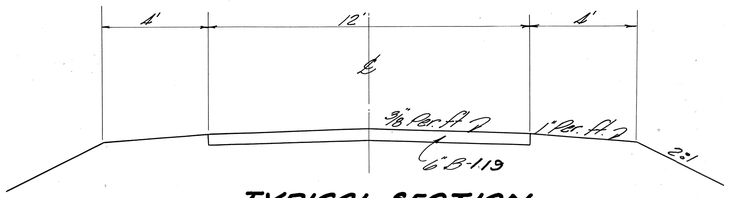
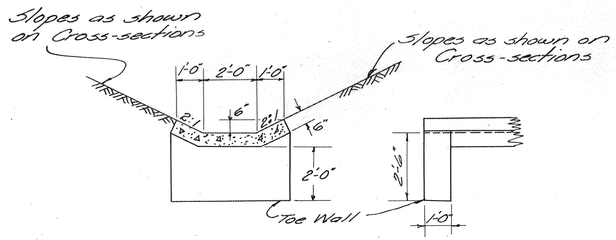


TYPICAL SECTION OF RESIDENCE DRIVE

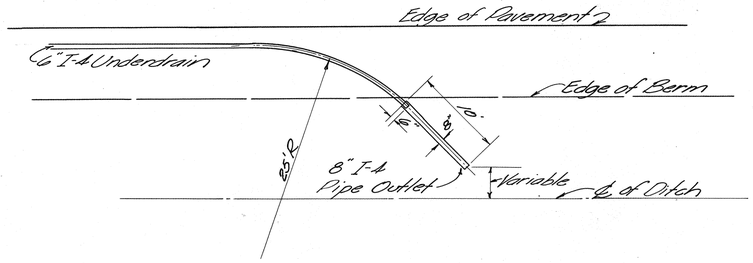


TYPICAL SECTION OF FIELD DRIVE

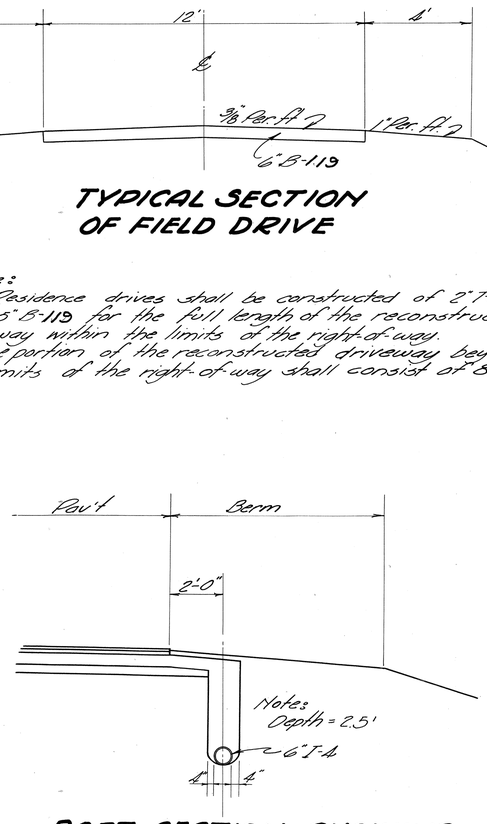
Note:
Residence drives shall be constructed of 2" T-35 and 5" B-119 for the full length of the reconstructed driveway within the limits of the right-of-way.
The portion of the reconstructed driveway beyond the limits of the right-of-way shall consist of 8" B-119



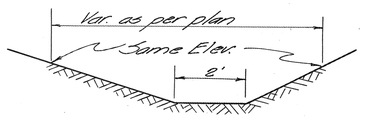
DETAIL OF PAVED GUTTER (TYPE 1)



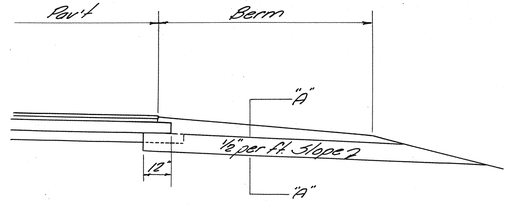
DETAIL OF T-4 PIPE OUTLET

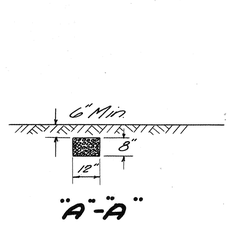


PART SECTION SHOWING I-4 UNDERDRAIN



DETAIL OF SOD DITCH





"A"-"A"

PART SECTION SHOWING I-9 STONE UNDERDRAIN № 2

I-9 SCHEDULE

Station Lt.	Station Rt.	Station Lt.	Station Rt.
134+50	134+75		
135+00	135+25		
+50	+75		
136+00	136+25		
+50	+75		
137+00	137+25		
+50	+75		
138+50	138+25		
139+00	+75		
+50	0+75		
0+50	1+25		
1+00	+75		
+50			
2+00			

NOTES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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ROAD NAME SIGNS

All County, Township, City or Village road or street name signs that will be disturbed by the construction shall be carefully removed and stored by the Contractor at the disposal of their respective owners.

Payment for this operation shall be included in the unit price bid for Roadway Excavation, Item E-101.

FIELD OFFICE

The Contractor shall provide a suitable Field Office for the exclusive use of the State Employees, in accordance with Section 3001 (b), having a minimum of 150 sq ft. of floor space.

The Contractor shall have a telephone installed and maintained in the Field Office during the construction of this project.

Contractor shall also install wiring and outlets suitable for connecting the electrical office equipment. He shall provide 110 volt alternating current during the construction of this project.

DESIGN SPEED

The geometrics for this project have been planned for a design speed of 50 miles per hour.

SPECIAL DITCHES

For special ditch grades, see Cross-Sections.

UTILITIES

The Contractor shall notify at least 48 hours before breaking ground all Public Service Corporations having wire, poles, pipe, conduits, manholes or other structure that may be affected by this operation, including all structures which are affected and not shown on these plans.

Any and all work required for public or private utilities will be done by and at the expence of their respective owners, unless otherwise noted on these plans.

ROUNDING OF CORNERS ON CROSS SECTIONS

The rounded corners, shown on Standard Drawing RI-1, apply to all cross-sections even though otherwise shown in these plans.

R/W MONUMENTS, FEDERAL PROJECT MARKERS AND SECTION MARKERS

Existing R/W Monuments, Bench Marks, Federal Project Markers and Section Markers that will be removed by construction, shall be protected by the Contractor as per Section 6-7.09 until they can be witnessed, referenced and reset by the Construction Crew.

ELEVATION DATUM

All elevations are based on U.S.G.S. datum.

LOCATION AND SIZE OF PIPES

The location, type, depth and size of all existing pipes are shown as near exact as the available information will permit.

The State will not be responsible for any variations found during construction.

EXISTING FLEXIBLE PAVEMENTS

Within the limits of construction where the existing flexible pavement will have less than six (6") inches of fill placed upon it, the pavement shall be thoroughly scarified for its full depth, mixed with sufficient soil and properly recompacted to insure the elimination of any plans of separation between it and the embankment placed thereon. Outside the limits of construction the existing flexible pavement shall be thoroughly scarified, mixed with sufficient soil and shaped to fit the surrounding terrain in such a manner as to insure the growth of seed planted thereon.

Payment for all the above shall be included in the unit price bid for Item E-101 Roadway Excavation.

NON-RIGID PAVEMENT REMOVAL

The removal of non-rigid pavement is to be paid for under Item E-101 Roadway Excavation.

EXCAVATION FOR ITEM B-119

Excavation for B-119 material used on Side Road Approaches, Mail Box Turnouts and Drives has been included in Earthwork Quantities when same is in "Cut." Where Side Road Approaches, Mail Box Turnouts and Drives are in "Fill," excavation for B-119 material shall be made by the Contractor at his own expense if he builds the embankment up to finish grade before placing the B-119 material.

SUBGRADE COMPACTION FOR DRIVES AND MAIL BOX TURNOUTS WITH B-119

The subgrade under B-119 material used on Drives and Mail Box Turnouts shall be compacted for a depth of six (6") inches to the density requirements of Table III in Item E-101.

Payment for subgrade compaction as specified above, shall be included in the unit price bid for Item E-101 Roadway Excavation.

SUBGRADE COMPACTION 12" IN DEPTH

The area of compacted subgrade to be paid for includes the main pavement. Subgrade compaction to be 12" in depth.

L-9 COMMERCIAL FERTILIZER

All areas to be seeded under Item L-9, or sodded under Item L-10, shall have commercial fertilizer 12-12-12 applied at the rate of twenty (20) pounds per 1,000 Sq. ft.

SEEDING AND PROTECTING ROADWAY AREAS

Quantities for Seeding are calculated for the soil areas within the work limits as shown on the cross-sections and payment shall not be paid for seeding beyond the these limits. Seed shall be sown at the rate of three (3) pounds per 1000 Sq. ft. except as otherwise noted in plans. Seeding formula for all seeded areas shall be in accordance with the following: (Note: see sheet No 6 for seeding formula)

AGRICULTURAL LIMING MATERIAL

Where used this material shall be applied at the rate of 100 lbs. per 1000 sq. ft.

ITEM L-10 SODDING AND I-14 PAVED GUTTER

These items are provided on the plans for erosion control. The Engineer shall check and make adjustments in the location and quantities for these items where indicated by field conditions during construction.

Should rock of a stable nature be encountered at flow line of any of these items, they may be non-performed.

REMOVAL OF TREES AND STUMPS

All trees and stumps lying within the construction limits of this project shall be removed under the Lump Sum Bid for Removal of Trees and Stumps, Item E-3, unless work is indicated in these plans to preserve.

The following is an approximate estimate of the number of trees and stumps to be removed.

Sizes	No Trees	No Stumps
12" - 18"	1	0
18" - 24"	0	0
24" - 30"	1	0
30" - 36"	0	0
Over 48"	0	0

The above estimate is only approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps outside of the limits of construction but within Right-of-Way lines.

Payment for the removal of these additional trees or stumps is included for payment in the Lump Sum Bid under Item E-3, Removal of Trees and Stumps.

DRAINAGE OF SUBBASE MATERIAL

Where the subbase material is drained by I-9 Stone Underdrains or by extensions through the shoulders to the fill slope or the ditch line, the Contractor shall finish, seed and mulch the slopes so as not to impede drainage of the subbase material. The actual area of the outcrop of the subbase material or I-9 Underdrains shall not be seeded.

STONE UNDERDRAIN No 2

No 2 Stone Underdrain has been estimated on this project at 50 ft. intervals on each side where I-4 drainage is not provided. They shall be placed not over 50 ft. apart. This quantity is to be used in its entirety.

PART WIDTH CONSTRUCTION FOR FLEXIBLE PAVEMENT

Because of the necessity of building this project under traffic and constructing the pavement part at a time, extreme care shall be taken to prevent the construction of a butt joint on centerline in the B-119 and I-22 courses.

This shall be accomplished by building the B-119 and I-22 courses, placed with the first portion of the pavement built, at least eighteen (18") inches beyond the centerline and by surfacing no closer than eighteen (18") inches to this edge of the above courses. When the second portion of the pavement is built, at least twelve (12") inches of these projecting courses shall be broken down and thoroughly keyed in with the newly placed corresponding in the second portion of the pavement.

Payment for this operation shall be included in the unit prices bid for the pertinent pavement items.

NOTES

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~~HEAVY EQUIPMENT~~

~~The Contractor shall exercise care in the use of heavy equipment over finished work and will be required to remove and replace any completed work destroyed thereby. Culverts shall be backfilled to a height of (four (4)) feet before loaded earth-moving equipment is permitted to cross the trench. Heavy equipment shall not be operated over any completed layer of embankment, compacted subgrade or subbase, such operation tends to destroy the soil structure or pipe underdrains; however, if such operation cannot be avoided, the Contractor will be required to reduce the size of loads to an extent that damage does not occur.~~

VOID

REPLACEMENT

The Contractor shall replace, at his own expense, any item not specifically listed for removal that is damaged or destroyed by his operations.

EROSION CONTROL

Dumped Rock Channel Protection, Sodding and Paved Gutter are provided in these plans for erosion control. Rock of a stable nature will not be removed in order to place these items. If rock is encountered at the proposed flow line, or between the flow line and bottom of dumped rock channel protection, and is -- in the opinion of the Engineer -- of stable quality a portion or all of the above items shall be non-performed at any location where the above conditions prevail.

TRAFFIC

Two-way traffic shall be maintained at all times, except during placing of proposed pavement when one-way traffic will be permitted as directed by the Engineer.

The length of time required for one-way traffic shall be kept to a minimum.

The existing and proposed pavement shall be used to maintain traffic wherever and whenever possible.

The Contractor's attention is directed to the following Sections of the Construction and Material Specifications:

G-4.05 Maintenance of Local Traffic
G-7.06 Public Convenience and Safety
G-7.07 Barricades, Danger and Warning Signs
I-35.23 & B-35.25 Protection of Completed Courses

This note shall not be construed to waive any portion of the Construction and Material Specifications.

The following is a suggested sequence of construction operations to facilitate the maintenance of two-way traffic at all times.

In lieu of the suggested sequence, the Contractor may submit to the Director for approval a written detailed plan of his alternate method of maintaining traffic. Prior to adoption and use of an alternate plan for maintenance of traffic, approval shall be granted by the Director.

Between Station 135+00 to Station 139+50 a 16 ft. temporary Roadway will be required on the right of the proposed centerline. This will also require a temporary pipe structure at Station 138+00 for the maintaining of traffic.

From Station 139+50 to Station 142+26.37 and from Station 0+00 to Station 5+00 the existing pavement and structures will be utilized to maintain traffic.

From Station 5+00 to Station 12+00 a 16 ft. temporary roadway will be required on the right of centerline to maintain traffic.

The Temporary Roadway shown on Cross Sections are approximate line and grade. They may be adjusted by the Contractor with the Project Engineer's approval.

SEEDING AND PROTECTING ROADWAY AREAS

Cont from Sheet No. 5

Shoulders, roadway ditches, slopes, unless otherwise directed, shall be seeded with the following mixture:

35% Kentucky Bluegrass
45% Creeping Red Fescue
15% Alsike Clover
5% Fancy Red Top

Areas in Front of Residences, unless otherwise directed, shall be seeded with the following mixture:

50% Kentucky bluegrass
45% Creeping Red Fescue
5% Fancy Red Top

TRAFFIC (Cont'd)

Traffic compacted surface course, Item 3-15, and calcium chloride, Item 3-15, shall be applied on temporary roadways as directed and in the amounts requested by the Engineer (see General Summary of Quantities)

3-15 Aggregate for Maintaining Traffic ——— 900 Cu. Yd
3-15 Calcium Chloride for Maintaining Traffic —— 18 Tons

The hardness and soundness requirements of the Specifications shall be waived on all of the T-10 material used for Maintenance of Traffic.

Payment for all of the above, including construction, maintenance and subsequent removal, where required, of temporary roadways, except Traffic Compacted Surface Course, Item 3-15, Calcium Chloride, Item 3-15, and Temporary Run-Around, Item 5-15, is included in the lump sum bid for Maintaining Traffic.

In addition to the above, Section G-4.05, Maintenance of Local Traffic, and Section G-7.07, Barricades, Danger and Warning Signs, shall be in force during the entire life of the contract.

SUMMARY OF QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
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SCIOTO - PIKE COUNTIES
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EROSION CONTROL

See Sheet 1/a	Station to Station	Side	I-14 Paved Gutter Type 1		L-9 Seeding & Protecting	L-9 Commerical Fertilizer 12-12-12	L-9 Agri. Liming Material	L-10 Sodding	
			Lin. Ft.		Sq. Yds.	Tons	Tons	Sq. Yd.	
10	134+50 - 136+90	Rt.						160	
10	136+90 - 137+10	Rt.	30						
10	137+42 - 137+73	Rt.	31						
10	137+83 - 138+00	Rt.	17						
10	138+00 - 139+92	Rt.						128	
11	140+00 - 1+25	Lt.						236	
11	140+10 - 1+22	Rt.						228	
11	1+63 - 2+55	Rt.						62	
11	2+55 - 2+65	Rt.	10						
11	1+61 - 2+55	Lt.						63	
11	2+55 - 2+65	Lt.	10						
11&12	3+25 - 8+80	Rt.						374	
11	2+83 - 3+50	Lt.	67						
11	3+50 - 7+38	Lt.						388	
12	8+57 - 9+50	Lt.						93	
12	9+13 - 9+50	Rt.						24	
33	Channel Sta 249+22	Rt&L			236				
10-12	134+00 - 12+70	Rt&L			13,319				
	Total		165		13,555	138	6.89	1756	

STRUCTURES

See Sheet 1/a	Station	Side	Structure No	E-2 Excavation for Structure	E-3 Channel Excavation	E-12 Pipe Removed		I-10 Dumped Rock Channel Protection	S-1 Concrete for Structures Class "E"	S-24 Removal of Existing Structures	S-27 Pipe for Rdwy. Culvert
						Lin Ft. 18" & Under	Lin Ft. Over 18"				60"
				Cu. Yd	Cu. Yd			Cu. Yd	Cu. Yd	Lump	Lin. Ft.
27	137+88	&/	1	63	3			18	67	Lump	84
12	11+01.5	&				116.95					
7	Drive Box					30.0	30.5				
	Total			63	3	146.95	30.5	18	67	Lump	84

REMOVAL OF TREES AND STUMPS

Item E-9	LUMP

APPROACH SLABS

Item I-7	111 Sq. Yds.

DRIVES

See Sheet 1/a	Station	Side	T-35 2" Asph. Concrete Surface Course	B-119 Aggregate Base Course Sq Yd		E-12 Pipe Removed Lin. Ft		I-1 Pipe for Driveways Lin. Ft.		
			Sq. Yd	5"	6"	18" & Under	Over 18"	12"	15"	18"
10	137+29.3 Fld. Dr.	Lt.			70.03					
10	137+29.3 (Res. Dr. & M.B)	Rt.	106.4	114.0		18			38	
10	139+50 Fld. Dr.	Lt.			83.33					
11	140+00 Fld. Dr.	Rt.			102.00	12				
11	1+43 Fld. Dr.	Lt.			100.62			36		
11	1+43 Fld. Dr.	Rt.			109.93			42		
11	7+50 Res. Dr.	Lt.	149.8	160.73			30.5			38
12	9+00 (Res. Dr. & M.B)	Rt.	113.0	121.18						28
	Total		369.20	395.93	468.51	*30	*30.5	78	38	66

* Quantities Carried to "Structure Box"

GUARD RAIL

See Sheet 1/a	Station to Station	Side	I-15 Guard Rail Steel Beam Deep			
			Lin. Ft.			
11	2+23.85 - 3+23.85	Rt.	100			
11	2+23.85 - 3+23.85	Lt.	100			
	Deduct for Bridge		133			
	Total		67			

EXCAVATION & EMBANKMENT

See Sheet 1/a	Station to Station	Side	E-101 Roadway Excavation	Embankment	Emb. +20%	
			Cu. Yd	Cu. Yd.	Cu. Yd.	
10	134+00 - 12+70	Rt&L	7910	5764	6917	
	Total		7910	5764	6917	

DRAINAGE

See Sheet 1/a	Station to Station	Side	I-4 6" Underdrains	I-4 8" Pipe Outlets for Underdrains	I-3 18" Pipe for Roadway Drainage	I-8 Catch Basin 2-2B
			Lin. Ft.	Lin. Ft.	Lin. Ft.	Each
10&11	139+50 - 0+17	Lt.	293.50	10		
10&11	139+50 - 0+11	Rt.	287.50	10		
11&12	3+34 - 11+00	Lt.	706.00	10		
11&12	3+26 - 11+00	Rt.	744.00	10		
11	7+75	Lt.				1
11&12	7+70 - 8+58	Lt.			82	
	Total		2091.00	40	82	1

SUMMARY OF QUANTITIES

SCIOTO - PIKE COUNTIES
SCI - 776 - 2.55
PIK - 776 - 0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

8/35

PAVEMENT CALCULATIONS

See Sheet No	Location and Description	Side	T-35 Asphaltic Concrete Surface Course Type "A" (85-100) Sq. Yds. 1½"	T-35 Sq. Yds. 2"	B-35 Asphaltic Concrete Leveling Course (85-100) Sq. Yds. 1½"	B-35 Sq. Yds.	B-35 Cu. Yds. Var.	T-30 Bituminous Prime Coat @.35 gal per. Sq. Yd.	B-119 Aggregate Base Course Sq. Yds. 5"	B-119 Sq. Yds.	B-119 Sq. Yds. 3" Avg.	B-119 Sq. Yds. 6"	I-22 Subbase Sq. Yds. 4"	I-22 Sq. Yds.	E-8 Removal & Disposal of exist. wearing Course Sq. Yd.	I-9 Stone Underdrains Lin. Ft.	M-10 Calcium Chloride 2.1 Lb. per. Sq. Yd.	E-101 Compacted Subgrade Sq. Yd.
3	Typical Section "A"																	
	1734.87 × 20 × 1/9		3855.27		3855.27													3855.27
	1734.87 × 21 × 1/9							4048.03	4048.03									
	1734.87 × 22 × 1/9												4240.79					
	Add for widening Typical "A"		331.97		331.97			331.97	331.97				331.97					331.97
3	Typical Section "B"																	
	100 × 21.7 × 1/9		241.11		241.11													
	100 × 16.5 × 1/9							183.33			183.33							
	100 × 6.2 × 1/9							68.89	68.89				80.00					
	100 × 7.2 × 1/9																	
	100 × 5.2 × 1/9																	57.77
	Feather Areas																	
13	134+00 to 135+00		208.88				1.61		116.00				57.77		43.54			
13	11+75 to 12+25		105.55				.20		18.00				24.16		21.77			
7	Add for Drives			369.2					395.93			468.51						
4	I-9 Schedule	R&L														365		
	Sub total		4742.78	369.2	4428.35		1.81	4632.22	4910.08		183.33	468.51	4734.63		65.31			4245.01
	Conv. to C.Y. Gals., etc.		197.6	20.5	184.5		1.81	1621.27	681.9		15.27	78.1	526.07					
	Total		218.1			180.31		1621.27		775.27			526.07		65.31	365		4245.01

GENERAL SUMMARY

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
			ROADWAY
E-101	7,910	Cu. Yds.	Roadway Excavation, as per plan.
E-101	4,245	Sq. Yds.	Compacted Subgrade
E-8	60	Sq. Yds.	Removal and Disposal of Existing Wearing Course
E-9	Lump	Lump	Removal of Trees and Stumps
E-11	30	M. Gals.	Water
I-15	67	Lin. Ft.	Guard Rail Steel Beam, Type (Deep) As Per Standard Drawing I-15 No. 2-A
L-9	13,555	Sq. Yds.	Seeding and Protecting, as per plan
L-9	1.38	Tons	Commercial Fertilizer (12-12-12)
L-9	6.89	Tons	Agricultural Liming Materials
L-10	1,750	Sq. Yds.	Sodding
S-15	18	Tons	Calcium Chloride furnished and applied for maintaining traffic
S-15	900	Cu. Yds.	Traffic compacted surface course for maintaining traffic
S-15	Lump	Lump	Temporary Run-around Road as per plan
			DRAINAGE
E-2	63	Cu. Yds.	Excavation for Structures
E-3	3	Cu. Yds.	Channel Excavation
E-12	47	Lin. Ft.	Pipe Removed, 18" & Under
E-12	31	Lin. Ft.	Pipe Removed, over 18"
I-1	78	Lin. Ft.	12" Pipe for Driveways, Sec. M-6.4(a)
I-1	38	Lin. Ft.	15" Pipe for Driveways, Sec. M-6.4(a)
I-1	60	Lin. Ft.	18" Pipe for Driveways, Sec. M-6.4(a)
I-3	82	Lin. Ft.	18" Roadway Drainage
I-4	2,091	Lin. Ft.	6" Underdrains
I-4	40	Lin. Ft.	8" Pipe Outlets for Underdrains, Sec. M-6.4(a).
I-8	1	Each	Catch Basin 2-2B Std.
I-9	365	Lin. Ft.	Stone Underdrains, No 2, as per plan
I-10	18	Cu. Yds.	Dumped Rock Channel Protection
I-14	185	Lin. Ft.	Paved Gutter, Standard Type 1, As Per Plan
S-1	67	Cu. Yds.	Concrete for Structures, Class "E"
S-24	Lump	Lump	Removal of Existing Structures
S-27	84	Lin. Ft.	60" Pipe for Roadway Culvert
			PAVEMENT
I-35	219	Cu. Yds.	Asphaltic Concrete Surface Course, Type "1" (85-100)
B-35	187	Cu. Yds.	Asphaltic Concrete Leveling Course, (85-100)
I-30	1622	Gals.	Bituminous Prime Coat, Sec. M-5.7 RT 2 or 3 or Sec. M-5.3 MC-0 or MC-1
B-119	770	Cu. Yds.	Crushed Aggregate Base Course.
I-22	326	Cu. Yds.	Subbase
I-7	111	Sq. Yds.	Reinforced Concrete Approach Slabs. (T=13")
			STRUCTURES OVER 20' SPAN
			For Estimated Quantities, See Sheet No 29
Special	Lump	Lump	Maintaining Traffic, See Note on Sheet No 6

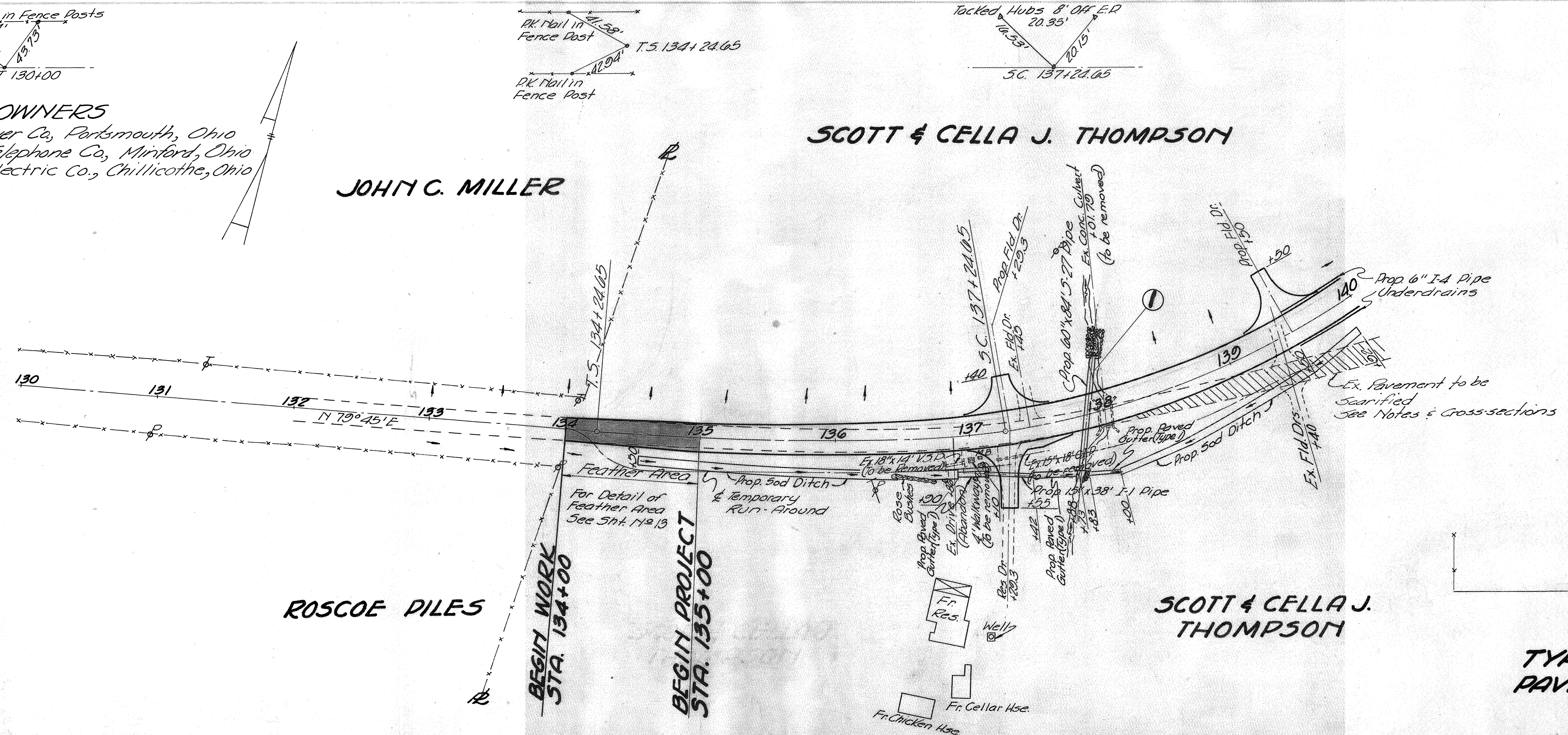
SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

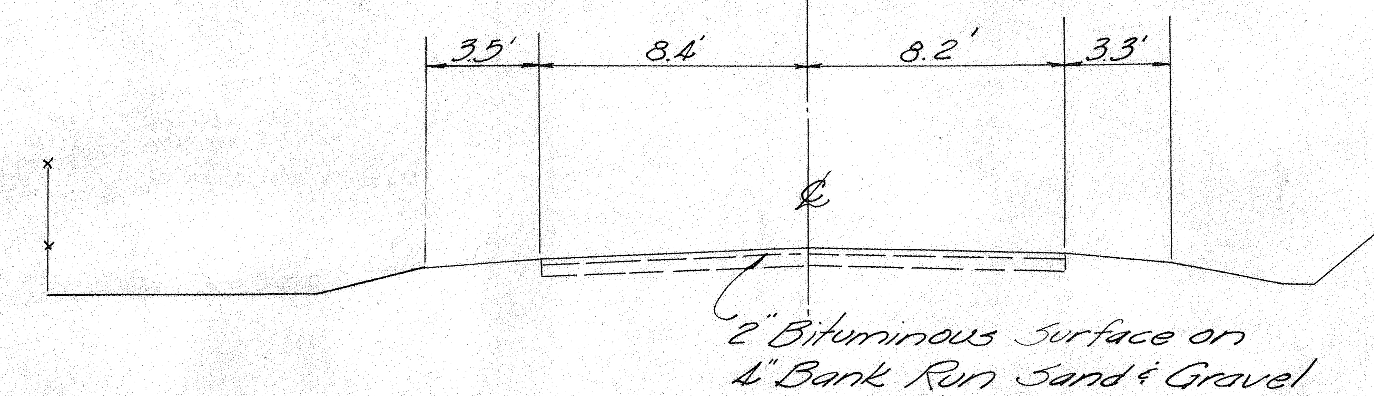
FED. ROAD DESIGNATION	STATE	PROJECT	FEDERAL AID
2	OHIO		

9
35

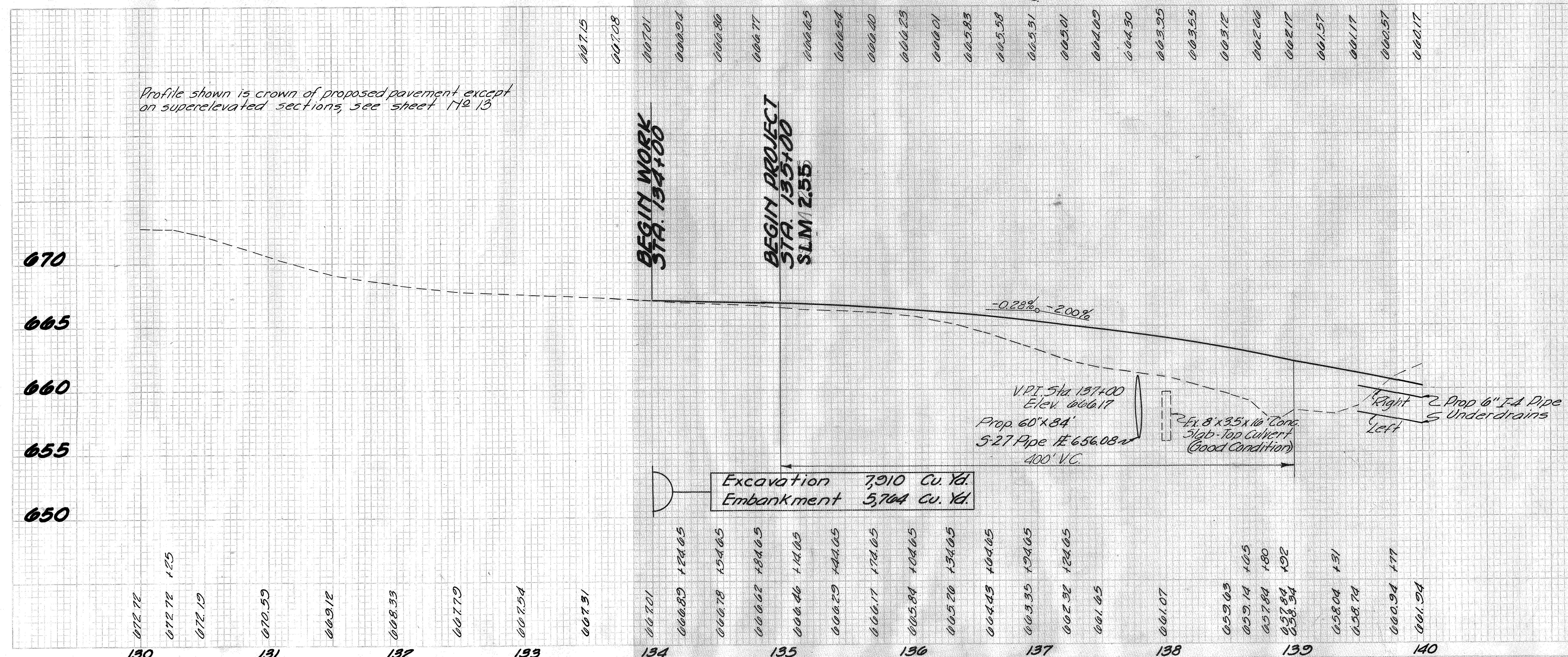
SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

UTILITY OWNERS
The Ohio Power Co, Portsmouth, Ohio
The Minford Telephone Co, Minford, Ohio
Ohio Valley Electric Co., Chillicothe, Ohio





TYPICAL SECTION OF ADJACENT PAVEMENT AT BEGINNING OF PROJECT



FOR ESTIMATED QUANTITIES SEE SHEET No 7 & 8

FOR DETAIL OF FEATHER AREA SEE SHEET No 13

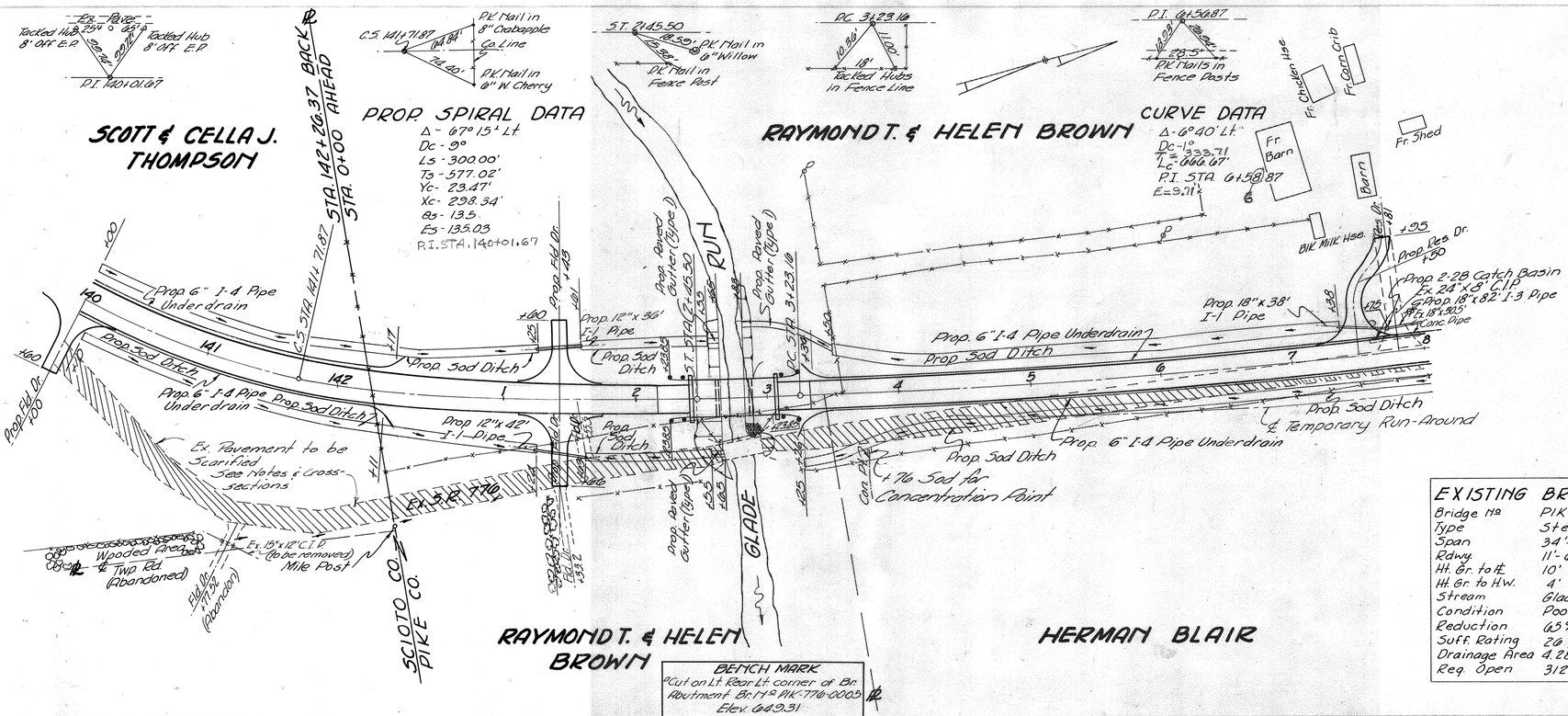
FOR DETAIL OF STRUCTURE No 1 SEE SHEET No 27

STA. 130+00 TO STA. 140+00

FED. RD DIVISION	STATE	PROJECT		
2	OHIO			

11
35

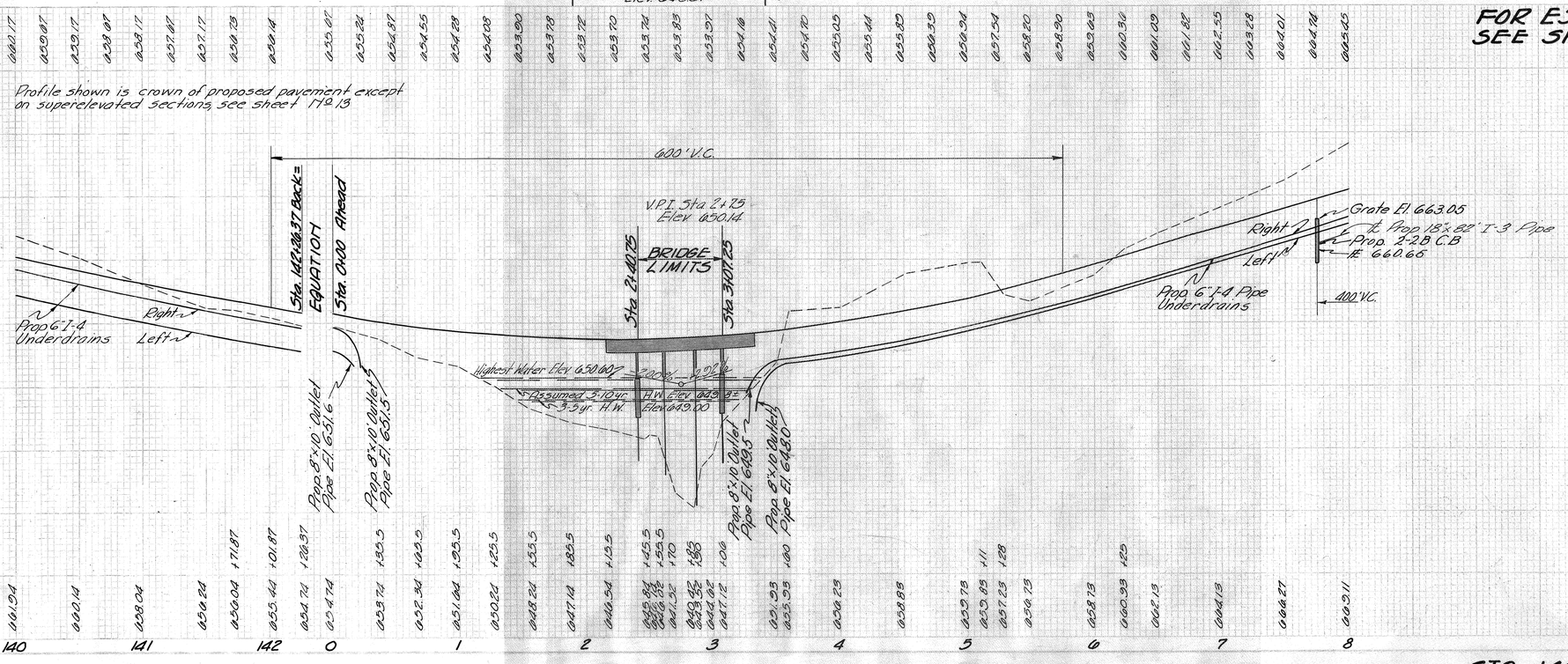
SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00



EXISTING BRIDGE DATA	
Bridge No	PIK-776-0005
Type	Steel Beam
Span	34'-6"
Rdwy.	11'-6"
Ht. Gr. to ℄	10'
Ht. Gr. to H.W.	4'
Stream	Glade Run
Condition	Poor
Reduction	65%
Suff. Rating	26
Drainage Area	4.28 Sq. Mile
Req. Open	312 Sq. Ft.

PROPOSED STRUCTURE
Type: Continuous reinf. concrete slab with capped pile ~~abutments & conc. piers~~
Spans: 20'-25'-20' ℄ brgs.
Roadway: 24' ℄ 2'-0" safety curbs
Load Frequency: CF = 30(87)
Skew: None
Wearing Surface: ½" monolithic concrete
Approach Slabs: AS-1-54 (25' Long)
Alignment: Tangent

FOR ESTIMATED QUANTITIES SEE SHEET No. 7&8

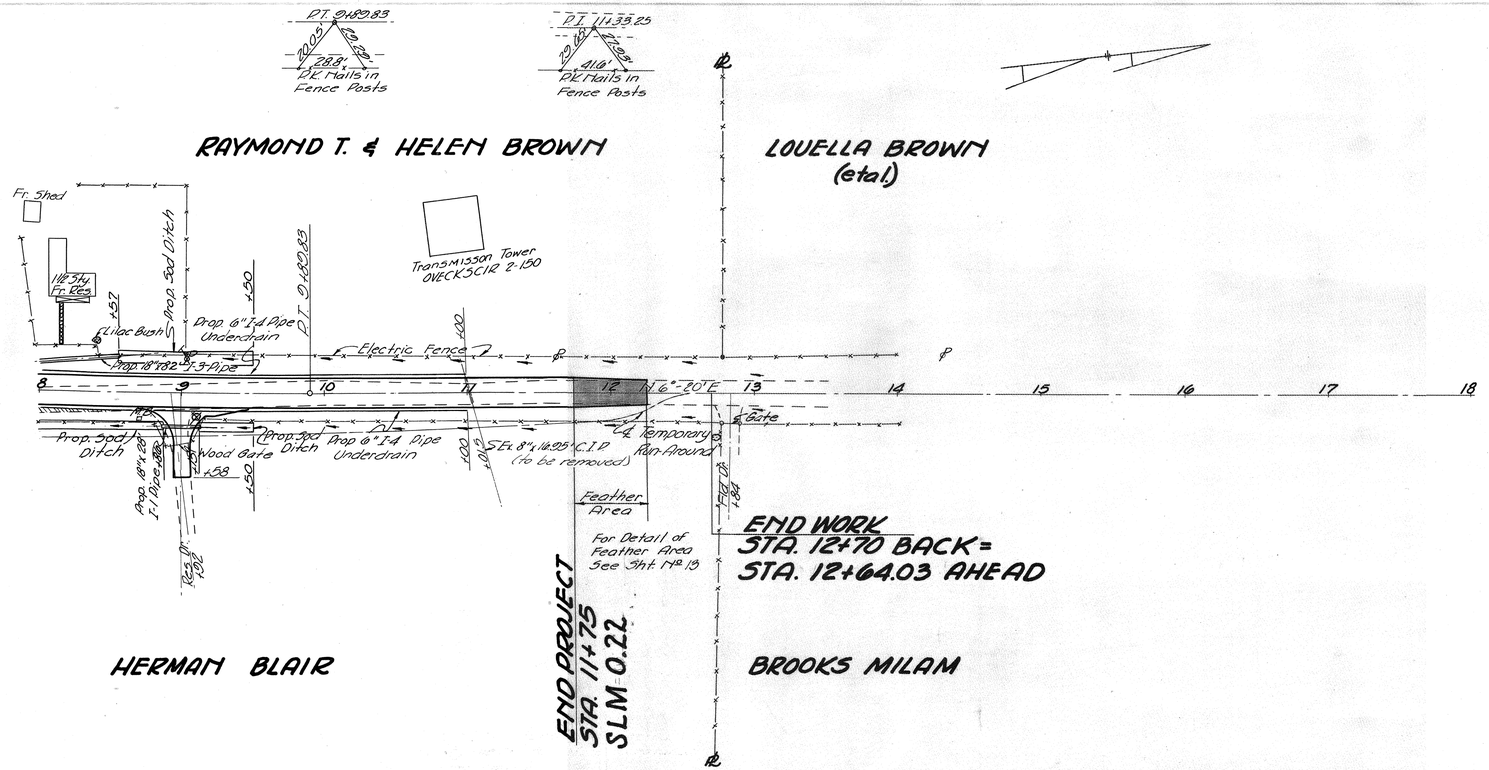


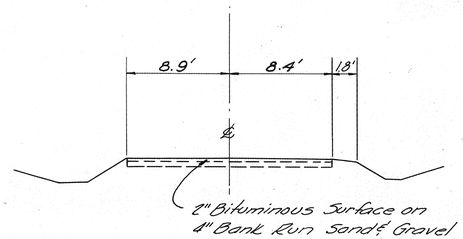
STA. 140+00 TO STA. 8+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

12
35

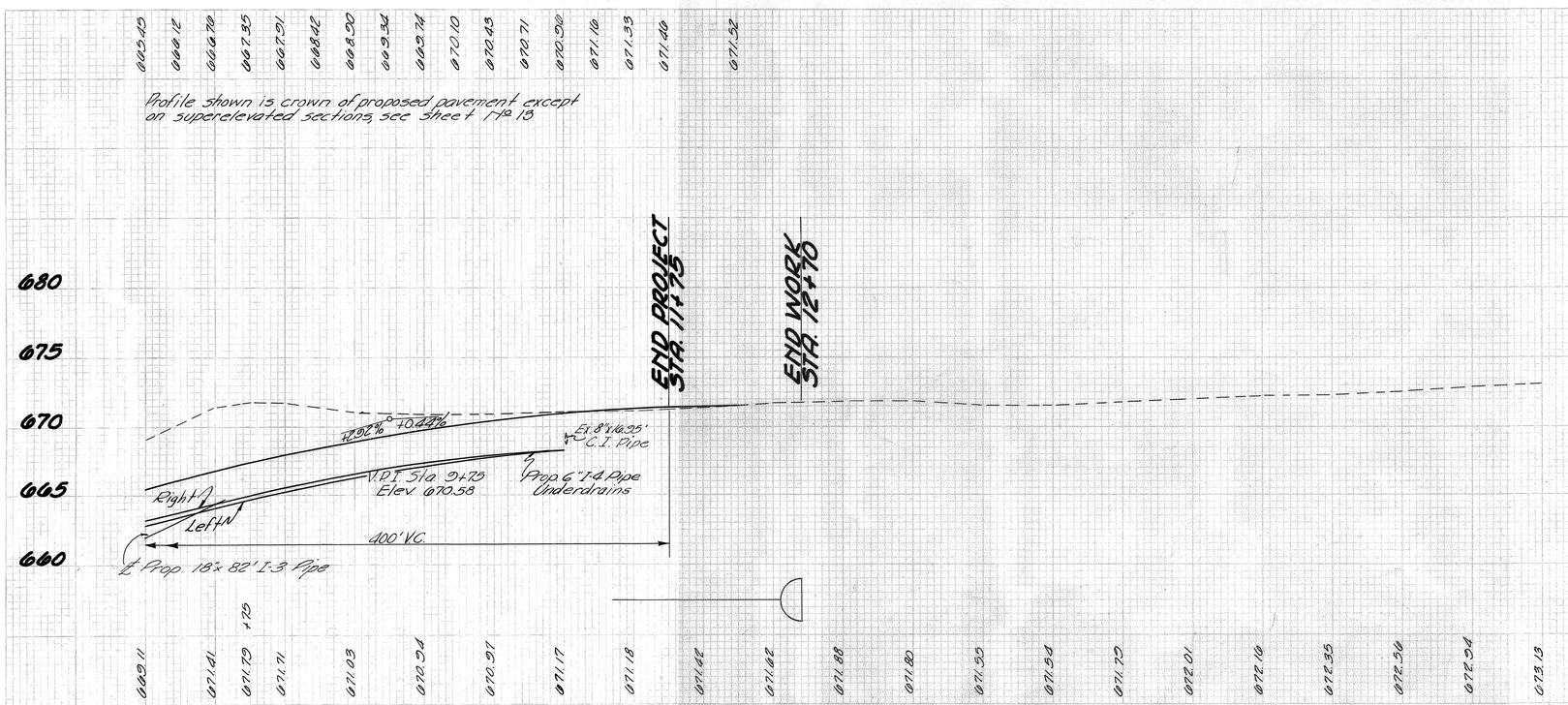
SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776 0.00





TYPICAL SECTION OF ADJACENT PAVEMENT AT END OF PROJECT

FOR ESTIMATED QUANTITIES
SEE SHEET No. 7 & 8



STA. 8+00 TO STA. 18+00

PAVEMENT ELEVATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

13/35

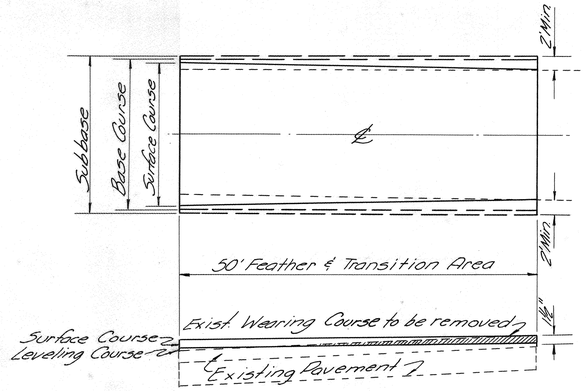
SCIOTO-PIKE COUNTIES
SCI - 776 - 2.55
PIK - 776 - 0.00

Δ = 67°15' Lt.
Dc = 9°
T.S. 134+24.65
S.C. 137+24.65
C.S. 141+71.87
S.T. 2+45.50

Elev. Lt. Edge	Width	Station	Center Elevation	Width	Elev. Rt. Edge
666.99	10'	133+50	667.15	10'	666.99
666.95		+82.65	667.11		666.95
666.92		+75	667.08		666.95
666.85		134+00	667.01		666.95
666.78	10'	+24.65	666.94		666.94
666.69	10.4'	+54.65	666.86		667.01
666.59	10.8'	+84.65	666.77		667.07
666.49	11.2'	135+14.65	666.69		667.14
666.34	11.6'	+44.65	666.50		667.16
666.15	12'	+74.65	666.40		667.15
665.91	12.4'	136+04.65	666.20		667.10
665.63	12.8'	+34.65	665.96		667.01
665.31	13.2'	+64.65	665.69		666.89
664.94	13.6'	+94.65	665.37		666.72
664.53	14'	137+24.65	665.02		666.50
664.20		+50	664.69		666.19
663.81		+75	664.30		665.84
663.40		138+00	663.95		665.45
663.06		+25	663.55		665.05
662.63		+50	663.12		664.62
662.17		+75	662.66		664.16
661.68		139+00	662.17		663.67
661.18		+25	661.67		663.17
660.68		+50	661.17		662.67
660.18		+75	660.67		662.17
659.68		140+00	660.17		661.67
659.18		+25	659.67		661.17
658.68		+50	659.17		660.67
658.18		+75	658.67		660.17
657.68		141+00	658.17		659.67
657.18		+25	657.67		659.17
656.68		+50	657.17		658.67
656.24	14'	+71.87	656.73		658.18
655.70	13.6'	142+01.87	656.13		657.49
655.28	13.27'	+26.37	655.67	10'	656.90
		EQUATION			
655.28	13.27'	0+00	655.67	10'	656.90
655.19	13.2'	+05.5	655.57		656.77
654.75	12.8'	+35.5	655.08		656.13
654.38	12.4'	+65.5	654.67		655.57
654.08	12'	+95.5	654.33		655.08
653.84	11.6'	1+25.5	654.06		654.66
653.67	11.2'	+55.5	653.87		654.32
653.57	10.8'	+85.5	653.75		654.05
653.53	10.4'	2+15.5	653.70		653.88
653.54	10.3'	+23.16	653.70		653.88
653.57	10'	+45.5	653.73		653.91
653.58		+50	653.74		653.92
653.61		+61	653.77		653.95
653.65		+70	653.81		653.99
653.67		+75	653.83		654.01
653.72	10'	+86	653.88	10'	654.06

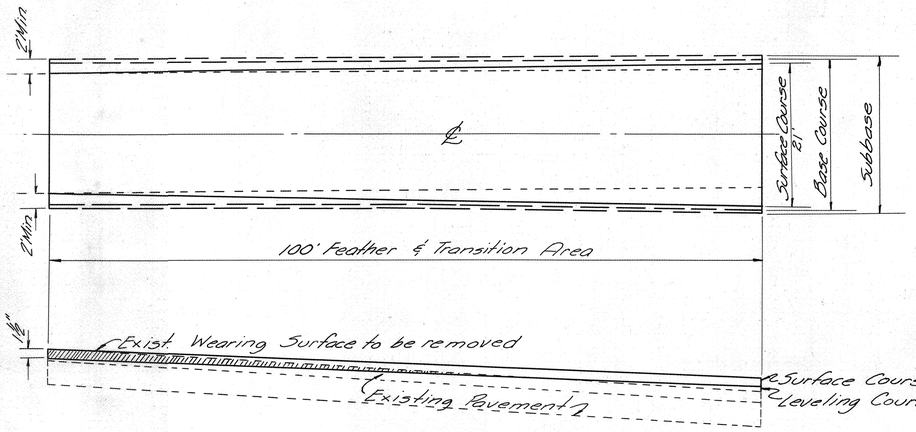
Dc = 1°
Δ = 6°40' Lt.
P.C. 3+23.16
P.T. 9+89.83

Elev. Lt. Edge	Width	Station	Center Elevation	Width	Elev. Rt. Edge
653.54	10.3'	2+23.16	653.70	10'	653.88
653.57	10'	+45.5	653.73		653.91
653.58		+50	653.74		653.92
653.61		+61	653.77		653.95
653.65		+70	653.81		653.99
653.67		+75	653.83		654.01
653.72		+86	653.88		654.06
653.77		+94	653.93		654.11
653.81		3+00	653.97		654.15
653.86		+07.50	654.02		654.20
653.99		+23.16	654.15		654.33
654.00		+25	654.16		654.34
654.07		+33	654.23		654.41
654.25		+50	654.41		654.59
654.52		+73.16	654.68		654.80
654.89		4+00	655.05		655.23
655.28		+25	655.44		655.62
655.73		+50	655.89		656.07
656.23		+75	656.39		656.57
656.78		5+00	656.94		657.12
657.38		+25	657.54		657.72
658.04		+50	658.70		658.38
658.74		+75	658.90		659.08
659.47		6+00	659.63		659.81
660.20		+25	660.30		660.54
660.93		+50	661.09		661.27
661.66		+75	661.82		662.00
662.39		7+00	662.55		662.73
663.12		+25	663.28		663.46
663.85		+50	664.01		664.19
664.58		+75	664.74		664.92
665.29		8+00	665.45		665.63
665.96		+25	666.12		666.30
666.60		+50	666.76		666.94
667.19		+75	667.35		667.53
667.75		9+00	667.91		668.09
668.26		+25	668.42		668.60
668.55		+39.83	668.71		668.89
668.74		+50	668.84		669.06
669.18		+75	669.34		669.44
669.42		+89.83	669.58		669.65
669.58		10+00	669.74		669.78
669.94		+25	670.10		670.09
670.27		+50	670.43		670.36
670.55		+75	670.71		670.40
670.70		+89.83	670.86		670.70
670.80	10'	11+00	670.96	10'	670.80



FEATHER AND TRANSITION AREA

The above applies between the following stations:
Sta. 11+75 to Sta. 12+25
Scale = Horizontal 1"=10'
Vertical 1"=1'



FEATHER AND TRANSITION AREA

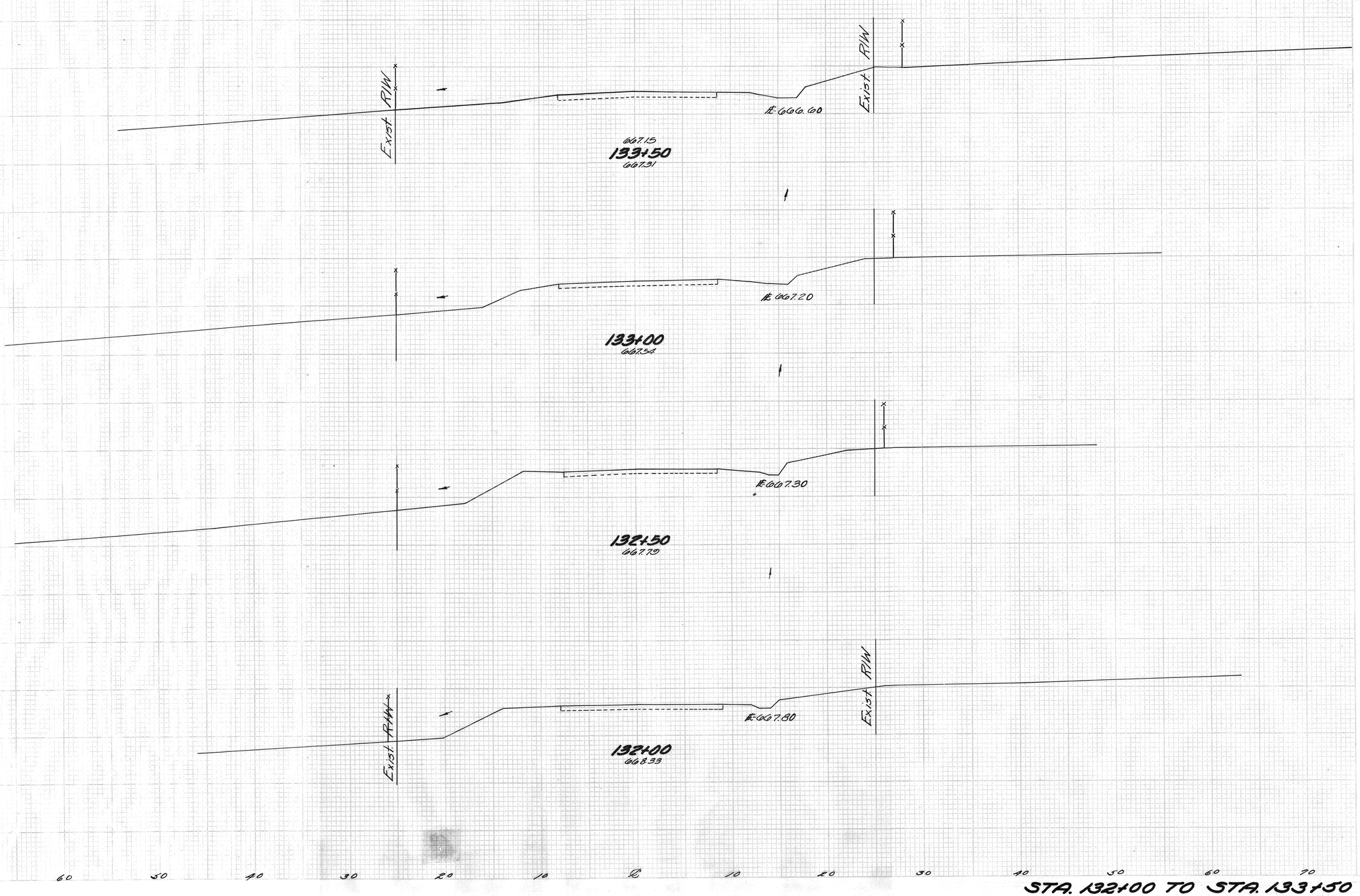
The above applies between the following stations:
Sta 134+00 to Sta 135+00
Scale = Horizontal 1"=10'
Vertical 1"=1'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

14
35

SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

END AREA		VOLUME	
CUT	FILL	CUT	FILL



STA. 132+00 TO STA. 133+50

SEEDING
Exist. SLOPE | SQ. YDS.

DIV. NO. DIVISION	STATE	PROJECT	
2	OHIO		

15
35

SCIOTO-PIKE COUNTIES
SCI - 770 - 2.55
PIK - 770 - 0.00

END AREA		VOLUME	
CUT	FILL	CUT	FILL
24	25	62	50
32	20		
60	35		
22	12		
28	16		
6	4		
5	3		
0	0		

Excavation 7,910 Cu.Yd.
Embankment 5,764 Cu.Yd.

16' Temporary Rdwy.
Sod
Prop R/W
666.13
667.15
℄-665.3
135+74.65
666.17

38
250
37
227
31
158
21
58
0

16'
Sod
666.49
667.14
℄-665.5
135+14.65
666.46

BEGIN PROJECT
STA. 135+00

Item 4-9 Seeding & Protecting
Sta. 134+00 to Sta. 135+74.65
13,319 Sq. Yds.

16' Temporary Rdwy.
Sod
666.69
667.01
℄-665.8
Prop R/W

Begin Prop Sod Ditch
Rt. ℄ Sta 134+50

134+54.65
666.78

Exist R/W
Prop R/W
667.01
134+00
667.01

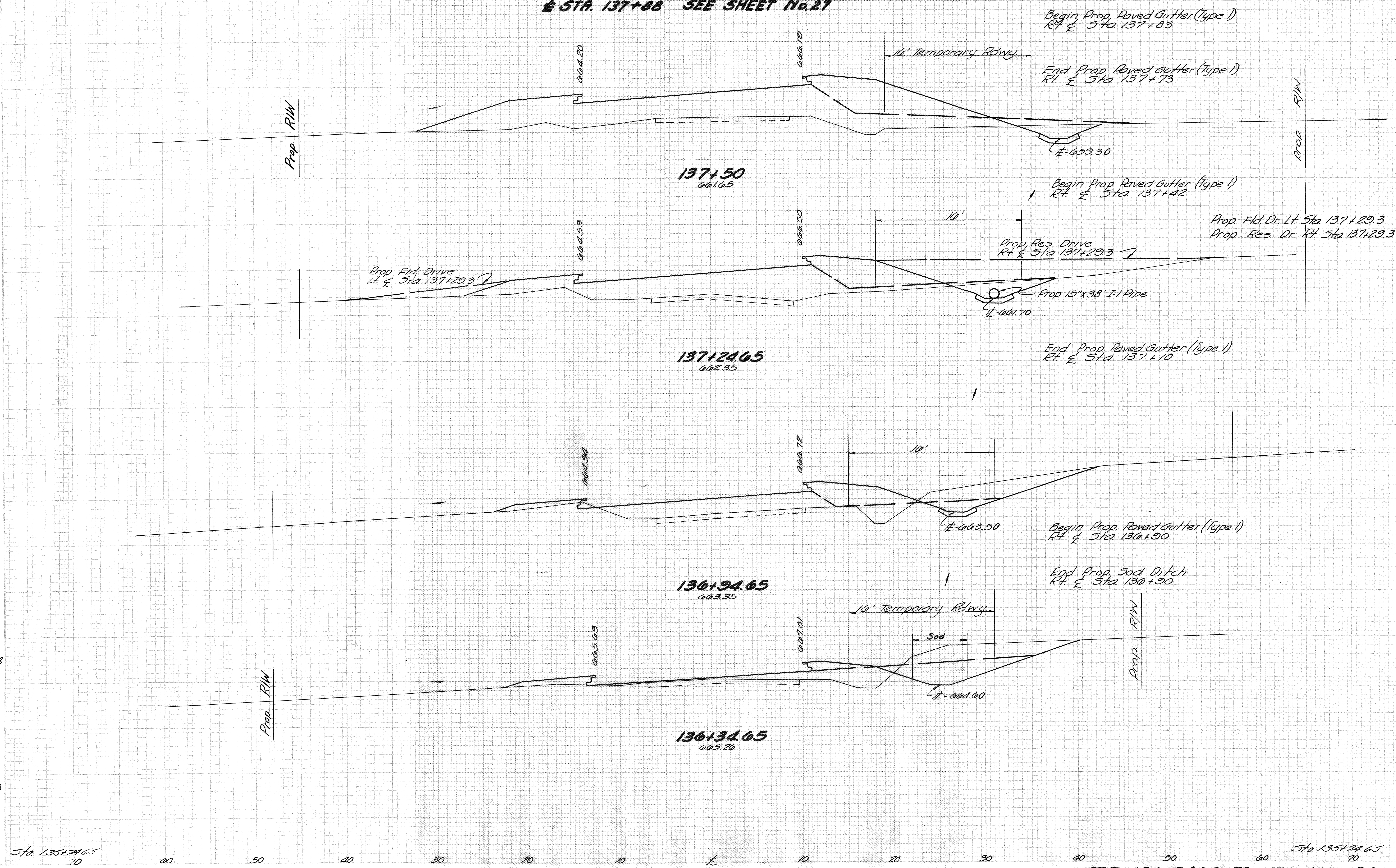
BEGIN WORK
STA. 134+00

Sta 133+50 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 Sta 133+50

STA. 134+00 TO STA. 135+74.65

SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

FOR DETAIL OF PROP. 60"×84' S-27 PIPE
℄ STA. 137+88 SEE SHEET No.27



SEEDING END WIDTH	SQ. YDS.
49	
	122
38	
	132
41	
	278
42	
	266
38	

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
10	196		
		0	7
		0	77
		11	150
13	125		
		16	113
15	78		
		76	125
53	35		
		86	67
24	25		

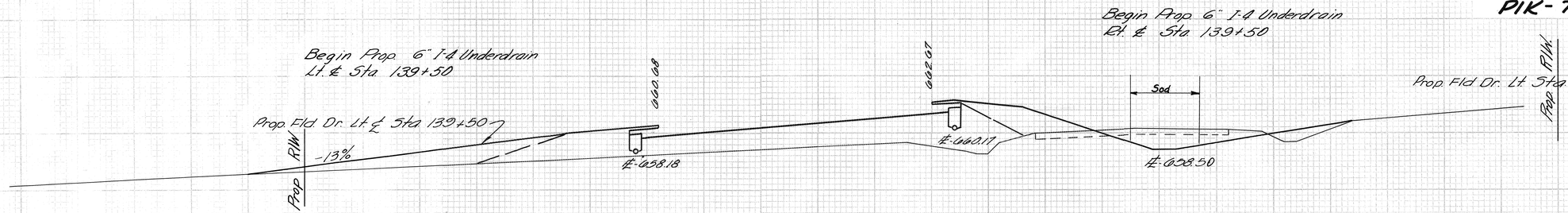
STA. 136+34.65 TO STA. 137+50

SEEDING	
SHD WIDTH	SQ YDS
54	
314	
59	
358	
70	
408	
77	
350	
49	

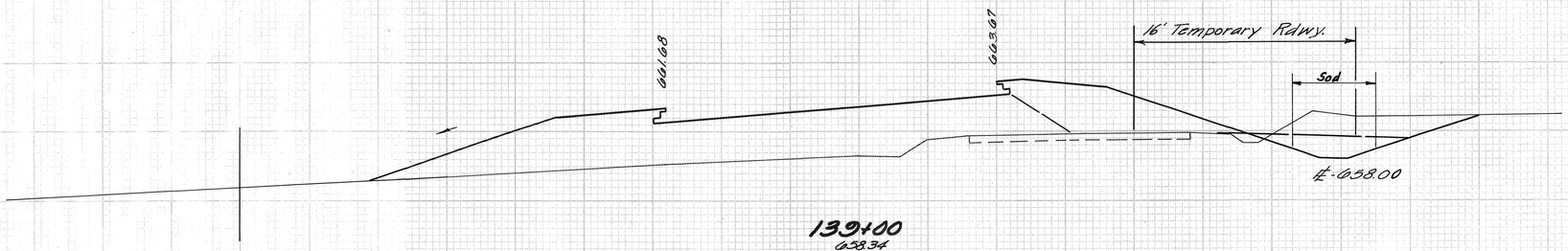
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

17
35

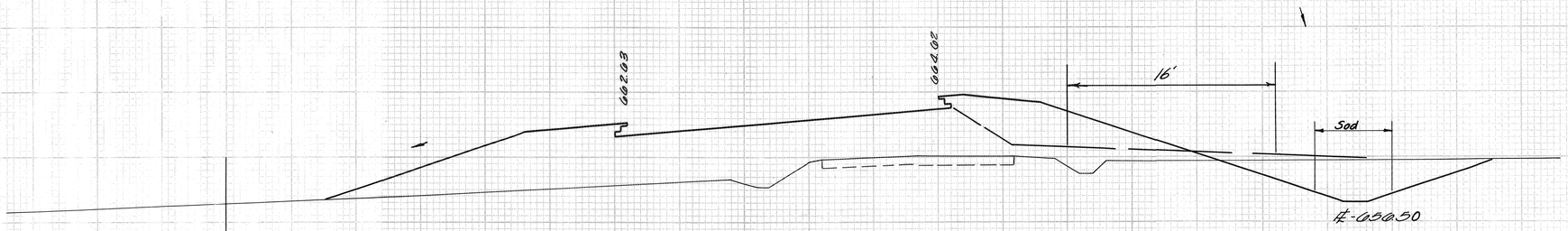
SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00



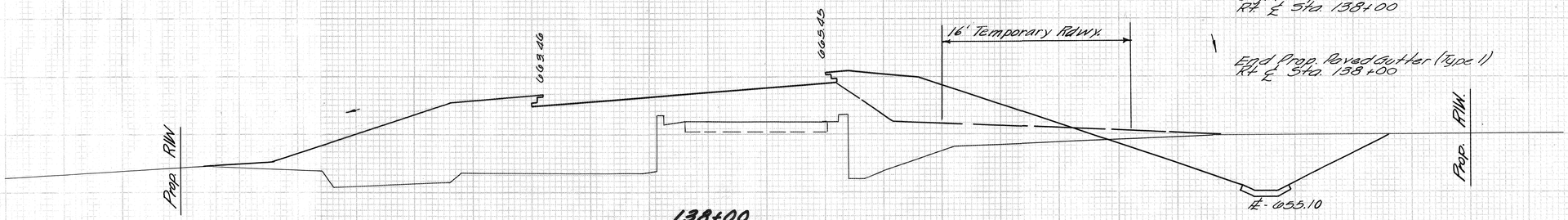
139+50
658.74



139+00
658.34



138+50
659.63



138+00
661.07

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		0	25
		17	117
		41	278
		28	183
		62	361
		39	233
		97	519
		66	329
		70	486
		10	106

Sta. 137+50 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 Sta. 137+50

STA. 138+00 TO STA. 139+50

SEEDING

END AREA		VOLUME	
CUT	FILL	CUT	FILL

PROJ. NO. DIVISION	STATE	PROJECT	
2	OHIO		

18
35

SCIOTO - PIKE COUNTIES
SCI - 776 - 2.55
PIK - 776 - 0.00

95

464

72

375

63

378

73

353

54

53 50

113 110

71 60

155 60

97 15

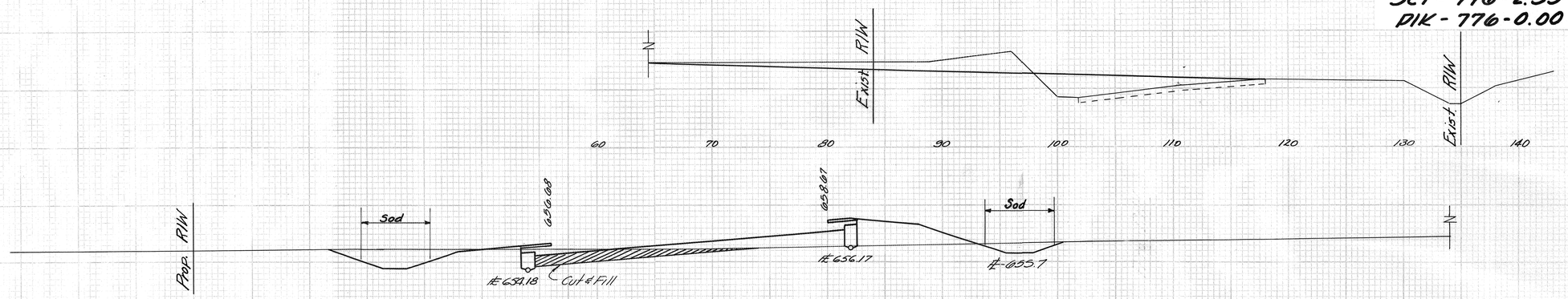
6 12

203 25

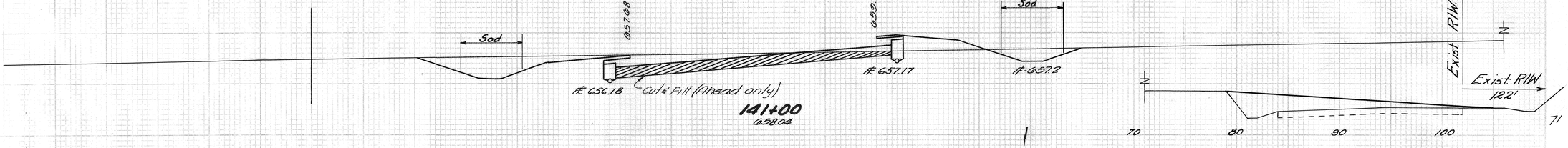
123 12

129 119

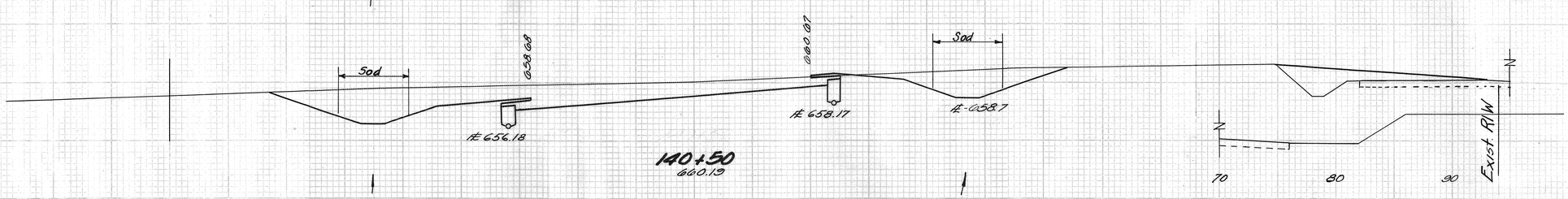
17 117



141+50
658.29



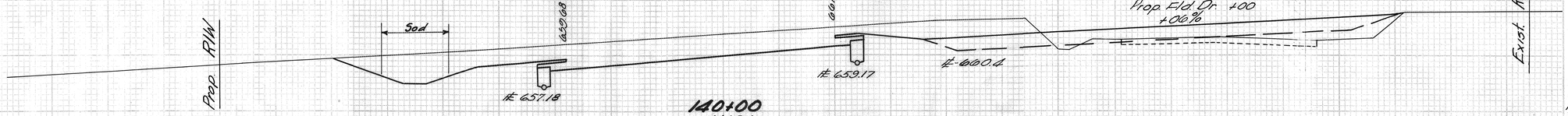
141+00
658.04



140+50
660.19

Begin Prop. Sod Ditch
Lt. ℄ Sta. 140+00

Begin Prop. Sod Ditch
Rt ℄ Sta. 140+10



140+00
661.94

End Prop. Sod Ditch
Rt ℄ Sta 139+92

Sta 139+50

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

Sta 139+50

STA. 140+00 TO STA. 141+50

SEEDING

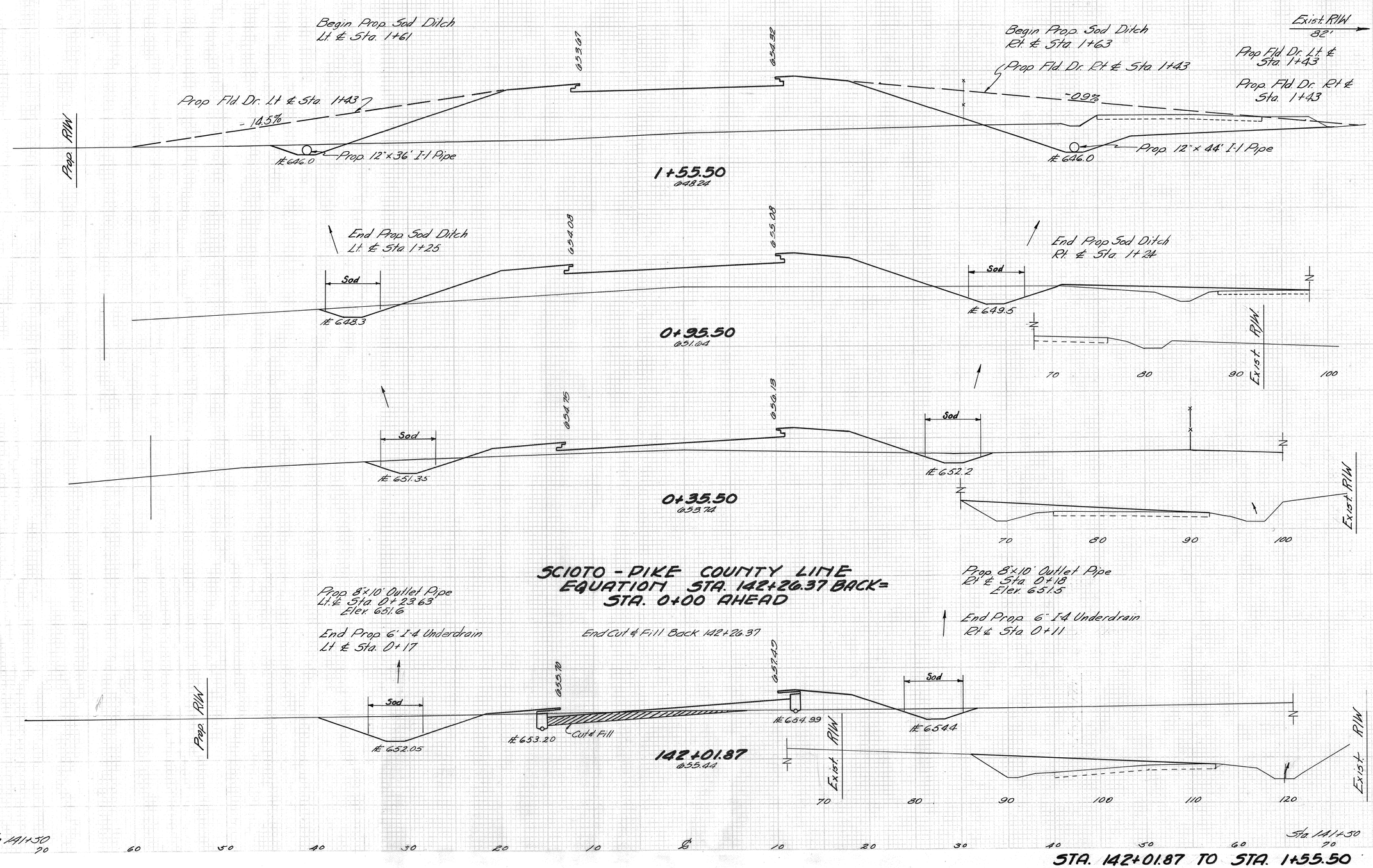
SQ YDS VIDEO	SQ YDS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

19
35

SCIOTO-PIKE COUNTIES
SCI - 770 - 2.55
PIK - 770 - 0.00

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		0	85
		0	195
98		75	286
620			107 478
88		21	142
543		39	242
75		15	76
297			47 98
76		60	82
492		86	125
95		30	48



STA. 142+01.87 TO STA. 1+55.50

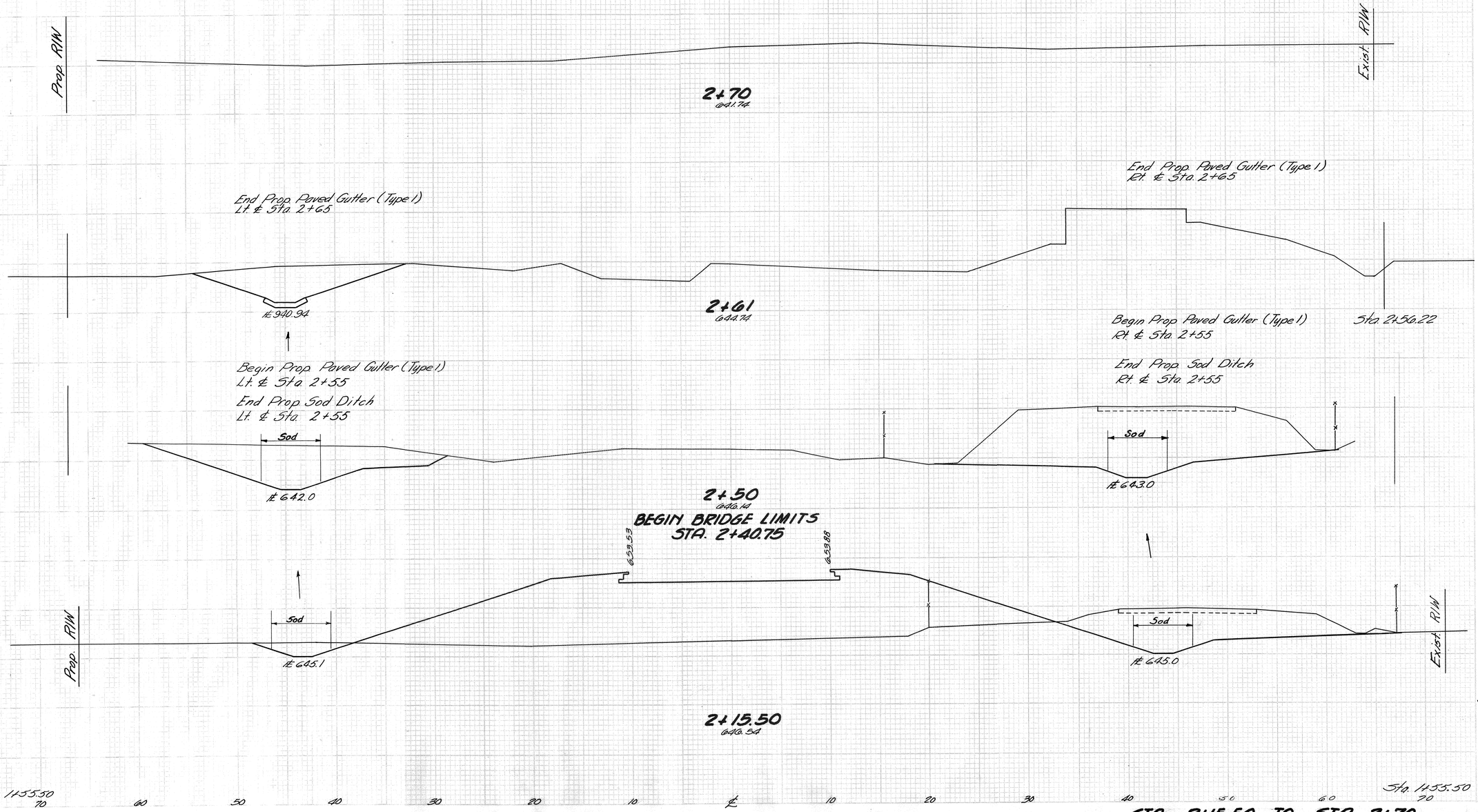
SEEDING

END WIDTH	SQ. YDS.
0	
9	
19	
57	
74	
434	
100	
660	
98	

FED. RD. DIVISION	STATE	PROJECT		20 35
2	OHIO			

SCIOTO-PIKE COUNTIES
SCI - 776 - 2.55
PIK - 776 - 0.00

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
8	21		
70	181		
108	341		
99	353		
193	710		
75	286		



STA. 2+15.50 TO STA. 2+70

SEEDING
END WIDTH | SQ. YDS.

FED. RD. DIVISION: 2 | STATE: OHIO | PROJECT:

21
35

SCIOTO - PIKE COUNTIES
SCI - 776 - 2.55
PIK - 776 - 0.00

END AREA CUT | END AREA FILL | VOLUME CUT | VOLUME FILL

Begin Prop. 6" I-4 Underdrain
Lt. ℄ Sta. 3+34

Prop. 8"×10' Outlet Pipe
Lt. ℄ Sta. 3+26 El. 643.0

653.39

654.33

Begin Prop. 6" I-4 Underdrain
Rt. ℄ Sta. 3+26

Prop. 8"×10' Outlet Pipe
Rt. ℄ Sta. 3+24 El. 649.5

Prop. R/W

℄ 643.0

3+23.16
644.54

Exist. R/W

85 — 7 563

END BRIDGE LIMITS
STA. 3+07.25

143 — 35 242

℄ 641.5

3+00
644.74

26 — 75 0

16 — 13 0

℄ 641.10

2+94
644.04

21 — 46 0

19 — 14 0

Prop. R/W

℄ 640.59

Exist. R/W

21 — 46 0

2+86
640.64

19 — 4 0

Sta. 2+82.22

0 — 0 0

Sta. 2+70 — 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

STA. 2+86 TO STA. 3+23.16

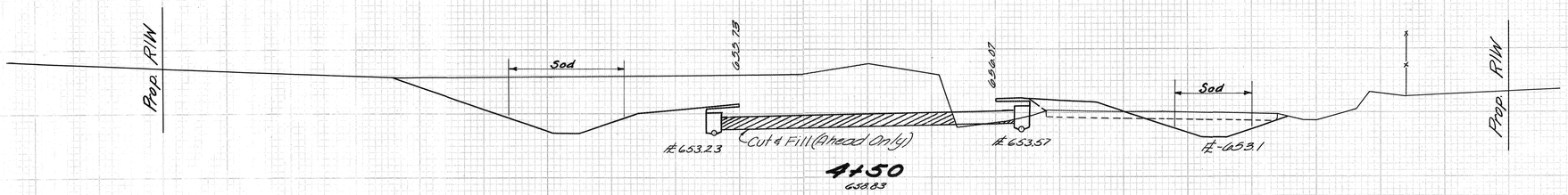
SEEDING

END AREA		VOLUME	
CUT	FILL	CUT	FILL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

22
35

SCIOTO - PIKE COUNTIES
SCI - 776 - 2.55
PIK - 776 - 0.00

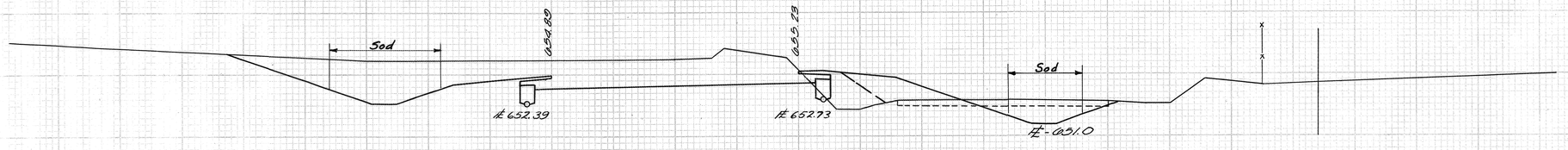


4+50
658.83

52 294

02 25

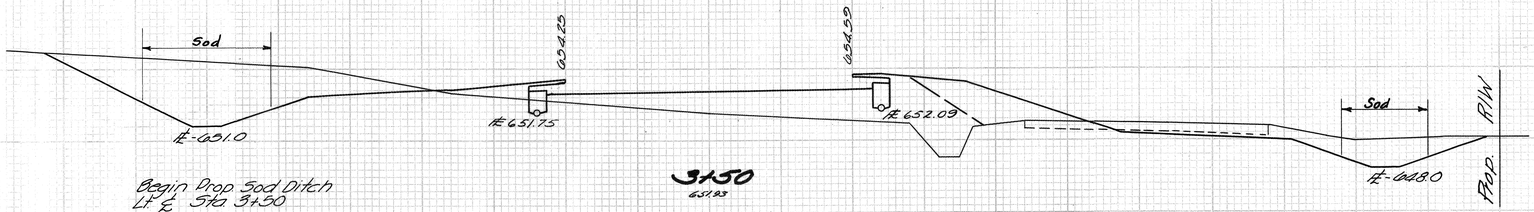
104 45



4+00
656.23

54

115 24



3+50
651.93

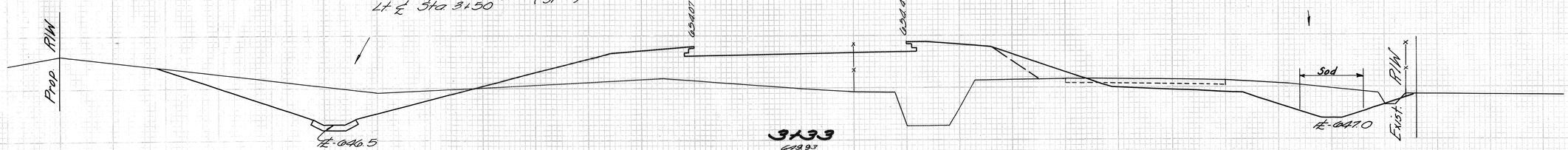
384 84

183 94

Begin Prop 3od Ditch
Lt ℄ Sta 3+50

End Prop Paved Gutter (Type I)
Lt ℄ Sta 3+50

83 78



3+33
649.93

173 99 101

49 78

71 170

17 123

Begin Prop 3od Ditch
Rt ℄ Sta 3+25

85

Sta 3+23 6/8 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 Sta 3+23 16

4 563

STA. 3+33 TO STA. 4+50

SEEDING

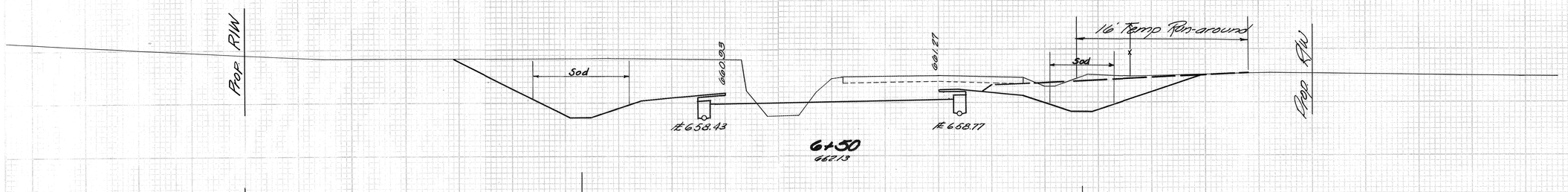
BND YDS	SQ YDS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

23
35

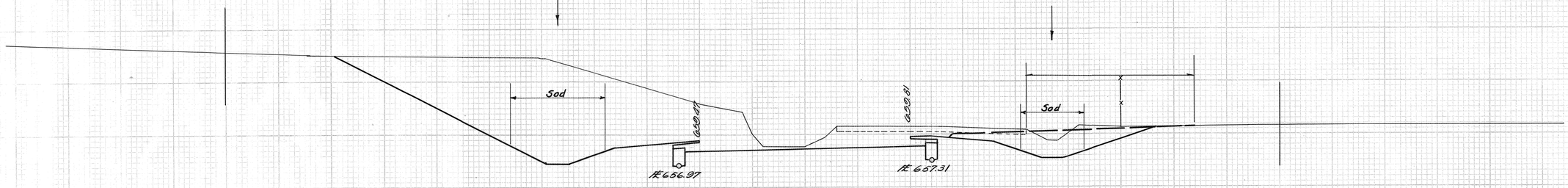
SCIOTO-PIKE COUNTIES
SCI- 770 - 2.55
PIK- 770-0.00

END AREA		VOLUME	
CUT	FILL	CUT	FILL



6+50
662.13

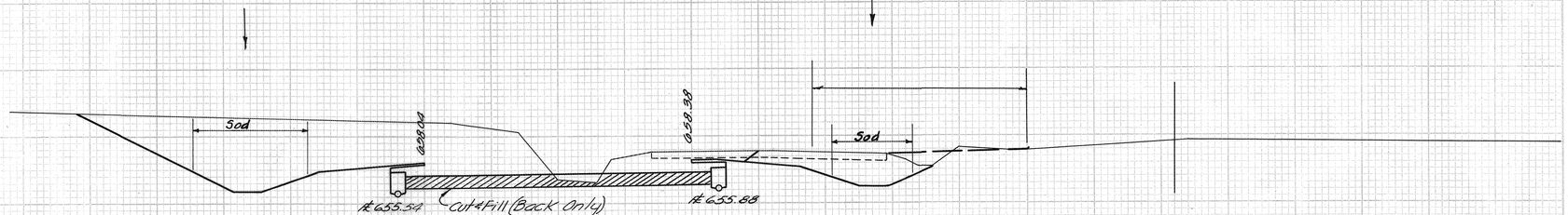
53 181 5



6+00
658.73

319 425 4

62 278 0

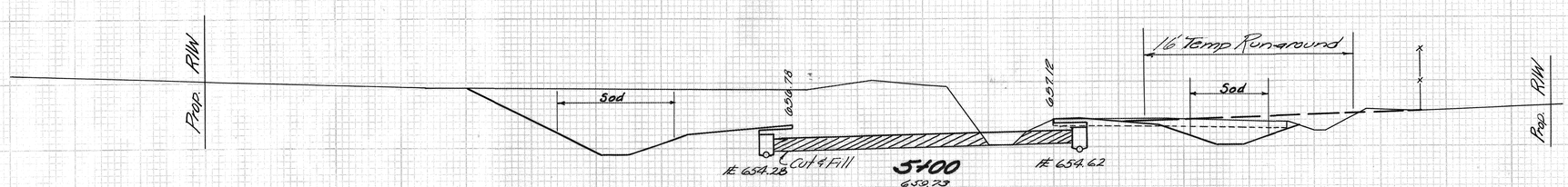


5+50
656.33

429 26

300 186 23

46 388 48



5+00
653.73

255 179 29

46 223 50

272

52 62 25

Sta 4+50 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 Sta 4+50

STA. 5+00 TO STA. 6+50

SEEDING

END WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

24
35

SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

END AREA		VOLUME	
CUT	FILL	CUT	FILL

Begin Prop. Sod Ditch
Lt. ℄ Sta. 8+57

Prop R/W

16' Temp Run-around

Sod

Prop R/W

Prop. 18"×82' F.3 Pipe-↵

℄ 664.4

℄ 664.10

666.40

666.34

℄ 664.44

8+50
671.41

348 0

60

330

614 0

59

+94
26" Walnut

℄ 662.0

℄ 662.79

663.29

663.69

℄ 663.13

8+00
669.11

315 0

Prop. 2-2B Catch Basin
18' Lt. ℄ Sta. 7+75
Grate Elev. 663.05
℄ Pipe 660.65

Prop. Res. Dr. Lt. ℄ Sta. 7+50

359

4.13%

Prop. Res. Dr. Lt. ℄ Sta. 7+50

Prop. 18"×38' T-1 Pipe

℄ 660.4

℄ 661.35

663.85

664.19

℄ 661.69

Sod

Prop. Res. Dr. Lt. ℄ Sta. 7+50

615 0

125 46

90

80

70

7+50
666.27

350 0

End Prop. Sod Ditch
Lt. ℄ Sta. 7+38

Prop. R/W

Sod

℄ 659.9

℄ 659.89

662.39

662.79

℄ 660.23

16' Temp Run-around

Sod

Prop R/W

369

507 0

63

7+00
664.13

198 0

322

351 4

53

Sta 6+50

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

Sta 6+50

181 5

STA. 7+00 TO STA. 8+50

SEEDING
END | MIDDLE | 50 | TOE

PROJ. NO. DIVISION	STATE	PROJECT	
2	OHIO		

25
35

SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

End Prop 6" I-A Underdrains
Lt & Rt ℄ Sta 11+00

16' Temp Run-around

Prop R/W

℄-668.30 — 670.96 — 11+00 — 671.17 — ℄-668.30

Prop R/W

42

289

℄-667.77 — 670.27 — 670.43 — 10+50 — 670.97 — 670.36 — ℄-667.86

44

261

℄-667.08 — 669.58 — 669.74 — 10+00 — 670.24 — 669.78 — ℄-667.28

50

End Prop Sod Ditch
Lt ℄ Sta 9+50

275

Sod

℄-666.72 — 668.22 — 9+50 — 671.03 — 669.20 — ℄-668.50

End Prop Sod Ditch
Rt ℄ Sta 9+50

Sod

49

Begin Prop Sod Ditch
Rt ℄ Sta 9+13

+09
14" Walnut

16' Temp Run-around

R/W

Prop Res Dr Rt ℄ Sta 9+00

289

Prop R/W

Sod

℄-665.25 — 667.75 — 9+00 — 671.11 — 668.25 — ℄-665.59

+10%
Prop Res Dr Sta 9+00

Prop 18" x 28' F-I Pipe

R/W

55

319

End Prop Sod Ditch
Rt ℄ Sta 8+86

60

Sta 8+50 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 Sta 8+50

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	72	2		
			150	2
	90	0		
			211	0
	138	0		
			303	0
	190	0		
			441	0
			28	11
	287	0		
			588	0
	348	0		

STA. 9+00 TO STA. 11+00

SEEDING

ENG. AREA	SQ. YDS.
EXIST.	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

26
35

SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

ENG. AREA		VOLUME	
CUT	FILL	CUT	FILL

13+50
67+80

Exist. R/W

13+00
67+88

+ 7.5 Hickory

END WORK
STA. 12+70 BACK =
STA. 12+64.03 AHEAD

Prop. R/W

E-669.50 E-669.50

12+50
67+62

16' Temp. Run-around

E-669.00 E-669.00

671.49
12+00
67+42

END PROJECT
STA. 11+75

E 668.75 E 668.85

671.33
11+50
67+18

Sta. 11+00 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 Sta. 11+00

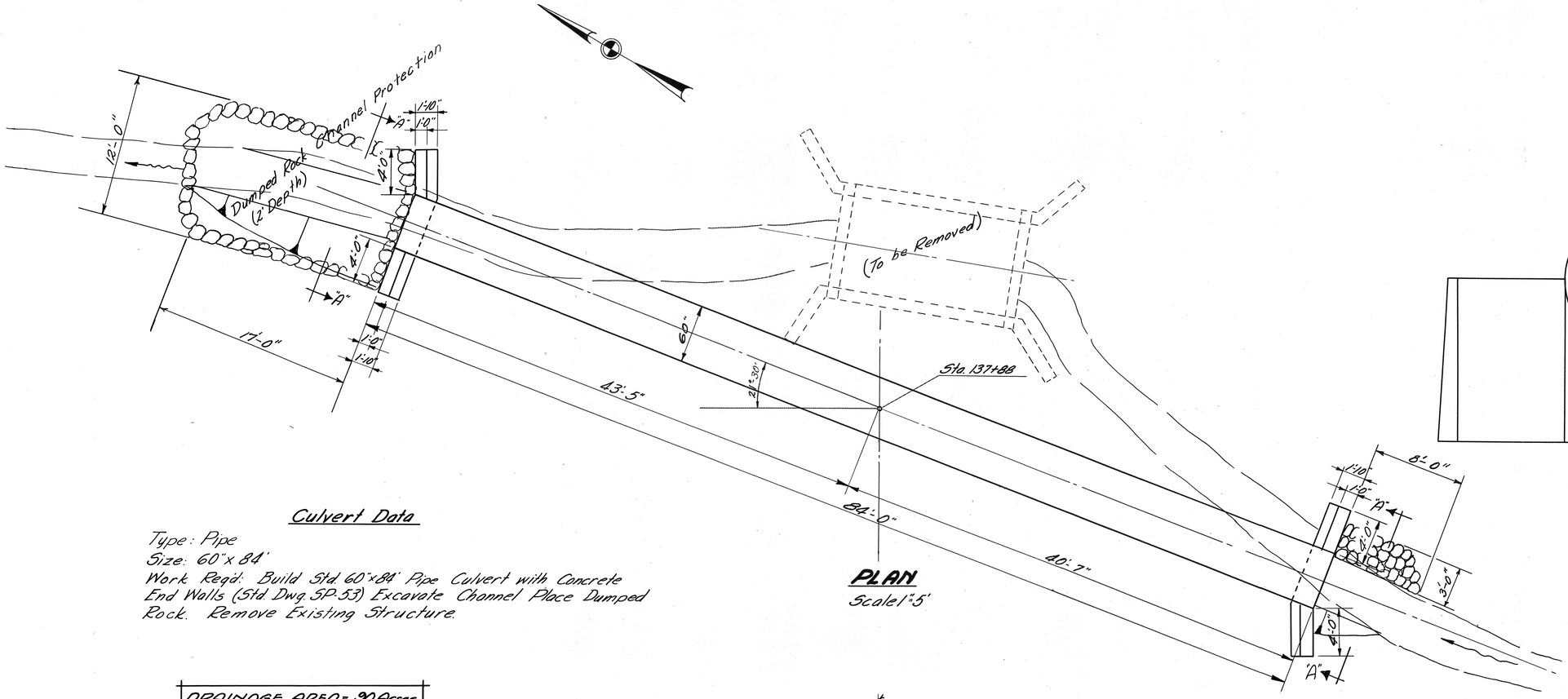
STA. 11+50 TO STA. 13+50

				0	0
			22	6	
33					
			24	7	
197					
			50	15	
38			30	9	
211			56	17	
38			31	10	
250			95	11	
52			72	2	

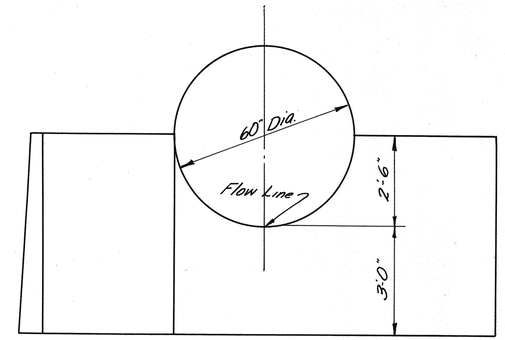
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

27
35

SCIOTO PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00



PLAN
Scale 1"=5'

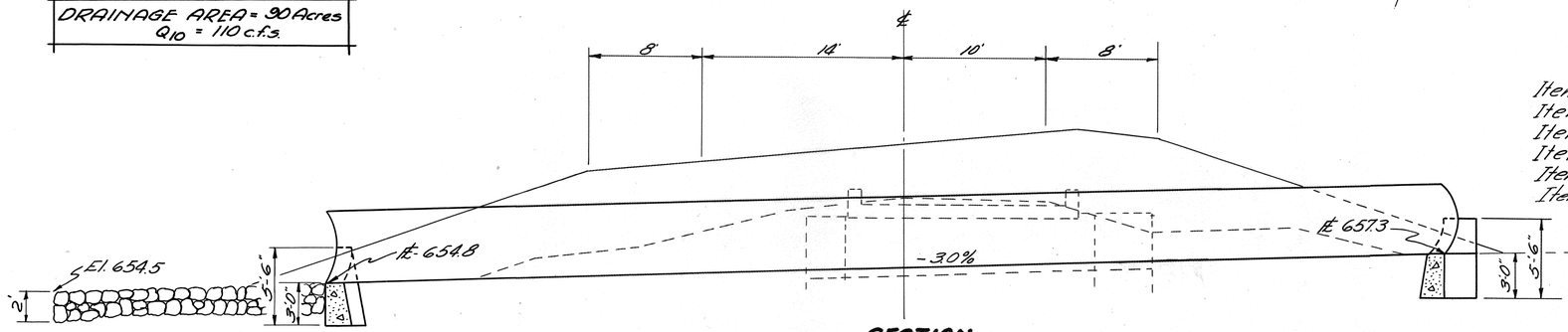


A-A
Scale ½"=1'0"

Culvert Data

Type: Pipe
Size: 60"x84'
Work Regd: Build Std 60"x84' Pipe Culvert with Concrete End Walls (Std Dwg SP-53) Excavate Channel Place Dumped Rock. Remove Existing Structure.

DRAINAGE AREA = 90 Acres
Q10 = 110 c.f.s.



SECTION
Scale 1"=5'

ESTIMATED QUANTITIES

Item E-2 Excavation for Structure	63 C.Y.
Item E-3 Channel Excavation	3 C.Y.
Item I-10 Dumped Rock Channel Protection	18 C.Y.
Item S-1 Concrete for Structure- Class "E"	6.7 C.Y.
Item S-27 60" Pipe for Roadway Culvert	84 L.F.
Item S-24 Removal of Existing Structures	Lump

NOTE:
If Sectional Corrugated Metal Structure is furnished for Item S-27, the gages shall be (10-10) or heavier.

(1)

PIPE CULVERT
STA. 137+88

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

28
35

SCIOTO & PIKE COUNTIES
SCI-776 - 2.55
PIK-776 - 0.00
12.5 Miles Southwest of Jackson

PROP. SPIRAL CURVE
P.I. Sta. 140+01.67
Δ=67°-15' Lt.
D=9°-00'
Ls=300'
Ts=577.02'
Es=135.03'
Xc=298.34'
Yc=23.47'
Qs=13.5

Δ=40°-15' Lt.
Dc=9°-00'
Lc=447.22'

Prop. ℄ Sta. 2+50
Exist. Ground
Elev. 646.14

Prop. ℄ Sta. 3+00
Exist. Ground
Elev. 644.62

Prop. ℄

51.70'
51.10'
33.80'
28.27'

Exist. Bridge No. PIK-776-0005

C.S. = 141+71.82

STA. 142+26.37 BACK = STA. 0+00 AHEAD

SCIOTO COUNTY
PIKE COUNTY

Transition from 3:1 to 2:1

End Appr. Slab Sta. 2+40.75

Prop. ℄

Sta. 2+45.50

Transition from 4:1 to 2:1

P.C. = 3+23.16

PROP. CURVE
P.I. Sta. 6+56.87
Δ=6°-40' Lt.
D=1°-00'
T=333.71'
L=666.67'
E=9.71'
R=5729.58'

Begin Appr. Slab Sta. 3+07.25

Transition from 3:1 to 2:1

Fill to Elev. 648.5± and slope to drain

Transition from 3:1 to 2:1

Exist. S.R. 776

Place suitable waste masonry here

GLADE RUN

El. 640.4±

El. 640.4±

+650.07

+36.35

+11.35

4.30"

3-0"

142

1+0

2+0

3+0

4+0

5

6+0

656

660

650

640

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling 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 does not guarantee the accuracy thereof.

BM. □ CUT IN SAND STONE, REAR ABUT LT. OF ℄ BR. PIK-776-0005
ELEV. 649.33

BRIDGE LIMITS

Clears assumed 5-10 yr. H.W. Elev. 2.8'±

600' V.C.
-2.00% +2.92%

Sta. 2+40.75

Sta. 3+07.25

Bench Elev. 650.2±

Assumed 5-10 yr. H.W. Elev. 649.8±

Bench Elev. 650.5±

Highest Water Elev. 650.60

3-5 Yr. High Water Elev. 649.00

All piles, 12 BP 53
Est. Avg. Pay Length = 14' (both Abutments)

Elev. 635.75

Excavate channel thru structure to Elev. 640.4±

V.P.I. = 2+72.75
Elev. 650.14

EL. 656.14

-2.00%

142+26.37 Scioto Co. Back = 0+00 Pike Co. Ahead

656.14 656.07 655.94 655.87 655.55 655.28 654.08 653.90 653.78 653.72 653.70 653.74 653.83 653.97 654.16 654.41 654.70 655.09 655.44 655.86 656.39

656.14 655.44 654.74 654.54 653.74 652.34 651.64 650.24 648.24 647.14 646.54 645.84 646.14 646.02 641.52 640.42 643.52 644.62 647.12 651.98 655.93 656.23 658.83

+71.87 142 +50 +65.5 1+0 +25.5 +50 +85.5 2+0 +15.5 +45.5 +50 +55.5 +10 +85 +90 3+0 +08 +50 +60 4+0 +50 5+0

EXISTING BRIDGE DATA

Bridge No.	PIK-776-0005
Type	Steel Beam
Span	34'-6"
Roadway	11'-6"
Condition	Poor
Reduction	65%
Suff. Rating	26
Ht. Gr. to H.	10'-0"
Ht. Gr. to H.W.	4'-0"

DRAINAGE AREA = 4.28 Sq. Mi.

PROPOSED STRUCTURE

Type: Continuous reinf. concrete slab with capped pile abuts. & concrete piers.
Spans: 20'-25'-20' c/c brgs.
Roadway: 24' f/f 2'-0" safety curbs.
Load Frequency: CF - 30 (57)
Skew: None
Wearing Surface: 1½" monolithic concrete.
Approach Slabs: AS-1-54 (25' long)
Alignment: Tangent
Superelevation: 0.017 ft per ft.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. PIK-776-0005
over Glade Run
PIKE CO. S.R. 776
SEC.
STA. 2+40.75
3+07.25
SCALE 1" = 20'

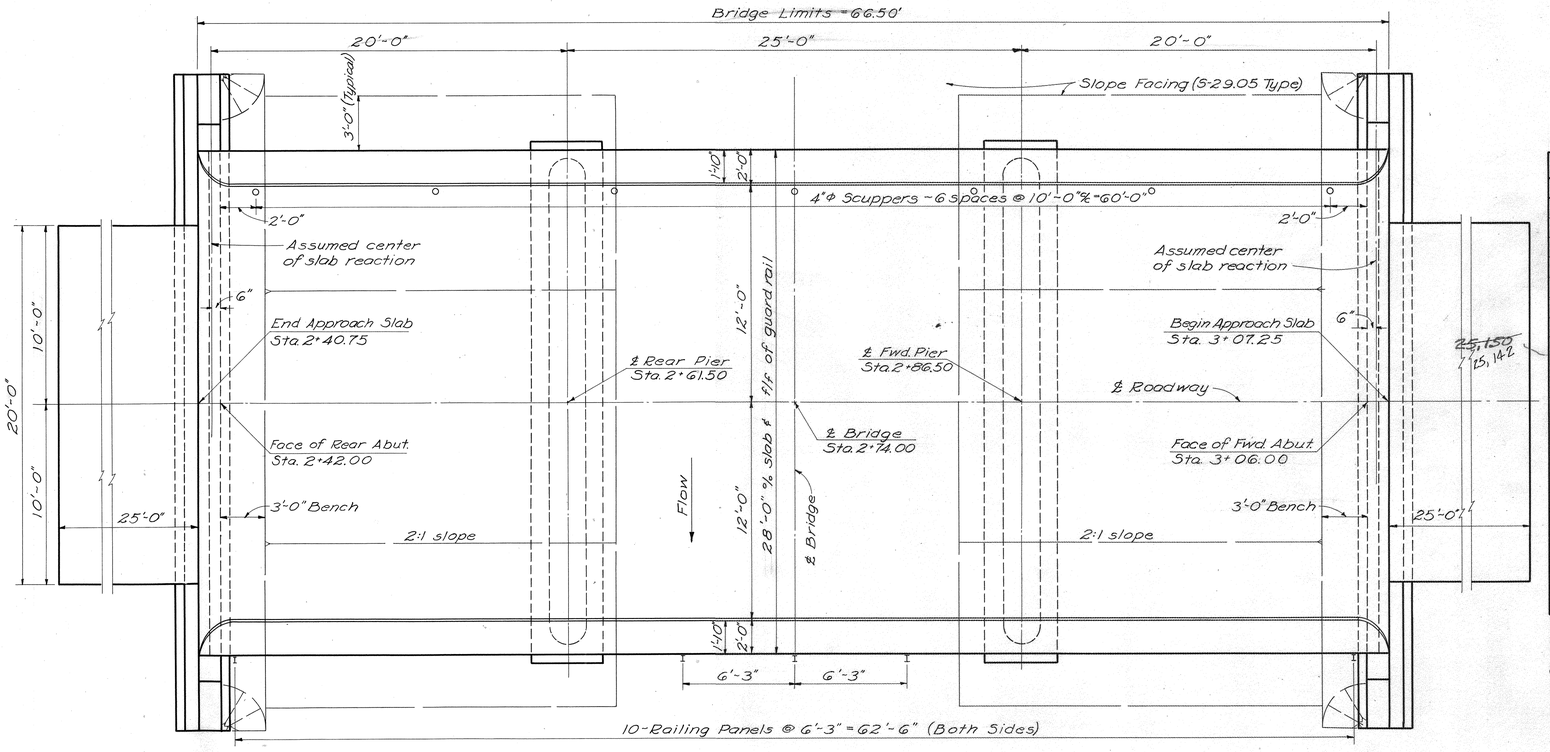
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	H.L.C.	H.L.C.	J.N.B.	E.E.S.

BFG 9:04 10-17-58

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

29
35

SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00



GENERAL PLAN

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT	PIERS	GEN'L	As Built	
E-2	Lump	Sum	Cofferdams, cribs, and sheeting				Lump		
E-2	131	cu.yds.	Unclassified excavation, including rock		44	87			
E-3	~~298~~ 277	cu.yds.	Channel excavation				298	C-1,-21 277	AB
S-1	71	cu.yds.	Class "C" concrete, superstructure	71					
S-1	39	cu.yds.	Class "E" concrete, abutment		39				
S-1	60	cu.yds.	Class "E" concrete, pier walls			60			
S-1	17	cu.yds.	Class "E" concrete, pier footings 15,594			17			
S-1	24,571	lbs.	Reinforcing steel ~~16,682~~ 16,023		4,375	4,173		C-1, 1571 25,142	AB
S-9	11	sq.ft.	½" preformed expansion joint filler		11				
S-14	133	lin.ft.	Railing (Type I-15.13 with handrail and galvanized steel posts and bolts)	133					
S-16	Lump	Sum	First test pile				Lump		
S-18	~~170~~ 137	lin.ft.	Steel piles, 12 BP 53		170			C-1, -33 137	AB
S-24	Lump	Sum	Removal of existing structure				Lump		
S-29	21	cu.yds.	Porous backfill		21				
S-29	59	cu.yds.	Slope Facing (S-29.05 Type)				59		
S-29	7	ea.	Scuppers, 4" diam. cast iron or wrought iron pipe	7					

GENERAL NOTES

REFERENCE shall be made to Standard Drawing CS-2-54, dated 12-1-54, except that the slope of the face of the curb shall be 2" instead of 3".

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed. Suitable waste masonry shall be placed as bank protection where shown on Site Plan at the direction of the Engineer.

PILES shall be driven to firm contact with rock. If the length of penetration is approximately equal to the depth to rock according to the bridge foundation investigation report, the firm contact shall be considered as attained when the capacity according to the formula in Sec. S-18.05 is not less than the following value for a pile hammer of the indicated energy rating:

38 tons per pile using a 7000 ft. lb hammer;
29 tons per pile using a 11000 ft. lb. hammer;
27 tons per pile using a 15000 ft. lb. or greater hammer.

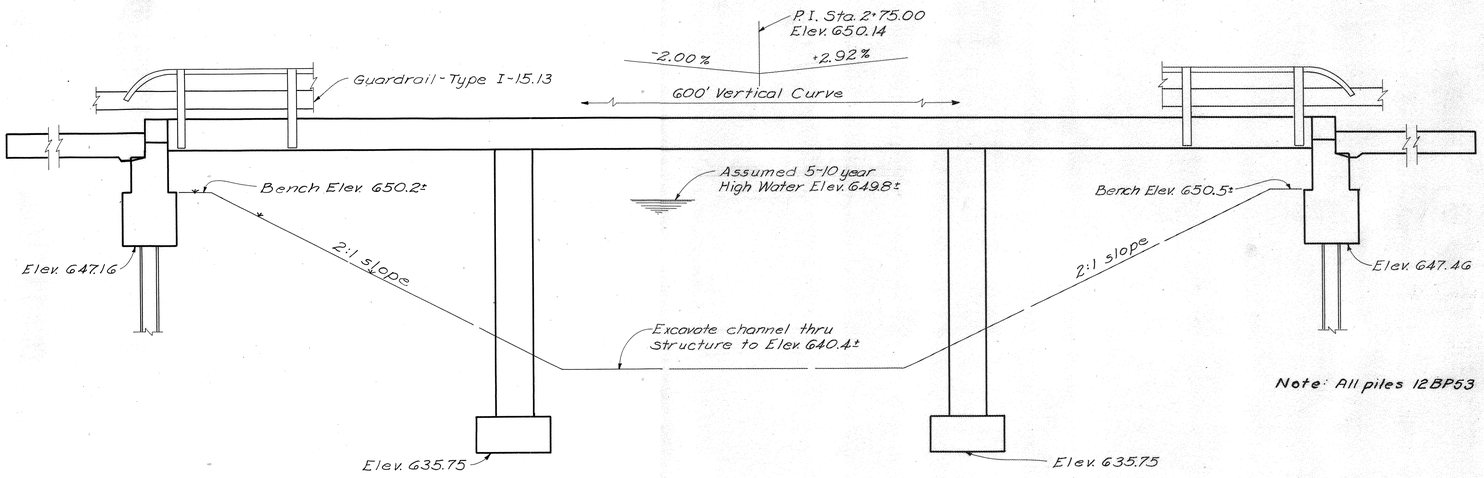
If the energy rating of the hammer is between the ratings as shown above, the required formula capacity shall be determined by interpolation. The design load is 20 tons per pile.

PIER FOOTINGS shall extend a minimum of 3" into solid rock or to the elevation shown, whichever is lower.

FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure of 5 tons per sq. ft.

SLOPE FACING (S-29.05 Type) shall be provided under the structure at both abutments. The porous drain material shall be 12" thick and shall extend from the face of the abutment down to Elev. 640.4± and transversely to 3 ft. outside the edge of the superstructure.

SLAB THICKNESS is 10¾" which includes ½" for monolithic wearing surface.



ELEVATION

Note: All piles 12BP53

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

GENERAL PLAN & ELEVATION NOTES, & ESTIMATED QUANTITIES BRIDGE NO. PIK-776-0005 OVER GLADE RUN

PIKE COUNTY STA. 2+40.75 3+07.25

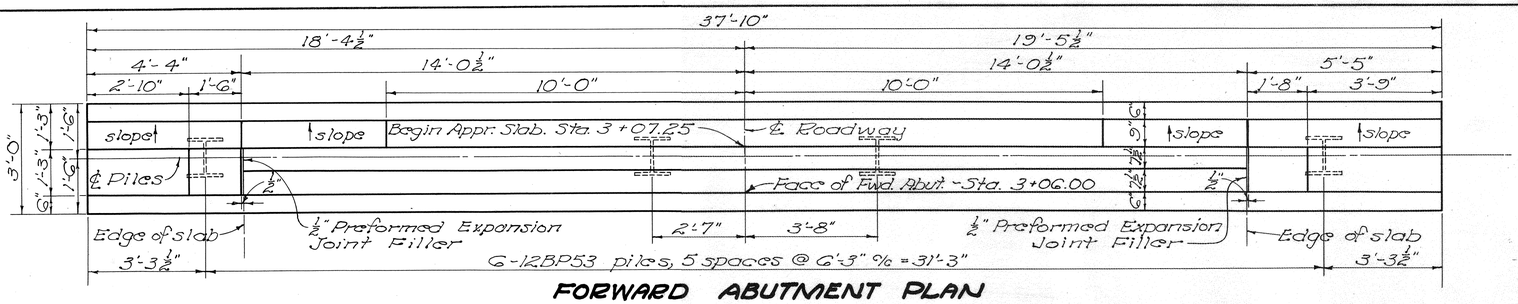
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MRG	MRG	JEP	JDJ	BPG QAR	10-17-58	9-24-59

H.E.R. 11-20-59 AB Revised As-Built

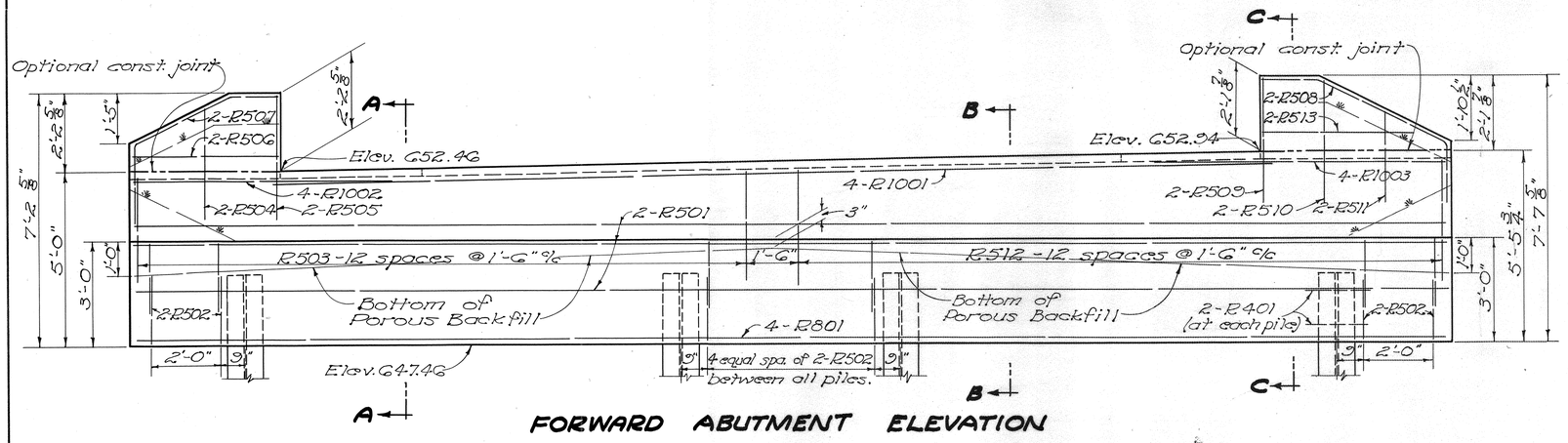
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

30
35

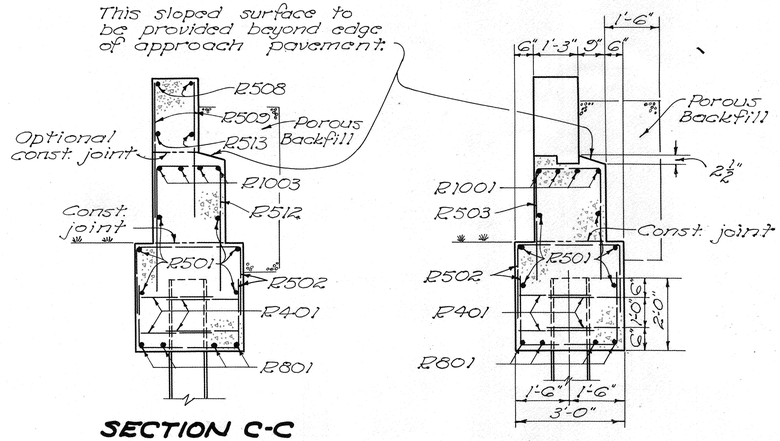
SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00



FORWARD ABUTMENT PLAN

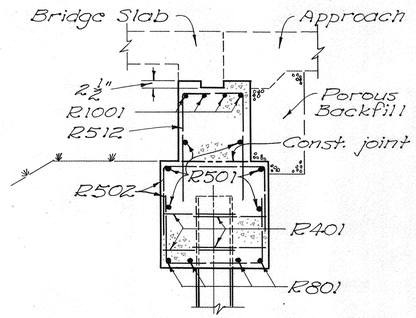


FORWARD ABUTMENT ELEVATION

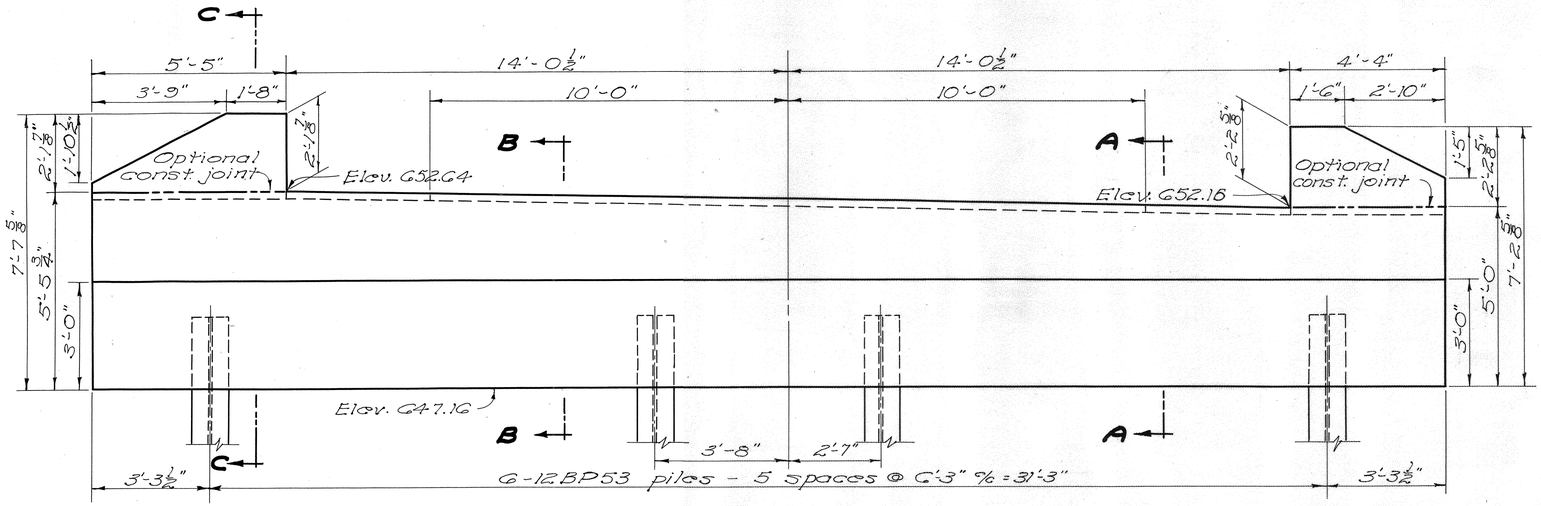


SECTION C-C

SECTION A-A



SECTION B-B



REAR ABUTMENT ELEVATION

NOTE: For details not shown, see Forward Abutment above.

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used for any or all parts of the abutments.

POROUS BACKFILL shall extend upward to the approach slab and to the surface of the earth shoulders, and outward to the surface of the embankment slopes. Excavation therefor, in excess of that required for construction of the abutment, shall be considered as paid for in the bid price per cu. yd. paid for porous backfill.

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

ABUTMENT DETAILS

BRIDGE NO. PIK-776-0005
over GLADE RUN

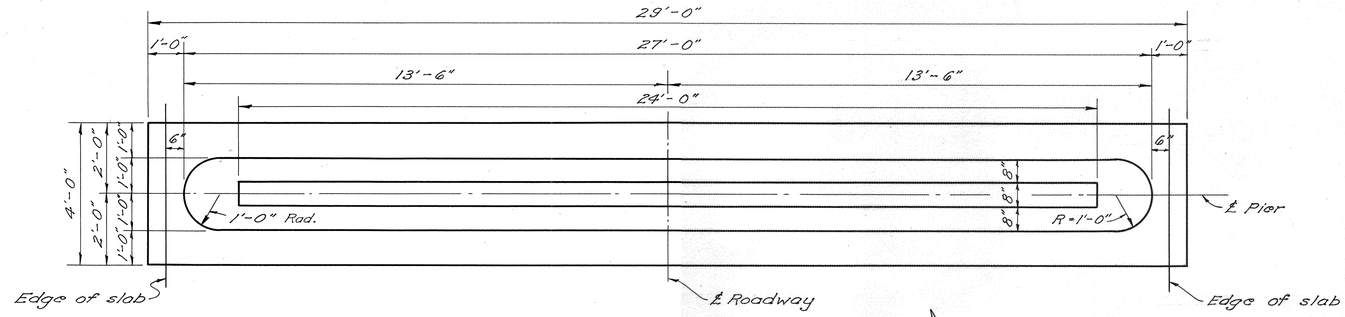
PIKE COUNTY STA. 2+40.75
3+07.25

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
NRG.	NRG.	R.E.M.	J.D.J	BFG G.F.K.	10-17-58	

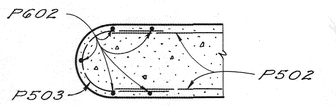
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

31
35

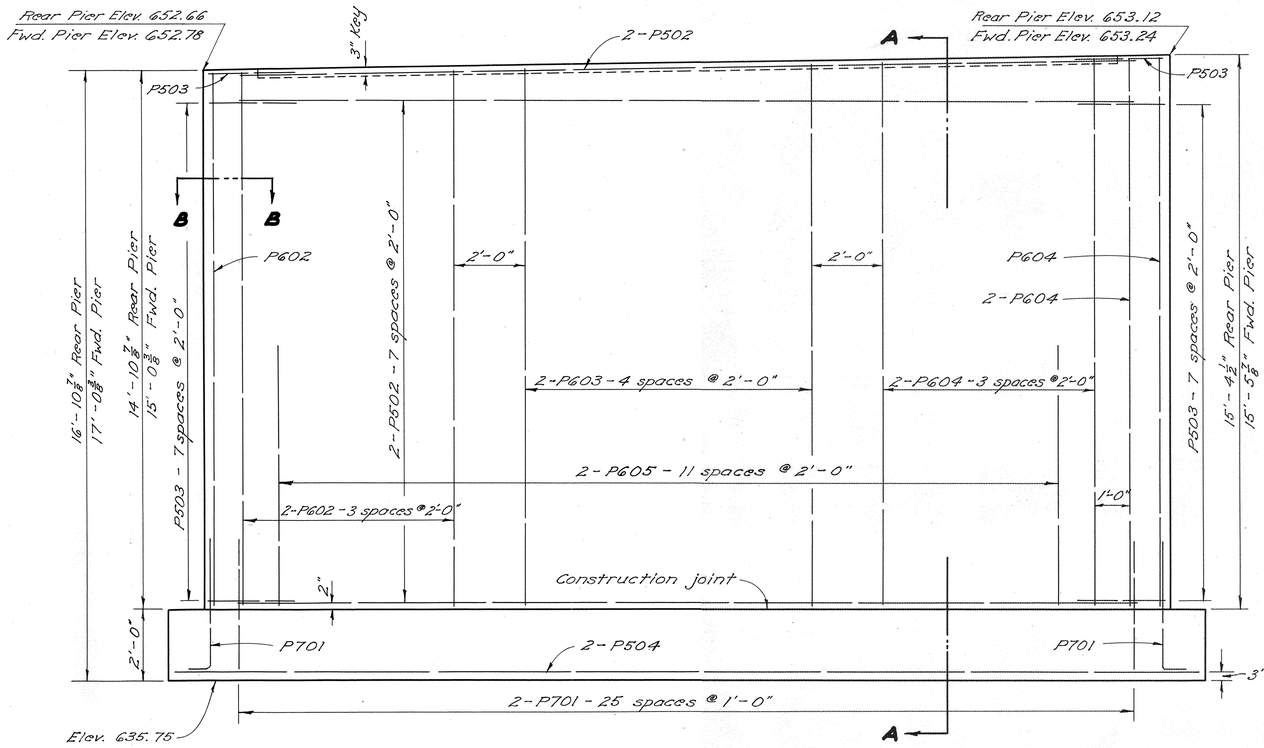
SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00



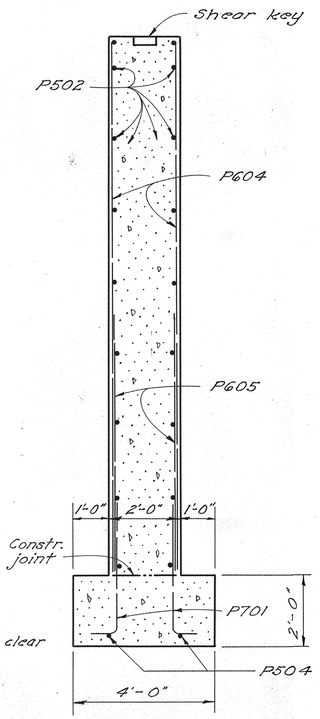
PIER PLAN



SECTION B-B



ELEVATION

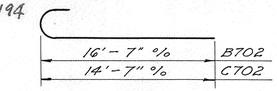


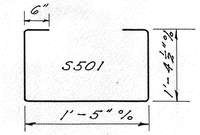
SECTION A-A

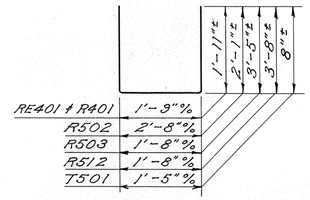
REINFORCING STEEL LIST

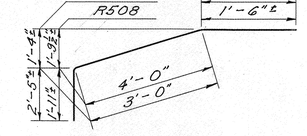
Mark	No.	Length	Weight	Shp	Bending Diagrams
Superstructure					
A702	75	23'-7"	3615	S	
B702	24	17'-5"	854	B	
C702	24	15'-5"	756	B	
D702	12	17'-0"	417	S	
E702	12	13'-0"	319	S	
F802	48	16'-1"	2061	S	
G802	24	8'-7"	550	S	
H802	22	7'-6"	441	S	
J601	24	14'-1"	508	S	
K601	12	13'-6"	243	S	
M601	57	27'-6"	2354	S	
N601	47	27'-6"	1941	S	
0501	6	14'-6"	91	S	
P501	12	15'-4"	192	S	
R602	20	13'-8"	411	S	
S501	172	4'-7"	822	B	
T501	172	2'-6"	448	B	
Abutments					
R1001	8	28'-1"	967	S	
R1002	8	7'-4"	252	S	
R1003	8	8'-5"	290	S	
R801	8	37'-6"	801	S	
R501	12	37'-6"	469	S	
R502	116	6'-7"	797	B	
R503	26	8'-3"	224	B	
R504	4	3'-3"	14	S	
R505	4	3'-7"	15	S	
R506	4	4'-0"	17	S	
R507	4	6'-9"	28	B	
R508	4	7'-5"	32	B	
R509	4	3'-6"	15	S	
R510	4	3'-5"	14	S	
R511	4	2'-7"	11	S	
R512	26	8'-9"	237	B	
R513	4	4'-3"	18	S	
R401	48	5'-5"	174	B	
Piers					
P701	108	4'-9"	1049	B	
P602	18	14'-7"	394	S	
P603	20	14'-3"	443	S	
P604	22	14'-11"	493	S	
P605	48	7'-3"	523	S	
P502	36	25'-0"	939	S	
P503	36	5'-8"	213	B	
P504	4	28'-6"	119	S	
Replacement Bars					
RE1001	1	7'-2"	—	S	
RE801	1	6'-6"	—	S	
RE701	1	6'-2"	—	S	
RE601	1	5'-11"	—	S	
RE501	1	5'-7"	—	S	
RE401	1	5'-5"	—	B	

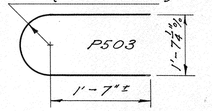
87 4194

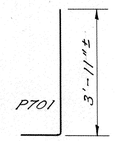












REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 5-4.02 need not be furnished and replacement bars will not be required.

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

PIER DETAILS & REINFORCING STEEL LIST

Bridge No. PIK-776-0005
over Glade Run
Sta. 2+40.75
3+07.25
Pike County

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MRG	MRG		JDJ	BFG A.F.F.	10-17-58	3-24-59

DRAWN ON IMPERIAL TRACING CLOTH FORM NO. 8824

SEEDING

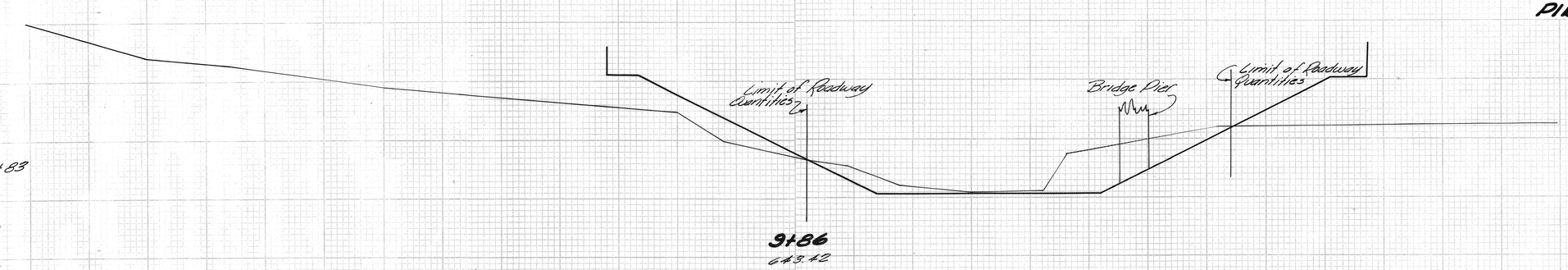
END YARDS	SQ. YDS.

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

32
35

SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

END AREA		VOLUME	
CUT	FILL	CUT	FILL



15 Sta 9+83

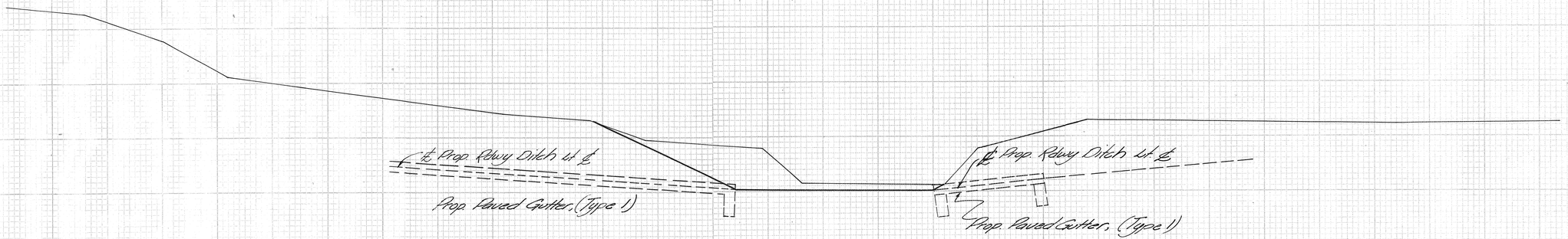
51 0

9+86
C&S 42

79

89 0

15



45 0

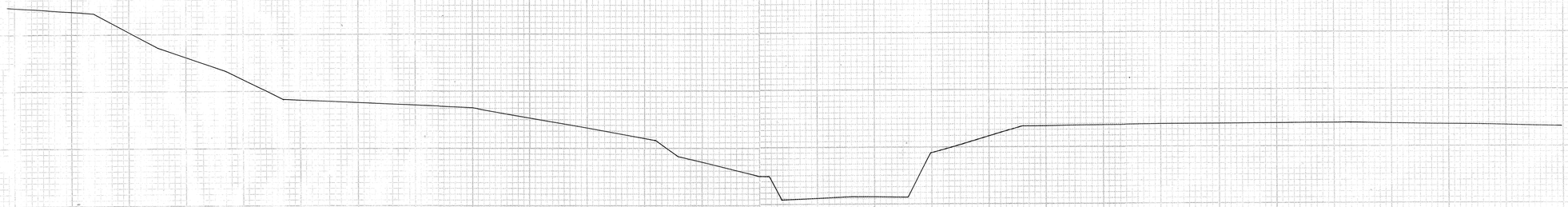
27

9+96
C&S 12

26 0

0 0 Sta. 9+04

Sta. 9+04 0 0



8+86
C&S 32

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

CHANNEL SECTIONS STA. 2+91.22

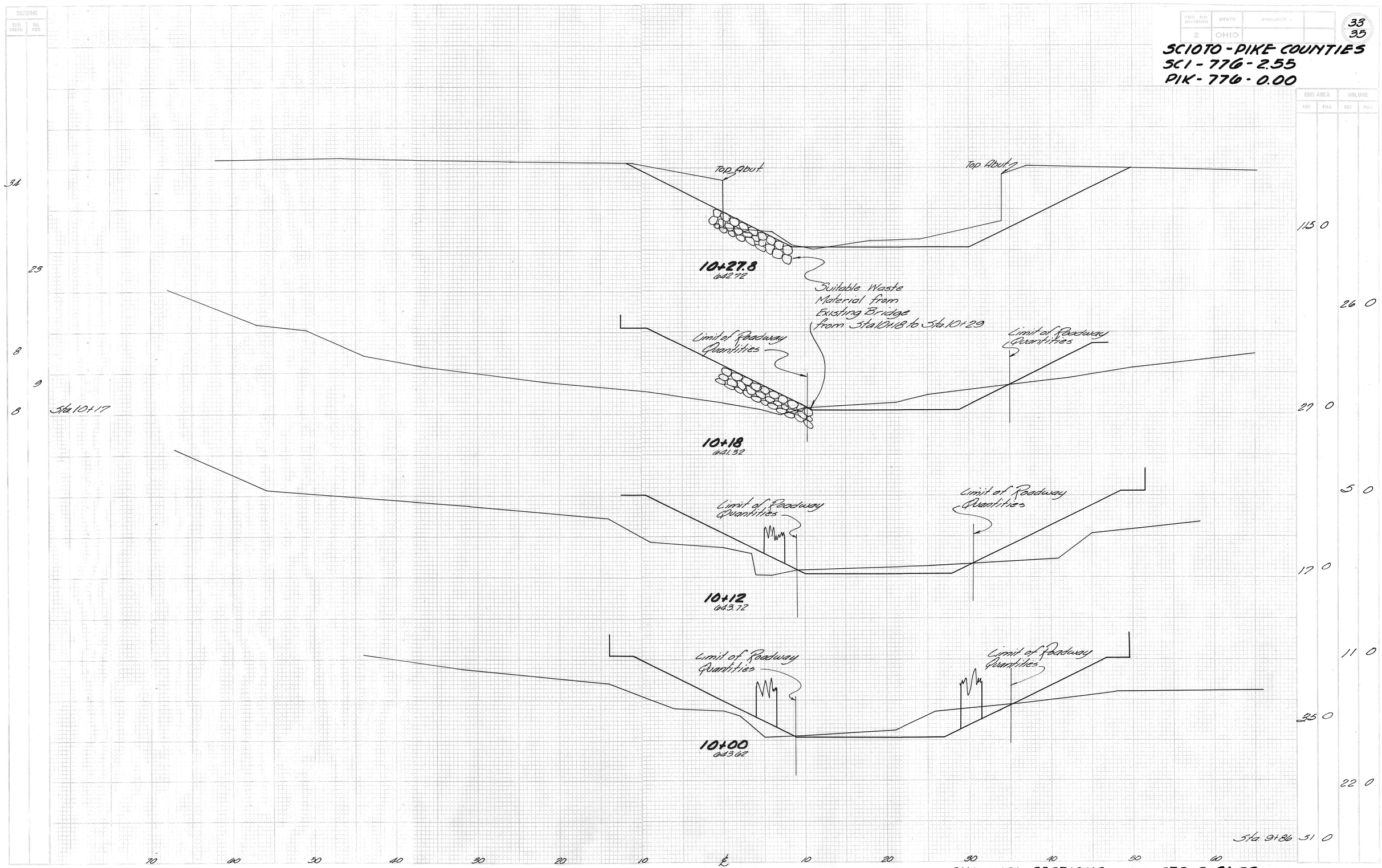
SEEDING	
END WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

33
35

SCIOTO - PIKE COUNTIES
SCI - 776 - 2.55
PIK - 776 - 0.00

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CHANNEL SECTIONS STA. 2+91.22

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

34
35

SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00

SEEDING
S/B TOP FILL | SQ. YDS.

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	Sta 101+58		
1			
3			
25			
39			
38			
40			
34			
34	Sta. 101+27.8		

10+86
ad5.62

10+54
ad1.32

10+43.8
ad2.72

10+36
ad0.19

Top Abut.

Top Abut.

Sta 101+58 0 0

8 0

12 0

20 0

12.8 0

40 0

14.3 0

4.2 0

Sta. 101+27.8 11.5 0

℄ Prop. Relwy Ditch 2

Toe Walls

℄ Prop. Paved Gutter Type 1

ESTIMATED QUANTITIES

238 Cu. Yds.
38 Cu. Yds.
236 Sq. Yds.

E-3 Channel Excavation
3-89 Drainage Structures Type S-3
2-9 Seeding

10 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

CHANNEL SECTIONS STA. 2+91.22

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

35
35

R/W PLAN
SCI. 776-2.55
DIK. 776-0.00

UTILITIES:
℗ Power Line Owned by The Ohio Power Company.
301-315 Cleveland Ave. S.W., Canton 2, Ohio
℗ Power Line Owned by The Ohio Valley Electric Company.
Box 225 ; Chillicothe, Ohio
T Telephone Line Owned by The Minford Telephone Company.
R.F.D. #1 ; Minford, Ohio

PRIOR SPIRAL CURVE
P.I. 140+01.62
Δ 67°15'24" Xs 298.38'
Ds 9°00' Y 63.67'
Ls 300' Qs 13°30'
Ts 177.02 Ls 447.22'
Es 135.03' Rc 636.62'

JOHN C. MILLER

ROSCO PILES

RAYMOND T. & HELEN BROWN
PARCEL N° 2
1.39 Ac. - Pres. Rd. 0.72 Ac.
PARCEL N° 2X
0.11 Ac.
W.A. Lt. & Sta. 7+50

SCOTT & CELLA J. THOMPSON
PARCEL N° 1
1.21 Ac. - Pres. Rd. 1.04 Ac.
PARCEL N° 1X
0.03 Ac.
W.A. Lt. & Sta. 139+50

MARION TOWNSHIP
PIKE COUNTY
SECT. 35, T5N, R20W
SCIOTO COUNTY
MADISON TOWNSHIP

RAYMOND & HELEN BROWN
PARCEL N° 2
1.39 Ac. - Pres. Rd. 0.72 Ac.
PARCEL N° 2X
0.11 Ac.
W.A. Lt. & Sta. 7+50

RAYMOND & HELEN BROWN
PARCEL N° 2
1.39 Ac. - Pres. Rd. 0.72 Ac.
PARCEL N° 2X
0.11 Ac.
W.A. Lt. & Sta. 7+50

EQUATION
STA. 142+36.37 (Back) =
STA. 0+00 (Ahead)

HERMAN BLAIR
PARCEL N° 3
0.33 Ac. - Pres. Rd. 0.56 Ac.
W.A. Rt. & Sta. 6+62

LOUELLA BROWN Et al.

BROOKS MILAM

BEGIN WORK
STA. 134+00

BEGIN PROJECT
STA. 135+00

END WORK
STA. 12+70

END PROJECT
STA. 11+75

Transmission Tower
OVEC #3CIR 2-150

COMPLETION DATE 10/31/58		
Revised	Revision Description	By
11/25/58	Rt. Sta. 139+00 ± to Sta. 0+50	C.J.S.

SOIL PROFILE
SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00
STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

1/2

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.

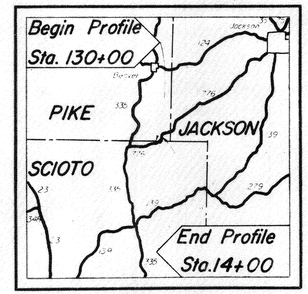
LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 41 SAMPLES TESTED

DESCRIPTION	H. R. B. CLASS	OHIO CLASS	% AGG	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
Gravel with sand	A-1-b(0)	A-1-b	57	11	13	13	6	NP	NP	11	3
Coarse and fine sand	—	A-3a	3	3	69	19	6	NP	NP	22	4
Gravel or stone fragments with sand and silt	A-2-4(0)	A-2-4	55	4	11	21	9	NP	NP	11	3
Stone fragments with sand, silt, and clay	A-2-6(1)	A-2-6	49	4	13	13	15	29	13	16	1
Sandy silt	A-4 (5)	A-4a	15	5	21	40	13	25	3	16	17
Silt	A-4 (8)	A-4b	4	2	18	55	21	25	3	18	8
Silt and clay	A-6 (8)	A-6a	10	4	15	39	32	33	13	15	2
Elastic clay	A-7-5(19)	A-7-5	0	2	2	22	74	60	28	30	2
Clay	A-7-6 (18)	A-7-6	0	2	5	40	53	54	29	28	1
Sandstone	Visual classification										
Weathered sandstone	Visual classification										

Samples Taken
Lab. Nos. So. 94548 - 94588 Incl.

Auger boring plotted to vertical scale only.
Auger boring-plan view
Free water
Sod & Topsoil = X' = Approximate depth.
Berm material
● Water content nearly equal to or greater than liquid limit.

Note: Figures beside borings indicate water content in percent.



LOCATION MAP

Recon I.M.-6-13-58
Drilling-C.A.S.-6-17-58
Drafting-Z.K., L.N.L., R.V.S., W.L.T.-7-22-58

SUMMARY OF SOIL TEST DATA

NOTE: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.

Station & Offset		Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	Pl.	% W.C.	SHTL Class.
134+00	18'LT	0.6-2.0	11	4	14	48	23	25	7	23	A-4a
		2.0-5.0	0	2	17	43	38	33	12	15	A-6a
		5.0-9.0	0	0	39	40	21	NP	NP	18	A-4a
		9.0-12.0	0	1	70	19	10	NP	NP	26	A-3a
136+00	10'RT	0.4-3.0	15	4	17	42	22	25	7	22	A-4a
		3.0-10.0	49	4	13	19	15	29	13	16	A-2-6
		10.0-12.0	54	5	13	19	9	22	6	9	A-2-4
137+85	8'LT	0.4-2.0	10	5	20	40	16	NP	NP	20	A-4a
		2.0-5.0	18	5	16	43	18	NP	NP	23	A-4a
		5.0-7.5	57	10	15	13	5	NP	NP	9	A-1-b
138+30	8'LT	0.6-2.0	5	1	15	27	22	27	6	27	A-4b
		2.0-6.0	52	13	12	15	8	22	4	15	A-1-b
		6.0-7.0	31	10	18	31	10	NP	NP	16	A-4a
140+18	38'RT	0.6-5.0	7	6	25	38	24	29	10	17	A-4a
		5.0-7.0	62	10	11	11	6	NP	NP	8	A-1-b
		7.0-8.0	59	1	10	22	8	NP	NP	12	A-2-4
140+45	5'RT	0.6-4.0	9	3	25	44	19	22	4	13	A-4a
		4.0-5.0	30	5	19	28	18	NP	NP	14	A-4a
141+55	50'RT	0.6-3.0	0	3	9	58	30	29	10	21	A-4b
		3.0-6.0	4	2	23	51	20	23	6	15	A-4b
		6.0-8.0	24	6	25	29	16	24	8	13	A-4a

Station & Offset		Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	Pl.	% W.C.	SHTL Class.
0+12	CL	0.8-3.0	0	2	19	55	24	NP	NP	17	A-4b
		3.0-6.0	11	6	31	36	16	NP	NP	13	A-4a
		6.0-8.0	28	4	11	46	11	NP	NP	12	A-4a
0+40	55'LT	0.6-6.0	10	3	21	43	23	23	6	15	A-4a
		6.0-7.0	VISUAL CLASSIFICATION								SANDSTONE
2+48	8'RT	0.6-3.0	52	8	10	21	9	NP	NP	12	A-2-4
2+50	35'RT	0.8-5.0	0	2	30	51	17	NP	NP	20	A-4b
		5.0-6.0	22	3	8	55	12	NP	NP	10	A-4b
2+70	5'LT	0.6-2.0	0	1	19	58	22	NP	NP	21	A-4b
		2.0-5.0	11	7	53	26	3	NP	NP	18	A-3a
		5.0-6.5	15	6	18	49	12	NP	NP	17	A-4a
4+08	5'LT	0.6-2.0	26	6	15	37	16	NP	NP	11	A-4a
		2.0-3.0	VISUAL CLASSIFICATION								WEATHERED SANDSTONE
4+60	5'LT	0.6-4.0	0	3	24	52	21	23	4	16	A-4b
		4.0-5.0	6	2	33	38	21	NP	NP	14	A-4a
5+60	5'RT	0.6-4.0	20	5	13	36	26	34	14	16	A-6a
		4.0-5.0	VISUAL CLASSIFICATION								SANDSTONE
8+60	15'RT	0.6-5.0	0	3	15	44	38	26	7	15	A-4a
		5.0-8.0	0	2	73	20	5	NP	NP	19	A-3a
		8.0-11.0	0	1	82	12	5	NP	NP	25	A-3a
10+50	18'LT	0.6-3.0	0	2	5	40	53	54	29	28	A-7-6
		3.0-6.0	0	0	0	21	79	64	33	27	A-7-5
		6.0-10.0	0	5	4	22	69	57	23	32	A-7-5

SOIL PROFILE
SCIOTO-PIKE COUNTIES
SCI-776-2.55
PIK-776-0.00
STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

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GENERAL NOTE:
Existing bituminous pavement in good condition.